

2019 - WATER SYSTEM IMPROVEMENTS

CONTRACT 13 - WATER MAIN REPLACEMENT

FOR THE

SANDY HOOK WATER DISTRICT

APRIL 2022

PREPARED BY:

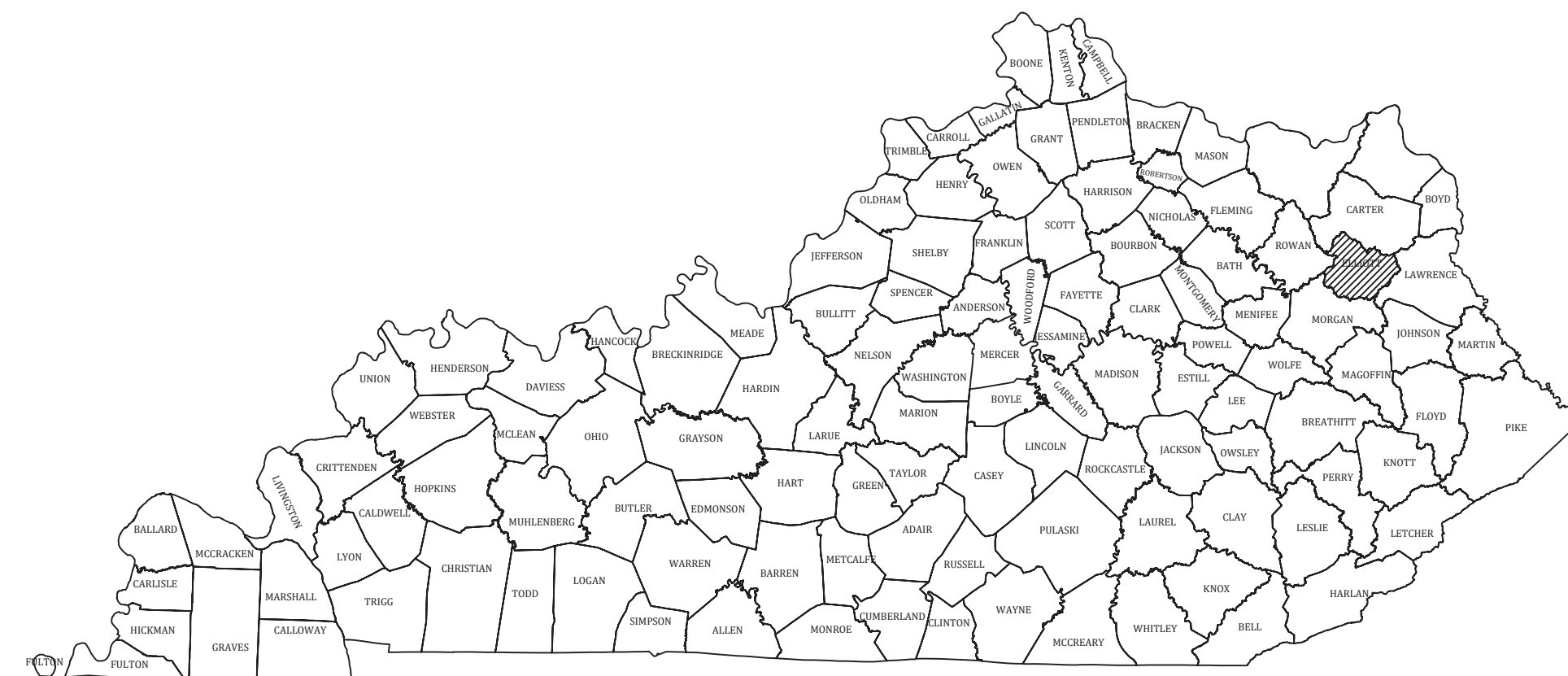
BOARD MEMBERS:

PHILLIP JUSTICE - CHAIRMEN
IRA VEST - SECRETARY
ESTILL HOWARD
BEULIN HILL

BRIDGETT HOWARD - GENERAL MANAGER
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222 East Main Street, Ste. 1 • Georgetown, KY 40324



PROJECT NO. 19003

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GENERAL NOTES

- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND THE ENGINEER TWO WORKING DAYS (MINIMUM) BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH CITY, COUNTY AND STATE REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
- EXISTING UTILITIES, ESPECIALLY GAS LINES AND OIL LINES, MAY BE CATHODICALLY PROTECTED. THEREFORE, DUCTILE IRON PIPE, FITTINGS, GATE VALVES, AND/OR BOXES LAID WITHIN 100' OF LINES WITH CATHODIC PROTECTION SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT. MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA'S LATEST REVISION.
- ALL CONSTRUCTION AND INSTALLATION OF MATERIALS BEING USED SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SUBSTITUTIONS AND DEVIATION SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH A REPRESENTATIVE WHEN WORKING NEAR EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INCLUDED BUT NOT LIMITED TO ARE: TEES, BENDS, PLUGS, REDUCERS, CROSSES, COUPLINGS, ETC. CONTRACTORS SHALL INCLUDE THE COST OF THESE ITEMS IN THE BID PRICE FOR THE PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL/RELOCATION OF TRAILERS, BUILDINGS, FENCES, TREES, SHRUBS, ETC. AND REPLACEMENT OF SAID ITEMS AFTER CONSTRUCTION ACTIVITIES.
- CONTRACTOR IS TO COORDINATE WITH THE PROPERTY OWNERS AS TO WHETHER OR NOT TEMPORARY FENCING IS REQUIRED AND CONSTRUCT IF NECESSARY.
- ALL PIPING SHALL HAVE 30° MINIMUM COVER.
- WHERE UNSTABLE MATERIAL IS ENCOUNTERED OR WHERE THE DEPTH OF EXCAVATION IN EARTH EXCEEDS FIVE (5) FEET, THE SIDES OF THE TRENCH OR EXCAVATION SHALL BE SUPPORTED BY SUBSTANTIAL SHEETING, BRACING, SHORING OR THE TRENCH SIDES SLOPED. SLOPING THE SIDES OF THE DITCH WILL NOT BE PERMITTED IN STREETS, ROADS, NARROW RIGHTS-OF-WAY OR OTHER CONSTRICTED AREAS UNLESS OTHERWISE SPECIFIED. THE STANDARDS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND THE KENTUCKY LABOR CABINET SHALL BE FOLLOWED.
- ALL EXCAVATION IS UNCLASSIFIED. COMPENSATION FOR ALL EXCAVATION SHALL BE INCLUDED IN LUMP SUM BID.
- REGRADE OF SITE SHALL BE SUCH THAT DRAINAGE IS AWAY FROM ALL STRUCTURES.
- BACKFILL AROUND ALL STRUCTURES SHALL BE SUFFICIENTLY COMPACTED TO PRECLUDE SETTLEMENT AND PONDING OF WATER AROUND STRUCTURES AND GRADED TO DIVERT RUNOFF AWAY FROM THE STRUCTURES.
- DIMENSIONS, DETAILS AND REINFORCEMENT MAY VARY WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE, APPROVED SHOP DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- ALL VALVES & HYDRANTS SHALL BE LOCATED AT THE BACKSIDE OF THE DITCHLINE.
- FINAL LOCATION OF SERVICES, VALVES, & HYDRANT ORIENTATION ARE TO BE FIELD LOCATED DURING CONSTRUCTION & APPROVED BY THE ENGINEER.
- AT THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUBSTITUTED FOR ANY PIPE PARTICULARLY SPECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.
- NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN SET UP. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS BID PRICE.
- ROCK SOUNDINGS WERE NOT PERFORMED BY THE ENGINEER, THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO DETERMINE SUBSURFACE CONDITIONS.
- CONTRACTOR TO DIG/EXPOSE EXISTING WATER MAIN FAR ENOUGH AHEAD OF NEW WATER MAIN CONSTRUCTION TO AVOID DAMAGE TO EXISTING WATER MAIN AND/OR INTERRUPTION OF EXISTING CUSTOMER SERVICES.
- ALL NEW SERVICE LINE FROM THE NEW MAIN TO THE SETTERS SHALL BE 3/4" PE CTS TUBING UNLESS SHOWN DIFFERENTLY ON THE PLANS
- THE MAXIMUM ALLOWABLE LENGTH OF SERVICE LINE FROM THE WATER MAIN TO THE CUSTOMER'S METER SERVICE SHALL BE AS FOLLOWS:

SERVICE LINE DIAMETER	MAXIMUM LENGTH
3/4 INCH	125 FEET
1 INCH	150 FEET
1-1/2 INCH	200 FEET
2 INCH	250 FEET
- CONNECTIONS TO EXISTING DISTRIBUTION SYSTEM SHALL BE MADE AS FOLLOWS:
 - CONNECT TO EXISTING (SIZE) W.M. (WET TAP) - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS, VALVES AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN UNDER PRESSURE.
 - CONNECT TO EXISTING (SIZE) W.M. - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN. VALVES ARE A SEPARATE PAY ITEM.
- NO BLASTING WILL BE PERMITTED ON THIS PROJECT
- GRIP RINGS SHALL BE INSTALLED ON ALL FITTINGS
- ALL PVC CASING SHALL BE MINIMUM OF 4" LARGER THAN CARRIER PIPE. STEEL CASING MINIMUM 6" LARGER.
- ALL EXISTING METERS SHALL BE RECONNECTED TO NEW WATER MAINS W/NEW 3/4" PE SERVICE LINE.
- NMR - (NEW METER RECONNECT) MARKED ON PLANS WILL NOTE THOSE MATERIALS THAT WILL BE REPLACED WITH NEW METER ASSEMBLY'S (SETTER, BOX, LID, ETC) AND RECONNECTED TO EXISTING SERVICE AND NEW WATER MAIN.
- ANY MAILBOX THAT IS REMOVED FOR THE INSTALLATION OF THE WATER MAIN MUST BE RE-INSTALLED ONCE THE WATER MAIN HAS BEEN INSTALLED.
- ALL CONNECTIONS BETWEEN THE PVC AND HDPE MUST BE SEALED IN PLASTIC AND CONCRETED.

GENERAL NOTES

- NEW LINE AND EXISTING LINES MUST REMAIN IN SERVICE UNTIL ALL METERS ASSEMBLED HAVE BEEN REPLACED AND RECONNECTED TO THE NEW LINE
- NO METERS CAN BE RECONNECTED TO THE NEW WATER MAIN UNTIL TESTING, STERILIZATION AND SAMPLING HAS BEEN SUCCESSFULLY COMPLETED
- COPIES OF ALL BAC-T RESULTS MUST BE PROVIDED TO THE OWNER PRIOR TO RECONNECTS OF ANY METER.
- A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE TAPED TO THE TOP OF THE WATER MAIN PIPE. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED OUTSIDE ALL VALVE BOXES W/ ENOUGH SLACK TO ALLOW ACCESS TO THE LOOPS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PLUMBING PERMITS NECESSARY TO RELOCATE OR RECONNECT ANY CUSTOMERS METER SERVICE OR SERVICE LINE. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES AND EMPLOY THE NECESSARY LICENSED PLUMBER.

FINAL CLEANUP AND RESTORATION

UNLESS SPECIFICALLY APPROVED BY THE OWNER AND ENGINEER, CLEANUP OF DISTURBED AREAS SHALL BE KEPT CURRENT WITH CONSTRUCTION AND RESTORATION EFFORTS BY THE CONTRACTOR INITIATED NO LONGER THAN SEVEN (7) DAYS AFTER THE TRENCH EXCAVATION WORK HAS STARTED. ALL EXCAVATED MATERIAL NOT REQUIRED FOR BACKFILLING OF THE TRENCH AND ANY LARGE ROCKS, STONES OR DEBRIS SHALL BE REMOVED FROM THE SITE, AND SHALL NOT BE A BURDEN TO THE PROPERTY OWNER(S) AND/OR ADJACENT PROPERTIES. THE CONTRACTOR MAY WINDROW OR TRACK-IN THE EXCAVATED MATERIAL OVER THE TRENCH PRIOR TO FINAL CLEANUP TO ALLOW FOR AND TO ASSIST IN THE INITIAL SETTLEMENT OF THE TRENCH. ALL DISTURBED AREAS MUST BE SEEDED AT LEAST WITH A TEMPORARY SEED MIX IF FOR SOME REASON THE AREA CANNOT BE PERMANENTLY SEEDED WITHIN TWO (2) WEEKS.

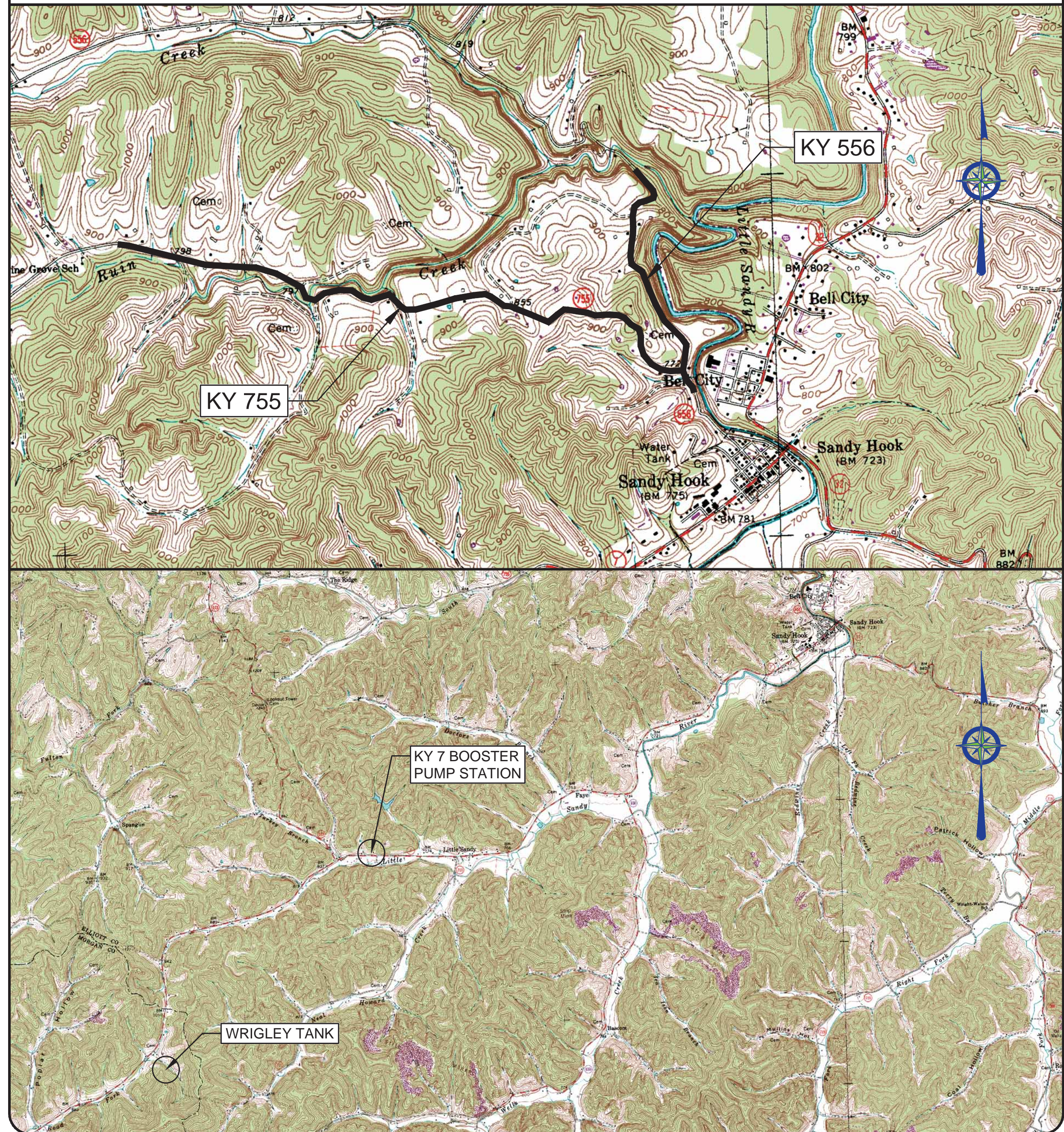
CONSTRUCTION IN KTC RIGHT-OF-WAY

- ALL EFFECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING PROPERTY AND WATERWAYS.
- ALL VALVES TO BE FLUSH W/ EXISTING GRADE.
- ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWALLS.
- UNDERGROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
- UNDERGROUND UTILITIES SHOWN MORE THAN 5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES WITH PRIOR APPROVAL ON A CASE BY CASE BASIS.
- UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC DISTRICT PERMITS ENGINEER.
- UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
- FIRE HYDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF RIGHT-OF-WAY LINE, OR OFF RIGHT-OF-WAY.

INDEX OF DRAWINGS

SHT NO.	DESCRIPTION:
-	COVER
01	PROJECT MAP, EXISTING UTILITIES, LEGEND, AND DRAWING INDEX
02	AERIAL PLAN - KY 556 - STA. 10+00 TO 40+00
03	AERIAL PLAN - KY 556 - STA. 40+00 TO 47+12
04	AERIAL PLAN - KY 755 - STA. 10+00 TO 33+00
05	AERIAL PLAN - KY 755 - STA. 33+00 TO 61+00
06	AERIAL PLAN - KY 755 - STA. 61+00 TO 86+00
07	AERIAL PLAN - KY 755 - STA. 86+00 TO 114+00
08	AERIAL PLAN - KY 755 - STA. 114+00 TO 143+00
09	AERIAL PLAN - KY 755 - STA. 143+00 TO 155+46
10	WRIGLEY TANK & KY 7 BOOSTER PUMP STATION
11	STANDARD DETAILS
12	STANDARD DETAILS
13	STANDARD DETAILS
14	STANDARD DETAILS

SHEET LOCATION MAP



LEGEND

- NEW WATER MAIN
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER
- EXISTING GAS MAIN
- EXISTING FORCE MAIN
- NEW STEEL CASING
- EXISTING CULVERT
- NEW FLUSHING HYDRANT
- EXISTING FLUSHING HYDRANT
- EXISTING WATER METER
- NEW GATE VALVE & BOX
- EXISTING MANHOLE
- AIR RELEASE
- BLOW OFF ASSEMBLY

UTILITIES

BUD - Before You Dig
 1-800-752-6007
 or DIAL 811

NOTE:
 IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

WATER DISTRICT

SANDY HOOK WATER DISTRICT
 PHONE: 606-738-6282

NO.	DATE	REVISIONS	BY

2019 WATER SYSTEM IMPROVEMENTS PROJECT
 PROJECT MAP, EXISTING UTILITIES, LEGEND, AND DRAWING INDEX

BLUEGRASS ENGINEERING, PLLC
 222 East Main Street, Ste. 1 - Georgetown, KY 40324

SANDY HOOK WATER DISTRICT
 Serving Our Community

PROJECT #:	19003
DATE:	APRIL 2022
PROJECT MGR:	BKL
DRAWN BY:	WJH
CHECKED BY:	LRS



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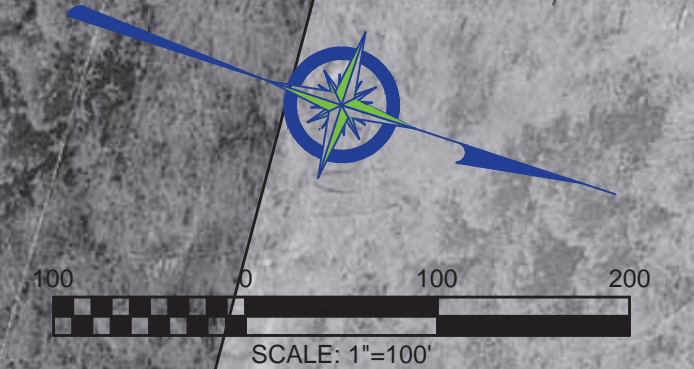
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BE 4/06/22

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NOTES:
 ALL PVC PIPE SHALL BE DR18
 NM = NEW METER & RECONNECT EXISTING SERVICE
 RECONNECT ALL METERS



