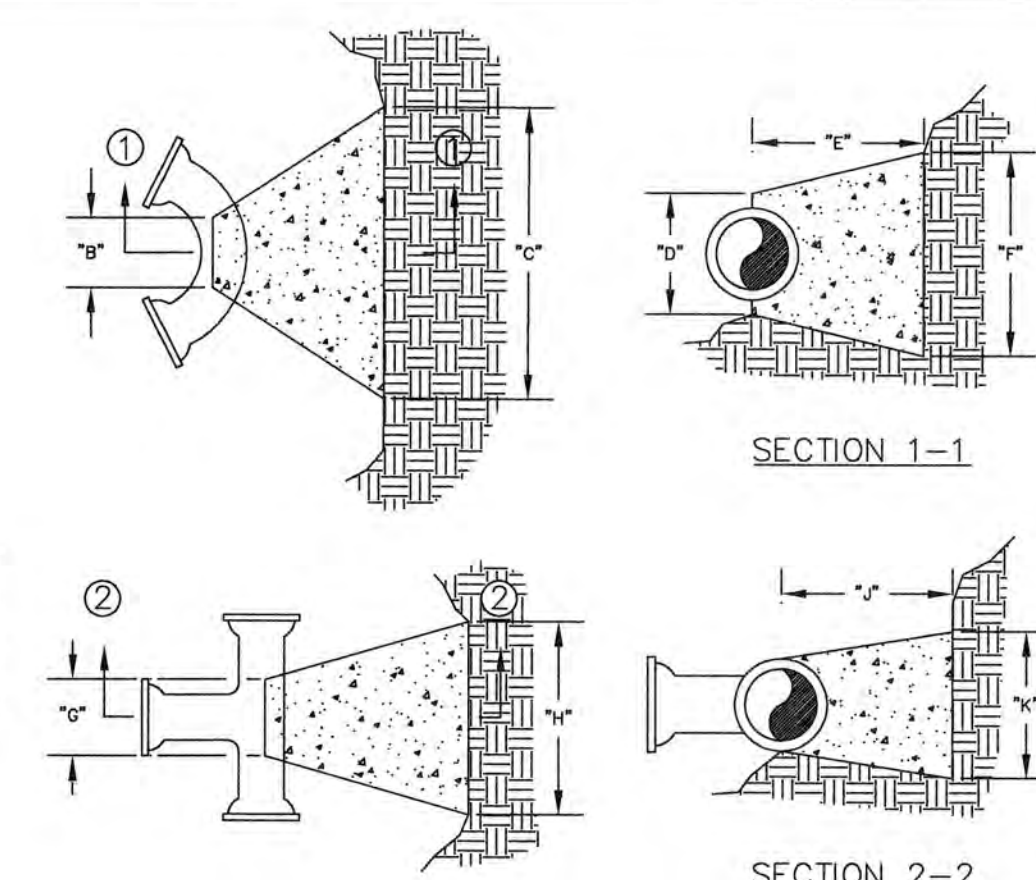


BONDS	10"	12"	14"	16"
6"-11 1/4"	8"	10"	12"	14"
6"-22 1/2"	8"	10"	12"	14"
6"-40"	8"	10"	12"	14"
6"-90"	8"	10"	12"	14"
8"-11 1/4"	8"	10"	12"	14"
8"-22 1/2"	8"	10"	12"	14"
8"-40"	8"	10"	12"	14"
8"-90"	8"	10"	12"	14"
12"-11 1/4"	8"	10"	12"	14"
12"-22 1/2"	8"	10"	12"	14"
12"-40"	8"	10"	12"	14"
12"-90"	8"	10"	12"	14"
16"-11 1/4"	8"	10"	12"	14"
16"-22 1/2"	8"	10"	12"	14"
16"-40"	8"	10"	12"	14"
16"-90"	8"	10"	12"	14"
20"-11 1/4"	8"	10"	12"	14"
20"-22 1/2"	8"	10"	12"	14"
20"-40"	8"	10"	12"	14"
20"-90"	8"	10"	12"	14"
24"-11 1/4"	8"	10"	12"	14"
24"-22 1/2"	8"	10"	12"	14"
24"-40"	8"	10"	12"	14"
24"-90"	8"	10"	12"	14"
30"-11 1/4"	8"	10"	12"	14"
30"-22 1/2"	8"	10"	12"	14"
30"-40"	8"	10"	12"	14"
30"-90"	8"	10"	12"	14"

