

CITY OF BLOOMINGTON



PLAN COMMISSION

August 12, 2024 5:30 p.m.
Council Chambers, Room #115
Hybrid Zoom Link:

<https://bloomington.zoom.us/j/82362340978?pwd=ZnExeVNaSUNGVGdZQTJHNjBBb3M0UT09>

Meeting ID: 823 6234 0978 Passcode: 622209

**CITY OF BLOOMINGTON
PLAN COMMISSION (Hybrid Meeting)**

❖City Council Chambers, 401 N Morton Street Bloomington – Room #115
August 12, 2024 at 5:30 p.m.

❖Virtual Link:

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Meeting ID: 823 6234 0978 Passcode: 622209

Petition Map: <https://arcg.is/10yXnX1>

ROLL CALL

MINUTES TO BE APPROVED: July 15, 2024

REPORTS, RESOLUTIONS AND COMMUNICATIONS:

PETITIONS TABLED:

SP-24-22 Cutters Kirkwood 123 LLC

115 E Kirkwood Ave

Parcel: 53-05-33-310-062.000-005

Request: Major site plan approval to construct a 4-story building with 3 floors of residential units over a ground floor parking garage and retail space in the MD-CS zoning district. The upper floors will consist of 15 dwelling units for a total of 38 beds. Case Manager: Karina Pazos

ZO-34-23 City of Bloomington Planning and Transportation

Text Amendment

Request: Text amendment related to Sign Standards and request for waiver of second hearing. Case Manager: Jackie Scanlan

PETITIONS CONTINUED TO SEPTEMBER 9, 2024:

SP-28-24/USE2024-07-0057

Core Bloomington Lincoln, LLC

216 E 19th Street

Parcel: 53-05-28-300-102.000-005

Request: Site plan approval for a phasing plan to allow for the construction of two multifamily building in the Mixed-Use Student Housing (MS) zoning district. Case Manager: Eric Greulich

****Next Meeting September 9, 2024**

Last Updated: 8/9/2024

Auxiliary aids for people with disabilities are available upon request with adequate notice.

Please call [812-349-3429](tel:812-349-3429) or e-mail human.rights@bloomington.in.gov.

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PETITIONS:**DP-17-24/PLAT2024-04-0026****Eric Deckard**

3615 E Post Road

Parcel: 53-05-35-400-062.000-005

Request: Primary plat approval to allow a two-lot subdivision of 4.21 acres in the Residential Medium Lot (R2) zoning district, with request for subdivision waivers.

Case Manager: Gabriel Holbrow**DP-27-24/PLAT2024-07-0034****Bill Evans**

1030 W. Acuff Road

Parcel: 53-05-17-300-016.000-005

Request: Primary plat approval for a 122 lot subdivision of 48.83 acres in the Residential Medium Lot (R2) zoning district.

Case Manager: Eric Greulich**ZO-30-24****City of Bloomington**

Request: Zoning Amendments throughout Title 20, Unified Development Ordinance (UDO), related to the grading permit and new site development permit; UDO Chapter 4, Development Standards & Incentives: Amendments related to steep slopes.

Case Manager: Jackie Scanlan****Next Meeting September 9, 2024****Last Updated: 8/9/2024****Auxiliary aids for people with disabilities are available upon request with adequate notice.****Please call [812-349-3429](tel:812-349-3429) or e-mail human.rights@bloomington.in.gov.**

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BLOOMINGTON PLAN COMMISSION
STAFF REPORT – Second Hearing
Location: 3615 East Post Road

CASE #: DP-17-24
/ PLAT2024-04-0026
DATE: August 12, 2024

PETITIONER: Deckard Land Surveying
1604 South Henderson Street
Bloomington, IN

OWNER: John and Sherry Myers
3615 East Post Road
Bloomington, IN

REQUEST: The petitioner is requesting primary plat approval to allow a two-lot subdivision of 4.21 acres in the Residential Medium Lot (R2) zoning district, with request for subdivision waivers.

BACKGROUND:

Area: 4.21 acres
Current Zoning: Residential Medium Lot (R2)
Comprehensive Plan Designation: Neighborhood Residential
Existing Land Use: Single-family dwelling
Proposed Land Use: Single-family dwelling and Vacant
Surrounding Uses: North – Single-family dwellings
South – Single-family dwellings
East – Single-family dwellings
West – Single-family dwellings

UPDATE SINCE FIRST HEARING:

At the first hearing on July 15, there was discussion regarding topics including the unusual history of subdivision and parcel delineation in this area, the layout of proposed or existing street trees, the status of review by the City of Bloomington Utilities Department (CBU) of easements and drainage, as well as the need for sidewalks in this area and the appropriateness of a waiver from the requirement to construct new sidewalks with this subdivision.

At the time of the July 15 hearing, the petitioner had not yet had an opportunity to formally request two of the subdivision waivers because the need for these waivers was not identified until after the final revision deadline for the July hearing. At the first hearing, the petitioner provided a revised petitioner's statement which formally requests all six necessary waivers. The revised petitioner's statement is included in this packet.

Regarding the street trees, the petition has submitted a revised plat which shows planting location of new street trees. The planting plan, as shown, complies with the requirements of the City of Bloomington Unified Development Ordinance (UDO), but staff recommends more clarification at the secondary plat stage to ensure that what actually is planted will also comply with the UDO. A condition has been added.

Regarding CBU review of easements and drainage, on July 30 the petitioner submitted revised drainage calculations to CBU, following the guidance of CBU as provided in a review response from CBU reviewers to the petitioner on July 10 and in accordance with UDO Section 20.05.050(h)(2). The petitioner also submitted a revised plat, including revisions to the descriptions and definitions of utility easements and drainage easements, on July 19 to both CBU and planning staff. (The most recent version of the plat, included in this packet, is dated August 1, but the easement definitions are the same as the July 19 version.) As of the date of this report, CBU has not yet approved the drainage calculations or drainage plan or easements, nor have they provided a review response to the petitioner. A condition has been added to require CBU approval of a drainage plan prior to secondary plat approval.

Regarding the sidewalk waiver, staff recommends denial of the waiver. In considering this waiver, the Commission must weigh the benefit of the sidewalks against the inconvenience and inefficiency of constructing the sidewalks as disconnected segments at this time, among other considerations. As detailed in the proposed finding for this waiver below, staff's recommendation is the benefit outweighs the inconvenience and inefficiency at this time. At the first hearing in July, however, at least some of the Commission members expressed interest in possibly approving this subdivision waiver. If the Commission were to approve the sidewalk waiver as requested, Commission members would need to adopt an alternate finding for this waiver, and in that event staff would also recommend an additional condition similar to the usual condition for a determinate sidewalk variance. The additional condition would require a zoning commitment to clarify that installation of the sidewalk, although not required with this subdivision, may be required in the future. If added, such a condition could state:

- The Planning and Transportation Department shall prepare a zoning commitment indicating that the Plan Commission approved a waiver from the subdivision requirement to install sidewalks at this time, and that future installation of the sidewalk may be required. The zoning commitment shall apply to the current owner and all future owners of lots 1 and 2. Prior to approval of the secondary plat, the property owner shall record the zoning commitment in the Office of the Monroe County Recorder and submit a copy of the recorded document to the Planning and Transportation Department.

Proposed findings for primary plat review and all subdivision waivers have been added in the sections below.

REPORT:

The following information is unchanged since the July report.

The property is located off Post Road and Hollywood Drive in the Grandview Hills neighborhood, extending to the north from Post Road, west of properties on Meadowlark Lane, toward but not reaching 10th Street (State Route 45). The property and all surrounding properties are located in the Residential Medium Lot (R2) zoning district. Surrounding properties contain detached single-family dwellings, with a small number of vacant undeveloped lots.

The property is bisected roughly from northwest to southeast by an unconstructed portion of the Hollywood Drive corridor that was shown on an unrecorded plat for Grandview Hills 3rd Addition in 1967. The plat was never recorded, and this portion of Hollywood Drive was never dedicated nor constructed nor accepted as public right-of-way. Because of this history, some maps, including Monroe County Elevate, show a continuation of Hollywood Drive across the property, but those

maps are not correct, as confirmed by a letter from the Monroe County Auditor included in the packet. That portion of land remains privately owned and a part of this petition site.

The petitioner proposes to subdivide the property into two lots by separating the land around the existing house at 3615 East Post Road (proposed lot 2) from the remaining land (proposed lot 1). Lot 1 is proposed to contain 3.55 acres with frontage on Post Road and at the stub end of the right-of-way of Hollywood Drive. After subdivision, lot 1 would be vacant land, but could be developed with one detached single-family dwelling or any of the other land uses allowed in the R2 district. In the future, there is the possibility that lot 1 could be further subdivided, but that would require construction and dedication of a public street to provide access to further lots, and the petitioner is not proposing any such further subdivision at this time.

The existing property contains three lot frontages. In front of the existing house at 3615 East Post Road, the property has a 149.90-foot frontage on Post Road. This is proposed to become the front lot line of lot 2. A second frontage on Post Road is located where the unconstructed Hollywood Drive corridor forms a “leg” of the property extending southeast to Post Road. This is proposed to become a front lot line of lot 1. The third frontage is located to the northwest, where the existing public right-of-way of Hollywood Drive has a stub end on the property. This is proposed to become a second front lot line of lot 1.

The lot width at the Post Road frontage of the “leg” to the southeast, as measured per the definition of lot width in the Unified Development Ordinance (UDO), is 56.73 feet, which is less than the 60-foot minimum lot width standard in the R2 zoning district. However, the property was granted variance V-12-24 / VAR2024-04-0029 by the Hearing Officer on May 8, 2024 to allow the 56.73-foot lot width on this Post Road frontage. With the variance, the lot width of lot 1’s frontage on Post Road is considered compliant.

The proposed subdivision will require six subdivision waivers. The first request is a waiver from the requirement to provide pedestrian facilities per the Transportation Plan. The Transportation Plan calls for a minimum six-foot-wide sidewalk along Post Road at both the Post Road frontages. No sidewalk or other pedestrian improvements are required across the stub end of Hollywood Drive. The petitioner proposes to leave the two Post Road frontages in their current state, without sidewalks. There are no other existing sidewalks on Post Road, Hollywood Drive, or any of the other streets in the surrounding neighborhood.

The second subdivision waiver request is a waiver from the maximum parent tract size standard. The proposed subdivision is most properly classified as an infill subdivision type because it contains a small number of lots and no new public street or rights-of-way within an existing developed neighborhood. However, the maximum parent tract size for an infill subdivision is three acres. The property contains 4.21 acres, which is more than the maximum.

The third subdivision waiver request is to allow side lot lines that are greater than 15 degrees from a right angle to the street. Side lot lines of the existing property at the Post Road frontage of the “leg” to the southeast and at the stub end of Hollywood Drive to the northwest, which will become side lot lines of lot 1, do not meet this standard. Both side lot lines at the “leg” to Post Road are approximately 30 degrees from a right angle to the street, which is more than the maximum of 15 degrees. Additionally, the side lot line immediately south of lot 1’s frontage across the stub end of Hollywood Drive, labelled as L1 on the primary plat, is parallel to the street direction. That is, this side lot line is approximately 90 degrees from a right angle to the street, which is more than the

maximum 15 degrees. The angles of these side lot lines are existing features of the property, which would not be possible to alter without acquiring additional land from the abutting developed properties.

The fourth subdivision waiver request is to allow lot 1 to have two frontages, one on Post Road to the southeast and a second on the stub end of Hollywood Drive to the northwest. This means that lot 1 meets the definition of a through lot, which the UDO does not allow except on arterial frontages. Post Road is not an arterial road. Therefore lot 1 is not compliant with this standard and cannot be allowed unless granted a subdivision waiver.

The fifth subdivision waiver is to allow the tree preservation easement for the existing closed-canopy wooded area to be on lot 1, instead of in common area. The UDO requires preserved wooded areas of at least one half acre to be placed in a tree preservation easement, and additionally requires preserved wooded areas of at least one acre within a subdivision to be placed in common areas on the plat. The proposed plat preserves existing closed-canopy wooded areas in a 1.32-acre tree preservation easement, but does not create a common lot for this area. Instead, the easement is contained within proposed lot 1.

The sixth subdivision waiver is to allow lot 1 to have a depth-to-width ratio exceeding four-to-one. The Post Road frontage of lot 1 is 56.73 feet, while the lot depth from the southernmost lot line to the northernmost lot line is approximately 764 feet, for a depth-to-width ratio of more than 13-to-one.

20.06.060(b)(3)(E) PRIMARY PLAT REVIEW: The Plan Commission or Plat Committee shall review the primary subdivision petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(g) (Review and Decision), based on the general approval criteria in Section 20.06.040(d)(6) (Approval Criteria) and the following standards:

- i. All subdivision proposals shall be consistent with the need to minimize flood damage.
- ii. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage.
- iii. All subdivision proposals shall have adequate drainage provided to reduce exposure to flood hazards
- iv. Base flood elevation data shall be provided for subdivision proposals and other proposed development (including manufactured home parks and subdivisions), which is greater than the lesser of 50 lots or five acres.
- v. All subdivision proposals shall minimize development in the SFHA and/or limit intensity of development permitted in the SFHA
- vi. All subdivision proposals shall ensure safe access into/out of SFHA for pedestrians and vehicles (especially emergency responders).

PROPOSED FINDING: The entire site is located in an area of minimal flood risk with less than a 0.2 percent annual chance of flooding, as shown on FEMA flood maps. Public utilities, including water, sanitary sewer, and stormwater drainage utilities, are subject to approval by City of Bloomington Utilities Department (CBU) and can be constructed to minimize flood damage. No portion of this property is located in a Special Flood Hazard Area (SFHA).

20.06.040(d)(6)(B) General Compliance Criteria

- i. Compliance with this UDO
- ii. Compliance with Other Applicable Regulations
- iii. Compliance with Utility, Service, and Improvement Standards
- iv. Compliance with Prior Approvals

PROPOSED FINDING: This plat, with subdivision waivers and adopted conditions, complies with the requirements of the UDO. The requested subdivision waiver from the requirement to construct sidewalks is not appropriate, as detailed in the findings for this waiver. Final approval of designs for all improvements in the public right-of-way is required from the City of Bloomington Engineering Department prior to acceptance of the performance bond and prior to plat recording. The other five subdivision waivers, from standards for maximum parent tract size, side lot line angles, through lot, common area, and lot depth-to-width ratio are appropriate, as detailed in findings for each waiver. An adopted condition requires final approval from the City of Bloomington Utilities Department, including final approval of a drainage plan, prior to secondary plat approval. The plat is compliant with variance approval V-12-24 / VAR2024-04-0029.

20.06.040(d)(6)(D) Additional Criteria Applicable to Primary Plats and Zoning Map Amendments (Including PUDs)

- i. Consistency with Comprehensive Plan and Other Applicable Plans
 - The proposed use and development shall be consistent with and shall not interfere with the achievement of the goals and objectives of the Comprehensive Plan and any other adopted plans and policies.
- ii. Consistent with Intergovernmental Agreements
 - The proposed use and development shall be consistent with any adopted intergovernmental agreements and shall comply with the terms and conditions of any intergovernmental agreements incorporated by reference into this UDO.
- iii. Minimization or Mitigation of Adverse Impacts
 - 1. The proposed use and development shall be designed to minimize negative environmental impacts and shall not cause significant adverse impacts on the natural environment. Examples of the natural environment include water, air, noise, stormwater management, wildlife habitat, soils, and native vegetation.
 - 2. The proposed use and development shall not result in the excessive destruction, loss or damage of any natural, scenic, or historic feature of significant importance.
 - 3. The proposed use and development shall not result in significant adverse fiscal impacts on the city.
 - 4. The petitioner shall make a good-faith effort to address concerns of the adjoining property owners in the immediate neighborhood as defined in the pre-submittal neighborhood meeting for the specific proposal, if such a meeting is required.
- iv. Adequacy of Road Systems
 - 1. Adequate road capacity must exist to serve the uses permitted under the proposed development, and the proposed use and development shall be designed to ensure safe ingress and egress onto the site and safe road conditions around the site, including adequate access onto the site for fire, public safety, and EMS services.
 - 2. The proposed use and development shall neither cause undue traffic congestion nor draw significant amounts of traffic through residential streets.
- v. Provides Adequate Public Services and Facilities

Adequate public service and facility capacity shall exist to accommodate uses permitted under the proposed development at the time the needs or demands arise, while maintaining adequate levels of service to existing development. Public services and facilities include, but are not limited to, streets, potable water, sewer, stormwater management structures, schools, public safety, fire protection, libraries, and vehicle/pedestrian connections and access within the site and to adjacent properties.

vi. Rational Phasing Plan

If the petition involves phases, each phase of the proposed development shall contain all of the required streets, utilities, landscaping, open space, and other improvements that are required to comply with the project's cumulative development to date and shall not depend upon subsequent phases for those improvements.

PROPOSED FINDING: The proposed plat is consistent with the Comprehensive Plan, setting the stage for small-scaled infill development that does not dominate or detract from the existing neighborhood context. There are no identified adverse impacts with this petition. The proposed plat establishes easements to protect existing closed-canopy wooded areas and areas of excessive slope. A neighborhood meeting is not required with primary plat approval. Public facilities for road systems, potable water, and sewer are adequate to accommodate uses permitted in the Residential Medium Lot (R2) zoning district. Public facilities for stormwater management shall be as required by the City of Bloomington Utilities Department. Public facilities for pedestrian connections in the form of sidewalks along Post Road shall be required and guaranteed by an accepted performance bond prior to plat recording. No phasing of the plat is expected.

20.06.060(b)(3)(F) Waivers

Waivers from any standards within Chapter 5 shall be reviewed according to the following criteria:

- i. The granting of the subdivision waiver shall not be detrimental to the public safety, health, or general welfare, or injurious to other property; and
- ii. The conditions upon which the request for a Subdivision Waiver are based are unique to the property; and
- iii. The Subdivision Waiver shall not in any manner vary the provisions of the development standards, Comprehensive Plan, or Transportation Plan, except that waivers related to sidewalks and tree plots in the Transportation Plan may be requested.

Sidewalk

PROPOSED FINDING: Circumstances unique to the property include that there are no other existing sidewalks on Post Road, Hollywood Drive, or any of the other streets in the surrounding neighborhood. There is no reasonable expectation of additional sidewalk connections on adjacent streets in the near future. However, granting the waiver would be detrimental to public safety, health, and general welfare by perpetuating the lack of a pedestrian network and further reducing the likelihood of achieving a connected pedestrian network in the future. Although the required segments of sidewalk are not expected to connect to other sidewalk segments in the near future, even as disconnected sidewalks they will provide a safety refuge in several situations, such as pedestrians exiting a vehicle legally parked on Post Road.

Parent Tract Size Maximum

PROPOSED FINDING: The parent tract of the proposed subdivision is 4.21 acres, which is greater than the maximum of 3 acres established for subdivisions of the infill subdivision type. The proposed subdivision is most properly classified as an infill subdivision type because it contains a small number of lots and no new public streets or rights-of-way within an existing developed neighborhood. Granting the waiver will not be detrimental or injurious and is unique to the circumstances of the parent tract. At this time, granting the waiver will allow land around the existing house on Post Road to be separated from the rest of the land without construction or dedication of new public streets. If a future subdivision of the remaining land (lot 1) created a need to provide a new public street in the future, construction and dedication would be required at that time. The 1.32 acres of tree preservation easement which the proposed plat sets aside in order to comply with tree and forest preservation standards is larger than the minimum open space that would be required for the traditional subdivision type.

Side Lot Line Angles

PROPOSED FINDING: The side lot lines that exceed the maximum 15 degrees from perpendicular to the street are existing features of the property, which would not be possible to alter without acquiring additional land from the abutting developed properties. The existing side lot lines have not been detrimental or injurious in the past and are not expected to be in the future.

Through Lot

PROPOSED FINDING: The circumstances of the subdivision waiver are unique to the layout of the parent tract. Although proposed lot 1 meets the definition of a through lot because it has two frontages on opposite lot lines, it does not share other characteristics of a through lot. Only the Post Road frontage provides direct vehicle access to an improved public street. Within the existing public right-of-way of Hollywood Drive, the constructed street ends approximately 130 feet from the end of the right-of-way at the frontage of proposed lot 1. The stub end of the Hollywood Drive right-of-way is not constructed as a street at this time, and it is unlikely to be constructed unless the entire Hollywood Drive corridor through to Post Road is constructed as a street, such as through a further subdivision in the future. Granting the waiver will not be detrimental or injurious.

No Common Area

PROPOSED FINDING: The circumstances of the subdivision waiver are unique to the existing situation in the parent tract and the intent for the subdivision. The petition's intent for this two-lot subdivision includes the goal of separating the existing house (as lot 2) from the future developable land (lot 1) in the parent tract. All of the closed-canopy wooded area to be preserved is located on lot 1, at the opposite end of the parent tract from lot 2 and the existing house. Requiring future owners of lot 2 to maintain ownership and responsibility for the wooded area on Lot 1 and farther away is contrary to the intent for the subdivision. The intent of the UDO requirement to place larger preserved wooded areas in common area includes the goal of keeping the contiguous wooded area within one lot, instead of dividing it among the backyards of multiple lots in a subdivision, as well as the goal of ensuring that the preserved wooded area is not treated as

developable land in the future. The proposed plat addresses the first goal by keeping the wooded area within one lot (lot 1), and addresses the second goal by establishing a tree preservation easement for the wooded area. A further subdivision of lot 1 in the future, if this were to happen, would be an appropriate opportunity to place the wooded area in a common area. The unique circumstances at this time mean that granting the waiver will not be detrimental or injurious. Granting of the waiver does not preclude putting that land in a common area if a future subdivision was sought.

Lot Depth-to-Width Ratio

PROPOSED FINDING: The “flag lot” shape of the lot, with a “leg” extending southeast to Post Road, is an existing feature of the property. The existing property has shown the limitations on access and future development that are the inherent draw-backs of a “flag lot” or other deep lot. Although the proposed plat does not resolve these limitations, it sets aside lot 2 as a new lot with a compliant depth-to-width ratio and sets the stage for thoughtful future development of lot 1.

PLAT REVIEW: The proposed subdivision follows the Infill Subdivision (IS) design standards.

Infill Subdivision Standards:

Parent tract size: No minimum parent tract size. Maximum parent tract size is 3 acres. The parent tract is 4.21 acres. The petitioner is requesting a waiver to allow the parent tract size to exceed the maximum. A larger parent tract size would be allowed for a subdivision of traditional subdivision type, but the proposed subdivision is most property classified as an infill subdivision type because it contains a small number of lots and no new public streets or rights-of-way within an existing developed neighborhood. The larger tract size for an infill subdivision in this case is appropriate because of the configuration of the parent tract and its existing frontages as well as the small number of lots (two) contained in this proposal.

Open space: Not required. The plat sets aside 1.32 acres within a tree preservation easement as well as an overlapping area of steep slopes within a conservancy easement as required by environmental standards and open space standards in the UDO. The petition will require a subdivision waiver to allow the tree preservation easement to be on lot 1, instead of in common area.

Lots served by alleys: Not required. The proposal does not include any lots served by alleys.

Block length: Not required. No new blocks are created by the proposal.

Cul-de-sac length: Not permitted. No new culs-de-sac are proposed.

Transportation facilities: Required to meet Transportation Plan guidance. The Transportation Plan calls for a 60-foot-wide right-of-way for Post Road. The proposed plat dedicates additional new public right-of-way width along both Post Road frontages to bring north side of Post Road up to the proposed width. No new right-of-way width dedication is required on stub end of Hollywood Drive.

On-street parking: Not required, but where provided shall comply with City standards. On-street parking is not prohibited on Post Road or Hollywood Drive adjacent to the proposed subdivision. No site improvements for on-street parking are proposed or required.

Tree plot width: Required per Transportation Plan. The Transportation Plan calls for a minimum five-foot-wide tree plot along Post Road. No tree plot is required across the stub end of Hollywood Drive.

Sidewalk/multiuse path width: Required per Transportation Plan. The Transportation Plan calls for a minimum six-foot-wide sidewalk along Post Road. The petitioner is requesting a waiver so that the Post Road frontages can remain in their current state without sidewalks. No sidewalk or other pedestrian improvements are required across the stub end of Hollywood Drive.

Easement Standards:

Utility Easements: The proposed plat references four exiting easements for electric pole lines. The plat also creates five new utility and drainage easements. First, the plat establishes a utility easement which crosses the site east-west roughly in line with the proposed boundary lot line between lots 1 and 2. This utility easement, which varies in width from 8 feet to 10 feet to 16 feet, is shown on a 2003 survey referenced in the plat, but appears to be formally established for the first time with this proposed plat. Second, a 20-foot-wide utility easement is established centered on an existing CBU-owned stormwater line that runs the length of the unconstructed Hollywood Drive corridor across the property. The north end of this utility easement connects to, third, a 25-foot-wide drainage easement, established by the plat to contain the water way in the existing natural ravine that takes the outflow from the CBU stormwater line and a parallel private stormwater line. The drainage easement overlaps with and is completely contained within a conservancy easement and tree protection easement. Fourth, a 15-foot-wide utility easement is established along the west side of lot 2 to provide utility access for lot 1. Finally fifth, a 15-foot-wide waterline easement is established along all of the lot line segments on the east side of lot 1, from Post Road to the northeast corner of the property, for an existing CBU-owned 6-inch water line which serves all of the existing houses on the west side of Meadow Lark Lane.

Access Easements: The proposed plat references an existing non-exclusive access easement for the Hollywood Drive corridor across the property. The plat also creates an ingress and egress easement at the southeastern end of the “leg” on Post Road, allowing the two abutting properties on either side to across the easement area. The ingress/egress easement legitimizes the access for the existing driveways for these two properties, which connect to Post Road through this area of the property.

Environmental Easements: The proposed plat establishes a 1.32-acre tree preservation easement for existing wooded areas at the northern end of the property as well as a conservancy easement, contained completely with the tree preservation easement, for areas of excessive slope along the natural ravine in the northwest corner of the property.

Lot Establishment Standards:

Lot area and lot width: In the R2 zoning district, the minimum lot size 7,200 square feet and the minimum lot width is 60 feet. Proposed lot 1 is 3.55 acres (approximately 154,600 square feet) in area with 56.73 feet of lot width on Post Road and more than 60 feet of lot frontage on the stub end of Hollywood Drive. (Per the UDO definition of lot width, lot width is measured not on the front lot line but instead at the minimum front setback distance. Although the undedicated and unimproved corridor of Hollywood Drive is 50 feet wide, the lot width of lot 1's frontage on the stub end of Hollywood Drive measures far more than 60 feet because the property widens out behind (south of) the front lot line.) Proposed lot 2 is approximately 0.63 acres (approximately 27,400 square feet) in area with 149.90 feet of lot width on Post Road. Although the Post Road frontage of lot 1 is less than 60 feet, this is allowed by variance V-12-24 / VAR2024-04-0029 granted by the Hearing Officer on May 8, 2024. With the variance, the proposed lots comply with standards for lot area and lot width.

Side lot line angles: Residential lots are required to have side lot lines that are within 15 degrees of a right angle to the street and right-of-way. Side lot lines of the existing property at the Post Road frontage of the "leg" to the southeast and at the stub end of Hollywood Drive to the northwest, which will become side lot lines of lot 1, do not comply with this standard. Both side lot lines at the "leg" to Post Road are approximately 30 degrees from perpendicular to the street. Additionally, the side lot line immediately south of lot 1's frontage across the stub end of Hollywood Drive, labelled as L1 on the primary plat, is parallel to the street direction. The angles of these side lot lines are existing features of the property, which would not be possible to alter without acquiring without acquiring additional land from the abutting developed properties. The petitioner is requesting a subdivision waiver to allow these side lot lines to remain. Both side lot lines of proposed lot 2 are compliant with this standard.

Through lot: Through lots are not allowed except on arterial frontages. Proposed lot 1 meets the definition of a through lot because it has two frontages, one on Post Road to the southeast and a second on the stub end of Hollywood Drive to the northwest. Post Road is not an arterial road. The petitioner is requesting a subdivision waiver to allow lot 1 to be a through lot.

Lot shape: All lots shall be designed with a depth-to-width ratio not to exceed four to one. For lot 1, the Post Road frontage is 56.73 feet, while the lot depth from the southernmost lot line to the northernmost lot line is approximately 764 feet, for a depth-to-width ratio of more than 13-to-one. The petitioner is requesting a waiver to allow the depth-to-width ratio of lot 1 to exceed four-to-one. For lot 2, the frontage is 149.90 feet, while the lot depth is 181.72 feet, for a depth to width of approximately 1.2.

Lot access: All new residential lots shall have frontage on a public street right-of-way. Both proposed lots have frontage on Post Road. The proposed plat establishes a 20-foot-wide utility easement centered on an existing CBU-owned stormwater line that runs the length of the unconstructed Hollywood Drive corridor, including the "leg" of the property. The plat also establishes a 15-foot-wide waterline easement for an existing CBU-owned water line running along the east side of the "leg" of the property. These easements prohibit the placement of any obstruction within the easement area unless authorized by CBU, and

would give CBU or any other utility the right to remove and not replace driveway paving or any other improvement within the easement area if necessary to access the utility infrastructure. These easements significantly limit, but would not prohibit, the construction or use of an access driveway from Post Road to the remainder of the property.

Stormwater Standards: All proposed subdivisions shall provide for the collection and management of all surface water drainage, and all subdivision requests shall include the submittal of a drainage plan to CBU. The petitioner submitted a revised drainage report to CBU on July 30, 2024, including a proposed plan for no new stormwater infrastructure beyond what already exists on the site. As of the date of this report, CBU has not yet provided comments on the revised drainage report and has not approved the proposed drainage plan.

Right-of-Way Standards:

ROW width: No new public streets or rights-of-way are proposed. Existing streets are required to meet guidance in the Transportation Plan. Post Road is designated as the Neighborhood Residential street typology in the Transportation Plan, requiring a 60-foot-wide right-of-way (30 feet from centerline). The proposed plat dedicates additional new public right-of-way width along both Post Road frontages to bring north side of Post Road up to the proposed width. No new right-of-way dedication is required on the stub end of Hollywood Drive.

Pedestrian facilities and tree plot: Public improvements in the public right-of-way, including newly dedicated right-of-way, are required to comply with the standards in the Transportation Plan. Post Road is designated as the Neighborhood Residential street typology in the Transportation Plan. The design parameters in table 5 of the Transportation Plan call for a six-foot-wide sidewalk and a five-foot-wide greenscape (tree plot) between the sidewalk and the curb (or edge of pavement) on Neighborhood Residential Streets. The petitioner is requesting a subdivision waiver to allow the two Post Road frontages to remain in their current state without sidewalks. Even without sidewalks, there would remain at least five feet of width for a tree plot within the public right-of-way along these frontages.

Street Trees: The minimum number of required street trees to be planted shall be one large canopy tree for every 30 feet of property that abuts a public right-of-way. Two large street trees are required along the Post Road frontage of lot 1, and five large street trees or ten medium or small street trees are required along the Post Road frontage of lot 2. There are existing public utility lines, one water main and one gas main, running in the public right-of-way roughly parallel to the street along the Post Road frontages of lots 1 and 2. The UDO requires at least ten feet of separation between large canopy trees and public utility lines. The UDO allows medium and small trees to be planted as close as five feet from public utility lines, or closer if approved by the Planning and Transportation Director. The proposed plat shows two large street trees (labeled as “oak”) along the Post Road frontage of lot 1, and ten small street trees (labelled as “redbud”) along the Post Road frontage of lot 2. The number of trees complies with UDO requirements, but the proposed plat does not show the distance from the planting locations to the existing water and gas lines

in order to verify compliance with UDO requirements for the planting location and utility-separation. At the first public hearing, the property owner stated that there are existing trees within proposed additional right-of-way width dedication which may be able to count toward street tree requirements. No existing street trees are shown on the proposed plat. A condition has been added to provide distance information with the secondary plat to verify compliance with UDO requirements for street tree planting location and utility-separation.

Street Lighting: No street lighting is proposed.

Environmental Considerations:

Steep Slopes: The site contains steep slopes of 25 percent and greater along a natural ravine in the northwest corner of the property as well as slopes between 12 percent and 25 percent elsewhere on proposed lot 1. Indiana Public Law 52 of 2024, known as HB 1108 before enactment, which came into effect on July 1, 2024, prohibits jurisdictions from preventing development exclusively on the basis of slope if slope is less than 25 percent. In accordance with this state law and the excess slope provisions of the UDO, the proposed plat places all areas with 25 percent or greater slope, and only areas with 25 percent or greater slope, in a conservation easement. The conservation easement overlaps with the tree and forest preservation easement and also serves as an easement for the riparian feature.

Tree and forest preservation: The site contains approximately 1.64 acres of existing closed canopy wooded area, constituting 39 percent of the total area of the property. For a baseline canopy cover of 20 to 39 percent, at least 80 percent of the existing canopy cover must be preserved. At least 1.31 acres of wooded area must be preserved within a tree preservation easement. The proposed plat establishes a 1.32-acre tree preservation easement for existing wooded areas at the northern end of the property. The tree preservation easement overlaps with the conservancy easement established for excessive slopes.

Riparian Buffers: The site contains an existing waterway within a natural ravine in the northwest corner of the property, running south to north. This waterway takes surface flow from both the CBU-owned stormwater line running along the unconstructed portion of the Hollywood Drive corridor and a parallel private stormwater line, as well as ground water flow from surrounding land to the south. It appears that this waterway may not be subject to riparian buffer standards in the UDO because it does not have sufficient ground water flow to meet the UDO definition of an intermittent stream or perennial stream. However, even if riparian buffer standards did apply to this stream, the entire potential buffer area is contained within the conservancy easement and tree and forest preservation easements established by the proposed plat.

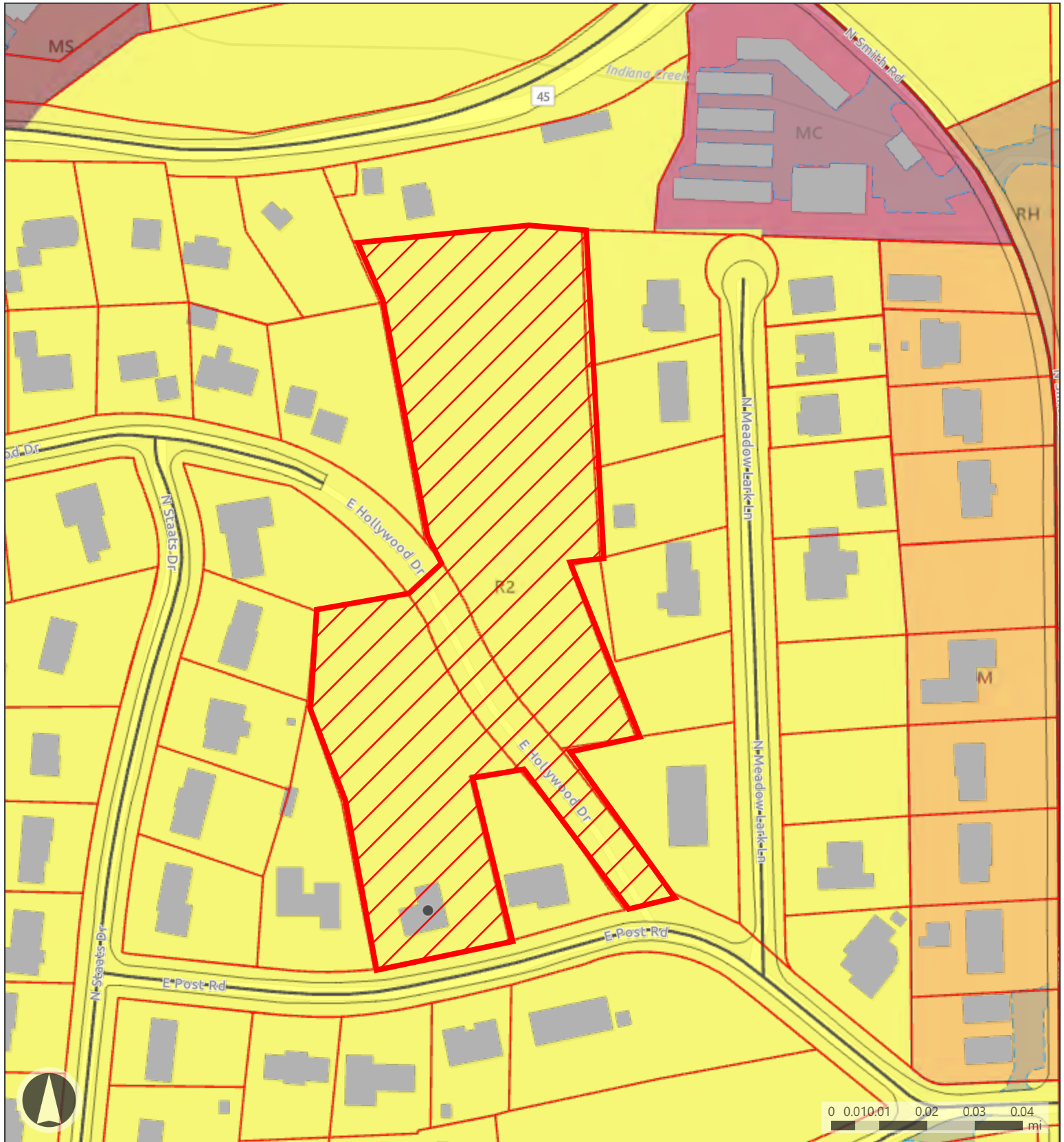
Others: There are no known karst features or wetlands on the site.

Utilities: Lot 2 has existing water and sanitary sewer service from mains running under Post Road. Lot 1 will have access to the existing public 6-inch water main that runs along the east side of the property. In addition, the proposed plat establishes a new utility easement along the west side of lot 2, providing access for lot 1 to the water and sanitary sewer mains running under Post Road. After secondary plat approval and recording, CBU approval will be required before any permits for development on lot 1 are issued.

CONCLUSION: The proposed primary plat, with subdivision waivers and adopted conditions, complies with the requirements of the UDO. Although the two-lot subdivision will result in a small change, it sets the stage for a future thoughtful use of this large property within a developed neighborhood.

RECOMMENDATION: The Planning and Transportation Department recommends that the Plan Commission adopt the proposed findings, deny the sidewalk waiver, and approve the primary plat of DP-17-24 /PLAT2024-04-0026 with all other associated waivers and with the following conditions:

1. With a petition for secondary plat approval, the petitioner shall submit designs for all required improvements in the public right-of-way, including sidewalks, as well as a performance bond estimate to the City of Bloomington Engineering Department for review and approval.
2. With a petition for secondary plat approval, the petitioner shall provide a street tree planting plan, either on the proposed secondary plat or with public improvement design plans or on a separate plan sheet, that includes measurements of the proposed distance between any public utility lines in the public right-of-way and street tree planting locations in order to ensure compliance with UDO requirements for utility/tree separation.
3. Final approval by the City of Bloomington Utilities Department of utility and drainage easements shown on the plat and of a drainage plan for the subdivision is required prior to secondary plat approval.



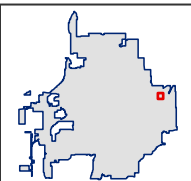
Map Legend

- Parcels
- Buildings
- Pavement

Parking Lot Type

- Paved Parking Lot
- Current

- Mixed-Use Corridor
- Mixed-Use Student Housing
- Residential Medium Lot





Map Legend

- Parcels
- Contributing
- Notable

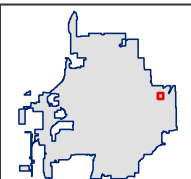
Rating

- Contributing
- Pavement

Parking Lot Type

- Paved Parking Lot
- Current

- Zoning District Boundary





Eric L. Deckard, LS

1604 S. Henderson St.
Bloomington, IN 47401
Ph. 812.961-0235
Fax 812.323-7536

July 15th, 2024

To: Members of the Plan Commission:

RE: Myers Minor Subdivision

I have been asked by Sherry Myers to request several waivers for the project located at 3615 E. Post Road.

The waiver requests and statements are discussed below.

1). Request: Sidewalk Waiver

Petitioner's Statement: The property is located at 3615 E. Post Road, Bloomington, IN 47408. No sidewalks exist in the area and the construction of future sidewalks in the area is improbable. This requirement would create a stretch of sidewalk that is +/- 150.00 long with a gap of +/- 130.00 feet along the adjoining property (Harris) and another stretch of sidewalk that is +/- 58.00 feet long with no extension to other walkways in the area. We respectfully request consideration by the Plan Commission to grant a Sidewalk Waiver for Lot 1 and Lot 2 along E. Post Road.

2). Request: Maximum Parent Tract Size Waiver

Petitioner's Statement: The subdivision that is being proposed is an Infill Subdivision. The maximum parent tract size for this subdivision is 3.0 acres. The parent parcel in the proposed Myers Minor Subdivision is 3.55 acres after right-of-way dedication. Other than the parent tract size exceeding the maximum requirement by 0.55 acres, the property in question best fits the classification of "Infill Subdivision" per UDO section 20.05.030(a). We respectfully request consideration by the Plan Commission to grant a Maximum Parent Tract Size Waiver for Lot 1 (parent tract).

3). Request: Side Lot Line Angle Waiver

Petitioner's Statement: The subject property (Lot 1) has lot lines that extend to both Hollywood Drive and Post Road. The lot lines that border these above-mentioned roads do not meet the standard of side line lots that are within 15 degrees of a right angle to the street and right-of-way (UDO section 20.05.050(e)(1)(B)). The side lot lines in question are pre-existing and were not

created in this plat. Due to pre-existing configuration of the subject property, we respectfully request consideration by the Plan Commission to grant a Side Lot Line Angle Waiver for Lot 1.

4). Request: Through Lot Waiver

Petitioner's Statement: The subject property (Lot 1) has frontage on public right-of-way at Post Road and Hollywood Drive, thus creating a "Through Lot". The configuration of the subject property would have to drastically change to not create said "Through Lot". These drastic changes would create lots that are not the intentions of the property owner. We respectfully request consideration by the Plan Commission to grant a Through Lot Waiver for Lot 1.

5). Request: Common Area Lot Waiver

Petitioner's Statement: The subject property (Lot 1) has a contiguous area of tree cover totaling one (1) acre or greater. Per UDO section 20.05.050(g)(2)(E), this tree cover is to be preserved as a common lot. This area is already in a Tree Preservation Area and will be preserved. We respectfully request consideration by the Plan Commission to grant a Common Area Lot Waiver for Lot 1.

6). Request: Depth-to-Width Subdivision Waiver

Petitioner's Statement: The subject property (Lot 1) does not currently meet the depth-to-width ratio of four to one as described in UDO section 20.05.050(e)(3)(B). The configuration of the subject property would have to drastically change to meet this ratio. These drastic changes would create lots that are not the intentions of the property owner. We respectfully request consideration by the Plan Commission to grant a Depth-to-Width Subdivision Waiver for Lot 1.

If there are any questions, please contact this office at (812) 961-0235

Sincerely,

Eric L. Deckard L.S.



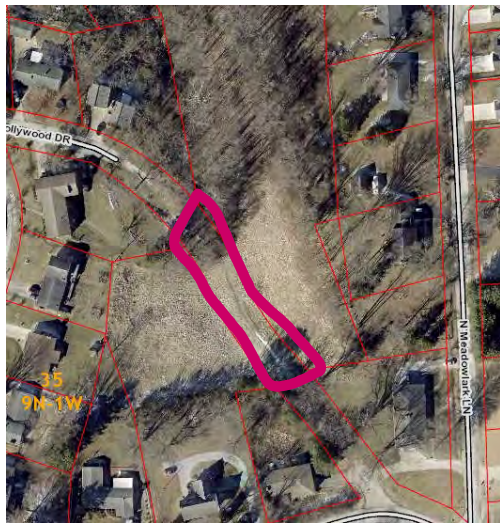


Brianne Gregory
Monroe County Auditor

100 W Kirkwood Ave
Courthouse, Room 209
Bloomington, IN 47404
Office (812) 349-2510
March 5, 2024

To whom it may concern,

On Elevate for Monroe County, there are parcel lines drawn for what appears to be at one time planned roadway for Hollywood Dr through the parcel located at 3615 E Post Rd connecting E Hollywood Dr to E Post Rd and these lines currently reflect as “roadway” within the subdivision roadways of the area.



These lines for this specific area are based on documents presented to the Auditor’s Office from a 1967 unrecorded plat (attached) for Grandview Hills 3rd Addition. Since this unrecorded plat, we find any further additions, amendments or subdivisions addressing the roadway aside from the survey included in the 2012 and 2015 deeds for 3615 E Post Rd in which it reflects as a 50 ft nonexclusive easement and a 2023 deed in which the previous owner quit claimed any interest in unimproved roadway for Hollywood Dr. To the best of my knowledge, aside from the previously mentioned documentation-there is no dedicated, deeded, or platted roadway and the GIS for this area is reflecting what was intended per the 1967 unrecorded plat.

If you have any questions at all, please let me know.

Warm regards,

Stephanie Carter
Property Director
scarter@co.monroe.in.us
812-349-2839

AREA FOR COUNTY
RECORDER

BLOOMINGTON TWP.
TOWNSHIP 9 N
RANGE 1 W
SECTION 35

DEVELOPER, APPLICANT &/OR OWNER
JOHN & SHERRY MYERS
3516 E POST ROAD
BLOOMINGTON, INDIANA, 47408
812-340-2618

NOTES:

- 1). 5/8" rebar will be set at all property corners.
- 2). Fieldwork completed October 2023.
- 3). Basis of bearing (State Plane-Indiana West).
- 4). Source of title Now or Formerly owned by John and Sherry Myers as found in Instrument Number 2015013362 in the Office of the Monroe County Recorder.
- 5). Source of title Now or Formerly owned by John and Sherry Myers as found in Instrument Number 2023009446 in the Office of the Monroe County Recorder.
- 6). Coordinates shown hereon were obtained from GPS observations, Indiana West Zone, NAD83, State Plane Grid Coordinates, US Survey Feet. Geoid model ContinentalUS_NGS2018.
- 7). Coordinate data was collected using a Carlson BRX7 GPS and a Topcon FC-5000 Data Collector. Coordinate positions are grid north (Indiana State Plane West Zone).
- 8). If access to a public water system is not available, the Subdivider shall require on each lot, as a condition of sale, the installation of a private water system in accordance with all minimum standards and requirements of the Indiana State Board of Health or other State or County agency per 865-38.
- 9). All utilities, including but not limited to gas, sewer, electric power, telephone and CATV shall be located underground throughout the subdivision per 856-41.
- 10). This survey is not complete without the accompanying surveyor's report.
- 11). I affirm, under penalty for perjury, that I have taken responsible care to redact each Social Security Number in this document, unless required by law.
-ERIC L. DECKARD

REFERENCED SURVEYS:

- 1). Reference is made to a survey performed by Eric L. Deckard for Link dated May 8th, 2012. (Instr. 2012007973)
- 2). Reference is made to a survey performed by Eric L. Deckard for Link dated May 7th, 2012. (Instr. 2012007970)
- 3). Reference is made to a survey performed by Eric L. Deckard for Link dated April 24th, 2012. (Instr. 2012007971)
- 4). Reference is made to a survey performed by Eric L. Deckard for Link dated April 20th, 2011. (Instr. 2011007689)
- 5). Reference is made to a survey performed by Eric L. Deckard for Staats dated October 16th, 2003.
- 6). Reference is made to a survey performed by Robert W. Brunner for Staats dated December 10th, 1967. (Dr. 184, Pgs 121-122)
- 7). Reference is made to the plat of Grandview Hills 3rd Addition performed by John T. Stapleton dated July 1963.
- 8). Reference is made to the plat of Grandview Hills performed by John T. Stapleton and recorded on December 4th, 1957.

CERTIFICATION

This certification does not take into consideration additional facts that an accurate and correct title search and/or examination might disclose.

Easements have not been located in the field and prepared with this survey drawing. This qualification will be removed upon receipt and inspection of current title work.

Subject to the above reservation, the survey work shown hereon was performed either by me or under my direct supervision and control and to the best of my knowledge and belief was performed according to the survey requirements in 865 IAC 1-12-1 through 19.

Certified this _____ day of _____, 2024.

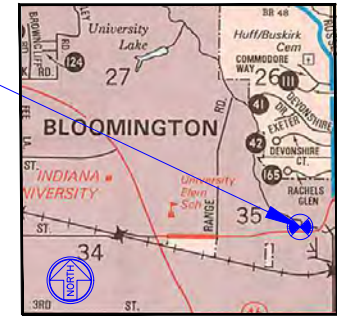
Eric L. Deckard
Registered Surveyor LS 29900012
State of Indiana

Curve Table

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	209.61'	58.20'	58.02'	S 84°49'17" W	15°54'33"
C2	169.11'	87.83'	87.55'	S 84°01'18" W	10°33'58"
C3	4783.67'	149.90'	149.89'	S 78°54'11" W	1°47'43"

MYERS MINOR SUBDIVISION - PRIMARY PLAT A PART OF THE NORTHEAST QUARTER AND A PART OF THE SOUTHEAST QUARTER OF SECTION 35, TOWNSHIP 9 NORTH, RANGE 1 WEST MONROE COUNTY, INDIANA

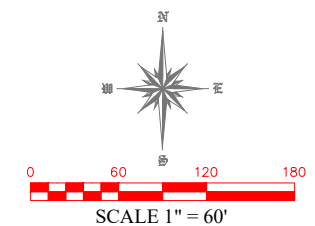
PROJECT LOCATION



LOCATION MAP (NTS)

LEGEND

- STONE FOUND
- ⊙ PROPOSED SEPTIC AREA
- ⊙ REBAR FOUND
- ⊙ REBAR SET
- ⊙ MAG NAIL FOUND
- ⊙ BOAT SPIKE FOUND
- ⊙ PIPE FOUND
- ⊙ CALCULATED CORNER
- ⊙ STREET TREE (SPECIES ON PLAT)
- OVERHEAD POWER LINE
- FENCE
- SS SANITARY SEWER
- SW STORMWATER
- (C) CALCULATED
- (R) RECORD
- (M) MEASURED
- 1234 ADDRESS
- AREA > 25% SLOPE
- EASEMENT AREA
- TREE PRESERVATION AREA



SETBACK TABLE

Front - 15 Feet or the median front setback of abutting residential structures, whichever is less from Loading Garage / Carport: 25 Feet
Side - First Floor: 8 Feet
Each Story above the Ground Floor: 10 Feet
Rear - 25' for Residential / Accessory Structures
ZONE: RESIDENTIAL (R2)

Line Table

LINE	BEARING	DISTANCE
L1	N 40°24'17" W	22.66'
L2	N 25°33'13" W	45.72'
L3	S 74°43'00" W	33.84'
L4	S 79°53'28" W	34.56'
L5	S 11°44'02" E	5.31'
L6	N 11°28'28" W	7.78'
L7	N 41°25'28" W	32.21'
L8	S 78°28'43" W	84.33'
L9	S 78°28'43" W	64.79'
L10	S 35°39'22" E	5.88'
L11	N 35°39'22" E	6.82'
L12	N 54°20'38" E	50.00'

DECKARD
LAND SURVEYING



MYERS
MINOR SUBDIVISION
A PART OF SECTION 35, T9N, R1W

DATE	BY	REVISION
23-137	1	
08/01/24	4	

DATE: 08/01/24
SHEET: BNDY.SHT

MYERS MINOR SUBDIVISION - PRIMARY PLAT
A PART OF THE NORTHEAST QUARTER AND A PART OF THE
SOUTHEAST QUARTER OF SECTION 35, TOWNSHIP 9 NORTH, RANGE 1
WEST MONROE COUNTY, INDIANA

Standards for Specific Easement Types:

1). Waterline Easement

- Shall allow the City Utilities Department exclusive access for installation, maintenance, repair, or removal of potable water facilities.
- Encroachment by other utilities is prohibited, unless such encroachment is approved by the City Utilities Department in conjunction with the primary plat. Upon written permission from the City Utilities Department, encroachments may be permitted after the recording of the secondary plat.
- Trees and structures including, but not limited to, buildings, fences, retaining walls, signs, and light fixtures, shall not be located within waterline easements.
- Grading activity shall be prohibited within waterline easements without written permission from the City Utilities Department.

2). Drainage Easement

- Shall be required for any surface swales or other minor drainage improvements that are intended to serve the lots on which they are located.
- Shall prohibit any alteration within the easement that would hinder or redirect flow.
- Shall provide that the owner of the lot on which the easement is placed shall be responsible for maintenance of the drainage features within such easement.
- Shall be enforceable by the City Utilities Department and by owners of properties that are adversely affected by conditions within the easement.
- Shall allow the City Utilities Department to enter upon the easement for the purpose of maintenance, to charge the costs of such maintenance to the responsible parties, and to assume responsibility for the drainage features at its discretion.

3). Utility Easement

- Shall allow both private and public utility providers access associated with the installation, maintenance, repair, or removal of utility facilities.
- Prohibits the placement of any unauthorized obstruction within the easement area unless authorized by the City Utilities Department and the easement holder(s).

4). Ingress and Egress Easement

- The right to use the existing gravel drive coming from E. Post Road as shown on the plat.
- Grantees of the easement include: Instrument Numbers 2021009407, 2016013298, and City of Bloomington Utilities.
- Dimensions are shown on the plat.

5). Tree Preservation Easement

- Prohibits the removal of any tree over six inches dbh within the easement area.
- Allows the removal of dead or diseased trees that pose a safety risk as well as allowing the removal of exotic or invasive species, only after first obtaining written approval from the Planning and Transportation Department.
- All tree preservation easements shall be identified with public signs located along the boundary of the easement. Public signs shall be placed at intervals of no more than 200 feet, and each public sign shall be a maximum of one- and one-half square feet in area. A minimum of one public sign is required, regardless of easement size. The property owner shall be responsible for installing and maintaining required signage.
- Allows, in cases where removal of exotic or invasive species is proposed, the restoration of disturbed areas with native plant material. Written approval from the Planning and Transportation Department is required prior to any proposed restoration.

6). Conservancy Easement

- Prohibits the placement of a fence, or alteration of any vegetative cover, including mowing, within the easement area.
- Allows the removal of dead or diseased trees that pose a safety risk or impede drainage as well as allowing the removal of exotic or invasive species, only after first obtaining written approval from the Planning and Transportation Department.
- All conservancy easements shall be identified with public signs located along the boundary of the easement. Public signs shall be placed at intervals of no more than 200 feet, and each public sign shall be a maximum of one and one-half square feet in area. A minimum of one public sign is required, regardless of easement size. The property owner shall be responsible for installing and maintaining required signage.
- Allows, in cases where removal of exotic or invasive species is proposed, the restoration of disturbed areas with native plant material. Written approval from the Planning and Transportation Department is required prior to any proposed restoration.

AREA FOR COUNTY
RECORDER

BLOOMINGTON TWP.
TOWNSHIP 9 N
RANGE 1 W
SECTION 35

DEVELOPER, APPLICANT &/OR OWNER
JOHN & SHERRY MYERS
3516 E POST ROAD
BLOOMINGTON, INDIANA, 47408
812-340-2618

CERTIFICATION

This certification does not take into consideration additional facts that an accurate and correct title search and/or examination might disclose.

Easements have not been located in the field and prepared with this survey drawing. This qualification will be removed upon receipt and inspection of current title work.

Subject to the above reservation, the survey work shown hereon was performed either by me or under my direct supervision and control and to the best of my knowledge and belief was performed according to the survey requirements in 865 IAC 1-12-1 through 19.

Certified this _____ day of _____, 2024.

Eric L. Deckard
Registered Surveyor LS 29900012
State of Indiana

DECKARD
LAND SURVEYING
1604 S HENDERSON STREET
BLOOMINGTON, INDIANA 47403
TEL: 812-340-2618
FAX: 812-340-2618
WWW.DLDECKARDLANDSURV.COM



FOR TITLE
MYERS
MINOR SUBDIVISION
A PART OF SECTION 35, T9N, R1W

2024	12	15	18	21	24	27	30	31
2023	12	15	18	21	24	27	30	31
2022	12	15	18	21	24	27	30	31
2021	12	15	18	21	24	27	30	31
2020	12	15	18	21	24	27	30	31
2019	12	15	18	21	24	27	30	31
2018	12	15	18	21	24	27	30	31
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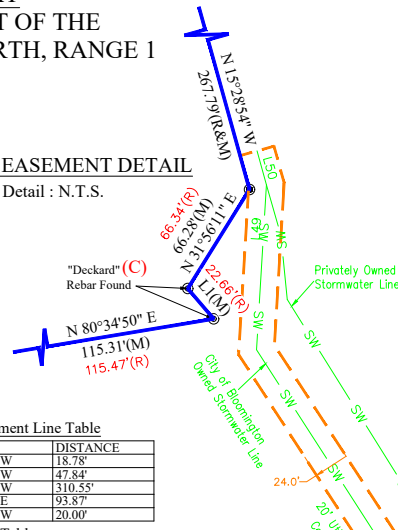
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MYERS MINOR SUBDIVISION - PRIMARY PLAT
A PART OF THE NORTHEAST QUARTER AND A PART OF THE
SOUTHEAST QUARTER OF SECTION 35, TOWNSHIP 9 NORTH, RANGE 1
WEST MONROE COUNTY, INDIANA

AREA FOR COUNTY
RECORDER

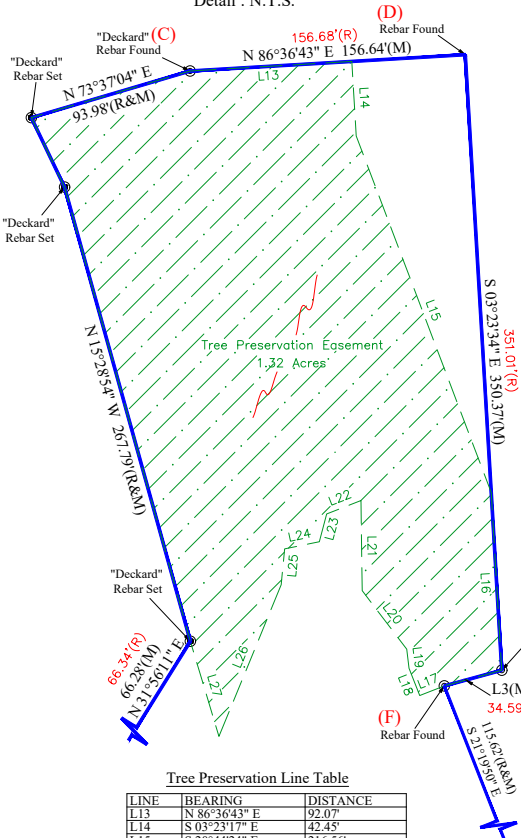
UTILITY EASEMENT DETAIL

Detail : N.T.S.



TREE PRESERVATION DETAIL

Detail : N.T.S.



Tree Preservation Line Table

LINE	BEARING	DISTANCE
L13	N 86°36'43" E	92.07'
L14	S 03°23'17" E	42.45'
L15	S 20°44'24" E	216.56'
L16	S 03°23'34" E	101.22'
L17	S 68°40'10" W	15.00'
L18	N 21°19'50" W	16.67'
L19	N 06°54'01" W	10.91'
L20	N 37°16'54" W	41.76'
L21	N 00°47'39" W	51.21'
L22	S 68°41'47" W	20.91'
L23	S 14°45'12" W	16.32'
L24	S 78°19'31" W	20.14'
L25	S 05°28'57" W	20.45'
L26	S 22°18'57" W	93.16'
L27	N 16°43'56" W	56.43'

Utility Easement Line Table

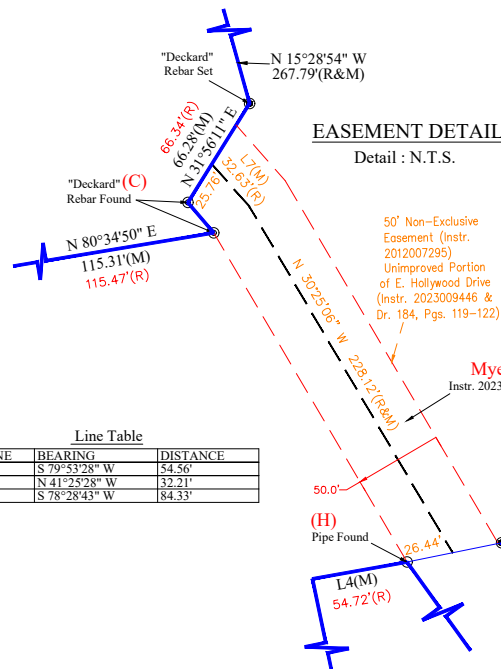
LINE	BEARING	DISTANCE
L46	N 35°39'22" W	18.78'
L47	N 18°49'29" W	47.84'
L48	N 32°47'31" W	310.55'
L49	N 03°26'21" E	93.87'
L50	N 15°28'54" W	20.00'

Curve Table

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	209.61'	58.20'	58.02'	S 84°49'17" W	15°54'33"
C2	169.11'	57.83'	57.55'	S 84°01'18" W	19°35'35"
C3	4783.67'	149.90'	149.89'	S 78°54'11" W	1°47'43"

EASEMENT DETAIL

Detail : N.T.S.

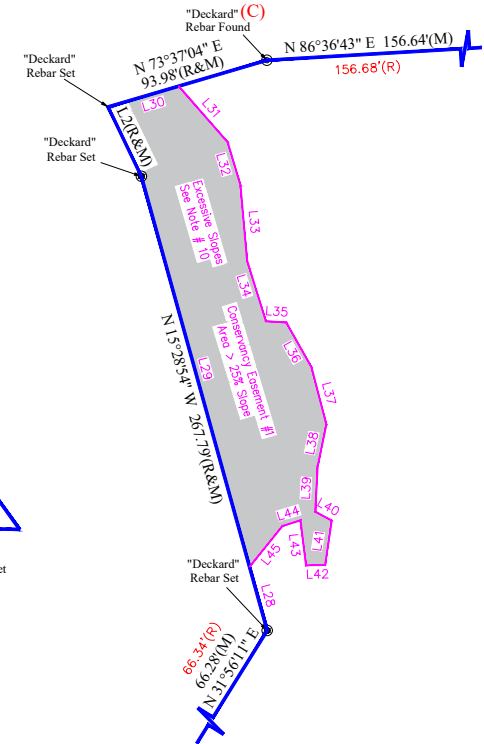


Line Table

LINE	BEARING	DISTANCE
L4	S 79°53'28" W	54.56'
L7	N 41°25'28" W	32.21'
L8	S 78°28'43" W	84.33'

CONSERVANCY EASEMENT DETAIL

Detail : N.T.S.



Conservancy Easement Line Table

LINE	BEARING	DISTANCE
L28	N 15°28'54" W	37.63'
L29	N 15°28'54" W	230.16'
L30	N 73°3'04" E	41.81'
L31	S 41°24'17" E	41.80'
L32	S 16°24'17" E	25.65'
L33	S 04°55'55" E	42.23'
L34	S 17°05'49" E	36.34'
L35	S 85°36'20" E	11.81'
L36	S 29°11'01" E	29.35'
L37	S 14°25'30" E	33.44'
L38	S 11°52'48" W	23.25'
L39	S 03°10'59" W	26.09'
L40	S 60°52'31" E	10.78'
L41	S 83°35'55" W	25.43'
L42	S 89°02'46" W	10.87'
L43	S 06°53'33" W	22.99'
L44	S 73°07'45" W	10.60'
L45	S 39°05'06" W	29.91'

MYERS
MINOR SUBDIVISION
A PART OF SECTION 35, T9N, R1W

OL & TT	DRAFTED	CHECKED	DATE
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JOB NUMBER
23-137

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08/01/24

BNDY.SHT

BLOOMINGTON PLAN COMMISSION
STAFF REPORT – First Hearing
Location: 1030 W. Acuff Road

CASE #: DP-27-24 / PLAT2024-07-0034
DATE: August 12, 2024

PETITIONER: Beacon Builders, LLC
 PO Box 78483, Indianapolis, IN

CONSULTANTS: Bynum Fanyo & Associates, Inc.
 528 N. Walnut Street, Bloomington, IN

REQUEST: The petitioner is requesting primary plat approval for a 122-lot subdivision of 48.83 acres in the Residential Medium Lot (R2) zoning district. The petitioner is also requesting a waiver from the required 67% of lots to be accessed by an alley.

BACKGROUND:

Area:	48.83 acre
Current Zoning:	Residential Medium Lot (R2)
Comp Plan Designation:	Neighborhood Residential
Existing Land Use:	Undeveloped/Agriculture
Proposed Land Use:	Dwelling, Single Family (detached)
Surrounding Uses:	North – Single family residence
	West – Interstate 69/Monroe County Jurisdiction
	East – Single family residences
	South – Office/Single family residences

REPORT: The property is located on the north side of W. Acuff Road and is zoned Residential Medium Lot (R2). Surrounding land uses include agriculture/single family residence to the north, single family residences to the east and west, and office (CFC) and single family residences to the south. The site contains scattered areas of closed tree canopy coverage, as well as several sinkholes in the southwest corner of the site. There is a Duke Transmission line that runs north/south through the western portion of the property. The property currently is undeveloped and has historically been used for agricultural uses.

The petitioner is proposing to subdivide the property to create 122 single family detached residences and 9 common area lots. The proposed subdivision would be accessed with two public street connections to Acuff Road to the south and one public street connection to Kinser Pike to the east. The Transportation Plan shows an extension of Prow Road through this site and this has been shown on the proposed site plan. This extension of Prow Road has been shown through a connection to the existing intersection of Prow and Acuff on the southwest end of the site and extending through the center of the site with a stub shown to the north property line. There are a total of three proposed public street stubs provided to the north, including the extension of Prow Road, for future connectivity. All internal streets within this subdivision would be public with approximately 59% of the lots proposed to be alley accessed. There are nine common area lots shown to meet open space, tree preservation, karst preservation, and storm water detention requirements. The petitioner is proposing to develop this site in three phases and that has been outlined on a Phasing Exhibit.

A Traffic Impact Study was conducted and has been included in the packet. The Traffic Impact Study concluded that existing adjacent intersections at Acuff Road and Kinser Pike, Prow Road

and Arlington Road, Kinser Pike and SR45, and Acuff Road and Prow Road will continue to operate at acceptable levels of service with the additional expected traffic volume from this proposed development. A new stop sign will be installed at the Prow Road/Acuff intersection and Acuff Road would be the stop for Prow Road. No additional traffic control devices were indicated as being warranted on existing intersections other than new internal stop signs to control traffic movement onto the existing adjacent public streets.

Since this property is over 3 acres in size, this subdivision must utilize the Traditional Subdivision type which requires a minimum of 67% of the lots to be served by alleys. The proposed site plan shows approximately 59% of the lots being served by alleys and the petitioner is requesting a waiver from that requirement.

A meeting was held with residents of the adjacent Ridgefield, Northwood Estates, and N. Kinser Pike neighborhoods on May 20, 2024 to present this project and hear comments from adjacent residents. Comments and concerns from attending residents included concerns regarding traffic impacts to existing roads and intersections, access to the property, environmental preservation and loss of green space, and any buffering that would be done from existing residents.

20.06.060(b)(3)(E) PRIMARY PLAT REVIEW: The Plan Commission or Plat Committee shall review the primary plat subdivision petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(g) (Review and Decision), based on the general approval criteria in Section 20.06.040(d)(6) (Approval Criteria) and the following standards:

- i. All subdivision proposals shall be consistent with the need to minimize flood damage.
- ii. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage.
- iii. All subdivision proposals shall have adequate drainage provided to reduce exposure to flood hazards
- iv. Base flood elevation data shall be provided for subdivision proposals and other proposed development (including manufactured home parks and subdivisions), which is greater than the lesser of 50 lots or five acres.
- v. All subdivision proposals shall minimize development in the SFHA and/or limit intensity of development permitted in the SFHA
- vi. All subdivision proposals shall ensure safe access into/out of SFHA for pedestrians and vehicles (especially emergency responders).

PROPOSED FINDING: Findings will be proposed with the second hearing report.

20.06.040(d)(6)(B) General Compliance Criteria

- i. Compliance with this UDO
- ii. Compliance with Other Applicable Regulations
- iii. Compliance with Utility, Service, and Improvement Standards
- iv. Compliance with Prior Approvals

PROPOSED FINDING: Findings will be proposed with the second hearing report.

20.06.060(b)(3)(F) Subdivision Waivers: Waivers from any standards within Chapter 5 shall be reviewed according to the following criteria:

1. The granting of the subdivision waiver shall not be detrimental to the public safety, health, or general welfare, or injurious to other property; and
2. The conditions upon which the request for a Subdivision Waiver are based are unique to the property; and
3. The Subdivision Waiver shall not in any manner vary the provisions of the development standards, Comprehensive Plan, or Transportation Plan.

PROPOSED FINDING: Findings will be proposed with the second hearing report.

20.06.040(d)(6)(D) Additional Criteria Applicable to Primary Plats and Zoning Map Amendments (Including PUDs)

- i. Consistency with Comprehensive Plan and Other Applicable Plans

The proposed use and development shall be consistent with and shall not interfere with the achievement of the goals and objectives of the Comprehensive Plan and any other adopted plans and policies.
- ii. Consistent with Intergovernmental Agreements

The proposed use and development shall be consistent with any adopted intergovernmental agreements and shall comply with the terms and conditions of any intergovernmental agreements incorporated by reference into this UDO.
- iii. Minimization or Mitigation of Adverse Impacts
 1. The proposed use and development shall be designed to minimize negative environmental impacts and shall not cause significant adverse impacts on the natural environment. Examples of the natural environment include water, air, noise, stormwater management, wildlife habitat, soils, and native vegetation.
 2. The proposed use and development shall not result in the excessive destruction, loss or damage of any natural, scenic, or historic feature of significant importance.
 3. The proposed use and development shall not result in significant adverse fiscal impacts on the city.
 4. The petitioner shall make a good-faith effort to address concerns of the adjoining property owners in the immediate neighborhood as defined in the pre-submittal neighborhood meeting for the specific proposal, if such a meeting is required.
- iv. Adequacy of Road Systems
 1. Adequate road capacity must exist to serve the uses permitted under the proposed development, and the proposed use and development shall be designed to ensure safe ingress and egress onto the site and safe road conditions around the site, including adequate access onto the site for fire, public safety, and EMS services.
 2. The proposed use and development shall neither cause undue traffic congestion nor draw significant amounts of traffic through residential streets.
- v. Provides Adequate Public Services and Facilities

Adequate public service and facility capacity shall exist to accommodate uses permitted under the proposed development at the time the needs or demands arise, while maintaining adequate levels of service to existing development. Public services and facilities include, but are not limited to, streets, potable water, sewer, stormwater management structures, schools, public safety, fire protection, libraries, and vehicle/pedestrian connections and access within the site and to adjacent properties.
- vi. Rational Phasing Plan

If the petition involves phases, each phase of the proposed development shall contain all of the required streets, utilities, landscaping, open space, and other improvements that are required to comply with the project's cumulative development to date and shall not depend upon subsequent phases for those improvements

PROPOSED FINDING: Findings will be proposed with the second hearing report.

PLAT REVIEW: The proposed subdivision is following the Traditional Subdivision (TD) design standards.

Subdivision Standards:

Parent tract size (minimum): 3 acre. This petition size is 48.83 acres and is required to follow the Traditional Subdivision design.

Open space required: 5% (2.4 acres required; 12.68 acres provided)

Block length: 800 feet maximum; 987 and 1,600 feet proposed. There are two sections of road that exceed the 800' maximum block length. One, along the west side of the property that measures approximately 1,600 feet. And the second, a portion of the Prow Road extension that measures approximately 987 feet. These would require a waiver since they exceed the 800 foot allowance. All other proposed roads meet the 800 foot allowance.

Cul-de-sac length: Not permitted and none proposed.

Lots served by alleys: 67% *waiver requested to allow 59%.

Transportation facilities:

Kinser Pike: Neighborhood Connector typology and requires a total of 62' of right-of-way. A multi-use path is the recommended facility along the west side of Kinser Pike. Secondary Arterial road classification. A minimum 10' wide asphalt, multi-use path and 8' tree plot are required along the west side of Kinser Pike and must be shown.

Acuff Road: Neighborhood Connector typology and requires a total of 60' of right-of-way. Secondary Collector road classification. A 7' wide concrete sidewalk and minimum 8' wide tree plot are required. The required 7' wide sidewalk has been shown, however there is an existing 12" public water line along the north side of Acuff Road that creates a conflict with meeting the required separation requirement for street trees from utility infrastructure. A 10' separation is required for large canopy trees and a 5' separation is required for medium or small trees. The tree plot and required street trees must be placed either behind the sidewalk or the location of the sidewalk must be moved south to allow the street trees to be located more predominantly in the right-of-way. The Department is continuing to evaluate this aspect and will provide guidance to the petitioner for the second hearing.

Prow Road: Neighborhood Connector typology and requires a total of 60' of right-of-way. Secondary Collector road classification. The extension of Prow Road through this site will require 7' wide sidewalks with a minimum 8' wide tree plot with street trees. The required sidewalk has been shown, however the tree plot width does not meet the 8' minimum width. The proposed cross sections for Prow Road need to be adjusted to show the required tree plot width and must be corrected by the second hearing.

Internal Roads: The proposed internal roads will be designed with a Neighborhood Residential typology and 61' of right-of-way. The Neighborhood Residential typology requires a 6' sidewalk and 5' tree plot which have been shown.

On-street parking: There will be on-street parking along both sides of the internal roads and along one side of the Prow Road extension. The internal streets are shown with 28' from face-of-curb to face-of-curb which follows the Transportation Plan standards for this typology and expected traffic volume. The Prow Road extension is shown with 31' from face-of-curb to face-of-curb and allows for on-street parking on one side.

Lot Establishment Standards:

Lot area and lot width: The minimum lot width in the R2 district is 60' and the minimum lot area is 7,200 square feet. All of the proposed lots meet these standards.

Lot shape: All lots meet the UDO requirement for regular lot size and a depth-to-width ratio not to exceed four to one.

Lot access: All proposed lots have direct frontage on a public street as required. No drive cuts on Acuff Road for the new lots are proposed or allowed. As mentioned previously, there will be several alleys within the development to provide access to a majority of the lots. However, the UDO requires 67% of the lots to be served by alleys and the proposed site plan only has 59% of the lots served by an alley. This would require a waiver to be granted to allow. There are lots along the north side of the property that could be served by an alley and would allow the petition to meet the UDO requirements.

Open Space:

Common Area:

Tree Preservation: The petitioner has shown approximately 13.02 acres of existing tree canopy coverage of the 48.83 acre property, which equals approximately 26% coverage. Based on the coverage shown, the UDO requires 80% of the tree canopy to be preserved, which equals 16.28 acres of required preservation. Although the proposed tree preservation exhibit shows the required preservation, there appears to be several areas of preservation shown that may not have trees in them or the actual trees do not lie on this property and only the dripline extends onto this property. The Department is continuing to evaluate the amount of existing coverage and will be able to more definitively analyze the proposed preservation by the second hearing.

Karst Features: There are several karst features that have been identified on the southwest portion of the property. Many of the features are located in a common area lot and have all been shown with the required karst conservancy easement.

Storm Water: A stormwater management plan has been submitted to the City of Bloomington Utilities Department for their review. Final acceptance and approval from CBU is required prior to issuance of any permits.

Flood Damage Mitigation: There are no portions of this site that lie within the regulated 100-year floodplain.

Streets and Right-of-Way Standards:

Private/Public Streets: There are no private streets shown and all streets within this development will be public.

ROW width: All of the new internal street will be public streets with a Neighborhood Residential typology which requires 61' of dedicated right-of-way, which has been shown. Acuff road should have 60' of right of way and this appears to be shown on the proposed primary plat, however the street centerline is not indicated and must be shown. Kinser Pike should have 62' of right-of-way and again, this appears to be shown on the proposed primary plat, however the street centerline is not shown and must be shown prior to the second hearing.

Street Design: The internal streets will have on-street parking on both sides and based on the expected traffic volume, the Transportation Plans calls for a Neighborhood Residential with less than 500 ADT to have a width of 28' from face-of-curb to face-of-curb. This has been shown on the proposed cross section. The extension of Prow Road through the site is intended to have on-street parking on one side, and the Neighborhood Connector typology in the Transportation Plan calls for a 31' width from face-of-curb to face-of-curb. This cross section has also been shown on the Primary Plat.

Alleys: There are several alleys that are shown within the development and these have been shown within the required 20' of right-of-way and will be built to UDO and Engineering Department standards.

Arterial Frontages: Although this property does have frontage on Kinser Pike, which is classified as a Secondary Arterial road, there are no lots along that frontage and therefore the Arterial Frontage standards do not apply.

Street Names: Street names will be proposed and finalize with the Secondary Plat.

Street Lighting: A lighting plan has not been shown yet and must be shown before the second hearing.

Utilities: A utilities plan has been submitted to the City of Bloomington Utilities and is currently under review. Final acceptance and approval from CBU is required prior to secondary plat approval. At this time, no problems with meeting CBU design standards has been identified.

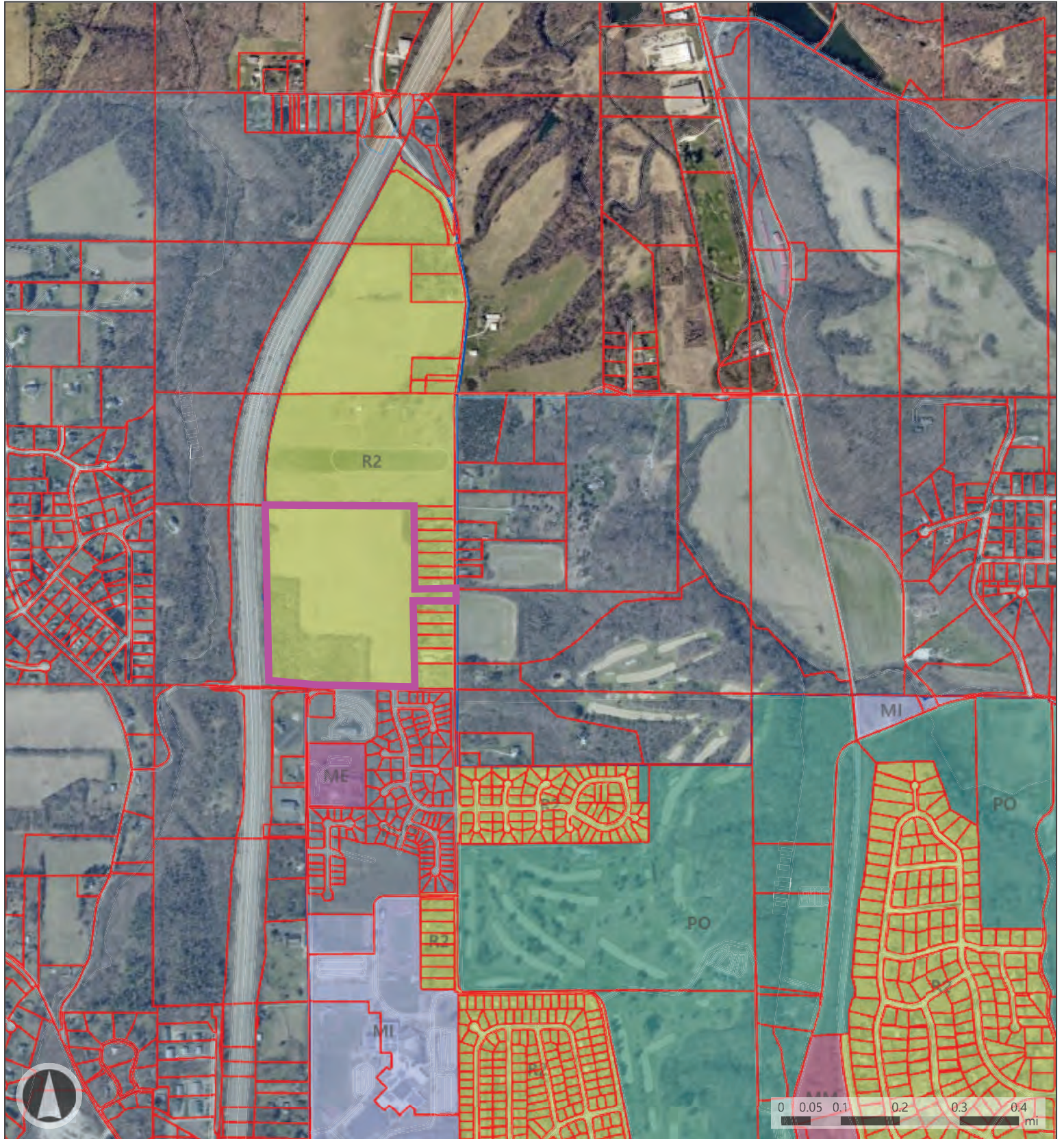
Universal Design: The UDO requires that subdivision that contain more than 25 lots designed to accommodate single family detached or single family attached dwellings, at least 20% of the dwelling units shall incorporate at least one entrance at grade level and not requiring any steps up or down or a ramp for entry. Many of the lots are shown with finished elevations with minimal slope to the adjacent sidewalk elevations and compliance with this requirement is expected to be able to be met with final plans. This will be verified with final plans with the secondary plat.

Items to address before Second Hearing:

- All Common Area lots need to have a lot number (not a letter) and lot size noted on the Primary Plat. These areas also need to be noted as undevelopable lots that cannot be sold separately.
- Roadway cross sections should indicate the required pedestrian facility one foot within the right-of-way line per the Transportation Plan.
- Underground Fiber Network must be shown to City of Bloomington ITS standards.
- Site plan exhibits showing road design and related improvements must be modified to Engineering Department standards.
- Roadway cross sections should be shown on separate individual page of primary plat.

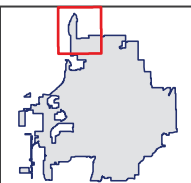
- Proposed detention area along the north side of the Kinser Pike connection must be included in Facilities Maintenance Plan.
- Waiver required for two roadway sections that exceed the 800' block length maximum and the petitioner statement must be modified to include that request.
- Centerline of adjacent roads (Acuff Road and Kinser Pike) must be shown on Primary Plat, including measurements showing existing and proposed right-of-way.
- 10' wide asphalt multi-use path must be shown along the west side of Kinser Pike.
- Street trees are required along the Acuff Road frontage and must be shown.
- Existing utilities must be shown on the Primary Plat.
- Proposed cross sections for the Prow Road extension must be adjusted to meet the Transportation requirements.
- A street lighting plan must be designed and submitted according to City Standards.

RECOMMENDATION: The Planning and Transportation Department recommends that the Plan Commission forward this petition to the required second hearing.



Map Legend

Parcels	Metropolitan Planning Area	Mixed-Use Medium-Scale
Bloomington Municipal Boundary	Mixed-Use Employment	Parks and Open Space
Urban Area	Mixed-Use Institutional	Planned Unit Development





BYNUM FANYO & ASSOCIATES, INC.

ARCHITECTURE
CIVIL ENGINEERING
PLANNING

July 8th, 2024

Eric Greulich
City of Bloomington Planning Department
401 N. Morton Street
Bloomington, Indiana 47404

RE: Kinser Ridge Subdivision
Plan and Preliminary Plat Approval Petitioner's Statement

Eric Greulich or To Whom It May Concern:

Our client, Beacon Builders LLC, respectfully requests subdivision plan and preliminary plat approval for the referenced project and to be placed on the next Plan Commission agenda for the plan to be approved by the Plan Commission members.

Project Narrative:

The proposed development at North Kinser Pike consists of subdividing the existing 48.83-acre property into 122 lots for home development, four lots for drainage, and five common lots. An extension of existing North Prow Road is proposed to in a stub to the north, as well as a new connection to North Kinser Pike, and a connection to West Acuff Road ending in a stub to the north. We plan to treat most stormwater within the site's proposed drainage lots with the implementation of drainage pond facilities. The entire site is within the City's 'Residential Medium Lot' zoning boundary.

This proposed development is proposing a waiver (1 item) from the current UDO:

1. UDO Section 20.05.050 – Subdivision Design Standards

The UDO requires 67% of lots in a traditional subdivision to be served by alleys. Our proposed development contains 72 lots served by alleys of 122 total, meaning only 59% of proposed lots are served by alleys. We would like to request a waiver from this condition as the nature of the site, existing canopy cover, and north-south utility easement restricts the possibility for higher alley connectivity. Many lots are located in close proximity to or bordered directly by existing Karst features such as sinkholes or springs, or existing areas of canopy cover which are desired to remain unobstructed.

After you have had a chance to review our petition please feel free to contact us at any time with questions regarding our submission.

Sincerely,
Bynum Fanyo & Associates, Inc.

Daniel Butler, P.E., Project Engineer

Copy: BFA File #402334

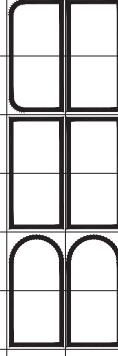
PROPOSED:

KINSEY RIDGE SUBDIVISION

NORTH PROW ROAD

BLOOMINGTON, IN 47404

UTILITY CONTACT INFORMATION			
GAS	SEWER AND WATER	ELECTRIC	
VEHICLE			
AMERICAN GAS	CITY OF BLOOMINGTON UTILITIES	DOMESTIC ENERGY	
10000 WASHINGTON PI.		10000 WASHINGTON PI.	
BLOOMINGTON, IN 47401		10000 WASHINGTON PI.	
DOUG ANDERSON (812)550-4009	WATER WORKS IN 7402	JOHN SHIELDS (917)795-2071	
	MARCY KOSCH (812)344-3688		
		UNDERGROUND UTILITY LOCATION	
		NOVANA UNDERGROUND	
		PLANT PRODUCTION	
		1-800-835-1554	
TELEPHONE	CABLE TELEVISION		
AIR	COMCAST		
516 BAY SE. #1050	3000 SOUTH INDEPENDENCE STREET		
ALBANY, GA 31706	SCOTT DARTNITT (812)355-7622		
8801 N. WATKINS (812)324-4251			



BYNUM FANYO & ASSOCIATES, INC.

528 North Walnut Street

Bloomington, Indiana	47404	(812)	332-8030
----------------------	-------	-------	----------

OWNER/DEVELOPER:
BEACON BUILDERS LLC
PO BOX 78483
INDIANAPOLIS, IN 46278

THE CURRENT EDITION OF THE INDIANA DEPARTMENT OF
TRANSPORTATION, MANUAL ON UNIFORM TRAFFIC CONTROL
DEVICES & CITY OF BLOOMINGTON UTILITIES STANDARD
SPECIFICATIONS IS TO BE USED WITH THESE PLANS

Certified By:	Revisions
---------------	-----------

JEFFREY S. FANYO, P.E.
IND. REG. NO. 18283

37
KINSER RIDGE SUBDIVISION
PROJECT NO. 402334

KINSER RIDGE
SUBDIVISION
PROJECT NO. 402334



SHEET INDEX

SHEET NO.	SHEET NO.
C301	OVERALL SITE PLAN
C302-308	ENLARGED SITE PLANS
C401-408	PROFILE PLANS
C501	LANDSCAPING PLAN
C602	ROAD CROSS SECTIONS

VICINITY/LOCATION MAP	SCALE: 1"=2000'
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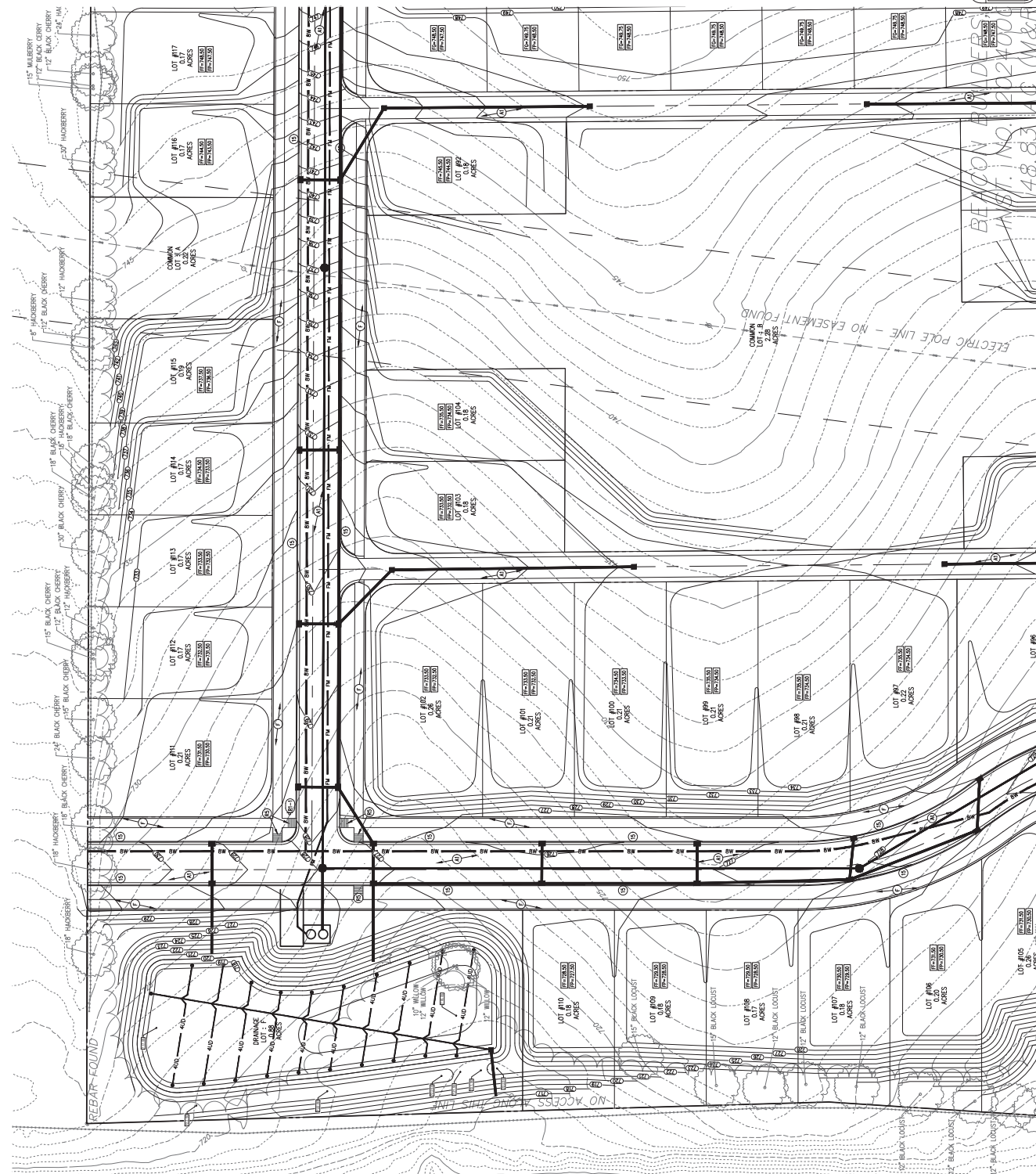
architecture

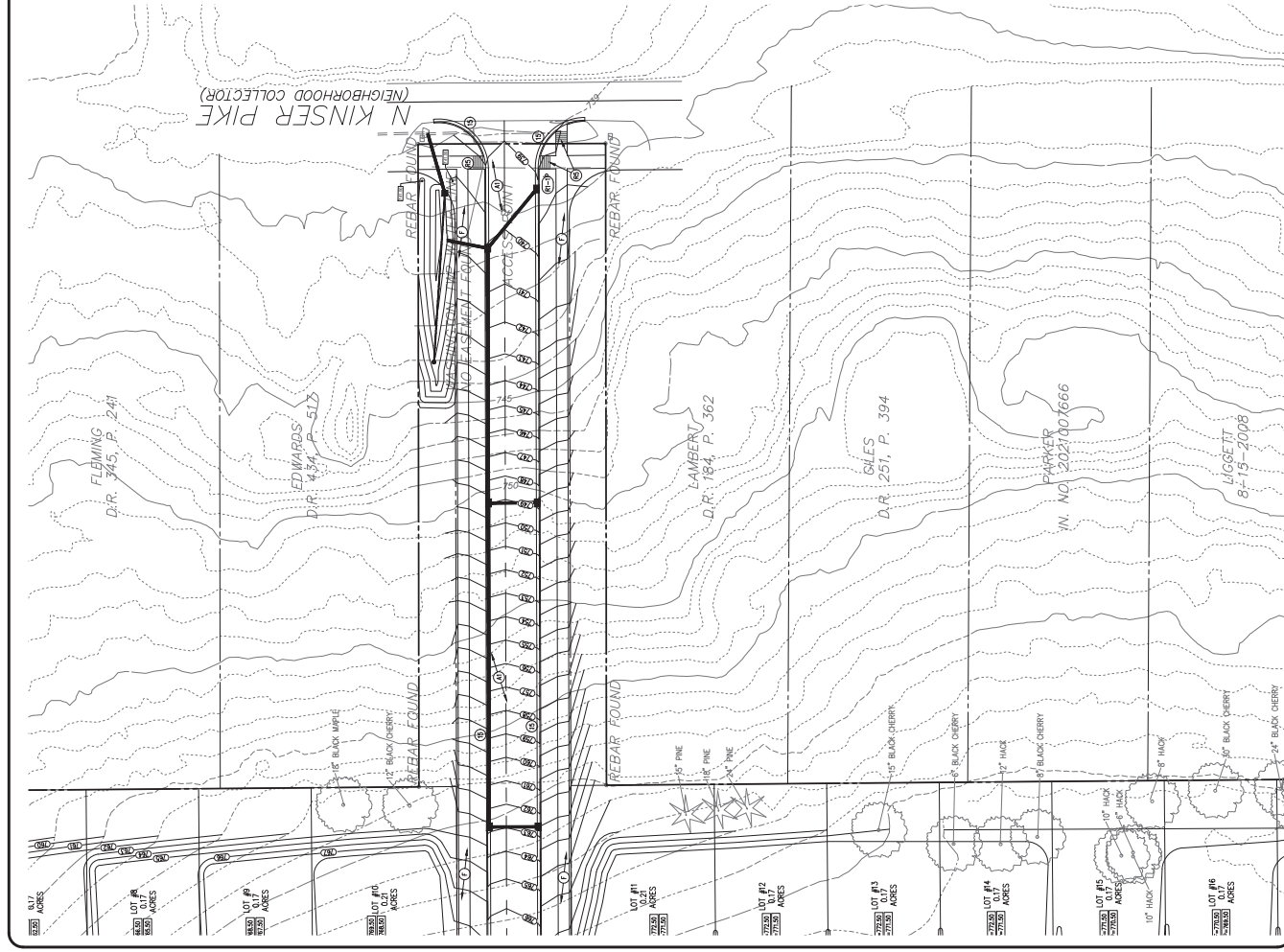
civil engineering

planning

NOTE TO CONTRACTOR

SCALE: 1"=30'





EXISTING LEGEND

EXISTING WATER	—X—
EXISTING FIBER	—X—
EXISTING OVERHEAD UTILITY LINES	—W—
EXISTING UNDERGROUND ELECTRIC LINES	—OE—
EXISTING UNDERGROUND TELEPHONE LINES	—UE—
EXISTING UNDERGROUND CABLE OPTIC LINES	—UC—
EXISTING UNDERGROUND FIBER OPTIC LINES	—FO—
EXISTING GAS LINE	—GAS—
EXISTING SANITARY FORCEMAIN	—FM—
EXISTING ELEVATION CONTROL LINE	—XXX—
EXISTING SANITARY SEWER AND MANHOLE	—○—
EXISTING EXISTING STORM SEWER AND INLET PROPERTY LINE	==
EXISTING DRAINAGE	==
EXISTING ELEVATION	==
EXISTING GEOTECHNICAL BORING HOLE LOCATION - SEE SEPARATE SHEET FOR INFORMATION BY "APC"	=====
GEOTECHNICAL BORING KEY	=====
ROCK	XXXXXX
POSSIBLE ROCK	XXXXXX
ROCK ELEVATION	=====

UTILITY LEGEND

[illegible]

SITE | LEGEND

42	PROPOSED HEAVY DUTY ROAD BITUMINOUS PAVING
4	PROPOSED CONCRETE SIDEWALK
15	PROPOSED # 4 IN CONCRETE CURB AND GUTTER
66	PROPOSED SIDEWALK ACCESSIBLE RAMP TYPE H
64-1	PROPOSED HOOT 30 x 30 x 30 IN. ROAD STOP SIGN

GRADING | LEGEND

——— XXX ——— PROPOSED GRADE CONTOUR
 - - - - - XXX - - - - - EXISTING GRADE CONTOUR
 [XXX.XX] ——— PROPOSED SPOT GRADE ELEVATION
 FP-XXX.XX FINISH PAD ELEVATION
 FF-XXX.XX FINISH FLOOR ELEVATION
 FB-XXX.XX FINISH BASEMENT LEVEL ELEVATION

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

SCALE: $1^{\circ} = 30'$

SCALE: 1"=30'

42
designed by: DAS
drawn by: DAS
checked by: DJB

sheet no: C304
project no.: 402334

title: ENLARGED
PLAN

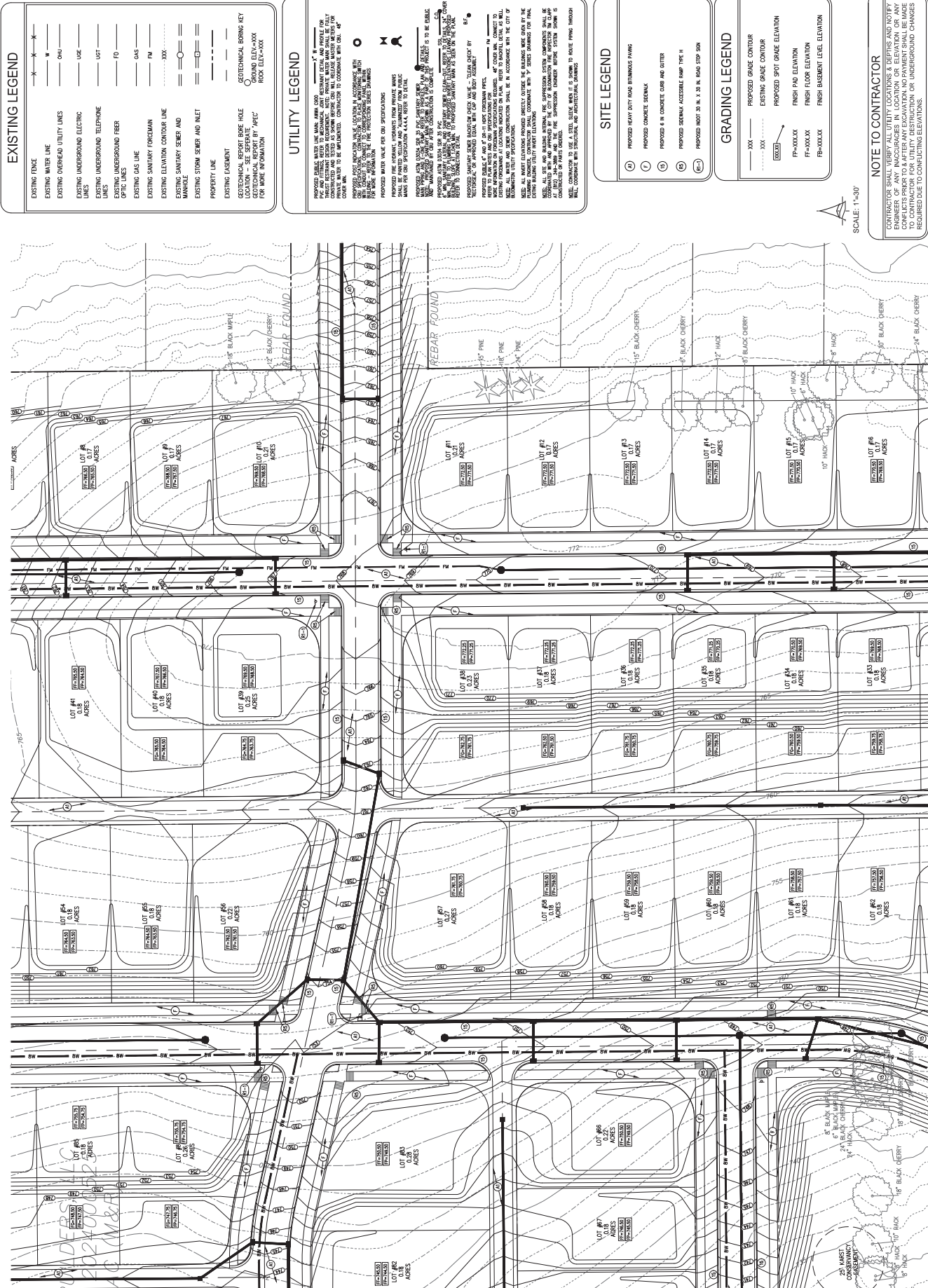
PROPOSED
KINSER RIDGE SUBDIVISION

certified by: _____

BYNUM FANYO & ASSOCIATES, INC.
528 north walnut street
(812) 332-8030

ARCHITECTURE
CIVIL ENGINEERING
PLANNING
Bloomington, Indiana
(812) 339-2990 (Fax)

revisions:



EXISTING LEGEND

- [illegible]

UTILITY | LEGEND

- [illegible]

SITE LEGEND

- | | |
|----|---|
| 41 | PROPOSED HEAVY DUTY ROAD BITUMINOUS PAVING |
| 42 | PROPOSED CONCRETE SIDEWALK |
| 43 | PROPOSED 6 IN CONCRETE CURB AND GUTTER |
| 44 | PROPOSED SIDEWALK ACCESSIBLE RAMP TYPE II |
| 45 | PROPOSED INDOT 10 IN X 30 IN ROAD STOP SIGN |

GRADING LEGEND

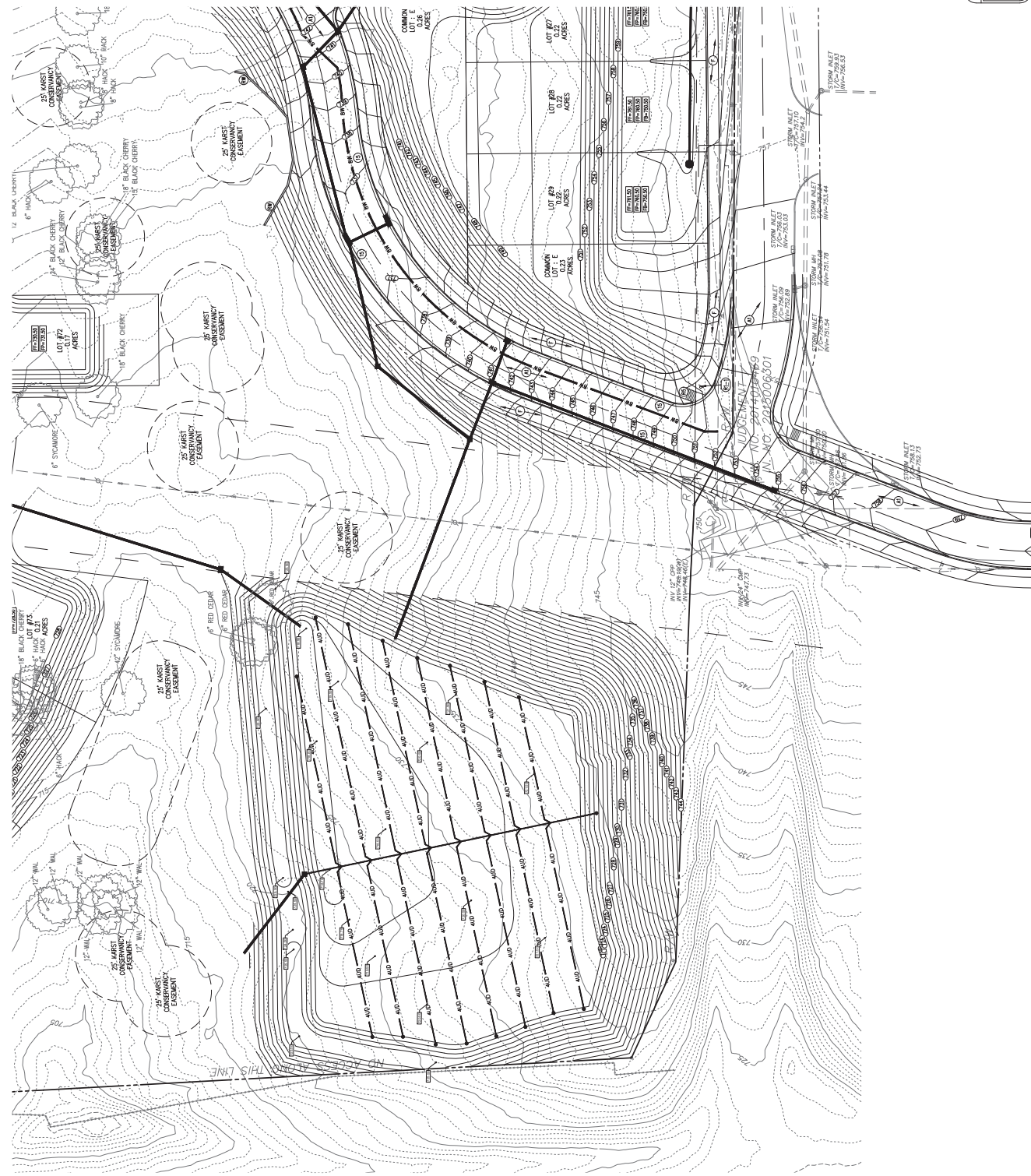
- PROPOSED GRADE CONTOUR
 EXISTING GRADE CONTOUR
 PROPOSED SPOT GRADE ELEVATION
 FINISH PAD ELEVATION
 FINISH FLOOR ELEVATION
 FINISH BASEMENT LEVEL ELEVATION

SCALE: 1"=3'



NOTE TO CONTRACTOR

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revisions:

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CIVIL ENGINEERING
PLANNING

BEACON BUILDERS, LLC
BYNUM FAYND & ASSOCIATES, INC.
528 North Walnut Street
(612) 339-2990 (fax)

certified by:

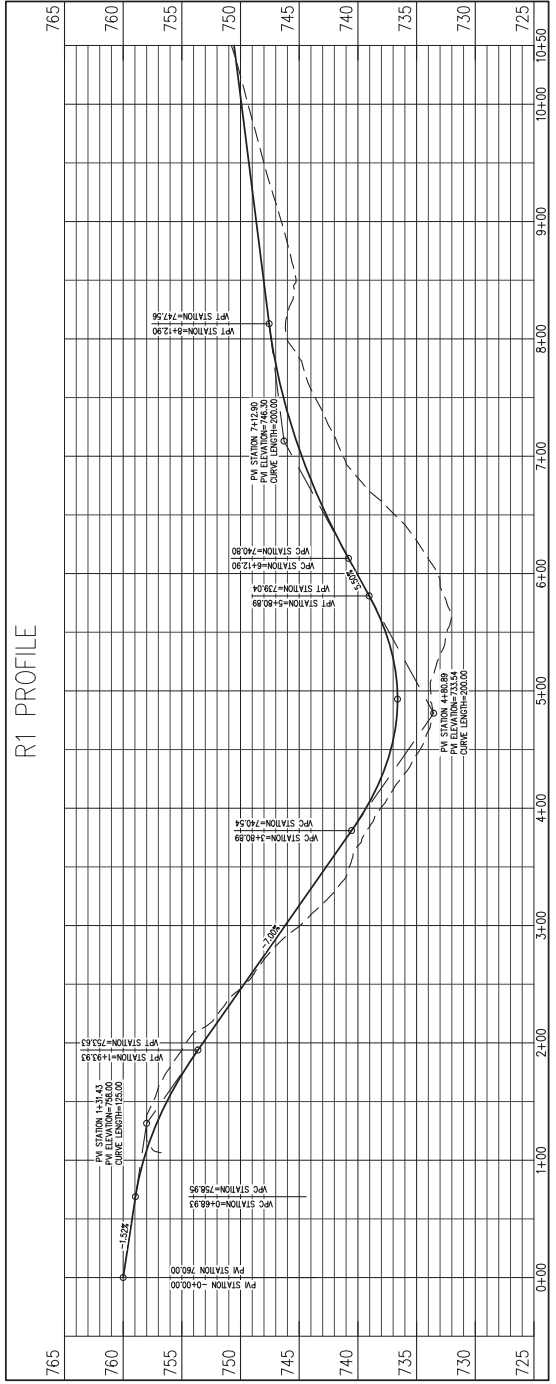
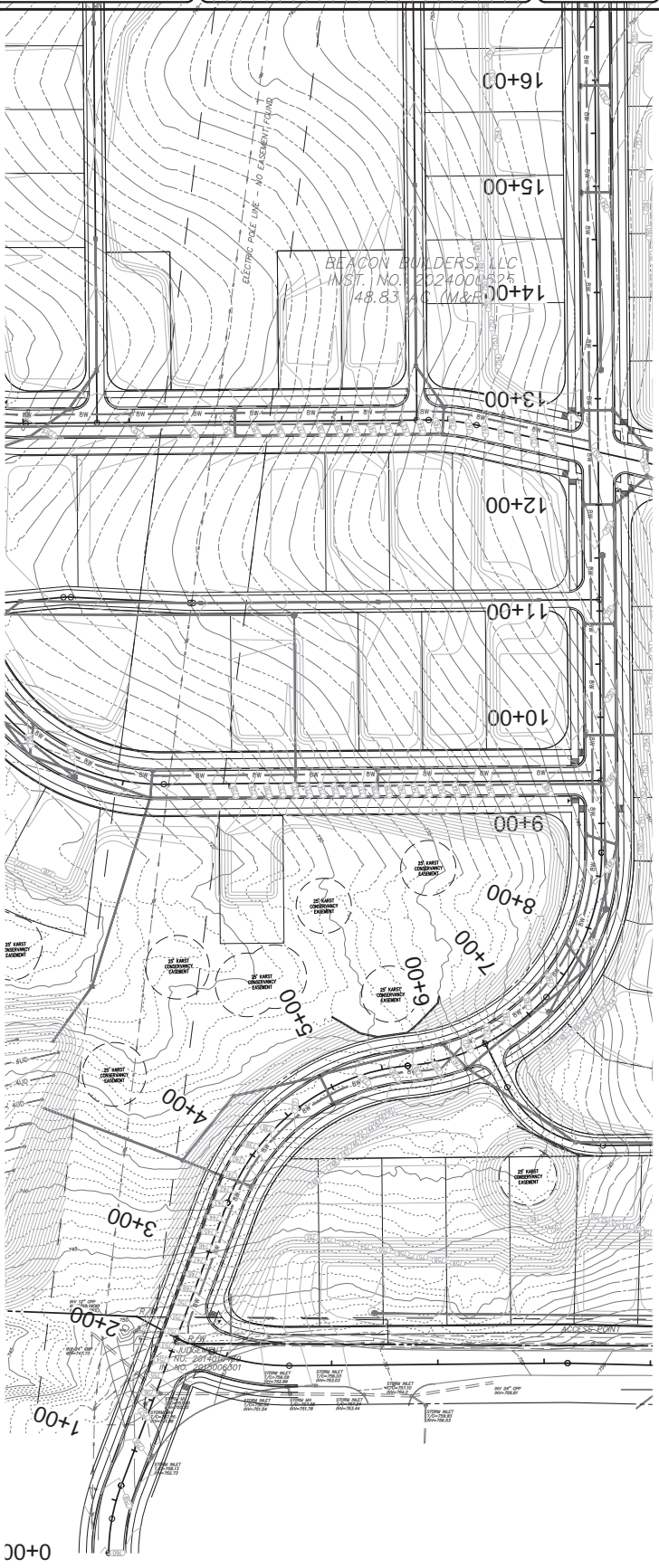
PROPOSED
KINSER RIDGE SUBDIVISION
N PROW RD, W ACUFF RD, N KINSER PIKE,
BLOOMINGTON, IN 47404

designed by: DSC
drawn by: DSC
checked by: DSC
sheet no.: 401
project no.: 402334

47

THE R1 PLAN AND
PROFILE

NOTE TO CONTRACTOR
CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY
ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY
OTHER INFORMATION THAT MAY AFFECT THE DESIGN OR CONSTRUCTION
TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES
REQUIRED DUE TO CONFLICTING ELEVATIONS.



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BYNUM FAYO & ASSOCIATES, INC.



528 North Walnut Street
(612) 332-8630

Bloomington, Indiana
(612) 332-2390 (fax)

certified by:

PROPOSED
KINSER RIDGE SUBDIVISION

N PROW RD, W ACUFF RD, N KINSER PIKE,
BLOOMINGTON, IN 47404

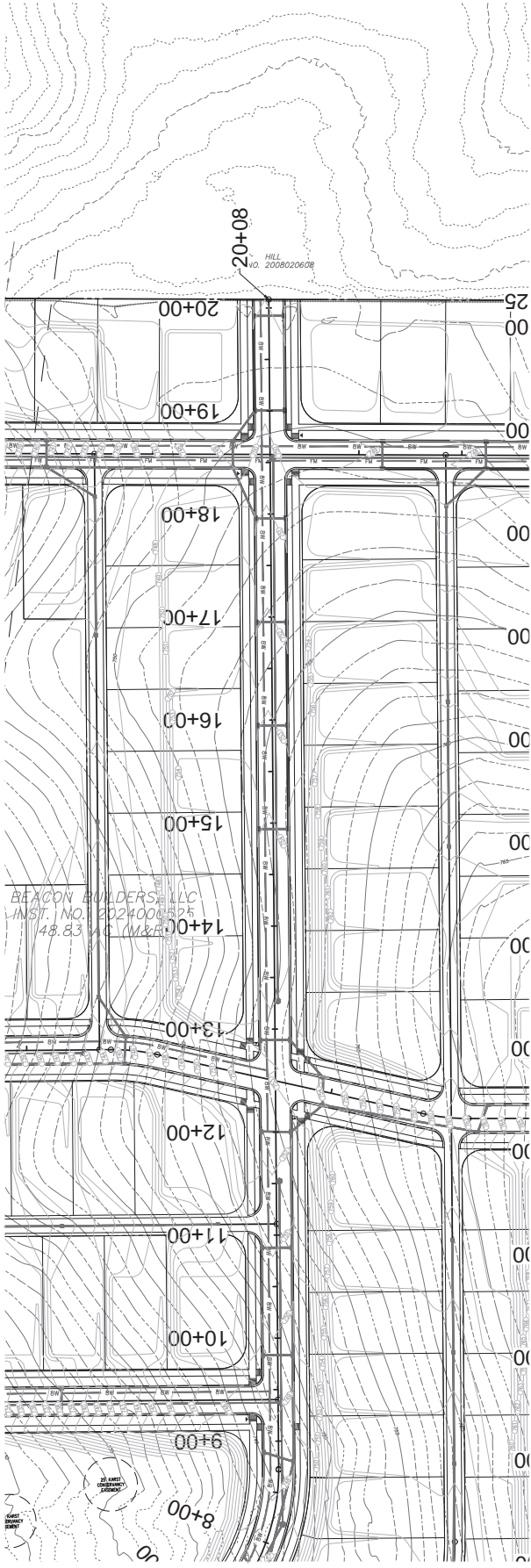
Sheet: R1 PLAN AND
PROFILE

48

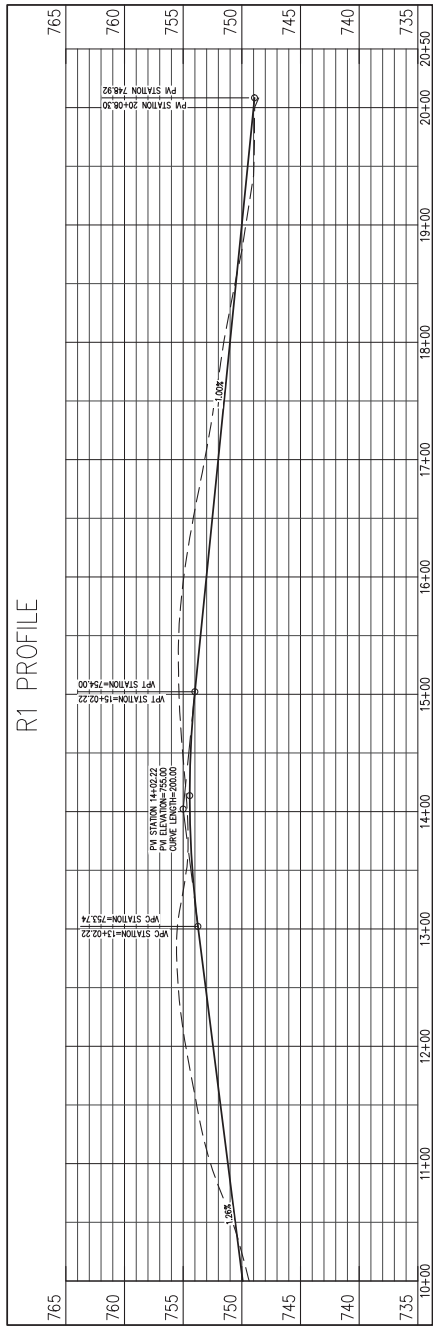
designed by: DSC
drawn by: DSC
checked by: DSC
sheet no.: 4002
project no.: 402334

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS WITH PROPOSED CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.



R1 PROFILE



revisions:

ARCHITECTURE
CIVIL ENGINEERING
PLANNING

BRYAN FAY & ASSOCIATES, INC.
528 North Walnut Street
(612) 332-8630

Bloomington, Indiana
(612) 339-2390 (fax)

certified by:

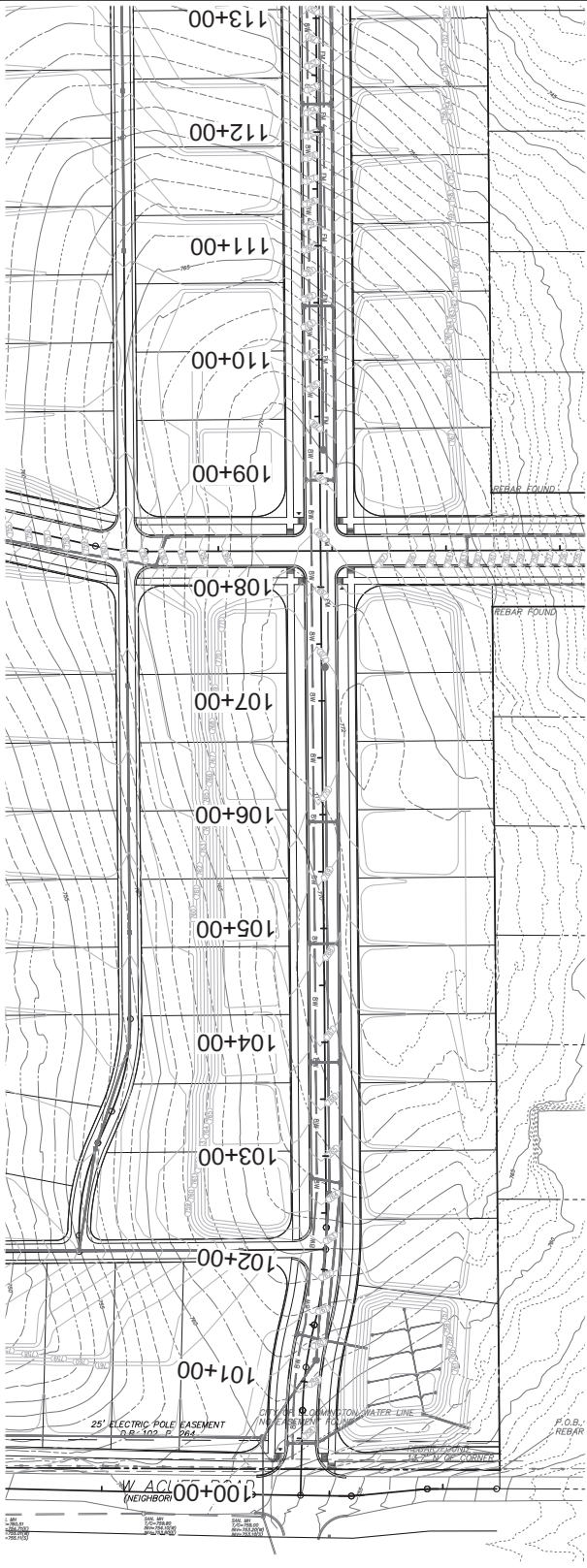
PROPOSED
KINSER RIDGE SUBDIVISION

N PROW RD, W ACUFF RD, N KINSER PIKE
BLOOMINGTON, IN 47404

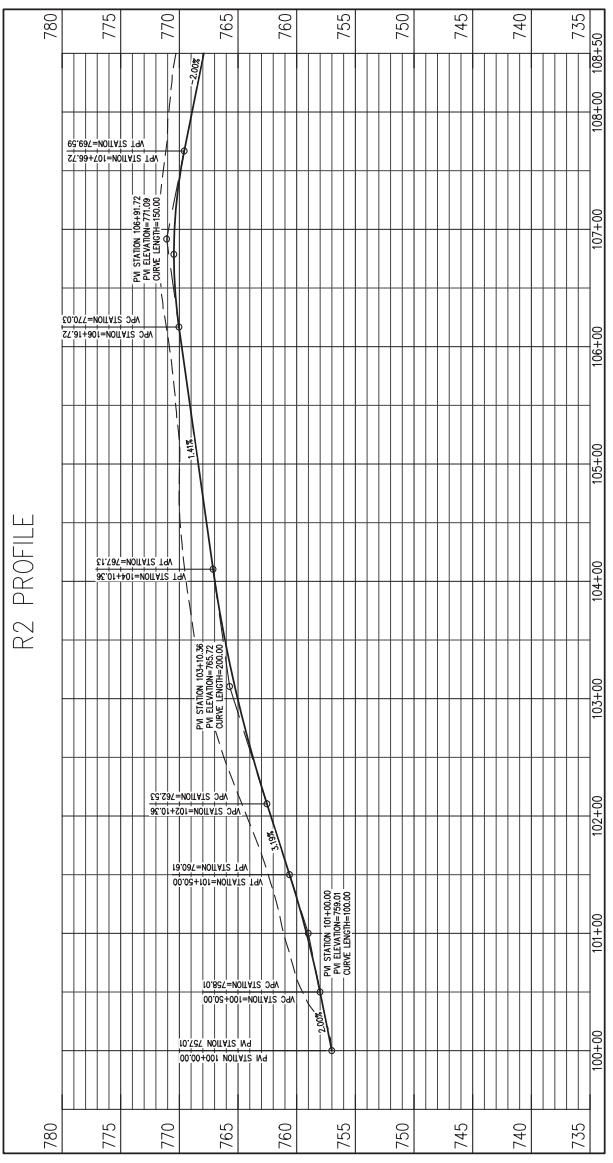
designed by: DCS
drawn by: DCS
checked by: DCS
sheet no: 0403
project no.: 402334

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY DISCREPANCIES BETWEEN RECORD DRAWINGS AND FIELD CONDITIONS. TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.



R2 PROFILE



revisions:

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CIVIL ENGINEERING
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Bloomington, Indiana
(612) 339-2390 (fax)

BBB
BYNUM FAYAT & ASSOCIATES, INC.
528 North Walnut Street
(612) 332-8630

certified by:

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KINSER RIDGE SUBDIVISION
N PROW RD, W ACUFF RD, N KINSER PIKE,
BLOOMINGTON, IN 47404

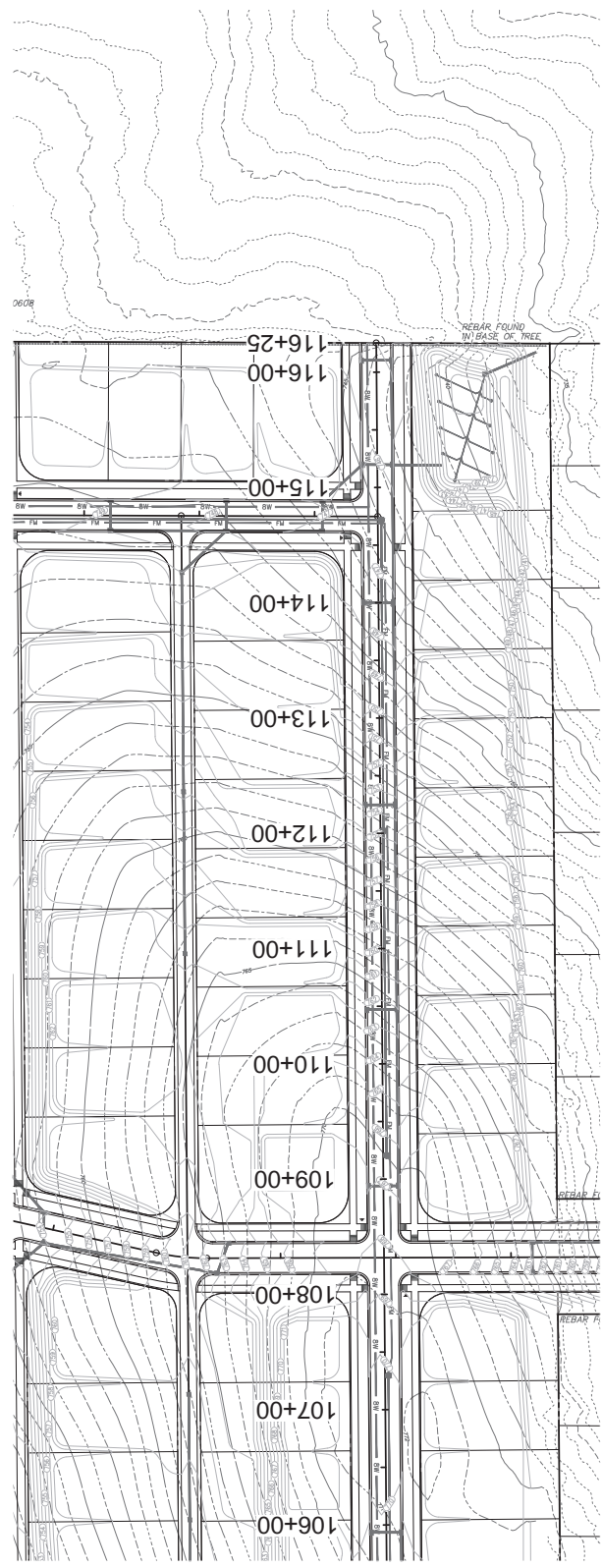
Sheet No. 0404
Project No.: 402334
Title: R2 PLAN AND
PROFILE

designed by: DSC
drawn by: DSC
checked by: DSC
sheet no: 0404
project no.: 402334

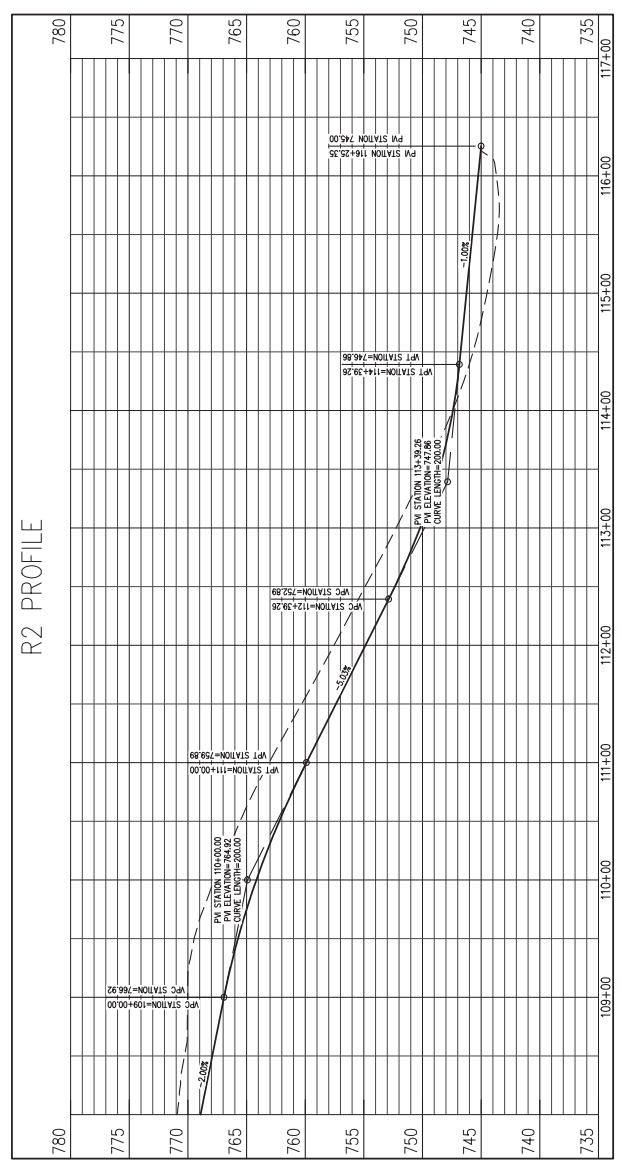
NOTE TO CONTRACTOR

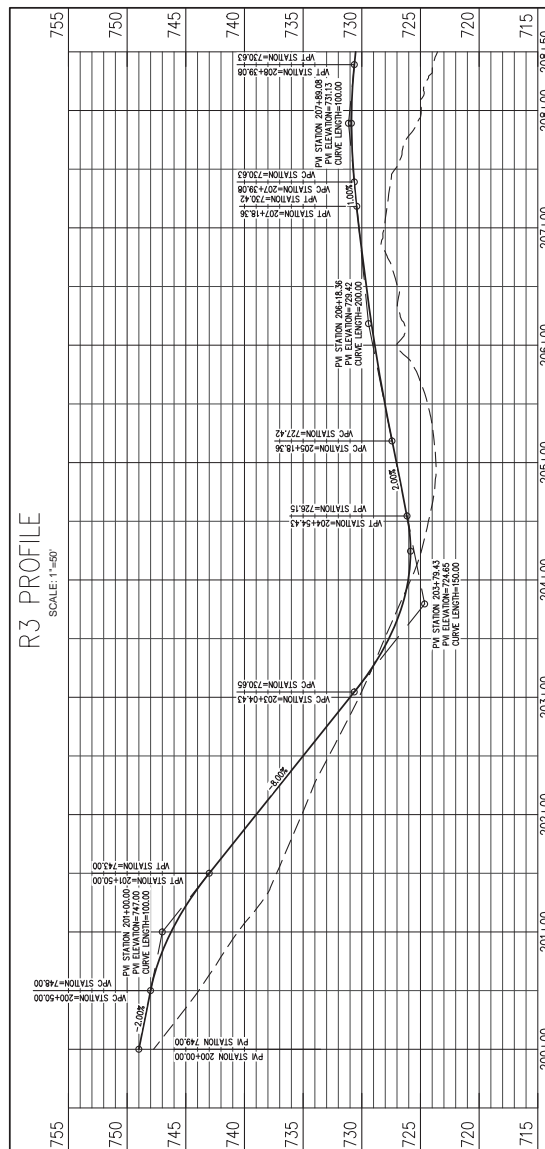
CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY OTHER INFORMATION THAT MAY AFFECT THE DESIGN OR CONSTRUCTION OF THE PROJECT. ANY CHANGES TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

SCALE: 1"=50'



R2 PROFILE





revisions:

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CIVIL ENGINEERING
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528 North Walnut Street
Bloomington, Indiana
(317) 339-2390 (fax)

certified by:

PROPOSED
KINSER RIDGE SUBDIVISION

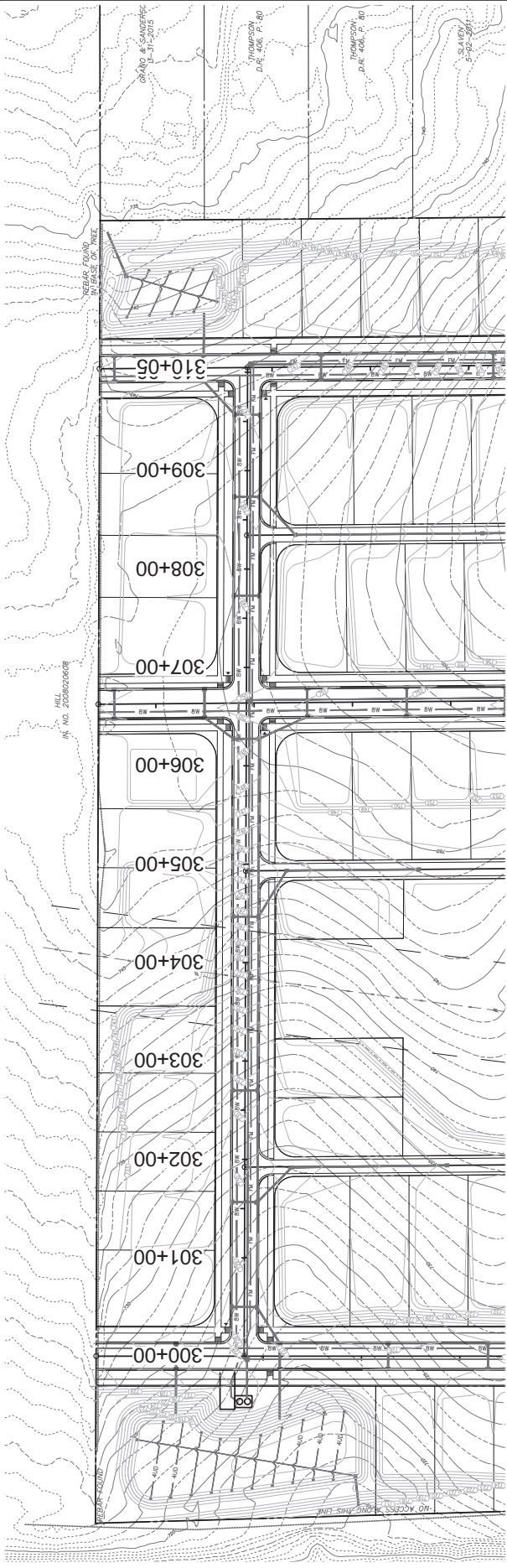
N PROW RD, W ACUFF RD, N KINSER PIKE,
BLOOMINGTON, IN 47404

THE R4 PLAN AND
PROFILE

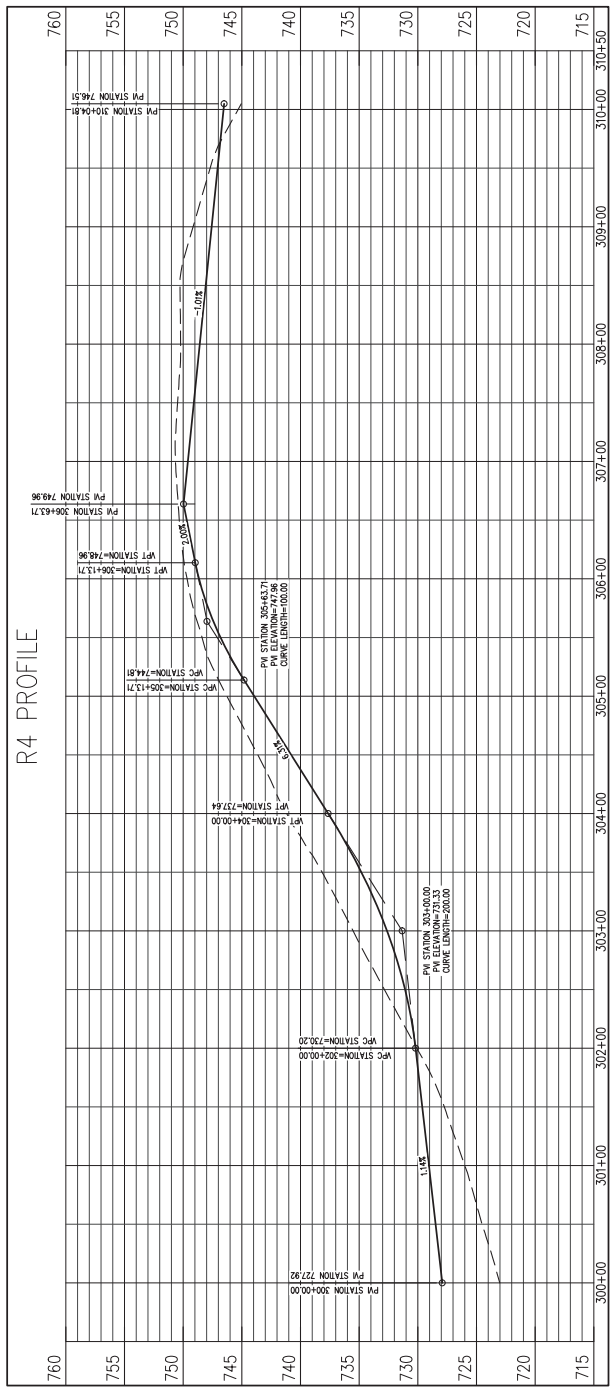
52
designed by: D.C.
drawn by: D.C.
checked by: D.C.
sheet no.: 5407
project no.: 402334

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY OTHER INFORMATION THAT MAY AFFECT THE PROJECT. ANY CHANGES TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.



SCALE: 1"=50'



revisions:

ARCHITECTURE
CIVIL ENGINEERING
PLANNING

BRYNUM FARVO & ASSOCIATES, INC.

528 North Walnut Street
(612) 339-2990 (fax)

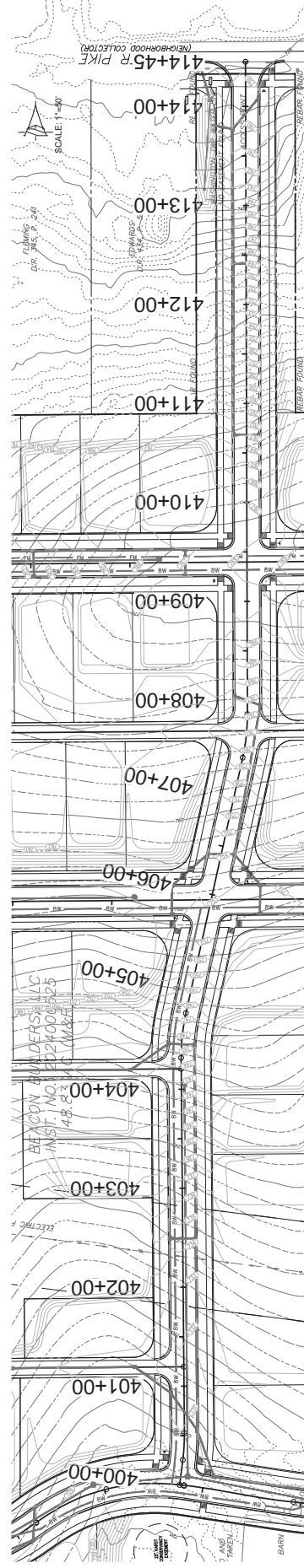
certified by:

PROPOSED
KINSER RIDGE SUBDIVISION

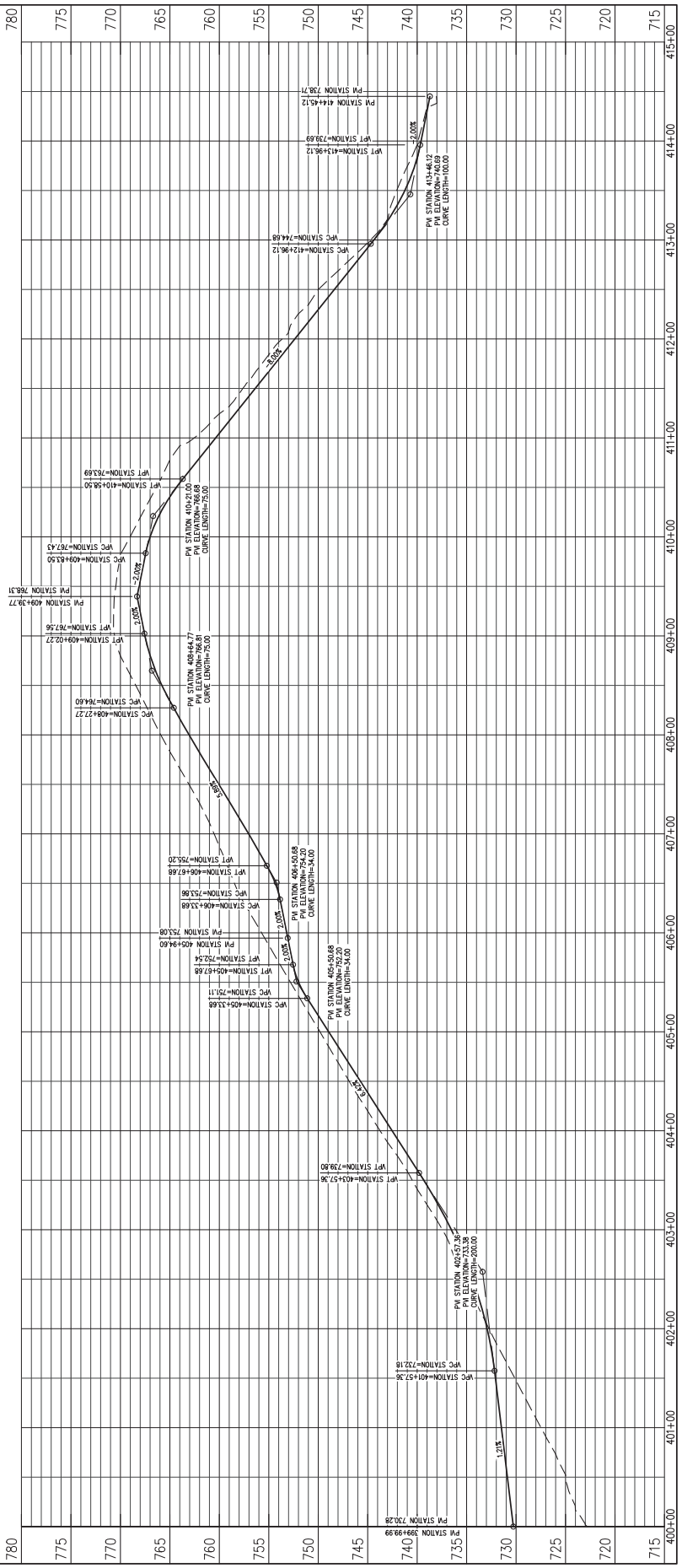
N PROW RD, W ACUFF RD, N KINSER PIKE,
BLOOMINGTON, IN 47404

THE RE PLAN AND
PROFILE

designed by: DSC
drawn by: DSC
checked by: DSC
sheet no.: 0408
project no.: 402334

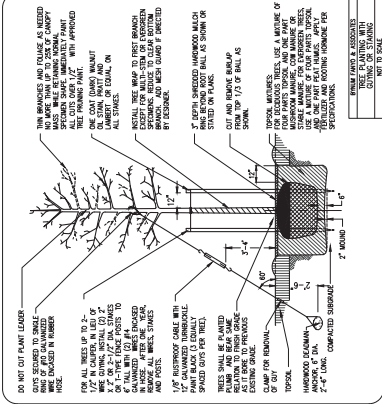


R5 PROFILE



NOTE TO CONTRACTOR

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 NATIVE GRASS/FORB SEED MIX
FRANK'S SEED 4 QUINCKE/ADE
CAREX FRAGR 100 LBS/TON
WINDY HILLS 100 LBS/TON
WINDY HILLS 100 LBS/TON
ELMUS MIXES 4 QUINCKE/ADE
FANCIUM VEGAM 4 QUINCKE/ADE
SODAGRAM EPODM 4 QUINCKE/ADE
LITTLE BLESSED 4 QUINCKE/ADE
SODAGRAM EPODM 4 QUINCKE/ADE
ASTER WIND-ANGUE 1 QUINCKE/ADE
NEW ENGLAND ASTER 1 QUINCKE/ADE
YELLOW SITE AND SEED BED PREPARATION, SEEDING AND MAINTENANCE
KITES AND KITES SEEDING AND MAINTENANCE
SEED MIX SEED MIX SEED MIX
SEED MIX SEED MIX SEED MIX

[illegible]

2 SMALL/MEDIUM TREES
SUBSTITUTED FOR LARGE STREET
TREES WHEN LOCATED WITHIN
ELECTRIC EASEMENT BOUNDS

NOTE TO CONTRACTOR

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SCALE: 1"=100'

revisions:

BBB	ARCHITECTURE	CIVIL ENGINEERING	PLANNING	528 north walnut street (612) 339-8030 bloomington, indiana (612) 339-2990 (fax)
-----	--------------	-------------------	----------	---

certified by:

PROPOSED
KINSER RIDGE SUBDIVISION
N PROW RD, W ACUFF RD, N KINSER P
BLOOMINGTON, IN 47404

title: SITE PLAN

54
designed by: DJB
drawn by: DAS
checked by: DJB
sheet no: C301
project no.: 402334

revisions:

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	CIVIL ENGINEERING	
	PLANNING	
	Bloomington, Indiana	(812) 339-2990 (Fax)

ON.

et
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030

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North
UM F/A

certified by:

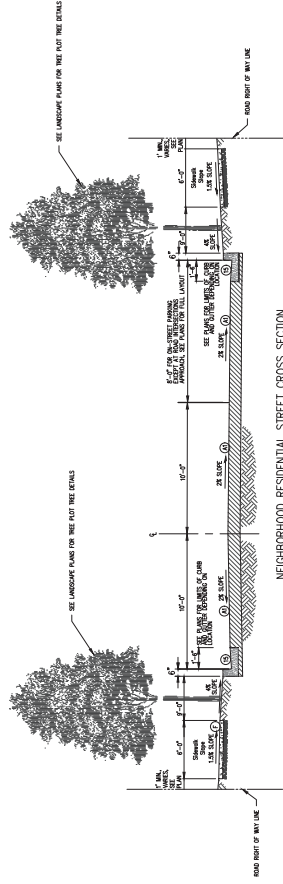
PROPOSED
KINSER RIDGE SUBDIVISION
N PROW RD, W ACUFF RD, N KINSER PIKE,
BLOOMINGTON, IN 47404

**title: ROAD CROSS
SECTION DETAILS**

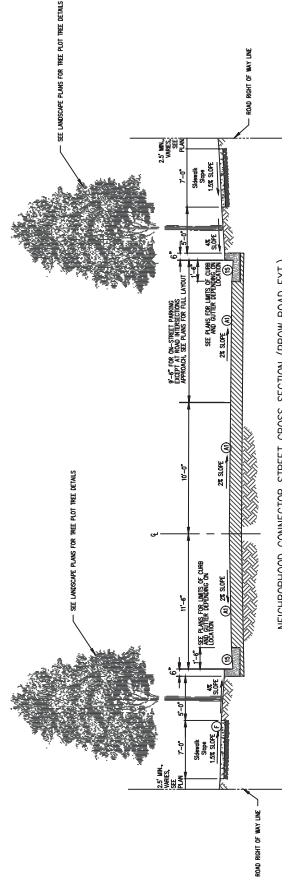
designed by: DAS
drawn by: DAS
checked by: DJB
sheet no: C602
project no.: 402334

NOTE TO CONTRACTOR

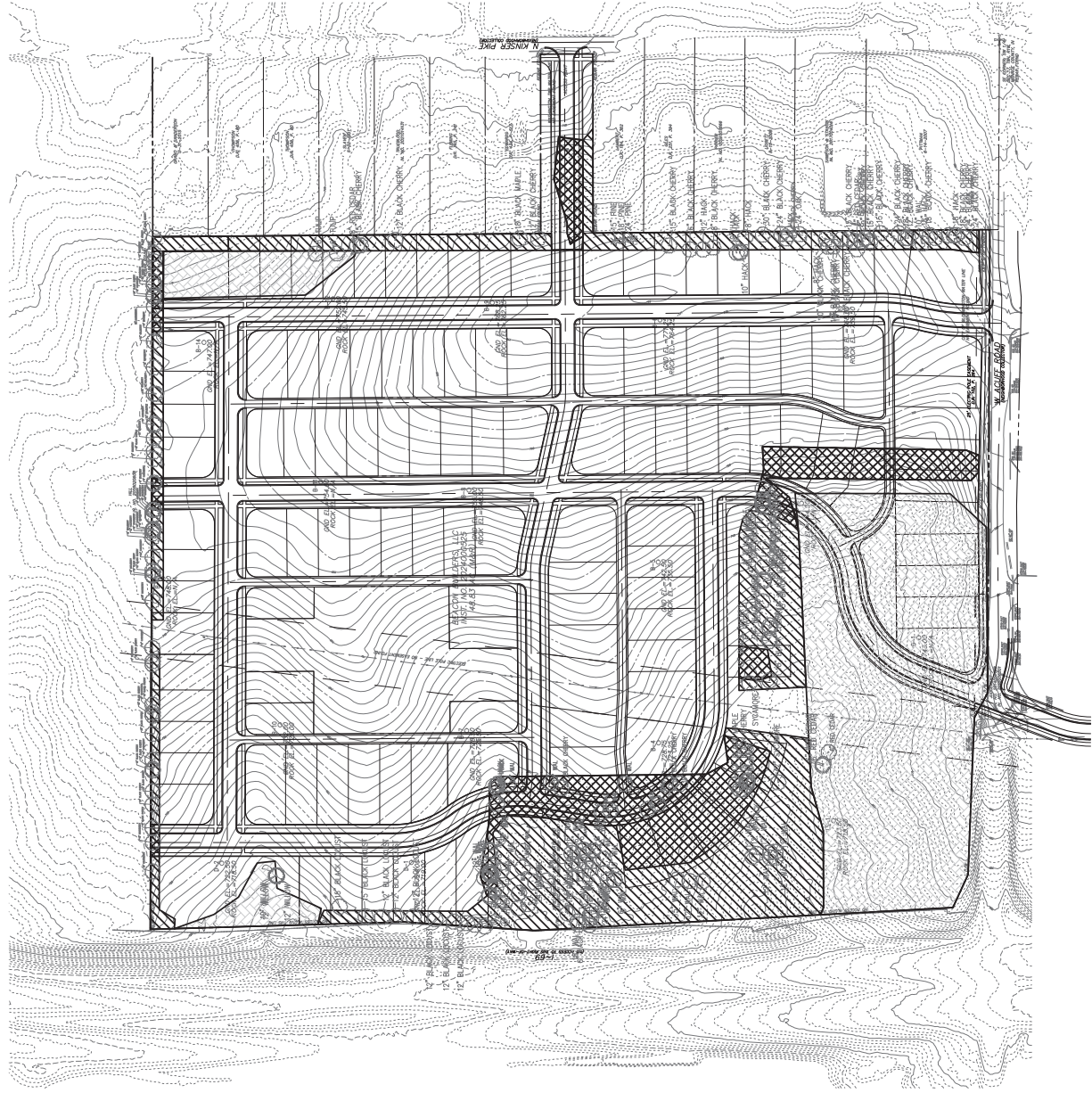
CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.



NEIGHBORHOOD RESIDENTIAL STREET CROSS SECTION



NEIGHBORHOOD CONNECTOR STREET CROSS SECTION (PROW ROAD EXT.)



EXISTING LEGEND

- CANOPY TO REMAIN
- CANOPY TO BE REMOVED
- BRUSH/WASTE AREA TO BE REMOVED

TOTAL LOT AREA: 2125158 SQ. FT.

BASELINE CANOPY AREA: 567418 SQ. FT. (26.7%)

CANOPY REMOVAL ALLOWANCE
(BASELINE CANOPY AREA*20%): 113483 SQ. FT.

CANOPY TO BE REMOVED: 111217 SQ. FT.

SCALE: 1"=100'

NOTE TO CONTRACTOR

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revisions:

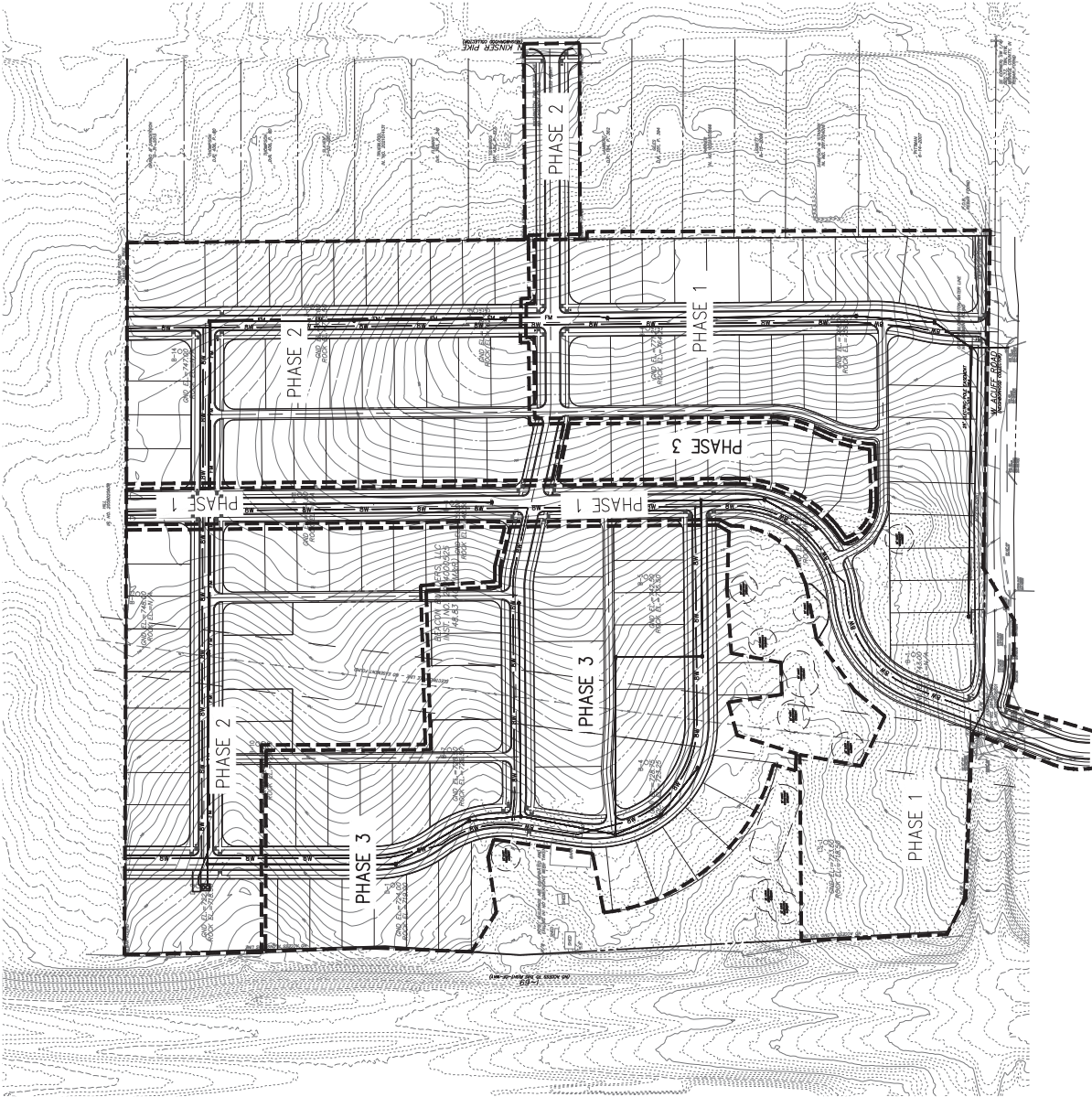
ARCHITECTURE	528 North Walnut Street
CIVIL ENGINEERING	(612) 330-8630
PLANNING	BRYNUM FAYND & ASSOCIATES, INC.
	Bloomington, Indiana
	(612) 339-2990 (fax)

certified by:

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N PROW RD, W ACUFF RD, N KINSER PIKE,
BLOOMINGTON, IN 47404

THE CANOPY EXHIBIT

designed by: DSC
drawn by: DSC
checked by: DSC
sheet no.: C-0001
project no.: 402334



SCALE: 1"=100'

NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY OTHER INFORMATION THAT MAY AFFECT THE PROJECT. ANY CHANGES TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

designed by: D.C. BROWN
drawn by: D.C. BROWN
checked by: D.C. BROWN
sheet no.: 01002
project no.: 402334

79
Title: PHASING PLAN

PROPOSED
KINSER RIDGE SUBDIVISION
N PROW RD, W ACUFF RD, N KINSER PIKE,
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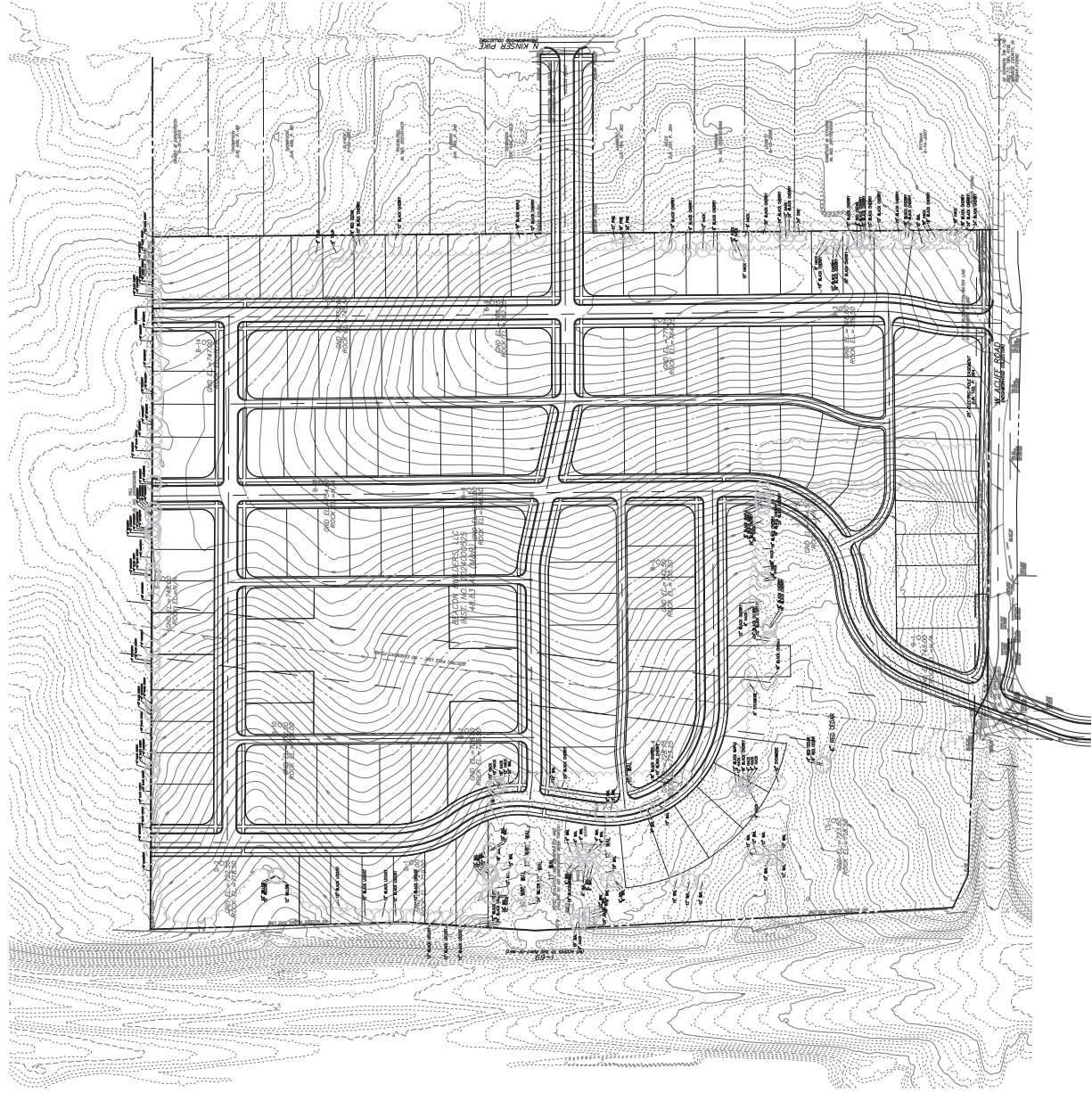
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BYNUM FAYO & ASSOCIATES, INC.

528 North Walnut Street
(612) 332-8630

ARCHITECTURE
CIVIL ENGINEERING
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Bloomington, Indiana
(612) 332-2990 (fax)

revisions:



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designed by: D&C
drawn by: D&C
checked by: D&C
sheet no.: C-0001
project no.: 402334

THE CANOPY EXHIBIT

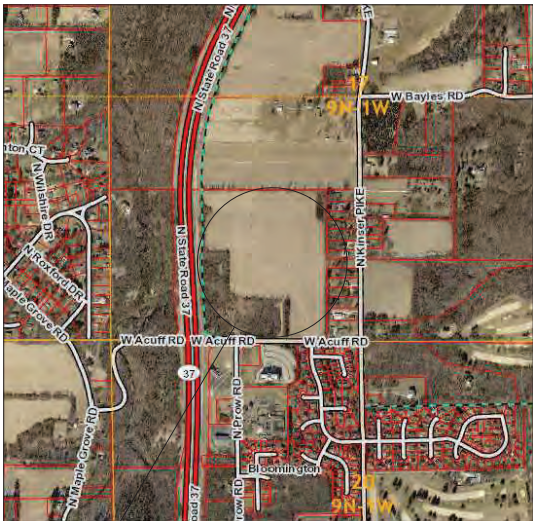
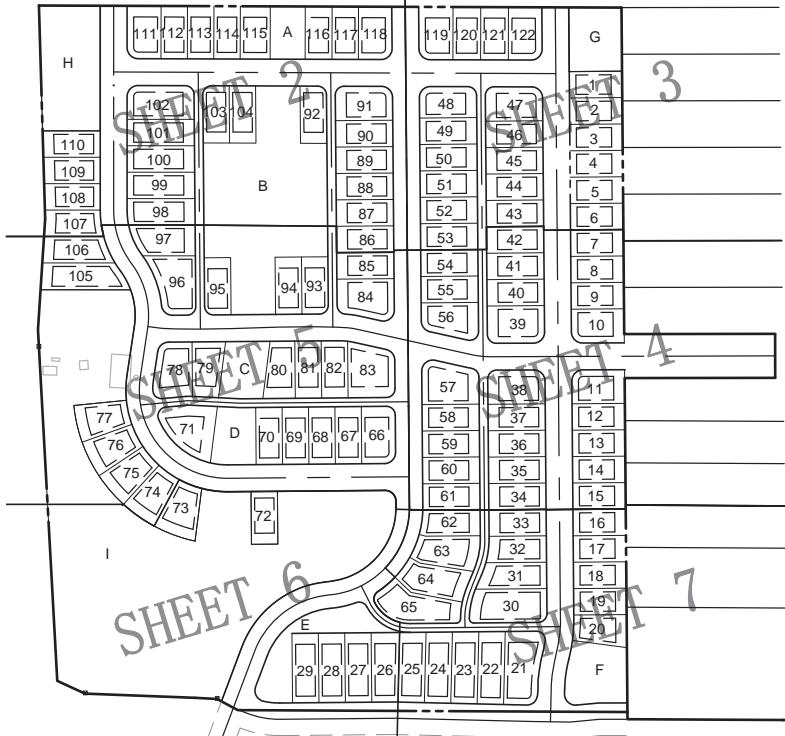
**PROPOSED
KINSER RIDGE SUBDIVISION**
N PROW RD, W ACUFF RD, N KINSER PIKE,
BLOOMINGTON, IN 47404

certified by:

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528 North Walnut Street
(612) 332-8630

ARCHITECTURE
CIVIL ENGINEERING
PLANNING
Bloomington, Indiana
(612) 332-2990 (fax)

revisions:



PROJECT
LOCATION

VICINITY MAP
(NOT TO SCALE)

OWNER/SUBDIVIDER/DEVELOPER
NAME: BEACON BUILDERS
ADDRESS: P.O. BOX 78483
INDIANAPOLIS, IN 46278
TELEPHONE: 317-258-0140

DESIGN PROFESSIONALS
NAME: BYNUM FANYO & ASSOCIATES, INC.
ADDRESS: 528 NORTH WALNUT STREET
BLOOMINGTON, INDIANA 47404
TELEPHONE: 812-332-8030

DESCRIPTION (SOURCE OF TITLE: INSTRUMENT 2024000525)

A part of the Southwest Quarter of Section 17, Township 9 North, Range 1 West, Monroe County, Indiana, described as follows: Beginning at a point which is 363.00 feet West and 16.50 feet North of the Southeast corner of the said quarter, said point being on the North right-of-way of the Park School Road; thence North for a distance of 778.35 feet; thence South 88 degrees 48 minutes 47 seconds East for a distance of 346.50 feet and to the West right-of-way of Kinser Pike; thence North over and along the West right-of-way of Kinser Pike, for a distance of 100.00 feet; thence North 88 degrees 48 minutes 47 seconds West for a distance of 741.30 feet and to an established fence line; thence Westerly over and along the said fence line by the following courses and distances: North 89 degrees 5 minutes 5 seconds West for a distance of 300.00 feet; thence North 88 degrees 54 minutes 32 seconds West for a distance of 467.87 feet; thence North 88 degrees 55 minutes 33 seconds West for a distance of 531.78 feet; thence South 86 degrees 48 minutes 48 seconds West for a distance of 239.67 feet, South 89 degrees 29 minutes 41 seconds West for a distance of 131.56 feet; thence North 87 degrees 28 minutes 18 seconds West for a distance of 633.36 feet and to an existing stone fence; said fence being the accepted boundary between Section 17 and Section 18; thence South 0 degrees 15 minutes 11 seconds East over and along the said stone fence for a distance of 1378.00 feet; thence continuing South 0 degrees 15 minutes 11 seconds East for a distance of 231.27 feet and to a stone marking the Southwest corner of said quarter; thence South 88 degrees 50 minutes 11 seconds East over and along the North right-of-way line of the Park School Road for a distance of 2296.74 feet and to the place of beginning, containing 85.242 acres, more or less.

EXCEPTING THEREFROM: A part of the Southwest Quarter of Section 17, Township 9 North, Range 1 West, Monroe County, Indiana, described as follows: Commencing at the Southwest corner of said quarter section; thence South 89 degrees 15 minutes 30 seconds East 424.25 feet along the south line of said quarter section; thence North 0 degrees 44 minutes 30 seconds East 16.50 feet to the point of beginning of this description, which point is on the north boundary of a county road (also known as the Park School Road); (1) thence North 65 degrees 34 minutes 05 seconds East 55.25 feet; (2) thence South 89 degrees 15 minutes 30 seconds East 200.00 feet; (3) thence North 32 degrees 50 minutes 30 seconds East 82.68 feet; (4) thence North 8 degrees 01 minutes 30 seconds West 386.59 feet; (5) thence North 4 degrees 41 minutes 36 seconds East 267.30 feet; (6) thence North 2 degrees 49 minutes 50 seconds West 568.50 feet; (7) thence Northerly 284.83 feet along an arc to the right and having a radius of 3,964.72 feet and subtended by a long chord having a bearing of North 0 degrees 46 minutes 21 seconds West and a length of 284.77 feet to a north line of the owners' land; (8) thence South 89 degrees 26 minutes 50 seconds East 320.03 feet along said north line; (9) thence Southerly 265.94 feet along an arc to the left and having a radius of 3,644.72 feet and subtended by a long chord having a bearing of South 0 degrees 44 minutes 25 seconds East and a length of 265.86 feet; (10) thence South 2 degrees 49 minutes 50 seconds East 218.50 feet; (11) thence South 4 degrees 00 minutes 44 seconds West 251.79 feet; (12) thence South 2 degrees 49 minutes 50 seconds East 800.00 feet; (13) thence South 65 degrees 18 minutes 35 seconds East 69.49 feet; (14) thence South 86 degrees 58 minutes 04 seconds East 250.20 feet; (15) thence South 89 degrees 15 minutes 30 seconds East 50.00 feet; (16) thence South 64 degrees 05 minutes 05 seconds East 55.25 feet to the north boundary of said County Road (also known as the Park School Road); (17) thence North 89 degrees 15 minutes 30 seconds West 1,000.00 feet along said north boundary to the point of beginning and containing 11.775 acres, more or less.

EXCEPTING THEREFROM:

24.54 acres lying west of State Road 37 all in a part of the Southwest Quarter of Section 17, Township 9 North, Range 1 West, and being more particularly described as follows:

Commencing at a rebar found at the Southeast corner of the Southwest Quarter of said Section; thence along the south line of said Section the following two (2) courses: 1) NORTH 88 degrees 57 minutes 35 seconds West 1327.81 feet to a 5/8 inch rebar found; thence NORTH 88 degrees 47 minutes 39 seconds West 1341.98 feet to a stone found at the Southwest corner of the Southwest Quarter of said Section and also being the Point of Beginning; thence NORTH 00 degrees 44 minutes 47 seconds East along the west line of Section 17 1609.27 feet to a 5/8 inch rebar with cap; thence SOUTH 89 degrees 03 minutes 31 seconds East 646.16 feet to a 5/8 inch rebar with cap set on the west right-of-way of State Road 37; thence along said west right-of-way the following seven (7) courses: 1) 286.34 feet along a 3964.71 foot non-tangent curve to the left whose chord bears SOUTH 00 degree 20 minutes 14 seconds East 286.27 feet to a 5/8 inch rebar with cap; thence 2) SOUTH 02 degrees 24 minutes 00 seconds East 568.52 feet to a 5/8 inch rebar with cap; thence 3) SOUTH 05 degrees 07 minutes 26 seconds West 267.30 feet to a 5/8 inch rebar with cap; thence 4) SOUTH 07 degrees 46 minutes 31 seconds East 385.81 feet to a post; thence 5) SOUTH 33 degrees 19 minutes 16 seconds West 83.48 feet to a post; thence 6) NORTH 89 degrees 12 minutes 46 seconds West 200.14 feet to a concrete right-of-way marker; thence 7) SOUTH 65 degrees 21 minutes 34 seconds West 55.96 feet to a concrete right-of-way marker found on the north right-of-way of Acuff Road; thence the following two (2) courses along said right-of-way: 1) NORTH 88 degrees 18 minutes 11 seconds West 211.11 feet to a 5/8 inch rebar with cap; thence 42.70 feet along a 326.24 foot radius non-tangent curve to the left whose chord bears SOUTH 69 degrees 00 minutes 10 seconds West 42.67 feet to a 5/8 inch rebar set on the south line of Section 17; thence NORTH 88 degrees 47 minutes 39 seconds West along said south line 173.18 feet to the POINT OF BEGINNING, containing 24.54 acres, more or less.

The above-described tract of real estate and exceptions therefrom having been surveyed by Todd M. Borman, Indiana Registered Land Surveyor Number LS21200021, dated February 25, 2019, recorded August 23, 2019, as Instrument Number 2019012164, in the office of the Recorder of Monroe County, Indiana, are now more particularly described as follows:

A part of the Southwest Quarter of Section 17, Township 9 North, Range 1 West in Monroe County, Indiana, and being more particularly described as follows:

COMMENCING at a rebar found at the southeast corner of the Southeast Quarter of said Section; thence NORTH 88 degrees 57 minutes 35 seconds West along the south line of said Section 363.04 feet; thence NORTH 00 degrees 15 minutes 16 seconds West 16.33 feet to a 5/8" rebar with cap set on the north right-of-way of Acuff Road at the Point of Beginning; thence NORTH 88 degrees 59 minutes 10 seconds West along the north right-of-way of Acuff Road 885.48 feet to a concrete right-of-way marker found; thence the following seven (7) courses along the east right-of-way of State Road 37: 1) NORTH 61 degrees 03 minutes 06 seconds West 53.77 feet to a right-of-way marker found; thence 2) NORTH 86 degrees 21 minutes 56 seconds West 50.29 feet to a right-of-way marker found; thence 3) NORTH 87 degrees 04 minutes 05 seconds West 249.89 feet; thence 4) NORTH 64 degrees 30 minutes 36 seconds West 69.45 feet to a post; thence 5) NORTH 02 degrees 24 minutes 00 seconds West 799.56 feet; thence 6) NORTH 04 degrees 26 minutes 34 seconds East 251.79 feet to a 5/8" rebar with cap; thence 7) NORTH 00 degrees 55 minutes 31 seconds West 485.25 feet to a 5/8" rebar with cap; thence leaving said east right-of-way South 89 degrees 03 minutes 31 seconds East 1323.93 feet to a 5/8" rebar with cap; thence SOUTH 00 degrees 15 minutes 16 seconds West 742.00 feet to a 5/8" rebar with cap; thence NORTH 89 degrees 17 minutes 20 seconds East 342.85 feet to a 5/8" rebar with cap set on the west right-of-way of Kinser Pike; thence SOUTH 00 degrees 34 minutes 12 seconds West along said west right-of-way 100.00 feet to a 5/8" rebar with cap; thence SOUTH 89 degrees 20 minutes 17 seconds West 342.30 feet to a 5/8" rebar with cap; thence SOUTH 00 degrees 15 minutes 16 seconds West 758.90 feet to the POINT OF BEGINNING, containing 48.83 acres, more or less.

