

LEGEND
 I.D. - NOMINAL PIPE SIZE
 O.D. - OUTSIDE DIAMETER OF PIPE
 H - COVER ABOVE TOP OF PIPE
 A - EMBEDDED BELOW PIPE (SEE TABLE)

TABLE EMBEDDED DEPTH BELOW PIPE

CLASS	MIN. SOIL	MIN. ROCK
27" & SMALLER	3"	6"

GRANULAR BEDDING SHALL BE CRUSHED ROCK OR PEA GRAVEL WITH NOT LESS THAN 80% PASSING 1/2" (80% PASSING 3/4" FOR 30" AND LARGER PIPES) AND NOT LESS THAN 85% RETAINING A #4. TO BE PLACED IN NOT MORE THAN 6" LAYERS AND COMPACTED. SLOPING WITH A SHOVEL OR VIBRATING.

FLAT BOTTOM SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL, AND STONES. PLACED IN UNIFORM LAYERS NOT MORE THAN 6" THICK, COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. D1557, OR GRADED AGGREGATE. GRANULAR BACK FILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF COMPACTED BACK FILL.

ROCK BEDDING SHALL BE FINELY DIVIDED JOB EXCAVATED MATERIAL FREE FROM DEBRIS, ORGANIC MATERIAL, AND STONES. HAND PLACED IN UNIFORM LAYERS NOT MORE THAN 6" THICK AND TAMPED AROUND CONDUIT PIPE. GRANULAR BACK FILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF TAMPED BACK FILL.

TRENCH BACK FILL SHALL BE AS REQUIRED IN THE "LAYING AND BACK FILL" SECTION OF THE DETAILED SPECIFICATIONS.

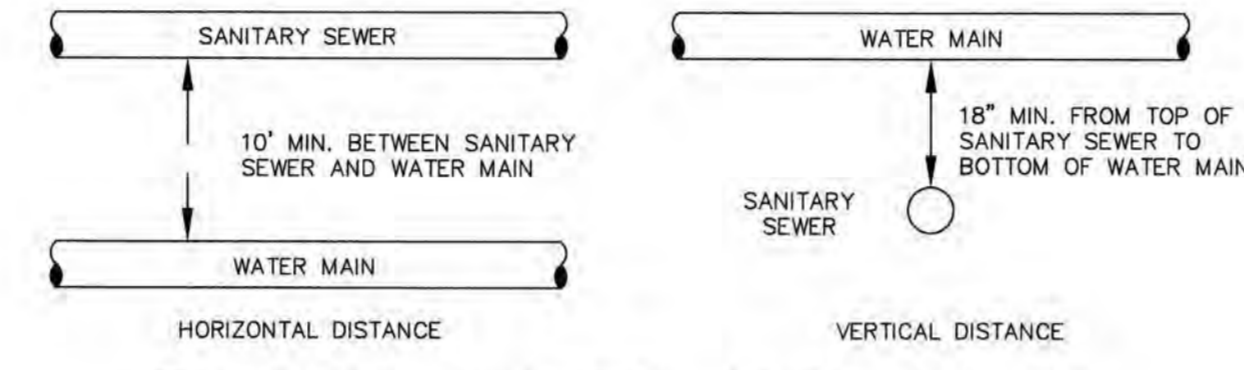
EMBED THE TYPE OF EMBEDDED TO BE USED SHALL BE AS SPECIFIED IN THE PLANS AND SPECIFICATIONS.

