## Utilities

Sanitary Sewer City of O'Fallon 100 N. Main Street O'Fallon, MO 63366 636-240-2000 City of O'Fallon 100 N. Main Street O'Fallon, MO 63366

Ameren Missouri 200 Callahan Road Wentzville, MO 63385 636-639-8312

Spire Energy 6400 Graham Road St. Louis, MO 63134 314-522-2297 Telephone

CenturyLink 1151 Century Tel Drive Wentzville, MO 63385 636-332-7261 Fire Department

O'Fallon Fire Protection District 111 Laura K Drive O'Fallon, MO 63366 636-272-3493

Storm Sewer City of O'Fallon 100 N. Main Street O'Fallon, MO 63366

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UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE

Locator Map

## Benchmarks

Project

Plan View - 1"=40'

Cut square on the Northwest corner of the North headwall of a 4'x7' concrete box. Missouri State Highway P station 506+64 - 20.5' left. Elevation: 459.35 (USGS Datum)

Site BENCHMARK: Old iron pipe at the Northeast corner of subject property.

> For Urban Development Sites APPENDIX A SEEDING RATES: PERMANENT: Tall Fescue - 150 lbs./ac. Smooth Brome — 100 lbs./ac. Combined — Fescue @ 75 lbs./ac. AND Brome @ 50 lbs./ac. TEMPORARY:
> Wheat or Rye - 150 lbs./ac. (3.5 lbs. per 1,000 s.f.)
> Oats - 120 lbs./ac. (2.75 lbs. per 1,000 s.f) <u>SEEDING PERIODS:</u>
> Fescue or Brome — March 1 to June 1 August 1 to October 1
> Wheat or Rye — March 15 to November 1
> Oats — March 15 to September 15 MULCH RATES: 100 lbs. per 1000 sq. ft. (4,356 lbs. per ac.) FERTILIZER RATES: Nitrogen 30 lbs./ac.

> > 600 lbs./ac. ENM\*

\* ENM = effective neutralizing material as per

Phosphate 30 lbs./ac.

Potassium 30 lbs./ac.

**VEGETATION ESTABLISHMENT** 

-800-DIG-RITE

CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

# Site Notes

\* City of O'Fallon Construction work hours per City Ordinance 3429 as shown in Section 500.420 of the Municipal Code of the City of O'Fallon are as follows:

October 1 through May 31

7:00 A.M. To 7:00 P.M. Monday Through Sunday June 1 Through September 30

Drawing Index

SITE PLAN

**COVER SHEET** 

**DEMOLITION PLAN** 

DRAINAGE AREA MAP

**GRADING PLAN** 

WATER PLAN

SWPP PLAN

9-12 DETAILS

6:00 A.M. To 8:00 P.M. Monday Through Friday 7:00 A.M. to 8:00 P.M. Saturday and Sunday

\* The area of this phase of development is 68,796 s.f. (1.579 Ac.) The area of land disturbance is 0.68 Ac. Number of proposed lots is 1

Building setback information for R-3 (Garden Apartment District) Front: 30'

Side: 20' Rear: 35'

\* The estimated sanitary flow in gallons per day is: 2,220 gpd

\*Tree Preservation Calculations: Existing Trees = 0.646 Acres 1.579 Acres / 15 trees per acres = 0.105 Acres  $0.646 \times 20\% = 0.129 \text{ Acres}$ 0.129 > 0.105 = 0.129 Acres to be preserved 0.00 Acres To Be Removed 0.646 Acres Preserved

City approval of any construction site plan does not mean that any building can be constructed on the lots without meeting the building setbacks as required by the zoning codes.

All installations and construction shall conform to the approved engineering drawings. However, if the developer chooses to make minor modifications in design and/or specifications during construction, they shall make such changes at their own risk, without any assurance that the City Engineer will approve the completed installation or construction. It shall be the responsibility of the developer to notify the City Engineer of any changes from the approved drawings. The developer may be required to correct the installed improvements so as to conform to the approved engineering drawings. The developer may request a letter from the Construction Inspection Division regarding any field changes approved by the City Inspector.

