

Drawing name: V:\14-2405 Shady Creek Addition\Drawings\Improvements\2405 MP Details.dwg Plotted on: Dec 02, 2020 - 10:58am Plotted by: smolitor

ISSUE	DATE / REMARKS
1	5-22-2020 Initial Submittal
2	7-14-2020 City Comment Revisions
3	8-13-2020 City Comment Revisions
4	9-01-2020 City Comment Revisions
5	12-02-2020 City Approval

PROJECT TITLE
**SHADY CREEK
ADDITION**

OFALLON, MISSOURI

THE **STERLING** CO.
ENGINEERS & SURVEYORS
5055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-8944
www.sterling-eng-survey.com
Corporate Certificate of Authority #001348



Date: 12/02/2020
RODNEY ARNOLD
LICENSE # PE-2002016612
Professional Engineer

Lombardo Homes of St. Louis, LLC
2299 Technology Drive, Suite 150
Ofallon, Missouri 63368
Ph. (636) 265-2710
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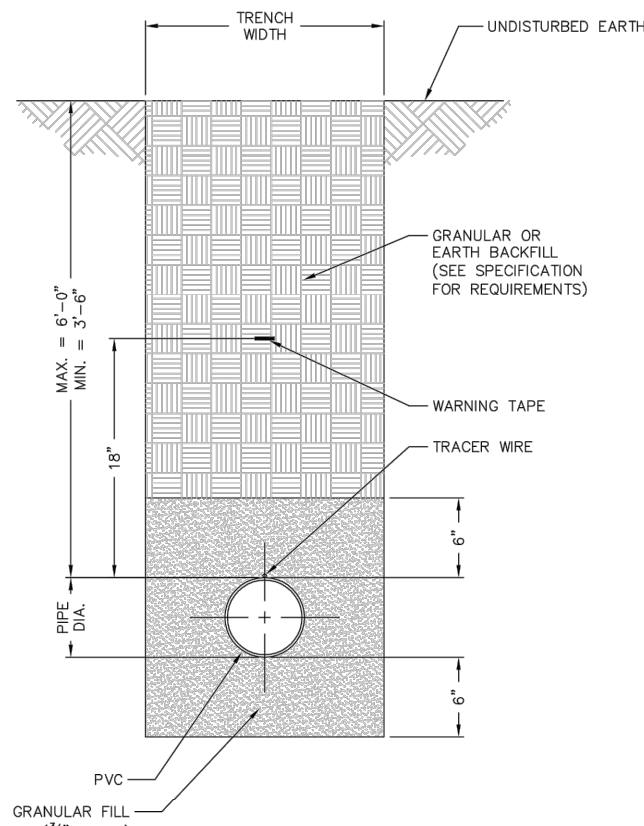
WATER MAIN DETAILS

P+Z No. P&Z NO
City No.
Date: 12/02/2020
Job No. 14-12-405
Page No.

