

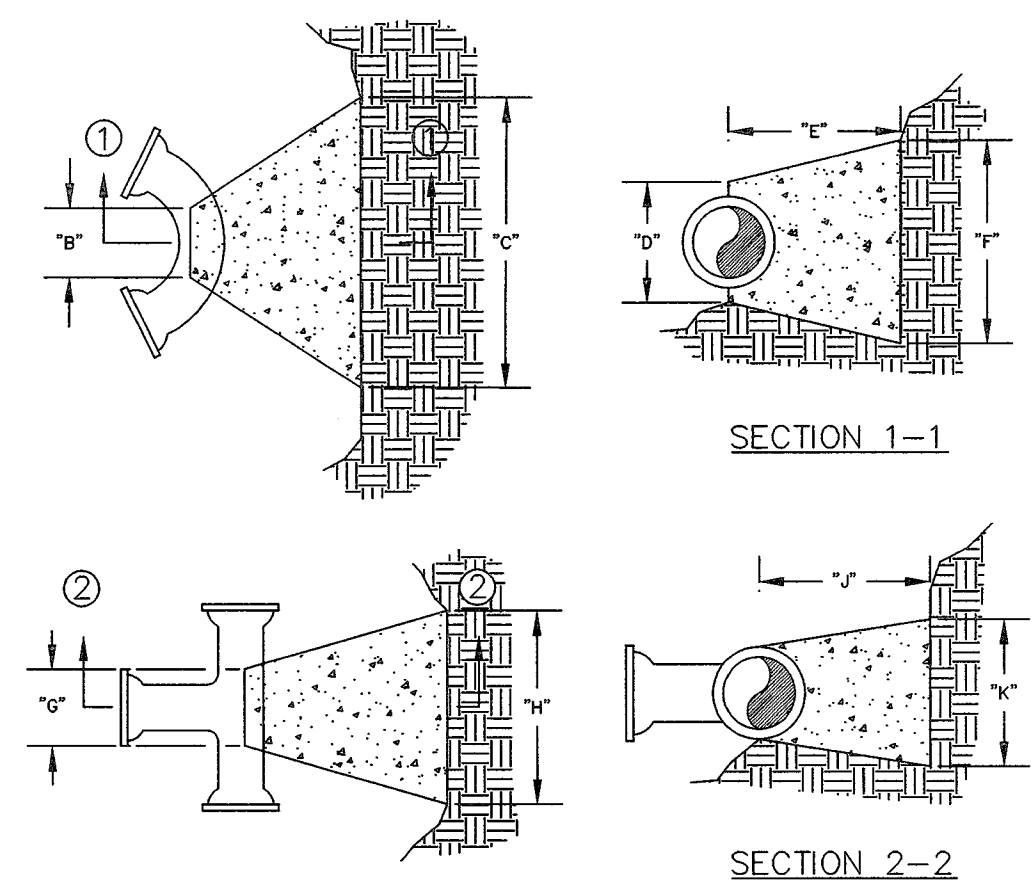
BENDS	"B"	"C"	"D"	"E"	"F"
6"-11 1/4"	8"	15"	12"	24"	10"
8"-22 1/2"	8"	18"	12"	24"	13"
8"-45"	8"	30"	12"	24"	15"
8"-90"	8"	30"	12"	24"	28"
8"-11 1/4"	8"	22"	12"	24"	10"
8"-22 1/2"	8"	31"	12"	24"	13"
8"-45"	8"	31"	12"	24"	24"
8"-90"	8"	38"	12"	24"	38"
12"-11 1/4"	8"	30"	12"	24"	15"
12"-22 1/2"	8"	35"	12"	24"	25"
12"-45"	8"	40"	12"	24"	40"
12"-90"	8"	60"	12"	24"	50"
16"-11 1/4"	TL	28"	20"	24"	28"
16"-22 1/2"	TL	39"	20"	24"	39"
16"-45"	TL	45"	20"	24"	45"
16"-90"	TL	91"	20"	24"	60"
20"-11 1/4"	TL	34"	24"	28"	28"
20"-22 1/2"	TL	48"	24"	28"	39"
20"-45"	TL	74"	24"	28"	55"
20"-90"	TL	138"	24"	28"	60"
24"-11 1/4"	TL	40"	28"	28"	40"
24"-22 1/2"	TL	56"	28"	28"	56"
24"-45"	TL	101"	28"	28"	60"
24"-90"	TL	186"	28"	28"	60"
30"-11 1/4"	TL	49"	34"	30"	49"
30"-22 1/2"	TL	79"	34"	30"	69"
30"-45"	TL	154"	34"	30"	60"
30"-90"	TL	285"	34"	30"	60"