CITY OF O'FALLON COMMUNITY DEVELOPMENT DEPARTMENT ACCEPTED FOR CONSTRUCTION BY: Jannie Greenlee DATE 01/14/2019

PROFESSIONAL ENGINEER'S SEAL INDICATES RESPONSIBILITY FOR DESIGN

#### **Development Notes**

A SET OF CONSTRUCTION PLANS FOR

SHANE ESTATES

A TRACT OF LAND BEING ALL OF LOTS 1 AND 2 OF "SHANE ESTATES" P.B. 36, PG. 169 AND PART OF

U.S. SURVEY 2632 TOWNSHIP 47 NORTH, RANGE 3 EAST OF THE FIFTH PRINCIPAL MERIDIAN

CITY OF O'FALLON

ST. CHARLES COUNTY, MIISSOURI

EXIST. SINGLE CURB INLET

PROPOSED SINGLE CURB INLET

EXIST. AREA INLET

PROPOSED AREA INLET

PROPOSED GRATE INLET

EXIST. STORM MANHOLE

PROPOSED MANHOLE

POWER POLE

LIGHT STANDARD

FIRE HYDRANT

WATER METER

WATER VALVE

TELEPHONE PEDESTAL

GAS VALVE

BENCHMARK

FOUND PIPE

MAILBOX

SET PIPE

GUY WIRE

EXIST. SANITARY MANHOLE

Conditions of Approval From

(18-000613) - APPROVED ON APRIL 5, 2018 WITH THE FOLLOWING

ACCORDING TO THE LETTER PROVIDED BY THE SCHOOL DISTRICT, BUS SERVICE WILL NOT BE

PROVIDED WITHIN THE APARTMENT COMPLEX, PROVIDE THE SIGNAGE REQUESTED IN THE

2. DEMONSTRATE HOW THE TRASH ENCLOSURE WILL BE ACCESSED AND THE SITE EXITED BY A TRASH TRUCK WITHOUT USING HIGHWAY P AS REVIEWED AND APPROVED ON THE

THE DEVELOPER SHALL REVIEW OPTIONS TO MAKE THE SCHOOL BUS STOP AHEAD SIGN AS

4. THE CONSTRUCTION PLANS SHALL ADDRESS THE MUNICIPAL CODE REQUIREMENTS LISTED.

ALL ACCESSIBILITY REMPS ARE TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE

LINE FROM THE CONNCETION TO THE METER IS MAINTAINED BY THE CITY.

THE APPROVAL IS ALSO CONDITIONAL UPON THE FOLLOWING MUNICIPAL CODE

WATER METERS ARE TO BE IN THE EASEMENT JUST BEHIND THE RIGHT OF WAY. THE WATER

3. DETENTION AND WATER QUALITY ARE REQUIRED PER CITY CODE 405.240 & 405.247. USE THE

4. NOTE ON THE PLAN THAT THE SANITARY LATERALS ARE TO BE 6" SCHEDULE 40 PVC AT A

5. THE LOWEST FLOOR ELEVATION FOR THE BUILDING WILL NEED TO BE 466.0 TO MEET THE REQUIREMENTS OF CITY CODE 415. NOTE ON THE PLAN THAT ELEVATION CERTIFICATES WILL

100 YEAR PI FACTORS FOR THE DIFFERENTIAL RUNOFF CALCULATIONS. WATER QUALITY SHALL

0

VISIBLE AS POSSIBLE AND POTENTIALLY MODIFIED TO INCLUDE AN ILLUMINATED OR FLASHING

FEATURE SUBJECT TO MODOT APPROVAL THAT COULD BE ACTIVATED ONLY DURING PICK-UP.

Planning and Zoning

REQUIREMENTS BEING PROVIDED:

Legend

RCP

CO

LETTER FOR SERVICE AT THE HIGHWAY P ENTRANCE.

BE PROVIDED PER THE CODE, THERE IS NO EXCEPTION

PROPOSED LABELS

SINGLE CURB INLET

DOUBLE CURB INLET

DOUBLE AREA INLET

DOUBLE GRATE INLET

FLARED END SECTION

REINFORCED CONCRETE PIPE

CORRUGATED METAL PIPE

CORRUGATED PLASTIC PIPE

POLY VINYL CHLORIDE (PLASTIC)

AREA INLET

GRATE INLET

CONCRETE PIPE

CLEAN OUT

---- STM ----- EXISTING STORM SEWER

EXISTING WATER LINE

--- GAS --- EXISTING GAS LINE

----x-----x----- FENCE LINE

SAWCUT LINE

---- SAN ---- EXISTING SANITARY SEWER

FO EXISTING FIBER OPTIC LINE

SLOPE LIMITS

DRAINAGE SWALE

---- UGE ---- EXISTING UNDERGROUND ELECTRIC

PROPOSED SANITARY SEWER

CONCRETE PAVEMENT

---- OHW ---- EXISTING OVERHEAD ELECTRIC

---- CTV ---- EXISTING CABLE TV LINE

T EXISTING TELEPHONE LINE

--- PROPOSED STORM SEWER

MANHOLE

"R-3", Garden Apartment District

Michael V. Schneider & Joseph & Paula Dames 2101 Flatwoods Road 428 N. Main Street O'Fallon, MO 63366 O'Fallon, MO 63366

According to the Flood Insurance Rate Map of St. Charles, Missouri, Unincorporated Areas (Community - Panel Number 29183C0230G, dated January 20, 2016). This tract lies partially in Zone X (Areas determined to be outside the 0.2% annual chance floodplain.) and partially within Zone AE (Special flood hazard greas with base flood elevations determined).

