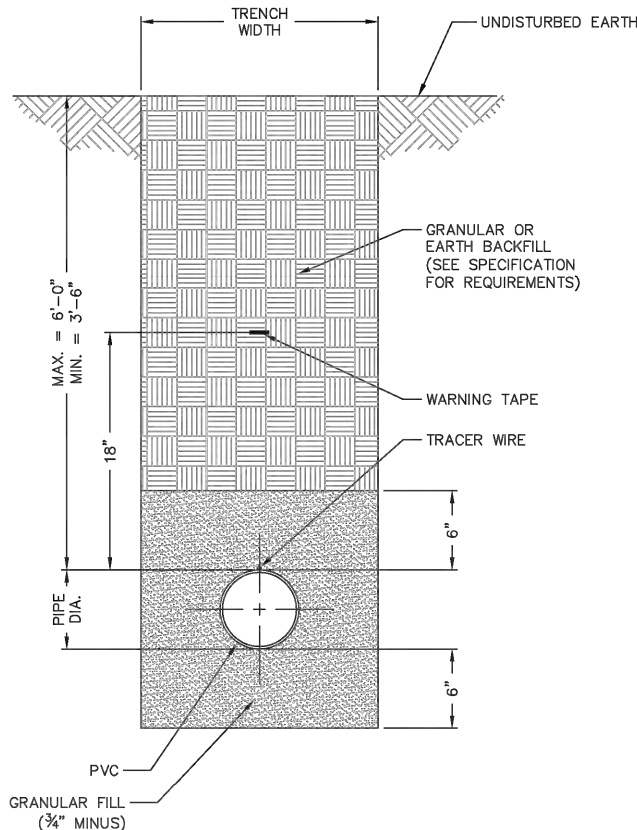
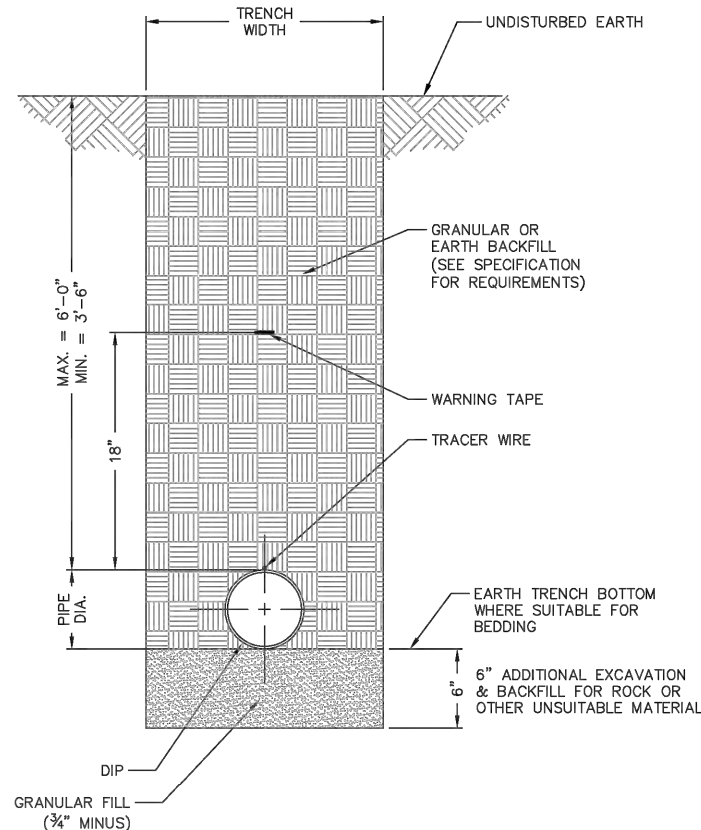