TEES	"O"	"H"	"J"	"K"
6"x6"x6"	12"	24"	24"	18"
8"x8"x8"	12"	24"	24"	15"
8"x8"x8"	12"	24"	24"	17"
12"x12"x12"	12"	24"	24"	18"
12"x12"x12"	12"	24"	24"	21"
12"x12"x12"	12"	36"	24"	38"
24"x24"x18"	16"	55"	28"	53"

NOTES:
 1. 2" & 4" FITTINGS EQUIVALENT TO 6" FITTINGS.
 2. TAPPING SLEEVES TO HAVE BACKING BLOCKS SAME SIZE AS REQUIRED FOR FITTING.
 3. "L" IS TOTAL LENGTH OF FITTING MINUS CLEARANCE FOR BELLS.

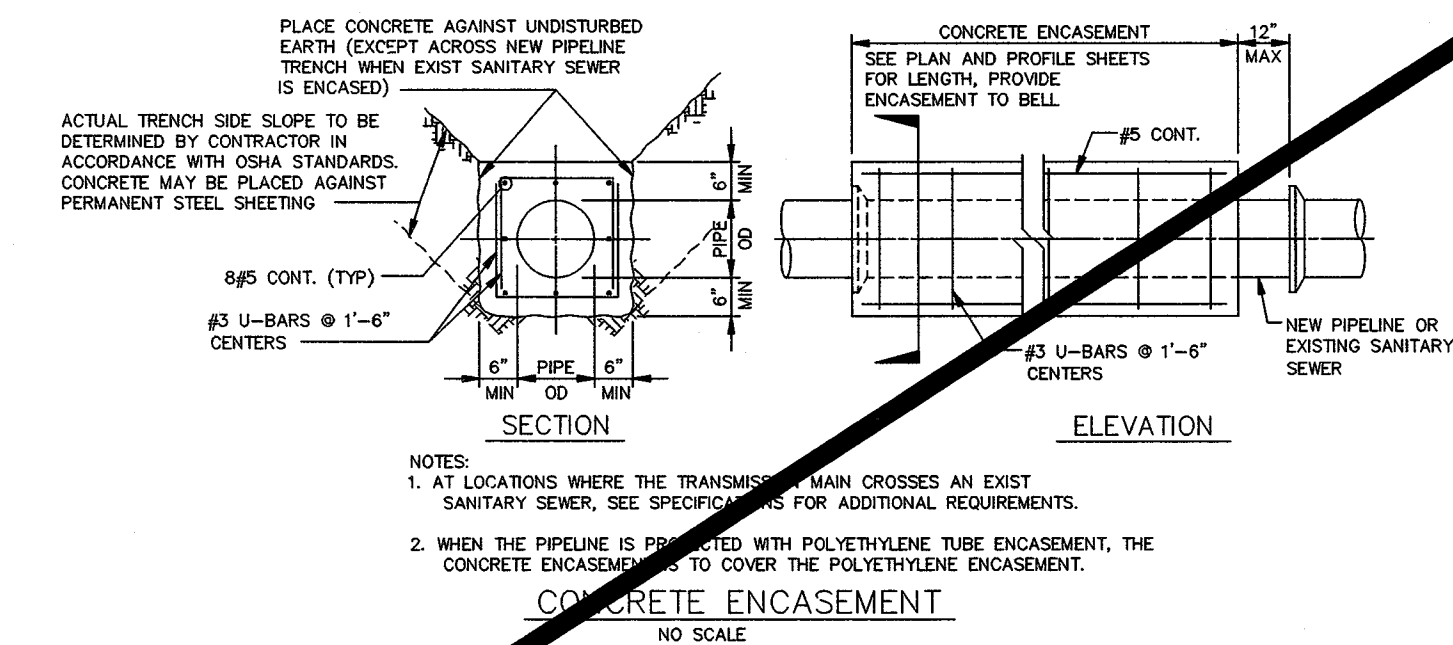
INTERNAL WATER PRESSURE 6" through 12"=200 psi
 INTERNAL WATER PRESSURE 16" through 30"=210 psi
 BEARING PRESSURE OF SOIL=2000 psi