TEES	10"	12"	14"	16"
8"x8"x8"	12"	24"	24"	18"
8"x8"x8"	12"	24"	24"	27"
12"x12"x8"	12"	24"	18"	
12"x12"x8"	12"	24"	27"	
12"x12"x12"	12"	24"	18"	
24"x24"x16"	16"	36"	28"	53"

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

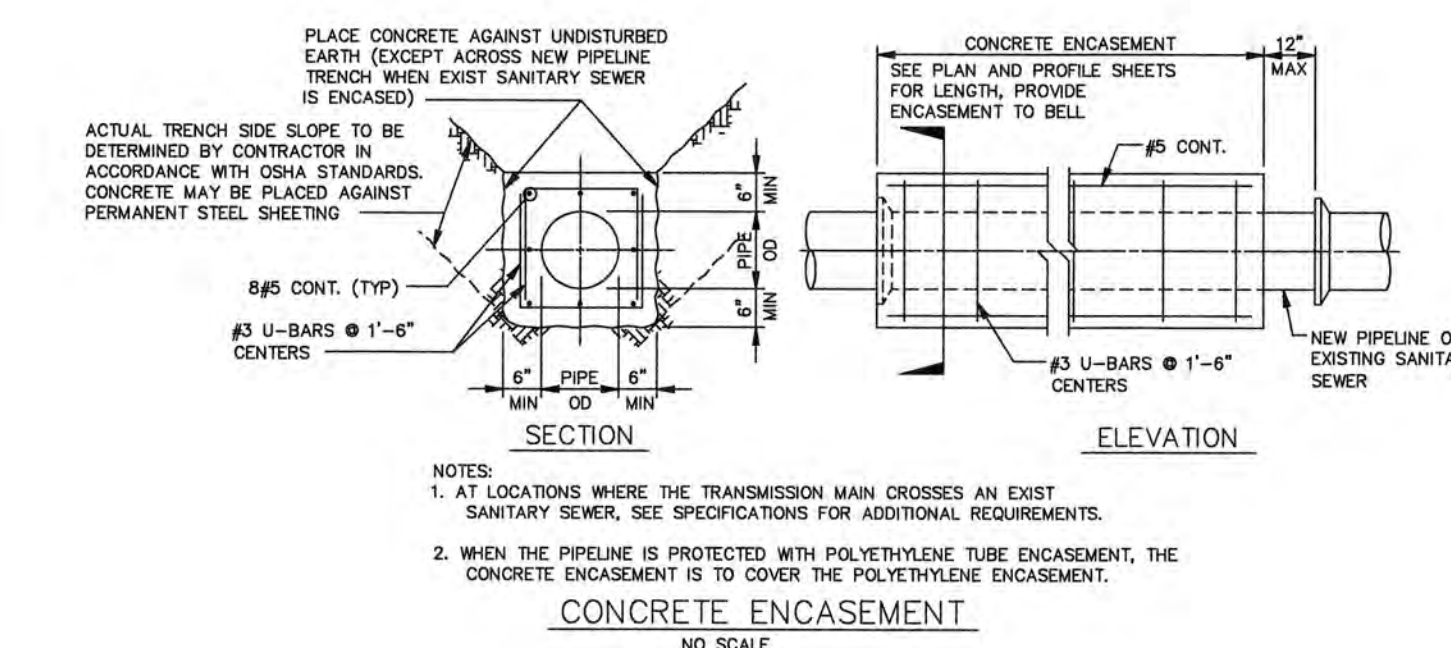


INTERNAL WATER PRESSURE 6" through 12"=200 psi
 INTERNAL WATER PRESSURE 16" through 30"=210 psi
 BEARING PRESSURE OF SOIL=2000 psi