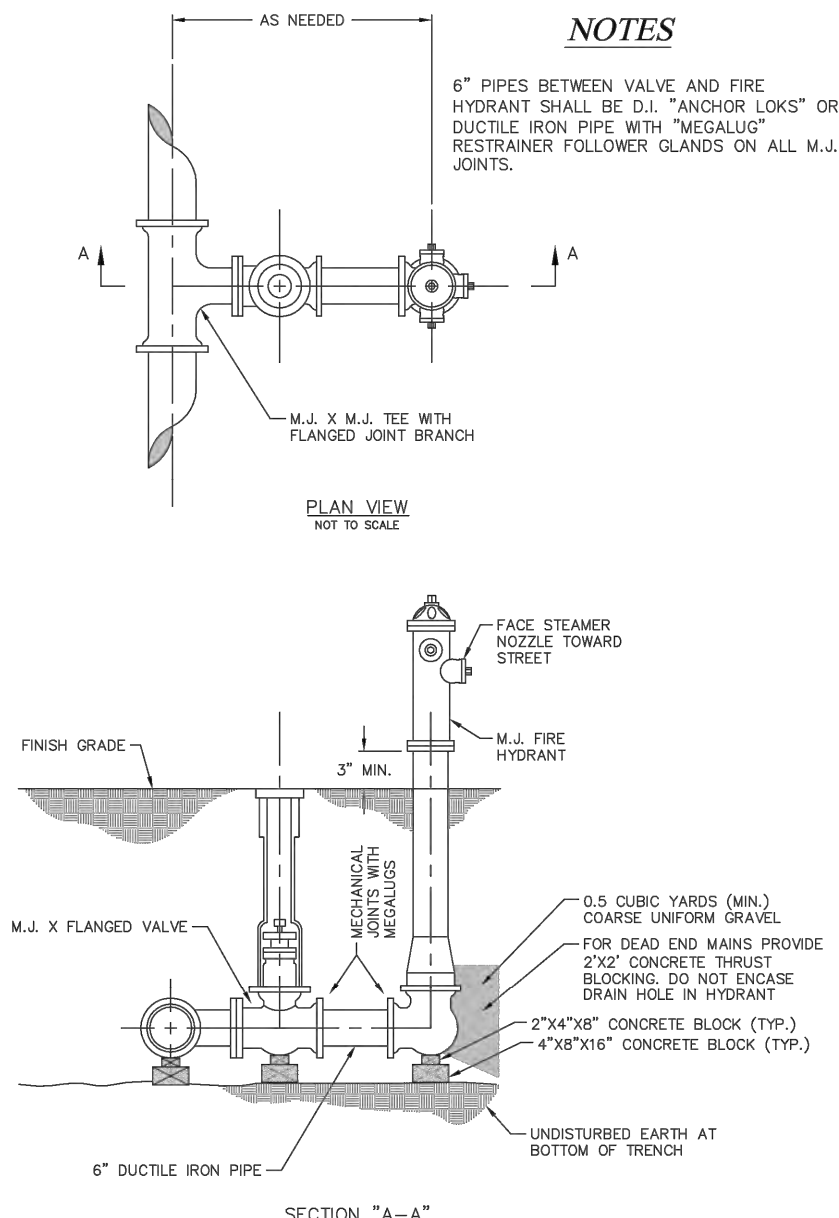
Drawing name: V:\2009\237 Highway N Assembly\Drawings\Improvements\9327 IMP DETAILS.dwg Plotted on: Feb 04, 2025 - 8:27am Plotted by: jblackhaus



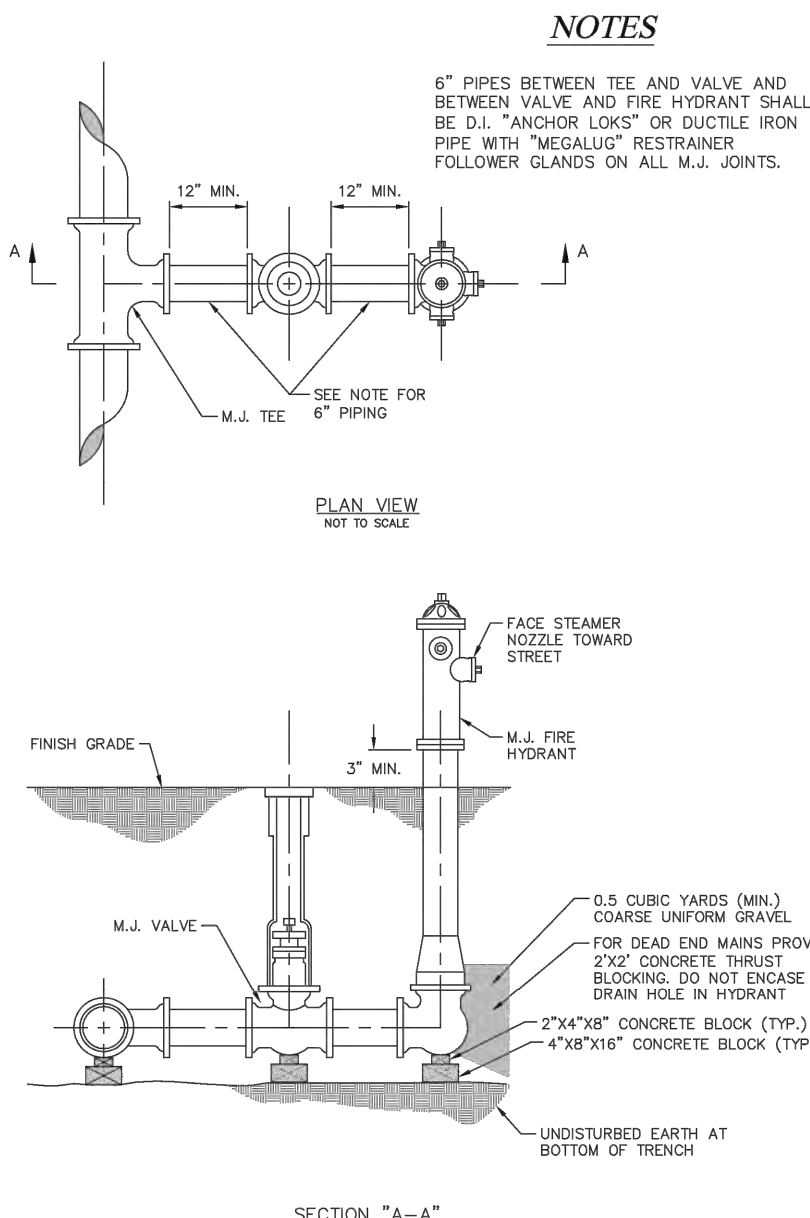
NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL TRENCH SECTION FOR PVC PIPE
NOT TO SCALE
DETAIL "A"
PAGE 1 OF 2