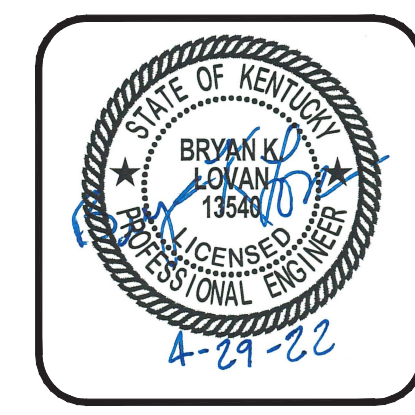
NO.	DATE	REVISIONS	BY

2019 WATER SYSTEM IMPROVEMENTS PROJECT
 KY 556 STA. 10+00 TO STA. 40+00

SANDY HOOK WATER DISTRICT
 Serving Our Community

BLUEGRASS ENGINEERING, PLLC
 222 East Main Street, Ste. 1 - Georgetown, KY 40324

PROJECT #: 19003
 DATE: APRIL 2022
 PROJECT MGR: LRS
 DRAWN BY: WJH
 CHECKED BY: PBR



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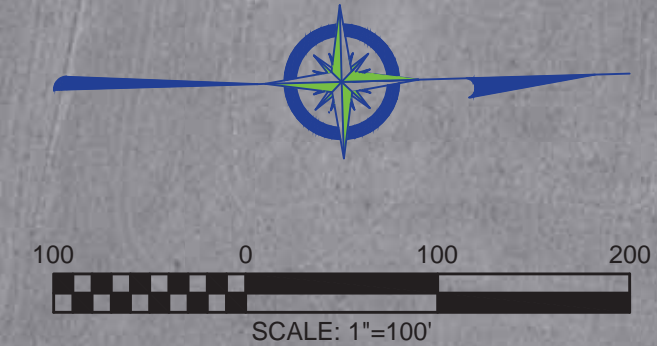
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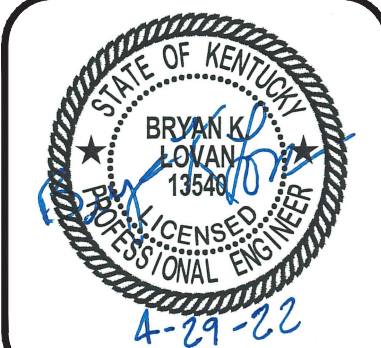
NO.	DATE	REVISIONS	BY

2019 WATER SYSTEM IMPROVEMENTS PROJECT
 KY 556 STA. 40+00 TO STA. 47+12

SANDY HOOK WATER DISTRICT
 Serving Our Community

BLUEGRASS ENGINEERING PLLC
 222 East Main Street, Ste. 1 - Georgetown, KY 40324

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03

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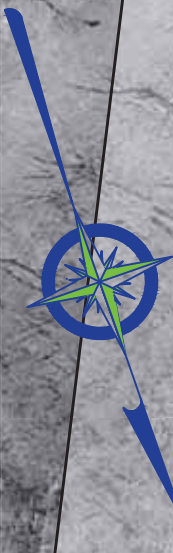
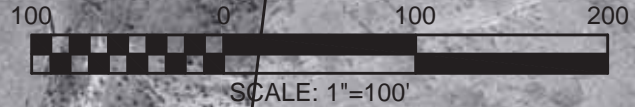
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STA. 100+00
6"x6"x4" D.I.M.J. TEE
1 - 6" GATE VALVE & BOX
1 - 4" GATE VALVE & BOX



NOTES:
ALL PVC PIPE SHALL BE DR18
NM = NEW METER & RECONNECT EXISTING SERVICE
RECONNECT ALL METERS



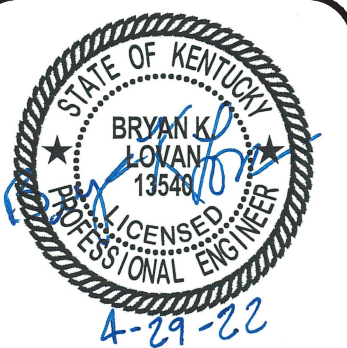
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2019 WATER SYSTEM IMPROVEMENTS PROJECT
KY 755 STA. 100+00 TO STA. 123+00

SANDY HOOK WATER DISTRICT
Serving Our Community

BLUEGRASS ENGINEERING, PLLC
222 East Main Street, Ste. 1 - Georgetown, KY 40324

PROJECT #: 19003
DATE: APRIL 2022
PROJECT MGR: LRS
DRAWN BY: WJH
CHECKED BY: PBR

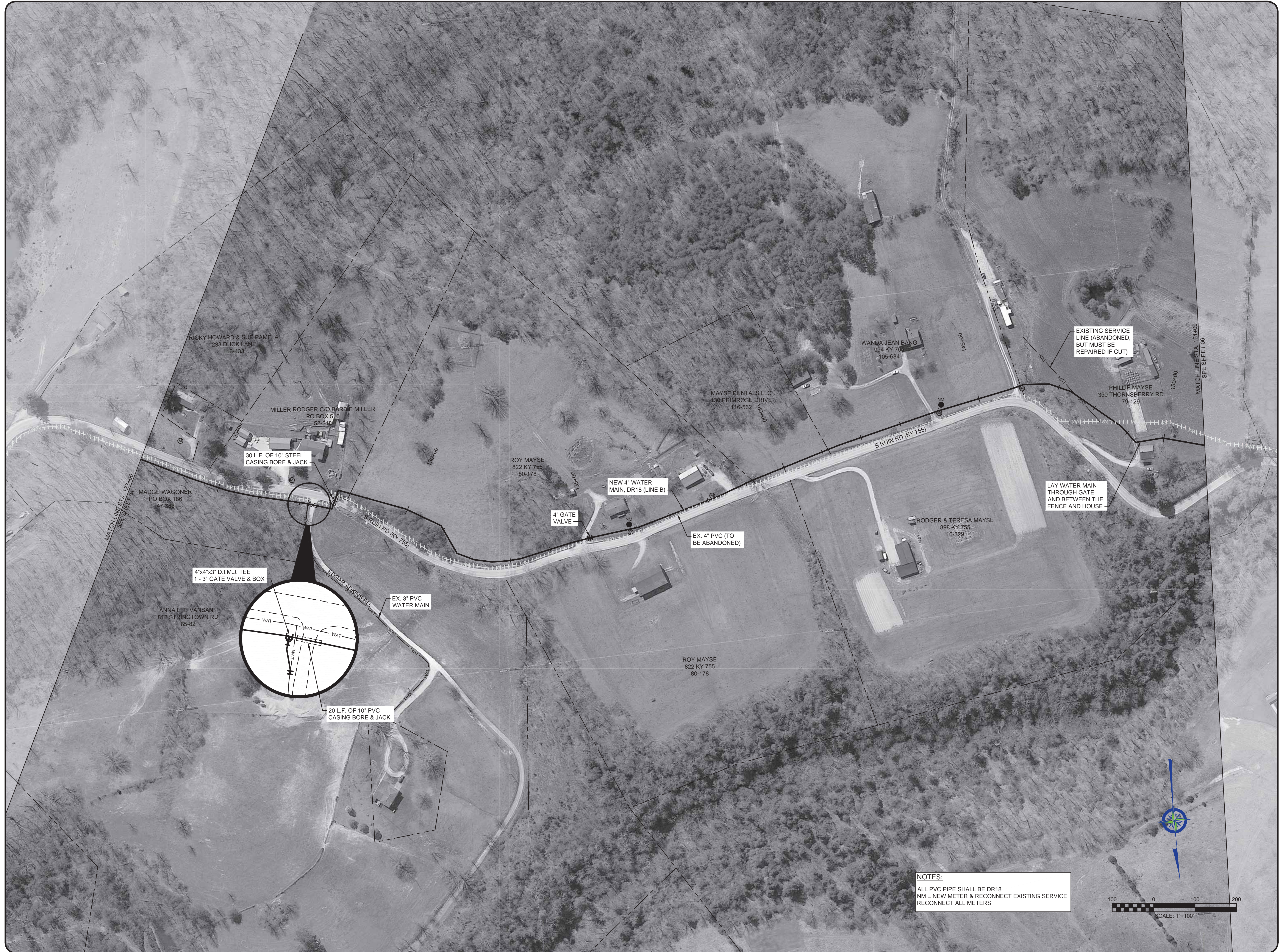


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NO.	DATE	REVISIONS	BY

2019 WATER SYSTEM IMPROVEMENTS PROJECT
 KY 755 STA. 123+00 TO STA. 151+00

SANDY HOOK WATER DISTRICT
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BLUEGRASS ENGINEERING, PLLC
 222 East Main Street, Ste. 1 - Georgetown, KY 40324

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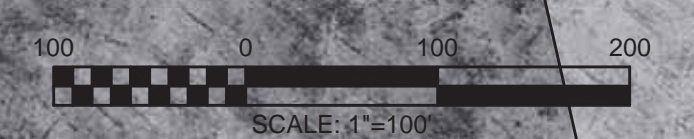
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NO.	DATE	REVISIONS	BY

2019 WATER SYSTEM IMPROVEMENTS PROJECT
 KY 755 STA. 151+00 TO STA. 176+00

SANDY HOOK WATER DISTRICT
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BLUEGRASS ENGINEERING, PLLC
 222 East Main Street, Ste. 1 - Georgetown, KY 40324

PROJECT #: 19003
 DATE: NOVEMBER 2021
 PROJECT MGR: LRS
 DRAWN BY: CBW
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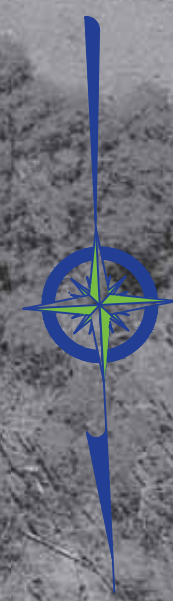
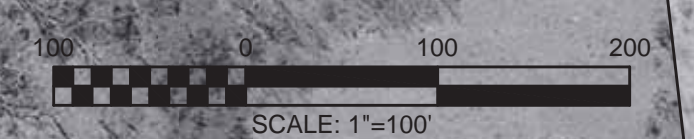
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2019 WATER SYSTEM IMPROVEMENTS PROJECT
 KY 755 STA. 176+00 TO STA. 204+00



PROJECT #: 19003
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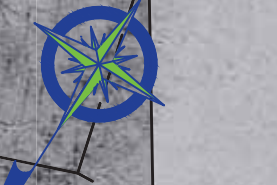
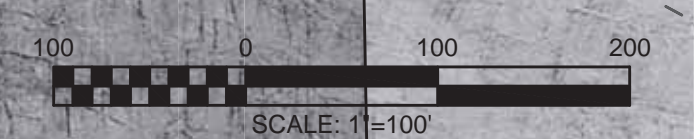
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2019 WATER SYSTEM IMPROVEMENTS PROJECT
 KY 755 STA. 204+00 TO STA. 233+00

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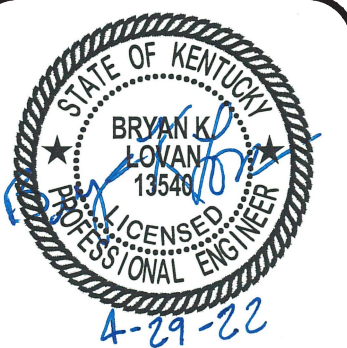
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2019 WATER SYSTEM IMPROVEMENTS PROJECT
 KY 755 STA. 233+00 TO STA. 245+46

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 222 East Main Street, Ste. 1 - Georgetown, KY 40324

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 CHECKED BY: PBR



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ELEVATION VIEW - WRIGLEY TANK

NOT TO SCALE

COORDINATES

LATITUDE: 38° 02' 13.70" N
LONGITUDE: -83° 13' 35.64" W

GENERAL NOTES

- HIGH-PRESSURE POWER WASH THE INTERIOR TO REMOVE SEDIMENT AND STAINING
- SSPC SP-3 SURFACE PREPARATION FOR ALL CORROSION SPOTS
- APPLY NSF APPROVED MASTIC TO ALL CLEANED SPOTS
- REPAIR FLOAT FOR INDICATOR BOARD
- INSTALL NEW SACRIFICIAL ANODES
- ALL FAILING SPOTS SHOULD BE POWER TOOL CLEANED BARE (SSPC-SP-3) AND COATED WITH MASTIC COATING
- APPLY NSF APPROVED MASTIC TO ALL INTERIOR SEAMS (2 COATS REQUIRED)
- NOTE: DRILLING OF HOLES OR REMOVAL OF BOLTS ON ANY PART OF THE TANK FOR RIGGING PURPOSES WILL NOT BE ALLOWED.



ELEVATION VIEW - EX. KY 7 BOOSTER PUMP STATION

NOT TO SCALE

COORDINATES

LATITUDE: 38° 03' 43.04" N
LONGITUDE: -83° 11' 47.79" W

GENERAL NOTES

- CONTRACTOR SHALL SUPPLY TWO NEW 10 HP 90 GPM GRUNDFOS PUMPS AND TWO (2) NEW DANFOSS VARIABLE FREQUENCY DRIVES (VFD'S), MODEL VLT AQUA, NEMA 12 WALL MOUNTED, WITH INTEGRAL DISCONNECT, RATED FOR 25 AMPS AND INTERFACING WITH THE NEW PUMPS.
- VFD'S SHALL BE CAPABLE OF CONSTANT PRESSURE CONTROL UTILIZING TWO (2) DANFOSS MBS30000, 0-200 PSI PRESSURE TRANSMITTERS.
- VFD'S SHALL ALSO INTERFACE WITH A NEW PILOT PANEL THAT WILL INCLUDE NECESSARY COMPONENTS FOR SWITCHING FROM TELEMETRY CONTROL TO CONSTANT PRESSURE CONTROL WITH A CONTACT SWITCH.
- THE PILOT PANEL SHALL ALSO INCLUDE A 24 HOUR TIMER FOR ALTERNATION OF THE PUMPS DURING CONSTANT PRESSURE CONTROL.
- ALL WIRING AND CONDUIT SHALL MEET NEC REQUIREMENTS, AND WORK SHALL BE PERFORMED BY A LICENSED MASTER ELECTRICIAN.
- VFD'S SHALL HAVE CAPABILITY TO HAVE DISCHARGE AND SUCTION PRESSURE EMERGENCY SHUT OFFS BASED ON 150 PSI FOR THE DISCHARGE AND 30 PSI FOR THE SUCTION PRESSURE.
- THIS PUMP STATION MUST BE ABLE TO OPERATE OFF THE VFD CONSTANT PRESSURE MODE WHILE THE WRIGLEY TANK IS BEING REHABILITATED.

NO.	DATE	REVISIONS	BY

2019 WATER SYSTEM IMPROVEMENTS PROJECT

WRIGLEY TANK
KY 7 BOOSTER PUMP STATION



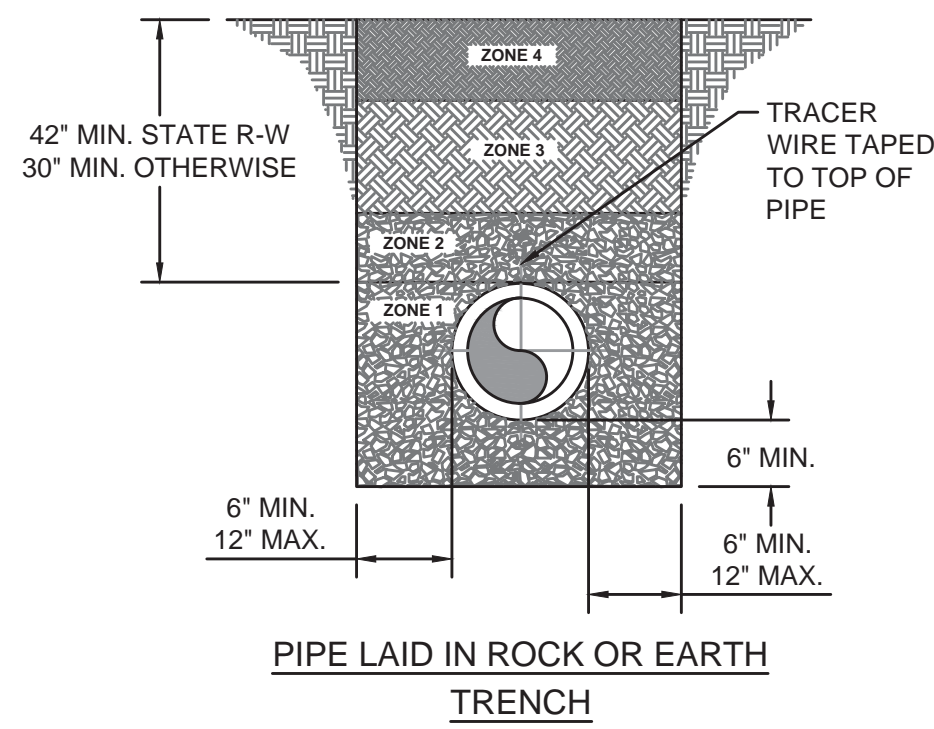
PROJECT #:	19003
DATE:	APRIL 2022
PROJECT MGR:	BKL
DRAWN BY:	WJH
CHECKED BY:	LRS



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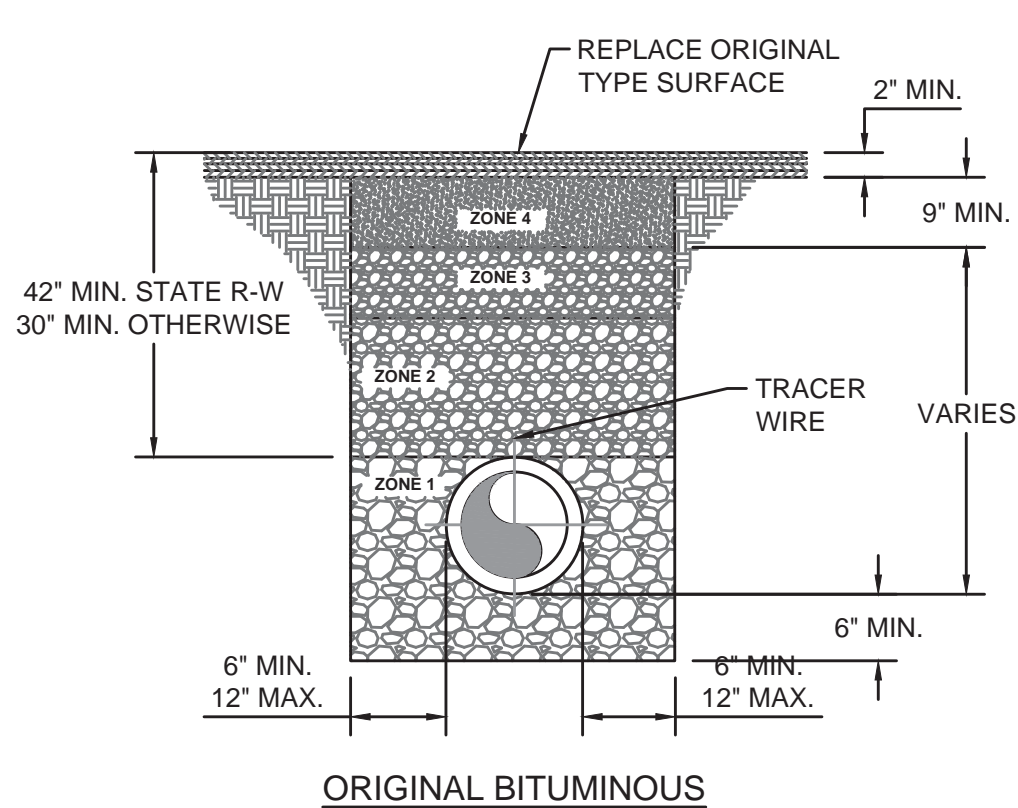
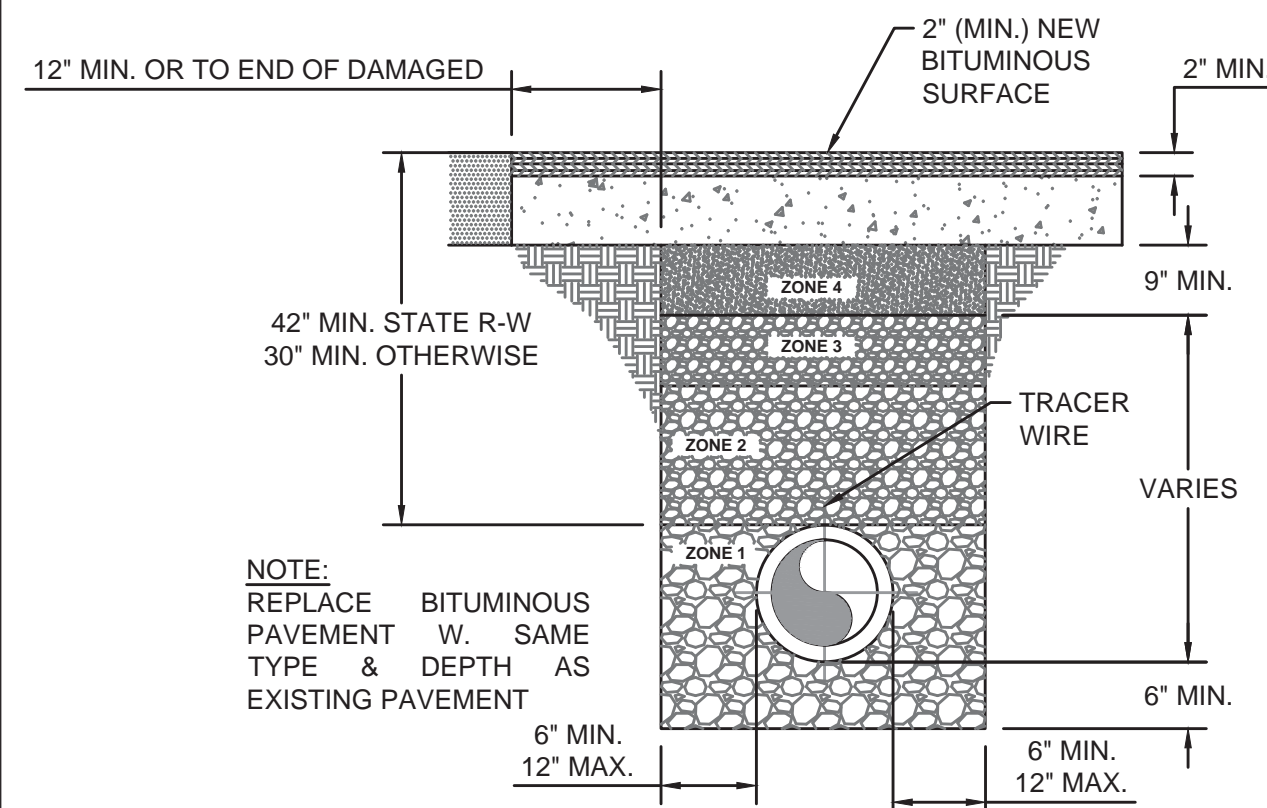
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DETAIL NOTES:

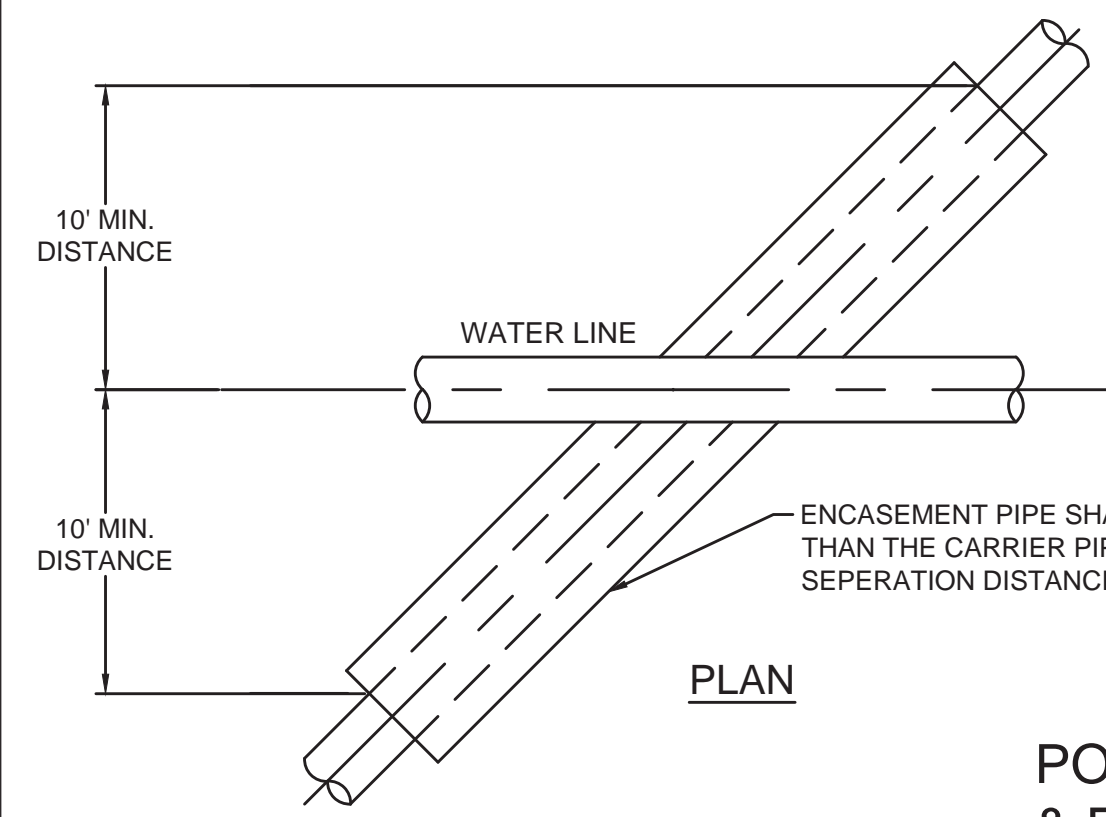
- COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
- ZONE 4 - 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.
- ZONE 3 - CONSOLIDATED SOIL, (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE
- ZONE 2 - FROM THE SPRINGLINE OF THE PIPE TO A DISTANCE 12 INCHES ABOVE THE PIPE, THE CONTRACTOR SHALL USE THE SAME MATERIAL AS SPECIFIED FOR BEDDING. COMPACTION IS REQUIRED IN AREAS SUBJECT TO TRAFFIC.
- ZONE 1 - BEDDING MATERIAL, IN EARTH EXCAVATION AREAS, SHALL BE CLEAN EARTH, FREE FROM ROCKS, DEBRIS OR OTHER FOREIGN MATERIAL. THE CONTRACTOR SHALL USE CRUSHED STONE, SAND OR GRAVEL AS BEDDING MATERIAL WHERE ROCK EXCAVATION IS ENCOUNTERED.



ZONE 4 - COMPACTED DGA
ZONE 3 - NO. 9, 57, OR 78 STONE
ZONE 2 - 12" MIN. NO. 9 STONE
ZONE 1 - NO. 9 STONE

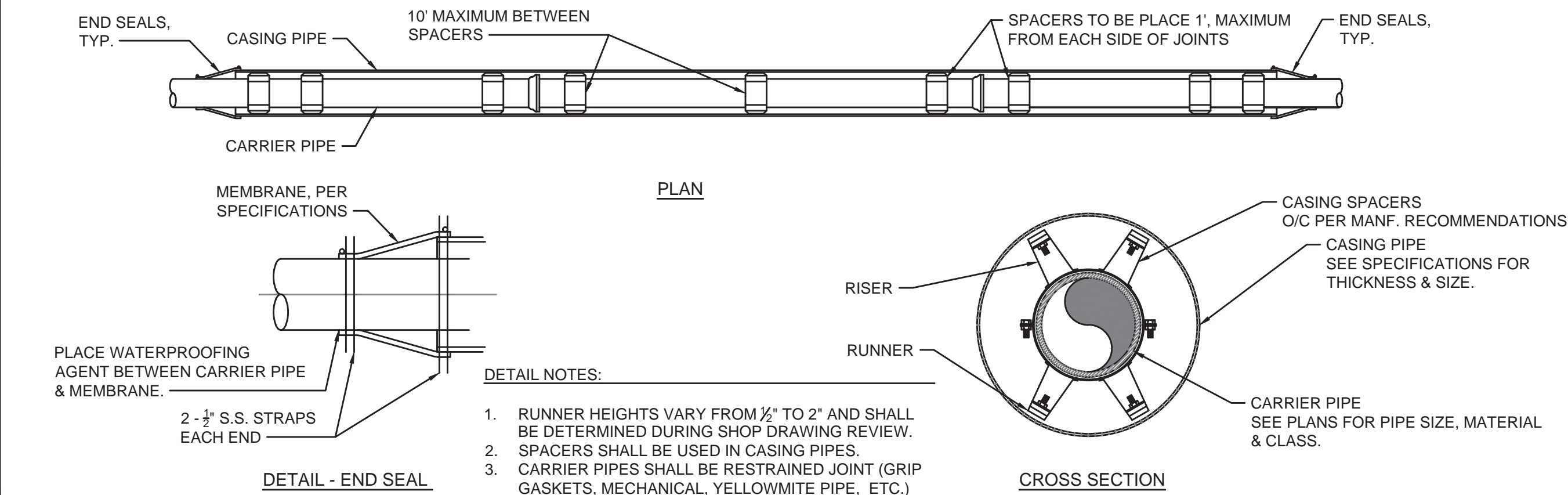
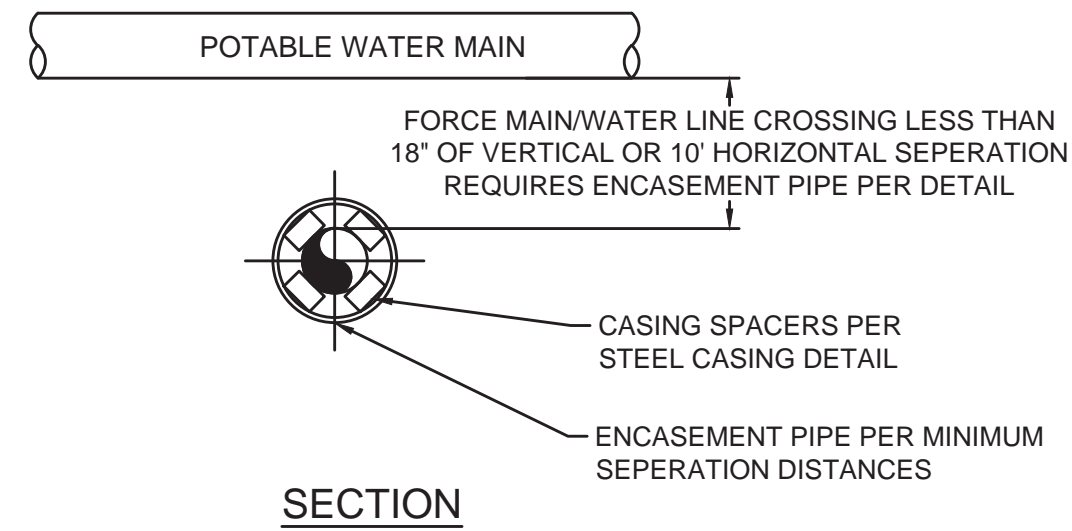
PIPE BACKFILL - DETAIL

NOT TO SCALE



POTABLE WATER LINE & FORCE MAIN CROSSING - DETAIL

NOT TO SCALE



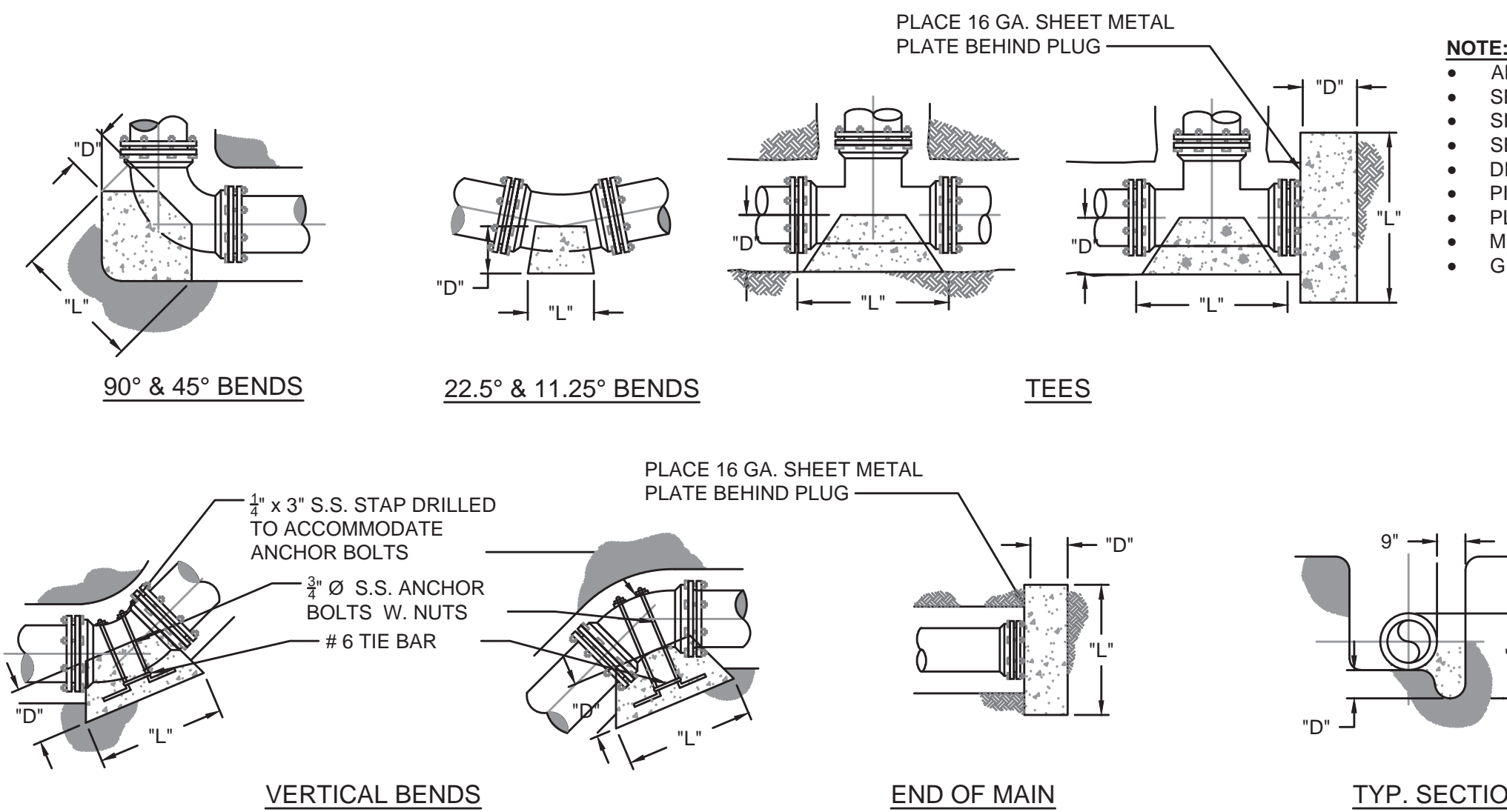
CASING - DETAIL

NOT TO SCALE

PIPE SIZE	90° BEND												45° BEND												22 1/2° BEND												11 1/2° BEND												TEE & DEAD ENDS											
	BEARING AREA		YDS OF CONCRETE		D	W	L	BEARING AREA		YDS OF CONCRETE		D	W	L	BEARING AREA		YDS OF CONCRETE		D	W	L	BEARING AREA		YDS OF CONCRETE		D	W	L	BEARING AREA		YDS OF CONCRETE		D	W	L																									
4"	3.750		.21		18	30	18	1.750		.10		18	18	14	1.000		.06		18	12	12	.500		.02		12	12	6	2.250		.13		18	18	18																									
6"	7.000		.39		18	42	24	3.750		.21		18	30	18	2.000		.11		18	24	12	1.000		.04		12	12	12	5.000		.28		18	30	24																									
8"	12.250		.91		24	42	42	7.500		.56		24	36	30	4.000		.30		24	24	24	2.000		.11		18	24	12	9.000		.67		24	36	36																									
10"	20.000		1.48		24	60	48	10.500		.78		24	42	36	6.000		.44		24	36	24	3.000		.17		18	24	18	14.000		1.04		24	48	42																									
12"	30.000		2.78		30	72	60	15.750		1.46		30	54	42	7.500		.69		30	36	30	4.000		.30		24	24	24	20.000		1.85		30	60	48																									
14"	39.000		4.33		36	78	72	20.000		2.22		36	60	48	10.500		1.17		36	42	36	6.000		.56		30	36	24	27.500		3.06		36	66	60																									
16"	49.000		6.35		42	84	84	27.500		3.56		42	66	60	14.000		1.81		42	48	42	7.500		.83		36	36	30	37.750		4.63		42	78	66																									

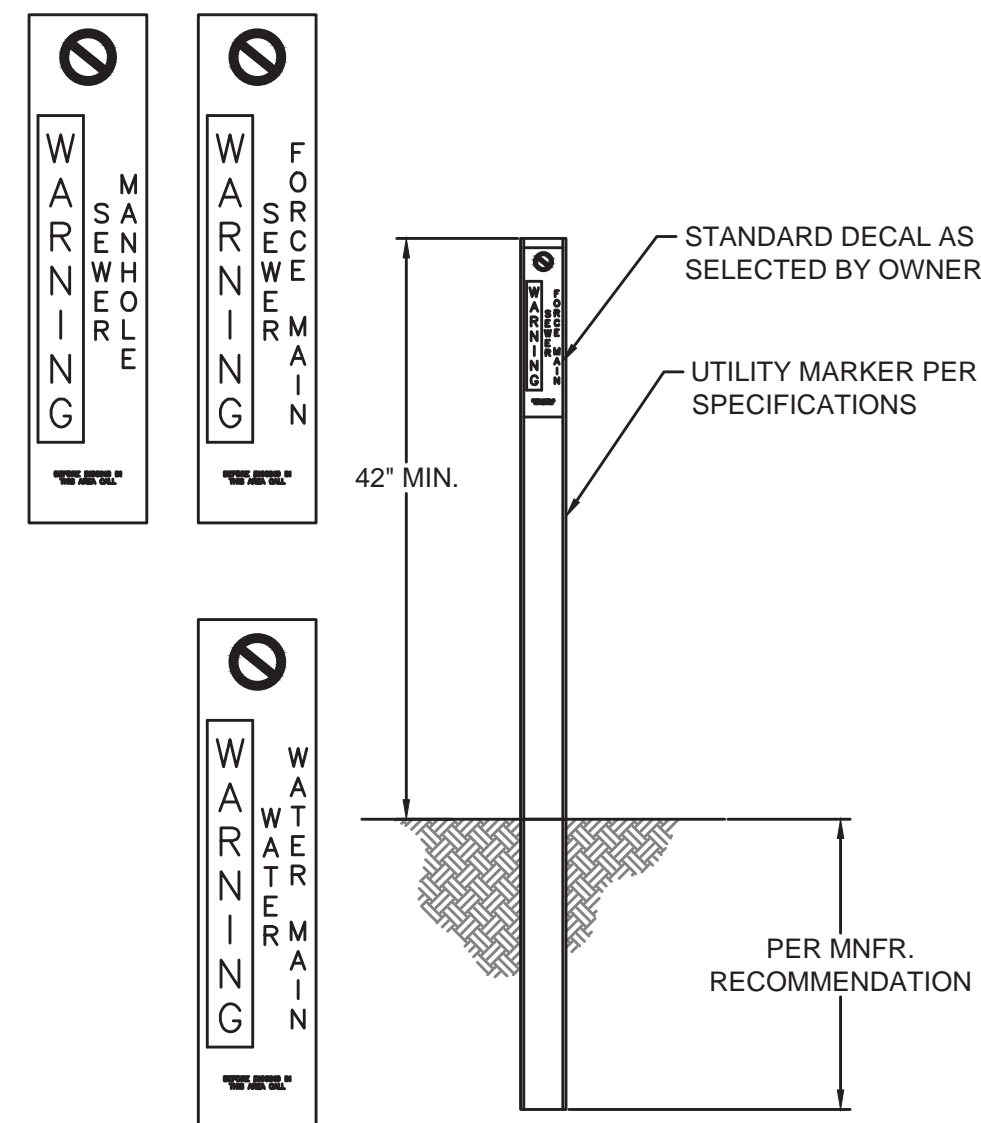
NOTE:

- ALL CONCRETE SHALL BE A MIN. OF 3,500 PSI
- SEE PLAN SHEETS FOR SIZE, MATERIAL & LOCATION OF PIPE.
- SIDES OF ALL TRENCHES TO BE UNDISTURBED SOIL.
- SEE THIS SHEET FOR BACK FILL DETAILS.
- DEPTH 'D' MAY NOT BE SMALLER THAN SPECIFIED.
- PIERS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- PLACE CONCRETE ANCHORS 25' C/C.
- M.J. FITTING(S) SHALL BE WRAPPED IN PLASTIC WRAP
- GRIP RINGS SHALL BE USED ON ALL FITTINGS