ALSO CONVEYING: An easement in and to the following described real estate, to-wit: A part of the Southwest Quarter of Section 17, Township 9 North, Range 1 West, Monroe County, Indiana, described as follows: Commencing at the southwest corner of said quarter section; thence South 89 degrees 15 minutes 30 seconds East 424.25 feet along the south line of said quarter section; thence North 0 degrees 44 minutes 30 seconds East 16.50 feet to the north boundary of a County Road (also known as the Park School Road); thence South 89 degrees 15 minutes 30 seconds East 200.00 feet along said north boundary; thence North 64 degrees 05 minutes 05 seconds West 55.25 feet; thence North 89 degrees 15 minutes 30 seconds West 50.00 feet; thence North 86 degrees 58 minutes 04 seconds West 250.20 feet; thence North 65 degrees 18 minutes 35 seconds West 69.49 feet; thence North 2 degrees 49 minutes 50 seconds West 800.00 feet to the point of beginning of this description; thence North 2 degrees 49 minutes 50 seconds West 90.00 feet; thence South 71 degrees 01 minute 45 seconds East 28.93 feet; thence South 49 minutes 50 seconds West 25.00 feet to the point of beginning and containing 0.049 acres, more or less, for the purpose of the removal of a building which encroaches upon the lands herein conveyed in fee simple, which easement will revert to the grantors upon the completion of said building removal and the legal release of this easement in the office of the Recorder of the aforesaid County.

ALSO CONVEYING: An easement in and to the following described real estate, to-wit: A part of the Southwest Quarter of Section 17, Township 9 North, Range 1 West, Monroe County, Indiana, described as follows: Commencing at the Southwest corner of said quarter section; thence South 89 degrees 15 minutes 30 seconds East 424.25 feet along the south line of said quarter section; thence North 0 degrees 44 minutes 30 seconds East 16.50 feet to the north boundary of a County Road (also known as the Park School Road); thence North 65 degrees 34 minutes 05 seconds East 55.25 feet; thence South 89 degrees 15 minutes 30 seconds East 20.00 feet; thence North 89 degrees 15 minutes 30 seconds West 50.00 feet to the point of beginning and containing 0.029 acres, more or less, for the purpose of constructing a driveway for service to the grantors private property, which easement will revert to the grantors upon the completion of the above designated project.

SETBACK TABLE		
R2 (RESIDENTIAL MEDIUM LOT)		
FRONT YARD SETBACK	SIDE YARD SETBACK	REAR YARD SETBACK
15' FROM R-O-W	8'	25'
25' FROM R-O-W (FRONT LOADING GARAGE OR CARPORT)	10' FOR EACH STORY ABOVE GROUND FLOOR	



Prepared by:

Charles D. Graham
Registration No. LS29500014
I affirm under penalties of perjury, that I have taken reasonable care to redact each social security number in this document, unless required by law.

KINSER RIDGE SUBDIVISION
Part of SW 1/4, Section 17, Township 9 North, Range 1 West

BFB
BYNUM FANYO & ASSOCIATES, INC.
528 North Walnut Street
Bloomington, Indiana 47404
Phone (812)332-8030 Fax (812)339-2990

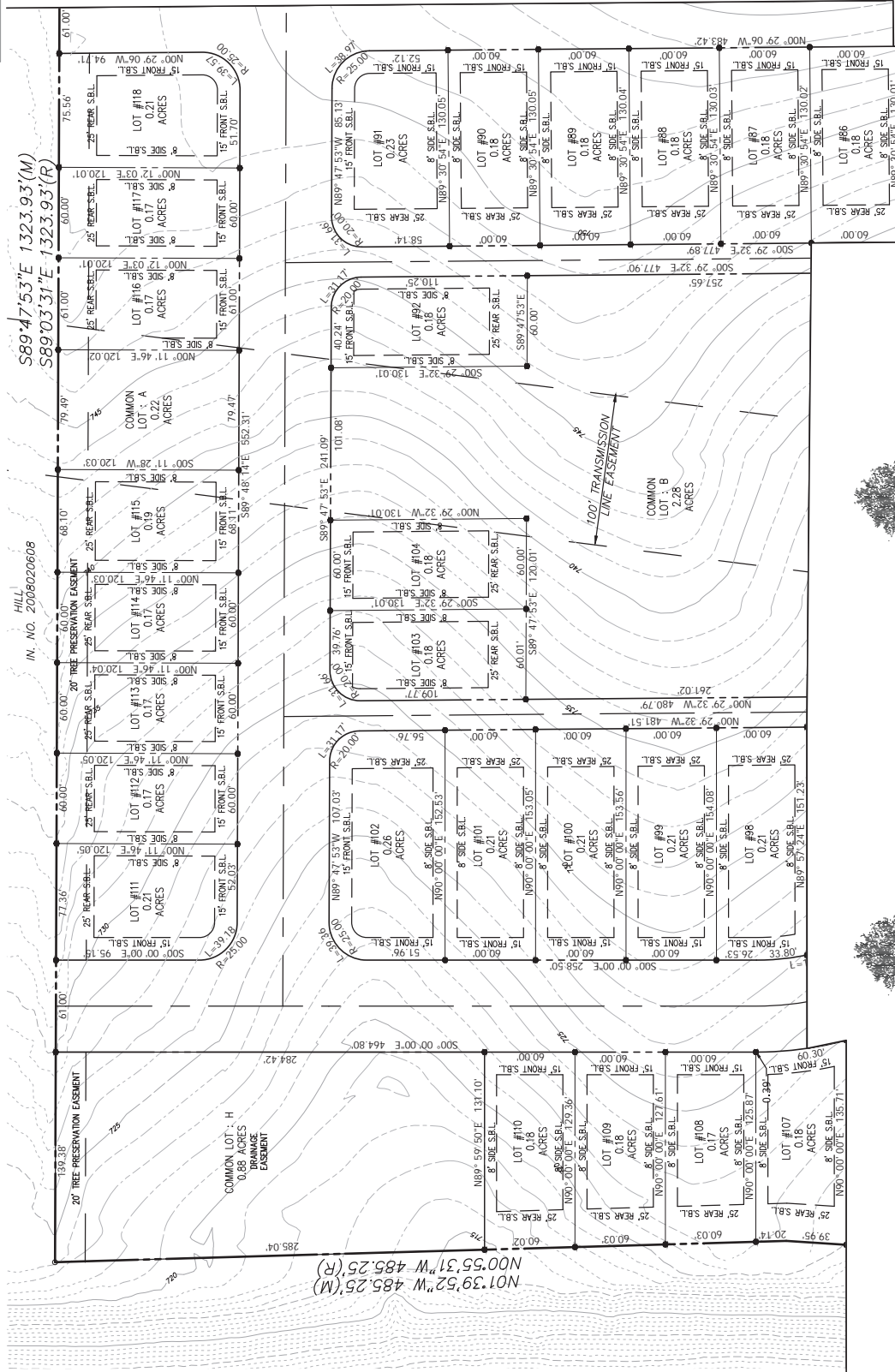
KINSER RIDGE

PRELIMINARY PLAT

RECORDER
STAMP



50' 0' 50' 0' 50' 0'
SCALE 1" = 50' 0"
BEARINGS BASED ON SPCS IN WEST NAD 83

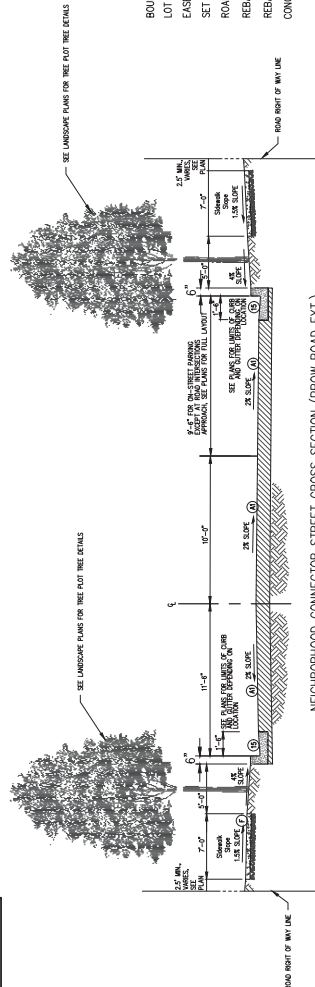


SETBACK TABLE

R2 (RESIDENTIAL MEDIUM LOT)			
FRONT YARD SETBACK	SIDE YARD SETBACK	REAR YARD SETBACK	
15' FROM R-O-W	8'	25'	
25' FROM R-O-W (FRONT LOADING GARAGE OR CARPORT)	10' FOR EACH STORY ABOVE GROUND FLOOR		

LEGEND

- BOUNDARY LINE
- LOT LINE
- EASEMENT LINE
- SET BACK LINE
- ROAD CENTERLINE
- REAR SET "BPA 950001"
- REAR FOUND
- CONCRETE 8" W MARKER FOUND



KINSER RIDGE SUBDIVISION

Part of SW 1/4, Section 17, Township 9 North, Range 1 West



BYNUM FANYO & ASSOCIATES, INC.
528 North Walnut Street
Lawrence, KS 66044
Phone (816)332-8030 Fax (816)339-2990



NORTH
SCALE 1" = 50.0'
BEARINGS BASED ON SPCS IN WEST, NAD 83

KINSER RIDGE

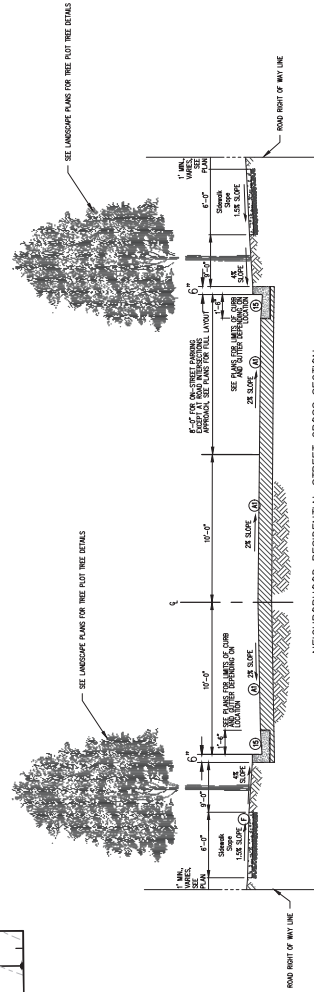
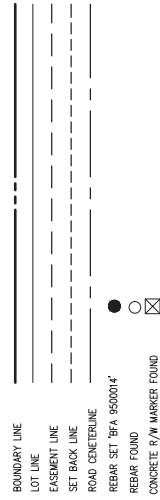
PRELIMINARY PLAT

RECORDER
STAMP



SETBACK TABLE			
R2 (RESIDENTIAL MEDIUM LOT)			
FRONT YARD SETBACK	SIDE YARD SETBACK	REAR YARD SETBACK	
15' FROM R-O-W	8'	25'	
25' FROM R-O-W (FRONT LOADING GARAGE OR CARPORT)	10' FOR EACH STORY ABOVE GROUND FLOOR		

LEGEND



NEIGHBORHOOD RESIDENTIAL STREET CROSS SECTION

KINSER RIDGE SUBDIVISION

Part of SW 1/4, Section 17, Township 9 North, Range 1 West



BYNUM FANYO & ASSOCIATES, INC.
528 North Walnut Street
Suite 104
Phone (812)332-8030 Fax (812)339-2990



50
0
50
SCALE 1" = 50' ft
BEARINGS BASED ON SPCS IN WEST AND 83



SETBACK TABLE			
R2 (RESIDENTIAL MEDIUM LOT)			
FRONT YARD SETBACK	SIDE YARD SETBACK	REAR YARD SETBACK	
15' FROM R-O-W	8'	25'	
25' FROM R-O-W	10' FOR EACH STORY ABOVE GROUND FLOOR		

BOUNDARY LINE	---
LOT LINE	---
EASEMENT LINE	---
SET BACK LINE	---
ROAD CENTERLINE	---
REBAR SET BFA 950014"	●
REBAR FOUND	○
CONCRETE R/W MARKER FOUND	⊗

LEGEND

EASEMENT DEFINITIONS:
Sanitary Sewer Easement:
Shall allow the City Utilities Department exclusive access for installation, maintenance, encroachment by other utilities is prohibited, unless such encroachment is approved by the City Utilities Department in conjunction with the primary plat. Upon written permission of the City Utilities Department, encroachments may be permitted after the recording of the plat. This easement shall not be used for any other purpose, including, but not limited to, buildings, fences, retaining walls, and light fixtures, shall not be located within sanitary sewer easements. Encroachment of any kind shall be prohibited within the easement area. Any encroachment shall be removed at the expense of the person from the City Utilities Department.

Damage Easement:
Shall be required for any surface waters or other minor drainage improvements that are intended to serve the lots on which they are located.
Shall prohibit any alteration or structure within the easement that would hinder or redirect the flow of water.
Shall provide that the owner of the lot on which the easement is placed shall be responsible for maintenance of the drainage features within such easement.
Shall be enforceable by the City Utilities Department and by owners of properties that are adjacent to the easement.
Shall allow the City Utilities Department to enter upon the easement for the purpose of maintenance, to change the costs of such maintenance to the responsible parties, to construct or reconstruct the easement, and to assume responsibility for the drainage features at its discretion.

Marl Containment Easement:
Prohibits any land-disturbing activities, including the placement of a fence, within the easement area. Mowing is allowed within the easement area.
Allows the removal of dead or diseased trees that pose a safety risk or impede drainage within the easement area. The removal of trees shall be approved by the City Utilities Department after first obtaining written approval from the Planning and Transportation Department.
Grants the city the right to enter the property to inspect the easement and alter or remove any trees.
All trees within the easement shall be identified with public signs located along the boundary of the easement. Public signs shall be placed at intervals of no more than 200 feet, and each public sign shall be a maximum of one and one-half square feet in area. The signs shall be placed at intervals of no more than 200 feet. The property owner shall be responsible for installing and maintaining required signage. Any use of pesticides, herbicides, or fertilizers is prohibited within the easement area.
Allows, in cases where removal of exotic or invasive species is proposed, the restoration of disturbed areas with native plant material. Written approval from the Planning and Transportation Department is required prior to any proposed restoration.

Tree Preservation Easement:
Prohibits the removal of any tree over six inches dbh within the easement area.
Allows the removal of dead or diseased trees that pose a safety risk as well as allowing the removal of exotic or invasive species, only after first obtaining written approval from the Planning and Transportation Department.
All tree preservation easements shall be identified with public signs located along the boundary of the easement. Public signs shall be placed at intervals of no more than 200 feet. A minimum of one public sign shall be a maximum of one and one-half square feet in area. The property owner shall be responsible for installing and maintaining required signage. The restoration of disturbed areas with native plant material is proposed. The restoration of disturbed areas with native plant material. Written approval from the Planning and Transportation Department is required prior to any proposed restoration.

Other Easements:
Other easements may be required by the Plan Commission to preserve features or functions unique to a given property and shall be defined on the recorded plat.

KINSER RIDGE SUBDIVISION

Part of SW 1/4, Section 17, Township 9 North, Range 1 West



BYNUM FANYO & ASSOCIATES, INC.
528 North Walnut Street
Tulsa, Oklahoma 74104
Phone (812)332-8030 Fax (812)339-2990

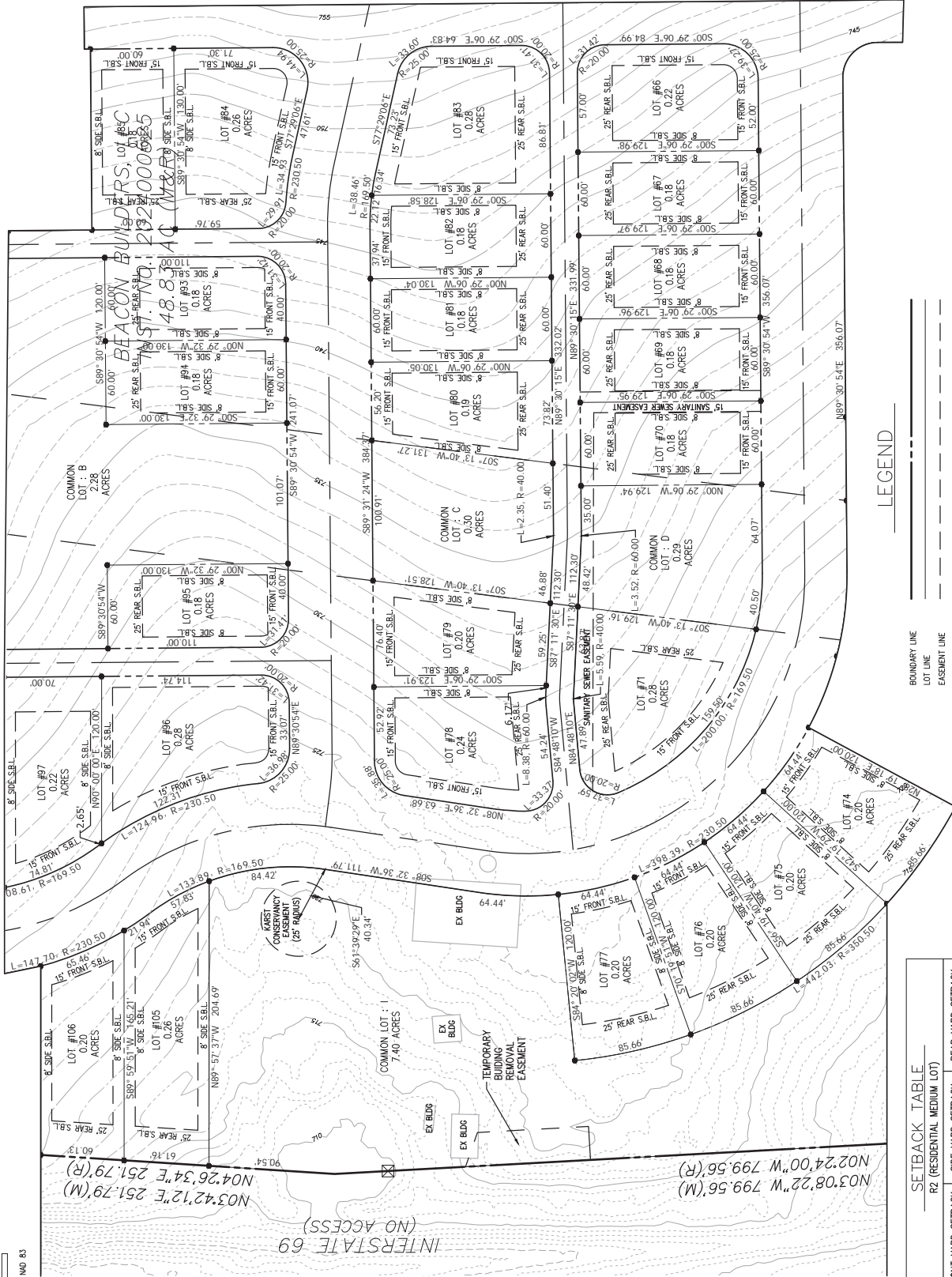


BEARINGS BASED ON SPCS IN WEST ZONE 83

KINSER RIDGE

PRELIMINARY PLAT

RECORDER
STAMP



SETBACK TABLE			
R2 (RESIDENTIAL MEDIUM LOT)			
FRONT YARD SETBACK	SIDE YARD SETBACK	REAR YARD SETBACK	
15' FROM R-O-W	8'	25'	
25' FROM R-O-W (FRONT LOADING GARAGE OR CARPORT)	10' FOR EACH STORY ABOVE GROUND FLOOR		

KINSER RIDGE SUBDIVISION
Part of SW 1/4, Section 17, Township 9 North, Range 1 West

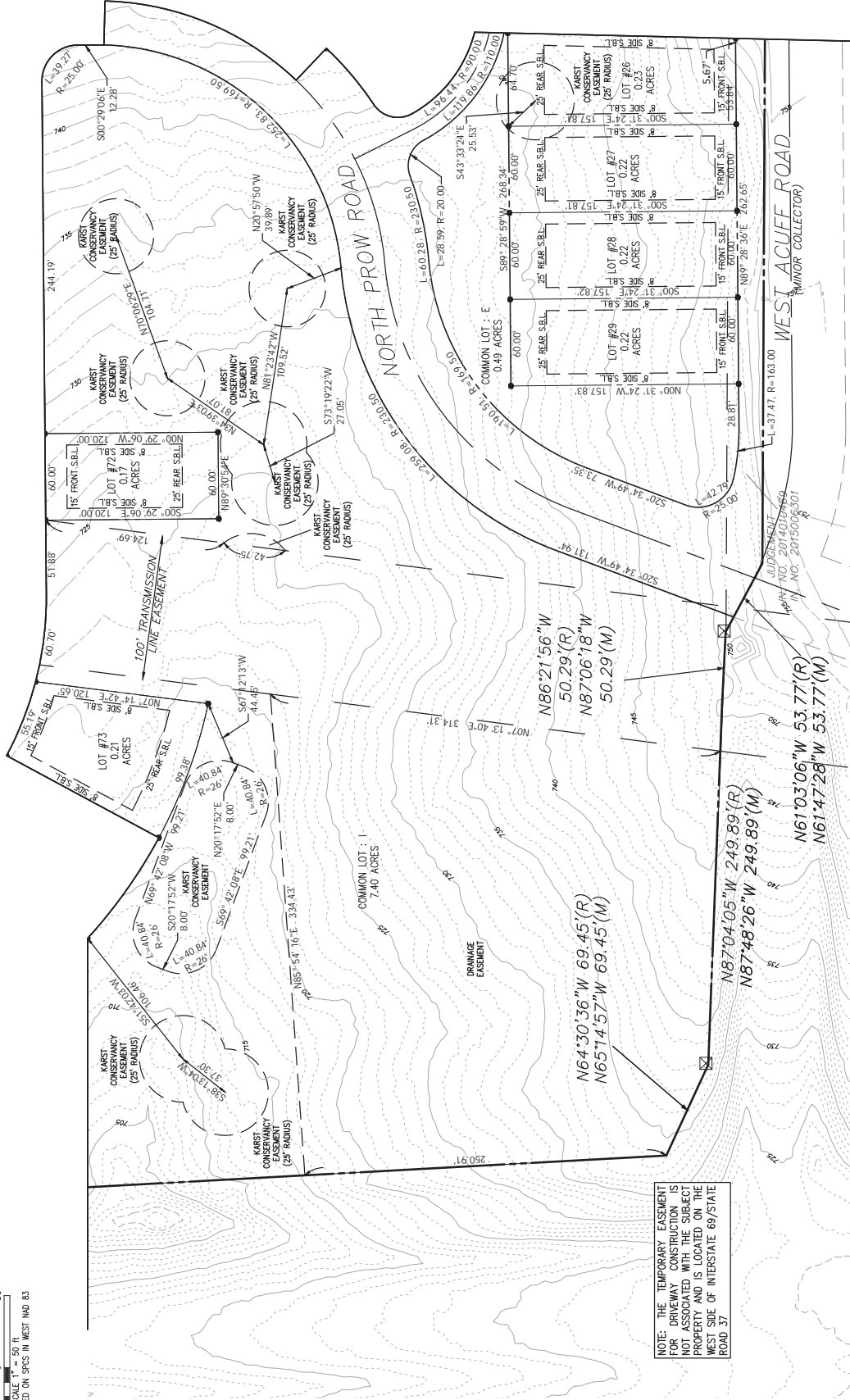


SCALE 1" = 50 FT
BEGINNINGS BASED ON SPCS IN WEST NAD 83

KINSER RIDGE

PRELIMINARY PLAT

RECORDER
STAMP



NOTE: THE TEMPORARY EASEMENT FOR DRIVEWAY CONSTRUCTION IS NOT ASSOCIATED WITH THE SUBJECT PROPERTY AND IS LOCATED ON THE WEST SIDE OF INTERSTATE 69/STATE ROAD 37

SETBACK TABLE			
R2 (RESIDENTIAL MEDIUM LOT)			
FRONT YARD SETBACK	SIDE YARD SETBACK	REAR YARD SETBACK	
15' FROM R-O-W	8'	25'	
25' FROM R-O-W (FRONT LOADING GARAGE OR CARPORT)	10' FOR EACH STORY ABOVE GROUND FLOOR		

- LEGEND
- BOUNDARY LINE
 - LOT LINE
 - EASEMENT LINE
 - SET BACK LINE
 - ROAD CENTERLINE
 - REAR SET "BFA 9500014"
 - REBAR FOUND
 - CONCRETE R/W MARKER FOUND

KINSER RIDGE SUBDIVISION
Part of SW 1/4, Section 17, Township 9 North, Range 1 West

KINSER RIDGE

PRELIMINARY PLAT

RECORDER
STAMP

OWNER CERTIFICATION:

THE UNDERSIGNED, BEACON BUILDERS, LLC, BEING THE OWNER OF THE ABOVE DESCRIBED REAL ESTATE HEREBY CERTIFIES THAT THIS PLAT WAS SUBMITTED TO THE CITY OF BLOOMINGTON, INDIANA, FOR REVIEW AND APPROVAL. THIS PLAT SHALL BE KNOWN AND DESIGNATED AS BAXTER VILLAGE.

ALL ADDITIONAL ROAD RIGHT-OF-WAYS SHOWN AND NOT PREVIOUSLY DEDICATED ARE HEREBY DEDICATED TO THE PUBLIC.

IN WITNESS WHEREOF, BEACON BUILDERS, LLC HAS HEREUNTO EXECUTED THIS _____ DAY OF _____, 20____.

BY: _____
NAME & TITLE

NOTARY CERTIFICATION:

BEFORE ME, A NOTARY PUBLIC IN AND FOR THE STATE OF INDIANA AND MONROE COUNTY, PERSONALLY APPEARED _____, AGENT OF BEACON BUILDERS, LLC, BEING THE OWNER OF THE DESCRIBED REAL ESTATE, WHOSE NAME AND ADDRESS ARE SET FORTH IN THE FOREWORD OF THIS REAL ESTATE KNOWN AS KINSER RIDGE SUBDIVISION, AS HIS VOLUNTARY ACT AND DEED FOR THE USES AND PURPOSES THEREIN EXPRESSED.

WITNESS MY HAND AND NOTARIAL SEAL THIS _____ DAY OF _____, 20____.

COUNTY OF RESIDENCE: _____

MY COMMISSION EXPIRES: _____

NOTARY PUBLIC

SETBACK TABLE

R2 (RESIDENTIAL MEDIUM LOT)

FRONT YARD SETBACK	SIDE YARD SETBACK	REAR YARD SETBACK
15' FROM R-0-W	8'	25'
25' FROM R-0-W (FRONT LOADING GARAGE OR CARPORT)	10' FOR EACH STORY ABOVE GROUND FLOOR	

EASEMENT NOTES:

DRAINAGE EASEMENT

1. Shall be required for any surface swales or other minor drainage improvements that are intended to serve the lots on which they are located.
2. Shall prohibit any alteration within the easement that would hinder or redirect flow.
3. Shall provide that the owner of the lot on which the easement is located shall be responsible for maintenance of the drainage features within such easement.
4. Shall be enforceable by the City Utilities Department and by owners of properties that are adversely affected by conditions within the easement.
5. Shall allow the City Utilities Department to enter upon the easement for the purpose of maintenance, to charge the costs of such maintenance to the responsible parties, to construct drainage facilities within the easement, and to assume responsibility for the drainage features at its discretion.

UTILITY EASEMENT

1. Shall allow both private and public utility providers access associated with the installation, maintenance, repair, or utility of electric, gas, water, or sewer lines.
2. Prohibits the placement of any unauthorized obstruction within the easement area unless authorized by the City Utilities Department and the easement holder(s).

FOR SURVEYOR'S REPORT PLEASE REFER TO RETRACEMENT SURVEY RECORDED AT INSTRUMENT 2024007657 IN THE OFFICE OF THE RECORDER OF MONROE COUNTY, INDIANA

FLOOD NOTE: According to FEMA Flood Insurance Rate Map (FIRM) this real estate is part of Community-Panel Number: 18105C 01330, Effective Date: December 17, 2010. This property is located in Zone X, an area of minimal flood hazard.

SURVEYOR'S CERTIFICATE:

THIS SURVEY WAS PERFORMED UNDER THE DIRECTION OF THE UNDERSIGNED, AND TO THE BEST OF THIS SURVEYOR'S KNOWLEDGE AND BELIEF WAS EXECUTED ACCORDING TO SURVEY REQUIREMENTS IN 865 IAC 12-2-2 FOR THE STATE OF INDIANA.

DATED THIS _____ DAY OF _____, 20____.

Prepared by:

Charles D. Graham
Registration No. LS29500014
I affirm under penalties of perjury that I have taken reasonable care to reduce each social security number in this document, unless required by law.



KINSER RIDGE SUBDIVISION

Part of SW 1/4, Section 17, Township 9 North, Range 1 West



BYNUM FANYO & ASSOCIATES, INC.
528 North Walnut Street
Bloomington, Indiana 47404
Phone (812)332-8030 Fax (812)339-2990

DIRECTOR OF PLANNING AND TRANSPORTATION

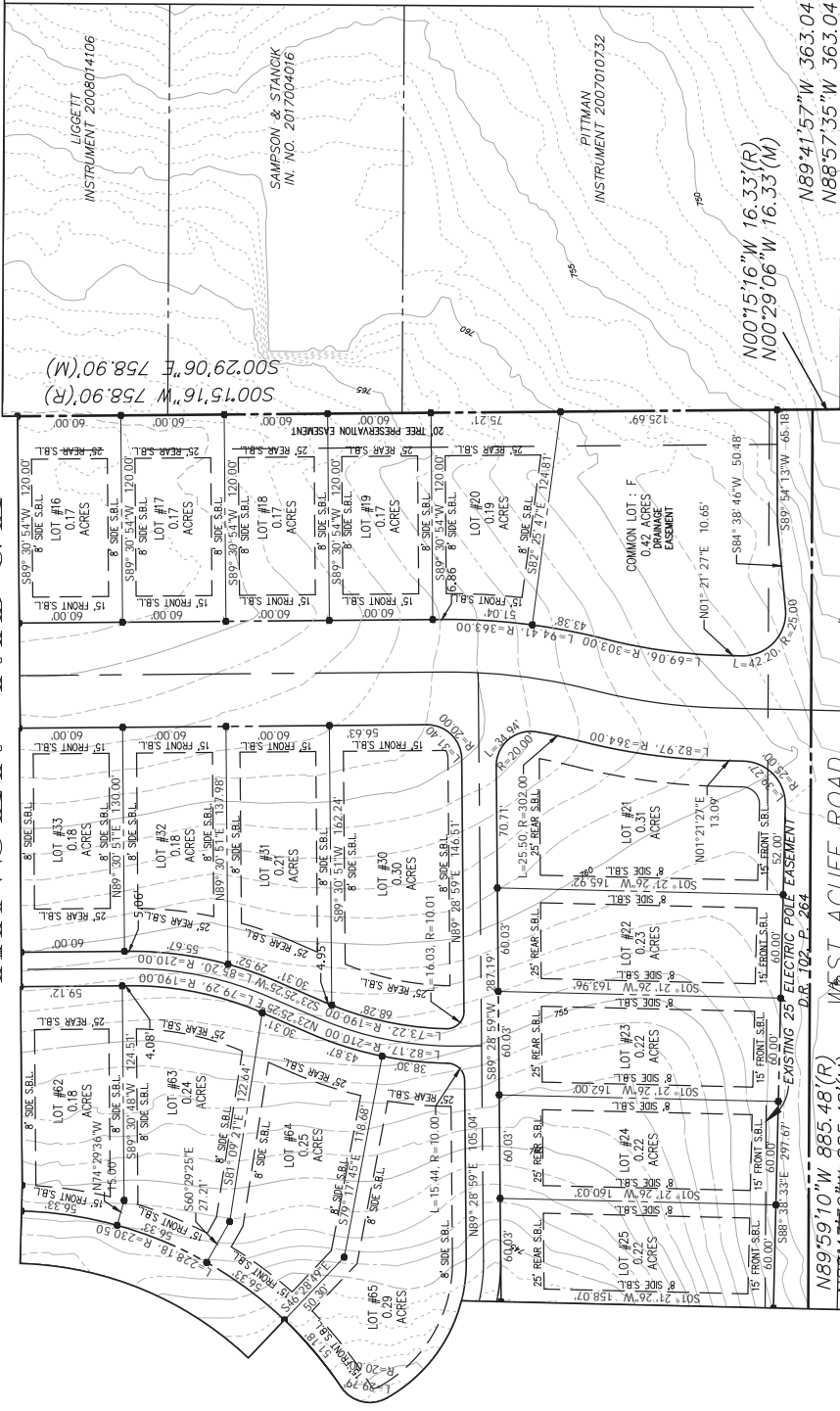
APPROVED BY THE CITY PLAN COMMISSION AT A MEETING HELD:

CERTIFICATE OF APPROVAL OF PLAN COMMISSION

UNDER THE AUTHORITY OF INDIANA CODE 36-7-4-700 SERIES, ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF INDIANA AND ORDINANCE ADOPTED BY THE COMMON COUNCIL OF THE CITY OF BLOOMINGTON, INDIANA, THIS PLAT WAS GIVEN APPROVAL BY THE CITY OF BLOOMINGTON AS FOLLOWS:

LEGEND

- BOUNDARY LINE
- LOT LINE
- EASEMENT LINE
- SET BACK LINE
- ROAD CENTERLINE
- REBAR SET "B" 9500014"
- PLSS CORNER
- REBAR FOUND
- CONCRETE R/W MARKER FOUND





TRAFFIC IMPACT STUDY

PROPOSED RESIDENTIAL DEVELOPMENT

“KINSER RIDGE”

BLOOMINGTON, INDIANA

PREPARED FOR



JULY 2024

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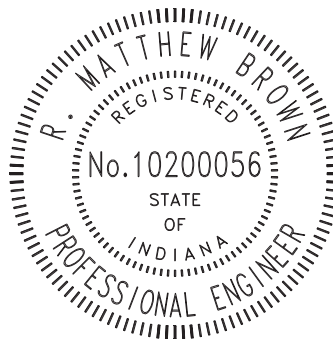
CERTIFICATION

I certify that this **TRAFFIC IMPACT STUDY** has been prepared by me and under my immediate supervision and that I have experience and training in the field of traffic and transportation engineering.

A&F ENGINEERING CO., LLC



July 08, 2024
R. Matt Brown, P.E.
Indiana Registration 10200056



Trevor Reich, E.I.
Senior Traffic Engineer



Sri Gayatri Kesara
Traffic Engineer Technician

INTRODUCTION

This **TRAFFIC IMPACT STUDY**, prepared on behalf of Beacon Builders, is for a proposed residential development known as “Kinser Ridge” that will be located north of Acuff Road and west of Kinser Pike in Bloomington, Indiana.

PURPOSE

The purpose of this analysis is to determine what impact the traffic generated by the proposed development will have on the existing adjacent roadway system. This analysis will identify any existing roadway deficiencies or ones that may occur when this site is developed.

Conclusions will be reached that will determine if the roadway system can accommodate the anticipated traffic volumes or will determine the modifications that will be required to the system if there are identified deficiencies.

Recommendations will be made that will address the conclusions resulting from this analysis. These recommendations will address feasible roadway system improvements to provide safe ingress and egress, to and from the proposed development, with minimal interference to traffic on the public street system.

SCOPE OF WORK

The scope of work for this analysis is as follows:

First, obtain turning movement traffic volume counts between the hours of 6:00 A.M. to 9:00 A.M. and 3:30 P.M. to 6:30 P.M. during a typical weekday in May 2024 at the following intersections:

- Acuff Road & Kinser Pike
- Prow Road & Arlington Road
- Kinser Pike & SR 45

Second, conduct a 24-hour weekday traffic count along Prow Road, south of Acuff Road.

Third, estimate the year 2029 background traffic volumes by applying a 1% per year growth rate to the existing traffic volumes.

Fourth, estimate the number of peak hour and 24-hour weekday trips that will be generated by the proposed development.

Fifth, assign and distribute the generated traffic volumes from the proposed development to the study intersections.

Sixth, prepare a capacity analysis, level of service analysis, and turn lane analysis at the study intersections for each of the following scenarios:

Scenario 1: Existing Traffic Volumes – Based on existing peak hour traffic volumes.

Scenario 2: Year 2029 Background Traffic Volumes – Based on applying a 1.0% per year annual growth rate to the existing traffic volumes.

Scenario 3: Year 2029 Proposed Development Traffic Volumes – Based on the sum of year 2029 background traffic volumes and generated traffic volumes from the proposed development.

Seventh, conduct an all-way stop warrant analysis at the intersection of Prow Road and Acuff Road based on the traffic volumes in *Scenario 3*.

Eighth, prepare recommendations for the roadway geometrics that will be needed to accommodate the total traffic volumes once the proposed development is constructed.

Finally, prepare a **TRAFFIC IMPACT STUDY** report documenting all data, analyses, conclusions and recommendations to provide for the safe and efficient movement of traffic through the study area.

DESCRIPTION OF THE PROPOSED DEVELOPMENT

The subject site is located north of Acuff Road and west of Kinser Pike in Bloomington, Indiana.

As proposed, the development will consist of 124 single-family homes that will be served by a full access drive along Kinser Pike and a full access drive along Acuff Road. As part of the proposed development, Prow Road will be extended north of Acuff Road through the development to create “T” intersection with Acuff Road. In addition, it should be noted that 5 homes will have direct access to Acuff Road. **Figure 1** is an area map showing the location and general layout of the site.

STUDY AREA

The study area for this analysis has been defined to include the following intersections:

- Acuff Road & Kinser Pike
- Prow Road & Arlington Road
- Kinser Pike & SR 45
- Acuff Road & Prow Road
- Kinser Pike & Proposed Access Drive
- Acuff Road & Proposed Access Drive

Figure 2 shows the existing intersection geometrics at the existing study intersections.



FIGURE 1
AREA MAP

**TRAFFIC IMPACT STUDY
 KINSEY RIDGE SUBDIVISION
 BLOOMINGTON, INDIANA**



ACUFF RD & KINSER PIKE



PROW RD & ARLINGTON RD



KINSER PIKE & SR 45

FIGURE 2
EXISTING INTERSECTION
GEOMETRICS

TRAFFIC IMPACT STUDY
KINSER RIDGE SUBDIVISION
BLOOMINGTON, INDIANA

DESCRIPTION OF ABUTTING STREET SYSTEM

The proposed development will be primarily served by the public roadway system that includes Kinser Pike, Acuff Road, Prow Road, Arlington Road, and SR 45.

TABLE 1 – DESCRIPTION OF THE ABUTTING STREET SYSTEM

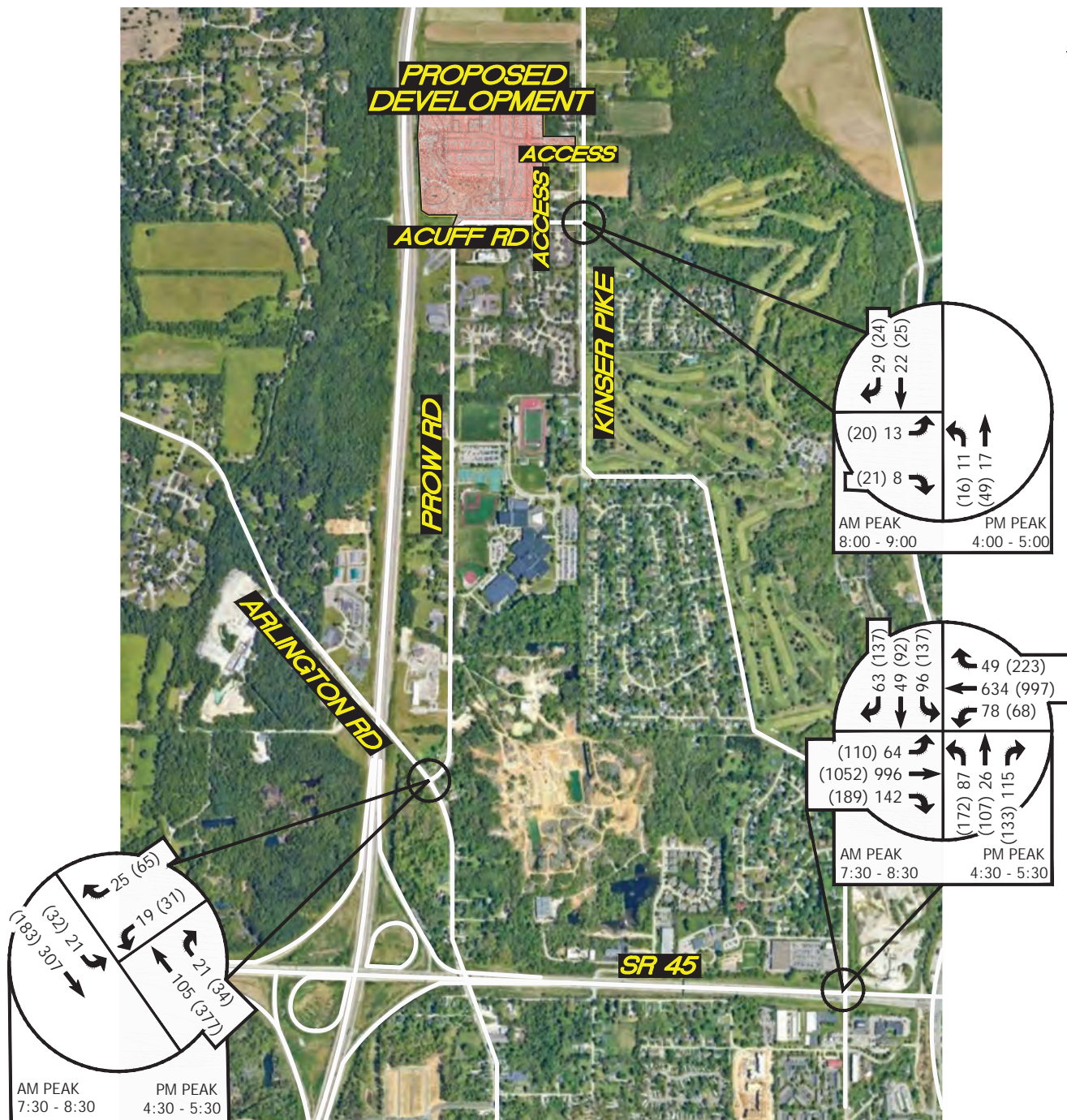
STREET NAME	NUMBER OF LANES	SPEED LIMIT (MPH)	FUNCTIONAL CLASSIFICATION
Kinser Pike	2	30	Secondary Arterial
Acuff Road	2	30	Local Road
Prow Road	2	30	Local Road
Arlington Road	2	40	Secondary Arterial
SR 45	4	50	Primary Arterial

EXISTING TRAFFIC VOLUMES & PEAK HOURS

Turning movement traffic volume counts were collected by A&F Engineering at the study intersections between the hours of 6:00 AM to 9:00 AM and 3:30 PM to 6:30 PM during a typical weekday in May 2024 under good weather conditions. According to the turning movement counts, the AM and PM peak hours vary slightly at each study intersection. Hence, the actual peak hours are used at each study intersection to create a “worse-case” traffic volume scenario. Additionally, 24-hour weekday traffic volumes counts were collected along Prow Road just to south of Acuff Road. The count output summary sheets are included in the **Appendix** and the peak hour volumes are shown on **Figure 3**.

YEAR 2029 BACKGROUND TRAFFIC VOLUMES

In order to account for growth in background traffic volumes due to future development outside of the study area, the existing traffic volumes were grown by 1.0% per year for 5 years. Therefore, a growth rate factor of 1.05 was applied to the existing traffic volumes to yield the year 2029 background traffic volumes that are shown in **Figure 4**.

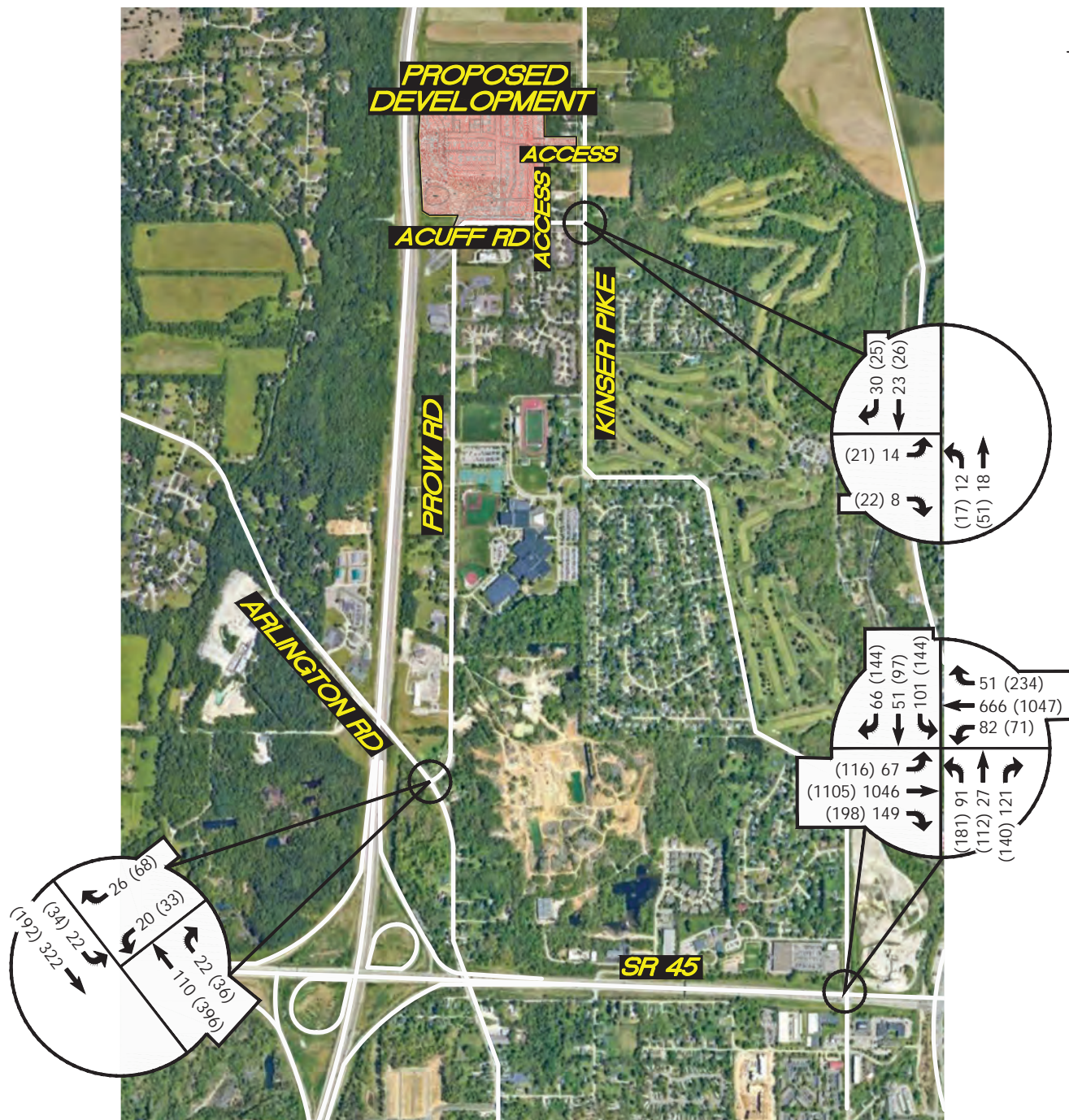


LEGEND

XX = A.M. PEAK HOUR
(XX) = P.M. PEAK HOUR
* = NEGLIGIBLE

TRAFFIC IMPACT STUDY KINSER RIDGE SUBDIVISION BLOOMINGTON, INDIANA

FIGURE 3
EXISTING TRAFFIC VOLUMES



GENERATED TRAFFIC VOLUMES FOR PROPOSED DEVELOPMENT

The estimate of newly generated traffic is a function of the development size and of the character of the land use. The *ITE Trip Generation Manual*¹ was used to calculate the number of trips that will be generated by the proposed development. This report is a compilation of trip data for various land uses as collected by transportation professionals throughout the United States in order to establish the average number of trips generated by those land uses. **Table 2** is a summary of the total trips that will be generated by the proposed development.

TABLE 2 – TOTAL GENERATED TRIPS FOR PROPOSED DEVELOPMENT

DEVELOPMENT INFORMATION			GENERATED TRIPS					
LAND USE	ITE CODE	SIZE	AM PEAK HOUR		PM PEAK HOUR		24-HOUR	
			ENTER	EXIT	ENTER	EXIT	ENTER	EXIT
Single-Family Housing	210	124 DU	23	68	77	45	615	615

PASS-BY & INTERNAL TRIPS

Pass-by trips are trips that are already in the existing traffic stream along the adjacent public roadway system that enter a site, utilize the site, and then return back to the existing traffic stream. Residential developments do not typically attract a significant number of pass-by trips. Therefore, pass-by trip reductions are not included in this study.

An internal trip results when a trip is made between two or more land uses without traversing the external public roadway system. The proposed development is a single land use only. Hence, internal trip reductions are not considered in this study.

ASSIGNMENT AND DISTRIBUTION OF GENERATED TRIPS

The study methodology used to determine the traffic volumes from the site that will be added to the street system is defined as follows:

1. The volume of traffic that will enter and exit the proposed development must be assigned to the access points and to the public street system. Using the traffic volume data collected for this analysis, traffic to and from the site has been assigned to the proposed driveways and to the public street system that will be serving the site.

¹ *Trip Generation Manual*, Institute of Transportation Engineers, Eleventh Edition, 2021.

2. To determine the volumes of traffic that will be added to the public roadway system, the generated traffic must be distributed by direction to the public roadways at their intersection with the driveways. For the proposed development site, the trip distribution was based on the location of the development, the existing traffic patterns, and the assignment of generated traffic.

Figure 5 illustrates the assignment and distribution of generated traffic volumes for the proposed development.

GENERATED TRIPS ADDED TO THE STREET SYSTEM

The generated traffic volumes from the proposed development have been assigned to each of the study intersections. These volumes were determined based on the previously discussed trip generation data, assignment and distribution of generated traffic. The total peak hour generated traffic volumes from the proposed development are shown in **Figure 6**, while **Figure 7** shows the sum of the year 2029 background traffic volumes and generated traffic volumes from the proposed development.

TURN LANE ANALYSIS

The year 2029 background traffic volumes were combined with the generated traffic volumes from the proposed development to determine if turn lanes would be required along Kinser Pike & Acuff Road at the proposed access drive locations. This analysis was done in accordance with the INDOT *Driveway Permit Manual*². The results are summarized in the following table.

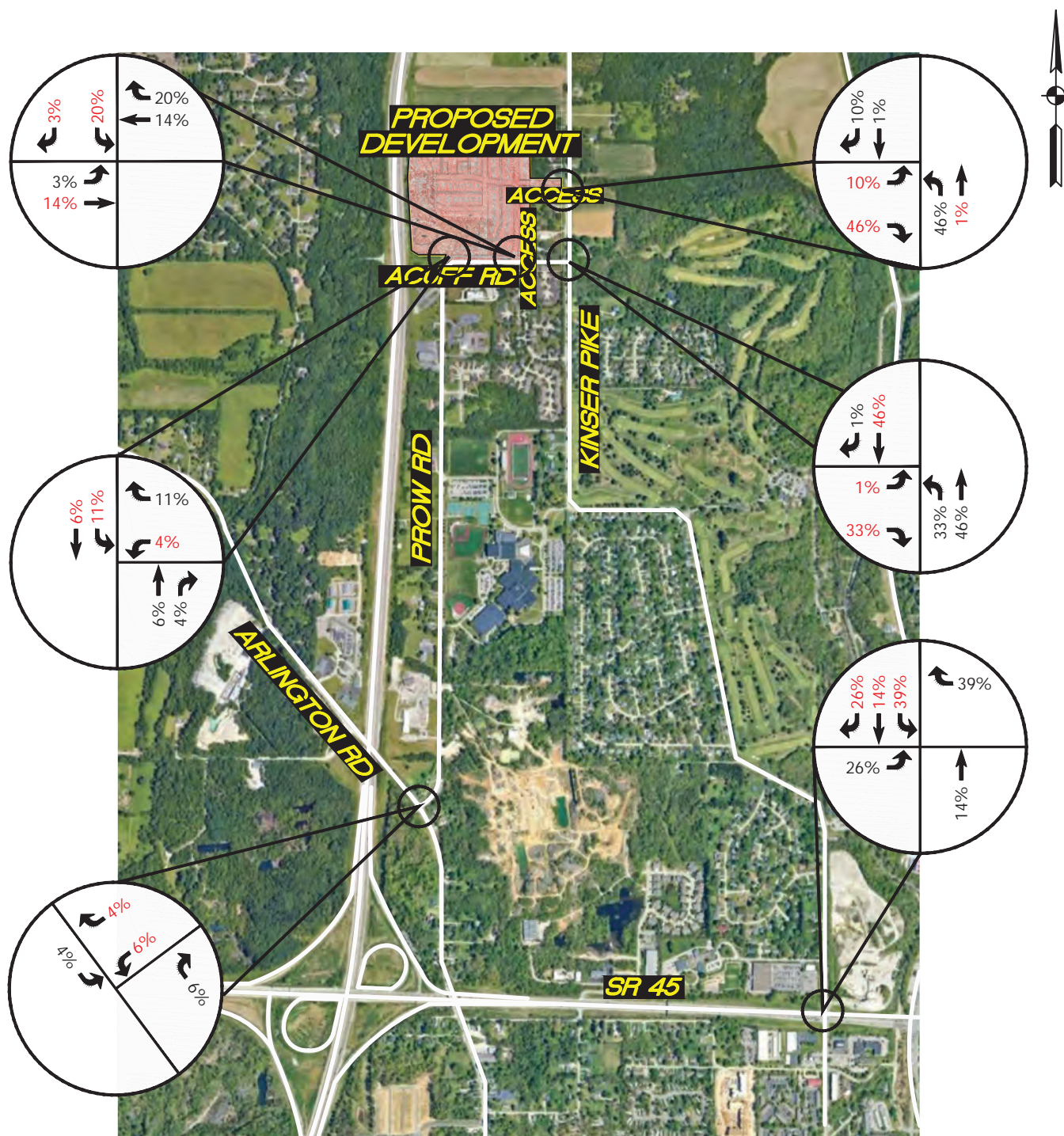
TABLE 3 –TURN LANE WARRANT ANALYSIS SUMMARY

LOCATION	SCENARIO	RIGHT- TURN LANE	LEFT-TURN LANE
Kinser Pike & Proposed Access Drive	Total Year 2029 Traffic Volumes + Generated Traffic Volumes	X	X
Acuff Road & Proposed Access Drive	Total Year 2029 Traffic Volumes + Generated Traffic Volumes	X	X

✓ =Turn Lane warranted; X =Turn Lane not warranted

While turn lanes are not shown to be warranted at either drive, it should be noted that turn lanes could be required based on local standards. The graphs that show the turn lane warrant criteria are shown in the **Appendix**.

² INDOT *Driveway Permit Manual*, Indiana Department of Transportation, 2018



LEGEND

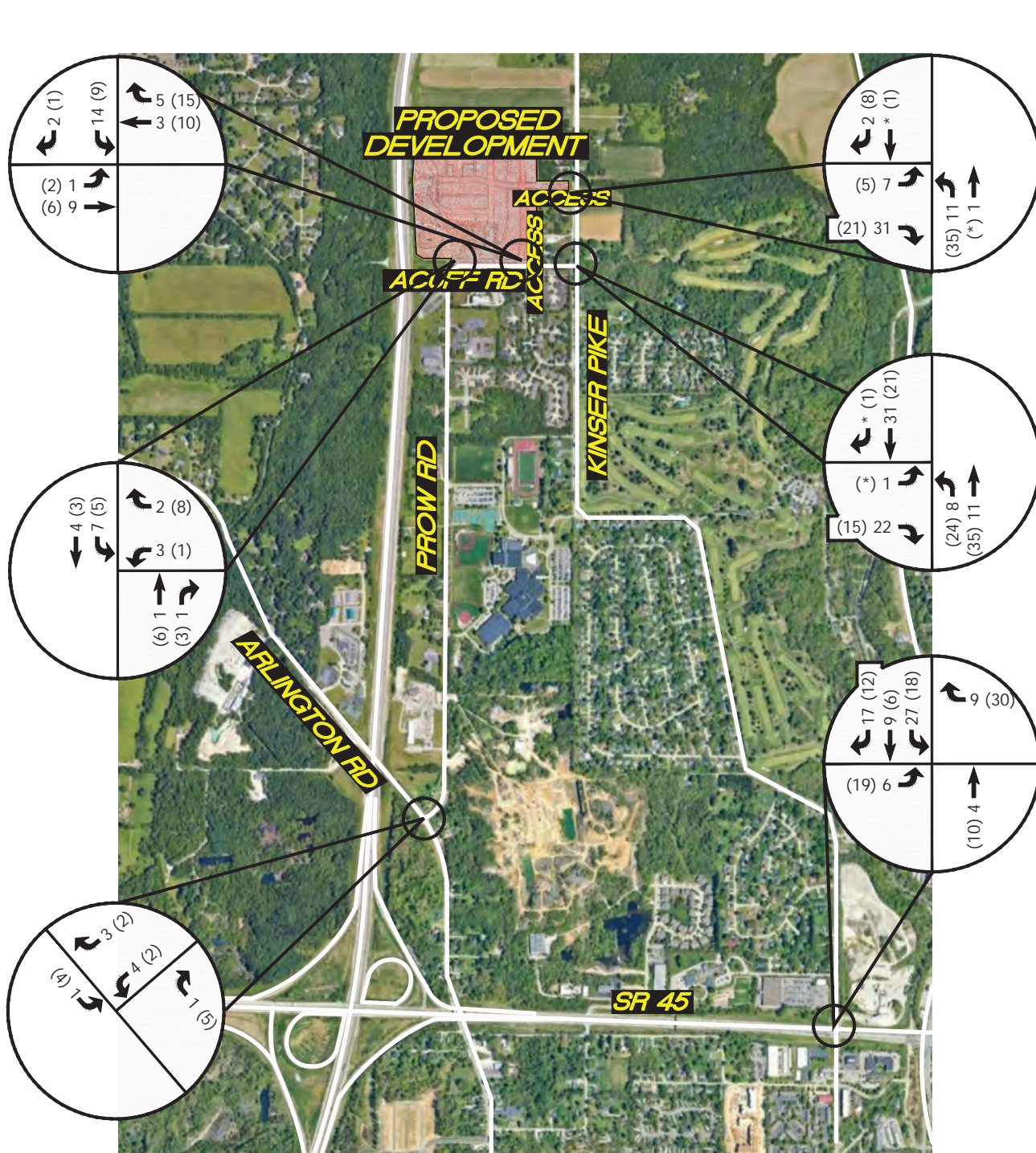
XX = INBOUND TRAFFIC

XX = OUTBOUND TRAFFIC

* = NEGLIGIBLE

**TRAFFIC IMPACT STUDY
KINSER RIDGE SUBDIVISION
BLOOMINGTON, INDIANA**

FIGURE 5
**ASSIGNMENT & DISTRIBUTION
OF GENERATED
TRAFFIC VOLUMES FROM
PROPOSED DEVELOPMENT**



LEGEND

XX = A.M. PEAK HOUR
 (XX) = P.M. PEAK HOUR
 * = NEGLIGIBLE

**TRAFFIC IMPACT STUDY
 KINSEY RIDGE SUBDIVISION
 BLOOMINGTON, INDIANA**

FIGURE 6

**TOTAL GENERATED TRAFFIC
 VOLUMES FROM PROPOSED
 DEVELOPMENT**

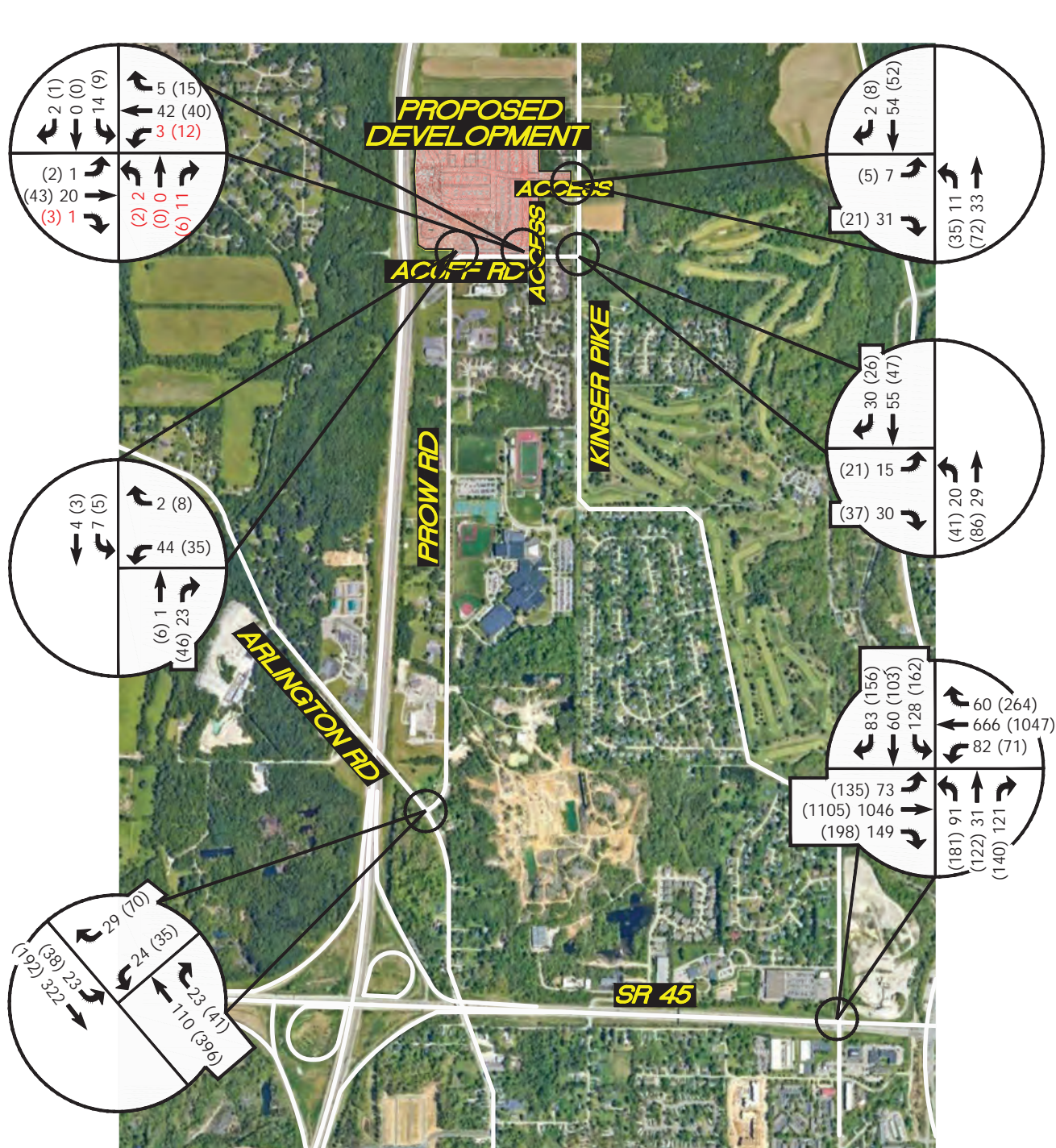


FIGURE 7

**SUM OF YEAR 2029 BACKGROUND
TRAFFIC VOLUMES & GENERATED
TRAFFIC VOLUMES FROM
PROPOSED DEVELOPMENT**

MULTI-WAY STOP WARRANT ANALYSIS

A multi-way stop warrant analysis has been conducted in order to determine if an all-way stop control could be warranted at the intersection of Acuff Road and Prow Road based on the sum of year 2029 background traffic volumes and the generated traffic volumes from the proposed development. Condition C (Intersection Volume & Delay) was conducted per the procedures outlined in the *Indiana Manual on Uniform Traffic Control Devices for Streets and Highways (IMUTCD)*.

HOURLY DISTRIBUTION OF TRIPS

The 24-hour traffic volumes (shown in Table 2) were distributed by hour based on the distribution percentages in the time-of-day data outlined in the Trip Generation Manual Appendices. The following table summarizes the resulting 24-hour hourly distribution of trips for the proposed development.

TABLE 4 – HOURLY DISTRIBUTION OF TRIPS FOR PROPOSED DEVELOPMENT

HOUR	DISTRIBUTION OF TRIPS BY HOUR		
	TOTAL	ENTERING	EXITING
12-1 AM	4	3	1
1-2 AM	2	1	1
2-3 AM	1	1	0
3-4 AM	2	1	1
4-5 AM	7	2	5
5-6 AM	15	3	12
6-7 AM	46	10	36
7-8 AM	80	19	61
8-9 AM	76	23	53
9-10 AM	56	20	36
10-11 AM	60	26	34
11-12 PM	64	33	31
12-1 PM	70	35	35
1-2 PM	75	38	37
2-3 PM	82	44	38
3-4 PM	92	54	38
4-5 PM	111	65	46
5-6 PM	107	62	45
6-7 PM	88	52	36
7-8 PM	63	37	26
8-9 PM	57	38	19
9-10 PM	41	27	14
10-11 PM	19	13	6
11-12 AM	12	8	4

HOURLY GENERATED TRIPS FROM ASSIGNMENT & DISTRIBUTION

The hourly trips in **Table 4** were multiplied to the assignment & distribution percentages (shown in **Figure 5**) at Acuff Road & Prow Road to generate the hourly trips at the intersection. The following table summarizes the resulting 24-hour hourly generated trips at Acuff Road & Prow Road.

TABLE 5 – PROPOSED DEVELOPMENT GENERATED TRIPS AT ACUFF ROAD & PROW ROAD

HOUR	HOURLY GENERATED TRIPS			
	APPROACH			
	NB	SB	NB+SB	WB
12-1 AM	0	0	0	0
1-2 AM	0	0	0	0
2-3 AM	0	0	0	0
3-4 AM	0	0	0	0
4-5 AM	0	2	2	1
5-6 AM	1	2	3	2
6-7 AM	2	6	8	2
7-8 AM	2	11	13	4
8-9 AM	2	9	11	5
9-10 AM	2	6	8	3
10-11 AM	3	6	9	4
11-12 PM	3	5	8	5
12-1 PM	3	6	9	5
1-2 PM	4	6	10	5
2-3 PM	5	6	11	7
3-4 PM	5	6	11	8
4-5 PM	7	8	15	9
5-6 PM	6	8	14	9
6-7 PM	5	6	11	7
7-8 PM	3	5	8	5
8-9 PM	4	3	7	5
9-10 PM	3	3	6	4
10-11 PM	2	1	3	2
11-12 AM	0	0	0	1

TRAFFIC VOLUME SUMMARY

The hourly generated trips are added to the year 2029 background traffic volumes to yield the total hourly traffic volumes at the intersection of Acuff road & Prow Road evaluated for the multi-way warrant analysis.

TABLE 6 – TRAFFIC VOLUME SUMMARY: YEAR 2029 BACKGROUND + PROPOSED DEVELOPMENT

HOUR	YEAR 2029 BACKGROUND + PROPOSED			
	APPROACH			
	NB	SB	NB+SB	WB
12-1 AM	4	0	4	0
1-2 AM	0	0	0	0
2-3 AM	1	0	1	0
3-4 AM	0	0	0	0
4-5 AM	0	2	2	3
5-6 AM	4	2	6	9
6-7 AM	9	6	15	19
7-8 AM	11	11	22	38
8-9 AM	25	9	34	43
9-10 AM	24	6	30	31
10-11 AM	14	6	20	30
11-12 PM	38	5	43	47
12-1 PM	28	6	34	27
1-2 PM	27	6	33	29
2-3 PM	35	6	41	41
3-4 PM	44	6	50	31
4-5 PM	46	8	54	56
5-6 PM	45	8	53	37
6-7 PM	34	6	40	28
7-8 PM	16	5	21	17
8-9 PM	12	3	15	18
9-10 PM	20	3	23	17
10-11 PM	10	1	11	5
11-12 AM	6	0	6	4

WARRANT ANALYSIS: MULTI-WAY STOP CRITERIA

The following criteria from the *Indiana Manual on Uniform Traffic Control Devices for Streets and Highways* were used for the warrant analysis:

Condition C – Intersection Volume & Delay

According to the *Indiana MUTCD*, the volumes needed for these criteria along the major road (Prow Road) are the sum of both approaches while the volumes needed along the minor road (Acuff Road) is the approach with the highest volume for each hour. Per the warrant criteria from the *Indiana MUTCD*, the vehicular volume entering the intersection from the major street approaches averages at least 300 vehicles per hour for any 8 hours of an average day and the combined vehicular, pedestrian, and bicycle volume entering the intersection from the minor street approaches averages at least 200 units per hour for the same 8 hours. Comparing the volumes shown in the table

shows that an all-way stop will not be warranted at this location. The summary report can be found in the **Appendix**.

CAPACITY ANALYSIS

The "efficiency" of an intersection is based on its ability to accommodate the traffic volumes that approach the intersection. It is defined by the Level-of-Service (LOS) of the intersection. The LOS is determined by a series of calculations commonly called a "capacity analysis". Input data into a capacity analysis include traffic volumes, intersection geometry, and number and use of lanes. To determine the LOS at each of the study intersections, a capacity analysis has been made using the recognized computer program *Synchro/SimTraffic*³. This program allows intersections to be analyzed and optimized using the capacity calculation methods outlined within the *Highway Capacity Manual (HCM 7th Edition)*⁴. The following list shows the delays related to the levels of service for unsignalized and signalized intersections:

<u>Level of Service</u>	<u>Control Delay (seconds/vehicle)</u>	
	<u>UNSIGNALIZED</u>	<u>SIGNALIZED</u>
A	Less than or equal to 10	Less than or equal to 10
B	Between 10.1 and 15	Between 10.1 and 20
C	Between 15.1 and 25	Between 20.1 and 35
D	Between 25.1 and 35	Between 35.1 and 55
E	Between 35.1 and 50	Between 55.1 and 80
F	greater than 50	greater than 80

CAPACITY ANALYSIS SCENARIOS

To evaluate the proposed development's effect on the public street system, a series of traffic volume scenarios were analyzed to determine the adequacy of the existing roadway network. From this analysis, necessary recommendations can be made to improve the public street system so it will accommodate future traffic volumes. An analysis has been made for the peak hours at each of the study intersections for the following traffic volume scenarios:

Scenario 1: Existing Traffic Volumes – Based on existing peak hour traffic volumes.

Scenario 2: Year 2029 Background Traffic Volumes – Based on applying a 1.0% per year annual growth rate to the existing traffic volumes.

Scenario 3: Year 2029 Proposed Development Traffic Volumes – Based on the sum of year 2029 background traffic volumes and generated traffic volumes from the proposed development.

³ *Synchro/SimTraffic 12*, Cubic Transportation Systems, 2023.

⁴ *Highway Capacity Manual (HCM), 7th Edition* Transportation Research Board, The National Academies of Sciences, Washington, DC, 2022.

The following tables summarize the peak hour level of service results at each of the study intersections. The *Synchro (HCM 7th Edition)* intersection reports illustrating the capacity analysis results are included in the **Appendix**.

TABLE 7 – LEVEL OF SERVICE SUMMARY: ACUFF ROAD & KINSER PIKE

APPROACH	AM PEAK			PM PEAK		
	Scenarios			Scenarios		
	1	2	3	1	2	3
Eastbound Approach	A	A	A	A	A	A
Northbound Left-Turn	A	A	A	A	A	A

TABLE 8 – LEVEL OF SERVICE SUMMARY: PROW ROAD & ARLINGTON ROAD

APPROACH	AM PEAK			PM PEAK		
	Scenarios			Scenarios		
	1	2	3	1	2	3
Southwestbound Approach	B	B	B	B	B	B
Southeastbound Left-Turn	A	A	A	A	A	A

TABLE 9 – LEVEL OF SERVICE SUMMARY: KINSER PIKE & SR 45

APPROACH	AM PEAK			PM PEAK		
	Scenarios			Scenarios		
	1	2	3	1	2	3
Northbound Approach	C	C	C	C	C	C
Southbound Approach	C	C	C	C	C	C
Eastbound Approach	C	C	C	C	C	C
Westbound Approach	B	B	B	C	C	C
Intersection	C	C	C	C	C	C

TABLE 10 – LEVEL OF SERVICE SUMMARY: ACUFF ROAD & PROW ROAD

APPROACH	AM PEAK	PM PEAK
	Scenario 3	Scenario 3
Westbound Approach	A	A
Southbound Left-Turn	A	A

Analysis considers the installation of stop control along Acuff Road.

TABLE 11 – LEVEL OF SERVICE SUMMARY: KINSER PIKE & PROPOSED ACCESS DRIVE

APPROACH	AM PEAK	PM PEAK
	Scenario 3	Scenario 3
Eastbound Approach	A	A
Northbound Left-Turn	A	A

Analysis considers construction of the eastbound access drive with one inbound and one outbound lane that will stop for Kinser Pike.

TABLE 12 – LEVEL OF SERVICE SUMMARY: ACUFF ROAD & PROPOSED ACCESS DRIVE

APPROACH	AM PEAK	PM PEAK
	Scenario 3	Scenarios 3
Northbound Approach	A	A
Southbound Approach	A	A
Eastbound Left-Turn	A	A
Westbound Left-Turn	A	A

CONCLUSIONS & RECOMMENDATIONS

The conclusions that follow are based on the data and analyses presented in this study and a field review conducted at the site. Based on the analysis and the resulting conclusions of this study, recommendations are formulated to ensure that the roadway system will accommodate the future traffic volumes.

ACUFF ROAD & KINSER PIKE

Capacity analyses have shown that all approaches to the intersection currently operate and will continue to operate at acceptable levels of service during the AM and PM peak hours for all traffic volume scenarios. Therefore, no improvements are recommended at this location.

PROW ROAD & ARLINGTON ROAD

Capacity analyses have shown that all approaches to the intersection currently operate and will continue to operate at acceptable levels of service during the AM and PM peak hours for all traffic volume scenarios. Therefore, no improvements are recommended at this location.

KINSER PIKE & SR 45

Capacity analyses have shown that this intersection currently operates and will continue to operate at acceptable levels of service during the AM and PM peak hours for all traffic volume scenarios. Therefore, no improvements are recommended at this location.

ACUFF ROAD & PROW ROAD

An all-way stop warrant analysis showed that an all-way stop will not likely be warranted at this intersection when the proposed development traffic volumes are added to the roadway network. Therefore, capacity analysis were completed assuming that all approaches to the intersection would be one lane and Acuff Road would stop for Prow Road. These analyses have shown that all approaches to the intersection will operate at acceptable levels of service during the AM and PM peak hours.

KINSER PIKE & PROPOSED ACCESS DRIVE

Capacity analyses have shown that all approaches to this intersection will operate at acceptable levels of service during the AM and PM peak hours with the following intersection conditions:

- Construction of the proposed full access drive with one inbound and one outbound lane.
- The intersection should be stop-controlled with the access drive stopping for Kinser Pike.

ACUFF ROAD & PROPOSED ACCESS DRIVE

Capacity analyses have shown that all approaches to this intersection will operate at acceptable levels of service during the AM and PM peak hours with the following intersection conditions:

- Construction of the proposed full access drive with one inbound and one outbound lane.
- The intersection should be stop-controlled with the access drive stopping for Acuff Road.

TRAFFIC IMPACT STUDY

APPENDIX



***8365 Keystone Crossing Boulevard, Suite 201
Indianapolis, IN 46240
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ACUFF ROAD & KINSER PIKE

TRAFFIC VOLUME COUNTS CAPACITY ANALYSIS

KINSER PIKE & ACUFF RD - TMC

Wed May 29, 2024

AM Peak (8 AM - 9 AM)

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1192455, Location: 39.208336, -86.547417



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Provided by: A&F Engineering

8365 Keystone Crossing, Suite 201, Indianapolis, IN, 46240, US

Leg Direction	South Northbound				North Southbound				West Eastbound				
Time	L	T	U	App	T	R	U	App	L	R	U	App	Int
2024-05-29 8:00AM	1	2	0	3	3	7	0	10	2	1	0	3	16
8:15AM	8	7	0	15	5	5	0	10	4	3	0	7	32
8:30AM	0	3	0	3	7	6	0	13	4	2	0	6	22
8:45AM	2	5	0	7	7	11	1	19	3	2	0	5	31
Total	11	17	0	28	22	29	1	52	13	8	0	21	101
% Approach	39.3%	60.7%	0%	-	42.3%	55.8%	1.9%	-	61.9%	38.1%	0%	-	-
% Total	10.9%	16.8%	0%	27.7%	21.8%	28.7%	1.0%	51.5%	12.9%	7.9%	0%	20.8%	-
PHF	0.344	0.607	-	0.467	0.786	0.659	0.250	0.684	0.813	0.667	-	0.750	0.789
Lights and Motorcycles	10	15	0	25	22	26	1	49	13	8	0	21	95
% Lights and Motorcycles	90.9%	88.2%	0%	89.3%	100%	89.7%	100%	94.2%	100%	100%	0%	100%	94.1%
Heavy	1	2	0	3	0	3	0	3	0	0	0	0	6
% Heavy	9.1%	11.8%	0%	10.7%	0%	10.3%	0%	5.8%	0%	0%	0%	0%	5.9%

* L: Left, R: Right, T: Thru, U: U-Turn

KINSER PIKE & ACUFF RD - TMC

Wed May 29, 2024

AM Peak (8 AM - 9 AM)

All Classes (Lights and Motorcycles, Heavy)

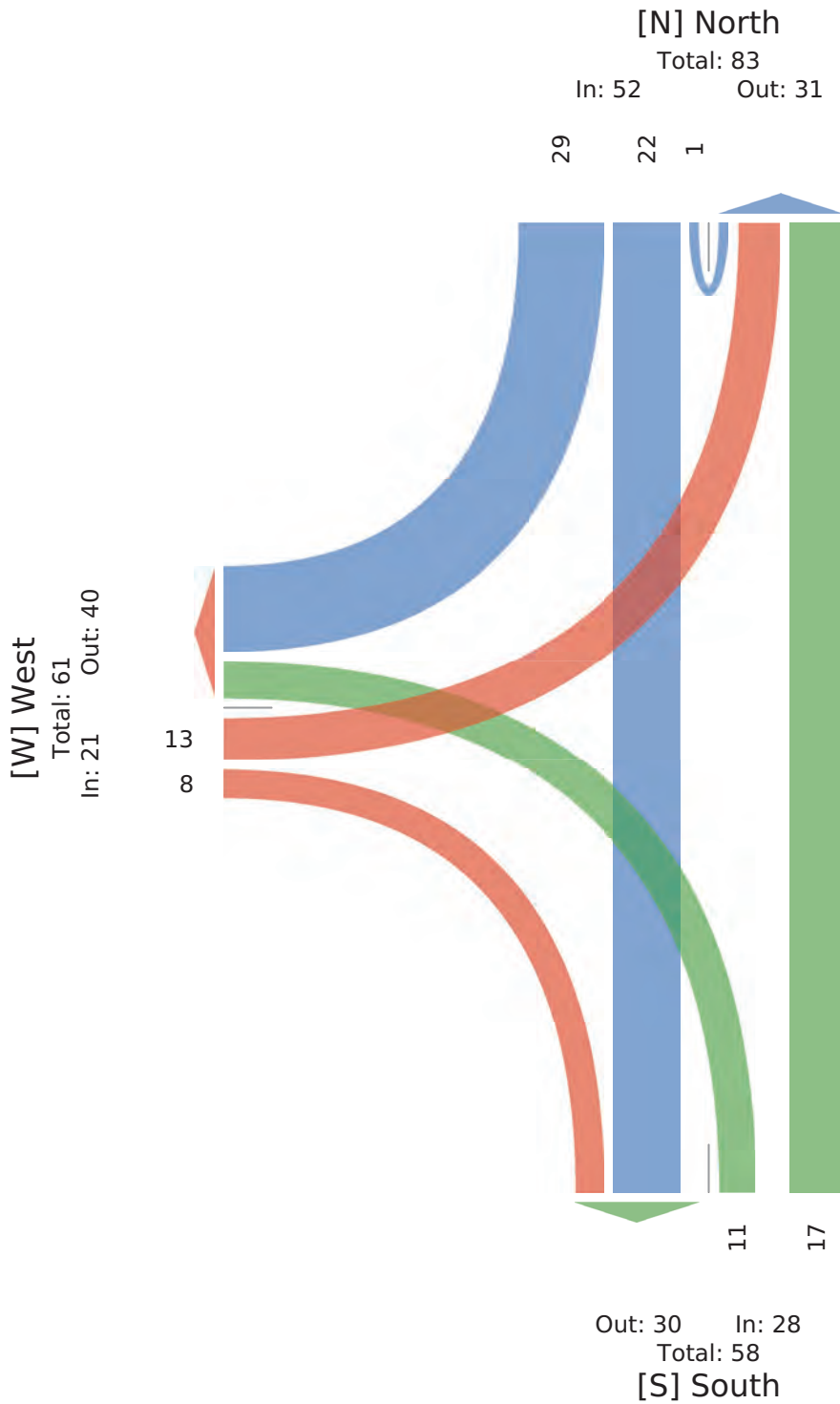
All Movements

ID: 1192455, Location: 39.208336, -86.547417



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Provided by: A&F Engineering
8365 Keystone Crossing, Suite 201, Indianapolis, IN, 46240, US



KINSER PIKE & ACUFF RD - TMC

Wed May 29, 2024

PM Peak (4 PM - 5 PM) - Overall Peak Hour

All Classes (Lights and Motorcycles, Heavy)

All Movements

ID: 1192455, Location: 39.208336, -86.547417



Provided by: A&F Engineering
8365 Keystone Crossing, Suite 201, Indianapolis, IN, 46240, US

Leg Direction	South Northbound				North Southbound				West Eastbound				
Time	L	T	U	App	T	R	U	App	L	R	U	App	Int
2024-05-29 4:00PM	1	10	0	11	6	6	0	12	6	7	0	13	36
4:15PM	7	9	0	16	9	5	0	14	3	4	0	7	37
4:30PM	5	14	0	19	4	4	0	8	5	10	0	15	42
4:45PM	3	16	0	19	6	9	0	15	6	0	0	6	40
Total	16	49	0	65	25	24	0	49	20	21	0	41	155
% Approach	24.6%	75.4%	0%	-	51.0%	49.0%	0%	-	48.8%	51.2%	0%	-	-
% Total	10.3%	31.6%	0%	41.9%	16.1%	15.5%	0%	31.6%	12.9%	13.5%	0%	26.5%	-
PHF	0.571	0.766	-	0.855	0.694	0.667	-	0.817	0.833	0.525	-	0.683	0.923
Lights and Motorcycles	15	49	0	64	24	23	0	47	19	21	0	40	151
% Lights and Motorcycles	93.8%	100%	0%	98.5%	96.0%	95.8%	0%	95.9%	95.0%	100%	0%	97.6%	97.4%
Heavy	1	0	0	1	1	1	0	2	1	0	0	1	4
% Heavy	6.3%	0%	0%	1.5%	4.0%	4.2%	0%	4.1%	5.0%	0%	0%	2.4%	2.6%

* L: Left, R: Right, T: Thru, U: U-Turn

KINSER PIKE & ACUFF RD - TMC

Wed May 29, 2024

PM Peak (4 PM - 5 PM) - Overall Peak Hour

All Classes (Lights and Motorcycles, Heavy)

All Movements

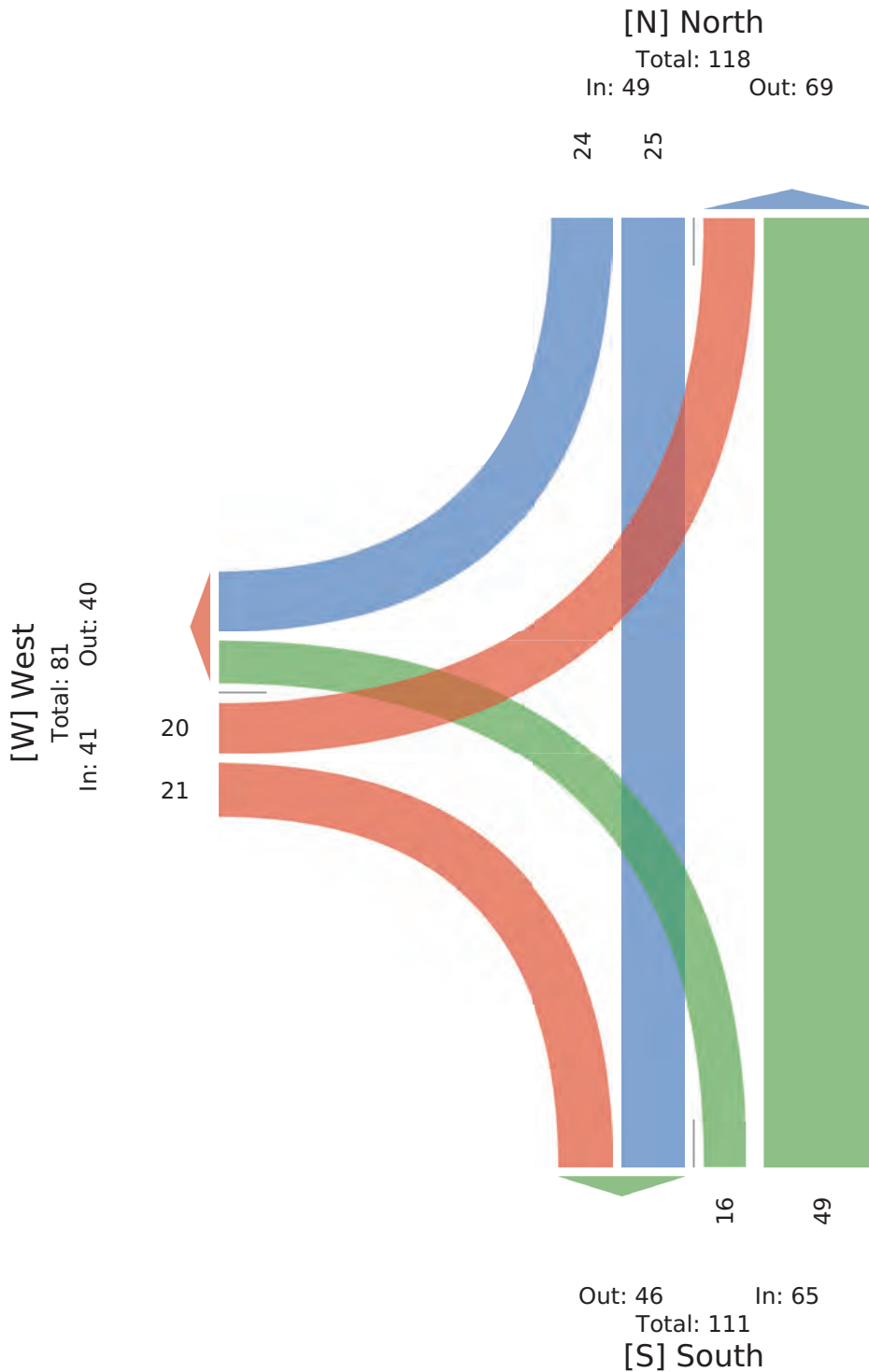
ID: 1192455, Location: 39.208336, -86.547417



95




Provided by: A&F Engineering

8365 Keystone Crossing, Suite 201, Indianapolis, IN, 46240, US



HCM 7th TWSC
8: Kinser Pike & Acuff Rd

96
Existing AM Peak
06/06/2024

Intersection						
Int Delay, s/veh	2.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	13	8	11	17	22	29
Future Vol, veh/h	13	8	11	17	22	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	9	12	0	10
Mvmt Flow	16	10	14	22	28	37




Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	96	46	65	0	-	0
Stage 1	46	-	-	-	-	-
Stage 2	49	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.19	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.281	-	-	-
Pot Cap-1 Maneuver	909	1029	1494	-	-	-
Stage 1	981	-	-	-	-	-
Stage 2	978	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	900	1029	1494	-	-	-
Mov Cap-2 Maneuver	900	-	-	-	-	-
Stage 1	972	-	-	-	-	-
Stage 2	978	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.92	2.92	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	707	-	945	-	-
HCM Lane V/C Ratio	0.009	-	0.028	-	-
HCM Control Delay (s/veh)	7.4	0	8.9	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

HCM 7th TWSC
8: Kinser Pike & Acuff Rd




97
Existing PM Peak
06/06/2024




Intersection						
Int Delay, s/veh	3.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	20	21	16	49	25	24
Future Vol, veh/h	20	21	16	49	25	24
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	5	0	6	0	4	4
Mvmt Flow	22	23	17	53	27	26




Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	128	40	53	0	-	0
Stage 1	40	-	-	-	-	-
Stage 2	88	-	-	-	-	-
Critical Hdwy	6.45	6.2	4.16	-	-	-
Critical Hdwy Stg 1	5.45	-	-	-	-	-
Critical Hdwy Stg 2	5.45	-	-	-	-	-
Follow-up Hdwy	3.545	3.3	2.254	-	-	-
Pot Cap-1 Maneuver	859	1037	1527	-	-	-
Stage 1	975	-	-	-	-	-
Stage 2	928	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	849	1037	1527	-	-	-
Mov Cap-2 Maneuver	849	-	-	-	-	-
Stage 1	963	-	-	-	-	-
Stage 2	928	-	-	-	-	-




Approach	EB	NB	SB
HCM Control Delay, s/v	9.04	1.82	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	443	-	936	-	-
HCM Lane V/C Ratio	0.011	-	0.048	-	-
HCM Control Delay (s/veh)	7.4	0	9	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection						
Int Delay, s/veh	2.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	14	8	12	18	23	30
Future Vol, veh/h	14	8	12	18	23	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	9	12	0	10
Mvmt Flow	18	10	15	23	29	38
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	101	48	67	0	-	0
Stage 1	48	-	-	-	-	-
Stage 2	53	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.19	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.281	-	-	-
Pot Cap-1 Maneuver	902	1026	1491	-	-	-
Stage 1	980	-	-	-	-	-
Stage 2	974	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	893	1026	1491	-	-	-
Mov Cap-2 Maneuver	893	-	-	-	-	-
Stage 1	969	-	-	-	-	-
Stage 2	974	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s/v	8.96	2.98		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	720	-	937	-	-	
HCM Lane V/C Ratio	0.01	-	0.03	-	-	
HCM Control Delay (s/veh)	7.4	0	9	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	

Intersection						
Int Delay, s/veh	3.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	21	22	17	51	26	25
Future Vol, veh/h	21	22	17	51	26	25
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	5	0	6	0	4	4
Mvmt Flow	23	24	18	55	28	27
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	134	42	55	0	-	0
Stage 1	42	-	-	-	-	-
Stage 2	92	-	-	-	-	-
Critical Hdwy	6.45	6.2	4.16	-	-	-
Critical Hdwy Stg 1	5.45	-	-	-	-	-
Critical Hdwy Stg 2	5.45	-	-	-	-	-
Follow-up Hdwy	3.545	3.3	2.254	-	-	-
Pot Cap-1 Maneuver	852	1035	1524	-	-	-
Stage 1	973	-	-	-	-	-
Stage 2	924	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	842	1035	1524	-	-	-
Mov Cap-2 Maneuver	842	-	-	-	-	-
Stage 1	961	-	-	-	-	-
Stage 2	924	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s/v	9.07	1.85		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	450	-	930	-	-	
HCM Lane V/C Ratio	0.012	-	0.05	-	-	
HCM Control Delay (s/veh)	7.4	0	9.1	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0	-	0.2	-	-	

Intersection						
Int Delay, s/veh	3.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	15	30	20	29	54	30
Future Vol, veh/h	15	30	20	29	54	30
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	79	79	79	79	79	79
Heavy Vehicles, %	0	0	9	12	0	10
Mvmt Flow	19	38	25	37	68	38
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	175	87	106	0	-	0
Stage 1	87	-	-	-	-	-
Stage 2	87	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.19	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.281	-	-	-
Pot Cap-1 Maneuver	820	977	1442	-	-	-
Stage 1	941	-	-	-	-	-
Stage 2	941	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	805	977	1442	-	-	-
Mov Cap-2 Maneuver	805	-	-	-	-	-
Stage 1	924	-	-	-	-	-
Stage 2	941	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s/v	9.21	3.08		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	735	-	912	-	-	
HCM Lane V/C Ratio	0.018	-	0.062	-	-	
HCM Control Delay (s/veh)	7.5	0	9.2	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0.1	-	0.2	-	-	

Intersection						
Int Delay, s/veh	3.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	21	37	42	86	47	26
Future Vol, veh/h	21	37	42	86	47	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	5	0	6	0	4	4
Mvmt Flow	23	40	46	93	51	28
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	250	65	79	0	-	0
Stage 1	65	-	-	-	-	-
Stage 2	185	-	-	-	-	-
Critical Hdwy	6.45	6.2	4.16	-	-	-
Critical Hdwy Stg 1	5.45	-	-	-	-	-
Critical Hdwy Stg 2	5.45	-	-	-	-	-
Follow-up Hdwy	3.545	3.3	2.254	-	-	-
Pot Cap-1 Maneuver	732	1004	1494	-	-	-
Stage 1	950	-	-	-	-	-
Stage 2	840	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	708	1004	1494	-	-	-
Mov Cap-2 Maneuver	708	-	-	-	-	-
Stage 1	919	-	-	-	-	-
Stage 2	840	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s/v	9.45	2.46		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	591	-	872	-	-	
HCM Lane V/C Ratio	0.031	-	0.072	-	-	
HCM Control Delay (s/veh)	7.5	0	9.4	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0.1	-	0.2	-	-	

PROW ROAD & ARLINGTON ROAD

TRAFFIC VOLUME COUNTS CAPACITY ANALYSIS

PROW RD & ARLINGTON RD - TMC

Wed May 29, 2024

AM Peak (8-) 0 AM 1 G) 0 AMs

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PROW RD & ARLINGTON RD - TMC

Wed May 29, 2024

AM Peak (8-0 AM) 1 G) 0 AMs

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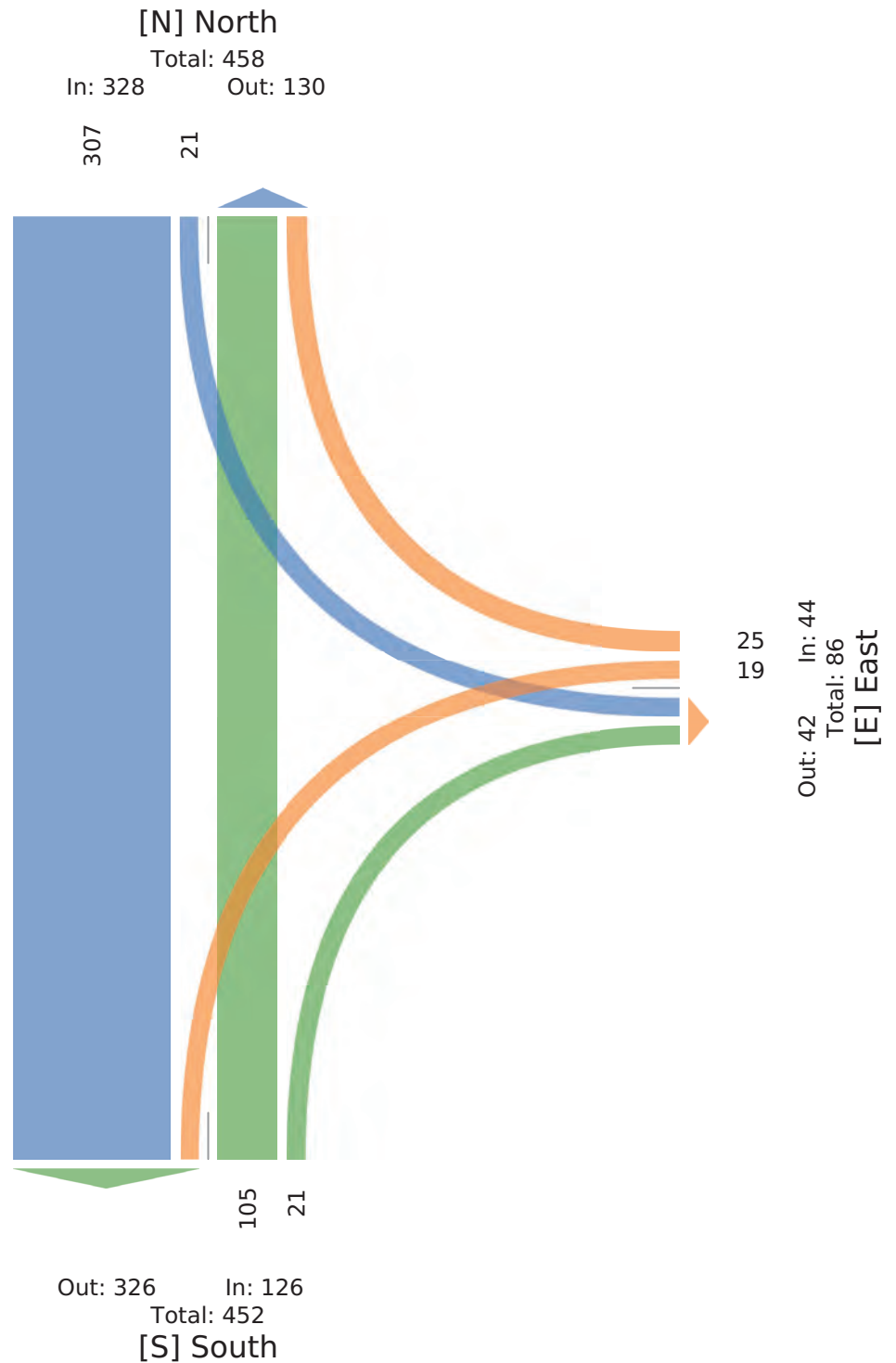
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PROW RD & ARLINGTON RD - TMC

Wed May 29, 2024

PM Peak (4-50 PM) Q50 PMv) r l eHwPeak u ACH

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2024)0Q)29 4-50PM	94	4	0	96	6	45	0	CB	6	20	0	26	3RR
4-4CPM	63	34	0	90	4	4.	0	CB	4	3.	0	20	3. O
O00PM	92	30	0	302	30	4.	0	Q	30	32	0	22	360
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% s SSHaln	938%	68%	0%)	348%	608%	0%)	528%	. RR%	0%))
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* g- gefç T- Tlt nç U- UnHC, N- N)UCHn

PROW RD & ARLINGTON RD - TMC

Wed May 29, 2024

PM Peak (4:30 PM - 5:30 PM) - Overall Peak Hour

All Classes (Lights and Motorcycles, Heavy)

All Movements

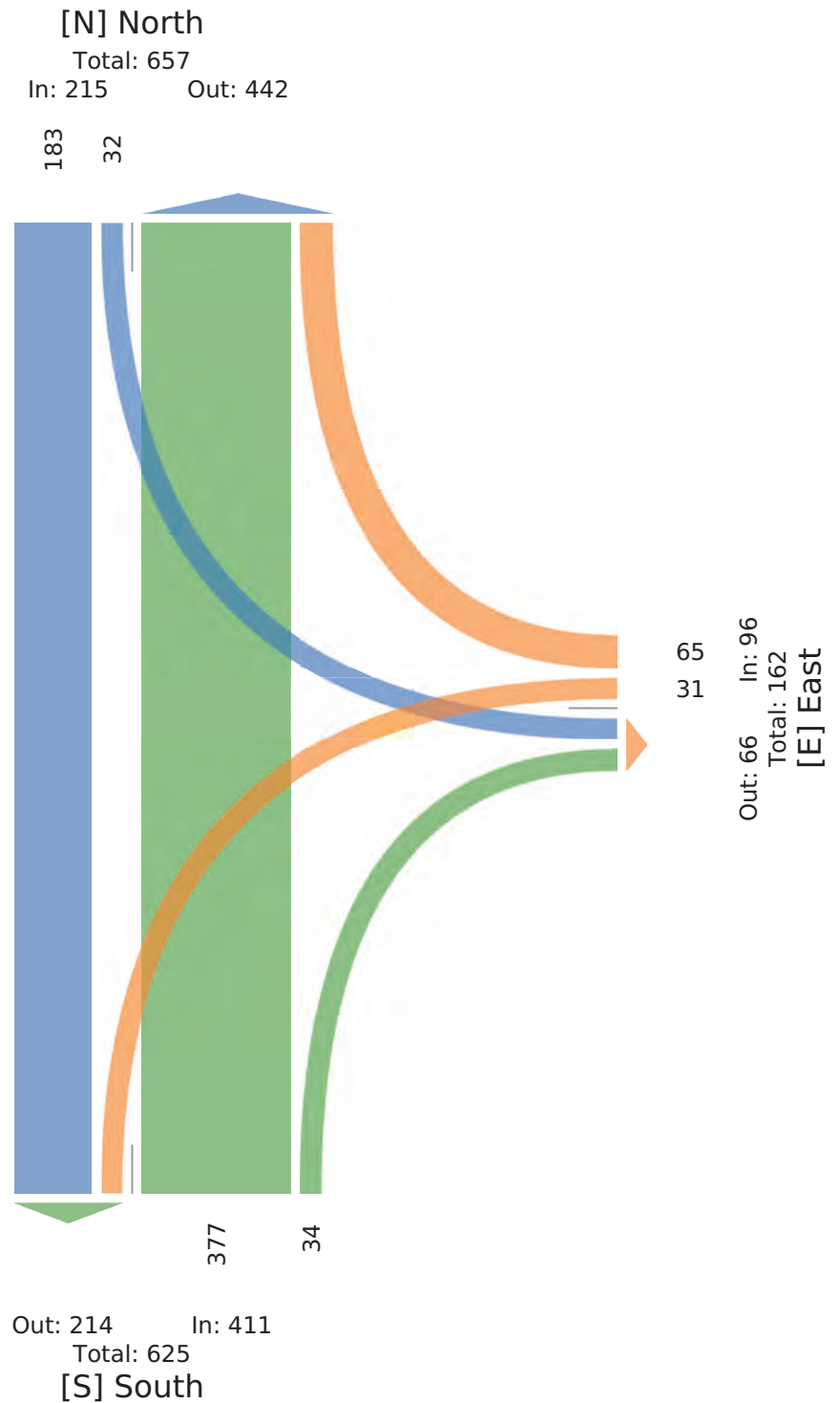
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106






Provided by: A&F Engineering

8365 Keystone Crossing, Suite 201, Indianapolis, IN, 46240, US








HCM 7th TWSC
10: Arlington Rd & Prow Rd






107
Existing AM Peak
06/06/2024





Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	SEL	SET	NWT	NWR
Lane Configurations						
Traffic Vol, veh/h	19	25	21	307	105	21
Future Vol, veh/h	19	25	21	307	105	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	170	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	5	8	0	1	5	0
Mvmt Flow	21	27	23	337	115	23
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	510	127	138	0	-	0
Stage 1	127	-	-	-	-	-
Stage 2	384	-	-	-	-	-
Critical Hdwy	6.45	6.28	4.1	-	-	-
Critical Hdwy Stg 1	5.45	-	-	-	-	-
Critical Hdwy Stg 2	5.45	-	-	-	-	-
Follow-up Hdwy	3.545	3.372	2.2	-	-	-
Pot Cap-1 Maneuver	518	907	1458	-	-	-
Stage 1	891	-	-	-	-	-
Stage 2	682	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	510	907	1458	-	-	-
Mov Cap-2 Maneuver	510	-	-	-	-	-
Stage 1	877	-	-	-	-	-
Stage 2	682	-	-	-	-	-
Approach	WB	SE		NW		
HCM Control Delay, s/v10.71		0.48		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NWT	NWR	WBLn1	SEL	SET	
Capacity (veh/h)	-	-	679	1458	-	
HCM Lane V/C Ratio	-	-	0.071	0.016	-	
HCM Control Delay (s/veh)	-	-	10.7	7.5	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	0.2	0	-	

HCM 7th TWSC
10: Arlington Rd & Prow Rd

108
Existing PM Peak
06/06/2024

Intersection						
Int Delay, s/veh	2.2					
Movement	WBL	WBR	SEL	SET	NWT	NWR
Lane Configurations						
Traffic Vol, veh/h	31	65	32	183	377	34
Future Vol, veh/h	31	65	32	183	377	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	170	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	3	2	0	0	1	0
Mvmt Flow	34	72	36	203	419	38
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	712	438	457	0	-	0
Stage 1	438	-	-	-	-	-
Stage 2	274	-	-	-	-	-
Critical Hdwy	6.43	6.22	4.1	-	-	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.318	2.2	-	-	-
Pot Cap-1 Maneuver	397	619	1115	-	-	-
Stage 1	649	-	-	-	-	-
Stage 2	769	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	385	619	1115	-	-	-
Mov Cap-2 Maneuver	385	-	-	-	-	-
Stage 1	628	-	-	-	-	-
Stage 2	769	-	-	-	-	-
Approach	WB	SE		NW		
HCM Control Delay, s/v13.76		1.24		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NWT	NWR	WBLn1	SEL	SET	
Capacity (veh/h)	-	-	517	1115	-	
HCM Lane V/C Ratio	-	-	0.206	0.032	-	
HCM Control Delay (s/veh)	-	-	13.8	8.3	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	0.8	0.1	-	






Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	SEL	SET	NWT	NWR
Lane Configurations						
Traffic Vol, veh/h	20	26	22	322	110	22
Future Vol, veh/h	20	26	22	322	110	22
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	170	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	5	8	0	1	5	0
Mvmt Flow	22	29	24	354	121	24
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	535	133	145	0	-	0
Stage 1	133	-	-	-	-	-
Stage 2	402	-	-	-	-	-
Critical Hdwy	6.45	6.28	4.1	-	-	-
Critical Hdwy Stg 1	5.45	-	-	-	-	-
Critical Hdwy Stg 2	5.45	-	-	-	-	-
Follow-up Hdwy	3.545	3.372	2.2	-	-	-
Pot Cap-1 Maneuver	501	900	1450	-	-	-
Stage 1	886	-	-	-	-	-
Stage 2	669	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	492	900	1450	-	-	-
Mov Cap-2 Maneuver	492	-	-	-	-	-
Stage 1	871	-	-	-	-	-
Stage 2	669	-	-	-	-	-
Approach	WB	SE		NW		
HCM Control Delay, s/v10.89		0.48		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NWT	NWR	WBLn1	SEL	SET	
Capacity (veh/h)	-	-	662	1450	-	
HCM Lane V/C Ratio	-	-	0.076	0.017	-	
HCM Control Delay (s/veh)	-	-	10.9	7.5	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	0.2	0.1	-	





Intersection						
Int Delay, s/veh	2.3					
Movement	WBL	WBR	SEL	SET	NWT	NWR
Lane Configurations						
Traffic Vol, veh/h	33	68	34	192	396	36
Future Vol, veh/h	33	68	34	192	396	36
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	170	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	3	2	0	0	1	0
Mvmt Flow	37	76	38	213	440	40
Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	749	460	480	0	-	0
Stage 1	460	-	-	-	-	-
Stage 2	289	-	-	-	-	-
Critical Hdwy	6.43	6.22	4.1	-	-	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.318	2.2	-	-	-
Pot Cap-1 Maneuver	378	601	1093	-	-	-
Stage 1	634	-	-	-	-	-
Stage 2	758	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	365	601	1093	-	-	-
Mov Cap-2 Maneuver	365	-	-	-	-	-
Stage 1	612	-	-	-	-	-
Stage 2	758	-	-	-	-	-
Approach	WB		SE		NW	
HCM Control Delay, s/v	14.36		1.27		0	
HCM LOS	B					
Minor Lane/Major Mvmt	NWT	NWR	WBLn1	SEL	SET	
Capacity (veh/h)	-	-	496	1093	-	
HCM Lane V/C Ratio	-	-	0.226	0.035	-	
HCM Control Delay (s/veh)	-	-	14.4	8.4	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	0.9	0.1	-	

HCM 7th TWSC
10: Arlington Rd & Prow Rd

Background 2029 + Proposed AM Peak

06/20/2024

Intersection						
Int Delay, s/veh	1.4					
Movement	WBL	WBR	SEL	SET	NWT	NWR
Lane Configurations						
Traffic Vol, veh/h	24	29	23	322	110	23
Future Vol, veh/h	24	29	23	322	110	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	170	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	91	91	91	91	91	91
Heavy Vehicles, %	5	8	0	1	5	0
Mvmt Flow	26	32	25	354	121	25
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	538	134	146	0	-	0
Stage 1	134	-	-	-	-	-
Stage 2	404	-	-	-	-	-
Critical Hdwy	6.45	6.28	4.1	-	-	-
Critical Hdwy Stg 1	5.45	-	-	-	-	-
Critical Hdwy Stg 2	5.45	-	-	-	-	-
Follow-up Hdwy	3.545	3.372	2.2	-	-	-
Pot Cap-1 Maneuver	499	900	1448	-	-	-
Stage 1	885	-	-	-	-	-
Stage 2	667	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	490	900	1448	-	-	-
Mov Cap-2 Maneuver	490	-	-	-	-	-
Stage 1	870	-	-	-	-	-
Stage 2	667	-	-	-	-	-
Approach	WB	SE		NW		
HCM Control Delay, s/v11.05		0.5		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NWT	NWR	WBLn1	SEL	SET	
Capacity (veh/h)	-	-	653	1448	-	
HCM Lane V/C Ratio	-	-	0.089	0.017	-	
HCM Control Delay (s/veh)	-	-	11.1	7.5	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	0.3	0.1	-	

Intersection						
Int Delay, s/veh	2.4					
Movement	WBL	WBR	SEL	SET	NWT	NWR
Lane Configurations						
Traffic Vol, veh/h	35	70	38	192	396	41
Future Vol, veh/h	35	70	38	192	396	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	170	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	3	2	0	0	1	0
Mvmt Flow	39	78	42	213	440	46
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	761	463	486	0	-	0
Stage 1	463	-	-	-	-	-
Stage 2	298	-	-	-	-	-
Critical Hdwy	6.43	6.22	4.1	-	-	-
Critical Hdwy Stg 1	5.43	-	-	-	-	-
Critical Hdwy Stg 2	5.43	-	-	-	-	-
Follow-up Hdwy	3.527	3.318	2.2	-	-	-
Pot Cap-1 Maneuver	372	599	1088	-	-	-
Stage 1	632	-	-	-	-	-
Stage 2	751	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	358	599	1088	-	-	-
Mov Cap-2 Maneuver	358	-	-	-	-	-
Stage 1	607	-	-	-	-	-
Stage 2	751	-	-	-	-	-
Approach	WB	SE		NW		
HCM Control Delay, s/v	14.65	1.39		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NWT	NWR	WBLn1	SEL	SET	
Capacity (veh/h)	-	-	489	1088	-	
HCM Lane V/C Ratio	-	-	0.239	0.039	-	
HCM Control Delay (s/veh)	-	-	14.7	8.4	-	
HCM Lane LOS	-	-	B	A	-	
HCM 95th %tile Q(veh)	-	-	0.9	0.1	-	

KINSER PIKE & SR 45

TRAFFIC VOLUME COUNTS CAPACITY ANALYSIS

SR 46 & KINSER PIKE - TMC

Wed May 29, 2024

AM Peak (8-) 0 AM 1 G) 0 AMs

AILi laggeg (htnorgacd MHHnynleg I eaDys

AILMHD: ecrq

15 - 33924. 4, h hntHt-) 96C7. 37, 1C76) 883.



114

PHDded by- A&F Ecntceewtcn

C) 7. KeygHe i vggcn, Sutre 203, 1cdtacaphlg 1N, 47240, US

hen 5 tvenmHt	SHiro NHrobHicd	NHro SHrobHicd	Wegr EagbHicd	Eagr WegbHicd	
Tt: e	h T R U App	h T R U App	h T R U App	h T R U App	lcr
202410.129 8-) 0AM	37) 27 0 4.) 3 3. 39 0 7.	20 2..) 2 0) 08	30 374 8 0 3C3	. 9C
8-4. AM	23 7 27 0 .)	2) 30 22 0 ..	32) 03 47 0) . 9	2) 3CC 30 0 223	7CC
C00AM	24 30 29 0 7)	23 3. 34 0 . 0	3. 398 28 0 2) 9	2C 344 33 3 3C4	.) 7
C3. AM	27 8) 4 0 78	23 9 C 0) C	38 24)) 8 0 298	38 3) C 23 0 387	. 8C
THal	C8 27 33. 0 22C	97 49 7) 0 20C	74 997 342 0 3202	8C 7) 4 49 3 872	2400
% AppvHno) C2% 336% . 06% 0% 1	476% 2) 6%) 06% 0% 1	. 9% C26% 336% 0% 1	306% C) 6% 76% 06% 1	1
% THAl) 6% 36% 46% 0% 96 %	40% 20% 26% 0% 08%	26% 436 % . 6% 0% . 06%) 9% 276% 20% 0%) 36%	1
PI F	06) 8 06. 0 06C47 1 06C 3	0684 06C38 06837 1 06C00	06C00 06C28 0682 1 06C) 8	06797 06C4) 06 C) 06. 0 06C72	06C82
htnorgacd MHHnynleg	88 2. 333 0 23)	9) 48 . 7 0 397	. 2 9. 9 3) 0 0 3343	8C . 9C 4. 3 822	2282
% htnorgacd MHHnynleg	CC6 % 976% 976 % 0% 9) 6%	976% 9. 6% CC6% 0% 946%	C36 % 976 % 936 % 0% 946%	300% 946 % 936% 300% 946%	946%
I eaDy	30 3 4 0 3.) 2 8 0 32	32) 8 32 0 73	0) 7 4 0 40	32C
% I eaDy	336 %) 6%) 6 % 0% 76%) 6% 46% 336% 0% . 6%	366%) 6% C6 % 0% . 6%	0% . 6% C6% 0% . 6%	. 9 %

*h- hefr, R- Rtnor, T- Tow, U- UItuw

SR 46 & KINSER PIKE - TMC

Wed May 29, 2024

AM Peak (8-10 AM) 10 AMs

AILI laggeg (htnorgacd MHHmynteg, I eaDys

AILMHD: ecrg

15 - 33924. 4, hHartH(-) 96C7. 37, 1C76)883.



115

Prepared by: A&F Engineering

7. Key Highway, Sutter 203, 10000 Highway 1N, 47240, US

[N] North

Total: 347

In: 208 Out: 139

63 49 96

[W] West

Total: 1986

Out: 784

In: 1202

64

996

142

49

634

78

1

In: 762

Total: 1970

[E] East

Out: 1208

87

26

115

Out: 269 In: 228

Total: 497

[S] South

SR 46 & KINSER PIKE - TMC

Wed May 29, 2024

PM Peak (4-50 PM) O50 PMv) r l eHwPeak u ACH

s wLwiei (gh nd and MACAHylæi, u eal yv

s wMAI eDenti

:1 - 3392404, g AI adAm 59.386CB6,)86.C5773O



116

PHN lded by- s &F Ent hreeHnt

856OKeyicAnæ LHæi hnt , SCte 203, :ndhanapAdi, :N, 46240, US

get 1 HæI dAm	SACm NAHnbACnd					NAHn SACmbACnd					Weic Eai dbACnd					Eaic Wei dbACnd					
THDe	g	T	R	U	s pp	g	T	R	U	s pp	g	T	R	U	s pp	g	T	R	U	s pp	nc
2024)0Q29 4-50PM	42	55	29	0	304	29	50	57	0	96	23	264	40	3	553	33	208	00	0	537	848
4-4CPM	56	39	27	0	82	42	38	50	0	90	55	200	48	3	552	23	209	48	0	528	852
O00PM	08	23	05	0	320	57	25	52	0	92	23	204	00	3	526	23	254	06	0	533	804
O3CPM	45	54	24	0	303	29	23	58	0	88	50	284	46	0	560	30	205	64	3	555	887
TAao	372	307	355	0	432	357	92	357	0	566	330	300	389	5	3504	68	997	225	3	3289	5423
% s ppHæln	43.7%	26.0%	52.5%	0%)	57.4%	20.3%	57.4%	0%)	8.3%	77.7%	34.0%	0.2%)	Q5%	77.5%	37.5%	0.3%))
% TAao	Q0%	5.3%	5.9%	0%	32.0%	4.0%	2.7%	4.0%	0%	30.7%	5.2%	50.8%	Q0%	0.3%	59.6%	2.0%	29.3%	6.0%	0%	57.7%)
Pu F	0.845	0.787	0.627)	0.824	0.830	0.767	0.903)	0.905	0.786	0.926	0.940	0.700	0.927	0.830	0.962	0.873	0.200	0.968	0.964
gh nd and MACAHylæi	370	307	352	0	409	356	93	350	0	562	309	3057	380	5	3529	66	987	222	3	3276	5576
% gh nd and MACAHylæi	98.8%	300%	99.2%	0%	99.5%	99.5%	98.9%	98.0%	0%	98.9%	99.3%	98.6%	9Q2%	300%	98.2%	97.3%	99.0%	99.6%	300%	99.0%	98.7%
u eal y	2	0	3	0	5	3	3	2	0	4	3	30	9	0	20	2	30	3	0	35	40
% u eal y	3.2%	0%	0.8%	0%	0.7%	0.7%	3.3%	3.0%	0%	3.3%	0.9%	3.4%	4.8%	0%	3.8%	2.9%	3.0%	0.4%	0%	3.0%	3.5%

* g- gefç R- Rht nç T- TnHç U- U)TCHn

SR 46 & KINSER PIKE - TMC

Wed May 29, 2024

PM Peak (4-50 PM) O50 PMv) r l eHwPeak u ACH

s wLwiiei (ght nd and MACAHylœi, u eal yv

s wMAL eDemi

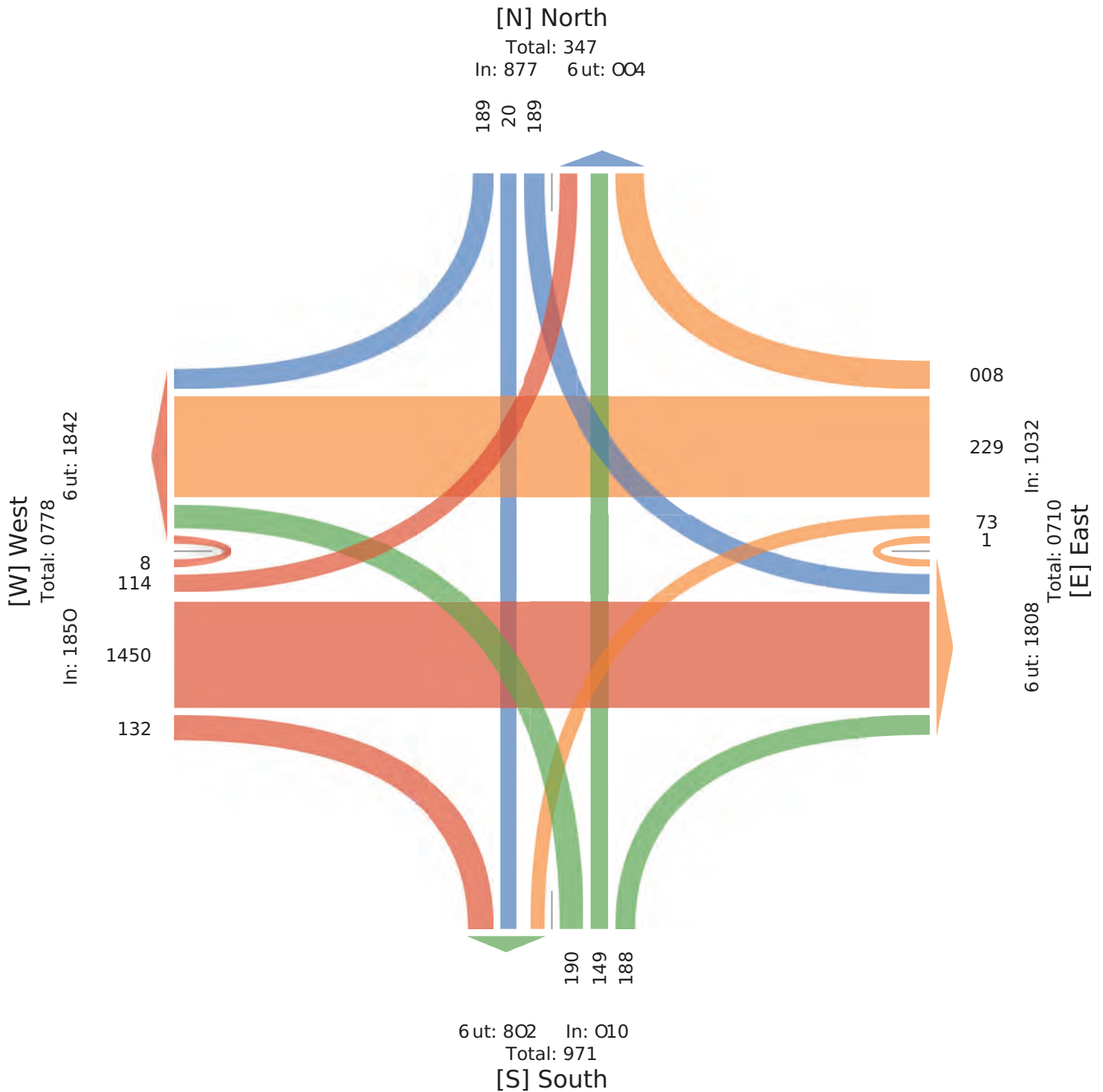
:1 - 3392404, g AladAm 59.386CB6,)86.C57730



117

PHN lded by- s &F Ent hreeHnt

856OKeyicAre LH iht , SChe 203, :ndlanapAdi, :N, 46240, US



























HCM 7th Signalized Intersection Summary

Existing AM Peak

3: Kinser Pike & SR 45

06/20/2024

























												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	64	996	142	78	634	49	87	26	115	96	49	63
Future Volume (veh/h)	64	996	142	78	634	49	87	26	115	96	49	63
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1618	1841	1767	1870	1811	1781	1722	1841	1841	1856	1841	1737
Adj Flow Rate, veh/h	74	1145	163	90	729	56	100	30	132	110	56	72
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	19	4	9	2	6	8	12	4	4	3	4	11
Cap, veh/h	356	1302	557	288	1304	572	437	54	236	377	337	270
Arrive On Green	0.08	0.37	0.37	0.09	0.38	0.38	0.09	0.18	0.18	0.09	0.18	0.18
Sat Flow, veh/h	1541	3497	1497	1781	3441	1510	1640	297	1308	1767	1841	1472
Grp Volume(v), veh/h	74	1145	163	90	729	56	100	0	162	110	56	72
Grp Sat Flow(s),veh/h/ln	1541	1749	1497	1781	1721	1510	1640	0	1605	1767	1841	1472
Q Serve(g_s), s	1.8	20.3	5.1	1.9	11.1	1.6	3.2	0.0	6.1	3.2	1.7	2.8
Cycle Q Clear(g_c), s	1.8	20.3	5.1	1.9	11.1	1.6	3.2	0.0	6.1	3.2	1.7	2.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.81	1.00		1.00
Lane Grp Cap(c), veh/h	356	1302	557	288	1304	572	437	0	289	377	337	270
V/C Ratio(X)	0.21	0.88	0.29	0.31	0.56	0.10	0.23	0.00	0.56	0.29	0.17	0.27
Avail Cap(c_a), veh/h	397	1368	585	324	1346	590	464	0	290	402	337	270
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.5	19.5	14.7	14.2	16.3	13.3	18.9	0.0	24.8	19.1	22.9	23.3
Incr Delay (d2), s/veh	0.3	6.7	0.3	0.6	0.5	0.1	0.3	0.0	2.4	0.4	0.2	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	7.9	1.5	0.6	3.6	0.5	1.2	0.0	2.4	1.3	0.7	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.8	26.2	15.0	14.8	16.8	13.4	19.2	0.0	27.3	19.5	23.1	23.8
LnGrp LOS	B	C	B	B	B	B	B		C	B	C	C
Approach Vol, veh/h	1382			875			262			238		
Approach Delay, s/veh	24.1			16.3			24.2			21.7		
Approach LOS	C			B			C			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.1	17.0	9.7	29.7	9.9	17.2	9.2	30.2				
Change Period (Y+Rc), s	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0				
Max Green Setting (Gmax), s	7.0	12.0	7.0	26.0	7.0	12.0	7.0	26.0				
Max Q Clear Time (g_c+I1), s	5.2	8.1	3.9	22.3	5.2	4.8	3.8	13.1				
Green Ext Time (p_c), s	0.0	0.3	0.0	2.4	0.0	0.2	0.0	3.8				
Intersection Summary												
HCM 7th Control Delay, s/veh	21.4											
HCM 7th LOS	C											

HCM 7th Signalized Intersection Summary

Existing PM Peak

3: Kinser Pike & SR 45

























06/06/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	110	1052	189	68	997	223	172	107	133	137	92	137
Future Volume (veh/h)	110	1052	189	68	997	223	172	107	133	137	92	137
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1885	1885	1826	1856	1885	1900	1885	1900	1885	1885	1885	1870
Adj Flow Rate, veh/h	115	1096	197	71	1039	232	179	111	139	143	96	143
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	1	1	5	3	1	0	1	0	1	1	1	2
Cap, veh/h	307	1222	528	275	1161	522	472	149	186	362	357	301
Arrive On Green	0.10	0.34	0.34	0.08	0.32	0.32	0.11	0.19	0.19	0.10	0.19	0.19
Sat Flow, veh/h	1795	3582	1547	1767	3582	1610	1795	767	960	1795	1885	1585
Grp Volume(v), veh/h	115	1096	197	71	1039	232	179	0	250	143	96	143
Grp Sat Flow(s),veh/h/ln	1795	1791	1547	1767	1791	1610	1795	0	1727	1795	1885	1585
Q Serve(g_s), s	2.5	18.4	6.1	1.6	17.5	7.2	4.9	0.0	8.6	3.9	2.8	5.1
Cycle Q Clear(g_c), s	2.5	18.4	6.1	1.6	17.5	7.2	4.9	0.0	8.6	3.9	2.8	5.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.56	1.00		1.00
Lane Grp Cap(c), veh/h	307	1222	528	275	1161	522	472	0	335	362	357	301
V/C Ratio(X)	0.37	0.90	0.37	0.26	0.89	0.44	0.38	0.00	0.75	0.40	0.27	0.48
Avail Cap(c_a), veh/h	333	1222	528	331	1188	534	480	0	335	378	357	301
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.4	19.8	15.7	14.6	20.4	16.9	17.5	0.0	24.0	17.9	21.9	22.8
Incr Delay (d2), s/veh	0.8	9.0	0.4	0.5	8.9	0.6	0.5	0.0	8.9	0.7	0.4	1.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	7.7	1.8	0.5	7.4	2.3	1.9	0.0	4.1	1.6	1.2	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	15.2	28.8	16.2	15.1	29.3	17.5	18.0	0.0	32.9	18.6	22.3	24.0
LnGrp LOS	B	C	B	B	C	B	B		C	B	C	C
Approach Vol, veh/h	1408			1342			429			382		
Approach Delay, s/veh	25.9			26.5			26.7			21.6		
Approach LOS	C			C			C			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.4	17.3	9.0	26.6	10.7	17.0	10.1	25.5				
Change Period (Y+Rc), s	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0				
Max Green Setting (Gmax), s	7.0	12.0	7.0	21.0	7.0	12.0	7.0	21.0				
Max Q Clear Time (g_c+I1), s	5.9	10.6	3.6	20.4	6.9	7.1	4.5	19.5				
Green Ext Time (p_c), s	0.0	0.2	0.0	0.4	0.0	0.4	0.1	1.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	25.7											
HCM 7th LOS	C											

HCM 7th Signalized Intersection Summary3: Kinser Pike & SR 45

Background 2029 AM Peak

























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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	67	1046	149	82	666	51	91	27	121	101	51	66
Future Volume (veh/h)	67	1046	149	82	666	51	91	27	121	101	51	66
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1618	1841	1767	1870	1811	1781	1722	1841	1841	1856	1841	1737
Adj Flow Rate, veh/h	77	1202	171	94	766	59	105	31	139	116	59	76
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	19	4	9	2	6	8	12	4	4	3	4	11
Cap, veh/h	348	1319	565	280	1321	580	430	52	233	366	332	266
Arrive On Green	0.08	0.38	0.38	0.09	0.38	0.38	0.09	0.18	0.18	0.09	0.18	0.18
Sat Flow, veh/h	1541	3497	1497	1781	3441	1510	1640	293	1312	1767	1841	1472
Grp Volume(v), veh/h	77	1202	171	94	766	59	105	0	170	116	59	76
Grp Sat Flow(s),veh/h/ln	1541	1749	1497	1781	1721	1510	1640	0	1605	1767	1841	1472
Q Serve(g_s), s	1.9	22.0	5.4	2.0	11.9	1.7	3.4	0.0	6.6	3.5	1.8	3.0
Cycle Q Clear(g_c), s	1.9	22.0	5.4	2.0	11.9	1.7	3.4	0.0	6.6	3.5	1.8	3.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.82	1.00		1.00
Lane Grp Cap(c), veh/h	348	1319	565	280	1321	580	430	0	285	366	332	266
V/C Ratio(X)	0.22	0.91	0.30	0.34	0.58	0.10	0.24	0.00	0.60	0.32	0.18	0.29
Avail Cap(c_a), veh/h	386	1348	577	312	1327	582	454	0	286	387	332	266
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.6	19.9	14.8	14.7	16.5	13.3	19.4	0.0	25.5	19.6	23.4	23.9
Incr Delay (d2), s/veh	0.3	9.4	0.3	0.7	0.6	0.1	0.3	0.0	3.3	0.5	0.3	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	8.9	1.6	0.7	3.9	0.5	1.2	0.0	2.6	1.4	0.8	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	11.9	29.3	15.1	15.4	17.1	13.4	19.7	0.0	28.8	20.1	23.6	24.5
LnGrp LOS	B	C	B	B	B	B	B		C	C	C	C
Approach Vol, veh/h	1450			919			275			251		
Approach Delay, s/veh	26.7			16.7			25.3			22.2		
Approach LOS	C			B			C			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.2	17.0	9.8	30.4	10.0	17.2	9.3	30.9				
Change Period (Y+Rc), s	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0				
Max Green Setting (Gmax), s	7.0	12.0	7.0	26.0	7.0	12.0	7.0	26.0				
Max Q Clear Time (g_c+l1), s	5.5	8.6	4.0	24.0	5.4	5.0	3.9	13.9				
Green Ext Time (p_c), s	0.0	0.3	0.0	1.4	0.0	0.2	0.0	3.9				
Intersection Summary												
HCM 7th Control Delay, s/veh	23.0											
HCM 7th LOS	C											

HCM 7th Signalized Intersection Summary

Background 2029 PM Peak

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	116	1105	198	71	1047	234	181	112	140	144	97	144
Future Volume (veh/h)	116	1105	198	71	1047	234	181	112	140	144	97	144
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1885	1885	1826	1856	1885	1900	1885	1900	1885	1885	1885	1870
Adj Flow Rate, veh/h	121	1151	206	74	1091	244	189	117	146	150	101	150
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	1	1	5	3	1	0	1	0	1	1	1	2
Cap, veh/h	299	1230	531	266	1171	526	468	149	187	351	353	296
Arrive On Green	0.10	0.34	0.34	0.08	0.33	0.33	0.11	0.19	0.19	0.10	0.19	0.19
Sat Flow, veh/h	1795	3582	1547	1767	3582	1610	1795	768	959	1795	1885	1585
Grp Volume(v), veh/h	121	1151	206	74	1091	244	189	0	263	150	101	150
Grp Sat Flow(s),veh/h/ln	1795	1791	1547	1767	1791	1610	1795	0	1727	1795	1885	1585
Q Serve(g_s), s	2.7	19.9	6.5	1.7	18.9	7.7	5.3	0.0	9.3	4.2	3.0	5.5
Cycle Q Clear(g_c), s	2.7	19.9	6.5	1.7	18.9	7.7	5.3	0.0	9.3	4.2	3.0	5.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.56	1.00		1.00
Lane Grp Cap(c), veh/h	299	1230	531	266	1171	526	468	0	336	351	353	296
V/C Ratio(X)	0.41	0.94	0.39	0.28	0.93	0.46	0.40	0.00	0.78	0.43	0.29	0.51
Avail Cap(c_a), veh/h	321	1230	531	318	1172	527	468	0	336	364	353	296
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.8	20.4	16.0	15.0	20.9	17.1	17.8	0.0	24.6	18.4	22.4	23.4
Incr Delay (d2), s/veh	0.9	13.1	0.5	0.6	13.1	0.6	0.6	0.0	11.4	0.8	0.4	1.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	9.0	1.9	0.6	8.6	2.4	2.1	0.0	4.6	1.7	1.3	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	15.6	33.5	16.4	15.6	34.0	17.8	18.4	0.0	35.9	19.2	22.8	24.8
LnGrp LOS	B	C	B	B	C	B	B		D	B	C	C
Approach Vol, veh/h	1478			1409			452			401		
Approach Delay, s/veh	29.7			30.2			28.6			22.2		
Approach LOS	C			C			C			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.5	17.5	9.1	27.0	11.0	17.0	10.2	26.0				
Change Period (Y+Rc), s	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0				
Max Green Setting (Gmax), s	7.0	12.0	7.0	21.0	7.0	12.0	7.0	21.0				
Max Q Clear Time (g_c+I1), s	6.2	11.3	3.7	21.9	7.3	7.5	4.7	20.9				
Green Ext Time (p_c), s	0.0	0.1	0.0	0.0	0.0	0.4	0.1	0.1				
Intersection Summary												
HCM 7th Control Delay, s/veh	29.0											
HCM 7th LOS	C											

HCM 7th Signalized Intersection Summary

3: Kinser Pike & SR 45

Background 2029 + Proposed AM Peak

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		 			 			 			 	
Traffic Volume (veh/h)	73	1046	149	82	666	60	91	31	121	128	60	83
Future Volume (veh/h)	73	1046	149	82	666	60	91	31	121	128	60	83
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1618	1841	1767	1870	1811	1781	1722	1841	1841	1856	1841	1737
Adj Flow Rate, veh/h	84	1202	171	94	766	69	105	36	139	147	69	95
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	19	4	9	2	6	8	12	4	4	3	4	11
Cap, veh/h	347	1314	563	278	1305	573	424	59	226	369	340	272
Arrive On Green	0.08	0.38	0.38	0.09	0.38	0.38	0.09	0.18	0.18	0.10	0.18	0.18
Sat Flow, veh/h	1541	3497	1497	1781	3441	1510	1640	331	1279	1767	1841	1472
Grp Volume(v), veh/h	84	1202	171	94	766	69	105	0	175	147	69	95
Grp Sat Flow(s),veh/h/ln	1541	1749	1497	1781	1721	1510	1640	0	1610	1767	1841	1472
Q Serve(g_s), s	2.1	22.2	5.5	2.0	12.1	2.0	3.4	0.0	6.8	4.5	2.2	3.8
Cycle Q Clear(g_c), s	2.1	22.2	5.5	2.0	12.1	2.0	3.4	0.0	6.8	4.5	2.2	3.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.79	1.00		1.00
Lane Grp Cap(c), veh/h	347	1314	563	278	1305	573	424	0	285	369	340	272
V/C Ratio(X)	0.24	0.91	0.30	0.34	0.59	0.12	0.25	0.00	0.61	0.40	0.20	0.35
Avail Cap(c_a), veh/h	380	1340	574	309	1318	578	447	0	285	380	340	272
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.8	20.1	14.9	14.8	16.8	13.7	19.6	0.0	25.8	19.9	23.4	24.1
Incr Delay (d2), s/veh	0.4	9.8	0.3	0.7	0.7	0.1	0.3	0.0	3.9	0.7	0.3	0.8
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	9.1	1.6	0.7	4.0	0.6	1.3	0.0	2.8	1.8	0.9	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	12.1	30.0	15.2	15.6	17.5	13.8	19.9	0.0	29.7	20.6	23.7	24.9
LnGrp LOS	B	C	B	B	B	B	B		C	C	C	C
Approach Vol, veh/h	1457			929			280			311		
Approach Delay, s/veh	27.2			17.0			26.0			22.6		
Approach LOS	C			B			C			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.6	17.0	9.8	30.5	10.0	17.5	9.6	30.7				
Change Period (Y+Rc), s	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0				
Max Green Setting (Gmax), s	7.0	12.0	7.0	26.0	7.0	12.0	7.0	26.0				
Max Q Clear Time (g_c+I1), s	6.5	8.8	4.0	24.2	5.4	5.8	4.1	14.1				
Green Ext Time (p_c), s	0.0	0.3	0.0	1.3	0.0	0.3	0.0	3.9				
Intersection Summary												
HCM 7th Control Delay, s/veh	23.4											
HCM 7th LOS	C											

HCM 7th Signalized Intersection Summary

3: Kinser Pike & SR 45

Background 2029 + Proposed PM Peak

06/20/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		 			 			 			 	
Traffic Volume (veh/h)	135	1105	198	71	1047	264	181	122	140	162	103	156
Future Volume (veh/h)	135	1105	198	71	1047	264	181	122	140	162	103	156
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Adj Sat Flow, veh/h/ln	1885	1885	1826	1856	1885	1900	1885	1900	1885	1885	1885	1870
Adj Flow Rate, veh/h	141	1151	206	74	1091	275	189	127	146	169	107	162
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	1	1	5	3	1	0	1	0	1	1	1	2
Cap, veh/h	303	1240	535	267	1167	525	460	154	177	342	351	295
Arrive On Green	0.10	0.35	0.35	0.08	0.33	0.33	0.11	0.19	0.19	0.10	0.19	0.19
Sat Flow, veh/h	1795	3582	1547	1767	3582	1610	1795	806	927	1795	1885	1585
Grp Volume(v), veh/h	141	1151	206	74	1091	275	189	0	273	169	107	162
Grp Sat Flow(s),veh/h/ln	1795	1791	1547	1767	1791	1610	1795	0	1733	1795	1885	1585
Q Serve(g_s), s	3.2	20.0	6.5	1.7	19.0	8.9	5.3	0.0	9.7	4.8	3.2	6.0
Cycle Q Clear(g_c), s	3.2	20.0	6.5	1.7	19.0	8.9	5.3	0.0	9.7	4.8	3.2	6.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.53	1.00		1.00
Lane Grp Cap(c), veh/h	303	1240	535	267	1167	525	460	0	332	342	351	295
V/C Ratio(X)	0.46	0.93	0.38	0.28	0.93	0.52	0.41	0.00	0.82	0.49	0.30	0.55
Avail Cap(c_a), veh/h	319	1240	535	318	1167	525	460	0	332	352	351	295
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.9	20.3	15.9	15.1	21.1	17.7	18.0	0.0	25.0	18.8	22.6	23.8
Incr Delay (d2), s/veh	1.1	12.2	0.5	0.6	13.6	1.0	0.6	0.0	15.2	1.1	0.5	2.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	8.8	1.9	0.6	8.7	2.9	2.1	0.0	5.2	1.9	1.4	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	16.0	32.5	16.3	15.6	34.6	18.6	18.6	0.0	40.2	19.9	23.1	25.9
LnGrp LOS	B	C	B	B	C	B	B		D	B	C	C
Approach Vol, veh/h	1498			1440			462			438		
Approach Delay, s/veh	28.7			30.6			31.4			22.9		
Approach LOS	C			C			C			C		
Timer - Assigned Phs	1	2	3	4	5	6	7	8				
Phs Duration (G+Y+Rc), s	10.7	17.3	9.1	27.3	11.0	17.0	10.4	26.0				
Change Period (Y+Rc), s	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0				
Max Green Setting (Gmax), s	7.0	12.0	7.0	21.0	7.0	12.0	7.0	21.0				
Max Q Clear Time (g_c+I1), s	6.8	11.7	3.7	22.0	7.3	8.0	5.2	21.0				
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0				
Intersection Summary												
HCM 7th Control Delay, s/veh	29.1											
HCM 7th LOS	C											

ACUFF ROAD & PROW ROAD

SEGMENT COUNTS
MULTI-WAY STOP ANALYSIS
CAPACITY ANALYSIS

Basic Axle Classification Report: PROW NB

Station ID : PROW NB

Info Line 1 :

Info Line 2 :

GPS Lat/Lon :

DB File : PROW NB.DB

Last Connected Device Type : OmegaX3

Version Number : 2.07

Serial Number : XA46356

Number of Lanes : 1

Posted Speed Limit : 0.0 mph

Lane #1 Configuration

#	Dir.	Information	Vehicle Sensors	Sensor Spacing	Loop Length	Comment
1.	North		Ax-Ax	4.0 ft	6.0 ft	

Lane #1 Basic Axle Classification Data From: 00:00 - 05/29/2024 To: 00:14 - 05/30/2024

(DEFAULTC)		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	Total
Date	Time	Cycle	Cars	2A-4T	Buses	2A-SU	3A-SU	4A-SU	4A-ST	5A-ST	6A-ST	5A-MT	6A-MT	Other	
05/29/24	00:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Wed	00:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	00:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05:30	0	1	0	0	1	0	0	0	0	0	0	0	0	2
	05:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	06:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	06:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	06:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	06:45	1	1	0	0	0	0	0	0	0	0	0	0	0	2
	07:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	07:15	0	0	2	0	0	0	0	0	0	0	0	0	0	2
	07:30	0	0	2	0	0	0	0	0	0	0	0	0	0	2
	07:45	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	08:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	08:15	0	4	3	0	1	0	0	0	0	0	0	0	0	8
	08:30	0	2	1	0	0	0	0	0	0	0	0	0	0	3

(DEFAULTC)		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	Total
Date	Time	Cycle	Cars	2A-4T	Buses	2A-SU	3A-SU	4A-SU	4A-ST	5A-ST	6A-ST	5A-MT	6A-MT	Other	
05/29/24	08:45	1	5	2	0	1	0	0	0	0	0	0	0	0	9
Wed	09:00	0	3	2	0	0	0	0	0	0	0	0	0	0	5
	09:15	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	09:30	0	4	5	0	0	0	0	0	0	0	0	0	0	9
	09:45	0	2	2	0	0	0	0	0	0	0	0	0	0	4
	10:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	10:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	10:30	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	10:45	0	3	2	0	0	0	0	0	0	0	0	0	0	5
	11:00	0	7	0	0	0	0	0	0	0	0	0	0	0	7
	11:15	0	7	4	0	0	0	0	0	0	0	0	0	0	11
	11:30	0	6	4	0	0	0	0	0	0	0	0	0	0	10
	11:45	0	3	1	0	1	0	0	0	0	0	0	0	0	5
	12:00	0	5	1	0	0	0	0	0	0	0	0	0	0	6
	12:15	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	12:30	0	4	3	0	0	0	0	0	0	0	0	0	0	7
	12:45	0	6	2	0	0	0	0	0	0	0	0	0	0	8
	13:00	0	3	1	0	0	0	0	0	0	0	0	0	0	4
	13:15	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	13:30	0	6	1	0	0	0	0	0	0	0	0	0	0	7
	13:45	0	5	3	0	0	0	0	0	0	0	0	0	0	8
	14:00	0	5	1	0	0	0	1	0	0	0	0	0	0	7
	14:15	0	5	2	0	0	0	0	0	0	0	0	0	0	7
	14:30	0	5	0	0	0	0	0	0	0	0	0	0	0	5
	14:45	0	9	0	0	1	0	0	0	0	0	0	0	0	10
	15:00	0	7	5	0	0	0	0	0	0	0	0	0	0	12
	15:15	0	1	1	0	1	0	0	0	0	0	0	0	0	3
	15:30	0	9	1	0	0	0	0	0	0	0	0	0	0	10
	15:45	0	9	2	0	1	0	0	0	0	0	0	0	0	12
	16:00	0	9	2	0	0	0	0	0	0	0	0	0	0	11
	16:15	0	7	1	0	1	0	0	1	0	0	0	0	0	10
	16:30	0	6	2	0	0	0	0	0	0	0	0	0	0	8
	16:45	0	2	4	0	2	0	0	0	0	0	0	0	0	8
	17:00	0	5	4	0	0	0	0	0	0	0	0	0	0	9
	17:15	0	11	3	0	0	0	0	0	0	0	0	0	0	14
	17:30	0	5	1	0	0	0	0	0	0	0	0	0	0	6
	17:45	0	7	1	0	0	0	0	0	0	0	0	0	0	8
	18:00	0	3	3	0	0	0	0	0	0	0	0	0	0	6
	18:15	0	5	2	0	0	0	0	0	0	0	0	0	0	7
	18:30	0	9	2	0	0	0	0	0	0	0	0	0	0	11
	18:45	0	2	2	0	0	0	0	0	0	0	0	0	0	4
	19:00	1	2	2	0	0	0	0	0	0	0	0	0	0	5
	19:15	0	0	3	0	0	0	0	0	0	0	0	0	0	3
	19:30	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	19:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	20:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	20:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20:30	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	20:45	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	21:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
	21:15	1	4	1	0	0	0	0	0	0	0	0	0	0	6

(DEFAULTC)		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	Total
Date	Time	Cycle	Cars	2A-4T	Buses	2A-SU	3A-SU	4A-SU	4A-ST	5A-ST	6A-ST	5A-MT	6A-MT	Other	
05/29/24	21:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Wed	21:45	0	4	1	0	0	0	0	0	0	0	0	0	0	5
	22:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	22:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	22:30	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	22:45	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	23:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	23:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	23:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	23:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	Daily Total :	4	264	94	0	10	0	1	1	0	0	0	0	0	374
	Percent :	1%	71%	25%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	
	Average :	0	3	1	0	0	0	0	0	0	0	0	0	0	4

Lane #2 Configuration

#	Dir.	Information	Vehicle Sensors	Sensor Spacing	Loop Length	Comment
2.	South		Ax-Ax	4.0 ft	6.0 ft	

Lane #2 Basic Axle Classification Data From: 00:00 - 05/29/2024 To: 00:14 - 05/30/2024

(DEFAULTC)		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	Total
Date	Time	Cycle	Cars	2A-4T	Buses	2A-SU	3A-SU	4A-SU	4A-ST	5A-ST	6A-ST	5A-MT	6A-MT	Other	
05/29/24	00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wed	00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	04:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	04:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	05:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	05:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	05:30	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	05:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	06:00	0	4	0	0	0	0	0	0	0	0	0	0	0	4
	06:15	0	1	0	0	1	0	0	0	0	0	0	0	0	2
	06:30	0	1	3	0	0	0	0	0	0	0	0	0	0	4
	06:45	0	2	4	0	0	0	0	0	0	0	0	0	0	6
	07:00	0	5	1	0	0	0	0	0	0	0	0	0	0	6
	07:15	0	1	3	0	1	0	0	0	0	0	0	0	0	5
	07:30	0	8	2	0	0	0	0	0	0	0	0	0	0	10
	07:45	0	6	3	0	2	0	0	0	0	0	0	0	0	11
	08:00	0	3	2	0	0	1	0	0	0	0	0	0	0	6
	08:15	0	10	2	0	0	1	0	0	0	0	0	0	0	13
	08:30	0	5	0	0	0	0	0	0	0	0	0	0	0	5
	08:45	0	5	6	0	0	0	1	0	0	0	0	0	0	12
	09:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	09:15	0	5	1	0	0	1	0	0	0	0	0	0	0	7
	09:30	0	3	3	0	0	0	0	0	0	0	0	0	0	6
	09:45	0	6	5	0	0	0	0	0	0	0	0	0	0	11
	10:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
	10:15	0	5	3	0	1	0	0	0	0	0	0	0	0	9
	10:30	0	3	2	0	0	0	0	0	0	0	0	0	0	5

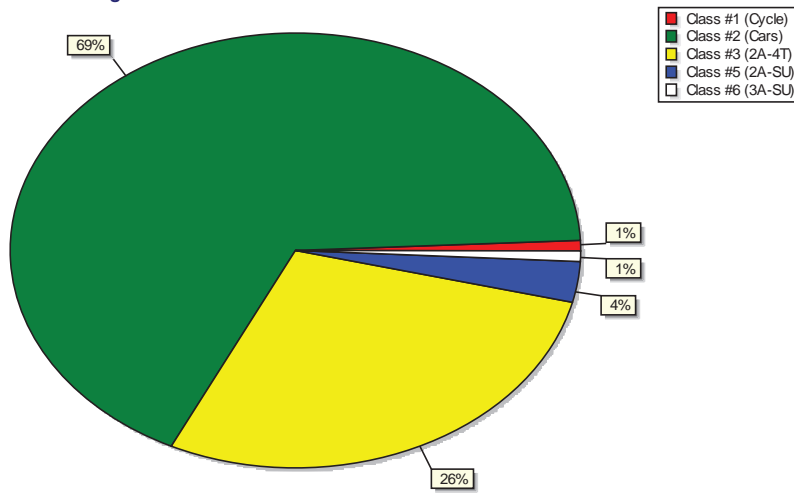
(DEFAULTC)		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	Total
Date	Time	Cycle	Cars	2A-4T	Buses	2A-SU	3A-SU	4A-SU	4A-ST	5A-ST	6A-ST	5A-MT	6A-MT	Other	
05/29/24	10:45	0	4	2	0	0	0	0	0	0	0	0	0	0	6
Wed	11:00	0	8	2	0	0	0	0	0	0	0	0	0	0	10
	11:15	0	6	4	0	1	0	0	0	0	0	0	0	0	11
	11:30	1	5	2	0	1	0	0	0	0	0	0	0	0	9
	11:45	0	6	4	0	0	0	0	0	0	0	0	0	0	10
	12:00	0	2	1	0	1	0	0	0	0	0	0	0	0	4
	12:15	0	4	0	0	1	0	0	0	0	0	0	0	0	5
	12:30	0	5	2	0	0	0	0	0	0	0	0	0	0	7
	12:45	0	5	0	0	0	0	0	0	0	0	0	0	0	5
	13:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	13:15	0	2	3	0	1	0	0	0	0	0	0	0	0	6
	13:30	0	7	2	0	0	0	0	0	0	0	0	0	0	9
	13:45	0	5	1	0	0	0	0	0	0	0	0	0	0	6
	14:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
	14:15	0	6	0	0	1	0	0	0	0	0	0	0	0	7
	14:30	0	8	3	0	1	0	0	0	0	0	0	0	0	12
	14:45	0	8	1	0	0	0	0	0	0	0	0	0	0	9
	15:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
	15:15	0	3	3	0	1	0	0	0	0	0	0	0	0	7
	15:30	0	5	2	0	0	0	0	0	0	0	0	0	0	7
	15:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
	16:00	0	7	2	0	0	0	0	0	0	0	0	0	0	9
	16:15	0	9	2	0	2	0	0	0	0	0	0	0	0	13
	16:30	0	5	3	0	0	0	0	0	0	0	0	0	0	8
	16:45	0	10	4	0	0	1	0	0	0	0	0	0	0	15
	17:00	0	7	1	0	1	0	0	0	0	0	0	0	0	9
	17:15	0	5	0	0	1	0	0	0	0	0	0	0	0	6
	17:30	0	6	2	0	0	0	0	0	0	0	0	0	0	8
	17:45	0	1	3	0	0	0	0	0	0	0	0	0	0	4
	18:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
	18:15	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	18:30	0	2	1	0	1	0	0	0	0	0	0	0	0	4
	18:45	0	8	0	0	0	0	0	0	0	0	0	0	0	8
	19:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
	19:15	0	1	0	0	1	0	0	0	0	0	0	0	0	2
	19:30	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	19:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	20:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
	20:15	0	4	0	0	1	0	0	0	0	0	0	0	0	5
	20:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	20:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
	21:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	21:15	0	0	3	0	1	0	0	0	0	0	0	0	0	4
	21:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	21:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
	22:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	22:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
	23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	23:15	0	0	1	0	0	0	0	0	0	0	0	0	0	1

(DEFAULTC)		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	Total
Date	Time	Cycle	Cars	2A-4T	Buses	2A-SU	3A-SU	4A-SU	4A-ST	5A-ST	6A-ST	5A-MT	6A-MT	Other	
05/29/24	23:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wed	23:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Daily Total :		1	281	108	0	21	4	1	0	0	0	0	0	0	416
Percent :		0%	68%	26%	0%	5%	1%	0%	0%	0%	0%	0%	0%	0%	
Average :		0	3	1	0	0	0	0	0	0	0	0	0	0	4

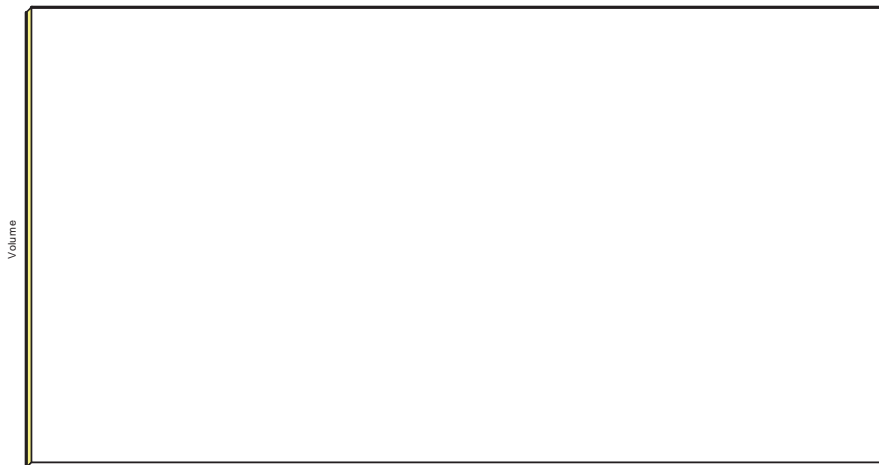
Basic Axle Class Summary: PROW NB

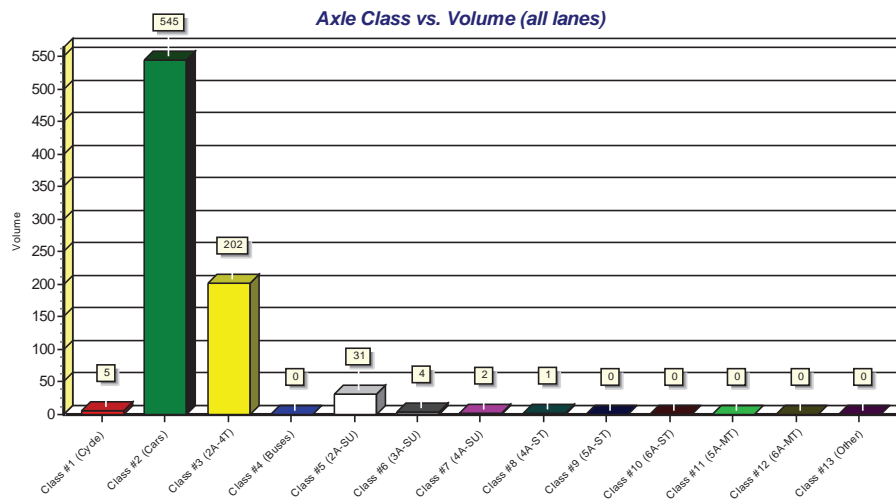
(DEFAULTC)		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	Total
Description	Lane	Cycle	Cars	2A-4T	Buses	2A-SU	3A-SU	4A-SU	4A-ST	5A-ST	6A-ST	5A-MT	6A-MT	Other	
TOTAL COUNT :	#1.	4	264	94	0	10	0	1	1	0	0	0	0	0	374
	#2.	1	281	108	0	21	4	1	0	0	0	0	0	0	416
		5	545	202	0	31	4	2	1	0	0	0	0	0	790
Percents :	#1.	1%	71%	25%	0%	3%	0%	0%	0%	0%	0%	0%	0%	0%	47%
	#2.	0%	68%	26%	0%	5%	1%	0%	0%	0%	0%	0%	0%	0%	53%
		1%	69%	26%	0%	4%	1%	0%	0%	0%	0%	0%	0%	0%	
Average :	#1.	0	3	1	0	0	0	0	0	0	0	0	0	0	4
	#2.	0	3	1	0	0	0	0	0	0	0	0	0	0	4
		0	6	2	0	0	0	0	0	0	0	0	0	0	8
Days & ADT :	#1.	1.0	374												
	#2.	1.0	416												
		1.0	790												

Axle Class Percentages:



Axle Class vs. Time (all lanes)





Traffic Signal Warrant Analysis

Multi-Way Stop Warrant

Project Name	Beacon Builders
Project/File #	24047S
Scenario	Future

Intersection Information			
Major Street (N/S Road)	Prow Road	Minor Street (E/W Road)	Acuff Road
Analyzed with	1 approach lane	Analyzed with	1 Approach Lane
Total Approach Volume	558 vehicles	Total Approach Volume	530 vehicles
Total Ped/Bike Volume	0 crossings	Total Ped/Bike Volume	0 crossings
Right turn reduction of	0 percent applied	Right turn reduction of	0 percent applied

No high speed or isolated community reduction applied to the Multi-Way Stop Warrant thresholds.

Condition A - Traffic Signal Warrant	
Condition Satisfied?	Not Satisfied
Criteria*	Traffic Signal Warranted & Justified




* Multi-way stop control may be used as an interim measure that can be installed quickly to control traffic while arrangements are being made for the installation of the traffic control signal.




Condition B - Crash Experience	
Condition Satisfied?	Not satisfied
Required values reached for	less than 4 correctable crashes
Criteria - Crash Experience	5 or more correctable crashes in 12-month period

Condition C - Intersection Volume & Delay	
Condition Satisfied?	Not Satisfied
Required values reached for	0 hours & 5.7 sec. average delay/veh
Criteria - Major Street (veh/hr)	300 for any 8 hours of an average day
Criteria - Minor Street (total vol-veh, ped, & bikes/hr)	200 for the same 8 hours of an average day
Criteria - Delay (average sec/veh)	30 during the highest hour

Condition D - Combination Volume, Crash Experience, & Delay	
Condition Satisfied?	Not Satisfied
Required values reached for	0 hours, less than 4 crashes, & 5.7 sec. average delay/veh
Criteria - Major Street (veh/hr)	240 for any 8 hours of an average day
Criteria - Minor Street (total vol-veh, ped, & bikes/hr)	160 for the same 8 hours of an average day
Criteria - Crash Experience	4 or more correctable crashes in 12-month period
Criteria - Delay (average sec/veh)	24 during the highest hour

Spack Academy is part of the Spack Enterprise family of companies

Intersection						
Int Delay, s/veh	5.7					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	45	2	1	23	7	4
Future Vol, veh/h	45	2	1	23	7	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	49	2	1	25	8	4
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	33	14	0	0	26	0
Stage 1	14	-	-	-	-	-
Stage 2	20	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	980	1066	-	-	1588	-
Stage 1	1009	-	-	-	-	-
Stage 2	1003	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	976	1066	-	-	1588	-
Mov Cap-2 Maneuver	976	-	-	-	-	-
Stage 1	1009	-	-	-	-	-
Stage 2	998	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/v	8.88	0		4.63		
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	979	1145	-	
HCM Lane V/C Ratio	-	-	0.052	0.005	-	
HCM Control Delay (s/veh)	-	-	8.9	7.3	0	
HCM Lane LOS	-	-	A	A	A	
HCM 95th %tile Q(veh)	-	-	0.2	0	-	

Intersection						
Int Delay, s/veh	4.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	43	8	6	46	5	3
Future Vol, veh/h	43	8	6	46	5	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	47	9	7	50	5	3
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	46	32	0	0	57	0
Stage 1	32	-	-	-	-	-
Stage 2	14	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	964	1042	-	-	1548	-
Stage 1	991	-	-	-	-	-
Stage 2	1009	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	961	1042	-	-	1548	-
Mov Cap-2 Maneuver	961	-	-	-	-	-
Stage 1	991	-	-	-	-	-
Stage 2	1005	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v	8.92	0	4.58			
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	SBL	SBT		
Capacity (veh/h)	-	-	973	1125	-	
HCM Lane V/C Ratio	-	-	0.057	0.004	-	
HCM Control Delay (s/veh)	-	-	8.9	7.3	0	
HCM Lane LOS	-	-	A	A	A	
HCM 95th %tile Q(veh)	-	-	0.2	0	-	

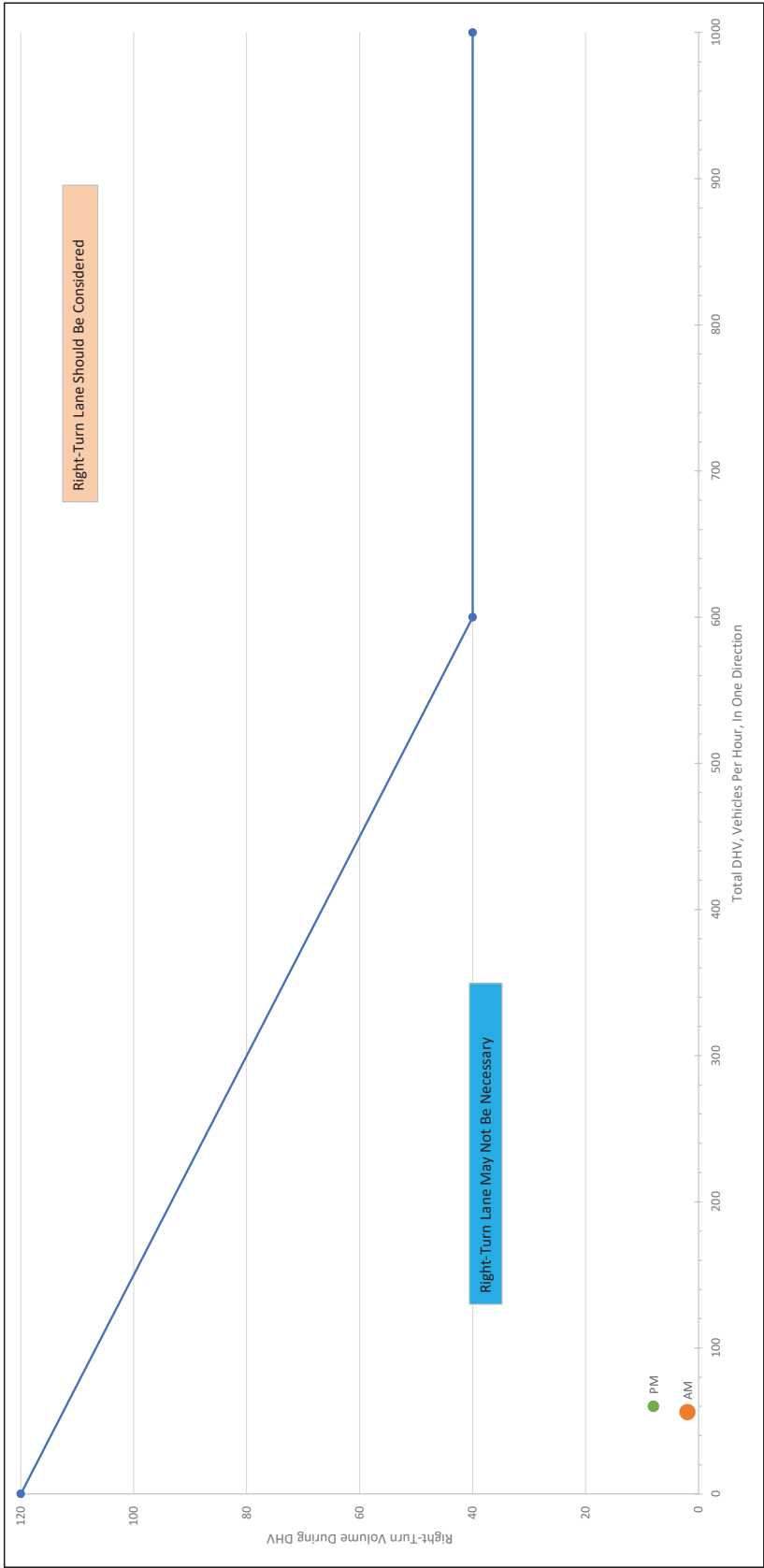
KINSER PIKE & PROSED ACCESS DRIVE

TURN LANE WARRANTS CAPACITY ANALYSIS

Kinser Pike & Access Drive

Time	Input		Met?
AM	RT Volume	2	NO
	Total Volume	56	
PM	RT Volume	8	NO
	Total Volume	60	

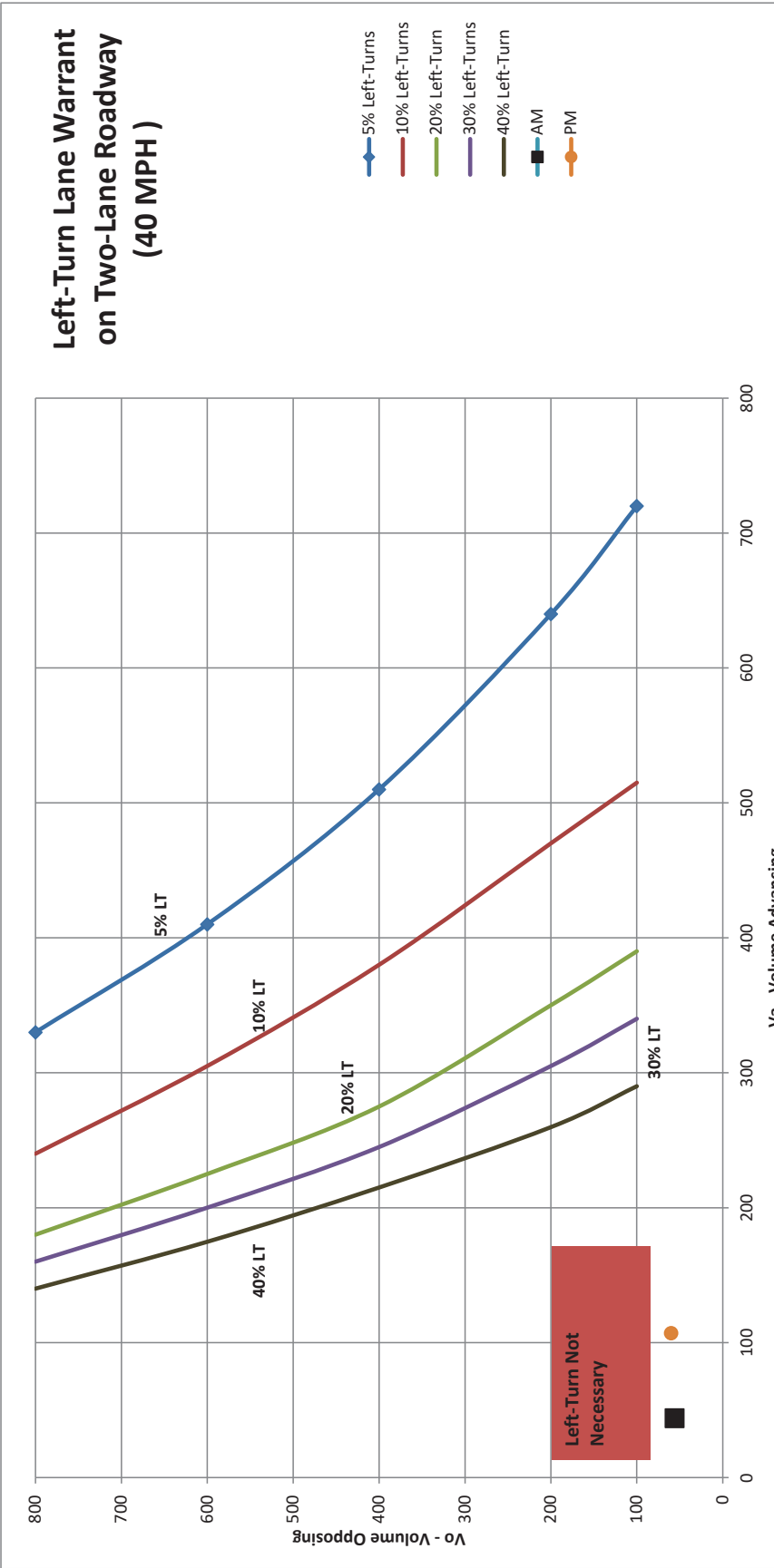
Total Volume	RT Volume
0	120
600	40
1000	40






Kinser Pike & Access Drive - Background + Proposed

Operating Speed (mph)	Opposing Volume (veh/h)	Advancing Volume (veh/h)							
		5% Left Turns	10% Left Turns	15% Left Turns	20% Left Turns	25% Left Turns	30% Left Turns	35% Left Turns	40% Left Turns
40	800	330	240	210	180	170	160	150	140
	600	410	305	265	225	213	200	187	175
	400	510	380	328	275	260	245	230	215
	200	640	470	410	350	328	305	282	260
	100	720	515	453	390	365	340	315	290

INPUT				Warrant?
Advancing Volume (Va)	Opposing Volume (Vo)	Left-turn Volume	Left-turn %	
44	56	11	25%	NO
107	60	35	33%	
107	60	35	33%	






Intersection						
Int Delay, s/veh	3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	7	31	11	33	54	2
Future Vol, veh/h	7	31	11	33	54	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	34	12	36	59	2
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	120	60	61	0	-	0
Stage 1	60	-	-	-	-	-
Stage 2	60	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	876	1006	1542	-	-	-
Stage 1	963	-	-	-	-	-
Stage 2	963	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	869	1006	1542	-	-	-
Mov Cap-2 Maneuver	869	-	-	-	-	-
Stage 1	955	-	-	-	-	-
Stage 2	963	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s/v	8.85	1.84		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	450	-	977	-	-	
HCM Lane V/C Ratio	0.008	-	0.042	-	-	
HCM Control Delay (s/veh)	7.4	0	8.8	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	

HCM 7th TWSC
18: Kinser Pike & Access

Background 2029 + Proposed PM Peak

06/20/2024

Intersection						
Int Delay, s/veh	2.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	5	21	35	72	52	8
Future Vol, veh/h	5	21	35	72	52	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	23	38	78	57	9
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	215	61	65	0	-	0
Stage 1	61	-	-	-	-	-
Stage 2	154	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	773	1004	1537	-	-	-
Stage 1	962	-	-	-	-	-
Stage 2	874	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	753	1004	1537	-	-	-
Mov Cap-2 Maneuver	753	-	-	-	-	-
Stage 1	937	-	-	-	-	-
Stage 2	874	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s/v	8.93	2.42		0		
HCM LOS	A					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	589	-	944	-	-	
HCM Lane V/C Ratio	0.025	-	0.03	-	-	
HCM Control Delay (s/veh)	7.4	0	8.9	-	-	
HCM Lane LOS	A	A	A	-	-	
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-	

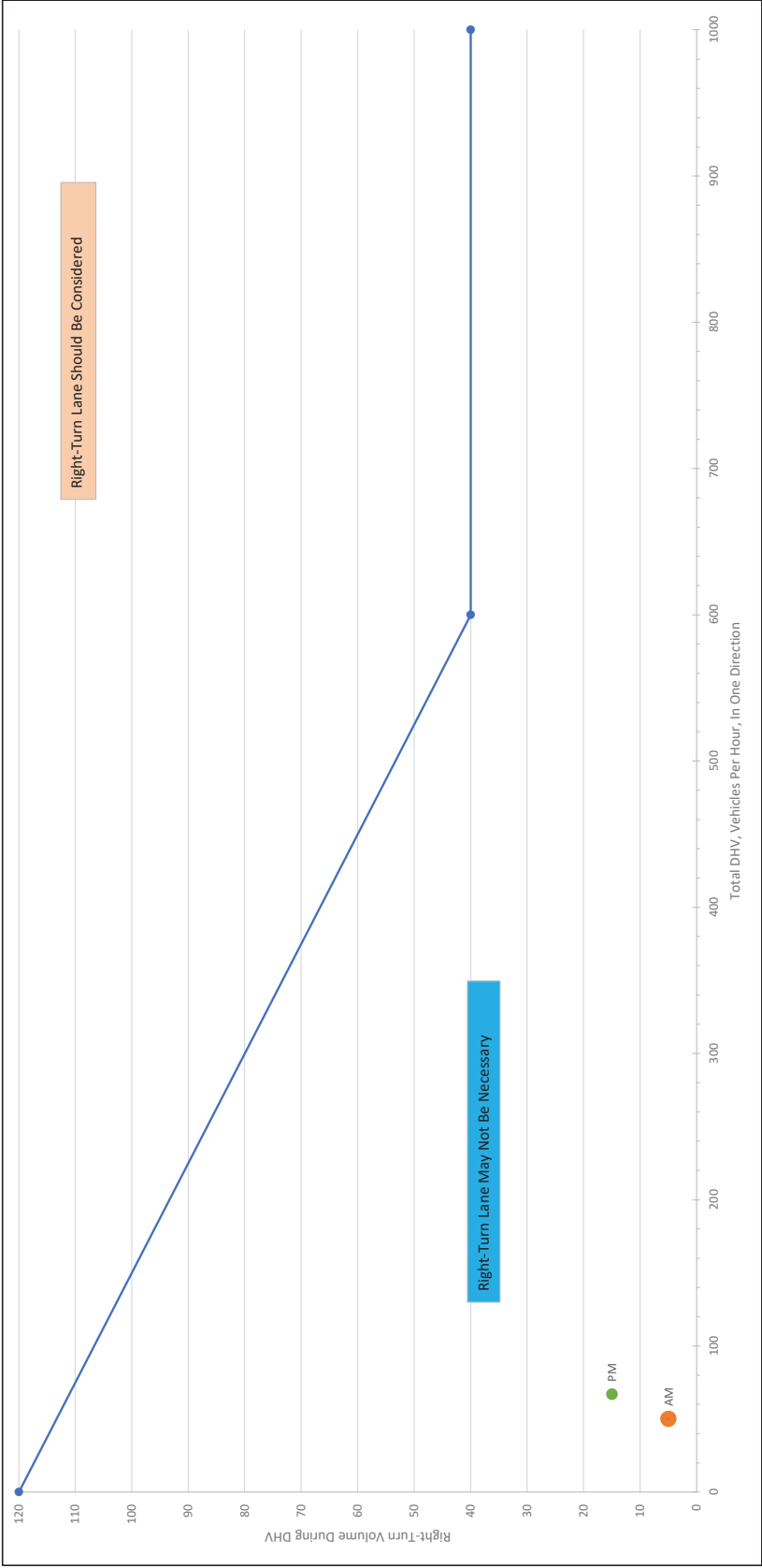
ACUFF ROAD & PROSED ACCESS DRIVE

TURN LANE WARRANTS CAPACITY ANALYSIS

Acuff Road & Access Drive

Time	Input		Met?
AM	RT Volume	5	NO
	Total Volume	50	
PM	RT Volume	15	NO
	Total Volume	67	

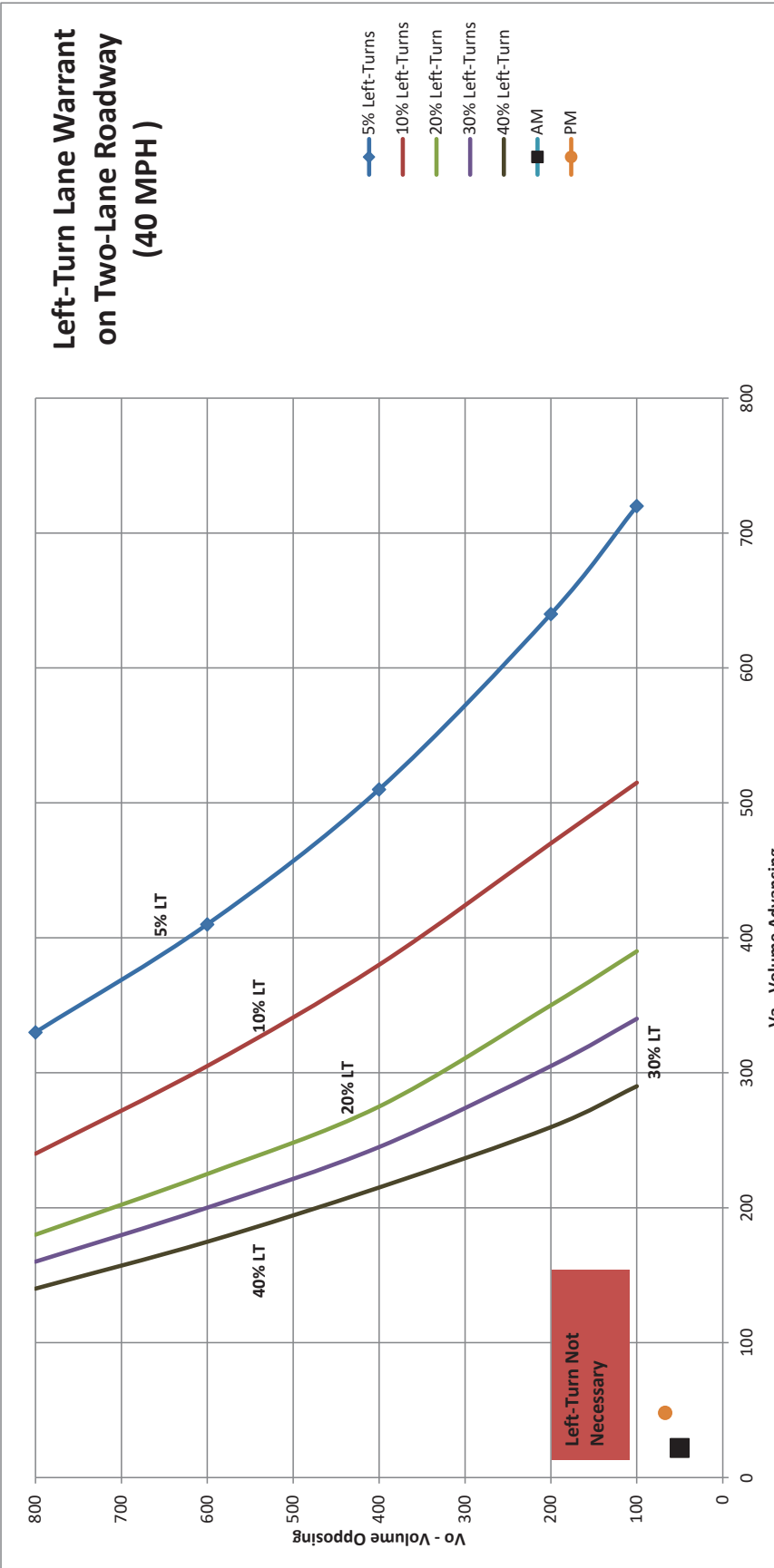
Total Volume	RT Volume
0	120
600	40
1000	40



Acuff Road & Access Drive - Background + Proposed

Operating Speed (mph)	Opposing Volume (veh/h)	Advancing Volume (veh/h)							
		5% Left Turns	10% Left Turns	15% Left Turns	20% Left Turns	25% Left Turns	30% Left Turns	35% Left Turns	40% Left Turns
40	800	330	240	210	180	170	160	150	140
	600	410	305	265	225	213	200	187	175
	400	510	380	328	275	260	245	230	215
	200	640	470	410	350	328	305	282	260
	100	720	515	453	390	365	340	315	290

INPUT				Warrant?
Advancing Volume (Va)	Opposing Volume (Vo)	Left-turn Volume	Left-turn %	
22	50	1	5%	NO
50	1			
PM	Advancing Volume (Va)	48		NO
	Opposing Volume (Vo)	67		
	Left-turn Volume	2		
	Left-turn %	4%		



HCM 7th TWSC
14: Acuff Rd & Access

Background 2029 + Proposed AM Peak





06/20/2024

Intersection												
Int Delay, s/veh	2.8											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	20	1	3	42	5	2	0	11	14	0	2
Future Vol, veh/h	1	20	1	3	42	5	2	0	11	14	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	22	1	3	46	5	2	0	12	15	0	2
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	51	0	0	23	0	0	77	82	22	79	80	48
Stage 1	-	-	-	-	-	-	24	24	-	55	55	-
Stage 2	-	-	-	-	-	-	52	58	-	24	25	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1555	-	-	1592	-	-	913	808	1055	910	810	1020
Stage 1	-	-	-	-	-	-	993	875	-	957	849	-
Stage 2	-	-	-	-	-	-	961	847	-	994	874	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1555	-	-	1592	-	-	908	806	1055	897	808	1020
Mov Cap-2 Maneuver	-	-	-	-	-	-	908	806	-	897	808	-
Stage 1	-	-	-	-	-	-	993	874	-	955	847	-
Stage 2	-	-	-	-	-	-	956	845	-	982	874	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	0.33			0.44			8.55			9.03		
HCM LOS							A			A		
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)	1029	81	-	-	106	-	-	911				
HCM Lane V/C Ratio	0.014	0.001	-	-	0.002	-	-	0.019				
HCM Control Delay (s/veh)	8.5	7.3	0	-	7.3	0	-	9				
HCM Lane LOS	A	A	A	-	A	A	-	A				
HCM 95th %tile Q(veh)	0	0	-	-	0	-	-	0.1				

HCM 7th TWSC
14: Acuff Rd & Access

Background 2029 + Proposed PM Peak

06/20/2024

Intersection												
Int Delay, s/veh	2											
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	43	3	12	40	15	2	0	6	9	0	1
Future Vol, veh/h	2	43	3	12	40	15	2	0	6	9	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	2	47	3	13	43	16	2	0	7	10	0	1
Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	60	0	0	50	0	0	122	139	48	129	132	52
Stage 1	-	-	-	-	-	-	53	53	-	78	78	-
Stage 2	-	-	-	-	-	-	70	86	-	51	54	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1544	-	-	1557	-	-	852	752	1020	844	759	1016
Stage 1	-	-	-	-	-	-	960	851	-	931	830	-
Stage 2	-	-	-	-	-	-	940	824	-	962	850	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1544	-	-	1557	-	-	843	745	1020	830	751	1016
Mov Cap-2 Maneuver	-	-	-	-	-	-	843	745	-	830	751	-
Stage 1	-	-	-	-	-	-	959	850	-	923	823	-
Stage 2	-	-	-	-	-	-	931	817	-	954	848	-
Approach	EB			WB			NB			SB		
HCM Control Delay, s/v	0.31			1.31			8.75			9.31		
HCM LOS							A			A		
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1				
Capacity (veh/h)	969	74	-	-	306	-	-	846				
HCM Lane V/C Ratio	0.009	0.001	-	-	0.008	-	-	0.013				
HCM Control Delay (s/veh)	8.7	7.3	0	-	7.3	0	-	9.3				
HCM Lane LOS	A	A	A	-	A	A	-	A				
HCM 95th %tile Q(veh)	0	0	-	-	0	-	-	0				



Alt & Witzig Engineering, Inc.