BACKING BLOCKS
 NOT TO SCALE



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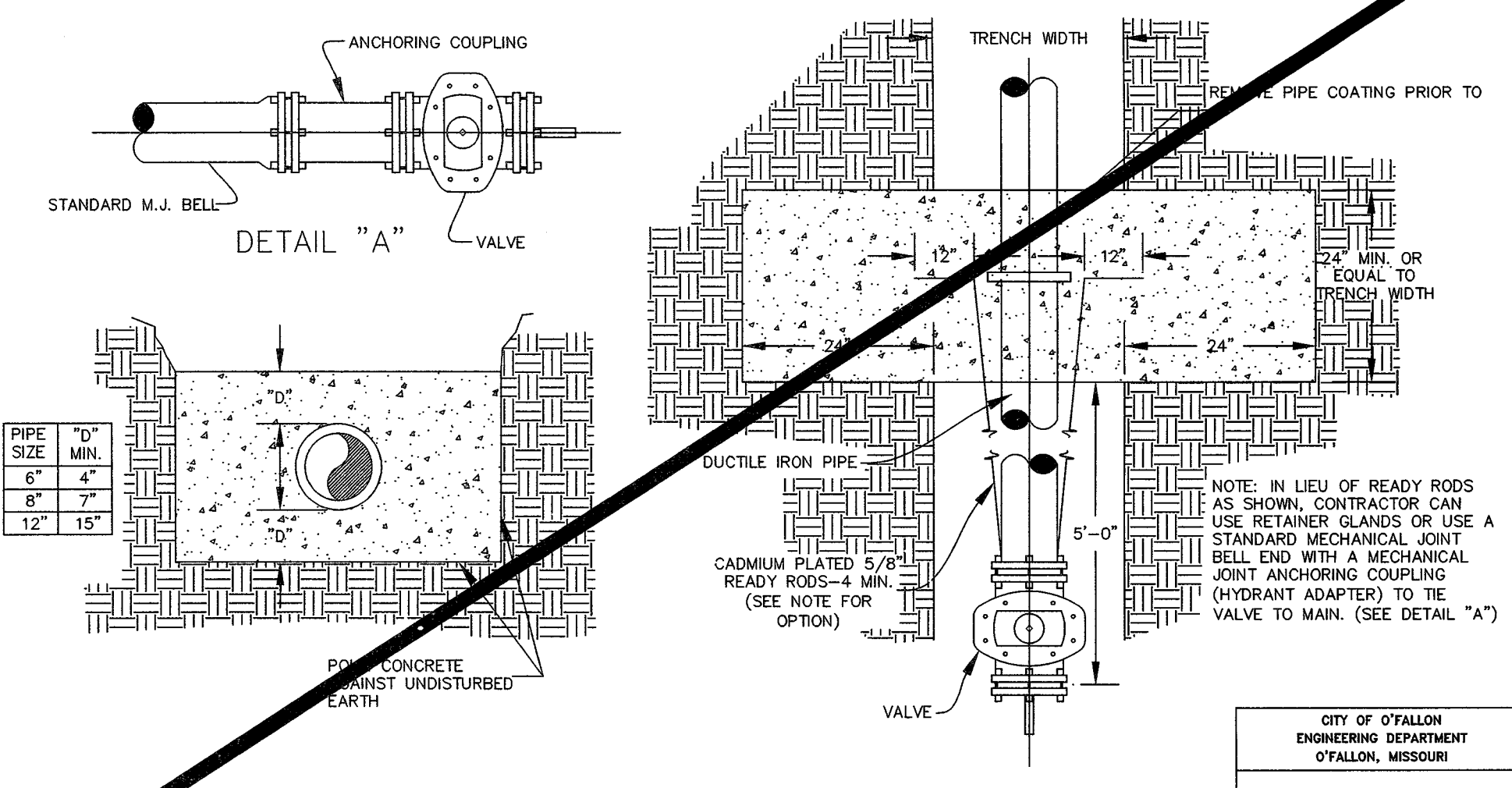
BACKING BLOCK
 DETAILS AND LOCATIONS