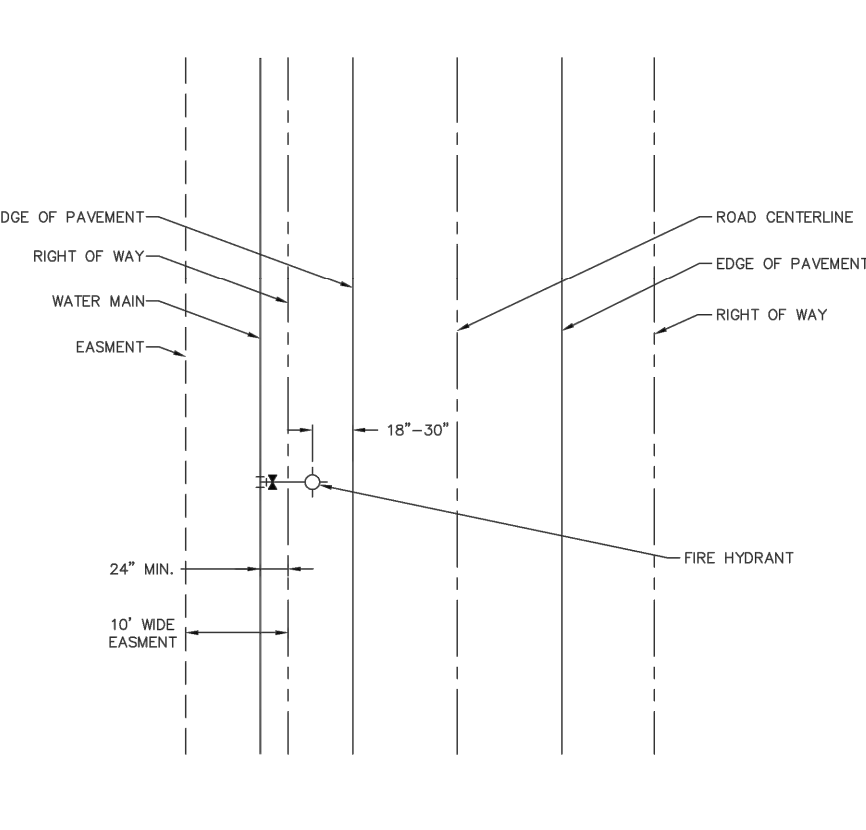
NOTES
1) POLYWRAP REQUIRED FOR DUCTILE IRON PIPE
2) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL TRENCH SECTION FOR DUCTILE IRON PIPE
NOT TO SCALE
DETAIL "A"
PAGE 2 OF 2



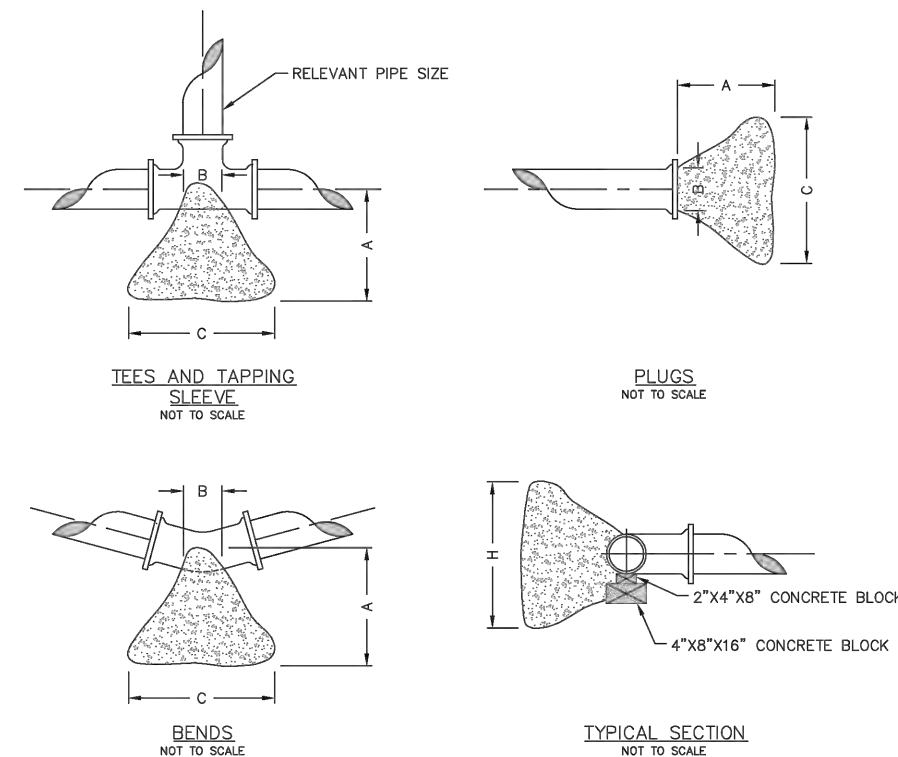
NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
FIRE HYDRANT DETAIL
NOT TO SCALE
DETAIL "B"
PAGE 1 OF 3



NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
FIRE HYDRANT DETAIL
NOT TO SCALE
DETAIL "B"
PAGE 2 OF 3

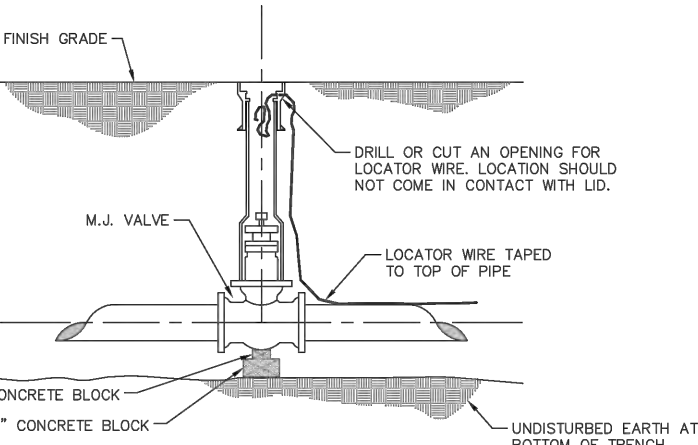


NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
FIRE HYDRANT LOCATION
NOT TO SCALE
DETAIL "B"
PAGE 3 OF 3

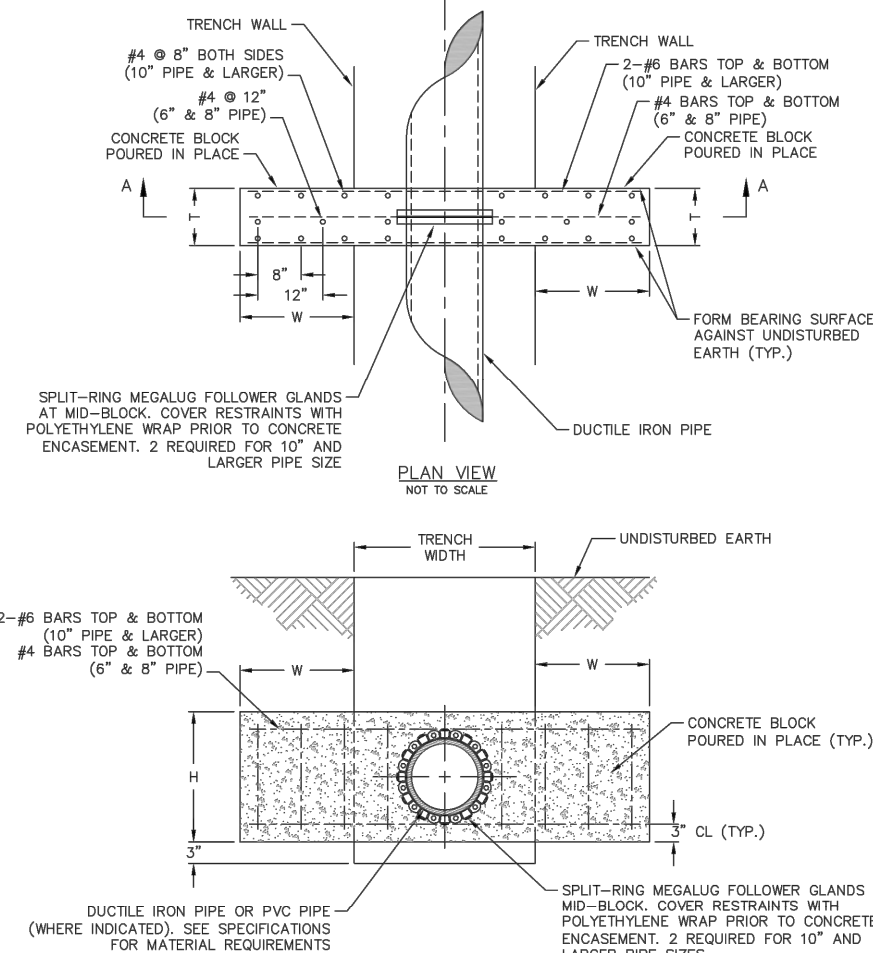


THRUST BLOCK DIMENSIONS - INCHES												
PIPE DIA.	ALL FTGS.			TEE PLUG TAPPING			90 DEGREE BEND			45 DEGREE BEND		
	A	B	C	A	B	C	A	B	C	A	B	C
4	14	4	24	12	28	15	18	12	12	12	12	12
6	16	6	36	18	36	24	30	18	24	12	12	12
8	20	8	36	30	42	36	24	24	18	18	12	12
10	20	10	48	36	66	36	36	28	24	18	18	12
12	24	12	68	36	92	42	52	36	40	24	28	18