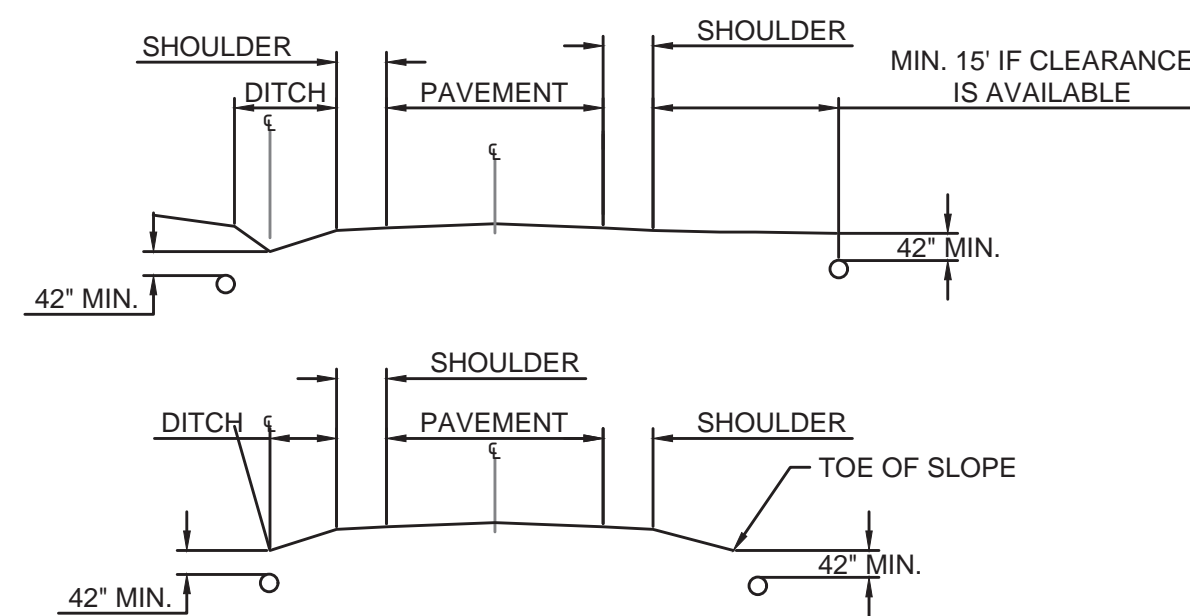
CONCRETE THRUST BLOCK - DETAIL

NOT TO SCALE



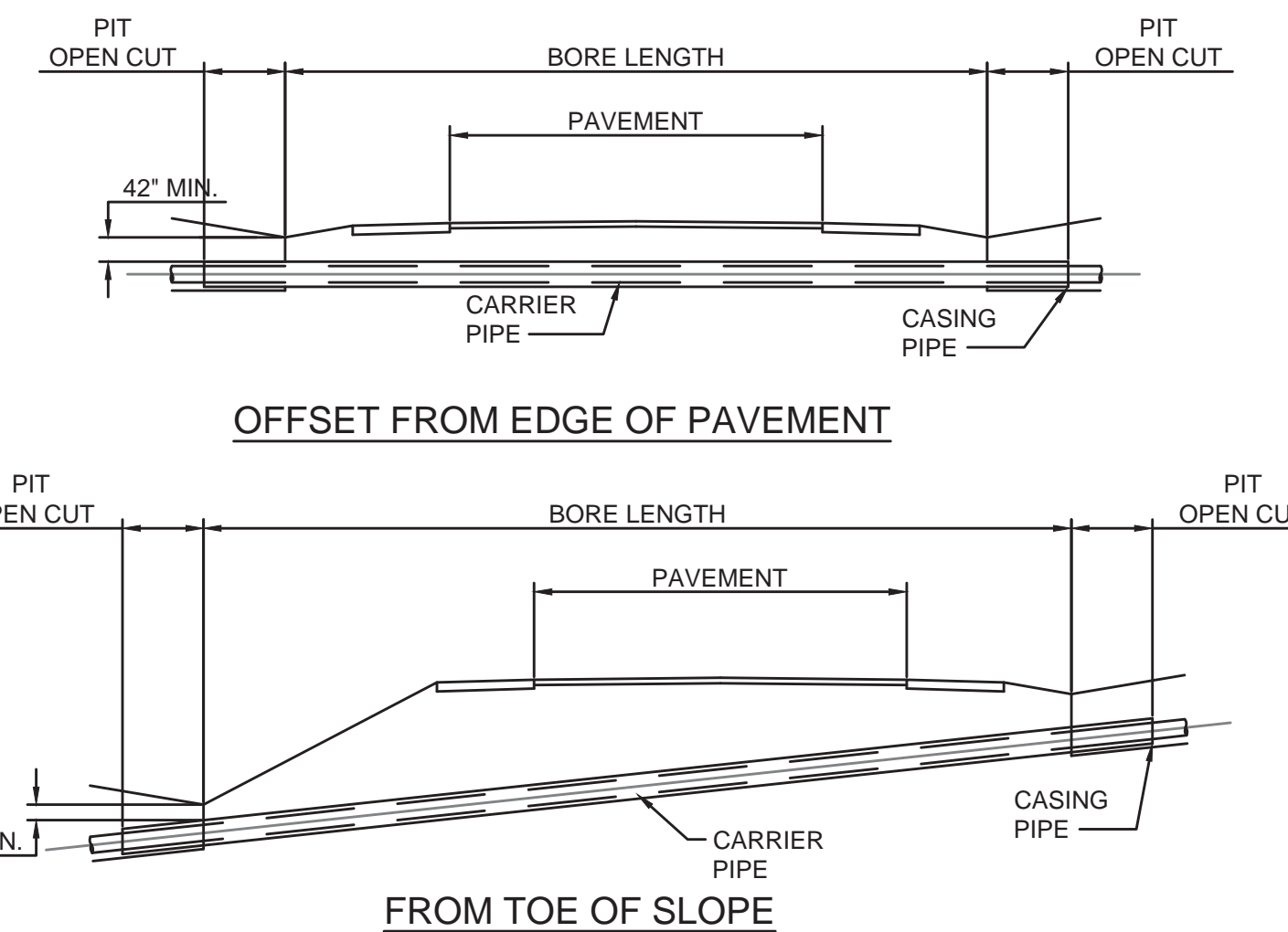
UTILITY MARKER - DETAIL

NOT TO SCALE



UTILITY PIPELINE WITHIN KTC ROW - DETAIL

NOT TO SCALE



KTC CROSSING - DETAIL

NOT TO SCALE

NOTE:

- ALL JOINTS OF STEEL CASING SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
- MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPERATION WITH OTHER FACILITIES.
- OPEN TRENCH NO CLOSER THAN THE DITCHLINE OR TOE OF FILL FROM THE EGDE OF THE PAVEMENT OR AS DIRECTED BY THE SPECIFICATIONS.
- HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES WALL THICKNESS & DIAMETER PER SPECIFICATIONS. ALL BORED AND JACKED ENCASEMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THEN THE OUTSIDE DIA-METER OF THE ENCASEMENT PIPE.
- SEE CASING SPACER DETAIL FOR PLACEMENT OF SPACER.

NO.	DATE	BY	REVISIONS

2019 WATER SYSTEM IMPROVEMENTS PROJECT

STANDARD DETAILS - PIPE LINES



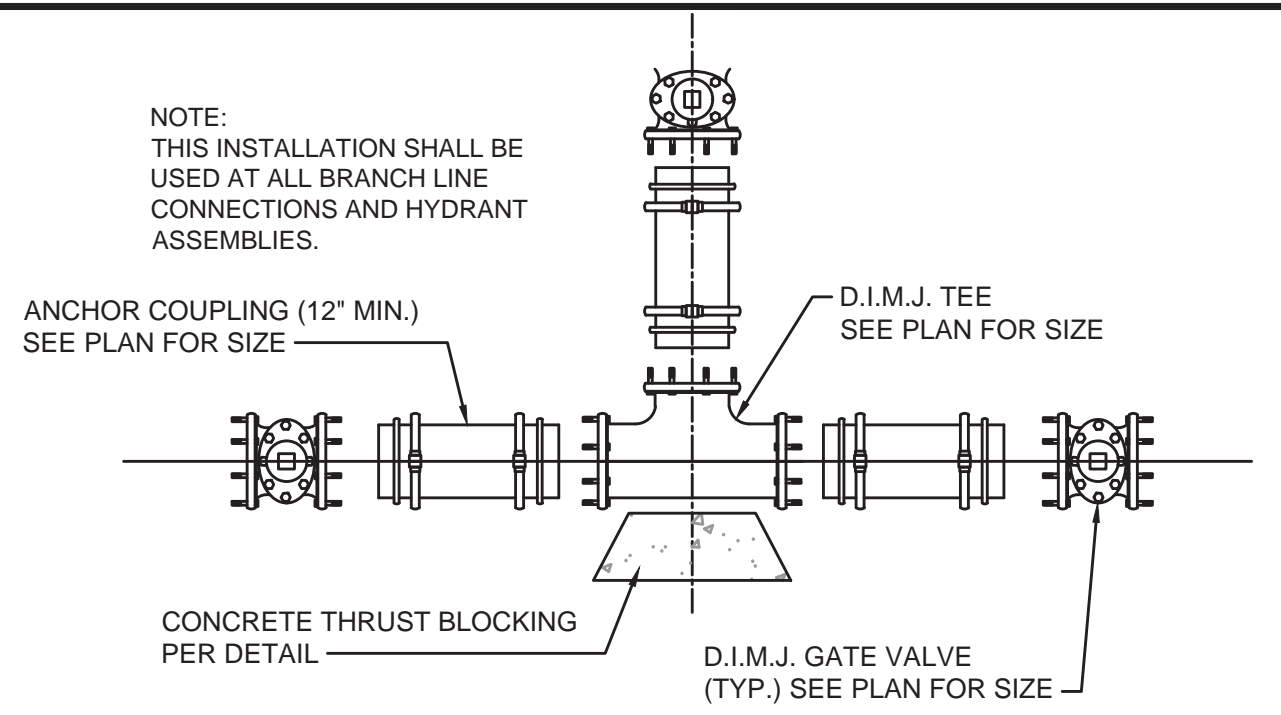
PROJECT #: 19003
DATE: APRIL 2022
PROJECT MGR: BKL
DRAWN BY: WJH
CHECKED BY: LRS



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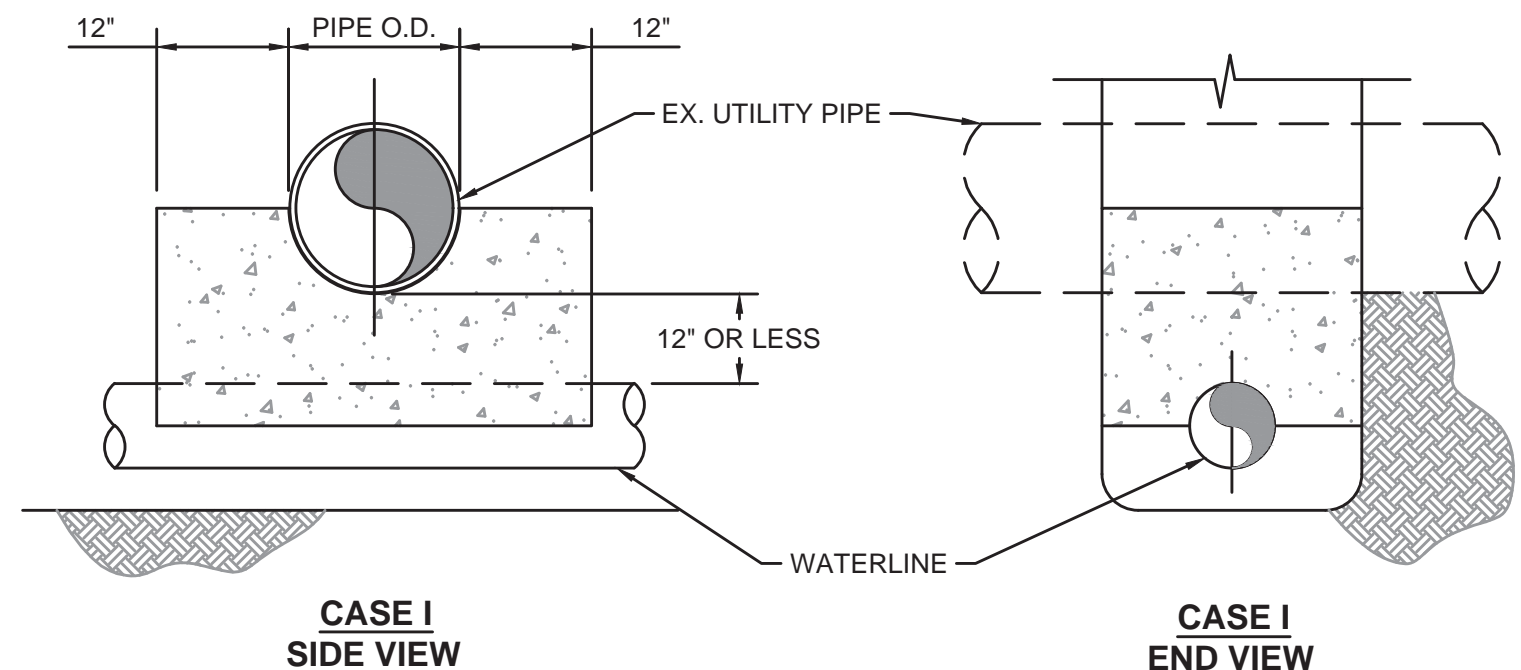
BE 406/22
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D.I.M.J. TEE ASSEMBLY - DETAIL

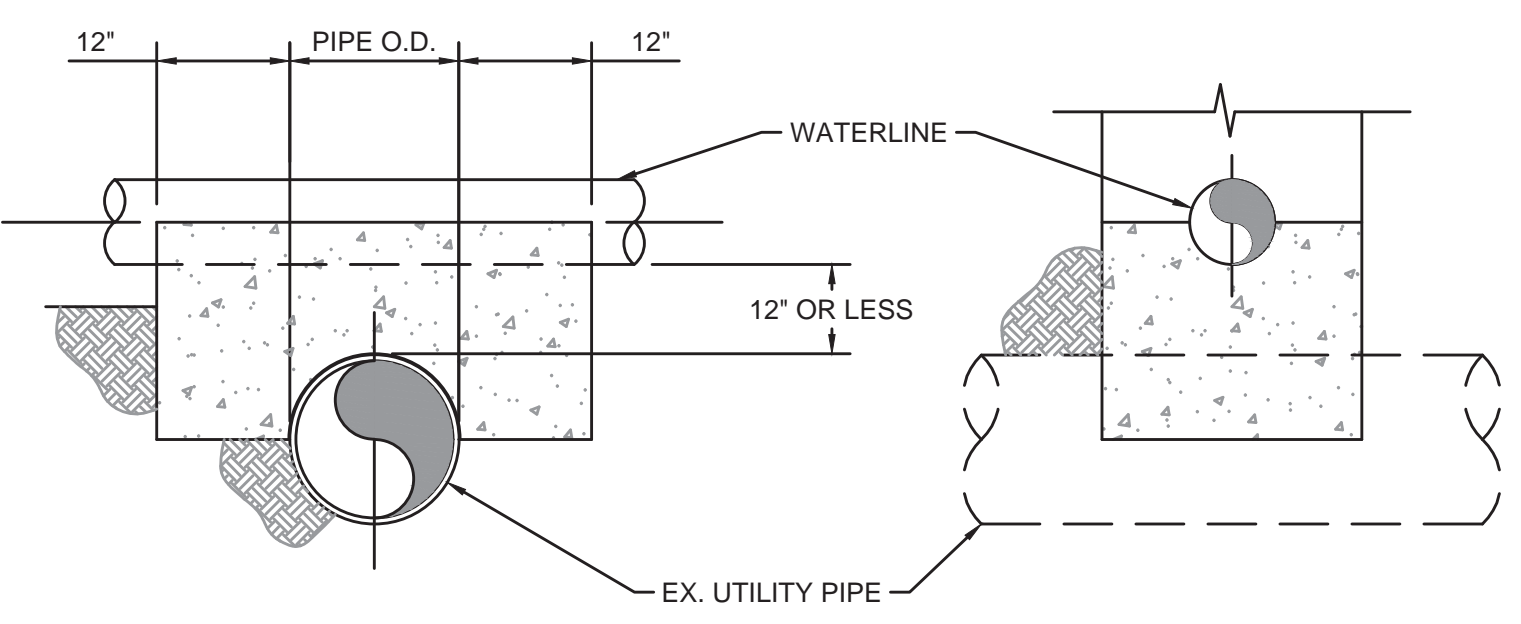
NOT TO SCALE

- NOTES:
1. THIS DETAIL IS ONLY FOR NON-CONTAMINATE PIPE/CONDUIT. UTILITY PIPE IS DEFINED AS WATER, NATURAL GAS, TELEPHONE, ELECTRICAL CONDUITS OR STORM SEWER.
 2. IF "UTILITY PIPE" IS A SANITARY SEWER PIPE (FORCE MAIN OR GRAVITY) SEE DETAIL FOR POTABLE WATER & FORCE MAIN CROSSING.
 3. CONCRETE SEPARATOR SHALL BE USED WHEN CLEARANCE BETWEEN NEW WATERLINE & EXISTING UTILITY PIPE/CONDUIT IS LESS THAN 12".



CASE I SIDE VIEW

CASE I END VIEW



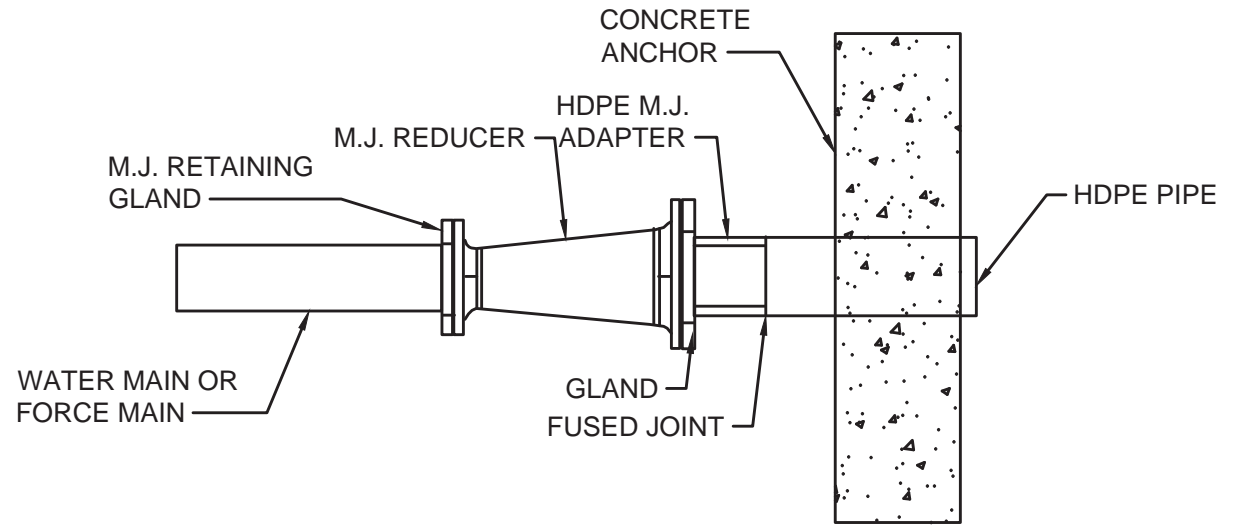
CASE II SIDE VIEW

CASE II END VIEW

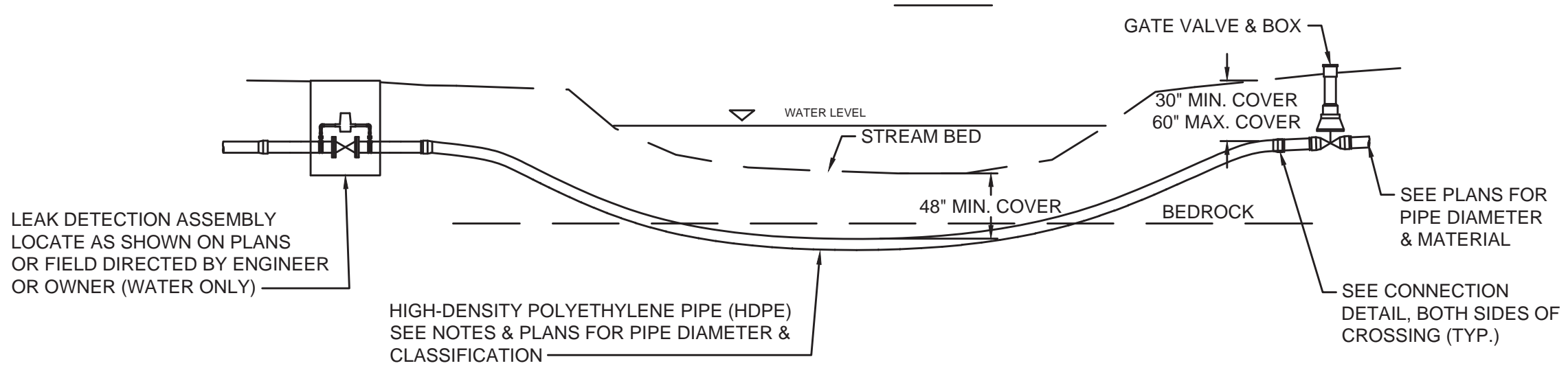
UTILITY CROSSING CONCRETE ASSEMBLY - DETAIL

NOT TO SCALE

- NOTES:
1. CONNECTION OF THE HDPE TO THE PVC OR DUCTILE IRON WATERLINE SHALL BE NO DEEPER THAN 5 FEET FROM THE GROUND ELEVATION.
 2. DIRECTIONAL BORE SHALL BE MADE IN BED ROCK WITH A MIN DEPTH OF 36".
 3. WHEN USING HDPE THE PIPE SHALL BE SIZED UP ONE PIPE SIZE TO ALLOW THE I.D. OF THE HDPE TO EQUAL THE I.D. OF THE CONNECTING PIPE.
 4. SEE PLANS FOR PIPE LOCATION, MATERIAL & SIZE.
 5. USE ANGLED FITTINGS AS NECESSARY TO MAKE CONNECTION BETWEEN PIPES.