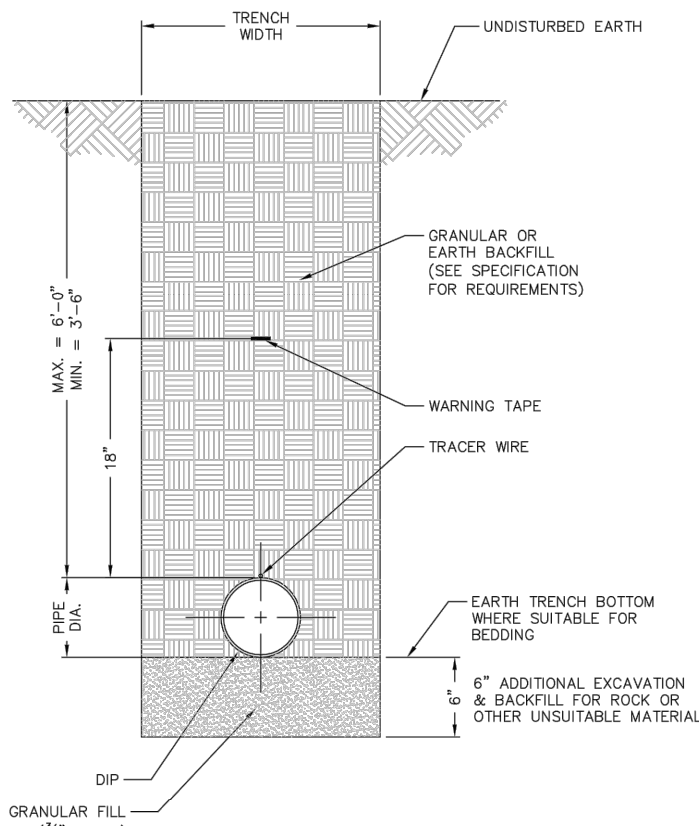
DTL-9

IMP

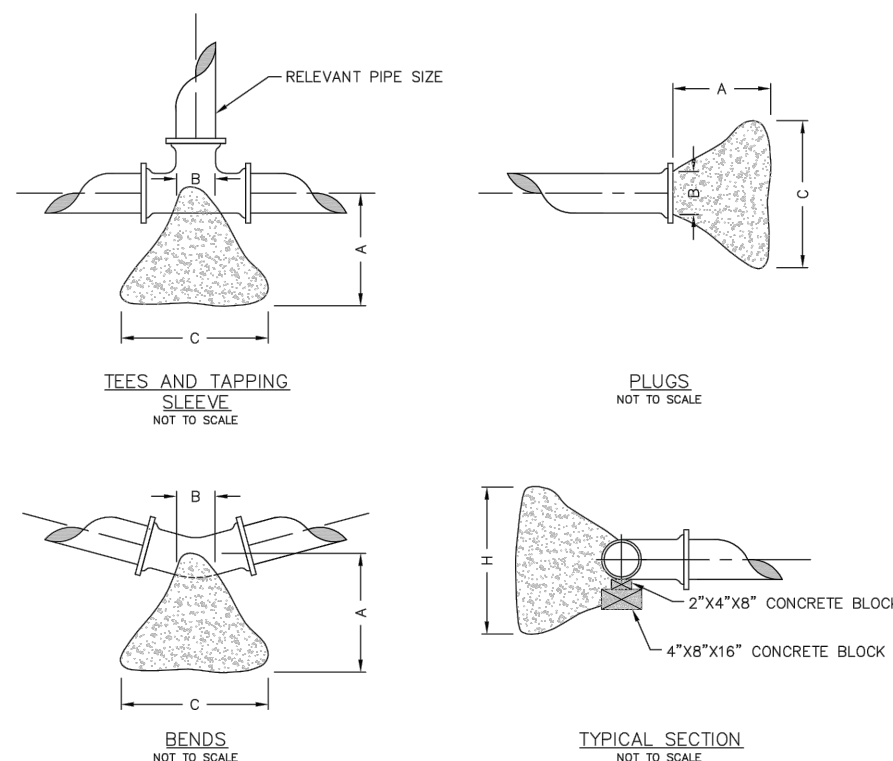
"Final Plan" Approval Date: June 4, 2020 (19-002801)



NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL TRENCH SECTION FOR PVC PIPE
NOT TO SCALE
DETAIL "A"
PAGE 1 OF 2

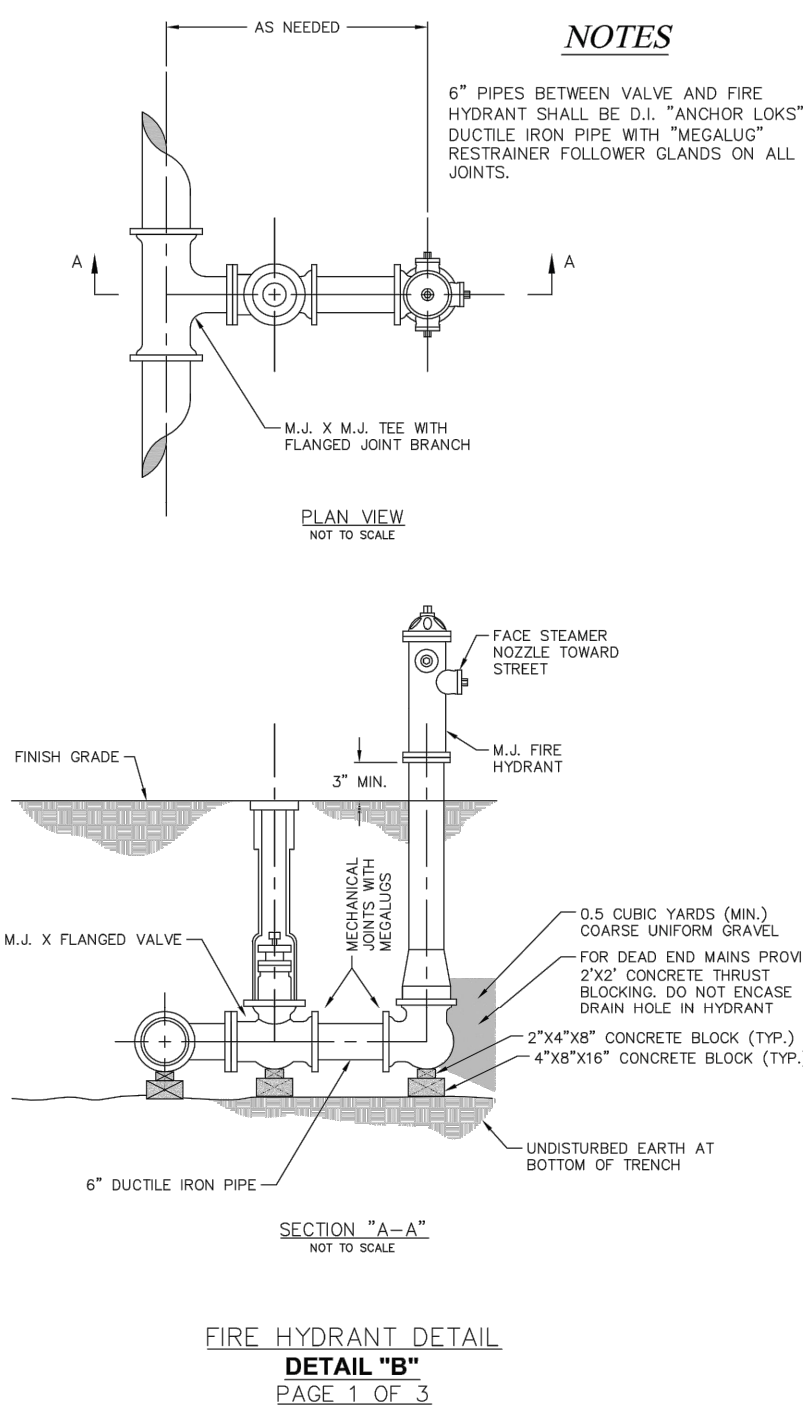


NOTES
1) POLYWRAP REQUIRED FOR DUCTILE IRON PIPE
2) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL TRENCH SECTION FOR DUCTILE IRON PIPE
NOT TO SCALE
DETAIL "A"
PAGE 2 OF 2

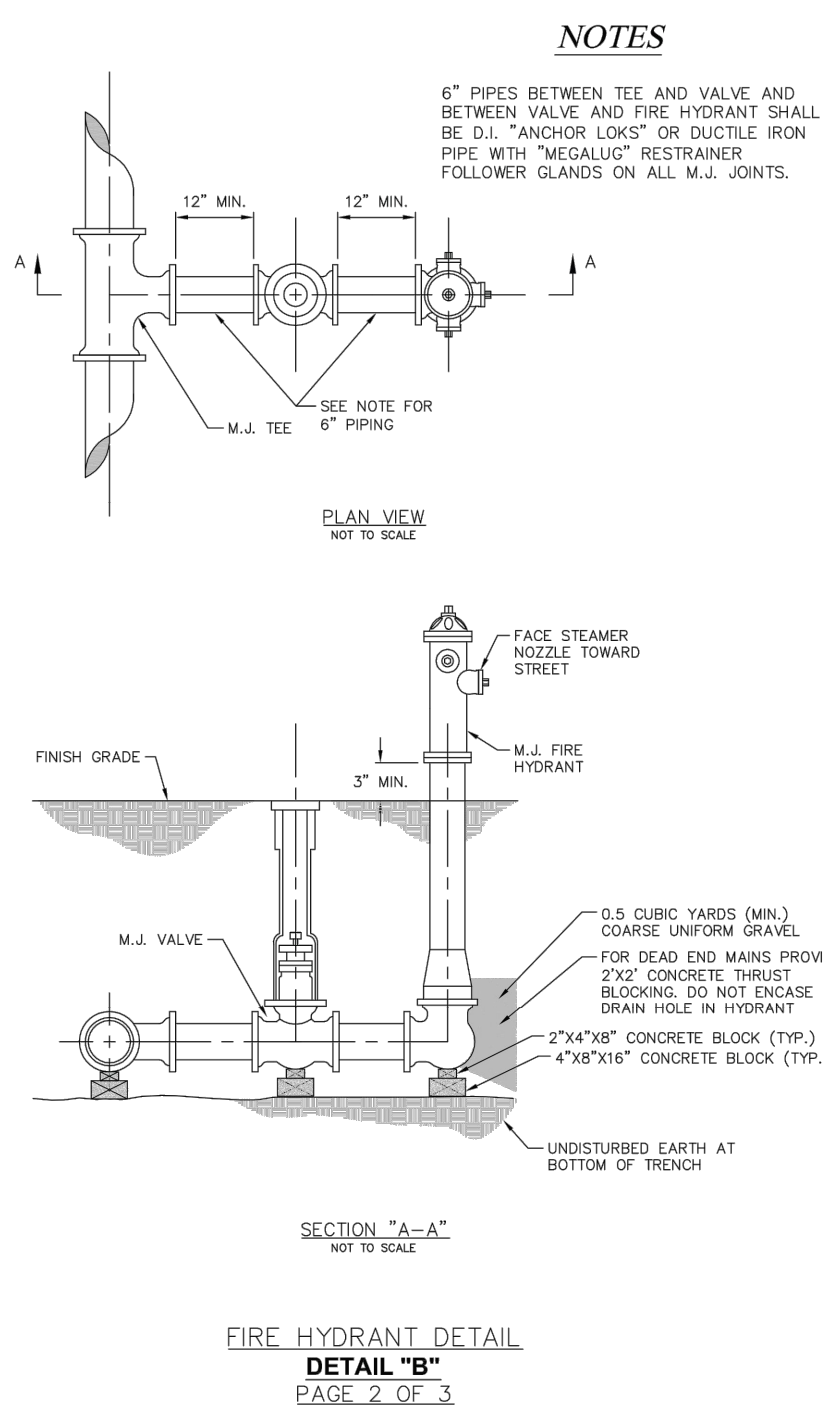


THRUST BLOCK DIMENSIONS - INCHES											
PIPE DIA.	ALL FTGS.	TEE PLUG TAPPING		90 DEGREE BEND		45 DEGREE BEND		22-1/2 BEND		11-1/4 BEND	
		A	B	C	H	C	H	C	H	C	H
4	14	4	24	12	26	15	18	12	12	12	12
6	16	6	36	18	36	24	30	18	24	12	12
8	20	8	36	30	42	36	36	24	24	18	12
10	20	10	48	36	66	36	36	28	24	18	18
12	24	12	68	36	82	42	52	36	40	24	28