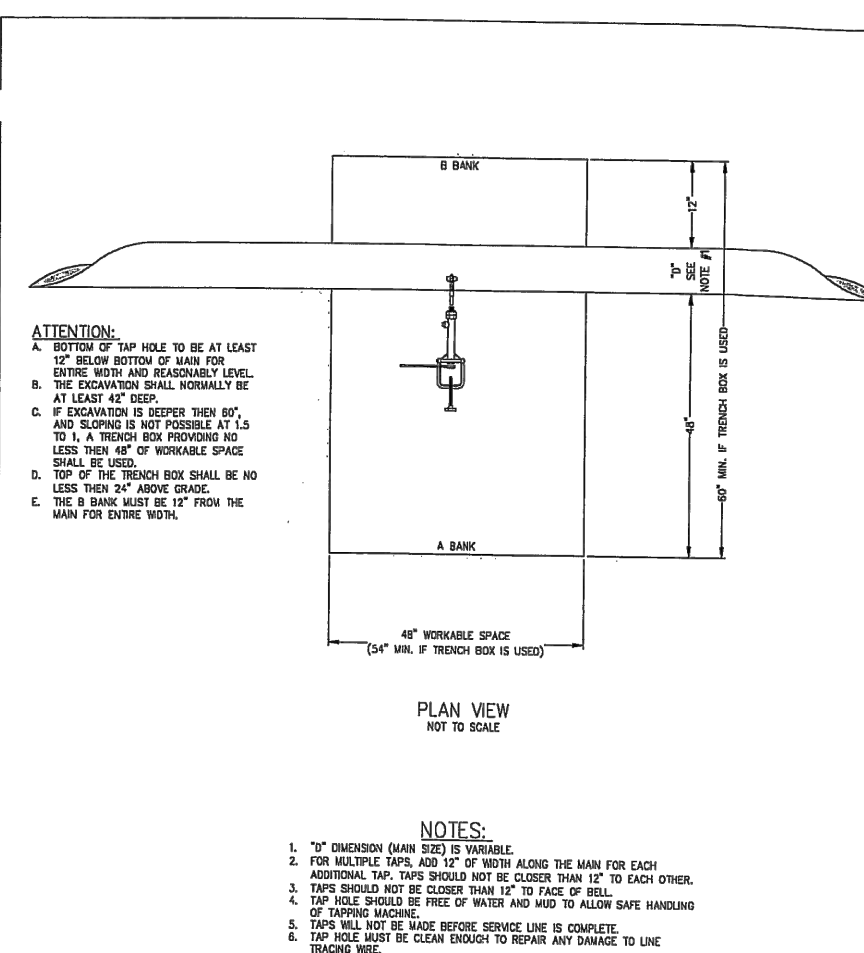
NOTE
FOR FITTINGS LARGER THAN 12", SPECIAL RESTRAINT DESIGNS ARE REQUIRED.
HORIZONTAL THRUST BLOCKING
DETAIL "C"



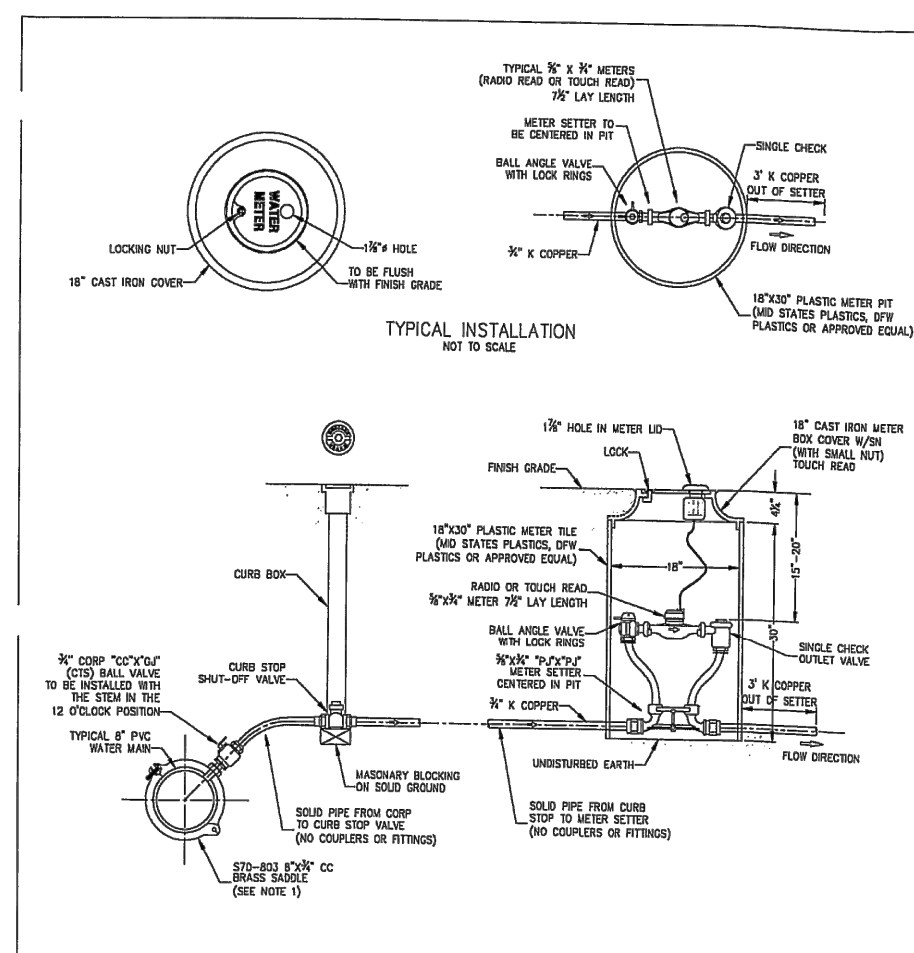
NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
GATE VALVE DETAIL
NOT TO SCALE
DETAIL "D"