BACKING BLOCKS
 NOT TO SCALE

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 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI

**BACKING BLOCK
 DETAILS AND LOCATIONS**

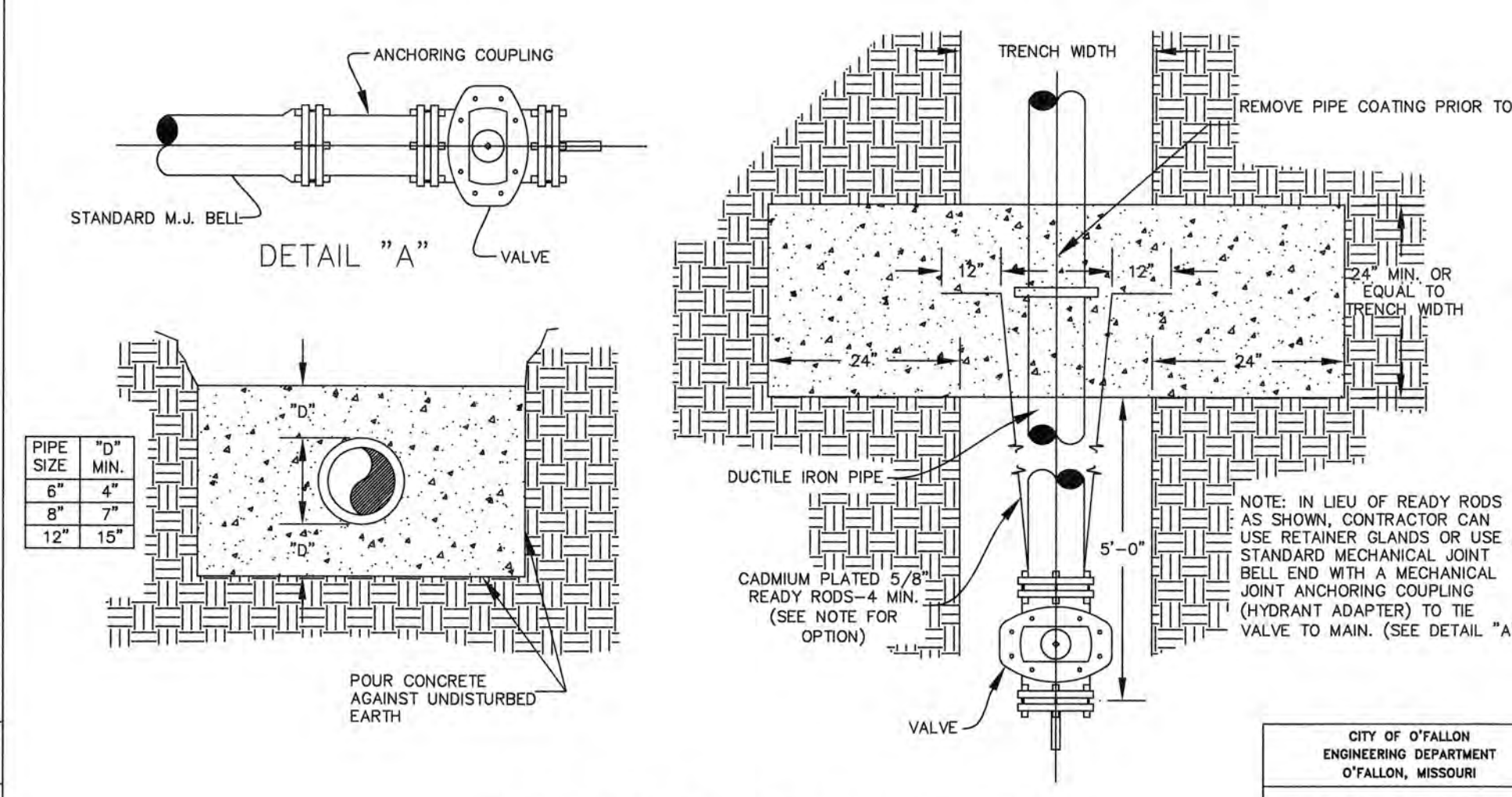


NOTES:
 1. AT LOCATIONS WHERE THE TRANSMISSION MAIN CROSSES AN EXISTING SANITARY