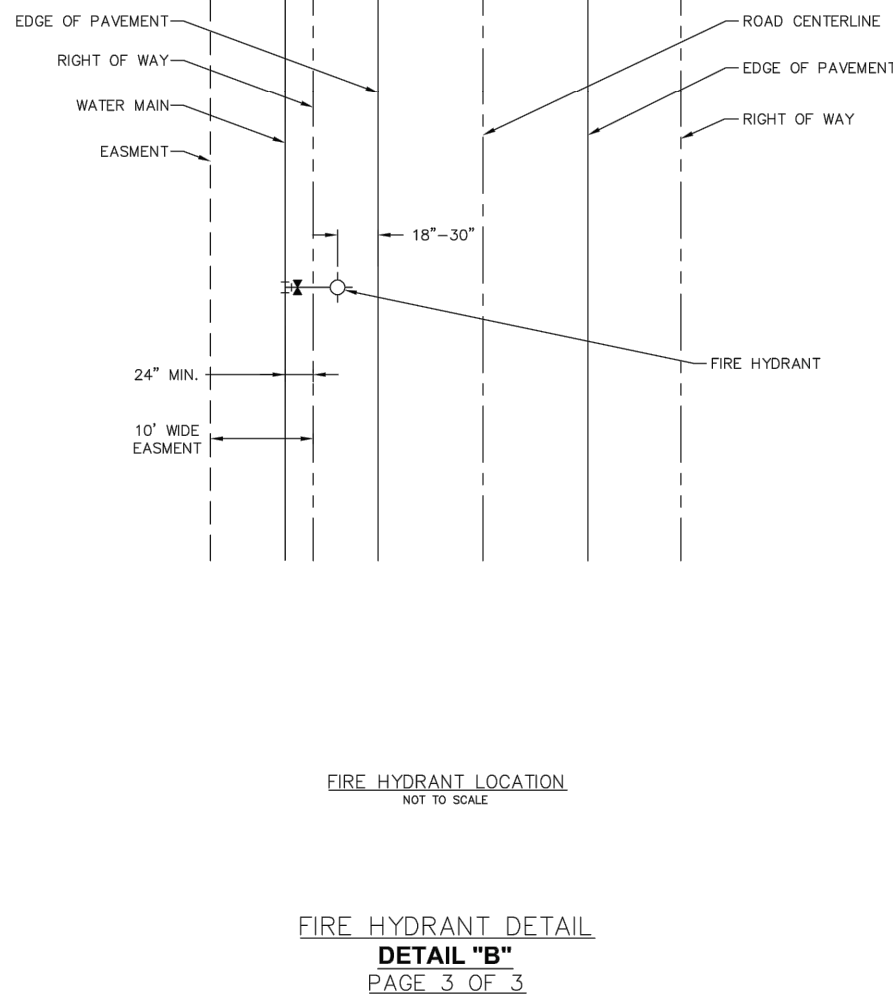
NOTE
FOR FITTINGS LARGER THAN 12", SPECIAL RESTRAINT DESIGNS ARE REQUIRED.
HORIZONTAL THRUST BLOCKING
DETAIL "C"