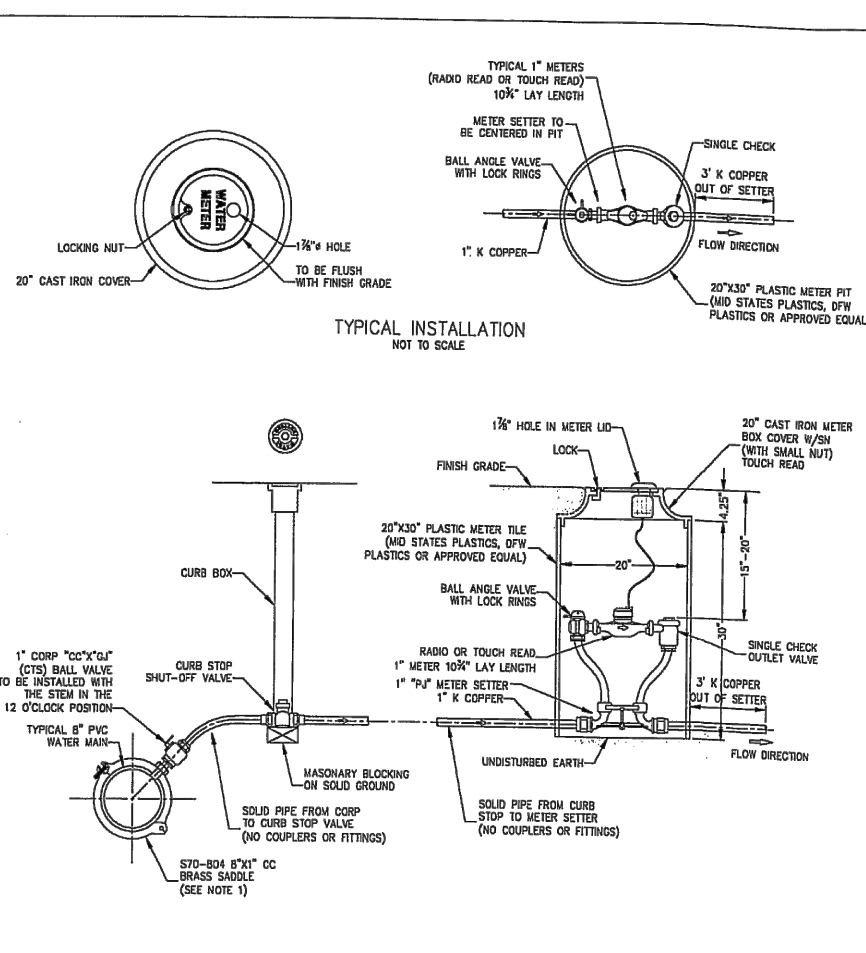
NOTES
1) CONSTRUCT CROSS BLOCKS AT A MINIMUM OF 15' FROM CONNECTION POINT AND 5' FROM THE BELL END OF PIPE.
2) CROSS BLOCKS SHALL BE PRE-POURED PRIOR TO SHUTDOWN AND CONNECTIONS.
CROSS BLOCK DIMENSIONS
NOT TO SCALE
DETAIL "E"



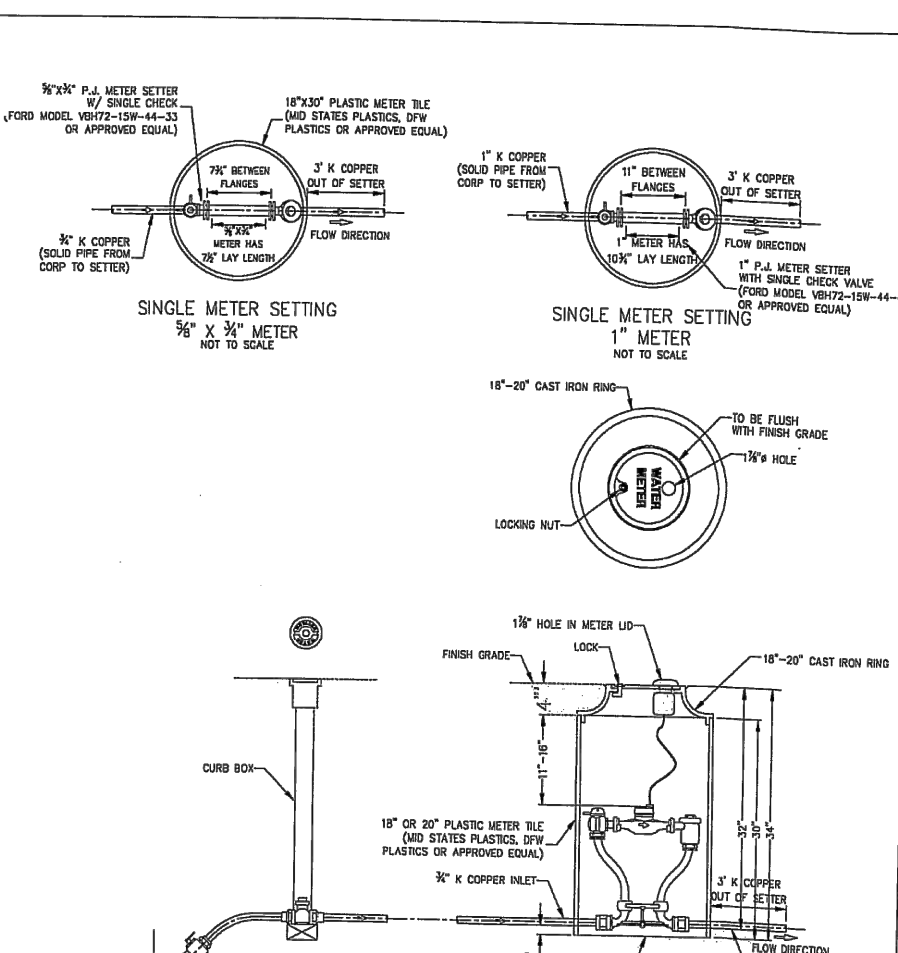
NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL 3/4x1x1 SERVICE CONNECTIONS
TAP HOLE DIMENSIONS
NOT TO SCALE
DETAIL "F"
PAGE 1 OF 2