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December 29, 2023

Beacon Builders
122 Meander Way
Greenwood, Indiana 46140
Attention: Mr. Bill Evans

Report of Geotechnical Investigation and Foundation Recommendations

RE: Kinsington Place Subdivision
W. Acuff Road and N. Kinser Pike
Bloomington, Indiana
A&W Project No.: 23IN0698

Dear Mr. Bill Evans:

In compliance with your request, Alt & Witzig Engineering, Inc. has completed a subsurface investigation for the above-mentioned Site. The statement of objectives, scope of work, and results of our investigation are presented in the following report. It is our pleasure to transmit one (1) electronic (.pdf) report.

The results of our test borings and laboratory tests completed to date are presented in the appendix of the report. Our recommendations for the project are presented in the "Geotechnical Analysis and Recommendations" section of the report. If you have any questions or comments regarding this matter, please contact us at your convenience.

Sincerely,
ALT & WITZIG ENGINEERING, INC.

David C. Harness, P.E.



Offices:

Cincinnati • Columbus, Ohio • Hebron, Kentucky
Indianapolis • Evansville • Ft. Wayne • Lafayette • Merrillville, Indiana

***Subsurface Investigation and Foundation Engineering
Construction Materials Testing and Inspection
Environmental Services***

GEOTECHNICAL INVESTIGATION & FOUNDATION RECOMMENDATIONS

**KINSINGTON PLACE SUBDIVISION
W. ACUFF ROAD AND N. KINSER PIKE
BLOOMINGTON, INDIANA
A&W PROJECT No.: 23IN0698**

**PREPARED FOR:
BEACON BUILDERS
GREENWOOD, INDIANA**

**PREPARED BY:
ALT & WITZIG ENGINEERING, INC.
GEOTECHNICAL DIVISION**

DECEMBER 29, 2023

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INTRODUCTION

In compliance with your request, we have completed a geotechnical investigation at the above referenced site for the proposed Beacon Builders Subdivision to be located at the southeast corner of W. Acuff Road and N. Kinser Pike on the north side of Bloomington, Indiana (*Exhibit 1a*).

Exhibit 1a: Image of Site, Google Earth



This investigation was performed for Beacon Builders. The proposed statement of objectives and scope of work were outlined in the form of A&W Proposal Number 2311G032 duly authorized by Beacon Builders.

The soil boring layout overlaid onto Google Earth aerial photography is shown in Exhibit 1b.

Exhibit 1b: Soil Boring Layout, Google Earth



Project Description

The purpose of this subsurface investigation was to determine the soil profile and the engineering characteristics of the subsurface materials on the proposed development.

A topographic map produced by the client was relied upon as part of this investigation. The pdf document file *Kinsington Place Conceptual alternative 11-14-23*.

The scope of this investigation included a review of geological maps of the area and a review of geologic and related literature, a reconnaissance of the immediate site, a subsurface exploration, field and laboratory testing, and an engineering analysis and evaluation of the materials. The scope or purpose of the investigation did not specifically or by implication provide an environmental assessment of the site.

Site Description

The site is currently a rolling and sloping agricultural field with an overhead power line easement traversing in a north-south direction. The site slopes from east to west toward the I-69 corridor. The site has approximate maximum and minimum elevations of 708 and 772 feet. No closed depressions or other karst features were noted on the site.

Regional Setting

A review of the Soil Survey Map of Monroe County¹ indicated that the soils at the site consist predominantly of Crider silt loams. These soils are characterized as silt loams to a depth of approximately three feet and then underlain by fat clay. The silt loam soils are low strength materials and are susceptible to frost action. Bedrock beneath the site is Mississippian aged skeletal limestone of the Sanders Group. The bedrock is roughly mapped at elevations ranging from 700 to 750 feet.

While the site is located in an area generally known for karst topography, the site does not have any mapped karst features in the database displayed by IN.gov Indiana Map Viewer.

WORK PERFORMED

Field investigations to determine the engineering characteristics of the subsurface materials included a reconnaissance of the project site, drilling a total of seventeen (17) borings located as shown on the *Boring Location Plan*, and performing standard penetration tests. The apparent groundwater level during drilling at each boring location was also determined. The 14 general site borings are identified as “B-#” borings. Boring LS-1 was conducted in the southwest corner of the site near the location of a proposed lift station. Borings DS-1 and DS-2 were conducted in the northwest corner of the site near a proposed detention area.

The boring locations were staked in the field by Alt & Witzig based on the provided plans after review and comment by the client. Our approximate boring locations are depicted on the *Boring Location Plan* (Appendix).

Drilling and Sampling Procedures

The soil borings were performed with a track-mounted drilling rig equipped with a rotary head. Hollow stem augers were used to advance the holes to the prescribed depth or to auger refusal, whichever occurred first.

During the sampling procedure, standard penetration tests were performed at regular intervals in accordance with ASTM Method D 1586 to obtain the standard penetration value of the soil. The standard penetration value is defined as the number of blows a 140 lb hammer, falling 30 inches, required to advance the split-spoon sampler 12 inches into the soil. The results of the standard penetration tests indicate the relative density and comparative consistency of the soils, and thereby provide a basis for estimating the relative strength and compressibility of the soil profile components. Soil samples were field classified and placed in unpreserved glass jars with Teflon-lined lids for transport to our geotechnical laboratory for further analysis.

Laboratory Analyses for Soil Samples

A supplementary laboratory investigation was conducted to ascertain additional pertinent engineering characteristics of the subsurface materials necessary in analyzing the behavior of the proposed residential development. All phases of the laboratory investigation were conducted in accordance with applicable ASTM Specifications.

Water Level Measurements

Water level observations were taken at the borehole locations during, upon completion, and several hours after completion of the boring operations. The groundwater level readings are noted on the *Boring Logs* presented herewith. In relatively pervious soils such as sandy soils, the indicated elevations are considered reliable groundwater levels. In relatively impervious soils, the accurate determination of the groundwater elevation is not possible without several days of observation. It should be noted that the groundwater measurements recorded on the individual Boring Logs in the

Appendix are accurate for the specific dates in which the measurements were performed. Due to variations in climate, precipitation, and water level, the groundwater level will fluctuate throughout portions of the year. The Boring Logs do not indicate these fluctuations.

Ground Surface Elevations

The ground surface elevation at the individual boring locations were interpolated from the 1-foot interval topographic map mentioned previously. All elevations presented in this report and on the *Boring Logs* are assumed to be accurate to within +/- two (2) foot.

INVESTIGATION RESULTS

The types of foundation materials encountered have been visually and laboratory classified and are described in detail on the *Boring Logs*. The results of the field penetration tests, strength tests, water level observations and laboratory water contents are presented on the *Boring Logs* in numerical form.

Soil Conditions Encountered

Beneath the topsoil at the site, most borings encountered a sandy silty clay (AASHTO silt loam) layer to an approximate depth of 2.5 feet. Reddish brown, stiff, silty clay and clay (CH) was encountered below the sandy silty clay. In several borings the samples contained limestone fragments. Auger refusal was encountered at depths ranging from 3 to 9 feet in all but two borings, with an average of 6 feet. However, no rock coring was conducted as part of this scope of work. Therefore, the refusal is not a verification of competent or solid bedrock and could reflect refusal on a limestone boulder or ledge of bedrock. Borings B-1, B-2, B-11, B-13, and B-14 did not encounter refusal and were completed to the prescribed depth of 10 feet (10-11 feet to sampler termination). However, the auguring within the weathered zone was slow, and the penetration testing with the split spoon met the maximum of 50 blows prior to full advancement.

The moisture contents of the upper silty cohesive soils generally ranged from 15 to 20 percent. The strength tests indicate unconfined compressive strengths in the range of 3 to 5 ksf.

The fat clays are derived from the weathering of the underlying limestone and are common in this area of Indiana. With increasing depth, they will often contain weathered fragments of limestone and chert. The fat clays were generally stiff to soft with moisture contents generally ranging from 30 to 45 percent. The soil conditions encountered are noted on the individual Boring Logs in the Appendix. The anticipated bedrock surface was found to generally follow the surface topography.

Groundwater Conditions Encountered

Groundwater readings taken during, upon completion, and several hours after the boring operations indicate no free water within the boreholes. The soil survey confirms that the water table is not expected to be within 80 inches of the surface.

Seismic Parameters

Based on the field and laboratory tests performed on the encountered subsurface materials, this site should be considered a Site Class C in accordance with the 2012 International Building Code. USGS online database indicates maximum spectral response acceleration values of $S_s=0.222$ g and $S_1=0.106$ g for the site. A summary of the seismic parameters is included in the Appendix.

GEOTECHNICAL ANALYSIS AND RECOMMENDATIONS

The purpose of this subsurface investigation was to determine the soil profile and the engineering characteristics of the subsurface materials and to evaluate the grading and construction of the residential development. Exhibit 2 shows the site plan with the proposed lot layout. It should be noted that this is not necessarily the final layout.

Exhibit 2: Kinsington Place Conceptual alternative 11-14-23



Site Preparation

The topsoil should be stripped from the structural areas of the site and placed in non-structural areas or removed from the site. The thicknesses on our boring logs may not be exact and may not represent variations of the topsoil thicknesses between boring locations. Therefore, the thicknesses should be used for estimating purposes only. The amount of stripping will also be dependent on the condition of the subgrade during earthmoving operations. A representative of Alt & Witzig Engineering, Inc. should be present prior to and during stripping operations, and during removal of the unsuitable fills to aid in determining where suitable soils are encountered.

Prior to the placement of fill, the exposed subgrade should be proof-rolled with equipment approved by a representative of Alt & Witzig Engineering, Inc. This proof-rolling will assist in determining if any pockets of soft unstable materials exist beneath this exposed subgrade. Where

soft, yielding materials are encountered, it will be necessary to remediate the area prior to placement of fill materials. Remediation of these unstable areas will be dictated by the field conditions at that time and the proposed grading.

All fill placed with the intent of supporting foundations, floor slabs, and pavements should be placed in accordance with the compaction specifications in Table 1.

Bedrock Excavations

While no coring was conducted to investigate the competency of the underlying bedrock, the type of bedrock and our experience in this area indicates that the bedrock surface will not be consistent in elevation. However, when encountered, the bedrock surface is expected to contain a weathered zone ranging from two to four feet. It should be noted that our soil borings likely penetrated into or through the weathered zone, as we utilize carbide tipped cutting teeth on our hollow stem augers.

The weathered zone could include ledges and large boulders and layers or pockets of red clay. The limestone bedrock is hard and will require jack-hammering or blasting for mass earthwork. For relatively narrow utility excavations that will penetrate the weathered rock a trencher with carbide bullet teeth may be effective.

Compaction Specifications

After remediation of soil/yielding soils identified in the proof-roll inspection, the site should be raised to subgrade elevation. It is recommended that the minimum dry density as determined in accordance with ASTM D-1557 be achieved in the various areas across the site mentioned in the following table. The following table illustrates the recommended compaction percentage in several areas of the site.

Table 1: Compaction Specifications

Table 1: Compaction Specifications			
Area	Min. Percentage of Compaction ASTM D 1557	Acceptable Material	Typical Maximum Lift Thickness
Roads, Drives, & Parking Areas (including future areas)	95%	Any besides ML, MH, CH, OL, OH	8"
Under Foundations and Footings	95%	Any besides ML, MH, CH, OL, OH	8"
Sub grade Below Slab-On-Grade	95%	INDOT #53 or other coarse-grained material approved by the geotechnical engineer	8"
Construction of Permanent Slopes	95%	Any besides ML, MH, SW, SP, GW, GP	8"
Green Space (not including permanent slopes)	85%	Any	12"
Landscaped Areas (Upper 1 ft)	Maximum 90%	Any	12"
Utility Trench Backfill	98%	SW, SP, GW, GP	10"
USCS Classifications: GW-Well Graded Gravel GP-Poorly Graded Gravel GM-Silty Gravel GC-Clayey Gravel	SW-Well Graded Sand SP-Poorly Graded Sand SM-Silty Sand SC-Clayey Sand CL-Lean Clay	ML-Silt CH-Fat Clay MH-Elastic Silt OL-Organic Clay/Silt OH-Organic Clay/Silt	

The ability to obtain the above-mentioned compaction requirements are dependent upon the moisture contents of the fill soils.

General Foundation Recommendations

Based upon the initial plans and conversations with the client, it is anticipated that the foundations will be bearing on medium stiff, lean silty clays. A net allowable soil bearing capacity of 2,000 psf is recommended for design of conventional spread foundations and for spread and continuous wall footings. It is also recommended that the base of the footing excavations be inspected by a representative of Alt & Witzig Engineering, Inc. for suitable bearing material.

In order to alleviate the effects of frost action and seasonal variations in moisture content, all exterior foundations should be founded a minimum of two and one-half (2.5) feet below the final grade. Interior footings in heated areas may be founded at a nominal depth below the finished floor slab, provided suitable bearing materials are encountered.

The depth to bedrock should be carefully considered when finalizing the grading plan for the development. Should isolated foundation excavations expose bedrock prior to the prescribed depth, it will be necessary to remove the bedrock to 2.5 feet below final grade. If the bedrock cannot be excavated uniformly and excessive removal occurs, a clean crushed stone shall be placed and compacted in place to re-establish the bottom of footing elevation. Additionally, bedrock shall be removed if within 6 inches of the bottom of floor slabs, both typical and any thickened slab areas.

Floor Slab Recommendations

After preparation of the subgrade and final grade has been established, a four (4)-inch compacted granular material should be placed immediately beneath all floor slabs. This granular material will provide a uniform surface for construction of the floor slab and minimize capillary rise of water through the slab.

If the building pad subgrade should become disturbed, or excessively wet or dry prior to construction of the floor slab, the affected materials should be removed and replaced with suitable structural fill.

Pavement Subgrade & Wearing Surface Recommendations

It is recommended that all pavement subgrades be proofrolled prior to placement of new fills or at subgrades that are cut to grade. The subgrades should be protected during construction from excessive construction traffic. It is recommended that the pavement section include a stone subbase to allow for drainage and separation of the pavement section and the underlying fine-grained soils.

Lift Station Recommendations

The lift station boring encountered bedrock at a depth of five feet. Excavations into the rock will require coring or some other type of mechanical removal. No coring was completed so we cannot comment on the competency of the bedrock and potential voids, seams, and joints. Additionally, the groundwater within the bedrock is unknown.

Detention Pond Recommendations

The detention area borings, D-01 and D-02, encountered bedrock at depths of 5 and 4 feet below existing grades, respectively. If possible, it is recommended that the detention area be created by building berms to temporarily detain the water for the development. The residual clays atop the bedrock are not considered good infiltration materials. However, if infiltration takes place close to the soil-bedrock interface, significant movement of water can occur due to the weathered nature of the bedrock. It is recommended that the detention system include a uniform clay liner to avoid erosion of the existing soil cap over the bedrock and to avoid excessive loss of water into the underlying bedrock.

STATEMENT OF LIMITATIONS

This report is solely for the use of Beacon Builders and their assigned agents. Any reliance of this report by third parties shall be at such party's sole risk and may not contain sufficient information for purposes of other parties for other uses. This report shall only be presented in full and may not be used to support any other objectives than those set out in the scope of work, except where written approval and consent are provided by Beacon Builders and Alt & Witzig Engineering.

Our subsurface investigation was conducted in accordance with guidelines set forth in the scope of services and applicable industry standards. The scope or purpose of this geotechnical investigation did not, either specifically or by implication, provide any environmental assessment of the site.

An inherent limitation of any geotechnical engineering study is that conclusions must be drawn on the basis of data collected at a limited number of discrete locations. The geotechnical parameters provided in this report were developed from the information obtained from the test borings that depict subsurface conditions only at these specific locations and on the particular date indicated on the boring logs. Soil conditions at other locations may differ from conditions encountered at these boring locations and groundwater levels shall be expected to vary with time. The nature and extent of variations between the borings may not become evident until the course of construction.

APPENDIX

Boring Logs

General Notes

Soil Survey

Seismic Design Parameters

Boring Location Plan

AW Project 23IN0698

Legend

- Proposed Soil Boring





BORING LOG

164

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
 PROJECT NAME Kinsington Place
 PROJECT LOCATION Bloomington, IN

BORING # B-01
 ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
 Date Completed 12/21/23 Hammer Drop 30 in.
 Boring Method HSA Spoon Sampler OD 2 in.
 Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
	SURFACE ELEVATION 740.0											
739.6	TOPSOIL	0.4										
737.5	Dark Brown Silty Sandy CLAY	2.5		1	SS			11		4.5	15.2	
735.0	Brown Silty Sandy CLAY	5.0	5	2	SS			8	1.9	2.8	35.6	
	Red CLAY			3	SS			3	1.4	2.0	42.5	
729.0	End of Boring at 11 feet	11.0	10	4	SS			50/1"				

Sample Type

SS - Driven Split Spoon
 ST - Pressed Shelby Tube
 CA - Continuous Flight Auger
 RC - Rock Core
 CU - Cuttings
 CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
 ▼ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
 CFA - Continuous Flight Augers
 DC - Driving Casing
 MD - Mud Drilling



BORING LOG

165

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
 PROJECT NAME Kinsington Place
 PROJECT LOCATION Bloomington, IN

BORING # B-02
 ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
 Date Completed 12/21/23 Hammer Drop 30 in.
 Boring Method HSA Spoon Sampler OD 2 in.
 Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
746.7	TOPSOIL	0.3										
744.0	Dark Brown Silty Sandy CLAY	3.0	1	1	SS			8	5.4	4.5	16.8	
	Brown and Red CLAY	7.5	5	2	SS			11		2.5	39.0	
739.5		7.5		3	SS			24		4.5	7.2	
736.0	Brown Completely weathered limestone	11.0	10	4	SS			50/1"			7.0	
	End of Boring at 11 feet											

Sample Type

SS - Driven Split Spoon
 ST - Pressed Shelby Tube
 CA - Continuous Flight Auger
 RC - Rock Core
 CU - Cuttings
 CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
 ▼ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
 CFA - Continuous Flight Augers
 DC - Driving Casing
 MD - Mud Drilling



BORING LOG

166

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # B-03
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/20/23 Hammer Wt. 140 lbs.
Date Completed 12/20/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

Boring Method		HSA		Spoon Sampler OD		2 in.								
Driller		M. Winkler		Rig Type		D-50 Track ATV								
STRATA ELEV.	SOIL CLASSIFICATION			Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pcf)	Remarks
769.6	TOPSOIL			0.4										
767.5	Dark Brown Silty Sandy CLAY			2.5		1	SS			9		4.5	19.0	
	Red CLAY				5	2	SS			9	4.0	4.5	31.6	
					3	SS		50/5"		1.8	43.3			
760.5				End of Boring at 9 feet Auger Refusal @ 9.0'			9.5		4	SS		50/2"		

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

167

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
 PROJECT NAME Kinsington Place
 PROJECT LOCATION Bloomington, IN

BORING # B-04
 ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
 Date Completed 12/21/23 Hammer Drop 30 in.
 Boring Method HSA Spoon Sampler OD 2 in.
 Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
	SURFACE ELEVATION 731.0											
730.7	TOPSOIL	0.3										
728.5	Dark Brown Silty Sandy CLAY	2.5		1	SS			10	5.4	4.5	19.9	
725.5	Red CLAY	5.5	5	2	SS			50/4"	2.5	2.8	33.7	
	Auger Refusal @ 5.5' End of Boring at 5.5 feet											

Sample Type

SS - Driven Split Spoon
 ST - Pressed Shelby Tube
 CA - Continuous Flight Auger
 RC - Rock Core
 CU - Cuttings
 CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
 ▼ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
 CFA - Continuous Flight Augers
 DC - Driving Casing
 MD - Mud Drilling



BORING LOG

168

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
 PROJECT NAME Kinsington Place
 PROJECT LOCATION Bloomington, IN

BORING # B-05
 ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
 Date Completed 12/21/23 Hammer Drop 30 in.
 Boring Method HSA Spoon Sampler OD 2 in.
 Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
745.6	TOPSOIL	0.4										
743.5	Dark Brown Silty Sandy CLAY	2.5		1	SS			9		4.5	20.7	
	Brown and Red CLAY with Weathered Limestone fragments	5		2	SS			9		0.5	28.4	
739.0	Auger Refusal @ 7.0' End of Boring at 7 feet	7.0										

Sample Type

SS - Driven Split Spoon
 ST - Pressed Shelby Tube
 CA - Continuous Flight Auger
 RC - Rock Core
 CU - Cuttings
 CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
 ▼ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
 CFA - Continuous Flight Augers
 DC - Driving Casing
 MD - Mud Drilling



BORING LOG

169

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # B-06
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/20/23 Hammer Wt. 140 lbs.
Date Completed 12/20/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
	SURFACE ELEVATION 772.0											
771.6	TOPSOIL	0.4										
769.5	Dark Brown Silty Sandy CLAY	2.5		1	SS			10		3.0	15.4	
767.0	Brown and Red Silty CLAY	5.0	5	2	SS			10	5.4	4.5	21.6	
765.0	Red CLAY	7.0		3	SS			50/1"				
	Auger Refusal @ 7.0' End of Boring at 7 feet											

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
▼ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

170

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # B-07
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/22/23 Hammer Wt. 140 lbs.
Date Completed 12/22/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

Boring Method		HSA		Spoon Sampler OD		2 in.								
Driller		M. Winkler		Rig Type		D-50 Track ATV								
STRATA ELEV.	SOIL CLASSIFICATION			Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pcf)	Remarks
730.7	TOPSOIL			0.3										
	Brown and Red Sandy Silty CLAY													
728.0	Auger Refusal @ 3.0' End of Boring at 3 feet			3.0		1	SS			50/1"		4.5	24.4	

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

171

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
 PROJECT NAME Kinsington Place
 PROJECT LOCATION Bloomington, IN

BORING # B-08
 ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
 Date Completed 12/21/23 Hammer Drop 30 in.
 Boring Method HSA Spoon Sampler OD 2 in.
 Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
757.6	TOPSOIL	0.4										
755.5	Dark Brown Silty Sandy CLAY	2.5		1	SS			11		4.5	16.2	
	Brown and Red CLAY		5	2	SS			5		2.0	34.7	
751.5	Auger Refusal @ 6.5' End of Boring at 6.5 feet	6.5										

Sample Type

SS - Driven Split Spoon
 ST - Pressed Shelby Tube
 CA - Continuous Flight Auger
 RC - Rock Core
 CU - Cuttings
 CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
 ▼ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
 CFA - Continuous Flight Augers
 DC - Driving Casing
 MD - Mud Drilling



BORING LOG

172

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
 PROJECT NAME Kinsington Place
 PROJECT LOCATION Bloomington, IN

BORING # B-09
 ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/20/23 Hammer Wt. 140 lbs.
 Date Completed 12/20/23 Hammer Drop 30 in.
 Boring Method HSA Spoon Sampler OD 2 in.
 Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
	SURFACE ELEVATION 766.0											
765.5	TOPSOIL	0.5										
763.5	Dark Brown Silty Sandy CLAY	2.5		1	SS			9	5.4	4.5	19.2	
762.0	Brown and Red Sandy Silty CLAY	4.0										
760.0	Brown CLAY	6.0	5	2	SS			50/5"		2.8	42.1	
	Auger Refusal @ 6.0' End of Boring at 6 feet											

Sample Type

SS - Driven Split Spoon
 ST - Pressed Shelby Tube
 CA - Continuous Flight Auger
 RC - Rock Core
 CU - Cuttings
 CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
 ▼ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
 CFA - Continuous Flight Augers
 DC - Driving Casing
 MD - Mud Drilling



BORING LOG

173

Alt & Witzig Engineering, Inc.



CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # B-10
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/22/23 Hammer Wt. 140 lbs.
Date Completed 12/22/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

Boring Method <u>HSA</u>		Spoon Sampler OD <u>2</u> in.											
Driller <u>M. Winkler</u>		Rig Type <u>D-50 Track ATV</u>											
STRATA ELEV.	SOIL CLASSIFICATION		Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pcf)	Remarks
	SURFACE ELEVATION 732.0												
731.6	TOPSOIL		0.4										
729.5	Dark Brown Silty Sandy CLAY		2.5		1	SS			10		4.5	20.8	
726.5	Red Silty CLAY		5.5	5	2	SS			7	2.3	2.8	36.3	
725.0	Brown CLAY		7.0										
	Auger Refusal @ 7.0' End of Boring at 7 feet												

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

174

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # B-11
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
Date Completed 12/21/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
	SURFACE ELEVATION 754.0											
753.5	TOPSOIL	0.5										
751.5	Dark Brown Silty Sandy CLAY	2.5		1	SS			6	3.2	4.5	17.6	
749.0	Brown Silty Sandy CLAY	5.0	5	2	SS			13	5.4	4.5	21.9	
	Red CLAY			3	SS			1		1.3	42.0	
743.5		10.5	10	4	SS			50/5"		3.5	10.8	
743.0	Brown and Gray Completely Weathered Limestone	11.0										
	End of Boring at 11 feet											

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

175

Alt & Witzig Engineering, Inc.



CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # B-12
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/20/23 Hammer Wt. 140 lbs.
Date Completed 12/20/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

Boring Method <u>HSA</u>		Spoon Sampler OD <u>2</u> in.											
Driller <u>M. Winkler</u>		Rig Type <u>D-50 Track ATV</u>											
STRATA ELEV.	SOIL CLASSIFICATION		Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pcf)	Remarks
	SURFACE ELEVATION 749.0												
748.6	TOPSOIL		0.4										
746.5	Dark Brown Silty Sandy CLAY		2.5		1	SS			9		4.0	18.4	
	Red CLAY			5	2	SS			6	1.7	2.5	20.2	
742.5	Auger Refusal @ 6.5' End of Boring at 6.5 feet		6.5										

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

176

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # B-13
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
Date Completed 12/21/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pcf)	Remarks
747.6	TOPSOIL	0.4										
745.0	Dark Brown Silty CLAY	3.0		1	SS			9		4.3		
743.0	Brown Sandy Silty CLAY	5.0	5	2	SS			15		4.5		
740.5	Brown and Red Silty CLAY with Weathered Limestone Fragments	7.5		3	SS			10	3.5	4.0		
738.0	Red CLAY	10.0	10	4	SS			8		2.5		
737.0	Brown and Red CLAY with Limestone fragments	11.0										
	End of Boring at 11 feet											

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

177

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # B-14
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
Date Completed 12/21/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pct)	Remarks
	SURFACE ELEVATION 744.0											
743.6	TOPSOIL	0.4										
741.5	Dark Brown Silty CLAY	2.5		1	SS			7	2.3	3.5	20.9	
739.0	Brown Sandy Silty CLAY	5.0	5	2	SS			11	3.5	3.8	20.7	
735.0	Red CLAY	9.0		3	SS			9	3.1	3.0	41.3	
733.0	Brown CLAY with Completely Weathered Limestone Pieces	11.0	10	4	SS			6		3.0	40.7	
	End of Boring at 11 feet											

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

178

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
 PROJECT NAME Kinsington Place
 PROJECT LOCATION Bloomington, IN

BORING # D-01
 ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/22/23 Hammer Wt. 140 lbs.
 Date Completed 12/22/23 Hammer Drop 30 in.
 Boring Method HSA Spoon Sampler OD 2 in.
 Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

Boring Method <u>HSA</u>		Spoon Sampler OD <u>2</u> in.											
Driller <u>M. Winkler</u>		Rig Type <u>D-50 Track ATV</u>											
STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pcf)	Remarks	
725.6	TOPSOIL	0.4											
723.5	Dark Brown Silty CLAY	2.5		1	SS			9	4.4	2.0	34.4		
721.0	Red CLAY	5.0	5	2	SS			50/1"					
	Auger Refusal @ 5.0' End of Boring at 5 feet												

Sample Type

SS - Driven Split Spoon
 ST - Pressed Shelby Tube
 CA - Continuous Flight Auger
 RC - Rock Core
 CU - Cuttings
 CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
 ▼ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
 CFA - Continuous Flight Augers
 DC - Driving Casing
 MD - Mud Drilling



BORING LOG

179

Alt & Witzig Engineering, Inc.

CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # D-02
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/22/23 Hammer Wt. 140 lbs.
Date Completed 12/22/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

Boring Method <u>HSA</u>		Spoon Sampler OD <u>2</u> in.										
Driller <u>M. Winkler</u>		Rig Type <u>D-50 Track ATV</u>										
STRATA ELEV.	SOIL CLASSIFICATION	Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsif Unconfined Compressive Strength	PP-tsif Pocket Penetrometer	Moisture Content % Dry Unit Weight (pcf)	Remarks
725.7	TOPSOIL	0.3										
	Dark Brown Silty CLAY			1	SS			11		4.5	30.2	
723.0		3.0										
722.0	Red and Brown CLAY with Completely Weathered Limestone Fragments Auger Refusal @ 4.0' End of Boring at 4 feet	4.0										

Sample Type

SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling



BORING LOG

180

Alt & Witzig Engineering, Inc.



CLIENT Beacon Builders
PROJECT NAME Kinsington Place
PROJECT LOCATION Bloomington, IN

BORING # LS-01
ALT & WITZIG FILE # 23IN0698

DRILLING and SAMPLING INFORMATION

Date Started 12/21/23 Hammer Wt. 140 lbs.
Date Completed 12/21/23 Hammer Drop 30 in.
Boring Method HSA Spoon Sampler OD 2 in.
Driller M. Winkler Rig Type D-50 Track ATV

TEST DATA

Boring Method		HSA		Spoon Sampler OD		2		in.						
Driller		M. Winkler		Rig Type		D-50 Track ATV								
STRATA ELEV.	SOIL CLASSIFICATION			Strata Depth	Depth Scale	Sample No.	Sample Type	Sampler Graphics Recovery Graphics	Ground Water	Standard Penetration Test, N - blows/foot	Qu-tsf Unconfined Compressive Strength	PP-tsf Pocket Penetrometer	Moisture Content % Dry Unit Weight (pcf)	Remarks
	SURFACE ELEVATION 722.0													
721.7	TOPSOIL			0.3										
719.5	Dark Brown Silty Sandy CLAY			2.5		1	SS			11	5.4	4.5	20.7	
717.0	Red Silty CLAY			5.0		2	SS			50/5"		4.5	25.8	
	Auger Refusal @ 5.0' End of Boring at 5 feet													

Sample Type

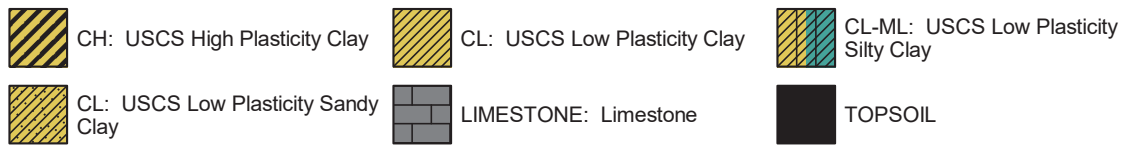
SS - Driven Split Spoon
ST - Pressed Shelby Tube
CA - Continuous Flight Auger
RC - Rock Core
CU - Cuttings
CT - Continuous Tube

Groundwater

○ During Drilling Dry ft.
⚡ At Completion Dry ft.

Boring Method

HSA - Hollow Stem Augers
CFA - Continuous Flight Augers
DC - Driving Casing
MD - Mud Drilling

MATERIAL GRAPHICS LEGEND**SOIL PROPERTY SYMBOLS**

N: Standard "N" penetration value. Blows per foot of a 140-lb hammer falling 30" on a 2" O.D. split-spoon.

Qu: Unconfined Compressive Strength, tsf

PP: Pocket Penetrometer, tsf

LL: Liquid Limit, %

PL: Plastic Limit, %

PI: Plasticity Index, %

DRILLING AND SAMPLING SYMBOLS**GROUNDWATER SYMBOLS**

- Apparent water level noted while drilling.
- ∇ Apparent water level noted upon completion.
- ▼ Apparent water level noted upon delayed time.

SAMPLER SYMBOLS

⊠ SS: Split Spoon

**RELATIVE DENSITY & CONSISTANCY CLASSIFICATION
(NON-COHESIVE SOILS)**

<u>TERM</u>	<u>BLOWS PER FOOT</u>
Very Loose	0 - 5
Loose	6 - 10
Medium Dense	11 - 30
Dense	31 - 50
Very Dense	>51

**RELATIVE DENSITY & CONSISTANCY CLASSIFICATION
(COHESIVE SOILS)**

<u>TERM</u>	<u>BLOWS PER FOOT</u>
Very Soft	0 - 3
Soft	4 - 5
Medium Stiff	6 - 10
Stiff	11 - 15
Very Stiff	16 - 30
Hard	>31



Alt & Witzig Engineering, Inc.
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GENERAL NOTES

Project: Kinsington Place

Location: Bloomington, IN

Number: 23IN0698



United States
Department of
Agriculture

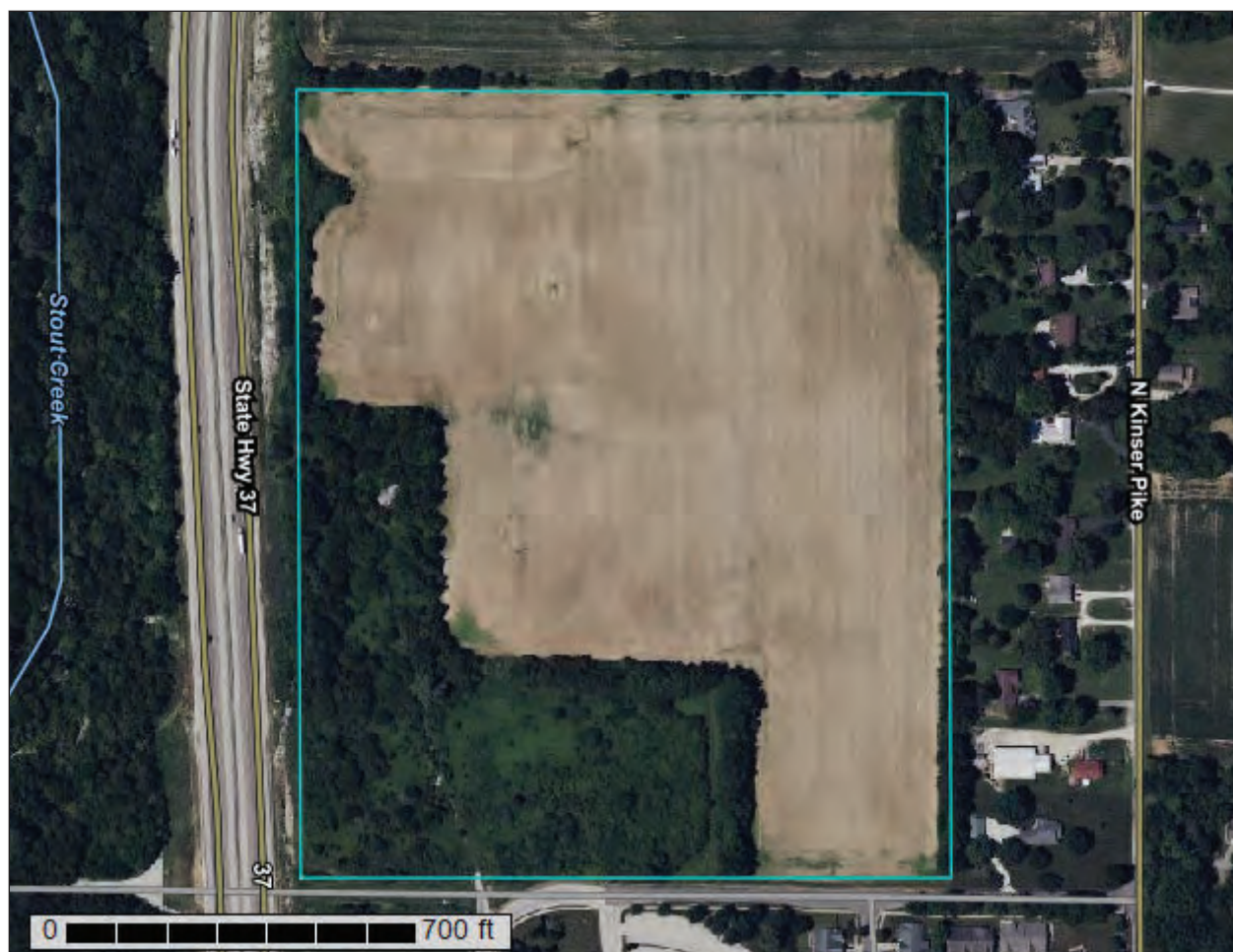
NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Monroe County, Indiana**

Kinsington Place



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

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MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Monroe County, Indiana
Survey Area Data: Version 30, Sep 1, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2022—Jun 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CrB	Crider silt loam, 2 to 6 percent slopes	23.3	49.5%
CrC	Crider silt loam, 6 to 12 percent slopes	23.7	50.5%
Totals for Area of Interest		47.0	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Monroe County, Indiana

CrB—Crider silt loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 2vp3p
Elevation: 350 to 1,120 feet
Mean annual precipitation: 37 to 62 inches
Mean annual air temperature: 41 to 68 degrees F
Frost-free period: 145 to 212 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Crider and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Crider

Setting

Landform: Hills
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Fine-silty noncalcareous loess over clayey residuum weathered from limestone

Typical profile

Ap - 0 to 7 inches: silt loam
Bt1 - 7 to 32 inches: silty clay loam
2Bt2 - 32 to 80 inches: clay

Properties and qualities

Slope: 2 to 6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B
Ecological site: F122XY004KY - Loess Veneered Uplands
Other vegetative classification: Trees/Timber (Woody Vegetation)
Hydric soil rating: No

Minor Components**Bedford**

Percent of map unit: 10 percent
Landform: Hills
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Trees/Timber (Woody Vegetation)
Hydric soil rating: No

Nolin, ponded

Percent of map unit: 10 percent
Landform: Sinkholes
Landform position (three-dimensional): Talf
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: No

Caneyville

Percent of map unit: 5 percent
Landform: Hills
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Trees/Timber (Woody Vegetation)
Hydric soil rating: No

CrC—Crider silt loam, 6 to 12 percent slopes**Map Unit Setting**

National map unit symbol: 2vp3r
Elevation: 440 to 990 feet
Mean annual precipitation: 37 to 58 inches
Mean annual air temperature: 43 to 68 degrees F
Frost-free period: 150 to 212 days
Farmland classification: Not prime farmland

Map Unit Composition

Crider and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Crider**Setting**

Landform: Hills
Landform position (two-dimensional): Summit, shoulder

Custom Soil Resource Report

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Fine-silty noncalcareous loess over clayey residuum weathered from limestone

Typical profile

Ap - 0 to 7 inches: silt loam

Bt1 - 7 to 36 inches: silty clay loam

2Bt2 - 36 to 80 inches: clay

Properties and qualities

Slope: 6 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: F122XY004KY - Loess Veneered Uplands

Other vegetative classification: Trees/Timber (Woody Vegetation)

Hydric soil rating: No

Minor Components**Caneyville**

Percent of map unit: 10 percent

Landform: Hills

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Trees/Timber (Woody Vegetation)

Hydric soil rating: No

Bedford

Percent of map unit: 7 percent

Landform: Hills

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Trees/Timber (Woody Vegetation)

Hydric soil rating: No

Nolin, ponded

Percent of map unit: 3 percent

Landform: Sinkholes

Landform position (three-dimensional): Talf

Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: No

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Building Site Development

Building site development interpretations are designed to be used as tools for evaluating soil suitability and identifying soil limitations for various construction purposes. As part of the interpretation process, the rating applies to each soil in its described condition and does not consider present land use. Example interpretations can include corrosion of concrete and steel, shallow excavations, dwellings with and without basements, small commercial buildings, local roads and streets, and lawns and landscaping.

Local Roads and Streets

ENG - Engineering

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a water table, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a water table, and ponding.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use.

"Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Custom Soil Resource Report
Map—Local Roads and Streets

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MAP LEGEND

MAP INFORMATION

Area of Interest (AOI)

Background Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:15,800.

Soils

Soil Rating Polygons

Very limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Lines

Very limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Points

Very limited

Somewhat limited

Not limited

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

 Interstate Highways US Routes

Major Roads

Local Roads

Soil Survey Area: Monroe County, Indiana
Survey Area Data: Version 30, Sep 1, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2022—Jun 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Tables—Local Roads and Streets

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CrB	Crider silt loam, 2 to 6 percent slopes	Very limited	Crider (75%)	Frost action (1.00)	23.3	49.5%
				Low strength (1.00)		
			Bedford (10%)	Depth to thin cemented pan (1.00)		
				Frost action (1.00)		
				Low strength (0.94)		
				Depth to saturated zone (0.43)		
				Depth to thick cemented pan (0.10)		
			Nolin, ponded (10%)	Ponding (1.00)		
				Frost action (1.00)		
				Low strength (0.32)		
			Caneyville (5%)	Low strength (1.00)		
				Shrink-swell (0.92)		
				Frost action (0.50)		
				Depth to hard bedrock (0.16)		
				Soluble bedrock (0.15)		
CrC	Crider silt loam, 6 to 12 percent slopes	Very limited	Crider (80%)	Frost action (1.00)	23.7	50.5%
				Low strength (1.00)		
				Slope (0.04)		
			Caneyville (10%)	Low strength (1.00)		
				Shrink-swell (0.92)		
				Frost action (0.50)		

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
				Depth to hard bedrock (0.16)		
				Soluble bedrock (0.15)		
			Bedford (7%)	Depth to thin cemented pan (1.00)		
				Frost action (1.00)		
				Low strength (0.94)		
				Depth to saturated zone (0.43)		
				Depth to thick cemented pan (0.10)		
			Nolin, ponded (3%)	Ponding (1.00)		
				Frost action (1.00)		
				Low strength (0.32)		
Totals for Area of Interest					47.0	100.0%

Rating	Acres in AOI	Percent of AOI
Very limited	47.0	100.0%
Totals for Area of Interest	47.0	100.0%

Rating Options—Local Roads and Streets

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Dwellings Without Basements

ENG - Engineering

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper.

The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a water table, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification of the soil. The properties that affect the ease and amount of excavation include depth to a water table, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the specified use. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

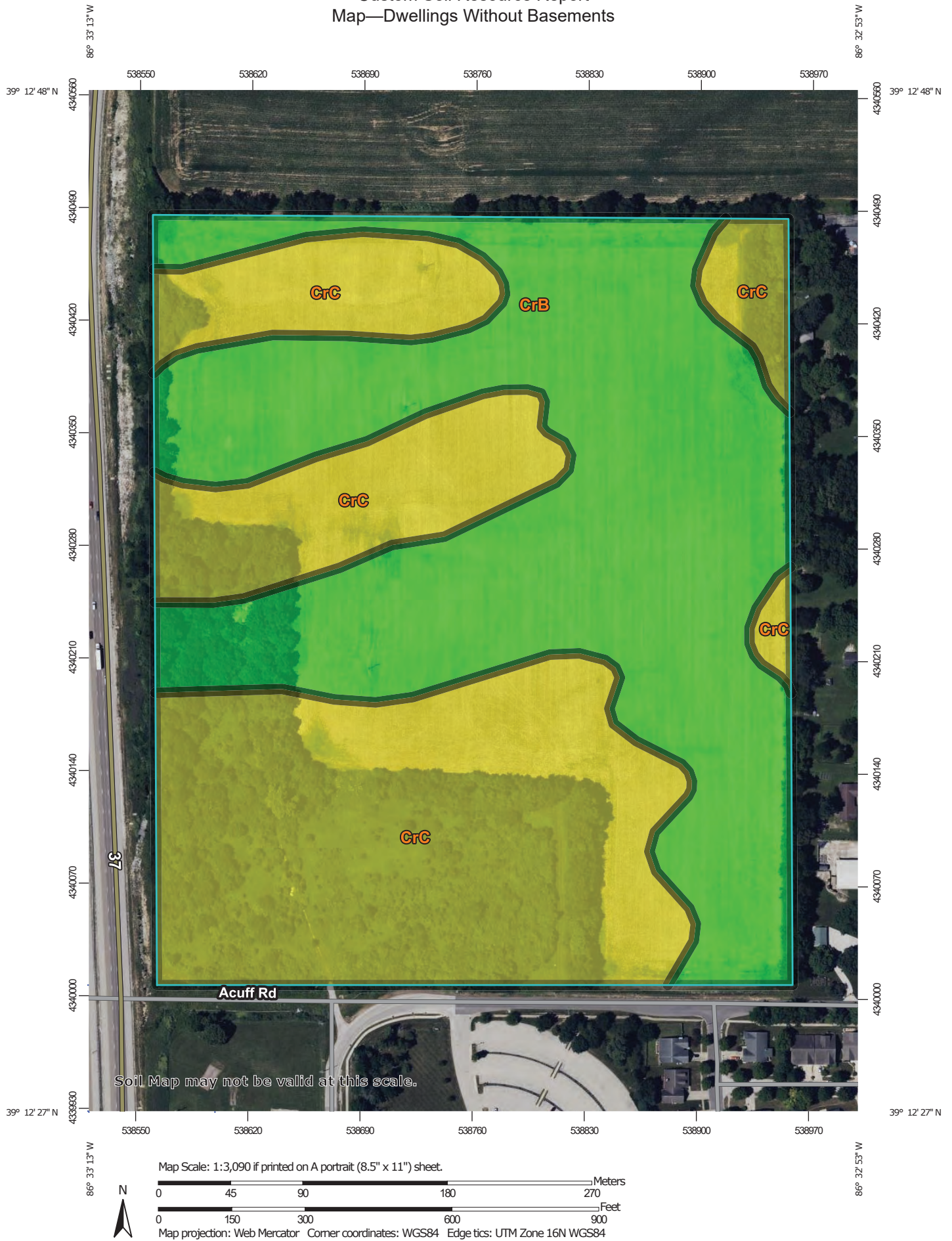
Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Custom Soil Resource Report
Map—Dwellings Without Basements

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MAP LEGEND

MAP INFORMATION

Area of Interest (AOI)

Background Aerial Photography

Soils

Soil Rating Polygons

Very limited

Somewhat limited

Not limited

Country	Year	Rate (per 100,000 live births)	Not rated or not available
Algeria	2017	10.0	
Algeria	2016	10.0	
Algeria	2015	10.0	
Algeria	2014	10.0	
Algeria	2013	10.0	
Algeria	2012	10.0	
Algeria	2011	10.0	
Algeria	2010	10.0	
Algeria	2009	10.0	
Algeria	2008	10.0	
Algeria	2007	10.0	
Algeria	2006	10.0	
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Algeria	1929	10.0	
Algeria	1928	10.0	
Algeria	1927	10.0	
Algeria	1926	10.0	
Algeria	1925	10.0	
Algeria	1924	10.0	
Algeria	1923	10.0	
Algeria	1922	10.0	
Algeria	1921	10.0	
Algeria	1920	10.0	
Algeria			

Soil Rating Lines

 Verv limited

Somewhat limited

Not limited

Not rated or not available

Soil Rating Points

 Verv limited

Somewhat limited

 Not limited


Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

 Interstate Highways US Routes

Major Roads

Local Roads

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Monroe County, Indiana
Survey Area Data: Version 30, Sep 1, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 15, 2022—Jun 21, 2022

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Tables—Dwellings Without Basements

Map unit symbol	Map unit name	Rating	Component name (percent)	Rating reasons (numeric values)	Acres in AOI	Percent of AOI
CrB	Crider silt loam, 2 to 6 percent slopes	Not limited	Crider (75%)		23.3	49.5%
CrC	Crider silt loam, 6 to 12 percent slopes	Somewhat limited	Crider (80%)	Slope (0.04)	23.7	50.5%
			Caneyville (10%)	Shrink-swell (0.92)		
				Depth to hard bedrock (0.16)		
				Slope (0.04)		
			Bedford (7%)	Depth to saturated zone (0.77)		
				Depth to thin cemented pan (0.50)		
				Depth to thick cemented pan (0.10)		
Totals for Area of Interest					47.0	100.0%

Rating	Acres in AOI	Percent of AOI
Somewhat limited	23.7	50.5%
Not limited	23.3	49.5%
Totals for Area of Interest	47.0	100.0%

Rating Options—Dwellings Without Basements

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

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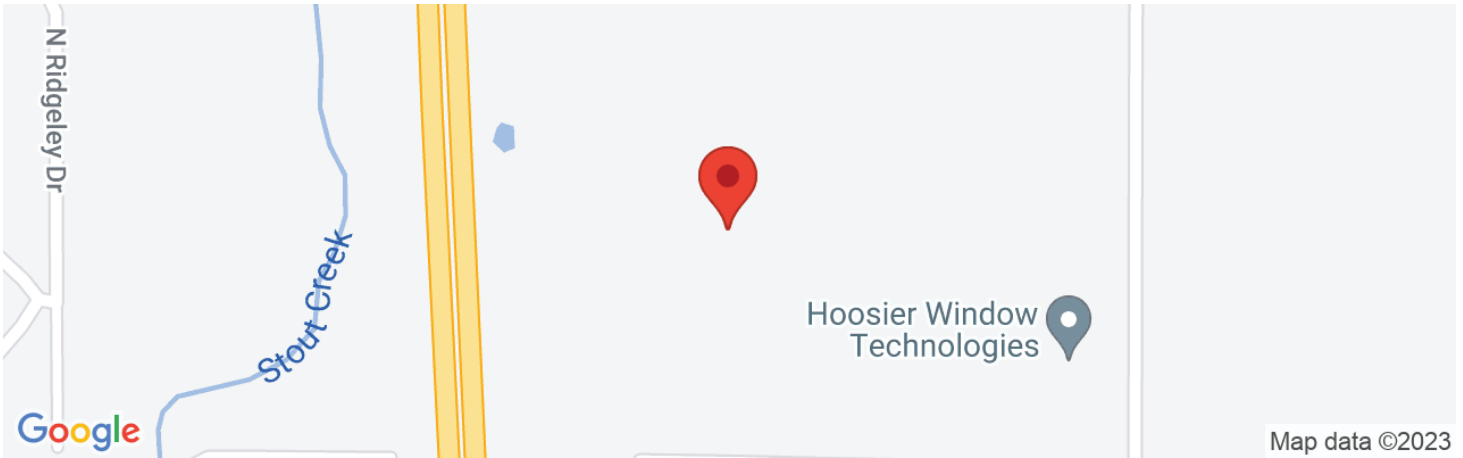
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Kinsington Place 23IN0698

Latitude, Longitude: 39.21007438, -86.55126724



Date	12/1/2023, 10:11:20 AM
Design Code Reference Document	IBC-2012
Risk Category	II
Site Class	C - Very Dense Soil and Soft Rock

Type	Value	Description
S_S	0.222	MCE_R ground motion. (for 0.2 second period)
S_1	0.106	MCE_R ground motion. (for 1.0s period)
S_{MS}	0.266	Site-modified spectral acceleration value
S_{M1}	0.179	Site-modified spectral acceleration value
S_{DS}	0.177	Numeric seismic design value at 0.2 second SA
S_{D1}	0.12	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	B	Seismic design category
F_a	1.2	Site amplification factor at 0.2 second
F_v	1.694	Site amplification factor at 1.0 second
PGA	0.106	MCE_G peak ground acceleration
F_{PGA}	1.2	Site amplification factor at PGA
PGA_M	0.127	Site modified peak ground acceleration
T_L	12	Long-period transition period in seconds
S_{sRT}	0.222	Probabilistic risk-targeted ground motion. (0.2 second)
S_{sUH}	0.246	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
S_{sD}	1.5	Factored deterministic acceleration value. (0.2 second)
S_{1RT}	0.106	Probabilistic risk-targeted ground motion. (1.0 second)
S_{1UH}	0.124	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S_{1D}	0.6	Factored deterministic acceleration value. (1.0 second)
PGA_d	0.6	Factored deterministic acceleration value. (Peak Ground Acceleration)
PGA_{UH}	0.106	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C_{RS}	0.9	Mapped value of the risk coefficient at short periods
C_{R1}	0.854	Mapped value of the risk coefficient at a period of 1 s
C_v		Vertical coefficient

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hydrogeology inc.

1211 S Walnut St
Bloomington, IN 47401

DRAFT

Bill Evans
Beacon Builders
Greenwood, IN

Date: March 26, 2024

Subject:

**Kinser Ridge – Karst Survey
Bloomington, IN**

Contact:

Jason Krothe

Phone:

812-219-0210

Email: jnkrothe@hydrogeologyinc.com

Mr. Evans:

Hydrogeology Inc. (Hydrogeology) respectfully submits this karst report for the property located at the intersection of N Prow Rd and W Acuff Ln, in Bloomington, IN. The property is approximately 50-acres (Figure 1).

1 – Overview

The Site is located at the intersection of N Prow Road and W Acuff Ln in Bloomington, Indiana and is approximately 50-acres (Figure 2). The property currently consists of mostly open fields and some areas with dense ground vegetation.

2 - Geology / Physiography

The Site is in the Mitchell Plateau physiographic region, which is one of the primary karst forming areas in Indiana. The bedrock at the Site includes the Harrodsburg and Salem Limestones (Hasenmueller, Estell, Keith, and Thompson, 2008) (Figure 3). The Harrodsburg Limestone consists of primarily limestone but includes some dolomite, and minor amounts of chert (Rexroad, 1986). The Salem Limestone is primarily limestone and known for exceptionally thick beds (Carr, Rexroad, and Gray, 1986).

3 – Sinkholes & Springs

Sinkholes are surface depressions that form in a variety of ways in karst areas (Figure 4). Sinkholes can have a swallow hole, which is an opening in the ground where water infiltrates. Groundwater flow in karst areas is predominantly fracture flow, meaning the bedrock itself has low permeability while the fractures in the bedrock are open conduits that allow water, soil, and other materials to travel quickly through the subsurface. Water that drains into a sinkhole can eventually discharge at a karst spring (Figure 5).

4 – Karst Desktop Review

A review of available karst resources was conducted prior to the field survey. Those resources include United State Geological Survey (USGS) topographic maps, Indiana Map 1-ft LIDAR topographic, karst spring maps, and private cave databases.

5 – Karst Field Survey

Hydrogeology conducted a karst field survey at the Site on March 21, 2024. Where possible, the Site was walked at 20-foot transects to locate any karst features. Nine sinkholes and two springs were identified during the field survey and are described below (Figure 6, Appendix A). All sinkholes and spring were flagged and should be surveyed prior to development at the Site.

Sinkholes

SH-01 – Sinkhole SH-1 is approximately 10 feet long, 4 wide, and 2 feet deep (Photographs 21-22). Two soil openings are present within the sinkhole.

Mitigation Measures: SH-01 should receive a 25-foot Karst Conservancy Easement (KCE) based on the City of Bloomington zoning guidelines. Additionally, erosion and sediment control measures should be installed around the rim of SH-01 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-02 – Sinkhole SH-02 is 8 feet long, 3 feet wide, and 2 feet deep (Photo 25). Two soil openings are present within the sinkhole.

Mitigation Measures: SH-02 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-02 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-03 – Sinkhole SH-03 is 8 feet long, 4 feet wide, and 3 feet deep. A soil opening is present within the sinkhole and a small surface channel runs into the sinkhole (Photo 29).

Mitigation Measures: SH-03 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-03 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-04 – Sinkhole SH-04 is 3 feet long, 3 feet wide, and 2 feet deep (Photo 31). Two soil openings are present within the sinkhole.

Mitigation Measures: SH-04 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-04 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-05 – Sinkhole SH-05 is 4 feet wide, 3 feet wide, and 2 feet deep (Photo 32). The sinkhole is filled with loose stones.

Mitigation Measures: SH-05 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-05 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-06 – Sinkhole SH-06 is 6 feet long, 5 feet wide, and 3 feet deep (Photo 33).

Mitigation Measures: SH-06 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-06 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-07 – Sinkhole SH-07 is 3 feet wide and 1 foot deep (Photo 34).

Mitigation Measures: SH-07 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-07 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-08 – Sinkhole SH-08 is 2 feet wide and 1 foot deep (Photo 36). The sinkhole is located along the edge of the field and could be related to a field tile.

Mitigation Measures: An exploratory excavation should be conducted at SH-08 to determine if it is a sinkhole or a collapsed field tile. If it is determined SH-08 is a sinkhole it should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-08 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SH-09 – Sinkhole SH-09 is 4 feet wide and 3 feet deep (Photo 37).

Mitigation Measures: SH-09 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SH-09 prior to land clearing operations and until revegetation has occurred at the Site after construction.

Springs

SP-01 – Spring SP-01 has a flow of approximately 0.1 gallon per minute (gpm) and flows into a concrete cistern (Photo 24).

Mitigation Measures: SP-01 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SP-01 prior to land clearing operations and until revegetation has occurred at the Site after construction.

SP-02 – Spring SP-02 has a flow of approximately 4 gpm and flows out of a soil opening (Photo 26).

Mitigation Measures: SP-02 should receive a 25-foot KCE. Additionally, erosion and sediment control measures should be installed around the rim of SP-02 prior to land clearing operations and until revegetation has occurred at the Site after construction.

6 – Study Limitations

Dense vegetation was present in the southwestern portion of the Site (Figure 7). Identification of karst surface features can be difficult in areas with dense vegetation. Clearing of ground vegetation was not within the scope of work for this survey. The identification of karst features at the Site was limited to surface inspection. No subsurface investigations were conducted for this study. Undocumented karst features are possible in the subsurface.

7 – Karst Best Management Practices

The following are karst management practices that should be considered for the Site:

Water Quality

Groundwater recharge in karst areas predominately occurs through sinkholes. Water infiltrates into a sinkhole, then flows along karst conduits and typically discharges to a karst spring. There is minimal filtration of the water throughout this shallow groundwater cycle. Therefore, it is critical to maintain or improve water quality at the Site.

Impacts to water quality at the Site are most likely to occur due to erosion and sediment mobilization during construction. Erosion and sediment control will be critical to preventing water quality impacts. All sinkholes should be protected with appropriate erosion and sediment controls for the duration of construction at the Site.

In addition to these measures a low salt no herbicide/pesticide spray policy should be implemented for the Site.

Drainage Alteration

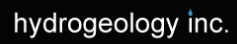
Alteration of natural drainage patterns can result in the development of new sinkholes, particularly when run-off is concentrated. The drainage plan for the Site should maintain the existing drainage patterns wherever possible and prevent concentrated run-off. To prevent development of new sinkholes, detention basins should be lined with an impervious material.

Unknown Karst Features

Previously unknown karst features are possibly present in the subsurface at the Site. If any previously unknown karst feature is identified during development of the Site, the features should be protected with erosion and sediment control measures and inspected by a karst specialist.

8 – Summary

A desktop review and field survey were conducted at the Site to identify any karst features. Nine sinkholes and two springs were identified at the Site. All sinkholes and springs should have a 25-ft KCE and be protected with erosion and sediment control measures throughout the entire construction process. The karst field survey was limited to surface inspection with no subsurface investigation. Unknown karst features are possibly present in the subsurface at the Site. Dense vegetation was present in the southwestern portion of the Site, which prevented close ground inspection in those areas. If a previously unknown karst feature is discovered during construction activities the feature should be protected with erosion and sediment control measures and inspected by a karst specialist.

The logo for hydrogeology inc. features the company name in a lowercase, sans-serif font. The word "hydrogeology" is in black, and "inc." is in a lighter blue color. The text is positioned to the right of a solid black rectangular box.

1211 S Walnut St
Bloomington, IN 47401

Hydrogeology appreciates the opportunity to provide this summary report. If you have any questions, concerns, or comments please do not hesitate to contact me directly at (812) 219-0210.

Sincerely,

Hydrogeology Inc.

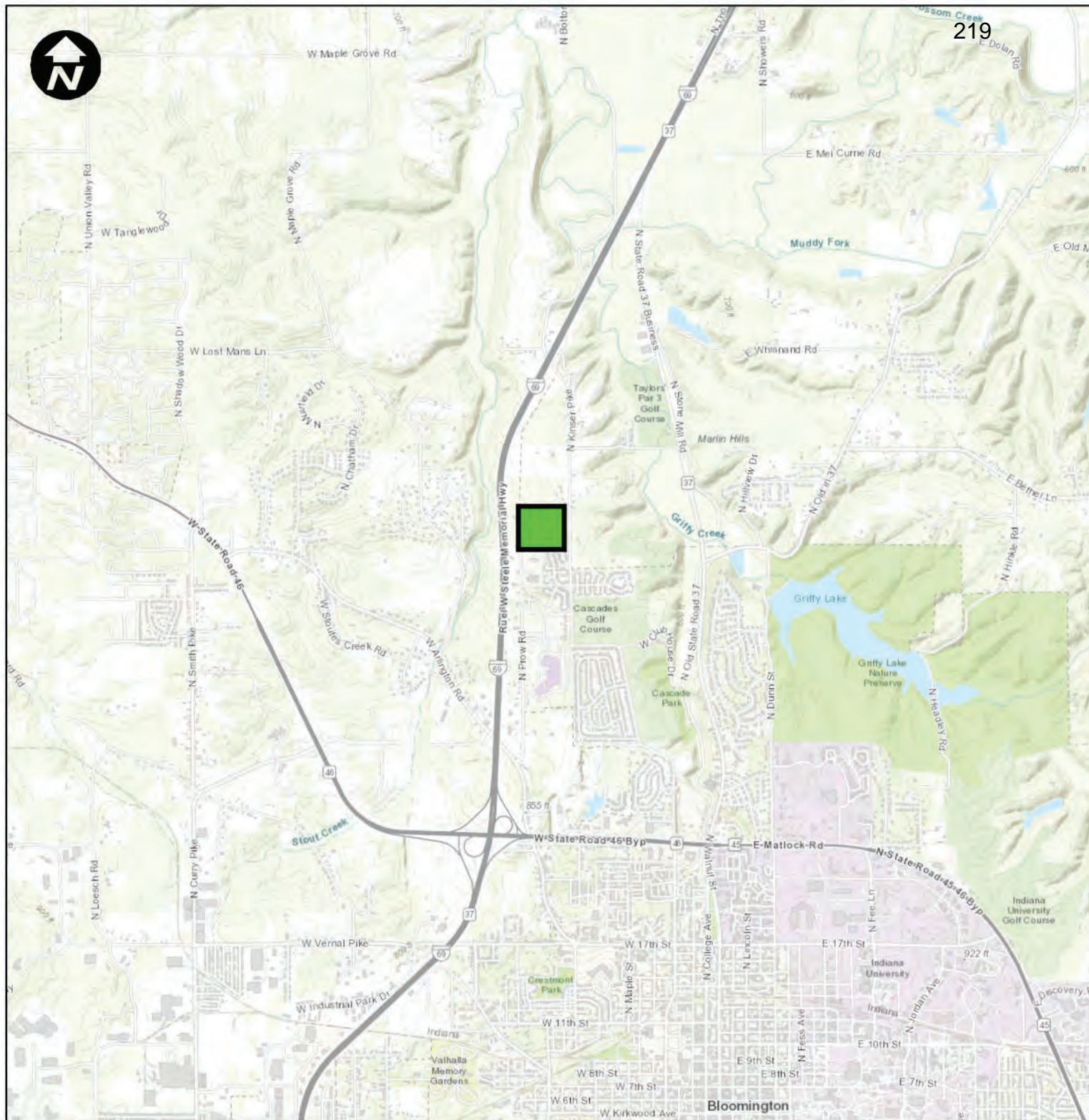
Jason N. Krothe, LPG IN-2511
President

References


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LEGEND

 SITE (not to scale)

0 0.25 0.5 1 Mile

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**KARST SURVEY
KINSER RIDGE
BLOOMINGTON, IN**

SITE LOCATION

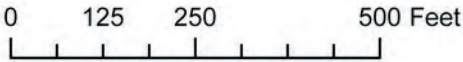
hydrogeology inc.

FIGURE
1



LEGEND

 SITE



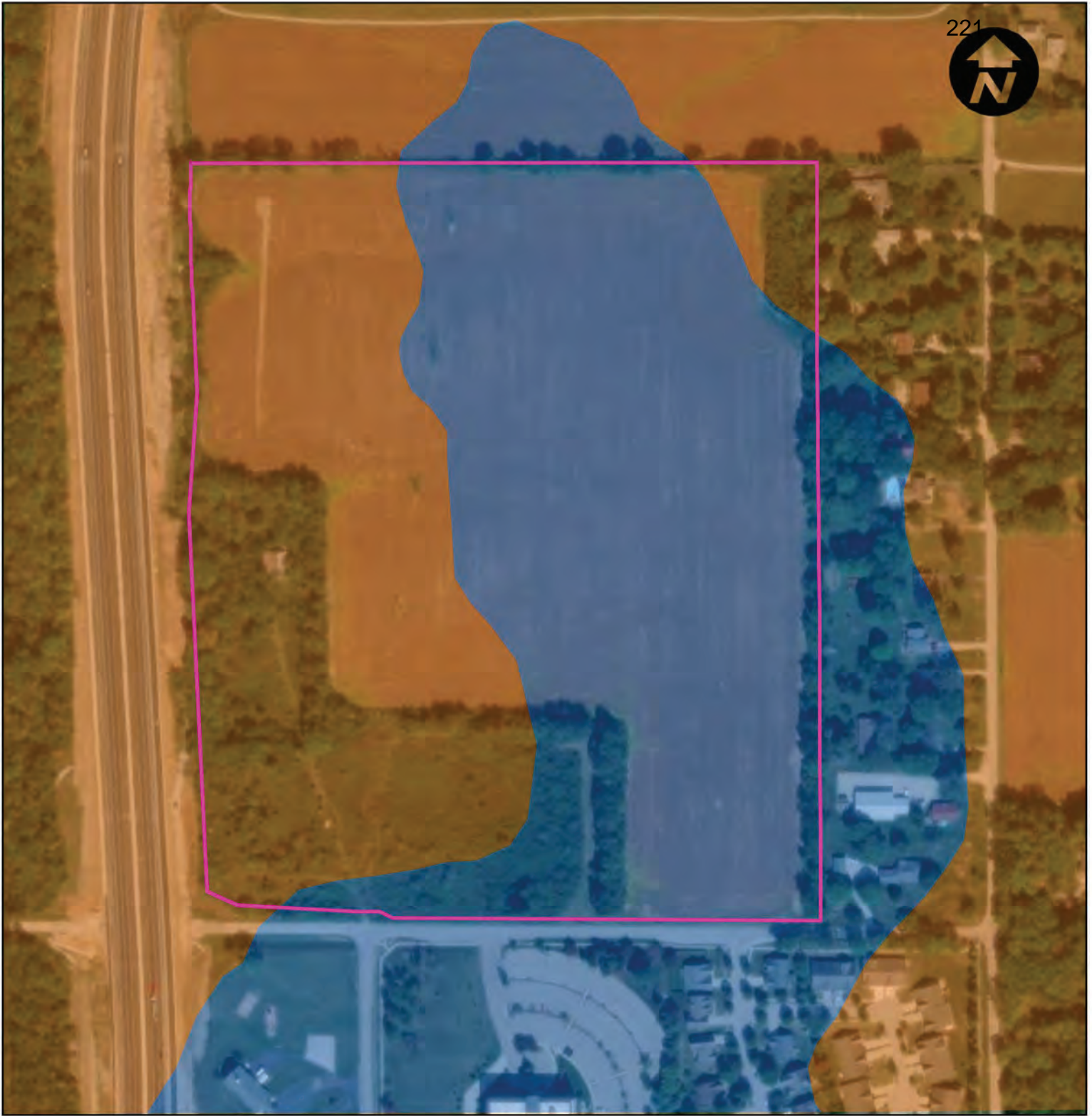
**KARST SURVEY
KINSER RIDGE
BLOOMINGTON, IN**

SITE

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FIGURE
2

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



LEGEND



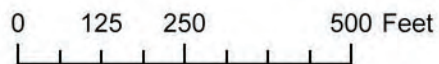
SITE



Salem Limestone



Harrodsburg Limestone and Ramp Creek Formation



KARST SURVEY
KINSER RIDGE
BLOOMINGTON, IN

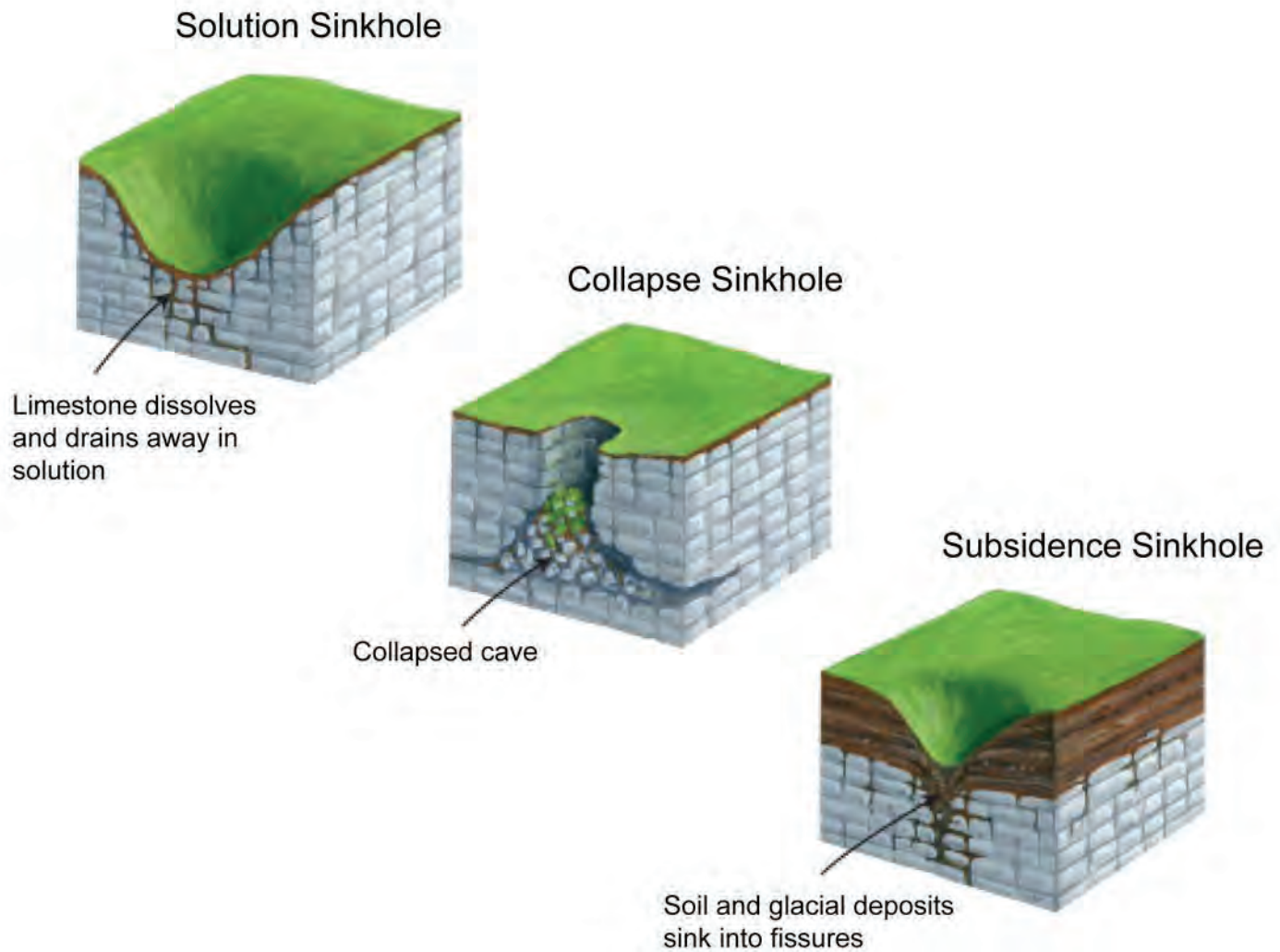
BEDROCK GEOLOGY

hydrogeology inc.

FIGURE

3

Source: Hasenmueller, W. A., Estell, C. M., Keith, B., and Thompson, T. A., 2009, Bedrock geologic map of Monroe County, Indiana: Indiana Geological Survey Miscellaneous Map 73, scale 1:48,000.



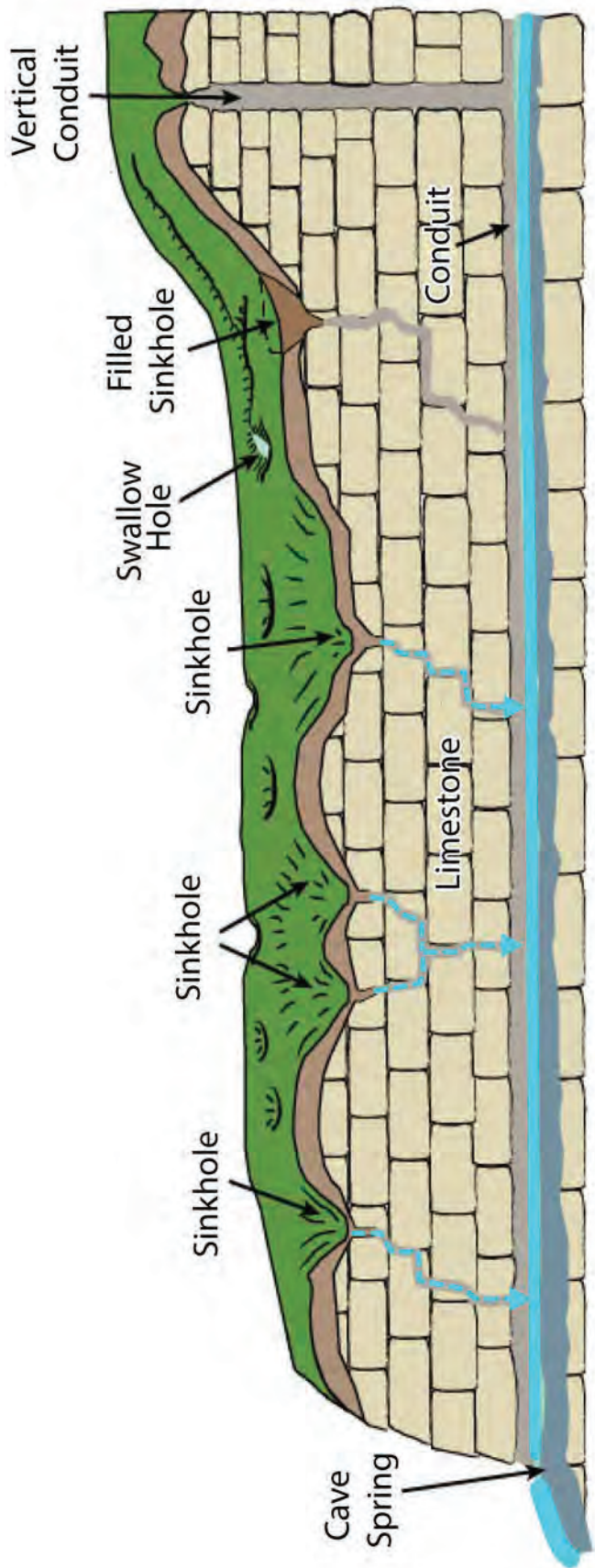
KARST SURVEY
KINSER RIDGE
BLOOMINGTON, IN

SINKHOLE TYPES

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FIGURE

4



<p>KARST SURVEY KINSER RIDGE BLOOMINGTON, IN</p>	<p>CONCEPTUAL KARST CROSS SECTION</p>	<p>FIGURE 5</p> <p>hydrogeology inc.</p>
--	---	--



LEGEND



SITE



SINKHOLE



SPRING

0 125 250 feet

**KARST SURVEY
KINSER RIDGE
BLOOMINGTON, IN**

KARST FEATURES

hydrogeology inc.

FIGURE

6

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



LEGEND

SITE

DENSE VEGETATION

0 125 250 feet


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community


**KARST SURVEY
KINSER RIDGE
BLOOMINGTON, IN**

DENSE VEGETATION

hydrogeology inc.

FIGURE
7

Photograph Number: 1	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: Center of the Site looking northeast.	
Recommended treatment: NA	

Photograph Number: 2	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: Center of the Site looking North.	
Recommended treatment: NA	

Photograph Number:

3

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

East side of the Site looking northeast.

Recommended treatment:

NA

**Photograph Number:**

4

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**


South side of the Site looking north.

Recommended treatment:

NA



Photograph Number: 5	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: East side of the Site looking southwest.	
Recommended treatment: NA	

Photograph Number: 6	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: East side of the Site looking northwest.	
Recommended treatment: NA	

Photograph Number:

7

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

East side of the Site looking southwest.

Recommended treatment:

NA

**Photograph Number:**

8

Coordinates (UTM Meters)

NA


Photograph Date: 3-21-24**Comments:**


East side of the Site looking southwest.


Recommended treatment:


NA



Photograph Number: 9	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: North side of the Site looking south.	
Recommended treatment: NA	

Photograph Number: 10	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: Center of the property looking northwest.	
Recommended treatment: NA	

Photograph Number: 11	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: Center of the property looking north.	
Recommended treatment: NA	

Photograph Number: 12	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: North side of the Site looking southwest.	
Recommended treatment: NA	

Photograph Number:

13

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

Center of the property looking south.

Recommended treatment:

NA

**Photograph Number:**

14

Coordinates (UTM Meters)

NA


Photograph Date: 3-21-24**Comments:**


Center of the property looking northwest.

Recommended treatment:

NA



Photograph Number: 15	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: North side of the Site looking east.	
Recommended treatment: NA	

Photograph Number: 16	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: North side of the Site looking west.	
Recommended treatment: NA	

Photograph Number:

17

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

Northwest corner of the Site looking southeast.

Recommended treatment:

NA

**Photograph Number:**

18

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

North side of the Site looking southwest.

Recommended treatment:

NA



Photograph Number:

19

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

West side of the property looking east.

Recommended treatment:

NA

**Photograph Number:**

20

Coordinates (UTM Meters)

NA


Photograph Date: 3-21-24**Comments:**

West side of the property looking northeast.

Recommended treatment:

NA



Photograph Number: 21	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: SH-01.	
Recommended treatment: 25-foot KCE	

Photograph Number: 22	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: SH-01.	
Recommended treatment: 25-foot KCE	

Photograph Number:

23

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

West side of the Site looking southeast.

Recommended treatment:

NA

**Photograph Number:**

24

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

SP-01.

Recommended treatment:

25-foot KCE.



Photograph Number:

25

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

SH-02.

Recommended treatment:

25-foot KCE.

**Photograph Number:**

26

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

SP-02.

Recommended treatment:

25-foot KCE.



Photograph Number:

27

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

South side of the Site looking north.

Recommended treatment:

NA

**Photograph Number:**

28

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

South side of the Site looking north.

Recommended treatment:

NA



Photograph Number:

29

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

SH-03.

Recommended treatment:

25-foot KCE.

**Photograph Number:**

30

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

South side of the Site looking north.

Recommended treatment:

NA



Photograph Number: 31	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: SH-04.	
Recommended treatment: 25-foot KCE.	

Photograph Number: 32	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: SH-05.	
Recommended treatment: 25-foot KCE.	

Photograph Number: 33	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: SH-06.	
Recommended treatment: 25-foot KCE.	

Photograph Number: 34	
Coordinates (UTM Meters) NA	
Photograph Date: 3-21-24	
Comments: SH-07.	
Recommended treatment: 25-foot KCE.	

Photograph Number:

35

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

Southwest corner of the Site.

Recommended treatment:

NA

**Photograph Number:**

36

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

Sinkhole SH-08.

Recommended treatment:

25-foot KCE.



Photograph Number:

37

Coordinates (UTM Meters)

NA

Photograph Date: 3-21-24**Comments:**

SH-09.

Recommended treatment:

25-foot KCE.



Post-Construction Stormwater Quality BMP Operations and Maintenance Manual

For:

Kinser Ridge Subdivision

**N Kinser Pike, N Prow Rd, W Acuff Rd
Bloomington, Indiana 47404**

BFA Project No.: 402365

**Prepared For:
Beacon Builders, LLC. (Bill Evans)
PO Box 78483
Indianapolis, IN 46278**

**Prepared By: Drew Schrand, Project Engineer.
Checked By: Daniel J. Butler, P.E.**

**Date:
July 22nd, 2024**

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Project Narrative

The project consists of an extension of Prow Road, and three new neighborhood residential roads to accommodate the development of 122 lots to the standards of the R2 zoning parameters outlined in the City of Bloomington's UDO. This development also includes proposed landscaping, four accompanying stormwater quality/detention ponds, and accompanying drainage ways. The development site is located northwest of the intersection of West Acuff Road and North Kinser Ridge.

The above-mentioned stormwater quality/detention ponds and drainage ways are the site's post-construction BMPs along with proposed landscaping and vegetative areas in and out of the pond/bio-retention facilities. Said BMPs are in the northeast, northwest, southeast and southwest of the site. For actual locations see plan sheets at the end of this manual. Potential areas for harmful discharges to stormwater quality/detention ponds include pollutants from proposed roadways. This O/M will be for the maintenance of these BMPs.

BMP Owner Contact Information:
Beacon Builders, LLC. (Bill Evans)
PO Box 78483
Indianapolis, IN 46278
Phone: 317-871-1204

Definitions

Best Management Practice (BMP):

Best Management Practices, refer to structural or non-structural measures designed to improve stormwater quality and reduce stormwater runoff rates flowing downstream from this site.

Rural subdivision stormwater runoff contains many types and forms of pollutants. When compared to stormwater run-off from pre-developed conditions, high concentrations and some contaminants that are not naturally present in surface runoff from undeveloped lands are found. Runoff from undeveloped watersheds contain metals, nutrients, sediment particles, oxygen-demanding compounds, and other constituents. Once developed, constituent loads increase because surface runoff volumes increase and the sources of many of these pollutants also increase. Supplemental applications of compounds, such as fertilizers, tend to increase the availability of some pollutants to stormwater runoff. BMPs are implemented into project design to offset the effects of these pollutants.

BMP Owner:

The owner of the BMP, typically the property owner or developer. The BMP owner may also be the owner of the property in the case of long-term residential owned properties or an agreed upon HOA that maintains long-term BMPs on the property.

Stormwater Quality/Detention Pond:

Stormwater quality/detention ponds are areas where excess stormwater is stored or temporarily held while slowly draining to the site outfall. Stormwater quality/detention basins allow said pollutants to settle out before reaching the site outfall.

Inspections

Routine inspections and maintenance are the responsibility of the BMP owner. The BMP owner shall be financially responsible for any maintenance or repairs required by the City or its representatives during City inspections. The approval maintenance plan and inspection forms provided with this manual should be used as guidance for performing maintenance activities. Completed inspection forms must be maintained by the BMP owner and produced upon request by the City. The City must be notified of any changes in BMP ownership, major repairs or BMP failure in writing within 30 days. The letter should be addressed to:

City of Bloomington Utilities Department
Stormwater Inspector
600 East Miller Drive
Bloomington, IN 47401
Ph: (812) 339-1444

The City and/or its authorized representative has the right to enter the property to inspect BMPs. In the event that the City finds a BMP in need of maintenance or repair, the City will notify the BMP owner of the necessary maintenance or repairs and give the landowner a timeframe for completing the maintenance or repairs. If the maintenance or repairs are not completed within the designated timeframe, the City may perform the maintenance or repairs and bill the BMP owner for the cost of the work.

Inspection & Maintenance Activities

Refer to the checklist provided with this manual for operation, maintenance, repair and inspection of the BMP. The checklist is for the use of the BMP owner in performing routine inspections. The City may perform annual inspections of BMP's using a similar checklist. The BMP owner must maintain and update the BMP operations and maintenance plan.

BMP owners must routinely inspect BMPs to verify that all BMP components are functioning as designed and are not in danger of failing. All BMPs need maintenance to function as water quality and quantity facilities. Maintenance can range from dredging sediment out of the treatment area to cleaning out the underdrain piping.

The BMP owner agrees to the maintenance and inspection programs attached with this manual. Inspections must be documented on the inspection forms included in this Operation and Maintenance Manual.

Here are the guidelines for maintenance required within the pond areas:

The owner is required to inspect the sand filter strips, underdrains, plantings, and earthen dams once a month for the first 3 years, then semi-annually after the third year. If any damage that has caused functionality to cease to these features then repairs or replacement shall be immediate. The underdrains and sand filter strips/filter fabric shall be replaced as detailed in this O/M Manual if functionality has ceased even after cleaning them out. Functionality has ceased if the pooled water in the facilities does not drain within 24 hours of no additional rain events.

Sediment levels within the basin area shall also be monitored to not be allowed to accumulate to a depth above the 8" mark located on the permanent 2" diameter aluminum sediment stake. When sediment accumulates to the 8" mark then said sediment shall be removed and properly disposed to restore the pond or bio-swale to its design capacity.

Also, landscaping within the site's pond areas shall remain in healthy growing conditions with the following landscaping maintenance notes:

Landscaping:

Once the site has been established all landscape maintenance will be provided by the Owner. The use of fertilizers and pesticides shall be used sparingly on the site. Pesticides may only be used for the removal of invasive species, and preferred be completed by OISC-certified pesticide applicators.

The following is a listing of routine landscaping tasks and their maintenance frequency.

<u>Task</u>	<u>Frequency</u>
Mowing & Trimming (outside of pond areas)	Bi-Weekly
Mowing & Trimming (within pond areas)	Once in Spring ONLY (Plantings within bio-swale area require to be a natural growth without being mowed except once in spring)
Tree Pruning	Yearly
Turf & Vegetative Bio-Filter reseeding without bare spots	As needed to maintain mature turf

Water Quality Pond Seeding –

<u>Species</u>	<u>Application Rate</u>
Carex Frankii (Frank's Sedge)	4 ounces/acre
Elymus Riparius (Riverband Wild Rye)	16 ounces/acre
Elymus Cirginicus (Virginia Wild Rye)	32 ounces/acre
Panicum Virgatum (Switchgrass)	4 ounces/acre
Schizachyrium Scoparium (Little Bluestem)	32 ounces/acre
Sorghastrum Nutans (Indian Grass)	8 ounces/acre
Aster Novae-Angliae (New England Aster)	1 ounce/acre

Spill Kit:

The BMP owner shall have a spill kit stored within the equipment storage area at all times.

BMP Owner Acknowledgment

This Operation and Maintenance Manual is in possession of the City of Bloomington Utilities Department Stormwater Inspector (CBU) and serves to ensure the longevity and adequate functioning of said BMP's owned by Beacon Builders, LLC. (Bill Evans) or owner of property in perpetuity. By submitting this Operation and Maintenance Manual to CBU with plans to maintain said BMP's, the BMP owner agrees to follow and abide by the inspection schedule and maintenance activities listed in this manual. The BMP owner is responsible for any additional maintenance and/or repair activities to maintain the function and longevity of the BMP(s). Any modifications to permanent BMP(s) in this manual, up to and including of removal of any infrastructure, requires approval by the City of Bloomington MS4 Coordinator, and may require Drainage Board approval. All responsibilities for inspection and maintenance of the BMP as well as any other responsibilities and obligations which shall be borne by the owner, Beacon Builders, LLC. (Bill Evans), shall also be borne by any successors in interest to the property including any HOA organization that represents the owner in responsibility to maintain the property and drainage facilities.

BMP Owner Signature:

Date

Printed

Kinser Ridge Subdivision
Sediment Basin Operation, Maintenance and Management Inspection Checklist

Location: _____
Date: _____
Inspector: _____
Signature: _____
Time: _____
Title: _____

Refer to Exhibits 1 and 2
S = Satisfactory
U = Unsatisfactory

Maintenance Item	S or U	Comments	Recommended Maintenance Procedure
1. Pooling Area & Embankment			
Signs of soil erosion			For stubborn areas use erosion control matting and reseed.
Animal burrows			Contact the Animal Control specialist for animal removal procedures.
Embankment cracking, bulging or settling			Some is expected during droughts. Repair with soil, erosion control mat and reseed.
Embankment free of woody vegetation			Remove any trees or shrubs growing within the pond basin area.
Embankment leaking			Contact the BMP owner. Owner to contact the engineer.
Depth of sediment at sediment outlet control riser			Remove sediment after 8" accumulation to maintain original detail depth - see details of ponds and location map
2. Emergency Spillway			
Rock rip-rap condition			Redistribute rip rap to evenly cover the overflow area from the spillway along flowline.
Emergency spillway clear of obstructions			Remove trash, debris and small woody plants between pond spillway and along flowline.
3. Perforated Pipe Riser			
Pipe riser condition			Excessive fading of the riser around the top may indicate a weakening of the pipe. Replace pipe riser.
Pipe riser blockage			Remove trash and debris from the top of and within the riser.
InDOT crushed stone surround			The stone acts as a filter. If the stone is caked with soil then it will not filter. Replace the stone.

**PLAT COVENANTS, RESTRICTIONS AND EASEMENTS FOR
KINSER RIDGE SUBDIVISION**

The undersigned, Beacon Builders LLC, (the “Developer”) owner of the real estate shown and described herein hereby certifying that it has laid off, platted, and subdivided, and does hereby lay off, plat, and subdivide said real estate in accordance with this plat and certificate. This subdivision shall be known as “Kinser Ridge” containing 124 lots in three (3) sections and is an addition to the City of Bloomington in Monroe County, Indiana. In addition to the covenants and restrictions hereinafter set forth and contained in this plat, the real estate described in this plat is also subject to an existing Power line in favor of Duke Energy, Instrument No. _____ Indiana Recorder’s office as set forth in the Declaration Any conflicting covenant or restriction contained in this plat shall govern and control to the extent only of an irreconcilable conflict with any of the covenants and restrictions contained in the Declaration, it being the intent hereof that all such covenants and restrictions shall be applicable to said real estate to the greatest extent possible. All the terms, provisions, covenants, conditions, and restrictions contained in the Declaration are hereby incorporated herein by reference. To provide adequate protection to all present and future owners of lots in this subdivision, the following covenants, restrictions, and limitations are hereby imposed upon and shall run with the land included in this subdivision and shall be binding upon the Developer and anyone at any time owning any part or portion of such land.

1. **ZONING.** All lots in this subdivision shall be for R-2 zoning residential purposes only.
2. **MINIMUM LIVING SPACE REQUIREMENTS.** The minimum square footage of living space of Dwelling Units shall be, exclusive of porches, patios, basements, and garages are as follows: not less than 1,400 square feet of ground floor living area for a one-story single-family dwelling. A home with two or more stories, the ground floor shall be a minimum of 650 square feet and not less than 1,400 square feet of total living area.
3. **EXTERIOR HOME ARCHITECTURAL REQUIREMENT.** A minimum of 50% of the front first floor of each home excluding openings shall be constructed of hard scape materials. The maximum height of materials shall be four (4’) feet above brick ledge.
4. **Garage Requirement.** All houses shall have, as a minimum, an attached, enclosed, or detached 2 bay garage.
5. **DRIVEWAYS.** All proposed driveways to be constructed within the Kinser Ridge shall be made of concrete.
6. **DEDICATION.** The streets and sidewalks, if not heretofore dedicated, are hereby dedicated to public use.
7. **RESIDENTIAL SET-BACKS.** Building set-back lines are hereby established as shown on this plat, between which lines and the property lines of the streets no building or structure (except walls and fences to the extent permitted hereby or by the Declaration), shall be erected or maintained. No buildings, structures or other improvements shall be erected closer to any side lot line of any lot than 10 feet. The front facing garages of the homes shall be constructed 25’ behind the front right-of-way line. Homes with garages at the rear of the home shall be a minimum of 15’ the front setback line. The rear of the home

shall be located 25' from the rear line of the individual lot or current zoning requirements. The rear setback line is shown on said plat of Kinser Ridge.

8. Mailboxes. The Owner shall have installed upon occupancy of a new home, and maintain in good condition thereafter, a mailbox which shall be in accordance with the design, type, color and location required by Developer or the Association from time-to-time to maintain uniformity of appearance throughout the Community.

9. Antennas. No exterior antennas, aerials, satellite dishes, or other apparatus larger than one meter in diameter and intended for the reception of television, radio or satellite or other signals of any kind shall be placed, allowed, or maintained upon any portion of any Lot. Any such antennas, aerials, satellite dishes or other such apparatus that do not exceed one meter in diameter shall be permitted on a Lot only if such will be aesthetically concealed by landscaping or otherwise and shall be installed so as not to constitute a nuisance or offensive effect on other Lot Owners. No radio or television signals, nor electromagnetic radiation, shall be permitted to originate from any Lot which may unreasonably interfere with the reception of television or radio signals within the Community, provided however that the developer and/or the Association shall have the right, without obligation, to erect an aerial, satellite dish, or other apparatus or master antenna or cable system for the benefit of all or a portion of the Property, should any such master system or systems be utilized by the Association and require any such exterior apparatus.

10. Signs. No permanent signs of any kind shall be erected within the Community, except standard real estate "for sale" signs, entry and directional signs installed by the Developer and such signs as may be required by legal proceedings. No business signs, flags, banners, or similar Items advertising or providing directional Information shall be erected by any Owner. If permission is granted to any Person to erect a sign, including name and address signs within the Community, the HAO reserves the right to determine the size and composition of such a sign as it, in its sole discretion, deems appropriate.

11. Parking and Prohibited Vehicles.

(a) Parking. To facilitate the free movement of vehicles, no vehicles belonging to Owners or guests or invitees shall be parked on the paved portions of any street for more than 6 consecutive hours, except during bona fide temporary emergencies.

No Owners or other occupants of any portion of the Community shall repair or restore any vehicles of any kind upon or within any Lot or within any portion of the Common Areas, except (i) within enclosed garages or workshops, or (ii) for emergency repairs, and then only to the extent necessary to enable the movement thereof to a proper repair facility.

(b) Prohibited Vehicles. Commercial vehicles primarily used or designed for commercial purposes and that display company names not used as a daily driver, logos, advertising, tractors, mobile homes, recreational vehicles, trucks weighing in excess of three-quarters of a ton, trailers (either with or without wheels), campers, camper trailers, boats and other watercraft, and boat trailers shall be parked only in enclosed garages or areas, if any, designated by the Board. Stored vehicles and vehicles which are obviously inoperable or do not have current operating licenses shall not be permitted on the Property except within enclosed garages. Notwithstanding the foregoing, service and delivery vehicles may be parked in the Property during daylight hours for such period as is reasonably necessary to provide service or to make a delivery to a Lot or the Common Areas, and boats, boat trailers, campers and motor homes

may be parked for a maximum of 24 hours at one time for the purpose of preparation or loading. Any vehicles parked in violation of this Section or parking rules promulgated by the HOA may be towed. All

12. Sidewalks, all lots shall have sidewalk(s) of concrete along the entire side(s) of the lot facing any street. The sidewalk shall be built to City of Bloomington specifications. Additionally, the sidewalk must be completed prior to occupancy of the residence, and the builder is responsible for construction of the sidewalk.

13. Swimming Pools, no above or in ground pools will be permitted.

14. Kinser Ridge contains a dedicated greens space “Common Areas” consisting of a drainage basins and naturally wooded area (“Preserved Woods”). That area is intended to remain a natural vegetative area for the use and enjoyment of the owners of lots within Kinser Ridge. Kinser Ridge Homeowners Association may remove dead and dying trees, remove invasive plants, and deaden and remove vines. However, owners may not clear other trees within the Preserved Woods.

15. No septic systems will be allowed. Dwellings must be connected to the City of Bloomington’ sanitary sewer system prior to occupancy.

16. No commercial signage may be placed on any lot at any time except for a reasonably sized sign advertising the lot or dwelling for sale. The developer, Beacon Builders and its assignees, are exempt from this requirement while any lots owned by it are left unsold. In addition, Beacon Builders may, at its sole discretion, while any lots owned by it are left unsold, allow others to place larger signs that are approved by Beacon Builders.

17. Garage sale, rummage sale, yard sale or other similar advertising signs may not be placed on a lot for more than seven (7) days in any calendar year.

18. Fences are to be limited to the side or back yards (that is, they cannot extend past the adjacent rear of the house). Only vinyl fences, decorative metal fences and chain link fences are allowed. If the fence is a chain link fence, it must be either black or brown in color and not over forty-eight (48) inches tall. Any other fencing must not exceed seventy-two (72) inches. Vinyl fences must white. Decorative metal fences may be black. Homeowners desiring to install a fence must complete the Kinser Ridge Design Review Application Form for Fences and **the fence must be approved by the Design Review Committee before installation begins.** The Design Review Committee will relay its decision regarding the approval by way of a signed Design Review Approval Form within thirty (30) days of receiving the Design Review Application. The City of Bloomington has ordinances that apply to fences, and it is the homeowner’s responsibility to be sure that these regulations are met.

19. The city of Bloomington Utilities shall be the residential water supply.

20. All utilities must be placed underground.

21. Animals and Pets. No animals, livestock or poultry of any kind shall be raised, bred, or kept on any portion of the Property, except that dogs, cats or other usual and common household pets may be permitted on a Lot subject to rules and regulations adopted by the Association through its Board. However, those pets which are permitted by any Owner or occupant to roam free, or, in the sole discretion of the Association, endanger the health, make objectionable noise, or constitute a nuisance or

inconvenience to the Owners of other Lots or the Owner or any portion of the Community, shall be removed from the Community upon request of the Board. If the Owner fails to honor such request, the Board, in its discretion, may have the pet removed. No pets shall be kept, bred, or maintained for commercial purposes. Dogs shall always whenever they are outside be confined on a leash held by a responsible person. No pet shall be permitted to leave its excrement on any portion of the Common Areas, and the Owner of such pet shall immediately remove the same.

22. **Storage Tanks.** No outside fuel storage tanks about or below the ground shall be placed in this subdivision.

23. **Lot Maintenance, Outbuildings and Basketball Goals.** All lots on which construction has begun must be mowed and maintained by lot owner. After construction, the structure, grounds, and recreational equipment shall be maintained in a neat and attractive manner. Firewood shall be kept behind the residence and stacked in a neat manner. Brightly colored plastic tarps cannot be used to cover items outdoors. Outbuildings or outside storage units or accessory buildings must be similar to primary residence) shall not be constructed or permitted on any lot in this subdivision. Basketball goals attached to the house or garage shall not be permitted.

24. **Nuisances.** No noxious or offensive trade shall be permitted upon any lot in this subdivision, nor shall anything be done thereon which may be a nuisance or annoyance to the neighborhood. No refuse will be maintained on the lot. Garbage and trash shall be kept in containers which are not visible from the street, except on collection day.

25. **Lakes and Water Bodies.** All lakes, ponds and streams within the Property, if any, shall be aesthetic amenities only and no other use thereof including without limitation, fishing (except from the bank as allowed by the Homeowners Association), swimming, boating, playing or use of personal flotation devices, shall NOT be permitted. The Homeowners Association shall not be responsible for any loss, damage, or injury to any person or property arising out of the authorized or unauthorized use of lakes, ponds, or streams within the Property. No docks, piers or other structures shall be constructed on or over any body of water within the Property.

26. **EASEMENTS. "Drainage and Utility Easement".** The strips of ground or areas indicated as "Drainage & Utility Easement" (D. & U. E. or Drainage & Utility Easement.) are reserved for the use of the Public Utilities, Country Meadows Homeowners Association, and the City of Bloomington, its successors and assigns, to install, inspect, repair, replace and maintain water and sewer mains, poles, ducts, lines, wires and drainage facilities, subject at all times to the proper authorities and to the easement herein reserved; no permanent or other structures are to be erected or maintained upon said strips or areas of land; owners of lots in this subdivision shall take title to their lots subject to said easement rights.

"Access Easement". The strips of ground or areas indicated as "Access Easement" (A.E.) are reserved for the use of the Kinser Ridge Homeowners Association and the City of Bloomington for limited access to the Pond Maintenance Easements, and said access being limited to that necessary to utilize said Lake Maintenance Easements (defined below); no permanent or other structures are to be erected or maintained upon said strips or areas of land; owners of lots in this subdivision shall take title to their lots subject to said easement rights.

27. **STORM DRAINAGE MAINTENANCE.** The maintenance of the storm drainage system for this subdivision by the Homeowners Association shall include but shall not be limited to the maintenance of all detention areas, inlet structures, open ditches, pipes, swales, and paved swales. The costs and expenses of such maintenance of the storm drainage system shall be assessed as part of the general assessment

against the owners of all lots in this subdivision as provided in the Declaration and shall be secured by a lien against all lots in this subdivision. Sump pumps, gravity drains and other drains serving individual residences on lots shall outfall only into drainage swales or storm structures included in the storm drainage system for the subdivision.

28. **DRAINAGE SWALES.** Drainage swales (ditches or drainage detention areas) on dedicated easements or side yards are not to be altered, dug out, filled in, tile, or otherwise changed. Property owners must maintain these swales as sodded grass across or other non-eroding surfaces. Water from roofs or parking areas must be contained on the property long enough so that its drainage swales or ditches will not be damaged by such water. Any property owners altering, changing, or damaging these drainage swales or ditches will be held responsible for such action and will be given 10 days noticed by certified mail to repair said damage after which time, if no action is taken, the Homeowners Association will cause said repairs to be accomplished and the statement for costs of the said repairs will be sent to the affected property owner for immediate payment and such costs will constitute a lien on the property owner's lot until paid.

29. **OBSTRUCTIONS.** No wall, hedge or shrub plantings which obstructs sight lines at elevations between 2½ and 10 feet above the street shall be placed or permitted to remain on any corner lot within the triangular area formed by the street property lines and a line connecting points 35 feet from the intersection of said street lines, or in the case of a rounded property corner from the intersection of the street lines extended. The same sight line limitations shall apply to any lot within 10 feet from the intersection of a street line with the edge of driveway pavement. No tree shall be permitted to remain within such distances of such intersections unless the foliage line is maintained at sufficient height to prevent obstruction of such sight lines. No driveway shall be located within 40 feet of the intersection of two street lines.

30. **SALES OFFICE.** To the extent deemed necessary or desirable by Developer, Developer shall be permitted to place sales offices and construction, development, marketing, and maintenance of the subdivision on any unsold lot or on any Common Area in the subdivision until 180 days following the sale, closing and deed transfer to a lot owner other than Developer of the last lot in the subdivision.

31. **COVENANTS APPURTENANT TO LAND.** These covenants are to run with the land and shall be binding on all parties and all persons claiming under them for a period of twenty-five (25) years from the date these covenants are recorded, at which time said covenants shall be automatically extended for successive periods of ten (10) years each, unless at any time after fifteen (15) years a majority of the then owners of the lots in this subdivision agree to change (or terminate) said covenants in whole or in part and on the condition that an instrument to that effect signed by the lot owners voting in favor of change has been recorded; provided, however, that no change or termination of said covenant shall affect any easement hereby created or granted unless all persons entitled to the beneficial use of such easement shall consent thereto. Notwithstanding the foregoing, Covenant #4 above and any covenant established for the benefit of the City of Bloomington may not be discontinued by a vote of the owners of the lots in this subdivision.

32. **Homeowners Association.** The Owners of any lot subject to these Restrictions, by acceptance of a deed conveying title thereto, or the execution of a contract for the purchase thereof, whether from the Developer or a subsequent Owner of such lot, shall accept such deed and execute such contracts subject to each Restriction and agreement herein contained. By acceptance of such deed or execution of such contract, the Owner acknowledges the rights and powers of the Developer and of Centennial Community Homeowners Association ("Homeowners Association or Association") and the Umbrella Association

(including automatic membership therein by all lot owners) with respect to these Restrictions, and also, for themselves, their heirs, personal representatives, successors and assigns, such Owners covenant and agree and consent to and with the Developer, the Associations and to and with the Owners and subsequent owners of each of the lots affected by these Restrictions to keep, observe, comply with and perform such Restrictions and agreements.

The Homeowners Association may be managed by the Developer or its designated agent until such time as eighty (80) percent (%) of the lots are transferred from the Developer to an original owner. After such time as the Developer no longer owns a minimum of eighty (80) percent (%) of the lots, the Homeowners Association shall hire a professional property management firm to assist with the management, administration, operation, and maintenance of the subdivision. The beginning HOA fees are \$250 annually and collected at the time of closing with the builder/developer. No proration of the fee shall be made. The opening HOA fees shall be consistent with all homeowners.

33. **ENFORCEMENT WAIVER.** Enforcement shall be by proceedings at law or in equity against the person or persons violating or attempting to violate any covenant either to restrain violation or to recover damages. Invalidity of any one of these covenants by judgment or court order shall in no way affect any of the other provisions which shall remain in full force and effect. Failure to enforce any specific requirement of the covenant shall not be considered as a waiver to enforce any covenant herein, thereafter. Notwithstanding the foregoing, any violation of these covenants or the Declaration may be waived by a majority (80%) of the then owners of the lots in this subdivision.

34. **AMENDMENTS AND SUPPLEMENTS.** Developer hereby reserves the right, from time to time and at any time, to modify, supplement or amend these easements, covenants and restrictions, without the consent of any owner of party in interest, if Developer records the modification in the Office of the Recorder of Johnson County, Indiana, and the modification is for any one or more of the following purposes: (i) to extend the provisions of these easements, covenants and restrictions to bind and benefit the Annexed Real Estate and the owner(s) of a lot within the Annexed Real Estate; (ii) to clarify, further define or limit any easement, or otherwise exercise any rights reserved herein; or (iii) to change the substances of one or more covenants, conditions, terms or provisions hereof provided that such change (A) does not materially increase the obligation(s) of any owner under any covenant, condition, term or provision without such owner's consent or (B) is necessary to comply with a bona fide governmental requirement, including applicable laws, ordinances, regulations or orders of any municipality or court having jurisdiction.

35. **Additional City of Bloomington Covenants and Restrictions.** Pursuant to the Zoning Code of the City of Bloomington and the July 8th, 2024 Unified Development Ordinance, shall be adhered to and are required to be shown on the accompanying plat. *There are situations and instances where the Declarations of Covenants, Conditions and Restrictions and the covenants hereto before may be in conflict.* The most restrictive shall apply.

IN WITNESS WHEREOF, the undersigned, as the owner of the above-described real estate, has hereunto caused its name to be subscribed this _____ day of _____, 2024.

BEACON BUILDERS LLC.

By: _____
Jason Smith, Owner









Old Indiana Queen Brick

Lighthouse Red Siding



White Trim



Dark Grey Door





Richmond Red Siding



White Trim

Ashbury Brick

Cream Door





The 2082



Ashbury Brick



Regatta Blue Siding



White Trim



Dark Grey Door





Signature Blend Brick



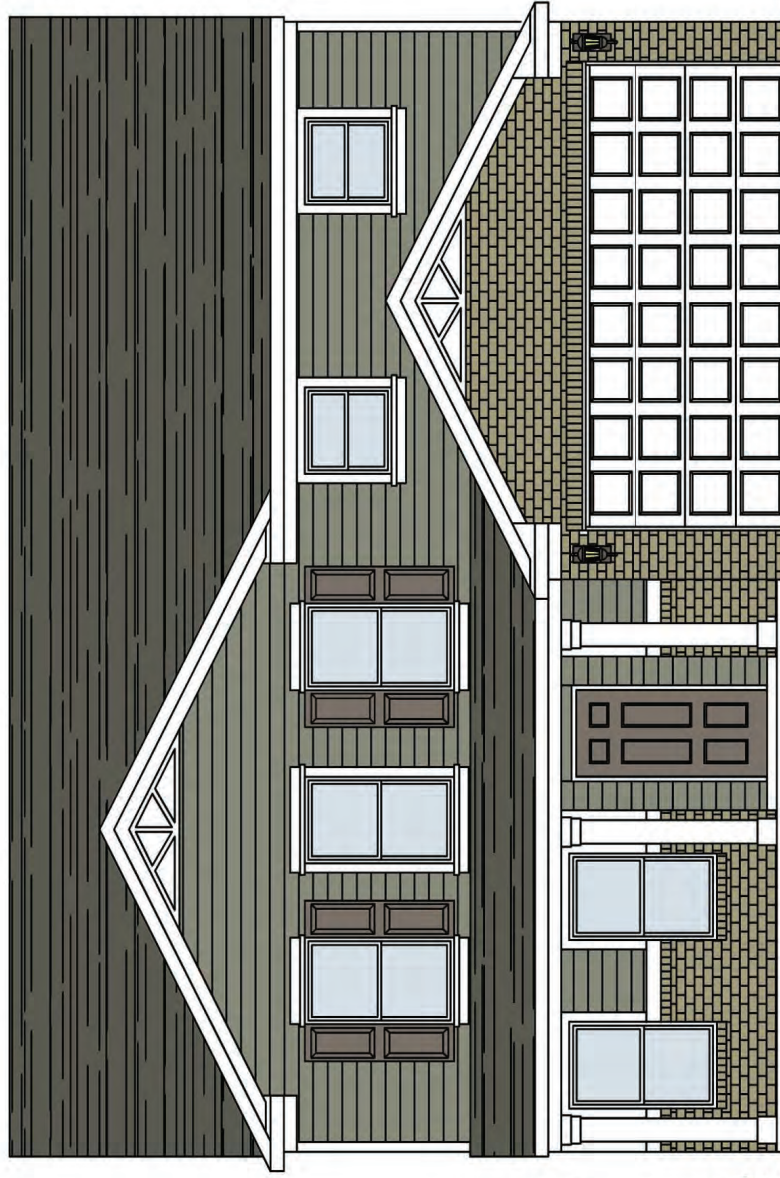
Rain Forest Siding

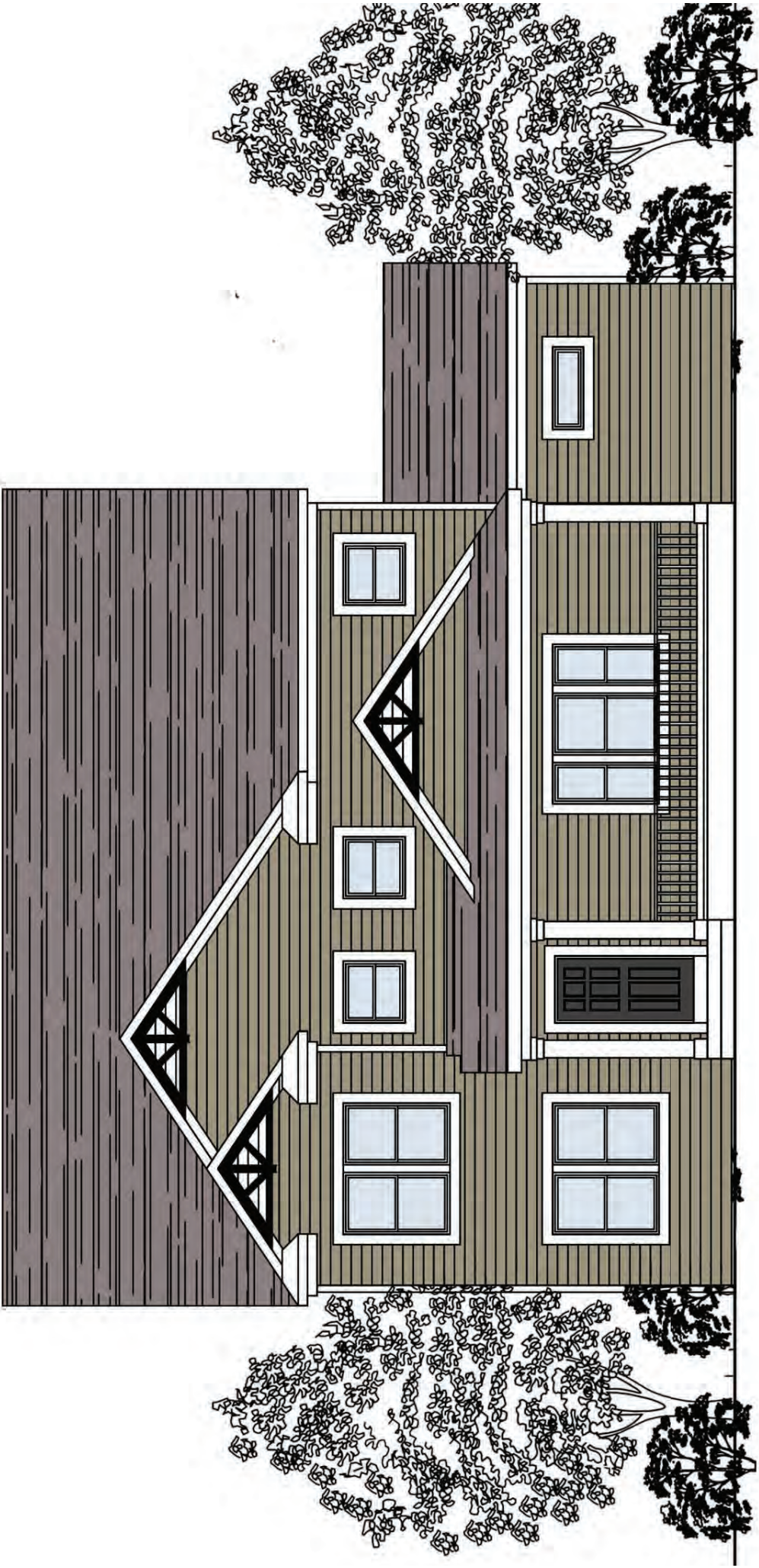


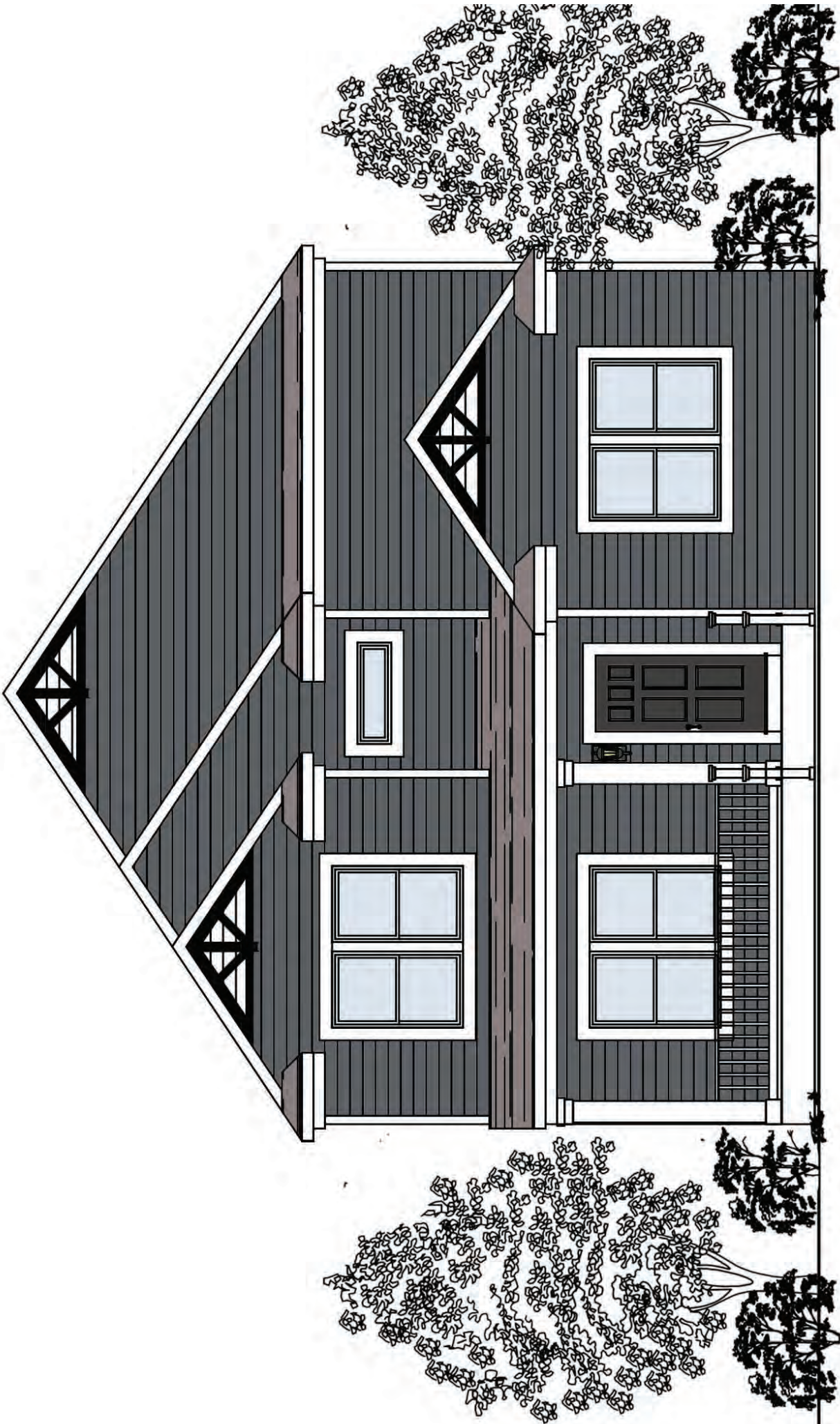
White Trim

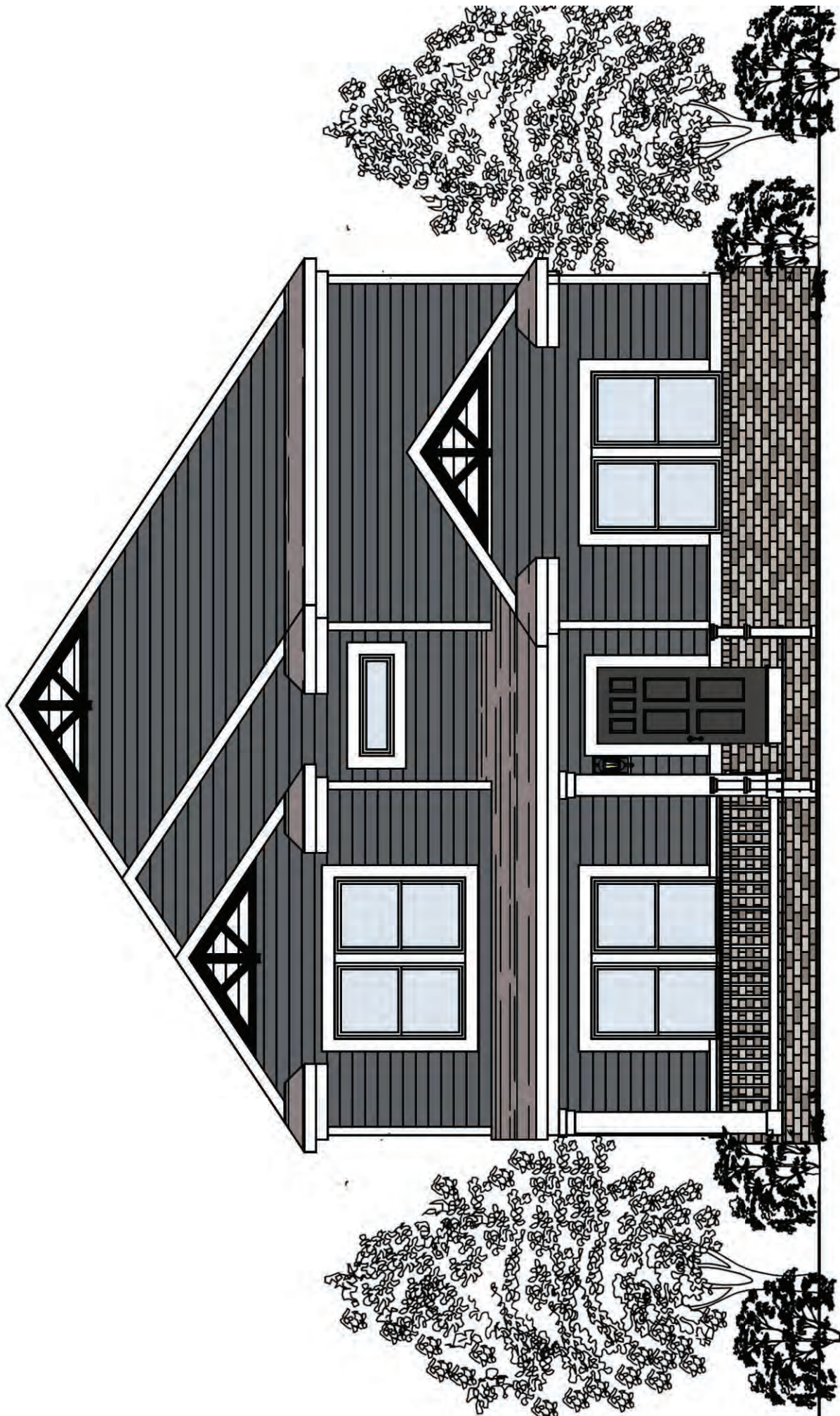


Dark Brown Door









Case #s ZO-30-24 Memo

To: Bloomington Plan Commission

From: Jackie Scanlan, AICP Development Services Manager, Interim Director

Date: August 12, 2024

Re: Text Amendments to Unified Development Ordinance

The Planning and Transportation Department proposes an update to the Unified Development Ordinance (UDO), Title 20 of the Bloomington Municipal Code, in order to address two legislative changes that affect this Title.

Title 13 was approved by the Bloomington Common Council on May 8, 2024 and signed into law by Mayor Thomson on May 13, 2024. Title 13 went into effect on July 1, 2024. Title 13, Stormwater, addresses stormwater permitting requirements enacted by the Indiana Department of Environmental Management. Stormwater management was previously, in part, regulated by Title 20. This Ordinance seeks to amend Title 20 in order to align it with approved Title 13. The changes to Title 20 include a removal of the grading permit and a reconfiguration of permitting the rest of the site improvements, including parking, landscaping, bicycle parking, etc. that were previously reviewed for permitting in through the grading permit process. There are also updates in the parking section related to stormwater treatment in parking lots, as well as the removal of the Erosion and Siltation section. All items removed from Title 20 are now covered by the permitting process in Title 13.

The second legislative change was approved by the State of Indiana legislature and is related to steep slope regulation. The regulations related to development on steep slopes is contained within Title 20. This Ordinance seeks to amend Title 20 in order to align it with the new State regulations. Title 20 is proposed to change the outlying slope percentage from 18 percent to less than 25 percent.

BLOOMINGTON

INDIANA



UNIFIED DEVELOPMENT ORDINANCE

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Chapter 20.01: Ordinance Foundation

20.01.010 Title, Purpose, and Effective Date

(a) Title

The ordinance codified in this UDO shall be known, cited, and referred to as the "Bloomington Unified Development Ordinance" and may also be cited or referred to as the "Unified Development Ordinance," the "UDO," the "Zoning Ordinance," or the "Subdivision Control Ordinance."

(b) Purpose

This UDO is adopted to:

- (1) Promote the orderly, responsible, and sustainable development and redevelopment of the areas within the City in accordance with the Comprehensive Plan and its components, including but not limited to the Transportation Plan, and subarea plans, which include among others the downtown vision and infill strategy plan, along with such additions and revisions as may be made to such plans after the effective date, and with all other city land use policy;
- (2) Reduce greenhouse gas emissions and prepare for the impacts of climate change on our community;
- (3) Promote the public health, safety, morals, ecosystem services, comfort, convenience, and general welfare;
- (4) Protect the character and stability of residential, institutional, business, employment, and natural areas;
- (5) Provide a safe, efficient, accessible, and connected system of transportation that emphasizes public transit, walking, and biking to enhance options to reduce overall dependence on the automobile;
- (6) Secure adequate light, air, convenience of access, and safety from fire, natural disasters, and other danger, which may include providing adequate open spaces for light, air, and outdoor uses;
- (7) Preserve and enhance the scenic beauty, aesthetics, and environmental integrity of the City;
- (8) Encourage compatibility between different land uses and to protect the scale and character of existing development from the encroachment of incompatible uses;
- (9) Regulate and restrict the location and intensity of use of buildings, structures, and land for trade, industry, residence, and other uses;
- (10) Define the powers and duties of administrative officers and bodies as provided herein, and to establish procedures for the implementation and enforcement of this UDO;
- (11) Establish corrective and punitive recourse for violations or noncompliance regarding the provisions of this UDO;
- (12) Ensure ongoing compliance with the provisions of this UDO by requiring regular maintenance and replacement, as needed, of required improvements, including but not limited to landscaping;
- (13) Establish reasonable standards and procedures for subdivisions, in order to further the orderly layout and use of land;
- (14) Avoid scattered, illogical, and uncontrolled subdivisions of land that would result in the imposition of an excessive expenditure of public funds for the distribution or supply of infrastructure and/or services;

- (15) Ensure the provision of drainage facilities, the safeguarding of the water table, and the protection from flooding or the causing of increased risk of flooding;
- (16) Prevent and mitigate the pollution of air, water, and soil;
- (17) Ensure that the cost of design and installation of improvements in new, platted subdivisions are borne by the developer and persons purchasing the lots, and to avoid any direct or indirect burden placed upon adjacent property owners or the city as a whole;
- (18) Ensure proper legal descriptions, legal recording, and monumenting of subdivided land;
- (19) Further such other purposes as are stated within specific provisions of this UDO;
- (20) Minimize the negative secondary impacts of sexually oriented businesses by avoiding their undue concentration and by separating them from sensitive land uses;
- (21) Protect the integrity and unique, diverse character of the Courthouse Square Downtown Character Overlay and the University Village Downtown Character Overlay areas;
- (22) Accommodate the need for student housing while minimizing any negative impacts of that housing on residential neighborhoods or the character of downtown and other mixed-use areas;
- (23) Encourage sustainable forms of development that reduce avoidable negative impacts on the environment; and
- (24) Encourage the provision of affordable housing for very low-, low-, and moderate-income households to help maintain a diverse housing stock and to allow Bloomington residents to have better access to jobs and to improve their economic status.

(c) Effective Date

This UDO shall become effective on 04/18/2020. All references in this UDO to the “effective date of this UDO” or to the “effective date” shall refer to that date unless otherwise stated.

20.01.020 Authority, Applicability, and Jurisdiction

(a) Authority

- (1) This UDO is adopted by the city pursuant to its authority under the laws of the state of Indiana, the Bloomington Municipal Code (BMC), and all other applicable authorities and provisions of Indiana statutory and common law.
- (2) Whenever any provision of this UDO refers to or cites a section of the Indiana state statute and that section is later amended or superseded, this UDO shall be deemed amended to refer to the amended section or the section that most nearly corresponds to the superseded section.

(b) General Applicability

- (1) After the effective date of this UDO, no building or structure or any portion thereof, or use of land, whether existing or established after the effective date, shall be established, altered, changed, erected, constructed, reconstructed, moved, divided, enlarged, demolished or maintained except in accordance with the provisions of this UDO, except as otherwise provided in this UDO.

- (2) This UDO shall be read in terms of and shall be interpreted to include as an integral part thereof any and all other provisions of the Bloomington Municipal Code which are necessary for an understanding of this UDO and the attainment of its purposes.

(c) Jurisdiction

This UDO shall apply to all land, uses, buildings and structures within the incorporated City of Bloomington, including but not limited to those areas identified within the most current operative interlocal cooperation agreement between the City of Bloomington and Monroe County, Indiana in regard to planning and zoning jurisdiction, as such agreement may be amended or extended after the effective date.

(d) Severability

If any of the provisions of this UDO are declared invalid, the other provisions shall remain in full force and effect.

(e) Official Zoning Map

- (1) The location and boundaries of the zoning districts are hereby established on a map entitled "Official Zoning Map," as it may be amended from time to time, which accompanies and is hereby incorporated in and made a part of this UDO. The Official Zoning Map is a geographic coverage layer entitled "Zoning" that is maintained as part of the City's geographic information system (GIS) under the direction of the Planning and Transportation Director.
- (2) The Planning and Transportation Director may authorize printed copies of the Official Zoning Map to be produced and shall maintain digital or printed copies of superseded versions of the Official Zoning Map for historical reference.
- (3) The Official Zoning Map shall be on file and available for public inspection in the Planning and Transportation Department.

20.01.030 Interpretation and Conflicting Provisions

(a) Rules of Interpretation

(1) Minimum Requirements

The provisions of this UDO shall be construed to achieve the purposes for which they are adopted. In interpreting and applying the provisions of this UDO, these provisions shall be held to be the minimum requirements for the protection and the promotion of the public health, safety, morals, ecosystem services, comfort, convenience, and general welfare.

(2) Conflicts or Inconsistency

(A) Internal

Unless otherwise specifically stated within this UDO, and unless the context clearly indicates the contrary, if two or more provisions of this UDO are in conflict or are inconsistent with each other, then the most restrictive provision shall apply.

(B) Federal, State and Local

- i. Whenever a provision of this UDO imposes a greater restriction or a higher standard than is required by any state or federal law or regulation, or other county or city ordinance or regulation, the provision of this UDO shall apply.
- ii. Whenever a provision of any state or federal law or regulation, or other county or city ordinance or regulation imposes a greater restriction or a higher standard than is required by this UDO, the provision of the state or federal law or regulation, or other county or city ordinance or regulation shall apply.

(C) Other

- i. Whenever a private covenant, contract, commitment, agreement, or other similar private land use restriction imposes a greater restriction or a higher standard than is required by a provision of this UDO, the more restrictive provision shall apply.
- ii. This section shall not be interpreted to mean that the City is obligated to enforce the provisions of private covenants, contracts, commitments, agreements, or other similar restrictions; rather, the City shall make an effort to respect such agreements, and this UDO shall not have the effect of abrogating or annulling any such private restriction.
- iii. Where this UDO imposes a greater restriction or a higher standard than is required by a private covenant, contract, commitment, agreement, or other similar private land use restriction, the provisions of this UDO shall govern.

(3) Text to Govern

In case of any difference of meaning or implication between the text of this UDO and any caption, illustration, figure, or illustrative table, the text shall control.

(4) Illustrations

All illustrations in this UDO are intended to help the reader understand terminology and concepts used in this UDO, unless otherwise indicated. Illustrations are not drawn to scale and are not to be interpreted as examples of character or design that must be matched.

(5) Time Frames

Any time frames stated within this UDO shall be calculated to include weekdays, weekends, and holidays, unless stated otherwise. If a time frame ends on a Saturday, Sunday, or holiday on which the city offices are closed, the time frame will be extended to the end of the next business day unless specifically stated otherwise within this UDO.

(6) Delegation of Authority

If a provision in this UDO requires the Planning and Transportation Director or other city official to perform an act or duty, that provision shall also include designated subordinates unless specified otherwise.

(7) Fractions

Where application of a numerical standard results in a fraction, the fraction shall be rounded as follows:

- (A) Where the standard is a minimum requirement, the fraction shall be rounded up to the nearest whole number; and

- (B) Where the standard is a maximum allowed or permitted under this UDO, the fraction shall be rounded down to the nearest whole number.

(8) Rules of Word Usage

The following rules of word usage apply to the text of this UDO:

- (A) The particular shall control the general.
- (B) The words "shall" and "must" are always mandatory and not discretionary. The words "may" and "should" are permissive.
- (C) Unless the context clearly indicates otherwise, words used in a specific tense (past, present or future) shall be construed to include all tenses; words used in the singular number shall include the plural, and the plural the singular; and, use of gender-specific pronouns shall be interpreted so as not to be limited to a particular gender.
- (D) A "building" or "structure" includes any part thereof unless the context clearly indicates otherwise.
- (E) Unless the context clearly indicates the contrary, where a regulation involves two or more items, conditions, provisions, or events connected by the conjunction "and," "or," or "either...or," the conjunction shall be interpreted as follows:
 - i. "And" indicates that all the connected items, conditions, provisions, or events shall apply.
 - ii. "Or" indicates that the connected items, conditions, provisions, or events may apply singly or in any combination.
 - iii. "Either...or" indicates that the connected items, conditions, provision, or events shall apply singly but not in combination.
 - iv. The word "includes" shall not limit a term to the specified examples but is intended to extend its meaning to all other instances or circumstances of like kind or character.
- (F) Terms not defined herein shall have the meanings customarily assigned to them in common, ordinary usage, except that legal or technical terms shall be interpreted in their legal or technical sense.

(9) Material Incorporated by Reference

As required per Indiana Code 36-1-5-4, two copies of any material incorporated into the Unified Development Ordinance by reference are on file in the City Clerk's office for public inspection.

20.01.040 Transition from Prior Regulations

(a) General Transition Rules

In determining the applicability of this UDO with respect to land, uses, buildings, structures, permits, approvals, and petitions for permits or approvals, existing immediately before the effective date hereof, the following rules shall apply.

(1) Uses Rendered Conditional Use

Each use that exists on 04/18/2020 that is required by this UDO to obtain conditional use approval, but that was a permitted use prior to 04/18/2020 is deemed to have a conditional use approval to:

- (A) Continue operation in structures and on land areas where the operation was conducted before 04/18/2020; and
- (B) Expand operations without the need to obtain a Conditional Use Approval, provided that the expansion complies with Subsection 20.03.030 (Use-Specific Standards) and other requirements of this UDO.

(2) Uses Rendered Nonconforming

When a use lawfully existed as a permitted use on the effective date of the UDO, or any amendment thereto, no longer classifies such use as a permitted use in the zoning district in which it is located, such use shall be deemed a lawful nonconforming use and shall be subject to the provisions of Section 20.06.090 (Nonconformities).

(3) Buildings, Structures, and Lots Rendered Nonconforming

Where any building, structure or lot lawfully existing on the effective date of the UDO does not meet all development standards set forth in this UDO, or any amendment thereto, such building, structure, or lot shall be deemed lawful nonconforming and shall be subject to the provisions of Section 20.06.090 (Nonconformities).

(4) Previously Granted Variances

All variances granted prior to the effective date of the UDO shall remain in full force and effect subject to the expiration provision in effect at the time the variance was granted and subject to any specific conditions or provisions relating to expiration that are imposed upon the particular variance approval by the approving entity. However, such variance shall apply only to the development standards variance granted. Provided, however, in the event of a conflict between this section and Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete Petition), the provisions of Section 20.01.040(b) shall govern.

(5) Previously Granted Conditional Use Permits

All conditional use permits granted prior to the effective date of the UDO shall remain in full force and effect subject to the expiration provision in effect at the time the conditional use was granted and subject to any specific conditions or provisions relating to expiration that are imposed upon the particular conditional use approval by the approving entity. Expansion or change in use shall require compliance with this UDO. Provided, however, in the event of a conflict between this section and Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete Petition), the provisions of Section 20.01.040(b) shall govern.

(6) Previously Granted Special Exceptions

All special exceptions granted prior to the effective date of the UDO shall remain in full force and effect subject to the expiration provision in effect at the time the special exception was established, and subject to any specific conditions or provisions relating to expiration that are imposed upon the particular special exception approval by the approving entity. Expansion or change in use shall require compliance with this UDO. Provided, however, in the event of a conflict between this section and Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete Petition), the provisions of Section 20.01.040(b) shall govern.

(7) Previously Granted Certificates of Appropriateness for Properties Designated Historic

All certificates of appropriateness granted by the Historic Preservation Commission prior to the effective date of the UDO shall remain in full force and effect pursuant to the terms of approval set forth in the Historic Preservation Commission action, unless such certificates of appropriateness have expired pursuant to their terms or pursuant to applicable prior law.

(8) Previously Approved Planned Unit Developments

An outline or preliminary plan approved under a previous ordinance and retained as a Planned Unit Development on the zoning map adopted as part of this UDO shall constitute an approved preliminary plan subject to the expiration provisions in effect at the time of approval. A development or final plan approved under a previous ordinance where the Planned Unit Development is retained on the zoning map adopted as part of this UDO shall constitute an approved final plan, subject to the expiration provisions in effect at the time of approval. Where an outline or preliminary plan has been approved, but a development or final plan has not been approved, or has been approved but has expired, prior to the effective date of this UDO, the final plan shall require Plan Commission review, unless the Plan Commission, at a public hearing, determines that the staff should review the final plan; moreover, such final plans shall be subject to the development standards of this UDO, except to the extent that different development standards were expressly set forth in the approved outline or preliminary plan. Provided, however, in the event of a conflict between this section and Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete Petition), the provisions of Section 20.01.040(b) shall govern.

(9) Previously Approved Site Plans

- (A) A site plan approved prior to the effective date of this UDO shall remain in full force and effect, such that building and occupancy permits may be issued in accordance with the approved site plan, subject to any conditions placed upon such approval and subject to the expiration provisions in effect at the time of approval. However, any change from the approved site plan, including but not limited to, changes in use or development standards, shall be subject to the provisions of this UDO. In the event of a conflict between this section and Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete Petition), the provisions of Section 20.01.040(b) shall govern.
- (B) Subsection (A) above shall apply only to fully detailed site plans and shall not apply to any portion of a parcel or development not fully detailed and expressly approved, even if shown on such plans.

(10) Previously Approved Subdivisions

Except as otherwise provided by Section 20.01.040(b), primary and secondary plats approved prior to the effective date of this UDO shall be governed by this section. A primary plat and/or secondary plat approved prior to the effective date of this UDO, whether or not yet recorded, shall remain in full force and effect, subject to applicable expiration provisions in effect at the time of approval. Secondary plats may be recorded as approved; primary plats shall be entitled to approval of a secondary plat consistent with the primary plat approval; lots in such subdivisions shall be established in their platted size and configuration as lots of record. Such lots shall be subject to use and development standards of this UDO, other than minimum lot dimensions.

(b) Effect of Change in the Law after Filing of Complete Petition

- (1) For any petition filed with the city prior to the effective date of this UDO for any permit or approval listed in Section 20.01.040(b)(3), the effect of any change in the applicable law after submittal of such petition but prior to the grant or denial of the permit or approval sought shall be governed by the transition rules of the prior zoning ordinance that was in effect on the date of petition submittal.
- (2) Whenever a complete petition is filed with the city on or after the effective date of this UDO for any of the permits or approvals listed in Section 20.01.040(b)(3), the grant or denial of such permit or approval, and the grant or denial of any secondary, additional or related permit or approval required by the city with respect to the general subject matter of the first complete petition, shall be governed by the statutes, ordinances, rules, development standards, and regulations applicable to the property in question ("Requirements") that were in effect at the time of the first complete petition, for the time periods listed in Section 20.01.040(b)(4), notwithstanding any change in such requirements that occurs after such first petition but prior to the grant or denial of such permit or approval, except as otherwise provided herein.
- (3) The permits and approvals covered by this section are:
 - (A) Section 20.06.050(a) (Site Plan Review);
 - (B) Section 20.06.050(b) (Conditional Use Permit);
 - (C) Section 20.06.060(b) (Primary Plat);
 - (D) Section 20.06.060(c) (Secondary Plat);
 - (E) Section 20.06.050(e) (~~Site Development Permit~~Grading Permit);
 - (F) Section 20.06.050(f) (Certificate of Zoning Compliance);
 - (G) Section 20.06.070(c) (Rezoning to Planned Unit Development).
- (4) The requirements in effect at the time of the first complete petition submittal for a permit or approval described in Section 20.01.040(b)(2) shall continue to govern such first complete petition and any secondary, additional or related permits described in that subsection for a period of at least three years from the date of the first complete petition. If no construction or other activity to which the permit or approval relates is commenced within that three-year period, then after that period the renewal of any expired permit, and the grant or denial of any new petition for any secondary, additional or related permit, shall be governed by then current regulations if the Planning and Transportation Director, based upon advice from the City Legal Department, determines that such action is lawful and does not deprive the owner or petitioner of any vested right. Moreover, if construction or other activity to which the permit or approval relates is not completed within 10 years of the date upon which such construction or other activity commenced, then after that period the renewal of any expired permit, and the grant or denial of any new petition for any secondary, additional or related permit, shall be governed by then current regulations if the Planning and Transportation Director, based upon advice from the City Legal Department, determines that such action is lawful and does not deprive the owner or petitioner of any vested right.
- (5) Where a permit or approval is rendered pursuant to this section, any construction, use or other activity authorized by such permit or approval shall be treated as lawfully nonconforming to the extent such activity does not conform to the current requirements of this UDO and shall be subject to the provisions of Section 20.06.090 (Nonconformities).

- (6) For purposes of this Section 20.01.040(b), amendment or modification to a petition for a permit or approval shall not constitute a new petition unless the changes are such that the proposed activity is substantially greater in scope, complexity or process of review, or otherwise significantly increases the land use issues and impacts that are presented, compared to the original petition.

(c) Petitions for Variance or Rezoning (Map Change Other Than PUD)

Any petition for variance or zoning map change (other than for a PUD designation) for which a full and complete petition was properly filed prior to the effective date of this UDO shall be processed pursuant to the terms and conditions of the zoning ordinance that was in effect at the time of filing, provided that the approval is still required under the terms of this UDO. The property and the proposal for which a variance or map change was sought will be subject to all regulations of this UDO, unless otherwise required by these transition rules or bylaw.

20.01.050 Comprehensive Plan

(a) Purpose

The purpose of the Comprehensive Plan is to provide jurisdiction-wide policies to guide the major decisions of the City and other governmental entities within the City, including zoning decisions and other land use related decisions. The Comprehensive Plan may include special focus components such as park, school, and public utility plans.

(b) Comprehensive Plan Incorporated

The most recently adopted Comprehensive Plan and any related plan(s) incorporated as part of or in support of the Comprehensive Plan, are hereby incorporated into and made a part of this UDO. Two copies of the Comprehensive Plan are on file and available for public inspection in the Office of the City Clerk.

(c) Transportation Plan

The Transportation Plan is a component of the Comprehensive Plan that:

- (1) Establishes functional classification and street typologies of public rights-of-way;
- (2) Determines locations and cross-sections for new, extended, or redesigned existing public rights-of-way;
- (3) Provides guidance for development review including but not limited to public streets, sidewalks, bicycle facilities, on-street parking, public transit facilities, and other transportation facilities; and
- (4) Establishes a conceptual transportation network for the purpose of right-of-way dedication and construction standards.

(d) Relationship between Comprehensive Plan and this UDO

- (1) The Comprehensive Plan is the principal land use policy document for the City. This UDO is the primary implementing document of the Comprehensive Plan. Together, these documents establish guidelines and regulate land use within the City.
- (2) When considering amendments to the UDO text and/or maps, the Plan Commission and Common Council shall pay reasonable regard to the recommendations of the Comprehensive Plan and any subsequent amendments.

(e) Relationship of Subarea Plans to the Comprehensive Plan

Another type of policy plan which guides the decisions of the city is the subarea plan. Subarea plans are amendments to the Comprehensive Plan, designed to more specifically address areas which are unique within the city and require a more deliberate approach to their proper development.

Chapter 20.02: Zoning Districts

20.02.010 Zoning Districts Established

(a) Summary Table of Zoning Districts

The following zoning districts are established as shown in Table 02-1. All development shall comply with all other applicable regulations in this UDO including, without limitation, Chapter 20.03: (Use Regulations) and Chapter 20.04: (Development Standards & Incentives).

Table 02-1: Summary Table of Zoning Districts

Prior District Name	District Name
Residential	
RE – Residential Estate	R1 - Residential Large Lot [New]
RS - Residential Single-Family	R2 - Residential Medium Lot
RC - Residential Core	R3 - Residential Small Lot
---	R4 - Residential Urban [New]
RM - Residential Multifamily	RM - Residential Multifamily
RH - Residential High-Density Multifamily	RH - Residential High-Density Multifamily
MH - Manufactured/Mobile Home Park	RMH - Manufactured/Mobile Home Park
Mixed-Use	
---	MS - Mixed-Use Student Housing
CL - Commercial Limited	MN - Mixed-Use Neighborhood-Scale
CG - Commercial General	MM - Mixed-Use Medium-Scale
CA - Commercial Arterial	MC - Mixed-Use Corridor
BP - Business Park	ME - Mixed-Use Employment
IN - Institutional	MI - Mixed-Use Institutional
CD - Commercial Downtown	MD - Mixed-Use Downtown
MD - Medical	MH - Mixed-Use Healthcare
Nonresidential	
IG - Industrial General	EM - Employment
QY - Quarry	EM - Employment
---	PO – Parks and Open Space [New]
Planned Development District	
PUD - Planned Unit Development	PUD – Planned Unit Development
Overlay Zoning Districts	
CSO - Courthouse Square	DCO - Downtown Character Overlay
DCO - Downtown Core Overlay	
UVO - University Village Overlay	
DEO - Downtown Edges Overlay	
DGO - Downtown Gateway Overlay	
STPO - Showers Technology Park Overlay	TRO – Transform Redevelopment Overlay [New]

(b) Base Zoning Districts

- (1) Sections 0 through 20.02.030 use a common structure to describe the purpose for each base zoning district, an illustrative image, a summary of dimensional standards, and any district-specific standards.
- (2) Each of the Residential, Mixed-Use, and Nonresidential base zoning districts listed in Table 2-1 authorizes the land uses listed for that base district in Chapter 20.03: (Use Regulations), subject to the development standards applicable to that type of development in Chapter 20.04: (Development Standards & Incentives), the subdivision standards in Chapter 20.05: Subdivision Standards and the requirements for development approval in Chapter 20.06: (Administration & Procedures).
- (3) The materials shown in Sections 0 through 20.02.030 are summaries of basic provisions applicable to the base zoning districts. In the event of an inconsistency between the provisions of Sections 0 through 20.02.030 and the provisions in Chapters 20.03, 20.04, 20.05, 20.06, or 20.07, the provisions of Chapters 20.03, 20.04, 20.05, 20.06, or 20.07, as applicable, shall apply.
- (4) On the Official Zoning Map a standard zoning district shall be labeled using the two- or three-character abbreviation shown in Table 2-1.

(c) Planned Unit Development Districts

- (1) Planned Unit Development districts are separate base zoning districts negotiated with the Planning and Transportation Department and the Plan Commission and approved by City Council pursuant to those procedures shown in Chapter 20.06:.
- (2) On the Official Zoning Map an approved Planned Unit Development zoning district shall be labeled "PUD."

(d) Overlay Zoning Districts

- (1) The overlay zoning districts shown in Table 2-1 supplement, but do not replace, the base zoning district regulations in the areas where the overlay zoning districts are applied.
- (2) An overlay zoning district may add restrictions on the use of property in the underlying base zoning district or may remove restrictions on the use of property in the underlying zoning district, or both.
- (3) In the event of an inconsistency between the overlay zoning district regulations and the base zoning district regulations, the overlay zoning district regulations shall apply.
- (4) The Official Zoning Map designates where overlay zoning districts apply.

(e) Official Zoning Map Revisions

- (1) Only persons authorized by the Planning and Transportation Director may revise the Official Zoning Map when amendments are passed. Such revisions shall be made as soon as possible after the effective date of the amendment.
- (2) During the time it takes for the formal electronic version of the Official Zoning Map to be reprinted for public display, hand-drawn lines and text on an authorized printed copy of the previous Official Zoning Map will be appropriate to note zoning district changes. Revisions may be made at any time to correct drafting or clerical errors and omissions in the Official Zoning Map but shall not have the effect of amending the Official Zoning Map.

(f) Standards

Zoning district boundaries on the Official Zoning Map shall be interpreted as follows:

- (1) Zoning district boundaries shown within or parallel to the lines of roads, easements, and transportation rights-of-way shall be deemed to follow the centerline of the affected road, easement, or right-of-way.
- (2) Zoning district boundaries indicated as following or being parallel to section or fractional sectional lines, lot lines, or city corporate boundary lines shall be construed as following or paralleling such lines.
- (3) Zoning district boundaries indicated as approximately following the centerline of streams, rivers, or other bodies of water shall be construed to follow such centerlines.
- (4) Where a zoning district boundary divides a lot or parcel, or follows or crosses property that is not subdivided, the location of such boundary, unless indicated by legal description with distance and bearing or other dimension, shall be determined by the scale of the Official Zoning Map by the Planning and Transportation Director.
- (5) Whenever any street, alley, public right-of-way, railroad right-of-way, waterway, or other similar area is vacated by proper authority, the zoning districts adjoining each side of vacated areas shall be extended automatically to the center of the vacated area. All areas included in the vacation shall after the vacation be subject to all regulations of the extended zoning districts. In the event of a partial vacation, the adjoining zoning district, or zoning district nearest the portion vacated, shall be extended automatically to include all of the vacated area.
- (6) Any disputes as to the exact zoning district boundaries shall be determined by the Planning and Transportation Director. The Planning and Transportation Director may refuse to make a determination when he or she cannot definitely determine the location of a zoning district boundary. In such cases, the Planning and Transportation Director shall refer the interpretation to the Plan Commission. The Plan Commission may then interpret the location of the zoning district boundary with reference to the scale of the Official Zoning Map and the purposes set forth in all relevant provisions of the UDO. All zoning district boundary determinations made pursuant to this section may be appealed to the Board of Zoning Appeals.

(g) Overlay District Applicability

The overlay district boundaries on the Official Zoning Map shall be interpreted as follows:

- (1) An overlay district shall be noted on the Official Zoning Map with a hatch or textured pattern and be noted as such on the map legend.
- (2) A lot that is fully covered (bounded) by an overlay district shall be interpreted to be subject to the overlay district standards found in Section 20.02.050 (Overlay Districts).
- (3) A lot that is partially covered (transected) by an overlay district shall be interpreted to be subject to the overlay district standards to the extent the lot area is covered by the overlay district.

Residential Zoning Districts

(h) R1: Residential Large Lot

(1) Purpose

The R1 district is intended to accommodate single family residential development on relatively large lots plus a limited number of related civic uses while ensuring compatibility with surrounding patterns of development. This district may also serve as a transition between estate development and medium-lot development.



Figure 1: Illustrative Scale and Character

(2) **Dimensional Standards**

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-2: R1 District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	20,000 square feet (0.459 acres) [1]
B	Lot width	100 feet [1]
Building Setbacks (Minimum)		
C	Front	15 feet
D	Attached front-loading garage or carport	25 feet [2]
E	Side	First floor: 8 feet [1] Each story above the ground floor: 10 feet [1]
F	Rear	25 feet [1]
Other Standards		
	Impervious surface coverage (maximum)	30%
G	Primary structure height (maximum)	40 feet
	Accessory structure height (maximum)	20 feet

Notes:

- [1] See Section 20.04.110 (Incentives) for alternative standards.
 [2] Or equal to the setback of the primary structure, whichever is greater.

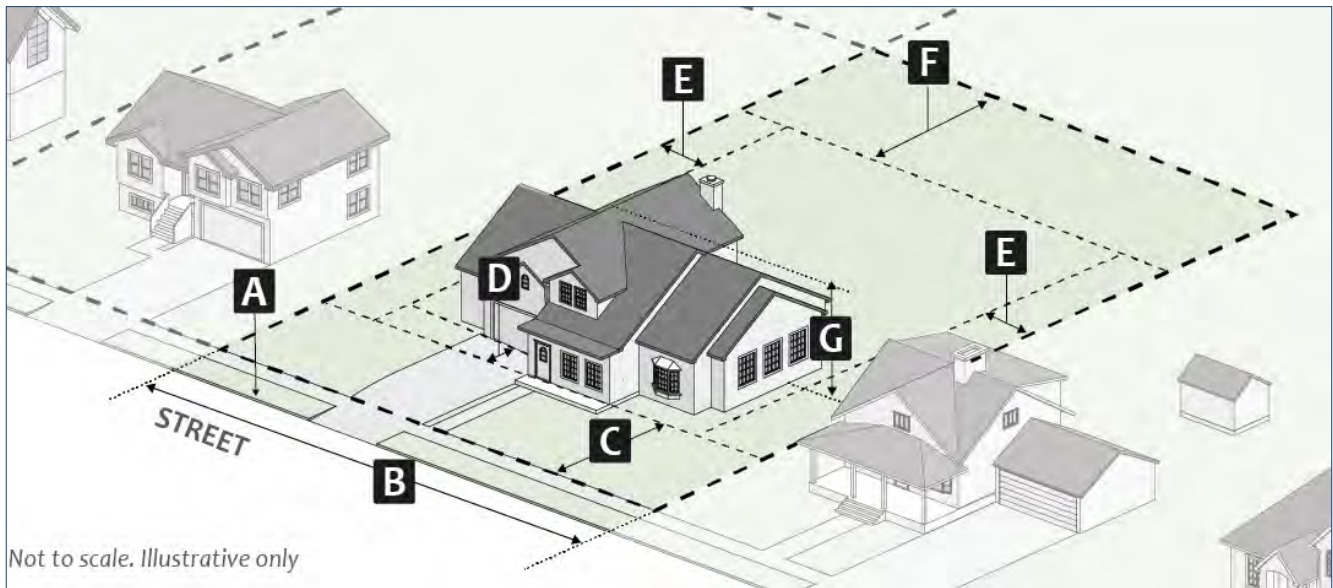


Figure 2: R1 District Dimensional Standards

(i) R2: Residential Medium Lot

(1) Purpose

The R2 district is intended to accommodate residential development on medium-sized lots in single-family neighborhoods, plus a limited number of related civic uses, while ensuring compatibility with surrounding patterns of development. This district may be used as a transition between large-lot residential development and small-lot residential development.



Figure 3: Illustrative Scale and Character

(2) Dimensional Standards

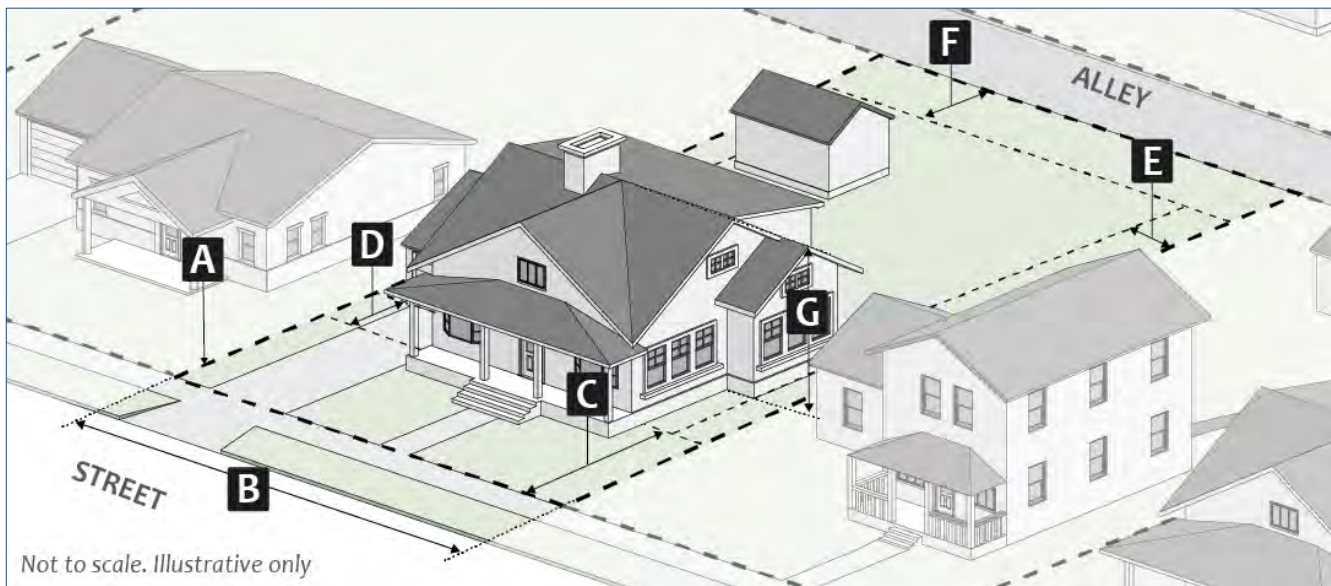
The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-3: R2 District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	7,200 square feet (0.165 acres)[1]
B	Lot width	60 feet [1]
Building Setbacks (Minimum)		
C	Front	15 feet or the median front setback of abutting residential structures, whichever is less.
D	Attached front-loading garage or carport	25 feet [2]
E	Side	First Floor: 8 feet [3] Each story above the ground floor: 10 feet [1] [3]
F	Rear	25 feet [1]
Other Standards		
	Impervious surface coverage (maximum)	40%
G	Primary structure height (maximum)	40 feet
	Accessory structure height (maximum)	20 feet

Notes:

- [1] See Section 20.04.110 (Incentives) for alternative standards.
- [2] Or equal to the setback of the primary structure, whichever is greater.
- [3] Legally established lots of record that are less than the minimum lot width may reduce the required setback up to 2 feet.

**Figure 4: R2 District Dimensional Standards**

(j) R3: Residential Small Lot

(1) Purpose

The R3 district is intended to protect and enhance established residential neighborhoods by increasing the viability of owner-occupied and affordable dwelling units through small-lot subdivisions, accessory dwelling units, and property improvements compatible with surrounding development patterns. The conversion of existing housing stock to more intense land uses is discouraged. This district may be used as a transition between medium-lot residential development and neighborhood-scale residential, commercial, and institutional development.



Figure 5: Illustrative Scale and Character

(2) Dimensional Standards

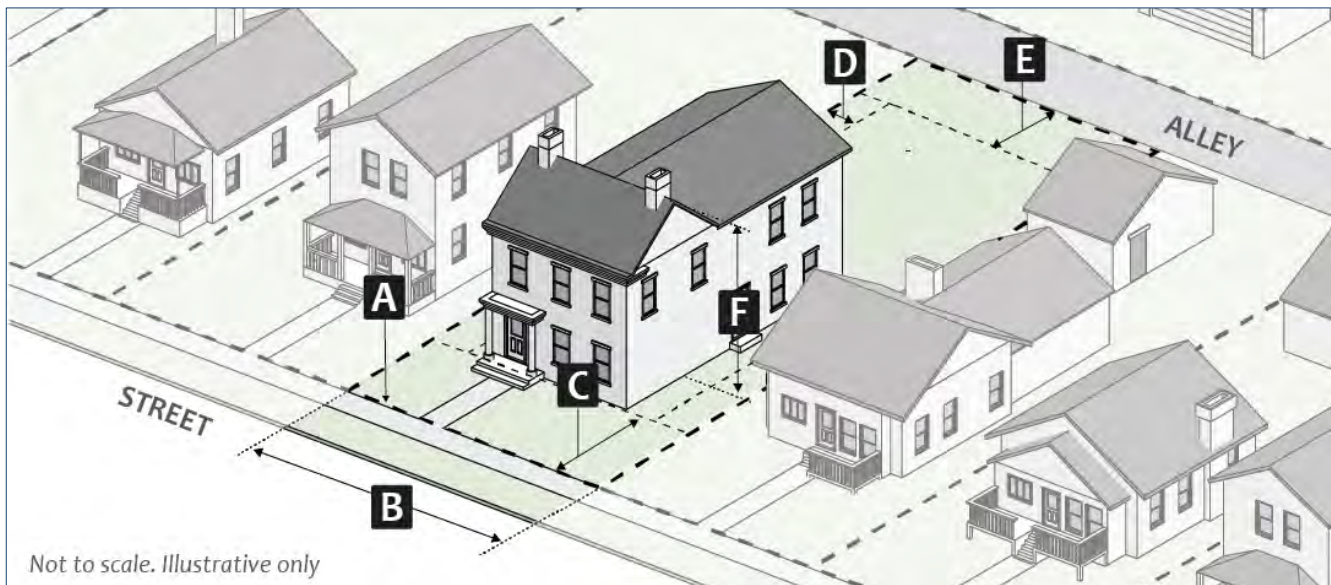
The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-4: R3 District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	5,000 square feet (0.115 acres) [1]
B	Lot width	50 feet [1]
Building Setbacks (Minimum)		
C	Front build-to line	15 feet or the median front setback of abutting residential structures, whichever is less.
	Attached front-loading garage or carport	10 feet behind the primary structure's front building wall
D	Side	First floor: 6 feet [2] Each story above the ground floor: 10 feet [1] [2]
E	Rear	25 feet [1]
Other Standards		
	Impervious surface coverage (maximum)	45%
F	Primary structure height (maximum)	35 feet
	Accessory structure height (maximum)	20 feet

Notes:

- [1] See Section 20.04.110 (Incentives) for alternative standards.
 [2] Legally established lots of record that are less than the minimum lot width may reduce the required setback up to 2 feet.

**Figure 6: R3 Dimensional Standards**

(k) R4: Residential Urban

(1) Purpose

The R4 district is intended to accommodate residential uses on small urban scale lots that offer a diverse mix of housing opportunities consistent with the Comprehensive Plan and other adopted plans. Properties in the R4 district typically have access to many public services that are accessible to pedestrians, cyclists, and vehicles. This district may be used as a transition between small-lot residential development and urban-scale residential, commercial, and institutional development.



Figure 7: Illustrative Scale and Character

(2) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-5: R4 District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	4,000 square feet (0.092 acres)
B	Lot width	35 feet
Building Setbacks (Minimum)		
C	Front	15 feet or the median front setback of abutting residential structures, whichever is less.
	Attached front-loading garage or carport	10 feet behind the primary structure's front building wall
D	Side	5 feet
E	Rear	25 feet
Other Standards		
	Impervious surface coverage (maximum)	50%
F	Primary structure height (maximum)	40 feet
	Accessory structure height (maximum)	20 feet

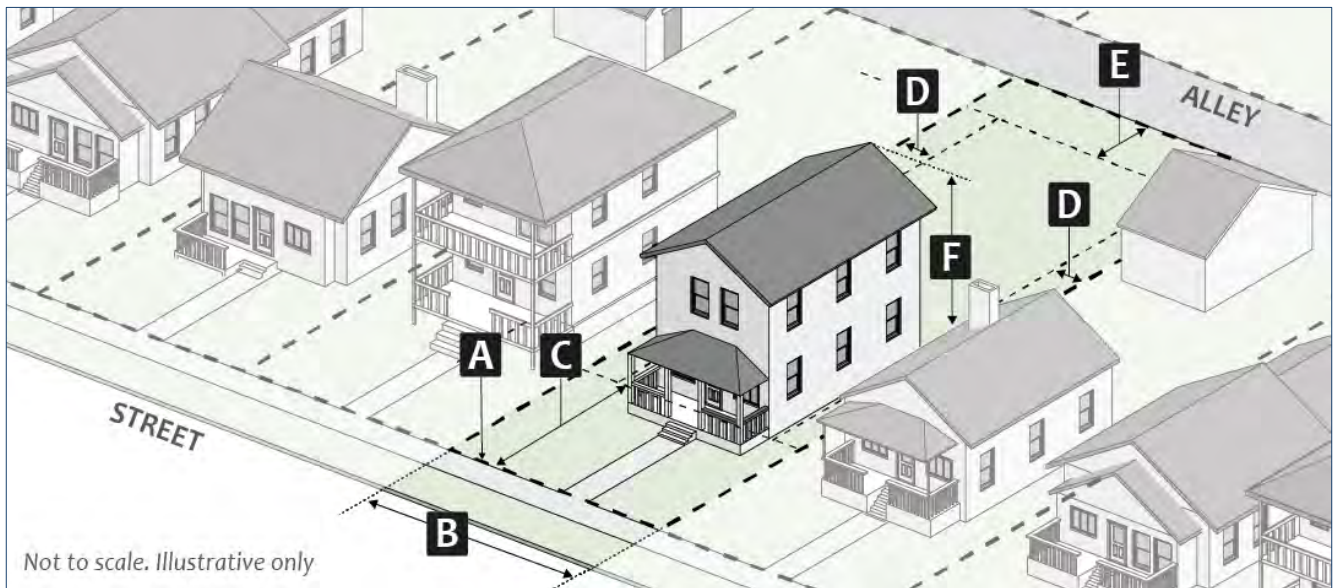


Figure 8: R4 Dimensional Standards

(I) RM: Residential Multifamily

(1) Purpose

The RM district is intended to accommodate medium scale residential development, plus related civic and residential-supportive uses, at a scale that is larger than neighborhood-scale but smaller than urban-scale to ensure an adequate mix of housing types throughout the community. This district may be used as a transition between urban neighborhoods and more intense residential, commercial, and institutional development.



Figure 9: Illustrative Scale and Character

(2) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-6: RM District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		Multifamily Dwelling	Single-Family, Duplex, Triplex, or Fourplex Dwelling[4]
A	Lot area	5,000 square feet (0.115 acres)	R4 district standards apply
B	Lot width	50 feet	
Building Setbacks (Minimum)			
C	Front	15 feet	R4 district standards apply
	Attached front-loading garage or carport	25 feet [1]	
D	Side	10 feet [2]	
E	Rear	[2] 15 feet	
Other Standards			
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall	R4 district standards apply
	Impervious surface coverage (maximum)	60%	
	Landscape area (minimum)	40%	
F	Primary structure height (maximum)	3 stories, not to exceed 40 feet [2] [3]	
	Accessory structure height (maximum)	20 feet	

Notes:

- [1] Or equal to the setback of the primary structure, whichever is greater.
- [2] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [3] See Section 20.04.110 (Incentives) for alternative standards.
- [4] The front building setback shall be determined by the standards of the base zoning district.