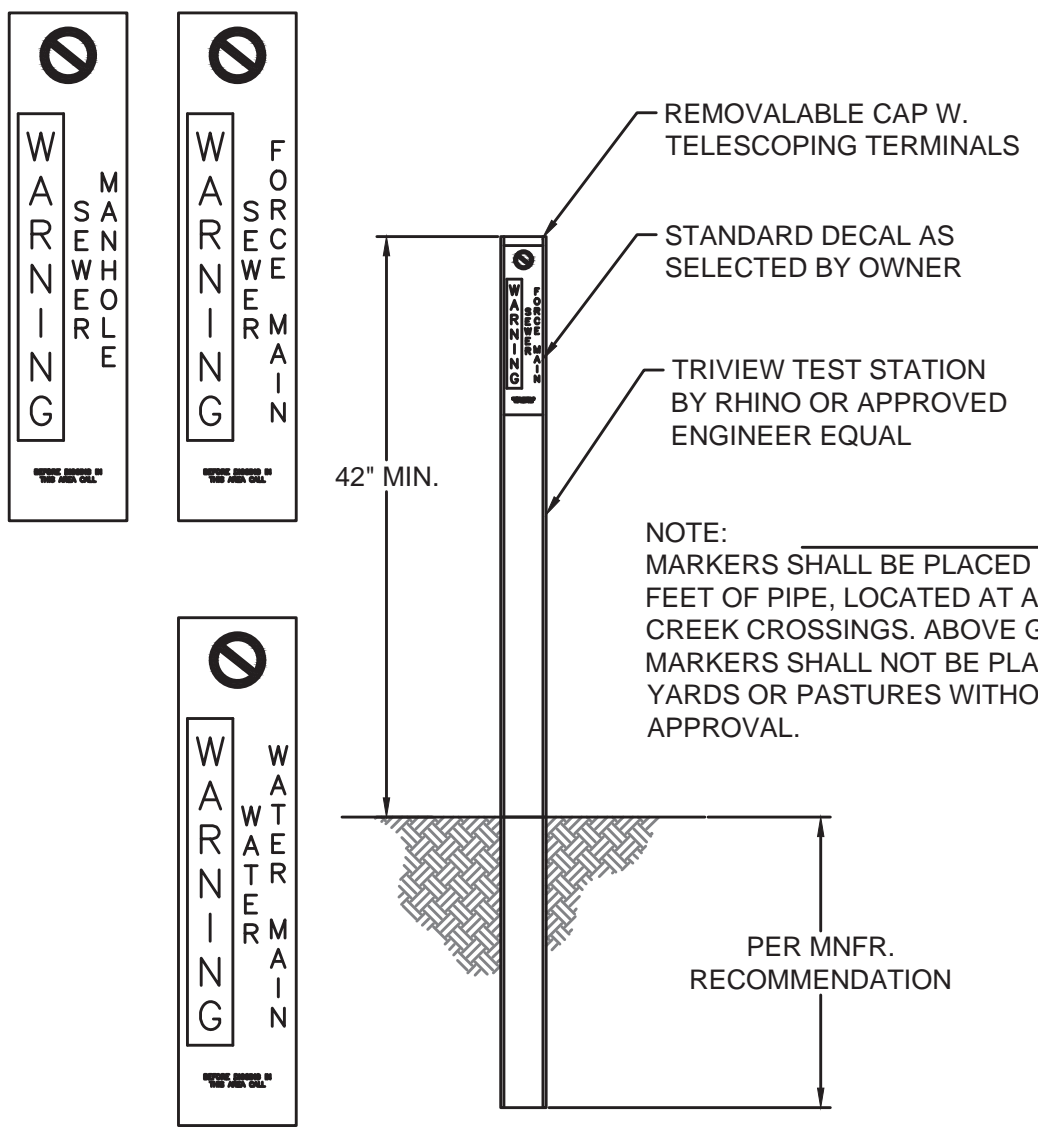


CONNECTION DETAIL



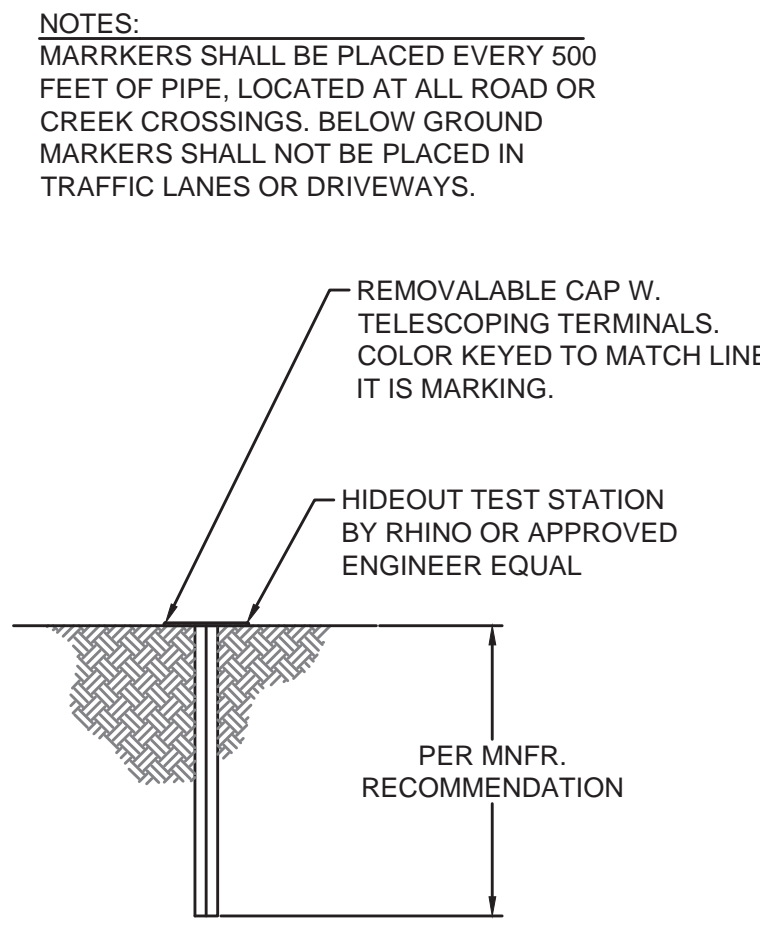
DIRECTIONAL DRILLED CREEK CROSSING - DETAIL

NOT TO SCALE



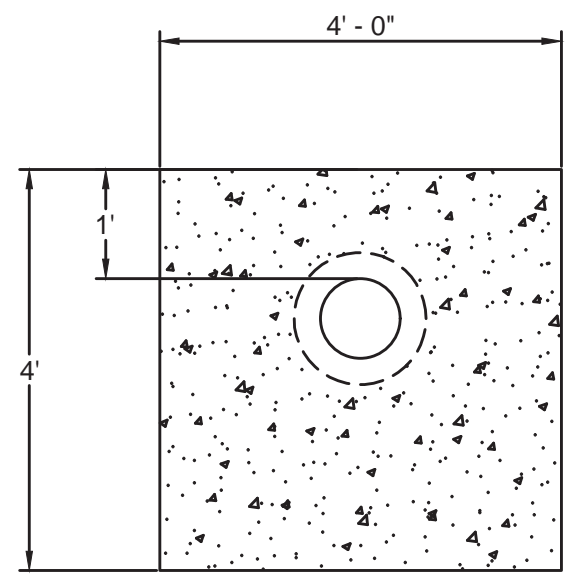
ABOVE GROUND TEST STATION - DETAIL

NOT TO SCALE

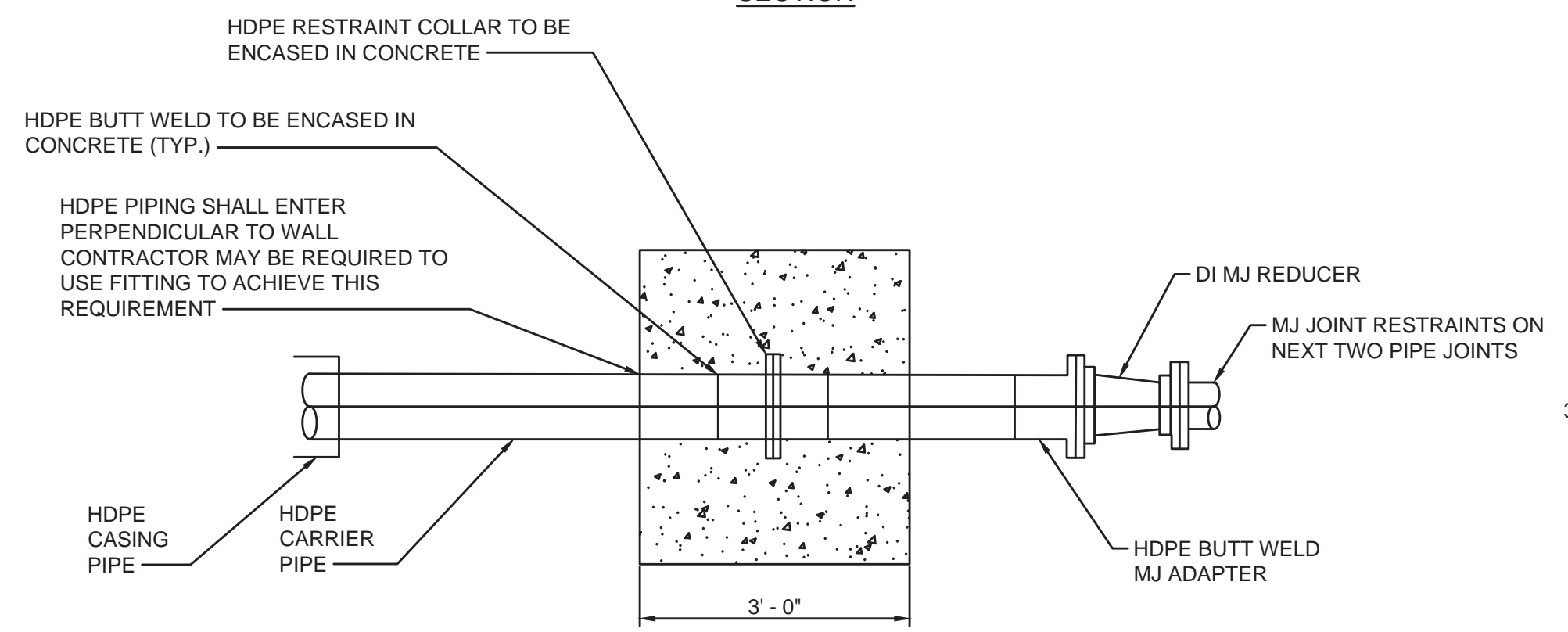


BELOW GROUND TEST STATION - DETAIL

NOT TO SCALE

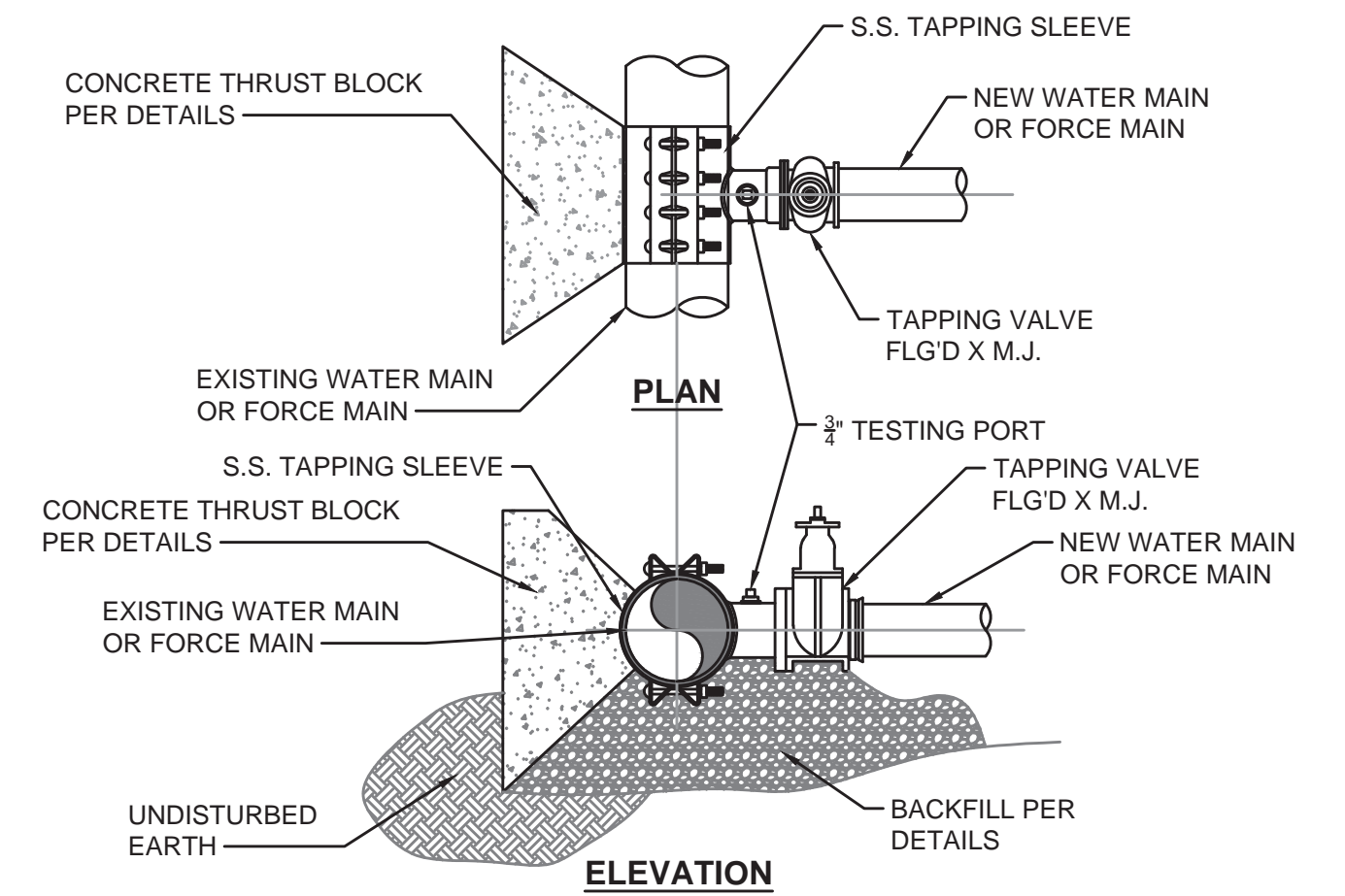


SECTION



HDPE RESTRAINT WALL

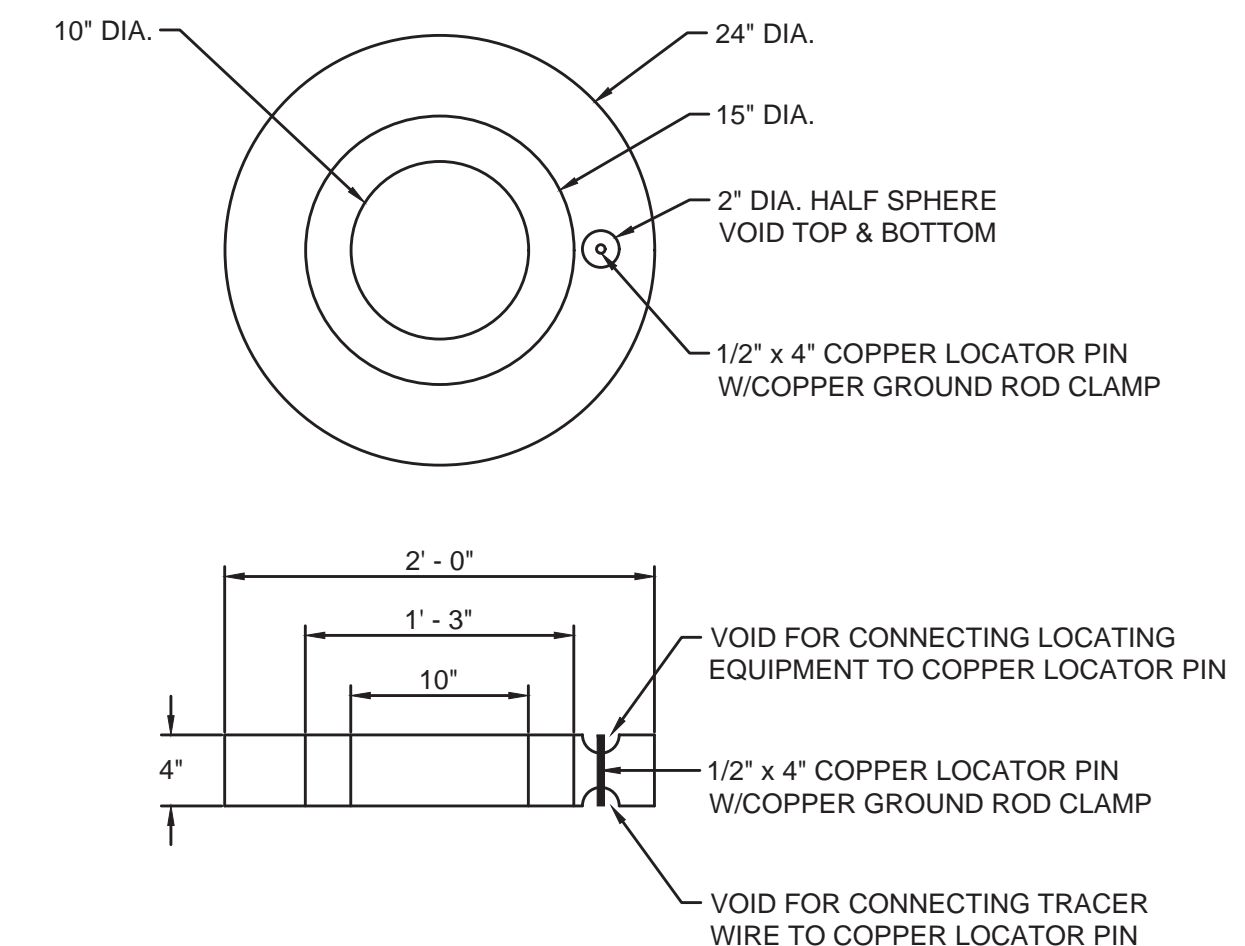
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STAINLESS STEEL TAPPING SLEEVE & VALVE ASSEMBLY - DETAIL

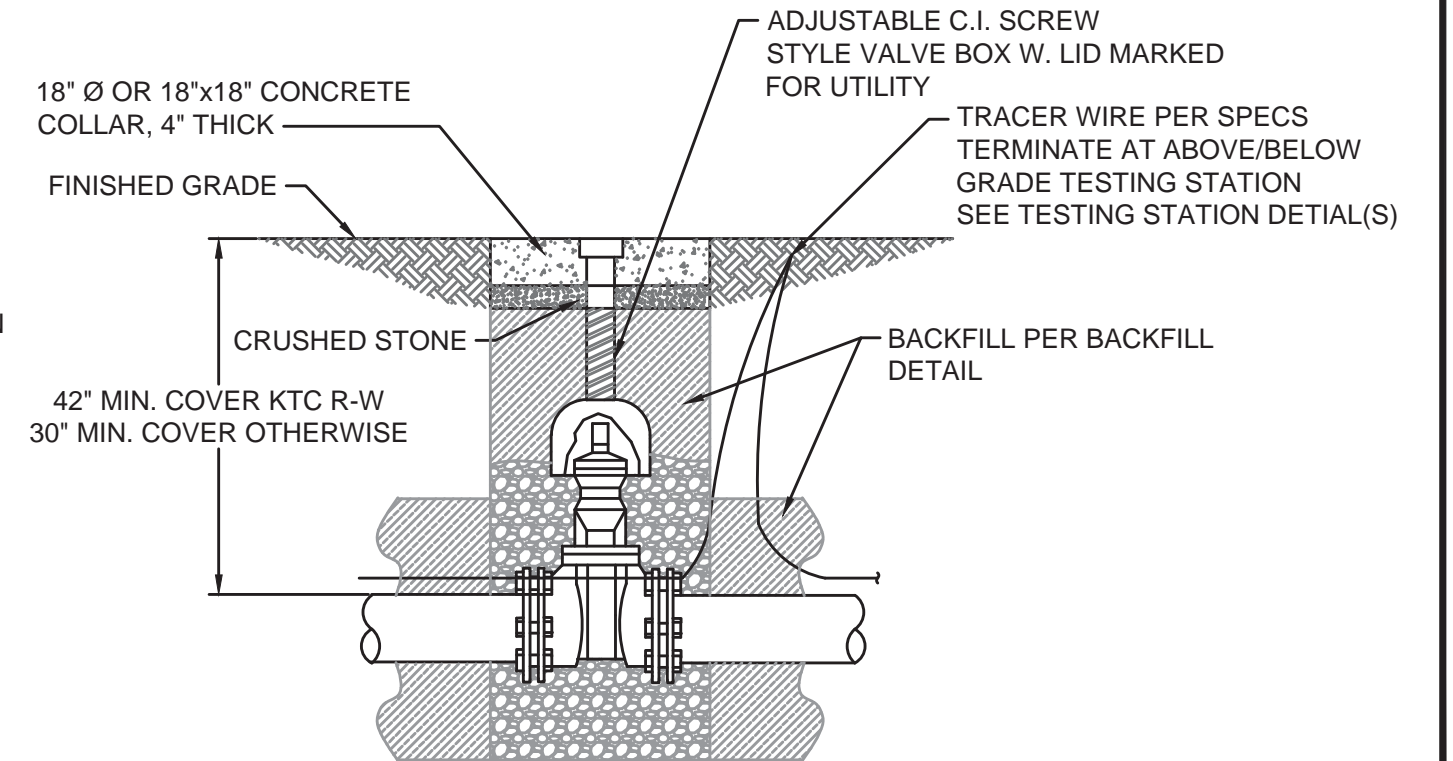
NOT TO SCALE

- NOTE:
- TAPPING SLEEVE & VALVE TO BE TESTED PER MANUFACTURERS RECOMMENDATIONS
 - NO SIZE FOR SIZE TAPPING SLEEVE ALLOWED WITHOUT WRITTEN APPROVAL OF MUPB.