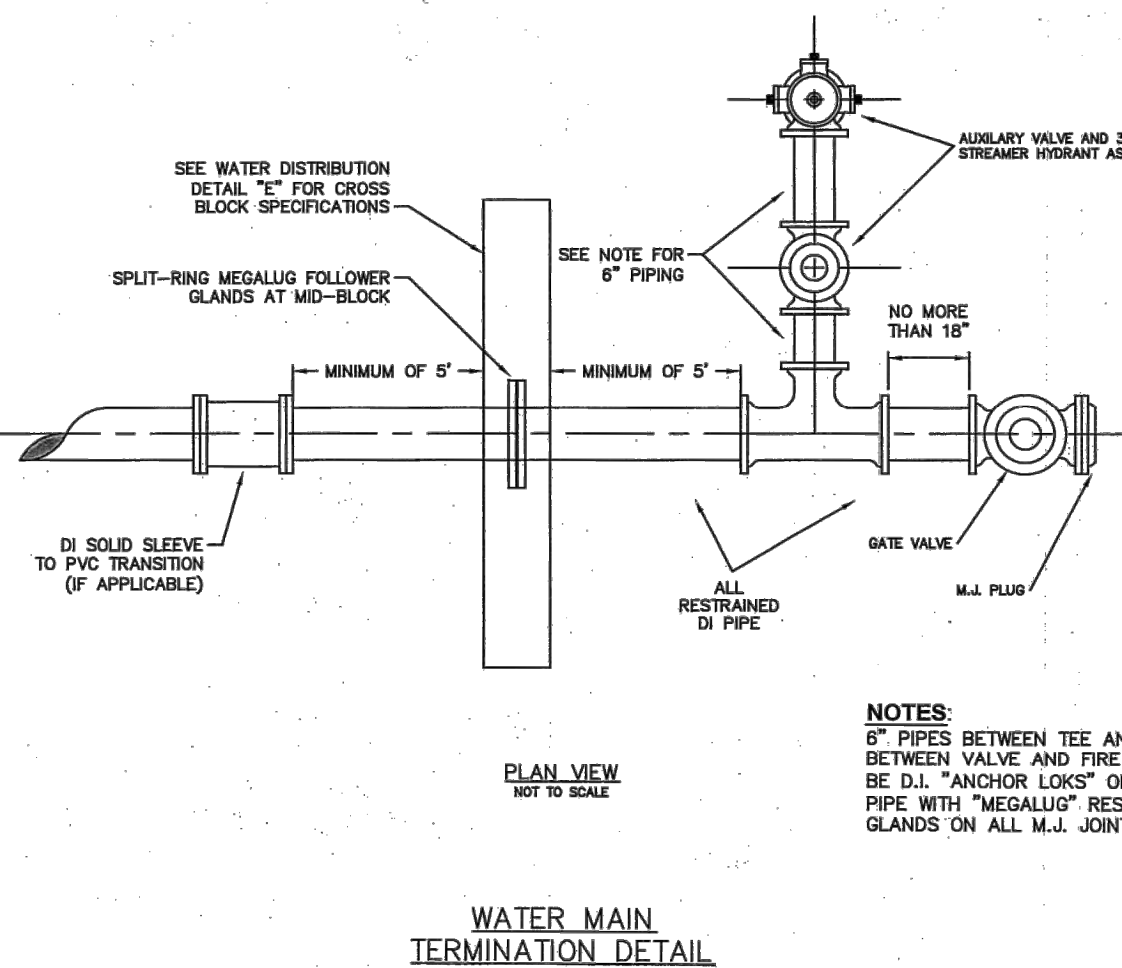
NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL 3/4x1x1 RESIDENTIAL WATER SERVICE
TAP HOLE DIMENSIONS
NOT TO SCALE
DETAIL "G"
PAGE 2 OF 2



