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Planning Commission Staff Report

Meeting Date: August 8, 2022

JmK Mike Knight, Assistant City Planner From:

Location: North of Wild Horse Creek Road and across from Wildhorse Parkway Drive

Petition: Boone's Ridge (SDP): A Site Development Plan, Landscape Plan, Tree Preservation

> Plan and Tree Stand Delineation for a 26.8 acre tract of land zoned "E-1/2AC" Estate District with a Wild Horse Creek Road Overlay District designation located on the north side of Wild Horse Creek Road and across from Wildhorse Parkway

Drive (18V520115, 18V520126, 18V520160, 18V520027, 18V510381).

SUMMARY

McBride Byrne, LLC has submitted a Site Development Plan, Landscape Plan, Tree Preservation Plan and Tree Stand Delineation for a 26.8 acre tract of land to construct 36 detached single family homes known as Boone's Ridge. There is one proposed entrance off of Wild Horse Creek Road with an internal connection to a residential development known as Bur Oaks to the west and an internal connection for future development to the east.

Wild Horse Creek Road (WHCR) is classified as a major arterial roadway which is owned and operated by MoDOT. The property is zoned "E-1/2AC" Estate District with a Wild Horse Creek Road Overlay District designation. The intent of the overlay district is to protect and maintain the scenic character of the area and the adjacent neighborhoods ensuring compatibility through site design, site plan review and to not adversely affect the character of the neighborhood or the general welfare of the City.



Figure 1: Aerial of the Subject Site

SITE HISTORY

On March 28, 2022 the City of Chesterfield City Council approved the current zoning designation, "E-1/2AC" Estate District with a Wild Horse Creek Road Overlay District designation, by a vote of (7-0) creating Ordinance 3187. This is the current governing ordinance for the subject site. The previous zoning designation consisted of multiple parcels under two different zoning districts.

Roughly 8 acres of property were zoned E-1 AC Estate District and the remaining was zoned NU – Non-Urban. Below is an image depicting the area by the previous zoning designation followed by a history of the subject site by said zoning district.



Figure 2: Current Zoning Designation of Subject Site

E-1AC Estate District

This property was zoned NU- Non Urban until 2007. Ordinance 2378 was approved in July of 2007 which changed the boundaries of the NU zoning district to a PC Planned Commercial District with the WHCR Overlay district. The goal of the development team at that time was to construct three 12,000 square foot office buildings within the roughly 8 acres of land.

The property was never developed under the PC designation. In 2011, the property was re-zoned from the PC district with the WHCR Overlay district to a E-1AC Estate district. The development team at that time intended to construct a 2-3 story senior living facility. A Conditional Use Permit (CUP) was approved on the same day as the E-1AC zoning permitting a 120-unit senior living facility. A Site Development Plan was approved, Improvement Plans were approved, and grading work began, but the project was never completed. The property is currently vacant/undeveloped.

NU Non-Urban

The property largely sits undeveloped with several homes over the 18+ acres. Staff is unaware of any applications to re-develop the existing properties.

It is important to note that the City of Chesterfield Comprehensive Land Use Plan has had varied land use designations for this property over the years. In 1990, the land use designation was Office Campus, in 2009, the designation was both Neighborhood Office and Residential Single Family, and the current designation is Suburban Neighborhood. A description of the Suburban Neighborhood land use designation may be found later in this report.

COMPREHENSIVE PLAN

The subject site is in Ward 4 of the City of Chesterfield. The City of Chesterfield Comprehensive Plan contains the City of Chesterfield Land Use Plan. The Land Use Plan depicts the development patterns envisioned by and for the community. The land use designations for the subject site including all the surrounding parcels to the south, east and west (bluff separates the Chesterfield Valley to the north) are either Suburban Neighborhood or Conservation. Below (Figure 3) is an image of the Land Use Plan.



Figure 3: Land Use Designation

The conservation land use designation depicts areas of platted common ground. The area to the north that depicts the industrial land use designation is separated by a roughly 20 foot bluff and is located within the Chesterfield Valley. The Suburban Neighborhood Land Use designation (entire subject site) is described as land typically developed as a neighborhood for single-family detached homes with uniform housing densities. The proposed development is to construct 36 single family detached homes.

There are several development policies associated with the Suburban Neighborhood land use designation and referenced below.

- Encourage preservation of existing residential neighborhood's identity.
- New residential development should reinforce existing residential development patterns by continuing to reinforce high quality site and subdivision design, layout, and planning practices.

 Uncover the anticipated expense (cost of municipal infrastructure) for each new or re-developed residential development.

The proposed development is built off an extension of Silver Buck Lane. This roadway is a public roadway that runs through the entire residential development known as Bur Oaks directly to the west. The Bur Oaks subdivision is the same zoning designation as the subject site. The development is proposing public roadways. If the development is approved and constructed, the roadway and adjoining sidewalks would be additional municipal infrastructure maintenance cost in an amount typical of a single-family residential development.

SURROUNDING USES AND ZONING

The area for the subject site contains 26.8 acres. There is one major roadway to the south of the subject property, known as Wild Horse Creek Road "WHCR". This is a major arterial roadway that is owned and operated by the Missouri Department of Transportation also known as MoDOT.

The area to the north is separated by a 20-foot bluff. Directly to the north is a golf course followed by the Spirit of St. Louis Airport. The areas surrounding the site east, south, and west consist mostly of single-family homes, except for two properties to the south (G & H in Figure 4) containing a preschool/early education center and a security/locksmith. The location of these properties are shown in Figure 4 and a description including the current land use, land use plan designation and zoning district are in Figure 5.



Figure 4: Surrounding Uses and Zoning Location

Direction	Label	Zoning District	Current Land Use	Land Use Plan	
North	Α	M3 - Planned Industrial	Golf Course	Industrial	
East	В	NU - Non-Urban		Suburban Neighborhood	
South	С	PUD - Planned Unit Development	Single Family		
South	D,F, I	NU - Non-Urban	Single Family		
South	E	R1- Residence			
South	G	R5 - Residence District	Preschool & Early Education Center	- Neighborhood	
South	Н	NU - Non-Urban	Security and Locksmith		
West	J	E 1/2 AC Estate District	Single Family (Bur Oaks)		

Figure 5: Surrounding Uses and Zoning Description

WH Wild Horse Creek Road Overlay District

All properties located within the Wild Horse Study Subarea (also known as "the Bow Tie") are required to zone to the WH Overlay District prior to any development or redevelopment action. Properties located within the Wild Horse Study Subarea may only seek a Zoning Map amendment to one of the estate district categories. As the WH Overlay District is required for all properties in this subarea, properties in the subarea do not qualify for a PUD Planned Unit Development zoning. Below is an image (Figure 6) of the Wild Horse Study Subarea. The current governing ordinance enacted this Overlay District onto the subject site.



Figure 6: Location of Wild Horse Study Subarea "Bow Tie"

As previously stated, the intent of the WH Wild Horse Creek Road Overlay District is to protect and maintain the scenic character of the Wild Horse Creek Road Subarea and the adjacent neighborhoods by ensuring compatibility through site design, site plan review, and the regulation of activity upon the designated sites so that the uses of the property will not adversely affect the character of the neighborhood or the general welfare of the City.

In addition to the development standards and district requirements required for the site in accordance with the underlying estate district zoning, the following performance standards are applicable to the WH Overlay District. Below are applicable minimum standards of design outlined in the City's Unified Development Code, followed by how the applicant's request relates to the minimum standards in *blue*.

A. Uses. Permitted and conditional uses for the WH Overlay District.

The applicant is requesting to construct 36 single family homes which are permitted under the current zoning designation.

B. Community amenities, such as a community center, nature preserve areas, park, lake, recreation areas, and other similar uses and amenities, are required for all residential development and shall be shown on any preliminary plan and/or site development plan.

The applicant is proposing a development that contains 37% common ground and 40% tree preservation. The applicant is proposing sidewalks along the internal roadway and sidewalks

along Wild Horse Creek Road. The applicant is also proposing a pickle ball court located within common ground.