**Figure 10: RM Dimensional Standards**

(m) RH: Residential High-Density Multifamily

(1) Purpose

The RH district is intended to accommodate high-intensity multifamily residential development, plus related civic and residential-supportive uses, to provide an adequate mix of housing types throughout the community. This district can also serve as a transition between other lower-density districts and the downtown or university areas.



Figure 11: Illustrative Scale and Character

(2) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020(Dimensional Standards) also apply.

Table 02-7: RH District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		Multifamily Dwelling	Single-Family, Duplex, Triplex, or Fourplex Dwelling
A	Lot area	5,000 square feet (0.115 acres)	R4 district standards apply
B	Lot width	50 feet	
Building Setbacks (Minimum)			
C	Front	15 feet	R4 district standards apply
	Attached front-loading garage or carport	25 feet [1]	
D	Side	10 feet [2]	
E	Rear	[2] 15 feet	
Other Standards			
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall	R4 district standards apply
	Impervious surface coverage (maximum)	65%	
	Landscape area (minimum)	35%	
F	Primary structure height (maximum)	5 stories, not to exceed 63 feet [2] [3]	
	Accessory structure height (maximum)	20 feet	

Notes:

- [1] Or equal to the setback of the primary structure, whichever is greater.
- [2] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [3] See Section 20.04.110 (Incentives) for alternative standards.

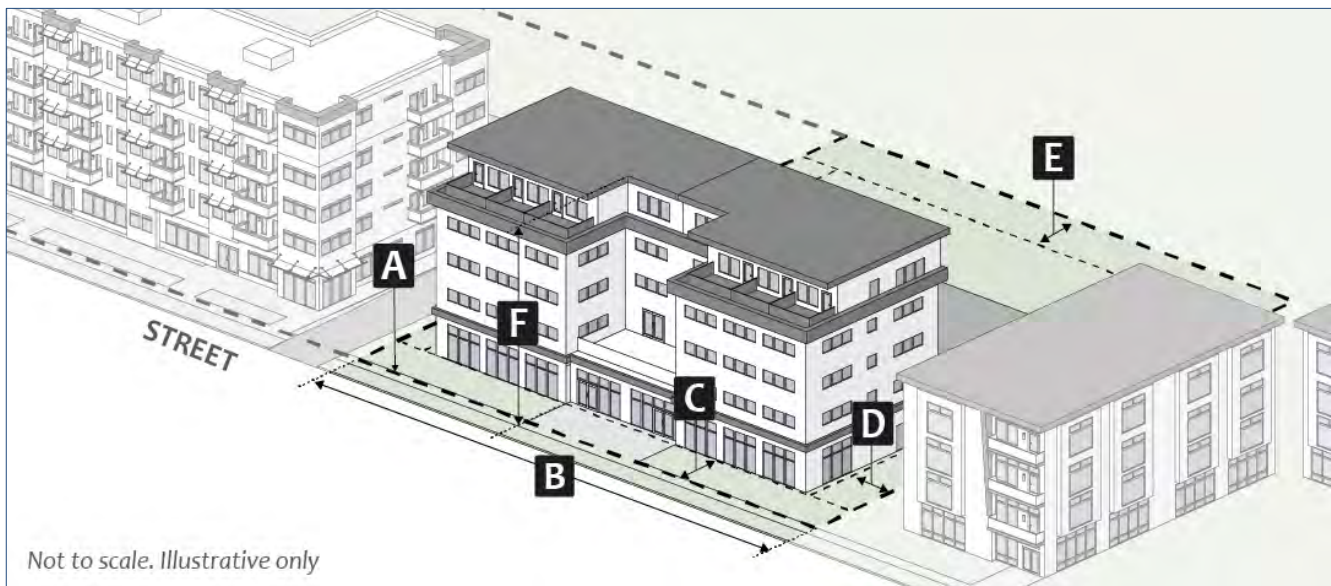


Figure 12: RH Dimensional Standards

(n) RMH: Manufactured/Mobile Home Park

(1) Purpose

The RMH district is intended to accommodate for manufactured housing developments with shared amenities in order to promote and preserve housing opportunities.



Figure 13: Illustrative Scale and Character

(2) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-8: RMH District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		Entire Development	Dwelling Site	
A	Lot area	43,560 square feet (1.0 acres)	3,000 square feet	
B	Lot width	200 feet	C	40 feet
Setbacks for Development as A Whole (Minimum)				
D	Front	25 feet	E	10 feet
F	Side	20 feet	Primary Structure: 7 feet Accessory Structure: 2 feet	
G	Rear	20 feet		
Other Standards				
	Impervious surface coverage (maximum)	None	65%	
	Primary structure height (maximum)	None	H	20 feet
	Accessory structure height (maximum)	None	20 feet	

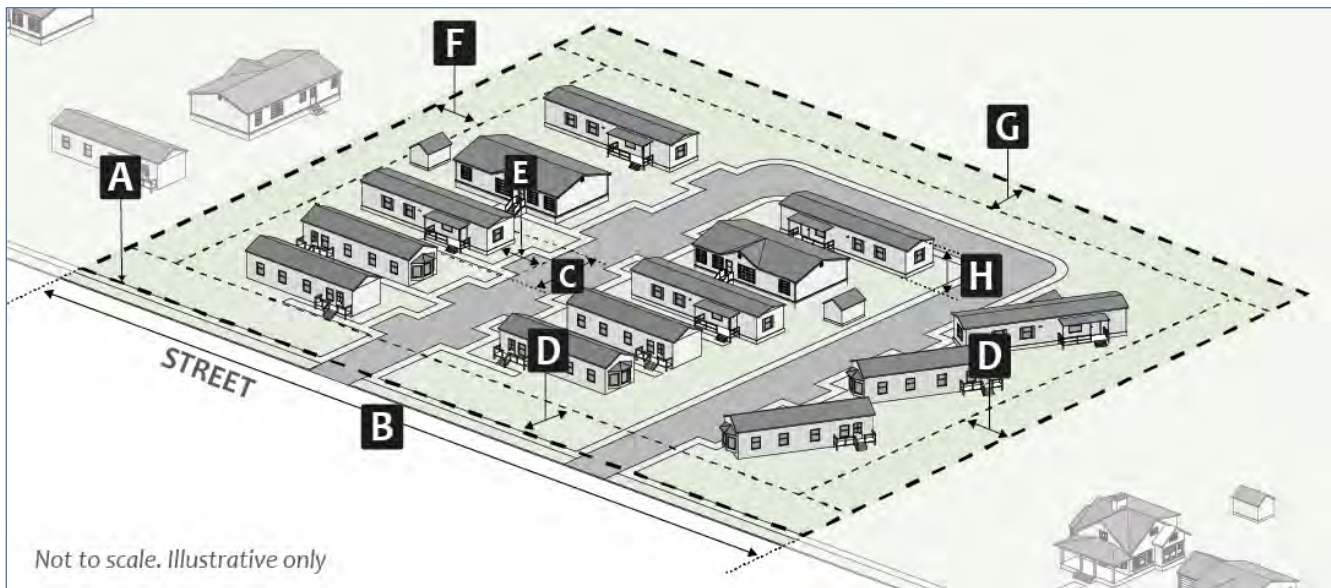


Figure 14: RMH Dimensional Standards

20.02.020 Mixed-Use Zoning Districts

(a) MS: Mixed-Use Student Housing

(1) Purpose

The MS district is intended to accommodate an adequate supply and mix of housing opportunities for students in areas adjacent or within easy walking distance to campus and along nearby commercial corridors and with easy access to campus-serving public transit and to university-provided parking, such as the area located directly west, southwest, and northwest of Memorial Stadium. The district is intended to have a high percentage of student-oriented housing units, including larger developments that might not be permitted in other districts, but not totally exclusive of other types of residential housing units. This district should not be located in close proximity to the MD district but may also provide MS related commercial and retail-supportive uses.



Figure 15: Illustrative Scale and Character

(2) Dimensional Standards

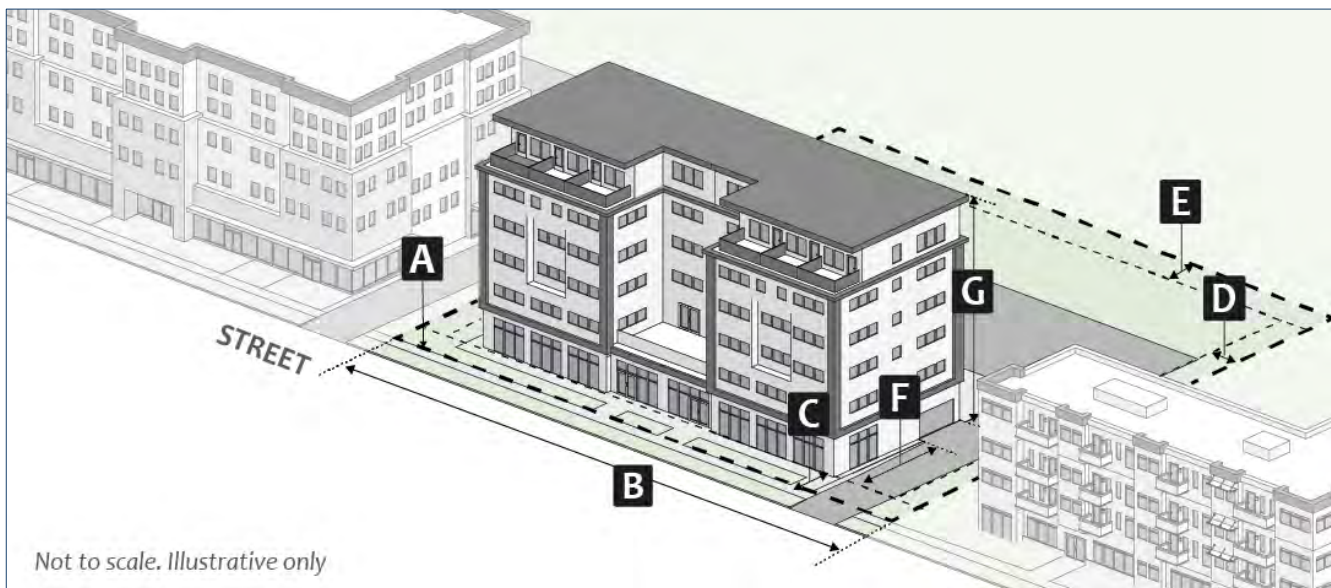
The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-9: MS District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	5,000 square feet (0.115 acres)
B	Lot width	50 feet
Building Setbacks (Minimum)		
C	Front	15 feet
D	Side	15 feet [1]
E	Rear	15 feet [1]
Other Standards		
F	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Impervious surface coverage (maximum)	70%
	Landscape area (minimum)	30%
G	Primary structure height (maximum) [2]	6 stories, not to exceed 75 feet [1] [2]
	Accessory structure height (maximum)	20 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.

**Figure 16: MS Dimensional Standards**

(b) MN: Mixed-Use Neighborhood Scale

(1) Purpose

The MN district is intended to promote a mix of neighborhood-scale residential, commercial, and institutional uses with pedestrian-oriented design and multi-modal transportation availability, in order to promote context sensitive neighborhood-serving development at nodes and corridors near low- and medium-density residential neighborhoods.



Figure 17: Illustrative Scale and Character

(2) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-10: MN District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	5,000 square feet (0.115 acres)
B	Lot width	50 feet
Building Setbacks (Minimum)		
C	Front build-to range	15 to 25 feet
	Front building facade at build-to range (minimum)	70%
D	Side	7 feet [1]
E	Rear	10 feet [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Impervious surface coverage (maximum)	60%
	Landscape area (minimum)	40%
	Area of any individual commercial tenant (maximum)	5,000 square feet gross floor area
F	Primary structure height (maximum)	3 stories, not to exceed 40 feet [1] [2] [3]
	Accessory structure height (maximum)	20 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.

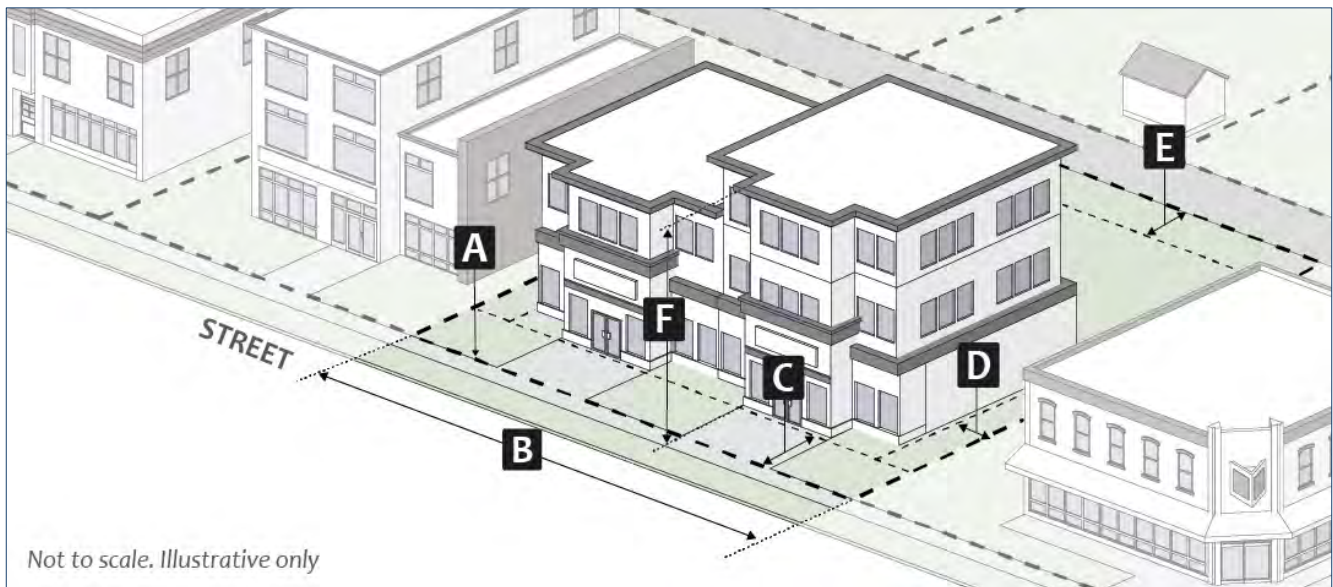


Figure 18: MN Dimensional Standards

(c) MM: Mixed-Use Medium Scale

(1) Purpose

The MM district is intended to accommodate medium-scaled projects with a mix of housing and storefront retail, professional office, civic and/or residential uses at a scale that is larger than neighborhood-scale but smaller than destination commercial uses or high-density residential development.



Figure 19: Illustrative Scale and Character

(2) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-11: MM District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	5,000 square feet (0.115 acres)
B	Lot width	50 feet
Building Setbacks (Minimum)		
C	Front build-to range	15 to 25 feet
	Front building facade at build-to range (minimum)	70%
D	Side	7 feet [1]
E	Rear	7 feet [1]
Other Standards		
F	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Impervious surface coverage (maximum)	60%
	Landscape area (minimum)	40%
G	Primary structure height (maximum)	4 stories, not to exceed 50 feet [1] [2] [3]
	Accessory structure height (maximum)	30 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.

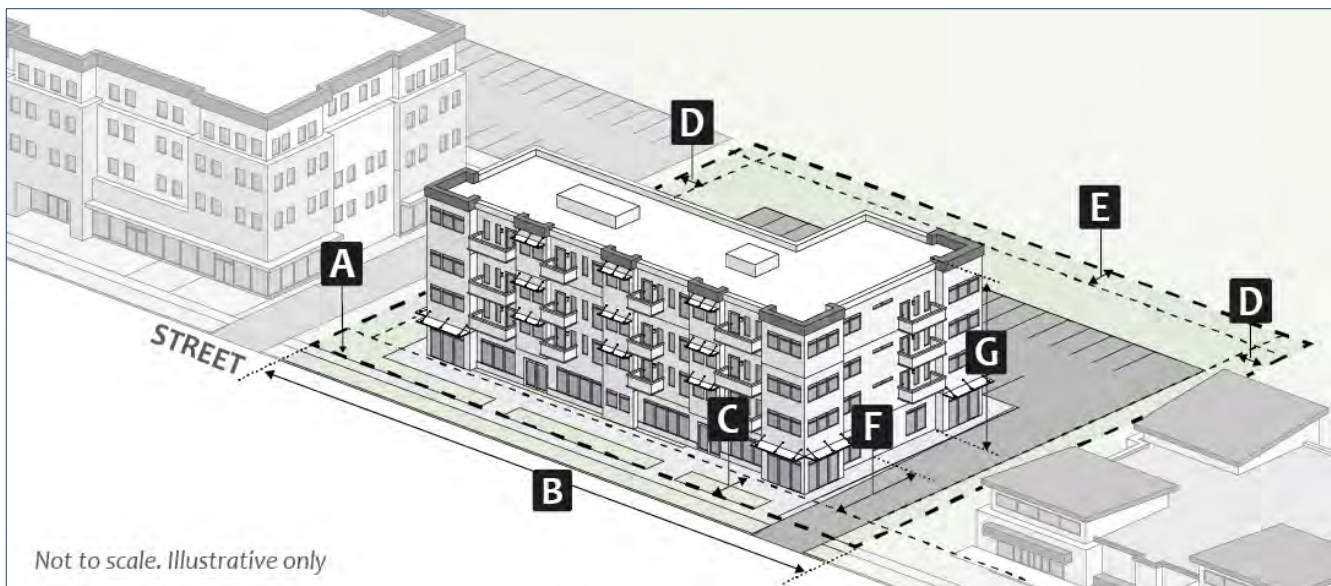


Figure 20: MM Dimensional Standards

(d) MC: Mixed-use Corridor

(1) Purpose

The MC district is intended to accommodate medium-scaled developments with a mix of storefront retail, professional office, and/or residential dwelling units along arterial and collector corridors at a scale larger than the neighborhood-scale uses accommodated by the MN zoning district.



Figure 21: Illustrative Scale and Character

(2) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-12: MC District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	5,000 square feet (0.115 acres)
B	Lot width	50 feet
Building Setbacks (Minimum)		
C	Front	15 feet
D	Side	7 feet [1]
E	Rear	7 feet [1]
Other Standards		
F	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Impervious surface coverage (maximum)	60%
	Landscape area (minimum)	40%
G	Primary structure height (maximum)	4 stories, not to exceed 50 feet [1] [2] [3]
	Accessory structure height (maximum)	30 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.

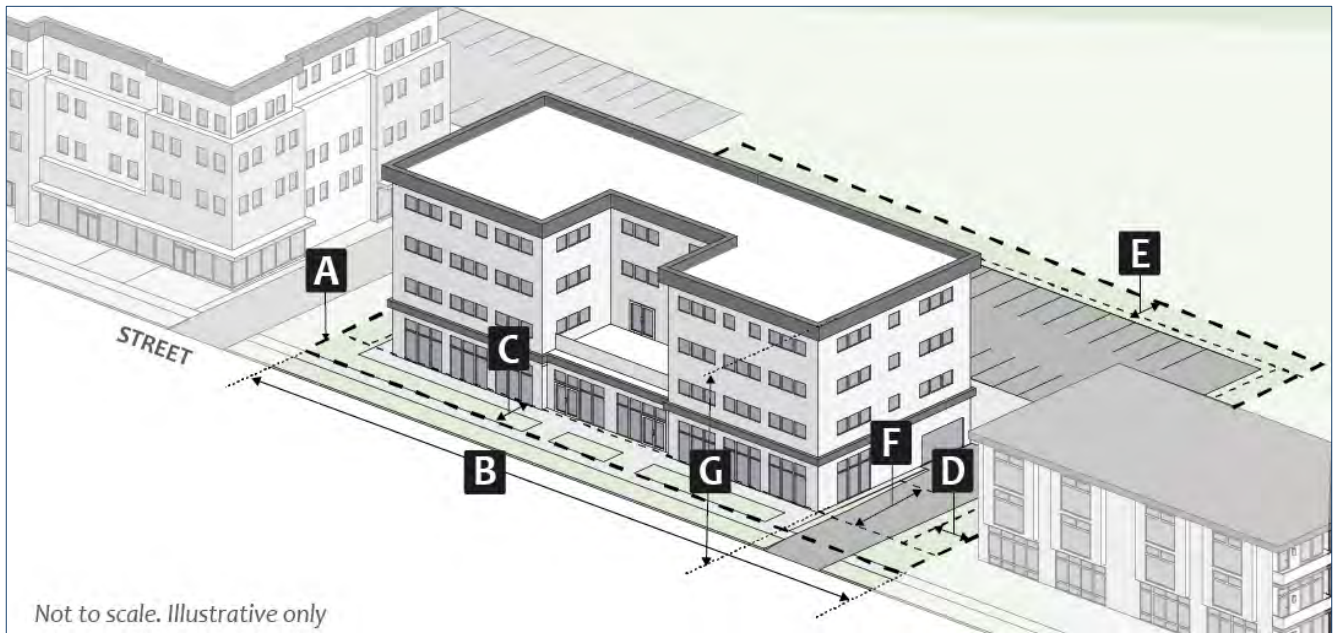


Figure 22: MC Dimensional Standards

(e) ME: Mixed-use Employment

(1) Purpose

The ME district is intended to provide a mixture of office-related uses and medium-scale multifamily residential uses that provide significant employment opportunities for the community and the surrounding region.



Figure 23: Illustrative Scale and Character

(2) Dimensional Standards

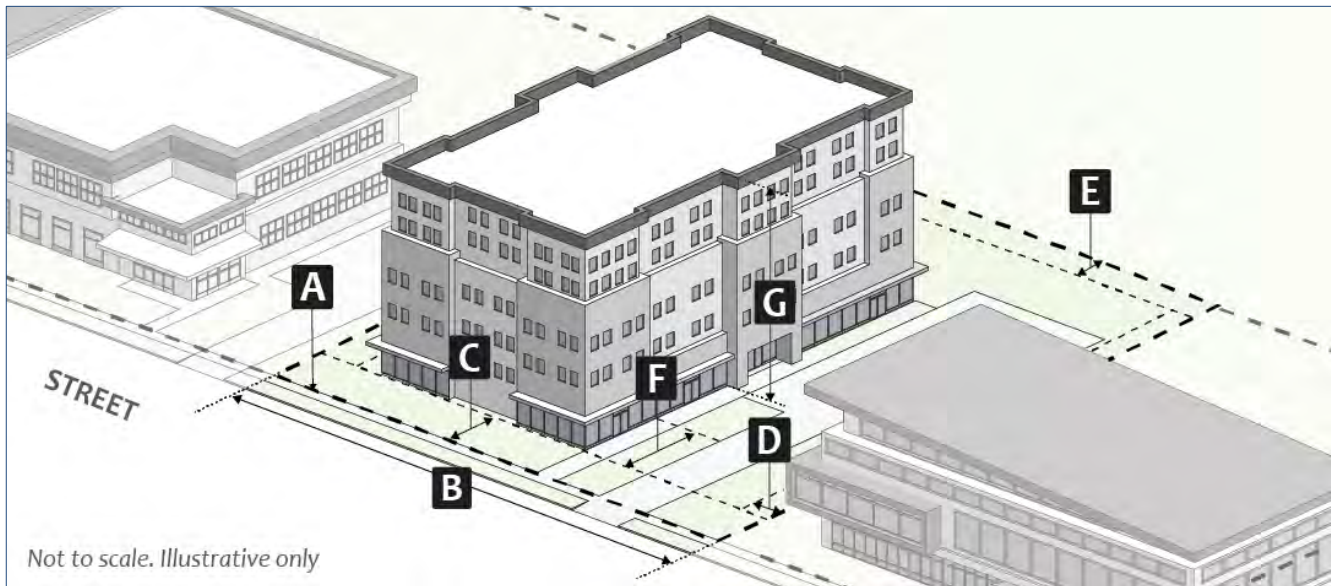
The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-13: ME District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	5,000 square feet (0.115 acres)
B	Lot width	50 feet
Building Setbacks (Minimum)		
C	Front	15 feet
D	Side	10 feet [1]
E	Rear	10 feet [1]
Other Standards		
F	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Impervious surface coverage (maximum)	70%
	Landscape area (minimum)	30%
G	Primary structure height (maximum)	5 stories, not to exceed 63 feet [1] [2] [3]
	Accessory structure height (maximum)	30 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.

**Figure 24: ME Dimensional Standards**

(f) MI: Mixed-use Institutional

(1) Purpose

The MI district is intended to provide regulations for properties that serve as community institutions, including but not limited to parks, schools, cemeteries, golf courses, religious institutions, nonprofit gathering places, and similar uses, regardless of public or private ownership.



Figure 25: Illustrative Scale and Character

(2) Dimensional Standards

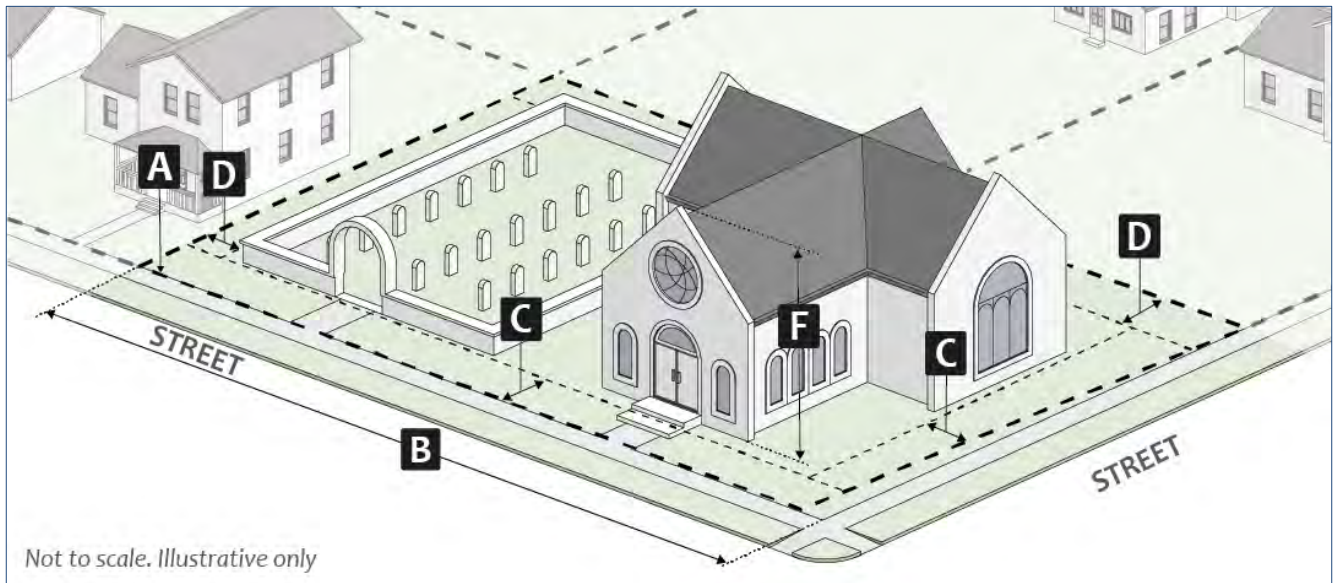
The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-14: MI District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	5,000 square feet (0.115 acres)
B	Lot width	50 feet
Building Setbacks (Minimum)		
C	Front	15 feet
D	Side	10 feet [1]
	Rear	10 feet [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Impervious surface coverage (maximum)	60%
	Landscape area (minimum)	40%
F	Primary structure height (maximum)	4 stories, not to exceed 50 feet [1] [2] [3]
	Accessory structure height (maximum)	30 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.

**Figure 26: MI Dimensional Standards**

(g) MD: Mixed-use Downtown**(1) Purpose**

The MD district is intended to protect and enhance the character of the central business district, to guide new development and redevelopment activities in the downtown area, and to promote a mix of moderate-to high-density development with active street edges. The zoning district is divided into six different Downtown Character Overlays and permitted size and scale of buildings vary among those Downtown Character Overlays to ensure that projects are compatible in mass and scale with historic structures in the surrounding areas.

(2) Other Applicable UDO Sections

All development shall comply with all other applicable regulations in this UDO including, without limitation, the Downtown Character Overlay regulations in 20.02.050(a), the permitted use regulations in Chapter 20.03 and development regulations in Chapter 20.04.

(3) Dimensional Standards

Dimensional standards for the Downtown Character Overlays are shown in Sections 20.02.020(g)(4) through 20.02.020(g)(9) below.

(4) MD-CS: Mixed-Use Downtown - Courthouse Square Downtown Character Overlay**(A) Purpose**

The Mixed-Use Downtown Courthouse Square (MD-CS) character area is intended to maintain the historic character of downtown by providing a diverse mix of traditional commercial retail uses at the street level to capitalize on, maintain and enhance the pedestrian activity, and to visually define the sidewalk edges with interesting buildings that respect the established context of traditional commercial storefront buildings.



Figure 27: Illustrative Scale and Character

(B) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-15: MD-CS Dimensional Standards

Building Setbacks		
A	Build-to range	0 to 5 feet
B	Building facade at build-to range (minimum)	90%
	Front (maximum)	None
	Side (minimum)	None [1]
	Rear (minimum)	None [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Side and Rear parking setback (minimum)	Requirements set per Section 20.04.080(h)(1)(A)(ii)
	Impervious surface coverage (maximum)	100%
C	Primary structure height (maximum)	3 stories, not to exceed 40 feet [1] [2] [3] [4]
	Primary Structure height (minimum)	25 feet
	Accessory structure height (maximum)	25 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.
- [4] Buildings that include one or more dwelling units that meet the definition of "Student Housing or Dormitory" shall be subject to the maximum building heights established in Section 20.03.030(b)(13) (Student Housing or Dormitory).

**Figure 28: MD-CS Downtown Character Overlay Dimensional Standards**

(5) MD-DC: Mixed-Use Downtown – Downtown Core Downtown Character Overlay**(A) Purpose**

The Mixed-Use Downtown Core (MD-DC) character area is intended to draw upon the design traditions exhibited by historic commercial buildings by providing individual, detailed storefront modules that are visually interesting to pedestrians, and to promote infill and redevelopment of sites using residential densities and building heights that are higher in comparison to other character areas within the downtown.



Figure 29: Illustrative Scale and Character

(B) Dimensional Standards

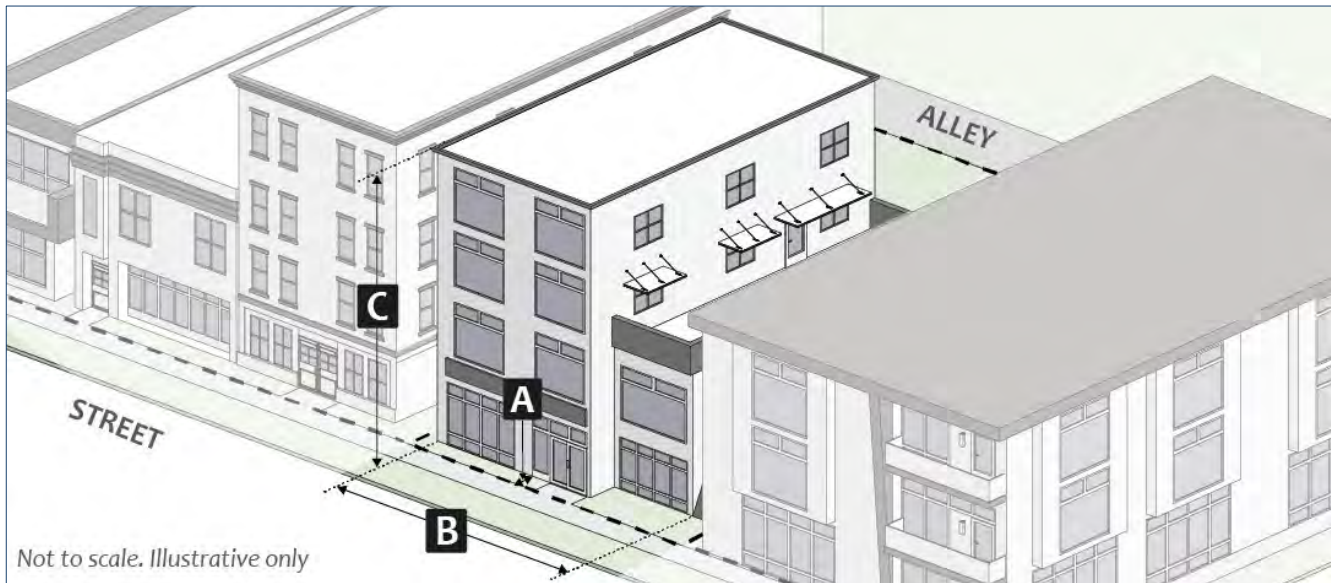
The following table is a summary of the character area specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-16: MD-DC Dimensional Standards

Building Setbacks		
A	Build-to range	0-5 feet
B	Building facade at build-to range (minimum)	70%
	Adjacent to B-Line (minimum)	10 feet
	Side (minimum)	None [1]
	Rear (minimum)	None [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Side and Rear parking setback (minimum)	Requirements set per Section 20.04.080(h)(1)(A)(ii)
	Impervious surface coverage (maximum)	100%
C	Primary structure height (maximum)	4 stories, not to exceed 50 feet [1] [2] [3] [4]
	Primary Structure height (minimum)	35 feet
	Accessory structure height (maximum)	25 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.
- [4] Buildings that include one or more dwelling units that meet the definition of "Student Housing or Dormitory" shall be subject to the maximum building heights established in Section 20.03.030(b)(13) (Student Housing or Dormitory).

**Figure 30: MD-DC Downtown Character Overlay Dimensional Standards**

(6) MD-UV: Mixed-Use Downtown - University Village Downtown Character Overlay**(A) Purpose**

The Mixed-Use Downtown University Village (MD-UV) character area is intended to serve as a dynamic and key transitional activity center that connects the courthouse square with Indiana University, to promote infill and redevelopment of sites using moderate residential densities for the university village area and higher residential densities along the Kirkwood Corridor (Washington Street to Indiana Avenue) and to protect and maintain the unique character of the converted residential structures along Restaurant Row (4th Street between Lincoln Street and Dunn Street).



Figure 31: Illustrative Scale and Character

(B) Dimensional Standards

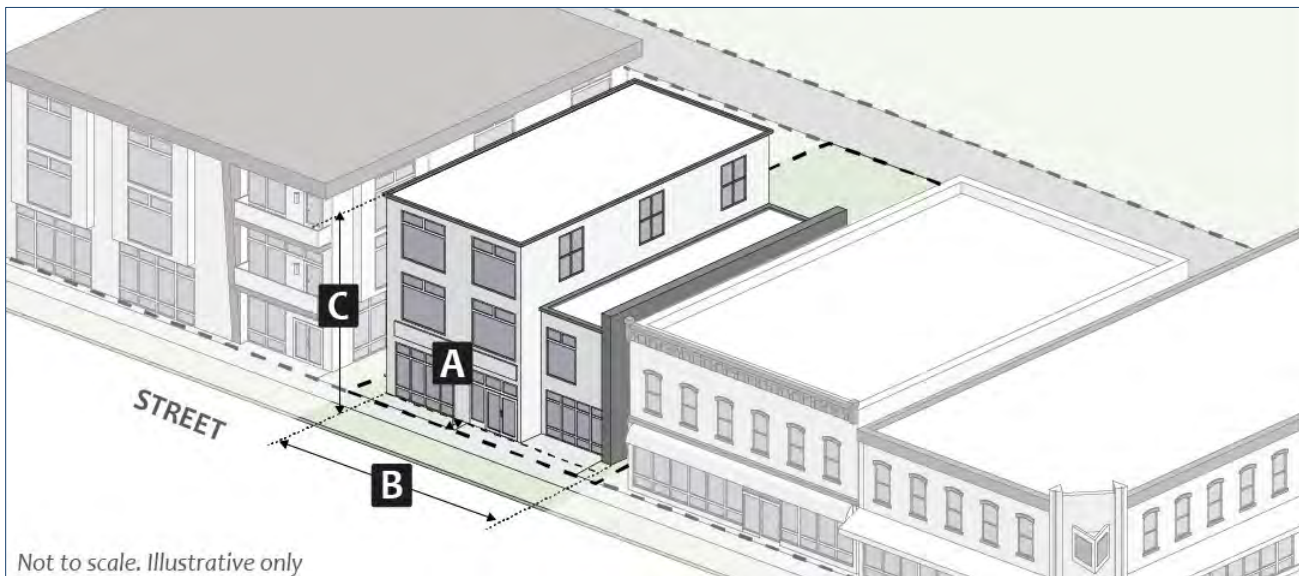
The following table is a summary of the character area specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-17: MD-UV Dimensional Standards

Building Setbacks				
A	Build-to range	0 to 15 feet		
B	Building facade at build-to percentage (minimum)	70%		
	Side (minimum)	None [1]		
	Rear (minimum)	None [1]		
Other Standards		General	Kirkwood Corridor	Restaurant Row
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall		
	Side and Rear parking setback	Requirements set per Section 20.04.080(h)(1)(A)(ii)		
	Impervious surface coverage (maximum)	85 %	100 %	85%
	Landscape area (minimum)	15%	n/a	15%
C	Primary structure height (maximum)	3 stories, not to exceed 40 feet [1] [2] [3] [4]	3 stories, not to exceed 40 feet [1] [2] [3] [4]	3 stories, not to exceed 35 feet [1] [2] [3] [4]
	Primary Structure height (minimum)	25 feet	25 feet	20 feet
	Accessory structure height (maximum)	25 feet		

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.
- [4] Buildings that include one or more dwelling units that meet the definition of "Student Housing or Dormitory" shall be subject to the maximum building heights established in Section 20.03.030(b)(13) (Student Housing or Dormitory).

**Figure 32: MD-UV Downtown Character Overlay Dimensional Standards**

(7) MD-DE: Mixed-Use Downtown – Downtown Edges Downtown Character Overlay**(A) Purpose**

The Mixed-Use Downtown Edges (MD-DE) character area is intended to guide both new development and redevelopment activities to ensure that new development is compatible in mass and scale with historic structures in the downtown edges character area, and to create a transitional zone between downtown commercial and core residential development where design reflects a mix of traditional commercial storefronts and residential development configurations.



Figure 33: Illustrative Scale and Character

(B) Dimensional Standards

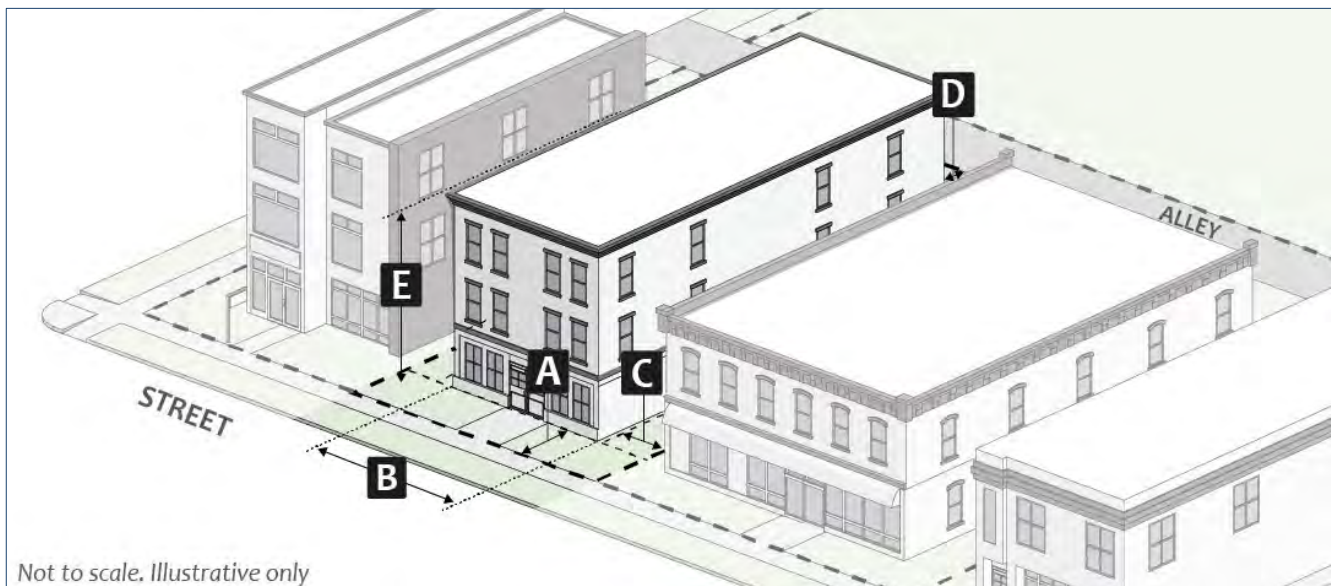
The following table is a summary of the character area specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-18: MD-DE Dimensional Standards

Building Setbacks		
A	Build-to range	0 to 15 feet
B	Building facade build-to percentage (minimum)	70%
C	Side (minimum)	7 feet [1]
D	Rear (minimum)	10 feet [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Side and Rear parking setback (minimum)	Requirements set per Section 20.04.080(h)(1)(A)(ii)
	Impervious surface coverage (maximum)	75%
	Landscape area (minimum)	25%
E	Primary structure height (maximum)	3 stories, not to exceed 40 feet [1] [2] [3] [4]
	Primary Structure height (minimum)	20 feet
	Accessory structure height (maximum)	25 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.
- [4] Buildings that include one or more dwelling units that meet the definition of "Student Housing or Dormitory" shall be subject to the maximum building heights established in Section 20.03.030(b)(13) (Student Housing or Dormitory).

**Figure 34: MD-DE Downtown Character Overlay Dimensional Standards**

(8) MD-DG: Mixed-Use Downtown - Downtown Gateway Downtown Character Overlay**(A) Purpose**

The Mixed-Use Downtown Gateway (MD-DG) character area is intended to draw upon architectural detailing and thoughtful site planning to reflect the vital transitional nature of the district to the overall arrival and departure sequence to the downtown area and to create active mixed-use developments that link to adjacent neighborhoods and the downtown circulation network.



Figure 35: Illustrative Scale and Character

(B) Dimensional Standards

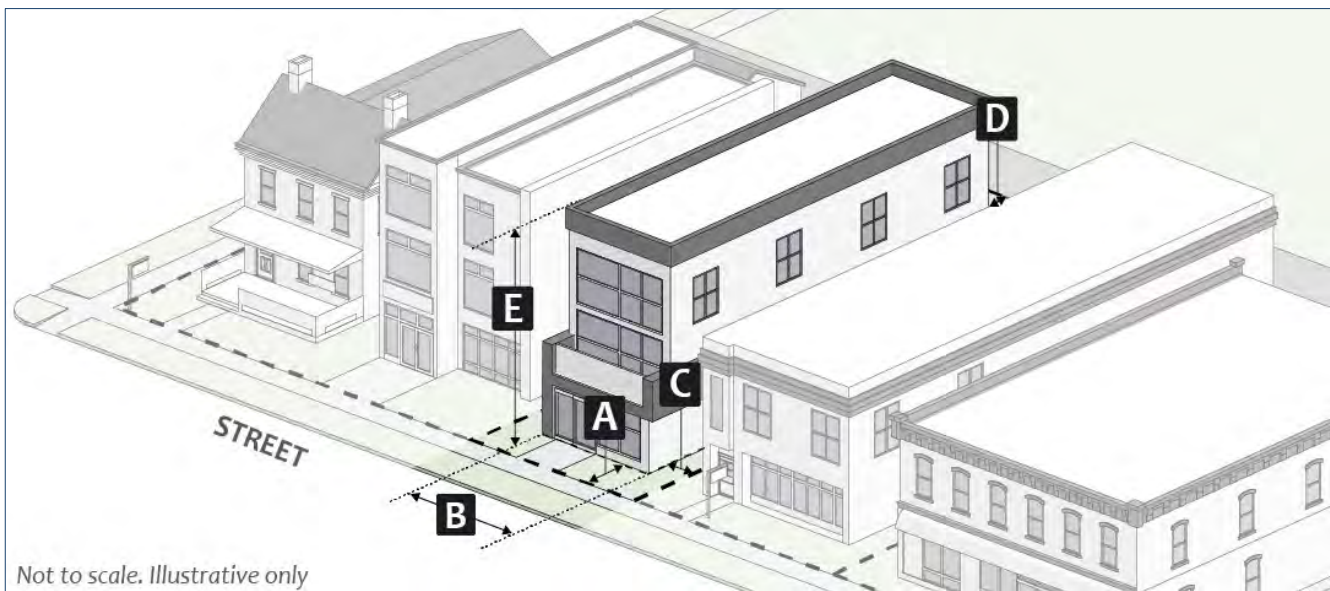
The following table is a summary of the character area specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-19: MD-DG Dimensional Standards

Building Setbacks		
A	Build-to range	0 to 15 feet
B	Building facade build-to percentage (minimum)	70%
C	Side (minimum)	5 feet [1]
D	Rear (minimum)	5 feet [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Side and Rear parking setback (minimum)	Requirements set per Section 20.04.080(h)(1)(A)(ii)
	Impervious surface coverage (maximum)	75%
	Landscape area (minimum)	25%
E	Primary structure height (maximum)	3 stories, not to exceed 40 feet [1] [2] [3] [4]
	Primary Structure height (minimum)	25 feet
	Accessory structure height (maximum)	30 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.
- [4] Buildings that include one or more dwelling units that meet the definition of "Student Housing or Dormitory" shall be subject to the maximum building heights established in Section 20.03.030(b)(13) (Student Housing or Dormitory).

**Figure 36: MD-DG Downtown Character Overlay Dimensional Standards**

(9) **MD-ST: Showers Technology Downtown Character Overlay**

(A) **Purpose**

The Mixed-Use Downtown – Showers Technology character area is intended to draw upon architectural detailing and thoughtful site planning to complement the mass and scale of existing historic structures, draw upon neo-traditional design concepts to extend the street grid and to create publicly accessible open space, integrate development that is strategically planned to promote mixed-use development focused on light industrial, manufacturing, and office uses where live/work, young professional, single-family, empty nester and retiree housing markets are targeted..



Figure 37: Illustrative Scale and Character

(B) Dimensional Standards

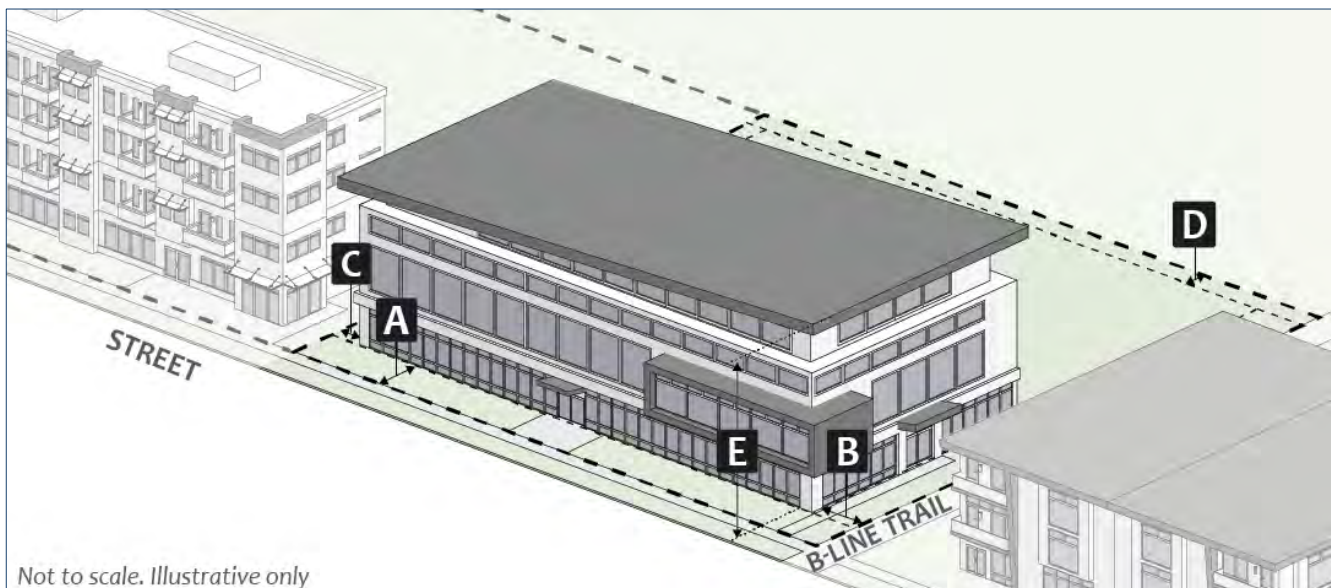
The following table is a summary of the character area specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-20: MD-ST Dimensional Standards

Building Setbacks		
A	Front (maximum)	15 feet
B	Adjacent to B-Line (minimum)	15 feet
C	Side building setback (minimum)	5 feet [1]
D	Rear building setback (minimum)	5 feet [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Side and Rear parking setback (minimum)	Requirements set per Section 20.04.080(h)(1)(A)(ii)
	Impervious surface coverage (maximum)	85%
	Landscape area (minimum)	15%
E	Primary structure height (maximum)	4 stories, not to exceed 50 feet [1] [2] [3] [4]
	Primary Structure height (minimum)	25 feet
	Accessory structure height (maximum)	30 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.
- [4] Buildings that include one or more dwelling units that meet the definition of "Student Housing or Dormitory" shall be subject to the maximum building heights established in Section 20.03.030(b)(13) (Student Housing or Dormitory).

**Figure 38: MD-ST Downtown Character Overlay Dimensional Standards**

(h) MH: Mixed-use Healthcare

(1) Purpose

The MH district is intended to allow for the continued viability of medical related uses surrounding the current hospital site during the transition of the hospital from this zoning district to its new site in northeast Bloomington, and to control redevelopment of land surrounding the old hospital site while planning for redevelopment of the area is underway.



Figure 39: Illustrative Scale and Character

(2) Dimensional Standards

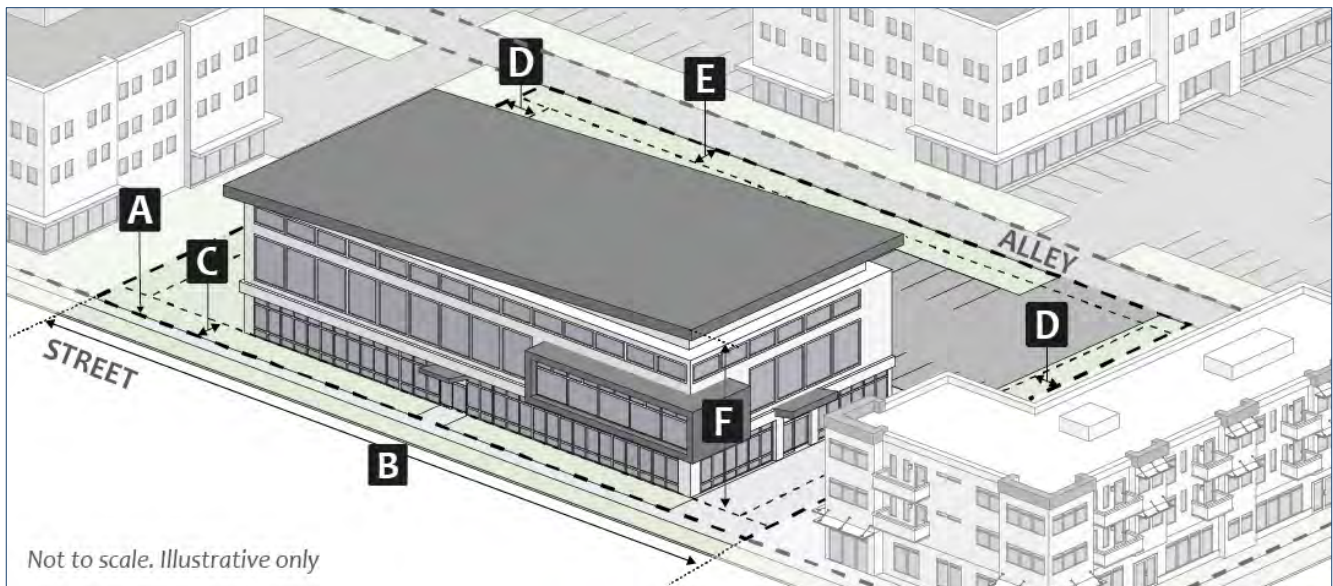
The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-21: MH District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	10,890 square feet (0.250 acres)
B	Lot width	65 feet
Building Setbacks (Minimum)		
C	Front	25 feet
D	Side	10 feet [1]
E	Rear	10 feet [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Impervious surface coverage (maximum)	60%
	Landscape area (minimum)	40%
F	Primary structure height (maximum)	3 stories, not to exceed 40 feet [1] [2] [3]
	Accessory structure height (maximum)	25 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height on the ground floor shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.

**Figure 40: MH Dimensional Standards**

20.02.030 Nonresidential Zoning Districts

(a) EM - Employment

(1) Purpose

The EM district is intended to accommodate existing and future employment uses that provide basic employment needs for Bloomington and the surrounding region, while ensuring that the site design, uses, and development scale are consistent with adjacent development.



Figure 41: Illustrative Scale and Character

(2) Dimensional Standards

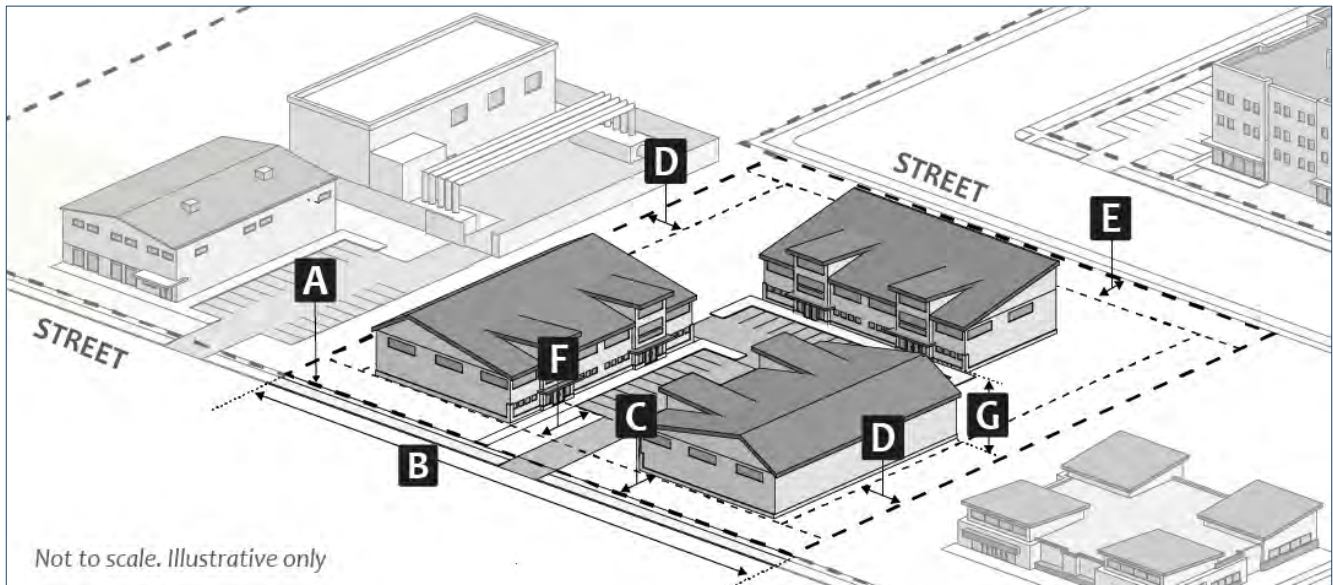
The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-22: EM District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	None
B	Lot width	100 feet
Building Setbacks (Minimum)		
C	Front	25 feet
D	Side	20 feet [1]
E	Rear	20 feet [1]
Other Standards		
	Front parking setback (minimum)	20 feet behind the primary structure's front building wall
	Impervious surface coverage (maximum)	70%
	Landscape area (minimum)	30%
F	Primary structure height (maximum)	4 stories, not to exceed 50 feet [1]
	Accessory structure height (maximum)	35 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).

**Figure 42: EM Dimensional Standards**

(b) PO – Parks and Open Space

(1) Purpose

The PO district is intended to accommodate and protect City-owned parks and open spaces and to limit structures and land uses to those compatible with the City's management plans for such properties.



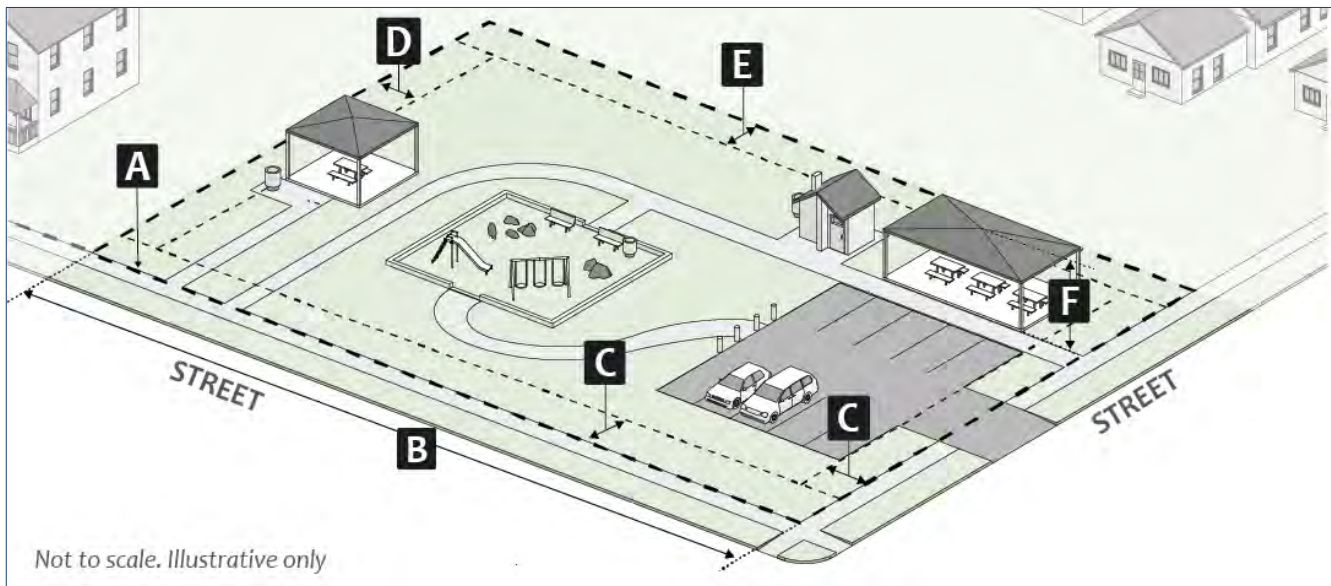
Figure 43: Illustrative Scale and Character

(2) Dimensional Standards

The following table is a summary of the district-specific dimensional standards. Additional standards from Section 20.04.020 (Dimensional Standards) also apply.

Table 02-23: PO District Dimensional Standards

Lot Dimensions (Minimum, only for lots created after the effective date)		
A	Lot area	None
B	Lot width	None
Building Setbacks (Minimum)		
C	Front setback	15 feet
D	Side setback	5 feet
E	Rear setback	5 feet
Other Standards		
	Front parking setback (minimum)	15 feet
	Impervious surface coverage (maximum)	None
F	Primary structure height (maximum)	20 feet
	Accessory structure height (maximum)	20 feet

**Figure 44: PO Dimensional Standards****(3) Additional PO District Standards**

- (A) All land uses, structures, and development in the PO district shall comply with all other provisions of this UDO unless specifically exempted in this UDO or through subsection (B) below.
- (B) In the event of a conflict between the provisions of this UDO and the provisions of an adopted City management plan, rule, or regulation applicable to that park or open space land or facility, the provisions of this UDO shall apply.

20.02.040 Planned Unit Development (PUD) District

(a) Purpose

The purpose of the Planned Unit Development (PUD) district is to encourage new and imaginative concepts in urban design and land development to promote and improve the health, safety, and general welfare of the residents of the City and to create distinct developments with unique urban design, mixed uses, enhanced ecosystems services, and substantial additional benefit to the City that would not otherwise be required by this UDO. The PUD district is also intended to accommodate innovative development layouts that preserve the natural, environmental and scenic features of the site or address challenges presented by specific site conditions.

(b) Qualifying Standards

A petition for rezoning into a Planned Unit Development (PUD) district shall only be considered if the petition meets the following criteria, as determined by the Planning and Transportation Director:

- (1) The proposed PUD zoning district includes a minimum of five acres of land;
- (2) The land included in the proposed PUD zoning district is not within the Mixed-Use Downtown (MD) zoning district;
- (3) Where residential dwelling units are proposed, a minimum of 15 percent of the total dwelling units must be permanently income-limited through a deed restriction to households earning less than 120 percent of the HUD AMI for Monroe County, Indiana and the development will be subject to the applicable standards established in Subsection 20.04.110(c): *Affordable Housing*, unless the City otherwise adjusts or releases this requirement;
- (4) The proposed PUD could not be developed using conventional zoning districts or standards established in this UDO;
- (5) The land included in the proposed PUD is under single ownership or control. Single control of property under multiple ownership may be considered when the petition includes enforceable agreements, covenants, or commitments that run to the benefit of the City and that the City may require to be recorded if the PUD is approved; and
- (6) The proposed PUD zoning district embraces the following highly-valued design features:
 - (A) Protection of specific natural, environmental, or scenic resources or green spaces; and/or
 - (B) Retaining natural landforms throughout the development; and/or
 - (C) Low Impact Development design features throughout the development; and/or
 - (D) Solar orientation of building forms and other passive energy-efficient design strategies throughout the development.
- (7) The proposed PUD zoning district embraces several highly-valued design features, as determined by the Planning and Transportation Director, including but not limited to:
 - (A) No block perimeter greater than 1,400 feet in the development;
 - (B) Centralized gathering and recreation spaces of an appropriate size for the entire development, or designed to serve an area larger than the entire development;
 - (C) Internally and externally connected park, trail, and open space system;

- (D) Community-level renewable energy production.

(c) Permitted Uses

- (1) The permitted uses in a PUD district ordinance are subject to the approval of the Plan Commission and Common Council.
- (2) The permitted uses shall be determined based on consistency with the Comprehensive Plan, the existing zoning district designation of the area being rezoned to a PUD district, the land uses contiguous to the area being rezoned to a PUD district, and the development standards and design standards of the UDO.
- (3) If the terms of the PUD approved by Common Council do not clearly address the availability of specific uses in all or part of the development, then the uses and use-specific standards that would otherwise be applicable to development of the same character and scale if it were zoned into one of the base zoning districts in Sections 0 through 20.02.030, as determined by the Planning and Transportation Director, shall apply.

(d) Development Standards

- (1) The development standards in a PUD district ordinance are subject to the approval of the Plan Commission and Common Council.
- (2) The development standards shall be determined based on consistency with the Comprehensive Plan, the existing zoning district designation of the area being rezoned to a PUD, and the development and design standards of the UDO.
- (3) If the terms of the PUD approved by Common Council do not state that the development standards or subdivision standards differ from those listed in Chapter 20.04: (Development Standards & Incentives) or Chapter 20.05: (Subdivision Standards), then the standards in those Chapters that would otherwise be applicable to development of the same type and scale if it were not zoned PUD, as determined by the Planning and Transportation Director, shall apply.

(e) Review and Approval Procedures

Procedures and criteria for review and approval of a PUD district are in Section 20.06.070(c) (Rezoning to Planned Unit Development (PUD)).

20.02.050 Overlay Districts

(a) DCO - Downtown Character Overlay District

The following standards apply within the Downtown Character Overlays located in the Mixed-Use Downtown MD zoning district and are intended to implement the Downtown Vision and Infill Strategy Plan. In case of a conflict between the standards in this Section 20.02.050(a) and the standards in the underlying MD zoning district, the provisions in this section shall apply.

(1) West Kirkwood Corridor

- (A) The construction of new buildings on lots between Kirkwood Avenue and its adjacent alleys to the north and south, between Rogers Street and Adams Street, as more specifically mapped in the plan for West Kirkwood, shall comply with the architectural standards outlined in the plan for West Kirkwood.
- (B) Where both this UDO and the plan for West Kirkwood contain standards governing any architectural feature, the standards contained in the plan for West Kirkwood shall govern.

(2) Required Building Entrances

- (A) At least one pedestrian entrance shall be provided for any primary building facade facing a public street.
- (B) At least one pedestrian entrance shall be provided per 100 feet of building frontage along the B-line trail.
- (C) Required pedestrian entrances shall incorporate a landscaped plaza area that provides three or more of the following plaza amenities:
 - i. Benches (minimum of two);
 - ii. Bike racks;
 - iii. Public art or water feature;
 - iv. Drinking fountain;
 - v. Trash receptacles; or
 - vi. Landscaped Areas or Planters.
- (D) At least one pedestrian entrance to each primary building shall be constructed at an elevation that is within three feet of the adjacent sidewalk elevation.

(3) Orientation of Entrances

- (A) Any facade of a primary building facing a public street shall be considered a primary facade.
- (B) The primary pedestrian entrance shall not be located on a building facade adjacent to an alley.
- (C) For structures located within the Kirkwood Corridor, the primary pedestrian entrance shall be oriented to Kirkwood Avenue.
- (D) For structures located within Restaurant Row, the primary pedestrian entrance shall be oriented to 4th Street.

(4) Primary Building Roof Design

(A) All primary buildings shall incorporate the roof shapes shown in the following table:

Table 02-24: Primary Building Roof Design

Character Area	Roof Shape Permitted
CS, DC	Flat roofs with parapets.
UV	Kirkwood Corridor: Flat roofs with parapets. Restaurant Row: Sloped or pitched gable and/or hip roofs.
DE	Sloped or pitched gable and/or hip roofs; except that primary buildings facing Rogers, Walnut, Third, or Washington Streets or College Avenue may incorporate flat roofs with parapets. Each section of a sloped or pitched roof with a roof ridge greater than 40 feet in width parallel to a street shall incorporate at least one dormer into that section of the roof.
DG, ST	DG: Flat roofs with a parapet, sloped, or pitched roofs are allowed. Each section of a sloped or pitched roof with a roof ridge greater than 65 feet in width parallel to a street shall incorporate at least one dormer into that section of the roof. ST: Flat roofs with parapets.

(B) Where roofs with parapets are permitted, the parapet height shall not exceed 15 percent of the supporting wall height.

(C) Where sloped roofs are permitted, the roof shall have at least an 8:12 pitch.

(5) Upper Floor Facade Stepbacks

All primary buildings shall comply with the following standards for upper floor stepbacks:

- (A) The first three stories of building facade in the DC character area, and the first two stories in the DG and ST character areas shall comply with the build-to range in Section 20.02.010 (Dimension Standards).
- (B) All portions of the building facade facing the street above three stories in the DC character area, and portions of the building facade facing the street above two stories in the DG and ST character areas, shall step back from the lower story vertical facade/wall plane a minimum of 15 feet.

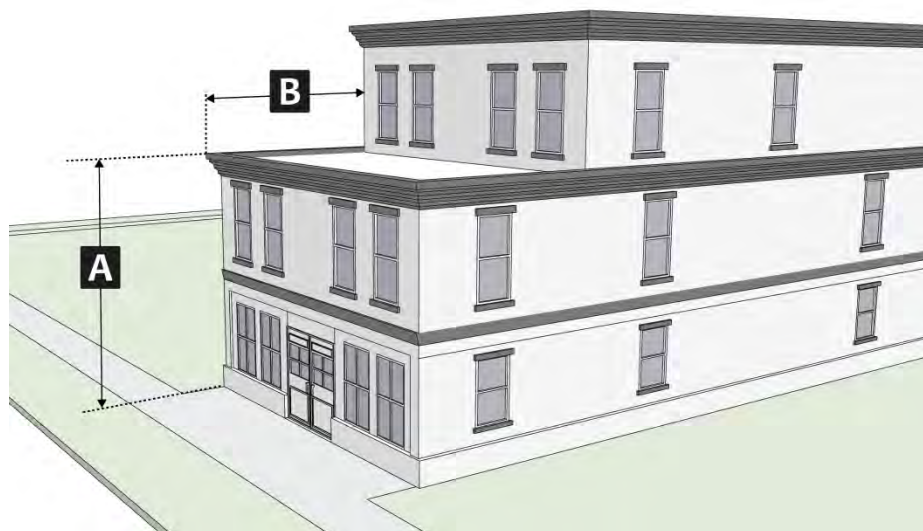


Figure 45: Upper Floor Facade Stepbacks

(6) **Windows and Doors on Primary Facades**

All primary facades of a primary building shall meet the window and door design standards shown in the following table:

Table 02-25: Windows and Doors on Primary Facades

Downtown Character Overlays	Window and Door Areas and Design Required
First Floor (Building Base) Facade Facing a Street	
Transparent glass or framed facade open areas consisting of display windows, entries and doors shall comprise at least the following percentages of the total wall/facade area.	
CS	70% Large display windows shall be used along all first-floor facades facing a street and shall incorporate transom windows and window bases/ kickplates. A frieze or sign band shall be incorporated above first floor display windows.
DC	60%
UV	General: 50% Kirkwood Corridor: 60%
DE, DG, ST	40%
First Floor (Building Base) Facing the B-Line Trail	
Transparent glass or framed facade open areas consisting of display windows, entries and doors shall comprise at least the following percentages of the total wall/facade area.	
All	60%
Upper Floors (Building Middle) Facing a Street	
Each floor above the first floor shall comply with the following requirements for transparent glass or facade openings	
CS, DC, DE, DG	Minimum 20%; Maximum 70% Window frame heights shall be at least one and one-half times the window frame width.

Table 02-25: Windows and Doors on Primary Facades

Downtown Character Overlays	Window and Door Areas and Design Required
	<p>Window frames shall incorporate windowsills and lintels and/or window heads that are visually distinct from the primary exterior finish materials used on the facade on which it is located.</p> <p>Windows in the CS Downtown Character Overlays shall have the appearance of double-hung windows punched into the wall surface.</p>
UV, ST	<p>Minimum 20%; Maximum n/a</p> <p>Windows in the UV Character Area shall have the appearance of double-hung windows</p>

(7) Primary Pedestrian Entrances

All primary facades of a primary building shall incorporate the levels of window and door areas, and shall meet the window and door design standards shown in the following table:

Table 02-26: Primary Pedestrian Entrances

Downtown Character Overlays	Primary Pedestrian Entrance Design Standards
CS and DC	<p>The entrance shall be recessed a minimum of four feet from the building facade.</p> <p>The entrance shall incorporate a prominent building address, building name and enhanced exterior entryway lighting.</p> <p>The entrance shall incorporate at least one of the following features:</p> <ol style="list-style-type: none"> 1. A canopy or awning; 2. Pilasters or a facade module projecting from the wall plane; 3. A raised corniced entryway parapet; or 4. Public art display of a size that is clearly visible to pedestrians using the adjoining sidewalk.
UV, DE, DG, and ST	<p>The entrance shall incorporate at least two of the following architectural design features:</p> <ol style="list-style-type: none"> 1. An entry door recessed at least a four foot from the sidewalk edge; 2. A plaza space with ornamental paving and integral landscape planters; 3. A canopy or awning; 4. A portico; 5. A buttress and arched entry; 6. Pilasters or a facade module projecting from the exterior wall plane; 7. A prominent building address, building name and enhanced exterior entryway lighting; 8. A public art display of a size that is clearly visible to pedestrians using the adjoining sidewalk; 9. A raised corniced entryway parapet (which may exceed building height by up to three feet) or a gable; 10. Rusticated masonry; 11. A landscaped patio area with outdoor seating for at least eight persons; or 12. A front porch.

(8) Facade Articulation

The following standards apply to all street facing and non-street facing facades of primary buildings:

(A) Belt Courses

In the CS and DC Downtown Character Overlays:

- i. Building facades shall incorporate exterior horizontal belt course design elements for the building base, middle and cap through techniques such as copestone, dripstone, string course, water table, and/or plinth using natural stone or masonry.
- ii. Building facades shall incorporate exterior vertical banding techniques using natural stone or masonry to visually define building subdivisions of wall planes, modules, or building facade focal points.

(B) Other Articulation Required

Each facade of a primary building facing a street or the B-Line Trail shall be articulated through recessing, banding, articulation of exterior materials, or change of materials, by incorporating patterns that:

- i. Are offset by a minimum depth (projecting or recessing) of five percent of the total facade length, at a minimum of five feet, and the offset shall extend the length and height of its module; and
- ii. Vary or repeat based on the maximum facade module lengths shown in the table below.

Table 02-27: Primary Building Articulation

Downtown Character Overlays	Lengths of Facade Articulation Modules	
	Maximum	Minimum
CS, UV	50 feet	20 feet
DC, DG	65 feet	20 feet
DE	45 feet	20 feet
ST	100 feet	none

**Figure 46: Primary Building Articulation****(9) Facade Materials**

All street and non-street facing facades of a primary building shall comply with the materials requirements shown in the following table:

Table 02-28: Facade Materials

Downtown Character Overlays	Prohibited Facade Material Standards	
	Primary	Secondary
CS [1]	Wood, EIFS, smooth-faced or split-faced cement block, vinyl; metal, cementitious siding, and precast concrete	
DC	EIFS, vinyl, highly reflective materials, wood, smooth or split-faced cement block, and cementitious siding	EIFS, vinyl, and smooth or split-faced cement block
UV General DE, DG,	EIFS, vinyl, highly reflective materials, wood, smooth or split-faced cement block, metal, and precast concrete	EIFS, vinyl, and highly reflective materials
ST	EIFS, vinyl, highly reflective materials, wood, smooth or split-faced cement block, and precast concrete	EIFS, vinyl, and highly reflective materials
UV Kirkwood Corridor	EIFS, vinyl, wood, smooth or split-faced cement block, and cementitious siding	EIFS, vinyl, smooth or split-faced cement block, wood, and cementitious siding [2]
UV Restaurant Row	EIFS, vinyl, smooth or split-faced cement block, natural stone or masonry, and precast concrete	EIFS and vinyl

Notes:

[1] All exterior finish materials shall have a non-reflective, low reflectance, or matte finish.

[2] May only be used as a secondary facade material on floors above the first floor.

(10) Design Guidelines

Petitioners are encouraged to comply with design guidance in the following Guidelines contained in the Downtown Vision and Infill Strategy Plan to the degree that compliance with those guidelines does not create an inconsistency with the standards in Sections 2.21.1 through 2.21.8 above.

- (A) Site plan: Guidelines 3.1 and 3.2.
- (B) Architectural character: Guidelines 3.3 and 3.4.
- (C) Mass, scale and form: Guidelines 3.5, 3.6, 3.7, 3.8 and 3.9.
- (D) Exterior building materials: Guidelines 3.10, 3.11 and 3.12.
- (E) Upper story windows: Guidelines 3.13 and 3.14.
- (F) Entries: Guidelines 3.15 and 3.16.
- (G) Pedestrian interest: Guidelines 3.17, 3.18 and 3.19.
- (H) Mechanical equipment and service utilities: Guidelines 3.20, 3.21, 3.22 and 3.23.
- (I) Parking structures: Guidelines 3.24 and 3.25.
- (J) Lighting: Guidelines 3.26, 3.27 and 3.28.

(b) TRO: Transform Redevelopment Overlay

(1) Purpose

The TRO is intended to promote redevelopment that establishes a brand new identity for land use and natural attributes in order to significantly change the area from its current condition.

Development principles include mixed-use, green building, grid circulation, higher densities, diversity of housing types, and workforce/affordable housing. The overlay is intended to encourage public and private investment to improve and stimulate the economic vitality and social character of areas within the TRO.

(2) Applicability

The Transform Redevelopment Overlay may be established in a district other than R1, R2, R3, RMH, MS, MD, or PUD subject to 20.06.070(b) Zoning Map Amendment. In no case shall the TRO overlap with another overlay district.

(3) Other Applicable UDO Sections

The Transform Redevelopment Overlay shall supersede the regulations of the underlying base zoning district for all specific regulations that are included within this section. If no specific and differing regulations are included, the regulations of the underlying base zoning district shall apply.

(4) Dimensional Standards

The following table is a summary of the Transform Redevelopment Overlay dimensional standards. Additional Standards from the underlying base zoning district from Section 20.04.020 (Dimensional Standards) shall apply if no specific standard is included below.

Table 02-29: TRO District Dimensional Standards**Lot Dimensions (Only for lots created after the effective date)**

A	Lot area (minimum)	Mixed-Use & Nonresidential Zoning Districts: None Residential Zoning Districts: 1,500 square feet (0.034 acres)
B	Lot width (minimum)	35 feet
	Lot width (maximum)	Mixed-Use & Nonresidential Zoning Districts: None Residential Zoning Districts: 70 feet

Building Setbacks			Single-Family, Duplex, Triplex, or Fourplex Dwelling
C	Build-to range	Mixed-Use & Nonresidential Zoning Districts: 0 to 15 feet Residential Zoning Districts: 10 to 20 feet	R4 district standards apply [2]
	Building facade build-to percentage (minimum)	Mixed-Use & Nonresidential Zoning Districts: 75% Residential Zoning Districts: 50%	
D	Side (minimum)	0 feet [1]	
E	Rear (minimum)	Mixed-Use & Nonresidential Zoning Districts: 0 feet [1] Residential Zoning Districts: 10 feet [1]	
Other Standards			
	Maximum impervious surface coverage increase	Mixed-Use & Nonresidential Zoning Districts: 25% percentage points [3] Residential Zoning Districts: 15% percentage points [3]	
	Minimum landscape area decrease	Mixed-Use & Nonresidential Zoning Districts: 25% percentage points [3] Residential Zoning Districts: 15% percentage points [3]	
	Primary structure height (minimum)	2 stories, not less than 20 feet	No minimum

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards)
- [2] In such cases a front setback is established
- [3] Increases and decreases are in addition to the standards of the underlying base zoning district. (e.g. a property with the underlying base zoning district MM (60% base) would be allowed a 85% maximum impervious surface coverage)

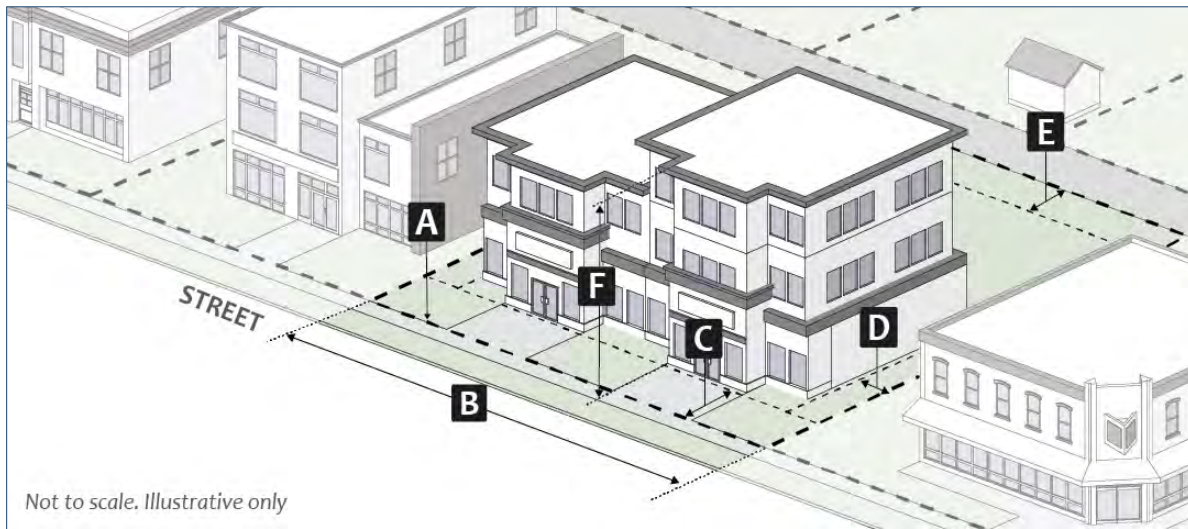


Figure 47: TRO Dimensional Standards

(5) Allowed Use Table Modifications**(A) Excluded Uses**

The following uses are prohibited within the TRO: Fraternity or sorority house; Opioid rehabilitation home, small; Crematory; Mortuary; Methadone treatment facility; Kennel; Country club; Sexually oriented business; Check cashing; Building supply store; Firearm sales; Pawn shop; Liquor or tobacco sales; Retail sales, big box; Vehicle fuel station; Student housing or dormitory.

(B) Permitted Uses

The following uses are permitted within the TRO: Dwelling, single-family (attached)*; Dwelling, duplex*; Dwelling, triplex*; Dwelling, fourplex*; Dwelling, multifamily**; Dwelling, live/work*; Restaurant**.

* = base zoning district use-specific standards apply

** = overlay use-specific standards apply only

(6) Use-Specific Standards

The lists of Permitted, Conditional, Accessory, Conditional Accessory, and Temporary uses listed in Table 3-1 (Allowed Use Table) are modified within the TRO as follows:

(A) Dwelling, Multifamily

- i. For structures with frontage along a street, identified in the Transportation Plan as Main Street, Shared Street, or General Urban, and structures along the B-Line Trail, each dwelling

unit located on the ground floor shall be located at least 20 feet behind each building façade facing a public street, or the B-Line Trail.

- ii. Ground floor dwelling units with a front building wall facing a street shall be raised 2 to 5 feet above the sidewalk level.
- iii. Each dwelling unit shall have direct access to a covered balcony, patio, or porch with an average depth of at least 5 feet located adjacent to or overlooking a common open space, right-of-way, or B-Line Trail.
- iv. Any portions within the ground floor of a structure used for vehicular parking shall be located at least 20 feet behind the building facade facing a public street.

(B) Restaurant

- i. In the RM and RH zoning districts, the restaurant shall contain no more than 5,000 gross square feet of floor area.

(7) Access and Connectivity

(A) Driveways and Access

i. Alley Access:

A driveway accessing the street shall be prohibited if the side or rear setback is adjacent via a platted alley.

ii. Surface Material:

Except for single-family, duplex, triplex, and fourplex uses, entrances and drives shall be constructed solely of permeable pavers.

(8) Parking and Loading

(A) Minimum Vehicle Parking Requirement:

Minimum vehicle parking requirements shall not apply to developments in the TRO.

(B) Maximum Vehicle Parking Allowance:

i. Household Living Uses:

Maximum vehicle parking allowance listed in Table 04-10: Maximum Vehicle Parking Allowance, shall apply to developments in the TRO except multifamily uses, which shall be limited to a maximum of 0.5 spaces per bedroom.

ii. All Other Uses:

The maximum vehicle parking allowance, listed in Table 04-10: Maximum Vehicle Parking Allowance, shall be reduced by 50% in the TRO.

(C) Surface Material:

Except for single-family, duplex, triplex, and fourplex residences and parking structures all vehicle parking shall be constructed solely of permeable pavers.

(9) Site and Building Design**(A) Street Lighting Plans Generally:**

- i. Pedestrian scaled street lighting shall be provided as approved by the Board of Public Works.
- ii. Pedestrian scaled street lighting shall not exceed 15 feet in height.

(B) Building Design**i. Exceptions**

- 1. Single-family, duplex, triplex, and fourplex dwellings shall not be subject to the architectural standards of this section 20.02.050(b). Such residential dwellings units shall be subject to the architectural standards of Section 20.04.070(d)(3) (Building Design).
- 2. Restoration and rehabilitation of structures designated as "Notable" or "Outstanding" on the City of Bloomington Survey of Historic Sites and Structures or those buildings in local historic districts shall not be subject to the architectural standards of this section 20.02.050(b). Such buildings shall be subject to the procedures outlined in Section 20.06.050(c) (Demolition Delay Permit) as required.

ii. Materials

All facades of a primary building shall consist of one or more of the following primary and secondary exterior finished materials:

1. Primary Exterior Finish Materials

- [a] Masonry;
- [b] Brick;
- [c] Natural Stone;
- [d] Transparent Glass;
- [e] Cementitious siding;
- [f] Precast concrete;
- [g] Metal (except corrugated);-or
- [h] Wood

2. Secondary Exterior Finish Materials

- [a] Stucco, plaster, or similar systems (excluding EIFS);
- [b] Split-faced block;-or
- [c] Other products that replicate the appearance and durability of the above materials, as approved by staff.

3. Prohibited Exterior Finish Materials

- [a] EIFS;
- [b] Vinyl; and
- [c] Highly reflective materials

iii. Primary Pedestrian Entry

1. At least one primary pedestrian entrance shall be provided from a sidewalk adjacent to every facade facing a street, public park, or the B-Line trail.
 - [a] Public access to nonresidential uses shall be provided at sidewalk grade via a sidewalk adjacent to a facade facing a street, public park, or the B-Line trail.
 - [b] Pedestrian entrances located within 0 to 5 feet of the front property line shall be recessed a minimum of four feet into the front building facade.
2. Pedestrian entries shall incorporate at least one of the following architectural design features:
 - [a] A portico;
 - [b] A buttress and arched entry;
 - [c] Pilasters or a facade module projecting from the exterior wall plane;
 - [d] A raised corniced entryway parapet (which may exceed building height by up to three feet) or a gable;
 - [e] Rusticated masonry;
 - [f] A front porch; or
 - [g] Other architectural designs as approved by the staff.

iv. Landscaped Frontage and Courtyards

1. Landscaped Frontage: Front building setbacks shall not generate unusable or dead space. Portions of a property between the right-of-way and the primary facade of a structure shall include a landscaped space which screens blank walls and is planted with grass or other vegetative ground cover. Landscaped outdoor commercial space, including outdoor seating, may be utilized to meet this requirement when contiguous with a commercial use. Landscaped private yards or patio areas may be utilized to meet this requirement when adjacent to a dwelling unit.

2. Courtyards: Primary buildings shall include courtyards equal to five percent of the building's total footprint. In no case shall a required courtyard be less than 250 square feet. The courtyard shall be visible from a sidewalk. Pedestrian entrances are permitted and encouraged to access from the courtyard. Mixed-use structures which feature a commercial use on the ground floor are exempt from this requirement. Reconfiguration of open space required by this UDO does not satisfy this requirement. Courtyards shall include one of the following features:
 - [a] A plaza space with ornamental paving and integral landscape planters;
 - [b] A landscaped patio area with outdoor seating for at least eight persons;
 - [c] A landscaped garden area; or
 - [d] Other landscaped areas as approved by the staff.

v. Exterior Facades

1. Generally: All facades of a primary building shall incorporate the following design elements to avoid blank, uninterrupted walls:
 - [a] A minimum of 20% of the total wall/facade area of all upper floor facades shall contain transparent glass or framed facade openings; and
2. Primary buildings with frontage along streets identified in the Transportation Plan as Main Street, Shared Street, or General Urban or along the B-Line Trail; or portions of primary buildings containing ground floor nonresidential uses shall incorporate the following design elements to avoid blank, uninterrupted walls:
 - [a] A minimum of 60% of the total wall/facade area of all ground floor facades shall contain transparent glass or framed facade open areas consisting of display windows, or entries and doors; and
 - [b] A canopy, awning, or other roof-like cover intended to protect from the weather with an average depth of at least 5 feet is required along at least 60% of the first floor of all primary facades. Retractable awnings may be used to meet this requirement; and
3. All other facades of a primary building shall incorporate the following design elements to avoid blank, uninterrupted walls:
 - [a] A minimum of 20% of the total wall/facade area of all ground floor residential facades shall contain transparent glass or framed facade open areas consisting of entries and doors; and
 - [b] A canopy, awning, or other roof-like cover intended to protect from the weather with an average depth of at least 5 feet is required along at least 20% of the first floor of all primary facades. Retractable awnings may be used to meet this requirement.

vi. Building Size Maximum**1. Building Floor Plate**

The maximum building floor plate for a structure in the TRO shall be 5,000 square feet per building, pursuant to the measurement standards in Section 20.040.020(g) (Building Floor Plate). However, if either the affordable housing incentive codified at Section 20.04.110(c) or the sustainable development incentive codified at Section 20.40.110(d) has been earned, the maximum building floor plate shall be 10,000 square feet per building. If both the affordable housing incentive codified at Section 20.04.110(c) and the sustainable development incentive codified at Section 20.040.110(d) have been earned, the maximum building floor plate shall be 15,000 square feet per building.

2. Building Height

The maximum building height shall not exceed the underlying base zoning district, except as necessary to accommodate additional height earned through this section:

[a] Eligibility

In addition to the eligibility criteria in 20.04.110(c) (2), affordable housing projects seeking increased maximum primary structure height shall comply with the following criteria:

- i. The building shall contain six or more dwelling units; and
- ii. Unit size and bedroom mix for deed-restricted units shall be comparable to those for market-rate units.

[b] Tier 1 Projects

Projects that meet the Tier 1 affordability standards may increase the primary structure height by two floors of building height, not to exceed 24 feet, beyond the maximum primary structure height established for the zoning district where the project is located, as identified in Section 20.04.020 (Dimensional Standards).

[c] Tier 2 Projects

Projects that meet the Tier 2 affordability standards may increase the primary structure height by two floors of building height, not to exceed 24 feet, beyond the maximum primary structure height established for the zoning district where the project is located, as identified in Section 20.04.020 (Dimensional Standards).

- [d] Projects achieving both Tier 1 and Tier 2 affordability standards may increase the primary structure height of four floors of building height, not to exceed 48 feet, beyond the maximum primary structure height established for the zoning district where the project is located, as identified in Section 20.04.020 (Dimensional Standards).
- [e] Sustainable Development Bonus
 - i. Tier 1 Projects: Projects that are eligible for increased primary structure height for affordable housing and sustainable development shall be eligible for one additional floor of building height, not to exceed 12 feet.
 - ii. Tier 2 Projects: Projects that are eligible for increased primary structure height for affordable housing and sustainable development shall be eligible for one additional floor of building height, not to exceed 12 feet. The additional floor of building height granted under this subsection shall be limited to 50 percent of the building footprint area of primary structure, and that additional floor shall be set back at least 10 feet further than the lower floors of the building.

(10) Landscaping, Buffering, and Fences

(A) Buffer Yards

Developments within the TRO are not required to provide buffer yards.

(B) Landscaping

i. Interior Plantings

The minimum landscape area on a site, as established in this section or areas not covered by an impervious surface or required buffer yard shall be planted with the following

1. A minimum of one canopy tree per 500 square feet. Open areas less than 10 feet in width may substitute ornamental trees for required canopy trees.
 - a. Tree location should maximize visibility between windows and the street.
2. A minimum of eight shrubs per 500 square feet. One ornamental tree may be substituted for every four shrubs; however, a substitution shall not exceed 50 of the required shrubs.
3. Shrubs and ornamental trees along foundation walls of a structure shall be planted no closer than two feet and eight feet respectively from the foundation wall.

ii. **Parking Lot Perimeter Plantings**

See Section 20.04.080(h)(1)

iii. **Parking Lot Landscape Bumpouts, Islands, and Endcaps**

See Section 20.04.080(h)(2)

(11) Subdivision Standards

All subdivisions within the Transform Redevelopment Overlay shall be designed according to the Infill Subdivision (IS) type specified in this Chapter and Chapter 20.05.

(A) Development Standards

Table 02-29: IS Subdivision Development Standards

General Standards	
Parent tract size (minimum)	None
Lots served by alleys (minimum percentage)	100% [1]
Block length (maximum)	400 feet
Right-of-Way Standards	
On-street parking [1]	Per Transportation Plan guidance [2]
Tree plot width (minimum)	Per Transportation Plan, or 7 feet, whichever is greater
Sidewalk/multiuse path width (minimum)	Per Transportation Plan, or 8 feet, whichever is greater

NOTES:

[1] Required to meet Transportation Plan guidance

[2] Where on-street parking is provided, it shall comply with the standards in 20.04.060(o) (On-street Parking Standards for Private Streets).

(B) Lots

i. **Design**

1. All new lots shall have frontage on a public street right-of-way or shall be part of a cottage home development with frontage on a public street right-of-way.

(12) Departures**(A) Purpose**

Departures are provisions that allow for form based adjustment or deviations from the dimensional, numeric, or building and site design standards of this UDO for properties within the Transform Redevelopment Overlay. Such departures are intended to meet the goals of the specific standard while providing exceptional architectural design which would not otherwise be permitted. Departures are intended to provide an alternative means of compliance by providing greater flexibility when necessary to achieve the goals of the Comprehensive Plan and the Transform Redevelopment Overlay. Departures are not variances and are not intended to circumvent the variance process.

(B) Applicability

- i. Any site plan, or portion of a site plan, as determined by the Planning and Transportation Director to offer a unique and beneficial design under the criteria in this section may be considered for a departure.
- ii. Any project that would qualify for minor site plan review but would require a departure as allowed in this section shall be required to undergo major site plan review.

(C) Limitations on Departures

- i. The departure procedure shall not apply to any proposed modification or deviation that results in:
 1. A change in permitted uses or mix of uses;
 2. A deviation from building or fire codes;
 3. A deviation from engineering standards;
 4. Requirements for public roadways, utilities, or other public infrastructure or facilities; or
 5. A change to a development standard where that same standard was already modified through a separate administrative adjustment or variance.

(D) Departure Review Process**i. Petition Submittal and Handling**

A petition for departure shall only be submitted and reviewed concurrently with a petition for a major site plan review. Each UDO standard shall be considered a separate departure

request as it relates to the approval criteria, but multiple departures may be considered in one departure petition.

ii. Review and Decision

1. The Plan Commission shall review and decide the departure petition based on the following criteria:
 - [a] The proposed departure and development shall be consistent with and shall not interfere with the achievement of the goals and objectives of the Comprehensive Plan and any other applicable adopted plans and policies;
 - [b] Provides adequate public services and facilities;
 - [c] Will not create a hardship or adverse impacts on adjacent properties unless adequately mitigated;
 - [d] Is of a technical nature and is required to provide for an exceptional architectural design which will:
 - i. Significantly enhance the visual appeal of the building;
 - ii. Significantly enhance the perceived quality of the building facades visible from public streets; and
 - iii. Strengthen the public-private interaction at the street level.

Chapter 20.03: Use Regulations

20.03.010 General

(a) Organization of the Table

In the Allowed Use Table, land uses are classified into general use categories and specific uses based on common functional, product, or physical characteristics such as the type and amount of activity, the type of customers or residents, how goods or services are sold or delivered, and site conditions. This classification provides a systematic basis for assigning present and future land uses into appropriate zoning districts.

(b) Allowed Use Table

- (1) A "P" in a cell of the Allowed Use Table indicates that the use is permitted by-right in that zoning district, subject to compliance with the Use-Specific Standards cross-referenced in the right-hand column of that line of the table.
- (2) A "C" in a cell of the Allowed Use Table indicates that the use is permitted only after the petitioner obtains Conditional Use approval pursuant to Section 20.06.050(b) (Conditional Use Permit), and subject to the Use-Specific Standards cross-referenced in the right-hand column of that line of the table.
- (3) An "A" in a cell of the Allowed Use Table indicates that the use is permitted as an accessory use only in support of a permitted use on the site, and subject to the Use-Specific Standards cross-referenced in the right-hand column of that line of the table.
- (4) A "CA" in a cell of the Allowed Use Table indicates that the use is permitted only as an accessory use and only after the petitioner obtains Conditional Use approval pursuant to Section 20.06.050(b) (Conditional Use Permit), and subject to the Use-Specific Standards cross-referenced in the right-hand column of that line of the table.
- (5) A "T" in a cell of the Allowed Use Table indicates that the use is permitted as a temporary use, subject to the Use-Specific Standards cross-referenced in the right-hand column of that line of the table.
- (6) An "*" in a cell indicates that a Use-Specific Standard cross-referenced in the right-hand column of the table applies to the use in that zoning district.
- (7) A blank cell in the Allowed Use Table indicates that the use is not allowed in that zoning district.

(c) Multiple Uses

- (1) A lot or parcel in a Residential zoning district may include only one principal use, but may also include any Accessory, Conditional Accessory, or Temporary uses as shown in the Allowed Use Table, provided that a Conditional Use Approval is obtained for any Conditional Accessory Use, and that all Use-specific Standards applicable to each use are met.
- (2) A lot or parcel in a Mixed-Use or Nonresidential zoning district may include multiple principal uses, including a combination of residential and non-residential uses, provided that each use is either a Permitted Use or a Conditional Use in that zoning district, that a Conditional Use Approval is obtained for any Conditional Use, and that all Use-specific Standards applicable to each use are met.

(d) Unlisted Uses

When a proposed land use is not explicitly listed in Table 03-1: Allowed Use Table, the Planning and Transportation Director shall make a determination pursuant to Section 20.06.080(c) (Administrative Interpretation).

(e) Additional Use Standards in the Downtown Character Overlays**(1) Nonresidential Ground Floor Standards**

A minimum of 50 percent of the total ground floor area of a building located along each street frontage identified by a black line in Figure 48 shall be occupied by nonresidential primary uses listed in Table 3-1 as Permitted or Conditional in the MD zoning district, as those Permitted or Conditional uses are modified by those prohibited uses listed in subsection (2) below. Enclosed parking garages shall not be counted toward the required nonresidential use.

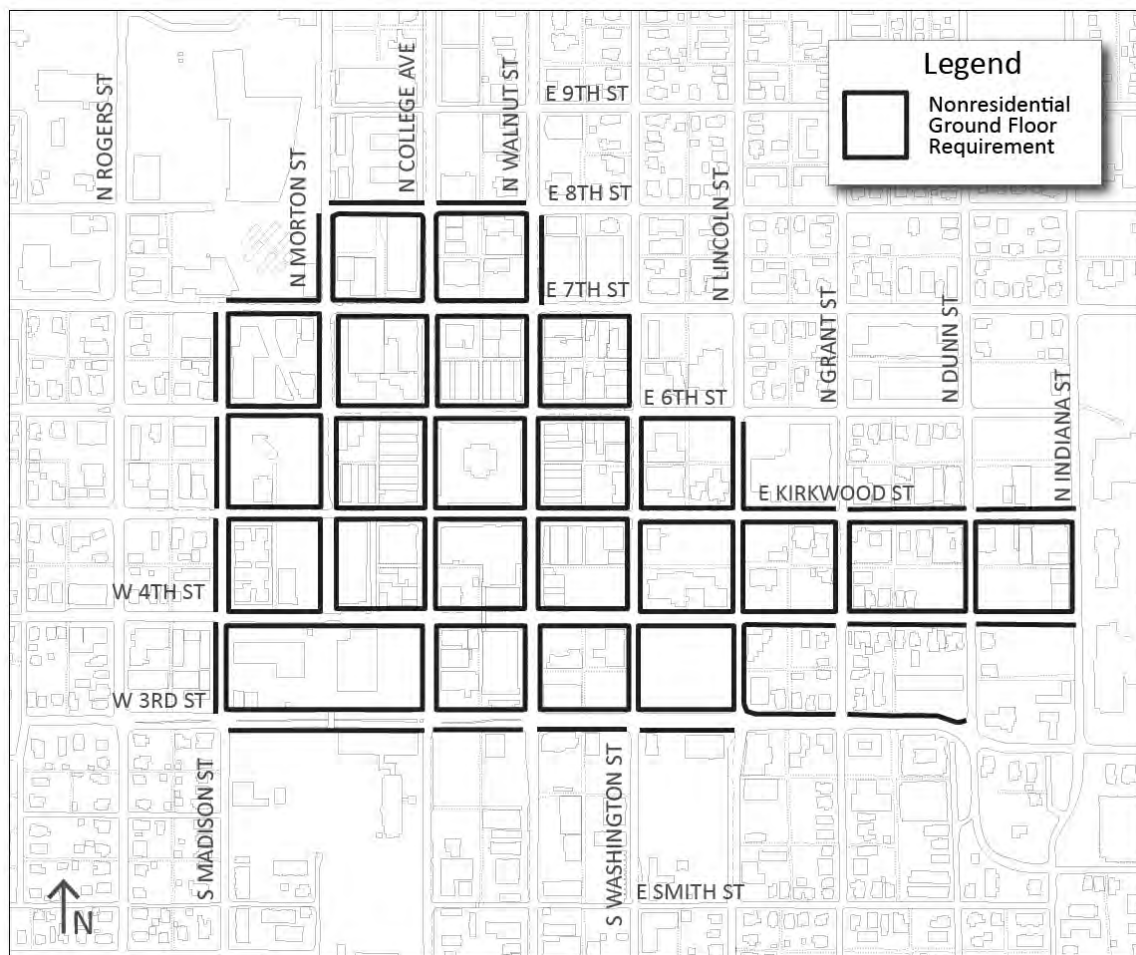


Figure 48: Downtown Nonresidential Ground Floor Requirement

(2) Standardized Businesses

In the MD-CS and MD-UV character areas a standardized business shall require conditional use permit review in accordance with Section 20.06.050(b) (Conditional Use Permit), and shall comply with the following standards:

- (A) The proposed standardized business shall be designed and constructed in a style that visually complements its surroundings, especially the existing buildings on both sides of the same block the business is to be located, as well as the character of the particular overlay district. Visual complementation shall include, but may not be limited to:
 - i. Architecture;
 - ii. Scale;
 - iii. Facade; and
 - iv. Signage.
- (B) If the use is proposed for a site that contains an existing building of special historical, cultural, or architectural significance, with or without official historic designation, the proposed use shall seek to preserve and reuse as much of the existing building as possible, particularly the building's facade.
- (C) Visual complementation may also include interior décor. Elements of interior décor such as displays of public art, photos or memorabilia of Bloomington or Indiana University, may be considered.

(3) Allowed Use Table Modifications

The lists of Permitted, Conditional, Accessory, Conditional Accessory, and Temporary uses listed in Table 3-1 (Allowed Use Table) are modified as follows.

(A) Courthouse Square Character Area

The following uses are prohibited in the Courthouse Square Character Area: Assisted living facility, vehicle fuel station, and medical clinic.

(B) Downtown Core Character Area

The following use is prohibited in the Downtown Core Character Area: Vehicle fuel station.

(C) University Village Character Area

- i. The following use is prohibited in the University Village Character Area: Vehicle fuel station.
- ii. The following uses are prohibited in the Restaurant Row area: Assisted living facility; financial institution; personal services (except in spaces of 700 square feet or less); community center; adult or child day-care center; hotel/motel; liquor or tobacco sales; club or lodge; medical clinic; park; pawn shop; pet grooming; public or private school; trade or business school; tattoo or piercing parlor; transportation terminal; utility substation and transmission facility; and veterinary clinic.

(D) Showers Technology Character Area

The following uses are prohibited in the Showers Technology Character Area: Assisted living facility; personal services; vehicle fuel station; liquor or tobacco sales; club or lodge; pawn shop; and place of worship.

(f) Historic Adaptive Re-Use

Any adaptive re-use, protection, or restoration of a historic resource for a land use not specifically permitted in the zoning district pursuant to Table 03-1: Allowed Use Table, shall be subject to conditional use review pursuant to Section 20.06.050(b)(3)(E)iii) (Historic Adaptive Re-Use).

(g) Quarry Adaptive Re-Use

Any adaptive re-use of a former quarry site not specifically permitted in the zoning district pursuant to Table 03-1: Allowed Use Table, shall be subject to conditional use review pursuant to Section 20.06.050(b)(3)(E)iv) (Quarry Adaptive Re-Use).

(h) Required Licenses, Permits, and Operational Rules

- (1) All uses required by any unit of local, state, or federal government to have an approval, license, or permit to operate are required to have that local, state, or federal approval, license, or permit in effect at all times, and failure to do so is a violation of this UDO.
- (2) All uses subject to the operational standards of a local, state, or federal government agency, including without limitation the regulations contained in the Bloomington Municipal Code, and regulations of the Indiana Department of Health and Human Services, shall operate in compliance with those standards and regulations at all times, and failure to do so is a violation of this UDO.

20.03.020 Allowed Use Table

Table 03-1: Allowed Use Table

P = permitted use, C = conditional use permit, A = accessory use, T = temporary use, Uses with an * = use-specific standards apply
Additional uses may be permitted, prohibited, or require conditional use approval in Downtown Character Overlays pursuant to Section 20.03.010(e).

Use	Residential							Mixed-Use								Non-Residential		Use-Specific Standards
	R1	R2	R3	R4	RM	RH	RMH	MS	MN	MM	MC	ME	MI	MD	MH	EM	PO	
RESIDENTIAL USES																		
Household Living																		
Dwelling, single-family (detached)	P	P	P	P	P*	P*	P	P	P	P*	P*	P*			P*			20.03.030(b)(1)
Dwelling, single-family (attached)		P*	P*	P*	P*	P*		P*	P*	P*				P*				20.03.030(b)(2)
Dwelling, duplex	C*	C*	C*	P*	P*	P*		P*	P*	P*	C*			P*				20.03.030(b)(3)
Dwelling, triplex				C*	P*	P*		P*	P*	P*	C*			P*				20.03.030(b)(4)
Dwelling, fourplex				C*	P*	P*		P*	P*	P*	P*			P*				20.03.030(b)(4)
Dwelling, multifamily				C*	P	P		P	P*	P*	P	P*	C	P*				20.03.030(b)(5)
Dwelling, live/work				C*	P*	P*			P*	P*	P*			P*				20.03.030(b)(6)
Dwelling, cottage development	C*	C*	C*	C*	C*	C*	C*		C*									20.03.030(b)(7)
Dwelling, mobile home							P*											20.03.030(b)(8)
Manufactured home park							P*											20.03.030(b)(9)
Group Living																		
Assisted living facility				C	P	P			C	P	P		P	P	P			
Continuing care retirement facility				C	P	P			C	P	P		P	P	P			
Fraternity or sorority house								P*					P*					20.03.030(b)(10)
Group care home, FHAA small	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*		P*		P*			20.03.030(b)(11)
Group care home, FHAA large				P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*			20.03.030(b)(11)
Nursing or convalescent home				C	P	P			C	P	P	P	P	P	P			
Opioid rehabilitation home, small	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*		P*		P*			20.03.030(b)(11)
Opioid rehabilitation home, large				P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*			20.03.030(b)(11)
Residential rooming house					P*	P*		P	P*	P	P	C*						20.03.030(b)(12)
Student housing or dormitory					C*	P*		P*	C*	P*	P*		P*	C*				20.03.030(b)(13)
Supportive housing, small						C			C	C	C		C	C	C			
Supportive housing, large										C	C		C	C	C			
PUBLIC, INSTITUTIONAL, AND CIVIC USES																		
Community and Cultural Facilities																		
Art gallery, museum, or library				C*	C	C			P	P	P		P	P				20.03.030(c)(1)

Table 03-1: Allowed Use Table

P = permitted use, C = conditional use permit, A = accessory use, T = temporary use, Uses with an * = use-specific standards apply

Additional uses may be permitted, prohibited, or require conditional use approval in Downtown Character Overlays pursuant to Section 20.03.010(e).

Use	Residential							Mixed-Use							Non-Residential		Use-Specific Standards	
	R1	R2	R3	R4	RM	RH	RMH	MS	MN	MM	MC	ME	MI	MD	MH	EM		PO
Cemetery or mausoleum													P					
Club or lodge										P	P			P				
Community center		C	C	C	P*	P*			P	P	P		P	P				20.03.030(c)(2)
Conference or convention center											P	P	P	P				
Crematory											C		C			C		
Day-care center, adult or child	A*	A*	A*	A*	C*	C*	C*	P*	P*	P*	P*	C*	C*	P*	P*	A*		20.03.030(c)(3)
Government service facility										P	P	P	P	P		P		
Jail or detention facility													C*			C*		20.03.030(c)(4)
Meeting, banquet, or event facility										P	P	P	P	P				
Mortuary										P	P		P					
Park	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Place of worship	C	C	C	C	C	C	C	C	C	P	P	C	P	P	C			
Police, fire, or rescue station	C	C	C	C	C	C	C	C	C	P	P	P	P	P	P	P		
Urban agriculture, noncommercial	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*		20.03.030(c)(5)
Educational Facilities																		
School, college or university											C	C	P					
School, public or private	C*	C*	C*	C*	C*	C*	C*	C*	C*	P*	P*	C*	P*	P*				20.03.030(c)(6)
School, trade or business										P	P	P	P	P		P		
Healthcare Facilities																		
Hospital													C		C			
Medical clinic									P	P	P	P	P	P	P			
Methadone treatment facility											P*		C*		C*			20.03.030(c)(7)
Opioid rehabilitation facility										C*	C*	C*		C*	C*			20.03.030(c)(7)
COMMERCIAL USES																		
Agricultural and Animal Uses																		
Crops and pasturage	P*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*		A*	A*			20.03.030(d)(1)
Kennel											C*					C*		20.03.030(d)(2)
Orchard or tree farm, commercial	P	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	P		20.03.030(d)(3)
Pet grooming									P*	P*	P*			P*		P*		20.03.030(d)(4)
Plant nursery or greenhouse, commercial	C									P	P	P						
Veterinarian clinic									C*	P*	P*			P*				20.03.030(d)(4)

Table 03-1: Allowed Use Table

P = permitted use, C = conditional use permit, A = accessory use, T = temporary use, Uses with an *= use-specific standards apply
Additional uses may be permitted, prohibited, or require conditional use approval in Downtown Character Overlays pursuant to Section 20.03.010(e).

Use	Residential							Mixed-Use								Non-Residential		Use-Specific Standards
	R1	R2	R3	R4	RM	RH	RMH	MS	MN	MM	MC	ME	MI	MD	MH	EM	PO	
Entertainment and Recreation																		
Amenity center	P*	P*	P*	P*	P	P	P	A	P	P	P	P	P	P				20.03.030(d)(5)
Country club	C										P							
Recreation, indoor			P*	P*	P*	P*		A	C	P	P			P				20.03.030(d)(6)
Recreation, outdoor	C										C	P	P			C		
Sexually oriented business										C*	P*					P*		20.03.030(d)(7)
Stadium													C					
Food, Beverage, and Lodging																		
Bar or dance club								P		P	P			P				
Bed and breakfast	C*	C*	C*	C*	C*	P			P	P	P			P				20.03.030(d)(8)
Brewpub, distillery, or winery								P*	P*	P*	P*	P*		P*		P*		20.03.030(d)(9)
Hotel or motel								P			P	C		P				
Restaurant					C*	C*		P	P	P	P	P*	A	P	A	A		20.03.030(d)(10)
Office, Business, and Professional Services																		
Artist studio or workshop	A*	A*	A*	A*	P	P			P	P	P	C	C	P				20.03.030(d)(11)
Check cashing										C	C							
Financial institution								P		P	P	C		P		A		
Fitness center, small					A	A		P	P	P	P	A	A	P	A	A		
Fitness center, large								P	P	P	P			P	A			
Office									P	P	P	P	P	P	P*	P		20.03.030(d)(12)
Personal service, small					A	A		P	P	P	P	P	C	P				
Personal service, large								C	C	P	P	P		P				
Tattoo or piercing parlor										P	P			P				
Retail Sales																		
Building supply store										P	P					P		
Firearm Sales										P	P	P						
Grocery or supermarket					A	A		P	P	P	P	P		P				
Liquor or tobacco sales										P	P			P				
Pawn shop										P	P			P				
Retail sales, small					C	C		P	P	P	P	P		P				
Retail sales, medium								P		P	P	P		P				
Retail sales, large											P			P				
Retail sales, big box											P					P		
Vehicles and Equipment																		
Equipment sales or rental									P*	P*	P*			P*		P*		20.03.030(d)(13)

Table 03-1: Allowed Use Table

P = permitted use, C = conditional use permit, A = accessory use, T = temporary use, Uses with an * = use-specific standards apply

Additional uses may be permitted, prohibited, or require conditional use approval in Downtown Character Overlays pursuant to Section 20.03.010(e).

Use	Residential							Mixed-Use								Non-Residential		Use-Specific Standards
	R1	R2	R3	R4	RM	RH	RMH	MS	MN	MM	MC	ME	MI	MD	MH	EM	PO	
Transportation terminal										P	P		P	P		P		
Vehicle fleet operations, small										P	P					P		
Vehicle fleet operations, large											P					P		
Vehicle fuel station										P*	P*	P*		P*		P*		20.03.030(d)(14)
Vehicle impound storage																P*		20.03.030(d)(15)
Vehicle parking garage					A	A		A		P	P	P	A	P*	C			20.03.030(d)(16)
Vehicle repair, major											P*					P*		20.03.030(d)(17)
Vehicle repair, minor									C*	P*	P*			P*				20.03.030(d)(17)
Vehicle sales or rental										P	P	P						
Vehicle wash										P*	P*					P*		20.03.030(d)(18)
EMPLOYMENT USES																		
Manufacturing and Processing																		
Commercial laundry										P	P					P		
Food production or processing										C	C	C				C		
Manufacturing, artisan									P	P	P	C		P		P		
Manufacturing, light												P		C		P		
Manufacturing, heavy																C		
Salvage or scrap yard																C		
Storage, Distribution, or Warehousing																		
Bottled gas storage or distribution																P		
Contractor's yard											P	C				P		
Distribution, warehouse, or wholesale facility											C	C				P		
Storage, outdoor														P*		P*	A*	20.03.030(e)(1)
Storage, self-service								A*	C*	P*	P*	P*	A*	P*		P*		20.03.030(e)(2)
Resource and Extraction																		
Gravel, cement, or sand production																C*		20.03.030(e)(3)
Quarry																C*		20.03.030(e)(3)
Stone processing																P		
UTILITIES AND COMMUNICATION																		
Communication facility	C*										C*	C*	P	C*	C*	P		20.03.030(f)(1)
Solar collector, ground- or building-mounted	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	P		20.03.030(f)(2)

Table 03-1: Allowed Use Table

P = permitted use, C = conditional use permit, A = accessory use, T = temporary use, Uses with an * = use-specific standards apply

Additional uses may be permitted, prohibited, or require conditional use approval in Downtown Character Overlays pursuant to Section 20.03.010(e).

Use	Residential							Mixed-Use								Non-Residential		Use-Specific Standards
	R1	R2	R3	R4	RM	RH	RMH	MS	MN	MM	MC	ME	MI	MD	MH	EM	PO	
Utility substation and transmission facility	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*	P*		20.03.030(f)(3)
Wind energy system, large												P*				P*		20.03.030(f)(4)
Wind energy system, small	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	P*	P*	20.03.030(f)(5)
ACCESSORY USES																		20.03.030(g)(1)
Chicken flock	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*		P*	20.03.030(g)(2)
Detached garage	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*								20.03.030(g)(3)
Drive-through										A*	A							20.03.030(g)(4)
Dwelling, accessory unit	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*		A*	A*			20.03.030(g)(5)
Electric vehicle charging facility	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Greenhouse, noncommercial	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Home occupation	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*			20.03.030(g)(6)
Outdoor retail and display									T*	T*	T*			T*		A*		20.03.030(g)(7)
Outdoor trash and recyclables receptacles					A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*		20.03.030(g)(8)
Recycling drop-off, self-serve					A	A		A	A	A	A	A	A	A	A	A		
Swimming pool	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	A*	20.03.030(g)(9)
TEMPORARY USES																		20.03.030(h)(1)
Book buyback								T*	T*	T*	T*		T*	T*				20.03.030(h)(2)
Construction support activities	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	20.03.030(h)(3)
Farm produce sales	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*			20.03.030(h)(4)
Real estate sales or model home	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*		20.03.030(h)(5)
Seasonal sales								T*	T*	T*	T*	T*	T*	T*	T*			20.03.030(h)(6)
Special event	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*	T*		T*	23.03.030(h)(7)

20.03.030 Use-Specific Standards

(a) Generally

- The Use-Specific Standards listed in this Section 20.03.030 apply to those uses listed on the same line of Table 3-1, regardless of whether those uses are shown as Permitted, Conditional, Conditional Accessory, Accessory, or Temporary uses. These Use-Specific standards cannot be modified through the Conditional Use approval process in Section 20.06.050(b) (Conditional Use Permit), but relief may be granted through the Variance process in Section 20.06.080(b) (Variance).

- (2) Any of the uses listed as Household Living uses in Table 03-1: *Allowed Use Table*, may be organized as cooperative housing, but shall be a permitted use or a conditional use only in those zoning districts where another Household Living use with the same layout and number of units would be allowed as a permitted use or conditional use, and shall be subject to those use-specific standards applicable to such Household Living use with the same layout and number of units. For example, a cooperative housing facility that meets the definition of “dwelling, multifamily” in terms of layout and number of units is a permitted use available only in those zoning districts where a “dwelling, multifamily” is a permitted use in Table 03-1: *Allowed Use Table*, and is a conditional use available only in those zoning districts where a “Dwelling, multifamily,” is listed as a conditional use in Table 03-1: *Allowed Use Table*, and is subject to those Use-specific standards applicable to a “dwelling, multifamily” in Section 20.03.030(b)(5).

(b) Residential Uses

(1) Dwelling, Single-Family (Detached)

- (A) In the RM, RH, MN, MM, MC, ME, and MH zoning districts, single-family detached dwelling units shall be permitted only on lots of record lawfully established before February 12, 2007.
- (B) Any legally established single-family dwelling that was established prior to the effective date of this UDO shall not be made non-conforming by adoption of this UDO.
- (C) Occupancy of a single-family detached dwelling unit is subject to the definition of “family” in Chapter 20.07: (Definitions).

(2) Dwelling, Single-Family (Attached)

(A) Access

- i. Each individual dwelling unit shall have a separate entrance facing the street frontage to which the building address is assigned. Buildings on corner lots may have entrances facing either street frontage.
- ii. Each dwelling shall have direct access to a street or alley.

(B) Design

In the R2 and R3 zoning districts, the maximum number of dwelling units allowed in one single-family attached structure shall be two, and each individual dwelling unit shall be located on a separate lot.

(C) Occupancy

Occupancy of single-family attached dwelling units is subject to the definition of “Family” in Chapter 20.07: (Definitions).

(3) Dwelling, Duplex

(A) Generally

- i. The property owner (or HAND registered agent) shall have no Notices of Violation on file in the Planning and Transportation Department for the prior three years at application.

(B) Occupancy

Occupancy of each dwelling unit in a duplex dwelling is subject to the definition of "Family" in Chapter 20.07: (Definitions).

(C) Design

In the R1, R2, R3, and R4 zoning districts the following shall apply:

- i. Each unit in a newly constructed duplex dwelling shall have a separate exterior entrance facing a public or private street. Duplex dwellings created through renovation or expansion of existing structures shall have a least one exterior entrance facing a public or private street.
- ii. The following design elements of the duplex dwelling shall be similar in general shape, size, and design with the majority of existing single-family or duplex structures on the same block face on which it is located:
 1. Roof pitch;
 2. Front porch width and depth;
 3. Front building setback; and
 4. Vehicle parking access (i.e., front-, side-, or rear-access garage or parking area).
- iii. No duplex dwelling structure shall contain more than six bedrooms total.
- iv. Each individual dwelling unit shall have separate utility meters.

(D) Approval

In the R1, R2, and R3 zoning districts, upon Conditional Use approval, a 150 foot buffer shall be created around the approved duplex dwelling. No newly created or expanded (through addition or habitable space) duplex dwellings shall be allowed in said buffer in the R1, R2, and R3 zoning districts for a period of 2 years after the date of the Conditional Use approval. For purposes of this section, the 150 feet shall be measured from the property lines of the parcel receiving approval.

(E) Maximum Number

In the R1, R2, and R3 zoning districts, the BZA shall approve a maximum of 15 duplex dwellings (newly created or expanded through addition or habitable space) per calendar year.

(4) Dwelling, Triplex and Fourplex**(A) Generally**

- i. The property owner (or HAND registered agent) shall have no Notices of Violation on file in the Planning and Transportation Department for the prior three years at the time of Conditional Use application.

(B) Occupancy

Occupancy of each unit in a triplex and fourplex dwelling is subject to the definition of "Family" in Chapter 20.07: (Definitions).

(C) Design

- i. Triplex and fourplex dwellings shall have a minimum of one exterior entrance and no more than two exterior entrances facing a public or private street.
- ii. The following design elements of the triplex or fourplex dwelling shall be similar in general size, shape, and design with the majority of existing structures on the same block face on which it is located:
 - 1. Roof pitch;
 - 2. Front porch width and depth;
 - 3. Front building setback; and
 - 4. Vehicle parking access (i.e., front-, side-, or rear-access garage or parking area).
- iii. In the R4 zoning district, no triplex dwelling structure shall contain more than nine bedrooms total, and no fourplex dwelling structure shall contain more than 12 bedrooms total.
- iv. Each individual dwelling unit shall have separate utility meters.

(5) Dwelling, Multifamily**(A) Ground Floor Parking**

Any portions within the ground floor of a structure used for vehicular parking shall be located at least 20 feet behind the building facade facing a public street. If there are multiple primary buildings on a site, this requirement only applies to the building closest to a public street.

(B) Size

In the MN and R4 zoning districts, no more than eight multifamily or student housing or dormitory dwelling units shall be constructed on one single lot or parcel.

(C) Building Floor Plate

Buildings with more than 20 dwelling units cannot have a floor plate larger than 10,000 square feet. Buildings that utilize either the affordable housing or sustainable incentive shall be allowed a maximum of 15,000 square feet per qualified building. Buildings that utilize both the affordable housing and sustainable incentives shall be allowed a maximum of 30,000 square feet per qualified building.

(D) Ground Floor Units

- i. Ground floor dwelling units shall be prohibited in the MD-ST (Showers Technology) and MD-CS (Courthouse Square) Downtown Character Overlays, and the ME zoning district.
- ii. In the MD zoning district, each dwelling unit located on the ground floor shall be located at least 20 feet behind each building facade facing a public street.

(6) Dwelling, Live/Work

- (A) The residential unit shall be located above or behind the nonresidential areas of the structure.
- (B) The residential living space shall be occupied by the owner of the commercial or manufacturing activity or the owner's employee, including that person's household.
- (C) The resident owner or employee is responsible for the commercial or manufacturing activity performed.

- (D) In the R4, RM, and RH zoning districts, the commercial activity area shall not exceed 50 percent of the gross floor area of the unit.
- (E) Signs are limited to not more than two internally illuminated wall or window signs not exceeding 10 square feet in total area.
- (F) The work activities shall not adversely impact the public health, safety, or welfare of adjacent properties.

(7) Dwelling, Cottage Development

(A) Ownership

Individual cottage lots or portions of the project may not be subdivided for sale.

(B) Bulk and Density Standards

Table 03-2: Cottage Development Bulk and Density Standards

Zoning District	Maximum Density (dwelling units/acre)	Minimum Project Size	Maximum Project Size
R1	3	1 acre	2 acres
R2	5		
R3	6		
R4	11		
RM	15	1 acre	5 acres
RH	20		
RMH	20		
MN	15		

(C) Setbacks

i. Parking lot

Minimum of 30 feet from the right-of-way.

ii. Minimum Dwelling Separation

Minimum of 10 feet between dwelling units.

iii. Building Setbacks

All other setbacks for the project site (not individual units) shall comply with those applicable in the underlying zoning district.

iv. R3 Zoning District

Cottage developments within the R3 zoning district shall include a minimum of one dwelling unit that is built at the build-to-line.

(D) Central Open Space

Each cottage development shall include at least one centrally located open space area of at least 400 square feet per dwelling unit. Parking areas cannot be counted toward this open space requirement.

(E) Parking and Access

- i. Parking shall be designed to limit curb cuts and most efficiently park vehicles.
- ii. Parking may take place on a shared, paved parking lot or in shared driveways.
- iii. Shared driveways may access individual garages.
- iv. Project perimeter sidewalks are required, and internal walkways shall connect each cottage unit to the project perimeter sidewalks.

(F) Landscaping and Buffering

- i. All cottage developments shall install a bufferyard type 1 along rear and side lot lines per Section 20.04.080 (Landscaping, Buffering, and Fences).
- ii. Parking lot landscaping shall be provided per the requirements of Section 20.04.060 (Parking and Loading).

(G) Architecture

- i. All structures shall meet the design standards applicable to single-family homes in the zoning district where the property is located.
- ii. Dwelling units shall have a maximum 1:3 width to depth ratio for the first floor.

(8) Dwelling, Mobile Home

All mobile homes shall be installed on a permanent foundation and have perimeter skirting.

(9) Manufactured Home Park**(A) Entrance and Drive**

Manufactured or mobile home parks with 20 or more dwelling sites shall comply with the following standards.

- i. At least two access points for ingress to and egress from the park shall be provided.
- ii. Individual dwelling sites shall only have driveways providing access to interior streets.
- iii. Each new driveway apron onto a street shall be surfaced with concrete.
- iv. Enlargement or modification of any existing driveway shall require the driveway apron to be surfaced with concrete.

(B) Parking**i. Location**

Required parking shall be located on each dwelling site.

ii. Surface Material

- 1. Parking spaces shall utilize a dustless, hard surface of concrete, asphalt, brick pavers, or a similar durable surface approved by the Planning and Transportation Director.
- 2. Crushed stone, stone, rock, dirt, sand, or grass shall not be permitted as a parking surface.

(C) Accessory Structures**i. Generally**

Management offices, sales offices, storage, laundry, and other structures customarily accessory to manufactured home parks or mobile home parks are permitted, provided that:

1. The accessory structure is located, designed, and intended to serve only the needs of the park; and
2. The establishments located within the accessory structure present no visible evidence of their business nature to areas outside the park.

ii. Maximum Number

Each manufactured home or mobile home is allowed no more than one accessory structure in addition to a carport or garage.

iii. Maximum Cumulative Area

The total area of all accessory structures, including the area of detached or attached garages or carports, shall not exceed 10 percent of the dwelling site.

(D) Infrastructure

Infrastructure shall be installed in accordance with Indiana Code 16-41-27-1 et seq., Rule 410 IAC 6-6 and their subsequent amendments, the State Board of Health requirements, and the requirements of this UDO.

(10) Fraternity or Sorority House

(11) Group Care Home, FHAA (Small and Large) & Opioid Rehabilitation Home, (Small and Large)

- (A) Group homes for the exclusive use of citizens protected by the provisions of the federal Fair Housing Act Amendments of 1988 (FHAA), as defined in that Act and interpreted by the courts, or by any similar legislation of the State of Indiana, may be established in any Residential zoning district or portion of a Mixed-Use zoning district or PD district that permits residential dwellings, provided that they meet the definition of "small" and "large" facilities in Chapter 20.07: Definitions) and are located in zoning districts where facilities of that size are allowed pursuant to Table 3-1, and subject to the licensing requirements of the state and the City of Bloomington.
- (B) In the MN and R4 zoning districts, group homes shall not be designed for or occupied by more than 20 residents living together.
- (C) No Group Care Home shall be located within 300 feet of any other Group Care Home.
- (D) No Opioid Rehabilitation Home shall be located within 300 feet of any other Opioid Rehabilitation Home.
- (E) Where minimum spacing is required by subsections (C) and (D) above, the distance shall be measured from the nearest property line of the property from which spacing is required to the nearest property line on which the group home will be located, using a straight line, without regard to intervening structures or public rights-of-way.

(12) Residential Rooming House

- (A) In the RM, RH, and MN Districts, the owner of the property must occupy the rooming house as their primary residence. No residential rooming house shall contain more than four bedrooms, not including the living space occupied by the residential rooming house owner.
- (B) No bedroom occupied by a person other than the residential rooming house owner shall be rented for a period of less than 30 consecutive days.

(13) Student Housing or Dormitory**(A) Ground Floor Parking**

All portions within the ground floor of a structure used for vehicular parking shall be located at least 20 feet behind the building facade facing a public street. If there are multiple primary buildings on a site, this requirement only applies to the building closest to a public street.

(B) Location

In the RM, RH, MN, MM, MC, and MI zoning districts, each student housing or dormitory use shall be separated from any other student housing or dormitory use.

- i. By at least 900 feet, as measured between the closest points on the two lots containing the student housing or dormitory uses, and
- ii. By at least 900 feet, as measured between the closest points of two or more residential or mixed use structures within one lot containing the student housing or dormitory use.

However, if either the affordable housing incentive codified at Section 20.04.110(c) or the sustainable development incentive codified at Section 20.04.110(d) has been earned, only the requirements of 20.03.030(b)(13)(B)(i) apply to each student housing or dormitory use in the RM, RH, MN, MM, MC, and MI zoning districts. If both the affordable housing incentive codified at Section 20.04.110(c) and the sustainable development incentive codified at Section 20.04.110(d), the separation requirements of this section do not apply to each student housing or dormitory use in the RM, RH, MN, MM, MC, and MI zoning districts

(C) Building Floor Plate

- i. In the MN zoning district, the maximum building floor plate for a student housing or dormitory use shall be 2,000 square feet per building, pursuant to the measurement standards in Section 20.04.020(g) (Building Floor Plate). However if either the affordable housing incentive codified at Section 20.04.110(c) or the sustainable development incentive codified at Section 20.04.110(d) has been earned, the maximum building floor plate for a student housing or dormitory use in the MN zoning district shall be 3,000 square feet per building, pursuant to the measurement standards in Section 20.04.020(g). If both the affordable housing incentive codified at Section 20.04.110(c) and the sustainable development incentive codified at Section 20.04.110(d) have been earned, the maximum building floor plate of a student housing or dormitory use shall be 5,000 square feet per building.
- ii. In the RM and MD zoning districts, the maximum building floor plate for a student housing or dormitory use shall be 3,000 square feet per building, pursuant to the measurement standards in Section 20.04.020(g) (Building Floor Plate). However if either the affordable housing incentive codified at Section 20.04.110(c) or the sustainable development incentive codified at Section 20.04.110(d) has been earned, the maximum building floor plate for a student housing or dormitory use in the RM and MD zoning districts shall be 5,000 square feet per building, pursuant to the measurement standards in Section 20.04.020(g). If both the affordable housing incentive codified at Section 20.04.110(c) and the sustainable development incentive codified at Section 20.04.110(d) have been earned, the maximum building floor plate of a student housing or dormitory use shall be 10,000 square feet per building.

- iii. In the RH, MM, MC, and MI zoning districts, the maximum building floor plate for a student housing or dormitory use shall be 5,000 square feet per building, pursuant to the measurement standards in Section 20.04.020(g) (Building Floor Plate). However if either the affordable housing incentive codified at Section 20.04.110(c) or the sustainable development incentive codified at Section 20.04.110(d) has been earned, the maximum building floor plate for a student housing or dormitory use in the RH, MM, MC, and MI zoning districts shall be 8,000 square feet per building, pursuant to the measurement standards in Section 20.04.020(g). If both the affordable housing incentive codified at Section 20.04.110(c) and the sustainable development incentive codified at Section 20.04.110(d) have been earned, the maximum building floor plate of a student housing or dormitory use shall be 20,000 square feet per building.
- iv. In the MS zoning district, the maximum building floor plate for a student housing or dormitory use shall be 10,000 square feet per building, pursuant to the measurement standards in Section 20.04.020(g) (Building Floor Plate). However if either the affordable housing incentive codified at Section 20.04.110(c) or the sustainable development incentive codified at Section 20.04.110(d) has been earned, the maximum building floor plate for a student housing or dormitory use shall be 14,000 square feet per building, pursuant to the measurement standards in Section 20.04.020(g). If both the affordable housing incentive codified at Section 20.04.110(c) and the sustainable development incentive codified at Section 20.04.110(d) have been earned, the maximum building floor shall be 40,000 square feet per building.

(D) Building Height

- i. In the RH zoning district, the maximum building height for a student housing or dormitory use shall be three stories, not to exceed 40 feet, except as necessary to accommodate additional height earned through the affordable housing incentive in Section 20.04.110(c).
- ii. In the MD-DC character area, the maximum building height for a student housing or dormitory use shall not exceed 40 feet.
- iii. In the MD-CS, MD-UV, MD-DE, MD-DG, and MD-ST Downtown Character Overlays, the maximum building height for a student housing or dormitory use shall not exceed 30 feet.

(c) Public, Institutional, and Civic Uses

(1) Art Gallery, Museum, or Library

In the R4 zoning district, art galleries, museums, and libraries shall be limited to 7,000 square feet gross floor area.

(2) Community Center

In the RM and RH zoning districts, community centers shall be a Permitted use when created through renovation of an existing building. If a community center requires new construction or a major addition to an existing structure (greater than 33 percent of the existing gross floor area), then the use shall be subject to a conditional use approval.

(3) Day Care Center, Adult or Child

- (A) When located in a Residential zoning district, an adult or child day care center shall not be located closer than 500 feet to any other adult or child day care center.

- (B) When a license is required by the state, proof of licensing shall be presented with the petition for the conditional use approval. Day care centers exempt from state licensing requirements shall provide proof of exemption.
- (C) The operation of the facility shall not include overnight occupancy by the clients.
- (D) A Level 3 buffer pursuant to Section 20.04.080(g)(3) (Buffer Yard Types), shall be established along the property line(s) separating a day-care center and any single-family detached, duplex, triplex, or fourplex dwellings.

(4) Jail or Detention Facility

- (A) Adequate access shall be provided to a street classified as a collector or arterial per the Transportation Plan.
- (B) The design and intensity of the use, site, and structure shall be compatible with the surrounding area.
- (C) Site design and security measures shall ensure that the peace and safety of the surrounding area shall not be disturbed or impaired

(5) Urban Agriculture, Noncommercial

(A) Structures

- i. Greenhouses and hoop houses are limited to a maximum height of 15 feet, shall be located at least 10 feet from any lot line and may not cover more than 25 percent of the property.
- ii. Cold frames are limited to a maximum height of four feet and shall be located at least 10 feet from any lot line.
- iii. Agricultural stands are limited to a maximum height of 12 feet and shall be located at least 10 feet from any abutting lot with an occupied residential use.
- iv. Fences intended exclusively to protect food garden plots from animals shall not be more than 12 feet in height. The portion of the fence that exceeds five feet in height shall, by the use of voids and solids via latticework or other similar techniques, be of open construction. This portion of the fence shall be constructed of materials widely accepted in the fence industry for garden protection.

(B) Operational Standards

- i. Retail sales shall be prohibited on the noncommercial urban agriculture site, except for the sale of produce grown on that site. Such sales shall be in compliance with Section 20.03.030(h)(4) (Farm Produce Sales).
- ii. The site drainage and maintenance shall prevent water and fertilizer from draining onto adjacent property that is not part of the contiguous land in the urban agricultural use.
- iii. Compost piles shall not exceed six feet in height. Refuse and compost area shall be enclosed at ground level to be rodent-resistant.
- iv. No outdoor work activity that involves power equipment or generators may occur between sunset and sunrise.

(C) Soil Quality

Food products may be sold if grown in soil native to the site if the applicant can provide documentation to the City that the following standards are satisfied:

- i. A composite sample of the native soil, consisting of no less than five individual samples, has been tested for lead content and the lead content in the soil is determined to be at or below the residential screening levels for soil exposure, direct-contact for lead established by the Indiana Department of Environmental Management; and either:
 - 1. Proof through maps, deeds, prior permits or a combination of those sources that the site has only been used for residential or agricultural activities in the past; or
 - 2. A composite sample of the native soil, consisting of no less than five individual samples, has been tested for metal content using the US EPA 3050B, 3051, or a comparable method and that the metals arsenic, cadmium, mercury, molybdenum, nickel, selenium, and zinc are determined to be at or below the residential screening levels for soil exposure, direct-contact established by the Indiana Department of Environmental Management.
- ii. If metal content in soil exceeds established thresholds, food products may only be grown in raised beds filled with clean topsoil.
- iii. As an alternative to meeting the standards in (i) or (ii) above, food products may be grown in clean soil brought to the site without completing a soil test of the soil native to the site.

(6) School, Public or Private

- (A) Each public or private high school shall be located on a site with direct access to an arterial or collector street.
- (B) Each public or private elementary or middle school located on a site adjacent to an arterial or collector street shall provide an automobile pick-up/drop-off area adequate to protect student safety with access from either a collector or local street, and shall provide a direct pedestrian connection to at least one local street adjacent to the site.

(7) Methadone Treatment Facility or Opioid Rehabilitation Facility

- (A) Each clinic or facility shall be at least 1,000 feet from the nearest property line of a lot containing a primary use that falls under the Household Living category, Group Living category, a Place of Worship, or a Public or Private School;
- (B) Each clinic or facility shall include a waiting and departure lounge sufficient in size to accommodate all scheduled patrons, which shall be open to patrons at least one hour before and after any official business is to be conducted. Such areas shall include restroom facilities that shall be open at least one hour prior to the beginning of scheduled services.

(d) Commercial Uses

(1) Crops and Pasturage

(A) Generally

- i. Except in the R1 zoning district, this use shall be accessory to a principal use on the same lot or parcel.
- ii. Land with a slope in excess of 15 percent shall not be considered in determining the total pasture size and shall not be used for pasture purposes.
- iii. All outside pens, exercise areas, and pastures shall be fenced.

(B) Location

- i. Structures containing large or medium livestock or any structures containing livestock waste (except chicken coops) shall meet the following minimum setbacks:
 - 1. Front setback: 75 feet;
 - 2. Side setback: 50 feet;
 - 3. Rear Setback: 75 feet.
- ii. Structures containing small livestock shall meet the following minimum setbacks:
 - 1. Front setback: 35 feet;
 - 2. Side setback: 15 feet;
 - 3. Rear Setback: 25 feet.

(C) Number of Livestock

- i. Domesticated livestock are permitted in accordance with the requirements indicated in Table 03-3 below, unless otherwise prohibited or limited by this UDO or other regulation.
- ii. The maximum number of livestock per acre shall be cumulative between the categories of domesticated animals.

Table 03-3: Number of Animals Allowed

Animal Type	Area Required (minimum)	Livestock per Acre (maximum)
Large Livestock	1 acre of pasturage	1 per acre of pasturage
Medium Livestock	0.5 acres of pasturage	1 per 0.5 acre of pasturage
Small Livestock	Lot size equals district minimum	2 per minimum area required

(2) Kennel

- (A) The parts of a building where animals are boarded shall be fully enclosed, with solid core doors and no operable windows, and shall be sufficiently insulated so no unreasonable noise or odor can be detected off premises.
- (B) Animals shall not be permitted outside except within a secure animal run, and no outdoor animal run shall be permitted within 200 feet of any adjacent residential district or use, except where the adjoining property is owned or occupied by the operator of the kennel.
- (C) The perimeter of the kennel operation shall be enclosed with an opaque fence that meets the following standards:
 - i. Minimum depth underground: 12 inches.
 - ii. Height: Eight feet from grade.
 - iii. Minimum gauge of chain-link fence: 11
 - iv. Minimum fence setback: 20 feet from any adjoining property line.
 - v. Where a kennel operation abuts a residential land use, a minimum of one evergreen shrub with a mature height of at least 10 feet shall be planted no more than six feet on center along the entire length of the shared property line.

- (D) Prior to establishment, the property owner, or the kennel operator if the operator is not the property owner, shall provide proof of all necessary licenses to the Planning and Transportation Director.
 - (E) A plan for management of animal wastes shall be submitted with the conditional use petition.
- (3) **Orchard or Tree Farm, Commercial**
Commercial orchards and/or tree farms shall be limited to 25 percent of the lot area when allowed as an accessory use.
- (4) **Pet Grooming and Veterinarian Clinic**
If a pet grooming or veterinarian clinic has a kennel associated with it, then it shall comply with Section 20.03.030(d)(2) and the following standards:
- (A) In the MN, MM, and MD zoning districts, outdoor kennel facilities are not permitted.
 - (B) In the MC zoning district, outdoor kennels shall require a conditional use permit pursuant to Section 20.06.050(b) (Conditional Use Permit).
- (5) **Amenity Center**
In the R1, R2, R3, and R4 zoning districts, an amenity center shall not be established on a lot or parcel larger than one acre. The amenity center shall not exceed 5,000 square feet of gross floor area.
- (6) **Recreation, Indoor**
In the R3, R4, RM, and RH zoning districts, indoor recreation facilities shall be permitted when created through the renovation of an existing building. If a recreation center requires new construction or a major addition to an existing structure (greater than 33 percent of the existing gross floor area), then the use shall be subject to a conditional use approval.
- (7) **Sexually Oriented Business**
- (A) **Purpose**
Within the city it is acknowledged that there are some uses, often referred to as sexually oriented businesses, which because of their nature can have a negative impact on nearby property, particularly when these sexually oriented businesses are concentrated together or located in direct proximity to places where children congregate including but not limited to: residential uses; child care centers; places of worship; schools; libraries; playgrounds; and/or parks. Special regulations for these sexually oriented businesses are necessary to ensure that these adverse impacts will not contribute to the blighting of surrounding areas. The primary goal of these regulations is to prevent the concentration or location of these uses in a manner that would exacerbate their adverse effects.
 - (B) **Location**
A sexually oriented business shall not be located on a property within 500 feet (measured from the nearest property line of the property from which spacing is required to the nearest wall of the building or tenant space that houses the sexually oriented business use using a straight line, without regard to intervening structures or public rights-of-way) of any of the following:
 - i. Place of Worship;
 - ii. School, Public or Private (preschool, K-12);
 - iii. Day care center, adult or child;

- iv. Park (including publicly owned multiuse trails);
- v. Library;
- vi. R1, R2, R3, R4, or RMH zoning district, including any portion of a Planned Unit Development designated for single-family residential use;
- vii. RM or RH zoning district, including any portion of a Planned Unit Development designated for multifamily residential use; and
- viii. Another Sexually Oriented Business.

(C) PUDs

For the purposes of this section, sexually oriented businesses shall be considered permitted uses in any PUD zoning district created before February 12, 2007, where the underlying zoning is MC, MM, and IN.

(D) Exterior Display

No sexually oriented business shall be conducted in any manner that permits the observation from any right-of-way of material depicting specified sexual activities or specified anatomical areas by display, decoration, sign, show window or other opening.

(8) Bed and Breakfast

- (A) In the R1, R2, R3, R4, and RM zoning districts, this use is limited to single-family detached dwellings.
- (B) In the R1, R2, R3, R4, and RM zoning districts, the maximum number of guest units for any bed and breakfast shall be three. In all other zoning districts, the maximum number of guest units for any bed and breakfast establishment shall be eight.
- (C) The business owner or manager of the bed and breakfast establishment shall be required to reside on the property or on an adjacent property.
- (D) Each guest stay shall be limited to a maximum of 30 consecutive days.
- (E) The exterior design of any exterior modification of the structure or premises shall include facade articulation, and numbers and locations of windows and building entrances on the primary building facade, that are similar to those in the surrounding area and neighborhood.

(9) Brewpub, Distillery, or Winery

- (A) In the MN zoning district, brewpubs, distilleries, or wineries shall not manufacture more than 5,000 barrels of beverage (all beverages combined) annually.
- (B) In the MM, MD, and MC zoning districts, brewpubs, distilleries, or wineries shall not manufacture more than 20,000 barrels of beverage (all beverages combined) annually.
- (C) Brewpubs, distilleries, or wineries shall maintain copies of all reports filed with the bureau of alcohol, tobacco and firearms (ATF) and shall be able to demonstrate, upon request of the city, that they have not exceeded the annual beverage production limit in any 12-month period.
- (D) In the MN, MM, and MC zoning districts, brewpubs, distilleries, or wineries shall maintain at least 15 percent of the gross floor area of the facility or 500 square feet of floor space, whichever is greater, for public use as a tavern, restaurant, or tasting area.
- (E) In the MD zoning district, brewpubs, distilleries, or wineries shall maintain at least 50 percent of the gross floor area of the facility for public use as a tavern, restaurant, or tasting area.

- (F) Brewpubs may ship beverages for consumption at other sites, but only if it is demonstrated that:
 - i. The location and flow of shipping traffic does not impact access by other users; and
 - ii. The proposed shipping routes are designed to accommodate the weight of the delivery vehicles.

(10) Restaurant

- (A) In the RM and RH zoning districts, the restaurant shall contain no more than 2,500 gross square feet of floor area. Such smaller establishments typically include but are not limited to cafes, coffee shops, delis, and small restaurants. In the ME zoning district, the restaurant shall contain no more than 5,000 gross square feet of floor area.
- (B) In the RM and RH zoning districts, structures containing this use shall be similar in appearance to the surrounding buildings with respect to architectural style, roof pitch, color and materials.

(11) Artist Studio or Workshop

In the R1, R2, R3, and R4 zoning districts:

- (A) The artist studio shall be accessory to a residential use.
- (B) No retail activity shall be permitted in association with the artist studio.
- (C) No display of art pieces for public viewing, such as within a gallery, shall be permitted.
- (D) Use of the artist studio shall be limited to the production of art by the resident of the home in which the studio is located.

(12) Office

In the MH zoning district, only office uses performing services related to the medical or health care industries are permitted.

(13) Equipment Sales and Rental

- (A) Outdoor display of equipment for sale or rental shall only be permitted in the MC and EM zoning districts.
- (B) In the MC zoning district, all outdoor display of merchandise shall be contained on an improved surface such as asphalt, concrete, or pavers.
- (C) Any outdoor display area shall not block ADA-accessible parking areas, parking lot access aisles, or sidewalk areas, and shall not reduce the number of parking spaces below any minimum requirement for the use in this UDO.

(14) Vehicle Fuel Station

- (A) In the MM, MD, and ME zoning districts, the use shall be limited to a total of four metered fuel dispenser units. For the purpose of this section, each hose shall count as one fuel dispenser unit.
- (B) In the MM, MD, and ME zoning districts, major overhaul, body and fender work, upholstery, welding and spray painting shall be prohibited as an accessory use of a vehicle fuel station.
- (C) In the MM, MD, MC, and ME zoning districts, all activities other than vehicle fueling shall be conducted within a completely enclosed building.
- (D) In the MM, MD, MC, and ME zoning districts, no outdoor storage of automobile parts, discarded tires, or similar materials shall be permitted.

- (E) Outdoor storage of more than three wrecked or temporarily inoperable vehicles awaiting repairs shall be prohibited.
- (F) All structures including fuel canopies shall be similar in appearance to the surrounding development with respect to architectural style, color, and materials.
- (G) Fuel canopies shall be located to the side or rear of properties to minimize visual impact from public streets.
- (H) At least 50 percent of the total number of dispenser units shall provide alternative fuels including, but not limited to biodiesel, electricity, majority ethanol blend, hydrogen or natural gas.

(15) Vehicle Impound Storage

Vehicle impound storage lots shall be screened with a solid fence or wall at between eight and 10 feet in height and shall provide at least one tree and three shrubs per 10 linear feet of fencing to minimize the visual impact of the use on surrounding properties, public streets, and public open spaces. Required plantings shall be located on the side of the fence closest to abutting properties.

(16) Vehicle Parking Garage

- A. In the MD-CS, MD-DC, MD-UV, MD-DG, and MD-ST Downtown Character Overlays, a freestanding primary use vehicle parking garage, or a parking garage that is attached to but not located within the building envelope of a structure containing another primary use shall require conditional use permit approval pursuant to Section 20.06.050(b) (Conditional Use Permit).
- B. In all districts, if exterior facades of a parking garage structure are not covered with residential or commercial spaces, then the following design elements shall all be included:
 - a. Exterior facades shall utilize a punched-out window design with a minimum of 2' solid space between openings and defined lintels and sills that utilize different finishing material than adjacent facade.
 - b. The building shall be designed so that the presence of parked vehicles is not visible.
 - c. A minimum of one pedestrian entrance with required entrance detailing is required per street frontage.
 - d. A minimum of 25% of each facade facing a public street shall incorporate public art, planter boxes, or similar elements.

(17) Vehicle Repair, Major or Minor

- (A) All major overhaul, body and fender work, upholstery and welding, and spray painting shall be conducted within a completely enclosed building.
- (B) No outdoor storage of automobile parts, discarded tires, or similar materials shall be permitted.
- (C) Outdoor storage of more than three wrecked or temporarily inoperable vehicles awaiting repairs shall be prohibited.

(18) Vehicle Wash

Where a car wash facility is located adjacent to a Residential zoning district, the following restrictions shall apply:

- (A) The hours of operation for automated car wash facilities shall be limited to between 7:00 a.m. and 10:00 p.m.

- (B) Automated audio warnings (e.g., beepers), instructions and other audio recordings associated with the car wash facility are not permitted.

(e) Employment Uses

(1) Storage, Outdoor

(A) Screening

Primary use outdoor storage yards shall be screened with a solid fence or wall at between eight and ten feet in height and shall provide at least one tree and three shrubs per 10 linear feet of fencing to minimize the visual impact of the use on surrounding properties, public streets, and public open spaces. Required plantings shall be located on the side of the fence closest to abutting properties.

(B) Prohibited Storage Materials

In all zoning districts, except for the MI zoning district, outdoor storage of equipment, materials, waste or scrap materials, and pallets is prohibited.

(2) Storage, Self-Service

- (A) All storage shall be kept within an enclosed building, except recreation or other oversized vehicles, which shall be stored only in exterior areas screened from view from any street frontage.
- (B) Only storage of goods and materials are allowed in self-storage rental spaces. The use of storage spaces to conduct or operate a business is prohibited.
- (C) The use of power tools, paint sprayers, or the servicing, repair or fabrication of furniture, boats, trailers, motor vehicles, lawn mowers, appliances, and other similar equipment within a storage unit is prohibited.
- (D) The storage of hazardous materials is prohibited.
- (E) Security fencing shall not include razor wire or barbed wire.
- (F) Where the site is adjacent to a Residential zoning district or a portion of a PUD zoning district designated for single-family residential uses:
 - i. Loading docks are prohibited on the side of the facility facing the residentially zoned land;
 - ii. A permanent screen shall be required along all property boundaries and shall conform to landscaping and screening requirements in Section 20.04.080(m) (Screening);
 - iii. Public access shall only be permitted between 6:00 a.m. and 10:00 p.m.
- (G) All storage shall be contained within a fully enclosed structure that:
 - i. Is at least a two-story structure with a defined use on the upper floor(s) and if storage units are provided on the upper floors, then access to the units shall be from interior hallways.
 - ii. Does not have any garage doors or access doors to any storage unit facing any public street, park, or open space, unless the doors are screened from all visible public streets, parks, and open spaces.

(3) Gravel, Cement, or Sand Production, or Quarry

Each facility shall be screened with a solid fence or wall between eight and 10 feet in height and shall provide at least one tree and three shrubs per 10 linear feet of fencing to minimize the visual impact of the use on surrounding properties, public streets, and public open spaces. Required plantings shall be located on the side of the fence closest to abutting properties.

(f) Utilities and Communication

(1) Communication Facility**(A) Purpose**

These standards are intended to provide sensible and reasonable development standards that comply with the requirements of state and federal law for public and private telecommunication service and to:

- i. Maximize the use of any communication facilities in order to reduce the total number of facilities needed to serve the communications needs of the area;
- ii. Minimize the adverse, undesirable visual effects of communication facilities; and
- iii. Provide for the reasonable location of communication facilities in the city.

(B) Compliance with State Law**i. Eligible Petitioners**

All communication facilities shall comply with the standards of Indiana Code § 8-1-32.3-19.

ii. New Communication Facilities

Petitions for new communication facilities shall comply with the standards of Indiana Code § 8-1-32.3-20.

iii. Modifications to Existing Communication Facilities

Modifications of existing antennas, communication towers and communication equipment shall comply with Indiana Code § 8-1-32.3-21.

(C) Co-Location

If co-location is not possible, a sworn statement shall be submitted documenting why co-location on an existing communication tower cannot meet the petitioner's requirements. Such statement must demonstrate that co-location of communication facilities on an existing communication tower is not a viable option because co-location:

- i. Would not result in the same communication service, functionality, coverage, and capacity;
- ii. Is technically infeasible; or
- iii. Is an economic burden to the petitioner.

(D) Construction Requirements

All antennas, communication towers, accessory structures and any other wiring shall comply with the following requirements:

- i. All applicable provisions of this UDO and of the Indiana Building Code, as amended, and the Federal Communications Commission (FCC) when applicable.

- ii. All communication towers and communication equipment shall be certified by a qualified and licensed professional engineer to conform to the latest structural standards and wind loading requirements of the International Building Code, as amended, and The Electronics Industry Association.
- iii. With the exception of necessary electric and telephone service and connection lines approved by the Board of Zoning Appeals, no part of any communication equipment or communication tower nor any lines, cables, equipment or wires or braces in connection with either shall at any time extend across or over any part of a right-of-way, public street, highway, sidewalk, trail, or property line without appropriate approval in writing.
- iv. All communication towers and communication equipment shall be designed to conform to accepted electrical engineering methods and practices and to comply with the provisions of the National Electrical Code, as amended.
- v. All communication towers and communication equipment shall be constructed to conform to the requirements of the Occupational Safety and Health Administration (OSHA).
- vi. All communication towers and communication equipment shall be designed and constructed to all applicable standards of the American National Standards Institute (ANSI) manual, as amended.
- vii. An engineer's certification shall be submitted for all communication towers and all other communication equipment to document and verify the design specifications, including, but not limited to, the foundation for all towers, anchors for all guy wires (if used), the location of all co-location sites, calculated fall zone, and strength requirements to withstand natural forces such as ice, wind, and earth movements.
- viii. All communication towers shall be of monopole design.
- ix. Communication towers shall be set back from all property lines a minimum distance equal to the calculated fall zone, as set forth in the petitioner's engineering certification for the communication tower.
- x. Only lighting that is for safety or security reasons or required by the FAA or other federal or state authority, shall be permitted. All lighting shall meet requirements of Section 20.04.090 (Outdoor Lighting), except where state or federal requirements provide otherwise.
- xi. Communication towers shall not exceed a height equal to 199 feet from the base of the structure at ground level to the top of the highest point, including appurtenances.

(E) Design

Each tower and antenna shall be masked, colored, or enclosed to appear visually similar to the surface on which it is mounted, or to minimize visual differences in color and texture when viewed against its background from public streets and open spaces, to reduce negative visual impact.

(F) Screening

The outermost perimeter or security fence of a communication facility shall be screened with a solid fence or wall at between eight and ten feet in height and shall provide at least one tree and three shrubs per 10 linear feet of fencing to minimize the visual impact of the use on surrounding properties, public streets, and public open spaces. Required plantings shall be located on the side of the fence closest to abutting properties.

(G) Abandoned Towers

Any tower unused or left abandoned for six months shall be removed by the tower owner at the owner's expense. Should the communication tower owner fail to remove the tower after 30 days from the date a notice of violation is issued, the city may remove the tower and bill the owner for the costs of removal and cleanup of the site.

(H) Noncommercial Antennas

Noncommercial antennas for individual, private use, including but not limited to, amateur radio antennas, shall be permitted as an accessory use in all residential districts, subject to the following standards:

i. Height

The height of a noncommercial antenna shall not exceed 75 feet, measured from the ground, whether the antenna is mounted on the roof or on the ground.

ii. Setbacks

No such antenna shall be located within a front setback and shall be set back at least five feet from any side or rear property line.

(I) Additional Standards for the MD Zoning District

Communication facilities shall be strictly limited to antennas or other communication equipment accessory to the primary use of the building. No free-standing communication facilities are allowed.

- i. All antennas or other communication equipment shall be no taller than 10 feet above the height of the building to which they are affixed.
- ii. All communication facilities shall be mounted on a building of at least two stories in height.
- iii. Communication facilities shall be designed to blend into the surrounding environment through the use of color, camouflaging, materials, and/or architectural treatment, except in an instance where the color is dictated by federal or state authorities such as the Federal Aviation Administration (FAA).

(2) Solar Collector, Ground- or Building-Mounted

- (A) Accessory solar collectors shall only be located behind the front yard setback or on rooftops.
- (B) In the R1, R2, R3, and R4 zoning districts, accessory building-mounted solar collectors may exceed the maximum building height requirement by a maximum of 36 inches. For all other zoning districts, accessory building-mounted solar collectors may exceed the maximum building height requirement by a maximum five feet.

(3) Utility Substation and Transmission Facility

Utility substations and transmission facilities (not including sewer or water boost or lifting stations) shall be screened with a solid fence or wall at between eight and ten feet in height and shall provide at least one tree and three shrubs per 10 linear feet of fencing to minimize the visual impact of the use on surrounding properties, public streets, and public open spaces. Required plantings shall be located on the side of the fence closest to abutting properties.

(4) Wind Energy System, Large

The maximum height of a primary use large wind energy system shall not exceed 200 feet, and each wind energy generating tower shall be set back from each property line at least a distance equal to the height of the tower and blade with the blade in its highest vertical position.

(5) Wind Energy System Small

- (A) In Residential zoning districts, an accessory small wind energy system may exceed the maximum building height of the applicable zoning district by 10 feet.
- (B) In Mixed-Use zoning districts, an accessory small wind energy system may exceed the maximum building height of the applicable zoning district by 20 feet.
- (C) In Nonresidential zoning districts, an accessory small wind energy system may exceed the maximum building height of the applicable zoning district by 40 feet.
- (D) Each accessory small wind energy system shall be set back from each property line at least a distance equal to the height of the tower and blade with the blade in its highest vertical position.

(g) Accessory Uses and Structures

All accessory uses shown in Table 3-1 shall comply with the following standards.

(1) Generally

Accessory uses and structures customarily incidental to the principal use and/or structure shall be permitted subject to site plan requirements, all necessary permits and approvals, and other applicable requirements.

(A) Compliance Required

Accessory structures shall comply with all dimensional and development standards for the subject zoning district regardless of whether a temporary use permit or certificate of zoning compliance is required.

(B) Exemptions

The installation of flag poles and/or detached structures that serve as covered, short-term Class II bicycle parking facilities shall not count towards the maximum number of accessory structures allowed.

(C) Prohibitions

A mobile home, manufactured home, recreational vehicle, semi-tractor trailer, boat, or motor vehicle shall not be used as an accessory structure in any zoning district.

(D) Timing

Accessory structures are not permitted on a parcel prior to any primary structure being constructed, except where the accessory structure is being used in conjunction with the act of constructing a primary structure or for agricultural purposes.

(E) Number and Size Permitted

The maximum number (per lot or parcel) and maximum footprint (cumulative total per parcel) of enclosed accessory structures permitted is indicated in the table below:

Table 03-4: Number and Size of Enclosed Accessory Structures Permitted

Zoning District	Maximum Number	Maximum Footprint (cumulative total)
R1	2	1,000 square feet or 50 percent of the square footage of the primary structure, whichever is less [1]
R2		840 square feet
R3		580 square feet
R4		400 square feet
RM, RH, RMH	None	840 square feet or 15 percent of the cumulative square footage of the primary building(s) footprint, whichever is greater.
MS, MN, MM, MD, MC, ME, MH		1000 square feet or 15 percent of the cumulative square footage of the primary building(s) footprint, whichever is greater.
MI, EM, PO	None	None

Notes:

[1] Agricultural accessory structures are exempt from the size limitations.

(F) Location

- i. Unless otherwise authorized in this UDO, accessory structures shall be located no closer than 35 feet from the front property line and five feet from side and rear property lines.
- ii. Flag poles shall be located no closer than 12 feet from the front property line and one foot from the side and rear property lines.

(G) Design

Accessory structures larger than 120 square feet shall incorporate materials, scale, colors, architectural details, and roof slopes that are compatible with the principal building(s).

(2) Chicken Flocks

Chicken flocks as defined in the Bloomington Municipal Code Section 7.01.010, may be kept as an accessory use to a permitted principal use, provided that such use is permitted by and complies with all regulations of Title 7 (Animals) of the Bloomington Municipal Code, as amended. The regulations of Title 7 (Animals) of the Bloomington Municipal Code are expressly incorporated into this UDO by reference.

(3) Detached Garage Design

- (A) For detached garages accessory to residential uses, exposed or corrugated metal facades are not permitted. The exterior finish building materials used for a detached garage shall comply with the standards in Section 20.04.070(d)(3)(B) (Materials).
- (B) Detached garages and carports shall be located a minimum of 10 feet behind the primary structure's front facade and five feet from side and rear property lines, except for exceptions listed in Section 20.04.020(e)(3) (Exceptions to Setback Requirements).

(4) Drive-Through

- (A) In the MM district, all uses, except for financial institutions shall be limited to one drive-through bay. Financial institutions shall be allowed up to three drive-through bays.
- (B) In the MC district, all uses, except for financial institutions shall be limited to two drive-through bays. Financial institutions shall be allowed up to three drive-through bays.

(5) Dwelling, Accessory Unit**(A) Purpose**

These accessory dwelling unit ("ADU") standards are intended to permit the creation of legal ADUs that are compatible with residential neighborhoods while also adding housing options for the City's workforce, seniors, families with changing needs, and others for whom ADUs present an affordable housing option.

(B) Generally

- i. This use shall be accessory to a single-family or duplex dwelling that is the principal use on the same lot or parcel.
- ii. Not more than one ADU may be located on one lot.
- iii. ADUs shall not contain more than two bedrooms.
- iv. No more than one family, as defined in Chapter 20.07: (Definitions), shall reside in one accessory dwelling unit; provided, however, that units lawfully in existence prior to the effective date of the ordinance from which this section derives where the number of residents located in one accessory dwelling unit lawfully exceed that provided by the definition of family in Chapter 20.07: (Definitions), may continue to be occupied by the same number of persons as occupied the accessory dwelling unit on that effective date. For purposes of this section, attached ADUs with internal access that were approved under this ordinance shall be considered one dwelling unit.
- v. A request for an ADU shall be required to submit a separate site plan petition with the Planning and Transportation Department if no building permit is processed for the ADU.

(C) Utilities

All ADUs shall be connected to the public water main and sanitary sewer that are adjacent to the property on which the ADU is located, per City of Bloomington Utilities' Rules and Regulations or Construction Specifications. Where water or sanitary sewer mains are not adjacent to the property and the primary dwelling on the lot uses a septic system, the ADU may use the septic system in compliance with Monroe County Health Department Standards.

(D) Standards for Attached ADUs

- i. The maximum square footage of any attached ADU shall be 840 square feet.
- ii. The maximum height of any attached ADU shall be the same as that applicable to the primary dwelling structure in the zoning district where the ADU is located.
- iii. Each ADU shall be set back from each property line by at least the same setback distance applicable to the primary dwelling structure in the zoning district where the ADU is located.

(E) Standards for Detached ADUs

Detached ADUs shall meet the architectural and foundation requirements for a single-family dwelling within the applicable zoning district as found in Section 20.04.070(d)(3) (Residential).

- i. The maximum gross floor area of the detached ADU portion of any accessory structure shall be 840 square feet or the maximum square footage allowed for accessory structures permitted by Section 20.03.030(g) (Accessory Uses and Structures), whichever is less.
- ii. The detached ADU shall not exceed 25 feet in height.

- iii. The detached ADU shall not extend closer to any street than the existing primary dwelling structure.
- iv. The detached ADU shall comply with the requirements for accessory structures in Section 20.03.030(g) (Accessory Uses and Structures). Where one or more of the standards in Section 20.03.030(g) (Accessory Uses and Structures) conflict with these use-specific standards, these use-specific standards shall govern.
- v. A detached ADU shall be set back from any side or rear property by at least five feet.
- vi. Existing single-story detached accessory structures converted to ADUs shall be exempt from the setback requirements pursuant to Section 20.06.090(d) (Nonconforming Structures).

(F) Historic Districts

If located within a historic district, any exterior changes or new construction shall be in compliance with the historic district's guidelines and any required certificate of appropriateness shall be obtained pursuant to Title 8 (Historic Preservation and Protection) of the Bloomington Municipal Code.

(G) Owner Occupancy

- i. ADUs shall only be permitted on a property where either the primary dwelling unit or the ADU is occupied by the owner of the property.
- ii. The owner of each property on which an ADU is located shall sign an affidavit pledging agreement with the terms of this section. The affidavit shall specify which dwelling unit (either the primary dwelling unit or the ADU) the owner will occupy. If at any time the owner moves from one dwelling unit to the other, the owner shall file an updated affidavit. Otherwise, all affidavits shall be filed annually with the Planning and Transportation Department.
- iii. Any primary dwelling or ADU used as a rental unit shall register with the Department of Housing and Neighborhood Development (HAND) and receive appropriate certification prior to occupancy.

(H) Recorded Documents

- i. Prior to receiving a building permit for an ADU, the petitioner shall record a deed or title restriction with the Monroe County Recorder, in a form acceptable to the City, stating that:
 - 1. The ADU shall not be sold separately from the primary unit; and
 - 2. Either primary dwelling unit or the ADU shall be occupied by the owner(s) of record as their primary residence.
- ii. If at any time the City determines that the subject property is in violation of this UDO or in violation of the deed or title restriction, the ADU approval shall be withdrawn. In addition, the City may require that the ADU be removed from the property, which may include but is not limited to removal of any second kitchen on the property, including all kitchen appliances and cabinets.

(6) Home Occupation

(A) Exempted Uses

- i. The following uses are permitted and shall not be regulated as Home Occupations:

1. Childcare home, provided that the childcare home is also the primary residence of the operator;
2. Adult day care home;
3. Group care home, FHAA (small or large)
- ii. Activities that create no external visual changes and produce no odors, noise, vibration, or other discernible impacts outside the dwelling, including but not limited to drafting, drawing, typing, writing, and operating telephones, sewing machines or computers, shall not require a certificate of zoning compliance or conditional use approval, provided that the following regulations are met:
 1. No employees or customers visit or park vehicles on the premises;
 2. No signs are displayed; and
 3. No deliveries other than those normally associated with residential uses are made to the site.

(B) Certificate of Zoning Compliance

Except as noted in subsection (A)(ii) above, no person shall conduct a Home Occupation in a dwelling in any zoning district without having first received a certificate of zoning compliance. Such certificate of zoning compliance shall not be transferable to any other person, nor shall this certificate of zoning compliance be valid at any address or for any Home Occupation other than the one appearing on the certificate of zoning compliance.

(C) Conditional Use Approval

In Residential zoning districts, a Conditional Use Approval shall be required for Home Occupations prior to the issuance of a certificate of zoning compliance.

(D) Site Plan Review

i. Residential Districts

A Home Occupation in a Residential zoning district shall be treated as a single-family dwelling unit for purposes of site plan review.

ii. Mixed-Use Districts

1. A Home Occupation in a Mixed-Use zoning district that meets all of the standards of this Section 20.03.030(g)(6) shall be treated as a single-family dwelling unit for purposes of site plan review.
2. A Home Occupation that does not meet the standards of this section shall be treated as a commercial use and subject to site plan review.

(E) Operator Residency Required

The operator of the Home Occupation shall reside in the dwelling unit.

(F) Maximum Number of Nonresident Employees

Any Home Occupation shall be permitted a maximum of one employee who does not reside in the dwelling unit.

(G) Maximum Floor Area

- i. For Home Occupations located within a primary structure no more than 50 percent of the total interior floor area of the dwelling unit may be used in connection with the Home Occupation.
- ii. If there is more than one Home Occupation being conducted within a dwelling unit, then all Home Occupations within the dwelling unit shall cumulatively use no more than 50 percent of the dwelling unit.
- iii. Area used for storage of material or products used in the Home Occupation shall be included in this calculation.
- iv. For Home Occupations located within an accessory structure no more than 840 square feet or the maximum square footage allowed for accessory structures permitted by Section 20.03.0309(g) (Accessory Uses and Structures), whichever is less may be used in connection with the Home Occupation.
- v. Exempted Uses are excluded from square footage limitations in Section 20.03.030 (g)(6)(A).

(H) Multiple Home Occupations

- i. More than one Home Occupation may be permitted within an individual dwelling unit.
- ii. Where multiple Home Occupations are conducted within an individual dwelling unit, the operations standards of this subsection shall be applied to the combined total of all Home Occupation activities, not to each Home Occupation individually.

(I) Residential Character

There shall not be any interior or exterior, structural or aesthetic alterations that change the residential character of the dwelling unit within which the Home Occupation operates.

(J) Outdoor Display and Storage

Outdoor display of goods, materials, supplies, or equipment is prohibited.

(K) Sales and Rentals Prohibited

Direct sales and/or rentals of products from the property on which the Home Occupation is located is prohibited, except that incidental sales of products related to personal services provided through the Home Occupation are permitted. Mail and/or telephone sales activities are permitted.

(L) Off-street Parking and Loading

No additional driveway to serve the Home Occupation shall be permitted. A minimum of one off-street parking space shall be provided for home occupations that are located within an established Neighborhood Parking Zone District.

(M) Hours of Operation

Customer visits in association with the Home Occupation shall not occur before 8:00 a.m. or after 8:00 p.m.

(N) Commercially Licensed Vehicles

No vehicles requiring the operator to have a commercial driver's license shall be allowed in conjunction with any Home Occupation.

(O) Deliveries

Deliveries to the property shall not be permitted, except those by typical residential delivery services at a frequency similar to homes that do not operate a Home Occupation.

(7) Outdoor Retail and Display

- (A) All outdoor display of merchandise shall be contained on an improved surface such as asphalt, concrete, or pavers, and such areas shall be limited to 15 percent of the gross floor area of the principal structure.
- (B) Any outdoor display area shall not block ADA-accessible parking areas, parking lot access aisles, or sidewalk areas, and shall not reduce the number of parking spaces below any minimum requirement for the use in this UDO.
- (C) In those zoning districts where Table 03-1 indicates that this is a temporary use:
 - i. The temporary retail activity or outdoor display shall be associated with an approved retail primary use on the property;
 - ii. The temporary retail activity shall be of the same nature as the permanent retail activity conducted on the property;
 - iii. A temporary use permit shall be required and good for a maximum of 45 consecutive days;
 - iv. A temporary use permit shall only be issued to the operator of the associated permanent retail use; and
 - v. No property shall be issued more than one such temporary use permit in a calendar year.

(8) Outdoor Trash and Recyclables Receptacles

- (A) Outdoor trash and recyclables receptacles, dumpsters, compactors and similar containers shall be placed on a paved slab.
- (B) Outdoor trash receptacles, dumpsters, compactors and similar containers shall be effectively screened on all sides pursuant to Section 20.04.080(m) (Screening).
- (C) Screened outdoor storage facilities shall be adequately protected from damage by vehicles through the installation of bollards and shall be properly maintained and kept in good repair at all times.

(9) Swimming Pools

- (A) Swimming pools are subject to the Indiana Administrative Code (675 IAC 14-4.4-38: Swimming Pool Code), the standards of this UDO, and the standards of the Bloomington Municipal Code (BMC Section 14.36.160).
- (B) Pool and pool equipment shall be located no closer than 35 feet to the front property line and five feet from side and rear property lines.

(h) Temporary Uses

All temporary uses shown in Table 03-1: Allowed Use Table, shall comply with the following standards.

(1) Generally**(A) Permit Required**

All temporary uses shall require a Temporary Use Permit pursuant to Section 20.06.050(k) (Temporary Use Permit), unless otherwise specified in this UDO. Uses not specifically authorized in Table 03-1: Allowed Use Table, shall be prohibited.

(B) Off-street Parking

Parking for temporary uses shall not result in parking for any other existing use on the property falling below the minimum off-street parking required by Section 20.04.060 (Parking and Loading), and shall not block any driveways or drive aisles required for access to any other existing use on the property.

(C) Public Rights-of-way

Temporary uses shall be arranged so that vehicles do not block a public right-of-way.

(D) Signs

Temporary uses shall be permitted to display one banner sign with an area of up to 16 square feet without the need to obtain sign permits, subject to regulations on permitted locations and maximum height of signs of the same type in the zoning district where the temporary use is located. Temporary banner signs shall be located on a structure (not freestanding).

(2) Book Buyback

The temporary buyback of higher education books shall require a temporary use permit. Such permit shall be valid for a maximum of two periods of seven consecutive days or one period of 15 consecutive days. No property shall be issued permits totaling more than 15 days in a calendar year.

(3) Construction Support Activities

Contractor's offices, equipment storage, and portable lavatories are permitted on or adjacent to construction sites on property owned or controlled by the owner of the property on which the construction is taking place, subject to the following conditions:

- (A) The use shall only occur between 15 days before and 15 days after the construction activity. All temporary facilities shall be removed within 15 days after completion of construction;
- (B) The structures shall not contain sleeping or cooking facilities; and
- (C) Portable lavatories shall be located as to minimize impacts to adjacent residential uses.

(4) Farm Produce Sales

A temporary use permit is not required to operate a farm produce sales use, but such use shall comply with the standards of this UDO, in addition to the following standards:

- (A) Temporary tents, structures, or stands used for the sale of farm produce shall not exceed 150 square feet;
- (B) Farm produce sales operations shall not block ADA-accessible parking areas, parking lot access aisles, or sidewalk areas, and shall not reduce the number of parking spaces below any minimum requirement for the principal use in this UDO;
- (C) Farm produce sales shall not operate on the same lot for more than 180 days in a calendar year; and

- (D) The Bloomington Community Farmers' Market and any other farmers' market approved by the City shall be exempt from this requirement.

(5) Real Estate Sales or Model Home

Real estate sales or model homes are permitted in any zoning district on the site of the development for which the sales are taking place. They are permitted to remain on the site of the development from 15 days before homes are offered for sale until 15 days after all homes or home sites within the development are sold.