24\"/>

NOT TO SCALE



GATE VALVE ASSEMBLY - DETAIL

NOT TO SCALE

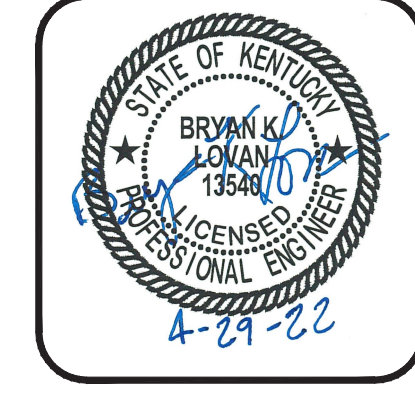
NO.	DATE	BY	REVISIONS

2019 WATER SYSTEM IMPROVEMENTS PROJECT
 STANDARD DETAILS - PIPE LINES

SANDY HOOK WATER DISTRICT
 Serving Our Community

BLUEGRASS ENGINEERING, PLLC
 222 East Main Street, Ste. 1 - Georgetown, KY 40324

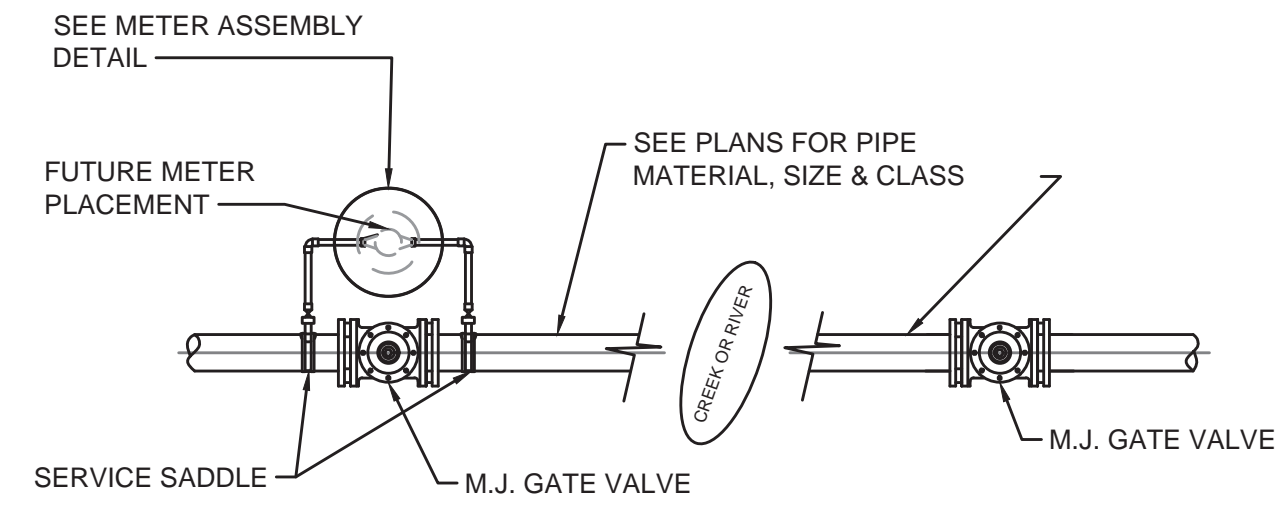
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DATE:	APRIL 2022
PROJECT MGR:	BKL
DRAWN BY:	WJH
CHECKED BY:	LRS



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LEAK DETECTION ASSEMBLY - DETAIL

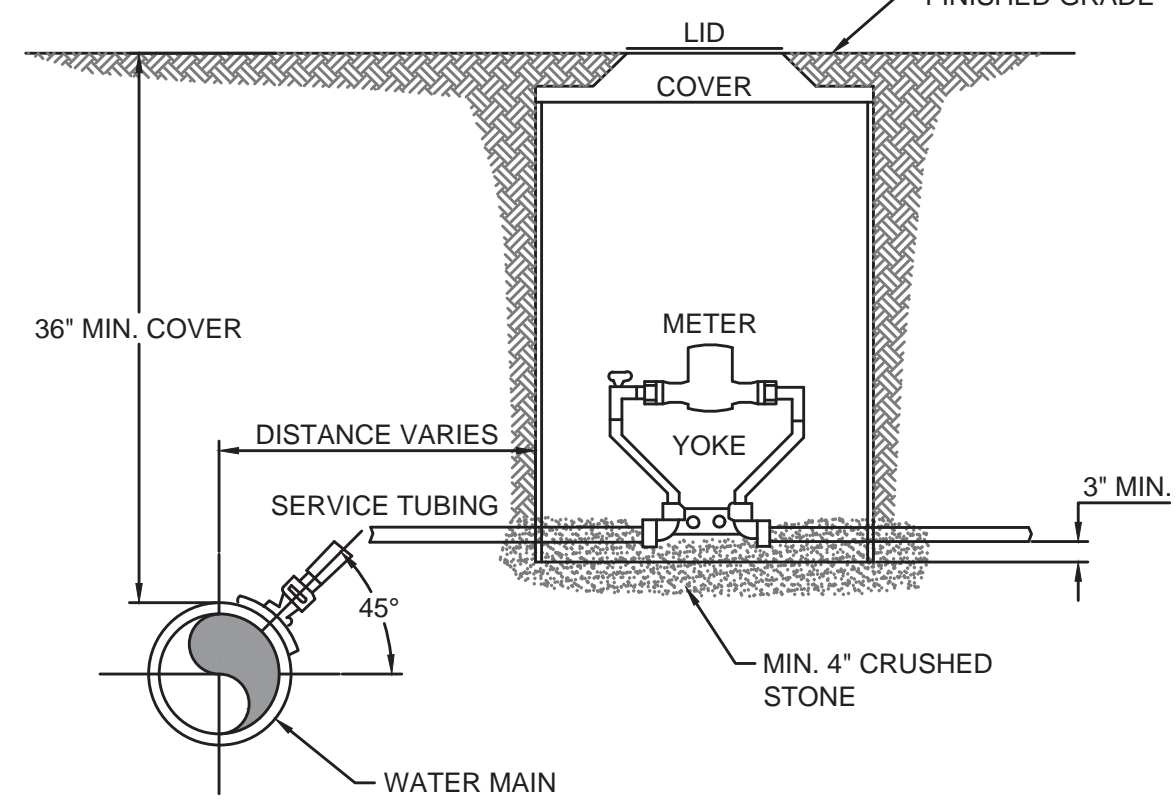
NOT TO SCALE

NOTE:

1. CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING PERMITS & ASSOCIATED COSTS.
2. SEE SPECIFICATIONS REGARDING SPECIFIC MAKE, MODEL, TYPE & STYLE OF FITTINGS, METER, METER BOX, COPPER SETTERS, IPRVs, BOX LID, ETC.
3. INDIVIDUAL PRESSURE REDUCING VALVES REQUIRED ON ALL METERS WHERE PRESSURE EXCEEDS 90 PSI.
4. TRACER WIRE TO BE CONNECTED TO WATER MAIN TRACER WIRE AND RAN ON NEW SERVICE TUBING AND TERMINATING IN THE METER BOX.

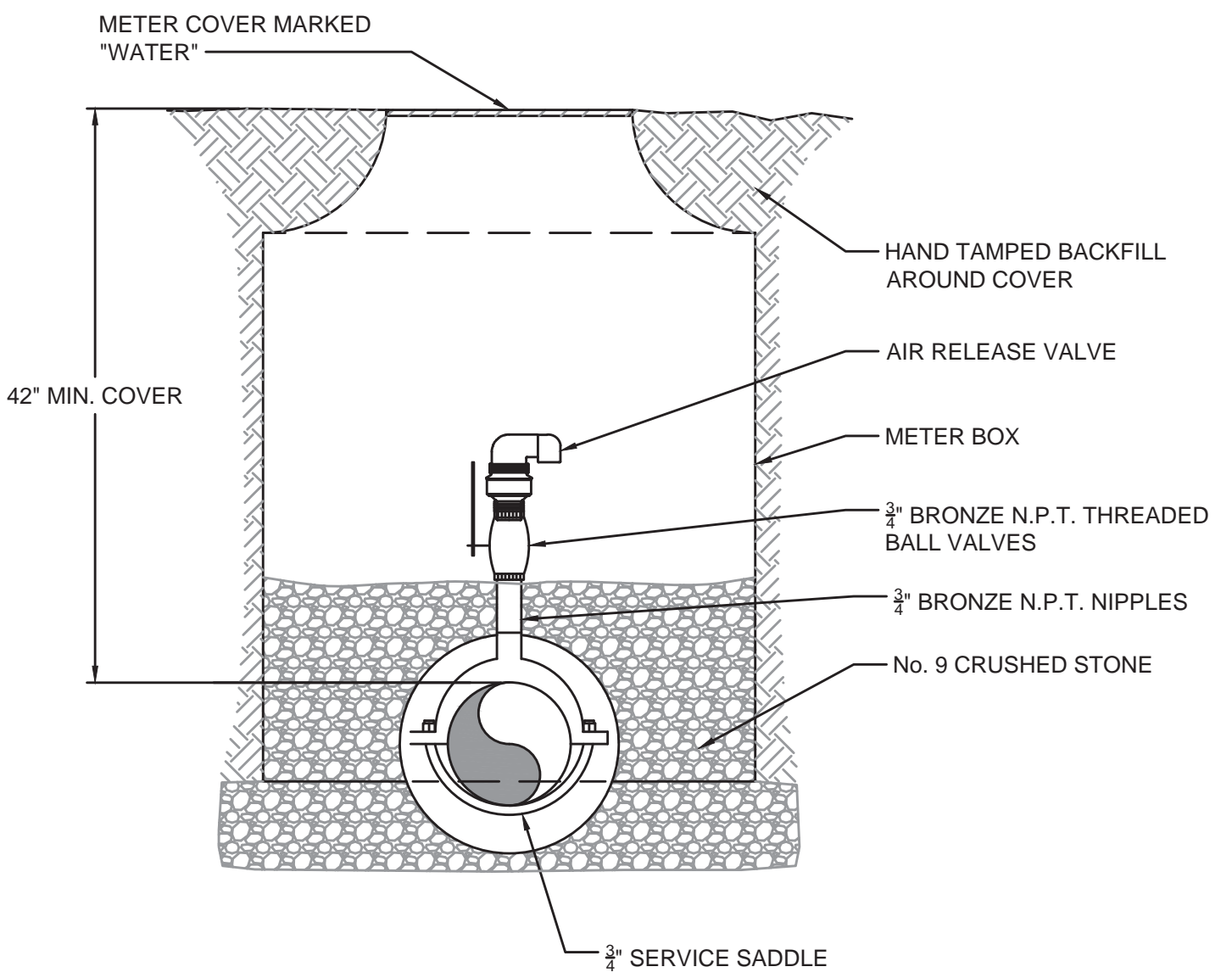
METER MATERIAL SCHEDULE

1. YOKE-SEE SPECIFICATIONS
2. METER BOX-SEE SPECIFICATIONS
3. COVER-SEE SPECIFICATIONS
4. METER-SEE SPECIFICATIONS
5. INDIVIDUAL PRESSURE REDUCING VALVE (IPRV)-SEE SPECIFICATIONS
6. CORPORATION STOP-SEE SPECIFICATION
7. SERVICE SADDLE-SEE SPECIFICATION