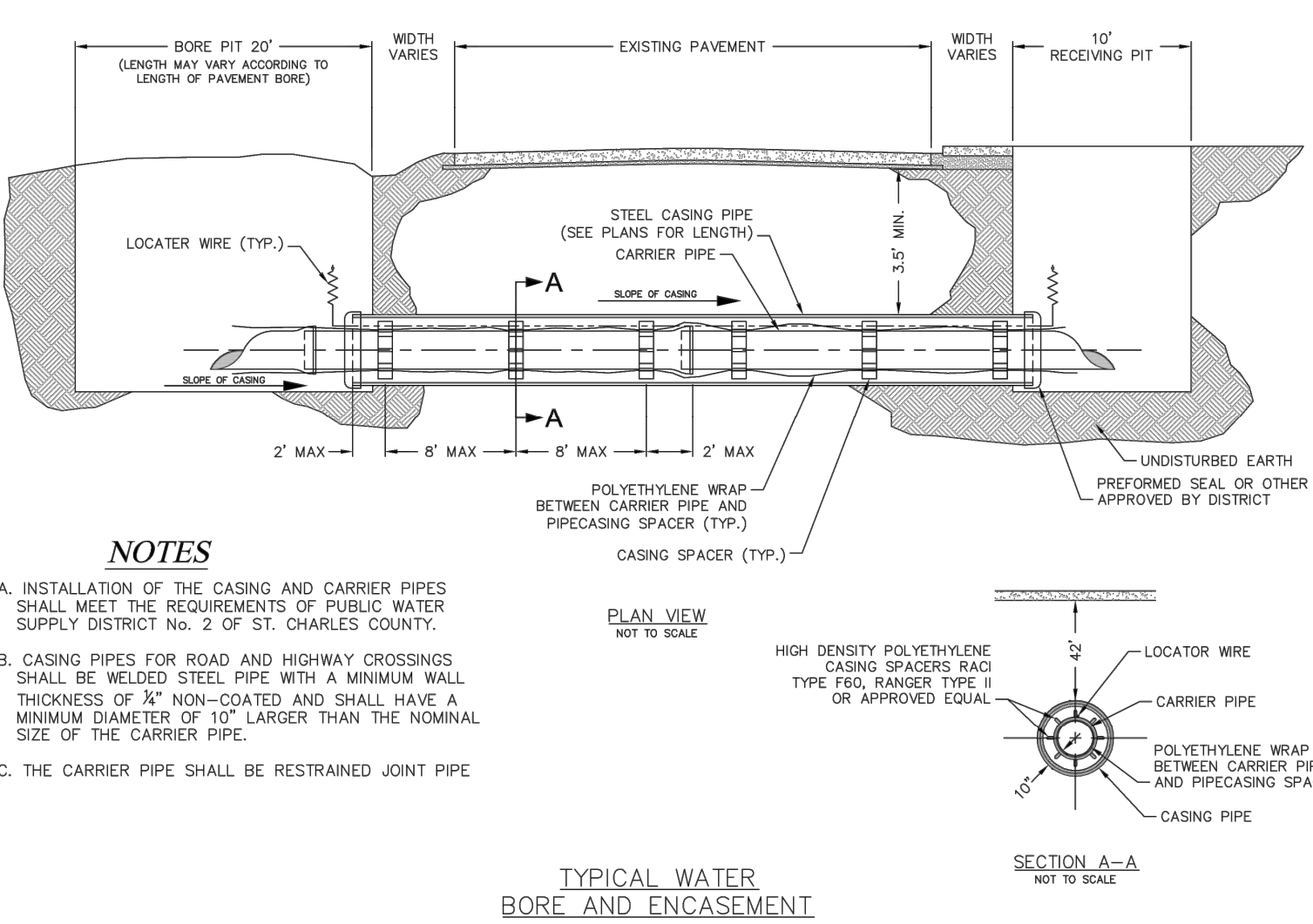
NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL 1x1 RESIDENTIAL WATER SERVICE
TAP HOLE DIMENSIONS
NOT TO SCALE
DETAIL "H"
PAGE 3 OF 3



NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL PLASTIC PIPE SETTING FOR MODERATE TO COLD CLIMATES
TAP HOLE DIMENSIONS
NOT TO SCALE
DETAIL "I"



NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
WATER MAIN TERMINATION DETAIL
NOT TO SCALE
DETAIL "J"



NOTES
1) SEE SPECIFICATIONS FOR ADDITIONAL DETAILS FOR BEDDING AND BACKFILL.
TYPICAL WATER BORE AND ENCASUREMENT
DETAIL "K"

PROJECT TITLE
**HARVEST
AT HOPEWELL**
O'Fallon, Missouri
O'FALLON PHASE 2

THE **STERLING** CO.
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5055 New Baumgartner Road
St. Louis, Missouri 63129
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www.sterling-eng-survey.com
Corporate Certificate of Authority #0010348

PROFESSIONAL ENGINEER
Date: 02-04-2025
Michael G. Boeringer
License No. MO E-28643
Professional Engineer

HARVEST HOPEWELL, LLC
5091 New Baumgartner Road
St. Louis, Missouri 63129

PWS#2 WATER DETAILS

P+Z No. 21-004994
City No. 21-011444
Date: 02-04-2025
Job No. 20-09-327
Page No.

DTL-8
IMP

"FINAL PLAN" Approval Date: Dec. 16, 2021