(6) Seasonal Sales

- (A) Fireworks sales shall be permitted only at locations within the MC zoning district.
- (B) A temporary use permit shall be required and shall be valid for a maximum of 30 consecutive days.
- (C) No property shall be issued more than three temporary use permits in a calendar year.
- (D) The temporary use shall be located on a lot that fronts on a collector or arterial street.
- (E) The temporary use shall be located at least 50 feet from any residential district.

(7) Special Event

- (A) A temporary use permit is required for a special event and is permitted for 15 days. No property shall be issued more than one special event permit per calendar year.

Chapter 20.04: Development Standards & Incentives

20.04.010 Applicability

(a) New Development

The requirements of this chapter shall apply to all new development pursuant to Section 20.01.020 (Authority, Applicability, and Jurisdiction), unless otherwise exempted in this Chapter.

(b) Activities That Trigger Compliance

- (1) Construction of any new primary structure on a lot shall require compliance with all standards in this Chapter unless an exception is stated in this UDO.
- (2) Table 04-1 identifies activities that trigger compliance for conforming sites and structures with specific development standards contained in Chapter 20.04: (Development Standards & Incentives). These standards shall not exempt development activity that falls below the thresholds identified in Table 04-1 from complying with applicable standards of this UDO or any applicable federal, state, or local regulations. Additional information on applicability is provided in the referenced sections.

- (3) Section 20.06.090(f) (Nonconforming Site Features) identifies activities that trigger full and limited compliance for lawful nonconforming sites and structures with specific development standards contained in Chapter 20.04: (Development Standards & Incentives).
- (4) For purposes of this section, “entire site” shall mean the total area of the lot on which development is occurring. “Disturbed area” shall mean those areas of the lot or those portions of the structure that are included in the project area or that are affected by the proposed development activity.

Table 04-1: Development Standards Compliance Thresholds For Conforming Sites and Structures

UDO Standard	UDO Section	Change in Use		New Development		Redevelopment			
		Entire Site	Disturbed Areas Only	Entire Site	Disturbed Areas Only	Minor Site Plan		Major Site Plan	
						Entire Site	Disturbed Areas Only	Entire Site	Disturbed Areas Only
Dimensional Standards	20.04.020		✓	✓			✓	✓	
Environment	20.04.030		✓	✓			✓	✓	
Floodplain	20.04.040		✓	✓			✓	✓	
Access and Connectivity	20.04.050	✓		✓		✓		✓	
Parking and Loading	20.04.060	✓		✓		✓		✓	
Site and Building Design	20.04.070		✓	✓			✓	✓	
Landscape, Buffering, and Fences	20.04.080		✓	✓		✓		✓	
Outdoor Lighting	20.04.090	✓		✓			✓	✓	
Signs	20.04.100	✓		✓		✓		✓	

20.04.020 Dimensional Standards

(a) Purpose

This section is intended to provide dimensional standards and uniform methods of measurement for interpretation and enforcement of the lot and building standards in this UDO.

(b) Applicability

Compliance with this Section 20.04.020 (Dimensional Standards) shall be required pursuant to Section 20.04.010 (Applicability).

(c) General Dimensional Standards

The following Table 04-2 through Table 04-5 establishes the dimensional standards for residential, mixed-use, and other zoning districts contained in Chapter 20.02: (Zoning Districts). In case of a conflict between the dimensions shown in this Section 20.04.020 and the dimensions shown for individual districts in Chapter 20.02: (Zoning Districts), the provisions of this Section 20.04.020 shall govern.

(1) **Residential Zoning Districts**

Dimensional standards for residential zoning districts are shown in Table 04-2: *Residential District Dimensional Standards*.

(2) **Mixed-Use Zoning Districts**

Dimensional standards for mixed-use zoning districts are shown in Table 04-3: *Mixed-Use District Dimensional Standards*.

(3) **Downtown Character Overlays**

Dimensional standards for the Downtown Character Overlays are shown in Table 04-4: *Downtown Character Overlay Dimensional Standards*.

(4) **Nonresidential Zoning Districts**

Dimensional standards for nonresidential zoning districts are shown in Table 04-5: *Nonresidential District Dimensional Standards*.

Table 04-2: Residential District Dimensional Standards

sq. ft. = square feet

Dimensional Standards		R1	R2	R3	R4	RM [1]	RH [1]	RMH [1]	
Lot Dimensions (Minimum, only for lots created after the effective date)								Entire Development	Dwelling Site
Lot area	sq. ft.	20,000 [2]	7,200 [2]	5,000 [2]	4,000	5,000	5,000	43,560	3,000
	acres	0.459 [2]	0.165 [2]	0.115 [2]	0.092	0.115	0.115	1.00	0.069
Lot width		100 feet [2]	60 feet [2]	50 feet [2]	35 feet	50 feet	50 feet	200 feet	40 feet
Building Setbacks (Minimum)									
Front build-to line		None	None	15 feet [3]	None	None	None	None	None
Front		15 feet	15 feet [3]	None	15 feet [3]	15 feet	15 feet	25 feet	10 feet
Attached front-loading garage or carport		25 feet [4]	25 feet [4]	10 feet behind the primary structure's front building wall		25 feet [4]		None	None
Side		First floor: 8 feet Each story above the ground floor: 10 feet [2]	First floor: 8 feet Each story above the ground floor: 10 feet [2] [5]	First floor: 6 feet Each story above the ground floor: 10 feet [2] [5]	5 feet	10 feet [6]	10 feet [6]	20 feet	Primary Structure: 7 feet Accessory Structure: 2 feet
Rear		25 feet [2]	25 feet [2]	25 feet [2]	25 feet	15 feet [6]	15 feet [6]	20 feet	
Other Standards									
Front parking setback (minimum)		None	None	None	None	20 feet behind the primary structure's front building wall		None	None
Side parking setback (minimum)		None	None	None	None	8 feet	8 feet	None	None
Rear parking setback (minimum)		None	None	None	None	8 feet	8 feet	None	None
Impervious surface coverage (maximum)		30%	40%	45%	50%	60%	65%	None	65%
Landscape area (minimum)		None	None	None	None	40%	35%	None	None
Primary structure height (maximum)		40 feet	40 feet	35 feet	40 feet	3 stories, not to exceed 40 feet [2] [6]	5 stories, not to exceed 63 feet [2] [6]	None	20 feet
Accessory structure height (maximum)		20 feet	20 feet	20 feet	20 feet	20 feet	20 feet	None	20 feet

Notes:

- [1] Any single-family, duplex, triplex, or fourplex development shall be subject to the R4 residential lot standards
- [2] See Section 20.04.110 (Incentives) for alternative standards.
- [3] Or the median front setback of abutting residential structures, whichever is less.
- [4] Or equal to the setback of the primary structure, whichever is greater.
- [5] Legally established lots of record that are less than the minimum lot width may reduce the required setback up to 2 feet.

Table 04-2: Residential District Dimensional Standards

sq. ft. = square feet

Dimensional Standards	R1	R2	R3	R4	RM [1]	RH [1]	RMH [1]
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[6] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).

Table 04-3: Mixed-Use District Dimensional Standards

sq. ft. = square feet

Dimensional Standards		MS	MN	MM	MC	ME	MI	MD	MH
Lot Dimensions (Minimum, only for lots created after the effective date)									
Lot area	sq. ft.	5,000	5,000	5,000	5,000	5,000	5,000	See Table 04-4	10,890
	acres	0.115	0.115	0.115	0.115	0.115	0.115		0.25
Lot width		50 feet	50 feet	50 feet	50 feet	50 feet	50 feet		
Building Setbacks (Minimum)									
Front build-to range		None	15 to 25 feet	15 to 25 feet	None	None	None	See Table 04-4	None
Front building facade at build-to range (minimum)		None	70%	70%	None	None	None		None
Front		15 feet	(see above)	(see above)	15 feet	15 feet	15 feet		25 feet
Side [1]		15 feet	7 feet	7 feet	7 feet	10 feet	10 feet		10 feet
Rear [1]			10 feet						
Other Standards									
Front parking setback (minimum)		20 feet behind the primary structure's front building wall						See Table 04-4	20 feet behind the primary structure's front building wall
Side parking setback (minimum)		8 feet	8 feet	8 feet	8 feet	8 feet	8 feet		8 feet
Rear parking setback (minimum)		8 feet	8 feet	8 feet	8 feet	8 feet	8 feet		8 feet
Impervious surface coverage (maximum)		70%	60%	60%	60%	70%	60%		60%
Landscape area (minimum)		30%	40%	40%	40%	30%	40%		40%
Area of any individual commercial tenant (maximum)		None	5,000 sq. ft. gross floor area	None	None	None	None		None
Primary structure height (maximum) [1] [2] [3]		6 stories, not to exceed 75 feet	3 stories, not to exceed 40 feet	4 stories, not to exceed 50 feet	4 stories, not to exceed 50 feet	5 stories, not to exceed 63 feet	4 stories, not to exceed 50 feet		3 stories, not to exceed 40 feet
Accessory structure height (maximum)		20 feet	20 feet	30 feet	30 feet	30 feet	30 feet		25 feet

Notes:

Table 04-3: Mixed-Use District Dimensional Standards

sq. ft. = square feet

Dimensional Standards	MS	MN	MM	MC	ME	MI	MD	MH
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Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards.

Table 04-4: Downtown Character Overlay Dimensional Standards

sq. ft. = square feet

Dimensional Standards	MD-CS	MD-DC	MD-UV	MD-DE	MD-DG	MD-ST
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Lot Dimensions (Minimum)

Lot area	None	None	None	None	None	None
Lot width	None	None	None	None	None	None

Building Setbacks

Front build-to range	0 to 5 feet	0 to 5 feet	0 to 15 feet	0 to 15 feet	0 to 15 feet	None
Front building facade at build-to range (minimum)	90%	70%	70%	70%	70%	None
Front (maximum)	None	None	None	None	None	15 feet
Adjacent to B-Line (minimum)	None	10 feet	None	None	None	15 feet
Side (minimum) [1]	None	None	None	7 feet	5 feet	5 feet
Rear (minimum) [1]	None	None	None	10 feet	5 feet	5 feet

Other Standards

Front parking setback (minimum)	20 feet behind the primary structure's front building wall					
Side and Rear parking setback (minimum)	Requirements set per Section 20.04.080(h)(1)(A)(ii)					
Impervious surface coverage (maximum)	100%	100%	General and Restaurant Row: 85% Kirkwood Corridor: 100%	75%	75%	85%
Landscape area (minimum)	None	None	General and Restaurant Row: 15% Kirkwood Corridor: None	25%	25%	15%
Primary structure height (maximum) [1] [2] [3] [4]	3 stories, not to exceed 40 feet	4 stories, not to exceed 50 feet	General and Kirkwood Corridor: 3 stories, not to exceed 40 feet Restaurant Row: 3 stories, not to exceed 35 feet	3 stories, not to exceed 40 feet	3 stories, not to exceed 40 feet	4 stories, not to exceed 50 feet

Table 04-4: Downtown Character Overlay Dimensional Standards

sq. ft. = square feet

Dimensional Standards	MD-CS	MD-DC	MD-UV	MD-DE	MD-DG	MD-ST
Primary structure height (minimum)	25 feet	35 feet	General and Kirkwood Corridor: 25 feet Restaurant Row: 20 feet	20 feet	25 feet	25 feet
Accessory structure height (maximum)	25 feet	25 feet	25 feet	25 feet	30 feet	30 feet

Notes:

- [1] Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the standards in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- [2] Where a nonresidential use is proposed on the ground floor, the minimum floor to ceiling height shall be 12 feet.
- [3] See Section 20.04.110 (Incentives) for alternative standards. Additional height incentives shall not be available for student housing or dormitories.
- [4] Buildings that include one or more dwelling units that meet the definition of "Student Housing or Dormitory" shall be subject to the maximum building heights established in Section 20.03.030(b)(13) (Student Housing or Dormitory).

Table 04-5: Nonresidential District Dimensional Standards

sq. ft. = square feet

Dimensional Standards	EM	PO
Lot Dimensions (Minimum, only for lots created after the effective date)		
Lot area	None	None
Lot width	100 feet	None
Building Setbacks (Minimum)		
Front	25 feet	15 feet
Side	20 feet [1]	5 feet
Rear	20 feet [1]	5 feet
Other Standards		
Front parking setback (minimum)	20 feet behind the primary structure's front building wall	15 feet
Impervious surface coverage (maximum)	70%	None
Landscape area (minimum)	30%	None
Primary structure height (maximum)	4 stories, not to exceed 50 feet [1]	20 feet
Accessory structure height (maximum)	35 feet	20 feet

Notes:

- [1] When adjacent to the R1, R2, R3, or R4 zoning district, the minimum setback shall be increased by one foot for each foot of building height over 30 feet.

(d) Lot and Space Requirements**(1) Minimum Lot Dimensions**

No space that is needed to meet the width, setback, area, open space, impervious surface coverage, parking, landscaping, or other requirements of this UDO for a lot or building may be sold, leased, or subdivided away from such lot or building. All lots affected by a proposed subdivision shall meet the standards of this UDO.

(2) Number of Primary Buildings or Uses per Lot

- (A) Except for projects approved as cottage development pursuant to Section 20.03.030(b)(7) (Dwelling, Cottage Development), only one principal building for single-family, duplex, triplex, or fourplex uses, with permitted accessory buildings, may be located on a lot or parcel. Every dwelling shall have legal means of access to a right-of-way.
- (B) Where a lot or parcel is used for multifamily, mixed-use, commercial, or industrial purposes, more than one primary building may be located upon the lot when such buildings conform to all requirements of this UDO applicable to the uses and district.
- (C) No lot shall be divided to contain more dwelling units than are permitted by the regulations of the zoning district in which they are located.

(e) Setbacks

(1) Measurement

- (A) Setbacks referred to in this UDO shall be measured as stated in Chapter 20.07: (Definitions), under the term "setback" and "build-to range."
- (B) For private streets, setbacks shall be measured from the edge of the curb, easement, or right-of-way, whichever distance is greater.
- (C) Where existing right-of-way is wider than that proposed on the Transportation Plan, the setback shall be measured from the existing right-of-way.
- (D) For lots of record with no street frontage, a minimum building setback of 10 feet is required from the property line where access is gained. All other lot lines shall be considered side lot lines for the purposes of setbacks.
- (E) The minimum front building facade at the build-to range percentage shall be determined by calculating the width of the principal building that is within the build-to range divided by the total width of the lot at the street frontage.

(2) Single-Family Attached and Multifamily Dwellings

- (A) Multifamily dwellings on one lot shall be construed as one structure for purpose of measuring setbacks.
- (B) For purposes of setback calculations for side-by-side single-family attached or multifamily dwellings, only those dwelling units that do not share a common wall with an adjacent unit (end units) shall observe the required side setback for the district.

(3) Exceptions to Setback Requirements

- (A) The setback exceptions established in Table 04-6 shall not authorize the encroachment of any development across property lines or into a public right-of-way.
- (B) Every part of a required setback shall be unobstructed from ground level to the sky, except as follows:

Table 04-6: Authorized Exceptions to Setback Requirements

DU = dwelling unit

Type of Exception	Extent of Exception
Air conditioners (ground)	Up to 5 feet if screened by a fence, wall, or appropriate landscaping.
Air conditioners (window)	Up to 30 inches.
Architectural features	Up to 18 inches.
Awnings, balconies, canopies, patios, and steps	Up to 6 feet.
Bay windows, chimneys, eaves,	Up to 3 feet.
Decks	Up to 6 feet into the side or rear setback provided that no deck is closer than 2 feet to a side property line.
Fire Escapes	Up to 6 feet into side and rear setbacks.
Front Entry	For existing primary structures in the R1, R2, R3, and R4 zoning districts, an entry or covered front addition a maximum of 6 feet deep and with a width not to exceed one-third the width of the primary facade of the structure.
Accessible ramps	Exempt from all setback requirements.
Satellite dishes	Up to 5 feet into the front setback and no closer than one foot to the side and rear property lines.
Detached garages or carports	Where a rear alleyway provides access to a detached garage or carport, the setback from the property line that runs parallel to the alleyway to the detached garage or carport may be reduced to three feet.
Additions to existing primary structures	For single-family, duplex, and triplex structures, additions to the first floor footprint of existing primary structures may use existing side or rear setbacks already established on the lot, provided that the gross floor area of the existing structure is not increased by more than 50 percent. In no case shall the setback be less than 10 feet (rear) or 4 feet (side). Vertical additions to existing primary structures may utilize existing front setbacks provided that the existing structure is equal to, or has a greater front setback than, the median front setback of abutting residential structures.

- (C) Where this UDO establishes a maximum setback from the front property line, that maximum setback may be increased by up to five feet to accommodate access required by the Americans with Disabilities Act, utility or access easements, or to prevent encroachment of building projections over the public right-of-way.
- (D) For parking and building setback purposes, Interstate 69 is not considered a front.

(4) Through Lots

On a through lot, the Planning and Transportation Director shall determine which lot line shall be deemed the front lot line based on the existing and/or proposed building orientation of surrounding lots. Through lots adjacent to an arterial street shall comply with the standards established in 20.05.050(j)(7)(A)iii (Buffer).

(f) Building Height

(1) Measurement

Maximum building heights are expressed in both overall dimension and the number of stories, where applicable.

(A) Stories

Story height is measured between the floor of a story to the floor of the story above it. For single-story buildings and the uppermost story of a multistory building, the measurement shall be from the floor of the story to the ceiling.

(B) Overall Dimension

The height of buildings shall be measured as the vertical distance from the average finished grade surface of the building, structure, or wall exposed above the ground surface to the highest point of the roof, parapet wall, or uppermost part.

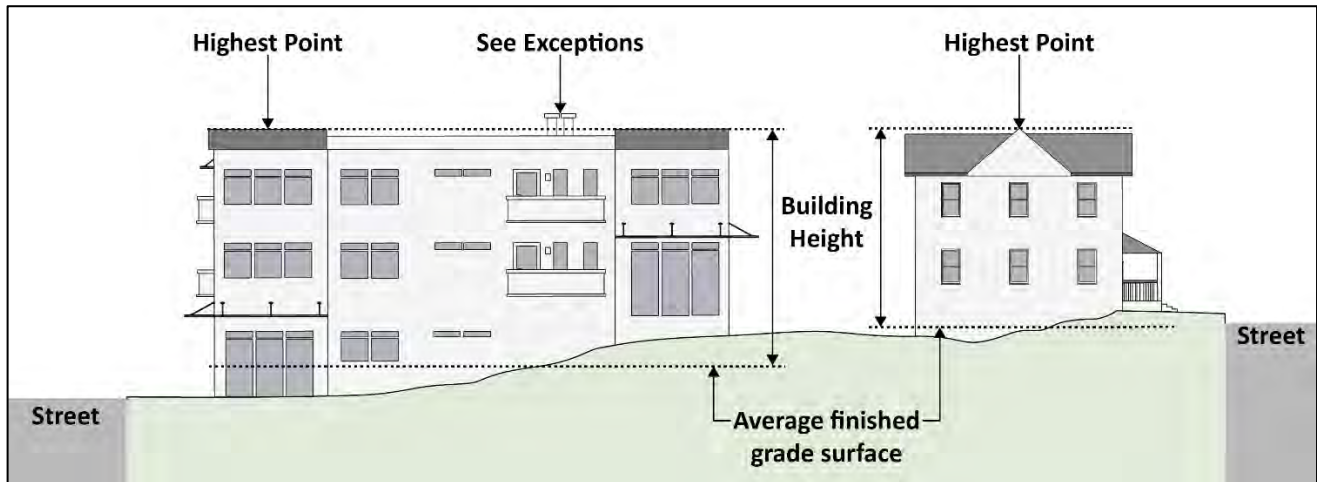


Figure 49: Building Height

(2) Exceptions to Height Requirements

Table 04-7: Authorized Exceptions to Height Requirements

Type of Exception	Extent of Exception
Place of worship elements	Steeples, bell towers, and similar features may exceed the maximum height of the applicable zoning district by no more than 25 percent of the applicable maximum height.
Chimneys and other ornamental architectural features	Chimneys and other ornamental architectural features may extend 10 feet above the roof's highest point.
Solar Collector	In the R1, R2, R3, and R4 zoning districts, accessory building-mounted solar collectors may exceed the maximum building height requirement by a maximum of 36 inches. For all other zoning districts, accessory building-mounted solar collectors may exceed the maximum building height requirement by a maximum five feet.
Water towers and quarry derricks	Water towers and quarry derricks are allowed up to a height of 150 feet.
Mechanical equipment and elevator bulkheads	Roof-mounted mechanical equipment including, but not limited to, utility boxes, telecommunication devices, cables, conduits, vents, chillers and fans, may extend up to 10 feet above the roof's highest point. In such cases, roof-mounted equipment shall comply with the requirements of Section 20.04.080(m)(1) (Roof-Mounted Mechanical Equipment).

Communication facilities	Communication facilities are exempt from height restrictions, subject to the limitations of 20.03.030(f)(1) (Communication Facility).
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No building or structure or part of a building or structure shall exceed the maximum building height within any zoning district unless authorized in Table 04-7, or elsewhere in this UDO.

(g) Building Floor Plate

- (1) The area of the lot covered by the primary building shall be included in the calculation of building floor plate in all districts.
- (2) The area of a lot covered by accessory buildings, parking garages, carports, and utility and storage sheds shall not be included in this calculation.

(h) Minor Modification

Minor modifications to some of the dimensional standards in this section may be available through the Minor Modification process in Section 20.06.080(a) (Minor Modification), which may be approved by staff during the petition process without the need to apply for a variance, provided that the criteria in Section 20.06.080(a) are met.

20.04.030 Environment

(a) Purpose

The Bloomington area is characterized by a wide variety of environmental features that affect the way land is developed. These features include karst geology (sinkholes, caves, springs, etc.), wetland areas, steep slopes, mature tree stands, and water resources such as lakes, streams and other surface watercourses. It is prudent and necessary that every area that becomes the subject of a petition for development be routinely scrutinized for the presence of environmental features in order to protect and enhance these environmental features and help mitigate the climate and extinction emergencies as well as the public health, ecology, and welfare.

(b) Applicability

Compliance with this Section 20.04.030 (Environment) shall be required pursuant to Section 20.04.010 (Applicability) and the specific applicability criteria established in Sections 20.04.030(c) through ~~20.04.030(i)~~20.04.030(j).

(c) Steep Slopes

(1) Applicability

This section shall apply to all land-disturbing activities on properties that contain naturally occurring steep or excessive slopes.

(2) Slope Measurement

For the purposes of this section, the percent slope shall be calculated by dividing the number of feet of elevation change between the top and toe of the slope in question by the horizontal distance of the slope in question, then multiply by 100 to acquire a percent figure.

(3) Easements

All slope areas required to be preserved subject to this section shall be placed within conservation easements pursuant to the standards of Section 20.05.040 (Easements).

(4) Excessive Slopes

Areas of land where the pre-development slopes are ~~25 percent or greater~~^{greater than 18 percent} shall not be disturbed for any improvements with the exception of utility lines.

(5) Steep Slopes

Any development on slopes between 12 percent and ~~less than 25~~¹⁸ percent shall be allowed a maximum disturbance of 50 percent of the total slope area. Priority for slope preservation shall be given to slope areas that exhibit one or more of the following characteristics:

- (A) Presence of highly erodible soils as identified in the Web Soil Survey produced by the National Cooperative Soil Services and operated by the USDA Natural Resources Conservation Service;
- (B) Adjacent to slopes of greater than 18 percent;
- (C) Adjacent to water resources;
- (D) Adjacent to other environmental features that are required to be preserved as part of this UDO;
or
- (E) Presence of tree cover on 50% or more of the surface area of the slope.

(6) Construction Measures

Any development on slopes between 12 percent and 18 percent shall incorporate construction measures such as retaining walls and walkout basements as well as current preferred practices for erosion control measures during construction, as provided in ~~Section 20.04.030(d)(3)(A)~~^{Title 13 (Stormwater) of the Bloomington Municipal Code}.

(7) Street Grades

Arterial and collector streets shall not exceed grades of six percent and local streets or alleys shall not exceed grades of eight percent unless the petitioner demonstrates that steeper grades will minimize disturbances to existing topography.

(8) Street Design

All drives and streets shall follow the topography with a minimum of cutting and filling.

(9) Soil Constraints

When unstable or contaminated soils are found, the effect of cutting and filling, alterations to slope, and the stabilization measures required to either avoid or address unstable or contaminated soils shall be minimized to the maximum extent practicable, given the soil condition to be avoided or mitigated.

(10) Overlapping Preservation Areas

Where acreage set aside to fulfill the conservation or buffer requirements in Section ~~20.04.030(d)~~^{20.04.030(e)}, Section ~~20.04.030(f)~~^{20.04.030(g)}, Section ~~20.04.030(g)~~^{20.04.030(h)}, and Section ~~20.04.030(h)~~^{20.04.030(i)} also meets the requirements for steep slope preservation under this section, such acreage shall be counted toward fulfillment of all applicable requirements.

~~(d) Siltation and Erosion Prevention~~**~~(1) Applicability~~**

~~(A) This subsection applies to any land development or land-disturbing activities that include one or more of the following conditions:~~

- ~~i. That disturbs a ground surface of 2,500 square feet or more;~~
- ~~ii. That involves excavation or filling of dirt, sand, or clean fill, including but not limited to single-family development;~~
- ~~iii. That involves street, highway, or bridge construction, enlargement, relocation or reconstruction; or~~
- ~~iv. That involves the laying, repairing, replacing, or enlarging of an underground pipe, facility, or any utility.~~

~~(B) All municipal government departments, including the City Utilities Department, shall comply with this section.~~

~~(2) Compliance with Other Regulations Also Required~~

~~Compliance with the requirements set out in this section shall not relieve any person of the independent obligation to comply with all applicable standards and practices set out in Indiana Administrative Code, 327 IAC 15 (Article 15), regarding stormwater runoff; the Indiana Stormwater Quality Manual developed by the Indiana Department of Environmental Management (IDEM); all applicable provisions of Title 10 (Wastewater) of the Bloomington Municipal Code regarding stormwater runoff; and all applicable rules, regulations, standards and specifications of the City Utilities Department regarding stormwater management practices.~~

~~(3) Erosion and Pollutant Control Requirements~~**~~(A) Current Preferred Practices~~**

~~All sites undergoing land disturbing activities, regardless of size, shall prevent the erosion of sediment or any other contaminant off site or conveyed into any bodies of water, either by wind or water. All land disturbing activities shall be protected by current preferred practices (CPP) including, but not limited to silt or erosion control fences, filter socks, straw bales, sedimentation basins, articulated concrete blocks, mechanically stabilized earth, storm grate filters, or erosion control mats.~~

~~(B) Environmental Features~~

~~For land-disturbing activities that occur adjacent to environmentally sensitive areas including but not limited to steep slopes, sinkholes, floodplain, and riparian buffers; redundant erosion control measures, such as additional barriers and reduced timelines for soil stabilization, shall be required, as determined by the Planning and Transportation Director.~~

~~(C) Waste and Material Disposal~~

~~Waste and unused building materials (e.g., garbage, debris, cleaning wastes, concrete waste, wastewater, toxic materials or hazardous materials) shall be properly disposed of in facilities labeled and designed for the containment of those materials while minimizing air, soil, and water pollution to the maximum degree practicable.~~

(D) — Tracking

~~Each site shall have sediment control devices or crushed stone streets, access drives, and parking areas of sufficient size and thickness to prevent sediment from being tracked onto public or private streets. Such areas shall be maintained at sufficient size and thickness throughout the duration of the construction activity on site. Any sediment that leaves the site is a violation of this UDO.~~

(E) — Drain Inlet Protection

~~All storm inlets shall be protected with best management practices meeting accepted design criteria, standards and specifications.~~

(F) — Sediment Control

~~Sediment shall be controlled and contained on site, and control measures shall prevent damage to existing vegetation or pavement.~~

(G) — Ground Cover

~~Vacant land held for development shall be planted with grass or other vegetative ground cover that complies with Section 20.04.080(l) (Vacant Lot Landscaping).~~

(H) — Inspection

~~All erosion control measures shall be installed by the developer and inspected and approved by the City Planning and Transportation Department before land-disturbing activity may take place. Where applicable, developers shall follow their self-monitoring inspection program throughout construction as outlined in Bloomington Municipal Code Section 10.21.070(r).~~

(I) — Finished Grade

~~Disturbed areas that are at finished grade with installed utilities shall be permanently seeded or mulched within seven days.~~

(J) — Unfinished Grade

~~Areas that have undergone land-disturbing activities and are not yet at finished grade, and that have no construction activity for 15 days or more, shall be established with temporary vegetation, seed, and/or straw, or other measures approved by the City.~~

(K) — Soil Stockpiles

~~All soil stockpiles shall be protected by erosion control barriers and areas that remain inactive for seven days or more shall be seeded, covered, or protected.~~

(L) — Plastic Netting

~~Under no circumstances shall plastic netting or plastic mesh be used on site for any type of landscaping or erosion control.~~

(M) — Single-Family Lots

~~Single-family lots that remain inactive for 15 days or more shall be established with temporary vegetation.~~

(N) — Channelized Runoff

~~Channelized runoff from off-site areas passing through a construction site shall be diverted around disturbed areas. Sheet flow runoff from off-site areas shall also be diverted around disturbed areas. Diverted runoff shall be conveyed in a manner that will not erode the conveyance and receiving channels.~~

(O) — Sequence of Land-Disturbing Activity

~~Land-disturbing activity shall be performed in a construction sequence that minimizes the area of bare soil exposed at any one time. Construction sequencing shall be subject to the approval of the City Planning and Transportation Department.~~

(e)(d) Drainage**(1) Applicability**

All proposed site plans submitted for approval, under the provisions of this UDO, shall provide for the collection and management of all surface water drainage.

(2) Exemption

The construction of single-family, duplex, triplex, fourplex, Mobile home, and manufactured home dwellings on existing lots of record where fully engineered drainage infrastructure is in place prior to occupancy of the home shall be exempt from the requirements of this Section 20.04.030 (Environment).

~~(3) — Drainage Plan~~

~~All grading permit petitions shall include the submittal of a drainage plan to the City Utilities Department. The drainage plan shall include, but not be limited to, the following items:~~

- ~~(A) — Complete construction plan showing all proposed detention and retention facilities, swales, and drainage structures.~~
- ~~(B) — All proposed piping including size and location of proposed stormwater lines, as well as plan and profile drawings for all proposed improvements.~~
- ~~(C) — Complete and accurate stormwater calculations justifying methodology of the drainage plan in compliance with City Utilities Department standards.~~

~~(4) — Stormwater Mitigation Requirements~~

~~Drainage facilities shall be provided to control runoff from all upstream drainage areas and from all areas within the site to a location adequate to receive such runoff, and shall:~~

- ~~(A) — Be designed and constructed in accordance with City Utilities Department standards.~~
- ~~(B) — Be durable, easily maintained, retard sedimentation, and retard erosion, not endanger the public health and safety, and not cause significant damage to property.~~
- ~~(C) — Be sufficient to accept runoff from the site after development and the present water runoff from all areas upstream to achieve discharge rates meeting City Utilities Department standards.~~
- ~~(D) — Provide stormwater runoff quality mitigation in compliance with City Utilities Department standards.~~

(5)(3) Poorly Drained Sites

Development proposed for sites that are adjacent to a floodplain area, located in an area with converging drainage flows, located in an area characterized by documented drainage problems, or located in an area with closed, depressed contour lines as shown on the City's GIS maps shall be subject to a higher level of drainage plan review. Site plans for these areas shall submit documentation that finished floor elevations of structures shall be at least two feet above areas that would be flooded during a one hundred-year storm event.

(6)(4) Dry Hydrants

Any development that incorporates a retention pond with a standing pool of water of at least 10,000 cubic feet in volume shall provide a dry hydrant that meets the specifications of the National Fire Protection Association (NFPA) Standard on Water Supplies for Suburban and Rural Fire Fighting, NFPA 1142 Chapter 9 (2001 Edition), or any subsequent amendment thereto.

(f)(e) Riparian Buffers**(1) Applicability**

- (A) This subsection shall apply to all land development activities on properties that are contiguous with or contain intermittent or perennial streams. However, lots of record of less than one-half acre in size shall not be subject to ~~20.04.030(e)(6)~~~~20.04.030(f)(6)~~ (Intermediate Zone) nor ~~20.04.030(e)(7)~~~~20.04.030(f)(7)~~ (Fringe Zone) of this section.
- (B) Any new, non-single-family development that is exempt from providing riparian buffer zones as outlined in ~~20.04.030(e)(1)~~~~20.04.030(f)(1)~~, shall provide at least a 25-foot wide streamside buffer zone in compliance with the design standards of ~~20.04.030(e)(5)~~~~20.04.030(f)(5)~~. Additionally, two of the following best management practices, including plans for post-installation maintenance of such practices, shall be incorporated into the site design:
 - i. Use of 100 percent native vegetation;
 - ii. Use of permeable pavement for 100 percent of all the on-site parking areas;
 - iii. Biofiltration swales; or
 - iv. 50 percent vegetated roof.

(2) Adjacent Properties

Where intermittent or perennial streams are present on adjacent properties, and where required buffer zones for such streams would extend onto the subject property, the buffer zones required by this subsection ~~(e)(f)~~ shall be established.

(3) Easements

All riparian buffer zones required to be preserved subject to this subsection ~~(e)(f)~~ shall be placed within riparian buffer easements pursuant to the standards of Section 20.05.040 (Easements).

(4) Graduated Buffer Zones

All intermittent or perennial streams shall be protected by a riparian buffer composed of three distinct zones. These zones shall be defined as:

(A) Streamside Zone (Zone 1).

The primary function of the streamside zone is to ensure stream-bank stabilization.

(B) **Intermediate Zone (Zone 2)**

The primary function of the intermediate zone is to protect soil particles that trap nutrients and chemicals.

(C) **Fringe Zone (Zone 3).**

The primary function of the fringe zone is to filter runoff, and to maximize infiltration, water storage, and nutrient absorption.

(5) **Streamside Zone Design**

The streamside zone (Zone 1) shall be designed as follows:

(A) **Location**

Immediately adjacent to the stream channel.

(B) **Buffer Width**

The width of this zone shall be a minimum of 25 feet on each side of the stream, measured from the centerline of the stream.

(C) **Vegetation Requirements**

All vegetative cover within this zone shall consist of undisturbed, existing vegetation, except that invasive and nonnative plants may be removed with permission from the Planning and Transportation Department. In cases where little or no existing vegetation is present, only native, water tolerant species shall be planted. Acceptable species for planting within buffer zones are listed in Section 20.04.080(d) (Permitted Plant Species). Plant spacing and density for new vegetation within buffer zones shall comply with current preferred practices for each plant type.

(D) **Disturbance Activities**

Only the following land disturbance activities may be allowed within this zone, subject to approval of the City Planning and Transportation Department:

- i. Utility installation; if no alternative location is available;
- ii. Street crossings, where necessary to achieve connectivity;
- iii. Bicycle and/or pedestrian crossings, where necessary to achieve connectivity;
- iv. Connector path and multi-use trail constructed with a permeable surface.

(6) **Intermediate Zone Design**

The intermediate zone (Zone 2) shall be designed as follows:

(A) **Location**

Immediately outside the streamside zone (Zone 1).

(B) **Buffer Width**

The required width shall be a minimum 25 feet on each side, measured perpendicularly from the outer boundary of Zone 1.

(C) **Vegetation Requirements**

Vegetative cover within this zone shall consist of undisturbed, existing vegetation, supplemented by native, groundcover and edge vegetation except that invasive and non-native plants may be removed with permission from the Planning and Transportation Department. In cases where little or no existing vegetation is present, only native, water tolerant species shall be planted. Appropriate species for planting within buffer zones are listed in Section 20.04.080(d) (Permitted Plant Species). Plant spacing and density for new vegetation within buffer zones shall comply with current preferred practices for each plant type.

(D) **Disturbance Activities**

Only the following land-disturbing activities may be allowed within this zone, subject to approval of the Planning and Transportation Department:

- i. All activities allowed in Zone 1 (streamside zone); and
- ii. Stormwater management facilities.

(7) **Fringe Zone Design**

The fringe zone (Zone 3) shall be designed as follows:

(A) **Location**

Immediately outside the intermediate zone (Zone 2).

(B) **Buffer Width**

The required width shall be a minimum of 25 feet measured perpendicular from the outer boundary of Zone 2.

(C) **Vegetation Requirements**

The vegetative cover for the outer zone shall be native grasses, sedges, and forbs that perform phytofiltration, except that invasive and non-native plants may be removed with permission from the Planning and Transportation Department. In addition, woody plants may be utilized where appropriate. Appropriate species for planting within buffer zones are listed in Section 20.04.080(d) (Permitted Plant Species). Plant spacing and density for new vegetation within buffer zones shall comply with current preferred practices for each plant type.

(D) **Disturbance Activities**

Only the following land-disturbance activities may be allowed within this zone, subject to approval of the City Planning and Transportation Department:

- i. All activities allowed within Zones 1 and 2.
- ii. Streets, as needed to achieve connectivity where no reasonable alternative route can be identified and where a need for new streets has been established, as required by adopted City regulations and Common Council policy.

(8) **Additional Riparian Buffer Design Standards**

- (A) Riparian buffer design shall be fitted to the topography and soil conditions of the site. Preference shall be given to preserving existing vegetation within riparian buffer areas. Protection of tree crowns and root zones within the dripline shall be required for all trees planned for retention.

- (B) Temporary vegetation, sufficient to stabilize the soil, may be required on all disturbed areas as needed to prevent soil erosion. New plantings shall be given sufficient water and protection to ensure reestablishment.
- (C) In order to ensure vegetative diversity, a minimum of nine different plant species shall be used within the overall riparian buffer area. At least three of these species shall be trees selected from Section 20.04.080(d) (Permitted Plant Species).
- (D) No alteration to the shoreline or bed of a stream or creek shall be made unless written approval is obtained from the appropriate governmental agencies. Alterations subject to this requirement include, but are not limited to, filling, damming, or dredging of a stream, creek, ditch, or wetland.

(9) Riparian Buffer Maintenance

Management of riparian buffers shall be limited to the minimum necessary, with no alterations of forest understory, except for the removal of nonnative or invasive species. Limited mowing may occur in Zone 3 but shall be prohibited in Zones 1 and 2.

~~(g)~~(f) Karst Geology

(1) Applicability

- (A) This section shall apply to all land-disturbing activities on properties that contain surface and subsurface karst features.
- (B) In the event an undetected karst feature is formed on a developed lot or parcel, the Planning and Transportation Director may authorize emergency remediation measures subject to guidance from the City Senior Environmental Planner.

(2) Adjacent Properties

Where surface or subsurface karst features are present on adjacent properties, and where required conservation areas for such karst features would extend onto the subject property, the buffer zones required by this subsection ~~(f)(g)~~ shall be established.

(3) Compound Karst Features

For the purposes of this subsection, compound karst features shall be defined as any two or more karst features where the last closed contour of the features are located within 100 feet of each other. The outer boundary of the compound karst feature shall be drawn by connecting the last closed contour at its widest point of each individual karst feature with a tangential line.

(4) Karst Conservancy Easement (KCE)

All karst features shall be protected by Karst Conservancy Easements (KCE). Such easements shall be established in accordance with the following standards:

- (A) No land-disturbing activity, permanent or temporary structures, or the placement of any fill material shall be allowed within a KCE.
- (B) The outer perimeter of the KCE shall be protected with silt fencing and/or tree protection fencing during the entire period of construction.

- (C) For all individual karst features, the KCE shall encompass the entire feature and all of the area within 25 feet horizontally from the last closed contour line of the feature. The last closed contour line shall be as shown on the City's geographic information system (GIS) using a contour interval of two feet. When the City has reason to doubt the accuracy of the GIS data, the City shall use field verification to determine the location of the last closed contour.
 - (D) For all compound karst features, the KCE shall encompass the entire outer boundary of the compound karst feature as defined in ~~20.04.030(f)(3)~~ ~~20.04.030(g)(3)~~ above and all of the area within 25 feet horizontally from the outer boundary of the compound karst feature.
- (5) **Setback**
No structures shall be located within 10 feet of a Karst Conservancy Easement.
 - (6) **Stormwater Discharge**
Stormwater discharge into a karst feature shall not be increased over, or substantially reduced below its pre-development rate.
 - (7) **Stormwater Detention**
Karst Conservancy Easements shall not be used for stormwater detention. Drainage shall be designed to route runoff through vegetative filters or other filtration measures before entering a karst feature.
 - (8) **Disturbance**
No land-disturbing activity, mowing, or temporary or permanent structure shall be allowed within the sinkhole nor within 25 feet of the last closed contour of the sinkhole.
 - (9) **Spring or Cave Entrances**
Spring or cave entrances shall not be modified except for the placement of a gate to prevent human access.

~~(h)~~(g) Wetlands

- (1) **Applicability**
This section shall apply to all land-disturbing activities on properties containing wetlands.
- (2) **Adjacent Properties**
Where wetlands are present on adjacent properties, and where required buffer areas for such wetlands would extend onto the subject property, the buffer zones required by this subsection ~~(g)(h)~~ shall be established.
- (3) **Compliance with Other Regulations Also Required**
In addition to the standards of this UDO, all determined and delineated jurisdictional wetlands subject to disturbance shall be governed by Indiana Department of Natural Resources (DNR), Indiana Department of Environmental Management (IDEM), and Army Corps of Engineers regulations.
- (4) **Disturbance**
No land-disturbing activity, mowing, or temporary or permanent structure shall be allowed within 25 feet of a wetland.

(5) Wetland Conservancy Easement

A wetland buffer area extending 25 feet from a delineated wetland shall be placed within a conservancy easement consistent with the standards of Section 20.05.040 (Easements) and shall be protected with silt fencing, tree protection fencing, or both, during the entire period of construction.

(6) Draining

Draining of a delineated wetland is prohibited.

(7) Stormwater Discharge

Stormwater discharge into a wetland shall not be increased over, or substantially reduced below, its preexisting rate.

(+)(h) Tree and Forest Preservation

(1) Applicability

This section shall apply to all land-disturbing activities on properties containing closed-canopy wooded areas.

(2) Retention of Existing Canopy

The following table shall be used to determine the minimum amount of existing vegetation canopy that must be retained during land-disturbance activity.

Table 04-8: Minimum Required Vegetation Canopy

Baseline Canopy Cover	Retained Canopy Cover
80—100%	0.50 × Baseline canopy cover
60—79%	0.60 × Baseline canopy cover
40—59%	0.70 × Baseline canopy cover
20—39%	0.80 × Baseline canopy cover
0—19%	0.90 × Baseline canopy cover

Example:

For a property of 20 acres with 50 percent canopy cover (i.e., 10 acres), a development would be required to maintain at least seven acres (10 acres × 0.70) of canopy cover.

(3) Preference to Stands of Vegetation

The retention standards outlined above shall be applied to retain high-quality stands of native trees, undisturbed woodlands, and corridors of contiguous vegetation in priority over individual specimen trees, or younger stands of vegetation. No more than 10 percent of the canopy retention standard shall be met by preserving individual trees not included within preferred wooded areas as defined in this subsection ~~(h)(+)~~. Where individual specimen trees are to be preserved, preference shall be given to protecting heritage trees that are of particular value due to their type, size or age.

(4) Smaller Parcels

For parcels of land less than two acres, the preservation standards in Table 04-8: Minimum Required Vegetation Canopy, may be altered by the City Planning and Transportation Director to allow preservation of individual specimen trees or tree lines along property borders in lieu of the minimum required vegetation canopy.

(5) Overlapping Preservation Areas

Where acreage set aside to fulfill the conservation or buffer requirements found in 20.04.030(c), ~~20.04.030(d)~~~~20.04.030(e)~~, ~~20.04.030(f)~~~~20.04.030(g)~~, and ~~20.04.030(g)~~~~20.04.030(h)~~ also meets the requirements for tree and forest preservation under ~~20.04.030(h)(2)~~~~20.04.030(i)(2)~~, such acreage shall be counted toward fulfillment of all applicable requirements.

(6) Conservancy or Tree Preservation Easement

Where contiguous areas of at least 8,712 square feet (0.20 acres) of tree cover are required to be preserved, a conservancy and/or tree preservation easement shall be required per Section 20.05.040 (Easements). The edges of such easements shall be delineated 10 feet beyond the driplines of the trees to be preserved.

(7) Tree Protection During Construction

A tree protection zone shall be installed per Section 20.04.080(c)(3) and inspected by the Planning and Transportation Department prior to any land-disturbing activities. The tree protection zone and the tree protection barrier shall remain undamaged and unmoved during the entire duration of construction. If a petitioner believes the conditions of a tree protection zone cannot be established, they shall contact the Planning and Transportation Department and the Urban Forester in order to develop an individual plan for tree protection.

Lake Watershed Areas

(1) Applicability

This section shall apply to all land-disturbing activities on properties located within the watersheds of Lake Monroe and Griffy Lake as delineated on the City's geographic information system (GIS).

(2) Exception

Single-family, duplex, triplex, fourplex, mobile home, and manufactured home dwellings on existing lots of record shall not be subject to the requirements of this section.

(3) Geotechnical Report

When required by the Planning and Transportation Director, based on potential development impacts, site plans, subdivision plats, and Planned Unit Development plans shall include a report prepared by a geotechnical consultant that addresses soil stabilization, erosion/siltation control and stormwater runoff quality. The geotechnical consultant who prepares the required report shall be a licensed professional engineer.

(4) Site Design

Site design shall locate structures and land-disturbing activities so as to avoid tree concentrations. Streets, parking areas, and building pads shall conform closely to existing contours and minimize grading.

(5) Steep Slopes

The maximum slope on which buildings may be constructed shall be 12 percent. No disturbance shall occur on any slope greater than 12 percent, measured as described in Section 20.04.020 (Dimensional Standards).

(6) Redundant Stormwater Quality Measures

Sites greater than one acre shall incorporate redundant stormwater runoff quality mitigation measures. The ongoing maintenance of these measures shall be ensured through a binding, recordable commitment that provides for all the following:

- (A) Periodic third-party inspection and report;
- (B) A homeowner's association with financing capability;
- (C) City authorization to order maintenance;
- (D) City authorization to seek injunctive relief;
- (E) City authorization to perform necessary maintenance and charge the homeowner's association for such work; and
- (F) Provisions, meeting the standards of the administrative manual, for responsibility of individual lot owners in the event the owners' association fails or refuses to perform.

20.04.040 Floodplain

(a) Purpose

The flood hazard areas of the City of Bloomington are subject to periodic inundation which results in loss of life and property, health and safety hazards, disruption of commerce and governmental services, extraordinary public expenditures for flood protection and relief, and impairment of the tax base, all of which adversely affect the public health, safety, and general welfare. Additionally, structures that are inadequately elevated, floodproofed, or otherwise protected from flood damage also contribute to the flood loss. In order to minimize the threat of such damages and to achieve the purposes hereinafter set forth, these regulations are adopted. It is the purpose of this ordinance to promote the public health, safety, and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:

- (1) Protect human life and health;
- (2) Minimize expenditure of public money for costly flood control projects;
- (3) Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- (4) Minimize prolonged business interruptions;
- (5) Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone, and sewer lines, streets, and bridges located in floodplains;
- (6) Help maintain a stable tax base by providing for the sound use and development of flood prone areas in such a manner as to minimize flood blight area;
- (7) Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions;
- (8) Minimize the impact of development on adjacent properties within and near flood prone areas;
- (9) Ensure that the flood storage and conveyance functions of the floodplain are maintained;

- (10) Minimize the impact of development on the natural, beneficial values of the floodplain;
- (11) Prevent floodplain uses that are either hazardous or environmentally incompatible;
- (12) Meet community participation requirements of the National Flood Insurance Program;
- (13) Restricting or prohibiting uses which are dangerous to health, safety, and property due to water hazards, or which result in damaging increases in flood heights or velocities;
- (14) Requiring that uses vulnerable to floods, including facilities, which serve such uses, be protected against flood damage at the time of initial construction;
- (15) Controlling the alteration of natural floodplains, stream channels, and natural protective barriers, which help accommodate or channel flood waters;
- (16) Controlling filling, grading, dredging, excavating, and other development which may increase flood damage; and,
- (17) Preventing or regulating the construction of flood barriers, which will unnaturally divert flood, waters or which may increase flood hazards in other areas.

(b) Applicability

- (1) This Section 20.04.040 (Floodplain) shall apply to all areas of special flood hazard (SFHAs) within the jurisdiction of the City of Bloomington, Indiana including any additional areas of special flood hazard annexed by the City of Bloomington, Indiana.
- (2) No structure shall hereafter be located, extended, converted or structurally altered within the SFHA without full compliance with the terms of this UDO and other applicable regulations.
- (3) No land or stream within the SFHA shall hereafter be altered without full compliance with the terms of this UDO and other applicable regulations.

(c) General Standards

(1) Basis for Establishing the Areas of Special Flood Hazard

- (A) The regulatory flood elevation, floodway, and fringe limits for the studied SFHAs within the jurisdiction of the City, delineated as an "AE Zone" on the Flood Insurance Study dated December 17, 2010 and the Flood Insurance Rate Map dated December 17, 2010 shall be determined from the one-percent annual chance flood profiles in the Flood Insurance Study of the City of Bloomington, Indiana and the corresponding Flood Insurance Rate Maps (FIRM) dated December 17, 2010 as well as any subsequent updates, amendments, or revisions, prepared by the Federal Emergency Management Agency with the most recent date. Should the floodway limits not be delineated on the Flood Insurance Rate Map for a studied SFHA designated as an "AE Zone", the limits of the floodway will be according to the best available flood layer as provided by the Indiana Department of Natural Resources.

- (B) The regulatory flood elevation, floodway, and fringe limits for each of the SFHAs within the jurisdiction of the City, delineated as an "A Zone" on the Flood Insurance Study dated December 17, 2010 and the Flood Insurance Rate Map, dated December 17, 2010, as well as any subsequent updates, amendments, or revisions, prepared by the Federal Emergency Management Agency with the most recent date, shall be according to the best available flood layer provided by the Indiana Department of Natural Resources, provided the upstream drainage area from the subject site is greater than one square mile. Whenever a party disagrees with the best available flood layer data, the party needs to replace existing data with better data that meets current engineering standards. To be considered, this data must be submitted to the Indiana Department of Natural Resources for review and subsequently approved.
- (C) In the absence of a published FEMA map, or absence of identification on a FEMA map, the regulatory flood elevation, floodway, and fringe limits of any watercourse in the community's known flood prone areas shall be according to the best available flood layer as provided by the Indiana Department of Natural Resources, provided the upstream drainage area from the subject site is greater than one square mile.
- (D) Upon issuance of a Letter of Final Determination (LFD), any more restrictive data in the new (not yet effective) mapping/study shall be utilized for permitting and construction (development) purposes, replacing all previously effective less restrictive flood hazard data provided by FEMA.

(2) Establishment of Floodplain Development Permit

A floodplain development permit shall be required in conformance with the provisions of this ordinance prior to the commencement of any development activities in areas of special flood hazard as established in Section 20.06.050(d).

(3) Compliance

- (A) No structure shall hereafter be located, extended, converted, or structurally altered within the SFHA without full compliance with the terms of this ordinance and other applicable regulations.
- (B) Where an existing or proposed structure or other development is affected by multiple flood zones, by multiple base flood elevations, or both, the development activity must comply with the provisions of this ordinance applicable to the most restrictive flood zone and the most conservative (highest) base flood elevation affecting any part of the existing or proposed structure; or for other developments, affecting any part of the area of the development.
- (C) No land or stream within the SFHA shall hereafter be altered without full compliance with the terms of this ordinance and other applicable regulations.

(4) Abrogation and Greater Restrictions

This section is not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this section and another conflict or overlap, whichever imposes the more stringent restrictions shall prevail.

(5) Discrepancy between Mapped Floodplain and Actual Ground Elevations

- (A) In cases where there is a discrepancy between the mapped floodplain (SFHA) with base flood elevations provided (riverine or lacustrine Zone AE) on the FIRM and the actual ground elevations, the elevation provided on the profile or table of still water elevations shall govern.
- (B) If the elevation of the site in question is below the base flood elevation, that site shall be included in the SFHA and regulated accordingly.
- (C) If the natural grade elevation of the site in question is at or above the base flood elevation and a LOMA or LOMR-FW is obtained, the floodplain regulations will not be applied provided the LOMA or LOMR-FW is not subsequently superseded or invalidated.

(6) Interpretation

- (A) In the interpretation and application of this ordinance all provisions shall be:
 - i. Considered as minimum requirements;
 - ii. Liberally construed in favor of the governing body; and
 - iii. Deemed neither to limit nor repeal any other powers granted under state statutes.

(7) Warning and Disclaimer of Liability

The degree of flood protection required by this UDO is considered reasonable for regulatory purposes and is based on available information derived from engineering and scientific methods of study. Larger floods can and will occur on rare occasions. Therefore, this UDO does not create any liability on the part of the City of Bloomington, the Indiana Department of Natural Resources, or the State of Indiana, for any flood damage that results from reliance on this UDO or any administrative decision made lawfully thereunder.

(8) Penalties for Violation

Failure to obtain a Floodplain Development Permit in the SFHA or failure to comply with the requirements of a Floodplain Development Permit or conditions of a variance shall be deemed to be a violation of this ordinance. All violations shall be considered a common nuisance and be treated as such in accordance with the provisions of the Zoning Code for the City.

- (A) The City shall inform the owner that any such violation is considered a willful act to increase flood damages and therefore may cause coverage by a Standard Flood Insurance Policy to be suspended.
- (B) Nothing herein shall prevent the City from taking such other lawful action to prevent or remedy any violations. All costs connected therewith shall accrue to the person or persons responsible.

(d) Administration

(1) Designation of Administrator

The Common Council of the City of Bloomington hereby appoints the Planning Director (or their designee) to administer and implement the provisions of this ordinance and is herein referred to as the Floodplain Administrator.

(2) Floodplain Development Permit and Certification Requirements

An application for a floodplain development permit shall be made to the Floodplain Administrator for all development activities located wholly within, partially within, or in contact with an identified special flood hazard area. Such application shall be made by the owner of the property or his/her authorized agent, herein referred to as the applicant, prior to the actual commencement of such construction on a form furnished for that purpose. Such applications shall include, but not be limited to plans drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, earthen fill, storage of materials or equipment, drainage facilities, and the location of the foregoing. Specifically, the following information is required:

(A) Application Stage.

- i. A description of the proposed development;
- ii. Location of the proposed development sufficient to accurately locate property and structure(s) in relation to existing roads and streams;
- iii. A legal description of the property site;
- iv. For the reconstruction, rehabilitation, or improvement of an existing structure, or an addition to an existing building, a detailed quote and description of the total work to be completed

including but not limited to interior work, exterior work, and labor as well as a certified valuation of the existing (pre-improved or pre-damaged) structure;

- v. A site development plan showing existing and proposed development locations and existing and proposed land grades;
- vi. verification that connection to either a public sewer system or to an approved on-site septic system is available and approved by the respective regulatory agency for proposed structures to be equipped with a restroom, kitchen or other facilities requiring disposal of wastewater.
- vii. Plans showing elevation of the top of the planned lowest floor (including basement) of all proposed structures in Zones A, AE. Elevation should be in NAVD 88;
- viii. Plans showing elevation (in NAVD 88) to which any non-residential structure will be floodproofed;
- ix. Plans showing location and specifications for flood openings for any proposed structure with enclosed areas below the flood protection grade;
- x. Plans showing materials to be used below the flood protection grade for any proposed structure are flood resistant;
- xi. Plans showing how any proposed structure will be anchored to resist flotation or collapse;
- xii. Plans showing how any electrical, heating, ventilation, plumbing, air conditioning equipment and other service facilities are designed and/or located. Elevation should be in NAVD 88;
- xiii. Description of the extent to which any watercourse will be altered or relocated as a result of proposed development. A hydrologic and hydraulic engineering analysis is required, and any watercourse changes submitted to DNR for approval. Once DNR approval is obtained, a FEMA Conditional Letter of Map Revision must be obtained prior to construction. (See Section 20.04.040(d)(3)(H) and Section 20.04.040(d)(5) for additional information.)
- xiv. Any additional information, as requested by the Floodplain Administrator, which may be necessary to determine the disposition of a proposed development or structure with respect to the requirements of this ordinance.

(B) Finished Construction.

- i. Upon completion of construction of any structure requiring certification of elevation, an elevation certificate which depicts the "as-built" lowest floor elevation and other applicable elevation data is required to be submitted by the applicant to the Floodplain Administrator. The elevation certificate shall be prepared by or under the direct supervision of a registered land surveyor and certified by the same.
- ii. Upon completion of construction of an elevated structure constructed on fill, a fill report is required to be submitted to the Floodplain Administrator to verify the required standards were met, including compaction.
- iii. Upon completion of construction of a floodproofing measure, a floodproofing certificate is required to be submitted by the applicant to the Floodplain Administrator. The floodproofing certificate shall be prepared by or under the direct supervision of a registered professional engineer or architect and certified by same.

(3) **Duties and Responsibilities of the Floodplain Administrator**

The Floodplain Administrator and/or designated staff is hereby authorized and directed to enforce the provisions of this ordinance. The administrator is further authorized to render interpretations of this ordinance, which are consistent with its spirit and purpose.

Duties and Responsibilities of the Floodplain Administrator shall include, but are not limited to:

- (A) Enforce the provisions of this ordinance.
- (B) Evaluate application for permits to develop in special flood hazard areas to assure that the permit requirements of this ordinance have been satisfied.
- (C) Interpret floodplain boundaries and provide flood hazard and flood protection elevation information.
- (D) Issue permits to develop in special flood hazard areas when the provisions of these regulations have been met or refuse to issue the same in the event of noncompliance.
- (E) Advise permittee that additional Federal, State and/or local permits may be required. If specific Federal, State and/or local permits are known, require that copies of such permits be provided and maintained on file with the floodplain development permit.
- (F) Conduct substantial damage determinations to determine whether existing structures, damaged from any source and in special flood hazard areas, must meet the development standards of these regulations.
- (G) For applications to improve structures, including alterations, movement, enlargement, replacement, repair, change of occupancy, additions, rehabilitations, renovations, substantial improvements, repairs of substantial damage, and any other improvement of or work on such buildings and structures, the Floodplain Administrator shall:
 - i. Verify and document the market value of the pre-damaged or pre-improved structure;

- ii. Compare the cost to perform the improvement; or the cost to repair a damaged building to its pre-damaged condition; or, the combined costs of improvements and repair, if applicable, to the market value of the pre-damaged or pre-improved structure. The cost of all work must be included in the project costs, including work that might otherwise be considered routine maintenance. Items/activities that must be included in the cost shall be in keeping with guidance published by FEMA to ensure compliance with the NFIP and to avoid any conflict with future flood insurance claims of policyholders within the community;
 - iii. Determine and document whether the proposed work constitutes substantial improvement or repair of substantial damage; the determination requires evaluation of previous permits issued for improvements and repairs as specified in the definition of "substantial improvement" for proposed work to repair damage caused by flood, the determination requires evaluation of previous permits issued to repair flood-related damage as specified in the definition of substantial damage; and
 - iv. Notify the applicant if it is determined that the work constitutes substantial improvement or repair of substantial damage and that compliance with the applicable general and specific standards in Section 20.04.040(e) of this ordinance are required.
- (H) Notify adjacent communities and the State Floodplain Coordinator prior to any alteration or relocation of a watercourse and submit copies of such notifications to FEMA.
 - (I) Ensure that construction authorization has been granted by the Indiana Department of Natural Resources for all development projects subject to Section 20.04.040(e)(2)(A), 20.04.040(e)(2)(C)(i), and Section 20.04.040(e)(2)(D) of this ordinance. Maintain a record of such authorization (either copy of actual permit/authorization or floodplain analysis/regulatory assessment).
 - (J) Verify the upstream drainage area of any proposed development site near any watercourse not identified on a FEMA map to determine if Section 20.04.040(d)(3)(I) is applicable.
 - (K) Assure that maintenance is provided within the altered or relocated portion of said watercourse so that the flood-carrying capacity is not diminished.
 - (L) Verify and record the actual elevation of the lowest floor (including basement) of all new or substantially improved structures, in accordance with Section 20.04.040(d)(2).
 - (M) Verify and record the actual elevation to which any new or substantially improved structures have been floodproofed in accordance with Section 20.04.040(d)(2).
 - (N) Make on-site inspections of projects in accordance with Section 20.04.040(d)(4).
 - (O) Coordinate with insurance adjusters prior to permitting any proposed work to bring any flood-damaged structure covered by a standard flood insurance policy into compliance (either a substantially damaged structure or a repetitive loss structure) to ensure eligibility for ICC funds.
 - (P) Ensure that an approved connection to a public sewer system or an approved on-site septic system is planned for any structures (residential or non-residential) to be equipped with a restroom, kitchen or other facilities requiring disposal of wastewater.
 - (Q) Provide information, testimony, or other evidence as needed during variance hearings.
 - (R) Serve notices of violations, issue stop-work orders, revoke permits and take corrective actions in accordance with Section 20.04.040(d)(4).

- (S) Maintain for public inspection and furnish upon request local permit documents, damaged structure inventories, substantial damage determinations, regulatory flood data, SFHA maps, Letters of Map Change (LOMC), copies of DNR permits, letters of authorization, and floodplain analysis and regulatory assessments (letters of recommendation), federal permit documents, and "as-built" elevation and floodproofing data for all buildings constructed subject to this ordinance in accordance with Section 20.04.040(d)(4).
- (T) Coordinate map maintenance activities and associated FEMA follow-up in accordance with Section 20.04.040(d)(5).
- (U) Utilize and enforce all Letters of Map Change (LOMC) or Physical Map Revisions (PMR) issued by FEMA for the currently effective SFHA maps of the community.
- (V) Request any additional information which may be necessary to determine the disposition of a proposed development or structure with respect to the requirements of this ordinance.

(4) Administrative Procedures

- (A) Inspections of Work in Progress. As the work pursuant to a permit progresses, the floodplain administrator shall make as many inspections of the work as may be necessary to ensure that the work is being done according to the provisions of the local ordinance and terms of the permit. In exercising this power, the administrator has a right, upon presentation of proper credential, to enter on any premises within the territorial jurisdiction at any reasonable hour for the purposes of inspection or other enforcement action.
- (B) Stop Work Orders.
 - i. Upon notice from the floodplain administrator, work on any building, structure or premises that is being done contrary to the provisions of this ordinance shall immediately cease.
 - ii. Such notice shall be in writing and shall be given to the owner of the property, or to his agent, or to the person doing the work, and shall state the conditions under which work may be resumed.
- (C) Revocation of Permits.
 - i. The floodplain administrator may revoke a permit or approval, issued under the provisions of this ordinance, in cases where there has been any false statement or misrepresentation as to the material fact in the application or plans on which the permit or approval was based.
 - ii. The floodplain administrator may revoke a permit upon determination by the floodplain administrator that the construction, erection, alteration, repair, moving, demolition, installation, or replacement of the structure for which the permit was issued is in violation of, or not in conformity with, the provisions of this ordinance.
- (D) Floodplain Management Records.
 - i. Regardless of any limitation on the period required for retention of public records, records of actions associated with the administration of this ordinance shall be kept on file and maintained under the direction of the Floodplain Administrator in perpetuity. These records include permit applications, plans, certifications, Flood Insurance Rate Maps; Letter of Map

Change; records of issuance of permits and denial of permits; determinations of whether proposed work constitutes substantial improvement or repair of substantial damage; required design certifications and documentation of elevations required by this ordinance; notifications to adjacent communities, FEMA, and the state related to alterations of watercourses; assurances that the flood carrying capacity of altered watercourses will be maintained; documentation related to appeals and variances, including justification for issuance or denial; and records of enforcement actions taken pursuant to this ordinance.

- ii. These records shall be available for public inspection at the City of Bloomington Planning and Transportation Department.

- (E) Periodic Inspection. Once a project is completed, periodic inspections may be conducted by the Floodplain Administrator to ensure compliance. The Floodplain Administrator shall have a right, upon presentation of proper credential, to enter on any premises within the territorial jurisdiction of the department at any reasonable hour for the purposes of inspection or other enforcement action.

(5) Map Maintenance Activities

To meet NFIP minimum requirements to have flood data reviewed and approved by FEMA, and to ensure that Bloomington's flood maps, studies and other data identified in Section 20.04.040(c)(1) accurately represent flooding conditions so appropriate floodplain management criteria are based on current data, the following map maintenance activities are identified:

(A) Requirement to Submit New Technical Data

- i. For all development proposals that impact floodway delineations or base flood elevations, the community shall ensure that technical data reflecting such changes be submitted to FEMA within six months of the date such information becomes available. These development proposals include:
 - a. Floodway encroachments that increase or decrease base flood elevations or alter floodway boundaries;
 - b. Fill sites to be used for the placement of proposed structures where the applicant desires to remove the site from the special flood hazard area;
 - c. Alteration of watercourses that result in a relocation or elimination of the special flood hazard area, including the placement of culverts; and Subdivision or large-scale development proposals requiring the establishment of base flood elevations.
- ii. It is the responsibility of the applicant to have required technical data for a Conditional Letter of Map Revision or Letter of Map Revision and submitted to FEMA. The Indiana Department of Natural Resources will review the submittals as part of a partnership with FEMA. The submittal should be mailed to the Indiana Department of Natural Resources at the address provided on the FEMA form (MT-2) or submitted through the online Letter of Map Change website. Submittal and processing fees for these map revisions shall be the responsibility of the applicant.

- iii. The Floodplain Administrator shall require a Conditional Letter of Map Revision prior to the issuance of a floodplain development permit for proposed floodway encroachments that increase the base flood elevation.
- iv. Floodplain development permits issued by the Floodplain Administrator shall be conditioned upon the applicant obtaining a Letter of Map Revision from FEMA for any development proposal subject to this section.

(B) Right to Submit New Technical Data

The Floodplain Administrator may request changes to any of the information shown on an effective map that does not impact floodplain or floodway delineations or base flood elevations, such as labeling or planimetric details. Such a submission shall include appropriate supporting documentation made in writing by the City of Bloomington Planning and Transportation Department Director and may be submitted to FEMA at any time.

(C) Annexation / Detachment

Upon occurrence, the Floodplain Administrator shall notify FEMA in writing whenever the boundaries of the Bloomington have been modified by annexation or the community has assumed authority over an area, or no longer has authority to adopt and enforce floodplain management regulations for a particular area. In order that the City of Bloomington's Flood Insurance Rate Map accurately represent Bloomington's boundaries, include within such notification a copy of a map of Bloomington suitable for reproduction, clearly showing the new corporate limits or the new area for which Bloomington has assumed or relinquished floodplain management regulatory authority.

(e) Provisions for Flood Hazard Reduction

All development shall comply with the provisions of this Section 20.04.040(e). Petitions for new or revised subdivisions shall also comply with the standards in Section 20.05.050(c).

(1) Conditional Uses

The following are conditional uses in the flood fringe, subject to approval under Section 20.06.050(b) (Conditional Use Permit).

- (A) Transportation facilities, including, but not limited to, bridges, streets or drives;
- (B) Any other flood-tolerant or open space uses, such as storage of materials not subject to flood damage that do not contain hazardous pollutants;
- (C) Parking lots constructed solely of permeable pavers;
- (D) Recreational equipment; and
- (E) Buildings/structures.

(2) Floodplain Status Standards

(A) Standards for Identified Floodways (Riverine)

Located within SFHAs, established in Section 20.04.040(c)(1), are areas designated as floodways. The floodway is an extremely hazardous area due to the velocity of floodwaters, which carry debris, potential projectiles, and has erosion potential. Under the provisions of the Flood Control Act (IC 14-28-1) a permit for construction in a floodway from the Indiana Department of Natural Resources is required prior to the issuance of a local building permit for any excavation, deposit,

construction, or obstruction activity located in the floodway. This includes land preparation activities such as filling, grading, clearing, and paving undertaken before the actual start of construction of the structure. General licenses and exemptions to the requirements of the Flood Control Act (IC 14-28-1 and 312 IAC 10) may apply to qualified additions/improvements to existing lawful residential structures, rural bridges, logjam removals, wetland restoration, utility line crossings, outfall projects, creek rock removal, and prospecting.

- i. If the site is in a regulatory floodway as established in Section 20.04.040(c)(1), the Floodplain Administrator shall require the applicant to forward the application, along with all pertinent plans and specifications, to the Indiana Department of Natural Resources and apply for approval for construction in a floodway, provided the activity does not qualify for a general license or exemption (IC 14-28-1 or 312 IAC 10).
- ii. No action shall be taken by the Floodplain Administrator until approval has been granted by the Indiana Department of Natural Resources for construction in the floodway, or evidence provided by an applicant that the development meets specified criteria to qualify for a general license or exemption to the requirement of the Flood Control Act. The Floodplain Development Permit shall meet the provisions contained in this article.
- iii. The Floodplain Development Permit cannot be less restrictive than an approval issued for construction in a floodway issued by the Indiana Department of Natural Resources, or the specified criteria used to qualify for a general license or exemption to the Flood Control Act for a specific site/project. However, a community's more restrictive regulations (if any) shall take precedence.
- iv. In floodway areas identified on the FIRM, development shall cause no increase in flood levels during the occurrence of the base flood discharge without first obtaining a Conditional Letter of Map Revision and meeting requirements of Section 20.04.040(d)(5)(A). A Conditional Letter of Map Revision cannot be issued for development that would cause an increase in flood levels affecting a structure and such development should not be permitted.
- v. In floodway areas identified by the Indiana Department of Natural Resources through detailed or approximate studies but not yet identified on the effective FIRM as floodway areas, the total cumulative effect of the proposed development, when combined with all other existing and anticipated development, shall not adversely affect the efficiency of, or unduly restrict the capacity of the floodway. This adverse effect is defined as an increase in the elevation of the regulatory flood of at least fifteen-hundredths (0.15) of a foot as determined by comparing the regulatory flood elevation under the project condition to that under the natural or pre-floodway condition as proven with hydraulic analyses.
- vi. For all projects involving channel modifications or fill (including levees) the City shall submit the data and request that the Federal Emergency Management Agency revise the regulatory flood data per mapping standard regulations found at 44 CFR § 65.12.

(B) Standards for Identified Fringe (Riverine)

If the site is in the fringe (either identified on the FIRM or identified by the Indiana Department of Natural Resources through detailed or approximate studies and not identified on a FIRM), the Floodplain Administrator may issue the local Floodplain Development Permit provided the provisions contained in this article have been met.

(C) Standards for SFHAs without Established Base Flood Elevation and/or Floodways/Fringes (Riverine)

- i. Drainage area upstream of the site is greater than one square mile:

If the site is in an identified floodplain where the limits of the floodway and fringe have not yet been determined, and the drainage area upstream of the site is greater than one square mile, the Floodplain Administrator shall require the applicant to forward the application, along with all pertinent plans and specifications, to the Indiana Department of Natural Resources for review and comment.

No action shall be taken by the Floodplain Administrator until written approval from the Indiana Department of Natural Resources (approval for construction in a floodway, letter of authorization, or evidence of general license qualification) or a floodplain analysis/regulatory assessment citing the one-percent annual chance flood elevation and the recommended Flood Protection Grade has been received from the Indiana Department of Natural Resources.

Once the Floodplain Administrator has received the proper written approval, evidence of general license qualification, or floodplain analysis/regulatory assessment approving the proposed development from the Indiana Department of Natural Resources, a Floodplain Development Permit may be issued, provided the conditions of the Floodplain Development Permit are not less restrictive than the conditions received from the Indiana Department of Natural Resources and the provisions contained in this section have been met.

- ii. Drainage area upstream of the site is less than one square mile:

If the site is in an identified floodplain where the limits of the floodway and fringe have not yet been determined and the drainage area upstream of the site is less than one square mile, the Floodplain Administrator shall require the applicant to provide an engineering analysis showing the limits of the floodplain and one-percent annual chance flood elevation for the site.

Upon receipt, the Floodplain Administrator may issue the local Floodplain Development Permit, provided the provisions contained in this article have been met.

(D) SFHAs not Identified on a Map

- i. If a proposed development site is near a waterway with no SFHA identified on a map, the Floodplain Administrator shall verify the drainage area upstream of the site. If the drainage area upstream of the site is verified as being greater than one square mile, the Floodplain Administrator shall require the applicant to forward the application, along with all pertinent

plans and specifications, to the Indiana Department of Natural Resources for review and comment.

- ii. No action shall be taken by the Floodplain Administrator until written approval from the Indiana Department of Natural Resources (approval for construction in a floodway, letter of authorization, or evidence of general license qualification) or a floodplain analysis/regulatory assessment citing the one-percent annual chance flood elevation and the recommended Flood Protection Grade has been received from the Indiana Department of Natural Resources.
- iii. Once the Floodplain Administrator has received the proper written approval, evidence of general license qualification, or floodplain analysis/regulatory assessment approving the proposed development from the Indiana Department of Natural Resources, a Floodplain Development Permit may be issued, provided the conditions of the Floodplain Development Permit are not less restrictive than the conditions received from the Indiana Department of Natural Resources and the provisions contained in this article have been met.

(3) General Standards

In all areas of special flood hazard, the following provisions are required:

- (A) All new construction, reconstruction or repairs made to a repetitive loss structure, and substantial improvements shall be anchored to prevent flotation, collapse or lateral movement of the structure;
- (B) New construction and substantial improvements shall be constructed with materials and utility equipment resistant to flood damage below the FPG;
- (C) New construction and substantial improvements must incorporate methods and practices that minimize flood damage;
- (D) Electrical, heating, ventilation, plumbing, air conditioning equipment, and other service facilities shall be located at/above the FPG for residential structures. Electrical, heating, ventilation, plumbing, air conditioning equipment, and other service facilities shall be located at/above the FPG or designed so as to prevent water from entering or accumulating within the components below the FPG for non-residential structures. Water and sewer pipes, electrical and telephone lines, submersible pumps, and other waterproofed service facilities may be located below the FPG;
- (E) New and replacement water supply systems shall be designed to minimize or eliminate infiltration of floodwaters into the system;
- (F) New and replacement sanitary sewage systems shall be designed to minimize or eliminate infiltration of floodwaters into the system;
- (G) On-site waste disposal systems shall be located and constructed to avoid impairment to them or contamination from them during flooding;

- (H) Any alteration, repair, reconstruction, or improvements to a structure that is in compliance with the provisions of this ordinance shall meet the requirements of "new construction" as contained in this ordinance;
- (I) Base flood elevation data shall be provided for subdivision proposals and other proposed development (including manufactured home parks and subdivisions), which is greater than the lesser of fifty (50) lots or five (5) acres;
- (J) Where an existing or proposed structure or other development is affected by multiple flood zones, by multiple base flood elevations, or both, the development activity must comply with the provisions of this ordinance applicable to the most restrictive flood zone and the highest base flood elevation affecting any part of the existing or proposed structure; or for other developments, affecting any part of the area of the development.
- (K) Drainage paths must be provided to guide floodwaters around and away from proposed structures to be constructed on slopes in areas of shallow flooding, designated as Zone AO or Zone AH on the FIRM.
- (L) Fill projects that do not involve a structure must be protected against erosion and scour during flooding by vegetative cover, riprap, or bulk heading. If vegetative cover is used, the slopes shall be no steeper than 3' horizontal to 1' vertical.

(4) Specific Standards

In all areas of special flood hazard where base flood elevation data or flood depths have been provided, as set forth in Section 20.04.040(c)(1), the following provisions are required:

(A) Building Protection Requirement. In addition to the general standards described in Section 20.04.040(e)(3) structures to be located in the SFHA shall be protected from flood damage below the FPG. This building protection requirement applies to the following situations:

- i. Construction or placement of a residential structure;
- ii. Construction or placement of a non-residential structure;
- iii. Addition or improvement made to an existing structure where the cost of the addition or improvement equals or exceeds 50% of the value of the existing structure (excluding the value of the land). An addition and/or improvement project that is continuous in scope or time is considered as one project for permitting purposes;
- iv. Reconstruction or repairs made to a damaged structure where the costs of restoring the structure to its before damaged condition equals or exceeds 50% of the market value of the structure (excluding the value of the land) before damage occurred (the costs of any proposed additions or improvements beyond restoring the damaged structure to its before damaged condition must be included in the cost);

- v. Installing a manufactured home on a new site or a new manufactured home on an existing site;
- vi. Installing a travel trailer or recreational vehicle on a site for more than 180 days;
- vii. Reconstruction or repairs made to a repetitive loss structure; and
- viii. Addition or improvement made to any existing structure with a previous repair, addition or improvement constructed since the community's first floodplain ordinance.

(B) Residential Construction.

- i. New construction or substantial improvement of any residential structures shall meet provisions described in Section 20.04.040(e)(2) and Section 20.04.040(e)(3).
- ii. In **Zone A and Zone AE**, new construction or substantial improvement of any residential structure shall have the lowest floor; including basement, at or above the FPG. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the standards of Section 20.04.040(e)(4)(B)(v). Should fill be used to elevate a structure, the standards of 20.04.040(e)(4)(B)(vi) must be met.
- iii. In **Zone AH**, new construction or substantial improvement of any residential structure shall have the lowest floor; including basement, at or above the FPG. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the standards of Section 20.04.040(e)(4)(B)(v). Should fill be used to elevate a structure, the standards of Section 20.04.040(e)(B)(vi) must be met. Drainage paths must be provided to guide floodwaters around and away from proposed structures to be constructed on slopes.
- iv. In **Zone AO**, new construction or substantial improvement of any residential structure shall have the lowest floor, including basement, elevated two feet (2') greater than the flood depth specified on the FIRM above the highest adjacent grade. If no flood depth is specified, the community shall use two feet as the minimum depth. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the standards of Section 20.04.040(e)(4)(B)(v). Should fill be used to elevate a structure, the standards of Section 20.04.040(e)(4)(B)(vi) must be met. Drainage paths must be provided to guide floodwaters around and away from proposed structures to be constructed on slopes.
- v. **Fully enclosed areas** formed by foundation and other exterior walls below the flood protection grade shall meet the following requirement:
 - 1. Designed to preclude finished living space and designed to allow for the automatic entry and exit of floodwaters to equalize hydrostatic flood forces on exterior walls. Flood

openings must be designed and installed in compliance with criteria set out in FEMA Technical Bulletin 1. Flood openings must be designed and certified by a registered design professional (requires supporting engineering certification or make/model specific ICC-ES Report), or meet the following criteria for non-engineered flood openings:

- a. Provide a minimum of two openings on different sides of an enclosure. If there are multiple enclosed areas, each is required to meet the requirements for enclosures, including the requirement for flood openings in exterior walls (having a total net area of not less than one square inch for every one square foot of enclosed area);
 - b. The bottom of all openings shall be no more than one foot above the higher of the final interior grade (or floor) and the finished exterior grade immediately under each opening;
 - c. Doors and windows do not qualify as openings;
 - d. Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions;
 - e. Openings are to be not less than 3 inches in any direction in the plane of the wall. This requirement applies to the hole in the wall, excluding any device that may be inserted such as typical foundation air vent device.
2. The floor of such enclosed area must be at or above grade on at least one side.
- vi. A residential structure may be constructed on **fill** in accordance with the following
1. Fill shall be placed in layers no greater than 1 foot deep before compacting to 95% of the maximum density obtainable with either the Standard or Modified Proctor Test method. The results of the test showing compliance shall be retained in the permit file;
 2. Fill shall extend 5 feet beyond the foundation of the structure before sloping below the BFE;
 3. Fill shall be protected against erosion and scour during flooding by vegetative cover, riprap, or bulk heading. If vegetative cover is used, the slopes shall be no steeper than 3' horizontal to 1' vertical;
 4. Fill shall not adversely affect the flow of surface drainage from or onto neighboring properties;
 5. Fill shall be composed of clean granular or earthen material.

- vii. A residential structure may be constructed using a **stem wall foundation** (also called chain wall, raised-slab-on-grade, and slab-on-stem-wall-with-fill). Any backfilled stem wall foundation (also called chain wall, raised-slab-on-grade, and slab-on-stem-wall-with-fill) must be backfilled with compacted structural fill, concrete, or gravel that supports the floor slab. No flood openings are required for this type of construction.

(C) Non-Residential Construction.

- i. New construction or substantial improvement of any non-residential structures (excludes accessory structures) shall meet provisions described in Section 20.04.040(e)(2) and applicable general standards described in Section 20.04.040(e)(3).
- ii. In **Zone A and Zone AE**, new construction, or substantial improvement of any commercial, industrial, or non-residential structure (excludes accessory structures) shall either have the lowest floor, including basement, elevated to or above the FPG or be floodproofed to or above the FPG. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the standards of Section 20.04.040(e)(4)(C)(v). Should fill be used to elevate a structure, the standards of Section 20.04.040(e)(4)(C)(vi) must be met.
- iii. In **Zone AH**, new construction or substantial improvement of any non-residential structure (excludes accessory structures) shall have the lowest floor, including basement, elevated at least to the FPG or be floodproofed to or above the FPG. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the standards of Section 20.04.040(e)(4)(C)(v). Should fill be used to elevate a structure, the standards of Section 20.04.040(e)(4)(C)(vi) must be met. Drainage paths must be provided to guide floodwaters around and away from proposed structures to be constructed on slopes.
- iv. In **Zone AO**, new non-residential construction or substantial improvements of any non-residential structure (excludes accessory structures) shall either:
 - v. Have the lowest floor, including basement, elevated at least two feet (2') greater than the flood depth number specified on the FIRM (If no flood depth number is specified, two feet shall be used as the flood depth.) above the highest adjacent grade. Should solid foundation perimeter walls be used to elevate a structure, openings sufficient to facilitate the unimpeded movements of floodwaters shall be provided in accordance with the standards of Section 20.04.040(e)(4)(C)(v). Should fill be used to elevate a structure, the standards of Section 20.04.040(e)(4)(C)(vi) must be met. Drainage paths must be provided to guide floodwaters around and away from proposed structures to be constructed on slopes; or
 - vi. Be floodproofed to an elevation at least two (2') greater than the flood depth number specified on the FIRM (If no flood depth number is specified, two feet shall be used as the flood depth.) above the highest adjacent grade.

- vii. **Fully enclosed areas** formed by foundation and other exterior walls below the flood protection grade shall meet the following requirement:
1. Designed to preclude finished living space and designed to allow for the automatic entry and exit of floodwaters to equalize hydrostatic flood forces on exterior walls. Flood openings must be designed and installed in compliance with criteria set out in FEMA Technical Bulletin 1. Flood openings must be designed and certified by a registered design professional (requires supporting engineering certification or make/model specific ICC-ES Report), or meet the following criteria for non-engineered flood openings:
 - a. Provide a minimum of two openings on different sides of an enclosure. If more than one enclosed area is present, each must have openings on exterior walls (having a total net area of not less than one square inch for every one square foot of enclosed area);
 - b. The bottom of all openings shall be no more than one foot above the higher of the final interior grade (or floor) and the finished exterior grade immediately under each opening;
 - c. Doors and windows do not qualify as openings;
 - d. Openings may be equipped with screens, louvers, valves or other coverings or devices provided they permit the automatic flow of floodwaters in both directions;
 - e. Openings are to be not less than 3 inches in any direction in the plane of the wall. This requirement applies to the hole in the wall, excluding any device that may be inserted such as typical foundation air vent device.
 2. The floor of such enclosed area must be at or above grade on at least one side.
- viii. A nonresidential structure may be **constructed on fill** in accordance with the following:
1. Shall be placed in layers no greater than 1 foot deep before compacting to 95% of the maximum density obtainable with either the Standard or Modified Proctor Test method. The results of the test showing compliance shall be retained in the permit file;
 2. Shall extend 5 feet beyond the foundation of the structure before sloping below the BFE;
 3. Shall be protected against erosion and scour during flooding by vegetative cover, riprap, or bulk heading. If vegetative cover is used, the slopes shall be no steeper than 3' horizontal to 1' vertical;
 4. Shall not adversely affect the flow of surface drainage from or onto neighboring properties;
 5. Shall be composed of clean granular or earthen material.

- ix. A nonresidential structure may be **floodproofed** in accordance with the following:
 - 1. A Registered Professional Engineer or Architect shall certify that the structure has been designed so that below the FPG, the structure and attendant utility facilities are watertight and capable of resisting the effects of the regulatory flood. The structure design shall take into account flood velocities, duration, rate of rise, hydrostatic pressures, and impacts from debris or ice. Such certification shall be provided to the Floodplain Administrator.
 - 2. Floodproofing measures shall be operable without human intervention and without an outside source of electricity.
- x. A nonresidential structure may be constructed using a **stem wall foundation** (also called chain wall, raised-slab-on-grade, and slab-on-stem-wall-with-fill). Any backfilled stem wall foundation must be backfilled with compacted structural fill, concrete, or gravel that supports the floor slab. No flood openings are required for this type of construction.

(D) Manufactured Homes and Recreational Vehicles.

- i. These requirements apply to all manufactured homes to be placed on a site in the SFHA:
 - 1. The manufactured home shall be elevated on a permanent foundation such that the lowest floor shall be at or above the FPG and securely anchored to an adequately anchored foundation system to resist flotation, collapse, and lateral movement.
 - 2. Fully enclosed areas formed by foundation and other exterior walls below the FPG shall be designed to preclude finished living space and designed to allow for the entry and exit of floodwaters to automatically equalize hydrostatic flood forces on exterior walls as required for elevated structures in Section 20.04.040(e)(4)(B)(v).
 - 3. Flexible skirting and rigid skirting not attached to the frame or foundation of a manufactured home are not required to have openings.
- ii. Recreational vehicles placed on a site in the SFHA shall either:
 - 1. Be on site for less than 180 days and be fully licensed and ready for use on a public highway (defined as being on its wheels or jacking system, is attached to the site only by quick disconnect type utilities and security devices, and has no permanently attached additions), or
 - 2. Meet the requirements for "manufactured homes" as stated earlier in this section.

(E) Accessory Structures

Within SFHAs, new construction or placement of an accessory structure must meet the following standards:

- i. Shall have a floor area of 400 square feet or less;
- ii. Use shall be limited to parking of vehicles and limited storage;
- iii. Shall not be used for human habitation;
- iv. Shall be constructed of flood resistant materials;
- v. Shall be constructed and placed on the lot to offer the minimum resistance to the flow of floodwaters;
- vi. Shall be firmly anchored to prevent flotation;
- vii. Service facilities such as electrical and heating equipment shall be elevated or floodproofed to or above the FPG;
- viii. Shall be designed to allow for the entry and exit of floodwaters to automatically equalize hydrostatic flood forces on exterior walls as required for elevated structures in Section 20.04.040(e)(4)(C)(vii); and
- ix. Shall not have subsequent additions or improvements that would preclude the structure from its continued designation as an accessory structure.

(F) Free-standing Pavilions, Gazebos, Decks, Carports, and Similar Development.

Within SFHAs, new construction or placement of free-standing pavilions, gazebos, decks, carports, and similar development must meet the following standards:

- i. Shall have open sides (having not more than one rigid wall);
- ii. Shall be anchored to prevent flotation or lateral movement;
- iii. Shall be constructed of flood resistant materials below the FPG;
- iv. Any electrical, heating, plumbing and other service facilities shall be located at/above the FPG;
- v. Shall not have subsequent additions or improvements that would preclude the development from its continued designation as a free-standing pavilion, gazebo, carport, or similar open-sided development.

(G) Above Ground Gas or Liquid Storage Tanks.

Within SFHAs, all newly placed aboveground gas or liquid storage tanks shall meet the requirements for a non-residential structure as required in Section 20.04.040(e)(4)(C).

(5) Standards for Subdivision and Other New Developments

- (A) All subdivision proposals and all other proposed new development shall be consistent with the need to minimize flood damage.
- (B) All subdivision proposals and all other proposed new development shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage.
- (C) All subdivision proposals and all other proposed new development shall have adequate drainage provided to reduce exposure to flood hazards.
- (D) In all areas of special flood hazard where base flood elevation data area not available, the applicant shall provide a hydrologic and hydraulic engineering analysis that generates base flood elevations for all subdivision proposals and all other proposed new development (including manufactured home parks and subdivisions), which is greater than the lesser of fifty (50) lots or five (5) acres, whichever is less.
- (E) All subdivision proposals shall ensure safe access into/out of SFHA for pedestrians and vehicles (especially emergency responders).
- (F) Streets, blocks lots, parks and other public grounds shall be located and laid out in such a manner as to preserve and utilize natural streams and channels. Wherever possible the floodplains shall be included within parks or other public grounds.

(6) Standards for Critical Facilities

Construction of new critical facilities shall be, to the extent possible, located outside the limits of the SFHA. Construction of new critical facilities shall be permissible within the SFHA if no feasible alternative site is available. Critical facilities constructed within the SFHA shall have the lowest floor elevated to or above the FPG at the site. Floodproofing and sealing measures must be taken to ensure that toxic substances will not be displaced by or released into floodwaters. Access routes elevated to or above the FPG shall be provided to all critical facilities to the extent possible.

20.04.050 Access and Connectivity

(a) Purpose

The purpose of this section is to reduce vehicle miles traveled and related greenhouse gas emissions by encouraging walking, cycling, and transit by integrating sidewalks and bicycle routes in new development and redevelopment, and by providing for shorter and more direct routes between many destinations.

(b) Applicability

Compliance with this Section 20.04.050 (Access and Connectivity) shall be required pursuant to Section 20.04.010 (Applicability) and the specific applicability criteria established in Sections 20.04.050(c) through 20.04.050(e).

(c) Driveways and Access

(1) Number of Drives

(A) Single-Family, Duplex, Triplex, and Fourplex Residential Uses

For single-family, duplex, triplex, and fourplex residential uses, a maximum of one driveway access point shall be permitted, regardless of the number of street frontages, except that a circle drive shall be permitted according to the following standards:

- i. The maximum circle drive width shall be 10 feet;
- ii. The lot shall have at minimum of 120 feet of street frontage on the street the circle drive will access; and
- iii. The minimum distance between the driveway access points of a circle drive shall be 60 feet, measured from the inside edge of each driveway where it intersects the public right-of-way.

(B) All Other Uses

No property shall be permitted to have more than two driveway access points per street frontage.

(2) Location and Separation of Drives

(A) Generally

- i. No entrance or drive shall be installed:
 1. Closer to a street than the existing or proposed front building wall running less than 45 degrees from parallel to the street right-of-way or ingress/egress easement, except as allowed in Section 20.04.050(c)(1)(A) for circular drives.
- ii. For nonresidential uses located on corner lots, drive access shall be located on the street assigned the lower functional classification according to the Transportation Plan.
- iii. Multifamily dwelling developments may use garages with individual driveways accessing the street provided that the street being accessed is designated a local street and consistent with access management by the Transportation Plan or is a private street.

(B) Street Classification

The classification of all streets shall be as indicated on the Transportation Plan as contained in the Comprehensive Plan.

(C) Distance Calculations

- i. The distances applicable to the standards outlined in this Section 20.04.050 shall be determined as follows:
 1. By measuring from the intersection right-of-way line to the back of curb or edge of pavement (whichever is less) of the entrance or drive; or
 2. By measuring from the back of curb or edge of pavement of the first entrance or drive to the back of curb or edge of pavement (whichever is less) to the second entrance or drive. These measurements are taken along the right-of-way line.
- ii. If the parcel is not large enough to achieve the separation required below, then the drive shall be installed at a location farthest from the intersection subject to approval by the City Engineer.
- iii. The width of an allowed driveway shall be measured along the typical driving path at it's maximum width.

(D) Arterial or Collector Streets**i. Single-Family, Duplex, Triplex, and Fourplex Residential Uses**

No entrance or drive along an arterial or collector street shall be installed within 50 feet of any intersecting street.

ii. All Other Uses

1. No entrance or drive along an arterial or collector street shall be installed:
 - [a] Within 150 feet of any intersecting street.
 - [b] Within 100 feet of another driveway entrance.
2. If the distance separation requirement cannot be met, then the entrance or drive shall be located equidistant from the two adjacent drives, or as approved by the City Engineer.

(E) Local Streets**i. Single-Family, Duplex, Triplex, and Fourplex Residential Uses**

No entrance or drive along a local street shall be installed within 30 feet of any intersecting street.

ii. All Other Uses

1. No entrance or drive along a neighborhood street shall be installed:
 - [a] Within 100 feet of any intersecting street.
 - [b] Within 50 feet of another driveway entrance.
2. If the distance separation requirement cannot be met, then the entrance or drive shall be located equidistant from the two adjacent drives, or as approved by the City Engineer.

(F) Improved Alley Access in the R1, R2, R3, R4, RM, and MD Districts

A driveway accessing the street shall be prohibited if the side or rear setback is accessible via an improved alley. Required parking spaces pursuant to Section 20.04.060 (Parking and Loading), shall be accessed directly from the adjacent alley.

(3) Driveway and Access Design**(A) Generally**

- i. The City Engineering Department shall determine curb radii and other construction standards for all entrances based on the smallest design vehicle possible and to still accommodate the most common vehicle and occasional larger vehicles with appropriate encroachments, and whether an acceleration lane, deceleration lane, or passing blister is required.
- ii. Driveways shall not impede the flow of drainage. Where driveway culverts are necessary to accommodate drainage, the culvert pipe size shall be determined by a licensed engineer to prevent flooding.

(B) Driveway Pavement Widths**i. Single-Family, Duplex, Triplex, and Fourplex Residential Uses**

The width of a driveway between the required front building setback and the street shall not exceed 18 feet.

ii. All Other Uses

No entrance or drive located in the front yard of a property shall exceed the following pavement widths for two-way traffic (if one-way, the measurements shall be one-half of the below requirements):

1. 24 feet if from a nonresidential use onto an arterial or collector street. The City Engineer may authorize a 34-foot entrance to accommodate heavy truck use.
2. 24 feet if from a nonresidential use onto a local street.
3. 24 feet if from a mixed-use or multifamily residential use onto any type of street.

(C) Surface Material

- i. Unless specifically stated otherwise in this UDO, all entrances and drives shall be asphalt, concrete, or other material approved by the city.
- ii. The Planning and Transportation Director may approve structurally engineered, permeable parking pavers for entrances and drives provided these areas are intended for low intensity or intermittent vehicular use and pavers are designed and used to mitigate the negative environmental impacts of impervious surfaces.
- iii. Areas using permeable pavers shall not be counted in impervious surface calculations.
- iv. For new development, all driveway aprons onto a street shall be constructed of concrete.
- v. Enlargement or modification of an existing driveway shall require the driveway apron to be surfaced with asphalt or concrete.
- vi. Drive cuts shall ramp to meet the pedestrian and/or bicycle facility in order to keep the pedestrian and/or bicycle facility at the same grade, unless approved by the City Engineer due to site elevation constraints.

- vii. Surface materials for single-family residential driveways shall be as required in Section 20.04.060(i)(7).

(4) Connectivity

Where properties have adjacent street or access drive stubs intended for connection, these stubs shall be extended and connected on the developing property.

(5) Vision Clearance Triangle

(A) Applicability

- i. A vision clearance triangle shall be maintained at every street intersection. Vision clearance triangles may be required at other vehicular connections as determined by staff.
- ii. Vision clearance triangles for intersections may be reduced upon a determination by the City Engineering Department that such a reduction is not expected to have a significant impact on vehicle, bicycle, or pedestrian safety at the intersection and such a reduction is within engineering standards or guidelines for vehicle, bicycle, or pedestrian modes.

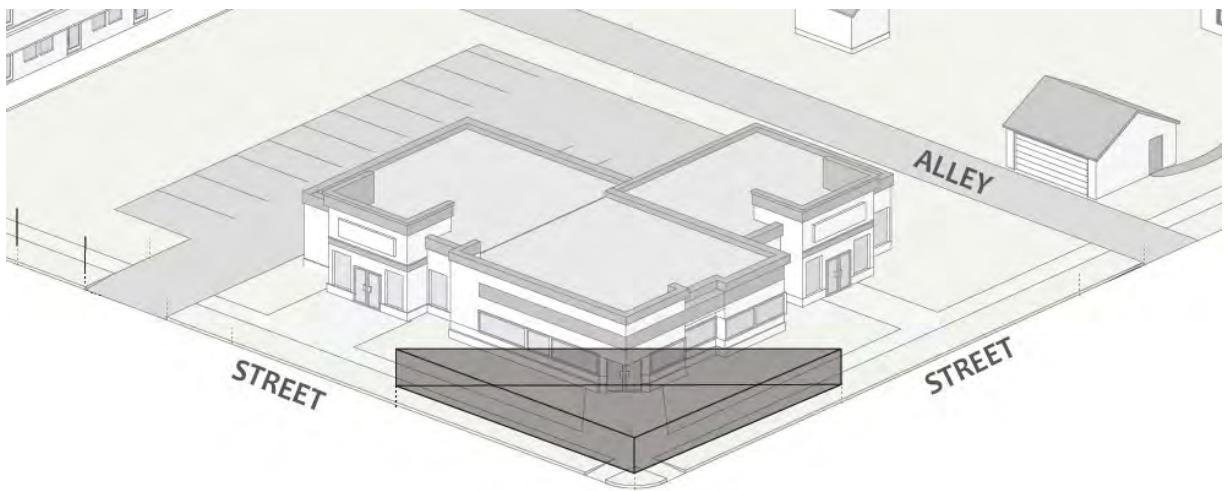


Figure 50: Vision Clearance Triangle

(B) Vision Clearance Triangle Leg Lengths

The vision clearance triangle leg lengths shall be as specified in the most current edition of the policy on geometric design of highways and streets published by the American Association of State Highway and Transportation Officials. Deviation from these standards shall require written approval from the City Engineering Department.

(C) Vertical Clear Area

No primary or accessory structures, landscaping, fences, walls or signs shall be placed in or to project into the vision clearance triangle between the heights of two and one-half feet and nine feet above the crown of the adjacent street.

(d) Pedestrian and Bicycle Circulation

(1) Purpose

To reduce greenhouse gas emissions and improve the health and quality of life of city residents by providing safe, convenient, and attractive pedestrian and bicycle transportation paths, sidewalks, trails, and other facilities throughout the City.

(2) Applicability

Pedestrian facilities shall be required on both sides of all streets, with the exception of new single-family, duplex, and triplex residences built on existing legal lots of record on non-classified (local) streets with no adjacent pedestrian facilities, and additions to existing residential structures. All required trails and connector paths shall be provided. Where there are conflicting standards in this UDO and the most recently adopted Transportation Plan, the Planning and Transportation Director shall determine which standard governs.

(3) Inspection and Acceptance

Prior to the recommendation of issuance of a final certificate of occupancy, all transportation facilities located within the adjoining public right-of-way or dedicated easements shall be inspected for compliance with standards adopted by the City of Bloomington, the Bloomington Public Transportation Corporation, and/or AASHTO standards.

(4) Pedestrian Network Required

- (A) All developments shall integrate an interior and exterior pedestrian network comprised of concrete sidewalks or asphalt paths for pedestrian transportation and recreation. This network shall include pedestrian facilities along street frontages, multiuse trails where indicated on the Transportation Plan, and pedestrian connector paths between developments and public destinations (e.g., schools, parks, hospitals), nearby trails, other developments, and vacant land.
- (B) All concrete sidewalk and asphalt path improvements shall be constructed as per City Planning and Transportation Department and Engineering Department requirements.
- (C) All buildings shall have a sidewalk connection from the building entrance to the adjacent public street.

(5) Type of Pedestrian Facility

Required pedestrian facilities shall be as indicated in the Transportation Plan, unless it is determined by the Planning and Transportation Director that such facility should be altered to match adjacent facilities.

(6) Width

The minimum width of required pedestrian facilities shall be as indicated in the Transportation Plan unless specifically noted in Table 05-5: Subdivision Development Standards.

(7) Placement

To the extent possible, all required sidewalks shall be located one foot inside the right-of-way to be dedicated to the City. If utility poles, trees, or other physical characteristics complicate installation, then the sidewalk or path may extend into individual lots or common area if the area of encroachment is placed within a pedestrian easement.

(8) Minimum Tree Plot Width

All sidewalks shall be spaced away from the back of curb to provide a tree plot and to provide pedestrian separation from vehicles. This minimum distance shall be as indicated in the Transportation Plan. Except as specified elsewhere in this UDO, tree plots may not be less than five feet and shall be planted with ground cover. The Planning and Transportation Director may allow tree grates, tree boxes, or other appropriate streetscape treatments in areas that anticipate increased pedestrian traffic.

(9) Administrative Adjustment

When the petitioner can demonstrate the need to modify or alter certain design standards relating to pedestrian facilities as described below, those standards may be modified or altered by approval of the Planning and Transportation Director. In addition, these provisions may be adjusted to allow compliance with the standards of Section 20.04.050 (Access and Connectivity).

(10) Paths, Sidewalks, and Trails**(A) Construction Standards**

All path, sidewalk, and trail improvements shall be constructed as per the City of Bloomington standards and/or AASHTO requirements.

(B) Additional Facility Amenities

Additional amenities shall be required in accordance with the design standards identified in the Transportation Plan.

(C) Sidewalks**i. Material and Width**

Sidewalks shall be constructed of durable, smooth, and skid resistant material approved by the City and a minimum width of five feet.

ii. External Sidewalks

Sidewalks shall be located a minimum of one foot inside the public right-of-way or within a pedestrian easement along all abutting street frontages.

iii. Internal Sidewalks

Sidewalks shall be provided that link abutting streets to primary entrances of primary buildings on the site, link separate facilities within the site to each other, and provide access to adjoining transit stops. Internal sidewalks shall not be required for lots containing primary single-family, duplex, triplex, or fourplex dwelling uses.

iv. Separation

Sidewalks shall have a minimum separation of five feet from the curb, or edge of pavement where no curb exists. In situations where the minimum separation cannot be achieved due to constraints such as limited public right-of-way, mature trees, or unsuitable topography, the sidewalk location may be designed to avoid the constraints, provided that a pedestrian easement is established for any locations where the sidewalk is not within the public right-of-way, and that the minimum five foot separation is maintained.

1. In situations where the sidewalk must be located within a pedestrian easement on private property, the portions of the sidewalk within the pedestrian easement shall not count toward the maximum impervious surface coverage or against the minimum landscape area for the property.
2. In situations where the City Planning and Transportation Department has determined that a pedestrian easement is not feasible due to right-of-way width constraints or site elevation constraints, the City Planning and Transportation Department may approve the following design options:
 - [a] A 10-foot-wide sidewalk with reduced vegetated plot width.
 - [b] Integral sidewalk with a minimum six-inch curb and six-foot wide sidewalk.

v. Cross-Slopes

All sidewalks (over entrances and drives, intersections, etc.) shall be constructed to comply with the Americans with Disabilities Act and all applicable adopted City standards.

(D) Multiuse Paths

Where multiuse paths are identified on the Transportation Plan, or as construction of new streets warrants the provision of multiuse paths, as determined by the Planning and Transportation Director, such facilities shall be provided as follows:

i. Minimum Width

10 feet.

ii. Surface

Multiuse paths shall be paved with asphalt. Alternative surface materials, such as ADA-compliant permeable pavers, may be authorized by the Planning and Transportation Department in order to mitigate environmental impacts.

iii. Location

Multiuse paths shall be constructed a minimum of one foot inside the public right-of-way line or within a pedestrian easement along all abutting street frontages.

iv. Separation

Multiuse paths shall have a minimum separation of five feet from the curb, or edge of pavement where no curb exists. In situations where the minimum separation cannot be achieved due to constraints such as limited public right-of-way, mature trees, or unsuitable topography, the multiuse path location may be designed to avoid the constraints, provided that a pedestrian easement is established for any locations where the multiuse path is not within the public right-of-way, and that the minimum five foot separation is maintained.

1. In situations where the multiuse path must be located within a pedestrian easement on private property, the portions of the multiuse path within the pedestrian easement shall not count toward the maximum impervious surface coverage for the property.
2. In situations where the City Planning and Transportation Department has determined that a pedestrian easement is not feasible, the City Planning and Transportation Department may approve a five-foot-wide multiuse path with reduced vegetated plot width.

v. Cross-Slopes

All multiuse paths (over entrances and drives, intersections, etc.) shall be constructed to comply with the Americans with Disabilities Act and all applicable adopted City standards.

(E) Bike Lanes

Where development projects include the construction of new public streets and redevelopment projects include alteration of existing right-of-way that are identified as having bike lanes in the Transportation Plan, such facilities shall be provided as follows:

i. Type

The type of bicycle facility required shall be determined by the Transportation Plan.

ii. Minimum Width

A minimum of five feet, or as indicated in the Transportation Plan. Any adjacent curb and gutter shall not be included in the bike lane width measurement.

iii. Location

Striped bike lanes shall be located at the outer edge of the street, adjacent to the curb, or as indicated in the most recent Transportation Plan.

iv. Substitution

Substitution of a 10-foot-wide multiuse path may be allowed if approved by the City Planning and Transportation Department and such substitution is consistent with the most recent Transportation Plan.

(F) Multiuse Trails

Where multiuse trails are identified on the Transportation Plan, such facilities shall be provided as follows:

i. Minimum Width

Pavement width shall be a minimum of 12 feet, and the paved trail shall have two-foot-wide shoulders on both sides and shall be surfaced as determined by the Parks and Recreation Department.

ii. Surface

Multiuse trails shall be paved with asphalt. Alternative surface materials may be authorized by the City Planning and Transportation Department to mitigate environmental impacts.

iii. Dedication

All multiuse trails shall be dedicated to the City Parks and Recreation Department within rights-of-way of at least 50 feet in width. Right-of-way width for multiuse trails may be reduced by the City Planning and Transportation Department after approval by the City Parks and Recreation Department.

(G) Connector Paths

Where a development is adjacent to a public park, school, commercial area, or existing or proposed multiuse trail as identified in the Transportation Plan, connector paths shall be provided as follows:

- i. The design of any required connector path that will connect to a public park or multiuse trail shall be subject to the approval of the city parks and recreation department. The parks and recreation department may waive the connector path requirement if it determines that the proposed connection to a public park or multiuse trail is not desirable or is redundant to existing facilities.
- ii. **Minimum Width**
Connector paths shall be a minimum of 10 feet in width.
- iii. **Surface**
Connector paths shall be constructed of asphalt or concrete. Alternative surface materials may be authorized by the City Planning and Transportation Department to mitigate environmental impacts.
- iv. **Easement**
Connector paths shall be contained within pedestrian easements of at least 20 feet in width pursuant to Section 20.05.040 (Easements).
- v. **Undeveloped Properties**
Where vacant or undeveloped properties are adjacent to a property under development, connector paths shall be stubbed to the property line to allow for future connection when adjacent properties are developed.

(e) Public Transit

(1) General Standards

- (A) For the purposes of this section, transit facilities shall include:
 - i. Benches;
 - ii. Shelters; or
 - iii. Other similar transit stop amenities.
- (B) Where a development is required to install one or more transit facilities, the type and location of such facilities shall be as determined by the Bloomington Public Transportation Corporation. Where such facilities are proposed within the public right-of-way, approval by the City Board of Public Works shall also be required.
- (C) The Bloomington Public Transportation Corporation may waive a required transit facility if that Corporation deems it unnecessary based on existing facilities.

(2) Existing Public Transportation Routes

(A) Transit Facility

For any development of at least 20 dwelling units, or for any nonresidential development of at least 20,000 square feet gross floor area, developed adjacent to one or more public transportation routes, a transit facility shall be constructed on all routes for which one or more of the following criteria are met:

- i. The proposed development is expected to generate public transit usage; or
- ii. The nearest existing transit facility on the route is more than one-fifth of one mile (1,056 feet) away from the closest primary building on the site, measured along rights-of-way; or

- iii. The routes do not cross or overlap in a fashion that would allow the placement of a single transit facility to serve all routes. In such a case, the busier routes shall receive the facility.

(B) Location

The transit facility shall occupy:

- i. A site within or adjacent to the right-of-way on which the public transportation route is established; or
- ii. Another site approved by the Bloomington Public Transportation Corporation that is or will be contained within a transit facility easement.

(C) Pedestrian Accessibility

Transit facilities shall be connected to the public sidewalk system and ADA-accessible routes.

(3) Future Public Transportation Routes

(A) Transit Facility Easement

For any development where one or more public transportation routes are reasonably expected to exist on adjacent public streets in the future, and where the development is expected to generate public transit usage, transit facility easements shall be established on each future route if one or more of the following criteria exist:

i. Route Overlap

The routes do not cross or overlap in a fashion that would allow the placement of a single transit facility to serve all routes; or

ii. Insufficient Right-of-way

Insufficient right-of-way exists to reasonably allow a transit facility and/or transit service access.

(B) Location

Transit facility easements shall occupy:

- i. A site adjacent to the right-of-way on which the public transportation route is established; or
- ii. Another site as approved by the Bloomington Public Transportation Corporation.

(4) Transit Facilities and Easements

(A) Pedestrian Traffic

Public transit facilities shall be designed so that they will not interfere with the normal flow of pedestrian traffic on public or private sidewalks.

(B) Construction Standards

Public transit facilities shall be built to meet the requirements of the Bloomington Public Transportation Corporation.

(C) Setback Exemption

Public transit facilities shall be exempt from the building setback standards of the zoning district.

(D) Minimum Easement Depth

10 feet.

(E) Minimum Easement Width

15 feet.

(F) Recording of Easements

See Section 20.05.040 (Easements).

(5) Bus Turnout Areas**(A) Bus Turnout**

Bus turnout areas shall be constructed in conjunction with a transit route if a transit stop is warranted, as determined by the Bloomington Public Transportation Corporation and the City, and the street on which the public transportation route is established is classified as a primary arterial on the most recent Transportation Plan.

(B) Dimensional Standards

Bus turnout areas shall be built to the dimensional requirements of the Bloomington Public Transportation Corporation.

(C) Construction Standards

The engineering design of bus turnout areas shall be coordinated with the City Planning and Transportation Department.

20.04.060 Parking and Loading

(a) Purpose

This section is intended to regulate the amount and design of off-street parking and loading for different land uses and to help protect the public health, safety, and general welfare by:

- (1) Avoiding and mitigating traffic congestion;
- (2) Providing necessary access for service and emergency vehicles;
- (3) Providing for safe and convenient interaction between motor vehicles, bicycles, and pedestrians;
- (4) Encouraging multi-modal transportation options and enhanced pedestrian safety;
- (5) Providing flexibility to respond to the transportation, access, and loading impacts of various land uses in different areas of the city;
- (6) Reducing stormwater runoff, reducing heat island effect from large expanses of pavement, improving water quality, and minimizing dust pollution; and
- (7) Avoiding and mitigating the adverse visual impact of large concentrations of exposed parking.

(b) Applicability

Compliance with this Section 20.04.060 (Parking and Loading) shall be required pursuant to Section 20.04.010 (Applicability) and the specific applicability criteria established in Sections 20.04.060(d) through 20.04.060(l).

(c) Parking Calculations

(1) Generally

- (A) All parking and loading requirements that are based on square footage shall be calculated on the basis of gross floor area of the subject use, unless otherwise specified.
- (B) Parking spaces designed or designated exclusively for recreational vehicles, motorcycles, scooters, and other two-wheeled vehicles shall not be included in the calculation of minimum or maximum vehicle parking requirements.
- (C) Parking spaces intended for storage of business vehicles, such as fleet vehicles, delivery vehicles, or vehicles on display associated with sales or rental shall not be included in the calculation of minimum or maximum vehicle parking requirements unless otherwise stated. Businesses with parking areas designed exclusively for vehicle display shall provide a minimum of one van accessible ADA parking space.
- (D) When measurements of the maximum number of required parking spaces for vehicles or bicycles result in a fractional number, any fraction of 0.5 or larger shall be rounded down to the next lowest whole number.
- (E) Lots containing more than one use shall provide parking and loading based on the shared parking calculations in Section 20.04.060(g)(1).

(2) Unlisted Uses

For uses not listed in Table 04-9: Minimum Vehicle Parking Requirements or Table 04-10: Maximum Vehicle , the City Planning and Transportation Department is authorized to do any of the following:

- (A) Apply the minimum or maximum off-street parking space requirement specified in Table 04-9: Minimum Vehicle Parking Requirements or Table 04-10: Maximum Vehicle , for the listed use that is deemed most similar to the proposed use as determined by the City Planning and Transportation Department (based on operating characteristics, the most similar related occupancy classification, or other factors related to potential parking demand determined by the department).
- (B) Establish the minimum or maximum off-street parking space and loading requirements based on a parking study prepared by the petitioner according to 20.04.060(g) or 20.04.060(h).

(d) Minimum Vehicle Parking Requirement

(1) Applicability

(A) Generally

Each development or land use subject to this section pursuant to Section 20.04.060 shall provide at least the minimum number of vehicle parking spaces required for each land use listed in Table 04-9: Minimum Vehicle Parking Requirements.

(B) MD District

Minimum parking requirements do not apply to development in the Courthouse Square Character Area or the Downtown Core Character Area south of 4th Street.

Table 04-9: Minimum Vehicle Parking Requirements

DU = dwelling unit

	All Other Zoning Districts	MD Zoning District
Dwelling, single-family (detached)	No requirement	
Dwelling, single-family (attached)		
Dwelling, duplex [3]	0.5 spaces per DU [1]	No requirement
Dwelling, triplex [3]		
Dwelling, fourplex [3]		
Dwelling, multifamily [2]	Studio: 0.5 space per DU 1 bedroom: 1 space per DU 2 bedrooms: 1.5 spaces per DU 3 bedrooms: 2 spaces per DU	
Dwelling, live/work	No requirement	
Dwelling, cottage development	1 space per DU	
Dwelling, mobile home	1 space per DU	
Manufactured home park		
Noncommercial urban agriculture	2 spaces per lot	
Student housing or dormitory	0-10 bedrooms: no requirement 11 or more bedrooms: 0.5 spaces per bedroom	

NOTES:

[1] See Section 20.04.110 (Incentives) for alternative standards.

[2] Minimums shall only apply to multifamily development within or adjacent to the R3 zoning district and all multifamily development in the MD zoning district.

[3] Minimum parking for duplexes, triplexes, and fourplexes only applies in the R1, R2, R3, and R4 districts.

(e) Maximum Vehicle Parking Allowance

In no case shall any land use or development subject to this Section 20.04.060 provide more than the maximum number of vehicle parking spaces allowed for each land use listed in Table 04-10: Maximum Vehicle Parking Allowance.

Table 04-10: Maximum Vehicle Parking Allowance

DU = dwelling unit sq. ft. = square feet

Use	Maximum Vehicle Parking Allowance
RESIDENTIAL USES	
Household Living	
Dwelling, single-family (detached)	No limit
Dwelling, single-family (attached)	
Dwelling, duplex	2 spaces per DU
Dwelling, triplex	
Dwelling, fourplex	

Table 04-10: Maximum Vehicle Parking Allowance

DU = dwelling unit sq. ft. = square feet

Use	Maximum Vehicle Parking Allowance
Dwelling, multifamily	125 percent of the potential minimum, or 1.25 spaces per bedroom, whichever is less. When there is no required minimum number of spaces, the number of spaces listed per DU in Table 04-9 shall be used in the 125% calculation.
Dwelling, live/work	1 space per DU
Dwelling, cottage development	2 spaces per DU
Dwelling, mobile home	2 spaces per DU
Manufactured home park	2 spaces per DU, plus 1 visitor space per 2 DUs
Group Living	
Assisted living facility	1 space per 6 infirmary or nursing home beds;
Continuing care retirement facility	plus 1 space per 3 rooming units;
	plus 1 space per 3 DUs
Fraternity or sorority house	0.8 spaces per bed
Group care home, FHAA small	1 space per 4 persons design capacity
Group care facility, FHAA large	
Nursing or convalescent home	
Opioid rehabilitation home, small	
Opioid rehabilitation home, large	
Residential rooming house	2 spaces;
	plus 1 space per guest room
Student housing or dormitory	0.75 spaces per bedroom
Supportive housing, small	2.5 spaces per 1,000 sq. ft. GFA
Supportive housing, large	
PUBLIC, INSTITUTIONAL, AND CIVIC USES	
Community and Cultural Facilities	
Art gallery, museum, or library	2 spaces per 1,000 sq. ft. GFA
Cemetery or mausoleum	1 space per 4 seats in chapel or assembly area
Club or lodge	1 space per 4 seats in main assembly area, or 5 spaces per 1,000 sq. ft. GFA, whichever is greater
Community center	3.3 spaces per 1,000 sq. ft. GFA
Conference or convention center	2 spaces per 1,000 sq. ft. GFA
Crematory	3.3 spaces per 1,000 sq. ft. GFA
Day-care center, adult or child	3.3 spaces per 1,000 sq. ft. GFA
Government service facility	3.3 spaces per 1,000 sq. ft. GFA
Jail or detention facility	2 spaces per 1,000 sq. ft. GFA
Meeting, banquet, or event facility	4 spaces per 1,000 sq. ft. GFA
Mortuary	3.3 spaces per 1,000 sq. ft. GFA
Park	5 spaces per 1 acre plus 2.5 spaces per 1,000 sq. ft. of site used for recreational equipment area
Place of worship	1 space per 4 seats in main assembly area, or 5 spaces per 1,000 sq. ft. GFA, whichever is greater

Table 04-10: Maximum Vehicle Parking Allowance

DU = dwelling unit sq. ft. = square feet

Use	Maximum Vehicle Parking Allowance
Police, fire, or rescue station	4 spaces per 1,000 sq. ft. GFA plus 1 space per each vehicle used for police, fire, and rescue
Urban agriculture, noncommercial	1.25 spaces per acre
Educational Facilities	
School, college or university	4 spaces per 1,000 sq. ft. GFA
School, public or private	4 spaces per 1,000 sq. ft. GFA
School, trade or business	4 spaces per 1,000 sq. ft. GFA
Healthcare Facilities	
Hospital	1 space per patient bed design capacity
Medical clinic	5 spaces per 1,000 sq. ft. GFA
Methadone treatment facility	3.3 spaces per 1,000 sq. ft. GFA
Opioid rehabilitation facility	3.3 spaces per 1,000 sq. ft. GFA
COMMERCIAL USES	
Agricultural and Animal Uses	
Kennel	3.3 spaces per 1,000 sq. ft. GFA
Orchard or tree farm, commercial	1.25 spaces per 1 acre
Pet grooming	3.3 spaces per 1,000 sq. ft. GFA
Plant nursery or greenhouse, commercial	3.3 spaces per 1,000 sq. ft. of GFA retail sales
Veterinarian clinic	3.3 spaces per 1,000 sq. ft. GFA
Entertainment and Recreation	
Amenity center	2.5 spaces per 1,000 sq. ft. GFA
Country club	2 spaces per golf hole plus 2.5 spaces per 1,000 sq. ft. GFA
Recreation, indoor	Bowling alley: 3 spaces per lane Theater: 1 space per 4 seats in assembly areas All other: 4 spaces per 1,000 sq. ft. GFA
Recreation, outdoor	Golf course: 2 spaces per golf hole Mini golf course: 1 space per golf hole Golf driving range: 1 space per tee box All other: 2.5 spaces per 1,000 sq. ft. of site area used for recreation
Sexually oriented business	5 spaces per 1,000 sq. ft. GFA
Stadium	1 space per 8 seats
Food, Beverage, and Lodging	
Bar or Dance club	4 spaces per 1,000 sq. ft. GFA
Bed and breakfast	1 space per guest bedroom
Brewpub, distillery, or winery	Indoor tasting/seating area: 10 spaces per 1,000 sq. ft. GFA; Outdoor tasting/seating area: 5 spaces per 1,000 sq. ft. of
Hotel or motel	1 space per guest room
Restaurant	Indoor seating area: 10 spaces per 1,000 sq. ft. GFA; Outdoor seating area: 5 spaces per 1,000 sq. ft. of

Table 04-10: Maximum Vehicle Parking Allowance

DU = dwelling unit sq. ft. = square feet

Use	Maximum Vehicle Parking Allowance
Office, Business, and Professional Services	
Artist studio or workshop	1 space per 1,000 sq. ft. GFA
Check cashing	4 spaces per 1,000 sq. ft. GFA
Financial institution	4 spaces per 1,000 sq. ft. GFA
Fitness center, small	4 spaces per 1,000 sq. ft. GFA
Fitness center, large	4 spaces per 1,000 sq. ft. GFA
Office	3.3 spaces per 1,000 sq. ft. GFA
Personal service, small	3.3 spaces per 1,000 sq. ft. GFA
Personal service, large	3.3 spaces per 1,000 sq. ft. GFA
Tattoo or piercing parlor	3.3 spaces per 1,000 sq. ft. GFA
Retail Sales	
Building supply store	2 spaces per 1,000 sq. ft. GFA
Grocery or supermarket	5 spaces per 1,000 sq. ft. GFA
Liquor or tobacco sales	3.3 spaces per 1,000 sq. ft. GFA
Pawn shop	3.3 spaces per 1,000 sq. ft. GFA
Retail sales, small	4 spaces per 1,000 sq. ft. GFA
Retail sales, medium	4 spaces per 1,000 sq. ft. GFA
Retail sales, large	3.3 spaces per 1,000 sq. ft. GFA
Retail sales, big box	3.3 spaces per 1,000 sq. ft. GFA
Vehicles and Equipment	
Equipment sales or rental	2.85 spaces per 1,000 sq. ft. GFA of indoor sales/leasing/ office area; plus 1 space per service bay
Transportation terminal	1.25 spaces per 0.5 acres
Vehicle fleet operations, small	1.25 spaces per 0.5 acres plus 3.3 spaces per 1,000 sq. ft. GFA
Vehicle fleet operations, large	1.25 spaces per 0.5 acres plus 3.3 spaces per 1,000 sq. ft. GFA
Vehicle fuel station	5 spaces per 1,000 sq. ft. GFA
Vehicle impound storage	1.25 spaces per 0.5 acres
Vehicle repair, major	2.85 spaces per 1,000 sq. ft. of indoor sales/leasing/ office area; plus 1 space per service bay
Vehicle repair, minor	
Vehicle sales or rental	
Vehicle wash	2.5 spaces per 1,000 sq. ft. of indoor sales/office area plus 1 space per service bay
EMPLOYMENT USES	
Manufacturing and Processing	
Commercial Laundry	3.3 spaces per 1,000 sq. ft. GFA
Food production or processing	3.3 spaces per 1,000 sq. ft. GFA
Manufacturing, artisan	2.5 spaces per 1,000 sq. ft. GFA
Manufacturing, light	3.3 spaces per 1,000 sq. ft. GFA

Table 04-10: Maximum Vehicle Parking Allowance

DU = dwelling unit sq. ft. = square feet

Use	Maximum Vehicle Parking Allowance
Manufacturing, heavy	3.3 spaces per 1,000 sq. ft. GFA
Salvage or scrap yard	1.25 spaces per 0.5 acres plus 2.5 spaces per 1,000 sq. ft. GFA
Storage, Distribution, or Warehousing	
Bottled gas storage or distribution	3.3 spaces per 1,000 sq. ft. GFA
Contractor's yard	3.3 spaces per 1,000 sq. ft. GFA plus 1 space per each company vehicle up to a maximum of 30 company vehicles
Distribution, warehouse, or wholesale facility	3.3 spaces per 1,000 sq. ft. GFA
Storage, outdoor	1.25 spaces per acre
Storage, self-service	2.85 spaces per 1,000 GFA of indoor sales/leasing/office space
Resource and Extraction	
Gravel, cement, or sand production	1.25 spaces per acre
Quarry	1.25 spaces per acre
Stone processing	1.25 spaces per acre
UTILITIES AND COMMUNICATION	
Communication facility	1.25 spaces per acre
Solar collector, ground- or building-mounted	1.25 spaces per acre
Utility substation and transmission facility	1.25 spaces per acre
Wind energy system, large	1.25 spaces per acre
Wind energy system, small	1.25 spaces per acre
ACCESSORY USES	
Chicken flock	No additional parking
Crops and pasturage	No additional parking
Detached garage	No additional parking
Drive-through	No additional parking
Dwelling, accessory unit	No additional parking
Electric vehicle charging facility	No additional parking
Greenhouse, noncommercial	No additional parking
Home occupation	No additional parking
Outdoor retail and display	No additional parking
Outdoor trash and recyclables receptacles	No additional parking
Recycling drop-off, self-serve	No additional parking
Swimming pool	No additional parking
TEMPORARY USES	
Book buyback	No additional parking
Construction support activities	No additional parking
Farm produce sales	No additional parking
Real estate sales or model home	No additional parking

Table 04-10: Maximum Vehicle Parking Allowance

DU = dwelling unit sq. ft. = square feet

Use	Maximum Vehicle Parking Allowance
Seasonal sales	No additional parking
Special event	No additional parking

(f) Accessible Parking

- (1) Accessible spaces shall be provided and designed as required to meet the requirements of the Americans with Disabilities Act (ADA) and the Indiana Building Code (IBC).
- (2) Each accessible space shall be located adjacent to an access aisle and as close as reasonably practicable to the building entrance most accessible for persons with disabilities.
- (3) All accessible spaces shall be striped and have vertical signs identifying them as accessible spaces per the Indiana Manual on Uniform Traffic Control Devices.
- (4) Required accessible spaces shall count towards the number of maximum parking spaces permitted, unless the maximum allowed number of parking spaces is 25 spaces or less.

(g) Adjustments to Minimum Parking Requirements

The amount of vehicle parking required pursuant to Table 04-9: Minimum Vehicle Parking Requirements, may be adjusted by the factors listed in this Section 20.04.060(g). These adjustments may be applied as part of the calculation of parking requirements and do not require discretionary approval by the City.

(1) Shared Parking Facilities**(A) Generally**

- i. When reviewing a shared parking proposal, the City Planning and Transportation Department shall consider any additional reductions in minimum parking requirements that might otherwise apply pursuant to subsections (2) through (5) below, but such additional reductions shall not apply to further reduce the shared parking requirements approved by the City Planning and Transportation Department.
- ii. Where a minimum number of parking spaces are required by Table 04-9: Minimum Vehicle Parking Requirements, the owners of two or more properties may join together to provide the required parking spaces for their respective uses. Upon request by the owners and after review of the request, the City Planning and Transportation Department may authorize the shared use of parking facilities subject to the following:
- iii. In a shared parking arrangement, each property shall provide a minimum of 60 percent of the individual parking requirements provided in Table 04-9: Minimum Vehicle Parking Requirements. In no case shall the total combined parking spaces be less than 120 percent of the greater individual parking requirement.
- iv. Any property using shared parking facilities shall be located within 600 feet of such parking facility, using established sidewalks and crosswalks where available.

(B) Shared Parking Agreement

The property owner seeking leased spaces shall provide a recordable zoning commitment to the Planning and Transportation Department stating that in the case where leased spaces are no longer available, that an adequate parking alternative will be provided.

(2) Proximity to Transit

Except for single-family, duplex, triplex, fourplex, mobile home, and manufactured home residential uses, the minimum parking required for development within one-quarter mile, measured radially in a straight line, of a fixed transit station or transit route stop shall be reduced from those shown in Table 04-9: *Minimum Vehicle Parking Requirements* by 15 percent.

(3) Affordable and Senior Housing

The minimum number of required vehicle parking spaces for multifamily residential structures shall be reduced by 35 percent if:

- (A) The multifamily residential structure qualifies for the affordable housing incentives pursuant to Section 20.04.110 (Incentives); or
- (B) A minimum of 75 percent of the dwelling units are restricted for lease or sale by persons 65 years of age or older.

(4) On-Street Parking

Any on-street parking space in which more than one-half of the area of the parking space abuts the subject property, may be counted toward the minimum number of required vehicle parking spaces on a one-to-one basis, subject to the following:

- (A) On-street parking may not be used to meet the minimum off-street parking requirements for single-family, duplex, triplex, fourplex, mobile home, and manufactured home residential uses;
- (B) On-street parking that is subject to residential parking permit restrictions or other time restrictions shall not be used to meet any minimum vehicle parking requirements for any use;
- (C) Each on-street parking space may only be counted once toward the parking requirements of the abutting lot, regardless of the number of individual buildings or tenants on the lot.
- (D) On-street parking spaces shall be available for general public use at all times. No signage or actions limiting general public use of on-street spaces shall be permitted.
- (E) No development or use approved with an on-street parking credit shall be considered nonconforming if the on-street parking is later removed by City action and the remaining off-street vehicle parking does not meet the minimum off-street parking requirements of this chapter.

(5) Modification of Minimum Parking Requirement Based on Parking Study

If a petitioner submits a parking demand study demonstrating that anticipated off-street vehicle parking demand for the proposed development, use, or combination of uses will be less than that calculated from Table 04-9: *Minimum Vehicle Parking Requirements*, and the City Planning and Transportation Department determines that the information and assumptions used in the study are reasonable and that the study accurately reflects anticipated off-street vehicle parking demand for the proposed development, use, or combination of uses, the City Planning and Transportation Department may authorize a reduction in required off-street parking spaces based on that study.

(h) Adjustments to Maximum Parking Allowance

No use shall provide vehicle parking spaces in an amount exceeding the maximum established in Table 04-10: Maximum Vehicle Parking Allowance, unless approved by the City Planning and Transportation Department based on the following:

- (1) The proposed development has unique or unusual characteristics that typically do not apply to comparable developments, uses, or combinations of uses, such as high sales volume per floor area or low parking turnover, that create a parking demand that exceeds the maximum ratio;
- (2) The petitioner submits a parking demand study demonstrating that anticipated off-street vehicle parking demand for the proposed development, use, or combination of uses will be more than that calculated from Table 04-10: Maximum Vehicle Parking Allowance, and the City Planning and Transportation Department determines that the information and assumptions used in the study are reasonable and that the study accurately reflects maximum reasonably anticipated off-street vehicle parking demand for the proposed development, use, or combination of uses; and
- (3) Any parking provided above the maximum required in Table 04-10: Maximum Vehicle Parking Allowance, is constructed in a parking structure or with approved pervious surfaces.

(i) Vehicle Parking Location and Design

(1) Applicability

The standards in 20.04.060(i) shall apply to all surface and aboveground vehicle parking and maneuvering areas.

(2) Location

(A) Generally

- i. All parking spaces required to serve buildings or uses erected or established after the effective date of this ordinance shall be located on the same lot as the building or use served, unless otherwise allowed pursuant to 20.04.060(g)(1).
- ii. Parking areas shall be designed to ensure safe and easy ingress, egress, and movement through the interior of the lot.
- ~~iii. For surface parking lots with 100 or more parking spaces, landscaped bioretention areas located below the surface level of the parking spaces, shall be provided on the interior of the parking lot to help direct traffic flow and to provide landscaped areas within such lots.~~
- ~~iv.~~ iii. No park strip shall be used for parking unless otherwise approved by the City Planning and Transportation Department based on considerations of pedestrian and traffic safety, visual appearance, and buffering.
- ~~v.~~ iv. All parking shall comply with parking landscape standards in Section 20.04.080 (Landscaping, Buffering, and Fences).
- ~~vi.~~ v. For single-family, duplex, triplex, fourplex, mobile home, and manufactured home residential uses, Parking shall be prohibited within the setback between the street and the building except on a driveway that meets the provisions of this Section 20.04.060.
- ~~vii.~~ vi. No commercial vehicles or trailers shall be parked overnight at a residence unless that home is occupied by the business owner or employee.

(B) In the R1, R2, R3, R4, RM, RH, and MD Districts

- i. Parking for single-family, duplex, triplex, fourplex, mobile home, and manufactured home residential uses shall be prohibited within the required front building setback between the street and the building except on a single drive not exceeding 18 feet in width.
- ii. In cases where the side or rear setback area is accessible via an improved alley, no front yard drive or parking shall be permitted. In the R1, R2, R3, and R4 districts, the required parking area shall directly access the alley and be limited to 20 feet in depth and 20 feet in width. Depth of required parking areas may exceed 20 feet if leading to a vehicular entrance of a detached garage or carport. In the MD, RM, and RH districts, the required parking area shall directly access the alley. Determinations of whether an alley allows for safe access shall be made by the City Planning and Transportation Department.
- iii. For lots at the corner of a street and the alley, the driveway on the alley shall be setback 15' from the intersection of the street and the alley.

(3) Dimensions of Parking Spaces and Drive Aisles

All on-site parking and maneuvering areas shall be constructed according to the following minimum dimensional standards and per Table 04-11:

- (A) All parking aisles shall terminate with a bump-out for turnaround maneuverability.

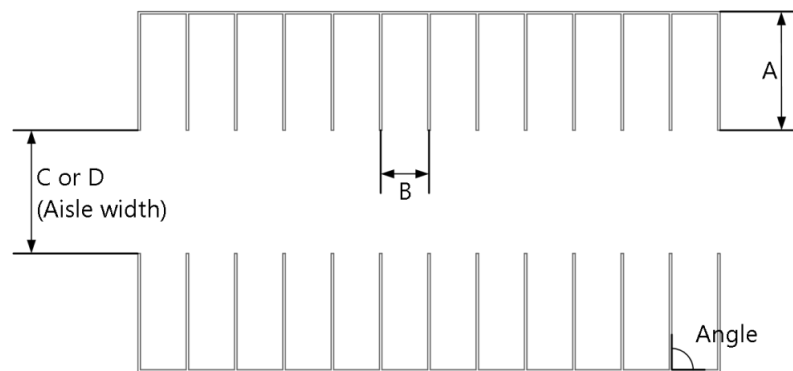


Figure 51: Illustrative Scale and Character

Table 04-11: Parking Dimensions (in feet) [2]

Angle	Parking Space		One-Way Aisle	Two-Way Aisle
	A	B	C	D
0° (parallel)	8.0	22.5 [1]	12.0	20.0
30°	15.0	8.5	12.0	20.0
45°	17.0	8.5	12.0	20.0
60°	17.5	8.5	16.0	20.0
90°	16.0	8.5	20.0	20.0

Notes:

[1] End spaces may be a minimum of 20 feet in length where no obstruction exists.

[2] Parking spaces for motorcycles may be provided and must be a minimum of 3 feet in width and 6 feet in depth.

- (B) If the petitioner can provide different acceptable standards based on a professionally recognized source of parking lot design, the City Planning and Transportation Department may approve alternative standards pursuant to the minor modification process outlined in Section 20.06.080(a) (Minor Modification).

(4) Stacked Parking

Stacked parking arrangements are permitted.

(5) Back-out Parking

(A) Generally

All on site vehicle parking areas shall be designed to avoid the need for vehicles to back onto public streets when exiting the parking space, unless otherwise stated in this UDO.

(B) Exceptions

Single-family, duplex, triplex, and fourplex uses in any zoning district shall be permitted to back-out directly onto an alley or a public street, other than an arterial street.

(C) Back-out Parking Waiver

Back-out parking within the required side or rear setback may be allowed onto adjacent alleys subject to the following standards:

- i. The lot in question does not exceed 20,000 feet in area;
- ii. A maximum of eight back-out parking spaces are permitted per site; and
- iii. Parking shall directly access an improved alley.

(6) Stormwater Drainage

~~(A) Parking lots shall be constructed such that all surface water is directed into an approved landscape bumpout, island, or endcap per Section 20.04.080(h)(2) (Landscape Bumpouts, Islands, and Endcaps). Stormwater run-off that cannot be directed into approved landscape bumpouts, islands, or endcaps shall be treated using one or more of the best management practices prescribed in Section 20.04.060(i)(6)(E) or directed into the stormwater drainage system.~~

~~(B)~~(A) Water draining from a parking lot shall not flow across a sidewalk.

~~(C)~~(B) Stormwater drainage plans for off-street parking lots shall be reviewed and approved by the City.

~~(D)~~(C) All parking lots, excluding drives that do not afford direct access to abutting parking spaces, shall have a slope of five percent or less.

~~(E) For all new parking lots containing 12 or more spaces, the following best management practices shall be used to improve stormwater infiltration and water quality:~~

- ~~i. Permeable pavement materials shall be installed. If such materials are the only practice employed from this list, then they shall cover at least 25 percent of the total parking lot area; or~~
- ~~ii. Treatments such as culvert outfalls, bioretention basins, or vegetated swales designed to the specifications of City of Bloomington Utilities shall be installed; or~~

~~iii. Other combinations of best management practices for stormwater infiltration and water quality subject to approval by the City of Bloomington Planning and Transportation and Utilities Departments.~~

(7) Surface Material

- (A) Except for dwelling, single family (detached), dwelling, single-family (attached), dwelling, duplex, dwelling, triplex, and dwelling, fourplex residences or as stated in subsection (6) above, or an exception is provided elsewhere in this UDO, all areas used for parking shall be hard surface of concrete, asphalt, brick pavers, or other approved material. Where crushed stone parking surfaces are approved, they shall be contained within a raised, permanent border.
- (B) All new driveway aprons onto a street shall be surfaced with concrete. Enlargement or modification of an existing driveway shall require the driveway apron to be surfaced with concrete, except that the driveway apron for a single-family, duplex, triplex, or fourplex use on a local street may use asphalt or concrete.
- (C) Areas using permeable parking pavers shall not count towards impervious surface calculations.
- (D) Except for single-family, duplex, triplex, fourplex, mobile home, and manufactured home residential uses, and display areas for vehicle sales and rental uses, all off-street parking spaces shall be striped or otherwise designated to clearly mark each space.
- (E) All driving lanes and parking aisles in parking lots shall be curbed, unless an alternative design allowing for adequate stormwater management is approved.

(8) Electric Vehicle Charging

Parking areas with 50 or more parking spaces shall provide a minimum of one parking space dedicated to electric vehicles for every 25 parking spaces provided on site. The provision of three or fewer electric vehicle parking spaces shall not count toward the maximum allowed number of parking spaces. The provision of four or more electric vehicle parking spaces shall count toward the maximum allowed number of parking spaces. The electric vehicle parking space shall be:

- (A) Located on the same lot as the principal use;
- (B) Signed in a clear and conspicuous manner, such as special pavement marking or signage, indicating exclusive availability to electric vehicles; and
- (C) Outfitted with a standard electric vehicle charging station.

(9) Parking Area Landscaping

All development shall comply with Section 20.04.080(h).

(10) Parking Area Lighting

All development shall comply with Section 20.04.090.

(11) Pedestrian and Bicycle Circulation

All development shall comply with Section 20.04.050.

(j) Loading Area Location and Design

(1) Applicability

This Section 20.04.060(j) shall apply to all loading areas.

(2) Location

Loading berths shall be located at the rear of a structure.

(3) Design

- (A) Loading berths shall be paved with asphalt or concrete.
- (B) Loading berths shall be effectively screened from view from adjacent public streets and residential uses by solid building walls, constructed of similar building materials as the primary structure and not less than six feet in height.
- (C) The design of loading berth areas shall prevent any portion of any vehicle using the loading facility from projecting into a public right-of-way.

(k) Drive-Through Facilities and Vehicle Stacking Areas**(1) Applicability**

The following standards apply for all uses with vehicle stacking and/or drive-through facilities.

(2) Minimum Number of Vehicle Stacking Spaces

All uses with drive-through facilities shall provide the minimum number of on-site stacking spaces indicated in Table 04-12: Minimum Vehicle Stacking Space Requirements, and shall comply with the standards in this Section 20.04.060(k).

Table 04-12: Minimum Vehicle Stacking Space Requirements

Use	Required Stacking Spaces
Car wash	4 spaces per bay or lane
Food and beverage uses	3 spaces per service lane
Other uses	3 spaces per service lane
Financial institutions	2 spaces per service lane

(l) Minimum Bicycle Parking Required**(1) Applicability**

The following standards shall apply to all uses except for single-family, duplex, triplex, fourplex, mobile home, and manufactured home residential uses.

(2) Required Bicycle Parking Spaces**(A) Generally**

- i. Each development subject to this Section 20.04.03(l) shall provide a minimum of six bicycle parking spaces or the number of bicycle parking spaces required in Table 04-13: Minimum Bicycle Parking Requirements, whichever is more.
- ii. The minimum number of bicycle parking spaces required in Table 04-13: Minimum Bicycle Parking Requirements shall be based on the total number of vehicle parking spaces provided on site or in a permitted off site location to serve the principal uses.

Table 04-13: Minimum Bicycle Parking Requirements

(Percentage of vehicle parking spaces provided on site or in a permitted off site location to serve the principal uses)

Use	All Other Zoning Districts	MD Zoning District
Residential Uses	10%, or one space per 5 bedrooms, whichever is more	20%, or one space per 5 bedrooms, whichever is more
Public, Institutional, and Civic Uses	5%	15%
Commercial Uses	5%	10%
Employment Uses	2%	5%

(B) Mixed-Use Developments

Developments with both nonresidential and residential uses shall provide the cumulative required number of bicycle parking spaces as calculated for the respective nonresidential and residential requirements in Table 04-13: Minimum Bicycle Parking Requirements.

(C) Cottage Development

A minimum of one class-2 bicycle parking space is required per dwelling unit. Secure garages may count toward this requirement, but a minimum of four class-2 bicycle parking spaces shall be provided.

(D) Building Expansions or Changes in Use

Building expansions or changes in use that require additional vehicle parking spaces pursuant to Section 20.04.060(b) shall also require additional bicycle parking spaces based on the percentages in Table 04-13: Minimum Bicycle Parking Requirements, as applied to the building expansion area or the additional parking required by the change in use.

(E) When No On-Site Vehicle Spaces are Provided

Where no vehicle parking spaces are provided on site, one bicycle parking space shall be required for every 5,000 square feet of gross floor area in each primary building, or a minimum of six bicycle parking spaces, whichever is greater.

(F) Existing Public Bicycle Parking Spaces

Permanent bicycle parking spaces available for public use, such as City installed bicycle racks or bike corrals that exist at the time of development, expansion, or change in use, and are located within 50 feet of the primary entrance to the primary building may be used to satisfy up to six required bicycle parking spaces.

(G) Bicycle Parking Reduction

Subject to the approval of the Planning and Transportation Department, the number of bicycle parking spaces may be reduced if:

- i. Unique or unusual characteristics exist on a development site that would preclude safe travel of bicycles to and from the site; or
- ii. Existing bicycle parking facilities are located within the public right-of-way and within 50 feet of the building's main entrance, provided that no more than six bicycle parking spaces in the right-of-way can be counted toward the development requirements.

(m) Bicycle Parking Location and Design

(1) Location**(A) Rights-of-way**

Bicycle parking spaces shall not be located fully or partially within a public right-of-way without prior approval of the City.

(B) Access and Pedestrian Obstruction

All required bicycle parking spaces shall be located so that a minimum three-foot clear pedestrian passage space is provided to all sides of a standard six-foot bicycle parked in each required space, and so that there is at least 54 inches of clearance remaining for ADA compliance on pedestrian pathways.

(C) Design and Proximity

Required bicycle parking spaces shall be designed to allow bicycles to be secured with a lock to a fixed object and shall be located within 50 feet of the main entrance of each primary building on site.

(D) Collocation

Bicycle parking facilities may be located in a non-required vehicular automobile parking space so long as it is not a parking space required to comply with the Americans with Disabilities Act and the location meets the other provisions of this section.

(E) Distribution

Buildings with twelve bedrooms or more shall provide a minimum of two Class II bicycle parking spaces per residential building. These spaces shall count toward fulfilling the total site requirement for bicycle parking.

(2) Design**(A) Generally**

- i. Bicycle parking location and design shall comply with City of Bloomington standards in the Administrative Manual.
- ii. Bicycle parking shall accommodate two points of contact that are separated horizontally.
- iii. Bicycle parking shall be accessible from the pedestrian/bicycle way without the need to lift the bicycle over a curb.
- iv. Bicycle parking shall be located no farther than the closest motor vehicle parking space, excluding accessible vehicle parking spaces.

(B) Type

- i. All bicycle parking requirements shall be met using either long-term Class I or short-term Class II bicycle security facilities.
- ii. For multifamily residential uses, developments with 25 or more dwelling units shall provide:
 1. A minimum of one-half of the total required bicycle parking spaces as covered, short-term Class II bicycle parking facilities; and

2. A minimum of one-quarter of the total required bicycle parking spaces as long-term Class I facilities.
- iii. For nonresidential and mixed-use developments with more than 20,000 square feet of gross floor area, all required bicycle parking facilities shall be Class II covered spaces.

(C) Surface

Bicycle parking areas shall be placed on a paved surface composed of concrete, asphalt, brick pavers, or the like. Bark mulch, crushed stone, stone, rock, dirt, sand or grass shall not be permitted as a surface for bicycle parking areas.

(n) Use of Parking Areas

(1) Exclusive Use

- (A) Unless a shared parking agreement has been established in accordance with Section 20.04.060(g)(1), required vehicle and bicycle parking spaces shall be designed, maintained and used exclusively for the tenants, occupants, and customers of the buildings or uses on the site.
- (B) Excess or unused parking vehicle or bicycle parking spaces or loading spaces may not be rented or leased to the general public or to those who are not tenants, occupants and customers of the buildings or uses where the parking is located unless:
 - i. Otherwise allowed pursuant to 20.04.060(g)(1); or
 - ii. A vehicle parking garage is listed as a permitted or conditional use in the zoning district where the parking lot or parking garage is located pursuant to Table 03-1: Allowed Use Table.

(2) Storage of Vehicles or Equipment

Vehicle parking spaces, including both required and excess parking spaces, shall not be used for storing vehicles that are not used in conjunction with the primary use of the lot. In addition, all outdoor parking of vehicles in all zoning districts shall comply with the following standards:

- i. Vehicles and trailers shall not be stored or parked on an unimproved surface.
- ii. Stored or parked vehicles shall not block, impede, or otherwise encroach upon a sidewalk.
- iii. Stored or parked vehicles shall not be used for other purposes, including, but not limited to, living quarters, or storage of materials.

(3) Motor Vehicle Repair

- (A) Motor vehicle repair work in parking areas shall be permitted in residential districts, provided that the vehicle under repair is owned by the occupant of the residential property; the frequency, duration, and scope of such use is reasonable and customary as accessory to the residential use; and no business is being conducted in conjunction with such repair use.
- (B) Motor vehicle repair work in parking areas, including both required and excess parking spaces, shall be prohibited in all other zoning districts.
- (C) A maximum of three wrecked or inoperable vehicles awaiting repair may be stored on site at one time. No such vehicle shall be stored on site in excess of 30 days.

(4) Vehicles and Trailers

Except for uses where auto repair is authorized, the parking of vehicles or trailers of any type without current license plates or in an inoperable condition shall be prohibited for periods in excess of 30 days, unless such vehicle or trailer is completely enclosed within a building or within an approved Salvage or Scrap Yard.

(5) Storage, Occupancy, or Similar Uses

Vehicles, campers or tractor/trailers of any type shall not be used for the purpose of storage, occupancy, or similar use.

(o) On-street Parking Standards for Private Streets

The following standards related to on-street parking apply to all developments where the City has approved the use of private streets that have not been dedicated to the City.

(1) No Parking Signs

Any side of a street where parking is not permitted shall be clearly delineated with yellow curbs or no parking signs noting such restrictions.

(2) Bump-outs

- (A) Bump-outs may be required at street intersections where on-street parking is used. Where required, bump-outs shall use a six-inch standing curb, unless the City determines that a curb and gutter is required based on considerations of public safety, utility design, or site constraints.
- (B) Bump-outs shall be designed to extend a minimum of eight feet from the curb line and may not reduce the travel lane widths below the standards of the Transportation Plan. The City may allow alternative bump-out widths based on considerations of public safety, utility design, or site constraints.

~~(C) Curbing may include cuts for water runoff collection into approved swale or the like to improve water quality.~~

~~(D)~~ Bump-outs shall be installed at angles greater than 90 degrees away from the street curb to facilitate street maintenance and shall use designs approved by the Transportation and Traffic Engineer based on considerations of pedestrian and traffic safety and efficient maintenance.

(p) Outdoor Storage**(1)**

In all zoning districts, except for the M1 zoning district, outdoor storage of equipment, materials, waste or scrap materials, and pallets is prohibited. Shipping containers, cargo containers, and portable on-demand storage units may not be used for long-term storage, and may only be located on a lot or parcel:

- (A) To provide storage for construction projects during the period of an approved construction project on the same lot or parcel; or
- (B) During the process of being loaded or unloaded, the duration of which may not exceed 72 consecutive hours.

20.04.070 Site and Building Design

(a) Purpose

The intent of this Section 20.04.070, is to establish site and building design standards that foster high-quality, attractive, and sustainable development that is compatible with the Bloomington's principles and policies. The standards are further intended to:

- (1) Protect and enhance the character and quality of Bloomington's neighborhoods;
- (2) Protect and enhance the long-term market value of property within Bloomington;
- (3) Enhance the human and pedestrian scale of new developments and ensure compatibility between residential neighborhoods and adjacent nonresidential uses;
- (4) Mitigate negative visual impacts arising from the scale, bulk, and mass of large buildings and centers;
- (5) Promote building designs and construction practices that are sustainable and adaptable to multiple uses for extended building lifecycles;
- (6) Minimize negative impacts of on-site activities to adjacent uses; and
- (7) Balance the community's economic and aesthetic concerns.

(b) Applicability

- (1) Compliance with this Section 20.04.070 (Site and Building Design) shall be required pursuant to Section 20.04.010 (Applicability) and the specific applicability criteria established in Sections 20.04.070(c) through 20.04.070(e)
- (2) Any exterior renovation of a building shall comply with this Section 20.04.070 for the portions of the building affected by the renovation. If the renovation is proposed for only a portion of a building, the Planning and Transportation Director may waive compliance with the site and building design standards if that renovation would be inconsistent with the overall design of the existing structure.

(c) MD District

(1) Generally

Notwithstanding subsections (d) and (e) below, all construction activity shall be subject to the design standards set forth in the applicable Downtown Character Overlay as specified in Section 20.02.020(g) (MD: Mixed-use Downtown) and Section 20.02.050(a) (DCO - Downtown Character Overlay District).

(2) Street Lighting Plans in the MD District

All certified street lighting plans proposed for the MD district shall be consistent with the design recommendations of the City of Bloomington Downtown Vision and Infill Strategy Plan and shall comply with the following:

(A) Generally

- i. Pedestrian scaled street lighting shall be provided as approved by the Board of Public Works.
- ii. Pedestrian scaled street lighting shall not exceed 15 feet in height.

(B) Lighting Fixture Styles

- i. Lighting fixture styles shall generally conform to the prevailing pattern of street lighting found on adjacent properties and street block faces.
- ii. All pedestrian scaled street lighting in the MD district shall be of a traditional design style (gas lamp, acorn, or similar decorative style) except as otherwise provided below.
- iii. Properties in the following Downtown Character Overlays may use traditional or contemporary design styles:
 - 1. Downtown Core;
 - 2. University Village (excluding Kirkwood Corridor and Restaurant Row);
 - 3. Downtown Gateway; and
 - 4. Showers Technology.

(d) Building Design

(1) Third-Party Review

The Planning and Transportation Director may retain an independent third-party consultant to review any proposed building design in order to assist with review of compliance with the standards in this 20.04.070(d). Where the decision on an application is made by the Plan Commission or City Council (as shown in Table 06-1), the consultant may offer alternative compliant design option(s) that addresses each element of building design addressed in this 20.04.070(d). The body making the final decision on the application may approve some or all of the suggested design options if it determines that the suggested option:

- (A) Significantly enhances the visual appeal of the building;
- (B) Significantly enhances the perceived quality of the building facades visible from public streets;
- (C) Creates no adverse impacts on surrounding properties beyond those that would be permitted if the standards in this 20.04.070(d) were applied; and
- (D) Strengthen the public-private interaction at the street level.

(2) Mixed-Use and Nonresidential**(A) Applicability**

The following standards shall apply to parcels in the MN, MM, MC, MS, ME, MI, and MH zoning districts.

(B) Exceptions

Single-family detached, duplex, triplex, and fourplex dwellings shall not be subject to the architectural standards of this Section 20.04.070(d)(1). Such residential dwelling units shall be subject to the architectural standards in Section 20.04.070(d)(3).

(C) Materials

All facades of a primary building shall consist of one or more of the following primary and secondary exterior finish materials:

i. Primary Exterior Finish Materials

- 1. Cementitious siding;

2. Masonry;
3. Brick;
4. Natural stone;
5. Precast concrete;
6. Split-faced block; and/or
7. Transparent glass.

ii. Secondary Exterior Finish Materials

1. Wood;
2. EIFS;
3. Metal panel or siding (minimum 26 gauge) factory fabricated and finished system with smooth, embossed, or consistent rib pattern and concealed fasteners(except corrugated); or
4. Other products that replicate the appearance and durability of the above materials, as approved by the staff.

(D) Exterior Facades

All facades of a primary building shall incorporate three or more of the following design elements in each module to avoid blank, uninterrupted walls, except that buildings less than 40 feet in width shall incorporate a minimum of two of the design elements. A module can be a maximum of 40 feet in width..

- i. Awning or canopy that extends at least 24 inches from the building face;
- ii. Change in building facade height in relation to the adjacent modules of a minimum of five feet of difference, except that buildings 25 feet or less in height may utilize a minimum of two feet of difference;
- iii. A regular pattern of transparent glass constituting a minimum of 50 percent of the total wall/facade area of the first-floor facade/elevation facing a street;
- iv. Wall elevation recesses and/or projections, the depth that are at least three percent of the horizontal width of the building façade and extend from the ground to the top of the building.

(E) Patterns

All facades of a primary building visible from any roadway shall contain the following color and texture changes:

- i. Facades shall consist of at least one primary and one secondary color.
- ii. At least one of these elements, either texture or color, shall repeat horizontally across the facade.
- iii. Variations in texture and color elements shall repeat vertically a minimum of every 30 feet.

(F) Eaves and Roofs

Buildings with sloped roofs (those greater than 3:12 pitch) visible from any roadway shall contain overhanging eaves, extending no less than two feet past the supporting walls. Flat roofs (those less than 3:12 pitch) shall include a parapet on supporting walls.

(G) 360-Degree Architecture

Those sides of a building that are not visible from the street frontage shall have a finished facade that is similar to the visible facades in terms of materials and architectural detailing.

(H) Primary Pedestrian Entry

- i. One primary pedestrian entrance shall be provided for every facade facing a street.
- ii. On corner or through lots, the facade facing the higher classified street shall have the primary pedestrian entrance. For purposes of this section, I-69 shall not be used as the higher classified street.
- iii. The pedestrian entry shall contain at least three of the following architectural details:
 1. Pilasters, change in building mass, or a distinct facade module projection;
 2. Public art display;
 3. Prominent building address, building name, and enhanced exterior light fixtures, such as wall sconces or light coves;
 4. Raised corniced entryway parapet; or
 5. Recessed or framed sheltered element of at least 3 feet in depth to protect pedestrians from weather;
 6. Integral planters or wing walls that incorporate landscaping or seating.

(I) Windows on Primary Facades

All first-story windows on the primary facade of a primary structure shall be transparent and shall not make use of dark tinting or reflective glass.

(J) Anti-Monotony Standards

In the case of new construction of multifamily units, any development containing more than three individual buildings shall incorporate the following variations to break up monotony in design:

- i. Differences in rooflines;
- ii. Differences in building footprint;
- iii. Differences in the number of floors per building.

(K) Street Addresses

- i. Street address displays shall consist of Arabic numerals (e.g., 1, 2, 3...) no less than eight inches in height. For multifamily uses, the address display shall have a minimum of five inches and a maximum of 10 inches in height.
- ii. Street address displays shall be placed above all exterior entrances visible from a public street, private drive, or parking lot.
- iii. All street addresses shall contrast with the color of the surface on which they are mounted, shall consist of reflective materials, and shall be clearly visible and identifiable from the street.

(3) Residential**(A) Applicability**

The following standards shall apply to the construction, expansion, addition, or alteration of any building in the R1, R2, R3, R4, RM, RH and RMH zoning districts.

(B) Materials

Primary exterior finish building materials used on residential dwellings shall consist of any of the following:

- i. Horizontal lap siding (e.g., vinyl, cementitious, wood);
- ii. V-grooved tongue-and-groove siding;
- iii. Wood-grained vertical siding materials in a board-and-batten or reverse batten pattern;
- iv. Cedar or other wood materials
- v. Stucco, plaster, or similar systems (excluding EIFS);
- vi. Stone;
- vii. Split face block, ground face block, or brick;
- viii. Cast or cultured stone;
- ix. Cast in place concrete;
- x. Earthen structural materials;
- xi. Metal panel or siding (minimum 26 gauge) factory fabricated and finished system with smooth, embossed, or consistent rib pattern and concealed fasteners(except corrugated);
or
- xii. Other materials that replicate the look and durability of the above materials, as approved by the staff.

(C) Minimum Coverage

Exterior finish building materials listed above, or a combination of such materials, shall extend from roofline to within six inches of finished grade.

(D) Foundations

All buildings shall be placed on permanent foundations.

(E) Roofs

- i. For attached and detached single-family dwellings, duplex, triplex, fourplex, and multifamily dwelling units that have sloped roofs, the roof shall consist of shingles, shakes, tile, standing-seam metal, or V-rib metal. Additions to attached or detached single-family dwelling units may use flat roofs (less than a 3:12 roof pitch).
- ii. Primary structures larger than 1,000 square feet of gross floor area may use a flat roof (less than 3:12 roof pitch) with a parapet and shall comply with any applicable standards established in Subsection 20.03.030: *Use-Specific Standards*.

(F) Rain Gutters and Downspouts

Rain gutters and downspouts are required.

(G) Uniform Architecture

When the rear or side facade of a newly constructed building is adjacent to a street, the architecture of these facades shall be made to match that of the front facade. Such matching shall occur through use of similar materials, window/doorway openings, variation in rooflines, or fenestration.

(H) Patterns

In the case of new construction of multifamily units in the RM and RH zoning districts, all facades of a primary building visible from any roadway shall contain the following color and texture changes:

- i. Facades shall consist of at least one primary and one secondary color.
- ii. At least one of these elements, either texture or color, shall repeat horizontally across the facade.
- iii. Variations in texture and color elements shall repeat vertically a minimum of every 30 feet.

(I) Primary Pedestrian Entry

In the case of new construction of multifamily units in the RM and RH zoning districts, the following standards shall apply:

- i. One primary pedestrian entrance shall be provided for every facade facing a street.
- ii. On corner or through lots, the facade facing the higher classified street shall have the primary pedestrian entrance. For purposes of this section, I-69 shall not be used as the higher classified street.
- iii. The pedestrian entry shall contain at least three of the following architectural details:
 1. Pilasters, change in building mass, or a distinct facade module projection;
 2. Public art display;
 3. Prominent building address, building name, and enhanced exterior light fixtures such as wall sconces or light coves;;
 4. Raised corniced entryway parapet; or
 5. Recessed or framed sheltered element of at least 3 feet in depth to protect pedestrians from weather;
 6. Integral planters or wing walls that incorporate landscaping or seating.

(J) Exterior Facades

In the case of new construction of multifamily units in the RM and RH zoning districts, all facades of a primary building shall incorporate three or more of the following design elements in each module to avoid blank, uninterrupted walls, except that buildings less than 40 feet in width shall incorporate a minimum of two of the design elements. A module can be a maximum of 40 feet in width.

- i. Awning or canopy that extends at least 24 inches from the building wall to which it is attached;
- ii. Change in building facade height in relation to the adjacent modules of a minimum of five feet of difference, except that buildings 25 feet or less in height may utilize a minimum of two feet of difference;

- iii. A regular pattern of transparent glass constituting a minimum of 50 percent of the total wall/facade area of the first-floor facade/elevation facing a street for nonresidential uses
- iv. A regular pattern of transparent glass constituting a minimum of 30 percent of the total wall/façade area of the first-floor façade/elevation facing a street for residential uses;
- v. Wall elevation recesses and/or projections, the depth that are at least three percent of the horizontal width of the building façade;
- vi. Projecting porches, balconies, or entry stoops at relevant elevations..

(K) Anti-monotony Standards

In the case of new construction of multifamily units, any development containing more than three individual buildings shall incorporate the following variations to break up monotony in design:

- i. Differences in rooflines;
- ii. Differences in building footprint;
- iii. Differences in the number of floors per building.

(4) Refuse and Recycling Containers

Except for single-family, duplex, triplex, and fourplex dwellings, all uses shall provide adequate space on site for refuse and recycling containers. Such areas shall comply with the standards in Section 20.04.080(m)(3) (Loading, Service, and Refuse Areas).

(5) Neighborhood Transition Standards

(A) Setbacks

Buildings abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the minimum building setback of the adjacent residential zoning district along the common property line or the minimum building setback of the zoning district where the building is located, whichever is greater. When adjacent to the R1, R2, R3, or R4 zoning district, the minimum setback shall be increased by one foot for each foot of building height over 30 feet.

(B) Building Height

- i. Any portion of a building within 50 feet of a property in the R1, R2, R3, or R4 zoning district shall not exceed the maximum building height allowed in the abutting residential district or the maximum building height of the zoning district where the building is located, whichever is lower. Where a lot abuts two or more residential districts, the residential district with the lowest maximum building height shall govern. Portions of buildings within 50 feet are not eligible for additional building height under Section 20.04.110 (Incentives).
- ii. Any portion of a building between 50 feet and 100 feet of a property in the R1, R2, R3, or R4 zoning district shall not exceed the maximum building height allowed in the abutting residential district, plus one story (not to exceed 15 feet); or the maximum building height of the zoning district where the building is located, whichever is lower. Where a lot abuts two or more residential districts, the residential district with the lowest maximum building height shall govern. Portions of buildings between 50 feet and 100 feet are not eligible for additional building height under Section 20.04.110 (Incentives).

- iii. Any portion of a building beyond 100 feet from a property in the R1, R2, R3, or R4 zoning district shall not exceed the allowed building height of the zoning district where the building is located. Portions of buildings beyond 100 feet are eligible for additional building height under Section 20.04.110 (Incentives).
- iv. Building features referenced in Table 04-7: *Authorized Exceptions to Height Requirements*, shall be designed to minimize visibility from adjacent residential districts and fit within the allowed building height of the zoning district where the building is located, to the maximum extent practicable.

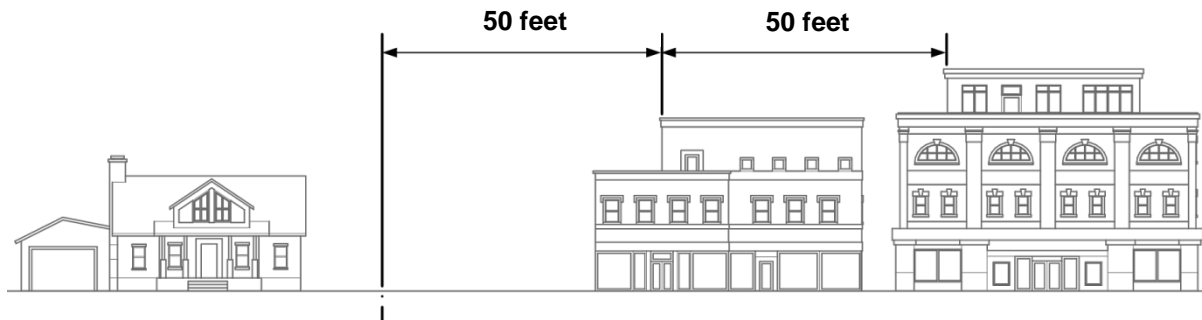


Figure 3.2 E: Building Height in Transition Areas

(6) Street Addresses

- (A) Street address displays shall consist of Arabic numerals (e.g., 1, 2, 3...) no less than three inches in height.
- (B) Street address displays shall be placed on the front of the structure and on the mailbox post where mailboxes are located along the street.
- (C) All street addresses shall contrast with the color of the surface on which they are mounted, shall consist of reflective materials, and shall be clearly visible and identifiable from the street.

(e) Projects Abutting to Historic Buildings

The following standards shall apply to all facades of primary buildings in the MS, MN, MM, MC, ME, MI, MD, and MH zoning districts that are visible from the road frontage:

(1) Building Height Stepdowns

Buildings abutting the side of outstanding and/or notable structures as identified in either one or both of the City of Bloomington Survey of Historic Sites and Structures or the Indiana State Historic Architectural and Archaeological Research Database shall incrementally step down upper stories at each respective facade module to within one story or 14 feet, whichever is less, above the highest elevation of the respective abutting historic structure.

(2) Alignment with Setbacks

Notwithstanding the provisions of Section 20.04.020 (Dimensional Standards), new buildings abutting the side of an outstanding and/or notable structure as identified in either one or both of the City of Bloomington Survey of Historic Sites and Structures or the Indiana State Historic Architectural and Archaeological Research Database shall align their respective facades to match the front setback established by a surveyed structure rather than the required build-to line.

(3) Alignment with Belt Courses

Where a building facade is required to incorporate horizontal belt course elements pursuant to Section 20.02.050(a)(8)(A), the required horizontal elements shall visually align with similar horizontal design elements of abutting historic structures.

(4) Belt Courses

- (A) Building facades shall incorporate exterior horizontal belt course design elements for the building base, middle and cap through techniques such as copestone, dripstone, string course, water table, and/or plinth using natural stone or masonry.
- (B) Building facades shall incorporate exterior vertical banding techniques using natural stone or masonry to visually define building subdivisions of wall planes, modules, or building facade focal points.

(f) Universal Design

- (1) In multifamily residential buildings and student housing and dormitory buildings constructed after 4/18/2020 that contain more than 25 dwelling units, at least 20 percent of the dwelling units shall incorporate at least one entrance at grade level and not requiring any steps up or down or a ramp for entry.
- (2) In addition, one of the following additional elements of "universal design" is required:
 - (A) All interior doorways with at least 32-inch wide openings;
 - (B) At least one bathroom with 32-inch counter height;
 - (C) At least one bathroom with wall reinforcements for handrails; and/or
 - (D) All light switches installed between 44 and 48 inches in height.

(g) Solar Ready Building Design

All new construction of primary structures shall meet either (1) or (2) below:

- 1. Design building as solar or renewable energy ready and incorporate the following into the site plan:
 - 1. Roof load bearing specifications shall be sized to bear the weight of a solar installation;
 - 2. The roof should be oriented to maximize solar capacity and roof types shall be compatible with solar installation mounting;
 - 3. Non-solar rooftop equipment (HVAC systems, chimneys, vents) shall be placed to avoid shading of solar equipment and maximize the amount of continuous roof space;
 - 4. Electrical panels shall be sized to accommodate a future solar system and space shall be allocated in the utility room or outside for a solar DC-AC inverter; and
 - 5. Conduit for wiring shall be placed from the roof to the electrical panel.
- 2. Submit a completed *U.S. EPA Renewable Energy Ready Home Solar Site Assessment* or another approved solar-ready assessment is required.

Modifications to either 1 or 2 above can be approved by the Director of Planning and Transportation.

20.04.080 Landscaping, Buffering, and Fences

(a) Purpose

The landscaping standards are intended to improve Bloomington's vegetated environment and foster development that will protect and preserve the appearance, character, health, safety and welfare of the community. Additionally, the standards are intended to foster an aesthetically pleasing development that will protect and improve Bloomington's biodiversity and the ecological services provided by native species and ecosystems. Trees, vegetation, fences, walls, and other landscape elements are essential components of a project. These components act to enhance the visual quality of developments, screen land uses, and better integrate the built and natural environments.

(b) Applicability

Compliance with this Section 20.04.080 shall be required pursuant to Section 20.04.010 (Applicability) or the specific applicability criteria established in Sections 20.04.080(l) and 20.04.080(n).

(c) General Landscaping

(1) Placement of Landscape Materials

(A) Rights-of-way and Easements

It shall be the responsibility of the property owner to install and maintain landscape material in rights-of-way or easements, where such improvements are permitted. Plant species shall be approved by either the City or the easement holder.

(B) Utility Infrastructure

- i. Trees shall be located to avoid significant interference with overhead or underground utilities, including lateral connections.
- ii. Large canopy trees shall be planted at least 10 feet from public sanitary sewer, water service lines, and natural gas lines. Medium and small trees shall be planted at least 5 feet from public sanitary sewer, water service lines, and natural gas lines, except that medium and small trees planted less than 5 feet from public sanitary sewer, water service lines, and natural gas lines may be approved by the Planning and Transportation Director.
- iii. A tree crown may project over a right-of-way or easement.
- iv. All landscape plans shall also be reviewed by the utilities department to ensure that there are no conflicts between proposed landscape and utility lines.
- v. Where utility lines pass overhead of a tree plot, medium or small trees may be used with approval of the Urban Forester.
- vi. Where utility lines or tree plot widths are an impediment to planting large, canopy trees in a tree plot, the Urban Forester may approve medium or small trees.

(C) Vehicular and Pedestrian Movement

Plant materials shall be located to avoid interference with vehicular and pedestrian movement and shall not project over sidewalks, paths, or trails below a height of eight feet. Plant materials shall not project over street curbs or pavement within rights-of-way or access easements below a height of 15 feet.

(D) Vision Clearance

Landscape materials shall be located to avoid interference with visibility per Section 20.04.050(c)(4) (Vision Clearance Triangle).

(E) Green Infrastructure

All green infrastructure facilities, including detention basins, bioswales, and raingardens shall be planted with only native seed and/or plugs.

(F) Installation Prior to Occupancy

All landscaping required by the approved site plan shall be installed and inspected prior to issuance of a recommendation for final occupancy, unless an extension is approved by the Planning and Transportation Department for weather-related or unique circumstances.

(2) Plant Material Standards**(A) Live Plantings**

All plant material shall be living and healthy. Dead, ailing, diseased or artificial plants shall not be recognized as contributing to required landscape treatments.

(B) Species Identification

New plantings shall have species identification tags on the plant or paid purchase identification labels on the plants during the final inspection. A receipt with purchase order for plantings may be submitted prior to inspection in lieu of tags or labels on site.

(C) Prohibited Plant Species

Species identified as invasive, detrimental, or noxious shall not be planted under any circumstances and will not be counted toward landscape requirements. Unless specifically approved by the City Urban Forester or Senior Environmental Planner, the use of columnar trees is not allowed.

(D) Species Diversity

- i. On sites that require an aggregate total of 20 or more new trees, any given genus of tree shall be limited to a maximum of 20 percent of the total number of newly planted trees on site.
- ii. Where shrubs are required to be planted, up to 15 percent of the total number of required shrubs may be substituted with perennial forb species, graminoids, or ferns. This does not apply to shrubs required as part of a landscape buffer requirement per Section 20.04.080(g). Any substituted plants used toward parking lot perimeter requirements shall be species that typically grow to be at least four feet in height, and shall be maintained in accordance with Section ~~20.04.120(a)~~20.04.120(b) (Landscaping).

(E) New Planting Sizes

The following minimum sizes shall apply to all required plant material:

i. **Deciduous Trees**

All newly planted deciduous trees shall be at least two-inch caliper.

ii. **Evergreen Trees**

All newly planted evergreen trees shall be at least six feet in height.

iii. **Shrubs**

Shrubs shall be at least three-gallon container size and a minimum of 18 inches in height.

(F) **Substitution**

i. **Public Art**

The Planning and Transportation Department may allow up to five percent of the minimum landscape area requirement to be replaced with public art. Public art shall not replace required buffer yard landscaping as required by Section 20.04.080(g) or required parking lot landscaping required by Section 20.04.080(h) and shall not count towards impervious surface area on the lot.

ii. **Existing Vegetation**

1. The City Planning and Transportation Department may permit the substitution of required on-site landscape excluding street tree requirements with existing vegetation provided that the existing vegetation is in good health and quality and is found on the permitted plant list in this UDO.
2. Vegetation preserved to meet the requirements of Section ~~20.04.030(h)~~~~20.04.030(i)~~, (Tree and Forest Preservation), may be substituted for required landscaping, provided it meets the requirements of Section 20.04.080(c)(2).
3. Existing vegetation listed in Section 20.04.080(d), shall be credited towards required landscaping based on the following values:

[a] **Deciduous Trees**

A credit of one tree per every four inches DBH of an existing qualified deciduous tree is earned. No single existing tree shall count towards more than four individual required trees.

[b] **Evergreen Trees**

A credit of one tree per every 12 feet in height of an existing qualified evergreen tree is earned. No single existing tree shall count towards more than three individual required trees.

[c] **Shrubs**

A credit of one shrub per every one existing qualified shrub is earned.

(G) **Ground Cover**

- i. Except in the PO zoning district, turf grass and other vegetative ground cover shall be used for all landscaped areas, except as listed below. Crushed rock or gravel is not allowed as ground cover.

1. Parking lot bumpouts, islands, and endcaps smaller than 324 square feet may use mulch.
 2. Areas within 24 inches of a building foundation and underneath staircases may use mulch or decorative stone.
 3. For single-family, duplex, triplex, and fourplex uses, mulch, and decorative stone may only be used in defined landscape beds with raised borders.
- ii. Except as provided in Section 20.04.080(c)(2)(G)(i), decorative mulch or stone shall not be used as groundcover except one foot beyond the dripline of shrubbery and shall be no more than six feet in diameter surrounding trees.
 - iii. Approved stormwater detention and retention facilities may utilize decorative mulch or stone on a one-time basis at time of installation as allowed or required by City of Bloomington Utilities. Landscaping stone or riprap or other non-vegetative material may be incorporated in stormwater treatment alternatives, such as swales or culvert outfalls, as approved by City of Bloomington Utilities.