C. Specific design requirements are set forth in Table 1:

Table 1: Specific Design Requirements					
Building design	Rear and side facades shall be designed with similar detailing and be compatible with the principal facades of the building				
Internal roadway system	As development occurs in the area, an internal roadway system, complete with buffers, landscaping, pedestrian circulation, and cross access shall be required as directed by the City of Chesterfield				
Pedestrian circulation	To achieve pedestrian circulation, all development shall include sidewalks and/or trails				
Preservation of slopes and natural features	Development on slopes in excess of 20% shall be minimized to the greatest extent practicable except for necessary infrastructure and public improvements				
Protection of historic features	Future development shall minimize any impact to historic and heritage sites. Historic buildings and archeological sites shall be of utmost importance				

The proposed Site Development Plan meets all of the Specific Design Requirements established in Table 1.

STAFF ANALYSIS

Zoning

As previously stated, the site specific governing ordinance for the subject site is Ordinance 3187. The proposed plans comply with the development criteria contained within the site-specific ordinance by providing thirty-six (36) single family detached homes. The proposed lots vary between approximately 15,000 square feet and 25,164 square feet in size. This complies with the minimum 15,000 square foot lot size requirement which corresponds to the underlying "E-1/2AC" Estate District within the "WH" Overlay.

Access and Circulation

The development has one entrance/exit from Wild Horse Creek Road. The development connects to the existing single family home development to the west and connects internally to the east for potential future development. The proposed development will provide an east bound left turn lane into the development. Concerns were raised through the zoning process in regards to the level of services of the

intersection at Wild Horse Creek Road. The development team has provided a traffic assessment by a transportation engineer at the company CBB. The entire assessment, including the summary regarding traffic impacts, is included within the Planning Commission Packet. One of the summarized conclusion statements from the transportation engineer was that there are no further improvements to improve conditions and a traffic signal is not warranted nor should be considered due to the short spacing between the adjacent signalized intersection.

Tree Preservation

A Tree Preservation Plan is required and has been provided for the proposed development. The plan exceeds the requirement of 35% tree preservation by depicting a tree canopy area to be preserved at 40%. It should be noted that although the plan is depicting 40%, the actual preserved canopy will be higher as there are trees being saved on future developed lots that are not counted within the canopy to be preserved figures.

Landscape Installation

The site specific governing ordinance requires a 50' landscape buffer off of Wild Horse Creek Road with a 30' landscape buffer around the remaining perimeter. There is an exception written into the ordinance that exempted two lots from the landscape buffer requirement. Through the Site Development Plan review process, some of the lot locations were reconfigured in which the perimeter buffer is maintained throughout the entire development.

It should be noted that the installation of sidewalk along Wild Horse Creek Road will require the removal of trees. The majority of the trees to be removed are of a low condition rating. The 50' landscape buffer will provide additional trees in the same general areas that were removed for the sidewalk installation.

Amenity

A pickle ball court is required by ordinance and included on the Site Development Plan. This court will be surrounded by a four foot high vinyl coated chain link fence. Additional plantings have also been placed to the south of the court to screen from Wild Horse Creek Road in addition to the aforementioned proposed 50 foot landscape buffer.

CBU

All residential developments are required to utilize cluster box units (CBUs) vs individual mail boxes for mail delivery by the United States Postal Service. City staff has an internal policy over CBU quantity and placement within a residential development. The City policy closely mimics the National Delivery Planning Standards Guide of the United State Postal Service. Although the City policy and USPS guide would typically require more than one CBU location, the United States Postal Service denied an attempt by the development team to secure more than one location. Residential mail delivery locations are under the jurisdictional authority of the United States Postal Service.

STAFF RECCOMENDATION

City Staff has completed review of the proposed Site Development Plan. All appropriate outside jurisdictional agencies have reviewed the plan and provided input/approval. The Site Development Plan meets all the requirements of the site specific governing ordinance and the City's Unified Development Code. Staff recommends approval of the proposed Site Development Plan.

MOTION

The following options are provided to the Planning Commission for consideration relative to the application:

- 1.) "I move to approve (or deny) the Site Development Plan, Landscape Plan, Tree Preservation Plan and Tree Stand Delineation for the Boone's Ridge subdivision."
- 2.) "I move to approve the Site Development Plan, Landscape Plan, Tree Preservation Plan and Tree Stand Delineation for the Boone's Ridge subdivision with the following conditions..." (Conditions may be added, eliminated or modified)

Attachments: Site Development Plan

Landscape Plan

Tree Preservation Plan Tree Stand Delineation Traffic Assessment 2. THIS SITE IS IN THE FOLIANG UTILITY SERVICE AREAS:

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LOCATOR NUMBERS: 17655,17635, 17627, 17603 & 17571 WLD HORSE ORDEK RD E 1/2 ACRE W/ "W.H." WILD HORSE CREEK OVERLAY EXISTING ZONING

NUMBER OF UNITS ALLOWED PER ORDINANCE 3187 IS 36

FRONT YARD SETBACK 25" SIDE YARD SETBACK 10"

MN. LOTS SIZE: 15,000 S.F. AVERAGE LOT SIZE: 16,088 S.F. LARGEST LOT SIZE: 25,164 S.F.

NUMBER OF PARKING SPACES REQUIREDS TWO PER UNIT - 72 SPACES

PROPOSED STREETS SHALL BE PUBLIC 40°M. R.O.W. WITH 26°M. PVMT. AND BUILT TO THE CITY OF CHESTERFIELD STANDARDS.

COMMON GROUND (OPEN SPACE) - 10.0 ACRES (37% OF GROSS AREA)

TREE PRESERVATION INFORMATION: SEE TREE STAND DELINEATION

LIGHT STANDARD DETAIL(INTERNAL TO SUBDIVISION)



LOT/UNIT TOTALS: "A" 110'W. ~ 18 LOTS "B" 90'W. ~ 18 LOTS TOTAL LOTS ~ 36 LOTS





Boone's Ridge

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SITE DEVELOPMENT PLAN



GEOTECHNICAL STATEMENT



SHEET INDEX

COVER SHEET DEMOLITION PLAN

SITE / GRADING PLAN SITE PLAN

ORDINANCE SHEET NATURAL RESOURCES MAP

CROSS SECTIONS SITE DISTANCE

LANDSCAPE PLAN

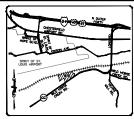
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LOCATION MAP

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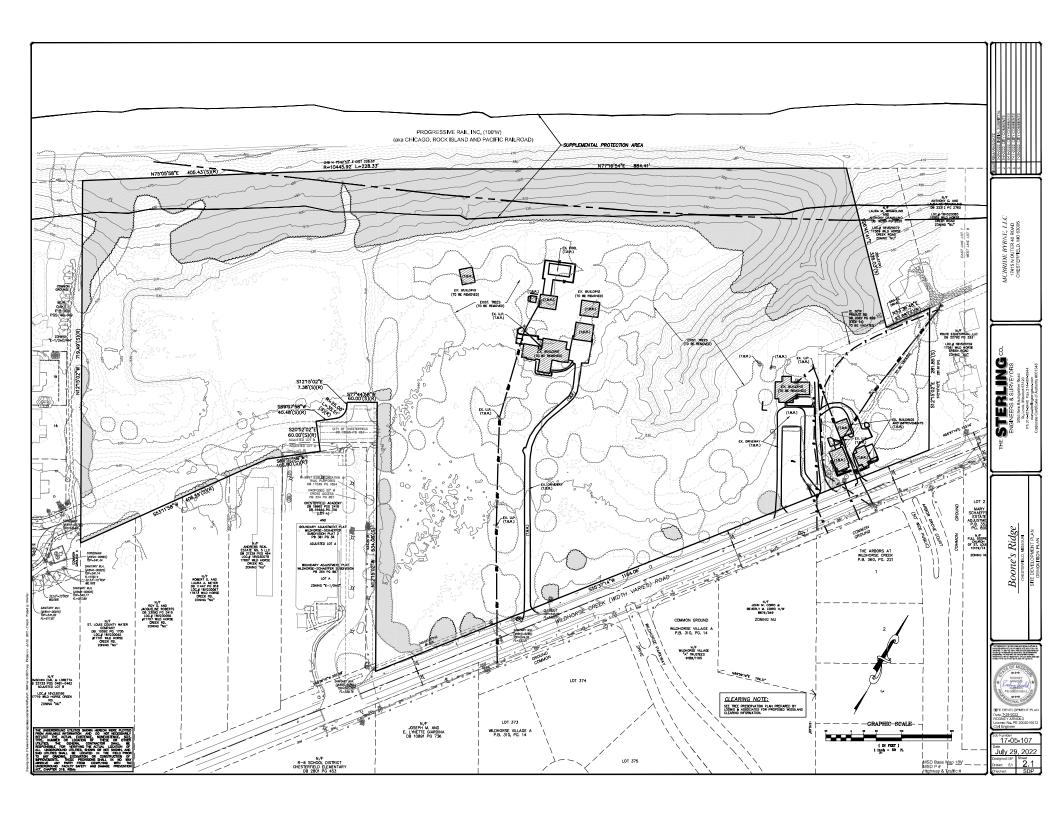