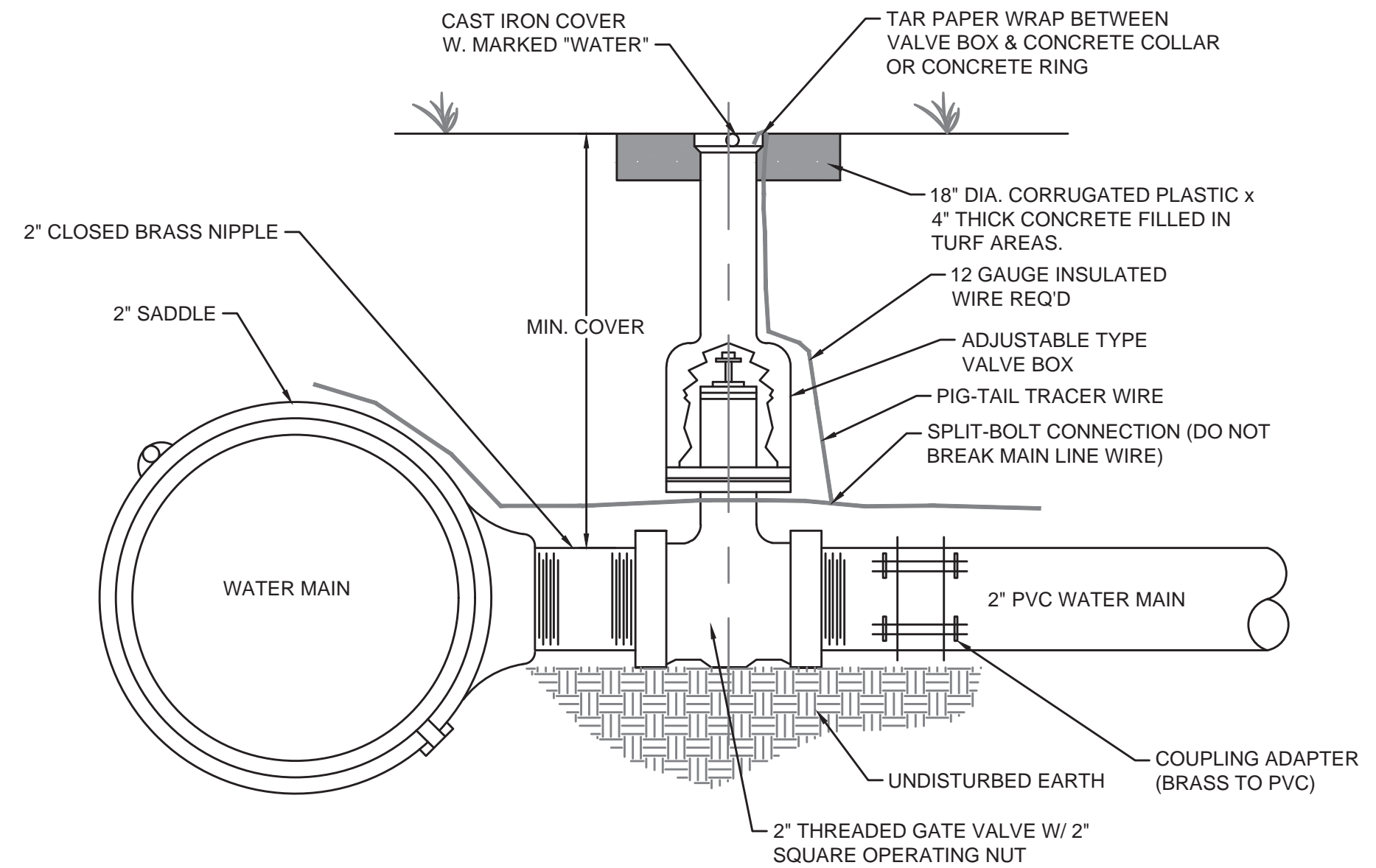
METER ASSEMBLY - DETAIL

NOT TO SCALE



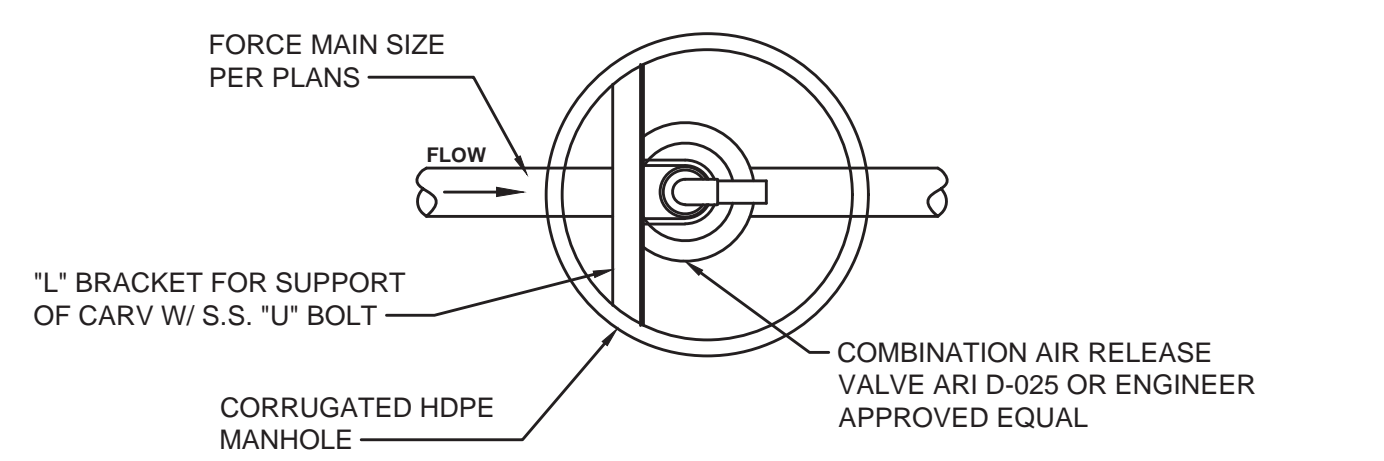
AIR RELEASE VALVE ASSEMBLY WATERLINE ONLY - DETAIL

NOT TO SCALE

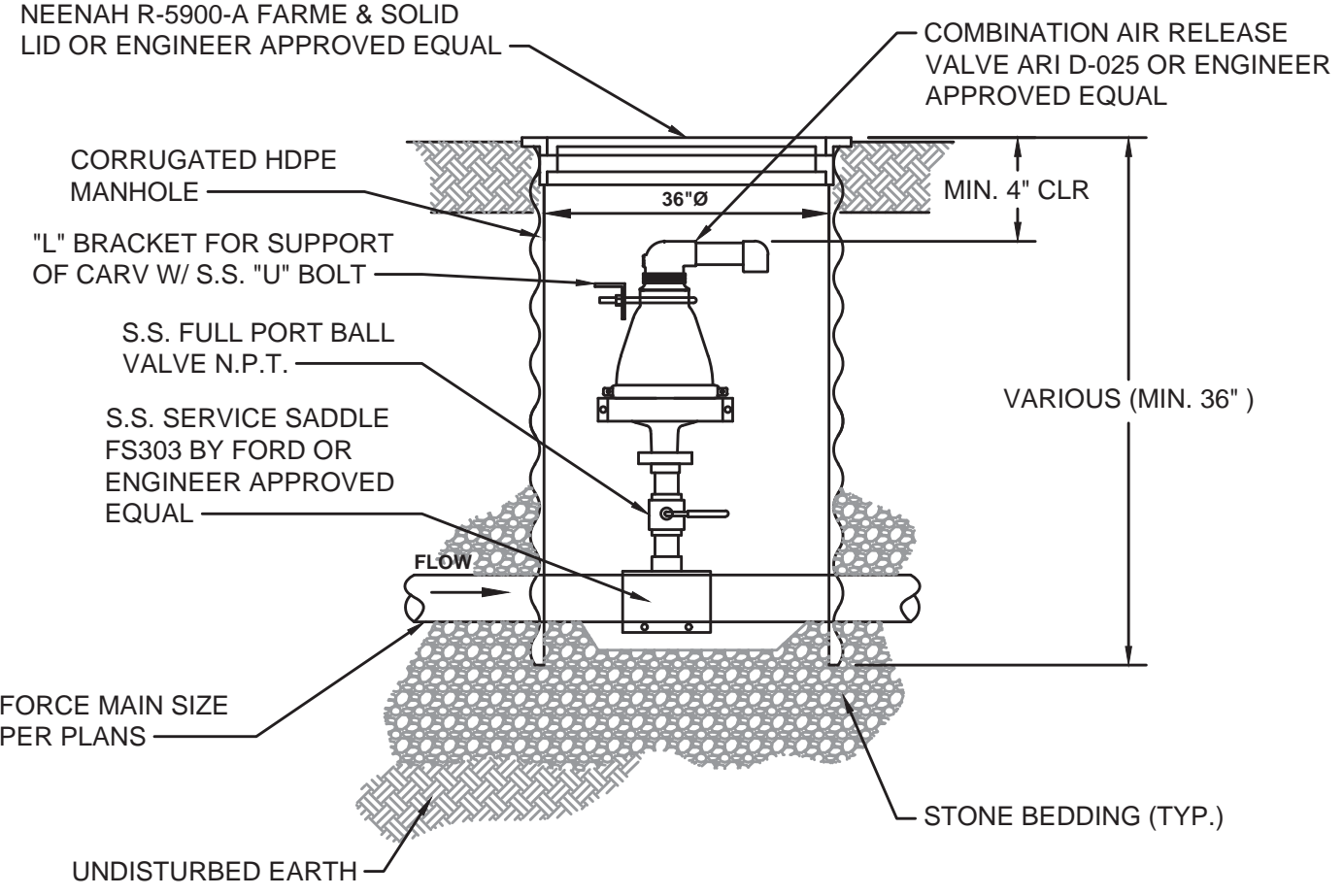


CONNECTION FOR 2\"/>

NOT TO SCALE



PLAN

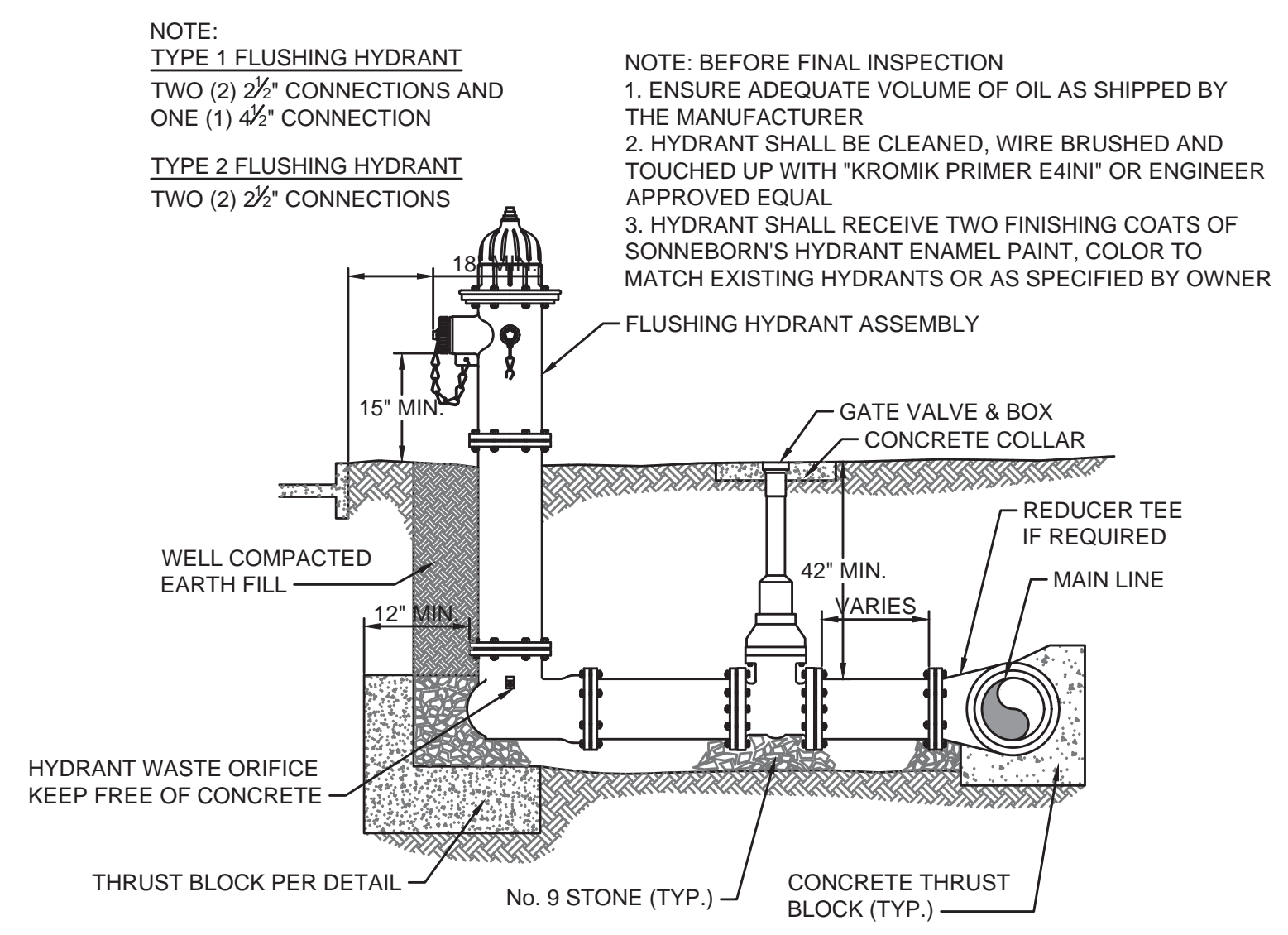


ELEVATION

SANITARY SEWER AIR & VACUUM RELEASE VALVES SHALL BE A.R.I. MODEL D-025 OR ENGINEER APPROVED EQUAL W/2\"/>

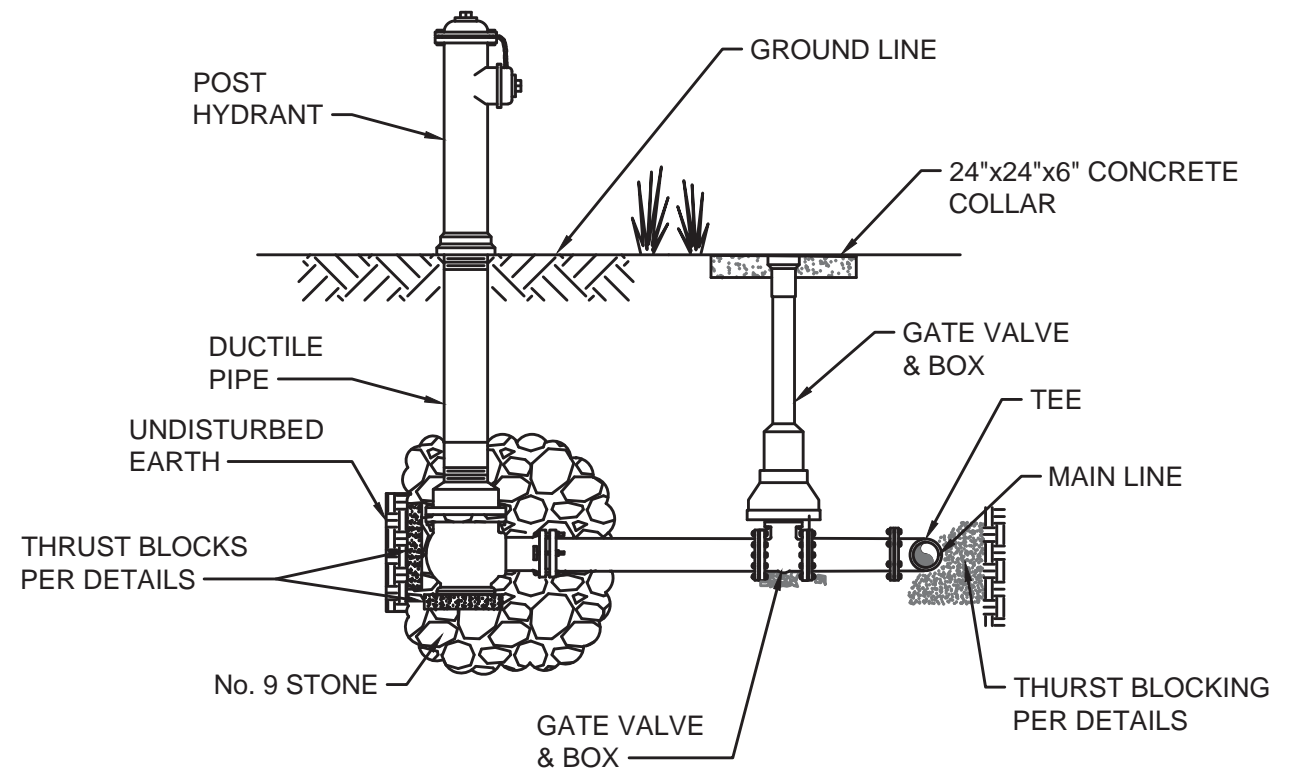
COMBINATION AIR RELEASE VALVE ASSEMBLY FORCE MAIN ONLY - DETAIL

NOT TO SCALE



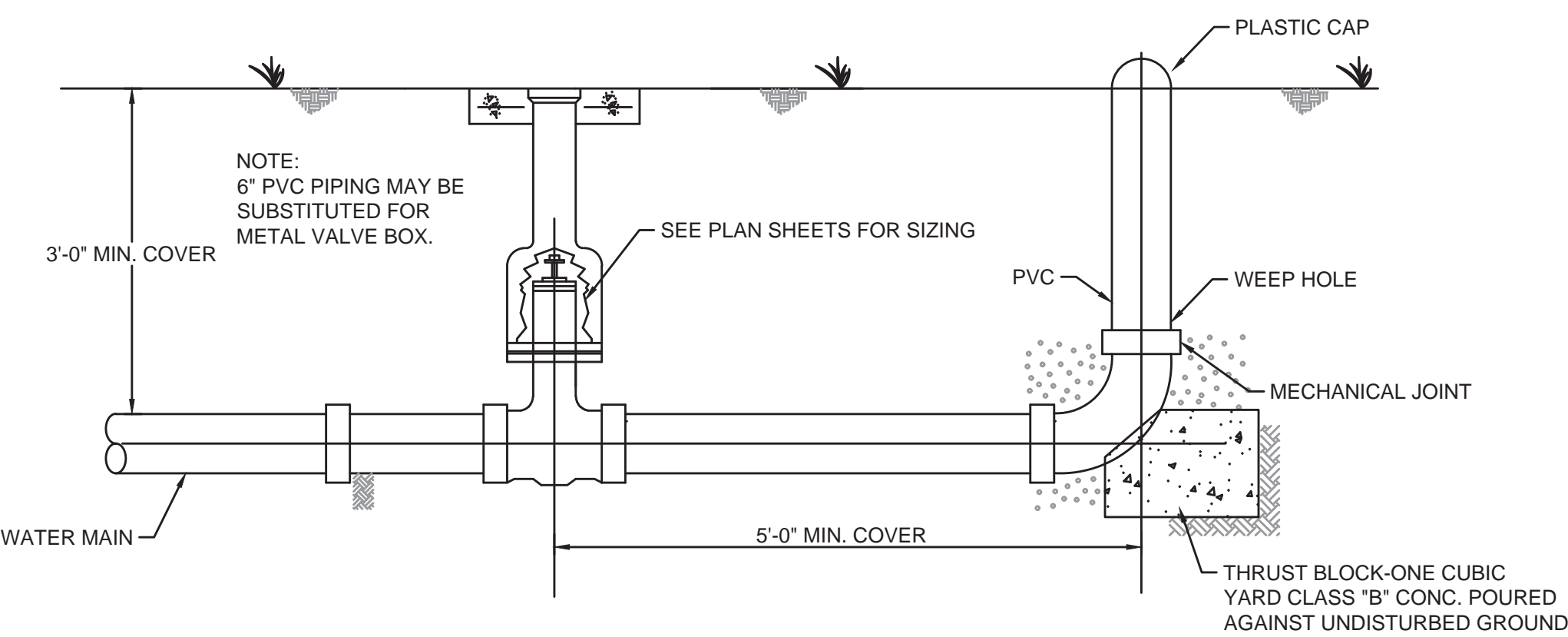
FLUSHING HYDRANT ASSEMBLY TYPE 1 & 2 - DETAIL

NOT TO SCALE



FLUSHING HYDRANT ASSEMBLY, TYPE 3 - DETAIL

NOT TO SCALE



E.O.L. 2\", 3\", OR 4\"/>

NOT TO SCALE

NOTE:
 TYPE 1 FLUSHING HYDRANT
 TWO (2) 2\"/>

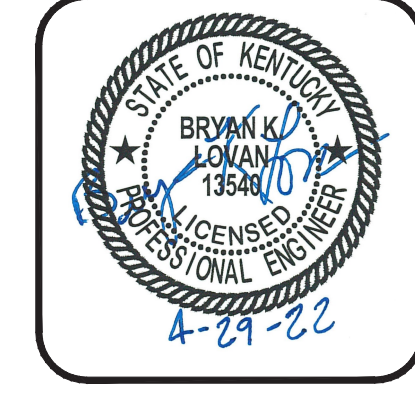
NOTE: BEFORE FINAL INSPECTION
 1. ENSURE ADEQUATE VOLUME OF OIL AS SHIPPED BY THE MANUFACTURER
 2. HYDRANT SHALL BE CLEANED, WIRE BRUSHED AND TOUCHED UP WITH 'KROMIK PRIMER E4INI' OR ENGINEER APPROVED EQUAL
 3. HYDRANT SHALL RECEIVE TWO FINISHING COATS OF SONNEBORN'S HYDRANT ENAMEL PAINT, COLOR TO MATCH EXISTING HYDRANTS OR AS SPECIFIED BY OWNER

NO.	DATE	BY

2019 WATER SYSTEM IMPROVEMENTS PROJECT
 STANDARD DETAILS - WATER LINES

SANDY HOOK WATER DISTRICT
 BLUEGRASS ENGINEERING, PLLC
 222 East Main Street, Ste. 1 - Georgetown, KY 40324
 Serving Our Community

PROJECT #:	19003
DATE:	APRIL 2022
PROJECT MGR:	BKL
DRAWN BY:	WJH
CHECKED BY:	LRS

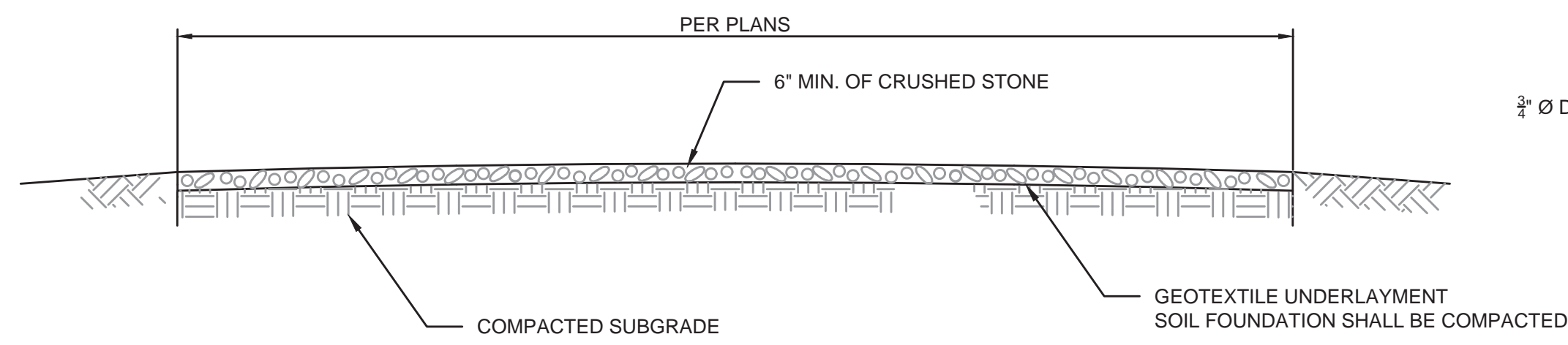


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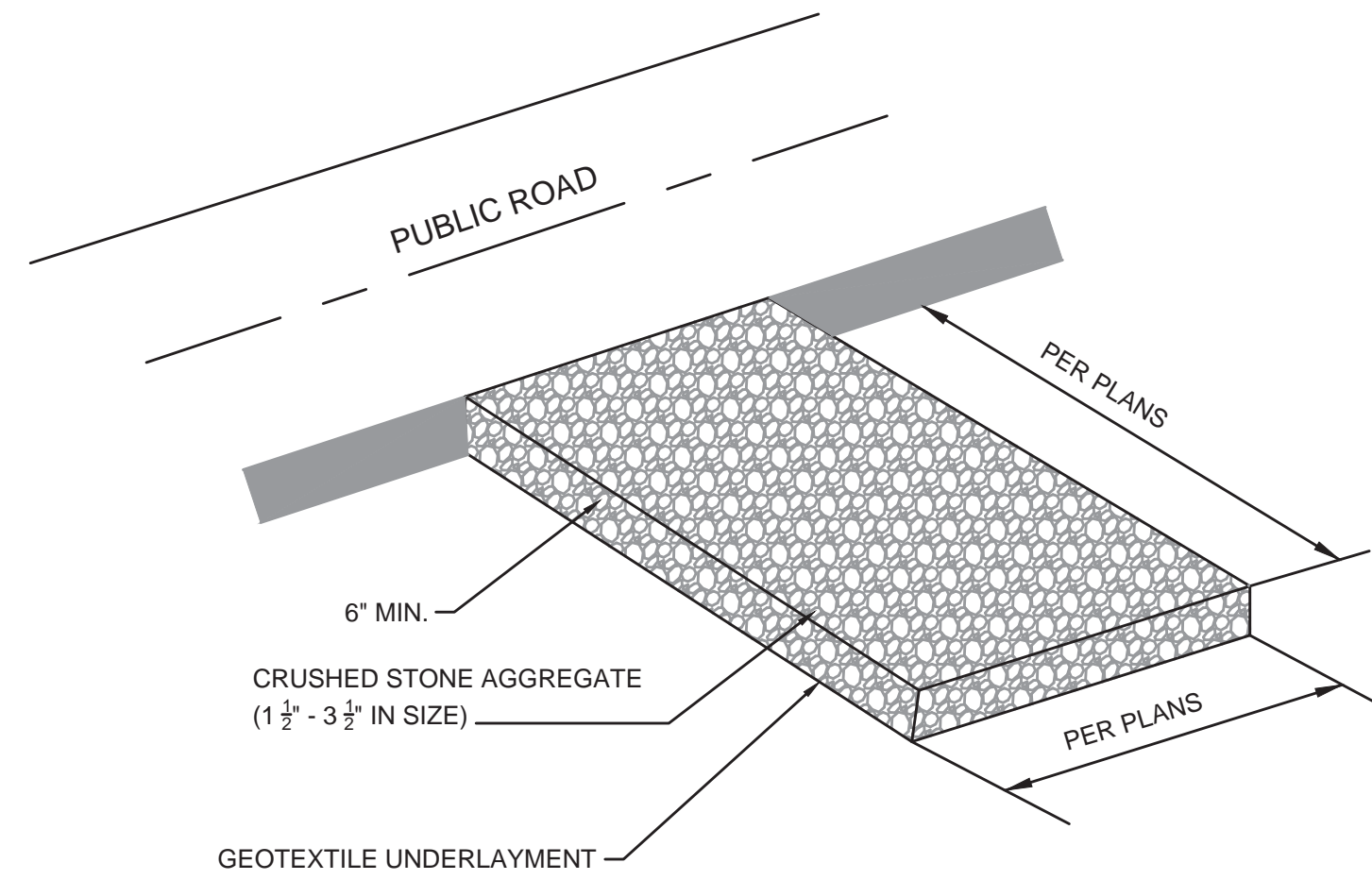
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STABILIZED CONSTRUCTION ENTRANCE - SECTION