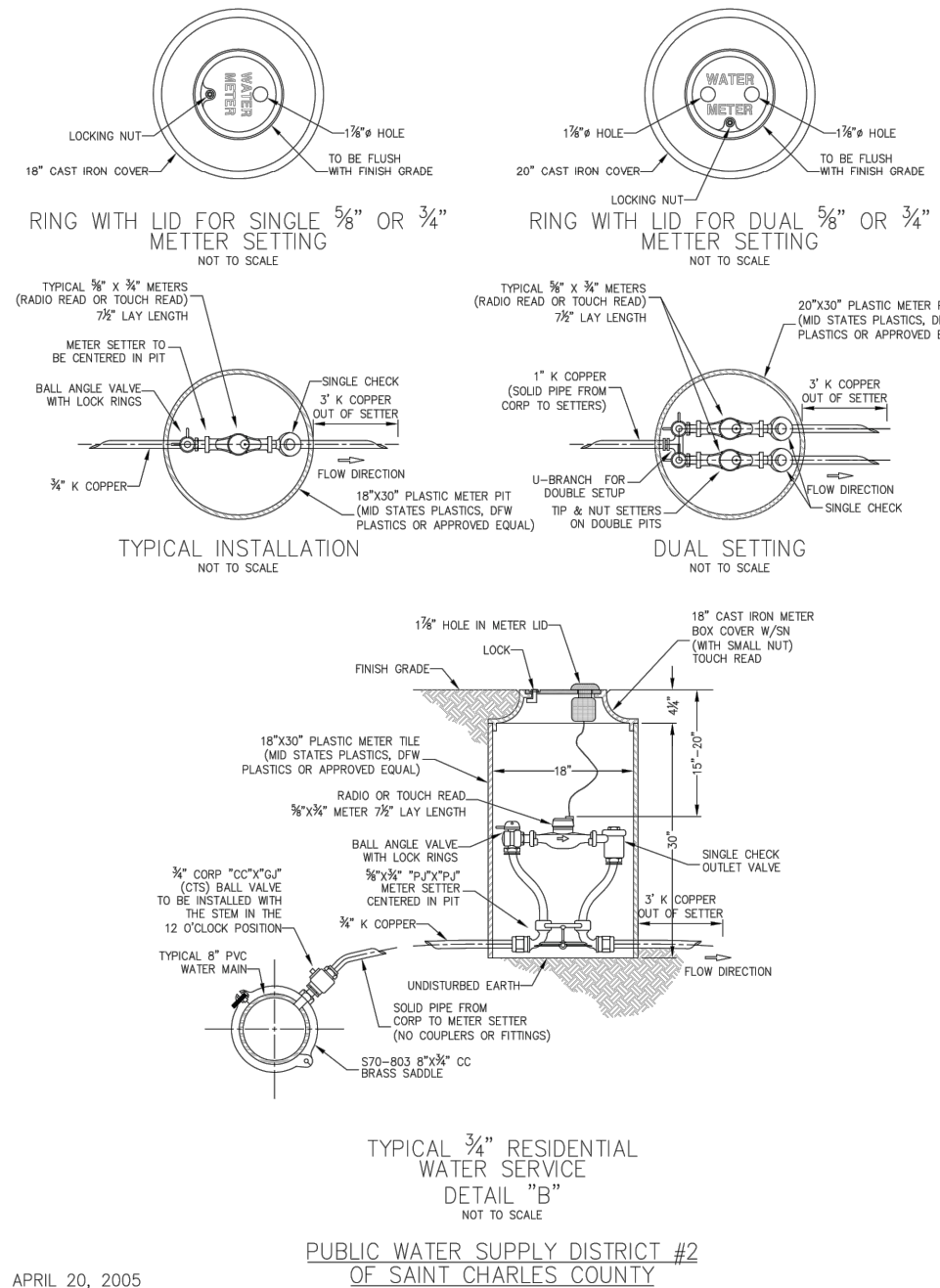
FIRE HYDRANT DETAIL
DETAIL "B"
PAGE 1 OF 3



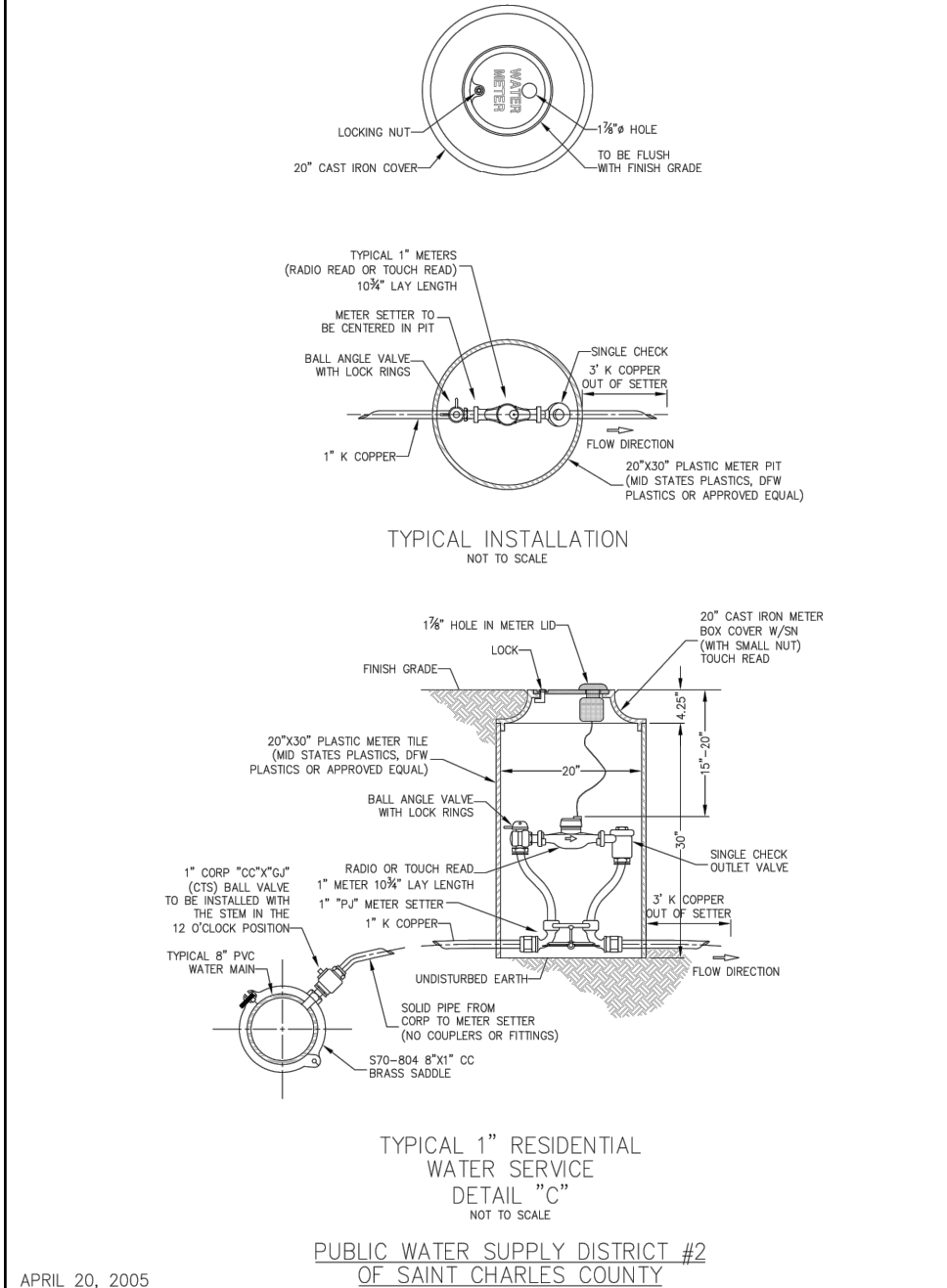
FIRE HYDRANT DETAIL
DETAIL "B"
PAGE 2 OF 3