(3) Tree Protection

- (A) Any existing trees intended to be preserved and counted toward minimum landscape requirements shall be protected during the entire duration of construction by a Tree Protection Barrier. The Tree Protection Barrier shall be installed at the Tree Protection Zone and be at least 4 feet tall, highly visible, sturdy, and have warning signs on or near it for the duration of the construction activity..
- (B) Construction activities shall be prohibited within the tree protection zone, a three-foot minimum radius surrounding the dripline of the tree.
- (C) No equipment or supply storage, equipment movement, rest or picnicking area, or any land disturbing activities shall be allowed in the tree protection zone.

(4) Alternatives Authorized

A reduction in the count, configuration, or location of required landscaping materials may be allowed when alternatives are justified by site or development conditions. The petitioner shall provide justification for the use of alternatives and shall demonstrate how compliance with the standard(s) from which a deviation is sought will be achieved to the maximum extent practicable.

- (A) Conditions that may justify approval of an alternative landscape plan include:

- i. Unique lot size or configuration;
 - ii. The presence of existing utility or other easements; or
 - iii. Preservation of natural vegetation.
- (B) The City Planning and Transportation Department may approve alternative landscape plans that do not meet the specific requirements stated in this Section 20.04.080, when the petitioner demonstrates and the City Planning and Transportation Department determines that the alternatives meet all of the following criteria:
- i. Are consistent with the purposes of this Section 20.04.080;
 - ii. Do not include invasive vegetation included in an adopted city, county, or state list of prohibited or invasive species;
 - iii. Provide equal or superior buffering of adjacent properties from anticipated impacts of the proposed development; and
 - iv. Provide equal or superior visual appearance of the property when viewed from a public right-of-way.

(d) Permitted Plant Species

All plant material shall be selected from this Section 20.04.080(d). Substitutions to the list shall be submitted to the City Planning and Transportation Department for approval.

(1) Street Trees

Trees suitable for planting along public streets and highways, and in locations where low maintenance and hardy constitution are required are established in Table 04-14: Permitted Street Tree.

(2) Interior Trees

Trees suitable for the interior of a site are established in Table 04-15: Permitted Interior Tree Species. Permitted street tree species listed in Table 04-14: *Permitted Street Tree Species* may also be used, as interior trees, except the parenthesized trees, which are prohibited for interior trees.

(3) Shrubs

Shrubs suitable for individual, screen, biohedge uses, up to 12 feet at mature height are established in Table 04-16: *Permitted Shrub Species*.

(4) Forbs

Forbs, or flowering, nongrassy herbaceous plants suitable for infill, aesthetics, and cover are established in Table 04-15: *Permitted Herbaceous Flowering Perennial Plant Species*.

Table 04-14: Permitted Street Tree Species

Bold text indicates evergreen species | Parentheses indicates prohibited as an interior tree

Common Name	Scientific Name
Large Street Trees - 45 feet or more at mature height	
Sugar Hackberry	<i>Celtis laevigata</i>
Hackberry	<i>Celtis occidentalis</i>
Thornless Honeylocust	<i>Gleditsia triacanthos var. inermis</i>

Table 04-14: Permitted Street Tree Species

Bold text indicates evergreen species | Parentheses indicates prohibited as an interior tree

Common Name	Scientific Name
Kentucky Coffee Tree	<i>Gymnocladus dioica</i>
Tulip Tree	<i>Liriodendron tulipifera</i>
Blackgum or Tupelo	<i>Nyssa sylvatica</i>
Sycamore	<i>Platanus occidentalis</i>
(London Planetree)	<i>(Platanus x acerfolia)</i>
White Oak	<i>Quercus alba</i>
Swamp White Oak	<i>Quercus bicolor</i>
Scarlet Oak	<i>Quercus coccinea</i>
Shingle Oak	<i>Quercus imbricaria</i>
Overcup Oak	<i>Quercus lyrata</i>
Bur Oak	<i>Quercus macrocarpa</i>
Chestnut Oak	<i>Quercus montana</i>
Chinkapin Oak or Chinquapin Oak	<i>Quercus muehlenbergii</i>
Willow Oak	<i>Quercus phellos</i>
Red Oak	<i>Quercus rubra</i>
Shumard Oak	<i>Quercus shumardii</i>
Post Oak	<i>Quercus stellata</i>
Black Oak	<i>Quercus velutina</i>
Bald Cypress	<i>Taxodium distichum</i>
Basswood or American Linden	<i>Tilia americana</i>
American Elm	<i>Ulmus Americana (resistant cultivars)</i>
Medium Street Trees - 25 feet to 45 feet at mature height	
Downy Serviceberry	<i>Amelanchier arborea</i>
River Birch	<i>Betula nigra</i>
American Hornbeam or Blue Beech	<i>Carpinus caroliniana</i>
Yellowwood	<i>Cladrastis kentukea</i>
Hop Hornbeam or Ironwood	<i>Ostrya virginiana</i>
Sourwood	<i>Oxydendrum arboretum</i>
Blackjack Oak	<i>Quercus marilandica</i>
(Crimson Spire Oak)	<i>(Quercus robur x Q. alba 'Crimschmidt')</i>
(Regal Prince Oak)	<i>(Quercus robur 'Fastigiata' x Q. bicolor 'Long')</i>
Small Street Trees - Under 25 feet at mature height	
Apollo Maple	<i>Acer saccharum 'Barrett Cole'</i>
Shadblow Serviceberry	<i>Amelanchier canadensis</i>
Allegheny Serviceberry	<i>Amelanchier laevis</i>
(Apple Serviceberry hybrids)	<i>(Amelanchier x grandiflora)</i>
Eastern Redbud	<i>Cercis canadensis</i>

Table 04-14: Permitted Street Tree Species

Bold text indicates evergreen species | Parentheses indicates prohibited as an interior tree

Common Name	Scientific Name
Flowering Dogwood	<i>Cornus florida</i>
(Smoke Tree)	(<i>Continus obovatus</i>)
Thornless Cockspur Hawthorn	<i>Crataegus crus-galli</i>
Washington Hawthorn	<i>Crataegus phaenopyrum</i>
Green Hawthorn	<i>Crataegus viridis</i>

Table 04-15: Permitted Interior Tree Species

Bold text indicates evergreen species

Common Name	Scientific Name
Large Interior Trees - 45 feet or more at mature height	
Black Maple	<i>Acer nigrum</i> (now a subspecies of <i>acer saccharum</i>)
Red Maple	<i>Acer rubrum</i>
Sugar Maple	<i>Acer saccharum</i>
Yellow Buckeye	<i>Aesculus flava</i> (formally <i>A. octandra</i>)
Ohio Buckeye	<i>Aesculus glabra</i>
Bitternut Hickory	<i>Carya cordiformis</i>
Pignut Hickory	<i>Carya glabra</i>
Northern Pecan	<i>Carya illinoensis</i>
Shellbark Hickory	<i>Carya laciniata</i>
Shagbark Hickory	<i>Carya ovata</i>
Mockernut Hickory	<i>Carya tomentosa</i>
Northern Catalpa	<i>Catalpa speciosa</i>
American Beech	<i>Fagus grandfolia</i>
Black Walnut	<i>Juglans nigra</i>
Eastern Red Cedar	<i>Juniperus virginiana</i>
Sweetgum	<i>Liquidambar styraciflua</i>
Cucumber Tree	<i>Magnolia acuminata</i>
White Pine	<i>Pinus strobus</i>
Virginia Pine	<i>Pinus virginiana</i>
Black Cherry	<i>Prunus serotina</i>
Chestnut Oak	<i>Quercus prinus</i>
Black willow	<i>Salix nigra</i>
Canadian or Eastern Hemlock	<i>Tsuga canadensis</i>

Table 04-15: Permitted Interior Tree Species

Bold text indicates evergreen species

Common Name	Scientific Name
Medium Interior Trees - 25 feet to 45 feet at mature height	
Southern Catalpa	<i>Catalpa bignoniodes</i>
Downy Hawthorn	<i>Crataegus mollis</i>
Persimmon	<i>Diospyros virginiana</i>
American Holly	<i>Ilex opaca</i>
Sassafras	<i>Sassafras albidum</i>
American Arborvitae	<i>Thuja occidentalis</i>
Small Interior Trees - Under 25 feet at mature height	
Red Buckeye	<i>Aesulus pavia</i>
Devil's Walking Stick	<i>Aralia spinose</i>
Pawpaw	<i>Asmini triloba</i>
Pagoda Dogwood	<i>Cornus alterifolia</i>
Down Hawthorn	<i>Crataegus mollis</i>
Silverbell	<i>Halesia carolina</i>
American Plum	<i>Prunus americana</i>
Chickasaw Plum	<i>Prunus angustifolia</i>
Hoptree	<i>Ptelia trifoliata</i>
Dwarf Chinquapin Oak	<i>Quercus prinoides</i>
Winged Sumac or Shining Sumac	<i>Rhus copallina</i>
Shining Sumac or Smooth Sumac	<i>Rhus glabra</i>
Staghorn Sumac	<i>Rhus typhina</i>

Table 04-16: Permitted Shrub Species

Bold text indicates evergreen species

Common Name	Scientific Name
Indigo Bush	<i>Amorpha fruticosa</i>
Red Chokeberry	<i>Aronia arbutifolia</i>
Black Chokeberry	<i>Aronia melanocarpa</i>
New Jersey Tea	<i>Ceanothus americanus</i>
Buttonbush	<i>Cephalanthus occidentalis</i>
Silky Dogwood	<i>Cornus amomum</i>
Rough-leaved Dogwood	<i>Cornus drummondii</i>
Gray Dogwood	<i>Cornus racemosa</i>
Red-Twig Dogwood	<i>Cornus sericea</i>
American Hazelnut	<i>Corylus americana</i>
Eastern Witchhazel	<i>Hamamelis virginiana</i>
Smooth Hydrangea	<i>Hydrangea arborescens</i>

Table 04-16: Permitted Shrub Species

Bold text indicates evergreen species

Common Name	Scientific Name
Golden St. John's wort	<i>Hypericum frondosum</i>
Possumhaw	<i>Ilex decidua</i>
Inkberry	<i>Ilex glabra</i>
Winterberry Holly	<i>Ilex verticillata</i>
Virginia Sweetpire	<i>Itea virginica</i>
Common Juniper	<i>Juniperus communis</i>
Spicebush	<i>Lindera benzoin</i>
Ninebark	<i>Physocarpus opulifolius</i>
Sand Cherry	<i>Prunus pumila</i>
Fragrant Sumac	<i>Rhus aromatica</i>
Prickly Gooseberry	<i>Ribes cynosbati</i>
Swamp Rose	<i>Rosa palustris</i>
Climbing Rose	<i>Rosa setigera</i>
Virginia Rose	<i>Rosa virginiana</i>
Purple Flowering Raspberry	<i>Rubus odoratus</i>
Pussy Willow	<i>Salix discolor</i>
American Black Elderberry	<i>Sambucus canadensis</i>
Bladdernut	<i>Staphylea trifolia</i>
Coralberry	<i>Symphoricarpos orbiculatus</i>
Canadian Yew	<i>Taxus canadensis</i>
Highbush Blueberry	<i>Vaccinium corymbosum</i>
Hillside Blueberry	<i>Vaccinium pallidum</i>
Mapleleaf Viburnum	<i>Viburnum acerifolium</i>
Arrowwood Viburnum	<i>Viburnum dentatum</i>
Nannyberry	<i>Viburnum lentago</i>
Blackhaw	<i>Viburnum prunifolium</i>
Rusty Blackhaw	<i>Viburnum rufidulum</i>
Prickly Ash	<i>Zanthoxylum americanum</i>

Table 04-15: Permitted Herbaceous Flowering Perennial Plant Species

Bold text indicates evergreen species

Common Name	Scientific Name
Flowering Perennials	
Purple giant hyssop	<i>Agastache scrophulariaefolia</i>
Nodding wild onion	<i>Allium cernuum</i>
Lead plant	<i>Amorpha canescens</i>
Bluestar	<i>Amsonia tabernaemontana</i>
Canada Anemone	<i>Anemone canadensis</i>
Thimbleflower	<i>Anemone virginiana</i>
Wild Columbine	<i>Aquilegia canadensis</i>
Pale Indiana Plantain	<i>Arnoglossum atriplicifolium</i>
Goatsbeard	<i>Aruncus dioicus</i>
Poke milkweed	<i>Asclepias exaltata</i>
Tall green milkweed	<i>Asclepias hirtella</i>
Swamp or Marsh Milkweed	<i>Asclepias incarnata</i>
Purple Milkweed	<i>Asclepias purpurascens</i>
Showy milkweed	<i>Asclepias speciosa</i>
Prairie milkweed	<i>Asclepias sullivantii</i>
Common Milkweed	<i>Asclepias syriaca</i>
Butterflyweed	<i>Asclepias tuberosa</i>
Whorled milkweed	<i>Asclepias verticillata</i>
Spider milkweed	<i>Asclepias virdis</i>
Lindley's Heard-leave Aster	<i>Aster ciliolatus (Symphyotrichum ciliolatum)</i>
Blue Wood Aster	<i>Aster cordifolius</i>
Heath Aster	<i>Aster ericoides (Symphyotrichum ericoides)</i>
Smooth Aster	<i>Aster laevis</i>
New England Aster	<i>Aster novae-angliae (Symphyotrichum novae-angliae)</i>
Aromatic Aster	<i>Aster oblongifolius (Symphyotrichum oblongifolium)</i>
Sky-blue Aster	<i>Aster oolentangiensis (Symphyotrichum oolentangiensis)</i>
Swamp Aster	<i>Aster puniceus (Symphyotrichum puniceum)</i>
Short's Aster	<i>Aster shortii (Symphyotrichum shortii)</i>
Flat-topped Aster	<i>Aster umbellatus (Doellingeria umbellata)</i>
False White Indigo	<i>Baptisia alba</i>
False Blue Indigo	<i>Baptisia australis</i>
False Yellow Indigo	<i>Baptisia tinctoria</i>
Downy wood mint	<i>Blephilia ciliata</i>
Hairy wood mint	<i>Blephilia hirsuta</i>
False chamomile or false aster	<i>Boltonia asteroides</i>

Table 04-15: Permitted Herbaceous Flowering Perennial Plant Species**Bold** text indicates evergreen species

Common Name	Scientific Name
Clustered poppy mallow	<i>Callirhoe triangulata</i>
Marsh marigold	<i>Caltha palustris</i>
Tall bellflower	<i>Campanula americana</i>
White turtlehead	<i>Chelone glabra</i>
Pink Turtlehead	<i>Chelone obliqua</i>
Black cohosh	<i>Cimicifuga racemosa</i>
Lance-leaved coreopsis	<i>Coreopsis lanceolata</i>
Prairie coreopsis	<i>Coreopsis palmata</i>
Tall Coreopsis	<i>Coreopsis tripteris</i>
White prairie clover	<i>Dalea candida</i>
Purple prairie clover	<i>Dalea purpureum</i>
Larkspur	<i>Delphinium tricornis</i>
Pale purple coneflower	<i>Echinacea pallida</i>
Purple coneflower	<i>Echinacea purpurea</i>
Rattlesnake master	<i>Eryngium yuccifolium</i>
Common boneset	<i>Eupatorium perfoliatum</i>
Flowering spurge	<i>Euphorbia corollata</i>
Grass-leaved goldenrod	<i>Euthamia graminifolia</i>
Hollow Joe-Pye weed	<i>Eutrochium fistulosum</i> (syn. <i>Eupatorium fistulosum</i>)
Spotted-Joe-Pyeweed	<i>Eutrochium maculatum</i> (syn. <i>Eupatorium maculatum</i>)
Purple Joe-Pye weed	<i>Eutrochium purpureum</i> (syn. <i>Eupatorium purpureum</i>)
Queen of the prairie	<i>Filipendula rubra</i>
Bottle Gentian	<i>Gentiana andrewsii</i>
Wild Geranium	<i>Geranium maculatum</i>
Autumn Sneezeweed	<i>Helenium autumnale</i>
Woodland Sunflower	<i>Helianthus divaricatus</i>
Downy Sunflower	<i>Helianthus mollis</i>
Western Sunflower	<i>Helianthus occidentalis</i>
Stiff or Prairie Sunflower	<i>Helianthus pauciflorus</i>
False Sunflower	<i>Heliopsis helianthoides</i>
American alumroot	<i>Heuchera americana</i>
Prairie Alumroot	<i>Heuchera richardsonii</i>
Rose Mallow	<i>Hibiscus laevis</i>
Swamp Rose Mallow	<i>Hibiscus moscheutos</i>
Dwarf Crested Iris	<i>Iris cristata</i>
Blue Flag Iris	<i>Iris virginica</i>
Violet Lespedeza	<i>Lespedeza violacea</i>
Rough Blazingstar	<i>Liatris aspera</i>

Table 04-15: Permitted Herbaceous Flowering Perennial Plant Species**Bold** text indicates evergreen species

Common Name	Scientific Name
Dwarf Blazingstar	<i>Liatris microcephala</i>
Prairie Blazing Star	<i>Liatris pycnostachya</i>
Northern Blazingstar	<i>Liatris scariosa</i>
Dense Blazingstar, Spiked Blazingstar	<i>Liatris spicata</i>
Cardinal Flower	<i>Lobelia cardinalis</i>
Downy Lobelia	<i>Lobelia puberula</i>
Great Blue Lobelia	<i>Lobelia siphilitica</i>
Virginia Bluebells	<i>Mertensia virginica</i>
Bergamot or Bee-balm	<i>Monarda fistulosa</i>
Purple Prairie Clover	<i>Petalostemum purpureum</i>
Blue Phlox, Woodland Phlox	<i>Phlox divaricata</i>
Summer Phlox, Tall Phlox	<i>Phlox paniculata</i>
Obedient Plant	<i>Physostegia virginiana</i>
Jacob's Ladder	<i>Polemonium reptans</i>
Solomon's Seal	<i>Polygonatum biflorum</i>
Prairie Cinquefoil	<i>Potentilla arguta</i>
Hoary Mountain Mint	<i>Pycnanthemum incanum</i>
Hairy Mountain Mint	<i>Pycnanthemum pilosum</i>
Narrow-leaved Mountain Mint	<i>Pycnanthemum tenuifolium</i>
Virginia Mountain Mint	<i>Pycnanthemum virginianum</i>
Pinnate Prairie Coneflower	<i>Ratibida pinnata</i>
Orange Coneflower	<i>Rudbeckia fulgida</i>
Green-Headed Coneflower	<i>Rudbeckia laciniata</i>
Sweet Susan Coneflower	<i>Rudbeckia subtomentosa</i>
Wild Petunia	<i>Ruellia humilis</i>
Blue Sage	<i>Salvia azurea</i>
Lyre-leaved Sage	<i>Salvia lyrata</i>
Late-flowering Figwort	<i>Scrophularia marilandica</i>
Downey Skullcap	<i>Scutellaria incana</i>
Heart-leaved Scullcap	<i>Scutellaria ovata</i>
Wild Stonecrop	<i>Sedum ternatum</i>
Wild Senna	<i>Senna hebecarpa</i>
Maryland Senna	<i>Senna manilandica</i>
Royal Catchfly	<i>Silene regia</i>
Fire Pink	<i>Silene virginica</i>
Rosinweed	<i>Silphium integrifolium</i>
Compass Plant	<i>Silphium laciniatum</i>
Cup Plant	<i>Silphium perfoliatum</i>

Table 04-15: Permitted Herbaceous Flowering Perennial Plant Species**Bold** text indicates evergreen species

Common Name	Scientific Name
Cutleaf Prairie Dock	<i>Silphium pinnatifidum</i>
Prairie Dock	<i>Silphium terebinthinaceum</i>
Whorled Rosinweed	<i>Silphium trifoliatum</i>
Blue-eyed Grass	<i>Sisyrinchium angustifolium</i>
Solomon's Plume	<i>Smilacina racemosa</i>
Blue-stemmed Goldenrod	<i>Solidago caesia</i>
Zig-zag Goldenrod	<i>Solidago flexicaulis</i>
Tall Goldenrod	<i>Solidago gigantea</i>
Early Goldenrod	<i>Solidago juncea</i>
Grey Goldenrod	<i>Solidago nemoralis</i>
Swamp Goldenrod	<i>Solidago patula</i>
Stiff Goldenrod	<i>Solidago rigida</i>
Rough-leaved Goldenrod	<i>Solidago rugosa</i>
Showy Goldenrod	<i>Solidago speciosa</i>
Indian Pink	<i>Spigelia marilandica</i>
Celandine Poppy	<i>Stylophorum diphyllum</i>
Ohio Spiderwort	<i>Tradescantia ohiensis</i>
Virginia Spiderwort	<i>Tradescantia virginiana</i>
Bellwort or Merrybells	<i>Uvularia grandiflora</i>
Blue Vervain	<i>Verbena hastata</i>
Hoary Vervain	<i>Verbena stricta</i>
Yellow Wingstem	<i>Verbesina alternifolia</i>
Smooth Ironweed	<i>Vernonia fasciculata</i>
Missouri Ironweed	<i>Vernonia missurica</i>
Culver's Root	<i>Veronicastrum virginicum</i>
Golden Alexander	<i>Zizia aurea</i>
Ground Covers	
Canada Anemone	<i>Anemone canadensis</i>
Pussytoes	<i>Antennaria plantaginifolia</i>
Wild Ginger	<i>Asarum canadense</i>
Purple poppy malow	<i>Callirhoe involucrate</i>
Common Oak Sedge or Pennsylvania Sedge	<i>Carex pensylvanica</i>
Wild Strawberry	<i>Fragaria virginiana</i>
Dwarf Crested Iris	<i>Iris cristata</i>
Creeping Juniper	<i>Juniperus horizontalis</i>
Golden Ragwort	<i>Packera aurea</i>
Roundleaf Ragwort	<i>Packera obovata</i>
Cleft Phlox	<i>Phlox bifida</i>

Table 04-15: Permitted Herbaceous Flowering Perennial Plant Species**Bold** text indicates evergreen species

Common Name	Scientific Name
Creeping Phlox	<i>Phlox subulata</i>
Partridge Berry	<i>Mitchella repens</i>
Wild Stonecrop	<i>Sedum ternatum</i>
Violet	<i>Viola sororia</i>
Vines	
Wooly Douchman's Pipe	<i>Aristolochia tomentosa</i>
Crossvine	<i>Bignonia capreolata</i>
Trumpet Creeper	<i>Campsis radicans</i>
Virgin's Bower (native clematis)	<i>Clematis virginiana</i>
Virginia Creeper	<i>Parthenocissus quinquefolia</i>
Yellow Passionflower	<i>Passiflora lutea</i>
Ferns	
Maidenhair Fern	<i>Adiantum pedatum</i>
Lady Fern	<i>Athyrium filix-femina</i>
Giant Wood Fern or Goldie's Fern	<i>Dryopteris goldiana</i>
Evergreen Shield Fern	<i>Dryopteris marginalis</i>
Ostrich Fern	<i>Matteuccia struthiopteris</i>
Sensitive Fern	<i>Onoclea sensibilis</i>
Cinnamon Fern	<i>Osmunda cinnamomea</i>
Royal Fern	<i>Osunda regalis</i>
Christmas Fern	<i>Polystichum acrostichoides</i>
Graminoids	
Big Bluestem	<i>Andropogon gerardii</i>
Broomsedge	<i>Andropogon virginicus</i>
Side-Oats Gramma	<i>Bouteloua curtipendula</i>
Oak Sedge	<i>Carex albicans</i>
Yellow Fox Sedge	<i>Carex annectens</i>
Appalachian Sedge	<i>Carex appalachia</i>
Plains Oval Sedge	<i>Carex brevior</i>
Fringed Sedge	<i>Carex crinita</i>
Crested Sedge	<i>Carex cristatella</i>
Blue Wood Sedge	<i>Carex flaccosperma</i>
Gray's Sedge	<i>Carex grayii</i>
Hop Sedge	<i>Carex lupulina</i>
Palm Sedge	<i>Carex muskingumensis</i>
Pennsylvania Sedge	<i>Carex pennsylvanica</i>
Seersucker Sedge	<i>Carex plantaginea</i>

Table 04-15: Permitted Herbaceous Flowering Perennial Plant Species**Bold** text indicates evergreen species

Common Name	Scientific Name
Eastern Star Sedge or Straight-Styled Wood Sedge	<i>Carex radiata</i>
Lanced-fruited, or Broom Sedge	<i>Carex scoparia</i>
Short's Sedge	<i>Carex shortiana</i>
Brown Fox Sedge	<i>Carex vulpinoidea</i>
Indian Seaoats or River Oats	<i>Chasmanthium latifolium</i>
Tufted Hair Grass	<i>Deschampsia caespitosa</i>
Canada Wild Rye	<i>Elymus canadensis</i>
Bottlebrush Grass	<i>Elymus hystrix</i>
Silky Wild rye	<i>Elymus villosus</i>
Virginia Wild Rye	<i>Elymus virginicus</i>
Purple Love Grass	<i>Eragrostis spectabilis</i>
Soft Rush	<i>Juncus effuses</i>
Torrey's Rush	<i>Juncus torreyi</i>
Switchgrass	<i>Panicum virgatum</i>
Little Bluestem	<i>Schizachyrium scoparium</i>
Dark Green Bulrush	<i>Scirpus atrovirens</i>
Woolgrass	<i>Scirpus cyperinus</i>
Georgia Bulrush	<i>Scirpus georgianus</i>
Indian grass	<i>Sorghastrum nutans</i> , <i>syn. Andropogon nutans</i>
Prairie Cordgrass	<i>Spartina pectinata</i>
Prairie Dropseed	<i>Sporobolus heterolepis</i>

(e) Prohibited Plant Species

Species identified in Table 04-18: Prohibited Plant Species are considered unacceptable and shall not be planted because of invasive characteristics, weak wood, and/or abundant litter.

Table 04-18: Prohibited Plant Species

+ = Indiana State-listed noxious weeds (IC 15-16-7)

* = Indiana detrimental plants (IC 15-16-8) ^ = Indiana terrestrial plant rule (312 IAC 18-3-25)

@ = Indiana multiflora rose and purple loosestrife restrictions (312 IAC 18-3-13)

= Indiana control of kudzu rule (312 IAC 18-3-16)

Common Name	Scientific Name
Prohibited Invasive Trees	
Hedge Maple	<i>Acer campestre</i>
Amur Maple	<i>Acer ginnala</i>
Norway Maple	<i>Acer platanoides</i>
Sycamore Maple	<i>Acer pseudoplatanus</i>
Tree-of-Heaven	<i>Ailanthus altissima</i> ^

Table 04-18: Prohibited Plant Species

+ = Indiana State-listed noxious weeds (IC 15-16-7)

* = Indiana detrimental plants (IC 15-16-8) ^ = Indiana terrestrial plant rule (312 IAC 18-3-25)

@ = Indiana multiflora rose and purple loosestrife restrictions (312 IAC 18-3-13)

= Indiana control of kudzu rule (312 IAC 18-3-16)

Common Name	Scientific Name
Mimosa	<i>Albizia julibrissin</i>
Black Alder	<i>Alnus glutinosa</i> ^
Kousa Dogwood	<i>Cornus kousa</i>
Cornelian Cherry Dogwood	<i>Cornus mas</i>
Russian Olive	<i>Elaeagnus angustifolia</i>
Autumn Olive	<i>Elaeagnus umbellata</i> ^
Hardy Rubber Tree	<i>Eucommia ulmoide</i>
Glossy Buckthorn	<i>Frangula alnus</i> ^
Golden Raintree	<i>Koelreuteria paniculata</i>
Chinaberry Tree	<i>Melia azedarach</i>
White Mulberry	<i>Morus alba</i> ^
Princess Tree	<i>Paulownia tomentosa</i>
Sawtooth Oak	<i>Quercus acutissima</i>
Amur Cork Tree	<i>Phellodendron amurense</i> ^
Callery Pear and all cultivars	<i>Pyrus calleryana</i>
European or Common Buckthorn and all cultivars	<i>Rhamnus cathartica</i> ^
Glossy or Smooth Buckthorn and all cultivars	<i>Rhamnus frangula</i> ^
Buckthorn Tallhedge and all cultivars including 'Fineline'	<i>Rhamnus frangula columnaris</i> ^
Black Locust	<i>Robinia pseudoacacia</i>
Siberian Elm	<i>Ulmus pumila</i> ^
Japanese Zelkova	<i>Zelkova serrata</i>
Prohibited Plants with Poor or Nuisance Characteristics	
Box Elder	<i>Acer negundo</i>
Silver maple	<i>Acer saccharinum</i>
Ragweed	<i>Ambrosia artemisiifolia</i>
Giant Ragweed	<i>Ambrosia trifida</i>
Tropical Milkweed	<i>Asclepias curassavica</i>
European White Birch	<i>Betula pendula</i>
Poison Hemlock	<i>Conium maculatum</i> L.
Ash	<i>Fraxinus</i> species
Ginkgo (female only)	<i>Ginkgo biloba</i>
Giant Hogweed or Giant Cow Parsnip or Wild Parsnip	<i>Heracleum mantegazzianum</i>
Rice Cutgrass	<i>Leersia oryzoides</i>
Flowering Crabapple	<i>Malus</i>
Heavenly Bamboo	<i>Nandina domestica</i>

Table 04-18: Prohibited Plant Species

+ = Indiana State-listed noxious weeds (IC 15-16-7)

* = Indiana detrimental plants (IC 15-16-8) ^ = Indiana terrestrial plant rule (312 IAC 18-3-25)

@ = Indiana multiflora rose and purple loosestrife restrictions (312 IAC 18-3-13)

= Indiana control of kudzu rule (312 IAC 18-3-16)

Common Name	Scientific Name
Wild Parsnip	<i>Pastinaca sativa</i>
American Elm	<i>Ulmus Americana</i>
Poison Ivy	<i>Toxicodendron radicans</i>
Poison Sumac	<i>Toxicodendron vernix</i>
Stinging Nettle	<i>Urtica dioica</i>
Burning Nettle	<i>Urtica urens</i>
Prohibited Invasive Herbaceous Perennials and Forbs	
Japanese Chaff Flower	<i>Achyranthes japonica</i> ^
Wild Garlic and Wild Onion	<i>Alliums spp.</i>
Garlic Mustard	<i>Alliaria petiolata</i> ^
Smooth Pigweed	<i>Amaranthus hybridus</i> +
Palmer Amaranth or carelessweed	<i>Amaranthus palmeri</i> +
Powell Amaranth	<i>Amaranthus powellii</i> +
Rough Pigweed	<i>Amaranthus retroflexus</i> +
Common Waterhemp	<i>Amaranthus rudis</i> +
Tall Waterhemp	<i>Amaranthus tuberculatus</i> +
Mugwort	<i>Artemisia vulgaris</i> ^
Italian Arum	<i>Arum italicum</i>
Narrowleaf Bittercress	<i>Cardamine impatiens</i>
Spiny Plumeless Thistle	<i>Carduus acanthoides</i> ^
Cornflower or Bachelor's Button	<i>Centaurea cyanus</i>
Russian Knapweed	<i>Centaurea repens</i>
Spotted Knapweed	<i>Centaurea stoebe</i> ^
Canada Thistle	<i>Cirsium arvense</i> *+
Bull Thistle	<i>Cirsium vulgare</i> ^
Poison Hemlock	<i>Conium maculatum</i> +
Marestail or Horsetail	<i>Conyza canadensis</i> +
Queen Anne's Lace	<i>Daucus carota</i>
Grecian Foxglove	<i>Digitalis lanata</i>
Teasel	<i>Dipsacus fullonum ssp. sylvestris</i> ^
Cutleaf Teasel	<i>Dipsacus laciniatus</i> ^
Leafy Spurge	<i>Euphorbia virgata</i> ^
Mulberry weed, Hairy Crabweed	<i>Fatoua villosa</i>
Giant Hogweed	<i>Heracleum mantegazzianum</i>
Dame's Rocket	<i>Hesperis matronalis</i> ^

Table 04-18: Prohibited Plant Species

+ = Indiana State-listed noxious weeds (IC 15-16-7)

* = Indiana detrimental plants (IC 15-16-8) ^ = Indiana terrestrial plant rule (312 IAC 18-3-25)

@ = Indiana multiflora rose and purple loosestrife restrictions (312 IAC 18-3-13)

= Indiana control of kudzu rule (312 IAC 18-3-16)

Common Name	Scientific Name
Meadow Fleabane or British Yellowhead	<i>Inula britannica</i>
Korean Lespedeza	<i>Kummerowia stipulacea</i>
Striate Lespedeza	<i>Kummerowia striata</i>
Perennial Peppergrass	<i>Lepidium draba</i> ^
Pepperweed	<i>Lepidium latifolium</i> ^
Bicolor Lespedeza	<i>Lespedeza bicolor</i>
Sericea Lespedeza	<i>Lespedeza cuneata</i> ^
Purple Loosestrife	<i>Lythrum salicaria</i> @
White Sweet Clover	<i>Melilotus alba</i>
Yellow Sweet Clover	<i>Melilotus officinalis</i>
Star of Bethlehem	<i>Ornithogalum umbellatum</i>
Lesser Celandine	<i>Ranunculus ficaria</i>
Beefsteak Plant	<i>Perilla frutescens</i>
Japanese Knotweed	<i>Polygonum cuspidatum</i> , <i>Reynoutria japonica</i> , <i>Fallopia japonica</i> ^
Giant Knotweed	<i>Reynoutria sachalinensis</i> ^
Bohemian Knotweed	<i>Reynoutria x bohemica</i> ^
Bouncing Bet	<i>Saponaria officinalis</i>
Perennial Sowthistle	<i>Sonchus arvensis</i>
Spreading Hedge Parsley	<i>Torilis arvensis</i>
Japanese Hedge Parsley	<i>Torilis japonica</i>
Black Swallow-Wort	<i>Vincetoxicum nigrum</i> ^
Pale Swallow-Wort	<i>Vincetoxicum rossicum</i> ^
Prohibited Invasive Graminoids	
Quackgrass	<i>Agropyron repens</i>
Giant Reed	<i>Arundo donax</i>
Small Carpgrass	<i>Arthraxon hispidus</i> ^
Smooth Brome	<i>Bromus inermis</i>
Tall Fescue and all cultivars	<i>Festuca elatior</i>
Cogon grass, Japanese Blood Grass	<i>Imperata cylindrica</i>
Japanese Stiltgrass	<i>Microstegium vimineum</i> ^
Maiden Grass	<i>Miscanthus sinensis</i>
Reed Canary Grass	<i>Phalaris arundinacea</i> ^
Common Reed Grass	<i>Phragmites australis</i> ^
Ravenna Grass	<i>Saccharum ravennae</i>

Table 04-18: Prohibited Plant Species

+ = Indiana State-listed noxious weeds (IC 15-16-7)

* = Indiana detrimental plants (IC 15-16-8) ^ = Indiana terrestrial plant rule (312 IAC 18-3-25)

@ = Indiana multiflora rose and purple loosestrife restrictions (312 IAC 18-3-13)

= Indiana control of kudzu rule (312 IAC 18-3-16)

Common Name	Scientific Name
Tall Fescue	<i>Schedonorus arundinaceus</i>
Columbus Grass	<i>Sorghum x alnum</i> Parodi *+
Shattercane	<i>Sorghum bicolor</i> *+
Johnson Grass or Sorghum Alnum	<i>Sorghum halepense</i> *+
Yellow Groove Bamboo	<i>Phyllostachys aureosulcata</i>
Prohibited Invasive Vines and Groundcovers	
Porcelain Berry	<i>Ampelopsis brevipedunculata</i>
Oriental Bittersweet	<i>Celastrus orbiculatus</i> ^
Asiatic Bittersweet	<i>Celastrus scandens</i>
Sweet Autumn Clematis	<i>Clematis terniflora</i>
Field Bindweed	<i>Convolvulus arvensis</i> ^
Crown Vetch	<i>Coronilla varia</i> ^
Black Swallow-Wort	<i>Cynanchum nigrum</i> , syn. <i>Vincetoxicum nigrum</i> ^
Pale Swallow-Wort	<i>Cynanchum rossicum</i> ^
Potato Vine	<i>Dioscorea batatas</i>
Chinese Yam	<i>Dioscorea oppositifolia</i> ^
Purple Winter Creeper	<i>Euonymus fortunei</i> ^
Creeping Charlie	<i>Glechoma hederacea</i>
English Ivy	<i>Hedera helix</i>
Japanese Hops	<i>Humulus japonicus</i> ^
Yellow Archangel	<i>Lamium galeobdolum</i>
Japanese Honeysuckle	<i>Lonicera japonica</i> ^
Creeping Jenny or Moneywort	<i>Lysimachia nummularia</i>
Mile-A-Minute Weed or Mile-A-Minute Vine	<i>Polygonum perfoliatum</i> ^, <i>Persicaria perfoliata</i> ^
Kudzu	<i>Pueraria montana lobata</i> #
Bur Cucumber	<i>Sicyos angulatus</i> *+
Vetch	<i>Vicia cracca</i>
Periwinkle or Myrtle	<i>Vinca minor</i>
Wisteria	<i>Wisteria sinensis</i>
Prohibited Invasive Shrubs	
Black Alder	<i>Alnus glutinosa</i> ^
Japanese Barberry	<i>Berberis thunbergii</i> ^
Butterfly Bush	<i>Buddleia davidii</i>
Burning Bush	<i>Euonymus alatus</i>
Blunt-Leaved Privet	<i>Ligustrum obusifolium</i> ^

Table 04-18: Prohibited Plant Species

+ = Indiana State-listed noxious weeds (IC 15-16-7)

* = Indiana detrimental plants (IC 15-16-8) ^ = Indiana terrestrial plant rule (312 IAC 18-3-25)

@ = Indiana multiflora rose and purple loosestrife restrictions (312 IAC 18-3-13)

= Indiana control of kudzu rule (312 IAC 18-3-16)

Common Name	Scientific Name
Common Privet	<i>Ligustrum vulgare</i> ^
Bush or Amur Honeysuckle	<i>Lonicera maackii</i> ^
Morrow's Honeysuckle	<i>Lonicera morowii</i> ^
Tatarian Honeysuckle	<i>Lonicera tatarica</i> ^
Bell's Honeysuckle	<i>Lonicera x bella</i> ^
Heavenly Bamboo, Sacred bamboo	<i>Nandina domestica</i>
Jetbead	<i>Rhodotypos scandens</i> ^
Bristly Locust	<i>Robinia hispida</i>
Multiflora Rose	<i>Rosa multiflora</i> @
Wineberry	<i>Rubus phoenicolasius</i>
Japanese Spirea or Japanese Meadowsweet	<i>Spiraea japonica</i>
Atlantic Poison Oak	<i>Toxicodendron pubescens</i> , syn. <i>Rhus pubescens</i>
European Highbush Cranberry	<i>Viburnum opulus</i> var. <i>opulus</i>

(f) Street Trees**(1) Number**

The minimum number of required street trees to be planted shall be one large canopy tree for every 30 feet of property that abuts a public right-of-way. If medium or small trees are allowed, two medium or small trees can be substituted for each large canopy tree.

(2) Type

Street tree species shall be subject to approval by the City's Urban Forester based on hardiness, seasonal appearance, species diversity, carbon sequestration, and contribution to shading and cooling.

(3) Location**(A) Freeway/Expressway**

Street trees along a limited-access highway shall be planted within 15 feet of the property line that abuts the limited-access highway. No trees shall be planted in the right-of-way.

(B) Arterial, Collector, Local or Private Street

Street trees along an arterial, collector, local, or private street shall be planted in a minimum five-foot wide tree plot between the sidewalk and the curb. If a tree plot is not available, then the street trees shall be planted within the front yard immediately adjacent to the street. Street trees planted within the front yard shall not count towards other landscaping requirements.

(C) Separation

The spacing between adjacent street trees shall be no less than 10 feet from the center of one tree to the next... Street trees shall be planted no more than 30 feet apart, from the center of one tree to the next, except that street trees with separation exceeding 30 feet may be approved by the Planning and Transportation Department because of site constraints, such as utility or driveway location.

(D) Tree Grates

Street trees may be planted in a minimum five foot by five-foot tree pit covered with an ADA compliant cast iron grate to maintain a flush grade with adjacent sidewalks.

(E) Planting

All street trees shall be planted, stabilized, and mulched according to this UDO and the Administrative Manual.

(F) Vision Clearance

- i. Street trees shall be planted outside the vision clearance triangle, as defined in Section 20.04.050(c)(4) (Vision Clearance Triangle), or within that portion of the vision clearance triangle behind the sidewalk.
- ii. Low-branching species shall not be allowed within 50 feet of an intersection.
- iii. Locations for street trees within 50 feet of an intersection shall be approved by the City Engineering Department.
- iv. Street trees shall be located a minimum of 10 feet from a driveway cut, traffic control sign, or streetlight, and a minimum of three feet from a fire hydrant.

(4) MD District**(A) Generally**

Street trees shall be planted in a minimum five foot by five-foot tree pit covered with an ADA compliant cast iron grate to maintain a flush grade with adjacent sidewalks, subject to approval by the Transportation and Traffic Engineer.

(B) Alternatives

The following street tree planting methods may be used in lieu of the five foot by five-foot grate, subject to approval by the Transportation and Traffic Engineer.

- i. Street trees may be planted in a minimum five-foot-wide grassed tree plot area; or
- ii. Street trees may be planted in a large curbed planting area.

(g) Buffer Yards

(1) Purpose

Buffer yards are required to mitigate or minimize potential nuisances such as noise, light, glare, dirt, litter, signs, parking, or storage areas and to provide a transition between incompatible uses.

(2) General Standards**(A) Responsibility**

The developer or owner of the property being developed is responsible for installing and maintaining in perpetuity the buffer yard at the time of that development. The adjacent property owner shall not be required to participate in the installation of the buffer yard.

(B) Location

All required buffer yard areas shall be provided entirely on the subject property. The required buffer yards shall be installed despite the presence of alleys, streams or other features that may separate the two properties.

(C) Plant Material

All plant material used to meet the buffer yard requirements shall meet the standards of this section, and shall be selected from the list of permitted plant species in Section 20.04.080(d).

(D) Planned Unit Development

For development adjacent to a Planned Unit Development, or for a Planned Unit Development adjacent to existing development, the zoning district that most closely matches the predominant use of the Planned Unit Development shall be used to determine the buffer yard type, as determined by the decision-making body.

(E) Credit Toward Other Requirements

New landscaping that is required to meet these buffer yard requirements shall not count toward other site or parking lot landscaping requirements.

(F) Prohibited Uses

Buildings, parking areas, swimming pools, or drive aisles are not allowed within buffer yards.

(3) Buffer Yard Types

Required buffer yards shall be installed according to the following standards:

Table 04-19: Required Buffer Yard Types

Buffer Yard Treatment	Buffer Type		
	Type 1	Type 2	Type 3
Minimum width [1]	10 feet	15 feet	20 feet
Deciduous trees	1 tree every 20 linear feet	1 tree every 20 linear feet	1 tree every 20 linear feet
Evergreen trees	1 tree every 20 linear feet	2 trees every 20 linear feet	3 trees every 20 linear feet
Small or medium trees	2 trees every 20 linear feet	3 trees every 20 linear feet	5 trees every 20 linear feet
Other	No requirement	No requirement	If site constraints hinder the density required, one of the options below may be used: A 6-foot opaque fence; or A stone/brick wall; or A 5-foot tall undulating berm planted with shrubs

Notes:

[1] The buffer yard setback is measured from the property line along the boundary between the subject and adjoining properties.

(4) Buffer Yard Requirements

Buffer yards shall be required by the developing use pursuant to Error! Reference source not found..

Table 04-20: Required Buffer Yards

Developing Site Property Zoning District	Adjacent Zoning District							
	R1/R2/R3/R4	RMH	RM/RH	MS	MN	MD	MM/MC	ME/MI/MH/EM
RMH	2							
RM/RH	1	1						
MS	2	2						
MN	1	1						
MD	1	1						
MM/MC	2	2	2	2	2	1		
ME/MI/MH/EM	3	3	2	2	2	1	1	

Notes:

[1] The uses Dwelling, single-family (attached); Dwelling, single-family (detached); Dwelling, duplex; Dwelling, triplex; and Dwelling, fourplex do not have to provide a buffer yard, even if on the 'Developing Site'.

(h) Parking Lot Landscaping**(1) Parking Lot Perimeter Treatment**

Parking lots shall be screened from streets and adjacent uses using a combination of plant materials, decorative fences, decorative walls, and/or earthen berms. Parking lots with four or more spaces shall have the following perimeter treatment:

(A) Minimum Landscape Width**i. Generally**

A landscape area a minimum of eight feet in width shall be provided along all parking lot perimeter areas abutting another property or a public right-of-way. This standard does not apply to those portions of a development site where shared parking, access, or other site features adjoin at the property line.

ii. MD Zone District

A minimum of one of the following perimeter landscape treatments shall be applied in the MD zoning district:

1. A landscape area a minimum of five feet in width shall be provided along all surface parking lot perimeter areas abutting another property or a public right-of-way. This standard does not apply to those portions of a development site where shared parking, access, or other site features adjoin at the property line; or
2. A decorative wall shall be installed along the perimeter of the parking area except for parking spaces where vehicles back out into the public right-of-way. Decorative walls shall be a minimum of 30 inches and a maximum of 42 inches in height and may incorporate breaks to allow for pedestrian movement.

(B) Trees**i. Number**

Parking lot perimeter areas shall contain a minimum of one tree per four parking spaces.

ii. **Type**

A minimum of 75 percent of the required trees shall be large, canopy trees.

iii. **Location**

Trees shall be planted within 10 feet of the parking lot edge.

(C) **Shrubs**

i. **Number**

Parking lot perimeter areas shall contain a minimum of three shrubs per one parking space.

ii. **Location**

Shrubs shall be planted within five feet of the parking lot edge. In situations where there is a sidewalk immediately adjacent to a parking area, the required shrubs must be within 5' of the edge of the sidewalk.

iii. **Height**

Shrubs planted in parking lot perimeter areas shall be selected from species that grow to a minimum height of four feet.

(2) **Landscape Bumpouts, Islands, and Endcaps**

(A) **Number**

Parking lots with 12 or more parking spaces shall provide one landscape bumpout, island, or endcap per every 10 parking spaces.

(B) **Minimum Area**

The width and length of each required landscape bumpout, island, or endcap shall be equal to the width and length of the adjacent parking space.

(C) **Minimum Planting**

Each landscape bumpout, island, or endcap shall contain at least one large canopy tree and four shrubs or native grasses. Where a bumpout, island, or endcap area is equal to the width and length of two parking spaces, a minimum of two large canopy trees and eight shrubs or native grasses shall be provided. Required trees within bumpouts, islands, or endcaps do not count toward required street tree totals, required parking lot perimeter area tree totals, or required interior plantings tree totals.

(D) **Stormwater Filtration**

Parking lot bumpouts, islands, or endcaps shall be installed ~~lower than the parking surface to allow stormwater run-off to enter the bumpout, island, or endcap for natural treatment and filtration. Any parking areas with curbing shall incorporate gaps to allow stormwater to enter the bumpout, island, or endcap in order to meet Title 13 (Stormwater) of the Bloomington Municipal Code.~~

(E) **Placement**

Landscape bumpouts, islands, or endcaps shall be installed to control vehicular circulation and define major drives. Such islands shall be placed at intervals of no more than 10 consecutive spaces.

(i) Multifamily Development Landscaping

(1) Interior Plantings

The minimum landscape area on a site not covered by a structure, parking lot, accessway, required buffer yard, or other pervious surface as established in Section 20.04.020 (Dimensional Standards) shall be planted with the following:

- (A) A minimum of 14 large canopy trees, five evergreen trees, and five medium or small canopy trees per acre.
- (B) A minimum of 36 shrubs per acre. One ornamental tree may be substituted for every four shrubs; however, substitution shall not exceed 50 percent of the required shrubs.
- (C) Shrubs and ornamental trees along foundation walls of structures shall be planted no closer than two feet and eight feet respectively from the foundation wall.

(2) Parking Lot Landscaping

See Section 20.04.080(h).

(j) MD District Landscaping

(1) Interior Plantings

Any areas of a site not covered by a structure, parking lot, or required buffer yard shall be planted with the following:

- (A) A minimum of one canopy tree per 500 square feet. Open areas less than 10 feet in width may substitute ornamental trees for required canopy trees.
- (B) A minimum of eight shrubs per 500 square feet. One ornamental tree may be substituted for every four shrubs; however, substitution shall not exceed 50 percent of the required shrubs.
- (C) Shrubs and ornamental trees along foundation walls of structures shall be planted no closer than two feet and eight feet respectively from the foundation wall.

(2) Parking Lot Perimeter Plantings

See Section 20.04.080(h)(1).

(3) Parking Lot Landscape Bumpouts, Islands, and Endcaps

See Section 20.04.080(h)(2).

(k) Mixed-Use and Nonresidential Landscaping

(1) Interior Plantings

The minimum landscape area on a site, as established in Section 20.04.020 (Dimensional Standards) or areas not covered by an impervious surface or required buffer yard shall be planted with the following:

- (A) A minimum of nine large canopy trees, three evergreen trees, and three medium or small canopy trees per acre. A minimum of 75 percent of the required trees shall be canopy trees.
- (B) A minimum of 27 shrubs per acre. One ornamental tree may be substituted for every four shrubs; however, substitution shall not exceed 50 percent of the required shrubs.

- (C) Shrubs and ornamental trees along foundation walls of structures shall be planted no closer than two feet and eight feet respectively from the foundation wall.

(2) Parking Lot Perimeter Plantings

See Section 20.04.080(h)(1).

(l) Vacant Lot Landscaping

(1) Applicability

Except for lots where the primary land use is urban agriculture, vacant lots with frontage on a public street shall be subject to the requirements of this Section 20.04.080(l).

(2) Timing

Landscaping or ground cover shall be installed as required in Section 20.04.080(l)(3) on the lot where demolition activity has occurred within 180 days after the issuance of a demolition permit, unless:

- (A) The City Planning and Transportation Department has granted an extension of time due to the need for more time to complete demolition activities or due to the presence of seasonal or inclement weather; or
- (B) A site plan has been approved for the reuse of the property. If an approved site plan has expired and has not been renewed, landscaping as outlined in Section 20.04.080(l)(3) shall be installed within 180 days after site plan expiration.

(3) Planting Requirements

- (A) For lots of one-half acre or less, the entire lot containing the demolition activity shall be covered with grass or other suitable ground cover. No ground cover is required in locations where existing vegetation, remaining structures, or parking areas serving such remaining structures still exist.
- (B) For lots greater than one-half acre, one of the following landscaping options must be selected:
 - i. The entire area disturbed for demolition shall be covered with grass or other suitable ground cover; or
 - ii. A 10-foot wide planting area shall be installed along the property line bordering the entire area disturbed for demolition from any public street. This planting area may either utilize raised planters or be level with street grade. Evergreen shrubs that grow to a minimum height of at least four feet shall be planted every three feet within these planting areas.

(m) Screening

(1) Roof-Mounted Mechanical Equipment

- (A) Roof-mounted mechanical equipment shall be screened by a parapet wall or similar feature that is an integral part of the building's architectural design.
- (B) The parapet wall or similar feature shall be sufficient to screen the mechanical equipment from all sides when viewed from ground-level.
- (C) Facilities for the operation of active or passive solar energy systems and other alternate energy systems shall be exempt from the screening requirements.

(2) Ground-Mounted Mechanical Equipment

The following standards shall apply to all uses except for single-family, duplex, triplex, fourplex, mobile home, and manufactured home residential uses.

- (A) Outdoor ground-mounted mechanical equipment which relates to power supply, watering, heating, ventilating, and similar purposes (including, but not limited to subpanels, transformers, air conditioners, heating, cooling and ventilating equipment, kitchen hoods and vents, swimming pool equipment, pumps and heaters, propane tanks), and all other mechanical equipment shall be located where it is not visible from public open space, public trails, public streets, or from adjacent properties to the maximum extent practicable.
- (B) In cases when ground-mounted mechanical equipment outside of the right-of-way is visible from a public open space, public trail, public street, or adjacent property, the equipment shall be screened from view by a solid wall or fence or a vegetative screen that satisfy the following criteria, except that ground-mounted equipment within 10 feet of an improved platted alley does not require screening:
 - i. The wall or fence shall be of a height equal to or greater than the height of the mechanical equipment being screened and shall be compatible with the architecture and landscaping of the development; or
 - ii. The vegetative screen shall be planted along the full length of the equipment to be screened and shall be of a height equal to or greater than the height of the equipment to be screened at the time of planting.
 - iii. If a piece of ground mounted equipment can not be screened from view, then options for public art shall be explored for the equipment with the City Economic and Sustainable Development Department. If art can be installed, it shall be.
- (C) Screening of ground-mounted solar energy equipment is not required.

(3) Loading, Service, and Refuse Areas

- (A) Outdoor loading, service, and refuse areas shall be integrated into the building design if possible or shall be located where they are not visible from public open space, public trails, public streets, or from adjacent properties, to the maximum extent practicable.
- (B) Refuse areas shall not be located within the front setback and shall be a minimum of five feet from side and rear property lines, except for:
 - i. Side and rear locations adjacent to alleyways;
 - ii. Side and rear locations adjacent to the R1, R2, R3, and R4 zoning districts shall have a minimum 25-foot setback from the respective property lines.
- (C) In cases when loading, service, and refuse areas are visible from a public open space, public trail, public street, or adjacent property, the loading, service, and refuse areas shall be screened from view by:
 - i. A solid wall or fence a minimum of six feet in height, or high enough to ensure that the contents of the enclosure are not visible from adjacent parcels or public rights-of-way. Such enclosures shall match the general design and materials of the primary structure (but excluding unfinished CMU block). At least one side of such fence or wall shall incorporate a movable gate for access.

- ii. The use of chain-link fencing for loading, service, or refuse area screening, including the access gate, shall be prohibited.

(4) Design

- (A) Outdoor trash receptacles, dumpsters, compactors and similar containers shall be placed on an impervious surface.
- (B) Screened outdoor storage facilities shall be adequately protected from damage by vehicles through the installation of bollards and shall be properly maintained and kept in good repair at all times.

(n) Fences and Walls

(1) Applicability

Unless otherwise provided below, this Section 20.04.080(n) shall apply to all new development.

- (A) Fences and walls used to screen trash receptacles, mechanical equipment, and other areas requiring screening are exempt from the height limits in Section 20.04.080(n)(3); however they shall not be less than six feet in height.
- (B) Utility substation and transmission facilities, quarry and stone processing, jails, detention facilities, kennels, and prisons are exempt from Section 20.04.080(n)(3).
- (C) Retaining walls are exempt from the height standards but shall be constructed in accordance with manufacturer's specifications or generally accepted engineering standards.
- (D) Fences and walls used to screen swimming pools shall not be less than five feet in height or greater than eight feet in height.
- (E) Fences and walls located in the PO and MI zoning districts are exempt from height standards.
- (F) Decorative features of fences such as post tops are exempt from height requirements provided, they extend no more than 12 inches from the top of the fence and are spaced at least eight feet apart.
- (G) Fences intended exclusively to protect food garden plots from animals shall not be more than 12 feet in height. The portion of the fence that exceeds five feet in height shall, by the use of voids and solids via latticework or other similar techniques, be of open construction. This portion of the fence shall be constructed of materials widely accepted in the fence industry for garden protection.

(2) Fence and Wall Location

- (A) Fences and walls shall be permitted up to the property line.
- (B) No fence or wall shall be located within a public or private easement unless written permission from the easement holder has been granted.

(3) Fence and Wall Height

(A) Interior Lots

- i. Behind the front building wall of the primary structure, fences and walls shall not exceed a combined height of eight feet, except as provided in Subsection (1)(G) above.
- ii. Forward of the front building wall of the primary structure, fences and walls shall not exceed four feet in height.

(B) Corner Lots

On corner lots where the structure has two front building walls, one frontage shall be considered a secondary front building wall.

- i. Fences and walls along the front setback of the front building wall shall comply with Section 20.04.080(n)(3)(A).
- ii. Fences and walls along the lot frontage of the secondary front building wall, shall not exceed four feet forward of the build to line or the building setback line, whichever applies.
- iii. Behind the build to line or front building setback line, on the secondary front building wall, fences and walls shall not exceed eight feet in height, except as provided in Subsection (1)(G) above.
- iv. The portion of fences up to and between the build to line/building setback line and the secondary front building wall that exceed five feet in height, shall, by use of voids and solids via latticework or other similar techniques, be of open construction. This portion of the fence shall be constructed of materials widely accepted in the fence industry for permanent open-topped fencing.
- v. Any determinations as to the secondary front building wall shall be decided by the City Planning and Transportation Department.

(C) Through Lots

On through lots where the structure has two front building walls, one frontage shall be considered a secondary front building wall.

- i. Fences and walls along the front setback of the front building wall shall comply with Section 20.04.080(n)(3)(A).
- ii. Fences and walls greater than four feet in height, along the lot frontage of the secondary front building wall, when adjacent to a local street or secondary collector street, shall meet the building setback.
- iii. Fences and walls greater than four feet in height, along the lot frontage of the secondary front building wall, when adjacent to a primary collector street or arterial street, shall be set back at least 10 feet from the property line.
- iv. The portion of fences up to and between the build to line/building setback line and the secondary front building wall that exceed five feet in height, shall, by use of voids and solids via latticework or other similar techniques, be of open construction. This portion of the fence shall be constructed of materials widely accepted in the fence industry for permanent open-topped fencing.
- v. Where no primary structure exists on the parcel, fences and walls shall not exceed four feet in height, except as provided in Subsection (1)(G) above.

(4) Fence and Wall Design**(A) Prohibitions**

Except in the EM zoning district, the following shall be prohibited from use as a component of a fence or wall:

- i. Barbed wire;
- ii. Security wire;

- iii. Sharpened top spikes;
- iv. Electrified wires; and
- v. Other similar elements or materials.

(B) Orientation

Fences and walls shall present the nonstructural face outward towards adjacent parcels and any adjacent public right-of-way.

(C) Vision Clearance

Fences and walls shall meet all vision clearance standards in Section 20.04.050(c)(5) (Vision Clearance Triangle).

20.04.090 Outdoor Lighting

(a) Purpose

The lighting standards are intended to encourage lighting practices and systems that conserve energy and resources; minimize light pollution, glare, and light trespass while maintaining nighttime safety, security, and enjoyment of property; and curtail the degradation of the nighttime visual environment; and to minimize disturbance to sensitive plants and animals.

(b) Applicability

Compliance with this Section 20.04.090 (Outdoor Lighting) shall be required pursuant to Section 20.04.010 (Applicability) and the specific applicability criteria established below:

(1) Change in Use

If there is any change in use of the property, the provisions of this Section 20.04.090 shall apply when the new use commences. Changes in use within multi-tenant centers shall not require the individual tenant or the entire center to comply with the provisions of this section.

(2) Modification, Replacement, or Addition of Outdoor Lighting

Modification, replacement or addition of outdoor lighting fixtures constituting 25 percent or more of the permitted lumens for the parcel, no matter the actual amount of lighting already on a site, shall trigger compliance for the entire site.

(3) Exemptions

(A) Temporary Carnivals and Festivals

Lighting for temporary festivals and carnivals are exempt but shall be turned off within 30 minutes of the last event.

(B) Emergency Lighting

Emergency lighting, used by police, fire fighting, or medical personnel, or at their direction, is exempt from all requirements of this Section 20.04.090.

(C) Traffic Control Lighting

Traffic control lighting is exempt from the provisions of this Section 20.04.090.

(D) Lighted Flags

Up to three flagpoles and flags are exempt from the provisions of this Section 20.04.090. All other outdoor lighted flags shall conform to the provisions of this Section.

(E) Holiday Lighting

Holiday lighting and seasonal decorations using typical unshielded low-intensity incandescent lamps are exempt from the provisions of this section.

(F) Low-intensity Lighting

- i. No shielding is required for a light fixture with a bulb rated at 260 lumens or less.
- ii. Full shielding is not required for a light fixture with a bulb rated at more than 260 lumens and less than 1,000 lumens when the bulbs are installed inside frosted glass or other translucent covers and shielded on top.
- iii. The total lumens of bulbs specified in subsections 20.04.090(b)(3)(F)i and 20.04.090(b)(3)(F)ii above, when not motion detector activated, shall not exceed 2,000 lumens per building, or 1,000 lumens per exterior entryway, whichever is less.

(G) Swimming Pool and Fountain Lighting

Underwater lighting used for the illumination of swimming pools and fountains is exempt from the lamp type and shielding standards, though it shall conform to all other provisions of this section.

(c) General Standards

(1) Conformance with Applicable Codes

All outdoor illuminating devices shall be installed in conformance with the provisions of this UDO and all applicable building and electrical codes.

(2) Initial Lumens

For the purposes of this chapter "lumens" means "initial lumens." The acceptability and shielding restrictions applicable to a particular lamp are decided by its initial lumen output, not wattage; check manufacturer's specifications.

(3) Prohibitions**(A) Laser Source Light**

The use of laser, strobe, and/or flashing source light or any similar high intensity light for outdoor advertising or entertainment is prohibited.

(B) Searchlights

The operation of searchlights is prohibited except when used by civil authorities for purposes of public safety.

(C) Towers

Tower lighting shall not be permitted unless required by the Federal Aviation Administration (FAA).

(4) Light Trespass

- (A) All lighting fixtures shall be installed so that light trespass from any property line, except a property line abutting a public street, shall not exceed one footcandle at a point one meter beyond the property line. Properties bordered by R1, R2, R3, R4, or RMH are allowed no more than 0.5 footcandles at a point one meter beyond the property line adjacent to those districts.
- (B) Measurements of light readings along any portion of a property line of the subject property shall be taken with a light meter facing the light source at a height of five feet, using any orientation of the light meter. The maximum reading shall be used.

(5) Glare

All lighting fixtures shall be installed so as not to cause glare at or beyond the property line and shall not be aimed toward traffic.

(A) Shielding

- i. All lighting fixtures, except motion detector-activated lighting, shall be fully shielded so that the lighting element is not visible to an observer at any property line, except as stated otherwise in this Section 20.04.090.
- ii. Unless otherwise specified, all lighting fixtures shall be full cutoff type as installed.
- iii. A lighting fixture may beam light upward only if all upward light is reflected back down by a canopy, roof, or other such structure.
- iv. Full shielding is not required for motion detector activated lighting of less than 1,800 lumens, provided the light cycles off no more than 10 minutes after coming on.



Figure 52: Exterior Light Shielding

(B) Floodlights and Spotlights

- i. Floodlights and spotlights shall be fully shielded so that the light element is not visible to an observer on any property either zoned or used for residential purposes and is not visible to an observer on any public right-of-way.

- ii. The centerline beam of a floodlight or spotlight shall be aimed no higher than 45 degrees above vertical; however, light fixtures that cast illumination over more than 90 degrees shall be aimed such that no light shall be cast above the horizontal.

(6) Landscape Lighting

- (A) When planting materials are lighted, high-pressure sodium lamps and low-intensity incandescent lamps shall not be used.
- (B) Lighting of any tree protection area or conservation easement, including but not limited to those required by Section 20.04.030 (Environment), is prohibited.

(d) Multifamily Residential Lighting

A parcel occupied by a multifamily dwelling shall not be illuminated by more than 6,000 lumens per primary structure, including a maximum of 2,000 lumens per building entryway of any combination of motion detector activated lighting and bulbs rated at no more than 1,000 lumens.

(e) Mixed-Use and Nonresidential Lighting

(1) Adjacent to Residential Districts

Mixed-use and nonresidential uses bordered by any R1, R2, R3, R4, or RMH zoning district shall be allowed a total light output of not more than 40,000 lumens per acre. Provided, regardless of parcel size, the allowance shall be sufficient to provide a maximum of 2,500 lumens per entryway with motion detector activated lighting counted as one-half lumens.

(2) Use-Specific Conditions

(A) Canopies, Pavilions, or Drive-Through Bays

i. Illuminance

The canopy, pavilion, or drive-through bay shall be designed to achieve no greater than the minimal illuminance level of a service station pump island as recommended by the Illuminating Engineering Society of North America (IESNA RP-33: Lighting for Exterior Environments).

ii. Shielding

All light fixtures mounted on or recessed into the lower surface of canopies, pavilions, or drive-through bays shall be full cutoff, fully shielded and use flat lenses. Such fixtures shall be recessed so the fixture does not extend below the lower horizontal surface of the canopy, pavilion, or drive-through bay.

(B) Outdoor Recreational Facilities

i. Illuminance

All lighting installations shall be designed to achieve no greater than the minimal illuminance levels for the activity as recommended by the Illuminating Engineering Society of North America (IESNA RP-6: Sports and Recreational Area Lighting).

ii. Light Trespass

All lighting fixtures shall be installed so that light trespass from any property line, except a property line abutting a public street, shall not exceed two footcandles at a point one meter beyond the property line.

iii. Restriction

Field lighting for all outdoor recreational facilities shall be turned off within 30 minutes after the completion of the last event of the night.

(C) Parking Lots and Outdoor Display Lots or Areas**i. Illuminance**

The parking lot shall be designed to achieve no greater than the minimal illuminance levels for the given land use as recommended by the Illuminating Engineering Society of North America (IESNA RP-33: Lighting for Exterior Environments). However, a parking lot shall also be designed to achieve a minimum illuminance level of one lux.

ii. Curfew

Lighting for outdoor display lots and parking lots with more than 20 parking spaces shall be reduced by half no later than 11 p.m., or within 30 minutes after closing of the business, whichever is later.

20.04.100 Signs

(a) Purpose

The intent of these sign standards is to:

- (1) Accomplish the goals of the Comprehensive Plan;
- (2) Avoid unnecessary proliferation of signs;
- (3) Provide developments with appropriate identification;
- (4) Create a consistent streetscape;
- (5) Maintain and enhance the aesthetic environment of the city and its City;
- (6) Eliminate potential hazards to motorists and pedestrians resulting from sign clutter; and
- (7) Promote the health, safety, and welfare of the residents of the City of Bloomington.
- (8) No part of these standards shall in any way be interpreted to infringe upon those rights guaranteed by the First Amendment to the United States Constitution or Article 1, Section 9 of the Indiana Constitution.

(b) Applicability

No sign or advertising device shall be established, altered, changed, erected, constructed, reconstructed, moved, divided, enlarged, demolished or maintained except in compliance with this Section 20.04.100.

(c) Permit Requirements

(1) Generally

A sign permit shall be required for all signs located, erected, constructed, reconstructed, moved, or altered unless specifically exempted by this Section 20.04.100.

(2) Signs not Requiring a Permit

The following signs are exempt from the requirement to obtain a sign permit, unless specifically required by another subsection of this Section 20.04.100.

(A) Public Signs

Any signs erected, or required to be erected, by a unit of local, state, or federal government. City of Bloomington public signs are exempt from signage regulations.

(B) Small Signs

Any sign of not more than one and one-half square feet in area. Such signs are exempt from signage regulations except 20.04.100(f).

(C) Temporary Signs

- i. In all zoning districts, each property is allowed to have two signs, neither of which shall exceed five square feet in area, and one additional sign that shall not exceed eight square feet in area.
- ii. In nonresidential and mixed-use zoning districts, each vacant property, or property that is under construction, is allowed to have one sign that shall not exceed 32 square feet in area.

- iii. In all nonresidential and mixed-use zoning districts, each vacant tenant space, or tenant space that is under construction, is allowed to have one sign that shall not exceed 32 square feet in area that shall be attached to the wall of the vacant space.

(D) Murals

Murals are exempt from the requirement to obtain a sign permit.

(E) Window Signs

Window signs shall not exceed 25 percent of the glass area of any individual window or glass door frame and shall not count towards the wall sign allowance of the use or property.

(F) Sandwich Board Signs

Sandwich board signs shall comply with the standards of this Section.

(d) Sign Measurements

Sign height and sign area measurements shall be calculated as follows:

(1) Wall Signs

The area of wall signs shall be calculated as the smallest regular geometric figure needed to circumscribe any images, text, or other identifying trait placed on a structure.

(2) Freestanding Signs

(A) The area of freestanding signs shall be calculated as the smallest regular geometric figure needed to circumscribe the sign, exclusive of supporting structures.

(B) The height of a freestanding sign shall be measured from the grade beneath the sign or from the crown of the adjacent street, whichever is higher. The ground beneath a sign shall not be raised to artificially change the point at which the sign height is measured.

(3) Double-faced Signs

For all freestanding, projecting, or temporary signs permitted by this chapter, a double-faced sign may be erected. Only the face area of one of the two sides shall be considered the face area of the entire sign. In such cases, the two sign faces shall be identical in area, shall be placed back to back, and shall be separated by a distance of no more than two feet.

(e) Prohibited Sign Types

The following signs are prohibited in all zoning districts unless specifically authorized by another provision of this Section 20.04.100:

(1) Animated Signs

Signs that use any motion picture, laser, or visual projection of images or text.

(2) Bench Signs

A sign located on the seat or back of a bench placed on or adjacent to a public right-of-way.

(3) Imitation of Public Signs

Signs that purport to be, are in imitation of, or resemble a public sign as described by the Manual on Uniform Traffic Control Devices. Examples include but are not limited to stop signs, yield signs, or pedestrian crossing signs.

(4) Off-premise Signs

Signs advertising goods, products, services, events or activities not located, sold or offered on the premises or tenant space on which the sign is located, except for signs as provided in Section 20.04.100(c)(2)(B), Section 20.04.100(c)(2)(C), Section 20.04.100(k)(9), and Section 20.04.100(l)(7).

(5) Vehicle Signs

Vehicles, vans, trailers or trucks that are parked continuously in the same general location to be used to display signs. This does not prohibit vehicle or trailer owners from having vehicles or trailers with signs, provided the vehicles or trailers are in use on a regular basis, are not continuously parked in one parking lot or parking space, and are not being used to serve in the same manner as an additional freestanding sign or temporary sign.

(6) Intermittent Lights

Signs that have intermittent blinking, flashing, or fluttering lights, including any device that has a changing light intensity, brightness of color, or gives such illusion, including but not limited to strobe lights.

(7) Pole Signs

Signs that are mounted on a freestanding pole or other support that is not part of or attached to a building or structure.

(8) Temporary Signs

Any temporary sign not specifically permitted in Section 20.04.100(i)(9), Section 20.04.100(j)(8), Section 20.04.100(k)(6), and Section 20.04.100(l)(6) or specifically exempted in Section 20.04.100(c)(2)(C), including but not limited to pennants, streamers, balloons, inflatable signs, spinners, and feather flags.

(9) Projecting Signs

Any sign that projects outward more than 12 inches from the facade of a building in, except as provided in Section 20.04.100(l).

(10) Electronic Reader Board Signs

Any electronic reader board sign not specifically permitted in Section 20.04.100(g)(3).

(f) Prohibited Sign Locations

Signs shall not be installed at any of the following locations:

(1) Public Easement

In any public easement, unless the sign is a public sign authorized by Section 20.04.100(c)(2)(A), or is further authorized by the city.

(2) Public Right-of-Way

In any public right-of-way, unless the sign is authorized by Section 20.04.100(k)(9), or the sign is authorized by Section 20.04.100(l)(3), or the sign is authorized by Section 20.04.100(l)(7), or the sign is a public sign authorized by Section 20.04.100(c)(2)(A) and is further authorized by the city;

(3) Roofs

On the roof of a structure, or extending above the eave, roof line or parapet of a building, except that signs may be located on the vertical portion of a mansard roof if no vertical wall space is available on the wall space associated with that tenancy or occupancy below.

(4) Vision Clearance Triangle

Within a vision clearance triangle as specified in Section 20.04.050(c)(4) (Vision Clearance Triangle).

(5) Miscellaneous

On any traffic control signs, highway construction signs, fences, railings, utility poles, street signs, trees or other natural objects.

(g) General Design Standards

Unless otherwise stated in this UDO, the following standards apply to all signs.

(1) Freestanding Signs

All freestanding signs shall comply with the following standards:

(A) Setback

All freestanding signs shall be set back a minimum of two feet from the proposed right-of-way line or outside of the required clear zone of a public sidewalk, whichever is greater, unless specifically approved by the City's Transportation and Traffic Engineer.

(B) Mounting

All freestanding signs shall be permanently affixed to the ground.

(C) Base

Sign bases shall conform to the following standards:

- i. Sign bases shall have an aggregate width of at least 40 percent of the total horizontal width of the sign; or have supports that are less than 25 percent of the vertical height of the sign.
- ii. The base and exposed foundation of all freestanding signs shall be covered with a finished material such as brick, stone, metal, or wood.

(D) Cap

A decorative cap may extend up to 18 inches above the height limit specified in this Section 20.04.100. The decorative cap shall have no identifying text, images, or identifying traits.

(E) Landscaping

- i. For any new freestanding sign, a landscaped area located around the entire base of a freestanding sign is required.
- ii. The landscaped area shall contain materials consisting of shrubs, spread no greater than three feet on center, and densely planted perennial ground cover.
- iii. The landscaped area shall be greater than or equal to the freestanding sign face area.

(F) Illumination

Sign lighting shall comply with the light trespass regulations in Section 20.04.090 (Outdoor Lighting) and also may not exceed one foot candle at a distance of 6' from the sign face.

(2) Changeable Copy

Unless specified otherwise in this UDO, signs may incorporate areas for changeable copy, provided that any combination of the changeable copy area and any electronic reader board component area combined does not exceed 40 percent of the total sign area.

(3) Electronic Reader Boards

Unless otherwise provided in this UDO, electronic reader boards may only be utilized when incorporated into permanent signage, subject to the following:

(A) The electronic reader board portion may not exceed 30 square feet or 40 percent of the total area of any sign face (whichever is less).

(B) Any combination of the electronic reader board area and any changeable copy area combined does not exceed more than 40 percent of the total area of any sign face, and that information is displayed in increments of no less than 20 seconds.

(4) Wall Signs

Wall signs shall be located on any exterior portion of the building that is occupied by the use or portion of a building that is occupied by the use if the building has multiple uses.

(h) Waiver of Right to Damages

- (1) The Plan Commission, the Board of Zoning Appeals, and the City Planning and Transportation Department are each authorized to request waivers of the right to and receipt of damages pursuant to Indiana Code 22-13-2-1.5, Indiana Code 36-7-2-5.5, and Indiana Code 32-24, in connection with any petition for a permit or other approval that may involve erection of a new sign or removal or alteration of a lawfully erected sign, including a lawful nonconforming sign.
- (2) Waivers may be requested from the following:
 - (A) The petitioner;
 - (B) The property owner;
 - (C) The sign owner; and
 - (D) Any other person with an interest in the site or the sign.
- (3) The owner and/or the petitioner shall be responsible for obtaining waivers from all persons listed in Section 20.04.100(h)(2).

(i) Residential District Sign Standards

(1) Applicability

This section applies to the R1, R2, R3, R4, RM, RH, and RMH zoning districts.

(2) Single-Family and Condominium Subdivision

Each subdivision shall be permitted one freestanding sign per development entrance, subject to the following standards:

(A) Freestanding Sign Area

The maximum sign area shall not exceed 32 square feet per side.

(B) Freestanding Sign Height

The maximum height shall not exceed six feet in height.

(C) Changeable Copy

Changeable copy shall be prohibited as part of a freestanding sign.

(D) Number

The permitted subdivision sign may be replaced with two signs of a maximum 16 square feet in area per sign if a sign is placed on each side of the entrance.

(E) Wall Signage

No wall signage is permitted.

(3) Multifamily

(A) Multifamily developments containing between three and 14 dwelling units shall be permitted one wall sign not to exceed 24 square feet per development.

(B) Multifamily developments containing at least 15 dwelling units shall be permitted:

- i. One freestanding sign per development vehicle entrance, not to exceed 32 square feet per side in maximum sign area and not to exceed six feet in height; and
- ii. One wall sign per building not to exceed 24 square feet each.

(4) Conforming Nonresidential Uses

For any nonresidential use approved as a permitted use or conditional use, the provisions of Section 20.04.100(k) shall apply. These provisions may be modified by action of the Board of Zoning Appeals as part of a conditional use approval.

(5) Legal Nonconforming Multifamily Residential Uses

Legal nonconforming multifamily residential uses in single family zoning districts with at least three units shall be permitted wall signage not to exceed 10 square feet in area but shall not be permitted any freestanding signs. This subsection supersedes Section 20.04.100(i)(3)(A).

(6) Legal Nonconforming Nonresidential Uses

Legal nonconforming nonresidential uses shall be permitted:

- (A) Wall signage not to exceed 10 square feet in area and:
- (B) On lots with less than 30 feet of street frontage, no freestanding signs; and
- (C) On lots with 30 feet or more of street frontage, one freestanding sign not to exceed 12 square feet in maximum area per side, and not to exceed four feet in height.

(7) Illumination

Signs within residential districts shall not be internally illuminated nor contain an electronic reader board.

(8) Window Signs

Window signs are not permitted for residential uses.

(9) Temporary Signs

In addition to the temporary signs exempted under Section 20.04.100(c)(2)(C), conforming nonresidential uses and multifamily structures with at least 15 dwelling units are permitted to display temporary signage provided that the temporary signs comply with the following standards:

- (A) All temporary signs shall receive a sign permit from the City Planning and Transportation Department before being displayed;
- (B) A maximum of three temporary signs per display period described below are permitted;

- (C) Temporary sign types shall be limited to freestanding portable signs or materials not prohibited in 20.04.100(e)(8);
- (D) Temporary signs shall not exceed 16 square feet in area per side;
- (E) Freestanding temporary signs shall not exceed six feet in height; and
- (F) External illumination of temporary signs is prohibited.
- (G) Display of temporary signs shall be permitted for a maximum of three periods of up to 30 days per period, per calendar year. These permitted periods may be combined into one or two periods per year provided that the total display period does not exceed 90 days.

(j) MS, MM, MC, ME, MI, MH, EM, and PO District Sign Standards

(1) Applicability

This sign standards section applies to the MS, MM, MC, ME, MI, MH, EM, and PO zoning districts.

(2) Wall Signs

The following standards shall apply to wall signs for individual uses or tenants within a multi-tenant center:

(A) Allowance

i. Individual Nonresidential Uses

The cumulative square footage of all wall signs shall not exceed one and one-half square feet per lineal foot of primary facade facing a public or private street.

ii. Multi-tenant Center

The cumulative square footage of all wall signs for any individual tenant shall not exceed one and one-half square feet per lineal foot of the tenant's facade width facing either a public or private street or facing a parking area if no street frontage is adjacent. For purposes of this Section 20.04.100(j), only one facade of the building may be used to measure the sign allowance, with the exception of corner locations in multi-tenant buildings, which shall be permitted to use the side facade as additional facade width.

iii. Size Limits

No use shall be limited to less than 30 square feet of wall signage. Uses with less than 200,000 square feet of building area shall not be permitted to exceed 300 square feet of wall signage. Uses with 200,000 square feet or more of building area shall not be permitted to exceed 400 square feet of wall signage.

(B) Maximum Projection

Except an awning sign, no part of a wall sign shall project more than 12 inches from the wall or face of the building to which it is attached.

(C) Location

Wall signs for individual tenants within a multi-tenant nonresidential center shall be located on a wall of the tenant's lease space.

(D) Multi-tenant Nonresidential Centers

In addition to other wall signs permitted in this Section 20.04.100(j)(2), multi-tenant nonresidential centers shall be permitted a single wall sign not exceeding 20 square feet in area.

(3) Projecting Signs

A 5 square foot projecting sign is allowed on a tenant's lease space. Projecting signs shall count toward wall signage allotment.

(4) Freestanding Signs

The following standards shall apply to all freestanding signs:

(A) Number

- i. Freestanding signs shall not be permitted on lots with 30 feet or less of public street frontage.
- ii. Lots with greater than 30 feet and less than 500 feet of frontage on a public street are permitted one freestanding sign.
- iii. Lots with 500 feet or more of public street frontage, one freestanding sign shall be permitted for each 250 feet of public street frontage.
- iv. The number of signs allowed per street frontage shall be determined based on the length of frontage on each street. Each frontage is regulated separately, and total square footages may not be aggregated.
- v. In no case shall any lot have more than four freestanding signs.

(B) Area**i. Individual Nonresidential Uses**

1. Freestanding signs on lots with greater than 30 feet and less than 50 feet of public street frontage shall not exceed 20 square feet.
2. Freestanding signs on lots with at least 50 feet and less than 75 feet of public street frontage shall not exceed 30 square feet.
3. Freestanding signs on lots with at least 75 feet of public street frontage shall not exceed 45 square feet.
4. Where a lot has more than one public street frontage, each street frontage shall be regulated independently.

ii. Multi-tenant Nonresidential Centers

1. Freestanding signs for centers with less than 20,000 square feet of gross floor area are permitted a maximum sign area based on individual nonresidential use allowances listed in the above section 20.04.100(j)(4)(B)i).
2. Freestanding signs for centers with at least 20,000 and less than 35,000 thousand square feet of gross floor area shall not exceed 60 square feet.
3. Freestanding signs for centers with at least 35,000 and less than 50,000 square feet of gross floor area shall not exceed 75 square feet.
4. Freestanding signs for centers with at least 50,000 square feet of gross floor area shall not exceed 125 square feet.
5. Individual tenant panels shall not exceed 36 square feet.
6. Outlots that are not counted toward center square footages shall be permitted freestanding signage based on individual nonresidential uses in Section 20.04.100(j)(4)(B)i).

7. Replacement or switch-out of individual tenant panels on a multi-tenant sign shall not require compliance of the entire freestanding sign but shall require a sign permit.
8. The gross floor area calculations described in this Section 20.04.100(j)(4)(B)ii shall not include any square footage associated with a residential use.

(C) Height

- i. For individual nonresidential uses and multi-tenant centers of less than 20,000 square feet of gross floor area, the maximum freestanding sign height shall be six feet.
- ii. For multi-tenant centers with at least 20,000 square feet and less than 50,000 square feet of gross floor area, the maximum freestanding sign height shall be eight feet.
- iii. For multi-tenant centers with at least 50,000 square feet of gross floor area, the maximum sign height shall be 15 feet.
- iv. The gross floor area calculations described in this Section 20.04.100(j)(4)(C) shall not include any square footage associated with a residential use.

(D) Separation

Where a lot is permitted multiple freestanding signs, no two freestanding signs shall be within 100 feet of each other, as measured along the public right-of-way.

(E) Changeable Copy

A maximum of 80 percent of any freestanding sign may be dedicated to changeable copy.

(5) Permanent Display Cabinets

Permanent display cabinets shall be subject to the following standards:

- (A) Permanent display cabinets may incorporate interchangeable signage such as banners, flyers, posters, and menus.
- (B) Permanent display cabinets shall count toward the wall signage square footage allowance of the use.
- (C) Individual display cabinets shall not exceed 16 square feet in area per display cabinet, measured at the outer edge of the cabinet frame.
- (D) A permanent display cabinet shall not exceed eight feet in height from ground level.
- (E) The permanent display cabinet shall be framed with wood, metal, or other durable material, and enclosed with a transparent cover.

(6) Drive-Through Uses

In addition to the signs listed in this Section 20.04.100:

- (A) Structures with a drive-through shall be permitted one additional sign at the entrance to or for each area connected to a drive-through lane, provided that the sign has only one face, the maximum area of that sign face does not exceed 36 square feet, and the height of the sign does not exceed six feet. These signs shall be allowed to have 20% as electronic reader board and shall be exempt from the landscaping requirements of 20.04.100(g)(1)(E).
- (B) Structures with a drive-through shall be permitted two additional freestanding signs, with a maximum sign face area that does not exceed four square feet, and the height of the sign does not exceed four feet.

- (C) Structures with a drive-through shall be permitted one additional sign at the ordering location of each drive-through, provided that the sign(s) has only one face, the maximum area of that sign face does not exceed 12 square feet, and the height does not exceed five feet. These signs shall be allowed to have 100% as electronic reader board and shall be exempt from the landscaping requirements of 20.04.100(g)(1)(E).

(7) Multifamily Dwelling Uses

The following standards apply to multifamily dwelling uses:

- (A) Multifamily developments containing between 3 and 14 dwelling units shall be permitted one wall sign not to exceed 24 square feet per development.
- (B) Multifamily developments containing at least 15 dwelling units shall be permitted:
 - i. One freestanding sign per development vehicle entrance, not to exceed 32 square feet per side in maximum sign area and not to exceed six feet in height; and
 - ii. One wall sign per building not to exceed 24 square feet each.

(8) Temporary Signs

In addition to the temporary signs exempted under Section 20.04.100(c)(2)(C), each property is allowed to display temporary signage provided that the temporary signs comply with the following standards:

- (A) All temporary signs shall receive a sign permit from the Planning and Transportation Department prior to being displayed.
- (B) The following numbers of signs are permitted:
 - i. Individual nonresidential uses shall be permitted a maximum of three temporary signs.
 - ii. Multifamily structures with at least 15 dwelling units shall be permitted a maximum of three temporary signs.
 - iii. Individual tenants within nonresidential centers shall be permitted a maximum of one temporary sign.
- (C) Temporary sign types shall be limited to freestanding portable signs or materials not prohibited in 20.04.100(e)(8).
- (D) Temporary signs shall not exceed 16 square feet.
- (E) Freestanding temporary signs shall not exceed six feet in height.
- (F) External illumination of temporary signs is prohibited.
- (G) Display of temporary signs shall be permitted for a maximum of three periods of up to 30 days per period, per calendar year. These permitted periods may be combined into one or two periods per year provided that the total display period does not exceed 90 days.

(k) MN District Sign Standards

(1) Applicability

This sign standards section applies to the MN zoning districts.

(2) Wall Signs

The following standards apply to wall signs for individual uses or tenants within a multi-tenant center:

(A) Allowance**i. Individual Nonresidential Uses**

The cumulative square footage of all wall signs shall not exceed one square foot per lineal foot of primary structure that faces a public or private street.

ii. Multi-tenant Centers

The cumulative square footage of all wall signs for any individual use shall not exceed one square foot per lineal foot of the facade width associated with the use facing either a public or private street or facing a parking area if no street frontage is adjacent. For purposes of this section, only one facade of the building will be used to measure allowance with the exception of corner locations in multi-tenant buildings, which shall be permitted to use the side facade as additional facade width.

iii. Limits

No property shall be limited to less than 20 square feet of wall signage and no use or tenant shall be permitted to exceed 100 square feet of wall signage.

(B) Location

No wall signage shall be located on a side or rear building facade facing a residential use.

(C) Maximum Projection

No part of a wall sign, other than an awning sign, shall protrude more than 12 inches from the wall or face of the building to which it is attached.

(3) Projecting Signs

A 5 square foot projecting sign is allowed on a tenant's lease space. Projecting signs shall count toward wall signage allotment

(4) Freestanding Signs

The following standards apply to permanent freestanding signs:

- (A) Lots with 30 feet or less of public street frontage shall not be permitted any freestanding signs. Lots with more than 30 feet of public street frontage on a single street are permitted a maximum of one freestanding sign.
- (B) No freestanding sign shall exceed 15 square feet in area per side.
- (C) No freestanding sign shall exceed four feet in height.
- (D) Internally illuminated signs are prohibited.

(5) Permanent Display Cabinets

Permanent display cabinets shall be subject to the following standards:

- (A) Permanent display cabinets may incorporate interchangeable signage such as banners, flyers, posters, and menus.
- (B) Permanent display cabinets shall count toward the wall signage allowance of the use.
- (C) Individual display cabinets shall not exceed 16 square feet in area per display, measured at the outer edge of the cabinet frame.
- (D) A permanent display cabinet shall not exceed eight feet in height from ground level.

- (E) The permanent display cabinet shall be framed with wood, metal, or other durable material, and enclosed with a transparent cover.

(6) Multifamily Dwelling Uses

Multifamily developments shall be permitted one wall sign not to exceed 24 square feet.

(7) Temporary Signs

In addition to the temporary signs exempted under Section 20.04.100(c)(2)(C), each property is allowed to display temporary signage provided that the temporary signs comply with the following standards:

- (A) All temporary signs shall receive a sign permit from the Planning and Transportation Department prior to being displayed.
- (B) The following numbers of signs are permitted:
 - i. Individual nonresidential uses shall be permitted a maximum of three temporary signs.
 - ii. Multifamily structures with at least 15 dwelling units shall be permitted a maximum of three temporary signs.
 - iii. Individual tenants within nonresidential centers shall be permitted a maximum of one temporary sign.
- (C) Temporary sign types shall be limited to freestanding portable signs or materials not prohibited in 20.04.100(e)(8).
- (D) Temporary signs shall not exceed 16 square feet.
- (E) Freestanding temporary signs shall not exceed six feet in height.
- (F) External illumination of temporary signs is prohibited.
- (G) Display of temporary signs shall be permitted for up to a maximum of three periods of up to 30 days per period, per calendar year. These permitted periods may be combined into one or two periods per year provided that the total display period does not exceed 90 days.

(8) Electronic Reader Boards

Electronic reader boards are not permitted in this zoning district.

(9) Sandwich Board Signs

Properties immediately adjacent to a public sidewalk shall be permitted to place sandwich board signs in the public sidewalk provided the following criteria are met.

(A) Number

Each property shall be permitted one sandwich board sign. If a property contains more than one tenant, additional sandwich board signs shall be permitted, provided the number of sandwich boards in front of a single property shall be limited to ensure that no sandwich board sign shall be placed within eight linear feet of another sandwich board sign, measured from the base of each sign.

(B) Design

- i. Sign face area shall not exceed five square feet.
- ii. Sign face width shall not exceed two feet, nine inches measured at the widest point of the sign face.

- iii. Sign height shall not exceed four and one-half feet measured from the ground to the top of the sign.
- iv. Signs shall be truly portable and shall not be permanently affixed to any structure or sidewalk.

(C) Placement

Sandwich board signs shall meet the following placement criteria.

- i. Signs shall be placed only on sidewalks with a minimum width of seven feet.
- ii. Signs shall be removed from the public sidewalk at the end of each business day.
- iii. Signs shall be located a maximum of two feet from the building; or in the tree plot outside of the sidewalk.
- iv. Signs shall be placed a minimum of 48 inches from all obstructions within the sidewalk including newspaper boxes, outdoor tables and seating, trees and tree grates, bicycle racks, trash receptacles and any other item impeding pedestrian or wheelchair movement.
- v. Signs shall be placed a minimum of eight feet from a building corner or pedestrian crosswalk.
- vi. Sign placement shall meet all requirements of the Americans with Disabilities Act (ADA).
- vii. Signs shall not be placed within the right-of-way of the B-Line Trail. Sandwich board signs for properties with frontage along the trail shall be placed on the property between the building and the trail right-of-way.

(I) MD District Sign Standards

(1) Applicability

This sign standards section applies to the MD zoning districts.

(2) Wall Signs

The following standards apply to wall signs for individual uses and tenants within a multi-tenant center:

(A) Allowance

i. Individual Nonresidential Uses

The cumulative square footage of all wall signs shall not exceed one and one-half square feet per lineal foot of primary structure that faces a public or private street.

ii. Multi-tenant Centers

1. First Story

The cumulative square footage of all permanent wall signs for an individual use shall not exceed one and one-half square feet per lineal foot of the use's facade width facing either a public or private street or parking area if no street frontage is adjacent for locations on the first floor. For purposes of this section, only one facade of the building will be used to measure allowance with the exception of corner locations in multi-tenant buildings, which shall be permitted to use the side facade as additional facade width.

2. Upper Story Uses

- [a] Uses located above the first story shall be permitted a wall sign allowance equal to 50 percent of the total allowance permitted for first story uses as provided in Section 20.04.100(l)(2)(A)ii.1) above.
- [b] The sign shall be located on the lease space or along a wall within five feet of the lease space.

3. Additional Sign

Multi-tenant centers shall be permitted a single wall or projecting sign that does not exceed 20 square feet in area. .

iii. Multifamily

Developments containing more than two units shall be permitted wall signage that shall not cumulatively exceed 24 square feet.

iv. Limits

No property shall be limited to less than 20 square feet of wall signage and no use or tenant shall exceed 100 square feet of wall signage.

(B) Location

Wall signs for individual tenants within a multi-tenant center shall be located on the tenants lease space, except as regulated in Section 20.04.100(l)(2)(A)ii.2) above.

(C) Maximum Projection

No part of a wall sign, other than a projecting sign or awning, shall project more than 12 inches from the wall or face of the building to which it is attached.

(3) Projecting Signs

The following standards apply to projecting signs:

- (A) Any property that uses a freestanding sign shall be prohibited from using a projecting sign.
- (B) A maximum of one projecting sign is permitted per tenant per street frontage.
- (C) A minimum separation of 100 feet shall be provided between all projecting signs on the same building facade.
- (D) Projecting signs shall be limited to a maximum of 54 square feet in area.
- (E) Projecting sign areas shall count toward overall wall sign square footage allowance.
- (F) No part of a projecting sign shall protrude more than 96 inches from the wall or face of the building to which it is attached. Those support structures located between the building and the sign only shall be counted toward this allowance.
- (G) Projecting signs shall be located adjacent to the tenant's lease space and shall be installed at least seven feet above the pavement.
- (H) The petitioner for a projecting sign shall provide information verifying that the building facade containing the projecting sign can tolerate anticipated wind loading.

(4) Freestanding Signs

The following standards apply to permanent freestanding signs.

- (A) The erection of freestanding signs shall be prohibited on any property frontage immediately adjacent to the B-Line Trail right-of-way.
- (B) Lots with 30 feet or less of public street frontage are not permitted any freestanding signs. Properties with more than 30 feet of public street frontage on a single street are permitted a maximum of one freestanding sign.
- (C) Freestanding signs shall not exceed 15 square feet.
- (D) Freestanding signs shall not exceed four feet in height.
- (E) No freestanding sign shall be allowed unless the primary structure on a lot is set back from the public right-of-way by a minimum of 15 feet.
- (F) Internally illuminated signs and electronic reader boards are prohibited.
- (G) Changeable copy shall be prohibited as part of a freestanding sign.

(5) Permanent Display Cabinets

Permanent display cabinets shall be subject to the following standards:

- (A) Permanent display cabinets may incorporate interchangeable signage such as banners, flyers, posters, and menus.
- (B) Permanent display cabinets shall count toward the wall signage allowance of the use.
- (C) Individual display cabinets shall not exceed 16 square feet in area per display, measured at the outer edge of the cabinet frame.
- (D) A permanent display cabinet shall not exceed eight feet in height from ground level.
- (E) The permanent display cabinet shall be framed with wood, metal, or other durable material, and enclosed with a transparent cover.

(6) Temporary Signs

In addition to the temporary signs exempted under Section 20.04.100(c)(2)(C), each property is allowed to display temporary signage provided that the temporary signs comply with the following standards:

- (A) All temporary signs shall receive a sign permit from the Planning and Transportation Department prior to being displayed.
- (B) The following numbers of signs are permitted:
 - i. Individual nonresidential uses shall be permitted a maximum of three temporary signs.
 - ii. Multifamily structures with at least 15 dwelling units shall be permitted a maximum of three temporary signs.
 - iii. Individual tenants within nonresidential centers shall be permitted a maximum of one temporary sign.
- (C) Temporary sign types shall be limited to freestanding portable signs or materials not prohibited in 20.04.100(e)(8).
- (D) Temporary signs shall not exceed 16 square feet.
- (E) Freestanding temporary signs shall not exceed six feet in height.
- (F) External illumination of temporary signs is prohibited.

- (G) Display of temporary signs shall be permitted for up to a maximum of three periods of up to 30 days per period, per calendar year. These permitted periods may be combined into one or two periods per year provided that the total display period does not exceed 90 days.

(7) Sandwich Board Signs

Properties immediately adjacent to a public sidewalk shall be permitted to place sandwich board signs in the public sidewalk provided the following criteria are met.

(A) Number

Each property shall be permitted one sandwich board sign. If a property contains more than one tenant, additional sandwich board signs shall be permitted, provided the number of sandwich boards in front of a single property shall be limited to ensure that no sandwich board sign shall be placed within eight linear feet of another sandwich board sign, measured from the base of each sign.

(B) Design

- i. Sign face area shall not exceed five square feet per sign per face.
- ii. Sign face width shall not exceed two feet, nine inches measured at the widest point of the sign face.
- iii. Sign height shall not exceed four and one-half feet measured from the ground to the top of the sign.
- iv. Signs shall be truly portable and shall not be permanently affixed to any structure or sidewalk.

(C) Placement

Sandwich board signs shall meet the following placement criteria.

- i. Signs shall be placed only on sidewalks with a minimum width of seven feet.
- ii. Signs shall be removed from the public sidewalk at the end of each business day.
- iii. Signs shall be located a maximum of two feet from the building; or in the tree plot outside of the sidewalk.
- iv. Signs shall be placed a minimum of 48 inches from all obstructions within the sidewalk including newspaper boxes, outdoor tables and seating, trees and tree grates, bicycle racks, trash receptacles and any other item impeding pedestrian or wheelchair movement.
- v. Signs shall be placed a minimum of eight feet from a building corner or pedestrian crosswalk.
- vi. Sign placement shall meet all requirements of the ADA.
- vii. Signs shall not be placed within the right-of-way of the B-Line Trail. Sandwich board signs for properties with frontage along the trail shall be placed within the setback between the building and the trail right-of-way.

20.04.110 Incentives

(a) Applicability

These affordable housing and sustainable development incentives are available to all development, except for Student Housing or Dormitory projects located in the MD zoning district.

(b) General Standards

The following standards apply to all projects seeking the affordable housing or sustainable development incentives in this Section 20.04.110.

(1) Neighborhood Transition Standards

- (A) All projects abutting a property in the R1, R2, R3, or R4 zoning district shall comply with the neighborhood transition standards established in Section 20.04.070(d)(5) (Neighborhood Transition Standards).
- (B) Where a primary structure's maximum height incentive is in conflict with the neighborhood transition standards established in Section 20.04.070(d)(5) (Neighborhood Transition Standards), the neighborhood transition standards shall govern. The petitioner may request relief from the neighborhood transition standards in accordance with the development standards variance procedure pursuant to Section 20.06.080(b) (Variance).

(2) Waiver of Fees

- (A) When a petition qualifies for one or more of the incentives in this Section 20.04.110, filing fees for the Plan Commission and/or Board of Zoning Appeals shall be waived.
- (B) When a petition that qualifies for one or more of the incentives in this Section 20.04.110 has been approved by the decision-making body:
 - i. Sewer hook-on fees for the project may be waived or reduced by the utilities service board.

(3) Administration

- (A) A petition for these development incentives shall be included with a petition for development approval.
- (B) Projects that qualify for the affordable housing incentive and/or the sustainable development incentive established in Section 20.04.110: (Incentives), shall have the site plan portion of the petition processed as a minor (rather than major) site plan, except when the project is adjacent to a lot in the R1, R2, R3, or R4 zoning districts or contains more than 50 dwelling units.
- (C) Staff shall determine if the project is eligible to receive incentives and if it satisfies the criteria established in this Section 20.04.110.
- (D) Where the final approval authority determines that the project satisfies the criteria of this Section 20.04.110, the final approval authority may authorize the modifications to development standards otherwise applicable to the project to allow the use of the approved incentives, but may not modify the Neighborhood Transition Standards in Section 20.04.070(d)(5).
- (E) The city may withhold issuance of a Certificate of Zoning Compliance or recommendation for a Certificate of Occupancy until verification that the project satisfies the affordable housing and/or sustainable development standards approved as part of the development petition.

(c) Affordable Housing

(1) Purpose

The purpose of these standards is to encourage the provision of affordable housing for very low-, low-, and moderate-income households. Affordable housing is necessary to help maintain a diverse housing stock and to allow all residents to have better access to jobs and to improve their economic status.

(2) Eligibility

Projects that satisfy one of the following criteria shall be eligible for the incentives established in subsection (5) below:

(A) Tier 1

- i. At least 60 percent of the total gross floor area of the building (including additional area awarded with an incentive) is dedicated to residential dwellings; and
- ii. A minimum of 15 percent of the total dwelling units (including those on floors awarded with an incentive) are income-restricted permanently, unless otherwise adjusted or forfeited by the City, to households earning less than 120 percent of the HUD AMI for Monroe County, Indiana; or

(B) Tier 2

- i. At least 60 percent of the total gross floor area of the building (including additional area awarded with an incentive) is dedicated to residential dwellings; and
- ii. A minimum of 7.5 percent of the total dwelling units (including those on floors awarded with an incentive) are income-restricted permanently, unless otherwise adjusted or forfeited by the City, to households earning below 120 percent of the HUD AMI for Monroe County, Indiana; and
- iii. A minimum of 7.5 percent of the total dwelling units (including those on floors awarded with an incentive) are income-restricted permanently, unless otherwise adjusted or forfeited by the City, to households earning below 90 percent of the HUD AMI for Monroe County, Indiana.

(3) Nonresidential Projects

Nonresidential projects that satisfy the following criteria shall qualify for the incentives established in subsection (5) below:

- (A) A linkage study has been approved by the City demonstrating that the proposed project results in an increased demand for affordable dwelling units in Bloomington; and
- (B) The petitioner takes one of the following actions in response to the findings of the linkage study:
 - i. The petitioner constructs at least the number of affordable dwelling units required to offset the increased demand for affordable housing calculated based on the linkage study, and each of those affordable dwelling units (a) is located off site, and (b) is deed-restricted to meet the Tier 1 or Tier 2 criteria for affordability levels and length of income restriction in Section 20.04.110(c), and (c) complies with the standards in Section 20.04.110(c)(6); or

- ii. The petitioner purchases at least the number of existing market-rate dwelling units required to offset the increased demand for affordable housing calculated based on the linkage study, and each purchased market-rate unit is converted to an affordable dwelling unit that (a) is deed-restricted to meet the Tier 1 or Tier 2 criteria for affordability levels and length of income restriction in Section 20.04.110(c), and (b) complies with the standards in Section 20.04.110(c)(6); or
- iii. The petitioner submits a payment-in-lieu of the construction or purchase of affordable dwelling units described in subsection (i) and (ii) above, pursuant to Section 20.04.110(c)(7), calculated on a per bedroom rate, in an amount sufficient to at least offset the increased demand for affordable housing calculated based on the linkage study.

(4) Student Housing or Dormitory Projects

Student housing or dormitory projects located in the Mixed-Use Downtown (MD) zoning district shall not be eligible for the incentives established in subsection (5) below. Student housing or dormitory projects located in other zoning districts shall be eligible for the incentives established in subsection (5) below if they meet the eligibility criteria outlined in subsection (2) above:

(5) Affordable Housing Incentives

(A) Reduced Bulk Requirements

The following dimensional standards shall apply to single-family and duplex residential lots in the R1, R2, R3, and R4 zoning districts that meet either of the two criteria in subsection (2) above:

- i. The minimum lot area for subdivision may be reduced up to 50 percent.
- ii. The minimum lot width for subdivision may be reduced up to 40 percent.
- iii. The side building setbacks may be reduced to five feet regardless of the number of stories.
- iv. The rear building setback may be reduced to 15 feet.
- v. Where these standards conflict with the neighborhood transition standards established in Section 20.04.070(d)(5) (Neighborhood Transition Standards), the neighborhood transition standards shall govern.

(B) Primary Structure Height

i. Eligibility

In addition to the eligibility criteria in 20.04.110(c)(2), affordable housing projects seeking increased maximum primary structure height shall comply with the following criteria:

- 1. The building shall contain six or more dwelling units; and
- 2. Unit size and bedroom mix for deed-restricted units shall be comparable to those for market-rate units.

ii. Tier 1 Projects

Projects that meet the Tier 1 affordability standards may increase the primary structure height by one floor of building height, not to exceed 12 feet, beyond the maximum primary structure height established for the zoning district where the project is located, as identified in Section 20.04.020 (Dimensional Standards).

iii. Tier 2 Projects

Projects that meet the Tier 2 affordability standards may increase the primary structure height by two floors of building height, not to exceed 24 feet, beyond the maximum primary structure height established for the zoning district where the project is located, as identified in Section 20.04.020 (Dimensional Standards).

iv. Sustainable Development Bonus

1. Tier 1 Projects: Projects that are eligible for increased primary structure height for affordable housing and sustainable development shall be eligible for one additional floor of building height, not to exceed 12 feet.
2. Tier 2 Projects: Projects that are eligible for increased primary structure height for affordable housing and sustainable development shall be eligible for one additional floor of building height, not to exceed 12 feet. The additional floor of building height granted under this subsection (iv)(2) shall be limited to 50 percent of the building footprint area of primary structure, and that additional floor shall be set back at least 10 feet further than the lower floors of the building.

(6) Other Standards

The following standards shall apply to all affordable housing projects seeking incentives under this section 20.04.110(c).

(A) Agreement Required

Petitioners shall enter into an affordable housing program or agreement administered by the federal, state, or local governments, or an organization approved by those governments to ensure that no person shall sell, rent, purchase, or lease an affordable housing unit created pursuant to this Section 20.04.110(c)(5) except to income-eligible households and in compliance with the provisions of this section.

(B) Advertising Requirement

Proof that the income eligible units will be marketed and leased similar to the market-rate units is required before occupancy can be issued.

(C) Location

- i. All affordable units constructed or rehabilitated under this Section 20.04.110(c)(5) shall be located either on site or within 1,320 feet of the project site. Required affordable dwelling units shall not be located in less desirable locations than market-rate units and shall not, on average, be less accessible to public amenities, such as open space, than the market rate units.
- ii. Affordable housing shall be indistinguishable from market-rate units, integrated with the rest of the development, and shall be compatible with the market rate units in design, appearance, construction and quality of materials.
- iii. If provided off site, the petition for construction of required affordable dwelling units shall be processed simultaneously with the project for which the incentive was approved. No petition for development shall be approved if a related petition for required affordable housing units is denied or the number of required affordable dwelling units is reduced.

(7) Payment-in-Lieu

- (A) A payment-in-lieu of providing housing that meets the Tier 1 or Tier 2 affordability criteria may be authorized by: an agreement with the City and all payments will be deposited into the Housing Development Fund.
- (B) The provisions of this Section 20.04.110(c)(7) shall become effective no later than the effective date of the UDO, by which time administrative procedures for calculating, collecting, accounting for, and spending payments-in-lieu in compliance with all applicable law shall be adopted and publicly available in the Administrative Manual within the Planning and Transportation Department. The procedures used for calculating, collecting, accounting for, and spending shall be reviewed frequently and updated as local housing market conditions change. The calculations may use or be based upon one or more of the following methods:
 - i. Housing and Urban Development (HUD) annual rents based on Area Median Income;
 - ii. Area Median Income (per person, income bracket, etc.);
 - iii. Rental rates per unit or per bedroom;
 - iv. Utility rates allowances per unit;
 - v. Tiered rental rates based on percentages above and/or below AMI; and
 - vi. Payment contribution rates.

(d) Sustainable Development

(1) Purpose

The Comprehensive Plan recognizes sustainability as a key component of nurturing Bloomington's environmental integrity. The following incentives are intended to encourage the use of sustainable development, rehabilitation, and retrofit practices in Bloomington beyond the baseline standards required by this UDO.

(2) Eligibility

Projects seeking the sustainable development incentives established in Section 20.04.110(d)(3) shall meet the qualifying criteria established in 20.04.110(a), shall be located on a previously developed lot(s) served by water and sewer utilities for at least five years prior to construction of petitioner's project, and shall satisfy one of the following two options below:

(A) Option 1

Projects seeking the sustainable development incentives established in Section 20.04.110(d)(3) shall demonstrate compliance with the following qualifying criteria:

i. Storm Water

The development site shall provide low impact development stormwater management by installing permanent infiltration or collection features (e.g., swale, culvert outfall, rainwater cistern) that can retain 100 percent of the runoff from at minimum, the 95th percentile (80th percentile for development in the MD zoning district) of regional rainfall events, based on the daily rainfall data and the methodology in the U.S. Environmental Protection Agency (EPA) Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act or a successor or replacement document issued by the EPA.

ii. Light Colored Hardscaping

At least 80 percent of horizontal hardscaping materials shall be installed with a solar reflectance index (SRI) of 86 or greater. The SRI shall be calculated in accordance with ASTM E1980.

iii. Covered Parking

1. A minimum of 90 percent of parking spaces shall be provided under cover. Any roof used to shade, or cover parking shall:
 - [a] Have a three-year aged SRI of at least 78 or
 - [b] Be 75% covered by energy generation systems, such as solar thermal collectors or photovoltaics.
2. Parking calculations shall include all existing and new off-street parking spaces that are leased or owned by the project, including parking that is outside the project boundary but is used by the project. On-street parking in public rights-of-way is excluded from these calculations.
3. Parking spaces within a parking structure shall count toward meeting this standard.

iv. Solar Energy, Cool or Vegetated Roof

Provide a roof meeting the standards in subsections (1), (2), (3) or (4) below. Roofs containing vegetation must follow landscaping standards pursuant to subsections 20.04.080(c): *General Landscaping*, 20.04.080(d): *Permitted Plant Species*, and 20.04.080(e): *Prohibited Plant Species*.

1. Solar Energy

Install an on-site solar photovoltaic system covering an area anywhere on the building or lot equal to or greater than 35 percent of the total roof area of all primary buildings, or an area equal to or greater than an amount required to provide 40 percent of estimated annual average electricity used in all primary buildings. Other renewable energy devices may be used in place of on-site solar panels so long as evidence of equivalent electricity generation capacity is provided.

2. Cool Roof

Install a cool roof on at least 70 percent of the total roof surface using roofing materials that have an aged SRI equal to or greater than the values in Table 4-21. If aged SRI is not available, the roofing material shall have an initial SRI equal to or greater than the values in Table 4-21.

Table 04-21: Minimum Solar Reflectance Index (SRI)

	Slope	Initial SRI	Aged SRI
Low-sloped roof	≤ 2:12	82	64
Steep-sloped roof	> 2:12	39	32

3. Vegetated Roof

Install a vegetated roof on at least 70 percent of the total roof surface using native or adapted plant species. Vegetated roofing shall comply with ASTM E2400-06: Standard Guide for Selection, Installation, and Maintenance of Plants for Green Roof Systems.

4. **Combination Roof**

Install a combination solar energy, cool roof and vegetated roof, with each portion meeting the applicable standards in subsections 1, 2, and 3 above, and together covering at least 70 percent of the roof surface.

v. **Building Efficiency**

Design the project to achieve improved building energy performance beyond the minimum required building code standards by:

1. Demonstrating that the project qualifies for a minimum of 17 points from the LEED v4.1 BD+C Optimize Energy Performance credit; or
2. Demonstrating that the project qualifies for a minimum of 100 points from the Assessing Energy Performance standards, as provided in Section 3.3.1.1 of the Green Globes for New Construction v1.5 Technical Reference Manual.

(B) **Option 2**

Projects seeking the sustainable development incentives established in Section 20.04.110(d)(3) shall submit proof that the project is being reviewed and expects to receive certification by the following verified third-party sustainability programs:

- i. Silver Certification by the U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) rating system;
- ii. Silver Certification by the Home Innovation National Green Building Standard (NGBS) Green Certified rating system;
- iii. Petal Certification by the International Living Future Institute Living Building Challenge (LBC) rating system; or
- iv. Three Green Globes Certification by the Green Building Initiative (GBI) Green Globes Certification rating system;
- v. Another verified third-party sustainability program producing equal or greater sustainability benefits to at least one of the programs listed in subsections (i.) through (iv.) above, as determined by the Planning and Transportation Director.

(3) **Sustainable Development Incentives**

(A) **Single-Family, Duplex, Triplex, and Fourplex Uses**

- i. Single-family and duplex residential projects in the R1, R2, and R3 zoning districts that satisfy the sustainable development criteria in Option 1 or Option 2 above shall be eligible for the reduced bulk requirements established in Section 20.04.110(c)(5)(A) (Reduced Bulk Requirements).
- ii. Single-family, duplex, triplex, and fourplex residential uses that satisfy the sustainable development criteria in Option 1 or Option 2 above shall not be eligible for additional primary structure height.

(B) **All Other Uses**

Projects that satisfy the sustainable development criteria in Option 1 or Option 2 above shall be eligible for additional primary structure height as established below:

- i. One floor of building height, not to exceed 12 feet, beyond the maximum primary structure height established for the zoning district where the project is located, as identified in Section 20.04.020 (Dimensional Standards).
- ii. Projects that qualify for the affordable housing incentives in Section 20.04.110(c) (Affordable Housing) in addition to the sustainable development incentive in 20.04.110(d)(2) shall be eligible for the additional incentive height described in Section 20.04.110(c)(5)(B)iv).

20.04.120 Operation and Maintenance

~~(a)~~ **Siltation and Erosion**

- ~~(1) Sedimentation basins and other control measures necessary to meet the requirements of Section 20.04.030(d) (Siltation and Erosion Prevention) shall be maintained by the property owner during construction.~~
- ~~(2) Any site stabilization measures shall be maintained by the property owner in perpetuity.~~
- ~~(3) Sediment shall be removed to maintain a depth of three feet.~~

~~(b)~~**(a) Landscaping**

Developers and their successors in interest shall be responsible for the regular maintenance of all landscaping elements in perpetuity. Failure to maintain all landscaping is a violation of this UDO. Specifically:

- (1) All plant material, including plant material on vegetated roofs, shall be maintained alive, healthy, and free from disease and pests;
- (2) All landscape structures including, but not limited to, vegetated roof infrastructure, raised landscape planters, fences, and walls shall be repaired or replaced periodically to maintain a structurally sound and aesthetic condition;
- (3) Ground cover shall be maintained in compliance with Title 6 (Health and Sanitation) of the Bloomington Municipal Code; and
- (4) Public sidewalks shall be maintained in compliance with Title 12 (Streets, Sidewalks, and Storm Sewers) of the Bloomington Municipal Code.

~~(c)~~**(b) Outdoor Lighting**

All lighting fixtures that are required to be shielded shall be installed and maintained so that they maintain compliance with all standards for shielded fixtures as specified in this Section 20.04.090 (Outdoor Lighting).

~~(d)~~**(c) Signs**

All signs and components thereof shall be kept in good repair and in safe, clean, neatly painted, and working condition.

(e)(d) Noise

All activities shall comply with Chapter 14.09 (Noise Controls) of the Bloomington Municipal Code regarding permissible levels of noise.

Chapter 20.05: Subdivision Standards

20.05.010 Purpose

This Chapter 20.05: (Subdivision Standards) establishes the minimum standards for the design and improvement of land subdivisions to:

- (a) Facilitate the orderly growth and harmonious development of the city to accomplish the goals of the Comprehensive Plan and to protect and promote public health, safety, and welfare;
- (b) Provide lots and parcels of sufficient size and appropriate design for the purposes for which they are to be used;
- (c) Protect the natural environment by promoting the use of good design, landscape architecture, and civil engineering to preserve and enhance natural topographic features, watercourses, drainage ways, floodplains, native vegetation, and trees and to control erosion and minimize runoff;
- (d) Provide safe ingress and egress for vehicular, bicycle, pedestrian, and all other types of traffic;
- (e) Ensure safe and efficient traffic circulation through coordinated and connected street systems with relation to major thoroughfares, adjoining subdivisions, adjoining streets, and public facilities;
- (f) Provide adequate water supply, sewage disposal, storm drainage and other utilities and facilities;
- (g) Provide for adequate sites for recreation areas, access to trail networks, and other public purposes;
- (h) Protect or enhance real property values;
- (i) Facilitate the transfer of lands having accurate legal descriptions and to establish and assure the rights, duties, and responsibilities of subdividers and developers with respect to land development;
- (j) Ensure that the costs of providing the necessary rights-of-way, street improvements, utilities and public areas and facilities for new developments are borne fairly and equitably;
- (k) Encourage the clustering of dwellings and other structures to preserve open space, preserve the natural terrain, minimize impervious surface area and resulting water runoff, minimize adverse visual impacts, minimize public infrastructure costs, and prevent public safety hazards; and
- (l) Provide a common ground of understanding and an equitable working relationship between public and private interests, so that both independent and mutual objectives can be achieved in the subdivision of land.

20.05.020 Applicability

This Chapter 20.05: (Subdivision Standards) shall apply to all subdivisions and land divisions located wholly or partially within the city.

20.05.030 Subdivision Types

All subdivisions shall be designed according to one of the subdivision types specified in this Chapter 20.05. A single subdivision shall not incorporate more than one of the subdivision types unless specifically authorized by the Plan Commission.

(a) Infill Subdivision (IS)**(1) Purpose**

The infill subdivision is intended to be used as follows:

- (A) Allow for subdivision containing a small number of lots and no new public street or rights-of-way;
- (B) Allow for residential development layouts that are consistent with adjoining developments in developed neighborhoods; and
- (C) Facilitate development on existing parcels not characterized by significant environmental constraints.

(2) Development Standards**Table 05-1: IS Subdivision Development Standards**

General Standards	
Parent tract size (minimum)	None
Parent tract size (maximum)	3 acres
Applicable base zoning districts	All base zoning districts
Open space required (minimum)	Not required
Lots served by alleys (minimum percentage)	Not required
Block length (maximum)	Not required
Cul-de-sac length (minimum)	Not permitted
Cul-de-sac length (maximum)	Not permitted
Right-of-Way Standards	
Transportation facilities	Required to meet Transportation Plan guidance
On-street parking [1]	Not required
Tree plot width (minimum)	Per Transportation Plan
Sidewalk/multiuse path width (minimum)	Per Transportation Plan

NOTES:

- [1] Where on-street parking is provided, it shall comply with the standards in 20.04.060(o) (On-street Parking Standards for Private Streets).

(b) Conservation Subdivision (CS)**(1) Purpose**

The conservation subdivision is intended to be used as follows:

- (A) Facilitate clustered development of land while ensuring maximum protection of environmentally sensitive features and set asides of significant common open space;
- (B) Provide for necessary connectivity to adjoining street systems to provide adequate levels of emergency service and traffic mitigation;
- (C) Allow very limited development for those parcels containing environmental features such as mature tree stands, karst geology, steep slopes, and water resources;
- (D) Fulfill the policy recommendations included in the Environment element of the Comprehensive Plan; and
- (E) Provide subdivision design controls that ensure the space-efficient installation of utilities, street and sidewalk network, as well as the placement of individual building lots.

(2) Development Standards**Table 05-2: CS Subdivision Development Standards**

General Standards	
Parent tract size (minimum)	5 acres
Applicable base zoning districts	All base zoning districts
Open space required (minimum) [1]	50%
Lots served by alleys (minimum percentage)	Not permitted
Block length (maximum)	1,760 feet
Cul-de-sac length (minimum)	Not permitted
Cul-de-sac length (maximum)	Not permitted
Right-of-Way Standards	
Transportation facilities	Required to meet Transportation Plan guidance
On-street parking [2]	R1 zone: not required R2 zone: not required
Tree plot width (minimum)	5 feet [3]
Sidewalk/multiuse path width (minimum)	Per Transportation Plan

NOTES:

[1] Measured as a percent of gross acreage and shall be identified as common open space on the plat.

[2] Where on-street parking is provided, it shall comply with the standards in 20.04.060(o) (On-street Parking Standards for Private Streets).

[3] May be reduced to a two-foot grass separation to allow for preservation of existing quality vegetation.

(c) Traditional Subdivision (TD)**(1) Purpose**

The traditional subdivision is intended to be used as follows:

- (A) Ensure the creation of a grid-like street and alley system that allows for maximum connectivity to adjacent neighborhoods as well as nonresidential activity centers;
- (B) Create a pedestrian-scale streetscape design featuring narrow street profiles, on-street parking, building forward orientation, short block lengths, and decorative street lighting;
- (C) Facilitate compatible development of parcels located next to existing subdivisions characterized by more grid-like street patterns;
- (D) Facilitate development on properties not characterized by environmental features;
- (E) Provide a range of development options (including mixed-uses, affordable housing, accessory dwelling units) where warranted by adjacent development patterns; and
- (F) Help achieve the goals and policies related to land development in the Comprehensive Plan.

(2) Development Standards**Table 05-3: TD Subdivision Development Standards**

General Standards	
Parent tract size (minimum)	3 acres
Applicable base zoning districts	R2, R3, R4, RM, RH, MS, MN, MM
Open space required (minimum) [1]	5%
Lots served by alleys (minimum percentage)	67%
Block length (maximum)	800 feet
Cul-de-sac length (minimum)	Not permitted
Cul-de-sac length (maximum)	Not permitted
Right-of-Way Standards	
Transportation facilities	Required to meet Transportation Plan guidance
On-street parking [2]	Required on at least one side of all streets
Tree plot width (minimum)	Residential areas: Per Transportation Plan, or 7 feet, whichever is greater Mixed-use/nonresidential areas: 0 feet, tree grates required
Sidewalk/multiuse path width (minimum)	Residential areas: Per Transportation Plan, or 5 feet, whichever is greater Mixed-use/nonresidential areas: 8 feet

NOTES:

[1] Measured as a percent of gross acreage and shall be identified as common open space on the plat.

[2] Where on-street parking is provided, it shall comply with the standards in 20.04.060(o) (On-street Parking Standards for Private Streets).

(d) Commercial/Employment Subdivision (CI)**(1) Purpose**

The commercial/employment subdivision is intended to be used as follows:

- (A) Allow for both minor subdivisions containing a small number of lots and no new public streets, as well as major subdivisions consisting of a larger number of lots and new public street extensions;
- (B) Permit all nonresidential developments that are compatible with their surroundings;
- (C) Ensure that new subdivisions contain adequate street, bicycle, and pedestrian connectivity to adjacent neighborhoods, as well as nonresidential activity centers; and
- (D) Facilitate development on parcels not characterized by significant environmental features.

(2) Development Standards**Table 05-4: CI Subdivision Development Standards**

General Standards	
Parent tract size (minimum)	None
Applicable base zoning districts	MS, MN, MM, MC, ME, MI, MD, MH, and EM
Open space required (minimum) [1]	Not required
Lots served by alleys (minimum percentage)	Not required
Block length (maximum)	1,320 feet
Cul-de-sac length (minimum)	200 feet
Cul-de-sac length (maximum)	600 feet
Right-of-Way Standards	
Transportation facilities	Required to meet Transportation Plan guidance
On-street parking	Not required [2]
Tree plot width (minimum)	Per Transportation Plan
Sidewalk/multiuse path width (minimum)	

NOTES:

[1] Measured as a percent of gross acreage and shall be identified as common open space on the plat.

[2] Where on-street parking is provided, it shall comply with the standards in 20.04.060(o) (On-street Parking Standards for Private Streets).

20.05.040 Easements

(a) Applicability

All proposed plats submitted for approval under the provisions of this Chapter 20.05: (Subdivision Standards) shall comply with the standards in this Section 20.05.040.

(b) General Standards

- (1) All easements and corresponding utility location plans shall be approved prior to the approval of the plat.
- (2) All necessary easements shall be clearly identified on secondary plats and shall be recorded per processes as defined within Chapter 20.06: (Administration & Procedures), and shall include a definition consistent with Section 20.05.040(e).
- (3) All proposed plats shall clearly identify all existing easements on the property, including dimensions, bearings, and recorded instrument numbers.
- (4) Signs shall not be located within utility easements unless the sign is a public sign authorized by Section 20.04.100(c)(2)(A) (Public Signs), and is further authorized by the city.
- (5) Each easement shall allocate sufficient areas for the utilities, infrastructure, amenities, or features that are the subject of the easement, including but not limited to drainage, utilities, tree preservation, environmental conservation, pedestrian access, vehicular access, and transit facilities, wherever necessary.

(c) Environmental Features

The following environmental features that are determined to not be developable per Section 20.04.030 (Environment) shall be placed within the appropriate easements on the secondary plat or set aside in easements on a deed where no plat is required or proposed, as identified in Section 20.04.030 (Environment).

- (1) All areas of excessive slope as defined in Section 20.04.030(c) (Steep Slopes).
- (2) All karst features and their required buffer zones as defined in Section ~~20.04.030(f)~~20.04.030(g) (Karst Geology).
- (3) All required riparian buffer areas as defined in Section ~~20.04.030(e)~~20.04.030(f) (Riparian Buffers).
- (4) All areas within regulatory floodways and flood fringes as defined in Section 20.04.040 (Floodplain).
- (5) All delineated wetlands and required wetland buffer areas as defined in Section ~~20.04.030(g)~~20.04.030(h) (Wetlands).
- (6) All trees required to be preserved by Section ~~20.04.030(h)~~20.04.030(i) (Tree and Forest Preservation).

(d) Maintenance

- (1) For features required to be in an easement, maintenance shall generally be the responsibility of the lot owner, except as expressly provided otherwise in this UDO or in the development approval.

- (2) A grant of authority to the city to enter upon an easement for purposes of inspection, maintenance and/or repair of a feature within the easement shall not be construed as relieving the owner or owners of such responsibility.
- (3) A facilities plan shall also be provided in accordance with the Administrative Manual.

(e) Standards for Specific Easement Types

Unless specifically defined on an approved plat or by condition of plat approval, the following requirements shall apply:

(1) Sanitary Sewer Easement

- (A) Shall allow the City Utilities Department exclusive access for installation, maintenance, repair, or removal of sanitary sewer facilities.
- (B) Encroachment by other utilities is prohibited, unless such encroachment is approved by the City Utilities Department in conjunction with the primary plat. Upon written permission from the City Utilities Department, encroachments may be permitted after the recording of the secondary plat.
- (C) Trees and structures including, but not limited to, buildings, fences, retaining walls, and light fixtures, shall not be located within sanitary sewer easements.
- (D) Grading activity shall be prohibited within sanitary sewer easements without written permission from the City Utilities Department.

(2) Waterline Easement

- (A) Shall allow the City Utilities Department exclusive access for installation, maintenance, repair, or removal of potable water facilities.
- (B) Encroachment by other utilities is prohibited, unless such encroachment is approved by the City Utilities Department in conjunction with the primary plat. Upon written permission from the City Utilities Department, encroachments may be permitted after the recording of the secondary plat.
- (C) Trees and structures including, but not limited to, buildings, fences, retaining walls, signs, and light fixtures, shall not be located within waterline easements.
- (D) Grading activity shall be prohibited within waterline easements without written permission from the City Utilities Department.

(3) Drainage Easement

- (A) Shall be required for any surface swales or other minor drainage improvements that are intended to serve the lots on which they are located.
- (B) Shall prohibit any alteration or structure within the easement that would hinder or redirect flow.
- (C) Shall provide that the owner of the lot on which the easement is placed shall be responsible for maintenance of the drainage features within such easement.
- (D) Shall be enforceable by the City Utilities Department and by owners of properties that are adversely affected by conditions within the easement.

- (E) Shall allow the City Utilities Department to enter upon the easement for the purpose of maintenance, to charge the costs of such maintenance to the responsible parties, to construct drainage facilities within the easement, and to assume responsibility for the drainage features at its discretion.

(4) Utility Easement

- (A) Shall allow both private and public utility providers access associated with the installation, maintenance, repair, or removal of utility facilities.
- (B) Prohibits the placement of any unauthorized obstruction within the easement area unless authorized by the City Utilities Department and the easement holder(s).

(5) Pedestrian Easement

- (A) Grants the general public the right to access the pedestrian easement for purposes of walking, running, bicycling, skating, or using small motorized and non-motorized vehicles approved by the city.
- (B) Grants the city the right to construct, alter, repair, maintain, or remove improvements within the easement area.
- (C) Prohibits the placement of any obstruction within the pedestrian easement.

(6) Transit Facility Easement

- (A) Grants the public transit authority the right to construct, alter, repair, maintain, or remove structures to be used for awaiting, boarding, or exiting public transportation.
- (B) Grants the general public the right to utilize the transit facility easement for the purposes of awaiting, boarding, or exiting public transportation.
- (C) Prohibits anyone other than the public transportation authority from placing any structures within the transit facility easement.

(7) Karst Conservancy Easement

- (A) Prohibits any land-disturbing activities, including the placement of a fence, within the easement area. Mowing is allowed within the easement area.
- (B) Allows the removal of dead or diseased trees that pose a safety risk or impede drainage as well as allowing the removal of exotic or invasive species, only after first obtaining written approval from the Planning and Transportation Department.
- (C) Grants the city the right to enter the property to inspect the easement and alter or repair the karst feature.
- (D) All Karst Conservancy Easements shall be identified with public signs located along the boundary of the easement. Public signs shall be placed at intervals of no more than 200 feet, and each public sign shall be a maximum of one and one-half square feet in area. A minimum of one public sign is required, regardless of easement size. The property owner shall be responsible for installing and maintaining required signage.
- (E) Any use of pesticides, herbicides, or fertilizers is prohibited within the easement area.
- (F) Allows, in cases where removal of exotic or invasive species is proposed, the restoration of disturbed areas with native plant material. Written approval from the Planning and Transportation Department is required prior to any proposed restoration.

(8) Tree Preservation Easement

- (A) Prohibits the removal of any tree over six inches dbh within the easement area.
- (B) Allows the removal of dead or diseased trees that pose a safety risk as well as allowing the removal of exotic or invasive species, only after first obtaining written approval from the Planning and Transportation Department.
- (C) All tree preservation easements shall be identified with public signs located along the boundary of the easement. Public signs shall be placed at intervals of no more than 200 feet, and each public sign shall be a maximum of one- and one-half square feet in area. A minimum of one public sign is required, regardless of easement size. The property owner shall be responsible for installing and maintaining required signage.
- (D) Allows, in cases where removal of exotic or invasive species is proposed, the restoration of disturbed areas with native plant material. Written approval from the Planning and Transportation Department is required prior to any proposed restoration.

(9) Conservancy Easement

- (A) Prohibits any land-disturbing activities including the placement of a fence, or alteration of any vegetative cover, including mowing, within the easement area.
- (B) Allows the removal of dead or diseased trees that pose a safety risk or impede drainage as well as allowing the removal of exotic or invasive species, only after first obtaining written approval from the Planning and Transportation Department.
- (C) All conservancy easements shall be identified with public signs located along the boundary of the easement. Public signs shall be placed at intervals of no more than 200 feet, and each public sign shall be a maximum of one and one-half square feet in area. A minimum of one public sign is required, regardless of easement size. The property owner shall be responsible for installing and maintaining required signage.
- (D) Allows, in cases where removal of exotic or invasive species is proposed, the restoration of disturbed areas with native plant material. Written approval from the Planning and Transportation Department is required prior to any proposed restoration.

(10) Riparian Buffer Easement

- (A) Prohibits any land-disturbing activities including the placement of a fence, or alteration of any vegetative cover, including mowing, within the easement area except for disturbance as allowed in Section 20.04.030(f).
- (B) Allows the removal of dead or diseased trees that pose a safety risk or impede drainage as well as allowing the removal of exotic or invasive species, only after first obtaining written approval from the Planning and Transportation Department.
- (C) All riparian buffer easements shall be identified with public signs located along the boundary of the easement. Public signs shall be placed at intervals of no more than 200 feet, and each public sign shall be a maximum of one and one-half square feet in area. A minimum of one public sign is required, regardless of easement size. The property owner shall be responsible for installing and maintaining required signage.

(D) Allows, in cases where removal of exotic or invasive species is proposed, the restoration of disturbed areas with native plant material. Written approval from the Planning and Transportation Department is required prior to any proposed restoration.

(11) Other

Other easements may be required by the Plan Commission to preserve features or functions unique to a given property and shall be defined on the recorded plat.

20.05.050 Subdivision Design Standards

(a) Purpose

This section is intended to establish and define the design standards that are required by the City for any subdivision of land.

(b) Applicability

This Section 20.05.050 applies to all site and infrastructure improvements associated with subdivisions. These requirements shall also apply to Planned Unit Developments associated with subdivision approval.

(c) Generally

- (1) In planning for the development of areas within the jurisdiction of the Plan Commission, the owner and petitioner shall make every effort to assure that the proposed project will be accomplished in agreement with the intent and purpose of the Comprehensive Plan.
- (2) The proposed development shall also be consistent with the property's zoning classification and shall result in a project that is harmonious with the environmental character of the property as well as the overall community of the City of Bloomington.
- (3) Existing buildings, structures, parking areas, or improvements that require a setback and are on lots involved in either a subdivision or an exempted adjustment of lot lines listed in 20.06.060(a)(2)(B) do not have to meet setback standards related to existing property lines that do not change. The setback standards of this UDO shall apply for all newly created lot line locations.
- (4) No site feature that is necessary to meet a requirement of Chapter 4 may be removed as part of a subdivision so as to bring a property out of or further from compliance.

(d) Specific Standards for Subdivision Types

In addition to the standards in this Section 20.05.050 (Subdivision Design Standards), each subdivision type defined in 20.05.030 (Subdivision Types) shall comply with the specific standards summarized in Table 05-5: Subdivision Development Standards below.

Table 05-5: Subdivision Development Standards

	IS	CS	TD	CI
Applicable base zoning districts	All base zoning districts	All base zoning districts	R2, R3, R4, RM, RH, MS, MN, MM	MS, MN, MM, MC, ME, MI, MD, MH, and EM

Table 05-5: Subdivision Development Standards

	IS	CS	TD	CI
Parent tract size (minimum)	None	5 acres	3 acres	None
Parent tract size (maximum)	3 acres	None	None	None
Open space required (minimum) [1]	Not required	50%	5%	None
Block length (maximum)	Not required	1,760 feet	800 feet	1,320 feet
Cul-de-sac length (minimum)	Not permitted	Not permitted	Not permitted	200 feet
Cul-de-sac length (maximum)	Not permitted	Not permitted	Not permitted	600 feet
Transportation facilities	Required to meet Transportation Plan guidance			
On-street parking [2]	Not required	RE zone: not permitted R1 zone: not required R2 zone: not required	Required on at least one side of all streets	Not required
Lots served by alleys (minimum percentage)	Not required	Not permitted	67%	Not required
Tree plot width (minimum)	Per Transportation Plan	5 feet [3]	Residential areas: 7 feet Mixed-use/nonresidential areas: 0 feet, tree grates required	Per Transportation Plan
Sidewalk/multiuse path width (minimum)		Per Transportation Plan	Residential areas: 5 feet Mixed-use/nonresidential areas: 8 feet	

NOTES:

[1] Measured as a percent of gross acreage and shall be identified as common open space on the plat.

[2] Where on-street parking is provided, it shall comply with the standards in 20.04.060(o) (On-street Parking Standards for Private Streets).

[3] May be reduced to a two-foot grass separation to allow for preservation of existing quality vegetation.

(e) Lots**(1) Generally**

- (A) The shape, location and orientation of all lots within a development shall be appropriate for the uses proposed and be in accordance with the zoning districts.
- (B) Residential lots shall have side lot lines that are within 15 degrees of a right angle to the street and right-of-way.
- (C) Except as permitted by this UDO, lots shall not be permitted to be through lots.

(2) Intersection Radii

- (A) At intersections of streets and alleys, property line corners shall be rounded by arcs of at least 20 feet in radius, or by chords of such arcs.
- (B) At intersections of streets, the property line corners shall be rounded by arcs with radii of not less than 25 feet, or by chords of such arcs.

- (C) At intersections of alleys, the property line corners shall be rounded by arcs with radii of not less than 10 feet, or by the chord of such arcs.

(3) Design

- (A) Commercial developments (e.g., multi-tenant centers, commercial areas, and office parks) shall be designed as a single project no matter how many lots are created. All areas of the parent tract shall be shown as they are intended to be laid out and used.
- (B) All lots shall be designed with a depth-to-width ratio not to exceed four to one.
- (C) The minimum lot width of all lots shall be measured at the required front building setback line.
- (D) All new single-family, duplex, triplex, and fourplex residential lots shall have frontage on a public street right-of-way or shall be part of a cottage home development with frontage on a public street right-of-way.
- (E) The Plan Commission may modify lot and setback standards in order to create a common area development plat. This approval is subject to the following standards:
- i. A petitioner shall request a common area development designation with the primary plat;
 - ii. All individual units shall be placed on an individual lot;
 - iii. All units shall have individual utility service;
 - iv. Lot lines shall not extend more than 10 feet from any structure; and
 - v. All areas outside of individual lots shall be placed within common area.
- (F) The Plan Commission may approve alternative setback standards in order to create a zero-lot line development plat, subject to the following standards:
- i. The petitioner shall request a zero-lot line development designation with the primary plat;
 - ii. All individual units shall be placed on an individual lot; and
 - iii. All units shall have individual utility service.

(f) Monuments and Markers

(1) Installation of Monuments and Markers

All monument and marker improvements shall be installed per 865 IAC 1-12-18.

(2) Centerline Monuments

Monuments conforming to 865 IAC 1-12-18(a)(2) shall be set on street centerlines at the beginning and end of curves and at the intersection of centerlines. When it is not practical to set a centerline monument in accordance with 865 IAC 1-12-18(a)(2), a centerline monument conforming to 865 IAC 1-12-18(a)(3) shall be set.

(3) Reporting

Upon completion of the development, as-built drawings shall be submitted showing where monuments and markers were placed. This shall be accompanied by an affidavit from the surveyor certifying that the monuments and markers are still accurately in place, and were not removed, moved, or buried such that they do not accurately denote surveyed lines or cannot be easily located.

(g) Open Space

(1) Generally

- (A) All residential developments shall have a percentage of the land set aside for open space.
- (B) Subdivisions shall provide the minimum required open space per Table 05-5: Subdivision Development Standards.

(2) Common Areas

In addition to easements required by Subsection 20.05.040: Easements, the following environmental features shall be placed within Common Areas on the plat:

- (A) Karst Features: All karst features and their required buffer zones that have a total area of one-half (0.5) acre or greater.
- (B) Riparian Buffers: All riparian buffers defined as Streamside or Intermediate Zones.
- (C) Floodways: All areas within regulatory floodways.
- (D) Wetlands: All delineated wetlands and required wetland buffer areas.
- (E) Forested Areas: All contiguous areas of tree cover totaling one (1) acre or greater that are required to be preserved.

(3) Site Features that Qualify as Open Space

The following features count toward the minimum open space requirements as described:

(A) Conservation Areas

Any required preservation/conservation area shall count toward open space requirements.

(B) Man-made Water Features

Any man-made water feature (including retention facilities) shall count toward minimum open space if it supports aquatic life and provides native habitat as follows:

i. Surface Area

A surface area at normal pool elevation of at least 32,670 square feet (0.75 acres); and

ii. Perimeter Access

1. A buffer area around the full circumference of the water feature of at least 50 feet from the top of bank shall be available as open space.
2. This open space shall be planted and maintained as wildlife habitat. This includes use of native (no more than 20 percent lawn grass) species including prairie grasses and/or tree planting.

(C) Dry Detention Facilities

Man-made stormwater detention facilities (dry) shall count toward the minimum open space if they meet the following standards:

i. Area

The facility shall have at least 10,890 square feet of flat bottom (0.25 acres).

ii. Depth

The man-made depth of the detention facility shall not exceed four feet from top of bank.

iii. Slope

The man-made slopes within the detention facility shall not exceed a four to one ratio.

iv. Perimeter Access

1. A buffer area around the full circumference of the facility of at least 25 feet from the top of bank shall be available as open space.
2. This open space (facility and buffer area) shall be planted and maintained as usable area. This includes use of prairie grasses, native species, native ground cover, or lawn grass. Tree planting shall not be within the basin area or on the slopes of the bank.

(D) Regulated Floodplain

The regulated floodplain of any stream, regulated drain, or river shall count toward the open space requirements.

(E) Other

Other common areas set aside to meet open space requirements.

(h) Storm Water

(1) Applicability

All proposed subdivisions submitted for approval, under the provisions of this UDO, shall provide for the collection and management of all surface water drainage.

(2) Drainage Plan

All subdivision requests shall include the submittal of a drainage plan to the City Utilities Department, ~~and are subject to the requirements of Title 13 (Stormwater) of the Bloomington Municipal Code. The drainage plan shall include, but not be limited to, the following items:~~

~~Complete grading plan showing all proposed detention and retention facilities, swales, and drainage structures;~~

~~All proposed piping including size and location of proposed stormwater lines, as well as plan and profile drawings for all proposed improvements;~~

~~Complete and accurate stormwater calculations justifying methodology of the drainage plan in compliance with City Utilities Department standards; and~~

~~The finish floor elevation of all proposed structures.~~

~~Stormwater Mitigation Requirements~~

~~Drainage facilities shall be provided to control runoff from all upstream drainage areas and from all areas within the proposed subdivision to a location adequate to receive such runoff. Furthermore, drainage facilities shall:~~

~~Be designed and constructed in accordance with City Utilities Department standards.~~

~~Be durable, easily maintained, retard sedimentation, and retard erosion. Facilities shall not endanger the public health and safety or cause significant damage to property.~~

~~Be sufficient to accept runoff from the site after development and the present water runoff from all areas upstream to achieve discharge rates meeting City Utilities Department standards.~~

~~Provide stormwater runoff quality mitigation in compliance with City Utilities Department standards.~~

(3) Common Area

Engineered and built drainage improvements, including but not limited to detention and retention facilities, for subdivisions shall be contained within common areas. Such improvements shall be constructed and maintained according to City Utilities Department standards, ~~and a Facilities Maintenance Plan shall be required pursuant to the Administrative Manual.~~

(4) Easements

Features and improvements shall be located within easements where required, in accordance with the Administrative Manual and this UDO.

(i) Flood Damage Mitigation

All subdivision proposals shall:

- (1) Be consistent with the need to minimize flood damage.
- (2) Have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage.
- (3) Have adequate drainage provided to reduce exposure to flood hazards.

(j) Streets and Rights-of-Way

(1) Applicability

All developments submitted for subdivision approval shall allocate adequate areas for new streets in conformity with this UDO and Transportation Plan.

(2) Private Streets

- (A) Unless approved by the Plan Commission and the Board of Public Works, private streets are not permitted. All proposed streets shall have right-of-way dedicated as indicated on the Transportation Plan.
- (B) All private streets shall be constructed to the public street standards established in this UDO and other applicable City standards.

(3) Dedication of Right-of-Way

In developments that adjoin or include existing streets that do not conform to the minimum right-of-way dimensions as established in the Transportation Plan, the petitioner shall dedicate additional width along either one or both sides of such streets in order to bring them up to standards.

(4) Construction and Installation Standards for Streets

- (A) All street improvements are to be designed, constructed and installed per the City Planning and Transportation Department Standards and Specifications.
- (B) Any new development that includes the construction of a new or widened public street shall be required to install underground telecommunications conduit to extend the City's fiber optic network, known as the Bloomington Digital Underground (BDU). Conduit installation shall be in accordance with BDU specifications and permit requirements of the City of Bloomington. This requirement shall not apply if the Planning and Transportation Director determines that the installation of underground telecommunications conduit is not necessary after review by the City's Director of Information and Technology Services.

(5) Street Design**(A) General Street Layout**

Streets shall be laid out on the parent tract:

- i. In an orderly and logical manner;
- ii. To provide connectivity to adjacent parcels;
- iii. To provide pedestrian and vehicular safety; and
- iv. To provide reasonably direct access to the primary circulation system.

(B) Topographical Consideration

Streets shall be adjusted to the contour of the land so as to minimize cutting and filling activity on natural terrain.

(C) Design Speed

The maximum design speed for streets shall be in accordance with AASHTO and City Planning and Transportation Department requirements.

(D) Connectivity

All developments shall provide stub streets to connect to adjacent properties.

- i. Where the development abuts undeveloped land, the final number and location of stub streets shall be determined by the Plan Commission.
- ii. Where the development abuts land that has established stub streets, built or platted, the petitioner shall design the street system to connect to those stub streets.

(E) Stub Streets

Stub streets shall be constructed at the same time the other streets are built within the development.

- i. Temporary turnaround areas that can be surfaced with asphalt, concrete, or permeable pavers, may be required to provide safe turnaround for emergency vehicles. Such areas shall be located within dedicated street rights-of-way and shall be removed when stub streets are further extended.
- ii. A permanent public sign shall be installed at the terminus of the stub street stating clearly that the street will connect to future development.

(F) Gated Entrances

Gated entrances are not permitted.

(G) Intersections

All intersections of two streets shall be within 15 degrees of perpendicular as measured at the street centerlines. Intersections of more than two streets at one point shall not be permitted. Local street intersections with center line offsets of less than 125 feet shall not be permitted.

(H) Right-of-way Width

- i. The minimum right-of-way width shall be as indicated on the Transportation Plan unless specified otherwise in this UDO.

- ii. The minimum right-of-way dimensions established in the Transportation Plan may be reduced upon approval of the City Traffic and Transportation Engineer and Fire Chief, or designee if:
 - 1. The reduction will mitigate environmental impacts; or
 - 2. The reduction will result in alignment with adjacent streets.

(I) Street Width

- i. The minimum street pavement width shall be as indicated on the Transportation Plan. Street width shall be determined by measuring from back of curb to back of curb unless specified otherwise in this UDO.
- ii. The minimum street width dimensions established in the Transportation Plan may be reduced upon approval of the City Traffic and Transportation Engineer and Fire Chief, or designee if:
 - 1. The reduction will mitigate environmental impacts; or
 - 2. The reduction will result in alignment with adjacent streets.

(J) Curb Type

All subdivisions shall use vertical curbs.

(K) Cul-de-sac Length

The maximum cul-de-sac length shall be as indicated in Table 05-5: Subdivision Development Standards.

(L) Cul-de-sac Terminus

The terminus of each cul-de-sac shall be a round bulb, large enough to accommodate the largest fire truck in service within the city.

(M) Permanent Dead-end Streets

Dead-end streets are prohibited. Dead-end streets do not include culs-de-sac or stub streets.

(N) Eyebrows

Eyebrow street designs shall not be permitted.

(O) Block Length

The maximum block length shall be as indicated in Table 05-5: Subdivision Development Standards.

(P) Pavement Thickness

The minimum street pavement thickness shall conform to City of Bloomington Standards based on the street's classification in the Transportation Plan.

(6) Alleys

Alleys are considered an essential part of a traditional neighborhood design; therefore, they shall be integrated into the overall design of traditional neighborhood subdivisions. In other types of subdivisions, alleys may be utilized where they are compatible with surrounding residential development patterns.

- (A) Alleys shall be public with a minimum of 20 feet of right-of-way.

- (B) Alleys shall have a minimum of 14 feet of pavement width.
- (C) Alleys are not required to have a curb.
- (D) Alley intersections with public streets shall not exceed 20 degrees from perpendicular to said streets.
- (E) The minimum corner radius at any alley intersection with a public street shall be 10 feet. The corner radius may be reduced upon a determination by the City Planning and Transportation Department that such a reduction is not expected to have a significant impact on vehicle, bicycle, or pedestrian safety at the intersection and such a reduction is within engineering standards or guidelines for vehicle, bicycle, or pedestrian modes.
- (F) All alleys are to be constructed per standards of the City Planning and Transportation Department.

(7) Arterial Frontages

(A) Residential

All residential subdivisions shall be designed so that no residential lot directly borders an arterial level street unless those lots use alley access, an access street, or obtain access from a street other than an arterial and provide a buffer to screen the visual impacts of homes along arterial level streets.

i. Alley Access

Individual single-family (attached and detached), duplex, triplex, or fourplex residential lots may directly front arterial streets if rear alleys are used for all lots fronting the arterial street.

1. Front setbacks for these lots shall be increased to a minimum of 40 feet from the proposed right-of-way indicated on the Transportation Plan.
2. Alleys shall be constructed to standards of Section 20.05.050(j)(6).

ii. Access Street

Individual single-family (attached and detached), duplex, triplex, or fourplex residential lots may front arterial level streets if an access street is used.

1. This access street must be separated from the proposed right-of-way indicated on the Transportation Plan by a grass strip of at least 20 feet in width.
2. (An access street shall be designed to accommodate two-way traffic.
3. An access street shall be designed to generally run parallel to the arterial level street.
4. Access streets shall be placed within additional right-of-way or an access easement.
5. Access streets shall be paved to a minimum width established in the most recent Transportation Plan for that street type.
6. In addition to the required pedestrian facility along the arterial level street, a sidewalk five feet in width shall be installed adjacent to the residential lots on the access street.
7. Access streets must provide two points of ingress/egress to the arterial street if they give access to 10 or more residential lots or if they exceed 500 feet in length.
8. No more than two ingress/egress points are permitted for an access street.

iii. Buffer

Through lots may be used with the rear of the lots facing the arterial level street if a buffer is established between the residential lots and the arterial level street and such buffer is maintained as common area through a recorded easement.

1. The buffer shall be a minimum of 30 feet in width measured from the proposed right-of-way indicated on the Transportation Plan.
2. The buffer shall include one of the following features:
 - [a] A solid wall or combination of walls a minimum of three feet in height, combined with landscaping sufficient to achieve a nonlinear, dense buffer of evergreen and deciduous trees, that together equal to at least 75 percent of the subdivision's lineal frontage along an arterial street.
 - [b] A landscaped berm a minimum of three feet in height and ten feet in width installed in a nonlinear manner. Landscaping within the buffer area shall be equal to one canopy tree, two ornamental trees, two evergreen trees and 10 large shrubs for every 50 feet of arterial frontage.
3. No feature may interfere with sight requirements for safe ingress and egress.

(B) Mixed-Use/Nonresidential

Shared access along arterial level streets for mixed-use or nonresidential subdivisions shall be used to the maximum extent possible.

i. Ingress/Egress

1. Developments with 15 acres or less shall have a maximum of one ingress/egress point onto an arterial level street if a secondary access street is present and a maximum of two ingress/egress points onto an arterial level street if no secondary access street is present.
2. Developments with more than 15 acres shall have a maximum of three ingress/egress points onto a public street(s).
3. Ingress/egress points onto arterial streets shall be separated by a minimum of 200 feet from any intersection or another ingress/egress point.

ii. Traffic Lanes

Shared access streets shall be designed to accommodate two-way traffic.

iii. Right-of-way or Easement

Shared access streets shall be placed within additional right-of-way or permanent access easement.

iv. Pavement Width

Access streets shall be a minimum of 20 feet in width.

v. Sidewalks

Access streets shall have sidewalks adjacent to the lots and be integrated into the overall pedestrian network.

(8) Street Names**(A) Proposed Street Name**

- i. The petitioner shall propose a unique name for each street within the development at the time of primary plat petition.
- ii. The names of all new public and private streets are subject to approval by the City Planning and Transportation Department in compliance with Emergency-911 street naming procedures and the standards in this section.

(B) Street Name Standards

Within the jurisdiction of this ordinance, the following standards shall apply:

- i. Streets that are continuations of, or obviously in alignment with, any existing streets, either constructed or appearing on a validly recorded plat, shall bear the names of such existing streets.
- ii. The root street name (e.g., "Maple") shall not duplicate or be phonetically similar to any existing street name. The only exception to this rule is if a new street is the continuation of an existing street, in which case, the new street shall have the exact same name as the existing street.
- iii. Deviations in suffix names (e.g., "Street," "Court," or "Avenue") shall not constitute a unique name. Therefore, if "Maple Street" exists, the name "Maple Court" shall not be permissible.
- iv. Street address numbers for all lots shall be assigned by the City Planning and Transportation Department and shall be identified on the secondary plat.
- v. Approved street names shall be identified on the secondary plat.

(C) Authority to Rename a Proposed Street

The Plan Commission, the Board of Public Works, the Planning and Transportation Director, or E-911 coordinator shall have the authority to require a new name to be chosen for any street. If a new name is not proposed by the petitioner, the Board of Public Works shall have the right to rename the street prior to secondary plat approval.

(9) Street Signs**(A) Applicability**

Every street shall have the minimum number of public signs necessary to:

- i. Effectively direct or notify drivers, bicyclists, and pedestrians; and
- ii. Provide an information system for visitors to efficiently find a certain street, address, or development amenity.

(B) City's Responsibilities

The petitioner shall be responsible for disseminating specifications for the installation of all public safety related street signs for streets, including, but not limited to speed limit signs, stop signs, yield signs and street name signs. The City's engineering policies and nationally recognized engineering standards shall be used to determine the type, size, height and location of each of these public signs required for any development. Site specific engineering work necessary to document compliance shall be prepared by a licensed engineer.

(C) Petitioner's Responsibilities

- i. The petitioner shall be required to install public signs prior to any street being opened to public. These public signs shall be installed in the location and to the height determined by the City Planning and Transportation Department.
- ii. The petitioner shall install a minimum of one street name public sign at each street intersection within the subdivision and on all perimeter intersections. At least one public sign shall be set on the most conspicuous corner of the intersections, at a point approximately six inches from the sidewalk intersection (on the street side).
- iii. The petitioner shall install temporary street name public signs for any streets open to the public during construction. Such public signs shall meet the location requirements specified for street name public signs in (ii) above. Temporary street name public signs shall be removed when permanent street name public signs are installed.

(10) Street Lighting**(A) Street Lighting Plan**

All subdivisions shall be required to have a street lighting plan approved by the City Engineering Department and submitted to the City Board of Public Works as a component of the secondary plat proposal. The street lighting plan shall be certified by the local public electric company.

(B) Street Lighting Plan Approval

All certified street lighting plans shall be accepted by the City Board of Public Works prior to secondary plat signing. Street lighting plans shall include, but not be limited to, spacing of the fixtures, fixture type, fixture color, easements, light shielding, and the manufacturer. Full cutoff fixtures shall be used. The developer shall be responsible for installing all streetlights in accordance with the approved street lighting plan.

(C) Alternative Street Lighting Plans

Requests, including but not limited to the provision of specialized fixtures or use of privately-owned lights, may be considered by the City Board of Public Works as an alternative to conventional street lighting plans.

(k) Utilities

(1) Sanitary Sewer Standards**(A) Applicability**

All subdivisions proposed to the Plan Commission for approval under the provisions of this UDO shall provide for the collection of all sanitary sewage discharges by the installation of sanitary sewers. These sewers shall be tied into the community-wide system as per City Utilities Department standards and constructed within street rights-of-way or within dedicated sewer easements.

(B) Location

Septic systems shall not be permitted unless adequate sewer system service is not available and such unavailability is verified by the City Utilities Department.

(2) Water Service Standards**(A) Applicability**

All proposed plats submitted to the Plan Commission for approval, under the provisions of this chapter, shall provide for the installation of a complete potable water and fire protection distribution system.

(B) Private/Semipublic Systems

Private or semipublic water supplies and distribution systems shall not be allowed.

(C) Extension of Public Water Supplies

The extension of public water supplies and distribution systems shall be made at the sole expense of the petitioner. The construction plans shall be approved by the City Utilities Department and shall be on file with the City Utilities Department prior to the issuance of secondary plat approval.

(3) Coordination of Sewer/Waterline Installation

It shall be the petitioner's responsibility to coordinate the installation of the sewer and water system with other utilities. Conflicts with prior constructed utilities and damage to them shall not be allowed. If such damage occurs, the work shall be stopped, and damages repaired before allowing the work to continue.

(4) Fire Hydrants

Fire hydrants shall be installed along all public streets and shall have a maximum distance between hydrants of 600 feet, or otherwise approved by the Fire Chief.

(5) Construction Standards for Utilities

All public utility improvements shall be designed and installed as per City Utilities Department standards.

(I) Universal Design

- (1) In subdivisions or phases of subdivisions approved after 04/18/2020 that contain more than 25 lots designed to accommodate single-family detached or single-family attached dwellings, at least 20 percent of the dwelling units shall incorporate at least one entrance at grade level and not requiring any steps up or down or a ramp for entry.
- (2) In addition, one of the following additional elements of "universal design" is required:
 - (A) All interior doorways with at least 32-inch wide openings;
 - (B) At least one bathroom with 32-inch counter height;
 - (C) At least one bathroom with wall reinforcements for handrails; and/or
 - (D) All light switches installed between 44 and 48 inches in height.
- (3) For purposes of determining the applicability of the 25 lot threshold, this subsection (I), the Planning and Transportation Director may determine that a proposed subdivision or phase of a subdivision is a part of an earlier, adjacent, subdivision or phase of a subdivision in common or related ownership. If that determination is made, the two subdivisions or phases of subdivisions shall be treated as one, and the requirements of subsection (1) above shall apply to 20 percent of all lots in the two combined subdivisions or phases of subdivisions.

Chapter 20.06: Administration & Procedures

20.06.010 General

(a) Purpose

This Chapter 20.06: identifies the types of permits, approvals, and processes which are required as part of this UDO.

(b) Enforcement

Failure to comply with any provision of this Chapter 20.06; including but not limited to failure to comply with the terms and conditions of any permit or other approval obtained hereunder, shall be a violation of this UDO and shall be subject to the penalties and remedies in Section 20.06.100 (Enforcement and Penalties).

20.06.020 Review and Decision-Making Bodies

(a) Purpose

This 20.06.020 describes the organization, powers, and duties of the offices responsible for the administration of this UDO.

(b) Common Council

(1) Jurisdiction and Authority

The Common Council shall have the following jurisdiction and authority subject to the provisions of this UDO and the applicable provisions of the Indiana Code:

- (A) To initiate, adopt, or reject any amendment to the Official Zoning Map, and to initiate, adopt, amend, or reject any amendment to the text of this UDO in accordance with Indiana Code 36-7-4-600 Series: Zoning Ordinance;
- (B) To adopt, impose reasonable conditions, condition the issuance of a certificate of zoning compliance on the providing of certain assurances, and allow or require the property owner to make written commitments; or reject a Planned Unit Development (PUD) district ordinance in accordance with Indiana Code 36-7-4-1500 Series: Planned Unit Development;
- (C) To initiate, approve, amend, or reject proposed amendments to the City's Comprehensive Plan and its components, including but not limited to the Transportation Plan and the subarea plans; and
- (D) To exercise such other powers and perform such other duties as are allowed by Indiana law in connection with this UDO.

(2) Conflicts

- (A) Pursuant to Indiana Code § 36-7-4-223, a member of the Common Council may not participate in a hearing or decision of the Common Council concerning a zoning matter in which he or she has a direct or indirect financial interest. The Common Council shall enter in its records the fact that its member has such a disqualification. As used in this section, "zoning matter" does not include the preparation or adoption of a Comprehensive Plan.
- (B) A member of the Plan Commission or the Common Council may not directly or personally represent another person in a hearing before the Plan Commission or Common Council concerning a zoning matter.

(c) Plan Commission

(1) Jurisdiction and Authority

The Plan Commission shall have the following jurisdiction and authority subject to the provisions of this UDO and the applicable provisions of the Indiana Code.

- (A) To initiate, hear, review, and certify recommendations to the Common Council on replacement or amendment of the Comprehensive Plan and this UDO, including the Official Zoning Map;
- (B) To hear, review, and make recommendations to the Common Council on the PUD district ordinance and preliminary plan for a proposed Planned Unit Development. When stipulated by the Plan Commission at the time of preliminary approval, to review and approve the final plan for a Planned Unit Development, unless the Plan Commission has delegated that authority to the Planning and Transportation Department;
- (C) To authorize a Hearing Officer pursuant to Indiana Code 36-7-4-923, and to establish rules prescribing and limiting the authority and procedures therefore pursuant to Indiana Code 36-7-4-923 and Indiana Code 36-7-4-924;
- (D) To review and approve or disapprove site plans and amendments to site plans, as required pursuant to Section 20.06.050(a) (Site Plan Review), including the power to approve with conditions, to permit or require commitments, and to require bonding or other financial assurances for public improvements;
- (E) To aid and assist the Common Council and the mayor in implementing the City's adopted Comprehensive Plan and in planning, developing, and completing specific projects;
- (F) To review and report on any matters referred to it by the Common Council or the mayor;
- (G) Upon reasonable written request, to make its special knowledge and expertise available to any official, department, board, or commission of the city to aid them in the performance of their respective duties relating to the planning and development of the city;
- (H) To delegate responsibilities relating to ordinance administration and enforcement to the staff and to other appropriate executive departments and personnel;
- (I) To review and approve or disapprove plats and replats of subdivisions;

- (J) To supervise and make rules for the administration of the affairs of the Plan Commission, including but not limited to adopting and maintaining a schedule of uniform fees for permits, processes and official actions of the Common Council and the Planning and Transportation Department;
- (K) To prescribe uniform rules pertaining to investigations and hearings;
- (L) To keep a complete record of all proceedings;
- (M) To record and file all bonds and contracts and assume responsibility for the custody and preservation of all papers and documents of the Plan Commission;
- (N) To prepare, publish, and distribute reports, ordinances, and other materials relating to the activities authorized under this Chapter 20.06;
- (O) To adopt a seal;
- (P) To certify all official acts of the Plan Commission;
- (Q) To make recommendations to the Common Council or other bodies concerning any other matter within the jurisdiction of the Plan Commission, as authorized by the advisory planning law (Indiana Code 36-7-4: Local Planning and Zoning);
- (R) To approve or delegate the assignment of street numbers to lots and structures and the naming of streets, including renumbering or renaming;
- (S) To authorize a Plat Committee pursuant to Indiana Code 36-7-4-701(e);
- (T) To permit, require, modify, and terminate commitments;
- (U) To hear appeals from final plan decisions by staff; as authorized elsewhere in Indiana Code Title 36; and
- (V) To exercise such other powers and perform such other duties as are allowed by Indiana law in connection with this UDO.

(2) **Membership, Term, and Organization**

The Plan Commission shall be composed as set forth in Chapter 2.13: (Plan Commission) of the Bloomington Municipal Code in accordance with Indiana statute.

(3) **Conflicts**

- (A) Pursuant to Indiana Code § 36-7-4-223, a member of the Plan Commission may not participate in a hearing or decision of the Plan Commission concerning a zoning matter in which he or she has a direct or indirect financial interest. The Plan Commission shall enter in its records the fact that its member has such a disqualification. As used in this section, "zoning matter" does not include the preparation or adoption of a Comprehensive Plan.
- (B) A member of the Plan Commission or the Common Council may not directly or personally represent another person in a hearing before the Plan Commission or Common Council concerning a zoning matter.

(d) **Board of Zoning Appeals**

(1) **Jurisdiction and Authority**

The Board of Zoning Appeals shall have the following jurisdiction and authority subject to the provisions of this UDO:

- (A) To hear and decide upon petitions for development standards variances from this UDO;
- (B) To hear and decide upon petitions for conditional use permits;
- (C) To establish or extend time limitations placed upon variances and conditional uses;
- (D) To permit or require commitments under Indiana Code § 36-7-4-921 as a condition of approval of a variance or conditional use;
- (E) To hear and determine appeals from:
 - i. Any order, requirement, decision, or determination made by an administrative office, Hearing Officer, or staff member under this UDO;
 - ii. Any order, requirement, decision, or determination made by an administrative board or other body except the Plan Commission in relation to the enforcement of this UDO;
 - iii. Any order, requirement, decision, or determination made by an administrative board or other body except the Plan Commission in relation to the enforcement of this UDO requiring the procurement of a certificate of zoning compliance or certificate of occupancy.
- (F) Upon reasonable written request, to make its special knowledge and expertise available to any official, department, board, or commission of the city, to aid them in the performance of their respective duties relating to this UDO and its administration; and
- (G) To exercise such other powers and perform such other duties as are allowed by Indiana law in connection with this UDO.

(2) Membership, Term, and Organization

The Board of Zoning Appeals shall be composed as set out in Chapter 2.15: (Advisory Board of Zoning Appeals) of the Bloomington Municipal Code in accordance with Indiana statute.

(3) Meetings and Procedures

- (A) Meetings of the Board of Zoning Appeals shall be conducted in accordance with the rules established by the Board of Zoning Appeals;
- (B) The Board of Zoning Appeals shall adopt rules of procedure, which may not conflict with this UDO, concerning the:
 - i. Filing of appeals;
 - ii. Petition for variances, and conditional uses;
 - iii. Giving of notice; and
 - iv. Conduct of hearings.
- (C) The Board of Zoning Appeals may also adopt rules of procedure:
 - i. Governing the creation, form, recording, modification, enforcement, and termination of commitments.
 - ii. Designating those specially affected persons and classes of specially affected persons who are entitled to enforce commitments.
- (D) Rules adopted by the Board of Zoning Appeals shall be printed and be made available to all petitioners and other interested persons.

(4) Decisions

The Board of Zoning Appeals shall, in all cases heard by it, make written findings of fact.

(5) Conflicts

- (A) A person shall not communicate with any member of the Board of Zoning Appeals before hearings with intent to influence the member's action on a matter pending before the Board of Zoning Appeals. A member who feels his or her impartiality has been compromised in this manner is allowed to disqualify himself or herself. The staff may, however, file with the Board of Zoning Appeals a written statement setting forth any facts or opinions relating to the matter no less than five days before the hearing.
- (B) A member of the Board of Zoning Appeals shall not participate in a hearing or decision of the Board of Zoning Appeals concerning a zoning matter in which he or she has a direct or indirect financial interest. The Board of Zoning Appeals shall enter in its records the fact that a member has such a disqualification and the name of the alternate member, if such an alternate member is appointed under Section 2.15.030: (Terms of the BMC), who participates in the hearing or decision in place of the regular member.

(e) Planning and Transportation Department

(1) Authority

Pursuant to Chapter 2.14: (Planning and Transportation Department) of the Bloomington Municipal Code, the Planning and Transportation Director or his or her designee (sometimes referred to in this UDO as "staff," unless the staff of another department or agency is clearly indicated) shall be charged with the administration of this UDO and, in particular, shall have the jurisdiction, authority, and duties described in this Chapter 20.06::

- (A) To meet with and counsel those persons maintaining an interest in this UDO, other questions of land use, and related city ordinances, plans, and policies;
- (B) To conduct zoning compliance reviews regarding any permit pertaining to the alteration, erection, construction, reconstruction, moving, division, enlargement, demolition, use or maintenance of lands, buildings or structures, and to issue or refuse to issue certificates of zoning compliance;
- (C) To approve temporary uses requiring administrative approval;
- (D) To review any site plan submitted for such review pursuant to Section 20.06.050(a) (Site Plan Review), which shall include the power to approve with conditions, to permit or require commitments, and to require bonding or other financial assurance for public improvements, and to make decisions or recommendations to the Plan Commission, as appropriate and as authorized in Section 20.06.050(a)(1)(A);
- (E) To make written interpretations of permitted use and other specific provisions of this UDO pursuant to the provisions of Section 20.06.080(c) (Administrative Interpretation);
- (F) To approve, or forward to the Plan Commission, petitions for approval of Planned Unit Development final development plans, which shall include authority to permit or require commitments and impose reasonable conditions, as authorized elsewhere in this UDO;

- (G) If authorized by the Plan Commission, to approve secondary plats of subdivisions pursuant to this UDO;
- (H) In the event an undetected karst feature is formed on a developed lot or parcel, the Planning and Transportation Director may authorize emergency remediation measures subject to guidance from the City Senior Environmental Planner; and
- (I) To exercise such other powers and perform such other duties as are allowed by Indiana law.

(2) Staff Assistance to the Board of Zoning Appeals and Plan Commission

The Planning and Transportation Department shall make staff and consulting assistance available to the Board of Zoning Appeals and the Plan Commission, and to any Hearing Officer or Plat Committee as may be authorized by the Plan Commission in its rules, and shall in that capacity:

- (A) Attend the meetings of each such body;
- (B) Inform each such body of all facts and information at the Planning and Transportation Department's disposal with respect to any matter brought before each such body;
- (C) Assist each such body by performing research and making recommendations on matters brought before each such body; and
- (D) Perform such other duties as may be assigned to the staff by this UDO.

(3) Records

- (A) The staff shall maintain permanent and current records of this UDO, including all maps, amendments, conditional use, site plan, variance and Planned Unit Development approvals and denials, interpretations, and decisions rendered respectively by the Board of Zoning Appeals, the Hearing Officer, the Plan Commission, the Plat Committee, and the staff, together with relevant background files and materials. The records shall be maintained for public inspection in the Planning and Transportation Department.
- (B) The city shall maintain a current geographic information system (GIS). All petitioners shall have the affirmative duty to inform the Planning and Transportation Department in writing of any errors in the GIS maps they receive or have access to as part of the petition process.

(4) Zoning Text and Map

The staff shall prepare and have available for examination in the Planning and Transportation Department:

- (A) The compiled text of this UDO, including all amendments thereto; and
- (B) The Official Zoning Map of this UDO, showing the zoning districts, divisions and classifications, including all amendments thereto.

(5) Receipt, Processing, and Referral of Petitions

The staff shall receive all petitions for any petition, permit, or process required to be filed pursuant to this UDO. Upon receipt of any such petition, the staff shall see to its processing, which may include its prompt referral to and retrieval from each official, department, board or commission of the city, or any other governmental unit or agency with any interest or duty with respect to such petition.

(6) Investigation of Petition

Whenever the Plan Commission, the Board of Zoning Appeals, or the Common Council shall so request, by general rule or specific direction, the staff may conduct or cause to be conducted such surveys, investigations, and field studies and may prepare or cause to be prepared such reports, maps, photographs, charts, and exhibits as may be necessary and appropriate to the processing of any petition filed pursuant to this UDO.

(7) Inspection and Enforcement

To ensure enforcement of this UDO, the staff may initiate investigations and inspections as warranted, and may take all actions necessary and appropriate to abate and redress such violations, pursuant to the provisions of Section 20.06.100 (Enforcement and Penalties).

(8) New Technologies

The Planning and Transportation Department shall be responsible for investigating and evaluating the feasibility of adopting new technologies, such as three-dimensional architectural computer modeling, that will enable it, other city departments, the Plan Commission, Board of Zoning Appeals, and Common Council to make better, more informed decisions about the visual impact that proposed developments will have on surrounding structures.

(f) Floodplain Administrator

(1) Authority

The Floodplain Administrator and/or designated staff is hereby authorized and directed to enforce the provisions of Section 20.04.040 (Floodplain). The Floodplain Administrator is further authorized to render interpretations of Section 20.04.040 (Floodplain), which are consistent with its spirit and purpose.

(2) Duties and Responsibilities

- (A) Review all floodplain development permits to assure that the permit requirements of this UDO have been satisfied;
- (B) Inspect and inventory damaged structures in the SFHA and complete substantial damage determinations;
- (C) Ensure that construction authorization has been granted by the Indiana Department of Natural Resources for all development projects required to receive such authorization and maintain a record of such authorization (either copy of actual permit/authorization or floodplain analysis/regulatory assessment);
- (D) Ensure that all necessary federal or state permits have been received prior to issuance of the floodplain development permit. Copies of such permits/authorizations are to be maintained on file with the floodplain development permit.
- (E) Maintain and track permit records involving additions and improvements to residences located in the floodway;
- (F) Notify adjacent communities and the State Floodplain Coordinator prior to any alteration or relocation of a watercourse, and submit copies of such notifications to FEMA;

- (G) Maintain for public inspection and furnish upon request local permit documents, damaged structure inventories, substantial damage determinations, regulatory flood data, SFHA maps, Letters of Map Change (LOMC), copies of DNR permits, letters of authorization, and floodplain analysis and regulatory assessments (letters of recommendation), federal permit documents, and "as-built" elevation and floodproofing data for all buildings constructed subject to this ordinance;
- (H) Use and enforce all Letters of Map Change (LOMC) or Physical Map Revisions (PMR) issued by FEMA for the currently effective SFHA maps of the community;
- (I) Ensure that maintenance is provided within the altered or relocated portion of said watercourse so that the flood-carrying capacity is not diminished;
- (J) Review certified plans and specifications for compliance;
- (K) Verify and record the actual elevation of the lowest floor (including basement) of all new or substantially improved structures, in accordance with Section 20.06.050(d) (Floodplain Development Permit); and
- (L) Verify and record the actual elevation to which any new or substantially improved structures have been floodproofed in accordance with Section 20.06.050(d) (Floodplain Development Permit).

(g) Hearing Officer

(1) Authority

The Hearing Officer, as may be authorized in the Plan Commission rules of procedure, shall have authority to act upon those matters, if any, delegated by the Plan Commission pursuant to Indiana Code 36-7-4-923, which may include to approve or deny a:

- (A) Variance from this UDO in accordance with Indiana Code 36-7-4-918.5; and
- (B) Conditional use under the terms of this UDO in accordance with Indiana Code 36-7-4-918.2.

(2) Procedures

The Hearing Officer shall review and hear petitions pursuant to procedures adopted by the Plan Commission by rule in accordance with Indiana Code 36-7-4-923 and Indiana Code 36-7-4-924. Where feasible and permissible, those procedures shall allow for the consolidation and simultaneous review of approvals connected with petitions relating to the same site.

(3) Appeals

Any interested person may appeal a decision by the Hearing Officer to the Board of Zoning Appeals within ten days after the decision is made.

(h) Plat Committee

(1) Authority

The Plat Committee, as may be authorized in the Plan Commission Rules of Procedure, shall have authority to act upon those matters, if any, delegated to it by the Plan Commission, pursuant to Indiana Code 36-7-4-701(e), which may include approval or denial of:

- (A) Primary plats;
- (B) Secondary plats;
- (C) Requests for vacation of plats or parts of plats.

(2) **Procedures**

The Plat Committee shall review and hear petitions pursuant to procedures adopted by the Plan Commission by rule.

20.06.030 Summary Table of Review Procedures

Table 06-1 lists the development petitions authorized by this UDO, whether public notice is required, whether pre-submittal activities are required, and the role of City review and decision-making bodies.