SEWER, SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 2. WHEN THE PIPELINE IS PROTECTED WITH POLYETHYLENE TUBE ENCASEMENT, THE CONCRETE ENCASEMENT IS TO COVER THE POLYETHYLENE ENCASEMENT.

CONCRETE ENCASEMENT
 NO SCALE

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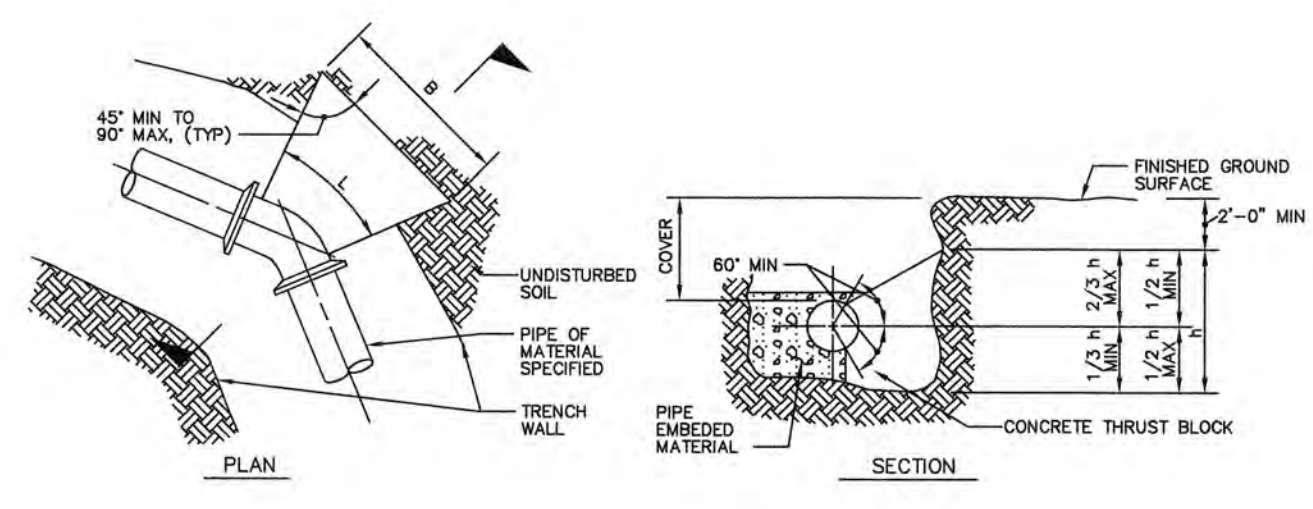
**CONCRETE ENCASEMENT
 DETAILS**