CONCRETE ENCASEMENT
 NO SCALE

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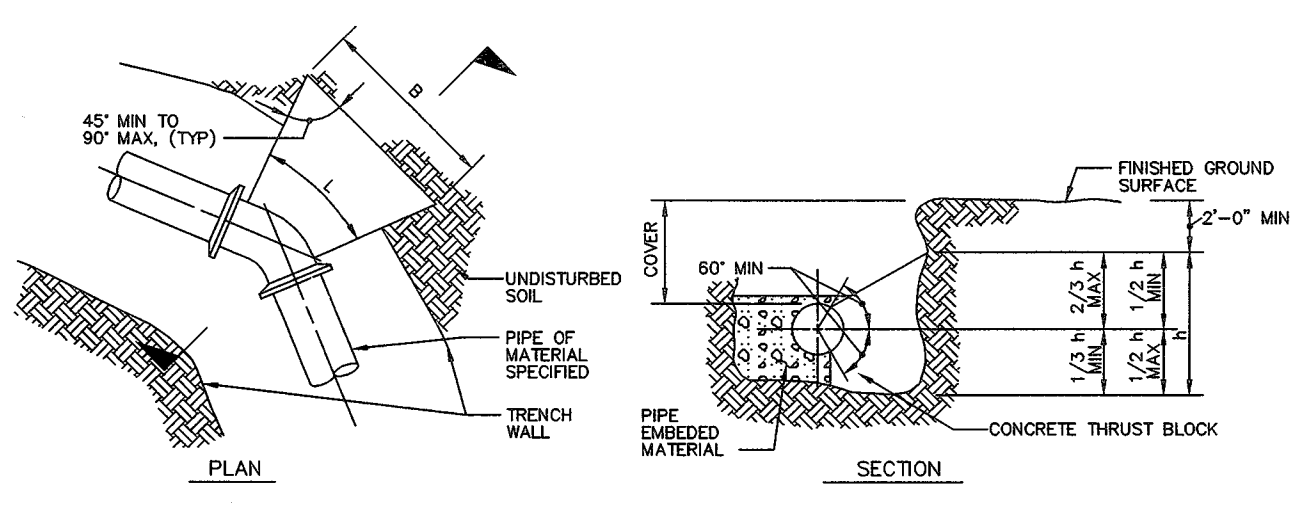
CONCRETE ENCASEMENT
 DETAILS



STRADDLE BLOCK DETAIL
 NOT TO SCALE

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STRADDLE BLOCK
 DETAILS



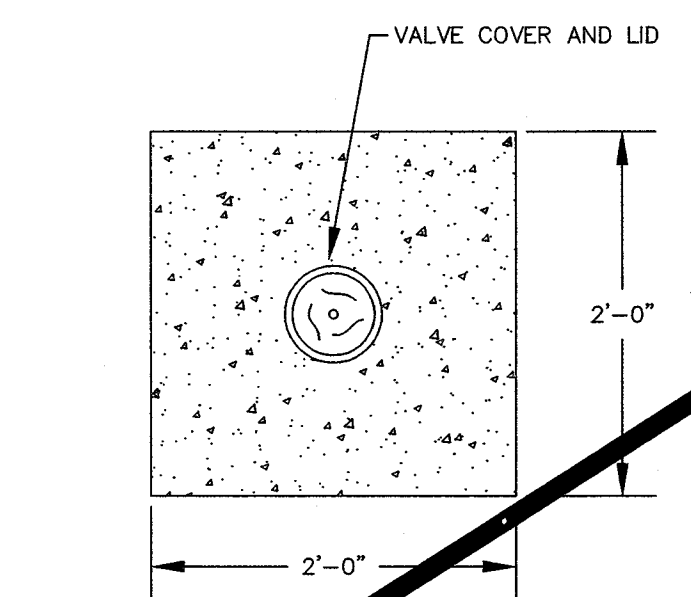
NOTES:
 1. AREA OF BLOCK, A = BxH. BLOCK AREAS ARE SHOWN ON GENERAL LAYOUT OR TABLE.
 2. B = H = 1/2" EXCEPT WHERE TOP OF BLOCK IS WITHIN 2 FEET FROM GROUND SURFACE, THEN B = A.H.
 3. MINIMUM BLOCK DIMENSION (B & H) SHALL BE AT LEAST 60% OF PIPE OR 1 FOOT FOR PIPE 12" OR LESS.
 4. THE BOTTOM OF THE BLOCK SHALL EXTEND AT LEAST TO THE BOTTOM OF THE TRENCH IN ALL CASES.
 5. L=FITTING LENGTH MINUS CLEARANCE FOR BELLS.
 6. DETAIL IS SHOWN FOR CAST IRON PIPE; DETAIL IS SIMILAR FOR OTHER TYPES OF PIPE.
 7. DIMENSIONS FOR THRUST BLOCKS FOR FIRE HYDRANT ASSEMBLY ARE SHOWN FIRE HYDRANT ASSEMBLY DETAIL.