Table 06-1: Summary Table of Review Procedures

R = Review and Recommendation D = Decision A = Appeal * = Public Hearing Required

Procedure	UDO Section	Public Notice			Pre-Submittal Activities			Review and Decision-Making Bodies						
		Published	Mailed	Posted	Pre-Submittal Meeting	DRC Meeting	Neighborhood Meeting	Staff	Plan Commission	Plat Committee	Board of Zoning Appeals	Common Council	Hearing Officer	Historic Preservation Commission
Development Permits and Procedures														
Site Plan Review, Minor	20.06.050(a)				✓			D	A					
Site Plan Review, Major	20.06.050(a)	✓	✓	✓	✓	✓	✓	R	D*					
Conditional Use Permit	20.06.050(b)	✓	✓	✓	✓			R			D*/A		D*	
Demolition Delay Permit	20.06.050(c)			✓	✓			R						D
Floodplain Development Permit	20.06.050(d)							D						
Site Development/Grading Permit	20.06.050(e)							D						
Certificate of Zoning Compliance	20.06.050(f)							D						
Certificate of Occupancy	20.06.050(g)							D						
Certificate of Final Acceptance	20.06.050(h)							D						
Certificate of Nonconforming Use	20.06.050(i)							D						
Sign Permit	20.06.050(j)							D						
Temporary Use Permit	20.06.050(k)							D						
Easements	20.06.050(l)	See 20.06.050(l) (Easements)												
Subdivision Procedures														
Primary Plat	20.06.060(b)	✓	✓	✓	✓	✓		R	D*/A	D*				

Table 06-1: Summary Table of Review Procedures

R = Review and Recommendation D = Decision A = Appeal * = Public Hearing Required

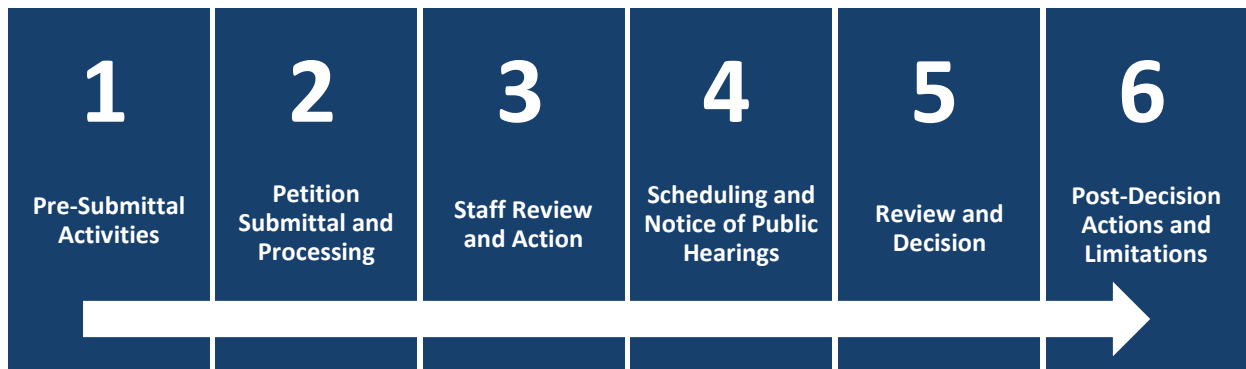
Procedure	UDO Section	Public Notice			Pre-Submittal Activities			Review and Decision-Making Bodies						
		Published	Mailed	Posted	Pre-Submittal Meeting	DRC Meeting	Neighborhood Meeting	Staff	Plan Commission	Plat Committee	Board of Zoning Appeals	Common Council	Hearing Officer	Historic Preservation Commission
Secondary Plat	20.06.060(c)							R / D	D/A	D				
Vacating Plat	20.06.060(d)	✓	✓	✓	✓	✓		R	D*/A	D*				
Plan/Ordinance Amendments														
Comprehensive Plan Amendment	20.06.070(a)	✓						R	R*			D*		
Zoning Map Amendment	20.06.070(b)	✓	✓	✓	✓	✓	✓	R	R*			D*		
Rezoning to Planned Unit Development (PUD)	20.06.070(c)	✓	✓	✓	✓	✓	✓	R	R*			D*		
Zoning Text Amendment	20.06.070(d)	✓	✓		✓			R	R*			D*		
Flexibility and Relief Procedures														
Minor Modification	20.06.080(a)				✓			As required for associated petition						
Variance	20.06.080(b)	✓	✓	✓	✓			R			D*/A		D*	
Administrative Interpretation	20.06.080(c)							D			A			
Administrative Appeal	20.06.080(d)	✓	✓					R			D*			

20.06.040 Common Review Procedures

(a) General

- (1) The common review procedures in this Section 20.06.040 provide the foundation for specific review and approval procedures identified in Section 20.06.050 through Section 20.06.080. The common review procedures are illustrated in Figure 06.04-1. Tailored versions of this illustration appear in each of the specific petition types.
- (2) Not all common review procedures apply to every development petition type. Sections 20.06.050 through Section 20.06.080 identify how these common review procedures are applied to specific petition types, and identify additional procedures and requirements beyond the common review procedures.

Figure 06.04-1: Summary of General Order of Review Steps if Public Hearing Required

**(b) Pre-Submittal Activities****(1) Pre-Submittal Meeting****(A) Purpose**

The pre-submittal meeting is intended to provide an opportunity for the petitioner to meet with city staff to review the zoning classification of the site, the regulatory ordinances and materials, the procedures, and examine the proposed use and development of the property. The staff shall aid and advise the petitioner in preparing the petition and supporting documents as necessary. This meeting shall take place on or prior to the pre-submittal meeting deadline as listed on the schedule of meeting dates.

(B) Applicability

A pre-submittal meeting shall be required as indicated in Table 06-1: Summary Table of Review Procedures.

(C) Procedure

The petitioner shall submit a request for a pre-submittal meeting to Planning and Transportation Department staff.

(D) Effect

Any information or discussions held at the pre-submittal meeting shall not be binding on the city or the petitioner. Discussions of potential conditions or commitments to mitigate impacts do not reflect actions by the decision-making body until and unless a decision-making body takes formal action to attach that condition or commitment to an approval.

(2) Development Review Committee (DRC) Meeting**(A) Purpose**

The Development Review Committee (DRC) meeting is intended to provide an opportunity for city staff from several departments to discuss details and potential impacts of the proposed project, and to establish points of contact. The staff shall advise the petitioner in preparing the petition and supporting documents as necessary. The petitioner or petitioner's representative is required to attend the DRC meeting.

(B) Applicability

A DRC meeting shall be required as indicated in Table 06-1: Summary Table of Review Procedures.

(C) Procedure

- i. The petitioner shall refer to the schedule of meeting dates in the Administrative Manual to determine the filing deadline for any given meeting of the DRC. Incomplete submittal information may result in the petition being postponed from the DRC agenda to allow the petitioner sufficient time to complete the submittal.
- ii. The staff shall inform the petitioner of the time, date, and place of the DRC meeting.

(D) Effect

Any information or discussions held at the DRC meeting shall not be binding on the city or the petitioner. Discussions of potential conditions or commitments to mitigate impacts do not reflect actions by the decision-making body until and unless a decision-making body takes formal action to attach that condition or commitment to an approval.

(3) Pre-Submittal Neighborhood Meeting**(A) Purpose**

The purpose of the pre-submittal neighborhood meeting is to allow residents, businesses, and organizations in the area surrounding a proposed development project an early opportunity to learn about the project details and to provide feedback to the petitioners before significant funds have been spent on project design and engineering.

(B) Applicability

A pre-submittal neighborhood meeting shall be required as indicated in Table 06-1: Summary Table of Review Procedures.

(C) Notification

- i. The petitioner shall send a written notification of the required pre-submittal neighborhood meeting to the Planning and Transportation Department and neighborhood associations on record with the city that have boundaries within a 500-foot radius of the boundaries of the proposed project site, at least 10 days prior to the meeting date.
- ii. If the parties receiving notice do not respond, and as a result a pre-submittal neighborhood meeting cannot be scheduled, the petitioner may file the petition and the city may conduct the review procedures established in this UDO.

(D) Meeting Specifics

- i. City staff may attend the pre-submittal neighborhood meeting but are not required to attend nor facilitate the meeting.
- ii. The petitioner shall present information about the proposed land uses, dimensional standards, location of buildings, and overall site layout and design. Detailed engineering is not required. The material presented shall be adequate to describe the project features without the need for the petitioner to have retained architects, engineers, or consultants before this meeting.

- iii. If a pre-submittal neighborhood meeting is required, and subsequent petition submittals show that the proposed development is larger, taller, or contains significantly different land uses than those presented at the neighborhood meeting, the Planning and Transportation Director may require that an additional neighborhood meeting be held before the petition is accepted.

(E) Requirements for Petition Submittal

- i. Details of the pre-submittal neighborhood meeting, including proof of notification, a meeting summary, and a list of meeting attendees, as well as copies of any exhibits used at the meeting, shall be provided to the Planning and Transportation Department along with the project petition.
- ii. Any petition, permit, or process included in this Chapter 20.06: (Administration & Procedures) shall be filed with the Planning and Transportation Department within 180 days after any pre-submittal neighborhood meeting has been held. If no petition is filed during that period, the Planning and Transportation Director may require that another pre-submittal neighborhood meeting be held before the petition will be accepted.

(c) Petition Submittal and Processing

(1) Authority to Submit a Petition

- (A) No petition shall be submitted prior to completing required pre-submittal requirements as indicated in Table 06-1: Summary Table of Review Procedures.
- (B) Unless expressly stated otherwise in this UDO, petitions, permits, or processes under this UDO shall be submitted by:
 - i. The owner, contract purchaser, or any other person having a recognized property interest in the land on which development is proposed within the City; or
 - ii. A person authorized to submit the petition on behalf of the owner, contract purchaser, or other person having a recognized property interest in the land, as evidenced by a letter or document signed by the owner or contract purchaser.
 - iii. The owner of at least 50 percent of the land involved may initiate a zoning map amendment for that land.
- (C) Notwithstanding subsections (A) and (B) above, the Plan Commission and/or Common Council may initiate any action permitted by Indiana Code and other applicable laws.

(2) Petition Submittal Requirements

- (A) Each petition shall include all forms and information required by the city for that type of petition as indicated below:
 - i. Required petition materials as provided in the City's Administrative Manual, as those lists may be updated by the Planning and Transportation Department from time to time to reflect best practices.
 - ii. If the proposal is for a project to be developed in phases the petition shall be for all permits and approvals required for that phase of the project.

- (B) The Planning and Transportation Director may waive certain submittal requirements in order to reduce the burden on the petitioner and to tailor the requirements to the information necessary to review a particular petition. The Planning and Transportation Director may waive such requirements upon finding that the project size, complexity, anticipated impacts, or other factors associated with the proposed development clearly, in his or her opinion, support such waiver. Any such waivers shall be authorized in writing and retained in the project file.

(3) Payment of Fees

- (A) City staff shall maintain an official fee schedule for any petition, permit, or process included in this Chapter 20.06: (Administration & Procedures). Such fees shall be approved by the Plan Commission and, where applicable, the Common Council. The official fee schedule shall be available to the public in the Planning and Transportation Department Office.
- (B) Fees shall be paid at the Planning and Transportation Department office at the time of petition submittal. When the Planning and Transportation Department has received a complete submittal, the staff shall calculate the total amount of the application fee and any other applicable fees. All payments shall be made to the City of Bloomington.
- (C) Until all applicable fees, charges, and expenses have been paid in full, no action shall be taken on any petition, subdivision request, or permit.
- (D) No application fees shall be required for any petition or permit by a not-for-profit community service organization with a current 501(c)(3) federal tax exemption or unit of government.
- (E) The Plan Commission may waive the application fee for any proposal that is actively being promoted by a unit of local government or quasi-public organization or that involves a local subsidy.
- (F) No refunds shall be permitted after a Plan Commission or Plat Committee hearing on the petition has been held, regardless of whether or not the Plan Commission or Plat Committee has taken action on the petition.

(4) Completeness of Petition

- (A) On receiving a petition, the Planning and Transportation Director shall determine whether the petition is complete. A complete petition is one that contains all information and materials required by the Administrative Manual and this UDO for submittal of the particular petition, and that has sufficient detail and readability to evaluate the petition for compliance with applicable review standards of this UDO.
- (B) No petition shall be considered complete until all pre-submittal requirements of Section 20.06.040(b) have been satisfied and all required fees have been paid.
- (C) Upon determining that the petition is incomplete, the Planning and Transportation Director or designee, shall notify the petitioner of the submittal deficiencies. The petitioner may correct the deficiencies and resubmit the petition for a determination of completeness until the Planning and Transportation Director determines the petition is complete.
- (D) No development petition shall be reviewed for compliance with this UDO or scheduled for a public hearing by any review or advisory body until it is determined to be complete.

- (E) Upon determining that the petition is complete, the Planning and Transportation Director shall accept the petition for review in accordance with the procedures and standards of this Chapter 20.06: Administration & Procedures.

(5) Minor Petition Revisions

- (A) A petitioner may revise a petition after receiving Notice of Compliance deficiencies following staff review according to 20.06.040(d), or upon requesting and receiving permission from an advisory or decision-making body after that body has reviewed, but not yet taken action on, the petition.
- (B) Revisions shall be limited to changes that directly respond to specific requests or suggestions made by staff or the advisory or decision-making body, as long as they constitute only minor additions, deletions, or corrections and do not include significant substantive changes to the development proposed in the petition, as determined by the Planning and Transportation Director.
- (C) All other petition revisions shall be processed as a new petition.

(6) Abandoned Petitions

If a petition has not been resubmitted to address staff-noted deficiencies within 90 days after notification of those deficiencies, the petition shall be deemed abandoned and all fees forfeited. The petitioner may request an additional 90 days to address staff-noted deficiencies. Restarting an abandoned petition shall require a new pre-submittal meeting and may be subject to additional fees.

(7) Petition Withdrawal

- (A) After a petition has been accepted, the petitioner may withdraw the petition by submitting a notarized letter to the Planning and Transportation Director before the city takes action by a vote of the decision-making body or by rendering an administrative decision.
- (B) A petitioner is not entitled to a refund of application fees for withdrawn petitions. However, the Planning and Transportation Director may refund fees not expended during the first round of staff review if the petition is withdrawn prior to preparation of any official written comments.

(8) Simultaneous Review and Approval

- (A) Whenever a petition requires review under the provisions of more than one permit, approval, or process, the staff may schedule the review procedures and hearings so that review for each different permit, approval, or process can be scheduled on the same agenda, to the extent practicable.
- (B) Some forms of approval depend on the petitioner having previously received another form of approval or require the petitioner to take particular action within some time period following the approval in order to avoid having the approval lapse. Therefore, even though this UDO intends to accommodate simultaneous processing, petitioners should note that each of the permits and approvals set forth in this UDO has its own timing and review sequence, and so as a result, concurrent filings are not guaranteed to expedite the respective timing and review sequences of any particular permit or approval.

(9) Authorization of Site Inspection

By submitting a petition, the petitioner is authorizing city staff to inspect the subject property being considered for development at any reasonable time to obtain the information required for review of compliance with this UDO.

(10) Examination of Petition and Other Documents

Upon reasonable request, and during normal business hours, any person may examine a petition and materials submitted in support of, or in opposition to, a petition in the Planning and Transportation Department office.

(d) Staff Review and Action

(1) Referral to Staff and Review Agencies

The Planning and Transportation Director shall distribute the complete petition to appropriate staff and appropriate review agencies, per the Administrative Manual.

(2) Petition Routing**(A) Referral to Plan Commission**

- i. If Table 06-1: Summary Table of Review Procedures authorizes staff or the Plat Committee to make a decision, and the Planning and Transportation Director determines that the application is unusually complex or raises potentially unique or serious impacts on the city or the surrounding neighborhoods, the Planning and Transportation Director may, refer the petition to the Plan Commission for decision pursuant to the same criteria that the staff or the Plat Committee would have been required to apply to that petition.
- ii. In cases where the Planning and Transportation Director refers the decision to the Plan Commission, all applicable noticing requirements per Section 20.06.040(e) (Scheduling and Notice of Public Hearings) shall apply.

(B) Referral to Board of Zoning Appeals

- i. If Table 06-1: Summary Table of Review Procedures authorizes the Hearing Officer to make a decision, and the Hearing Officer determines that the application is unusually complex or raises potentially unique or serious impacts on the city or the surrounding neighborhoods, the Hearing Officer may refer the decision to the Board of Zoning Appeals for a decision pursuant to the same criteria that the Hearing Officer would have been required to apply to that decision.
- ii. In cases where the Hearing Officer refers the decision to the Board of Zoning Appeals, all applicable noticing requirements per Section 20.06.040(e) (Scheduling and Notice of Public Hearings) shall apply.

(3) Staff Review and Petition Revisions

Staff shall review the petition and shall consult with applicable city departments and participating reviewing agencies with jurisdiction over public health and safety or required public services. Staff shall submit recommendations and comments to the petitioner in a form established by the Planning and Transportation Director. The petitioner shall attend a meeting with the appropriate staff as determined by the Planning and Transportation Director to discuss staff and/or DRC recommendations and comments. The petition will not move forward for further review until the Planning and Transportation Director determines that the petitioner has adequately responded to the City's recommendations and comments, or the petitioner requests that the petition move forward without responding to the City's recommendations and comments.

(4) Petitions Subject to Staff Recommendation**(A) Staff Report**

If a petition is subject to staff review and recommendation to another review and decision-making body as indicated in Table 06-1: Summary Table of Review Procedures, staff shall prepare a written staff report that summarizes the proposal, findings, and recommendations.

(B) Distribution and Availability of Petition and Staff Report

The Planning and Transportation Director shall submit a copy of the staff report to the petitioner and the advisory and/or decision-making body, and shall make the staff report and related materials available for public review prior to the public meeting or public hearing at which the petition is scheduled to be heard.

(5) Petitions Subject to Staff Decision

(A) If a petition is subject to staff review and a final decision by the Planning and Transportation Director, the Planning and Transportation Director shall make a decision based on the review standards applicable to the petition type. The decision shall be in writing and shall clearly state reasons for a denial, conditions of approval, or commitments.

(B) Any appeal of an administrative decision shall be made pursuant to Section 20.06.080(d) (Administrative Appeal).

(6) Approval Criteria**(A) Applicability**

- i. When Sections 20.06.050 through 20.06.080 cross-reference this Section 20.06.040(d)(6), city review and decision-making bodies shall review all petitions submitted pursuant to this UDO for compliance with the general review criteria stated below.
- ii. The petition may also be subject to additional review criteria specific to the type of petition, as set forth in Sections 20.06.050 through Section 20.06.080.
- iii. If there is a conflict between the general review criteria in this section and the specific review criteria in Sections 20.06.050 through Section 20.06.080, the applicable review criteria in Sections 20.06.050 through Section 20.06.080 shall control.

(B) General Compliance Criteria

All petitions shall be subject to review pursuant to the following criteria and shall only be approved if they comply with these criteria.

i. Compliance with this UDO

The proposed use and development shall comply with all applicable standards in this UDO, unless the standard is lawfully modified or varied. Compliance with these standards is applied at the level of detail required for the subject submittal.

ii. Compliance with Other Applicable Regulations

The proposed use and development shall comply with all other city regulations and with all applicable regulations, standards, requirements, or plans of the federal or state governments and other relevant entities with jurisdiction over the property or the current or proposed use of the property. This includes, but is not limited to, floodplain, water quality, erosion control, and wastewater regulations.

iii. Compliance with Utility, Service, and Improvement Standards

1. As applicable, the proposed use and development shall comply with federal, state, county, service district, city, and other regulatory authority standards, and design/construction specifications for roads, access, drainage, water, sewer, schools, emergency/fire protection, and similar standards.
2. Municipal sewer and water hookup are required for all developments except for instances where written approvals by the City Utilities Department and the County Health Department grant an exception to the hookup requirement. All sewer and water facilities shall meet the design specifications of the City Utilities Department.
3. When public improvements are required, the petitioner or authorized representative shall post performance and maintenance guarantees for such improvements. Such financial guarantees shall be submitted, reviewed, and approved per 20.06.060(c)(3)(E)iii (Financial Bond Required).

iv. Compliance with Prior Approvals

The proposed use and development shall be consistent with the terms and conditions of any prior land use approval, plan, or plat approval for all or part of the property that is in effect and not proposed to be changed. This includes consistency with any approved phasing plan for development and installation of public improvements and amenities.

(C) Additional Criteria Applicable to Conditional Uses**i. Consistency with Comprehensive Plan and Other Applicable Plans**

The proposed use and development shall be consistent with and shall not interfere with the achievement of the goals and objectives of the Comprehensive Plan and any other applicable adopted plans and policies.

ii. Provides Adequate Public Services and Facilities

Adequate public service and facility capacity shall exist to accommodate uses permitted under the proposed development at the time the needs or demands arise, while maintaining adequate levels of service to existing development. Public services and facilities include, but are not limited to, streets, potable water, sewer, stormwater management structures, schools, public safety, fire protection, libraries, and vehicle/pedestrian connections and access within the site and to adjacent properties.

iii. Minimizes or Mitigates Adverse Impacts

1. The proposed use and development shall not result in the excessive destruction, loss or damage of any natural, scenic, or historic feature of significant importance.
2. The proposed development shall not cause significant adverse impacts on surrounding properties nor create a nuisance by reason of noise, smoke, odors, vibrations, or objectionable lights.
3. The hours of operation, outside lighting, and trash and waste collection shall not pose a hazard, hardship, or nuisance to the neighborhood.
4. The petitioner shall make a good-faith effort to address concerns of the adjoining property owners in the immediate neighborhood as defined in the pre-submittal neighborhood meeting for the specific proposal, if such a meeting is required.

iv. Rational Phasing Plan

If the petition involves phases, each phase of the proposed development shall contain all of the required streets, utilities, landscaping, open space, and other improvements that are required to comply with the project's cumulative development to date and shall not depend upon subsequent phases for those improvements.

(D) Additional Criteria Applicable to Primary Plats and Zoning Map Amendments (Including PUDs)**i. Consistency with Comprehensive Plan and Other Applicable Plans**

The proposed use and development shall be consistent with and shall not interfere with the achievement of the goals and objectives of the Comprehensive Plan and any other adopted plans and policies.

ii. Consistent with Intergovernmental Agreements

The proposed use and development shall be consistent with any adopted intergovernmental agreements and shall comply with the terms and conditions of any intergovernmental agreements incorporated by reference into this UDO.

iii. Minimization or Mitigation of Adverse Impacts

1. The proposed use and development shall be designed to minimize negative environmental impacts and shall not cause significant adverse impacts on the natural environment. Examples of the natural environment include water, air, noise, stormwater management, wildlife habitat, soils, and native vegetation.
2. The proposed use and development shall not result in the excessive destruction, loss or damage of any natural, scenic, or historic feature of significant importance.

3. The proposed use and development shall not result in significant adverse fiscal impacts on the city.
4. The petitioner shall make a good-faith effort to address concerns of the adjoining property owners in the immediate neighborhood as defined in the pre-submittal neighborhood meeting for the specific proposal, if such a meeting is required.

iv. Adequacy of Road Systems

1. Adequate road capacity must exist to serve the uses permitted under the proposed development, and the proposed use and development shall be designed to ensure safe ingress and egress onto the site and safe road conditions around the site, including adequate access onto the site for fire, public safety, and EMS services.
2. The proposed use and development shall neither cause undue traffic congestion nor draw significant amounts of traffic through residential streets.

v. Provides Adequate Public Services and Facilities

Adequate public service and facility capacity shall exist to accommodate uses permitted under the proposed development at the time the needs or demands arise, while maintaining adequate levels of service to existing development. Public services and facilities include, but are not limited to, streets, potable water, sewer, stormwater management structures, schools, public safety, fire protection, libraries, and vehicle/pedestrian connections and access within the site and to adjacent properties.

vi. Rational Phasing Plan

If the petition involves phases, each phase of the proposed development shall contain all of the required streets, utilities, landscaping, open space, and other improvements that are required to comply with the project's cumulative development to date and shall not depend upon subsequent phases for those improvements.

(7) Conditions of Approval

- (A) Where this UDO authorizes a review body to approve or deny a petition subject to applicable criteria, the review body may approve the petition with conditions necessary to bring the proposed development into compliance with this UDO or other regulations, or to mitigate the impacts of that development on the surrounding properties and streets.
- (B) All conditions of approval shall be reasonably related to the anticipated impacts of the proposed use or development or shall be based upon standards duly adopted by the city. Such conditions may include those necessary to carry out the purpose and intent of the Comprehensive Plan, other adopted city plans, and this UDO.
- (C) No conditions of approval shall be less restrictive than the requirements of this UDO, except where the UDO expressly allows deviations.
- (D) Any condition of approval that requires a petitioner to dedicate land or pay money to a public entity in an amount that is not calculated according to a formula applicable to a broad class of petitioners shall be roughly proportional both in nature and extent to the anticipated impacts of the proposed development, as shown through an individualized determination of impacts.

- (E) During its consideration, the decision-making body may consider alternative potential conditions, and no discussion of potential conditions shall be deemed an attempt or intent to impose any condition that would violate the federal or state constitutions, statutes, or regulations. Discussions of potential conditions to mitigate impacts do not reflect actions by the decision-making body unless and until the decision-making body takes formal action to attach that condition to a development approval.
- (F) Unless otherwise provided in this UDO, any representations of the petitioner in submittal materials or during public hearings shall be binding as conditions of approval.
- (G) Any conditions shall be listed in or attached to the approval document, and violation of any approved condition shall be a violation of this UDO.

(8) Commitments

(A) Authority

The final review body of the petition types listed below may allow or require the owner of a parcel of real property to make a written commitment concerning use and/or development of that parcel where the making of such commitment will further the goals of the Comprehensive Plan or this UDO:

- i. Site plan review, minor;
- ii. Site plan review, major;
- iii. Conditional use permit;
- iv. Zoning map amendment;
- v. Rezoning to Planned Unit Development (PUD); and
- vi. Variance.

(B) Approval Procedure

The procedure by which the final review body allows or requires a written commitment shall be the same as the procedure set forth in this UDO for the underlying development or ordinance proposal, but no additional notice or hearing shall be required for the consideration or approval of a commitment.

(C) Recording

A commitment established under this UDO shall be recorded in the County Recorder's office upon approval of the proposal and prior to issuance of any Certificates of Zoning Compliance for the area involved in the proposal. The petitioner shall deliver one copy of the recorded commitment instrument to the Planning and Transportation Department within 10 business days after recording.

(D) Effect of Commitments

A commitment made under this UDO takes effect upon approval of the proposal (i.e., adoption of an ordinance changing the zoning map, designating a Planned Unit Development zoning district, or approval of a final plan) in connection with which the commitment is made. An unrecorded commitment is binding upon the owner of the parcel but is only binding upon a subsequent owner or other person acquiring an interest in the parcel if that person has actual notice of the commitment. A recorded commitment is binding upon any subsequent owner and any person acquiring an interest in the parcel.

(E) Right to Enforce Commitments

- i. The city may enforce any commitment allowed or required by the decision-making body as if the commitment were a standard of the UDO.
- ii. A written commitment shall be enforceable by any property owner adjacent to the parcel of real estate that was the subject of the underlying petition in connection with which the commitment was made, or other interested party as defined by the applicable rules of procedure.

(F) Modification or Termination

- i. The Plan Commission shall not delegate the authority to modify or terminate a commitment to another entity.
- ii. The Hearing Officer may not modify or terminate any commitment, whether made by the Hearing Officer or under Indiana Code section 36-7-4-1015, as amended. Commitments made by the Hearing Officer may be only modified by the Board of Zoning Appeals.
- iii. When a commitment has been allowed or required in conjunction with a petition under this UDO, either the petitioner, a subsequent owner of the parcel, or a person who acquires an interest in the parcel may apply to the Plan Commission for modification or termination of the commitment.
- iv. The Plan Commission may approve modification or termination after notice and public hearing in any case where the modification or termination will further the goals of the Comprehensive Plan or this UDO.
- v. The petitioner shall record the modification or termination instrument in the Office of the Monroe County Recorder. The petitioner shall deliver one copy of the recorded modification or termination instrument to the Planning and Transportation Department within 10 business days after recording. No Certificate of Zoning Compliance for the area involved in the proposal may be issued until the modification or termination instrument has been recorded.

(e) Scheduling and Notice of Public Hearings

(1) Scheduling

- (A) When the staff determines that a petition is complete and that a public hearing is required as indicated in Table 06-1: Summary Table of Review Procedures, the staff shall place the item on the next agenda with space available pursuant to the rules of procedure of the appropriate decision-making body.
- (B) The public hearing shall be scheduled to allow sufficient time to prepare a staff report per 20.06.040(d).

(2) Public Hearing Notice**(A) General Notice Requirements**

All public hearings required by this UDO shall be preceded by the notices identified in Table 06-1: Summary Table of Review Procedures and in accordance with Indiana Code § 5-3-1-2 and Indiana Code § 36-7-4-604 and Indiana Code § 36-7-4-706, as amended. Persons with specific issues or concerns regarding a proposed petition are encouraged to contact the Planning and Transportation Department in writing, by phone, or in person prior to the hearing.

(B) Responsibility for Notice

The City shall be responsible for the accuracy of and proper publication of notice of the public hearing. The petitioner shall be responsible for mailing and posting of notice of the public hearing and maintaining posted notices after they have been posted on the site.

(C) Notice Content

All required notices shall state:

- i. The time and place of the hearing;
- ii. The geographic areas (or zoning districts in a specified geographic area) to which the proposal applies; or the geographic area that is the subject of the zoning map change;
- iii. A summary of the subject matter contained in the proposal; or a summary of the subject matter contained in the proposal that describes any new or changed provisions; or a description of the proposed change in the zoning maps;
- iv. If the proposal contains or would add or amend any penalty or forfeiture provisions, the entire text of those penalty or forfeiture provisions;
- v. The place where a copy of the proposal is on file for examination before the hearing;
- vi. That written objections to the proposal that are filed with the secretary of the commission before the hearing will be considered;
- vii. That oral comments concerning the proposal will be heard; and
- viii. That the hearing may be continued from time to time as may be found necessary.

(D) Notice to Interested Parties

All public hearings required by this UDO or by state law shall be sent to interested parties in accordance with the following:

- i. "Interested parties" shall include the following:

1. All persons owning land within 300 linear feet from the subject parcel(s) for which a petition or proposal is being requested. Where property included in the petition abuts or includes a county line (or a county line street or road or county line body of water), then all owners of real property to a depth of two ownerships or one-eighth of a mile into the adjacent county, whichever is less, shall be interested parties.
2.
 - [a] Intervening public rights-of-way shall not be considered in determining what property is adjacent and contiguous.
 - [b] Where any adjacent or contiguous parcel is owned by a petitioner, the property included in the petition shall be deemed to include said adjacent parcel or parcels owned by a petitioner.
 - [c] Owners of property adjacent and contiguous to parcel(s) owned by a petitioner but not included in the petition shall be considered interested parties entitled to notice.
- ii. In order to determine the names and addresses of property owners to whom notice shall be sent, staff shall consult either the current Plat Book and computerized ownership records located in the Office of the Auditor of Monroe County, Indiana or the Monroe County, Indiana Geographic Information System to determine the name of each adjacent property owner and address.
- iii. A good faith effort shall be made to investigate and resolve any discrepancies or omissions in or among such records in order to determine name and address of the current owner of record.

(E) Notice to Adjacent Governmental Entities

In a proceeding involving a petition for property that abuts unincorporated areas of the county, copies of the notice of public hearing shall be transmitted by the city to the planning agency of the governmental unit abutting such land.

(3) Notice Format and Timeframes

(A) Published Notice

Published notice shall be distributed in a newspaper in accordance with Indiana Code § 5-3-1: Publication Procedures, at least 10 days prior to the initial scheduled public hearing before the Plan Commission, Board of Zoning Appeals, Plat Committee, or Hearing Officer.

(B) Mailed Notice

Mailed notices shall be postmarked and sent via first class mail to all interested parties at least 10 days before the date of the initial scheduled public hearing before the Plan Commission, Plat Committee, Hearing Officer, or Board of Zoning Appeals.

i. Proof of Notice

The Planning and Transportation Department shall retain proof of notice within the petition file pursuant to the Administrative Manual.

ii. Verification of Proper Notice

City staff shall verify proper noticing pursuant to the Administrative Manual and shall advise the decision-making body at its initial public hearing of any omissions or deficiencies in the proof of notice.

iii. Inadequate Notice

If adequate notice in accordance with this section is not given to the interested parties, and this fact is confirmed by staff prior to action by the decision-making body, such petition may be continued to a later date to allow proper notice to all interested parties.

(C) Posted Notice

- i. Required posted notice shall include at least one sign per street frontage on the subject property at least 21 days prior to the scheduled public hearing before the Plan Commission or Board of Zoning Appeals and at least 10 days prior to the scheduled public hearing before the Plat Committee or Hearing Officer.
- ii. The required sign(s) shall be clearly visible from adjacent streets or public rights-of-way and shall remain on the property until after the hearing.

(4) Minor Defects in Notice Shall Not Invalidate Proceedings

- (A) Minor defects in any notice shall not impair the notice or invalidate proceedings pursuant to the notice if a bona fide attempt has been made to comply with applicable notice requirements.
- (B) Minor defects in notice shall be limited to errors in a legal description or typographical or grammatical errors that do not impede communication of the notice to affected parties.
- (C) In all cases, however, the requirements for the timing of the notice and for specifying the time, date, and place of a hearing shall be strictly construed.

(f) Appearance Waives Defects

Appearance at any hearing on a petition or proposal, in person or by representative, shall waive any defect in notice unless the alleged defect is raised at the beginning of the hearing.

(g) Review and Decision

(1) Hearing, Review, and Decision

- (A) The petition shall be subject to review, hearings, recommendations, and decisions as indicated in Table 06-1: Summary Table of Review Procedures.
- (B) If the petition is subject to a public hearing, the applicable review or decision-making body shall hold a public hearing in accordance with Section 20.06.040(e) (Scheduling and Notice of Public Hearings).
- (C) The applicable review or decision-making body shall consider the following:
 - i. The written statement and supportive material submitted by the petitioner;
 - ii. Any commitments or conditions of approval attendant to prior approvals;
 - iii. The testimony of the petitioner;

- iv. The testimony of the public during the public hearing, when applicable;
- v. Any requirements of the members of the Development Review Committee;
- vi. The Planning and Transportation Department report; and
- vii. Such other additional information as may be required by the review or decision-making body to evaluate the petition.

- (D) The applicable review or decision-making body shall approve, approve with conditions, or deny the petition based on the applicable approval criteria listed in the petition-specific procedures in Sections 20.06.050 through 20.06.080. The review or decision-making body may also continue the hearing in accordance with the review or decision-making body's adopted rules and procedures.
- (E) If the review involves a quasi-judicial hearing, the recommendation or decision (as applicable) shall be based only on the record of the public hearing; shall be in writing; shall include findings of fact based on competent, material, and substantial evidence presented at the hearing; shall reflect the determination of contested facts; and shall state how the findings support compliance with applicable review standards.
- (F) The review or decision-making body may incorporate or require, as part of a condition of approval or commitment, a written agreement between the petitioner and the city that enforces the conditions or commitments. All conditions and commitments shall comply with the limitations in Section 20.06.040(d)(7) (Conditions of Approval) and 20.06.040(d)(8) (Commitments), as applicable.
- (G) The applicable review or decision-making body shall clearly state the factors considered in making its recommendation or decision, as well as the basis or rationale for the recommendation or decision.

(2) **Public Hearing Procedures**

Whenever a public hearing is required by this UDO or by state law, the following public hearing procedures shall apply:

(A) **Attendance**

The petitioner is required to be present at the public hearing to address and discuss comments and concerns posed by the review or decision-making body. Failure to appear shall result in the petition's being dealt with as outlined in the review or decision-making body's rules of procedure.

(B) **Actions by Review or Decision-Making Bodies and Officers**

All decisions shall include a brief summary of the matter being acted upon, and a clear statement of approval, approval with conditions, or disapproval. Conditions of approval and commitments shall be clearly stated and enumerated.

i. **Action by Board of Zoning Appeals**

Action by the Board of Zoning Appeals shall be final.

ii. Action by Plan Commission

In the instance where the Plan Commission has final authority, action by the Plan Commission shall be final. When the Plan Commission action is advisory to the Common Council, the Planning and Transportation Director shall certify the Plan Commission recommendation to the Common Council pursuant to Indiana Code § 36-7-4: Local Planning and Zoning. When the Plan Commission action is advisory to any other body or agency, the staff shall forward such recommendation to that body or agency.

iii. Action by Common Council

The Common Council shall act on any petition forwarded by the Plan Commission within the time period specified and, in the manner, set forth in Indiana Code § 36-7-4: Local Planning and Zoning. Additionally, the mayor may exercise his or her authority to veto an action of the Common Council pursuant to Section 2.04.350 (Veto Procedure) of the Bloomington Municipal Code. The Common Council may override a mayoral veto pursuant to Section 2.04.350(d) of the Bloomington Municipal Code.

(h) Post-Decision Actions and Limitations

(1) Expiration of Approval

- (A) A petition approval shall be valid as authorization for the approved activity unless it expires in accordance with expiration time periods provided in this UDO.
- (B) A change in ownership of the land shall not affect the established expiration time period of an approval.
- (C) The original decision-making body may grant extensions of the expiration time period for up to one year, following a written request that explains reasonable cause for such extension, prior to the expiration date. The final approval authority shall determine whether or not there is reasonable cause for the requested extension. Further extensions shall be subject to the approval of the decision-making body for the original petition.

(2) Bound by Submissions

A recipient of any permit or other approval under this UDO shall be bound by the representations and information submitted in the original petition and in any revision, amendment, or supplement to the original petition that is provided to the reviewing authority prior to issuance of the permit or other approval except with respect to any detail that is clearly neither regulated by a provision of this UDO or other applicable law or regulation, nor expressly required as a commitment or condition of approval by the reviewing authority.

(3) Modification or Amendment of Approval

The following provisions apply to all proposed modifications or amendments of approvals previously granted by the city unless another provision of this UDO provides different standards, criteria, or procedures for modifications or amendments to specific types of approvals.

(A) Minor Changes Allowed

Development authorized by any approval under this UDO may incorporate minor changes from the approved plan, or permit, without the need for a new petition, provided that the Planning and Transportation Director determines that the proposed changes:

- i. Comply with the standards of this UDO;
- ii. Would not significantly alter the function, form, intensity, character, demand on public facilities, or impact on adjacent properties as originally approved.

(B) Major Changes

Any modification of an approved plan or permit that the Planning and Transportation Director determines does not meet the criteria in subsection (A) above shall require a new petition that is submitted and reviewed in accordance with the full procedure and fee requirements applicable to the particular type of the original petition.

(4) Limitation on Subsequent Similar Petitions

Following denial of a petition, the decision-making body shall not decide on petitions that are the same or substantially similar within one year of the previous denial, or in accordance with Indiana Code Section 36-7-4-609, as amended. This waiting period may be waived by the decision-making body provided that:

- (A) There is a substantial change to circumstances, or new information available, relevant to the issues or facts considered during the previous petition review; or
- (B) The new petition is materially different from the previous petition.

(5) Appeals

Unless a different procedure is provided in Section 20.06.080(d) (Administrative Appeal) or another provision of this UDO, the following provisions apply to appeals of decisions under this UDO.

(A) Staff or Hearing Officer Decision

A staff decision may be appealed to the Board of Zoning Appeals pursuant to the procedure set forth in Section 20.06.080(d) (Administrative Appeal). Any appeal shall be filed with the Planning and Transportation Department within ten days of staff's or the Hearing Officer's decision.

(B) Plan Commission, Board of Zoning Appeals, or Common Council Decision

Any person that has standing to obtain judicial review of a zoning decision as established in Indiana Code 36-7-4-1603: Standing may appeal a zoning decision made by the Plan Commission according to the judicial review process established in Indiana Code 36-7-4-1600: Judicial Review. Such appeal shall be filed at the appropriate venue in the judicial district where the land affected by the zoning decision is located and shall be filed no later than 30 days after the date of the zoning decision.

(C) Plat Committee Decision

A Plat Committee decision may be appealed to the Plan Commission pursuant to the procedure set forth in Section 20.06.080(d) (Administrative Appeal). Any appeal shall be filed with the Planning and Transportation Department within 10 days of the Plat Committee's decision.

(D) Time of Expiration during Appeals

If an appeal by writ of certiorari is taken from a decision, the time during which such appeal is pending shall not be counted in determining whether the permit or approval has expired under subsection (A) through (C).

20.06.050 Development Permits and Procedures

(a) Site Plan Review**(1) Purpose**

The site plan review procedure is intended to ensure that potential impacts of development are considered before submittal of a petition for construction or issuance of a building permit and to:

- (A) Promote well-planned and well-designed use of property;
- (B) Promote a high character of community development;
- (C) Review site plans relative to site layout, improvements and engineering in the interest of public health, safety, convenience, and welfare;
- (D) Promote new development that has a positive impact on the community as a whole, does not negatively impact neighbors, protects sensitive natural resources, is well-designed to maximize efficient use of the land and surrounding transportation system, and provides for adequate stormwater management;
- (E) Determine compliance with the standards of this UDO;
- (F) Protect environmental quality; and
- (G) Ensure that the statutory requirements established in the Indiana Code for development plan review and approval are met.

(2) Applicability**(A) Activities Subject to Site Plan Review**

Site plan review is required prior to the issuance of a building permit and/or construction of physical site improvements. Site plan review is required for all development and changes in use subject to this UDO, including the following, unless exempted by subsection B below:

- i. New building construction;
- ii. Newly established uses of land;
- iii. Expansions, alterations, or modifications of existing structures or sites for commercial, public, institutional, civic, employment, utilities and communication, group living, and multifamily residential uses of property within the city that result in increased occupancy or intensity of use; and

- iv. Creation or expansion of any vehicular parking area.

(B) Activities Exempt from Site Plan Review

Site plan review is not required for the following activities, but such activities shall be subject to the standards of this UDO and building permit review:

- i. Construction of a single-family detached, duplex, triplex, or fourplex dwelling on a single lot, additions to such dwellings, an accessory dwelling unit, and structures accessory to such dwellings; and
- ii. Construction or erection of accessory buildings, fences, hedges, or walls; and
- iii. Interior tenant alterations or improvements that do not increase parking requirements or alter exterior building appearances.
- iv. Projects that fall below the thresholds for minor site plan review in Section 20.06.050(a)(2)(C)i).

~~v. Activities that require a grading permit but do not require any site improvements.~~

(C) Thresholds for Minor and Major Site Plan Review

Site plan review is conducted by the Planning and Transportation Director or the Plan Commission, based on the thresholds below:

i. Minor Site Plan Review

Minor site plan review is required for any of the following activities unless that activity is exempt from the site plan process under Section 20.06.050(a)(2)(B), or the project meets or exceeds the thresholds requiring major site plan review under Section 20.06.050(a)(2)(C)ii:

- 1. A change in use that involves or requires site improvements;
- 2. Any expansion, alteration, or modification of a lawful nonconforming site feature or building that meets or exceeds the thresholds established in Section 20.06.090(f)(2) (Limited Compliance), and falls below the thresholds for major site plan review in Section 20.06.050(a)(2)(C)(ii).
- 3. Development that contains 20,000 square feet or less of new non-residential gross floor area;
- 4. Development that contains 50 dwelling units or less;
- 5. The alteration of any vehicular parking area;
- 6. Petitions for a site development grading permit ~~where site improvements are required~~; or
- 7. Projects that qualify for affordable housing incentives and/or sustainable development incentives established in Section 20.04.110 (Incentives), provided that, if located adjacent to one or more lots in an R1, R2, R3, or R4 district or such project does not contain more than 75 dwelling units.

ii. Major Site Plan Review

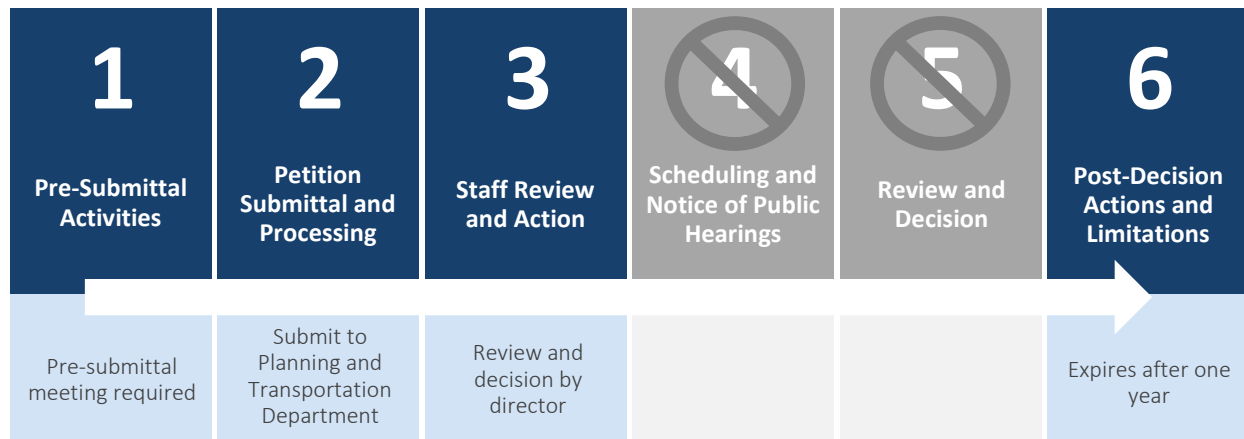
Major site plan approval is required for any project that meets or exceeds the following criteria, unless otherwise exempted from site plan review under Section 20.06.050(a)(2)(B):

1. Development located within 500 feet, measured radially, from the centerline of State Road 37/Interstate 69;
2. Any minor site plan determined by the Planning and Transportation Director to require major site plan review due to unusual size, complexity, or the creation of potential significant unanticipated impacts on the city or surrounding neighborhoods; or
3. Any project that would individually qualify for minor site plan review but that, when considered collectively with prior minor site plan approvals for adjacent lots or sites under common or related ownership within the last three years, would have required major site plan review, if the Planning and Transportation Director concludes that the combined impact of any such adjacent projects creates impacts similar to those requiring major site plan review.
4. Anything that exceeds minor site plan review thresholds.

(3) Minor Site Plan Review Process

Figure 06.05-1 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to that apply to minor site plan review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-1: Summary of Minor Site Plan Review Procedure



(A) Pre-Submittal Activities

A pre-submittal meeting is required in accordance with Section 20.06.040(b)(1) (Pre-Submittal Meeting).

(B) Petition Submittal and Processing

The minor site plan petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(C) Staff Review and Action**i. Generally**

1. The Planning and Transportation Director shall review the minor site plan petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in Section 20.06.040(d)(6)(B) (General Compliance Criteria).
2. Alternatively, the Planning and Transportation Director may refer the petition to the Plan Commission pursuant to Section 20.06.040(d)(2) (Petition Routing).

ii. Commitments

The Planning and Transportation Director may allow or require the owner of a parcel of real property to make a written commitment concerning use and/or development of that parcel in connection with approval of a site plan pursuant to Section 20.06.040(d)(8) (Commitments).

iii. Additional Review for Drainage and Floodplain

Any projects that are determined by the Planning and Transportation Department to be located within an identified floodway, flood fringe, or within the floodplain shall also meet the criteria in Section 20.04.040 (Floodplain).

(D) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Notification of Findings

The Planning and Transportation Director shall make and sign written findings concerning each decision to approve or disapprove a minor site plan, and such written findings shall be made available to the petitioner.

ii. Expiration of Approval

Approval of a minor site plan shall be effective for a maximum period of one year unless, upon petition by the petitioner, the Planning and Transportation Director grants an extension during that one year period and pursuant to Section 20.06.040(h)(1) (Expiration of Approval). A site plan approval will be considered expired if no Site Development Permit has been approved related to the site plan within the one year period or the approved extended time period. Or, in the case where no Site Development Permit is required, no Certificate of Zoning Compliance for a building permit on the site plan has been approved related to the approval within the one year period, or the approved extended time period.

iii. Modification or Amendment of Approval

An approved minor site plan may be modified or amended in accordance with Section 20.06.040(h)(3) (Modification or Amendment of Approval).

iv. Appeal

Any person, other than the petitioner, aggrieved by a minor site plan decision by the Planning and Transportation Director may appeal the decision to the Plan Commission. Such appeal shall be filed in the Planning and Transportation Department within ten days of the staff's decision. The appeal shall specify the grounds for the appeal and shall be filed in the form established by the Plan Commission rules of procedure. All appeals shall be accompanied by fees required by the Plan Commission rules of procedure.

(4) Major Site Plan Review Process

Figure 06.05-2 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to major site plan review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-2: Summary of Major Site Plan Review Procedure**(A) Pre-Submittal Activities**

- i. A pre-submittal meeting shall be held in accordance with Section 20.06.040(b)(1) (Pre-Submittal Meeting).
- ii. A Development Review Committee meeting shall be held in accordance with Section 20.06.040(b)(2) (Development Review Committee (DRC) Meeting).
- iii. A pre-submittal neighborhood meeting shall be held in accordance with Section 20.06.040(b)(3) (Pre-Submittal Neighborhood Meeting).

(B) Petition Submittal and Processing

The major site plan petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(C) Staff Review and Action

The planning and transportation staff shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in Section 20.06.040(d)(6)(B) (General Compliance Criteria).

(D) Scheduling and Notice of Public Hearings

The major site plan petition shall be scheduled for a public hearing before the Plan Commission and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

(E) Review and Decision**i. Generally**

The Plan Commission shall review the major site plan petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(g) (Review and Decision), based on the general approval criteria in Section 20.06.040(d)(6)(B) (General Compliance Criteria).

ii. Commitments

The Plan Commission may allow or require the owner of a parcel of real property to make a written commitment concerning use and/or development of that parcel in connection with approval of a site plan pursuant to Section 20.06.040(d)(8) (Commitments).

iii. Additional Review for Drainage and Floodplain

Any projects that are determined by the Planning and Transportation Department to be located within an identified floodway, flood fringe, or within the floodplain shall also meet the criteria in Section 20.04.040 (Floodplain).

(F) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Notification of Findings

The Plan Commission shall make written findings concerning each decision to approve or disapprove a major site plan, and such findings shall be made available to the petitioner.

ii. Expiration of Approval

Approval of a major site plan shall be effective for a maximum period of one year unless, upon petition by the petitioner, the Plan Commission grants an extension during that one year period and pursuant to Section 20.06.040(h)(1) (Expiration of Approval). A site plan approval will be considered expired if no Site Development/Grading Permit has been approved related to the site plan within the one year period or the approved extended time period. Or, in the case where no Site Development/Grading Permit is required, no Certificate of Zoning Compliance for a building permit on the site plan has been approved related to the approval within the one year period, or the approved extended time period.

iii. Modification or Amendment of Approval

An approved major site plan may be modified or amended in accordance with Section 20.06.040(h)(3) (Modification or Amendment of Approval).

(b) Conditional Use Permit**(1) Purpose**

The conditional use permit procedure provides a mechanism for the city to evaluate proposed land uses in a particular zoning district and to establish certain conditions to address unique characteristics associated with the proposed land use. The use shall be permitted by the Board of Zoning Appeals or Hearing Officer if it is determined that the listed conditions are met.

(2) Applicability

No use classified as conditional in Table 03-1: Allowed Use Table, or any other standard in this UDO may be conducted without first obtaining a conditional use permit under this Section 20.06.050(b). No conditional use shall be conducted except in compliance with all applicable provisions of this UDO and with any conditions upon such conditional use approval.

(3) Conditional Use Permit Review Process

Figure 06.05-3 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to conditional use permit review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-3: Summary of Conditional Use Permit Procedure

**(A) Pre-Submittal Activities**

- i. A pre-submittal meeting shall be held in accordance with Section 20.06.040(b)(1) (Pre-Submittal Meeting).
- ii. Petitions subject to review and decision by the Hearing Officer shall not require a Development Review Committee meeting or a pre-submittal neighborhood meeting.
- iii. For petitions subject to review and decision by the Board of Zoning Appeals, a Development Review Committee meeting and pre-submittal neighborhood meeting may be required by the Planning and Transportation Director, in accordance with Section 20.06.040(b)(2) (Development Review Committee (DRC) Meeting) and Section 20.06.040(b)(3) (Pre-Submittal Neighborhood Meeting). The requirements of Section 20.06.050(b)(3)(D) and 20.06.050(b)(3)(E)(v) apply to conditional use permit petitions for the "Dwelling, duplex" use in the R1, R2, or R3 zoning districts.

(B) Petition Submittal and Processing

The conditional use permit petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(C) Staff Review and Action

The Planning and Transportation Director shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action).

(D) Scheduling and Notice of Public Hearings

The conditional use permit petition shall be scheduled for a public hearing before the Board of Zoning Appeals or Hearing Officer and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

Conditional use permit petitions for the “Dwelling, duplex” use in the R1, R2, R3 zoning districts shall be scheduled for a public hearing before the Board of Zoning Appeals and noticed in accordance with 20.06.040(e).

(E) Review and Decision**i. Generally**

The Hearing Officer or Board of Zoning Appeals shall review the conditional use permit petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d)(7)), based on the general approval criteria in Section 20.06.040(d)(6) (Approval Criteria), and the following specific approval criteria:

ii. Floodway and Flood Fringe Development

1. No conditional use shall be approved until a permit citing the 100 year flood elevation and the recommended flood protection grade, or a letter stating that no permit is required, has been obtained from the Indiana Department of Natural Resources (DNR) and all conditions and specifications of that permit and other applicable DNR regulations are met.
2. Development shall not increase the elevation of the regulatory flood beyond the limits allowed by state and federal regulations.
3. On-site waste disposal systems such as sewage treatment plants shall be located so as to avoid their impairment and to avoid contamination during the occurrence of the regulatory flood. No septic systems shall be installed within either floodway or flood fringe areas.
4. New and replacement sanitary sewer lines and on-site waste disposal systems may be permitted provided that all manholes or other above ground openings are located at or above the flood protection grade, or those which are located below the flood protection grade are watertight.

iii. Historic Adaptive Re-Use

The following shall apply to any adaptive use, protection, or restoration of a historic resource for a land use not specifically permitted in the zoning district pursuant to Table 03-1: Allowed Use Table.

1. The property shall have been designated historic at the local level, or have had a petition filed for such designation, at the time of petition for conditional use approval.
2. The proposed use shall not diminish the historic character of the property or, if it is located within an historic district, the historic character of said historic district.
3. The proposed use shall enhance the ability to restore and/or preserve the property.
4. The granting of the conditional use approval shall be contingent upon any required certificate of appropriateness and upon the granting of a local historic designation or the presence of such designation being in place.

iv. Quarry Adaptive Re-Use

1. The petitioner shall provide documentation that limestone or other stone processing operations are no longer feasible due to environmental and/or physical site characteristics. Market economic conditions may be considered, but the purpose is to protect these natural resources from encroachment of other land uses that may inhibit or prevent quarry or stone processing activities.
2. The proposed adaptive re-use shall retain, to the greatest extent possible, the existing quarry features to preserve the region's quarry heritage.
3. Land use decisions shall be made in consideration of the dominant land use patterns that surround each site.
4. The proposed adaptive re-use shall be a less intense land use than quarry uses in regard to environmental regulatory standards and general nuisance in regard to noise, vibration, and dust.
5. An environmental mitigation plan shall be submitted with the conditional use petition. The environmental mitigation plan shall include, but not be limited to cleanup measures, water quality protection, and long-term monitoring standards. All environmental mitigation plans shall meet the standards of the City Utilities Department, as well as any applicable state and federal requirements.

v. Dwelling, Duplex in R1, R2, or R3 Zoning Districts

Conditional use permit petitions for the "Dwelling, duplex" use in the R1, R2, or R3 zoning districts shall require a pre-submittal neighborhood meeting in accordance with 20.06.040(b)(3) (Pre-Submittal Neighborhood Meeting).

vi. Commitments

1. The Board of Zoning Appeals or Hearing Officer may allow or require the owner of a parcel of real property to make a written commitment concerning use and/or development of that parcel in connection with approval of a conditional use permit in accordance with Section 20.06.040(d)(8) (Commitments).
2. If the owner of a parcel of real estate fails to accept a condition imposed, or to make a commitment allowed or required, by the Hearing Officer, then the owner's petition shall be considered withdrawn or, if requested by the owner, shall be transferred to the Board of Zoning Appeals.

(F) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Effect of Approval of a Conditional Use

The granting of a conditional use authorizes the use and establishes the terms of use. Conditional uses are also subject to site plan requirements, all necessary permits and approvals, and other applicable requirements. All required permits and approvals shall be obtained before any grading, construction, or use commences.

ii. Duration

A conditional use permit granted by the Board of Zoning Appeals or the Hearing Officer shall expire:

1. Two years after the date granted by the Board of Zoning Appeals or Hearing Officer, unless:
 - [a] A building permit has been obtained and construction of the structure or structures has commenced; or
 - [b] An occupancy permit has been obtained and the use has commenced; or
2. At the date of termination established by the Board of Zoning Appeals or Hearing Officer as a condition or commitment if different from (1) above.

iii. Modification or Amendment of Approval

1. Any modification or intensification of a conditional use that alters the essential character or operation of the use in a way not intended by the Board of Zoning Appeals or Hearing Officer at the time the conditional use was granted shall require a new conditional use approval.
2. The Planning and Transportation Director shall determine in writing whether the proposed modification or intensification represents an alteration in the essential character of the original conditional use as approved. The operator of the conditional use shall provide the Planning and Transportation Director with all the necessary information to render this determination.
3. In the case where the Planning and Transportation Director determines a new conditional use permit is required, a petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing) and this Section 20.06.050(b) (Conditional Use Permit).
4. The Hearing Officer may hear requests for amendments to a conditional use, if authorized by the Plan Commission.

(c) Demolition Delay Permit

(1) Purpose

The demolition delay permit procedure is intended to ensure that potentially historic structures are protected from demolition or alteration.

(2) Applicability

This Section 20.06.050(c) shall not apply to any structure that is within a property or group of properties locally designated as a historic district or a conservation district pursuant to Title 8 (Historic Preservation and Protection) of the Bloomington Municipal Code. No certificate of zoning compliance authorizing release of a permit allowing the demolition, substantial demolition, or partial demolition of a structure that is listed as "Outstanding" or "Notable," or demolition or substantial demolition of a structure listed as "Contributing" on the City of Bloomington Survey of Historic Sites and Structures, or any accessory structure of the same era of construction as the principal structure that is so listed, shall be issued prior to review pursuant to this Subsection C.

(3) Demolition Delay Permit Review Process

Figure 06.05-4 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to demolition delay permit review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-4: Summary of Demolition Delay Permit Procedure

**(A) Pre-Submittal Activities**

A pre-submittal meeting is required in accordance with Section 20.06.040(b)(1) (Pre-Submittal Meeting).

(B) Petition Submittal and Processing

- i. The demolition delay permit petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing)
- ii. If a petition for demolition or partial demolition that is subject to the demolition delay procedures of this UDO is withdrawn by the petitioner, the demolition delay period shall be terminated and no certificate of zoning compliance for the withdrawn petition shall be issued.

(C) Staff Review and Action**i. Notice to Property Owner and Housing and Neighborhood Development Director**

1. Upon receiving a petition for a demolition or partial demolition covered by this Section 20.06.050(c), the Planning and Transportation Director shall give notice to the Housing and Neighborhood Development Director and to the property owner, or his/her representative. Such notice shall advise the property owner that the permit petition may need to be amended to include materials required by Section 20.06.050(a)(Site Plan Review) and the rules and regulations of the Historic Preservation Commission, in order for the petition to be considered complete.
2. Not later than 30 days after such notice is given by the Planning and Transportation Director, the Housing and Neighborhood Development Director shall give notice to the chairperson of the Historic Preservation Commission and to the property owner, if the 120 day waiting period is to be imposed pursuant to section 20.06.050(c)(3)(C)ii.

ii. Waiting Period**1. Determination of Waiting Period**

The 90-day period shall apply in all cases unless the Housing and Neighborhood Development Director, or his/her designee, finds that an additional 30-day delay period is needed in order for the Historic Preservation Commission to responsibly consider and determine whether to recommend designation of the property. The Housing and Neighborhood Development Director shall make such finding only where:

- [a] There are multiple demolition permits and/or historic designation proposals pending or expected to come before the Historic Preservation Commission during the 90-day period; or
- [b] The demolition request presents unusually complex public policy issues due to the location or survey classification of the structure; or
- [c] The structure is located within an area that contains multiple surveyed properties, it is located within an area designated on the National Register of Historic Places, or the survey classification of the structure proposed for demolition or partial demolition is "Notable" or "Outstanding."

2. Early Termination of Waiting Period

The remainder of the waiting period shall be considered waived and the certificate of zoning compliance shall be issued if within the 90- or 120-day period one of the following occurs and all other requirements of this UDO are satisfied:

- [a] The Historic Preservation Commission votes affirmatively not to recommend local historic designation to the Common Council; or
- [b] The Historic Preservation Commission votes on a motion to recommend local designation and the motion fails; or

- [c] In cases of contributing structures in a single family district, staff for the Historic Preservation Commission decides not to recommend local historic designation to the Historic Preservation Commission and Common Council based on the same review criteria used by the Historic Preservation Commission when determining if a property should be recommended for local historic designation; or
- [d] The Common Council disapproves a recommended local historic designation of the subject property.

3. **Waiting Period Limited to Once per Year**

- [a] No structure that has been subjected to the waiting period under this section shall be subject to a second waiting period until one year has passed from the date of expiration of the first waiting period.
- [b] During this one-year period, no action of the Historic Preservation Commission or the Common Council may prevent issuance or effect revocation of a certificate of zoning compliance or demolition permit that is otherwise properly issued or petition that meets all requirements of the Bloomington Municipal Code and this UDO.
- [c] This provision shall not apply except to the extent that the work covered by the certificate of zoning compliance or demolition or partial demolition permit, or petition for such a certificate or permit, is substantially identical to the work shown in the submission that occasioned the first waiting period.
- [d] For purposes of this Section 20.06.050(c)(3)(C)ii:
 - i. "Work" includes the proposed demolition, partial demolition and any proposed construction, reconstruction, or alteration associated therewith;
 - ii. "Substantially identical" means without significant deviation in any detail of any elevation or in the type, design, or location of materials that will be subject to public view; and
 - iii. "Submission" shall mean the submission that is authorized to receive approval pursuant to 20.06.040(c) (Petition Submittal and Processing) of this Chapter 20.06:.

4. **Emergency Waiver of Waiting Period**

The waiting period may be waived upon a written determination by the City's Housing and Neighborhood Development Department that there is an emergency condition dangerous to life, health, or property that requires demolition prior to the expiration of the waiting period.

(D) **Scheduling and Notice of Hearings**

i. **Discretionary Hearing**

The Historic Preservation Commission may conduct a hearing, at its sole discretion, during the waiting period, to determine if any structure described below should be recommended for local designation by the Common Council:

1. A "Contributing" structure located in any of multifamily or mixed-use zoning district.
2. A "Contributing" structure located in the R1, R2, R3, or R4 zoning districts if the staff for the HPC determines that a review of the petition necessitates full HPC review.
3. A "Notable" structure located in any zoning district of the city.
4. An "Outstanding" structure located in any zoning district of the city.

ii. Posted Notice Required

1. Generally

- [a] Within three business days of receiving notice by the Planning and Transportation Director that his/her property is subject to the waiting period provisions of this section, the owner shall place upon the property where the structure is located, in plain public view, a notice to the public of the proposed demolition or partial demolition of the structure.
- [b] The notice shall be in such form as approved by the staff and shall remain in place until termination of the waiting period.
- [c] Noncompliance with this provision shall result in the delay period being extended by an amount of time equal to the amount of time, as reasonably determined or estimated by the Planning and Transportation Director, during which the notice was not properly in place.

2. Exemption to Posted Notice

- [a] This section shall not apply to a petition for partial demolition of a property classified as "Contributing" in any single-family district if staff for the Historic Preservation Commission reviews and releases the petition.
 - i. Staff, for purposes of this subsection, shall be those persons who have the same or equivalent technical expertise as the members of the Historic Preservation Commission as outlined in Section 2.16.010(c) of the Bloomington Municipal Code.
 - ii. If within seven business days of the receipt of a petition the staff has not taken steps to forward the matter to the Historic Preservation Commission for further review, the petition shall be released automatically and the provisions of Section 20.06.050(c) shall apply.
 - iii. Staff's decision shall be based on the same criteria used by the Historic Preservation Commission when it renders a determination about whether or not a property should be recommended for local historic designation.
- [b] If staff for the Historic Preservation Commission determines that full Historic Preservation Commission review of a petition for a partial demolition of a property classified as "Contributing" in a single-family district is necessary, then the owner shall post the notice described in subsection ii.1 above on the property.

(E) Review and Decision

- i. After expiration of the waiting period, which shall include early termination of the waiting period, a certificate of zoning compliance authorizing demolition shall be issued if the property owner has submitted a complete petition and all other requirements of the Bloomington Municipal Code and this UDO are met.
- ii. For any structure that is exempt from the waiting period of this section, a certificate of zoning compliance authorizing release of a demolition or partial demolition permit shall be issued within a reasonable time following receipt by the Planning and Transportation Department of a complete petition, provided all other requirements of the Bloomington Municipal Code and this UDO are met.
- iii. If within the 90 or 120 day waiting period the property is placed under interim protection or is locally designated as a historic or conservation district pursuant to Chapter 8.08, (Historic Districts and Standards) of the Bloomington Municipal Code, then no certificate of zoning compliance authorizing demolition or partial demolition may be issued except:
 1. Upon termination of interim protection without historic or conservation district designation being placed upon the property; or,
 2. Where historic or conservation district designation is placed upon the property, in accordance with and after all approvals required by Chapter 8.08 (Historic Districts and Standards) of the Bloomington Municipal Code.

(F) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

- i. The recipient of a permit or other approval subject to this section shall be bound to the details of the elevations, and the design, type, and location of materials depicted in the submission and may not deviate from such depiction, except as modified and approved at one or more public meetings of the Historic Preservation Commission, without applying for a new certificate of zoning compliance, petition for which shall commence a new waiting period.
- ii. No action of the Historic Preservation Commission may prevent issuance or effect revocation of such certificate of zoning compliance, or a demolition permit issued in reliance upon such certificate of zoning compliance, for a period of one year from the end of the waiting period. The demolition delay approval by the Historic Preservation Commission shall expire one year after the approval is issued.

(d) Floodplain Development Permit

(1) Purpose

The floodplain development permit procedure is intended to minimize public and private losses due to flood conditions in specific areas and to provide a mechanism to ensure compliance with this UDO by providing a thorough permitting and inspection process for all floodplain development activities.

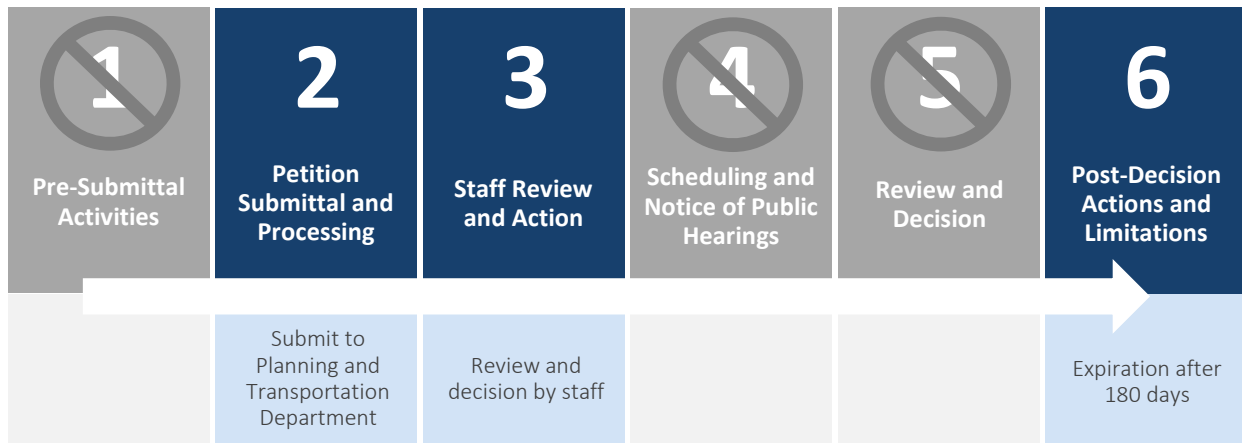
(2) Applicability

- (A) No development shall occur in any special flood hazard area (SFHA) and known flood prone areas, unless a required stormwater management grading permit per Title 13 (Stormwater) of the Bloomington Municipal Code for such activity has been issued. In cases where a stormwater management permit is not required, no development shall occur unless a site development permit has been issued.
- (B) Compliance with the standards in this UDO shall not relieve any person of the independent obligation to comply with all applicable standards and practices established in federal and state law and all other applicable rules, regulations, standards and specifications of the City regarding development within a floodplain.

(3) Floodplain development permit Review Process

Figure 06.05-6 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to floodplain development permit review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-5: Summary of Floodplain development permit Procedure

**(A) Petition Submittal and Processing**

The floodplain development permit petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing) with the following modifications:

i. Petition Submittal Requirements

The petition shall include, but not be limited to, the following documents:

1. A description of the proposed development;
2. Location of the proposed development sufficient to accurately locate property and structure(s) in relation to existing roads and streams;
3. A legal description of the property site;
4. A site development plan showing existing and proposed development locations and existing and proposed land grades;
5. Elevation of the top of the planned lowest floor (including basement) of all proposed buildings. Elevation should be in NAVD 88 or NGVD;

6. Elevation (in NAVD 88 or NGVD) to which any non-residential structure will be floodproofed; and
7. Description of the extent to which any watercourse will be altered or relocated as a result of proposed development. A hydrologic and hydraulic engineering study is required, and any watercourse changes submitted to DNR for approval and then to FEMA as a Letter of Map Revision.

ii. Submittal to the Indiana Department of Natural Resources

If the site is in an identified floodway pursuant to Section 20.04.040(c)(1), the Floodplain Administrator shall require the petitioner to forward the petition, along with all pertinent plans and specifications, to the Indiana Department of Natural Resources and apply for a permit for construction in a floodway.

iii. Petitions Involving Channel Modifications or Fill

For all projects involving channel modifications or fill (including levees) the City shall submit the data and request that the Federal Emergency Management Agency revise the regulatory flood data per mapping standard regulations found at 44 CFR § 65.12.

(B) Staff Review and Action

The Floodplain Administrator shall review the floodplain development permit petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in 20.06.040(d)(6)(B) (General Compliance Criteria) and the following specific approval criteria:

- i. Ensure that all necessary federal or state permits have been received prior to issuance of the floodplain development permit;
- ii. Under the provisions of IC 14-28-1 a permit for construction in a floodway from the Indiana Department of Natural Resources is required prior to the issuance of a local building permit for any excavation, deposit, construction, or obstruction activity located in the floodway. This includes land preparation activities such as filling, grading, clearing and paving etc. undertaken before the actual start of construction of the structure. However, it does exclude non-substantial additions/improvements to existing (lawful) residences in a non-boundary river floodway. (IC 14-28-1-26 allows construction of a non-substantial addition/ improvement to a residence in a non-boundary river floodway without obtaining a permit for construction in the floodway from the Indiana Department of Natural Resources. Please note that if fill is needed to elevate an addition above the existing grade, prior approval for the fill is required from the Indiana Department of Natural Resources.)

- iii. No action shall be taken by the Floodplain Administrator until a permit or letter of authorization (when applicable) has been issued by the Indiana Department of Natural Resources granting approval for construction in the floodway. Once a permit for construction in a floodway or letter of authorization has been issued by the Indiana Department of Natural Resources, the Floodplain Administrator may issue the local Floodplain Development Permit, provided the provisions contained in this UDO have been met. The Floodplain Development Permit cannot be less restrictive than the permit for construction in a floodway issued by the Indiana Department of Natural Resources.
- iv. No development shall be allowed, which acting alone or in combination with existing or future development, that will adversely affect the efficiency of, or unduly restrict the capacity of the floodway. This adverse effect is defined as an increase in the elevation of the regulatory flood of at least 0.15 of a foot as determined by comparing the regulatory flood elevation under the project condition to that under the natural or pre-floodway condition as proven with hydraulic analyses.

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Duration

- 1. Floodplain development permits shall be valid for a period of 180 days, as measured from the date on the certificate of zoning compliance or run concurrently with the building permit or other construction authorizations, whichever is longer.
- 2. At the written request of the petitioner, the City may extend the period one or more times for up to a maximum of an additional 180 days. The City may require additional erosion control measures as a condition of the extension if they are necessary to meet the requirements of this UDO.

ii. Changes or Amendments

- 1. The petitioner may submit revisions or amendments to an approved floodplain development permit for consideration by the local, state, and federal authorities having jurisdiction. A revision or amendment to an approved floodplain development permit shall only be authorized upon review and approval by all the local, state, and federal authorities having jurisdiction.
- 2. Changes to the floodplain development permit shall be approved in writing.

iii. Construction Stage

1. Inspections Required

The Floodplain Administrator shall perform a minimum of three inspections to ensure that all applicable floodplain development requirements have been satisfied:

- [a] The first upon the establishment of the Flood Protection Grade reference mark at the development site;

- [b] The second upon the establishment of the structure's footprint/establishment of the lowest floor; and
- [c] The final inspection upon completion and submission of the required finished construction elevation certificate. Authorized City officials shall have the right to enter and inspect properties located in the SFHA.

2. Certification

- [a] Upon establishment of the lowest floor of an elevated structure or structure constructed on fill, it shall be the duty of the petitioner to submit to the Floodplain Administrator a certification of the NAVD 88 or NGVD elevation of the lowest floor, as built. Said certification shall be prepared by or under the direct supervision of a registered land surveyor, professional engineer or architect and certified by the same. The Floodplain Administrator shall review the lowest floor elevation survey data submitted. The petitioner shall correct deficiencies detected by such review before any further work is allowed to proceed. Failure to submit the survey or failure to make said corrections required hereby shall be cause to issue a stop-work order for the project. Any work undertaken prior to submission of the elevation certification shall be at the petitioner's risk.
- [b] Upon establishment of the floodproofed elevation of a floodproofed structure, it shall be the duty of the petitioner to submit to the Floodplain Administrator a floodproofing certificate. Certification shall be prepared by or under the direct supervision of a registered professional engineer or architect and certified by same. (The Floodplain Administrator shall review the floodproofing certification submitted.) The applicant shall correct any deficiencies detected by such review before any further work is allowed to proceed. Failure to submit the floodproofing certification or failure to make correction required shall be cause to issue a stop-work order for the project.
- [c] Upon completion of construction, an elevation certification (FEMA Elevation Certificate Form 81-31 or any future updates) which depicts the "as-built" lowest floor elevation is required to be submitted to the Floodplain Administrator. If the project includes a floodproofing measure, floodproofing certification (FEMA Floodproofing Certificate Form 81-65 or any future updates) is required to be submitted by the applicant to the Floodplain Administrator.

3. Stop Work Orders

- [a] Upon notice from the Floodplain Administrator, work on any building, structure or premises that is being done contrary to the provisions of this UDO shall immediately cease.
- [b] Such notice shall be in writing and shall be given to the owner of the property, or to his agent, or to the person doing the work, and shall state the conditions under which work may be resumed.

iv. Revocation of Permits

1. The Floodplain Administrator may revoke a permit or approval, issued under the provisions of this UDO, in cases where there has been any false statement or misrepresentation as to the material fact in the application or plans on which the permit or approval was based.
2. The Floodplain Administrator may revoke a permit upon determination that the construction, erection, alteration, repair, moving, demolition, installation, or replacement of the structure for which the permit was issued is in violation of, or not in conformity with, the provisions of this UDO.

(e) Site DevelopmentGrading Permit**(1) Purpose**

The site developmentgrading permit procedure is intended to ~~mitigate the environmental impact of site development and to protect the water quality of the City of Bloomington, Monroe County, and surrounding areas, and to~~ provide a mechanism to ensure compliance with this UDO by providing a thorough permitting and inspection process for all site developmentgrading activities.

(2) Applicability

No site development~~land-disturbing~~ activity shall occur on platted or unplatted lands in any zoning district, unless a site developmentgrading permit for such activity has been issued.

(A) Exemptions

- ~~i. Land-disturbing activity covering an area less than 2,500 square feet;~~
- ~~i. Site developmentLand-disturbing activity on lots containing the uses: dwelling, single-family (attached); dwelling, single-family (detached); dwelling, duplex; dwelling, triplex; or dwelling, fourplex.~~
- ~~ii. Site development activity containing only new buildings or changes, alterations, or additions to an existing building, with no additional improvements required.~~
- ~~iii. Site development activity containing only new signs, or changes, alterations, or additions to a sign.~~
- ~~iv. Site development activity containing related to an approved temporary use.~~
~~Land-disturbing activity solely for new foundations for buildings or additions with a footprint of 5,000 square feet or less.~~

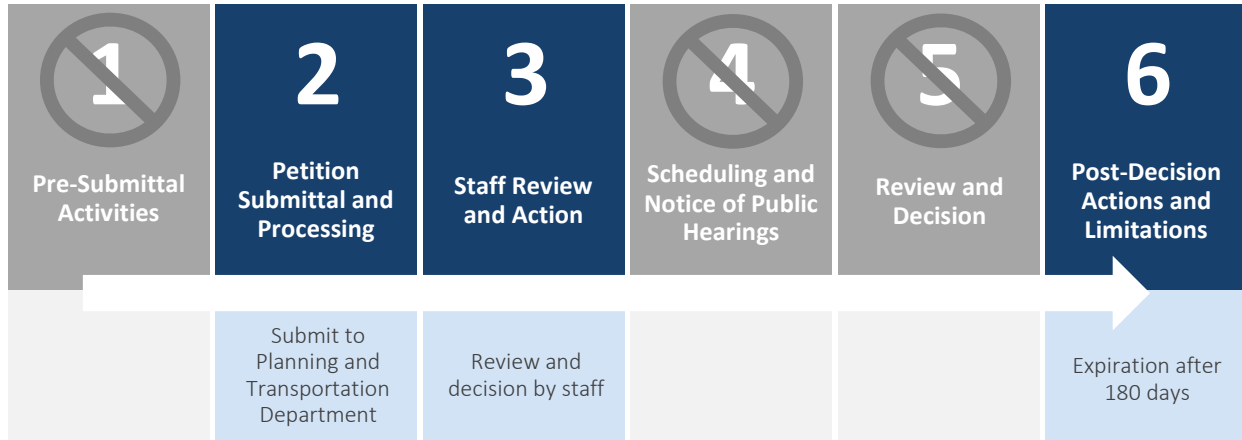
(B) ~~Additional Requirements~~

~~Compliance with the standards in this UDO shall not relieve any person of the independent obligation to comply with all applicable standards and practices set out in Indiana Administrative Code, 327 IAC 15-5, and 327 IAC 15-13, regarding stormwater runoff associated with construction activity; the Indiana Stormwater Quality Manual developed by the Indiana Department of Environmental Management; all applicable provisions of Title 10 (Wastewater) of the Bloomington Municipal Code regarding stormwater runoff; and all applicable rules, regulations, standards and specifications of the City Utilities Department regarding stormwater management practices.~~

(3) Site DevelopmentGrading Permit Review Process

Figure 06.05-6 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to site developmentgrading permit review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-6: Summary of Site DevelopmentGrading Permit Procedure

**(A) Petition Submittal and Processing**

The site developmentgrading permit petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing) with the following modifications:

i. Petition Submittal Requirements

The petition shall include, but not be limited to, the following documents:

1. Verification of site plan approval when such approval is required;
- 1.2. Construction plan including all proposed site improvements;
- ~~2. Estimate prepared by a licensed engineer of erosion control features for erosion control measures based on fair market price;~~
3. Topography of the site - proposed and existing two-foot contours;
4. Identification of environmental features, including but not limited to karst, water, trees, and steep slopes.

(B) Staff Review and Action

The planning and transportation staff shall review the site developmentgrading permit petition and approve, approve with conditions, or deny the petition within 20 working days of the receipt of a complete petition and all supportive documents in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in 20.06.040(d)(6)(B) (General Compliance Criteria) and the following specific approval criteria.

i. Construction Plan

~~The construction plans shall include all required and proposed environmental protections including but not limited to: tree protection zones, easements and setbacks from environmental features and conservation areas; as well as all required and proposed site improvements. The requirements are further detailed in the Administrative Manual. As required by Title 10 (Wastewater), of the Bloomington Municipal Code, a construction plan including the stormwater pollution prevention plan for the site shall be approved by the appropriate local, state, and federal authorities prior to the issuance of a grading permit.~~

ii. Planned Unit Development Approval

An approved final plan shall be in place prior to the issuance of a grading permit.

iii. Stormwater Permit

~~If required by Title 13 (Stormwater) in the Bloomington Municipal Code, petitioner must submit an application for a stormwater management permit to the City of Bloomington Utilities Department at the time of application for the site development permit.~~

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Duration

1. ~~Site development~~Grading permits shall be valid for a period of 180 days, as measured from the date on the certificate of zoning compliance or run concurrently with the building permit or other construction authorizations, whichever is longer.
2. At the written request of the petitioner, the city may extend the period one or more times for up to a maximum of an additional 180 days. ~~The city may require additional erosion control measures as a condition of the extension if they are necessary to meet the requirements of this UDO.~~

ii. Changes or Amendments

1. The petitioner may submit revisions or amendments to an approved ~~site development~~grading permit for consideration by the local, state, and federal authorities having jurisdiction. A revision or amendment to an approved ~~site development~~grading permit shall only be authorized upon review and approval by all the local, state, and federal authorities having jurisdiction.
2. Changes to the ~~site development~~grading permit shall be approved in writing.

iii. Financial Bond Required

1. ~~In conjunction with the approval of grading permit, the petitioner shall provide a financial guarantee for erosion control measures, by performance bond or an irrevocable, unconditional, acceptable letter of credit issued by a financial institution acceptable to the City, that all erosion control measures required under the provisions of this UDO and Planning and Transportation Department requirements shall be completed.~~

- ~~2. If the City draws on the erosion control bond to stabilize and reestablish the site, either the erosion control estimate prepared by the licensed engineer or the documented actual dollar per acre amount for reestablishment of the site, whichever is greater, shall be used.~~
- ~~3. The posting of a performance guarantee is not required when the petitioner is the City of Bloomington.~~

(f) Certificate of Zoning Compliance

(1) Purpose

The Certificate of Zoning Compliance procedure is intended to provide a mechanism for City staff to ensure that the establishment of and alterations to uses, sites, and structures conform to the standards of this UDO.

(2) Applicability

(A) Generally

- i. A Certificate of Zoning Compliance shall be required for any of the following activities:
 1. Alteration, erection, construction, reconstruction, division, enlargement, demolition, partial demolition or moving of any building, structure, sign, or mobile home;
 2. Establishment of a use or change in use to another use (see Section 20.06.090(c)(2) (Change in Use);
 3. Enlargement in the area used for any use or relocation of a use to another portion of a lot, site, or building;
 4. ~~Site Grading, development,~~ improvement, or other alteration of land, including paving or the establishment of drives or parking areas, or any other land distributing activity.
 5. Tree removal requests that decrease the baseline canopy cover shall follow the procedures outlined in Section 20.06.050(a) (Site Plan Review), and shall comply with the requirements of Section ~~20.04.030(h)~~~~20.04.030(i)~~ (Tree and Forest Preservation).
 6. Any action that would result in partial or complete demolition of any exterior portion of a building or structure that is listed as "Outstanding," "Notable," or "Contributing" on the City of Bloomington Survey of Historic Sites and Structures as the same may be amended or replaced ("Historic Survey"). Such action shall be subject to the procedures outlined in Section 20.06.050(c) (Demolition Delay Permit). An accessory building or structure not attached to the principal building or structure upon the listed parcel shall not be considered "listed" within the meaning of this UDO unless the accessory building or structure is of the same era of construction as the principal building or structure, as determined by the staff. Such determination shall be based upon resources that may include but shall not be limited to Sanborn Company Fire Insurance maps, visual inspection of the accessory building or structure, and records and expertise of Historic Preservation Commission or its staff.

- ii. A single Certificate of Zoning Compliance may be issued for a combination of such actions if they occur together. Any petition for a Certificate of Zoning Compliance, permit, or other approval for an action described in subsection (A)(i.6) above shall be subject to the procedures outlined in Section 20.06.050(c) (Demolition Delay Permit).

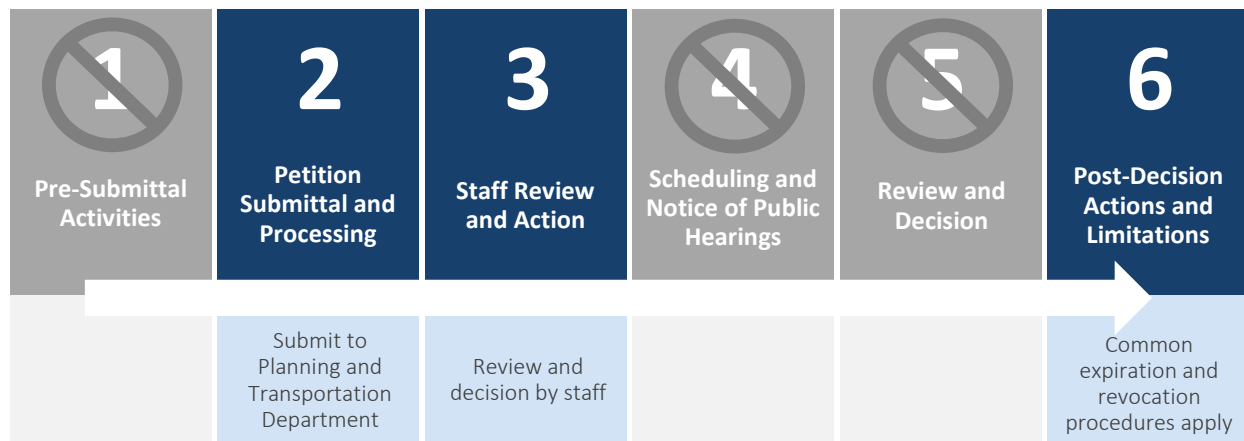
(B) Exemptions

Activities involving the removal of dead, dying, or hazardous trees, or exotic, invasive vegetation, as verified by the Planning and Transportation Department, are exempt from receiving a Certificate of Zoning Compliance, unless such removal decreases the baseline canopy cover.

(3) Certificate of Zoning Compliance Review Process

Figure 06.05-7 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to Certificate of Zoning Compliance review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-7: Summary of Certificate of Zoning Compliance Procedure



(A) Petition Submittal and Processing

The Certificate of Zoning Compliance petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(B) Staff Review and Action

The Planning and Transportation Director shall review the certificate of zoning compliance petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in Section 20.06.040(d)(6)(B) (General Compliance Criteria).

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Expiration of Approval

Approval of a Certificate of Zoning Compliance shall be effective for a maximum period of one year unless:

1. Construction under a valid site development~~grading~~ permit or building permit has commenced and is ongoing; or
2. Upon petition, the Planning and Transportation Director grants an extension pursuant to Section 20.06.040(h)(1) (Expiration of Approval).

(g) Certificate of Occupancy

(1) Purpose

The Certificate of Occupancy procedure is intended to provide a mechanism for City staff to ensure that the establishment of and alterations to uses, sites, and structures conform to the standards of this UDO.

(2) Applicability

(A) Generally

A Certificate of Occupancy shall be obtained prior to a building or structure being occupied or used in each of the following situations, except for detached single-family dwellings:

- i. Occupancy or use of any new building or structure;
- ii. Re-use or re-occupancy of any existing building or structure that requires either a permit from the County Building Department or a Certificate of Zoning Compliance from the Planning and Transportation Department;
- iii. Addition to any existing building or structure. Parts of the existing building or structure not included in the addition may continue to be occupied or used.

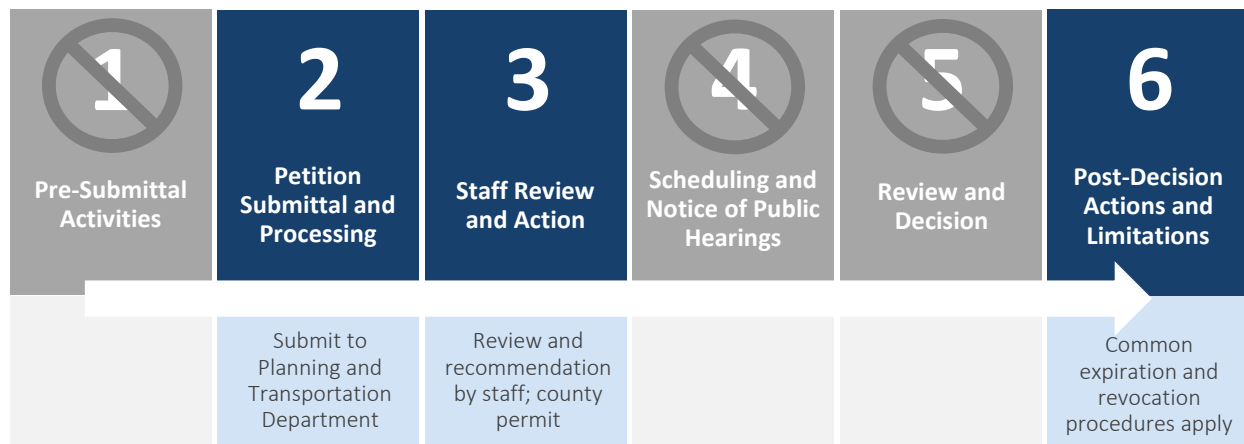
(B) Certificate of Occupancy Required

If a certificate of occupancy is required pursuant to subsection (A) above, it is unlawful and a violation of this UDO for anyone to occupy or use a building or structure, or to cause, suffer or permit another to occupy or use a building or structure, until a temporary or final Certificate of Occupancy has been granted. Any violation of this provision shall be subject to a stop work order, mitigation, and/or fines and penalties as specified in Section 20.06.100 (Enforcement and Penalties).

(3) Certificate of Occupancy Review Process

Figure 06.05-8 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to Certificate of Occupancy review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-8: Summary of Certificate of Occupancy Procedure



(A) Petition Submittal and Processing

The Certificate of Occupancy petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(B) Staff Review and Action

i. Temporary Certificate of Occupancy:

1. For a recommendation for a temporary Certificate of Occupancy to be issued each of the following shall be successfully completed:
 - [a] Installation of required public and internal sidewalk improvements;
 - [b] Installation of required parking areas surfaced and striped, including installation of upright ADA signage; and
 - [c] Safe ingress and egress from all principal buildings.

2. All recommendations for a temporary Certificate of Occupancy are contingent upon approvals from the Monroe County Building Department, Monroe County Health Department, City of Bloomington Fire Department, City of Bloomington Housing and Neighborhood Development Department, City of Bloomington Engineering Department, and City Utilities Department, if applicable.
3. A recommendation for a final Certificate of Occupancy shall be obtained within six weeks of the date of the recommendation for the temporary Certificate of Occupancy. Due to weather or other circumstances, this period may be extended for a period of up to six months at the discretion of the Planning and Transportation Director or designee.

ii. Final Certificate of Occupancy

1. For a recommendation for a final Certificate of Occupancy to be issued, the installation of all required site, lighting, landscaping, and elevations as approved by the Certificate of Zoning Compliance(s) shall be successfully completed.
2. All recommendations for a final Certificate of Occupancy are contingent upon approvals from the Monroe County Building Department, Monroe County Health Department, City of Bloomington Fire Department, City of Bloomington Housing and Neighborhood Development Department, City of Bloomington Engineering Department, and City Utilities Department, if applicable.

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations shall be pursuant to Monroe County standards and procedures.

(h) Certificate of Final Acceptance

(1) Purpose

The Certificate of Final Acceptance procedure is intended to provide a mechanism for the City to ensure that public facility improvements and installations conform to the standards of this UDO.

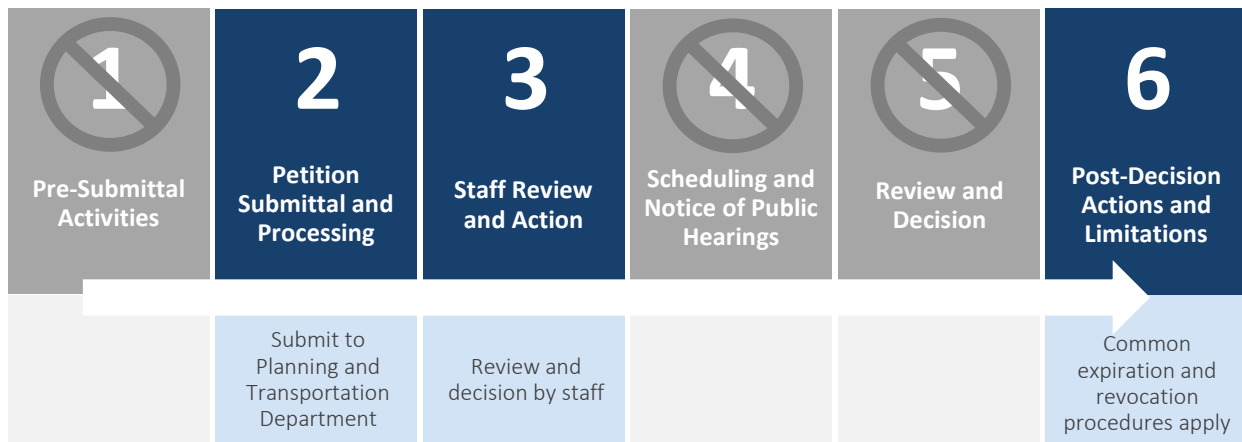
(2) Applicability

A Certificate of Final Acceptance shall be required for any project for which a performance bond has been submitted and upon the completion of any required public facility improvements and installations.

(3) Certificate of Final Acceptance Review Process

Figure 06.05-9 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to Certificate of Final Acceptance review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-9: Summary of Certificate of Final Acceptance Procedure

**(A) Petition Submittal and Processing**

The Certificate of Final Acceptance petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(B) Staff Review and Action**i. Inspection**

The Planning and Transportation Department and Engineering Department staff shall inspect the improvements for compliance with this UDO and any other applicable City Planning and Transportation Department and City Engineering Department requirements.

ii. Recommendation

The City Engineering Department shall recommend that the performance bond be released, extended, reduced, or declared in default based on the results of the inspection of improvements, and the City Engineer shall act on the recommended release, extension, reduction, or default of the performance bond after acceptance of the improvements by the Board of Public Works.

iii. Improvements

The Board of Public Works will consider acceptance of public improvements that meet the following conditions:

1. The completed public improvements shall comply with this UDO; have been constructed in accordance with City Engineering Department standards and specifications; and have been installed in accordance with the approved plans; and
2. All inspections required by the Bloomington Municipal Code have been completed and the improvements found to be acceptable by the City Engineering Department.

(C) Post-Decision Actions and Limitations

The City Planning and Transportation Department and City Engineering Department shall maintain records of all petitions, plans, and permits filed for a Certificate of Final Acceptance.

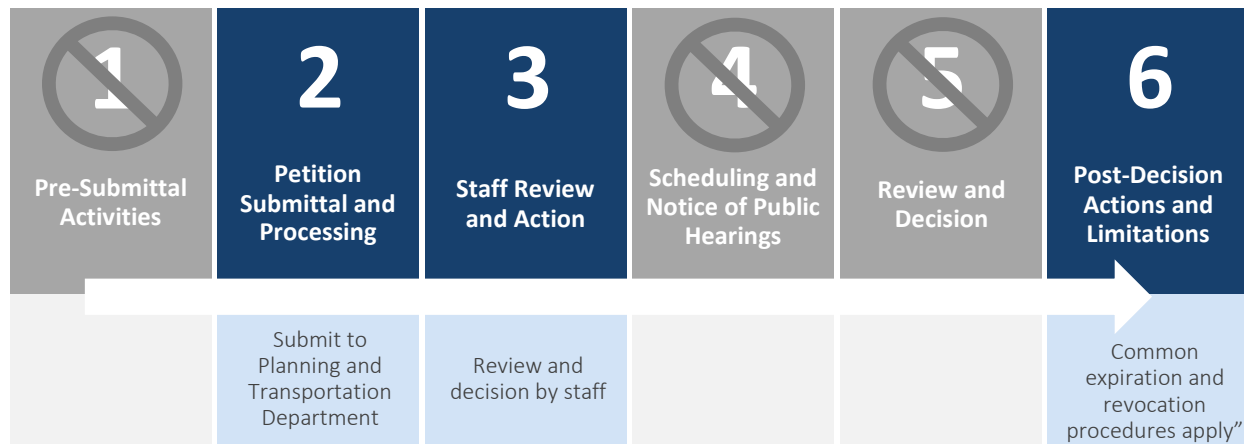
(i) Certificate of Nonconforming Use**(1) Purpose and Applicability**

A person who owns or operates a nonconforming use that has not been deemed abandoned pursuant to Section 20.06.090(c)(3) (Abandonment of a Nonconforming Use), may request a Certificate of Nonconforming Use to protect the lawful nonconforming status.

(2) Certificate of Nonconforming Use Review Process

Figure 06.05-11 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to certificate of nonconforming use review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-10: Summary of Certificate of Nonconforming Use Review Procedure

**(A) Petition Submittal and Processing**

The Certificate of Nonconforming Use petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(B) Staff Review and Action

The Planning and Transportation Director shall review the Certificate of Nonconforming Use petition, and shall and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in Section 20.06.040(d)(6)(B) (General Compliance Criteria) and the following criteria:

- i. The petitioner shall demonstrate that the use is a lawful nonconforming use prior to the issuance of the certificate.

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Effect of Approval

1. A Certificate of Nonconforming Use authorizes the continuation of an existing use of a property or building with any additional terms and conditions of the certificate and shall be valid as long as the use of the building or land remains in effect and is not abandoned.
2. The Certificate of Nonconforming Use shall clearly state that the existing use of the building or property was legally established prior to the effective date of the current UDO.

ii. Revocation of a Certificate of Nonconforming Use

1. A Certificate of Nonconforming Use may be revoked by the Planning and Transportation Director if the use of the property or building is inconsistent with the authorized use of the Certificate of Nonconforming Use.
2. The Planning and Transportation Director shall notify the certificate holder in writing and provide 30 days from the date of the letter for the certificate holder to bring the use of the property into compliance with the Certificate of Nonconforming Use, or the certificate shall be revoked.

(j) Sign Permit

(1) Purpose

The sign permit procedure is intended to provide a mechanism for enforcement of the sign regulations of this UDO in order to:

- (A) Establish for all signs located on any premises a reasonable and impartial means to permit adequate communication;
- (B) Control confusing sign displays that present a hazard to pedestrians and motorists along streets;
- (C) Ensure light, air, and open space;
- (D) Protect the natural beauty and environment of the city;
- (E) Safeguard and enhance property values;
- (F) Protect public and private investment in buildings and open spaces;

- (G) Protect the public health, safety, and general welfare; and
- (H) Comply with all state and federal laws and case decisions of courts applicable to the City concerning freedom of expression.

(2) Applicability

(A) Generally

- i. Except as otherwise provided, no person shall erect any sign as defined in this UDO without first obtaining a sign permit from the Planning and Transportation Department.
- ii. The use requesting the sign permit shall be legally established on the property for which the signage is being requested.

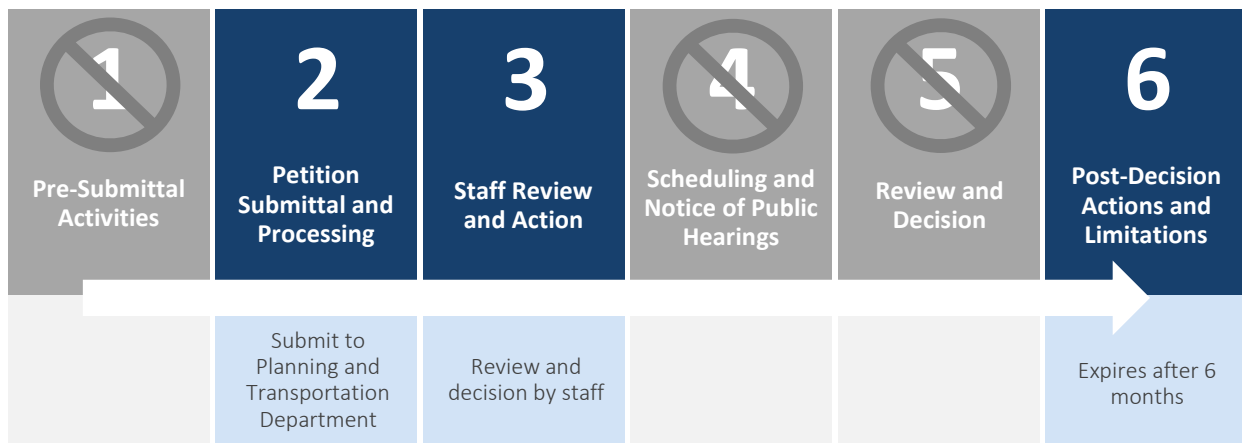
(B) Exemptions

Signs that are exempt from the sign permit requirement are specified in Section 20.04.100 (Signs).

(3) Sign Permit Review Process

Figure 06.05-11 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to sign permit review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-11: Summary of Sign Permit Review Procedure



(A) Petition Submittal and Processing

The sign permit petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(B) Staff Review and Action

- i. The Planning and Transportation staff shall review the sign permit petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in Section 20.06.040(d)(6)(B) (General Compliance Criteria).
- ii. A staff decision on the petition shall be made within 30 days of receipt of a complete petition.
- iii. If a petition for a sign permit is denied, and the denial is appealed to the Board of Zoning Appeals pursuant to Section 20.06.080(d) (Administrative Appeal), the Board of Zoning Appeals shall make a decision on the appeal at the next regularly scheduled hearing.

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Duration

The sign authorized by a sign permit shall be completed and erected within six months of the date of issuance; otherwise, the sign permit shall lapse and become null and void, unless good cause for an extension of time for completion is approved by the Planning and Transportation Director.

ii. Extension

One extension of up to six months may be authorized by the Planning and Transportation Director for reason/cause. The petitioner shall submit the request for extension in writing to the Planning and Transportation Director, and the Planning and Transportation Director shall make a written determination regarding his or her decision to extend or deny extension. Both the request and the determination shall be made part of the sign permit record.

iii. Changes or Amendments

When a sign permit has been issued, it shall be unlawful to change, modify, alter, or otherwise deviate from the terms and conditions of the sign permit without prior approval of the Planning and Transportation Director. When granted, a written record of such amendment shall be entered upon the original sign permit petition and maintained in the files of the Planning and Transportation Department.

(k) Temporary Use Permit

(1) Purpose

The temporary use procedure is intended to provide a mechanism for enforcement of the temporary use regulations of this UDO, in order to allow short-term and minor deviations for uses which are temporary in nature, which will not adversely impact surrounding properties and land uses, and which can be terminated and removed at will.

(2) Applicability**(A) Generally**

A Temporary Use Permit shall be required prior to the establishment of any temporary use, unless otherwise exempted in subsection (B) below.

(B) Exemptions

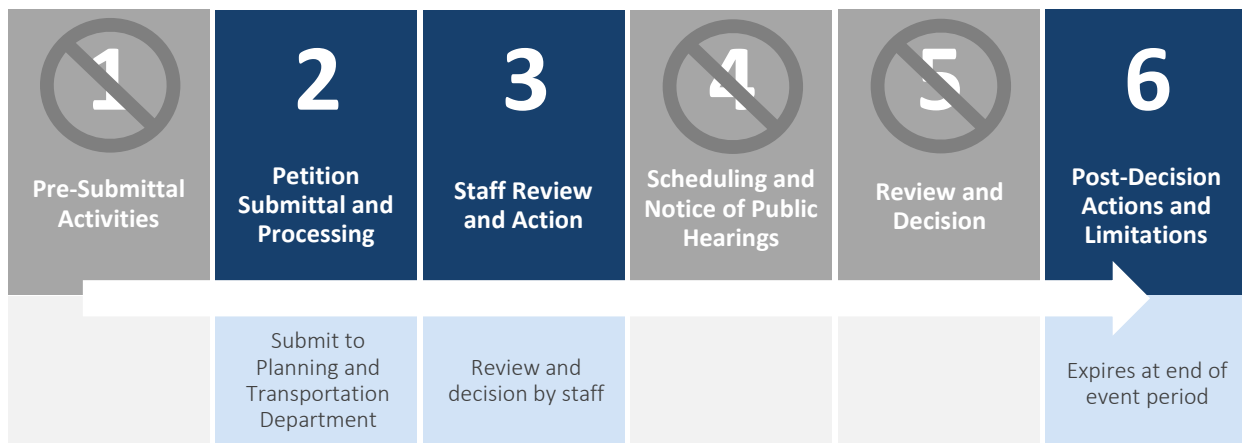
The following uses are permitted and shall not be regulated as temporary uses under this UDO.

- i. Garage or yard sales, tent meetings, nonprofit events and political rallies, provided they meet the following standards:
 1. The event is allowed for a maximum of seven consecutive days;
 2. No property shall hold more than three such events in a single calendar year; and
 3. The hours of operation of such events shall be limited to between the hours of 7:00 a.m. and 11:00 p.m.
- ii. Temporary structures used for collection of donation items by a non-profit organization, provided they are displayed for a maximum of 90 days.
- iii. Any business activity licensed by Title 4 (Business Licenses and Regulations), of the Bloomington Municipal Code.

(3) Temporary Use Permit Review Process

Figure 06.05-12 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to Temporary Use Permit review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-12: Summary of Temporary Use Permit Review Procedure

**(A) Petition Submittal and Processing**

The Temporary Use Permit petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(B) Staff Review and Action

The Planning and Transportation staff shall review the Temporary Use Permit petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in Section 20.06.040(d)(6)(B)i) (Compliance with this UDO), and Section 20.03.030(h) (Temporary Uses).

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

- i. Temporary uses shall be terminated and removed at the end of the event period unless otherwise specified in Section 20.03.030(h) (Temporary Uses).
- ii. A Temporary Use Permit may be granted only one time per year on any individual zoning lot and is nonrenewable. For purposes of this standard, fireworks, Halloween pumpkin, and Christmas tree sales are considered separate uses.

(I) Easements

(1) Purpose

The purpose of this section is to outline the procedures for obtaining and recording easements, modifying platted or unplatted easements, terminating unplatted easements, and vacating platted easements and to ensure that the statutory requirements of the Indiana Code are met.

(2) Applicability

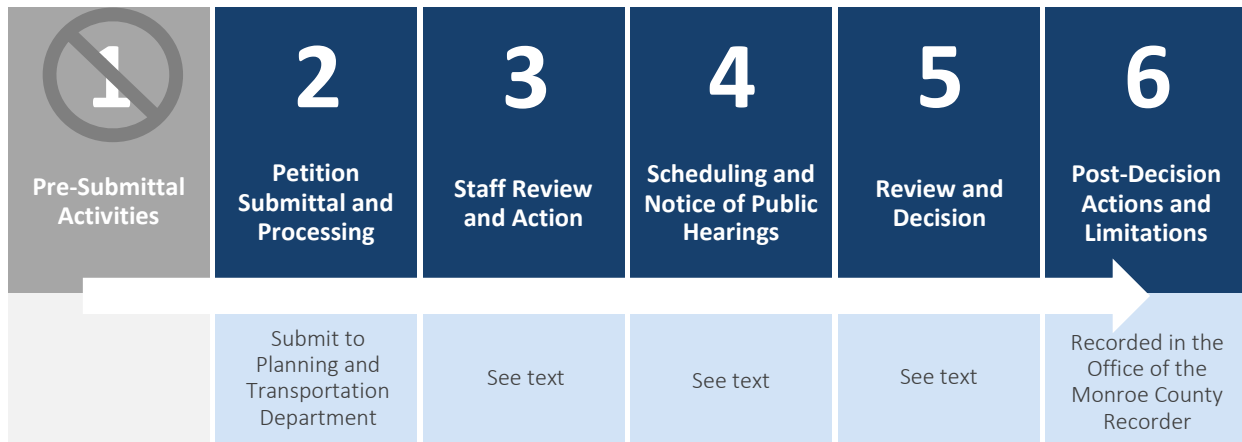
This section 20.06.050(I) governs easements that are:

- (A) Required and/or granted pursuant to a provision of this UDO;
- (B) Permitted or required as a commitment;
- (C) Permitted or required as a condition of approval; or
- (D) Shown on a recorded plat.

(3) Easement Review Process

Figure 06.05-13 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to easement review. Additions or modifications to the common review procedures are noted below.

Figure 06.05-13: Summary of Easement Review Procedure



(A) Petition Submittal and Processing

- i. The easement petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).
- ii. Either the grantor or the grantee of an easement may apply to the approving body for modification of an easement.
- iii. Persons who own or hold an interest in a lot or lots adjacent to a platted easement may petition the Common Council for vacation of the easement in the manner outlined in Indiana Code 36-7-3-12.
- iv. Any easement required by this UDO that is not included in a plat subject to Section 20.06.060 (Subdivision Procedures) shall comply with the procedure outlined in this Section 20.06.050(l).

(B) Staff Review and Action

i. Easements Not Required by Conditions or Commitments

The Planning and Transportation Director shall review the easement petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), if the Planning and Transportation Director determines that the proposed action complies with Section 20.06.040(d)(6)(B)iii (Compliance with Utility, Service, and Improvement Standards), and those general standards for easements in Section 20.05.040(b) as applicable, and will not create significant adverse impacts on surrounding properties.

ii. Easements Required by Conditions or Commitments

If the easement to be vacated was established as a result of a permitted or required commitment or condition of approval by the Plan Commission or Board of Zoning Appeals, the body that required the commitment or condition of approval shall approve both the easement vacation petition and the termination of the commitment or condition. The decision of that body shall be based on a determination as to whether the proposed action complies with Section 20.06.040(d)(6)(B)iii (Compliance with Utility, Service, and Improvement Standards), and those general standards for easements in Section 20.05.040(b) as applicable, and will not create significant adverse impacts on surrounding properties.

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Form

Easement instruments shall be prepared in a recordable form acceptable to the City Legal Department.

ii. Recording

Approved easement instruments shall be recorded in the County Recorder's office. The original recorded easement shall be delivered to the grantee and a copy shall be delivered to the Planning and Transportation Department.

iii. Covenants, Conditions, and Restrictions

Inclusion of language defining easements in an instrument creating covenants, conditions, and restrictions shall not be sufficient to create modify, terminate, or vacate an easement. Easement instruments shall be independently recorded documents that may be modified, terminated, or vacated only as provided in this UDO.

iv. Removal of Improvements

When applicable, the petitioner shall remove any improvements associated with the use of the easement prior to the termination of the easement.

v. Time Limitation

If an easement modification or termination petition has been denied, the petitioner shall not file a new petition with the same or substantially similar request for a period of six months.

20.06.060 Subdivision Procedures

(a) General Standards**(1) Purpose**

The purpose of these subdivision procedures, and the related standards in Chapter 20.05: (Subdivision Standards) is to guide the development of the Plan Commission's jurisdiction to provide for the improvement of the health, safety, convenience, and general welfare of its citizens and to plan for the future development of the community; to the end that streets and highways be carefully planned; that new areas grow only with adequate street/utility, health, education and recreational facilities; that the needs of public utilities and facilities be recognized in the future growth; and that residential areas provide healthy surroundings for family life and that the growth of the community is commensurate with the efficient and economical use of public funds.

(2) Applicability**(A) Generally**

This Section 20.06.060 shall apply to all subdivisions of land in any zoning district located within the jurisdiction of the Plan Commission, except as stated in subsection (B) below. No land within that jurisdiction shall be subdivided until:

- i. A plat conforming to these regulations has been approved and certified by the Plan Commission; and
- ii. The approved secondary plat has been filed with the County Recorder's office.

(B) Exemptions

The regulations of this Section 20.06.060 shall not apply to the following:

- i. An adjustment of lot lines as shown on a recorded plat which does not reduce the lots below the minimum zoning requirements of Chapter 2 and does not increase the original number of lots.
- ii. A division of land into two or more tracts for an agricultural use of 10 or more acres, not involving any new street or access easement.
- iii. An allocation of land in the settlement of an estate of a decedent or a court decree for the distribution of property.
- iv. The unwilling sale of land as a result of legal condemnation as defined and allowed in state law.
- v. Modification of existing streets to conform to the Comprehensive Plan.
- vi. The acquisition of street rights-of-way by a public agency in conformance with the Comprehensive Plan.
- vii. The exchange of land between owners of adjacent property provided that such exchange does not reduce the parcels below the minimum zoning requirements of Chapter 2 and does not increase the original number of parcels.
- viii. The platting of condominium units regulated by Indiana Code 32-25: Condominiums.

(C) Jurisdiction

After the provisions of this Section 20.06.060 (Subdivision Procedures) and related provisions in Chapter 20.05: (Subdivision Standards) have been adopted, the Plan Commission shall have exclusive control over the approval of all plats and replats involving land covered by this UDO.

(D) Subdivision Type

All subdivisions shall be designed according to one of the subdivision types specified in Chapter 20.05: Subdivision Standards. A single subdivision shall not incorporate more than one of the subdivision types unless specifically authorized by the Plan Commission.

(b) Primary Plat

(1) Purpose

The primary plat procedure provides a mechanism for the city to review an overall plan for a proposed subdivision and ensures that the statutory requirements established in the Indiana Code for the subdivision of land are met.

(2) Applicability

A primary plat shall be prepared in conjunction with any proposal to subdivide or plat property within the jurisdictional area of the Plan Commission.

(3) Primary Plat Review Process

Figure 06.06-1 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to primary plat review. Additions or modifications to the common review procedures are noted below.

Figure 06.06-1: Summary of Primary Plat Procedure**(A) Pre-Submittal Activities**

- i. A pre-submittal meeting shall be held in accordance with Section 20.06.040(b)(1)(Pre-Submittal Meeting).
- ii. A Development Review Committee meeting shall be held in accordance with Section 20.06.040(b)(1)(D)(Development Review Committee (DRC) Meeting).
- iii. For petitions subject to review and a decision by the Plan Commission, pre-submittal neighborhood meeting may be required by the Planning and Transportation Director, in accordance with Section 20.06.040(b)(3) (Pre-Submittal Neighborhood Meeting).

(B) Petition Submittal and Processing

The primary plat petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(C) Staff Review and Action

The planning and transportation staff shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action).

(D) Scheduling and Notice of Public Hearings

Within 30 days after receipt of a complete petition, the primary plat petition shall be scheduled for a public hearing before the Plan Commission or Plat Committee and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

(E) Review and Decision

The Plan Commission or Plat Committee shall review the primary subdivision petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(g) (Review and Decision), based on the general approval criteria in Section 20.06.040(d)(6) (Approval Criteria) and the following standards:

- i. All subdivision proposals shall be consistent with the need to minimize flood damage.

- ii. All subdivision proposals shall have public utilities and facilities such as sewer, gas, electrical, and water systems located and constructed to minimize flood damage.
- iii. All subdivision proposals shall have adequate drainage provided to reduce exposure to flood hazards.
- iv. Base flood elevation data shall be provided for subdivision proposals and other proposed development (including manufactured home parks and subdivisions), which is greater than the lesser of 50 lots or five acres.
- v. All subdivision proposals shall minimize development in the SFHA and/or limit intensity of development permitted in the SFHA.
- vi. All subdivision proposals shall ensure safe access into/out of SFHA for pedestrians and vehicles (especially emergency responders).

(F) Subdivision Waivers

Waivers from any standards within Chapter 5 shall be reviewed according to the following criteria:

- i. The granting of the subdivision waiver shall not be detrimental to the public safety, health, or general welfare, or injurious to other property; and
- ii. The conditions upon which the request for a Subdivision Waiver are based are unique to the property; and
- iii. The Subdivision Waiver shall not in any manner vary the provisions of the development standards, Comprehensive Plan, or Transportation Plan, except that waivers related to sidewalks and tree plots in the Transportation Plan may be requested.

(G) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Effect of Approval

- 1. All decisions of the Plan Commission or Plat Committee approving, denying, or placing conditions upon a primary plat must be in writing and signed by the president of the Plan Commission, the chair of the Plat Committee, or the Planning and Transportation Director.
- 2. The approval of a primary plat by the Plan Commission is strictly tentative, involving merely the general acceptability of the layout as submitted.

ii. Revisions to Primary Plat

Following Plan Commission approval, the petitioner shall submit revised copies of the plans that address the conditions required by the Plan Commission. The petitioner shall refer to the petition form to determine the format and number of copies of the revised plans to deliver to the Planning and Transportation Department.

iii. Expiration of Primary Plat

1. A secondary plat petition shall be filed no later than 12 months after the date of approval of the primary plat, otherwise the primary plat approval shall be considered void, to the extent permitted by Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete).
2. One extension of up to six months may be authorized by the Planning and Transportation Director for reason/cause. The petitioner shall submit the request for extension in writing to the Planning and Transportation Director, and the Planning and Transportation Director shall make a written determination regarding his or her decision to extend or deny extension. Both the request and the determination shall be made part of the primary plat record.

(c) Secondary Plat

(1) Purpose

The secondary plat procedure provides a mechanism for the city to review a petition for the secondary platting of a subdivision and ensures that the statutory requirements established in the Indiana Code for the subdivision of land are met.

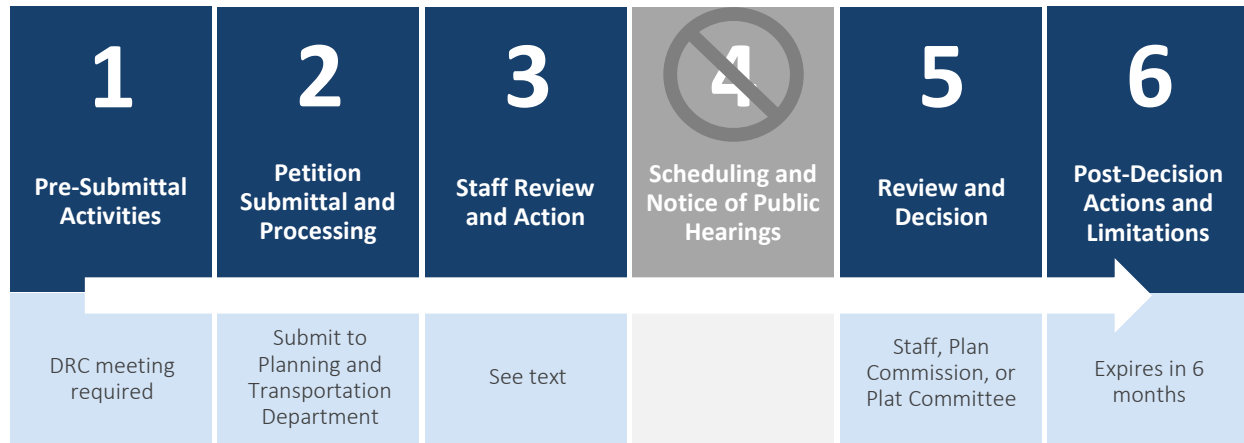
(2) Applicability

No secondary plat of a subdivision of land located within the jurisdiction of the Plan Commission shall be recorded in the Office of the Monroe County Recorder until the plat has been approved by the Plan Commission in accordance with the following requirements, standards, and specifications, and such approval has been entered in writing on the plat by the president of the Plan Commission, chair of the Plat Committee, or the Planning and Transportation Director.

(3) Secondary Plat Review Process

Figure 06.06-2 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to secondary plat review. Additions or modifications to the common review procedures are noted below.

Figure 06.06-2: Summary of Secondary Plat Procedure

**(A) Pre-Submittal Activities**

A Development Review Committee meeting shall be held in accordance with Section 20.06.040(b)(2) (Development Review Committee (DRC) Meeting).

(B) Petition Submittal and Processing

The secondary plat petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(C) Staff Review and Action

Staff review and action standards in Section 20.06.040(d) shall apply with the following modifications:

i. Review and Decision by Staff

1. If Table 06-1: Summary Table of Review Procedures authorizes the Plat Committee or Plan Commission to make a decision on a secondary plat, and the Plat Committee or Plan Commission determines that the application is not unusually complex or does not raise potentially unique or serious impacts on the city or the surrounding neighborhoods, the Plat Committee or Plan Commission may, at their discretion, refer the decision to the staff for decision pursuant to the same criteria that the Plat Committee or Plan Commission would have been required to apply to that decision.
2. Prior to approval of a secondary plat, the Plan Commission or Plat Committee shall have approved the primary plat; and the primary plat must not be expired.
3. The staff shall, based upon the facts presented for review, notify the petitioner in writing what revisions, changes, or further changes in the petition are needed for approval.

4. Following the petitioner's submittal of plans that incorporate the necessary revisions, the staff shall approve the secondary plat, or the Planning and Transportation Director may forward the secondary plat to the Plat Committee for review; or forward the secondary plat to the Plan Commission for review.

ii. Review and Decision by the Plan Commission or Plat Committee

If the Plan Commission elects to review the secondary plat, or delegates to the Plat Committee authority to review the secondary plat, then the Planning and Transportation Director shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action).

(D) Review and Decision

The Plan Commission or Plat Committee shall review the secondary subdivision petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(g) (Review and Decision), based on the general approval criteria in Section 20.06.040(d)(6)(B) (General Compliance Criteria).

(E) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Effect of Approval

1. After compliance with this UDO and upon approval of the secondary plat, the Planning and Transportation Director shall sign and seal the plat at the appropriate locations.
2. The staff shall then notify the petitioner of the Planning and Transportation Director's actions.
3. The petitioner shall then file the secondary plat for recording in the Office of the Monroe County Recorder, as required by law.
4. Within 30 days after recording the secondary plat, the petitioner shall provide the City Planning and Transportation Department with a copy of the recorded plat in a form acceptable to the city.

ii. Expiration of Secondary Plat

1. If the secondary plat, or a phase thereof, has not been recorded within a maximum period of six months from the date of approval by the Plan Commission or Plat Committee, the secondary plat shall be null and void and the secondary plat must again be submitted for approval, to the extent permitted by Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete).
2. For a secondary plat where an initial phase was recorded within six months of the date of approval by the Plan Commission or Plat Committee, successive phases shall be recorded within 18 months of the previous phase. If a successive phase fails to meet the 18-month requirement, the approval of the phases that have not been recorded shall be null and void, but only the secondary plat must again be submitted for approval, to the extent permitted by Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete).

iii. Financial Bond Required

1. Purpose

In conjunction with the approval of a secondary plat, the petitioner shall be required to provide a financial performance guarantee, by performance bond or an irrevocable, unconditional, acceptable letter of credit issued by a financial institution acceptable to the city, that all public facility improvements and installations required under the provisions of this UDO and Planning and Transportation and Engineering Departments requirements shall be completed.

2. Applicability

- [a] A performance agreement between the petitioner and the city, supported by a performance surety or irrevocable letter of credit, shall be required ensuring the timely and proper installation of required public facility improvements; provided, however, that any improvements to be dedicated to Monroe County within the City of Bloomington shall be bonded in accordance with Monroe County bonding policy.
- [b] The performance guarantee for each individual public facility improvement or installation may be handled separately and shall in no way be contingent on the completion of any other individual public facility improvements and installations or their performance guarantees.
- [c] The posting of a performance guarantee may be accepted for incomplete requirements that will be completed as per a written agreement with the city. The time period and amount of the performance guarantee shall be determined by the Board of Public Works and shall comply with Indiana Code § 36-7-4-709(i).
- [d] The posting of a performance guarantee is not required when the petitioner is the City of Bloomington.

3. Review

The City Engineering Department shall review the estimate upon receipt of a complete petition and supportive documents. The City Engineering Department shall verify that the performance bond or letter of credit shall:

- [a] Be in a sum of not less than one hundred twenty-five percent of the approved estimate of the total improvement construction cost of the project in order to be sufficient to complete the improvements and installations in compliance with this UDO and City Engineering Department requirements;
- [b] Provide bond satisfactory to the city or to the county;
- [c] Run to and be in favor of the city or the county;
- [d] Specify the time for the completion of the improvements and installations (both on site and off site);

- [e] Be in effect and shall not terminate until a period of two years after the date of substantial completion of the public improvements, but in no situation shall the performance bond or letter of credit be permitted to have an effective period greater than three years;
 - [f] Notwithstanding any partial release of the performance bond or letter of credit pursuant to subsection [e] above, the City shall require a maintenance bond to remain in effect for a period of two years after the certificate of final acceptance is approved. The maintenance bond shall be in the amount of five percent of the original performance bond, or \$10,000.00, whichever is greater, or as determined by the City Engineer; and
 - [g] Be in a form approved by the City Legal Department.
4. **Report**
The City Engineering shall recommend approval or rejection of the performance bond to the Board of Public Works.
 5. **Record**
The City Planning and Transportation and Engineering Departments shall maintain records of all petitions, plans, and permits filed for a performance bond.
 6. **Time Limit**
The completion of public facility improvements and installations shall be within two years of the approval of the project. The approval date of the project is the date of the Plan Commission or Plat Committee hearing at which the Secondary Plat was approved or the date the Planning and Transportation Director signed the Secondary Plat (if the Plat was delegated to staff approval.)
 7. **Extension of Completion Time**
Should the petitioner not complete the public facility improvements and installations as herein required within a two year period, the City Planning and Transportation Department may approve the petitioner's written request for an extension of time for up to one additional year, granted at six month intervals and conditioned in every case upon extension or renewal of the bond accordingly, for completion of the required public facility improvements and installations, but in no situation shall an extension of a performance bond or letter of credit be permitted to have an effective period greater than three years.
 8. **Nonperformance**
Should the petitioner not complete the public facility improvements and installations as required by this UDO within the two year period or within any time extension approved by the City Planning and Transportation Department, the city may take the necessary steps to proceed with the completion of the public facility improvements and installations, making use of the performance bond or letter of credit.

9. Expiration

The performance bond or letter of credit shall be in effect and shall not terminate until 30 calendar days after the certificate of final acceptance is approved by the City Engineering Department, and the maintenance bond has been accepted.

10. Performance Bond Reductions

- [a] Annual partial releases of performance sureties held by the city shall be approved by the City Engineering Department in accordance with a partial release schedule agreed to in a signed written document, after that document has been signed by the City Engineer or his or her designee, and the developer or his or her designee.
- [b] The following standards shall apply to any request for a bond reduction:
 - i. No more than three reductions shall be permitted within any 24-month period.
 - ii. No performance bond shall be reduced beyond 75 percent of the original bond amount.
 - iii. Periodic partial releases shall not occur before completion of at least 30 percent of the improvements covered by the performance bond.

(d) Vacating Plat

(1) Purpose

The vacating plat procedure provides a mechanism for the city to review a petition for the vacation of a subdivision and ensures that the statutory requirements established in the Indiana Code for the subdivision of land are met.

(2) Applicability**(A) Secondary Plat**

- i. The owner of land in a secondary plat may file with the Plan Commission or Plat Committee a petition to vacate all or part of the secondary plat pertaining to the land owned by the petitioner.
- ii. In a case in which not all the owners of land in a secondary plat are in agreement regarding a proposed vacation, one or more owners of the land in the secondary plat may file with the Plan Commission or Plat Committee a petition to vacate all of the secondary plat or only that part of the secondary plat that pertains to land owned by the petitioner or petitioners. A petition under this subsection shall:
 - 1. State the reasons for and the circumstances prompting the request;
 - 2. Specifically describe the property in the secondary plat proposed to be vacated; and
 - 3. Give the name and address of every other owner of land in the secondary plat.

(B) Rights-of-way

This plat vacation procedure shall not be used to vacate rights-of-way, regardless of whether they are platted. Rights-of-way shall be vacated pursuant to Indiana Code 36-7-3-12.

(C) Covenants or Commitments

The plat vacation petition may include a request to vacate any recorded covenants or commitments filed as part of the secondary plat. The covenants or commitments are then also subject to vacation.

(D) Easements

- i. This plat vacation procedure shall not be used to vacate platted easements. Platted easements shall be vacated pursuant to Section 20.06.050(l) (Easements).
- ii. Per Indiana Code 36-7-3-16, platted easements are vacated by the Common Council (see Section 20.09.310, Easements—Vacation).

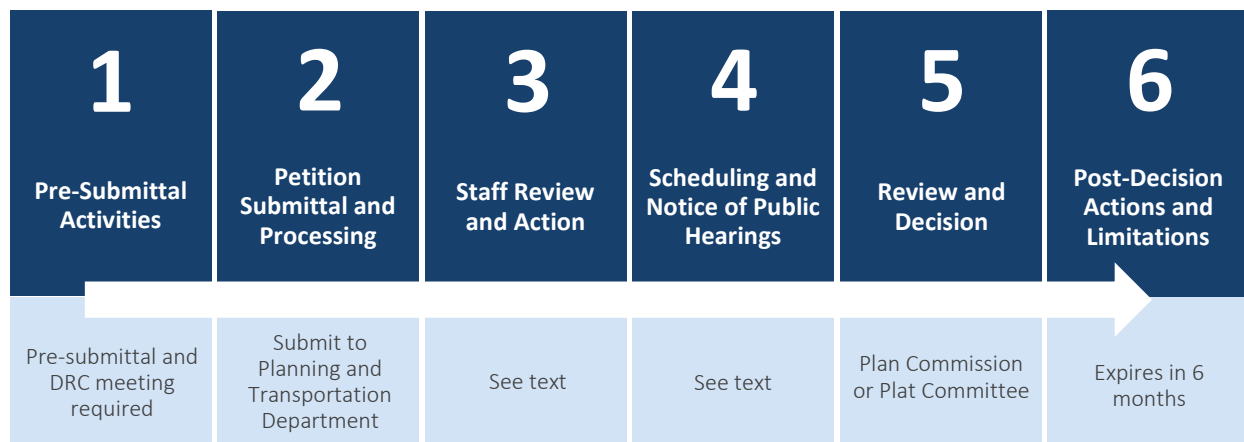
(E) Public Utilities

Notwithstanding the provisions of this Section 20.06.060(d), plat vacation proceedings do not deprive a public utility of the use of all or part of a public right-of-way or public place to be vacated, if, at the time the proceedings are instituted, the utility is occupying and using all or part of that public right-of-way or public place for the location and operation of its facilities. However, the utility may waive its rights under this section by filing its written consent in the plat vacation proceedings.

(3) Vacating Plat Review Process

Figure 06.06-3 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to the vacating plat review. Additions or modifications to the common review procedures are noted below.

Figure 06.06-3: Summary of Vacating Plat Procedure

**(A) Pre-Submittal Activities**

- i. A pre-submittal meeting shall be held in accordance with Section 20.06.040(b)(1)(Pre-Submittal Meeting).

- ii. A Development Review Committee meeting shall be held in accordance with Section 20.06.040(b)(1)(D)(Development Review Committee (DRC) Meeting).

(B) Petition Submittal and Processing

The vacating plat petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(C) Staff Review and Action

The Planning and Transportation staff shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action).

(D) Scheduling and Notice of Public Hearings

The vacating plat petition shall be scheduled for a public hearing before the Plan Commission or Plat Committee and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

(E) Review and Decision

The Plan Commission or Plat Committee shall review the vacating plat petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(g) (Review and Decision), based on the following specific approval criteria:

i. Grounds for Remonstrances and Objections

All persons may comment at the public hearing in accordance with the procedural rules of the Plan Commission or Plat Committee. A remonstrance or objection may be filed or raised by any person aggrieved by the proposed plat vacation, but only on one or more of the following grounds:

1. The plat vacation would hinder the growth or orderly development of the unit or neighborhood in which it is located or to which it is contiguous;
2. The plat vacation would make access to the lands of the aggrieved person by means of a public right-of-way difficult or inconvenient;
3. The plat vacation would hinder the public's access to a place of worship, school, or other public building or place; and/or
4. The plat vacation would hinder the use of a public right-of-way by the neighborhood in which it is located or to which it is contiguous.

ii. Findings of Fact

The Plan Commission or Plat Committee may approve the petition for plat vacation of all or part of a secondary plat only upon making written findings that:

1. Conditions in the platted area have changed so as to defeat the original purpose of the secondary plat;
2. It is in the public interest to vacate all or part of the secondary plat; and
3. The value of that part of the land in the secondary plat not owned by the petitioner will not be diminished by vacation.

(F) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Effect of Decision

1. The findings of fact shall be signed by the president of the Plan Commission or Plat Committee Chair.
2. The Plan Commission or Plat Committee shall furnish a copy of its decision to the Office of the Monroe County Recorder for recording.
3. The plat vacation instrument shall be signed by the president of the Plan Commission or Plat Committee Chair and the owner of the vacated property.
4. The petitioner shall record the plat vacation instrument in the Office of the Monroe County Recorder within 60 days of the approval of the plat vacation. Failure to record the vacation within that time period shall render the vacating plat null and void. The petitioner shall deliver a copy of the recorded plat vacation instrument to the City Planning and Transportation Department.

ii. Bond Requirement

In conjunction with the approval of a plat vacation, and unless determined to be unnecessary by the Plan Commission or Plat Committee, the petitioner shall provide financial bond for all public improvements pursuant to Section 20.06.060(c)(3)(E)iii (Financial Bond Required).

iii. Time Limitation

After the termination of a plat vacation proceeding under this section, a subsequent vacation proceeding affecting the same property and asking for the same relief may not be initiated for three years.

20.06.070 Plan and Ordinance Amendments

(a) Comprehensive Plan Amendment

The following procedure is established for review and amendment of the Comprehensive Plan.

- (1) The Plan Commission may recommend, and the Common Council may determine the appropriate interval for a review, but such review should be conducted once every four years.
- (2) Amendments to the Comprehensive Plan shall proceed pursuant to Indiana Code § 36-7-4, Series 500.

(b) Zoning Map Amendment**(1) Purpose**

The zoning map amendment procedure is intended to provide a mechanism for the city to consider a petition for the rezoning of real property within the jurisdictional area of the Plan Commission and to ensure that the statutory requirements established in the Indiana Code for the zoning of real property are met.

(2) Applicability

The zoning map amendment procedure applies to all proposals requesting to change the zoning district classification of a parcel of real property to a different zoning district classification. This procedure does not include changing the zoning classification of a parcel to a Planned Unit Development, which is governed by Section 20.06.070(c) (Rezoning to Planned Unit Development).

(3) Zoning Map Amendment Review Process

Figure 06.07-1 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to zoning map amendment review. Additions or modifications to the common review procedures are noted below.

Figure 06.07-1: Summary of Zoning Map Amendment Procedure

**(A) Pre-Submittal Activities**

- i. A pre-submittal meeting shall be held in accordance with Section 20.06.040(b)(1) (Pre-Submittal Meeting).
- ii. A Development Review Committee meeting shall be held in accordance with Section 20.06.040(b)(2) (Development Review Committee (DRC) Meeting).
- iii. A pre-submittal neighborhood meeting shall be held in accordance with Section 20.06.040(b)(3) (Pre-Submittal Neighborhood Meeting).

(B) Petition Submittal and Processing

The zoning map amendment petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(C) Staff Review and Action

The planning and transportation staff shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action).

(D) Scheduling and Notice of Public Hearings

- i. The zoning map amendment petition shall be scheduled for a public hearing before the Plan Commission and Common Council, and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

- ii. Mailed notice shall not be required if the Plan Commission or Common Council initiate a petition to repeal and replace the zone maps for all or substantially all of the City.

(E) Review and Decision

i. Plan Commission Review and Recommendation

1. The Plan Commission shall review the zoning map amendment petition and shall forward its recommendation to the Common Council in accordance with Section 20.06.040(g) (Review and Decision), based on the approval criteria in Section 20.06.040(d)(6) (Approval Criteria) and the following specific approval criteria:
 - [a] The recommendations of the Comprehensive Plan;
 - [b] Current conditions and character of structures and uses in each zoning district;
 - [c] The most desirable use for which the land in each zoning district is adapted;
 - [d] The conservation of sensitive environmental features;
 - [e] The conservation of property values throughout the jurisdiction; and
 - [f] Responsible development and growth.
2. The Plan Commission shall forward the petition to the Common Council with:
 - [a] A favorable recommendation;
 - [b] A favorable recommendation with conditions and/or commitments;
 - [c] A negative recommendation;
 - [d] No recommendation; or
 - [e] Continue the petition to a definite future meeting date.
3. If the petition has not been continued, the Plan Commission shall certify and forward the petition to the Common Council.

ii. Common Council Review and Decision

1. The Common Council shall act on the petition within 90 days of certification by the Plan Commission in accordance with Indiana Code 36-7-4-608.
2. Commitments may be allowed or required as part of a proposal to amend the zoning map under Indiana Code 36-7-4-608 and this UDO.

(F) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Effect of Approval of the Amendment

1. When an amendment of the Official Zoning Map is approved, such amendment shall be incorporated into the Official Zoning Map in the geographic information system maintained by the city.

2. For zoning map amendments located adjacent to public streets, all required right-of-way shall be dedicated in compliance with the transportation plan. Such dedication shall take place within 180 days of approval of the zoning map amendment. The 180-day time limit may be extended by the Planning and Transportation Director, but not unless the requirement is clearly specified in a recordable zoning commitment approved by the city.

ii. Automatic Termination of Commitments

A commitment made in connection with a zoning map amendment approval terminates automatically if, after adoption of the petition, the zoning district applicable to the area involved in the proposal is changed.

(c) Rezoning to Planned Unit Development (PUD)

(1) Purpose

The rezoning to a Planned Unit Development (PUD) procedure is established to achieve the purposes of Chapter 20.02.040 (Planned Unit Development (PUD) District) and to ensure that the statutory requirements established in the Indiana Code 36-7-4-1500 et seq are met. The PUD procedure shall not be used when a conditional use permit, variance, minor modification, or rezoning to an existing base zoning district could achieve a similar result.

(2) Applicability

- (A) This procedure applies to new Planned Unit Development (PUD) proposals, and to any proposed amendment to an existing Planned Unit Development that would affect either the text of the PUD district ordinance or the general layout of any element of the preliminary plan, and that does not qualify for approval pursuant to 20.06.080(a) (Minor Modification).
- (B) Any property owner in a district other than the MD district may propose a PUD zoning district in accordance with these procedures. A parcel proposed for a PUD is not required to be under single ownership. However, if not under single ownership, the multiple owners must all consent to the development of their individual properties consistent with the requirements of the proposed PUD district ordinance. Any transfer of land within the development resulting in ownership within the development by two or more parties after an application has been filed shall not alter the applicability of the regulations contained in the UDO. An approved preliminary plan shall be binding upon the petitioner, their successors and assigns and shall limit and control the issuance and validity of all certificates of zoning compliance.
- (C) All applications that involve subdivision of a parcel shall also be subject to the subdivision procedures established by Chapter 20.06: (Administration & Procedures).

(3) Rezoning to Planned Unit Development (PUD) Review Process

Figure 06.07-2 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to rezoning to planned development (PUD) review. Additions or modifications to the common review procedures are noted below.

Figure 06.07-2: Summary of Rezoning to Planned Unit Development (PUD) Procedure

**(A) Pre-Submittal Activities**

- i. A pre-submittal meeting shall be held in accordance with Section 20.06.040(b)(1) (Pre-Submittal Meeting).
- ii. A Development Review Committee meeting shall be held in accordance with Section 20.06.040(b)(2) (Development Review Committee (DRC) Meeting).
- iii. A pre-submittal neighborhood meeting shall be held in accordance with Section 20.06.040(b)(3) (Pre-Submittal Neighborhood Meeting).

(B) Petition Submittal and Processing

A petition for rezoning to a Planned Unit Development (PUD) petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing), with the following modifications:

i. PUD Plan Required

1. A petition for rezoning to a PUD shall include all submittal requirements as specified by the Planning and Transportation Director or required by the Administrative Manual
2. A preliminary PUD plan and then a final PUD plan is required, unless the Planning and Transportation Director determines that the proposed divergence from UDO standards is so minor that only a final PUD plan is needed.
3. The preliminary plan shall include the conceptual location of all required improvements.

Approval of the PUD plan is required prior to approval of a development permit in a PUD district.

ii. PUD Plan Contents

The submittal requirements and specifications for the PUD plan shall be established in the Administrative Manual.

iii. Petition

A petition for a Planned Unit Development shall not be considered complete until all information and documentation required by this subsection and the Administrative Manual has been submitted and all meetings required by 20.06.070(c)(3) have been completed.

(C) Staff Review and Action**i. PUD District Ordinance and Preliminary Plan**

The Planning and Transportation Director shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action).

ii. Final Plan

1. The Plan Commission may, by rule, delegate to staff authority to review final plans. If authority is delegated to staff, the Planning and Transportation Director shall review the petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in Section 20.06.040(d)(6) (Approval Criteria) and the specific approval criteria in Section 20.06.070(c)(4).

2. Staff may allow or require the owner to make a written commitment and shall have all powers and duties of the Plan Commission under this section except the power to approve modification or termination of a commitment.

3. Minor Deviations from Preliminary Plan

If the Planning and Transportation Director finds the final plan proposes minor deviations from the approved preliminary plan that do not require a PUD district ordinance amendment or a preliminary plan amendment pursuant to Section 20.06.070(c)(3)(E)i), and that do not change the concept or intent of the development, he or she may review and approve or deny the final plan without public notice or a public hearing, as authorized by rule of the Plan Commission. The Planning and Transportation Director's decision is subject to appeal under Section 20.06.070(c)(3)(E)ii.4).

4. Determination that Amendment is Required

[a] If the Planning and Transportation Director finds the final plan proposes changes to the approved PUD district ordinance, or deviations from the approved preliminary plan that require a preliminary plan amendment pursuant to Section 20.06.070(c)(3)(E)i), he or she shall not approve the final plan, but shall notify the petitioner that a PUD amendment is required pursuant to the procedures for approval of a new PUD district ordinance or preliminary plan.

- [b] If the petitioner disagrees with the Planning and Transportation Director's determination, he or she may request that the Plan Commission review the final plan and determine whether such amendment is required. Such request shall be submitted in writing to the Planning and Transportation Department not later than 14 days after the Planning and Transportation Director's determination is made.
- [c] The Plan Commission procedure upon such review shall be the same as for an appeal under Section 20.06.070(c)(3)(E)ii.4). If the Plan Commission determines that no amendment to the PUD district ordinance or preliminary plan is required, the Plan Commission shall review and act upon the final plan. In this case, the Plan Commission decision shall be final and appealable pursuant to Indiana Code 36-7-4-1016.
- [d] If the Plan Commission determines that an amendment is required pursuant to under Section 20.06.070(c)(3)(E)ii.4), the Plan Commission shall review the proposal as a PUD amendment petition and shall forward a recommendation to the Common Council, pursuant to the procedures for approval of a new PUD district ordinance or preliminary plan.

iii. **Scheduling and Notice of Public Hearings**

1. **PUD District Ordinance and Preliminary Plan**

The rezoning to a Planned Unit Development (PUD) petition shall be scheduled for a public hearing before the Plan Commission and Common Council, and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

2. **Final Plan**

The final plan petition shall be scheduled for a public hearing before the Plan Commission, and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings) when:

- [a] The Plan Commission recommends denial of the PUD district ordinance and preliminary plan; or
- [b] The Plan Commission provides no recommendation on the PUD district ordinance and preliminary plan and the Common Council approves the PUD district ordinance and preliminary plan.

(D) **Review and Decision**

i. **PUD District Ordinance and Preliminary Plan**

1. **Plan Commission Review and Recommendation**

The Plan Commission shall review the rezoning to a Planned Unit Development (PUD) petition and shall forward its recommendation to the Common Council in accordance with Section 20.06.040(g) (Review and Decision), based on the general approval criteria in Section 20.06.040(d)(6) (Approval Criteria) and the specific approval criteria in Section 20.06.070(c)(4) below.

- [a] The Plan Commission shall forward the petition to the Common Council with:
 - i. A favorable recommendation;

- ii. A favorable recommendation with conditions and/or commitments;
 - iii. A negative recommendation;
 - iv. No recommendation; or
 - v. Continue the petition to a definite future meeting date.
- [b] If the petition has not been continued, the Plan Commission shall certify and forward the petition to the Common Council.

2. **Changes by Plan Commission**

- [a] The Plan Commission may vote to favorably recommend a proposal with changes to the PUD district ordinance or to the preliminary plan if the petitioner agrees in writing to the changes. If the petitioner is unable to respond to the proposed changes prior to the vote, then such motion and vote shall be in the alternative: either for favorable recommendation, with the changes, contingent upon the petitioner's acceptance of the changes in writing within 10 days of the Plan Commission's approval, or, in the alternative, if the petitioner fails to accept the changes in writing within said specified time, the Plan Commission's motion and vote shall be to continue the petition to the next Plan Commission meeting.
- [b] The Plan Commission shall permit the petitioner to comment upon changes to the PUD district ordinance or to the preliminary plan made by the Plan Commission after a motion to approve with changes is made but prior to the vote, and the Plan Commission may amend its motion accordingly.

3. **Revisions**

Following Plan Commission approval, the petitioner shall submit revised copies of the PUD district ordinance and preliminary plan that address the comments, concerns, and conditions of approval of the Plan Commission. The petitioner shall refer to the petition form to determine the format and number of copies of the revised plans to deliver to the Planning and Transportation Department.

4. **Common Council Review and Decision**

- [a] The Common Council shall vote on the proposal within 90 days after the Plan Commission certifies the proposal in accordance with Indiana Code 36-7-4-608.
- [b] If the Plan Commission has given the proposal a favorable recommendation and the Common Council fails to act on the proposal within 90 days, the ordinance codified in this chapter takes effect as if it had been adopted (as certified) 90 days after certification.
- [c] If the Plan Commission has failed to make a recommendation or has given the proposal an unfavorable recommendation and the Common Council fails to act on the proposal within 90 days, the proposal is defeated.

- [d] The Common Council may adopt or reject the proposal and may also exercise powers set forth under the Indiana Code 36-7-4-1500 Series and this section. Those powers include imposing reasonable conditions, conditioning the issuance of a certificate of zoning compliance on bonds or certain guarantees, and allowing or requiring the owner of real property to make written commitments under Indiana Code 36-7-4-608.

ii. Final Plan

When the Plan Commission is the final review authority for a final plan, the Plan Commission shall review the petition and approve, approve with conditions, or deny the petition in accordance with Section 20.06.040(d) (Staff Review and Action), based on the general approval criteria in Section 20.06.040(d)(6) (Approval Criteria) and the specific approval criteria in Section 20.06.070(c)(4).

(E) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) shall apply with the following modifications:

i. Preliminary Plan

1. Effect of Approval

- [a] When a PUD district ordinance and preliminary plan for a Planned Unit Development have been approved by the Common Council, the PUD district ordinance and preliminary plan shall become effective and its location shall be shown on the Official Zoning Map. The Official Zoning Map shall be amended to designate the site as a PUD zoning district.
- [b] For PUDs located adjacent to existing public streets, all required right-of-way for such public streets shall be dedicated in compliance with the transportation plan. Such dedication shall take place within 180 days of approval of the PUD district ordinance. The 180-day time limit may be extended by the Planning and Transportation Director, but not unless the requirement is clearly specified in a recordable zoning commitment approved by the city.
- [c] Upon such amendment of the zoning map, the use and development of the site shall be governed by the PUD district ordinance and preliminary plan, subject to approval of a final plan.
- [d] No permit of any kind shall be issued until the final plan has been approved.

2. Duration

[a] Abandonment

The preliminary plan shall be considered abandoned if, three years after the approval of the preliminary plan by the Common Council, no final plan approval has been granted for any section of the Planned Unit Development. In such cases, the Plan Commission shall determine if the preliminary plan should be extended for a period up to a maximum of 180 days. If no extension is sought for the Planned Unit Development, and the three-year period since Common Council approval has elapsed, the Plan Commission may initiate a proposal to rezone the area designated as a Planned Unit Development to an appropriate zoning district. Any such rezoning shall follow the process provided in Section 20.06.070(b) (Zoning Map Amendment). The owner or owners of any property proposed to be rezoned by the Plan Commission under the provisions of this subsection shall be notified at least twenty-one days in advance of the Plan Commission public hearing on the proposed rezoning.

[b] Review

If, 10 years after the approval of the preliminary plan by the Common Council, final plan approval has been granted for one or more sections of the Planned Unit Development, but sections of the Planned Unit Development remain without approved final plans, the Plan Commission may, on its own initiative, make a recommendation to the Common Council to rezone those portions of the Planned Unit Development that do not have approved final plans to an appropriate zoning district.

3. Changes or Amendments

[a] PUD District Ordinance

Amendments to the PUD district ordinance shall follow the procedure for creating a new PUD district ordinance pursuant to this Section 20.06.070(c).

[b] Preliminary Plan

To the extent that a preliminary plan is a conceptual and general rendering of a proposed development conforming to the PUD district ordinance, a final plan may deviate from the approved preliminary plan in some respects without necessitating an amendment to the preliminary plan. However, any deviation from an approved preliminary plan that alters the concept or intent of the Planned Unit Development shall be subject to the procedure for approval of a new preliminary plan. The Plan Commission may require that a petition for preliminary plan amendment encompass the entire Planned Unit Development. Deviations that require a preliminary plan amendment include, but are not limited to, the following:

- i. Changes in the location, proportion or allocation of uses, or changes to the types of uses allowed;
- ii. Increases in residential density;

- iii. More than a 10 percent change to the proportion of housing types;
- iv. Substantial increase in the building envelope;
- v. More than a one percent reduction of proposed open space;
- vi. Changes in functional uses of open space, where such change constitutes an intensification of open space usage;
- vii. Substantial change in the ratio of off-street parking spaces to use;
- viii. Substantial changes in standards, continuity, or general location of roads, utilities, or stormwater management features; or
- ix. Substantive changes in the covenants, conditions and restrictions, or other governing agreements, that affect any matter regulated by this UDO.

ii. Final Plan

1. Effect of Approval

- [a] No permit of any kind shall be issued for any purpose within a Planned Unit Development zoning district except in accordance with the approved final plan. Any material deviation from the final plan is subject to appropriate enforcement action.
- [b] No permit of any kind shall be issued until the final plan has been approved.

2. Duration

[a] Abandonment

The final plan shall be considered abandoned if no ~~site development~~grading permits or building permits have been obtained and are still valid for the area contained in the final plan within three years after final plan approval has been granted, or if such permits have been obtained but are no longer valid per the terms of this UDO.

[b] Extension

An extension, not to exceed 12 months, may be granted by the Plan Commission for good cause shown. The Plan Commission may grant one 12-month extension.

3. Changes or Amendments

[a] Minor Changes

The Planning and Transportation Director may approve minor changes to an approved final plan, if the changes do not change the concept or intent of the development, without a public hearing or public notice as authorized by rule of the Plan Commission. Such decisions shall be subject to appeal pursuant to Section 20.06.070(c)(3)(E)ii.4). This shall include the following:

- i. Minor changes in the location and siting of buildings and structures;
- ii. Changes in height of less than one story, but not over eight feet in any case;

- iii. Minor changes to an approved landscape plan that do not alter the general concept or screening effectiveness of the landscaping;
- iv. Minor changes to the internal street system and off-street parking areas; and
- v. Changes in the exact type of use in any particular location within the development, as long as the type of use is allowed by the PUD district ordinance and preliminary plan in that general location.
- vi. Changes of less than ten percent of the gross floor area of an approved building.

[b] Major Changes

The following changes shall require a new final plan, provided that this subsection [b] shall not be interpreted to allow any change that would otherwise require an amendment to the PUD district ordinance and/or the preliminary plan:

- i. Changes in lot arrangement, or addition of buildable lots which do not change approved density of the development;
- ii. Changes in site design requirements, such as location or design of required landscaping, signage, building heights or footprints, setbacks, encroachment into areas slated for preservation under any of the sections of Section 20.04.030 (Environment), or other such development or design standards in the PUD district ordinance;
- iii. Changes in access to the development site, where such change amounts to an intensification of traffic patterns on roadways; and/or
- iv. Any reduction in aesthetic treatment.

4. Appeal to Plan Commission

Interested parties, as defined in Section 20.06.040(e)(2)(D) (Notice to Interested Parties), affected by the decision of the Planning and Transportation Director upon review of a final plan may within ten days of such decision request that the Plan Commission review the Planning and Transportation Director decision. Such request shall be in writing and shall specify the grounds of the appeal. A public hearing shall be required with notice pursuant to the Plan Commission rules of procedure. The Plan Commission may affirm, reverse, or modify the Planning and Transportation Director decision.

5. Revisions

Following final approval, the petitioner shall submit revised copies of the final plan that address the comments and concerns of the staff. The petitioner shall refer to the final plan petition form to determine the format and number of copies of the revised plans to deliver to the Planning and Transportation Department.

iii. Automatic Termination of Commitments

A commitment made in connection with the adoption of a PUD district ordinance or PUD final plan approval terminates automatically if, after adoption of the petition, the zoning district applicable to the area involved in the proposal is changed.

(4) Approval Criteria for Rezoning to a Planned District (PUD)

The Plan Commission and Common Council shall only approve a petition for rezoning to a PUD district if they determine that the petition:

- (A) Is consistent with the purpose of this UDO and the purpose of Section 20.02.040 (Planned Unit Development (PUD) District); and
- (B) The petitioner has demonstrated that the proposed rezoning is compatible with surrounding development or can be made compatible with surrounding development through commitments or conditions; and
- (C) Any portion of the PUD zoning district to be occupied by multifamily, mixed-use, or industrial development shall provide a greater level of internal connectivity and connectivity to surrounding developments than would be required by this UDO if the project were not being developed in a PUD zoning district; and
- (D) Each multifamily, mixed-use, or nonresidential principal structure in the PUD zoning district shall provide a greater level of design quality than would be required by this UDO if the project were not being developed in a PUD zoning district; and
- (E) At least one of the following criteria are met;
 - i. The proposed PUD zoning district will include construction of a substantial open space, recreational, entertainment, or cultural amenity that will be open to and usable by the general public, and that would not otherwise be required by this UDO. Reconfiguration of open space required by this UDO does not satisfy these criteria;
 - ii. The proposed PUD zoning district will protect a significant ecological, natural, historical, architectural, or archeological resource that was not already protected from development by this UDO or by state or federal law. Avoidance of designated floodplains or wetland areas, or the provision of additional buffers around such areas, does not satisfy these criteria; or
 - iii. The proposed PUD zoning district provides affordable housing beyond the amounts that the petitioner would have been required to provide in order to earn a Tier 1 or Tier 2 affordable housing incentive under Section 20.04.110(c)(5) by either:
 - 1. Income-restricting at least 10 percent more of the dwelling units at or below the income levels required to earn a Tier 1 or Tier 2 incentive, or
 - 2. Income restricting the same number of dwelling units required to earn a Tier 1 or Tier 2 affordable housing incentive, but limiting incomes to at least 10 percent lower AMI level than would have been required to earn a Tier 1 or Tier 2 incentive.20.04.110(c)(5)

(5) Changes to an Approved PUD District

- (A) Changes to the UDO that directly affect public health and safety shall apply to any PUD even if such changes are adopted during the PUD build-out.

- (B) To the extent permitted by Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete Petition), changes to the UDO that alter any development standards for which the PUD district ordinance is silent shall apply to portions of the PUD for which an approved site plan has not been approved before the date of the UDO change.
- (C) To the extent permitted by Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete Petition), if a PUD is no longer proceeding in accordance with its PUD district ordinance, commitments, or time requirements imposed through the procedures in this Section 20.06.070(c) or by agreement, amendments to the UDO may be applied to portions of the PUD for which an approved site plan has not been approved before the date of the UDO change.
- (D) After at least 95 percent of a PUD has been built-out, the PUD may be subject to being rezoned into an appropriate standard zoning district pursuant to Section 20.06.070(b) (Zoning Map Amendment).

(d) Zoning Text Amendment

(1) Purpose

The zoning text amendment procedure is intended to provide a mechanism for the city to consider a petition for an amendment to the text of this UDO and to ensure that the statutory requirements established in the Indiana Code for amending the ordinance text are met.

(2) Applicability

The zoning text amendment procedure applies to all proposals requesting to change the text of this UDO.

(3) Zoning Text Amendment Review Process

Figure 06.07-3 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to zoning text amendment review. Additions or modifications to the common review procedures are noted below.

Figure 06.07-3: Summary of Zoning Text Amendment Procedure



(A) Pre-Submittal Activities

A pre-submittal meeting shall be held in accordance with Section 20.06.040(b)(1) (Pre-Submittal Meeting).

(B) Petition Submittal and Processing

- i. Only the members of the Common Council or the Plan Commission shall have standing to initiate a proposal to amend the text of this UDO.
- ii. The staff shall prepare the proposal upon the direction of either the Plan Commission or the Common Council. The staff shall prepare the proposal so that it is consistent with Indiana Code § 36-7-4-601.

(C) Staff Review and Action

The Planning and Transportation Director shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action).

(D) Scheduling and Notice of Public Hearings

Within 60 days of initiating a proposal to amend the text of this UDO or of receiving a proposal from the Common Council, the zoning text amendment petition shall be scheduled for a public hearing before the Plan Commission and Common Council, and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

(E) Review and Decision**i. Plan Commission Review and Recommendation**

The Plan Commission shall review the zoning text amendment petition and shall forward its recommendation to the Common Council in accordance with Section 20.06.040(g) (Review and Decision), based on the specific approval criteria in Section 20.06.070(d)(4).

1. The Plan Commission shall certify and forward the proposal to the Common Council with:
 - [a] A favorable recommendation;
 - [b] A negative recommendation;
 - [c] No recommendation; or
 - [d] Continue the proposal to a definite future meeting date.

ii. Common Council Review and Decision

The Common Council shall vote on the proposal within 90 days of certification by the Plan Commission in accordance with Indiana Code § 36-7-4-607, which governs whether the proposal is adopted or defeated.

(F) Post-Decision Actions and Limitations

If the proposal is adopted by the Common Council pursuant to Indiana Code § 36-7-4-607, the Plan Commission shall arrange for the inclusion of the amended text in this UDO printed by the city.

(4) Approval Criteria for Zoning Text Amendment

In reviewing the proposal, the Plan Commission and Common Council shall pay reasonable regard to:

- (A) The Comprehensive Plan;
- (B) Current conditions and the character of current structures and uses in each zoning district;
- (C) The most desirable use of land in each zoning district;
- (D) The conservation of sensitive environmental features;
- (E) The conservation of property values throughout the jurisdiction; and
- (F) Responsible development and growth.

20.06.080 Flexibility and Relief Procedures

(a) Minor Modification

(1) Purpose

The minor modification procedure is intended to allow relatively small adjustments or deviations from the dimensional or numeric standards of this UDO where strict application of the UDO would result in practical difficulty or undue hardship preventing the use of the land as otherwise allowed by the UDO. Minor modifications are intended to provide greater flexibility when necessary, without requiring a formal zoning amendment or variance. The minor modification procedure is not a waiver of current standards of this UDO and shall not be used to circumvent the variance procedure.

(2) Applicability**(A) Other Incentives are Prerequisite**

All available incentives and allowances in this UDO shall be used before a minor modification may be considered, including but not limited to the exceptions in 20.04.020 (Dimensional Standards). (For example, a petitioner shall apply all available alternate standards for increased height before applying for a minor modification for increased height.)

(B) Table of Allowable Minor Modifications

A petition for a minor modification that is not related to a request for "reasonable accommodation" under the Federal Fair Housing Act or the Religious Land Use and Institutionalized Persons Act may request only the types of adjustments shown in Table 06-2: Allowable Minor Modifications.

Table 06-2: Allowable Minor Modifications

UDO Standard	Allowable Modification (maximum percentage)
Subdivision Standards	
Parent tract size, minimum	10

Table 06-2: Allowable Minor Modifications

UDO Standard	Allowable Modification (maximum percentage)
Open space required, minimum	5
Block length, minimum or maximum	10
Lot area, minimum	10
Lot Dimensional Standards	
Front building setback, minimum	Lots 6,000 square feet or smaller, 25
	Lots larger than 6,000 square feet, 15
Front parking setback, minimum	25
Front build-to range, minimum	25
Front building facade at build-to range, minimum	25
Side building setback, minimum	Lots 6,000 square feet or smaller, 25
	Lots larger than 6,000 square feet, 15
Rear building setback, minimum	Lots 6,000 square feet or smaller, 25
	Lots larger than 6,000 square feet, 15
Encroachment into setback pursuant to Table 04-6	10
Impervious surface coverage, maximum	5
Building Standards	
Primary structure height, maximum	10
Primary structure height, minimum	10
Student housing or dormitory building floor plate (maximum)	5
Accessory building height, maximum	10
Projection into height requirement pursuant to Table 04-7: Authorized Exceptions to Height Requirements	10
Development Standards	
Number of required vehicle or bicycle parking spaces, maximum or minimum	10
Minimum landscaped area	10
Fence or wall height, maximum	15

(C) Reasonable Accommodations Under the FFHA

- i. In response to a written petition identifying the type of housing being provided and the portions of the Federal Fair Housing Act that require that reasonable accommodations be made for such housing, the Planning and Transportation Director is authorized to take any of the following actions in order to provide reasonable accommodations without the need for a rezoning or variance:
 1. Modify any facility spacing, building setback, height, lot coverage, or landscaping requirement by no more than ten percent; or
 2. Reduce any off-street parking requirement by no more than one space.

- ii. The Planning and Transportation Director may approve a type of reasonable accommodation different from that requested by the petitioner if the Planning and Transportation Director concludes that a different form of accommodation would satisfy the requirements of the Federal Fair Housing Act with fewer impacts on adjacent areas. The decision of the Planning and Transportation Director shall be accompanied by written findings of fact as to the applicability of the Fair Housing Act, the need for reasonable accommodations, and the authority for any reasonable accommodations approved.

(D) Religious Land Use and Institutionalized Persons Act of 2000 (RLUIPA)

The Planning and Transportation Director may grant minor modifications in order to eliminate a substantial burden on religious exercise as guaranteed by the Federal Religious Land Use and Institutionalized Persons Act of 2000, as amended. In no circumstance shall the Planning and Transportation Director approve a modification that allows a religious assembly use, or any uses, structures, or activities accessory to it, in a zoning district where this UDO prohibits such use or accessory use, structure, or activity.

(3) Limitations on Minor Modifications

- (A) Except when requested as a reasonable accommodation for Fair Housing Act or Religious Land Use and Institutionalized Persons Act purposes, a request for a minor modification shall not be used to further modify a development standard that, as applied to the subject property, already qualifies as an exception to, or modification of, a generally applicable development standard required under Chapter 20.04: Development Standards & Incentives.
- (B) The minor modification procedure shall not apply to any proposed modification or deviation that results in:
 - i. A change in permitted uses or mix of uses;
 - ii. A deviation from building or fire codes;
 - iii. A deviation from engineering standards;
 - iv. Requirements for public roadways, utilities, or other public infrastructure or facilities; or
 - v. A change to a development standard where that same standard was already modified through a separate administrative adjustment or variance.

(4) Minor Modification Review Process

(A) Petition Submittal and Handling

A petition for a minor modification shall only be submitted and reviewed concurrently with a petition for a conditional use permit, temporary use permit, site plan review (minor or major), certificate of zoning compliance, or plat approval (primary or secondary). Each UDO standard in Table 06-2 shall be considered a separate minor modification request as it relates to the approval criteria in Section 20.06.080(a)(5), but multiple modifications may be considered in one minor modification petition.

(B) Review and Decision

- i. Where the concurrently reviewed petition requires review and approval by the planning and transportation staff, the Planning and Transportation Director shall review the petition and shall approve, approve with conditions, or deny the modification based on the criteria in Section 20.06.080(a)(5).
- ii. Where the concurrently reviewed petition requires review and approval by the Plan Commission, Plat Committee, or Common Council, the decision making body, as applicable, shall review and decide the minor modification petition based on the criteria in Section 20.06.080(a)(5).

(C) Effect of Approval

Approval of a minor modification authorizes only the particular adjustment of standards approved, and only to the subject property of the petition.

(D) Expiration of Minor Modification

A minor modification shall automatically expire if the associated development petition is denied or if approval of the concurrently reviewed petition expires, is revoked, or otherwise deemed invalid.

(5) Minor Modification Approval Criteria

A minor modification may be approved if the decision-making body finds that the modification:

- (A) Will not create a hardship or adverse impacts on adjacent properties unless adequately mitigated;
- (B) Is not necessitated by the petitioner's actions; and
- (C) Is of a technical nature and is required to compensate for an unusual site condition or to protect a sensitive resource, natural feature, or community asset.

(b) Variance

(1) Purpose

The variance procedure provides a mechanism for the City to authorize variances from the development standards of this UDO when it is demonstrated that such a variance will not be contrary to the public interest or the spirit of this UDO, where, owing to special conditions, literal enforcement of this UDO will result in practical difficulties or unnecessary hardship.

(2) Applicability**(A) Development Standards Variance**

- i. The Board of Zoning Appeals or Hearing Officer, in accordance with the procedures established in this UDO, may grant variances from the development standards applicable to the zoning district in which the subject property is located.
- ii. It is not within the jurisdiction of the Board of Zoning Appeals or Hearing Officer to grant development standards variances of Chapter 20.05: Subdivision Standards.

(B) Floodplain Variance

- i. The Board of Zoning Appeals or Hearing Officer, in accordance with the procedures established in this UDO, may grant variances from the standards in Section 20.04.040(e) (Provisions for Flood Hazard Reduction), only when a new structure is to be located on a lot of one half acre or less in size, contiguous to and surrounded by lots with existing structures constructed below the flood protection grade.
- ii. Variances may be granted for the reconstruction, restoration, repair, or rehabilitation of any structure individually listed on the National Register of Historic Places or the Indiana State Register of Historic Sites and Structures. Upon a determination that the proposed repair or rehabilitation will not preclude the structure's continued designation as an "historic structure" and the variance is the minimum to preserve the historic character and design of the structure.
- iii. No variance for a residential use within a floodway that requires a permit for construction in a floodway from the Indiana Department of Natural Resources pursuant to the provisions of IC 14-28-1 or a project that is subject to 20.04.040(e)(2)(C) may be granted.

(3) Variance Review Process

Figure 06.05-3 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to variance review. Additions or modifications to the common review procedures are noted below.

Figure 06.08-1: Summary of Variance Procedure**(A) Pre-Submittal Activities**

- i. A pre-submittal meeting shall be held in accordance with Section 20.06.040(b)(1) (Pre-Submittal Meeting).
- ii. Petitions subject to review and decision by the Hearing Officer shall not require a Development Review Committee meeting.

- iii. For petitions subject to review and decision by the Board of Zoning Appeals, a Development Review Committee meeting may be required at the discretion of the Planning and Transportation Director, in accordance with Section 20.06.040(b)(2) (Development Review Committee (DRC) Meeting).

(B) Petition Submittal and Processing

The variance petition shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).

(C) Staff Review and Action

The planning and transportation staff shall review the petition and prepare a staff report and recommendation in accordance with Section 20.06.040(d) (Staff Review and Action).

(D) Scheduling and Notice of Public Hearings

The variance petition shall be scheduled for a public hearing before the Board of Zoning Appeals or Hearing Officer and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

(E) Review and Decision

The Hearing Officer or Board of Zoning Appeals shall review the variance petition and approve, approve with conditions or commitments, or deny the petition in accordance with Section 20.06.040(g) (Review and Decision), based on the following approval criteria.

i. Development Standards Variance

Pursuant to Indiana Code 36-7-4-918.5, the Board of Zoning Appeals or Hearing Officer may grant a variance from the development standards of this UDO if, after a public hearing, it makes findings of fact in writing, that:

1. General Approval Criteria

- [a] The approval will not be injurious to the public health, safety, morals, and general welfare of the community; and
- [b] The use and value of the area adjacent to the property included in the development standards variance will not be affected in a substantially adverse manner; and
- [c] The strict application of the terms of this UDO will result in practical difficulties in the use of the property; that the practical difficulties are peculiar to the property in question; that the development standards variance will relieve the practical difficulties.

2. Affordable Housing Incentive Criteria

In addition to the general approval criteria in subsection (1) above, the Board of Zoning Appeals or Hearing Officer may grant a variance from Section 20.04.070(d)(5) (Neighborhood Transition Standards) for any project that qualifies for the affordable housing incentives established in Section 20.04.110(c) (Affordable Housing) if the petitioner can demonstrate that:

- [a] The neighborhood transition standards substantially reduce or eliminate the building height incentive that would otherwise be allowed through the affordable housing incentive; and.
- [b] The development impact to abutting and adjacent properties is minimized through building placement, design, and massing.

3. **Determinate Sidewalk Variance Approval Criteria**

While not to be included as separate findings of fact, items to consider when determining the practical difficulties or peculiar conditions associated with a determinate sidewalk variance include, but are not limited to:

- [a] That the topography of the lot or tract together with the topography of the adjacent lots or tract and the nature of the street right-of-way make it impractical for construction of a sidewalk; or
- [b] That the pedestrian traffic reasonably to be anticipated over and along the street adjoining such lot or tract upon which new construction is to be erected is not and will not be such as to require sidewalks to be provided for the safety of pedestrians; or
- [c] The adjacent lot or tracts are at present developed without sidewalks and there is no reasonable expectation of additional sidewalk connections on the block in the near future; or
- [d] The location of the lot or tract is such that a complete pedestrian network is present on the other side of the street on the same block; or
- [e] Uniformity of development of the area would best be served by deferring sidewalk construction on the lot or tract until some future date.

ii. **Floodplain Variance**

1. **Review Considerations**

In reviewing floodplain variance requests, the Board of Zoning Appeals or the Hearing Officer shall consider all technical evaluations, all relevant factors, all standards specified in other sections of this ordinance, and the following:

- [a] The danger of life and property due to flooding or erosion damage.
- [b] The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.
- [c] The importance of the services provided by the proposed facility to the community.
- [d] The necessity of the facility to a waterfront location, where applicable.
- [e] The availability of alternative locations for the proposed use which are not subject to flooding or erosion damage.
- [f] The compatibility of the proposed use with existing and anticipated development.
- [g] The relationship of the proposed use to the Comprehensive Plan and floodplain management program for that area.

- [h] The safety of access to the property in times of flood for ordinary and emergency vehicles.
- [i] The expected height, velocity, duration, rate of rise, and sediment of transport of the floodwaters at the site.
- [j] The costs of providing governmental services during and after flood conditions, including maintenance and repair of public utilities and facilities such as sewer, gas, electrical, and water systems, and streets and bridges.

2. Review Criteria

The Board of Zoning Appeals or the Hearing Officer may grant a floodplain variance if, after a public hearing, it makes findings of fact in writing, that there is:

- [a] A showing of good and sufficient cause;
- [b] A determination that failure to grant the variance would result in exceptional hardship;
- [c] A determination that the variance is the minimum necessary, considering the flood hazard, to afford relief; and
- [d] A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, create nuisances, cause fraud or victimization of the public, or conflict with existing laws or ordinances;

iii. Commitments

1. The Board of Zoning Appeals or the Hearing Officer may allow or require the owner of a parcel of real property to make a written and recorded zoning commitment concerning use and/or development of that parcel in connection with approval of a variance pursuant to Section 20.06.040(d)(8) (Commitments).
2. Upon approval of a determinate sidewalk variance, the Planning and Transportation Department staff shall prepare a zoning commitment indicating that the determinate sidewalk variance was approved, and that future installation of sidewalk may be required. The petitioner shall record the zoning commitment in the Monroe Office of the Monroe County Recorder before a certificate of zoning compliance is issued.
3. If the owner of a parcel of real estate fails to accept a condition imposed, or to make a commitment allowed or required, by the Hearing Officer, then the owner's petition shall be considered withdrawn or, if requested by the owner, shall be transferred to the Board of Zoning Appeals.

(F) Post-Decision Actions and Limitations

i. Effect of Approval

1. The granting of a variance from the development standards authorizes the development and establishes the terms of use.
2. Variances are also subject to site plan requirements, all necessary permits and approvals, and other applicable requirements. All required permits shall be obtained before any site developmentgrading, construction, or use commences.

ii. Signature and Notice**1. Generally**

- [a] The findings of fact shall be signed by the chair of the Board of Zoning Appeals or the Hearing Officer.
- [b] The staff shall furnish the petitioner with a copy of the decision of the Board of Zoning Appeals or Hearing Officer.