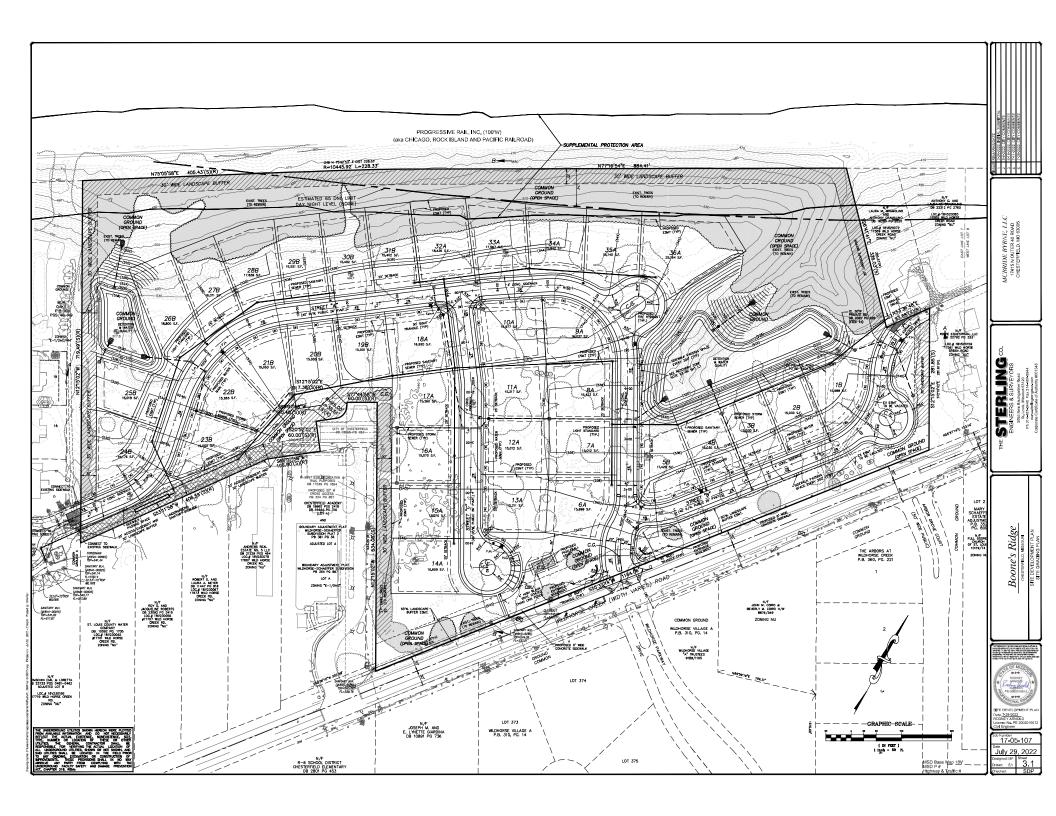
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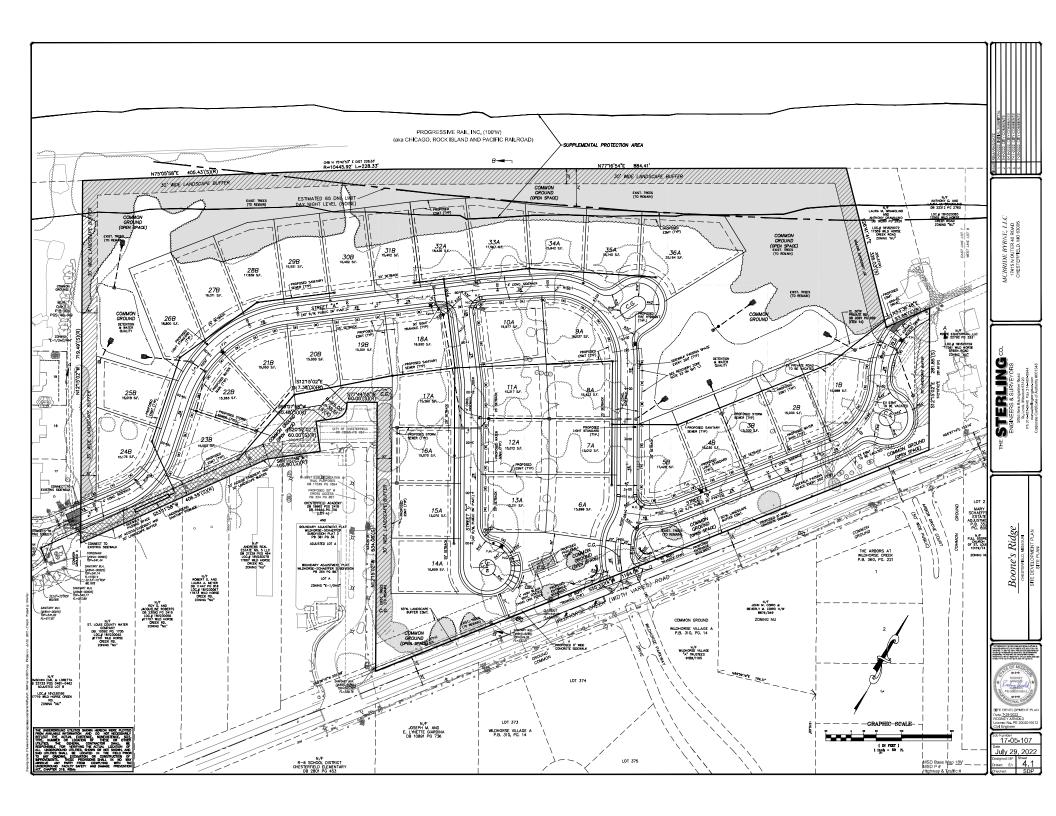
Boone's Ridge

SITE DEVELOPMENT PL

17-05-107 July 29, 2022







I. SPECIFIC CRITERIA

C. SETBACKS

A. PERMITTED USES

B. DENSITY REQUIREMENTS

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M. POWER OF REVIEW

- 5. The lowest opening of all structures shall be set at least two [2] feet higher than the one hundred (100) year high water elevation in detention/relention facilities. All structures shall be set at least 30 feet horizontally from the limits of the one hundred (100) year high water.

Sanitary sewers shall be as approved by the City of Chesterfield and the Metropolitan St. Louis Sewer District.

E. PARKING AND LOADING REQUIREMENTS

- No construction related parking shall be permitted within right of way or on any existing roadways. All construction related parking shall be confined to the development. All provisions of the City of Chesterfield City Code shall apply to this development except as specifically modified herein.
 - Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked on to the pavement causing hazardous roadway and driving conditions.
 - Parking and loading requirements for this development will be as required in the City of Chesterfield Code.

F. LANDSCAPE AND TREE REQUIREMENTS.

- The development shall adhere to the Landscape and Tree Preservation Requirements of the City of Chesterfield Code.
- 2. Landscape Buffer requirements:
 - a. A thirty (30) foot Landscape Buffer shall be required along the perimeter of the district, except for the perimeter to the east of Lots 1B and 2B and the southern border as identified on the Preliminary Development Plan attached hereto and marked as Attachment B. Affry (50) foot landscape buffer shall be required along the southern border adjacent to Wild Horse Creek Road after right-owny dedication.
- b. The required Landscape Buffer shall be outside of any developed lot and shall be dedicated as Common Open Space or Common Ground as identified on the Preliminary Development Plan.
- A minimum of thirty-five percent (35.0%) tree preservation shall be required for this district.

O SIGN PROHIPPMENTS

- Signs shall be permitted in accordance with the regulations of the City of Chesterfield Code.
- Ornamental Entrance Monument construction, if proposed, shall be reviewed by the City of Chesterfield and the Missouri Department of Transpertation for sight distance considerations prior to installation or construction.