TRACER WIRE REQUIRED ON ALL WATER MAINS

WATER MAIN EMBEDDED
 NOT TO SCALE

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

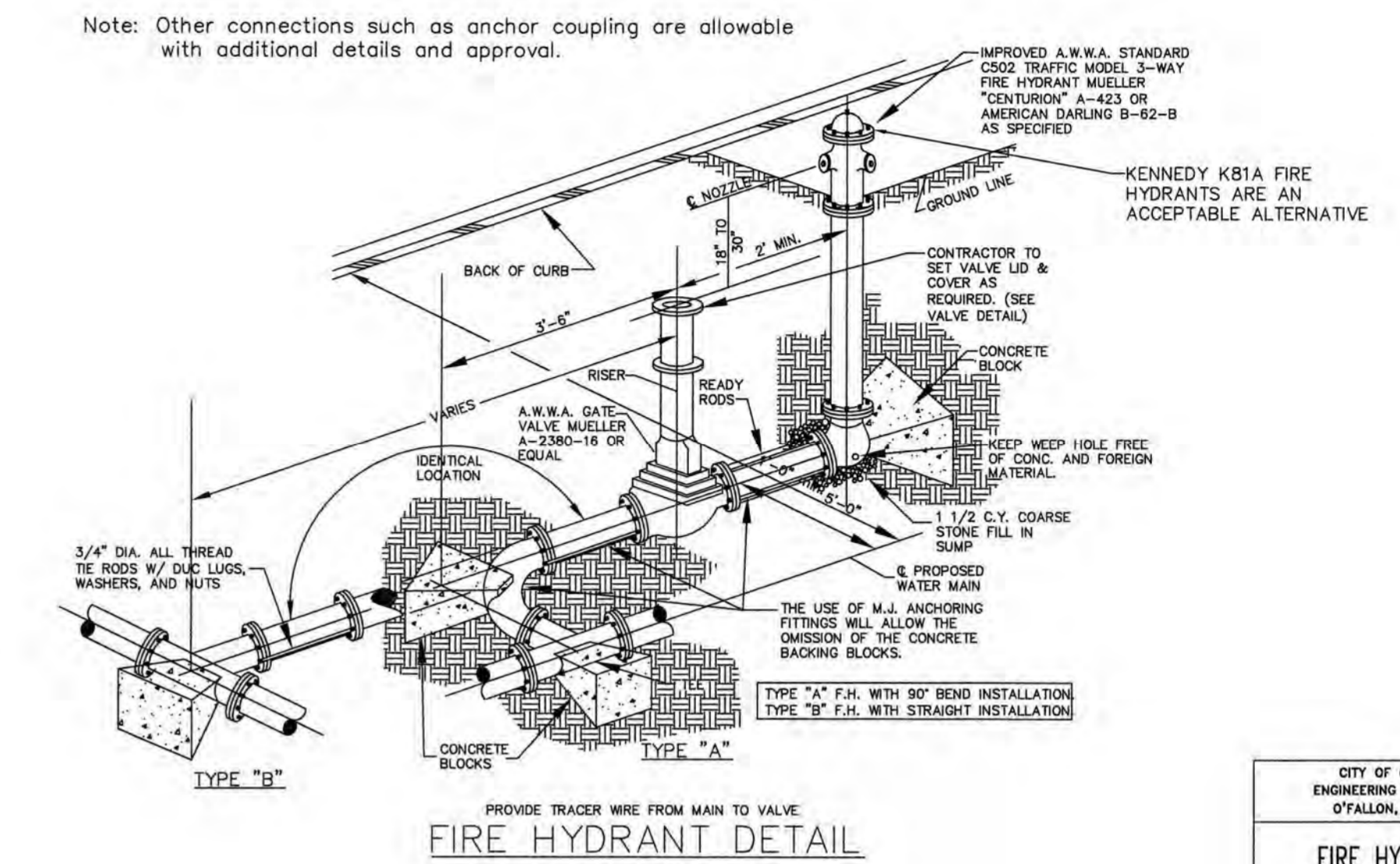
WATER MAIN EMBEDDED



TYPICAL WATER AND SEWER SEPARATION
 NOT TO SCALE

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 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI

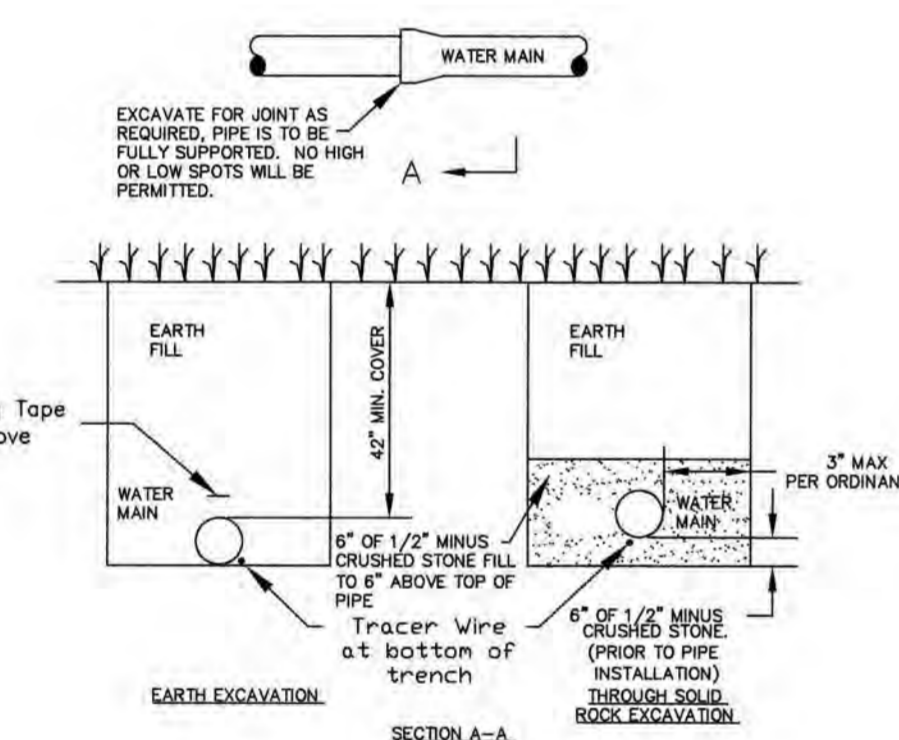
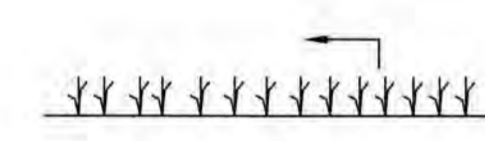
WATER AND SEWER SEPARATION DETAIL