2. Floodplain Variance

- [a] Any applicant to whom a variance is granted that allows the lowest floor of a structure to be built below the flood protection grade shall be given written notice over the signature of a community official that:
 - i. Specifies the difference between the Flood Protection Grade and the elevation to which the lowest floor is to be built and stating that the cost of the flood insurance will be commensurate with the increased risk resulting from the reduced lowest floor elevation.
 - ii. Clarifies the issuance of a variance to construct a structure below the flood protection grade will result in increased premium rates for flood insurance up to amounts as high as 25 dollars for 100 dollars of insurance coverage; and
 - iii. Such construction below the flood protection grade increases risks to life and property.
- [b] The Floodplain Administrator shall maintain a record of all variance actions, including justification for their issuance.

iii. Duration

Unless otherwise specified at the time of approval, any variance granted by the Board of Zoning Appeals or Hearing Officer shall expire:

- 1. In cases where new construction or modifications to an existing structure are required, three years after the date that the variance was granted, unless a building permit has been obtained and construction of the structure or structures has commenced; or
- 2. In cases where new construction or modifications to an existing structure are not required, three years after the date that the variance was granted, unless a Certificate of Occupancy has been obtained and the use commenced; or
- 3. At the date of termination as established by the Board of Zoning Appeals or Hearing Officer as a condition or commitment if different from (iii)(1) or (iii)(2) above.

(c) Administrative Interpretation

(1) Purpose

The administrative interpretation procedure is intended to provide a uniform mechanism for rendering formal written interpretations of this UDO.

(2) Authority

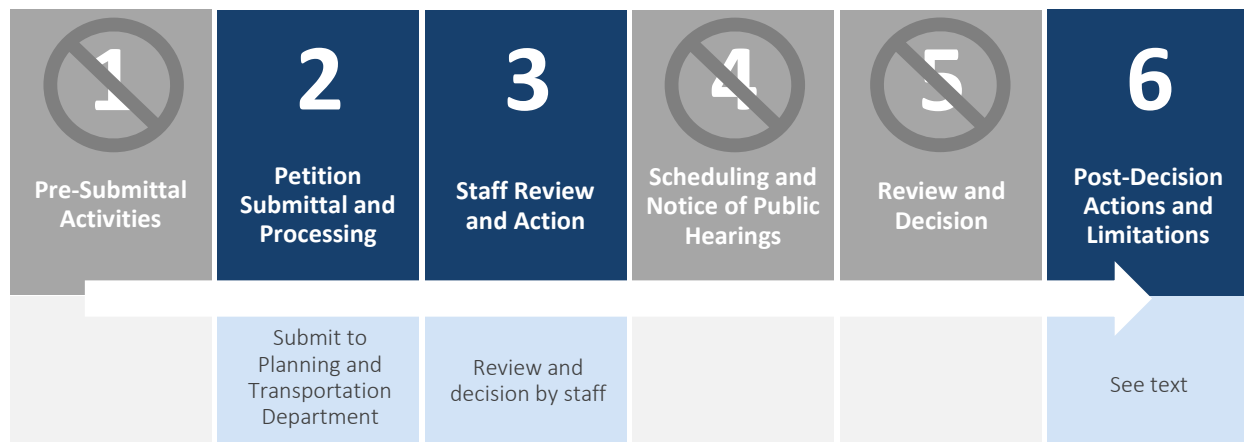
Responsibility for making interpretations of provisions of this UDO is assigned as follows:

- (A) The Planning and Transportation Director shall be responsible for all interpretations of the zoning and subdivision provisions in the text of this UDO, including, but not limited to: interpretations as to which is the stricter and thus controlling provision in case of conflict with this UDO and other provisions of the Bloomington Municipal Code; interpretations of compliance with a condition of approval; and interpretations of whether an unspecified use falls within a use classification, use category, or use type allowed in a zoning district. The Planning and Transportation Director shall also be responsible for interpretations of the zoning district boundaries on the Official Zoning Map.
- (B) The City Engineer shall be responsible for all interpretations of the floodplain and engineering provisions in the text of this UDO.

(3) Interpretation Procedure

Figure 06.08-2 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to administrative interpretation review. Additions or modifications to the common review procedures are noted below.

Figure 06.08-2: Summary of Administrative Interpretation Review Procedure

**(A) Petition Submittal and Processing**

- i. A request for administrative interpretation shall be submitted, accepted, and revised, and may be withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing).
- ii. A request for administrative interpretation may be filed by any person having a legal or equitable interest in property that gives rise to the need for an interpretation; provided that interpretations shall not be sought by any person based solely on hypothetical circumstances or where the interpretation would have no effect other than as an advisory opinion.

(B) Staff Review and Action

The Planning and Transportation staff or Traffic and Transportation Engineer (as applicable) shall review the request for interpretation, shall consult with the City Attorney and affected city officials, and shall render a decision based on the following specific approval criteria:

i. General Interpretation

The interpretation shall be consistent with:

1. The purposes of this UDO; and
2. The purposes of the zoning district (and overlay district(s), if applicable) in which the property is located; and
3. If the interpretation is based on the meaning of specific words that are not defined in this UDO, adopted city regulations, or the Indiana Code, with common use of words in the English language; and
4. Prior interpretations of the UDO on similar or related topics, to the maximum extent practicable, unless a modification or replacement of a prior interpretation would be more consistent with criteria 1 through 3 above.

ii. Use Interpretation

1. The Planning and Transportation Director shall determine if the proposed use is included in the definition of a listed use or is so similar to a listed use that it should be treated as the same use.
2. When determining the level of permission or associated use-specific standards, the size, scale, operating characteristics, multi-modal traffic impacts, storm drainage impacts, utility impacts, and neighborhood impacts of the proposed use shall be considered.
3. The Planning and Transportation Director shall consult with the city attorney and affected city officials before rendering the interpretation.

(C) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) (Post-Decision Actions and Limitations), shall apply, with the following modifications:

i. Notice

1. The Planning and Transportation Director shall inform the petitioner in writing of his or her interpretation, stating any specific precedent, the reasons, and the analysis upon which the determination is based.
2. The decision shall be in the form of a written interpretation and shall be made available to the public.

ii. Effect of Approval

1. The interpretation shall be binding on subsequent decisions by the Planning and Transportation Director, traffic or transportation engineer, or other city administrative officials (as applicable) in applying the same provision of this UDO or the Official Zoning Map in the same circumstance, unless the decision-making body makes a different interpretation, or this UDO is amended to treat the interpretation differently, or the interpretation is reversed or modified on appeal to the Board of Zoning Appeals or a court of law.
2. No written interpretation shall authorize the development, construction, reconstruction, alteration, or moving of any building or structure, but shall merely authorize the preparation, filing, and processing of petitions for any permits and approvals that may be required by the ordinances of the City.
3. A land use determination finding a particular use to be permitted, or allowed as a conditional use in a particular zoning district, shall be deemed to authorize only the particular use for which it was issued, and such interpretation shall not be deemed to authorize any allegedly similar use for which a separate land use determination has not been issued.

iii. Official Record of Interpretations

The Planning and Transportation Department shall maintain a record of written interpretations that shall be available for public inspection, on reasonable request, during normal business hours.

iv. Board of Zoning Appeals

The Board of Zoning Appeals shall, pursuant to Section 20.06.080(d) (Administrative Appeal), hear and decide appeals from any administrative interpretation by the Planning and Transportation Director or traffic and transportation engineer acting pursuant to his or her authority and duties under this UDO.

(4) Criteria for Interpretations**(A) Text Provisions**

Interpretation of text provisions and their petition shall be based on the following considerations:

- i. The clear and plain meaning of the provision's wording, as defined by the meaning and significance given specific terms used in the provision as established in Chapter 20.07: Definitions, and by the common and accepted usage of the term;
- ii. The intended purpose of the provision, as indicated by purpose statements, its context and consistency with surrounding and related provisions, and any legislative history to its adoption;
- iii. The general purposes served by this UDO, as set forth in Section 20.01.010(b) (Purpose);
- iv. Consistency with the Comprehensive Plan; and
- v. Consistency with the measurement standards of this UDO.

(B) Zoning Map Boundaries

Interpretation of zoning district boundaries on the Official Zoning Map shall be in accordance with the standards in Section 20.02.010 (Zoning Districts Established), and consistent with the Comprehensive Plan.

(C) Use Regulations

Interpretations of land use determinations shall be based on the following considerations:

- i. Any listed use defined in Chapter 20.07: Definitions, shall be interpreted as defined in that section;
- ii. No land use determination shall authorize any use in any zoning district unless evidence is presented demonstrating that it will comply with the general zoning regulations established for that particular zoning district;
- iii. No land use determination shall authorize any use in a particular zoning district unless such use is substantially similar to other uses specifically listed as permitted or conditional in such zoning district and is more similar to such uses than to other uses listed as permitted or conditional in another zoning district;
- iv. If the proposed use is most similar to a use allowed only as a conditional use in the zoning district, then any land use determination authorizing such use shall be subject to conditional use approval pursuant to Section 20.06.050(b) (Conditional Use Permit); and
- v. No land use determination shall allow the establishment of any use that would be inconsistent with the statement of purpose of the zoning district in question, unless such use meets the standard of either (iii) or (iv) above.

(d) Administrative Appeal

(1) Purpose

The administrative appeal procedure is employed by the City in order to afford citizens an avenue of appeal when there is some doubt that an administrative official, Hearing Officer, staff member, administrative board or other body, except the Plan Commission, has rendered a correct interpretation of the applicable ordinances and regulations while administering or enforcing of any part of this UDO.

(2) Applicability

- (A) An administrative appeal may be made by any person aggrieved by an order, requirement, decision, or determination made by an administrative official, Hearing Officer, staff member, administrative board or other body, except the Plan Commission, charged with the administration or enforcement of any part of this UDO.
- (B) This administrative appeals section shall not apply to fines levied under the authority of Section 20.06.100 (Enforcement and Penalties). Such fines may be appealed under the procedures specified in Section 20.06.100 (Enforcement and Penalties).

(3) Administrative Appeal Review Process

Figure 06.08-3 identifies the applicable steps from 20.06.040 (Common Review Procedures) that apply to administrative appeal review. Additions or modifications to the common review procedures are noted below.

Figure 06.08-3: Summary of Administrative Appeal Procedure

**(A) Petition**

An appeal petition shall be submitted and accepted, and may be revised or withdrawn, in accordance with Section 20.06.040(c) (Petition Submittal and Processing), with the following modifications:

i. Burden of Proof on Petitioner

The petitioner has the burden of proving the necessary facts to warrant approval of an appeal by the appropriate decision-making body. Such proof shall be provided at time of petition.

ii. Time Limit

An administrative appeal shall be filed with the Planning and Transportation Department within ten days of the order, requirement, decision, or determination that is being appealed.

iii. Stay of Proceedings

An appeal stays all proceedings from further action unless the Planning and Transportation Director determines that a stay would create adverse impacts to the health, safety, or welfare of the city or neighborhood.

iv. Stop Work Order

When an appeal from the decision of an administrative official or body has been filed, the Planning and Transportation Director may issue a stop work order on the premises affected.

(B) Staff Review and Action

The planning and transportation staff shall review the petition and prepare a staff report in accordance with Section 20.06.040(d) (Staff Review and Action) with the following modifications:

- i. Staff review shall only confirm that the petition is complete and that the appeal is heard by the appropriate authority.
- ii. The staff report shall not make a formal recommendation. The report shall include necessary facts to warrant an appeal, which shall be provided by the appellant/petitioner.

(C) Scheduling and Notice of Public Hearings

The appeal shall be scheduled for a public hearing before the Board of Zoning Appeals and noticed in accordance with 20.06.040(e) (Scheduling and Notice of Public Hearings).

(D) Review and Decision

- i. The appropriate decision-making body shall affirm, reverse, or amend a decision or interpretation made by another decision-making body in accordance with the approval criteria in Section 20.06.080(d)(3)(F).
- ii. The appeal decision-making authority may reverse a previous decision in whole or in part, or may modify the order, requirement, decision, or determination appealed from.
- iii. The appeal decision-making authority may attach conditions of approval on any appeal to ensure the health, safety, and welfare of the City.

(E) Post-Decision Actions and Limitations

Post-decision actions and limitations in Section 20.06.040(h) (Post-Decision Actions and Limitations) shall apply. Any further appeals from the appropriate appeal decision-making authority shall be made to the courts in accordance with State law.

(F) Appeals Approval Criteria

In considering an appeal, the Board of Zoning Appeals shall consider the approval criteria applicable to all petitions in Section 20.06.040(d) (Staff Review and Action), the specific approval criteria in Section 20.06.050 through Section 20.06.080, and shall consider the following:

- i. The written statement and supportive material submitted by the appellant;
- ii. The record of action supplied by the administrative official or body from which the appeal is taken;
- iii. The written and oral testimony of the public;
- iv. The testimony of the appellant;
- v. The requirements and intent of the applicable standards from this UDO compared to the written decision that is being appealed; and
- vi. The testimony of the administrative official or body from which the appeal is taken.

20.06.090 Nonconformities

(a) Purpose

This Section 20.06.090(d), is intended to regulate and limit the development and continued existence of uses, structures, lots, signs, and site features that were lawfully established prior to the effective date of this UDO, but that no longer conform to the requirements of this UDO. All such situations are collectively referred to in this section as “nonconformities.” While nonconformities may continue, the provisions of this section are designed to curtail substantial investment in nonconformities to bring about their eventual elimination in order to preserve the integrity of this UDO and the goals of the City.

(b) Regulations Applicable to All Nonconformities

(1) Generally

Any lot, site, structure, or land use which does not conform with one or more provisions of this UDO, but which lawfully existed upon the effective date of the provisions of this UDO with which the lot, structure or use does not conform, shall be a lawful nonconforming lot, site, use, or structure within the meaning of this section.

(2) Authority to Continue

A lawful nonconforming lot, site, use, or structure may continue except as provided in this section and in Section 20.01.040(a)(2) (Uses Rendered Nonconforming), and Section 20.01.040(a)(3) (Buildings, Structures, and Lots Rendered Nonconforming).

(3) Determination of Nonconformity Status

The burden of establishing the existence of a nonconformity shall be solely on the owner of the property containing the nonconformity.

(4) Certificate of Nonconforming Use

In order to protect the lawful nonconforming status of a nonconforming use, a person who owns or operates a nonconforming use may request a certificate of nonconforming use pursuant to Section 20.06.050(i) (Certificate of Nonconforming Use).

(5) Maintenance and Minor Repair

- (A) Minor repairs and maintenance of nonconformities are permitted and encouraged, provided that the repairs and maintenance do not increase the degree of nonconformity and that they conform to the building code and other applicable regulations of this UDO. Minor repairs and maintenance include the following:
 - i. Repairs necessary to maintain and to correct any damage or deterioration to the structural soundness of, or the exterior or interior appearance of, a building or structure without expanding the height or footprint of the building or structure, unless compliant with this UDO;
 - ii. Maintenance of land to protect against and mitigate health and environmental hazards;
 - iii. Repairs that are required to remedy unsafe conditions; and

iv. Repairs necessary to comply with current building code requirements.

- (B) Normal maintenance and repair do not include the razing of walls to the foundation and rebuilding, nor does it include altering a structure which contains a lawful nonconforming use in any way which results in additional bedrooms or other habitable space.

(6) Change in Ownership or Tenancy

Changes in ownership, tenancy, or management of property with an existing nonconformity may occur, but such nonconformities shall continue to be subject to the standards of this Section 20.06.090 (Nonconformities).

(7) Compliance to the Maximum Extent Practicable

Where compliance with the requirements of this section is precluded by a lack of sufficient developable area due to the size of the lot, the layout of existing development, or the presence of significant wetlands, floodplains, watercourses, hazard areas, or other significant environmental features, the petitioner shall comply with the requirements of this section to the maximum extent practicable, as determined by the Planning and Transportation Director.

(c) Nonconforming Uses

Nonconforming uses of land, buildings, or structures are subject to the following additional limitations:

(1) Limitations on Continuation of Nonconforming Uses

- (A) A nonconforming use may be extended throughout a conforming building or structure, provided that:
- i. No structural alteration of the building (or portion of such building containing the nonconforming use in the case of buildings with multiple uses) shall be permitted;
 - ii. No additional dwelling units shall be permitted in the building;
 - iii. No additional nonresidential units and/or uses shall be permitted; and
 - iv. Such extension would not result in a violation of the parking standards pursuant to Section 20.04.060 (Parking and Loading).
- (B) Any existing occupied conforming single-family residential dwelling that is deemed to be a nonconforming use may make improvements to the main and accessory structures so long as improvements do not increase the degree of nonconformity or increase the height or building footprint.
- (C) A nonconforming use that is located in a nonconforming building or structure or on a lot with nonconforming site features shall comply with the requirements of Sections 20.06.090(d) and 20.06.090(f) as applicable.
- (D) No additional structure not conforming to the requirements of this UDO shall be erected in connection with the nonconforming use of land or structure.
- (E) Whenever a nonconforming use of land or a building has been discontinued for a period of one-year, future use of land or building shall comply with this UDO.

(2) Change in Use

- (A) A nonconforming use that has been changed to a less nonconforming use pursuant to this subsection may not subsequently be changed back to a more nonconforming use.

- (B) A nonconforming use, if changed to a conforming use, may not subsequently be changed back to any nonconforming use unless otherwise permitted by this UDO.
- (C) A lawful nonconforming use which has been abandoned, including a use involving occupancy by four or five adults which has been voluntarily waived and relinquished pursuant to Section 20.06.090(c)(4) (Residential Occupancy), shall not be resumed or replaced by another nonconforming use.

(3) Abandonment of a Nonconforming Use

A lawful nonconforming use shall be deemed abandoned when the nonconforming use has been replaced by a conforming use or when the nonconforming use has ceased and has not been resumed for a continuous period of twelve months, or when the furnishings have been removed and not replaced for a continuous period of twelve months.

(4) Residential Occupancy

(A) Authority to Continue

In the R1, R2, R3, and R4 zoning districts, a nonconforming use involving occupancy of a dwelling unit by four or five adults who are not all related to each other, which was duly registered on or before October 1, 1985, in accordance with Ordinance 85-15; or was duly registered on or before November 1, 1995, in accordance with Ordinance No. 95-21, shall be deemed a lawful nonconforming use which may be continued under this UDO, without further registration, and shall be considered a lawful nonconforming use that may continue only as provided in this section.

(B) Transition from Prior Regulations

- i. Where a lawfully existing dwelling unit was lawfully occupied by four or five adults who were not all related to each other on the effective date of this UDO, but becomes nonconforming under this UDO because of being so occupied, the property owner may register such property as a lawful nonconforming use, and if properly and timely registered, such use will be a lawful nonconforming use which may be continued under this UDO without further registration.
- ii. Forms for such registration shall be available in the Planning and Transportation Department and shall be completed by the property owner or agent and filed in the Planning and Transportation Department within 180 days of the effective date of this UDO.
- iii. For existing structures, the use to be vested pursuant to this provision shall be the use lawfully in effect as of the effective date of this UDO, or the predominant lawful use for the preceding five years, whichever is greater.

(C) Pending or Approved Building Permit

- i. When a complete building permit application has been filed with the Monroe County Building Department, where the proposed structure included a nonconforming use involving a dwelling unit intended for occupancy by four or five adults who are not all related to each other shall be considered a lawful nonconforming subject to the following:

1. The building permit application conforms to all applicable regulations in effect at the time of application;
 2. The property owner's intention to accommodate said four or five adults is stated in writing;
 3. The property was registered pursuant to this subsection within 180 days of the effective date of this UDO;
 4. The property was lawfully eligible for occupancy by four or five adults not all related to each other prior to the effective date of this UDO;
 5. The building permit application was filed prior to the effective date of this UDO, unless otherwise provided by Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete).
- ii. In the event that said application or permit expires or is suspended or revoked as provided in the Bloomington Municipal Code or other applicable regulation of the city or Monroe County, any new permit application may be subject to the regulations in this UDO, subject to Section 20.01.040(b) (Effect of Change in the Law after Filing of Complete).

(D) Abandonment of Residential Occupancy

Where such a use is classified as a lawful nonconforming use under this Section 20.06.090(c)(4), the use shall not be subject to termination through cessation or abandonment except when the right to continue such a lawful nonconforming use is terminated by the owner's execution and proper recording in the chain of title, in a form acceptable to city staff, of an express, voluntary, permanent, and irrevocable waiver and relinquishment of such right.

(d) Nonconforming Structures

(1) Authority to Continue

A lawfully nonconforming structure may continue in its existing condition unless and until full or limited compliance with the development standards of this UDO is required as set forth in Section 20.06.090(f)(2) and the following provisions. No increase in the degree of nonconformity with any development standard is permitted except as expressly provided herein.

(2) Nonconforming Structures in Regulated Floodplains

(A) Changes to Structures

Any structure or use located in a regulated floodplain shall be governed by the general regulations of this Section 20.06.090 to the extent that nonconformance is related to requirements other than those governing regulated floodplains. To the extent that nonconformance is related to the regulations of the regulated floodplains, modifications to a lawful nonconforming structure are allowed where:

- i. A permit is issued by the Department of Natural Resources for such modifications; and

- ii. If the addition, in combination with all other additions to the abode or residence that have been constructed since the abode or residence was originally built, would increase the market value of the abode or residence to an amount more than fifty percent (50%) greater than: (1) the market value of the abode or residence if no additions have been constructed since the abode or residence was originally built; or (2) the approximate market value the abode or residence would have in the form in which the abode or residence was originally built if at least one (1) addition has already been constructed. (d) For the purposes of subsection (c), the market value of an abode or a residence does not include the value of the land on which the abode or residence is built.

(B) Replacement of Structures

A lawful nonconforming structure or any structure which contains a lawful nonconforming use which has been partly or completely destroyed or removed by accidental cause, including Acts of God, may be replaced, provided the elevation of the lowest floor, including the basement floor, must be at least two feet above the regulatory flood elevation; all necessary permits must be obtained from the Department of Natural Resources and all other applicable requirements of state law are met; and that application for a building permit must be made within six months of the date of destruction or removal.

(3) Restoration and Repairs

A lawful nonconforming structure, or a structure containing a lawful nonconforming use, may be restored when the conditions of this Section 20.06.090 have been met regardless of other regulations in this UDO. Replacement, restoration, and repairs shall conform to building code and other applicable regulations set forth by the Bloomington Municipal Code.

(4) Structure Damaged or Destroyed

- (A) A lawful nonconforming structure or a structure which contains or is associated with a lawful nonconforming use, which has been partly or completely destroyed or removed by accidental cause, including Acts of God, may be replaced, provided the owner or agent makes application for a building permit within six months of the date of destruction or removal.
- (B) The replacement structure shall be placed on the footprint of the old structure, may not be higher than the old structure, and shall be substantially the same architecture and constructed of similar materials, unless any deviation would bring the structure or use into or closer to compliance with the regulations of this UDO, to the extent possible and to the extent permitted by building code or other applicable regulation.

(e) Nonconforming Lots

A lawfully nonconforming lot may continue in its existing condition unless and until full or limited compliance with the development standards of this UDO is required as established in Section 20.06.090 (Nonconformities).

- (1) All lots legally established and recorded prior to the effective date of this UDO or its subsequent amendments that do not meet the lot area and lot width standards of this UDO shall be deemed a substandard lot, otherwise known as a lawful nonconforming lot of record.

- (2) A lawful nonconforming lot of record may be used and developed or redeveloped without compliance with the lot area and lot width standards of this UDO as long as all use restrictions and other development standards of this UDO are met.

(f) Nonconforming Site Features

A lawfully nonconforming site feature may continue in its existing condition unless and until full or limited compliance with the development standards of this UDO is required. No increase in the degree of nonconformity with any site feature is permitted except as expressly provided in this section.

(1) Full Compliance

A lawful nonconforming site shall be brought into compliance with this UDO with any petition for new building construction or in connection with demolition of existing and construction of new buildings.

(2) Limited Compliance

(A) Applicability

A lawful nonconforming site or structure shall be brought into compliance with the standards in paragraph (B) below when any of the following occur on the site:

i. Nonresidential and Mixed-Use

1. Any change in use, expansion, enlargement, or relocation of any use;
2. Reestablishment of a prior conforming use that has been discontinued for a period of 12 months or longer; or
3. Expansions, alterations, or modifications that increase the gross floor area of the building by more than 10 cumulative percent, including previous additions approved under any UDO effective since February 12, 2007.

ii. Multifamily and Group Living

1. Any expansions, alterations, or modifications to an existing building, with the exception of accessory structures less than 580 square feet, provided that the accessory structure does not increase the degree of nonconformity regarding required maximum impervious surface coverage or required number of parking spaces;
2. Any change in use, or any expansion, enlargement, or relocation of any use; or
3. Any addition of dwelling units.

iii. Single-Family Detached, Duplex, Triplex, and Fourplexes

A lawful nonconforming use or site feature on a lot where the primary use is a single-family detached, duplex, triplex, or fourplex dwelling may continue except as provided below:

1. Enlargement or modification of an existing driveway shall be subject to Section 20.04.050(c)(3)(C) (Surface Material); and
2. Changes to nonconforming uses and structures containing nonconforming uses involving occupancy of unrelated adults are subject to Section 20.06.090(c)(4) (Residential Occupancy).

(B) Required Compliance

A lawful nonconforming site or structure that meets or exceeds the thresholds established in paragraph (A) above shall comply with the following standards:

i. Building Setbacks and Height

Existing buildings shall not be subject to current setback or height standards and shall remain lawful nonconforming unless completely demolished and replaced, in which case full compliance with this UDO shall be required.

ii. Parking Setback and Maximum Number of Spaces

All parking spaces over the maximum number of spaces allowed must be removed. If all setbacks cannot be met through the removal of excess parking spaces, then priority shall be given to the parking spaces located in the front setback. If on a corner lot, then priority for front setbacks shall be given for the side facing the higher classified street. Any parking spaces or asphalt that encroaches into public right-of-way or adjacent property not owned by the petitioner must be removed.

iii. Parking

Any change in use or reestablishment of an abandoned conforming use must meet parking requirements of Section 20.04.060 (Parking and Loading). Any expansion, enlargement, or relocation of an existing conforming use, or addition to any building of more than ten percent of the gross floor area may not increase the degree of nonconformity regarding the required number of parking spaces.

iv. Paving

Any substandard parking surfaces shall be brought into compliance with Section 20.04.060(i)(7) (Surface Material).

v. ADA-accessible Parking

All required ADA-accessible parking spaces must be installed in accordance with Section 20.04.060(f) (Accessible Parking). If no additional room for parking is available, the number of parking spaces provided may be decreased enough to provide adequate ADA-accessible aisles.

vi. Bicycle Parking

All required bicycle parking must be installed per Section 20.04.060(l) (Minimum Bicycle Parking Required) and Section 20.04.060(m) (Bicycle Parking Location and Design).

vii. Landscaping

If full compliance with Section 20.04.080 (General Landscaping) cannot be achieved due to lack of adequate planting area, all yard areas must be landscaped to the maximum practicable density with a priority given to shade tree installation.

viii. Pedestrian Facilities

Any street frontage without existing pedestrian facilities shall be required to install pedestrian facilities per Section 20.04.050(d) (Pedestrian and Bicycle Circulation). If substandard pedestrian facilities exist, new facilities shall not be required if existing facilities are in functional condition, except that curb ramps shall comply with the Americans with Disabilities Act.

ix. Signage

All signage must be brought into compliance with Section 20.04.100 (Signs) to the extent practicable, although freestanding signs may use existing setbacks where the sign is not located within a restricted vision clearance area.

x. Dumpster Enclosures

All outdoor waste collection facilities must be brought into compliance with Section 20.04.080(m) (Screening).

xi. Lighting

All lighting shall be brought into compliance with Section 20.04.090 (Outdoor Lighting).

xii. Entrances and Drives

All entrances and drives shall be brought into compliance with Section 20.04.050(c) (Driveways and Access), with the exception of driveway location requirements.

xiii. Minimum Landscape Area

If a site can be brought closer to compliance with the Minimum Landscape Area standards through the removal of excess asphalt, gravel, parking, or other impervious surfaces necessary to achieve the minimum amount of landscape area requirement, then such impervious area shall be removed and landscape area and vegetation installed.

xiv. Fencing

Any fence or wall that contains prohibited components must remove the prohibited components only.

(g) Nonconforming Signs

(1) Generally

- (A) Notwithstanding any other provision of this chapter or this UDO, a lawful nonconforming sign may not be altered, relocated or expanded, which includes any increase in height or area, except as expressly provided in this Section 20.06.090(g).
- (B) Ordinary maintenance is permitted and shall include replacement of supports with different materials or design from the previous supports but shall not include any increase in the dimensions or numbers of supports.
- (C) A lawful nonconforming sign may be relocated only where the sign cannot be left in its existing location as a result of right-of-way acquisition and/or construction, widening or other improvement to any public sidewalk, path, trail, street, road, alley, or other public right-of-way or facility, by the city. For purposes of this section, a sign cannot be left in its existing location where it would be within the new public right-of-way; or would physically obstruct the public improvements; or, where its location would pose a safety hazard, which shall include but not be limited to being within a redefined vision clearance triangle.

- (D) In situations described in subsection (C) above, the sign may be relocated upon the same zoning lot as its original location, if the board or commission with authority to acquire right-of-way in the particular case declines to seek purchase of full sign rights for permanent removal of the sign.
 - (E) A sign that is relocated under this Section 20.06.090(g)(1) shall be brought into compliance with all development standards in its new location to the extent practicable, as determined by the staff, which may consider the factors listed in 20.06.090(g)(2), among others, in determining practicability.
- (2) **Practicability of Compliance with Development Standards**
- In determining the practicability of bringing lawful nonconforming signs into compliance with development standards pursuant to Section 20.06.090(f) (Nonconforming Site Features), the staff may consider the availability of public funds for any required compensation to any person, and/or whether or not waivers have been provided pursuant to Section 20.04.100(h) (Waiver of Right to Damages).
- (3) **Repair**
- Minor changes to a lawfully nonconforming sign shall be permitted only where necessary in order to keep the sign in good and safe repair and operating condition; such changes may include replacement of supports with different materials or design, but shall not include any enlargement to the dimensions of such supports or any increase in the number of such supports.

20.06.100 Enforcement and Penalties

(a) Authority

All departments, officials, and public employees of the City that are vested with the duty or authority to review and/or issue permits shall conform to the provisions of this UDO and shall issue no permit for any use, building, activity or purpose which would be in conflict with the provisions of this UDO. Any permit issued in conflict with the provisions of this UDO shall be null and void. The Planning and Transportation Director and his or her designee are designated enforcement officials with full authority to investigate, issue notices of violation, and secure remedies, including but not limited to injunctive relief, for any violation of this UDO.

(b) Penalties and Remedies for Violations

- (1) For the purposes of this UDO, a violation shall be defined as violation of or failure to comply with:
 - (A) Any provision or requirement of this UDO; or
 - (B) Any condition, requirement or commitment established with the approval of a variance, conditional use, site plan, Planned Unit Development, subdivision, certificate of zoning compliance, or other development approval under this UDO; or
 - (C) The required elements of the submission on the basis of which any permit or approval has been rendered hereunder.

- (2) Any violation as defined herein is hereby declared a common and public nuisance, and any person who is a responsible party as defined in Section 20.06.100(e) with respect to such violation shall, in addition to any other penalty or remedy provided herein, be liable for maintaining a common and public nuisance.
- (3) Any violation shall be subject to the penalties and remedies provided in this Section 20.06.100, and the City shall have recourse to any remedy available in law or equity.
- (4) Each day that any violation continues shall be considered a separate violation for purposes of the penalties and remedies specified in this chapter. A violation continues to exist until corrected. Correction includes, but is not limited to:
 - (A) Cessation of an unlawful practice;
 - (B) Removal of a building, structure, or other improvement;
 - (C) Faithful or otherwise-approved restoration or replacement of a building, structure, site or natural feature;
 - (D) Any other remedy specified in this UDO; and/or
 - (E) Other remedy acceptable to the City.
- (5) The City Legal Department may institute appropriate action to impose and collect fines and/or other penalties; to enforce or defend any action taken pursuant to Section 20.06.100(e)(5); and to prevent, enjoin, abate, remove or correct any violation of or noncompliance with this UDO or any condition, requirement, or commitment established in connection with this UDO or any development approval hereunder.
- (6) In addition to all other penalties and remedies provided for herein, if a building or structure is demolished (which shall include partial demolition) in violation of Section 20.06.050(c) (Demolition Delay Permit), then, for a period of two years following such demolition, no new certificate of zoning compliance authorizing any use or any release of a building or demolition permit shall be issued for any activity upon the lot of record upon which the building or structure was located, or any adjoining lot of record under common ownership or control, except for an approved restoration or replacement of the demolished building or structure, or as otherwise agreed to by the City or ordered by the Court in enforcement proceedings. The Planning and Transportation Director shall be authorized to execute and record in the Office of the Monroe County Recorder a sworn statement containing these restrictions upon the properties affected thereby.
- (7) In addition to all other penalties and remedies provided for herein, where the violation is removal of one or more trees contrary to Section 20.04.030(h)~~20.04.030(i)~~ (Tree and Forest Preservation), the responsible party shall be required to meet the following requirements:
 - (A) Replace the removed trees with healthy trees of similar species.
 - i. The aggregate caliper of replacement trees shall equal the aggregate caliper of removed trees. Determination of total caliper to be replaced shall be made by the Planning and Transportation Director.
 - ii. The size of replacement trees shall be the largest reasonably available which can either be planted or transplanted from another location.

- iii. Replacement trees shall be planted in the same location where the existing trees were removed. If all of the replacement trees cannot be planted in the area where existing trees were removed without endangering their health, an alternative planting location shall be identified, subject to the approval of the Planning and Transportation Director.
 - (B) Restore the area around the replacement trees, and the original disturbed area if applicable, by backfilling all holes and creating acceptable grade and covering.
- (8) In addition to all other penalties and remedies provided for herein, where the violation is disturbance of other environmental features as outlined in Section 20.04.030 (Environment), the responsible party shall be required to meet the following requirements, and no violation shall be deemed corrected for purposes of fining until all required steps are completed:
 - (A) Submit a remediation plan to the Planning and Transportation Department indicating how the disturbed area shall be restored to its pre-disturbed condition. The Planning and Transportation Director may require the utilization of native seed mixes and native plantings to restore areas to their pre-disturbed condition.
 - (B) Remediation plans shall be submitted by the responsible party within seven days of receiving notice from the Planning and Transportation Department.
 - (C) An approved remediation plan must be fully carried out as soon as reasonably possible. A violation shall be deemed corrected as of the date of submission of a remediation plan if such plan is subsequently approved and if such plan is fully carried out as soon as reasonably possible. However, any unreasonable delay in implementation of the plan may result in each day of the period of delay being deemed an additional violation subject to the maximum fine provided for in this UDO.
- (9) In addition to all other penalties and remedies provided for herein, the City may refuse to issue any certificate of zoning compliance, certificate of occupancy, or other permit or approval for any use, development, occupancy or other activity upon or concerning any lot or parcel created in violation of Chapter 20.05: Subdivision Standards and/or Section 20.06.060 (Subdivision Procedures) of this UDO. The City may further take legal action to restrain and enjoin further violations, including but not limited to sales or offers of sales of lots or parcels, in violation of Chapter 20.05: Subdivision Standards and/or Section 20.06.060 (Subdivision Procedures).
- (10) The remedies provided for in this UDO shall be cumulative, and not exclusive, and shall be in addition to any other remedies available in law or equity.

(c) Administration

The Planning and Transportation Director or his or her designee shall maintain a record of all complaints and investigations, and the resolutions of those complaints, whether made by citizens or by staff; communicate on a regular basis with citizen complainants about the progress being made in investigating and resolving their complaints; and report to the Plan Commission on an as-needed basis as to the number and type of complaints and the outcome of each.

(d) Penalty

- (1) Any violation of this UDO shall be subject to a civil penalty of not more than \$2,500.00 for each such violation, and not more than \$7,500.00 for the second and any subsequent violation, in addition to any and all other remedies available to the City, except where a lesser fine is specified herein.
- (2) The following violations of this UDO shall be subject to the fines listed in Table 06-3: Summary of Fines for UDO Violations, for the first offense. In addition, if a responsible party commits a second or subsequent violation of the same provision of this UDO within three years of the first such violation, regardless of whether the second or subsequent violation is on the same property as the first such violation, the listed fine for such second or subsequent offense shall be twice the previous fine, subject to the maximum set forth in subsection (1) above. (For example, a violation that is subject to a \$100.00 fine per Table 06-3: Summary of Fines for UDO Violations, will be subject to a \$200.00 fine for the second offense, a \$400.00 fine for the third offense, and so forth.) A responsible party will be deemed to have violated the same provision for purposes of this subsection where the violations fall under the same section of this UDO or under the same subject matter heading where such heading contains multiple sections.

Table 06-3: Summary of Fines for UDO Violations

UDO Violation	Fine (US Dollars)
Temporary signage without permit	100.00
Parking on unimproved surface	50.00
Temporary use without permit	500.00
Permanent signage without permit	250.00
Change in use without certificate of zoning compliance (CZC)	100.00
Illegal land use	2,500.00
Operation of home occupation without CZC	200.00
Failure to obtain CZC	500.00
Failure to comply with CZC	250.00
Failure to comply with development standards	100.00
Violation of environmental standards	2,500.00
Failure to obtain floodplain development permit	2,500.00
Any other violation	Up to 2,500.00

(e) Enforcement Procedures—Notices of Violation

- (1) If the Planning and Transportation Director or his or her designee finds that any violation of this UDO is occurring, or has occurred, a Notice of Zoning Violation (NOV) may be issued to the responsible party. Such NOVs may be further accompanied by additional warnings following the same procedures of this chapter. For purposes of issuing a NOV, the following persons shall be considered responsible parties, with liability for fines and responsibility for remedy of the violation:
 - (A) The property owner;
 - (B) Persons with any possessory interest in the property; and
 - (C) Any person who, whether as property manager, principal agent, owner, lessee, tenant, contractor, builder, architect, engineer or otherwise who, either individually or in concert with another, causes, maintains, suffers or permits the violation to occur and/or to continue.
- (2) The NOV shall be in writing and shall be served on all of the responsible parties in one or more of the following manners: delivery in person or by first class mail. The notice of zoning violation shall state:
 - (A) The location of the violation;
 - (B) The nature of the violation;
 - (C) The date the violation began or was reported or observed;
 - (D) The daily fine assessed for the violation;
 - (E) Additional remedies the City may seek for violation;
 - (F) That the fine is paid to the City of Bloomington;
 - (G) That the NOV may be appealed to the Board of Zoning Appeals;
 - (H) That the fine may be contested in the Monroe County Circuit Courts.

- (3) Each item of noncompliance enumerated on the notice of violation shall be considered to be a separate violation, and each day that each such item of noncompliance continues shall be considered to be a separate violation. Fines shall accrue from the date the zoning violation was reported or observed.
- (4) If the responsible party refuses inspection of the property, the Planning and Transportation Director or his or her designee may obtain an inspection warrant from any court of record in the county in which the property is located.
- (5) In addition to issuing a notice of violation (NOV), the Planning and Transportation Director or his or her designee may use and/or seek through legal proceedings one or more of the following remedies:
 - (A) Revoke or withhold other approvals, certificates and/or permits relevant to the development or use of the site on which the violation has occurred; and/or
 - (B) Issue a stop work order; and/or
 - (C) Request the County Building Department to issue a stop work order and suspend and withhold all building code inspections relevant to the development or use of the site on which the violation has occurred; and/or
 - (D) Draw on a performance or maintenance bond, as necessary, to affect any remedial actions required to abate the violations; and/or
 - (E) Revoke the permits, certificates and/or approvals that have been violated; and/or
 - (F) Any and all penalties and remedies listed in Section 20.06.100(b), Penalties and Remedies for Violations.

(f) Appeals

- (1) Appeals of Notices of Violation shall be made to the Board of Zoning Appeals as set forth in Section 20.06.080(d) (Administrative Appeal).
- (2) Fines levied for zoning violations may be challenged in the Monroe County Circuit Court.

Chapter 20.07: Definitions

This Chapter 20.07: includes definitions for words and phrases used in this UDO. The general rules of interpretation for this UDO are in Section 20.01.030(a) (Rules of Interpretation). Any words or phrases not defined in this Chapter 20.07: shall be given their customary meanings, as determined by the Planning and Transportation Director.

20.07.010 Defined Words

The following terms shall have the following meanings:

A zone

Means portions of the Special Flood Hazard Areas (SFHAs) in which the principal source of flooding is runoff from rainfall, snowmelt, or a combination of both. In A zones, floodwaters may move slowly or rapidly, but waves are usually not a significant threat to buildings. These areas are labeled as Zone A, Zone AE, Zones A1-A30, Zone AO, Zone AH, Zone AR and Zone A99 on a FIRM. The definitions are presented below:

Zone A

Areas subject to inundation by the one-percent annual chance flood event. Because detailed hydraulic analyses have not been performed, no base flood elevation or depths are shown.

Zone AE and A1-A30

Areas subject to inundation by the one-percent annual chance flood event determined by detailed methods. Base flood elevations are shown within these zones. (Zone AE is on new and revised maps in place of Zones A1-A30.)

Zone AO

Areas subject to inundation by one-percent annual chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between one and three feet. Average flood depths derived from detailed hydraulic analyses are shown within this zone.

Zone AH

Areas subject to inundation by one-percent annual chance shallow flooding (usually areas of ponding) where average depths are between one and three feet. Average flood depths derived from detailed hydraulic analyses are shown within this zone.

Zone AR

Areas that result from the decertification of a previously accredited flood protection system that is determined to be in the process of being restored to provide base flood protection.

Zone A99

Areas subject to inundation by the one-percent annual chance flood event, but which will ultimately be protected upon completion of an under-construction Federal flood protection system. These are areas of special flood hazard where enough progress has been made on the construction of a protection system, such as dikes, dams, and levees, to consider it complete for insurance rating purposes. Zone A99 may only be used when the flood protection system has reached specified statutory progress toward completion. No base flood elevations or depths are shown.

AASHTO

American Association of State Highway and Transportation Officials.

Abutting

Bordering or touching, such as sharing a common lot line. Lots that are separated by a street, right-of-way, or platted alley are not abutting.

Accessory Dwelling Unit (ADU)

See "Dwelling, Accessory Unit."

ADA

The Americans with Disabilities Act.

Addition (to an existing structure)

Any walled and roofed expansion of the perimeter of a structure. For purposes of floodplain regulations, any walled and roofed expansion to the perimeter of a structure in which the addition is connected by a common load-bearing wall other than a firewall. Any walled and roofed addition, which is connected by a firewall or is separated by independent perimeter load-bearing walls, is new construction.

Adjacent Property

Any property that physically touches a given property. For the purposes of this UDO, properties across a public right-of-way are also considered adjacent.

Affordable Housing

Residential developments with a recorded restriction that requires the housing for a certain minimum number of years to be rented or owned by qualified very low and low-income households.

Agriculture

See "Crops and pasturage." And "Urban Agriculture, Noncommercial."

Alley

A right-of-way through or partially through a block, intended for secondary vehicular access to the rear or side of properties. However, where vehicle access from the street is not permitted or not possible, an alley may provide primary vehicle access.

Alteration of a Watercourse

For purposes of floodplain regulations, means a dam, impoundment, channel relocation, change in channel alignment, channelization, or change in cross-sectional area of the channel or the channel capacity, or any other modification which may alter, impede, retard or change the direction and/or velocity of the flow of water during conditions of the base flood.

Amenity Center

A building or facility owned or operated by a corporation or homeowners association intended for a place of meeting, social, cultural, educational, or recreational purposes, to which membership or residency in a specific development or neighborhood is required for participation. Examples may include communal areas, swimming pools, health club facilities, media rooms, or the like.

Apartment

See "Dwelling, Multifamily."

Appeal

For purposes of floodplain regulations, a request for a review of the floodplain administrator's interpretation of any provision of this ordinance, a request for a variance, or a challenge of a board decision.

Architectural Features

Ornamentation or decorative features attached to or protruding from an exterior wall.

Area of Shallow Flooding

For purposes of floodplain regulations, a designated AO or AH Zone on the community's Flood Insurance Rate Map (FIRM) with base flood depths from one to three feet where a clearly defined channel does not exist, where the path of flooding is unpredictable and indeterminate, and where velocity flow may be evident. Such flooding is characterized by ponding or sheet flow.

Area of Special Flood Hazard

For purposes of floodplain regulations, is the land within a community subject to a one percent (1%) or greater chance of being flooded in any given year.

Art Gallery, Museum, or Library

A facility or area that is open to the public and is intended for the display, appraisal, purchase, sale, loan, of art books, paintings, sculpture, or other works of original art that have architectural, artistic, cultural, literary, historical, or scientific value. Accessory uses can include meeting rooms or cafes.

Art, Public

A visual work of art that is permanently displayed in a way that it is visible from a public place, street or way. The work of art may include but need not be limited to sculptures, murals, monuments, frescoes, fountains, stained glass, or ceramics.

Artist Studio or Workshop

A facility that includes work or teaching space for one or more artists, artisans, or musicians.

Assisted Living Facility

A facility combining housing, supportive services, personalized assistance, and health care, designed to respond to the individual needs of those who need help with activities of daily living, such as dressing, grooming and bathing, diet, financial management, evacuation of a residence in the event of an emergency, or medication prescribed for self-administration, but do not require hospitalization. An "assisted living facility" does not contain equipment for surgical care or for treatment of disease or injury and does not include "nursing or convalescent home."

Awning

A roof-like cover intended to either protect from the weather or as a decorative embellishment, and which is supported and projects from a wall or parapet of a structure over a window, walk, door, or a similar feature.

Balcony

An architectural appurtenance located above the first floor that is either entirely unenclosed or covered only by a roof or railing.

Banner

A sign with characters, letters, illustrations, or ornamentations applied to cloth, paper, flexible plastic, or fabric of any kind with only such material for backing.

Bar or Dance Club

A facility open to the public and characterized by live or televised entertainment, dancing or the serving of alcoholic beverages. Food or packaged alcoholic beverages may be sold but are generally accessory to the primary use.

Base Flood

For purposes of floodplain regulations, means the flood having a one percent (1%) chance of being equaled or exceeded in any given year. The base flood may also be referred to as the 1% annual chance flood or one hundred (100) year flood.

Base Flood Elevation (BFE)

The water surface elevation of the base flood in relation to a specific datum, usually the North American Vertical Datum of 1988.

Basement**Basement (Generally)**

In all other contexts, that portion of a building that is partly or wholly below grade, as measured four feet from the exterior of the foundation wall, regardless of whether the interior space is finished or unfinished. A basement shall be counted as a story for determining building setbacks and number of stories if the front exterior wall of the basement facing a street is not completely below grade and each side of the foundation wall facing the side yard is less than 50 percent covered by grade.

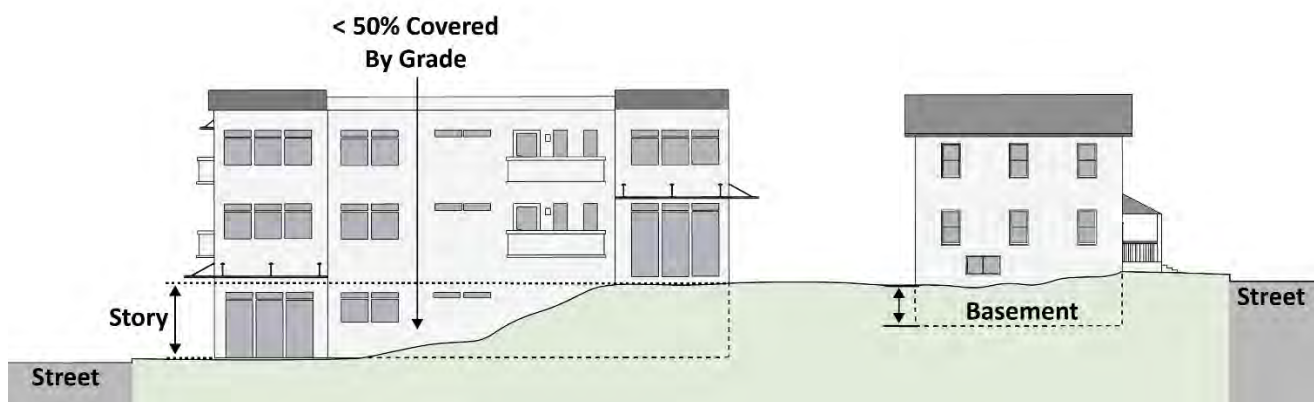


Figure 4: Basement Definition

Basement (Floodplain Regulations)

For purposes of floodplain regulations, that portion of a structure having its floor sub-grade (below ground level) on all sides.

Bay Window

A large window or series of windows projecting from the outer wall of a building and forming a recess within and that does not extend to the ground on the exterior.

Bed and Breakfast

Means a single-family detached dwelling where transient lodging and meals are provided for compensation, that does not meet the definition of a "Hotel or Motel," or "Residential Rooming House."

Berm

A man-made, formed, earth mound of definite height and width used for landscaping and screening purposes, the intent of which is to provide a transition between uses of differing intensity or to screen uses from sight.

Best Available Flood Layer

For the purposes of floodplain regulations, means floodplain studies and any corresponding floodplain maps prepared and/or approved by the Indiana Department of Natural Resources which provide base flood elevation information, floodplain limits, and/or floodway delineations for flood hazards identified by approximate studies on the currently effective FIRM (Zone A) and/or for waterways where the flood hazard is not identified on available floodplain mapping.

Bicycle Parking Facility, Class I

Long-term parking facilities that provide a high level of security for long durations (day, overnight, or longer). Class I facilities can include individual lockers, racks in an enclosed, lockable room, or racks or lockers in an indoor area always visible to employees.

Bicycle Parking Facility, Class II

Short-term parking facilities that provide medium level security for relatively short durations (usually two hours or less). These facilities often include stands or racks and allow a user to secure a bicycle frame and one or both wheels to the facility with a lock.

Bike Lane

A portion of the street that has been designated and designed for the exclusive use of bicycles with distinct signage and pavement markings.

Block

Property abutting on one side of a street and lying between the two nearest intersecting or intercepting streets, intersecting railroad, intersecting waterway, or the end of a dead-end street.

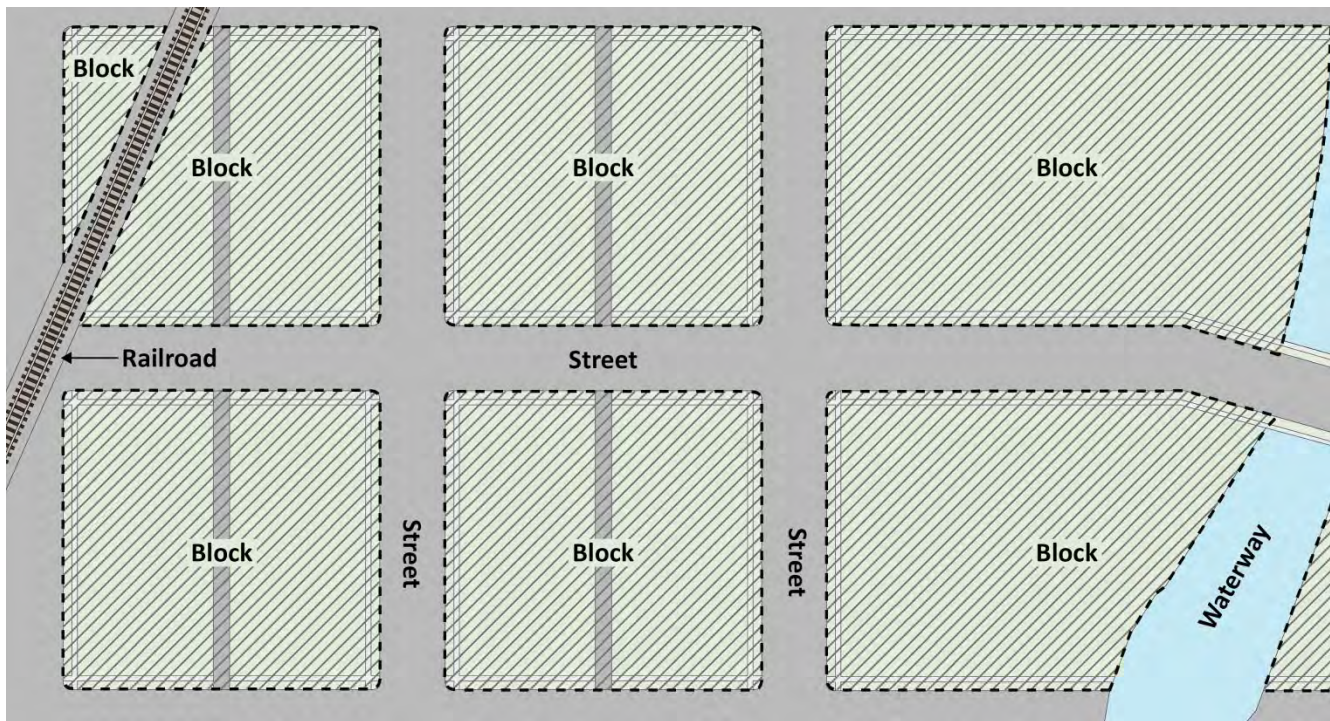


Figure 5: Block Definition

Block face

That portion of a block adjacent and parallel to the abutting public street and normally extending from one intersecting street to another.

Board of Zoning Appeals (BZA)

The City of Bloomington advisory Board of Zoning Appeals or any division or designee thereof.

Book Buyback

A use or business that purchases used higher education books.

Bottled Gas Storage or Distribution

A facility that engages in the holding and transportation of bottled gas products.

Brewpub, Distillery, or Winery

A commercial use that brews ales, beers, meads, distilled drinks, wines, and/or similar beverages on site and serves those beverages on site. Off-site sales are permitted as an accessory use.

Buffer Yard

An area adjacent to side and rear property lines, measured perpendicularly from adjacent property lines, intended to reduce the impacts of proposed uses on adjacent property or natural features and to screen incompatible uses from each other. Buffer yards also help to maintain existing vegetation, to block or reduce noise, glare or other emissions and to maintain privacy.

Building**Building (Generally)**

For all other contexts, any structure having a roof supported by columns, walls or air pressure.

Building (Floodplain Regulations)

For purposes of floodplain regulations, see “Structure.”

Building, Prefabricated

For purposes of floodplain regulations, a building that is manufactured and constructed using prefabrication. It consists of factory-made components or units that are transported and assembled on-site to form the complete building.

Building Base

The street level portion of a building facade. The building base is typically one or two stories tall in height and contains such features as display windows, kick plates, pedestrian entrances and a sign band.

Building Cap

The uppermost portion of a building facade. The building cap is typically located above the uppermost windows and contains a cornice that is integrated with the roof form and downspouts/gutters for stormwater diversion.

Building Code

The Indiana Building Code, which establishes and controls the standards for constructing all forms of permanent structures and related matters.

Building Middle

The area of the facade of a building between the base and the cap. This area includes evenly spaced and similarly sized windows, as well as balconies and other architectural features.

Building or Structure, Accessory

Means a subsidiary or auxiliary building or structure located on the same zoning lot with the primary building or structure and that is customarily incidental to the primary building or structure or to the primary use of the land. This includes, but is not limited to, Automated Teller Machines (ATMs) and automated ice dispensers.

Building or Structure, Attached

A building or structure that is structurally connected to another structure by a foundation, wall, bridge, or roof line, or appears to be connected. Carports, garages, porch awnings, and the like are considered attached structures and must abide by all regulations pertaining to primary structures.

Building or Structure, Detached

A building or structure that has no structural connection with the primary building or structure or any other building or structure.

Building or Structure, Enclosed

A building or structure that is fully enclosed on all sides by solid walls and a roof that are integral parts of the building and are distinguished from the side or top surfaces of the contents of the building or structure.

Building or Structure, Lawful Nonconforming

Any building or structure that does not comply with one or more provisions of this UDO, but that lawfully existed upon the effective date of the provisions of this UDO with which the building or structure does not comply.

Building or Structure, Primary

A building or structure in which is conducted any primary use that is a permitted use of the lot on which it is located.

Building or Structure, Temporary

Any building or structure that is easily moved, without any foundation or footing, or intended to be used for a limited period of time. Temporary buildings or structures include, but are not limited to, tents, trailers, and other temporary structures that are not, and are not legally required to be, erected under the state, city, and county permit processes for permanent buildings.

Building permit

An official document or certification that is issued by the Monroe County Building Department, after issuance of a certificate of zoning compliance, and that authorizes the construction, alteration, enlargement, conversion, reconstruction, remodeling, rehabilitation, erection, demolition, moving, or repair of a building or structure.

Building Supply Store

A business establishment that provides materials for sale that is commonly used for building construction purposes.

Build-to Line

An alignment establishing a certain distance from the front property line where a building must be constructed.

Build-to Range

The area measured from the property line parallel to the frontage to at least one of the primary structure's front building walls.

Business School

See "School, Trade or Business."

Caliper

A trunk diameter measurement of nursery stock, as measured at six inches above the ground for trees up to and including four-inch caliper size and measured at 12 inches above the ground for larger sizes.

Canopy

A roof-like structure projecting from a wall and supported in whole or in part by vertical supports from the ground and serving to provide shelter from the weather or trees.

Carport

A roofed accessory structure not more than fifty percent enclosed by walls for the purpose of providing shelter for one or more motor vehicles.

Cement Production

See "Gravel/sand/cement production."

Cementitious Siding

An exterior building finish that has the shape and appearance of horizontal lap wood siding and is made of a combination of cement, sand, cellulose (wood) fiber, and sometimes clay.

Cemetery or Mausoleum

Property used for interment of deceased persons. Cemeteries may include associated mausoleums, columbaria and chapels. The term does not include "mortuary" or "crematory," except where separately permitted, and does not include a pet cemetery.

Center Line

The midpoint in the width of a public right-of-way. This shall be determined by recorded subdivision plats, or by the historic centerline for all unplatted rights-of-way. In the event that acquisition of additional right-of-way has taken place on one side of a right-of-way, the original centerline prior to such acquisition shall be considered the centerline for the purposes of this UDO.

Certificate of Appropriateness

A permit issued by the Historic Preservation Commission granting a petitioner approval for the alteration, change, demolition, relocation, excavation, or new construction of a structure within a local historic or conservation district.

Certificate of Occupancy

A certificate issued by the Monroe County Building Department stating that the occupancy and use of a building or structure complies with the provisions of all applicable Monroe County and City of Bloomington codes and ordinances.

Certificate of Zoning Compliance (CZC)

Improvement location permits as authorized by the Indiana Code § 36-7-4-800 Series. A certificate issued under this UDO prior to permitting a person, firm, or corporation to erect, construct, enlarge, alter, repair, move, occupy, use, improve, remove, convert, or demolish any lot, building, structure or sign within its jurisdiction, or permitting a person to change the condition of the land or the use.

Changeable Copy

A sign that displays words, lines, logos, or symbols that can be easily changed to provide different information without altering the face or surface of such sign.

Channelized Runoff

Water runoff that would have naturally flowed over and through the soil, deflected to and moved through an artificial open channel or waterway that eventually makes its way to surface water resources.

Check Cashing

A business that for compensation engages in the business of cashing checks, warrants, drafts, money orders, or other commercial paper serving the same purpose. Check cashing also includes a facility that provides loans to individuals in exchange for personal checks as collateral. The term "check cashing" does not include a state or federally regulated bank or credit union.

Chicken Flock

As defined in Section 7.01.010 of the Bloomington Municipal Code, as that definition may be amended, which is expressly incorporated into this UDO by reference.

Church

See "Place of Worship."

City

The City of Bloomington, Indiana.

City of Bloomington Survey of Historic Sites and Structures

Those sites and structures listed in the City of Bloomington Survey of Historic Sites and Structures, as it may be amended or replaced with said table being incorporated into this UDO by reference and made a part thereof, two copies of which are on file in the office of the clerk for the legislative body for public inspection.

Club or Lodge

A nonprofit membership organization that holds regular meetings, whose members pay annual dues, that is organized for a common interest, usually cultural, civic, religious, or social, and that has formal written membership requirements. A "club or lodge" may, subject to other regulations controlling such uses, maintain dining facilities, serve alcohol, or engage in professional entertainment for the enjoyment of members and their guests. There are no sleeping facilities. This does not include "fraternity or sorority house."

College

See "School, College or University."

Collocation

A space on an existing or proposed communication tower that can be used for the installation and/or mounting of antennas or radio or cellular communication equipment that operates on a different frequency from the initial user.

Commercial Laundry

An establishment that cleans clothing, carpeting, drapes, and other cloth or synthetic fiber materials using a chemical process. This definition includes uses such as rug cleaning or repair service; pressing of garments or fabrics; carpet or upholstery; power laundry; industrial launderers; and linen supply. Such establishments may also include self-service laundering facilities.

Commitment

A written document, in recordable form approved by the City Legal Department, which may include maps, site plans or other exhibits, and that contains the information necessary to affect the provisions of this ordinance or the approval to which the commitment is connected. Commitments are established by the Indiana Code § 36-7-4-1500 Series for establishment of Planned Unit Developments; Indiana Code § 36-7-4-1405 and Indiana Code § 36-7-4-613 for Site Plans; Indiana Code § 36-7-4-921 for variances; and Indiana Code § 36-7-4-608 for amendments to the zoning maps. Commitments shall be recorded in the Office of the Monroe County Recorder.

Common Area

Any portion of a development that is neither part of a lot or tract nor dedicated to the public and is designed and intended for the common usage, benefit or enjoyment of the residents of the development. These areas include open spaces and may include such other uses as parking lots and complementary buildings or structures. Maintenance of such areas is not the responsibility of the city and shall be set forth by the development association in the form of restrictive covenants, which shall guarantee the maintenance of these areas.

Common Area Development

A type of development where the lot area includes only the footprint of a building or the footprint and a limited area outside the footprint. The remainder of the area included in the parent parcel is owned in common by a homeowner's association.

Common Council

The Common Council of the City of Bloomington, Indiana

Communication Facility

Antennas and antenna tower structures including, but not limited to, any towers, equipment enclosures, or other structures intended for use in connection with the wireless transmission or receipt of radio, television, or any other electromagnetic spectrum-based transmissions or receptions. The following shall not be considered as "Communications facilities" for the purpose of this definition: satellite reception dishes less than three feet in diameter; wireless communication facilities that are completely located within a primary structure and that operate with the sole purpose of providing communications within that structure; and hand-held wireless communications devices.

Communication Tower

Any structure that is designed and constructed primarily for the purpose of supporting one or more antennas. The term includes radio and television transmission towers, microwave towers, cellular telephone and wireless communication towers, alternative tower structures and the like.

Community

For purposes of floodplain regulations, a political entity that has the authority to adopt and enforce floodplain ordinances for the area under its jurisdiction.

Community Center

A building, together with accessory structures and uses, used for recreational, social, educational, or cultural activities by and for the benefit of community groups and individuals, that is accessible to the general public, and that is not operated for profit.

Community Rating System (CRS)

For purposes of floodplain regulations, a program developed by the Federal Insurance Administration to provide incentives for those communities in the Regular Program that have gone beyond the minimum floodplain management requirements to develop extra measures to provide protection from flooding.

Comprehensive Plan

The most recently adopted Comprehensive Plan for the City of Bloomington including the Transportation Plan, Transportation Plan, and any subsequently adopted subarea plans and amendments thereto, prepared by the Plan Commission and legally adopted. The plan includes goals, objectives and strategies for land use, growth management, transportation/ thoroughfares, community facilities and services, environment concerns, infrastructure, aesthetics and identity, economic development, and parks and recreation. The plan is developed and adopted by the Plan Commission pursuant to the Indiana Code 36-7-4-500 Series and includes any part and/or policies separately adopted and any amendment to such plan and/or policies, or parts thereof.

Condition of Approval

Stipulations or provisions set forth by the Board of Zoning Appeals, Plan Commission, or Common Council required as a prerequisite for approval of a petition.

Conditional Use

A use specifically designated as such in this UDO that, because of its unique characteristics, cannot be properly classified as a permitted use in a particular zoning district and that may be conducted only pursuant to a conditional use approval granted by the Board of Zoning Appeals.

Condominium

The same as the word is defined by Indiana Code Article 32-25, entitled "Condominiums."

Conference or Convention Center

A facility containing over 20,000 square feet of gross floor area and designed to accommodate and support meetings or conferences. The facility may be either freestanding or incorporated into a hotel or office facility and may include eating and drinking facilities.

Connectivity

The directness of links and the density of connections in the street network. An area with high connectivity has many links, numerous intersections, and minimal dead-ends or culs-de-sac.

Connector path

A hard surface linkage or shortcut between two destinations that is not accessible by automobiles.

Conservation Areas

The cumulative of all areas required to be maintained for environmental preservation.

Construction Support Activities

A temporary structure used as an office for contractors and builders during construction located at a construction site that serves only as an office until the given construction work is completed. This includes contractor's offices, equipment storage, and portable lavatories.

Continuing Care Retirement Facility

An establishment for care of the elderly that has common facilities and provides licensed intermediate and skilled nursing facilities for its residents, as well as other supportive services. This use generally includes a variety of housing types and provides a variety of levels of assistance and care so that its residents may obtain higher levels of care and service as they age without having to move to another residential care facility.

Contractor's Yard

A lot or portion of a lot or parcel used to store and maintain construction equipment and other materials and facilities customarily required in the building trade by a construction contractor. This definition also includes contractor's office.

Convalescent Home

See "Nursing or convalescent home."

Cooperative Housing

A facility used for the purpose of household living, where the residents share common areas and cooking, dining, and maintenance duties. All residents are shareholders in a cooperative corporation, registered with the Indiana Secretary of State, that owns the property, and are entitled to use of a housing unit in the property, but shall not own a real property interest in the building, land, or other amenities that make up the facility. Membership in the cooperative corporation shall be open regardless of age, sexual orientation, gender, religion, or ethnicity, and governance of the cooperative is provided by the membership. This definition does not include any facility that meets the definition of a Student Housing or Dormitory or a Fraternity or Sorority House under this UDO or the definition of a condominium under Indiana law.

Country Club

A membership club catering primarily to its membership and invited guests, providing one or more of the following recreational and social activities: golf, swimming, riding, outdoor recreation, clubhouse and locker rooms. A country club may also include incidental retail sales such as a pro shop and may include dining and catering facilities.

County

Monroe County, Indiana.

Courthouse Square

A geographic area encompassing all buildings facing the Monroe County courthouse. This shall also include buildings located at the southwest corner of College and Kirkwood, the southeast corner of Walnut and Kirkwood, the northeast corner of Walnut and 6th Street, and the northwest corner of College and 6th Street.

Covenant

Private and legal restrictions of various kinds on the use and development of a lot. In the case of public health, safety and welfare, covenants may be required by the Plan Commission, that are recorded with the plat and deed. Unless specifically agreed to, covenants are not enforceable by the Plan Commission or its designees, but instead are enforceable in civil court by interested or affected parties.

Crematory

A facility containing apparatus intended for use in the act of cremation of deceased persons.

Critical Facility

For purposes of floodplain regulations, a facility for which even a slight chance of flooding might be too great. Critical facilities include, but are not limited to, schools, nursing homes, hospitals, police, fire, and emergency response installations, installations which produce, use or store hazardous materials or hazardous waste.

Crops and Pasturage

Agricultural uses including raising, harvesting, and selling crops, or feeding (including grazing), breeding, managing, selling, or producing livestock, as defined by this UDO, or livestock products, for the production of income. This shall also include any other horticultural, floricultural or viticultural use, and animal husbandry. Crops include field crops, flowers and seeds, fruits, grains, melons, ornamental crops and vegetables. Livestock products include milk, butter, cheese, eggs, meat, fur, and honey. This use does not include feed lots, concentration points, confined feeding, feeder pig operations, livestock auctions, livestock dealers, sale barns, stock yards, transfer stations, forest management and timber harvesting activities, noncommercial residential gardens, or the commercial feeding of garbage or offal to swine or other animals.

Cul-de-sac

A street having one end open to traffic and being permanently terminated by a vehicular turnaround at the other end. A stub street is not a cul-de-sac.

Current Preferred Practices (CPP)

A set of practices proven both effective and cost effective at reducing soil erosion and sedimentation during land disturbing activities, including but not limited to silt or erosion-control fences, filter socks, straw bales, sedimentation basins, articulated concrete blocks, mechanically stabilized earth, storm grate filters, or erosion control mats.

D Zone

Unstudied areas where flood hazards are undetermined, but flooding is possible. Flood insurance is available in participating communities but is not required by regulation in this zone.

Dance Club

See "Bar or dance club."

Day Care Center, Adult

A facility providing care for the elderly and/or functionally impaired adults in a protective setting for a period of less than 24 hours per day.

Day Care Center, Adult or Child

A facility, other than a "child day care home," "assisted living facility," or "nursing/convalescent home" where children or elderly and/or functionally impaired adults receive care from a provider for a period of less than 24 hours per day. The term "day care center" includes but is not limited to the following: nursery schools, child care centers, kindergartens and play groups; but does not include kindergartens accredited or recognized by the Indiana State Board of Education, which shall be included within the definition of "School, Primary/Secondary." The term "day care center" shall include facilities defined as "child care centers" under Indiana Code 12-7-2-28.4 and facilities defined as "child care homes" under Indiana Code 12-7-2-28.6, 12-7-2-33.7, and Indiana Code 12-7-2-33.8 in which child care homes are not the primary residence of the provider. Where required by state law, day care centers shall be and remain licensed by the state, pursuant to Indiana Code 12-17.2 et seq., and shall operate in accordance with their license and all applicable state laws. A "day care center" exempt from state licensing requirements shall provide proof of exemption.

Day Care Home, Adult

Means a residential dwelling unit used as the primary residence of the day care provider where adults receive care from the provider while unattended by a guardian or custodian for a period of less than 24 hours per day.

Day Care Home, Child

Means a residential dwelling unit used as the primary residence of the day care provider where children receive care from the provider while unattended by a parent, legal guardian or custodian for a period of less than 24 hours per day. A facility shall not be classified as a day care home unless it provides care for no more than 16 full- or part-time children at any one time. The maximum of 16 children does not include children of at least seven years of age for whom the provider is a parent, stepparent, guardian, custodian or other relative. The term "child day care home" includes those facilities where fewer than six full and part-time children (excluding any children for whom the provider is a parent, stepparent, guardian, custodian or other relative) receive care from the provider while unattended by a parent, legal guardian or custodian. Where required by state law, child day care homes shall be and remain licensed by the state and shall be operated in accordance with their license and all applicable state laws. A "child day care home" exempt from state licensing requirements shall provide proof of exemption.

Deck

A structure that is typically constructed of wood, elevated from ground level and open to the sky. Decks may be freestanding or attached to a primary structure or building.

Dedication

The setting apart of land or interests in land for use by the municipality or public by ordinance, resolution, or entry in the official minutes as by the recording of a plat.

Demolition

The complete removal or destruction of any structure excluding its foundation.

Density

A unit of measurement describing the number of dwelling units per measured acre. This UDO may regulate density by establishing the permitted number of units per acre or the amount of land, measured in square feet or acres, required per individual unit on the resulting lots.

Development**Development (Generally)**

In all other contexts, the construction, reconstruction, conversion, structural alteration, relocation, or enlargement of any structure, any mining, excavation, landfill or land disturbance, or any change in use, or alteration or extension of the use of land.

Development (Floodplain Regulations)

For purposes of floodplain management any man-made change to improved or unimproved real estate including but not limited to:

- 1) construction, reconstruction, or placement of a structure or any addition to a structure;
- 2) installing a manufactured home on a site, preparing a site for a manufactured home or installing a recreational vehicle on a site for more than 180 days;
- 3) installing utilities, erection of walls and fences, construction of roads, or similar projects;
- 4) construction of flood control structures such as levees, dikes, dams, channel improvements, etc.;
- 5) mining, dredging, filling, grading, excavation, or drilling operations;
- 6) construction and/or reconstruction of boat lifts, docks, piers, or seawalls;
- 7) construction and/or reconstruction of bridges or culverts;
- 8) storage of materials; or
- 9) any other activity that might change the direction, height, or velocity of flood or surface waters.

"Development" does not include activities such as the maintenance of existing structures and facilities such as painting, re-roofing; resurfacing roads; or gardening, plowing, and similar agricultural practices that do not involve filling, grading, excavation, or the construction of permanent structures.

Development Plan, PUD

The name for PUD final plans under the Bloomington Zoning Ordinance effective 1973-1995. See "Final Plan, PUD."

Development Standards

Means height, bulk, density, environmental performance standards, and other standards for development as set forth in this UDO, including landscaping, parking, and other required improvements, excluding those provisions that specifically regulate the use of property.

Diameter at Breast Height (DBH)

The diameter of an existing tree trunk or the cumulative diameter of multiple trunks measured four and one-half feet or 54 inches above natural grade.

Display Window

A window of a store facing onto the street that is used to display merchandise or signage. Display windows typically include a kick plate and are not typically double-hung windows.

Distribution, Warehouse, or Wholesale Facility

A facility that is used for storage, wholesale, and/or distribution of manufactured products, supplies, and equipment, but not involved in manufacturing or production. This does not include "Bottled Gas Storage or Distribution."

District, Mixed-Use or Nonresidential

Refers to all zoning districts, including Planned Unit Developments, other than those defined as a "residential district."

District, Residential

Refers to the R1, R2, R3, R4, RM, RH, and RMH zoning districts and residential portions of Planned Unit Developments.

DNR

The Indiana Department of Natural Resources.

Dripline

The perimeter of a tree's spread measured to the outermost tips of the branches and extending downward to the ground.

Drive

A vehicular access to a development site, including private streets or roads and excluding an aisle serving as direct access to a row of parking spaces.

Drive Apron

The driving surface area, typically located within the public right-of-way, between the edge of a paved street and the driveway accessing a private property.

Drive-through

A facility, building feature, or equipment at which an occupant of a vehicle may make use of the service or business without leaving their vehicle. This use includes drive-by parcel pickup facilities.

Drive-through Bay

The portion of a drive-through use or structure, including any awnings, structures, or service windows, where individual vehicles are parked to receive service.

Driveway

A surfaced area intended solely for the purpose of accessing a garage or parking area, other than an aisle serving as direct access to a row of parking spaces

Dwelling Site

A site within a manufactured home park and/or mobile home park with required improvements and utilities that is leased for the long-term placement of a manufactured home and/or mobile home.

Dwelling Unit

One or more rooms containing cooking, living, sanitary, and sleeping facilities, occupied by not more than one family (see definition of "Family"). The dwelling unit shall be characterized by but not limited to:

- 1) A single house number with a single mailbox for the receipt of materials sent through the United States mail;

- 2) A single kitchen adequate for the preparation of meals;
- 3) A tenancy based upon a legal relationship of a unitary nature, i.e., a single lease, mortgage, or contractual sales agreement for the entire premises.

A dwelling unit occupied by more than one "family" (see definition) shall be constructed and regulated as a "residential rooming house" (see definition).

Dwelling, Accessory Unit

An additional residential dwelling unit, but not a mobile home, camper, or recreational vehicle, that is located on the same lot as a single-family dwelling unit, either within the same building as the single-family dwelling unit or in a detached building. Without limiting the generality of the previous sentence, this definition includes a transportable living unit that meets either the applicable City building code or the construction standards of the federal Manufactured Housing Act, contains less than 500 square feet of gross floor area, is mounted on a permanent foundation, and is connected to City utilities as required for other types of dwelling units.

Dwelling, Cottage Development

A cluster of at least five attached or detached single-family dwellings located within a common development that use shared access, parking, and common spaces. Cottage developments can include homes on individual lots, homes owned as condominiums, or leased homes. This use can include communities of five or more factory built small single-family detached dwellings containing less than 500 square feet of gross floor area, commonly referred to as Tiny Homes, provided that each home meets either the Indiana Building Code or the federal Manufactured Housing Construction and Safety Standards Law of 1974 (42 U.S.C. 5401 et seq.), and that each dwelling has any wheels removed, is mounted on a permanent foundation, and is connected to city water, sewer, and electric services. This definition shall not include a "Manufactured Home Park."

Dwelling, Duplex

A single building on a single lot containing two dwelling units under one roof, each of which is occupied by one family.

Dwelling, Fourplex

A single building on a single lot containing four dwelling units under one roof, each of which is occupied by one family.

Dwelling, Live/Work

A dwelling unit containing an integrated living and working space in different areas of the unit.

Dwelling, Manufactured Home

Means a dwelling unit, designed and built in a factory, which bears a seal certifying that it was built in compliance with the federal Manufactured Housing Construction and Safety Standards Law of 1974 (42 U.S.C. 5401 et seq.) and that was constructed after January 1, 1981, and that exceeds 950 square feet of occupied space. This definition includes double-wide mobile homes of two such units designed to be used in combination at a building site. This definition is not intended to apply to other modular housing or prefabricated housing panels, trusses, or other sub-elements, nor any other dwelling unit that is defined as a "Dwelling, Mobile Home."

Dwelling, Mobile Home

Any factory-fabricated portable structure, residential or nonresidential, designed to be towed or transported on its own chassis for placement on a temporary or permanent foundation, or on its own structure or elements thereof, without the aid of house moving equipment or other specialized but separate supporting apparatus, and that is not a "Dwelling, Manufactured Home" as defined by this UDO.

Dwelling, Multifamily

One or more buildings or portion of buildings on a single lot that contains one or more individual dwelling units, where each unit is occupied by one family and provided with an individual entrance to the outdoors or to a common hallway, and regardless of whether the dwelling units are owned or rented. This definition shall not include "Dwelling, Single-Family Detached", "Dwelling, Single-family Attached," Dwelling, Duplex," "Dwelling, Triplex," "Dwelling, Fourplex," "Student Housing or Dormitory," or "Dwelling, Accessory Unit."

Dwelling, Short-Term Rental

The rental of an entire dwelling unit for monetary consideration for a period of time less than 30 consecutive days, not including a "Bed and Breakfast," "Residential Rooming House," or "Hotel/Motel." This definition does not include offering the use of one's property where no fee is charged or collected.

Dwelling, Single-family Attached

Two or more attached single-family dwelling units attached side by side under one roof that share a common vertical side or rear wall reaching from the building foundation to the roof structure, each of which is occupied by one family on its own lot.

Dwelling, Single-family Detached

A single building on a single lot on a permanent foundation containing one residential dwelling unit designed for and occupied by one family and that is completely separate from any other building. This definition includes "Dwelling, Manufactured Home" but does not include "Dwelling, Mobile Home." A single-family detached dwelling may also include an "Accessory Dwelling Unit" if it meets the requirements for that additional use under this UDO.

Dwelling, Triplex

A single building on a single lot containing three dwelling units under one roof, each of which is occupied by one family.

Easement

A nonpossessory interest in land granted by a property owner to the city, the general public, a corporation, or other persons for specific purposes including but not limited to the construction of utilities, drainage ways, and streets, or for the protection of natural features.

Easement, Conservancy

An easement that restricts any land-disturbing activities within a defined area. The purpose of a conservancy easement includes retaining or protecting natural, scenic, or open space values of real property; assuring its availability for forest, recreational or open space use, and protecting natural resources.

Easement, Drainage

An easement that permits the unobstructed flow of upstream stormwater runoff. A drainage easement may include detention or retention ponds, swales, wetlands or underground pipes, and that allows the City Utilities Department access for installation, maintenance, repair or removal of drainage facilities.

Easement, Karst Conservancy

An easement that restricts any land-disturbing activities within a defined area around a surface karst feature and permits the City of Bloomington the right to enter the property to inspect the easement and alter or repair the karst feature.

Easement, Pedestrian

An easement that permits the general public the right to access the easement for purposes of walking, running, bicycling, skating, or utilizing certain classes of nonmotorized vehicles, and grants the city the right to construct, alter, repair, maintain, or remove improvements within the easement area.

Easement, Sanitary Sewer

An easement that allows the City Utilities Department exclusive access for installation, maintenance, repair, or removal of sanitary sewer facilities.

Easement, Temporary Turnaround

An easement that permits the general public the right to access the easement for purposes of turning a motor vehicle around at the end of a stub street. This easement right is terminated when the road is extended to the adjoining property.

Easement, Transit Facility

An easement that grants the public transit authority the right to construct, alter, repair, maintain, or remove structures to be used for awaiting, boarding, or exiting public transportation, or grants the general public the right to utilize the transit facility easement for the purposes of awaiting, boarding, or exiting public transportation.

Easement, Tree Preservation

An easement that prohibits the removal of any tree over six inches in diameter at breast height within the easement area and allows the removal of dead and diseased trees that pose a safety risk or impede drainage, only after first obtaining written approval from the Planning and Transportation Department.

Easement, Utility

An easement that allows both private and public utility providers access associated with the installation, maintenance, repair, or removal of utility facilities.

Easement, Waterline

An easement that allows the City Utilities Department exclusive access for installation, maintenance, repair, or removal of potable water facilities.

Edge Vegetation

Those plants that naturally grow in a transition area between two distinct, but adjoining, plant communities such as those that grow between a forest and an open space, along the edge of the forest.

EIFS

Exterior insulation and finish system.

Electric Vehicle Charging Facility

A facility in which electric vehicle charging services are made available to the public or to members for a fee, including structures, machinery, and equipment necessary and integral to support an electric vehicle, including battery charging stations, rapid charging stations, and battery exchange stations.

Electronic Reader Board

A sign with a fixed or changing display/message composed of a series of lights that may be changed through electronic means.

Elevated Structure

For purposes of floodplain regulations, a non-basement structure built to have the lowest floor elevated above the ground level by means of fill, solid foundation perimeter walls, filled stem wall foundations (also called chain walls), pilings, or columns (posts and piers).

Elevation Certificate

For purposes of floodplain regulations, a FEMA form that is routinely reviewed and approved by the White House Office of Management and Budget under the Paperwork Reduction Act, that is encouraged to be used to collect certified elevation information.

Emergency Program

For purposes of floodplain regulations, the first phase under which a community participates in the NFIP. It is intended to provide a first layer amount of insurance at subsidized rates on all insurable structures in that community before the effective date of the initial FIRM.

Enclosed Area

For purposes of floodplain regulations, (enclosure) is an area of a structure enclosed by walls on all sides.

Enclosure Below the Lowest Floor

For the purposes of floodplain regulations, see "Lowest Floor" and "Enclosed Area."

Enlargement

The expansion of any use or structure into or onto any portion of a structure or lot not previously occupied by said use or structure or increase in any physical dimension of a structure. Also, expansion of a use into any structure floor area not previously occupied by said use. Enlargement includes expansion of a principal use into floor area previously used as an accessory use, such as expansion of residential living area into a basement, attic or garage not previously used as living area.

EPA

United States Environmental Protection Agency.

Equipment Sales or Rental

An establishment engaged in the display, sale, and rental of equipment, tools, supplies, machinery or other equipment used for commercial, industrial, or construction enterprises, such as, but not limited to, trucks, trailers, semi-tractor trailers, farm equipment, bulldozers, cranes, backhoes, rollers, loaders, or lifts. This use includes the selling of manufactured homes that are not intended to be used on the same lot on which they are sold and the sale of farm-specific vehicles such as tractors, tillers, farm trailers, back hoes, graders, boom lifts, and front-end loaders, but not including "Vehicle Sales or Rental."

Erosion

The general process by which soils are removed by flowing surface or subsurface water, or by wind, ice or gravity.

Existing Manufactured Home Park or Subdivision

For purposes of floodplain regulations, a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including, at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed before the effective date of the community's first floodplain ordinance.

Expansion

See "Enlargement."

Expansion to an Existing Manufactured Home Park or Subdivision

For purposes of floodplain regulations, the preparation of additional sites by the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads).

Exterior Finish Material, Primary

An exterior finish material that covers more than 20 percent of a building facade. Windows, doors, building trim, cornices, and similar architectural features shall not count toward calculation of the square footage of the building facade.

Exterior Finish Material, Secondary

An exterior finishing material that covers 20 percent or less of a building facade. Windows, doors, building trim, cornices, and similar architectural features shall not count toward calculation of the square footage of the building facade.

FAA

The United States Federal Aviation Administration.

Facade

That portion of any exterior elevation on a building extending from grade to the top of the roof or parapet covering the entire width of the structure. The facade shall include the entire walls, including wall faces, parapets, fascia, windows, doors, canopies, and roof structures. Also, in the case of attached buildings, a portion of the exterior of a building that gives the appearance of a unitary module shall constitute a facade regardless of whether that portion coincides with the sides of individual buildings. (For example, a single building may have more than one facade, and a facade may cross building lines, provided there is unitary ownership or control of both buildings.)

Facade Open Area

Areas within a building facade that provide voids or relief, such as windows or balconies.

Facade, Primary

Those portions of a facade that are adjacent to or front on a private or public street, park or plaza.

Family

An individual or group of persons that meets at least one of the following definitions.

- 1) An individual or a group of people all of whom are related to each other by blood, marriage, or legal adoption, foster parent responsibility, or other legal status making the person a dependent of one or more persons legally residing in the household under federal or state law.
- 2) A group of no more than five adults aged 55 years of age or older living together as a single housekeeping unit in a dwelling unit.
- 3) A group of people whose right to live together is protected by the federal Fair Housing Act Amendments of 1988, and/or the Bloomington Human Rights Ordinance, as amended and interpreted by the courts, including but not limited to persons that are pregnant.

- 4) In the R1, R2, R3, and R4 zoning districts, and in single-family residential portions of Planned Unit Developments, a group of no more than three adults, and their dependent children, living together as a single housekeeping unit in a dwelling unit.
- 5) In all other zoning districts, "family" also includes a group of no more than five adults and their dependent children, living together as a single housekeeping unit in a dwelling unit.
- 6) A group of people who are shareholders in the same cooperative corporation that owns a facility meeting the definition of cooperative housing in which no more than two adults per bedroom occupy the facility.

Farm Produce Sales

The seasonal selling or offering for sale at retail directly to the consumer of fresh fruits, vegetables, flowers, herbs, or plants, processed food stuffs and products such as jams, honey, pickled products, sauces, and baked goods, where the vendors are generally individuals who have raised the produce or have taken the same or other goods on consignment for retail sales.

Farmer's Market

An occasional or periodic market held in an open area or structure where groups of individual sellers offer for sale to the public items such as fresh produce, seasonal fruits, fresh flowers, arts and crafts items, and food and beverages dispensed from booths located on site.

FCC

United States Federal Communications Commission.

FEMA

Federal Emergency Management Agency.

FHA

The Fair Housing Act.

Fill

For floodplain management purposes, means any material deposited or placed which has the effect of raising the level of the ground surface above the natural grade elevation. Fill material includes but is not limited to consolidated material such as concrete and brick and unconsolidated material such as soil, sand, gravel, and stone.

Final Plan, PUD

The detailed construction drawings for all or part of a Planned Unit Development.

Financial Institution

A federal or State-regulated facility that provides financial and banking services to individuals and businesses. These services may include deposit banking and closely related functions such as making loans, investments, and fiduciary activities. The term does not include "check cashing," except where separately permitted. Accessory uses may include automatic teller machines and offices.

Findings of Fact

The written findings of an approving body as required by Indiana Code 36-7-4-707 for subdivisions of land, Indiana Code 36-7-4-915 for actions of the Board of Zoning Appeals, and Indiana Code 36-7-4-1406 for site plans.

Firearm Sales

A business in which at least 10% of the gross floor area is used for or 10% of sales revenues are earned from, the wholesale or retail sale of firearms and ammunition, the repair of firearms, or the creation or fitting of special barrels, stocks, or trigger mechanisms for firearms. This does not include "Pawn Shop."

Fitness Center

Means a facility where members or nonmembers use equipment or space for the purpose of physical exercise, improved circulation or flexibility, and/or weight control. Facilities and activities can include running, jogging, aerobics, weightlifting, court sports, whirlpools, saunas, massage rooms, yoga, karate, dance and swimming, as well as locker rooms, showers, and lockers. This use includes but is not limited to fitness training studios, exercise facilities, gymnasiums, and health clubs.

- 1) "Fitness Center, Large" is a facility with more than 7,500 square feet of gross floor area.
- 2) "Fitness Center, Small" is a facility with up to 7,500 square feet of gross floor area.

Flood or Flooding

A general and temporary condition of partial or complete inundation of normally dry land areas from:

1. The overflow of inland or tidal waters.
2. The unusual and rapid accumulation or runoff of surface waters from any source.
3. Mudslides (i.e. mudflows) which are proximately caused by flooding and are akin to a river of liquid and flowing mud on the surfaces of normally dry land areas, as when earth is carried by a current of water and deposited along the path of the current.

Flood or flooding also includes the collapse or subsidence of land along the shore of a lake or similar body of water as a result of erosion or undermining caused by waves or current of water exceeding anticipated cyclical levels that result in a flood as defined above.

Flood Hazard Area

For the purpose of floodplain regulations, areas subject to the one percent (1%) annual chance flood. (See "Special Flood Hazard Area")

Flood Insurance Rate Map (FIRM)

An official map of a community, on which FEMA has delineated both the areas of special flood hazard and the risk premium zones applicable to the community. A FIRM that has been made available digitally is called a Digital Flood Insurance Rate Map (DFIRM).

Flood Insurance Study (FIS)

The official hydraulic and hydrologic report provided by FEMA. The report contains flood profiles, as well as the FIRM and the water surface elevation of the base flood.

Flood Prone Area

Any land area acknowledged by a community as being susceptible to inundation by water from any source. (See "Floodplain")

Flood Protection Grade (FPG)

The BFE plus two (2) feet at any given location in the SFHA. For sites within a SFHA designated as "Zone AO," the BFE is equivalent to the flood depth specified on the Flood Insurance Rate Map, measured from the highest adjacent grade. If no flood depth is specified, two feet is used as the minimum depth. (See "Freeboard")

Floodplain or Flood Prone Area

Any land area susceptible to being inundated by water from any source. (See "Flood")

Floodplain Management

The operation of an overall program of corrective and preventive measures for reducing flood damage and preserving and enhancing, where possible, natural resources in the floodplain, including but not limited to emergency preparedness plans, flood control works, floodplain management regulations, and open space plans.

Floodplain Management Regulations

This UDO and other zoning ordinances, subdivision regulations, building codes, health regulations, special purpose ordinances, and other applications of police power which control development in flood-prone areas. This term describes federal, state, or local regulations in any combination thereof, which provide standards for preventing and reducing flood loss and damage. Floodplain management regulations are also referred to as floodplain regulations, floodplain ordinance, flood damage prevention ordinance, and floodplain management requirements.

Floodproofing (dry floodproofing)

A method of protecting a structure that ensures that the structure, together with attendant utilities and sanitary facilities, is watertight to the floodproofed design elevation with walls that are substantially impermeable to the passage of water. All structural components of these walls are capable of resisting hydrostatic and hydrodynamic flood forces, including the effects of buoyancy, and anticipated debris impact forces.

Floodproofing Certificate

A form used to certify compliance for non-residential structures as an alternative to elevating structures to or above the FPG.

Floodway

The channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height.

Food Production or Processing

A facility that produces or processes food for human consumption and certain related products. This use includes but is not limited to commercial bakeries; dairy products processing; fats and oil product processing; fruit and vegetable canning, preserving, and related processing; grain mill products and by-products; meat, poultry, and seafood canning, curing, and by-product processing; and miscellaneous food preparation from raw products, including catering services that are independent from food stores or restaurants.

Footprint

The area of a lot or site included within the surrounding exterior walls of a building or portion of a building, exclusive of courtyards. In buildings or structures with no walls, the building footprint shall be the area under the horizontal projection of the roof.

Foundation

The supporting substructure of a building or other structure, including but not limited to basements, slabs, sills, posts, or frost walls.

Fraternal Organization

See "Club or Lodge."

Fraternity or Sorority House

A building or portion of a building used for sleeping accommodations, with or without accessory common rooms and cooking and eating facilities, for groups of students where the students living in the building are enrolled at the same college or university, are active members of the same fraternity or sorority, and the fraternity or sorority has been officially recognized by and maintains active affiliation with the college or university. This use shall also include a building or portion of a building in which individual rooms or apartments are leased to individuals, regardless of the ownership of the building, provided that the students living in the building are enrolled at the same college or university, are active members of the same fraternity or sorority, and the fraternity or sorority has been officially recognized by and maintains active affiliation with the college or university.

Freeboard

A factor of safety, usually expressed in feet above the BFE, which is applied for the purposes of floodplain management. It is used to compensate for the many unknown factors that could contribute to flood heights greater than those calculated for the base flood.

Fringe or Flood Fringe

The portion of the floodplain lying outside the floodway.

Front Building Wall

The building elevation that fronts on a public street, public parking lot, private parking lot available to the general public, or pedestrian walk where customer access to a structure is available.

Frontage, Building

Those building elevations that face upon either a road or parking area between the building and the road.

Frontage, Lot

The horizontal distance between the side lot lines measured at the point where the side lot lines intersect the street right-of-way. All sides of a lot that abut a street shall be considered frontage. On curvilinear streets, the arc between the side lot lines shall be considered the lot frontage.

Functionally Dependent Use

For the purposes of floodplain regulation, a use which cannot perform its intended purpose unless it is located or carried out in close proximity to water. The term includes only docking facilities, port facilities that are necessary for the loading and unloading of cargo or passengers, and ship building and ship repair facilities, but does not include long-term storage or related manufacturing facilities.

Funeral Home

See "Mortuary."

Garage

A building or structure, or part thereof, used or designed to be used for the parking and storage of vehicles.

Garage, Detached

A detached accessory building in which the sole use is the storage of vehicles and other incidental personal possessions of the premises.

Geographic Information System (GIS)

A computer system that stores and links non-graphic attributes or geographically referenced data with graphic map features to allow a wide range of information processing and display operations, as well as map production, analysis, and modeling.

Glare

The effect produced by brightness sufficient to cause annoyance, discomfort, or loss in visual performance and visibility.

Government Service Facility

A facility owned, operated, or occupied by any level of government to provide a governmental service, but not including offices for the provision of governmental services or facilities for any government operation separately defined in this UDO.

Grade (Surface), Average finished

The midpoint between the highest exposed finished grade and lowest exposed finished grade as measured at a minimum of 4 feet from the exterior building façade.

Grade, Finished

The final grade of a plan that conforms to the approved plan.

Grade, Natural

For floodplain management purposes, the elevation of the undisturbed natural surface of the ground. Fill placed prior to the date of the initial identification of the flood hazard on a FEMA map is also considered natural grade.

Grade, Street

The top of the curb, or the top of the edge of the pavement where no curb exists.

Grade, Unfinished

The stage at which the grade approximately conforms to the approved plan.

Gravel, Cement, or Sand Production

A facility for the sorting, grading, storage, manufacture or mixing of aggregate construction materials such as concrete, cement, gravel, crushed stone, sand or similar products, or products made of these materials.

Greenhouse, Noncommercial

The accessory or temporary use of a structure whose roof and sides are made largely of glass or other transparent or translucent material and in which the temperature and humidity can be regulated for the cultivation of plants for noncommercial use.

Grocery or Supermarket

A retail establishment where most of the floor area is devoted to the sale of food products, both perishable and dry goods, for home preparation and consumption, as other convenience and household goods.

Gross Floor Area

All of the area contained in a building or buildings without exception, including utilities, stairwells, chimneys and other appurtenant features.

Ground Cover

In landscaping, low-growing plants with a typical maximum mature height of about 12 inches. Ground cover is sometimes referred to as the "herbaceous layer," "regenerative layer," or "ground flora." They are typically chosen for practical purposes to cover soil where turf grass does not thrive or is not practical or in wooded settings covering the soil surface. Ground cover species do not include non-native turf grass.

Ground Floor

The level of a building that is situated at or most nearly at street grade.

Group Care Home, FHAA, Small and Large

A residential dwelling or facility where persons are living, together with staff, as a single housekeeping unit providing care, supervision, and treatment for the exclusive use of citizens protected by the provisions of the federal Fair Housing Act Amendments of 1988, as defined in that Act and interpreted by the courts, or by any similar legislation of the State of Indiana, including but not limited to facilities providing housing for persons with disabilities, persons with mental health conditions, or persons with developmental disabilities. This use does not include "Opioid Rehabilitation Home, Small" or "Opioid Rehabilitation Home, Large."

Group Home, FHAA Small

A facility designed for and occupied by eight or fewer residents living together.

Group Care Home, FHAA Large

A facility designed for and occupied by nine or more residents living together.

Gym

See "Fitness Center."

Habitable Space

Space in a structure for living, sleeping, eating, or cooking. Bathrooms, toilet compartments, closets, halls, storage or utility space, and similar areas are not considered habitable space.

HAND

The City of Bloomington Department of Housing and Neighborhood Development.

Hardship

For purposes of floodplain regulations, the exceptional hardship that would result from a failure to grant the requested floodplain variance. The City Board of Zoning Appeals or the Hearing Officer requires that the variance is exceptional, unusual, and peculiar to the property involved. Mere economic or financial hardship alone is NOT exceptional. Inconvenience, aesthetic considerations, physical handicaps, personal preferences, or the disapproval of one's neighbors likewise cannot, as a rule, qualify as an exceptional hardship. All of these problems can be resolved through other means without granting a floodplain variance, even if the alternative is more expensive, or requires the property owner to build elsewhere or put the parcel to a different use than originally intended.

Health Club

See "Fitness Center."

Hearing Officer

A member of the staff, appointed by the Plan Commission, who hears and makes final decisions on certain variances and certain conditional uses, as specified in the Plan Commission rules of procedure. The Hearing Officer is established pursuant to Indiana Code 36-7-4-923.

Hedge

Several plants planted in a sequence or pattern so that the branches and stems of adjacent plants grow together in a manner that results in a meshing or intertwining of stems and branches with little or no passable space left between the plants, thus forming more or less a dense planting area.

Height, Building

Building height shall be defined according to the measurements and exceptions in Section 20.04.020(f) (Building Height).

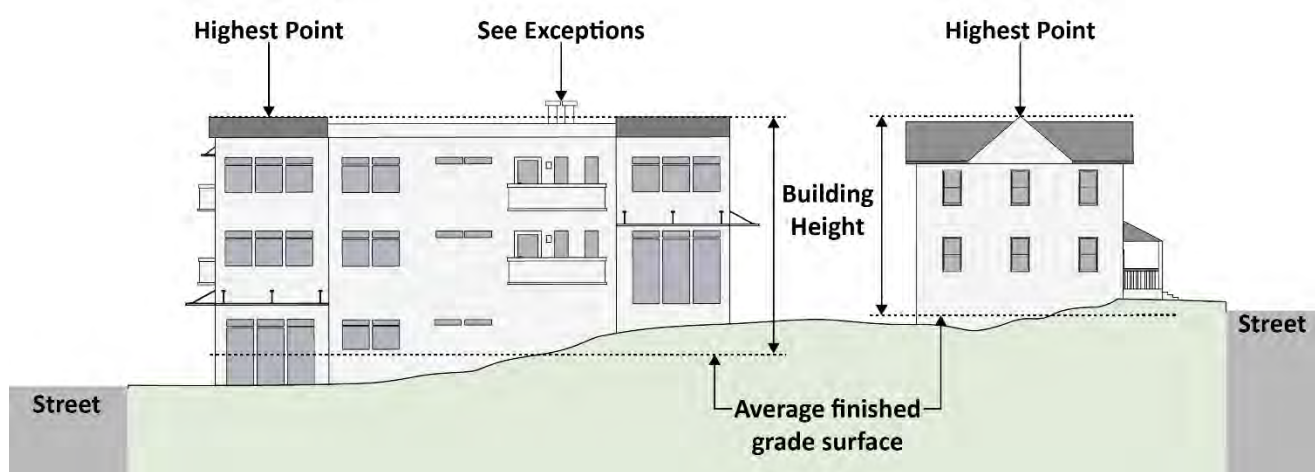


Figure 6: Building Height

Highest Adjacent Grade

For purposes of floodplain regulations, the highest natural elevation of the ground surface, prior to the start of construction, next to the proposed walls of a structure.

Highly Erodible Soils

Areas of incline, whether natural or man-made, lacking sufficient vegetation to prevent instability, erosion, or downstream siltation due to soils that are subject to severe erosion when disturbed.

Home Occupation

An activity or occupation carried on within a dwelling or approved residential accessory structure by members of the family occupying the dwelling and where the use of the home as an occupation shall be incidental and subordinate to the use of the home as a dwelling, unless this UDO states that the activity or occupation is not treated as a Home Occupation.

Hospital

An acute healthcare establishment providing accommodations, facilities and services on a continuous 24-hour basis with overnight (meaning between twelve midnight and five a.m.) beds and services for persons suffering from illness, injury or conditions requiring medical services. The term "Hospital" does not include "Nursing or Convalescent Home," "Medical Clinic," or "Methadone Treatment Facility," or "Opioid Rehabilitation Facility" except where separately permitted.

Hotel or Motel

An establishment in which lodging is provided and offered to the public for compensation, for periods of time not exceeding thirty days and that is commonly known as a hotel or motel in the community in which it is located. This use customarily provides services such as maid service, the furnishing and laundering of linen, telephone and secretarial or desk service, and the use and upkeep of furniture. This use may provide ancillary uses such as conference and meeting rooms, restaurants, bars, gift shops, and recreational facilities. The term "Hotel or Motel" does not include "Residential Rooming House," or "Bed and Breakfast," except where separately permitted.

HPC

The City of Bloomington Historic Preservation Commission.

Hydrologic and Hydraulic Engineering Analysis

For the purposes of floodplain regulations, analyses performed by a professional engineer licensed by the State of Indiana, in accordance with standard engineering practices that are accepted by the Indiana Department of Natural Resources and FEMA, used to determine the base flood, other frequency floods, flood elevations, floodway information and boundaries, and flood profiles.

IBC

Indiana Building Code.

IC

Indiana Code.

IDEM

Indiana Department of Environmental Management.

IESNA

Illuminating Engineering Society of North America.

Impervious Surface

Any surface artificially covered or hardened so as to prevent or impede the percolation or absorption of water into the ground, including but not limited to asphalt, concrete, roofing material, brick, plastic, gravel, or swimming pools.

Impervious Surface Coverage

The area of the lot covered by the following shall be included in the calculation of impervious surface coverage in all districts:

- 1) Primary buildings;
- 2) Accessory buildings, parking garages, carports, and utility and storage sheds;
- 3) Porches, stairways, elevated walkways, ground floor decks, paved areas, or areas otherwise covered with impervious surface; and
- 4) Parking areas and driveways, regardless of surfacing materials unless an alternative pervious paving system is approved by the Planning and Transportation Director.

Increased Cost of Compliance (ICC)

For purposes of floodplain regulations, the cost to repair a substantially damaged structure that exceeds the minimal repair cost and that is required to bring a substantially damaged structure into compliance with the local flood damage prevention ordinance. Acceptable mitigation measures are elevation, relocation, demolition, or any combination thereof. All renewal and new business flood insurance policies with effective dates on or after June 1, 1997, will include ICC coverage.

Indiana State Historic Architectural and Archaeological Research Database

The Indiana State Historic Architectural and Archaeological Research Database, as the same may be amended from time-to-time, created by and/or administered by the State of Indiana's Division of Historic Preservation and Archaeology.

International Code Council-Evaluation Service (ICC-ES) Report

A document that presents the findings, conclusions, and recommendations from a particular evaluation. ICC-ES reports provide information about what code requirements or acceptance criteria were used to evaluate a product, and how the product should be identified, installed.

Invasive Species

A nonnative or alien plant whose introduction does, or is likely to, cause economic or environmental harm, or harm to human health. A plant is regarded as invasive if it has been introduced by human action to a location, area, or region where it did not previously occur naturally, becomes capable of establishing a breeding population in the new location without further intervention by humans, and spreads widely throughout the new location.

ITE

Institute of Transportation Engineers.

Jail or Detention Facility

A facility established by a law enforcement agency for the detention of adult or juvenile persons while being processed for arrest or detention, awaiting trial, or for punishment and/or counseling as a result of sentencing by a court of jurisdiction for criminal or antisocial behavior.

Karst

A type of geology with distinctive characteristics of relief and drainage arising from the solution of soluble bedrock by natural waters, and in which the drainage is underground in solutionally enlarged fissures and conduits. Karst features may include but not be limited to sinkholes, springs, solution valleys, underground rivers, caverns, disappearing streams, towers, grikes, and conical hills.

Karst, Compound

Any two or more karst features where the last closed contour of the features is located within one hundred feet of each other. The outer boundary of the compound karst feature shall be drawn by connecting the last closed contour of each individual karst feature with a tangential line.

Karst, Subsurface

Karst features expressed under the ground surface.

Karst, Surface

Karst features expressed on the ground surface.

Kennel

An establishment where any person engages in a business involving boarding, keeping, letting for hire, dogs, cats or other domestic animals.

Land Disturbing Activity

Any man-made change of the land surface including removing vegetative cover, removal of trees, excavating, filling and grading but not including agricultural land uses such as planting, growing, cultivating and harvesting of crops, growing and tending of gardens and landscape modifications.

Landscape Area

That portion of a site that is required to be planted with landscape. Areas on the top of buildings, walls, in planters, or other similar areas do not count as landscape area, for the purpose of minimum landscape area requirements.

Landscape

Any combination of vegetation, such as trees, shrubs, ground cover, thickets or grasses, that are planted, preserved, transplanted, maintained and groomed to develop, articulate and enhance the aesthetic quality of the area as well as provide erosion, drainage and wind control. Landscape may include structural features, such as fences, terraces, arbors, sculptures, fountains, and other appurtenances.

LEED Green Building Rating System

The most recent version of the leadership in energy and environmental design (LEED) commercial green building rating system, or other related LEED rating system, approved by the U.S. Green Building Council.

Length, Block

The distance as measured along the street centerline between intersecting streets.

Length, Cul-de-sac

The distance as measured along the street centerline between the intersecting street and the center point of the cul-de-sac bulb.

Letter of Final Determination (LFD)

A letter issued by FEMA during the mapping update process which establishes final elevations and provides the new flood map and flood study to the community. The LFD initiates the six-month adoption period. The community must adopt or amend its floodplain management regulations during this six-month period unless the community has previously incorporated an automatic adoption clause.

Letter of Map Change (LOMC)

A general term used to refer to the several types of revisions and amendments to FEMA maps that can be accomplished by letter. They are broken down into the following categories:

1. Conditional Letter of Map Revision (CLOMR) means FEMA's comment on a proposed project that would, upon construction, result in modification of the SFHA through the placement of fill outside the existing regulatory floodway.
2. Conditional Letter of Map Revision Based on Fill (CLOMR-F) means a letter from FEMA stating that a proposed structure that will be elevated by fill would not be inundated by the base flood.
3. Letter of Map Amendment (LOMA) means an amendment by letter to the currently effective FEMA map that establishes that a building or land is not located in a SFHA through the submittal of property specific elevation data. A LOMA is only issued by FEMA.

4. Letter of Map Amendment Out as Shown (LOMA-OAS) means an official determination by FEMA that states the property or building is correctly shown outside the SFHA as shown on an effective NFIP map. Therefore, the mandatory flood insurance requirement does not apply. An out-as-shown determination does not require elevations.
5. Letter of Map Revision (LOMR) means an official revision to the currently effective FEMA map. It is issued by FEMA and changes flood zones, delineations, and elevations.
6. Letter of Map Revision Based on Fill (LOMR-F) means FEMA's modification of the SFHA shown on the FIRM based on the placement of fill outside the existing regulatory floodway.

Lighting

Any fixed source of light emanating from a man-made device, including but not limited to incandescent mercury vapor, metal halide, or sodium lamps, spotlights, streetlights, or construction and security lights.

Lighting Fixture, Full-Cutoff

Lighting that is shielded in such a manner that light rays emitted by the fixture, either directly from the lamp or indirectly from the fixture, are projected below a horizontal plane running through the lowest point on the fixture where light is emitted.

Liquor or Tobacco Sales

An establishment that predominantly sells tobacco products or alcoholic beverages for off-premises consumption. This does not include "Retail Sales" (of any size) or "Grocery or Supermarket" in which tobacco products or alcoholic beverages make up a minority of the sales of the store.

Livestock, Large

Large livestock includes domesticated animals that weigh more than 350 pounds including but not limited to horses, ponies, stallions, colts, geldings, mares, bulls, steers, heifers, cows, calves, mules, alpacas, emus, jacks jennets and other animals that the Planning and Transportation Director determines to be of similar size, weight, and that have similar impacts on the land. Wild animals requiring a possession permit through the Indiana Department of Natural Resources are excluded from this definition and are prohibited.

Livestock, Medium

Medium livestock includes domesticated animals weighing between 100 pounds and 350 pounds including but not limited to sheep, rams, lambs, burros, goats, kids, swine, other animals that the Planning and Transportation Director determines to be of similar size, weight, and that have similar impacts on the land, and any animals normally found in the wild state that are being kept for exhibition or commercial purposes or as private pets. Wild animals requiring a possession permit through the Indiana Department of Natural Resources are excluded from this definition and are prohibited.

Livestock, Small

Small livestock includes domesticated animals weighing less than 100 pounds including but not limited to sheep, rams, lambs, burros, goats, kids, swine, other animals that the Planning and Transportation Director determines to be of similar size, weight, and that have similar impacts on the land, and any animals normally found in the wild state that are being kept for exhibition or commercial purposes or as private pets. Wild animals requiring a possession permit through the Indiana Department of Natural Resources are excluded from this definition and are prohibited.

Lodging House

See "Residential Rooming House."

Lot

A contiguous parcel of land in identical ownership throughout, bounded by other lots or streets, and used or set aside and available for use as the site of one or more buildings or other definite purpose. For the purpose of this UDO, a lot may or may not coincide with a lot of record and shall be duly recorded.

Lot Area

The computed area contained within the boundary of all perimeter lot lines.

Lot Depth

The horizontal distance between the front and rear lot lines.

Lot Line, Corner

The point at which two lot lines meet.

Lot Line, Front

That portion of a lot that abuts and runs parallel to a street. For corner lots, both sides that abut a street are front lot lines.

Lot Line, Rear

The line dividing one lot from another and on the opposite side of the lot from the front lot line. In the case of an irregular or triangular shaped lot, a line 10 feet inside the lot boundary, parallel to and at the maximum distance from the front lot line. In the case of a corner lot, a lot line that adjoins a front lot line and extends away from the street shall be considered side lot lines.

Lot Line, Side

Any lot line that is not a front lot line or a rear lot line.

Lot of Record

A lot that was created by subdivision, the plat of which has been approved as required by applicable city and state law and recorded in the Office of the Monroe County Recorder; or a parcel of land, the bounds of which have been legally established by a separate deed and duly recorded in the Office of the Monroe County Recorder. "Legally established" means not in violation of any city or state subdivision regulations existing at the time the lot was established by deed. Also, a parcel described by a single deed containing more than one metes and bounds description shall be one lot of record unless the parcels described by such separate descriptions have, in the past, been lawfully established parcels of record with separate deeds.

Lot Width

The horizontal distance between side lines measured along a line that is parallel to the front lot line. For lots with existing buildings, the lot width shall be measured at the front building wall of the primary building. For newly created lots, the lot width shall be measured at the minimum required setback distance from the front lot line.

Lot, Corner

A lot having at least two adjacent sides that abut for their full length along streets. Both such lot lines shall be considered front lot lines for the purposes of determining setbacks.

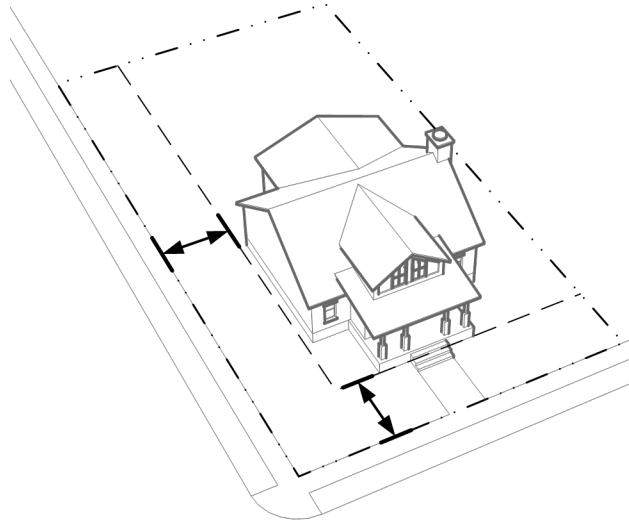


Figure 7: Corner Lot Definition

Lot, Interior

Any lot, the side property line of which abuts the rear property line of one or more lots, and that is not separated by an alley or any other public right-of-way.

Lot, Lawful Nonconforming

Any lot of record that does not conform with one or more provisions of this UDO, but that lawfully existed upon the effective date of the provisions of this UDO with which the lot does not conform.

Lot, Through

A lot having a pair of opposite lot lines along two more or less parallel public streets and that is not a corner lot.

Lot, Zoning

A single tract of land, located within a single block that is designated by its owner or developer as a tract to be used, developed, or built upon as a unit, under single ownership or control. A zoning lot may or may not coincide with a lot of record.

Low- and Moderate-Income Housing

Residential housing units that serve individuals, households, or families with annual incomes less than 80 percent of the Area Median Income. These housing units would qualify under Section 20.04.110(c)(2) (Eligibility) for Tier 2 affordable housing incentives.

Lowest Adjacent Grade

For purposes of floodplain regulations, the lowest elevation, after completion of construction, of the ground, sidewalk, patio, deck support, or basement entryway immediately next to the structure.

Lowest Floor

For floodplain management purposes, the lowest elevation described among the following:

- 1) The lowest floor of a building.
- 2) The basement floor.
- 3) The garage floor if the garage is connected to the building.
- 4) The first floor of a structure elevated on pilings or pillars.

- 5) The floor level of any enclosure, other than a basement, below an elevated structure where the walls of the enclosure provide any resistance to the flow of floodwaters. Designs for meeting the flood opening requirement must either be certified by a registered professional engineer or architect or meet or exceed the following criteria:
 - a. The walls are designed to automatically equalize the hydrostatic flood forces on the walls by allowing for the entry and exit of floodwaters.
 - b. At least two (2) openings are designed and maintained for the entry and exit of floodwater; and these openings provide a total net area of at least one (1) square inch for every one (1) square foot of enclosed area. The bottom of all such openings shall be no higher than one (1) foot above the exterior grade or the interior grade immediately beneath each opening, whichever is higher. Doorways and windows do not qualify as openings.
- 6) The first floor of a building elevated on pilings or columns in a coastal high hazard area (as that term is defined in 44 CFR 59.1), as long as it meets the requirements of 44 CFR 60.3.

Lumen

A unit that measures the quantity of light that shines on an area of one square foot, every point of which one foot is away from a light source equal to one-foot candle.

Lux

A unit of illumination equal to the direct illumination on a surface that is one meter from a uniform point source of one candle intensity, or equal to one lumen per square meter.

Manufactured Home

For purposes of floodplain regulations, a structure, transportable in one or more sections, which is built on a permanent chassis and is designed for use with or without a permanent foundation when attached to the required utilities. The term "manufactured home" does not include a "recreational vehicle."

Manufactured Home Park

A parcel of land containing two or more dwelling sites, with required improvements and utilities that are leased for the long-term placement of "Mobile Home Dwellings" and/or "Manufactured Home Dwellings." A "Manufactured Home Park" does not include an establishment primarily engaged in the sale of "Mobile Home Dwellings" or "Manufactured Home Dwellings" where unoccupied units are parked for inspection or sale.

Manufactured Home Park or Subdivision

For purposes of floodplain regulations, a parcel (or contiguous parcels) of land divided into two or more manufactured home lots for rent or sale.

Manufacturing, Artisan

An establishment or business where an artist, artisan, or craftsperson teaches, makes, or fabricates crafts or products by hand or with minimal automation and may include direct sales to consumers. This definition includes uses such as small-scale fabrication but is not limited to, manufacturing, and other industrial uses and processes such as welding and sculpting.

Manufacturing, Heavy

The assembly, fabrication, or processing of goods and materials using processes that ordinarily have greater than minimal impacts on the environment, or that ordinarily have significant impacts on the use and enjoyment of adjacent property in terms of truck traffic, railroad activities, noise, smoke, fumes, visual impact, odors, glare, or health and safety hazards, or that otherwise do not meet the definition of "Light Manufacturing." This use may include outdoor activities and outdoor storage. Heavy manufacturing generally includes processing and fabrication of products made from extracted or raw materials or products involving flammable, hazardous, or explosive materials and processes, uses involving the fabrication, use, or repair of heavy special purpose equipment. Examples of this use include beverage bottling plants, tool and die shops, motor vehicle or heavy machinery assembly, carpet or furniture manufacturing, dairy works, ice works, metal fabrication, stonecutting, and food processing, unless performed on a scale that meets the definition of "Artisan Manufacturing." "Heavy Manufacturing" shall not include any use that is otherwise listed specifically in Table 3-2 as a Permitted or Conditional Use.

Manufacturing, Light

The assembly, fabrication, or processing of goods and materials using processes that ordinarily do not involve significant truck traffic or railroad operations and do not create material amounts of noise, smoke, fumes, odors, glare, or health or safety hazards outside of the building or lot where such assembly, fabrication, or processing takes place, and where such processes are housed entirely within an enclosed building, except as may be authorized in this UDO. Light manufacturing generally includes processing and fabrication of finished products predominantly from previously prepared materials and includes processes not involving flammable or explosive materials. Examples of activities include but are not limited to fabrication of sporting goods or wearing apparel, small medical or specialty equipment, or musical instruments; commercial digital printing operations; and assembly of small appliances or equipment. The term "Light Manufacturing" shall not include any use that is otherwise listed specifically in Table 3-2 as a Permitted or Conditional Use.

Market Value

For purposes of floodplain regulations, the building value, excluding the land (as agreed to between a willing buyer and seller), as established by what the local real estate market will bear. Market value can be established by independent certified appraisal, replacement cost depreciated by age of building (actual cash value) or adjusted assessed values.

Mausoleum

See "Cemetery or Mausoleum."

Mayor

The mayor of the City of Bloomington, Indiana.

Medical Clinic

A health care facility where patients are admitted for examination and treatment on an outpatient basis by one or more physicians, dentists, other medical personnel, psychologists, or social workers, and where patients are not lodged overnight. This use includes immediate medical care clinics, ambulatory surgical care (as defined by Indiana Code 16-18-2-14), birthing centers, and outpatient care facilities. This definition does not include "methadone treatment facility."

Meeting, Banquet, or Event Facility

A facility with or without food preparation equipment, available for lease by private parties to accommodate private functions including, but not limited to, banquets, meetings, receptions, fellowship, and other social functions and available on a rental basis to the general public. A "Meeting, Banquet, or Event Facility" may also include on site kitchen/catering facilities.

Methadone Treatment Facility

A clinic or facility engaged in dispensing Methadone (dolophine) for the purpose of elimination or reduction of opiate use by individuals suffering from substance use disorder. This definition does not include "opioid rehabilitation facility."

Mitigation

For purposes of floodplain regulations, sustained actions taken to reduce or eliminate long-term risk to people and property from hazards and their effects. The purpose of mitigation is twofold: to protect people and structures, and to minimize the cost of disaster response and recovery.

Mobile Home Park

See "Manufactured Home Park."

Monopole

A single, self-supporting vertical pole used to support telecommunications equipment, with no guy wire anchors or lattice, usually consisting of a galvanized or other unpainted metal or a wooden pole with below grade foundations.

Mortuary

An establishment where the deceased are physically prepared for final interment.

Mosque

See "Place of Worship."

Motel

See "Hotel or Motel."

Motor Vehicle

Any self-propelled vehicle that requires state license plate registration to be used on public roads and highways, including any non-motorized attachments, such as, but not limited to, trailers or other conveyances that are connected to or propelled by the actual motorized portion of the vehicle.

Multi-tenant Center

A group of separate buildings with multiple tenants, operating under a common name or management; a single building containing multiple uses where there are specific exterior entrance ways for individual uses; or a group of uses on separate but adjoining properties that request treatment as a multiuse complex.

Multi-tenant Nonresidential Center, Large-scale

A group of two or more retail establishments, managed as a unit, sharing a common site, parking area and entrances, and having a gross floor area of one hundred thousand square feet or greater.

Multiuse Path

A hard-surface pathway physically separated from the street by a tree plot, located within the public right-of-way, and designed for bicyclists, pedestrians, and other non-motorized traffic.

Multi-use Trail

A hard-surface, off-road pathway used by bicyclists, pedestrians, and other nonmotorized traffic typically located within or along a greenway.

Mural

A painting on the side of a building, wall, or structure; or a painting on the ground or the ceiling of a building or structure. A mural that does not function as a sign is not regulated by the Unified Development Ordinance. Murals that function as a sign are regulated in the Unified Development Ordinance as a wall sign.

MUTCD

The Manual on Uniform Traffic Control Devices.

National Flood Insurance Program (NFIP)

The federal program that makes flood insurance available to owners of property in participating communities nationwide through the cooperative efforts of the Federal Government and the private insurance industry.

National Geodetic Vertical Datum (NGVD) of 1929

As corrected in 1929 is a vertical control used as a reference for establishing varying elevations within the floodplain.

Native Species

Naturally occurring, indigenous plants within the City of Bloomington. Native species are adapted to the soil and climate in which they live and have evolved defenses to many diseases and pests.

Nature Preserve

Areas with environmental resources intended to remain in a predominately natural or undeveloped state to provide resource protection or passive recreation.

New Construction

For floodplain purposes, any structure for which the "start of construction" commenced on or after the effective date of floodplain management regulations adopted by a community and includes any subsequent improvements to such structures.

New Manufactured Home Park or Subdivision

For purposes of floodplain regulations, a manufactured home park or subdivision for which the construction of facilities for servicing the lots on which the manufactured homes are to be affixed (including at a minimum, the installation of utilities, the construction of streets, and either final site grading or the pouring of concrete pads) is completed on or after the effective date of the community's first floodplain ordinance.

Night Club

See "Bar or Dance Club."

Non-Boundary River Floodway

The floodway of any river or stream other than a boundary river.

North American Vertical Datum of 1988 (NAVD 88)

As adopted in 1993 is a vertical control datum used as a reference for establishing varying elevations within the floodplain.

Nursing or Convalescent home

An extended or intermediate care establishment licensed by the State of Indiana, that maintains and operates continuous day and night facilities providing room and board, personal services and skilled nursing care to individuals who, by reason of advanced age, chronic illness, or infirmity, are unable to care for themselves. Such home does not contain equipment for surgical care or for the treatment of injury. This definition includes "rest home."

Obstruction

For purposes of floodplain regulations, includes, but is not limited to, any dam, wall, wharf, embankment, levee, dike, pile, abutment, protection, excavation, canalization, bridge, conduit, culvert, building, wire, fence, rock, gravel, refuse, fill, structure, vegetation, or other material in, along, across or projecting into any watercourse which may alter, impede, retard or change the direction and/or velocity of the flow of water; or due to its location, its propensity to snare or collect debris carried by the flow of water, or its likelihood of being carried downstream.

Office

A facility in which business, professional, administrative and/or clerical activities are conducted, including but not limited to insurance agencies, architects, lawyers, engineers, real estate offices, government offices, motor vehicle licensing branches, post offices, radio/TV stations, research centers, social services, testing laboratories, advertising agencies, travel agencies, abstract and title agencies or insurance companies, and stockbrokers. This use does not include "Medical Clinic," "Methadone Treatment Facility," or "Opioid Rehabilitation Facility." Accessory uses may include cafeterias, health and exercise facilities, or other amenities primarily for the use of employees in the firm or building.

Official Zoning Map

A map of the City of Bloomington, Indiana, that legally delineates the boundaries of zoning districts as they apply to the properties within the City. There is only one Official Zoning Map, and it is kept up to date by the Plan Commission and the Planning and Transportation Director.

One-Percent Annual Chance Flood

The flood that has a one percent (1%) chance of being equaled or exceeded in any given year. See "Regulatory Flood."

Open Space

An area of land not covered by buildings, parking structures, or accessory uses except for recreational structures. Open space may include nature areas; streams and floodplains; meadows or open fields containing baseball, football, and soccer fields, golf courses, swimming pools, bicycle paths, etc. Open space does not include street rights-of-way, platted lot area, private yards, patio areas, or land scheduled for future development.

Opioid Rehabilitation Facility

A facility, clinic, or office engaged in treating or counseling patients for reduction and management of opiate use, which may but need not include treatments involving medication, and where patients do not receive housing or overnight accommodation.

Opioid Rehabilitation Home

A dwelling where persons are living together, with or without staff, as a single housekeeping unit providing care, supervision, or treatment to reduce dependence or maintain independence of opioid drugs. An Opioid Rehabilitation Home is subject to the protections of the federal Fair Housing Act Amendments of 1988, as defined in that Act and interpreted by the courts, as they apply to citizens in drug addiction treatment programs, and by any similar legislation of the State of Indiana,

Opioid Rehabilitation Home, Small

Opioid Rehabilitation Home, Small is a facility designed for and occupied by eight or less residents living together.

Opioid Rehabilitation Home, Large

A facility designed for and occupied by nine or more residents living together.

Orchard or Tree Farm, Commercial

A group of trees grown for either home or commercial use where products are sold on site or transported to market.

Outdoor Retail and Display

The outdoor sale and display area of retail goods, produce, plants, handcrafts, and the like conducted on the same lot or parcel as the principal business with which such activities are associated.

Outline Plan

The name for PUD district ordinance text and PUD preliminary plans under the Bloomington Zoning Ordinance effective 1973-1995. See "Preliminary Plan, PUD" or "PUD district ordinance."

Outlot

A lot of record in a subdivision, nonresidential center or Planned Unit Development that is adjacent to a (public or private) street, roadway or frontage road, and is intended for an additional and separate building or buildings within the development.

Owner

Any person, group of persons, firm or firms, corporation or corporations, or any other legal entity having legal title to or sufficient proprietary interest in the land sought to be developed under these regulations, or their legal representative.

Parapet

That portion of a wall that extends above the roof line.

Parcel

See "Lot."

Park

A parcel of land available to the public for passive and/or active recreation and is maintained and governed by the Bloomington parks board.

Parking Space

Space within a public or private parking area for the storage of one passenger automobile or commercial vehicle under a one and one-half ton capacity.

Partial Demolition

The complete or substantial removal or destruction of any exterior portion of a structure, which shall include but not be limited to:

- 1) Complete or substantial removal or destruction of a porch, wing, cupola, addition, or similar feature; or
- 2) Partial demolition of a roof shall include work that results in any change to the pitch of any portion of the roof, or; covering or otherwise obscuring an existing roof with a new roof of different pitch or material, or; adding any gable, dormer or other similar feature to an existing roof; or
- 3) Any work resulting in the obscuring from view of forty percent or more of the exterior of any facade on the structure; or, removal or destruction of the exterior surface of forty percent or more of the area of any exterior facade on the structure; or
- 4) Construction or attachment of any addition to a structure; or
- 5) Replacement of any window or door where the window or door opening is enlarged or obscured from view; or
- 6) Creation of any new window or door opening.

Pasture

Land covered with grass or similar plants suitable for animals, such as cows and sheep, to eat.

Patio

A level-surfaced area, which may or may not be directly adjacent to a principal building, that has an average elevation of not more than thirty inches above finished grade, and without walls or a roof, usually constructed of concrete, brick, or other masonry material.

Pavement

A durable surface permanently and completely covered with asphalt, concrete, brick, paving blocks, or another surface approved by the city. Crushed gravel, stone, rock, dirt, sand, and grass are not permitted as a paved surface. Permeable parking pavers do not fall under this definition and must meet separate criteria. See "Permeable parking pavers."

Pawn Shop

An establishment that engages, in whole or in part, in the business of loaning money on the security of pledges of personal property, or deposits or conditional sales of personal property, or the purchase or sale of personal property.

Pedestrian Entrance, Primary

Means the principal ingress and egress to and from a building for pedestrian traffic.

Permanent Display Cabinet

A cabinet that is attached to a building that is constructed of durable materials and intended to display signage within.

Permanent Foundation

A structural system for transposing loads from a structure to the earth at a depth below the established frost line without exceeding the safe bearing capacity of the supporting soil.

Permeable Parking Pavers

A pavement system with traditional strength characteristics, but that allows rainfall to percolate through it rather than running off. A permeable pavement system utilizes either porous asphalt, pervious concrete, or plastic pavers interlaid in a running bond pattern and either pinned or interlocked in place. Porous asphalt consists of an open graded coarse aggregate held together by asphalt with sufficient interconnected voids to provide a high rate of permeability. Pervious concrete is a discontinuous mixture of Portland cement, coarse aggregate, admixtures, and water that allow for passage of runoff and air. Gravel or crushed stone is not considered a "permeable parking paver."

Personal Services

Establishments primarily engaged in providing services involving the care of a person or of the care or repair of his or her personal goods or apparel. Personal services usually includes but is not limited to: laundry, including cleaning and pressing service, beauty shops, barbershops, shoe repair, personal copying/shipping services, health spas, photographic studios, tailor/seamstress shop, indoor equipment/party/event rental, tanning salon, bicycle and sports equipment repair, small appliance repair, and similar uses. This definition does not include "Commercial Laundry."

Personal Service, Small

A facility with not more than 7,500 square feet of gross floor area.

Personal Service, Large

A facility with more than 7,500 square feet of gross floor area.

Pet Grooming

A facility where animals are trained for a fee, bathed, clipped, or combed for the purpose of enhancing their aesthetic value or health and for which a fee is charged. This use does not include the overnight boarding of animals, unless as an incidental use.

Petitioner

The property owner or a person legally empowered in writing by the property owner to act on the property owner's behalf, and who thereby has the property owner's authority to make representations and decisions before city officials regarding the use and/or development of the subject real property. The term includes the petitioner's representative.

Petitioner's Representative

A person legally empowered in writing by the petitioner to act on the petitioner's behalf, and who thereby has the petitioner's authority to make representations and decisions before city officials regarding the use and/or development of the subject real property.

Physical Map Revision (PMR)

An official republication of a community's FEMA map to effect changes to base (1-percent annual chance) flood elevations, floodplain boundary delineations, regulatory floodways, and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas, or correction to base flood elevations or SFHAs.

Place of Worship

A structure and outdoor or indoor facilities used for public worship and accessory educational, cultural, and social activities.

Plan Commission

The City of Bloomington advisory Plan Commission or any division thereof. The City of Bloomington Plan Commission is an advisory Plan Commission serving the City of Bloomington as defined under Indiana Code 36-7-1-2, as amended.

Planned Unit Development (PUD)

A large-scale unified development approved under the provisions of Section 20.02.040 (Planned Unit Development Districts). Generally a Planned Unit Development consists of a parcel or parcels of land, controlled by a single landowner, to be developed as a single entity that does not correspond in size of lots, bulk or type of buildings, density, lot coverage, and/or required open space to the regulations established in any district of the Unified Development Ordinance. A Planned Unit Development requires approval through a zoning map amendment. The uses and standards expressed in the PUD district ordinance constitute the use and development regulations for the Planned Unit Development site in lieu of the regulations for a standard zoning district.

Planning and Transportation Director

The officer appointed by and/or delegated the responsibility for the administration of this UDO's regulations by the Plan Commission, as well as administration of the Planning and Transportation Department for the City of Bloomington, Indiana. The term includes the Planning and Transportation Director's authorized representatives.

Plant Nursery or Greenhouse, Commercial

An establishment for the growth, display, and/or wholesale of plants, shrubs, trees, and materials used in indoor or outdoor planting, conducted within or without an enclosed building.

Plat

A map or chart indicating the subdivision or re-subdivision of land, either recorded or in a form suitable to be recorded.

Plat Committee

A committee authorized in the Plan Commission rules that has authority to approve or deny primary plats, secondary plats, and requests for vacation of plats or parts of plats.

Plat, Primary

The primary plat, pursuant to the Indiana Code 36-7-4-700 Series for primary plats, is the plat and plans upon which the approval of a proposed subdivision is based.

Plat, Secondary

The secondary plat, pursuant to Indiana Code 36-7-4-700 Series for secondary plats, is the plat document in recordable form. A secondary plat shall substantially conform to the preceding primary plat, or section thereof.

Police, Fire, or Rescue station

A center operated by a government agency, for the protection of citizens and property from, and for providing public responses to, crime, fire, injury, or other emergencies. This use may include administrative offices, storage of equipment, temporary detention facilities, and the open or enclosed parking of patrol vehicles. This use does not include a "Jail or Detention Facility."

Porch

A roofed structure that is not more than 50 percent enclosed (except for removable screens, or screen doors), on at least two sides, that projects from the exterior wall of a building. If a porch extends from the front of a building

or from any side of the building that faces a street, that side of the porch must be open, and the side(s) that faces the street must not be more than 50 percent enclosed (except for removable screens, or screen doors).

Preliminary Plan, PUD

A drawing or map made to measurable scale upon which is presented a description and definition of the way in which the design requirements of the Planned Unit Development are to be met.

Premises

See "Property."

Preschool

See "School, Public or Private."

Preservation Area

Sites with environmental resources intended to be preserved in their natural state.

Primary School

See "School, Public or Private."

Principally Above Ground

For purposes of floodplain regulations, at least 51 percent of the actual cash value of the structure, less land value, is above ground.

Property

A lot, parcel, tract, or plot of land and the improvements thereon.

Proposal

Any new construction, including accessory structures of at least eight hundred forty square feet, or any building addition larger than ten percent of the gross floor area of a structure.

Public Improvements

The erection, construction, alteration, operation, or maintenance of facilities serving the public interest that may include but is not limited to storm drainage facilities, streets, highways, parkways, sidewalks, pedestrian-ways, transportation corridors, trees, lawns, landscaping, parking areas, lot improvements, or utilities.

Public Place

Any area on public or private property that is easily accessible and clearly visible to the general public. If located on private property, the area must be open to the general public and clearly visible from adjacent public property such as a street or other public thoroughfare or sidewalk.

Public Safety and Nuisance

For purposes of floodplain regulations, anything which is injurious to the safety or health of an entire community, neighborhood or any considerable number of persons, or unlawfully obstructs the free passage or use, in the customary manner, of any navigable lake, or river, bay, stream, canal, or basin.

Public Way

Any street, alley, channel, tunnel, bridge, easement, right-of-way, or other way that is dedicated or granted for public use.

PUD District Ordinance

An ordinance adopted by the Common Council, the purpose of which is to designate a parcel of real property as a Planned Unit Development zoning district; to specify uses or a range of uses permitted in the Planned Unit Development zoning district; to specify development requirements in the Planned Unit Development zoning district; to specify the plan documentation and supporting documentation that may be required; to specify any limitation applicable to the Planned Unit Development zoning district; and to meet the requirements of Indiana Code 36-7-4-1500 et seq.

Quarry

A lot or land or part thereof used for the purpose of extracting stone, sand, gravel, fill, or topsoil for sale.

Quarry adaptive reuse

Redevelopment of a quarry whose operation is no longer feasible into another less intensive use upon completion of environmental mitigation.

Real Estate Sales or Model Home

A dwelling or dwelling unit representative of other dwellings or units offered for sale or lease or to be built in an area of residential development within the City. Before occupancy by a family, a model home may be used as a temporary sales office for the development in which it is located.

Recreation, Indoor

Facilities for entertainment, sports, and recreational activities such as bowling, billiards, arcades, skating, swimming, tennis, teen clubs, escape rooms, and similar indoor activities taking place inside an enclosed building. This definition shall not include gambling devices, adult motion picture theaters, adult entertainment businesses, or any other devices prohibited by law.

Recreation, Outdoor

Commercial entertainment, recreation or games of skill where any portion of the activity takes place outside of a building. Such activities include, but are not limited to, miniature golf, bungee jumping, amusement parks, golf courses, golf driving ranges, drive-in theaters, and other similar uses. This does not include any activities offered by the public sector in a park or playground.

Recreational Equipment

Play apparatuses such as basketball courts, batting cages, swing sets, slides, sandboxes, poles for nets, picnic tables, lawn chairs, barbecue stands, and similar equipment or structures but not including tree houses, swimming pools, playhouses, basketball goals attached to primary or accessory structures, motorized vehicles, trailers, or storage sheds.

Recreational Vehicle

For purposes of floodplain regulations, a vehicle which is:

- 1) built on a single chassis;
- 2) 400 square feet or less when measured at the largest horizontal projections;
- 3) designed to be self-propelled or permanently towable by a light duty truck; and
- 4) designed primarily not for use as a permanent dwelling, but as quarters for recreational camping, travel, or seasonal use.

Recycling Drop-Off, Self-Serve

An accessory or incidental use that serves as a drop-off point for temporary storage for non-hazardous recoverable or recyclable goods such as, but not limited to, newspapers, glassware, plastics, and metal cans. This definition does not include the on-site processing of such items.

Regular Program

For purposes of floodplain regulations, the phase of the community's participation in the NFIP where more comprehensive floodplain management requirements are imposed, and higher amounts of insurance are available based upon risk zones and elevations determined in a FIS.

Regulatory Flood

The flood having a one percent chance of being equaled or exceeded in any given year, as calculated by a method and procedure that is acceptable to and approved by the Indiana Department of Natural Resources and the Federal Emergency Management Agency. The regulatory flood elevation at any location is as defined in Section 20.04.040(c) (General Standards). The "Regulatory Flood" is also known by the term "Base Flood," "One-Percent Annual Chance Flood," and "100-Year Flood."

Regulatory Flood Elevation

The water-surface elevation of the base flood or the 100-year flood as defined by the Federal Emergency Management Agency.

Repetitive Loss

Flood-related damages sustained by a structure on two separate occasions during a 10-year period for which the cost of repairs at the time of each such flood event, on the average, equaled or exceeded 25 percent of the market value of the structure before the damage occurred.

Rescue Station

See "Police/fire/rescue station."

Residential Care Home

See "Group home/residential care home."

Residential Rooming House

A building in which, lodging, with or without meals, is provided for compensation, including but not limited to: a building designed as a single-family dwelling, that is occupied by a group of persons, usually for periods of 30 days or longer, that do not meet the definition of "Family," where the use does not meet the definition of "Bed and Breakfast," "Fraternity or Sorority House," "Student Housing or Dormitory," "Residential Care Facility," or "Hotel or Motel."

Rest Home

See "Nursing or Convalescent Home."

Restaurant

An establishment that sells food or beverages in a ready-to-consume state, in individual servings, that the customer consumes while seated at tables or counters located in or immediately adjacent to the building in which the use is located, and that may include carry-out service. This includes any portion of an establishment used for seating for the consumption of food on the premises that sells prepared food or beverages, such as a bakery, delicatessen, cafes, and coffee shops.

Retail Sales

Establishments engaged in selling goods or merchandise to the general public for personal or household consumption and rendering services incidental to the sale of such goods. This use does not include any form of retail sales listed separately in Table 3-1.

Retail Sales, Small

A facility or establishment with up to 5,000 square feet of gross floor area.

Retail Sales, Medium

A facility or establishment with between 5,001 and 10,000 square feet of gross floor area.

Retail Sales, Large

A facility or establishment with between 10,001 and 60,000 square feet of gross floor area.

Retail Sales, Big Box

A facility or establishment with more than 60,000 square feet of gross floor area.

Retention Facilities

Facilities dedicated to the permanent on-site maintenance of stormwater.

Right-of-way

A strip of land reserved for, occupied, or intended to be occupied by transportation facilities, public utilities, or other special public uses that may include sidewalks, bicycle or pedestrian pathways, streets, alleys, or other public thoroughfares, or buffers adjacent to same. Right-of-way may be held in the form of easement or fee.

Riparian Buffer

Wooded or vegetated areas along creeks, streams, rivers, or designated regulated drains. The area on each bank designated as a riparian area shall be no wider than the average width of the creek, stream or river at normal flow elevation, but be no less than ten feet in width from the top of banks.

Riverine

For the purposes of floodplain regulations, means relating to, formed by, or resembling a river (including tributaries), stream, brook, etc.

Road

See "Street."

Rules of Procedure

The rules which govern how a decision-making body conducts meetings and reaches its conclusions.

Salvage or Scrap Yard

A facility, usually outdoors, where waste or scrap materials are bought, sold, exchanged, collected, salvaged, stored, baled, packed, disassembled, or handled, including, but not limited to, motor vehicles or parts thereof, used lumber, household garbage, inoperable machinery or appliances, scrap iron and other metals, paper, plastics, glass, rags or tires. Where such materials are a by-product of a permitted use, such activity shall be considered "outdoor storage," as defined and permitted separately in this UDO.

Sand Production

See "Gravel, Cement, or Sand Production."

School, College or University

An institution other than a "School, Trade or Business" that provides full-time or part-time education beyond high school.

School, Public or Private

A public or private institution that offers instruction in any of the branches of learning and study comparable to that taught in the public schools through high school level under the Indiana School Laws, including pre-school, pre-kindergarten, kindergarten, elementary school, and junior and senior high schools. This use does not include "School, Trade or Business," or "School, College or University."

School, Trade or Business

A private or public educational facility with a curriculum that is not comparable to that taught in the public schools through the high school level and focused upon skills required in business, trades, or the arts.

Searchlight

A powerful light equipped with a reflector to produce a bright beam intended to draw attention.

Seasonal Sales

Any business or use (primary or accessory) that may include but not be limited to retail sales of garden supplies and equipment; roadside stands for the sale of fruits and vegetables, plants, flowers, Christmas trees, pumpkins, fireworks; and other similar businesses or uses. This definition does not include "Farm Produce Sales."

Secondary School

See "School, Public or Private."

Section 1316

For purposes of floodplain regulations, that section of the National Flood Insurance Act of 1968, as amended, which states that no new flood insurance coverage shall be provided for any property that the Administrator finds has been declared by a duly constituted state or local zoning authority or other authorized public body to be in violation of state or local laws, regulations, or ordinances that intended to discourage or otherwise restrict land development or occupancy in flood-prone areas.

Sediment

Solid mineral or organic material that, in suspension, is being transported, or has been moved from its original site by air, water, gravity or ice and has been deposited at another location.

Setback

The required distance between any structure or parking area and the lot lines of the lot or parcel on which they are located.

Setback, B-Line Trail

The line that defines the minimum distance that any area used for structures or vehicle parking spaces shall be separated from the B-Line trail right-of-way.

Setback, Front

The line that defines the depth of the required front yard measured from the front property line to a regulated structure. The front setback shall be measured from the proposed right-of-way as indicated on the Transportation Plan except that the front setback adjacent to a street classified as Neighborhood Residential in the Transportation Plan shall be measured from the existing right-of-way. The front setback shall be parallel with the street right-of-way line. For individual building sites in the RMH zoning district, the front setback is measured from the edge of pavement of the interior streets. For corner lots, the front setback shall apply to all frontages adjacent to a street right-of-way.

Setback, Front Smallest

The smallest existing front setback of the primary residential structures abutting and along the same block face as the subject property. For corner lots, the smallest front setback of the abutting primary residential structures on both block faces may be used to determine the average front setback.

Setback, Parking

The line that defines the minimum distance that any area used for vehicle parking spaces shall be separated from the street right-of-way. The parking setback shall be parallel with the street right-of-way line.

Setback, Rear

The line that defines the width or depth of the required rear yard. The rear setback line shall be parallel with the property line.

Setback, Side

The line that defines the width or depth of the required side yard. The side setback line shall be parallel with the property line.

Sexually Oriented Business

Any establishment, whether conducted permanently or intermittently, that primarily engages in the business of offering a service or product, for sale, display, exhibition, or viewing, that is distinguished or characterized by an emphasis on matter depicting, describing, or relating to specified sexual activities or specified anatomical areas. This includes but is not limited to adult bookstores, adult cabarets, adult motion picture theaters, adult novelty stores, adult video arcades, bathhouses, and lingerie modeling studios.

Sheet Flow Area

For the purposes of floodplain regulations, see “area of shallow flooding”.

Shrub

A woody plant that is usually greater than three feet but less than twenty feet in height that generally exhibits spreading stems and a bushy appearance.

Sidewalk

A hard-surface pathway within the street right-of-way that is designated for the exclusive use of pedestrian traffic.

Sign

Any display or device placed on a property in any fashion that can be seen from a public place or a public right-of-way that is designed, intended, or used to convey any identification, message or information other than an address number.

Sign Height

The vertical distance measured from either the ground at the base of the sign or from the crown of an adjacent street to the highest point of the sign or sign structure, whichever is greater.

Sign, Awning

A wall sign that is a part of or attached to an awning, canopy, or other fabric, plastic, or structural protective cover over a door, entrance, window, or outdoor service area.

Sign, Freestanding

A sign anchored directly to the ground or supported by one or more posts, columns, or other vertical structures or supports; and not attached to or dependent for support from any building.

Sign, Lawful Nonconforming

Any sign lawfully existing at the time of the enactment of any provision of this UDO, or any amendment thereto, with which the sign does not comply.

Sign, Multi-tenant

An identification sign for a commercial site with multiple tenants, displaying the names of each tenant on the site.

Sign, Permanent

A sign attached to a building or structure and that is made of materials intended for long-term use.

Sign, Portable

Any sign not permanently attached to the ground or other permanent structure, or a sign designed to be transported including, but not limited to, signs designed to be transported by means of wheels.

Sign, Projecting

A sign attached to and projecting out from a building face or wall, generally at right angles to the building. Projecting signs include signs that are totally in the right-of-way, partially in the right-of-way, or fully on private property.

Sign, Public

A sign erected by or on the order of a public officer in the performance of a public duty, such as signs to promote safety, no trespassing, or traffic signs; signs to indicate transit stops; memorial plaques; or signs of historic interest.

Sign, Sandwich Board

A movable sign not secured or attached to the ground or surface upon which it is located and constructed in such a manner as to form an "A" or a tent-like shape, hinged or not hinged at the top; each angular face held at an appropriate distance by a supporting member.

Sign, Temporary

Any sign that is not permanently anchored or secured to a building and not having supports or braces permanently secured to the ground, including but not limited to: banners, pennants, or advertising displays including portable signs that are intended to be displayed for a limited period of time.

Sign, Tenant Panel

Individual panels on a multi-tenant sign advertising one specific business within the center.

Sign, Wall

A sign attached to and/or integral with the exterior wall of a building or structure with the exposed face of the sign in a plane parallel to the plane of the exterior wall and that does not project more than 12 inches from the exterior wall surface.

Sign, Window

Any sign or advertising device affixed to the interior or exterior of a window or placed immediately behind a window frame so as to be seen from persons outside the building.

Site Plan

A map of a site, drawn accurately to scale, showing existing and proposed features of the site including but not limited to buildings and other structures, circulation, grading, trees, and landscaping, sufficient for the review required in this UDO. A "site plan" shall serve as the development plan regulated by the Indiana Code 36-7-4-1400 Series.

Site, Lawful Nonconforming

A site used and/or developed such that the site does not conform with one or more development standards contained in this UDO, but where such nonconformity and such use and/or development lawfully existed upon the effective date of the provisions of this UDO with which the site does not conform.

Solar Collector, Ground or Building Mounted

A system of panels, wiring, and related equipment used to transform direct solar energy into thermal, chemical, or electrical energy that is mounted either to the ground or to a building.

Solid Waste Disposal Facility

For the purposes of floodplain regulation, any facility involved in the storage or disposal of non-liquid, non-soluble materials ranging from municipal garbage to industrial wastes that contain complex and sometimes hazardous substances. Solid waste also includes sewage sludge, agricultural refuse, demolition wastes, mining wastes, and liquids and gases stored in containers.

Special Event

A temporary use on public or private property that is not excluded from regulation by this UDO and is not listed as a separate Temporary Use by this UDO. This use includes but is not limited to fundraising activities, educational, historic, religious, and patriotic displays or exhibits, circuses, amusements, outdoor concerts, festivals, revivals, street fairs, outdoor arts and crafts fairs, and other organized community events.

Special Exception

A process under the Bloomington Zoning Ordinance effective 1973-1995 whereas a use that is so designated may be approved by the Board of Zoning Appeals if it meets special conditions.

Special Flood Hazard Area (SFHA)

For the purposes of floodplain regulation, synonymous with "areas of special flood hazard" and floodplain, means those lands within the jurisdiction of the City subject to a one percent (1%) or greater chance of flooding in any given year. Special flood hazard areas are designated by the Federal Emergency Management Agency on Flood Insurance Rate Maps and Flood Insurance Studies as Zones A, AE, AH, AO, A1 30, A99, or VE. The SFHA includes areas that are flood prone and designated from other federal, state or local sources of data including but not limited to best available flood layer maps provided by or approved by the Indiana Department of Natural Resources, historical flood information reflecting high water marks, previous flood inundation areas, and flood prone soils associated with a watercourse.

Specified Anatomical Areas

Any of the following:

- 1) Less than completely and opaquely covered human genitals, pubic region, buttocks, anus or female breasts below a point immediately above the top of the areolae; or
- 2) Human male genitals in a discernible turgid state, even if completely and opaquely covered.

Specified Sexual Activities

Any of the following:

- 1) Human genitals in a state of sexual stimulation or arousal;
- 2) Acts of or simulation of human masturbation, sexual intercourse or sodomy;
- 3) Fondling or other erotic touching of human genitals, pubic regions, buttocks or female breasts;
- 4) Flagellation or torture in the context of a sexual relationship;
- 5) Masochism, erotic or sexually oriented torture, beating or the infliction of pain;
- 6) Erotic touching, fondling or other such contact with an animal by a human being; or
- 7) Human excretion, urination, menstruation, vaginal or anal irrigation as part of or in connection with any of the activities set forth in divisions (1) through (6) above.

Special Flood Hazard Area (SFHA) Zones

Portions of the SFHA in which the principal source of flooding is runoff from rainfall, snowmelt, or a combination of both. In A zones, floodwaters may move slowly or rapidly, but waves are usually not a significant threat to buildings. These areas are labeled as Zone A, Zone AE, Zones A1-A30, Zone AO, Zone AH, Zone AR and Zone A99 on a FIRM. The definitions are presented below:

Zone A

Areas subject to inundation by the one-percent annual chance flood event. Because detailed hydraulic analyses have not been performed, no base flood elevation or depths are shown.

Zone AE and A1-A30

Areas subject to inundation by the one-percent annual chance flood event determined by detailed methods. Base flood elevations are shown within these zones. (Zone AE is on new and revised maps in place of Zones A1-A30).

Zone AO

Areas subject to inundation by one-percent annual chance shallow flooding (usually sheet flow on sloping terrain) where average depths are between one and three feet. Average flood depths derived from detailed hydraulic analyses are shown within this zone.

Zone AH

Areas subject to inundation by one-percent annual chance shallow flooding (usually areas of ponding) where average depths are between one and three feet. Average flood depths derived from detailed hydraulic analyses are shown within this zone.

Zone AR

Areas that result from the decertification of a previously accredited flood protection system that is determined to be in the process of being restored to provide base flood protection.

Zone A99

Areas subject to inundation by the one-percent annual chance flood event, but which will ultimately be protected upon completion of an under-construction Federal flood protection system. These are areas of special flood hazard where enough progress has been made on the construction of a protection system, such as dikes, dams, and levees, to consider it complete for insurance rating purposes. Zone A99 may only be used when the flood protection system has reached specified statutory progress toward completion. No base flood elevations or depths are shown.

Stadium

A permanent facility for the staging of amateur and/or professional sporting events, concerts, or similar activities consisting of an open-air or enclosed arena/stadium and related support facilities.

Staff

The Planning and Transportation Director and all employees of the Planning and Transportation Department of the city under the supervision of the Planning and Transportation Director, and subject to the authority of the Planning and Transportation Director.

Standardized Business

Any type of commercial establishment located in the Courthouse Square Downtown Character Overlay or University Village Downtown Character Overlay, that are required by contractual or other arrangement or affiliation to offer or maintain standardized services, merchandise, menus, employee uniforms, trademarks, logos, signs, or exterior design. This use does not include "Office" uses located above the ground floor and any commercial businesses located in such a manner as to be devoid of any building frontage that is visible to a street,

Start of Construction

For purposes of floodplain regulations, includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, or improvement was within 180 days of the permit date. The actual start means either the first placement of permanent construction of a structure on a site, such as the pouring of a slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, foundations, or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure. For a substantial improvement, the actual start of construction means the first alteration of any wall, ceiling, floor, or other structural part of a building, whether or not that alteration affects the external dimensions of the building.

State

The state of Indiana.

Stone Processing

Manufacturing establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses.

Storage, Outdoor

The storage of any material outside of an enclosed building for a period greater than 24 hours, including but not limited to storage of items awaiting processing or repair. This use does not include "Vehicle Sales or Rental" or accessory "Outdoor Retail and Display" uses.

Storage, Self-Service

A building or group of buildings consisting of individual, self-contained units that are leased to individuals, organizations, or businesses for self-service storage of personal property.

Story

The portion of a building intended for human occupancy included between the upper surface of a floor and the upper surface of the next floor above or the roof, ignoring atriums and other features that extend vertically more than 15 feet. For single-family, duplex, triplex, and fourplex uses, any portion of a story exceeding 14 feet in height shall be considered as an additional story for each 14 feet or fraction thereof.

Stream, Intermittent

A stream that flows during certain times of the year when smaller upstream waters are flowing and when groundwater provides enough water for stream flow. Runoff from rainfall or other precipitation supplements the flow of an intermittent stream, also called a seasonal stream. During dry periods, such streams may not have flowing surface water, but they do have a discernable stream bed. Larger seasonal streams are more common in dry areas. An artificial drainageway (made by humans) is not an intermittent stream.

Stream, Perennial

A year-round stream that typically has water flowing in it year-round. Most of the water comes from smaller upstream waters or groundwater while runoff from rainfall or other precipitation is supplemental.

Street

A public thoroughfare, including road, highway, drive, lane, avenue, place, boulevard, and any other thoroughfare that has been constructed to public street standards.

Street Lighting Plan

A site plan showing the location and type of streetlights to be installed including type of fixture and bulb type.

Street, Stub

A street intended to be extended in conjunction with the subdivision and development of adjacent unplatted land.

Structural Alterations

Any change in the supporting members of a building or structure such as bearing walls, partitions, columns, beams, or girders; or any change in the footprint or increase in the size of living space. Structural alterations also include substantial roofing and siding work when repairs are made to the structure beneath.

Structure**Structure (Generally)**

In all other contexts, anything constructed or erected that requires location on the ground or attachment to something having a location on the ground, including but not limited to buildings, sheds, detached garages, mobile homes, manufactured homes, above-ground storage tanks, freestanding signs, and other similar items.

Structure (Floodplain Regulations)

For purposes of floodplain regulations, a walled and roofed building, including a gas or liquid storage tank, which is principally above ground. The term includes a manufactured home, as well as a prefabricated building. It also includes recreational vehicles installed on a site for more than 180 consecutive days.

Structure, Accessory**Structure, Accessory (Generally)**

See "Building or Structure, Accessory."

Structure, Accessory (Floodplain Regulations)

For purposes of floodplain regulations, a structure with a floor area 400 square feet or less that is on the same parcel of property as a principal structure and the use of which is incidental to the use of the principal structure; an accessory structure specifically excludes structures used for human habitation.

1. Accessory structures are considered walled and roofed where the structure includes at least two outside rigid walls and a fully secured roof.
2. Examples of accessory structures include but are not necessarily limited to two-car detached garages (or smaller), carports, storage and tool sheds, and small boathouses.
3. The following may have uses that are incidental or accessory to the principal structure on a parcel but are generally not considered to be accessory structures by the NFIP:
 - a. Structures in which any portion is used for human habitation, whether as a permanent residence or as temporary or seasonal living quarters, such as a detached garage or carriage house that includes an apartment or guest quarters, or a detached guest house on the same parcel as a principal residence;
 - b. Structures used by the public, such as a place of employment or entertainment; and,
 - c. Development that does not meet the NFIP definition of a structure for floodplain management purposes. Examples includes, but are not necessarily limited to, a gazebo, pavilion, picnic shelter, or carport that is open on all sides (roofed but not walled).

Structure, Historic

For purposes of floodplain regulations, any structures that is:

1. Listed individually in the National Register of Historic Places (a listing maintained by the Department of the Interior) or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;
2. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historical significance of a registered historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district;
3. Individually listed on a state inventory of historic places in states with historic preservation programs which have been approved by the Secretary of the Interior; or
4. Individually listed on a local inventory of historic places in communities with historic preservation programs that have been certified by (a) an approved state program as determined by the Secretary of Interior, or (b) directly by the Secretary of Interior in states without approved programs.

Student Housing or Dormitory

A multiple-family dwelling designed primarily as housing for, or likely to be occupied by, unmarried undergraduate or post-graduate students, including but not limited to:

- 1) Multiple-family dwellings that contain any living units with four or more bedrooms; or
- 2) Multiple-family dwellings with more than 10 dwelling units where more than 33 percent of the living units contain three bedrooms; or

- 3) Residential buildings that do not meet the definition of a "Residential Rooming House" or "Hotel or Motel," in which any of the bedrooms require the use of a common hallway shared by more than three bedrooms, to access the nearest bathroom facilities or to access a cooking area containing a built-in sink, refrigerator, and stove or oven.

For purposes of determining whether a multiple-family dwelling meets this definition, the City may consider the degree to which the facility is occupied by undergraduate or post-graduate students and the degree to which occupancy is marketed to undergraduate or post-graduate students. This use does not include a "Fraternity or Sorority."

Subdivision

The division of a parent tract or other piece of land into at least two smaller lots or the combination of two or more smaller lots into one lot so that, either now or in the future, the subdivider can transfer ownership, construct buildings or establish a use, or create new building sites for leasehold, and as further defined in the Unified Development Ordinance.

Substantial Damage

For purposes of floodplain regulations, damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50 percent of the market value of the structure before the damage occurred.

Substantial Demolition

The moving or razing of a building including the removal or enclosure of 50 percent or more of the structure.

Substantial Improvement

For purposes of floodplain regulations, any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure before the "start of construction" of the improvement. This term includes structures that have incurred "repetitive loss" or "substantial damage" regardless of the actual repair work performed. The term does not include improvements of structures to correct existing violations of state or local health, sanitary, or safety code requirements.

Substantial Removal

As used in the definition of "partial demolition" means an alteration, pulling down, destruction or removal of a portion of a structure which jeopardizes a structure's individual eligibility for listing in the National Register of Historic Places.

Supermarket

See "Grocery or Supermarket."

Supportive Housing

A dwelling where persons are living, together with staff, as a single housekeeping unit providing care, supervision, and treatment for the exclusive use of persons requiring medical, correctional, or other mandated supervision or a protective environment to avoid past or likely future violence, whose right to live together is not protected by the federal Fair Housing Act Amendments, as amended and as interpreted by the courts, and that does not meet the definition of another use in this UDO. This use does not include an "Opioid Rehabilitation Home, Small" or "Opioid Rehabilitation Home, Large," but includes and is not limited to:

- 1) An owner-occupied or nonprofit residential dwelling for the exclusive use of at least two but not more than eight persons, who, together with staff, live as a single housekeeping unit but do not require 24-hour medical or nursing care.

- 2) A temporary or permanent shelter for persons experiencing temporary homelessness. For persons experiencing homelessness, there is no requirement that the persons live in a single housekeeping unit or that the shelter provide care exclusively to persons requiring medical, correctional, or other mandated supervision or a protective environment.
- 3) A domestic violence shelter, which is a public or private building or structure housing residents for the purpose of the rehabilitation or special care for victims of domestic violence or emotional or mental abuse.

Supportive Housing, Large

A facility designed for and occupied by eight or more residents living together.

Supportive Housing, Small

A facility designed for and occupied by no more than seven residents living together.

Suspension

For purposes of floodplain regulations, the removal of a participating community from the NFIP because the community has not enacted and/or enforced the proper floodplain management regulations required for participation in the NFIP.

Swimming Pool

A self-contained body of water at least eighteen inches deep and eight feet in diameter or width and used for recreational purposes. It may be above or below ground level and shall be considered an accessory structure/use.

Synagogue

See "Place of Worship."

Tattoo or Piercing Parlor

An establishment whose principal business activity is the practice of one or more of the following:

- 1) The placement of designs, letters, figures, symbols, or other marks upon or under the skin of any person, using ink or other substances that result in the permanent coloration of the skin;
- 2) Creation of an opening in the body of a person for the purpose of inserting jewelry or other decoration.

Tavern

See "Bar or Dance Club."

Thoroughfare Plan

"Transportation Plan."

Tobacco Sales

See "Liquor or Tobacco Sales."

Tract

See "Lot."

Tract, Parent

A unit, or contiguous units, of land under single ownership that is being proposed for subdivision.

Trade School

See "School, Trade or Business"

Trailer

See "Dwelling, Mobile Home" and "Dwelling, Manufactured Home."

Transportation Plan

The official thoroughfare plan for Bloomington, Indiana entitled "Transportation Plan" adopted as a part of the Comprehensive Plan, and on file in the Office of City Clerk, City Engineer, or Planning and Transportation Department, which are by this reference made a part of this code, showing location, alignment, functional classification, width of roadway, and minimum developed cross-sections of existing and proposed thoroughfares.

Transportation Terminal

Any premises for the transient housing or parking of motor driven trucks or buses and the loading and unloading of passengers or materials.

Tree plot

The area within the right-of-way typically located between the street and the sidewalk/pedestrian path that is used for the planting of street trees.

Tree Protection Barrier

Temporary fencing used to protect existing trees, including roots and crowns, from damage or loss during project construction. The tree protection barrier shall surround the tree dripline and delineate the area where land disturbing activity may not occur.

Tree Protection Zone (TPZ)

A zone of protected space surrounding a tree or group of trees extending from the topmost branch or leader downward to 36 inches below the surrounding ground surface level and includes the critical root zone.

Tree, Canopy

A deciduous tree that normally achieves an overall height at maturity of at least forty feet, and whose mature height and branch structure provide foliage primarily on the upper half of the tree. The purpose of a canopy tree is to provide shade to adjacent ground areas.

Tree, Heritage

A tree that is unique and important to the community because of its species, age, size, location, or historic significance.

Tree, Interior

A tree used for the interior of a site rather than in the "tree plot" and that is not restricted by its characteristics. These trees include canopy, ornamental and evergreen trees.

Tree, Ornamental

A small to medium sized tree cultivated for its aesthetic characteristics rather than for its use.

Tree, Street

Trees suitable for planting along public streets and highways, and in locations where low-maintenance, hardy specimens with high canopies and little detritus are required.

Trellis

A structure of light bars of wood or metal crossing each other at intervals, having latticed open space in between, typically used as a framework for climbing vegetation.

Unified Development Ordinance (UDO)

This entire document as approved and with any subsequent amendments. The Unified Development Ordinance includes both the zoning ordinance, authorized by the Indiana Code 36-7-4-600 Series and the subdivision control ordinance, authorized by the Indiana Code 36-7-4-700 Series.

University

See "School, College or University."

Urban Agriculture, Noncommercial

The cultivation of food and/or horticultural crops, composting, aquaponics, aquaculture and/or hydroponics.

Such use may include the production and sale of food products from food grown on the premises.

Noncommercial urban agriculture may be divided into separate plots for cultivation by one or more individuals or may be farmed collectively by members of the group and may include common areas maintained and used by group members. This definition includes gardens, container gardens, edible landscapes, residential greenhouses, herb gardens, rooftop gardens, berry patches, vegetable gardens and other similar activities. Urban agriculture uses shall not include the raising of animals, except as permitted elsewhere in the Bloomington Municipal Code.

Use

The purposes for which land, a building, or structure thereon is designed, arranged, or intended, or for which it is occupied, maintained, let, or leased.

Use, Abandonment of

The relinquishment of property or a cessation of the use of property for a continuous period of twelve months by the owner.

Use, Accessory

An activity that is conducted or located on the same zoning lot as the primary building or use served, except as may be specifically provided elsewhere in this UDO; is clearly and customarily incidental to, subordinate in purpose to, and serving the primary use; and is either in the same ownership as the primary use or is clearly operated and maintained solely for the comfort, convenience, necessity, or benefit of the occupants, employees, customers, or visitors of the primary use.

Use, Change In

Includes, for any portion of a building (excluding individual tenant space in a single building multi-tenant center), structure, or lot:

- 1) Any change from a residential use to a nonresidential use;
- 2) Any change from a nonresidential use to multifamily use;
- 3) Any change from one residential land use to another;
- 4) Any increase in the number of dwelling units;
- 5) Any establishment of a use on a previously unused site, or the inclusion of a new use in addition to an existing use;
- 6) Any use which requires a conditional use approval;
- 7) Any change from a single-tenant to a multi-tenant center or building;

- 8) Any use that differs from the previous use of a building or land, as determined by subheadings in Table 03-1: Allowed Use Table, or where the new use differs substantially in the amount of required parking, traffic generation, number or frequency of customers/users, hours of operation, or other similar aspects of the use; and
- 9) Any establishment of a new use after a previous use has been abandoned, as defined by this UDO.

Use, Conditional

See "Conditional use."

Use, Establishment of

The initiation of a new use on a property or the initiation of a use on a property where the previous use has been discontinued; or, reestablishment of a prior conforming use that has been discontinued for a period of twelve months or more.

Use, Individual Nonresidential

A use and building that is located either on an outlot or not part of a larger commercial building that contains more than one business.

Use, Lawful Nonconforming

Any use of land or structure that does not conform with one or more provisions of this UDO, but that lawfully existed upon the effective date of the provisions of this UDO with which the use does not conform.

Use, Permitted

A use that may be lawfully established in a particular zoning district provided it conforms to all applicable requirements, regulations and standards.

Use, Temporary

Any use that is established only for a fixed period of time, which must be discontinued upon the expiration of the time limit provided in this UDO, and that does not involve the construction or alteration of any permanent structure as distinguished from the same uses when permitted in full compliance with all applicable zoning, site plan, construction, and permit requirements. Temporary uses shall include uses conducted from tents, trailers, and other temporary structures not erected under the state and city permit processes for permanent buildings. The term "temporary use" shall not include events sponsored by the public on park, right-of-way, or other public lands.

Utility Substation and Transmission Facility

An assemblage of equipment for purposes other than energy generation or use, through which electric energy in bulk is passed for the purposes of switching or modifying its characteristics to meet the needs of the general public; provided that in residential districts an electric substation shall not include rotating equipment, storage of materials, trucks or repair facilities, housing of repair crews, or office or place of business.

Variance, Development Standards

A specific approval to deviate from the development standards (such as height, bulk, area) that this UDO otherwise prescribes, granted pursuant to Indiana Code 36-7-4-918.5.

Variance, Floodplain

For purposes of floodplain regulations, a grant of relief from the requirements of this ordinance consistent with the variance conditions herein.

Vehicle

See "Motor vehicle."

Vehicle Fleet Operations

A central facility for the dispatch, distribution, storage, staging, and loading of vehicles that are owned, leased, or operated for a common purpose, with or without associated offices. Typical uses include, but are not limited to, ambulance service, taxi dispatch, meals-on-wheels dispatch, staging areas for shared vehicle services, and other operations that require frequent arrival and departure of cars or vans such as courier, delivery, and express services, cleaning services, key and lock services, security services, and taxi services. This use does not include a "Transportation Terminal."

Vehicle Fleet Operations, Small

A facility or establishment designed to accommodate up to 25 vehicles.

Vehicle Fleet Operations, Large

A facility or establishment designed to accommodate more than 25 vehicles.

Vehicle Fuel Station

A facility limited to retail sales to the public of gasoline, biodiesel, electricity, ethanol fuel blends, hydrogen, natural gas or other fuels for motor vehicles, as well as motor oil, lubricants, travel aides, and minor automobile accessories. When a primary use of land, accessory use may include convenience food and beverage sales.

Vehicle Impound Storage

A lot or part of a lot used only for the temporary storage of damaged, abandoned or impounded motor vehicles, excluding salvage and sales. This use does not include "Salvage or Scrap Yard," except where separately permitted.

Vehicle Parking Garage

A structure or portion of a structure composed of one or more levels or floors used exclusively for the parking or storage of motor vehicles. A parking structure may be totally below grade (as in an underground parking garage) or either partially or totally above grade, with those levels being either open or enclosed. This use does not include a primary use surface parking lot.

Vehicle Repair, Major

An establishment primarily engaged in vehicle repair, rebuilding, reconditioning, or mechanical servicing of motor vehicle engines, transmissions, frames, including auto body repairs, framework, welding, and major painting. This use does not include "Vehicle Fuel Station or Vehicle Wash"

Vehicle Repair, Minor

An establishment primarily engaged in providing minor motor vehicle repair services such as lubrication, oil and tire changes, engine tune-ups, brake repair, tire replacement, interior and exterior cleaning and polishing, installation of after-market accessories such as tinting, auto alarms, spoilers, sunroofs, headlight covers, and similar items. This definition does not include engine degreasing or major repairs such as vehicle bodywork, painting, or repair of engines or transmissions or "Vehicle Fuel Station or Vehicle Wash"

Vehicle Sales or Rental

An establishment that specializes in the sale, lease, or rental, of light motor vehicles, including automobiles, vans, light trucks, light trailers, boats, ATVs, snowmobiles, and recreational vehicles. This definition does not include salvage operations, scrap operations, vehicle impound yards, or commercial parking lots available for short-term use.

Vehicle Wash

A facility for washing, cleaning, drying and waxing of passenger vehicles, recreational vehicles, or other light duty equipment. A car wash may be self-service or full service.

Veterinary Clinic

An establishment where animals or pets are given medical or surgical treatment and are cared for during the time of such treatment. This use does not include a "Kennel," and overnight boarding of animals shall only be permitted when incidental to such medical treatment and limited to short periods of time.

Violation

For purposes of floodplain regulations, the failure of a structure or other development to be fully compliant with the ordinance.

Vision Clearance Triangle

An area of unobstructed vision at street intersections between two and one-half and nine feet above the gutter line and within a triangular area at the street corner, which area is bounded by the street property lines of the corner lot. The vision clearance triangle leg length shall be as specified in the most current edition of the Policy on Geometric Design of Highways and Streets published by the American Association of State Highway Transportation Officials (AASHTO).

Walled and Roofed

For the purposes of floodplain regulations, a building that has two or more exterior rigid walls and a fully secured roof and is affixed to a permanent site.

Watercourse

For purposes of floodplain regulations, a lake, river, creek, stream, wash, channel or other topographic feature on or over which waters flow at least periodically. Watercourse includes specifically designated areas in which substantial flood damage may occur.

Wetland

Those areas inundated or saturated by surface or ground water at a frequency or duration sufficient to support, and under normal circumstances, do support, a prevalence of vegetation specifically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. For the purpose of this definition, a wetland must have one or more of the following attributes:

- 1) At least periodically, the land supports hydrophytes;
- 2) The substrate is predominately undrained hydric soil;
- 3) The substrate is nonsoil and is saturated with water or covered by shallow water at least some time during the year.

Wetland, Jurisdictional

Any wetland under the jurisdiction of the state or federal government.

Wind Energy System, Large

A facility or equipment that converts wind energy into electrical power for the primary purpose of sale, resale, or off-site use and that has an output rating greater than 100 KW.

Wind Energy System, Small

A facility or equipment that converts wind energy into electrical power primarily to support the principal use(s) on the same property, that is mounted to the ground or a rooftop, and that has a rated capacity of 100 KW or less.

Window Frame

The fixed frame of a window, consisting of two jambs, a head, and a sill.

Window Lintel

The window lintel is a horizontal structure member, such as a beam made of steel, stone or wood, over the window that carries the weight of the wall above.

Window Sill

The horizontal bottom member of a window frame. The sill can be made of brick, stone, wood, etc.

Window, Display

See "Display window."

Wooded Area

A contiguous, vegetated area featuring a dense, closed canopy of trees whose branches interlock to provide nearly continuous shade.

Workforce Housing

Residential housing units that serve individuals, households, or families with annual incomes less than 120 percent of the Area Median Income. These housing units would under Section 20.04.110(c)(2) (Eligibility) for Tier 1 affordable housing.

X Zone

For purposes of floodplain regulations, the area where the flood hazard is less than that in the SFHA. Shaded X zones shown on recent FIRMs (B zones on older FIRMs) designate areas subject to inundation by the flood with a 0.2 percent chance of being equaled or exceeded (the 500-year flood). Unshaded X zones (C zones on older FIRMs) designate areas where the annual exceedance probability of flooding is less than 0.2 percent.

Yard

A space on the same lot with a primary building that is open and unobstructed except as otherwise authorized by this UDO.

Yard, Front

The horizontal space between the nearest foundation of a building or structural appurtenance, or roof eave (whichever is closer) to the front lot line, extending to the side lines of the lot, and measured as the shortest distance from that foundation to the front lot line.

Yard, Rear

The horizontal space between the nearest foundation or structural appurtenance of a building to a rear lot line, extending to the side lines of the lot, and measured as the shortest distance from the foundation to the rear lot line.

Yard, Side

The horizontal space between the nearest foundation or structural appurtenance of a building to the side lot line.

Zone

For purposes of floodplain regulations, a geographical area shown on a FIRM that reflects the severity or type of flooding in the area.

Zone A

(see definition for A zone)

Zone B, C, and X

For purposes of floodplain regulations, areas identified in the community as areas of moderate or minimal hazard from the principal source of flood in the area. However, buildings in these zones could be flooded by severe, concentrated rainfall coupled with inadequate local drainage systems. Flood insurance is available in participating communities but is not required by regulation in these zones. (Zone X is used on new and revised maps in place of Zones B and C.)

Zoning District, Base

A zoning district as shown on the Official Zoning Map that is used as a starting point for the regulations of a Planned Unit Development district ordinance.