STRADDLE BLOCK DETAIL
 NOT TO SCALE

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**STRADDLE BLOCK
 DETAILS**

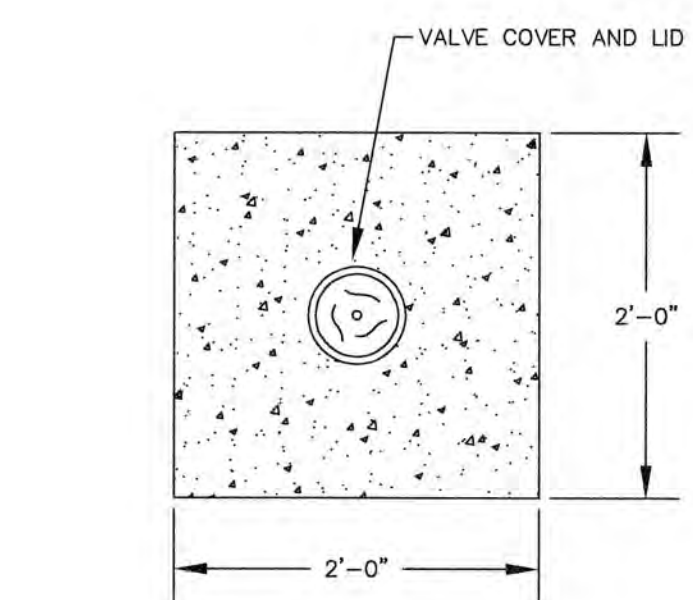


NOTES:
 1. AREA OF BLOCK, A = BxH, BLOCK AREAS ARE SHOWN ON GENERAL LAYOUT OR TABLE.
 2. B = h = $\sqrt{2A}$, EXCEPT WHERE TOP OF BLOCK IS WITHIN 2 FEET FROM GROUND SURFACE, THEN B = A/A.
 3. MINIMUM BLOCK DIMENSION (B & h) SHALL BE AT LEAST 30% OF PIPE OR 1 FOOT FOR PIPE 12" OR LESS.
 4. THE BOTTOM OF THE BLOCK SHALL EXTEND AT LEAST TO THE BOTTOM OF THE TRENCH IN ALL CASES.
 5. LIFTING 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 IN FIRE HYDRANT ASSEMBLY DETAIL.

CONCRETE THRUST BLOCKING
 NOT TO SCALE

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**CONCRETE THRUST
 BLOCKING DETAILS**