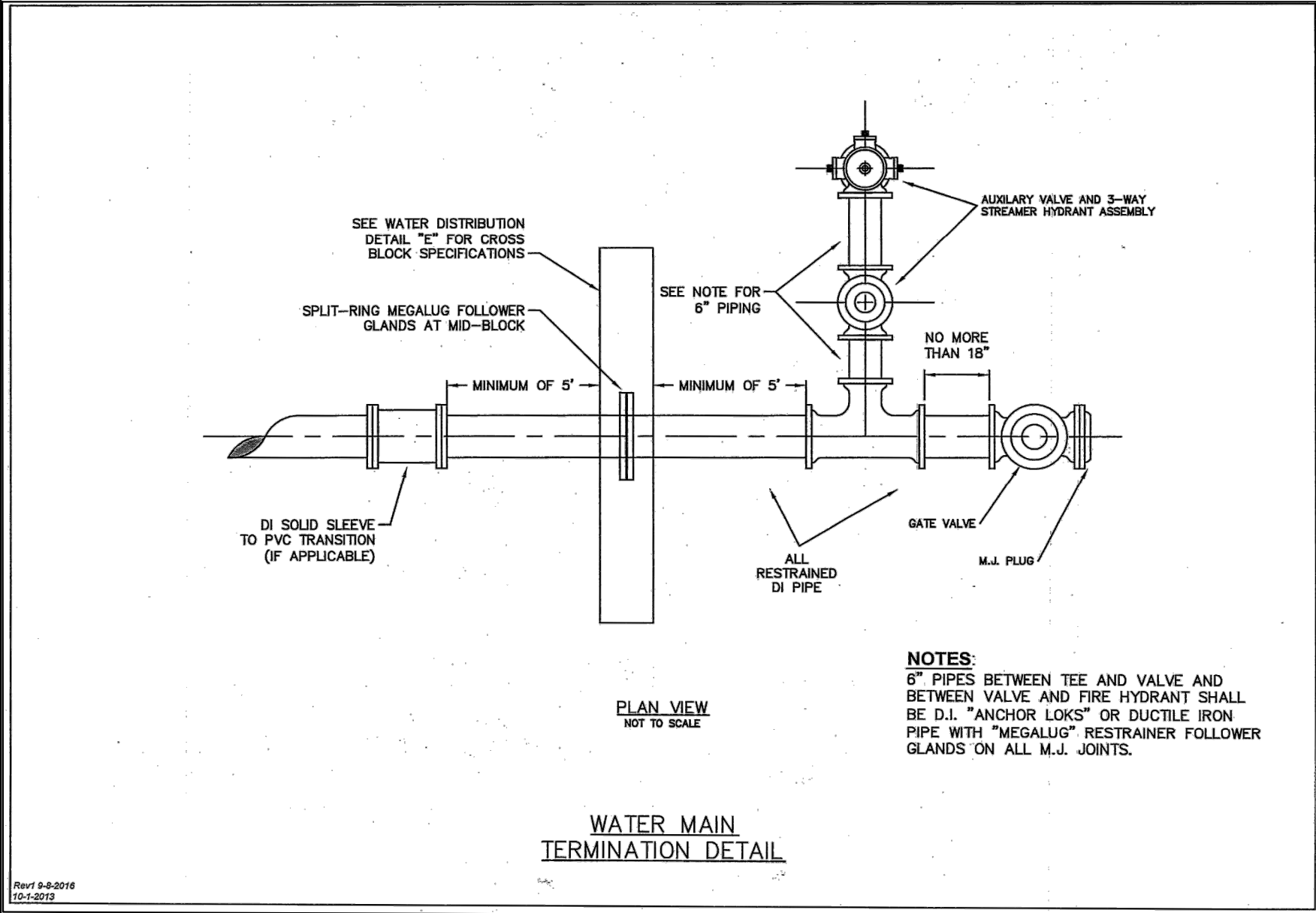
FIRE HYDRANT LOCATION
DETAIL "B"
PAGE 3 OF 3



