

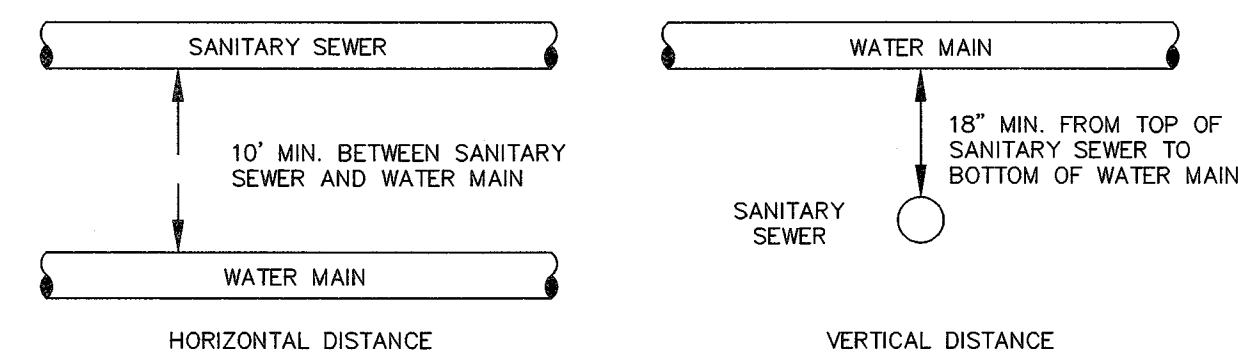
LEGEND:
 I.D. - NOMINAL PIPE SIZE
 O.D. - OUTSIDE DIAMETER OF PIPE
 H - COVER ABOVE TOP OF PIPE
 A - EMBEDDED BELOW PIPE (SEE TABLE)

CLASS	MIN. SOIL		MIN. ROCK	
	1/2" & SMALLER	3"	3"	6"
CLASS B				
CLASS C				
CLASS D				

FLAT BOTTOM BEDDING WITH BELL WASHED AND HAND-PAKED
 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 80% RETAINING A #4 TO BE PLACED IN NOT MORE THAN 6" LAYERS AND COMPACTED USING WITH A SHOVEL OR VIBRATING.
 COMPACTED BACK FILL 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. TEST, OR GRADED AGGREGATE. GRANULAR BACK FILL MATERIAL MAY BE SUBSTITUTED FOR ALL OR PART OF COMPACTED BACK FILL.
 TAMPED BACK FILL 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.
 IRREGULAR BACK FILL SHALL BE AS REQUIRED IN THE "LAYING AND BACK FILL" SECTION OF THE DETAILED SPECIFICATIONS.
 EMBEDDED TYPE OF EMBEDMENT 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

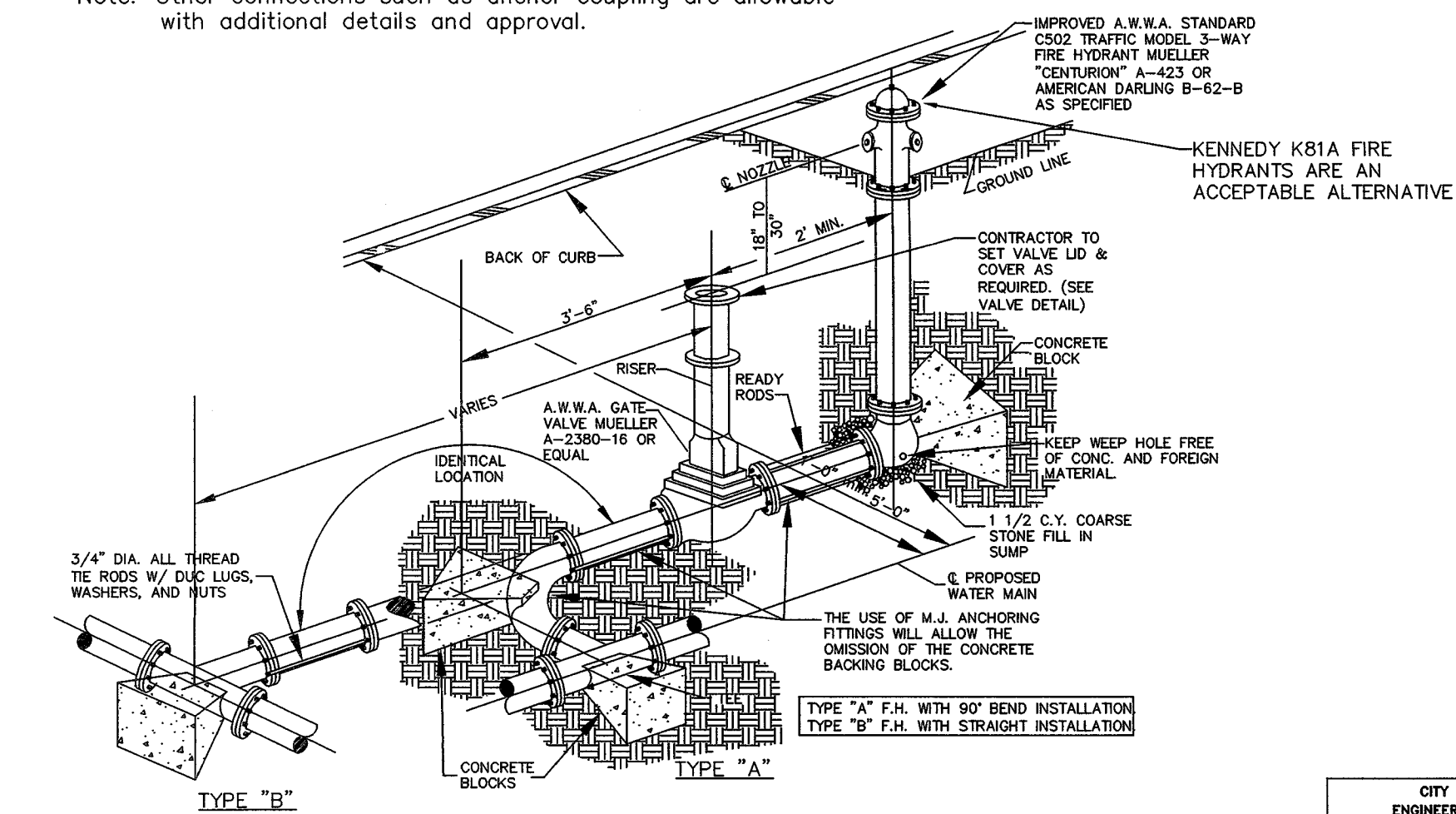
CITY OF O'FALLON
 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI
WATER MAIN EMBEDDED