H. LIGHT REQUIREMENTS Provide a lighting plan and cut sheet in accordance with the City of Chesterfield Code.

Any request to install a gate at the entrance to this development must be approved by the City of Chesterfield and the agency in control of the right of way off of which the entrance is constructed. No gate installation will be permitted on public right of way.

I. ARCHITECTURAL

J. ACCESS/ACCESS MANAGEMENT

If a gate is installed on a street in this development, the streets within the development, or that portion of the development that is gated, shall be private and remain private forever.

The development shall adhere to the Architectural Review Standards and the "WH" Overlay District of the City of Chesterfield Code.

Access to the development shall be shown on the Preliminary Development Plan attached herete and marked as Attachment B, and adequate sight distance shall be provided as directed by the Missouri Department of Transportation and City of Chesterfield as applicable.

2. If adequate sight distance cannot be provided at the access location[s], acquisition of right-of-way, reconstruction of pavement and other off-site improvements may be required to provide the required sight distance as required by the City of Chesterfield and the agency in control of the right of way off which the access is proposed.

No lot of this development shall be allowed direct access to Wild Horse Creek Road.

7. Provide a 30' wide (minimum) access easement along the southern property line, north of 17701, 17707, 17673, and 1766' Wild Horse Creek Road as shown on the Preliminary Development Plan that would allow those properties to access an internal drive in the future, if processor.

Provide approval and/or easements necessary to ensure access is retained for properties that currently have driveways on the subject tract but are not included as part of this development. Existing access easement or driveway agreements must be vacated.

9. The future extension of Street "B" is required to meet all city code

K. PUBLIC/PRIVATE ROAD IMPROVEMENTS, INCLUDING PEDESTRIAN CIRCULATION

- 3. Provide street connections to the adjoining properties as shown on the

- Registration, Missouri Board for Architects, Professional Engineers and Land Surveyors requirements Provide comments/approvals from the appropriate Fire District, Monarch Levee District, Spirit of St. Louis Airport, the Missouri Department of Transportation, and the Metropolitan St. Louis Sewer District (MSD).
- . Compliance with the current Metropolitan Sewer District Site Guidance as adopted by the City of Chesterfield.

III. TRUST FUND CONTRIBUTION

A. The developer shall contribute a Traffic Generation Assessment (TGA) to the Eatherton – Kehrs Mill Road Trust Fund (No. 552). This contribution shall not exceed an amount established by multiplying the required parking spaces by the following rate schedule:

Type of Development Single Family Dwelling Required Contribution \$1,271.72/Parking Space

(Parking Space as required by the site-specific ordinance)

If types of development proposed differ from those listed, rates shall be provided by the St. Louis County Department of Transportation.

If a portion of the improvements required herein are needed to provide for the safety of the traveling public, their completion as a part of this development is mandatory. Allowable credits for required roadway improvements will be awarded as directed by the St. Louis County Department of Transportation and the City of Chesterfield. Sidewalk construction and utility relocation, among other items, are not considered allowable credits.

- As this development is located within a trust fund area established by St. Louis County, any portion of the traffic generation assessment contribution which remains following completion of road inprovements required by the development shall be retained in the appropriate trust fund.
- Truffie generation measurement contributions shall be deposited with \$8. Louids Courtly Department of Transportation. The deposit and hall be mode prior to the instance of a Special labe Permit (SLUP) by \$8. Louids Courtly Department of Transportation or prior to instance of challing permits in the case where no Special Use Permit is required. If development plassing is anticipated, the development shall provide the traffic generation palsas (see the proposal provider the proposal provider to Transmurr, St. Louids County).

Preliminary Development Plan and as directed by the City of Chesterfield. Stub street signage, in conformance with Section 405.04.090 of City Code of the City of Chesterfield, shall be posted within 30 days of the street pavement being placed.

4. All roadway and related improvements in each plat or phase of the development shall be constructed prior to issuance of building permits exceeding 60% for that plat or phase. Delays due to utility relocation and/or adjustment, for which the developer is responsible monetarily, shall not constitute a cause to issue permits in excess of 60%.

5. Provide a 5-foot wide sidewalk, conforming to ADA standards, along Wild Honse Creek Road as approved by MoDOT and the City of Chesterfield. The sidewalk shall provide for future connectivity to adjacent developments and/or roadway projects. The sidewalk should be located within MoDOT right-lew-way, if permitted by MoDOT, or on private property within a 6-foot-wide sidewalk, maintenance and utility casement dedicated for public uses.

6. Provide ADA compliant sidewalk along both sides of all internal

7. Construct a temporary turn-around, as shown on the Preliminary Development Plan, for the eastern terminus of Street 'FF. Provide a Special Cash Escrue, as necessary, for future removal of the temporary turn-around and all work necessary to extend Street 'F' and the associated sidewalk to the eastern property line. A permanent culdesac or cye-brow type turn around may also be considered in lieu of a temporary turn-around.

Obtain approvals from the City of Chesterfield and the Missouri Department of Transportation and other entities as necessary for locations of proposed curb cuts and access points, areas of new dedication, and roadway improvements.

Additional right-of-way and road improvements shall be provided, as required by the Missouri Department of Transportation and the City of Chesterfield.

1. A traffic study may be required as directed by the City of Chesterfield and/or MaDOT. The scope of the study shall include internal and external effectation and may be limited to site generic impacts, such extended in the control of the control of the control of the sight distance, traffic signal modifications or other improvements required, as long as the density of the proposed development falls within the parameters of the City's traffic model. Should the density be other than the density assumed in the model, regional issues shall be

V. ENFORCEMENT

The development shall adhere to the Power of Review Requirements of the City of Chesterfield Code.

- The site shall provide for the positive drainage of storm water and it shall be discharged at an adequate natural discharge point or an adequate piped system. The adequacy and condition of the existing downstream system(s) shall be verified and upgraded as necessary.
- 2. Detention/retending names or ventured and tuggended as necessary.
 2. Detention/retending and channel protection measures are to be provided in each waterabed as required by the City of Chesterfield and the Metropolland ISL Louis Swere District. The storm water management facilities shall be operational prior to issuance of building plant, waterabed or phase of residential developments. The location and types of sform water management facilities shall be identified on all Site Development Plant.
- Emergency overflow drainage ways to accommodate runoff from the 100-year storm event shall be provided for all storm sewers, as directed by the City of Chesterfield.
- Offsite sterm water shall be picked up and piped to an adequate natural discharge point. Such bypass systems must be adequately designed.
- Locations of site features such as lakes and detention ponds must be approved by the City of Chesterfield and the Metropolitan Saint Louis Sewer District.

The receiving sanitary sewer system(s) shall be evaluated to ensure adequate capacity and to ensure the project has no negative impacts to the existing system(s).

The uses allowed in this "E-1/2 AC" Estate District with a Wild Horse Creek Road "WH" Overlay District shall be:

The total number of single family residential units shall not exceed thirty-six (36) units.

No building or structure, other than: a freestanding project identification/ornamental entrance monument sign, light standards, retaining walls or flag poles shall be located within the above listed setbacks.

All developed lots must be setback at least fifty (50) fret from the Wild Horse Creek Road right-of-way.

Minimum lot size for this development shall be 15,000 square feet.

A minimum of thirty percent (30.0%) Common Open Space shall be required for this district.

2. Maximum height of all structures shall be fifty (50) feet.

a. Twenty-five (25) foot minimum from the internal ROW. b. Ten (10) foot minimum side yard setback for all lots. Twenty (20) foot minimum setback between structures shall be maintained for all lots.

a. Dwellings, Single Family Detached.

Structure setbacks shall be as follows:

3. Lot Setbacks shall be as follows:

D. DEVELOPMENT STANDARDS

P. GEOTECHNICAL REPORT

1. Price to Sike Development Eme approach, the developer shall provide a control skid source price of by a register of practicated new process of the price of the state of Missouri, as directed by the City of Chesterfield. The report shall werely be suitability of gradies of the control of the control of the control of the control of the the existence of any potential skidolo; posta, dams, septif. Edds, etc., and recommendations for treatment. A statement of compliance, signed and enaded by the geotechnical engineer preparing the report, or on the Chester of the Chester of the Chester of the control of the Plants.