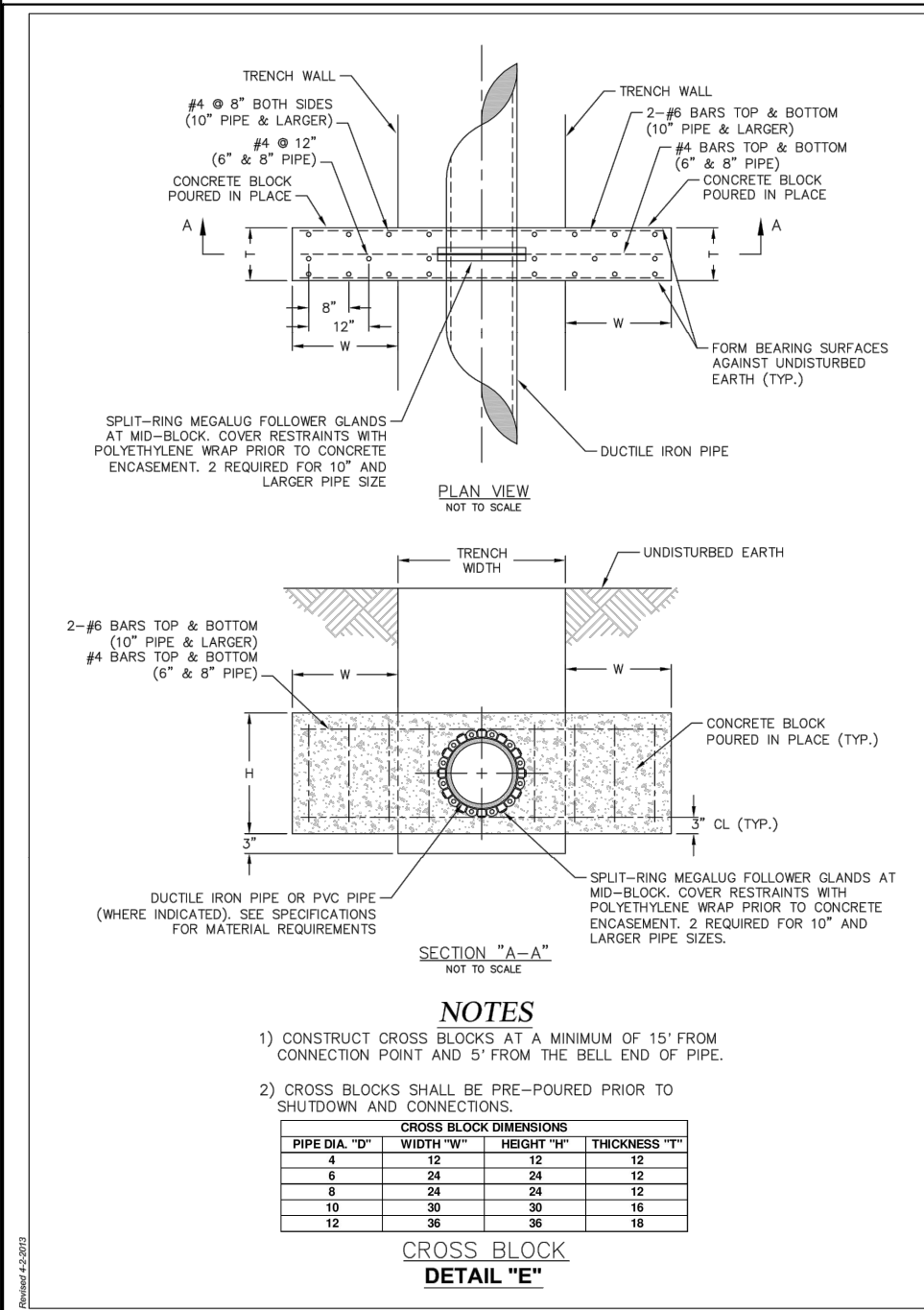
TYPICAL 3/4\" RESIDENTIAL WATER SERVICE
DETAIL "C"
NOT TO SCALE
PUBLIC WATER SUPPLY DISTRICT #2 OF SAINT CHARLES COUNTY