FIRE HYDRANT DETAIL
 NOT TO SCALE

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 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI

FIRE HYDRANT DETAILS

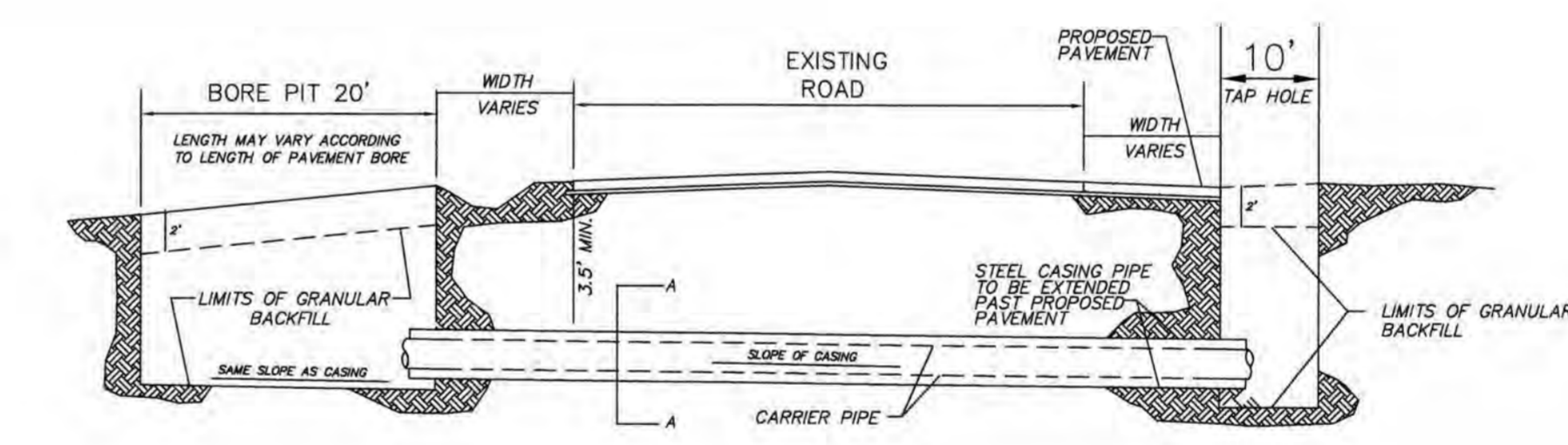


TYPICAL WATER MAIN INSTALLATION DETAILS
 NOT TO SCALE

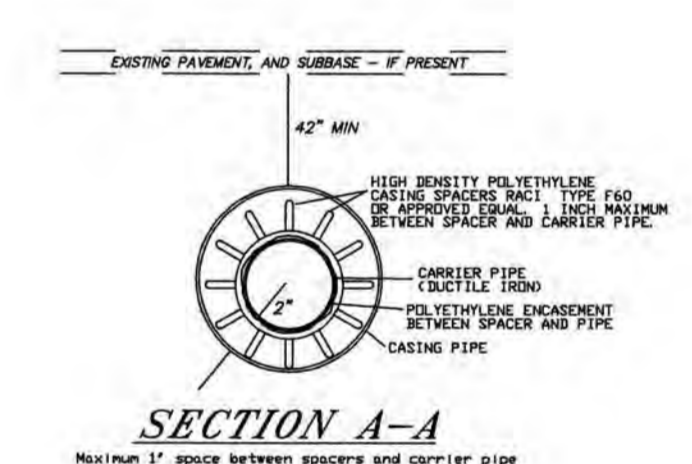
CITY OF O'FALLON
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 O'FALLON, MISSOURI