TYPICAL WATER AND SEWER SEPARATION
 NOT TO SCALE

CITY OF O'FALLON
 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI
WATER AND SEWER SEPARATION DETAIL

Note: Other connections such as anchor coupling are allowable with additional details and approval.

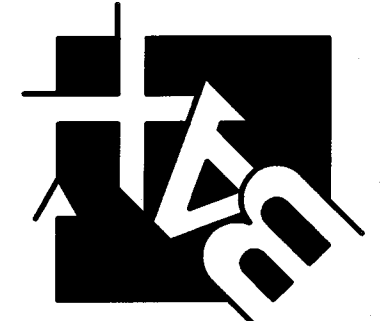


FIRE HYDRANT DETAIL
 NOT TO SCALE

CITY OF O'FALLON
 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI
FIRE HYDRANT DETAILS

PROJECT TITLE:
 TAUC PROPERTIES
 O'FALLON MAIN
 507 S. MAIN ST.

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



DISCLAIMER OF RESPONSIBILITY:
 I hereby specify that the documents intended to be authenticated by my seal are limited to this sheet, 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.

REFERENCE DRAWINGS ONLY

REVISIONS

NO.	DESCRIPTION

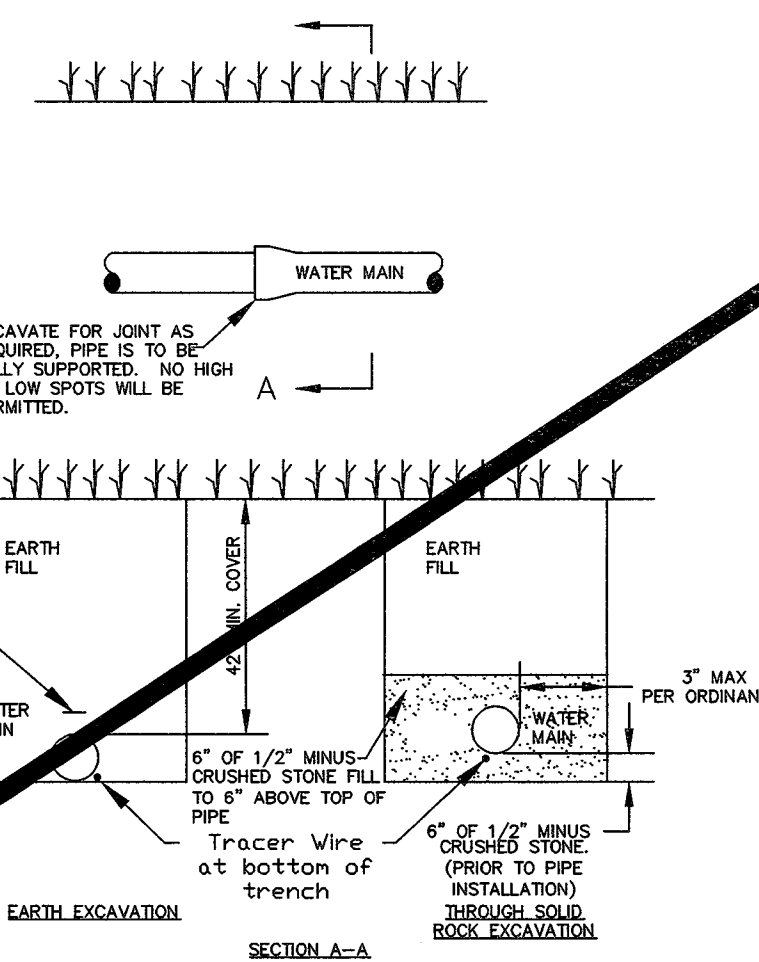
Developer / Owner:
 DR. MATT BRUCKEL
 TAUC PROPERTIES LLC
 9556 MANCHESTER ROAD
 ST. LOUIS, MO 63119

WATER DETAILS

P+Z No.
 19-16 (approved 7-7-16)
City No.
 16-000028

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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.



TYPICAL WATER MAIN INSTALLATION DETAILS
 NOT TO SCALE

CITY OF O'FALLON
 ENGINEERING DEPARTMENT
 O'FALLON, MISSOURI
WATER MAIN INSTALLATION DETAIL