6. Topographic & boundary information is per survey as compiled by Bax Engineering.

All existing creeks, streams, and drainage swales will have an associated storm water easement that will be provided on the Record Plat.

8. All new lighting shall be downcast lights consistent with City of O'Fallon standards and specifications. A photometric plan shall be submitted with construction documents for review

9. Underground utilities have been plotted from available information and therefore their locations shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans shall be the responsibility of the contractor, and shall be located prior to any grading or construction of the improvements.

10. All new utilities are to be located underground

11. All grades shall be within 0.2 feet of those shown on the grading plan

12. No slope shall be steeper than 3:1. All slopes shall be sodded or seeded and mulched.

13. All construction and materials used shall conform to current City of O'Fallon standards.

14. Traffic control is to be per MoDOT or MUTCD, whichever is more stringent.

15. All proposed fencing requires a separate permit from the Planning & Development division.

16. Site Coverage Calculations: Total Site = 1.54 Acres

Buildings = 0.077 Acres (5%)

Pavement = 0.245 Acres (15.9%)Greenspace = 1.218 Acres (79.1%)

17. Parking Calculations: One and one-half (1.5) spaces for efficiency and one (1) bedroom unit, plus one (1) additional space for each additional bedroom 6 Units  $\times$  2.5 spaces = 15 spaces

required 18 spaces proposed (including 1 accessible space) 18. Landscape Requirements: Not less than 6% of the interior parking lot shall be landscaped 15 spaces X 270 s.f. = 4,050 s.f.

 $4,050 \times 6\% = 243 \text{ s.f. Required}$ Provided = 454 s.f.

19. Landscape Bufferyard Requirements: Along perimeter, a 15' wide Bufferyard with 6' Vinyl Sight-Proof Fence With a total of 1.5 plant units per every 100 feet of frontage Western property line = 216.16 l.f. / 100 =  $2.16 \times 1.5 = 3.24$  plant units required

3.24 units x 30 points = 97.2 points Required 12 Trees @ 10 points each = 120 points Proposed Eastern property line =  $211.29 \text{ l.f.} / 100 = 2.11 \times 1.5 = 3.165 \text{ plant units}$ required 3.165 units x 30 points = 94.95 points required

10 Trees @ 10 points each = 100 points Proposed

20. Differential Runoff Calculations: Site Area: 67,197.22 S.F. (1.54 Acres)

Existing: Ex. Building & Pavement: 0.0706 Acres @ 3.85 = 0.271 Ex. Grass: 1.47 Acres @ 1.87 = 2.749 Existing Total = 3.02cfs

Existing 100yr: Ex. Building & Pavement: 0.0706 Acres @ 6.08 = 0.429 Ex. Grass: 1.47 Acres @ 2.95 = 4.336 Existing Total = 4.765cfs

Building & Pavement: 0.322 Acres @ 3.85 = 1.239 Grass: 1.218 Acres @ 1.87 = 2.277

Proposed 100yr:
Building & Pavement: 0.322 Acres @ 6.08 = 1.957

Grass: 1.218 Acres @ 2.95 = 3.593 Proposed Total = 5.55cfs

Total Differential: 3.516cfs - 3.02cfs = 0.496cfs Increase in Runoff

Total Differential 100yr: 4.765cfs - 5.55cfs = 0.785 Increase in Runoff

(No Detention Required)



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uthenticated by my seal are limited to this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications, Estimates, Reports or othe documents or instruments relating to or intended t be used for any part or parts of the architectural



Clifford L. Heitmann Civil Engineer Bax Engineering Company, Inc. Missouri State Certificate of Authority

Engineering #000655 REVISIONS

07/05/18 | CITY COMMENTS 07/17/18 CITY COMMENTS 08/31/18 MODOT COMMENTS 01/09/19 CITY COMMENTS

09/12/18 MODOT COMMENTS 12/10/18 | CLIENT COMMENTS

PERITY STREE

A REAL NORTH ILLON, N

18-000613

Approval Date: 04/05/2018