Q. MISCELLANEOUS

- Existing overhead electric lines and poles serving these properties shall be removed and all new utilities shall be installed underground
- 2. Prior to record plat approval, the developer shall cause, at his expense and prior to the recording of any plat, the recestablishment, restoration or appropriate witnessing of all Corners of the United States Public Land Survey located within, or which define or lie upon, the outboundaries of the subject truct in accordance with the Missouri Minimum Standards relating to the preservation and maintenance of the United States Public Land Survey Corners, as accessary.
- 3. The retaining walls, guardrail, and fence along the temporary turn-around shall be private and remain private forever and shall be located such that it is not necessary to support any public improvements.
- 4. Prior to final release of subdivision construction deposits, the developer shall provide certification by a registered land surveyor that all monumentation depicted on the record plat has been installed and United States Public Land Survey Corners have not been disturbed during construction activities or but they have been restablished and the appropriate documents filed with the Missouri Department of Natural Resources Land Survey Program, as necessity.
- Community amenities, including but not limited to a pickle ball court shall be provided for this development as shown on the Preliminary Development Plan, attached hereto and marked as Attachment B.

A. SITE DEVELOPMENT PLAN SUBMITTAL REQUIREMENTS

The Site Development Plan shall include all items as required by City Code and the following items:

- 1. Provide the DNL line on the Site Development Plan
- 2. Provide mail delivery locations. 3. Density calculations.
- Parking calculations. Including calculation for all off street parking spaces, required and proposed, and the number, size and location for ADA designed.
- 5. Provide open space percentage for overall development. 6. A note indicating all utilities will be installed underground.
- 7. A note stating all above ground utility facilities larger than 2 feet in height or covering in excess of 4 square feet in size shall be screened from public view. If screening is completed by landscape material, a landscape plan identifying the size location and species shall be submitted and approved by the city prior to installation of any facility.
- 8. Specific structure and parking setbacks along all roadways and
- 9. Floodplain boundaries.
- 10. Depict existing and proposed improvements within 150 feet of the site as directed. Improvements include, but are not limited to, roadways, driveway and walkways adjacent to and across the street from the formations, and other karst features that are to remain or be removed.
- Indicate the location of the proposed storm sewers, detention basins, sanitary sewers and connection(s) to the existing systems.
- Address trees and landscaping in accordance with the City of Chesterfield Unified Development Code.
- Comply with all preliminary plat requirements of the City of Chesterfield Subdivision Regulations per the City of Chesterfield Unified Development Code.
- Signed and sealed in conformance with the State of Missouri Department of Economic Development. Division of Professional

- 3. The amount of these required contributions, if not submitted by January 1, 2022 shall be adjusted on that date and on the first day of January in each year succeeding year threafter in accordance with the construction cost index as determined by the St. Louis County Department of Transportation.
- Department of Transportation.

 Prior to Special Use Permit issuance by the St. Louis County Department of Transportation, a special cash earrow or special eacrow supported an Irrevocable Letter of Credit, must be established with the St. Louis County Department of Transportation to guarantee completion of the required roadway improvements.
- C. Provide adequate temporary off-street parking for construction employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mad from construction and employee vehicles is tracked onto pavement causing hazardous roadway and driving conditions.

IV PECOPDING

Within sixy (60) days of approval of any development plan by the City of Chesterfield, the approved Plan will be recorded with the St. Louis County Recorder of Deeds. Failure to do so will result in the expiration of approval of said plan and require re-approval of a plan by the Planning Commission.

L. TRAFFIC STUDY

- A. The City of Chesterfield, Missouri will enforce the conditions of this ordinance in accordance with the Plan approved by the City of Chesterfield and the terms of this Attachment A.
- B. Failure to comply with any or all the conditions of this ordinance will be adequate cause for revocation of approvals/permits by reviewing Departments and Commissions.
- c. Non-compliance with the specific requirements and conditions set forth in this Ordinance and its attached conditions or other Ordinances of the City of Chesterfield shall constitute an ordinance violation, subject, but not limited to, the penalty provisions as set forth in the City of Chesterfield Code.
- D. Waiver of Notice of Violation per the City of Chesterfield Code

E. This document shall be read as a whole and any inconsistency to be integrated to carry out the overall intent of this Attachment A.

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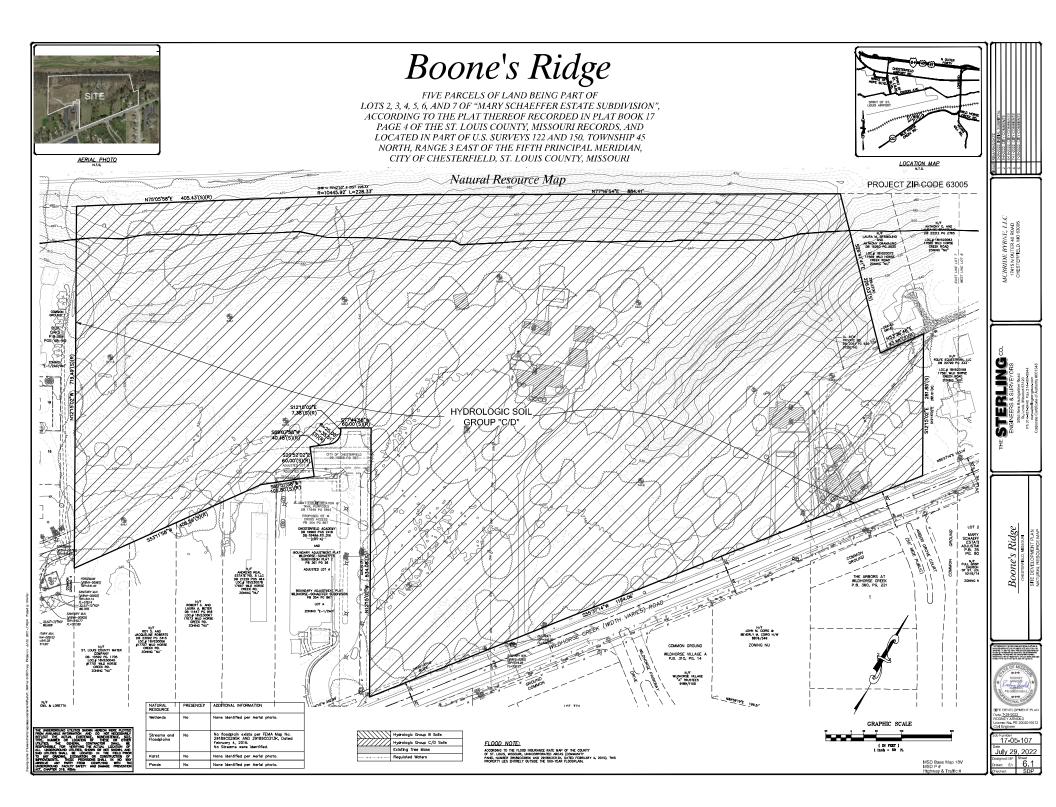
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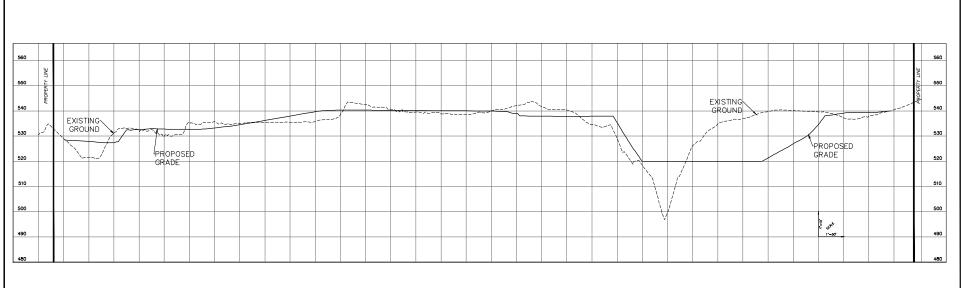
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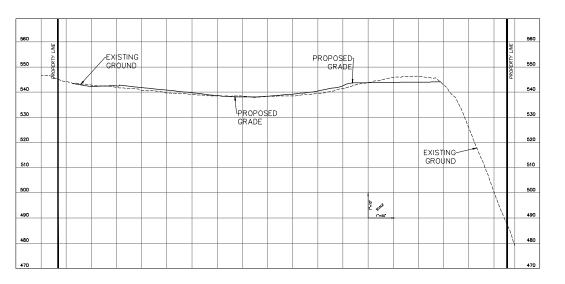
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SECTION A-A