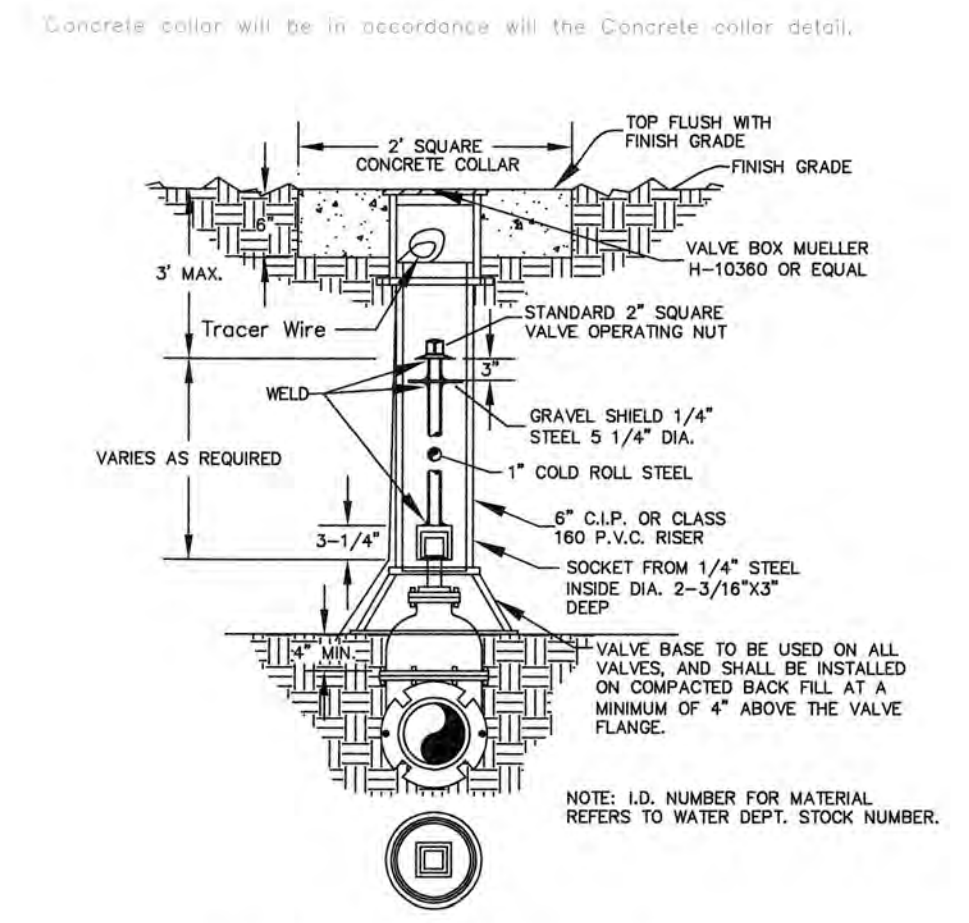


**TOP VIEW
 CONCRETE COLLAR**
 NOT TO SCALE

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

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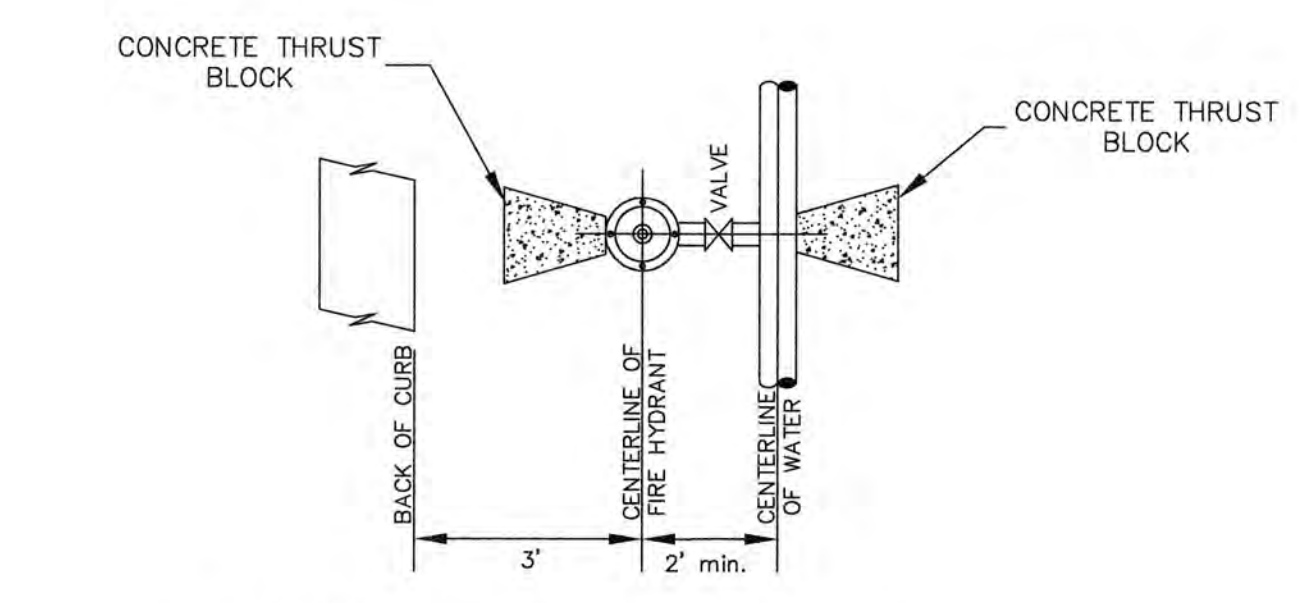
**CONCRETE
 COLLAR DETAIL**