SIZE	BEND	THRUST AREA	B	H
16"	22 1/2"	4 SF	2'	2'
16"	45"	8 SF	2.8'	2.8'

CONCRETE THRUST BLOCKING
 NOT TO SCALE

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CONCRETE THRUST
 BLOCKING DETAILS

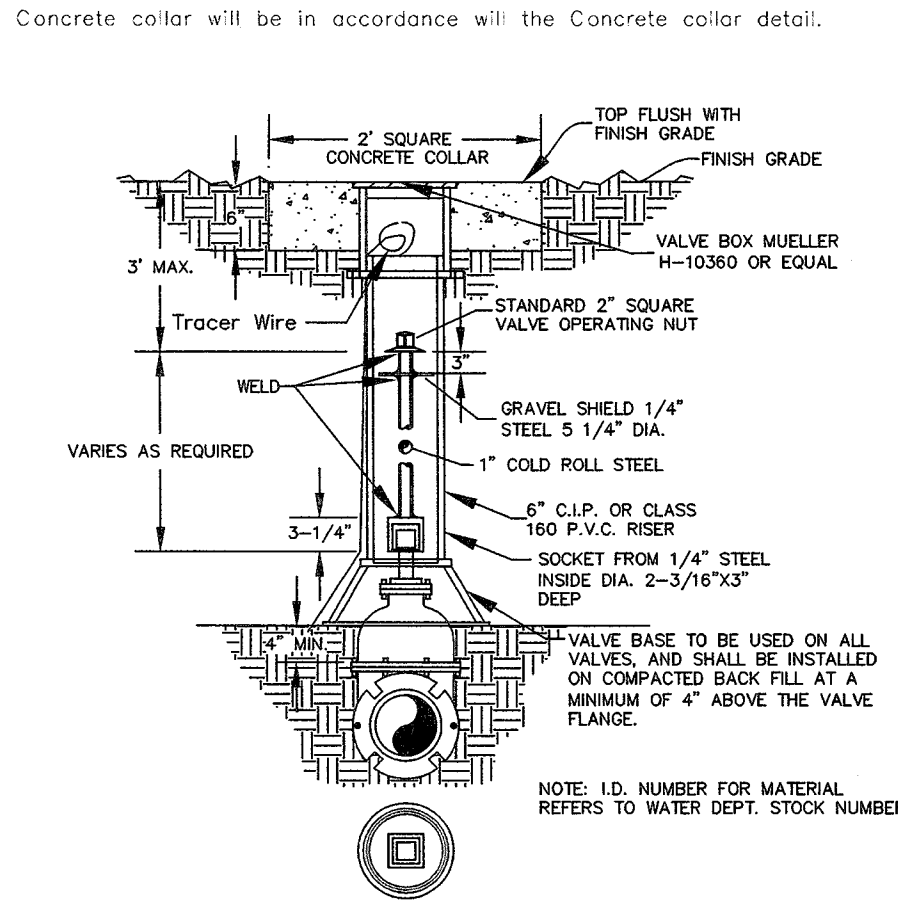


TOP VIEW
 CONCRETE COLLAR
 NOT TO SCALE

Note: 1. Concrete collar joint pattern is required in paved areas such as footwalks, driveways, sidewalks or other areas of paved surfaces.
 2. Concrete collars are optional in other non-paved areas.

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CONCRETE
 COLLAR DETAIL



WATER VALVE DETAIL
 NOT TO SCALE

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WATER
 VALVE DETAIL

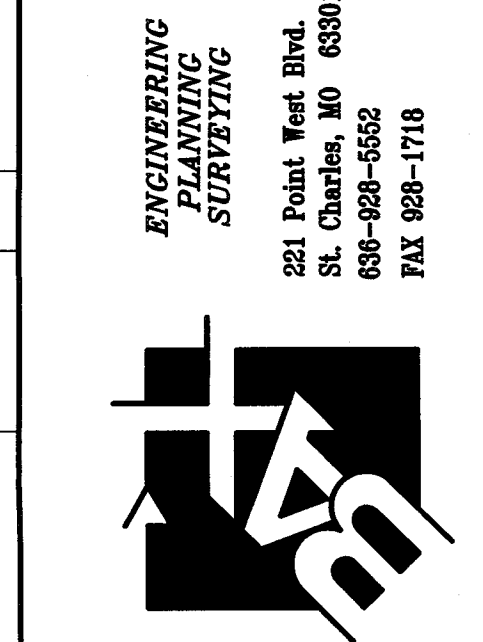
REVISIONS

8-15-17	CITY COMMENTS

PROJECT TITLE:
 SCCAD BASE 18

ENGINEERING
 PLANNING
 SURVEYING

221 Point West Blvd
 St. Charles, MO 63301
 636-928-6662
 FAX 928-1718



REFERENCE
 DRAWINGS
 ONLY

Developer / Owner:
 ST. CHARLES COUNTY AMBULANCE DISTRICT
 4169 OLD MILL PARKWAY
 ST. PETERS, MISSOURI 63376

P+Z No. #04-16.02.01
 City No. #17-005139

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WATER DETAILS