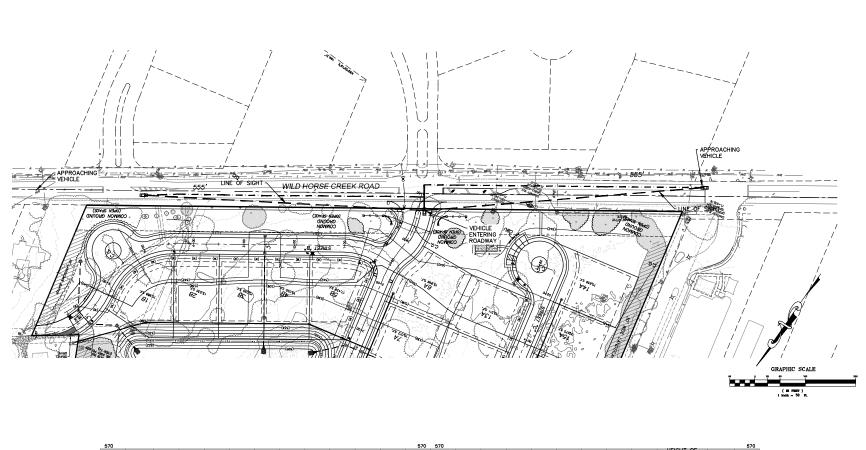
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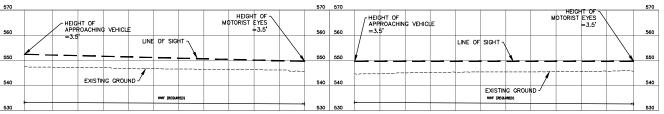
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Boone's Ridge







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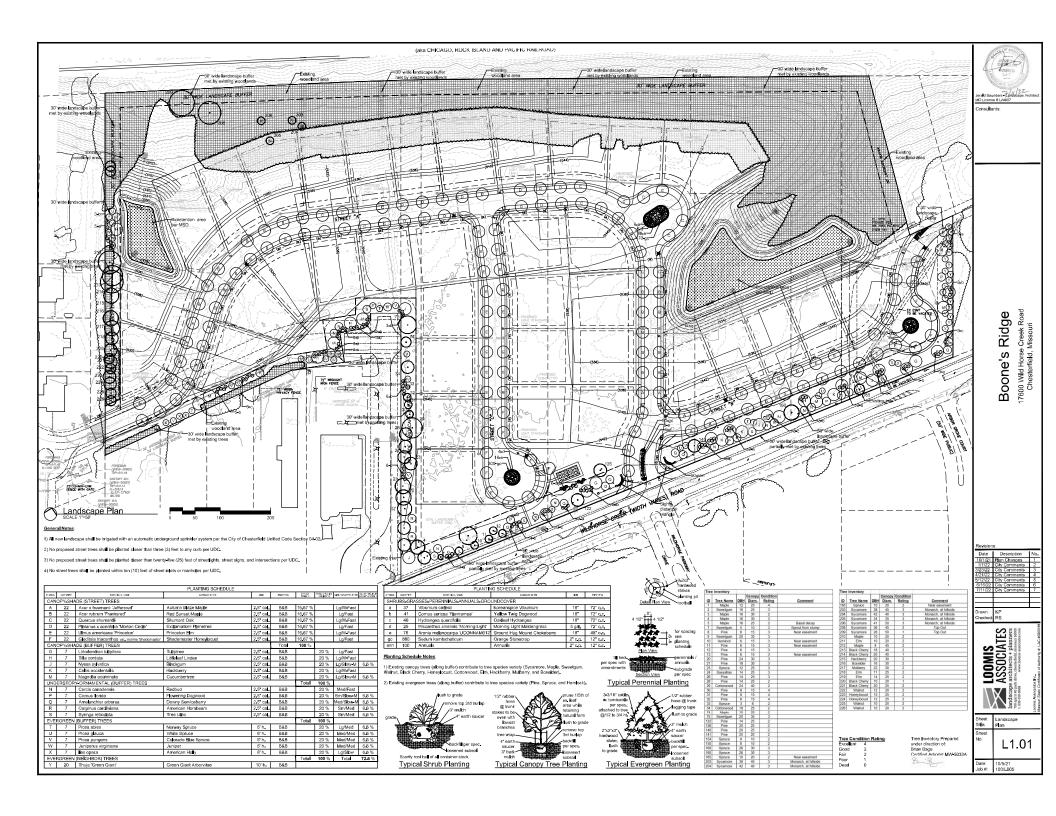
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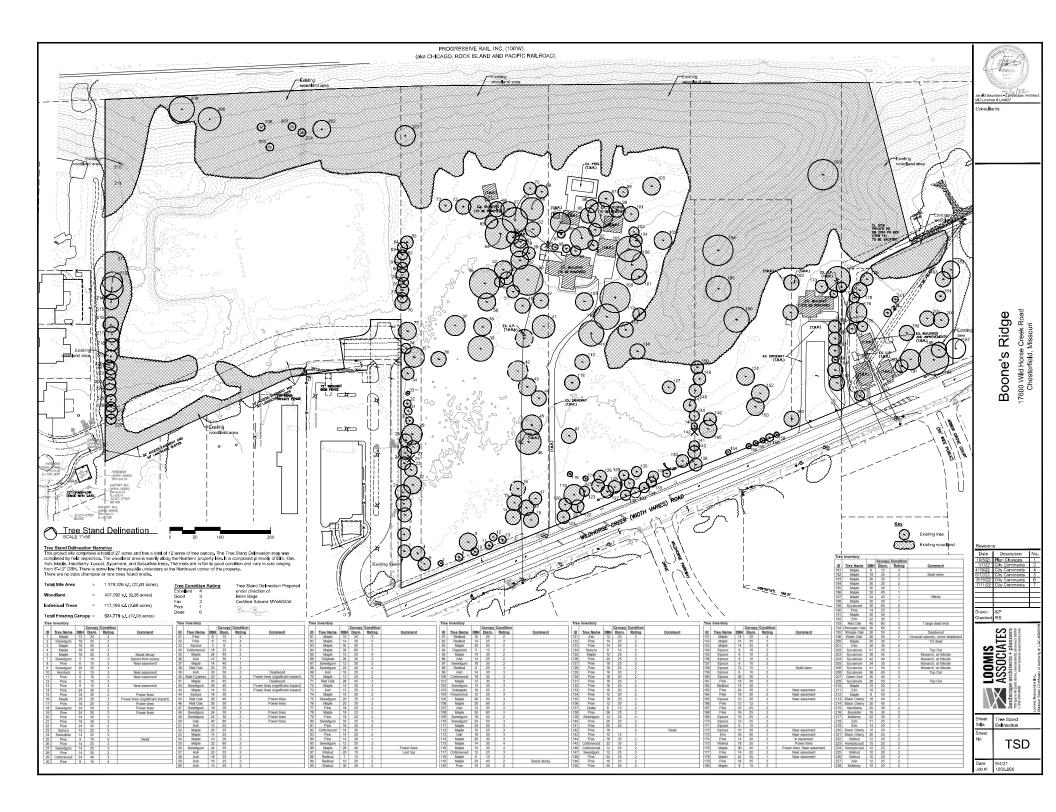
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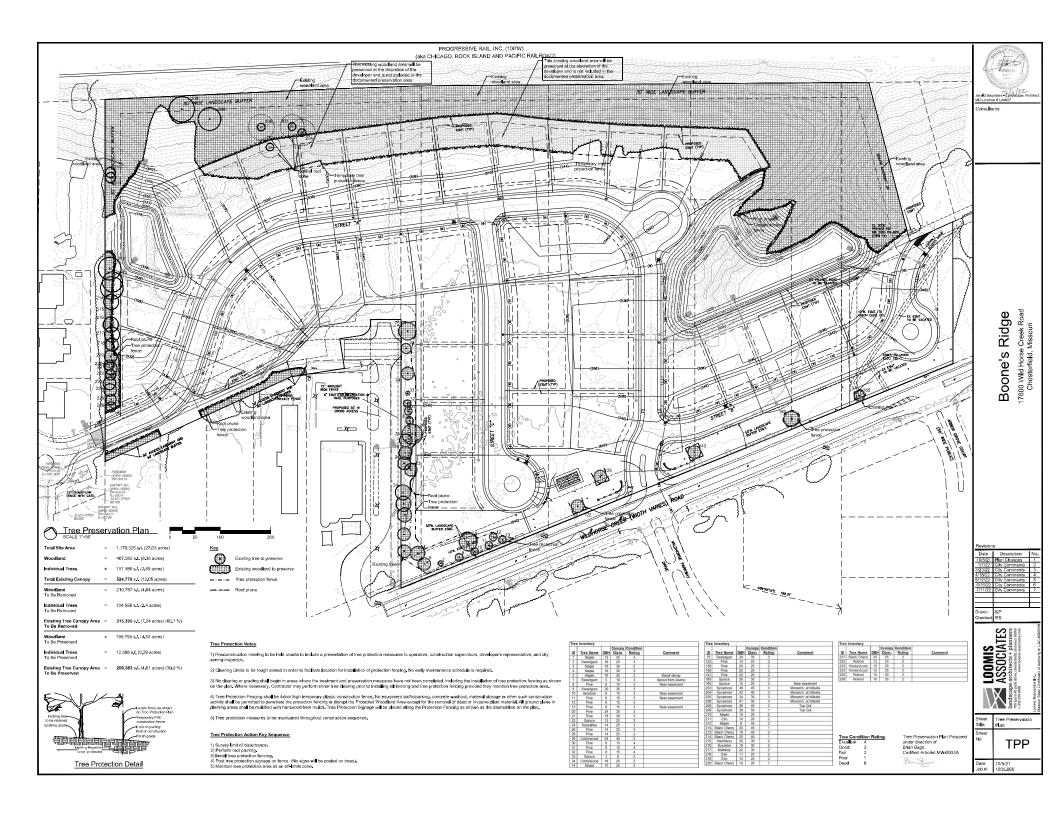
SHE DEVELOPMENT PLAN