WATER VALVE DETAIL
 NOT TO SCALE

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 ENGINEERING DEPARTMENT
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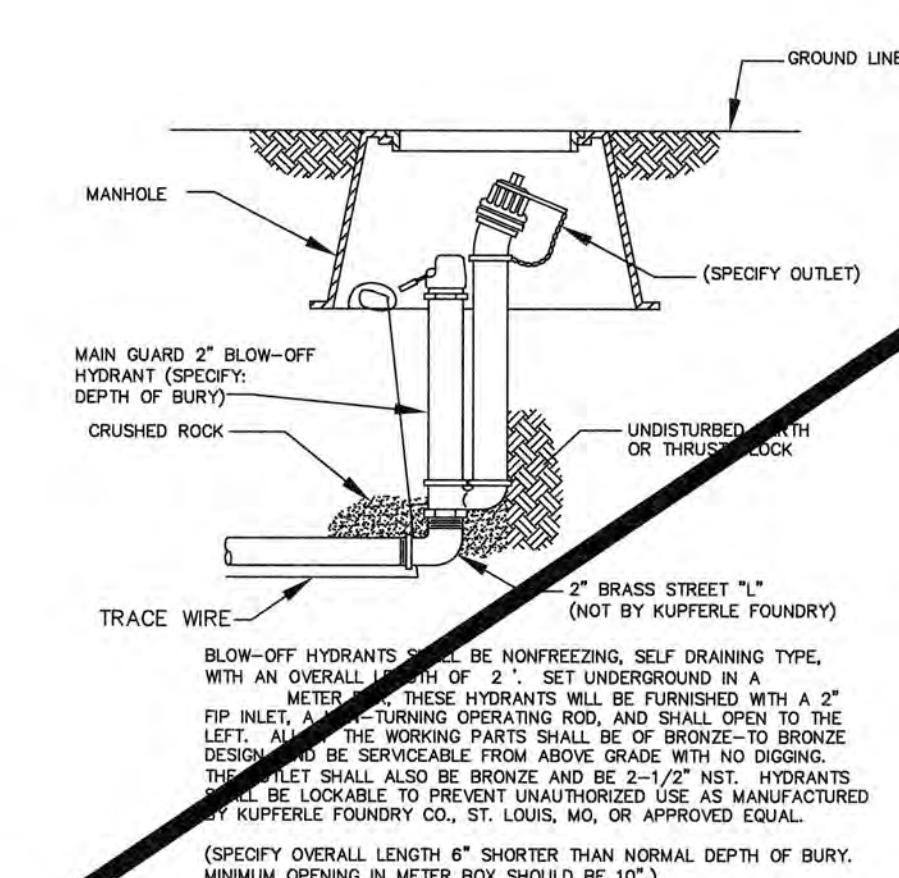
**WATER
 VALVE DETAIL**