TYPICAL 1\" RESIDENTIAL WATER SERVICE
DETAIL "C"
NOT TO SCALE
PUBLIC WATER SUPPLY DISTRICT #2 OF SAINT CHARLES COUNTY



WATER MAIN TERMINATION
DETAIL "C"
NOT TO SCALE



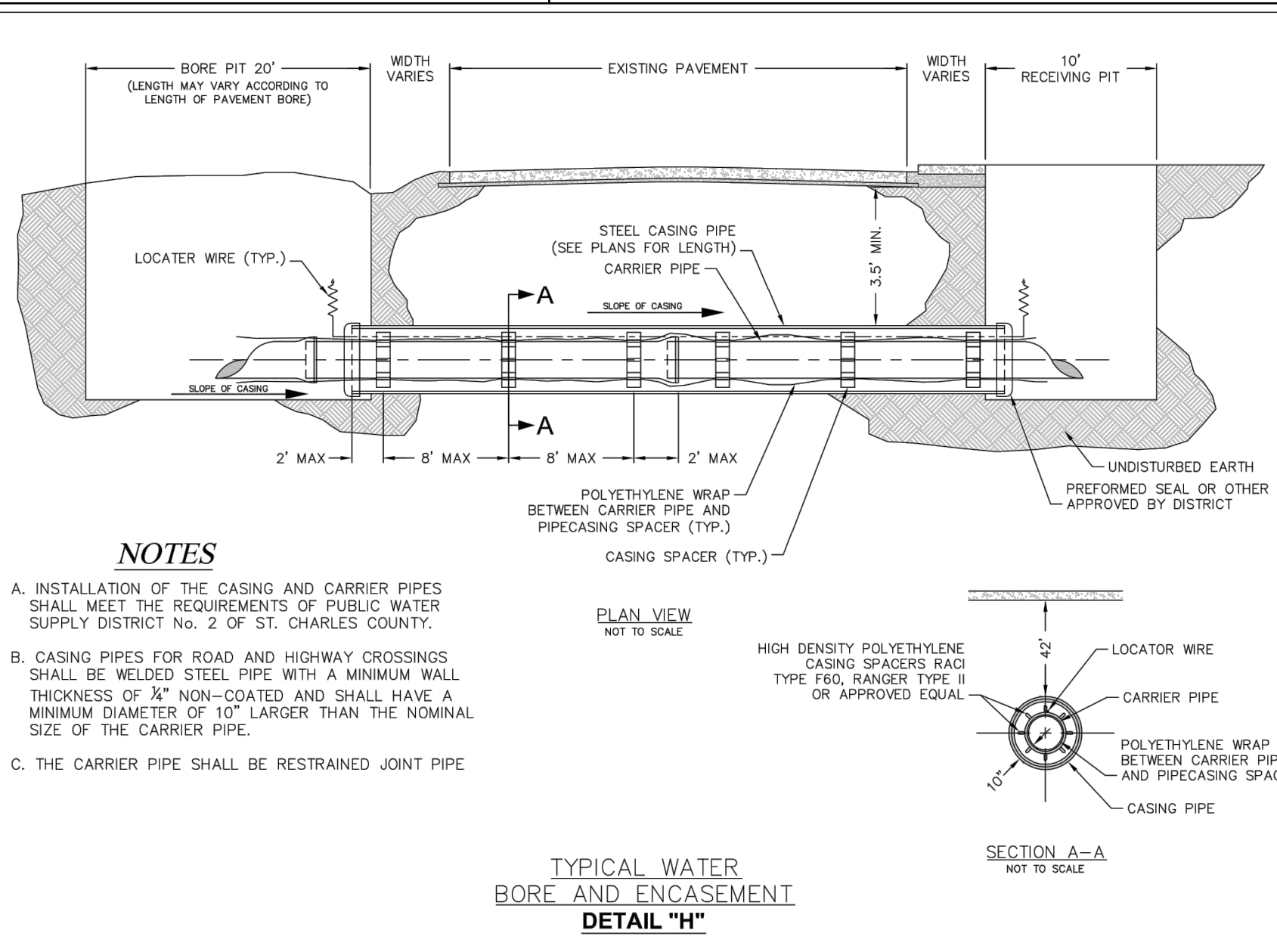
NOTES

- 1) CONSTRUCT CROSS BLOCKS AT A MINIMUM OF 10' FROM CONNECTION POINT AND 5' FROM THE HILL END OF PIPE.
- 2) CROSS BLOCKS SHALL BE PRE-POURED PRIOR TO SHUTDOWN AND CONNECTIONS.

CROSS BLOCK DIMENSIONS

PIPE DIA. "D"	WIDTH "W"	HEIGHT "H"	THICKNESS "T"
4	12	12	12
6	18	18	12
8	24	24	12
10	30	30	12
12	36	36	12

CROSS BLOCK
DETAIL "E"



TYPICAL WATER BORE AND ENCASEMENT
DETAIL "H"