License No. PE 200201661. Civil Engineer 17-05-107 Date July 29, 2022







cbbtraffic.com

July 5, 2022

Mr. Brian Jokerst Elite Development Services 16091 Swingley Ridge Road, Suite 300 Chesterfield, Missouri 63017

RE: Traffic Assessment

Proposed Boone's Ridge Residential Development

Chesterfield, Missouri CBB Job No. 049-22

Dear Mr. Jokerst:

As requested, CBB has prepared the following assessment to address the traffic levels associated with a proposed residential development of 36 homes known as Boone's Ridge development in Chesterfield, Missouri. The development site is located on the north side of Wild Horse Creek Road, opposite Wildhorse Parkway Drive. Access to the residential development is proposed via one full access driveway opposite Wildhorse Parkway Drive as well as one cross access connection to Silver Buck Lane. **Figure 1** illustrates the general location of the proposed site relative to the surrounding area. **Exhibit 1** illustrates the preliminary site plan provided by you.



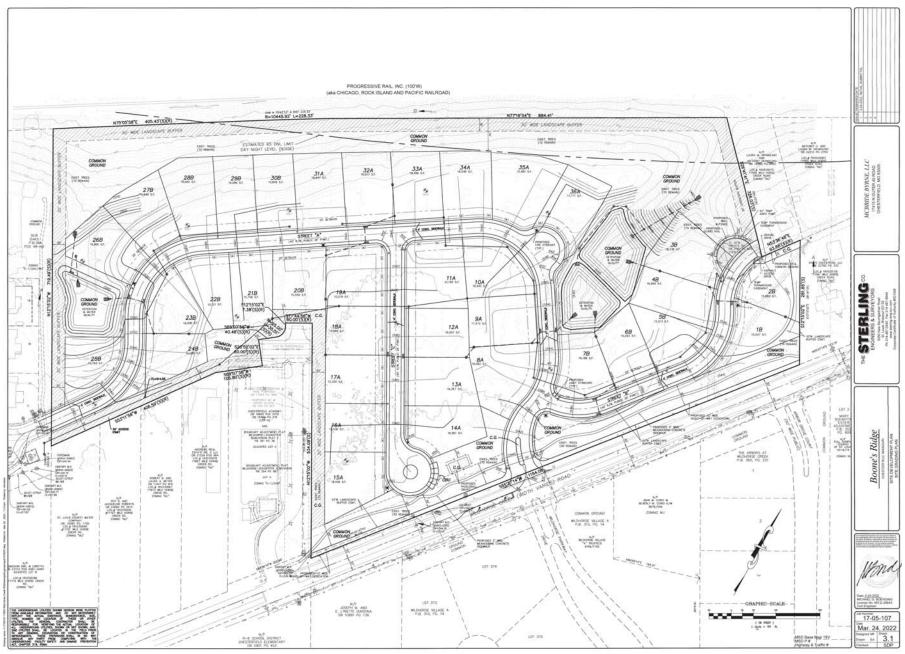


Exhibit 1: Preliminary Site Plan (provided by others)



Traffic Assessment Proposed Boone's Ridge Residential Development July 5, 2022 Page 3 of 10

The purpose of this traffic assessment was to observe the exiting conditions, estimate the number of trips that would be generated by the proposed residential development, assign the trips to the adjoining roadways, and project the impact of the additional trips based on the existing conditions. The focus of our analysis was the AM and PM peak hours of a typical weekday. This assessment only addresses the intersection of Wild Horse Creek Road at Wildhorse Parkway Drive.

EXISTING CONDITIONS

Area Roadway System: Wild Horse Creek Road (Missouri Route CC) is an east-west minor arterial roadway under the jurisdiction of the Missouri Department of Transportation (MoDOT). Wild Horse Creek Road generally provides two-lanes (one lane in each direction) with minimal shoulders. The posted speed limit is 45 miles per hour (mph) except along the segment between Wildhorse Parkway Drive and Silver Buck Lane for a 35-mph school zone, when flashing, for the Chesterfield Elementary School. The roadway has a rolling, curvy alignment with dense vegetation along both sides as well as overhead electric power lines located along the south side of the roadway. A center turn lane is provided along the segment between Wildhorse Parkway Drive and Greystone Manor Parkway/Silver Buck Lane. Several private residential driveways exist along the north side of the roadway.

Wildhorse Parkway Drive is a local residential street on the south side of Wild Horse Creek Road that serves a residential subdivision consisting of single-family homes.

The intersection of Wild Horse Creek Road and Wildhorse Parkway Drive is side-street stop-controlled with Wildhorse Parkway Drive required to stop. The northbound approach of Wildhorse Parkway Drive is approximately 20 feet wide. Based on observations during the traffic counts, motorist generally shift to one side of the roadway and utilize the northbound approach as separate left and right turn lanes at the approach to Wild Horse Creek Road. The westbound approach of Wild Horse Creek Road provides a single through lane and a sperate left-turn lane. The eastbound Wild Horse Creek Road approach has one shared through/right-turn lane as well as a lane that is hatched out opposite the westbound left-turn lane. **Figure 2** provides an aerial view of the Wild Horse Creek Road and Wildhorse Parkway Drive intersection.





Figure 2: Aerial of Wild Horse Creek Road at Wildhorse Parkway Drive Intersection

Existing Traffic Volumes: Video, turning movement traffic counts were conducted at the intersection of Wild Horse Creek Road and Wildhorse Parkway Drive during the weekday morning (7:00 - 9:00 a.m.) and weekday afternoon (3:00 - 6:00 p.m.) peak periods on Tuesday, May 25, 2022. The local schools were in session during the traffic counts. Based on the traffic data collected, the morning peak hour occurred between 7:15 and 8:15 a.m. and the afternoon peak hour occurred between 4:30 and 5:30 p.m. The existing peak hour volumes are summarized in **Exhibit 2**.

As seen in Exhibit 2, the eastbound through volumes are heaviest during the AM peak hour with just over 650 vehicles per hour (vph) and lighter during the PM peak with just over 450 vph. The westbound through volumes are relatively light during the AM peak hour with about 230 vph but are much heavier during the PM peak hour with approximately 730 vph. The westbound left-turn is relatively light during the AM peak with 75 vph and heavier with 200 vph during the PM peak. The eastbound right-turns are light with 30 to 35 right-turns during the AM and PM peak hours. The northbound approach of Wildhorse Parkway Drive is heaviest during the AM peak with 75 left-turns and 220 right-turns and remains moderate during the PM peak with 20 left-turns and 130 right-turns.