**TYPICAL WATER MAIN AND FIRE
 HYDRANT LOCATIONS**
 NOT TO SCALE

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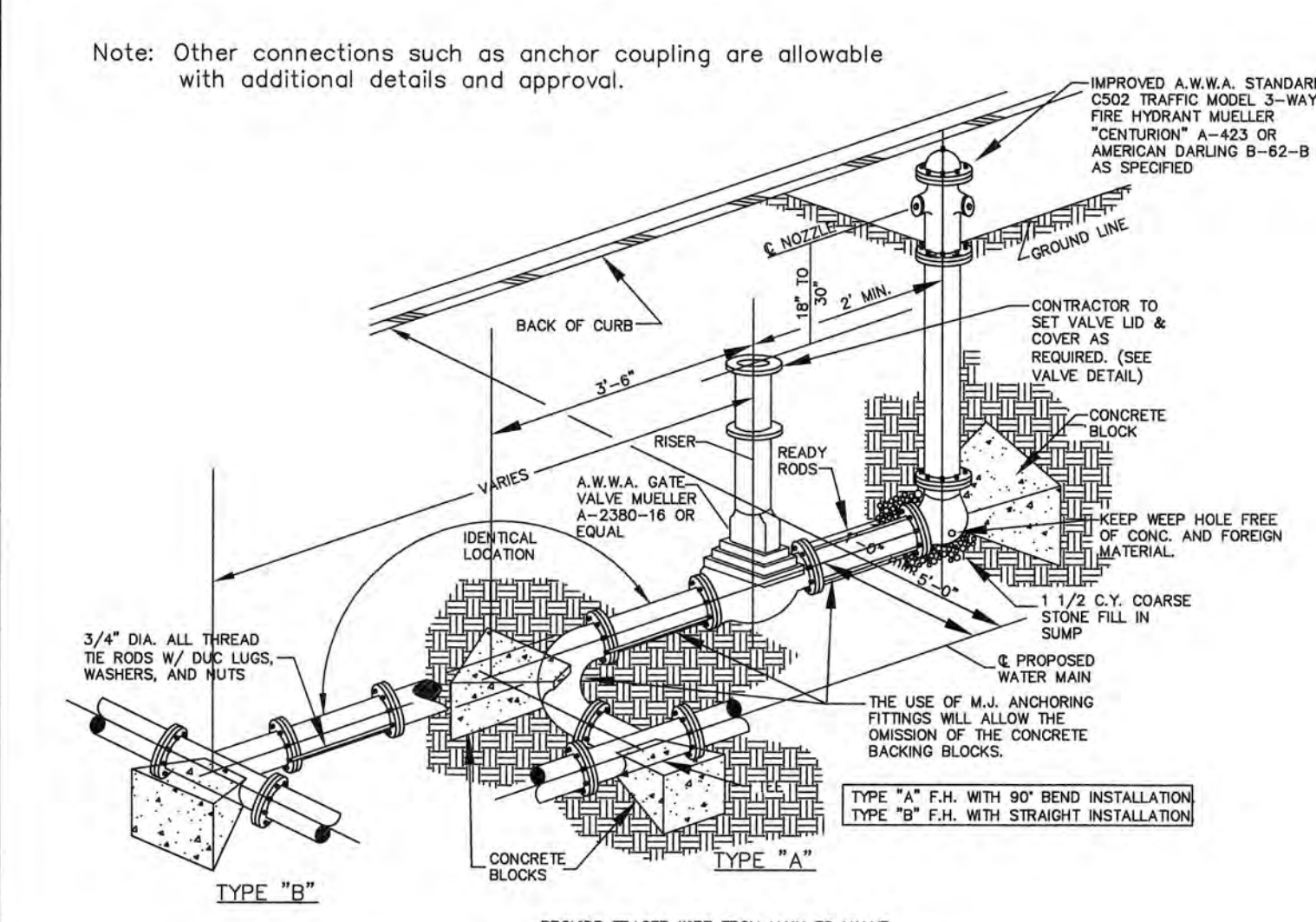
**WATER MAIN
 FIRE HYDRANT DETAIL**



BLOW-OFF HYDRANT
 NOT TO SCALE

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**BLOW-OFF
 HYDRANT DETAIL**



FIRE HYDRANT DETAIL
 NOT TO SCALE

CITY OF O'FALLON
 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI

**FIRE HYDRANT
 DETAILS**

PROJECT TITLE:
 Construction Plans for
 Tyke Town Development Centers
 8368 Mexico Road
 St. Peters, MO 63376

**ENGINEERING
 PLANNING
 SURVEYING**
 221 Point View Blvd.
 St. Charles, MO 63301
 636-462-5652
 FAX 636-462-1718



DISCLAIMER OF RESPONSIBILITY
 I hereby specify that the documents intended to be authorized by my seal are limited to this project, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

STATE OF MISSOURI
 LARRY D. WALKER
 CIVIL ENGINEER
 NUMBER 000055
 EXPIRES 05/07/18
 MISSOURI STATE CERTIFICATE OF AUTHORITY SURVEYING #000144

REVISIONS
04-16-18 CITY COMMENTS
05-03-18 REV. BASIN DETAILS
05-07-18 CITY COMMENTS

Developer / Owner:
 Tyke Town Properties, LLC
 P.O. Box 81
 Troy, Missouri 63379
 636-462-5380

CONSTRUCTION DETAILS

P+Z No. 17-012955
Approval Date: 02-01-18
City No. #

Page No.
 12 of 15

ENGINEER SEAL DOES NOT APPLY TO CITY OF O'FALLON DETAILS