WATER MAIN INSTALLATION DETAIL

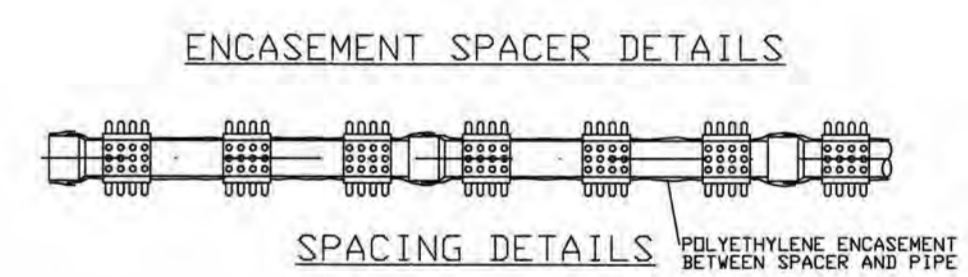
Ductile Iron Pipe installation shall follow the Ductile Iron Research Association (DIPRA) guide line.
 The Installation of PVC Pipe shall follow the Uni-Bell PVC Pipe Association Handbook of PVC Design and Construction.



BORE DETAIL



SECTION A-A
 MAXIMUM 1' SPACE BETWEEN SPACERS AND CARRIER PIPE



SPACING DETAILS

- BORING NOTES**
- DO NOT SCALE DRAWING. FOLLOW DIMENSIONS.
 - INSTALLATION OF THE CASING AND CARRIER PIPES SHALL MEET THE REQUIREMENTS FOR THE CITY OF O'FALLON SPECIFICATIONS.
 - ALL JOINTS IN THE CASING PIPE SHALL BE WELDED.
 - THE PIPE TO BE PLACED IN THE BORE HOLE SHALL BE CAST-IRON PIPE EXCEPT AS REQUIRED ON THE PLANS.
 - STEEL CASING PIPE USED IN THE INSTALLATION OF WATER OR SEWER LINE AND CONDUITS SHALL HAVE A MINIMUM YIELD STRENGTH OF 35,000 P.S.I.
 - CARRIER PIPE SHALL BE 8" DIA. D.I.P.
 - CASING PIPE SHALL BE 16" DIA. STEEL.
 - NOTE: EXISTING FACILITIES ARE TO REMAIN IN USE AT ALL TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SERVICE LINES AND UTILITIES PRIOR TO CONSTRUCTION.
 - RESTRAINING JOINTS SHALL BE USED ON THE CARRIER PIPE.
 - DESIGNER SHALL SUBMIT CARRIER PIPE AND CHASING PIPE SIZE AND COMBINATION FOR REVIEW AND APPROVAL.

City of O'Fallon Standard Subdivision Notes and Details - June 2010

Revised Boring Detail
APPROVED
 11/28/2017

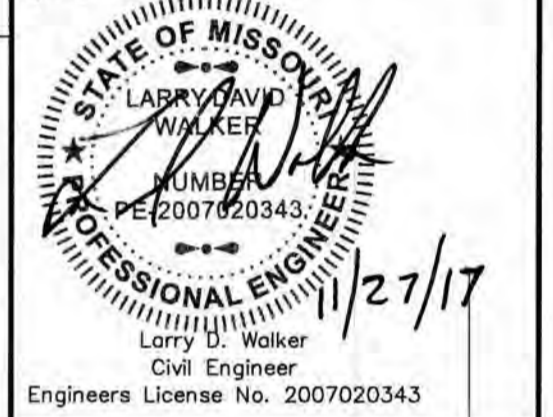
ENGINEER SEAL DOES NOT APPLY TO CITY OF O'FALLON DETAILS

PROJECT TITLE:
 SCCAD BASE 18

ENGINEERING SURVEYING
 221 Point West Blvd.
 St. Charles, MO 63301
 636-928-5662
 FAX 928-1718



DISCLAIMER OF RESPONSIBILITY
 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 other than those authenticated by my seal.



REVISIONS

NO.	DATE	REVISION
8-15-17		CITY COMMENTS
11-27-17		BORE DETAIL

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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Bax Project #95-7632G

WATER DETAILS