Exhibit 2: 2022 Existing Traffic Volumes



PROPOSED SITE

Proposed Development: The proposed development consists of 36 single-family homes with access proposed via one full access driveway on Wild Horse Creek Road, opposite Wildhorse Parkway Drive, as well as one cross access connection to Silver Buck Lane. It is our understanding the development will restripe an existing hatched out area on Wild Horse Creek Road, west of the site entrance, to accommodate an eastbound left-turn lane into the site. The new Boone's Ridge leg to the subdivision is proposed to provide one inbound lane and two outbound lanes (one left-turn lane and one right turn lane).

Trip Generation: Forecasts were prepared to estimate the amount of traffic the proposed 36 residential lots would generate during the weekday AM and PM peak hours. These forecasts were based upon information provided in the *Trip Generation Manual*, 11th Edition, published by the Institute of Transportation Engineers (ITE). This manual, which is a standard resource for transportation engineers, is based on a compilation of nationwide studies documenting the characteristics of various land uses. Estimates for the proposed uses were based on Land Use 210 (Single-Family Detached Housing).

The resulting trip generation estimate for the proposed 36 residential lots is summarized in **Table 1**. As shown in the table, the proposed 36 residential lots are estimated to generate 29 total trips during the weekday AM peak hour (7 in and 22 out) and 38 total trips during the weekday PM peak hour (24 in and 14 out).

Weekday AM Peak Hour Weekday PM Peak Hour Land Use Size Daily ln. Out Total In Out Total Single-Family Detached Housing 36 homes 394 7 22 29 24 14 38 (ITE 210)

Table 1: Trip Generation Estimate – Boone's Ridge

Trip Distribution: The new trips generated by the proposed residential development were assigned to the adjoining roadway system based upon the following anticipated directional distribution:

- 70% to/from the east on Wild Horse Creek Road;
- 25% to/from the west on Wild Horse Creek Road; and
- 5% to/from the south on Wildhorse Parkway Drive.

The trip distribution was applied to the site-generated traffic volumes, and those site trips were assigned to the roadways, as shown in **Exhibit 3**. This site-generated traffic was then added to the existing traffic volumes (Exhibit 2) to reflect the 2022 Build Traffic Volumes for the weekday AM and PM peak hours, as shown in **Exhibit 4**.



Exhibit 3: Site-Generated Trips

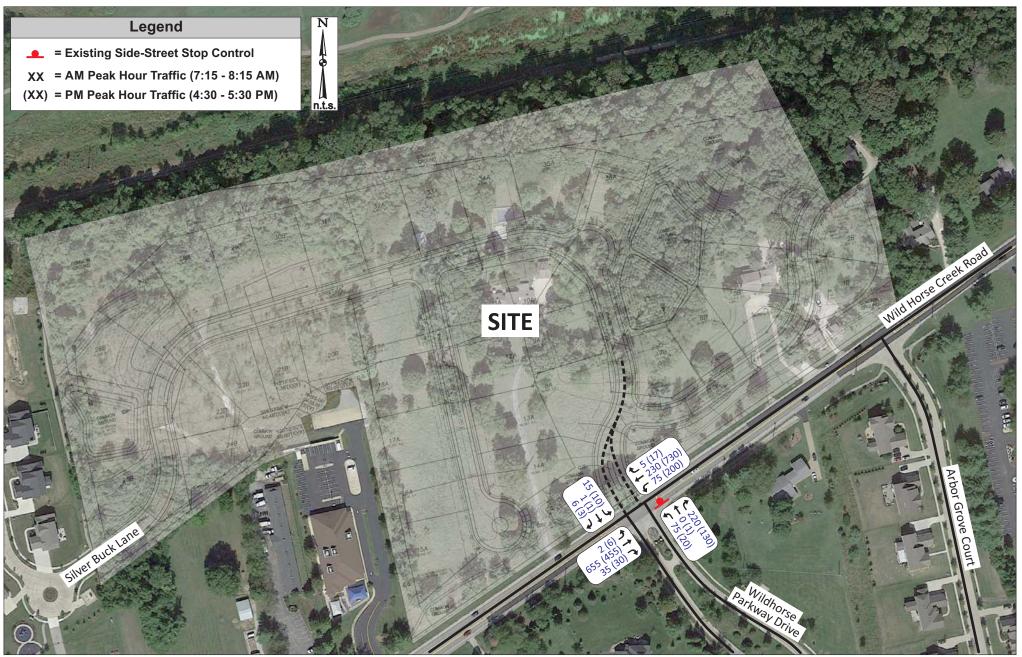


Exhibit 4: 2022 Build Traffic Volumes



Eastbound Left-Turn Lane: It is our understanding the development will restripe the existing hatched out area on Wild Horse Creek Road, west of the site entrance to accommodate an eastbound left-turn lane into the site.

TRAFFIC OBSERVATIONS

CBB recorded the actual delays experienced by the northbound left-turn and the northbound right-turn vehicles on Wildhorse Parkway Drive attempting to turn left and turn right onto Wild Horse Creek Road during the AM and PM peak hours. The average delays measured in the field for the turns from Wildhorse Parkway Drive are summarized in **Table 2**. During the peak hours, the northbound left-turns incurred 29 to 33 seconds of delay, on average, while the right-turns only incurred about 10 to 15 seconds of delay, on average. The left-turns from Wild Horse Creek Road to Wildhorse Parkway Drive (into the subdivision) were also observed to have low levels of delays.

Table 2: Observed Delays – Existing Conditions

Intersection/Approach	AM PEAK HOUR	PM PEAK HOUR			
Wild Horse Creek Road and Wildhorse Parkway Drive— Side-Street Stop					
Wildhorse Parkway Drive - Northbound Left-Turn	33 sec	29 sec			
Wildhorse Parkway Drive - Northbound Right-Turn	15 sec	9 sec			

Average Vehicular delay in seconds per vehicle

Since the proposed new leg for the Boone's Ridge subdivision proposes separate left and right-turn lanes exiting the subdivision and the forecasted turns to the Boone's Ridge subdivision are much lower than the existing Wildhorse Parkway Drive turns, the new southbound approach is expected to be similar to the Wildhorse Parkway Drive approach.

Since separate left-and right-turn lanes are proposed on the southbound approach exiting the proposed Boone's Ridge subdivision and a separate eastbound left-turn will be provided into the subdivision, little else could be done to improve the side-street conditions. A traffic signal is not warranted due to the light side-street left-turn volumes outside the AM peak hour, nor should it be considered due to the short spacing between the signalized intersection along Wild Horse Creek Drive.



SUMMARY

Based upon the preceding discussion, the following may be concluded regarding the traffic impacts of the proposed residential development of the Boone's Ridge residential development in Chesterfield, Missouri:

- The northbound left-turn from Wildhorse Parkway Drive was field measure to incur about 31 seconds of delay, on average, during the AM peak hour and about 29 seconds of delay on average during the PM peak hour.
- The northbound right-turn from Wildhorse Parkway Drive was field measure to incur about 10 to 15 seconds of delay on average during the AM and PM peak hours.
- The proposed residential development of 36 homes is expected to generate 29 *new* trips during the AM peak hour and 38 *new* trips during the PM peak hour.
- The development will restripe Wild Horse Creek Road to provide an eastbound left-turn lane into the site.
- The Boone's Ridge subdivision will provide separate left and right-turn lanes exiting the subdivision.
- The forecasted turns to and from the new Boone's Ridge leg are expected to be much lower than the turns to/from Wildhorse Parkway Drive.
- The new southbound approach is expected to be similar to the northbound leg of Wildhorse Parkway Drive.
- There are no further improvements to improve conditions and a traffic signal is not warranted nor should it be considered due to the short spacing between the adjacent signalized intersection.

We trust that you will find this report useful in addressing the traffic associated with the proposed Boone's Ridge residential development in Chesterfield, Missouri. Should there be any questions regarding this information, please contact me at (314) 479-5022 or brensing@cbbtraffic.com.

Sincerely,

Brian Rensing, P.E., PTOE, RSP2I

Buan Resmy

Associate - Senior Traffic Engineer