NOT TO SCALE

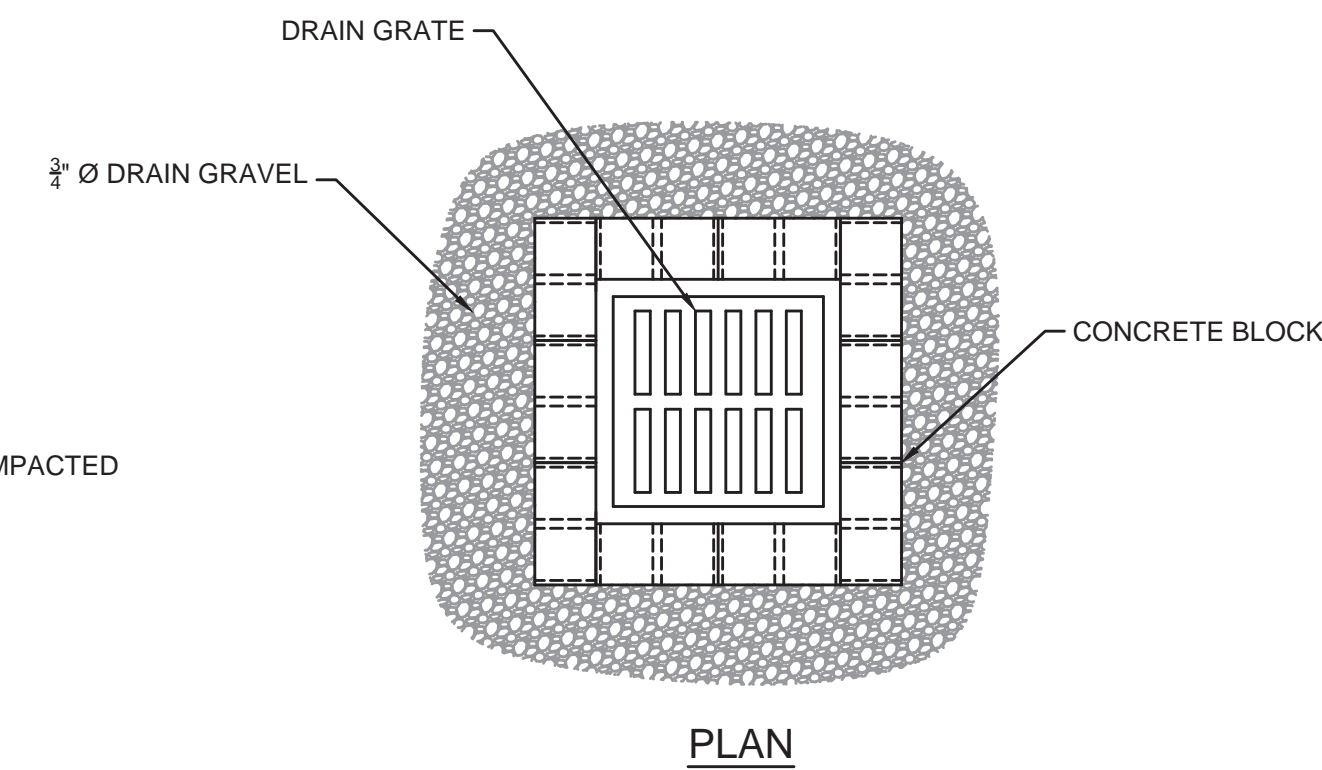


NOTES:

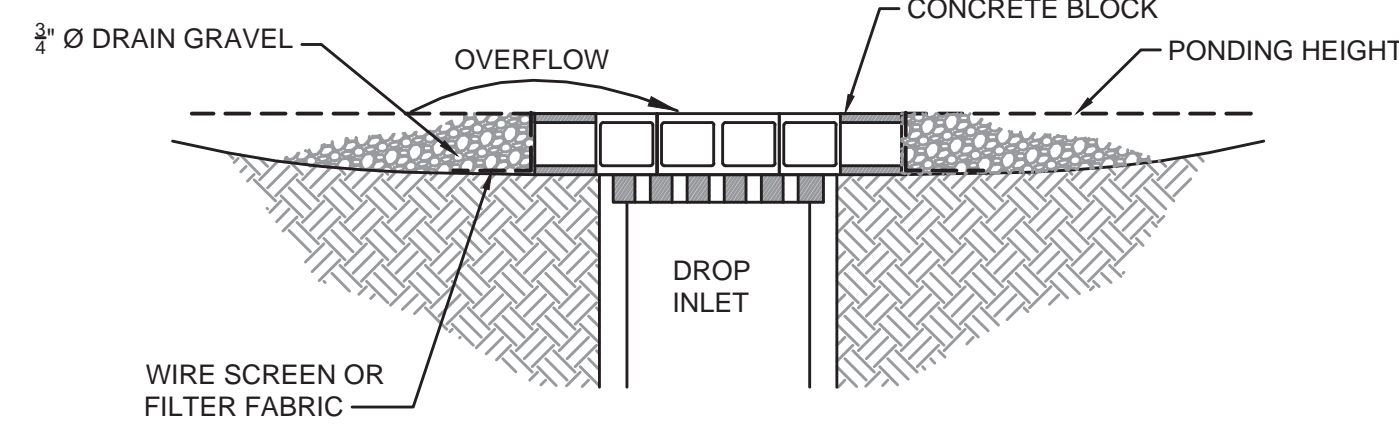
1. A STABILIZED ENTRANCE PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
2. GEOTEXTILE (KYTC TYPE III) SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
3. TREES, STUMPS, ROOTS, BRUSH, WEEDS, AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED FROM THE WORK AREA.
4. UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE ROADBED AND PARKING AREAS.
5. GRADING, SUBGRADE PREPARATION, AND COMPACTION SHALL BE DONE AS NEEDED. FILL MATERIAL SHALL BE DEPOSITED IN LAYERS NOT TO EXCEED 9 INCHES AND COMPACTION WITH THE CONTROLLED MOVEMENT OF COMPACTION AND EARTH MOVING EQUIPMENT.
6. THE ROADBED SHALL BE GRADED TO THE ELEVATION AS SHOWN. SUBGRADE PREPARATION AND PLACEMENT OF THE SURFACE COURSE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
7. ALL CUT AND FILLS SHALL BE 2:1 OR FLATTER TO THE EXTENT POSSIBLE.
8. WATER BREAKS OR BARS MAY BE USED TO CONTROL SURFACE RUNOFF.

STABILIZED CONSTRUCTION ENTRANCE - DETAIL

NOT TO SCALE



PLAN



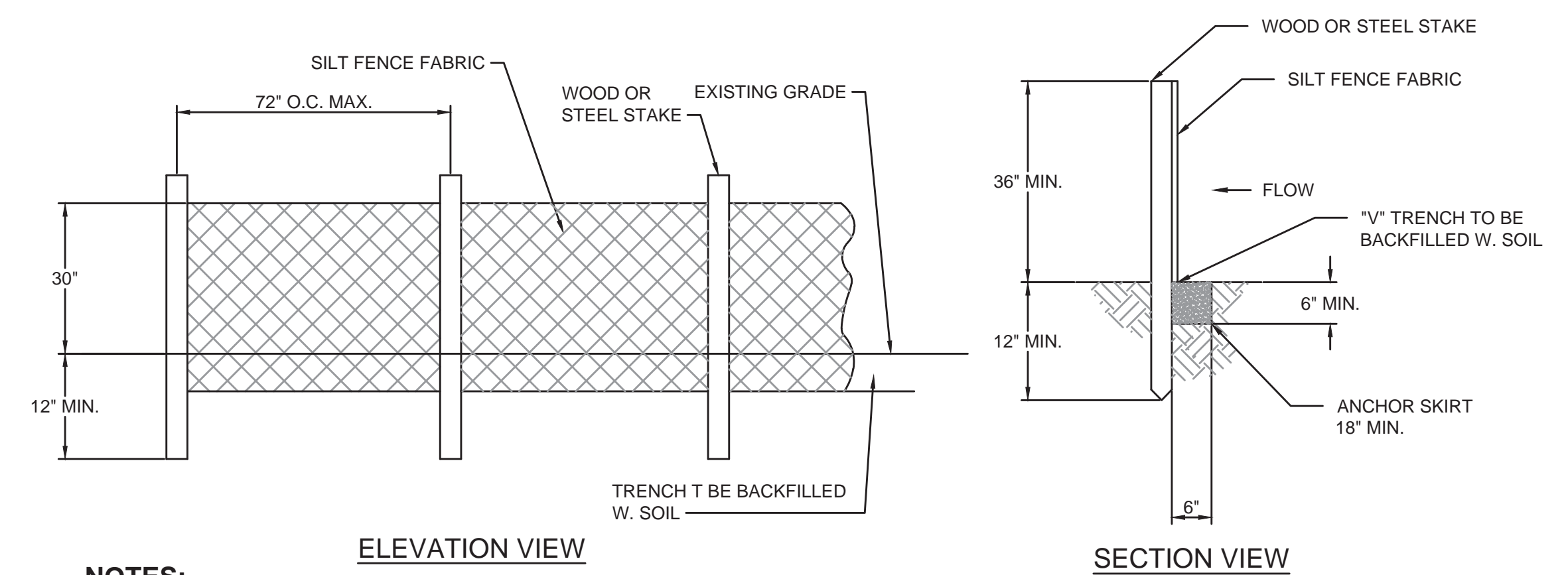
SECTION

NOTES:

1. DROP INLET PROJECTION ARE TO BE USED FOR NEARLY LEVEL DRAINAGE AREAS.
2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

DROP INLET PROTECTION - DETAIL

NOT TO SCALE



ELEVATION VIEW

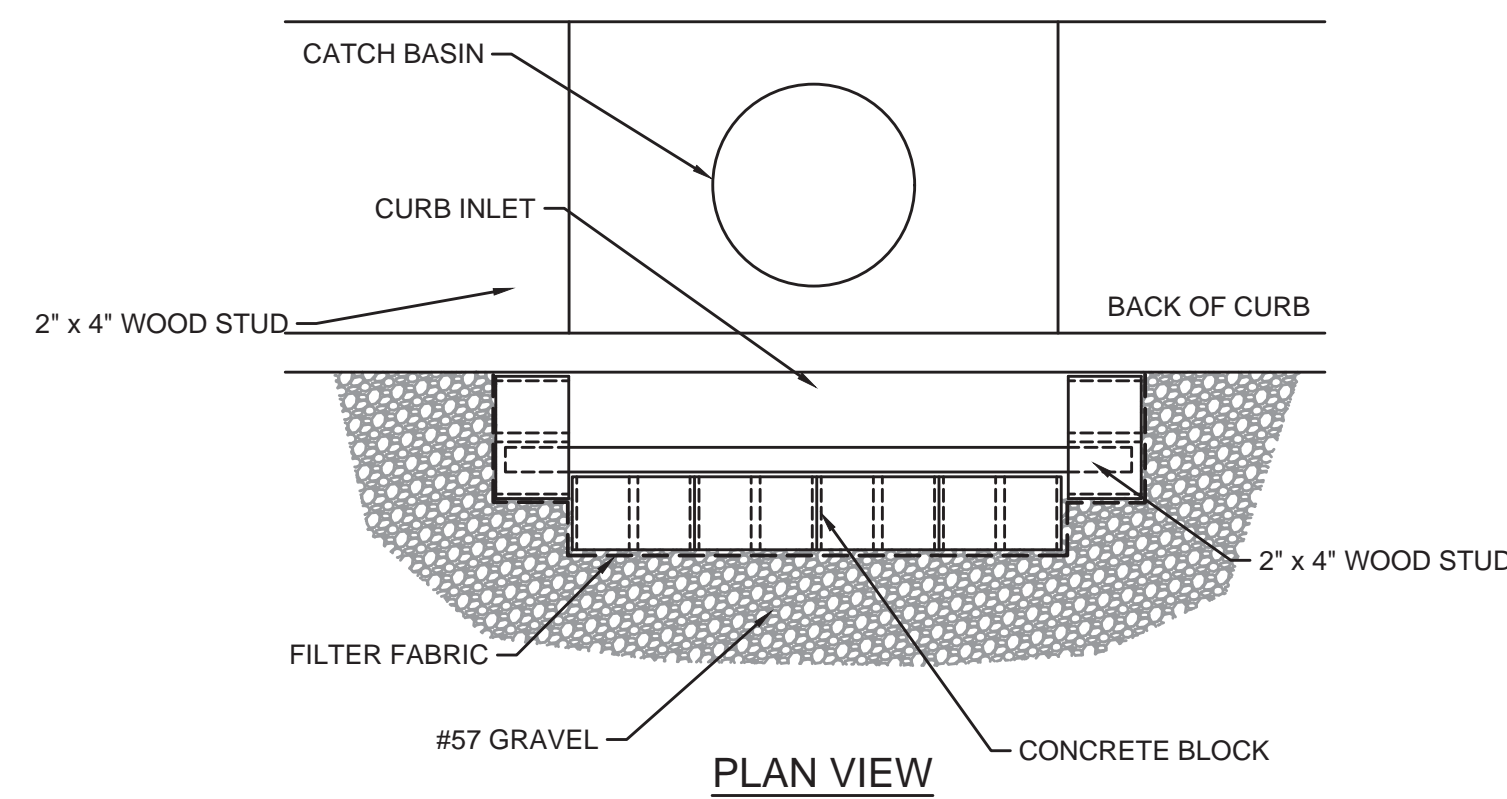
SECTION VIEW

NOTES:

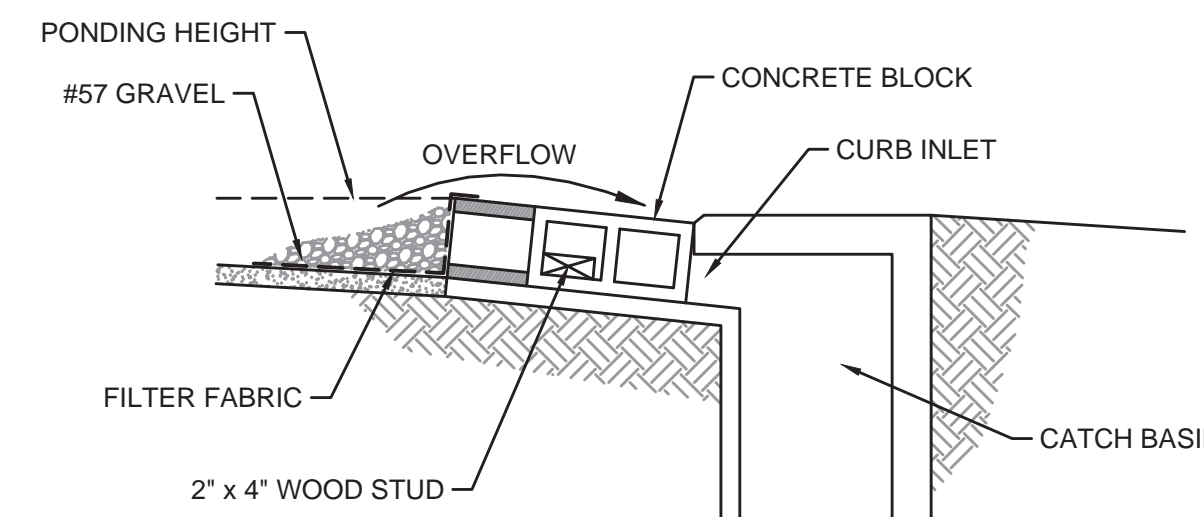
1. SILT FENCE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE OF THE BARRIER. WHEN JOINTS CANNOT BE AVOID, SILT FENCE FABRIC SHALL BE SPLICED TOGETHER ONLY AT A POST WITH 3 FOOT MIN. OVERLAP, AND SECURELY SEALED.
2. POSTED SHALL BE AT LEAST 5 FEET IN LENGTH.
3. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE AND FABRIC.
4. WOOD POSTS SHALL BE 2 INCHES BY 2 INCHES OR EQUIVALENT. STEEL POSTS SHALL BE 1/33 LBS PER LINEAR FOOT.
5. IF REQUIRED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH IN LENGTH, WIRE TIES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE
6. TURN SILT FENCE UP SLOPE AT ENDS.

SILT FENCE - DETAIL

NOT TO SCALE



PLAN VIEW



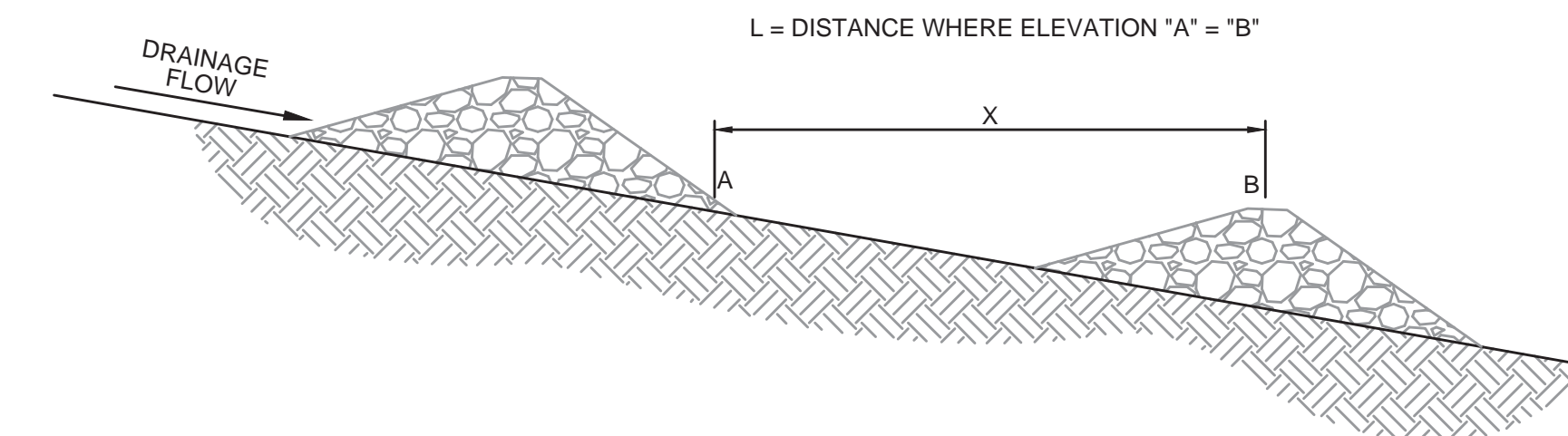
SECTION VIEW

NOTES:

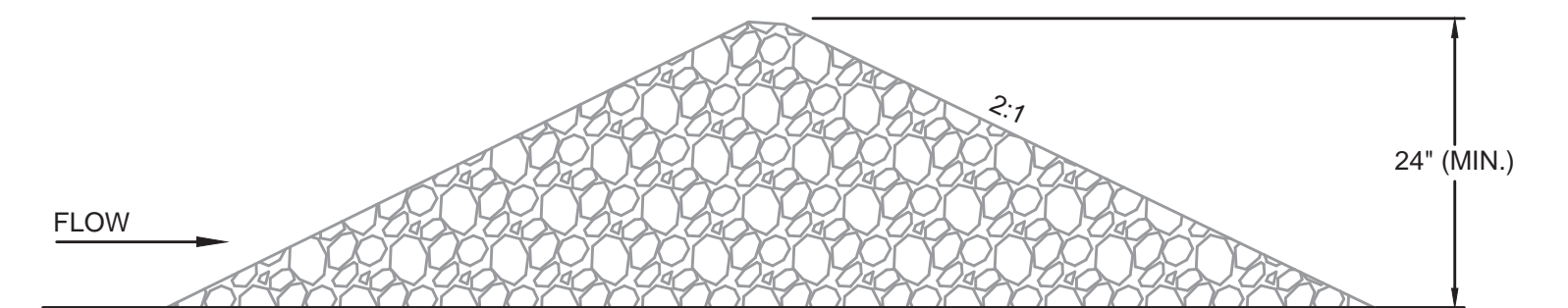
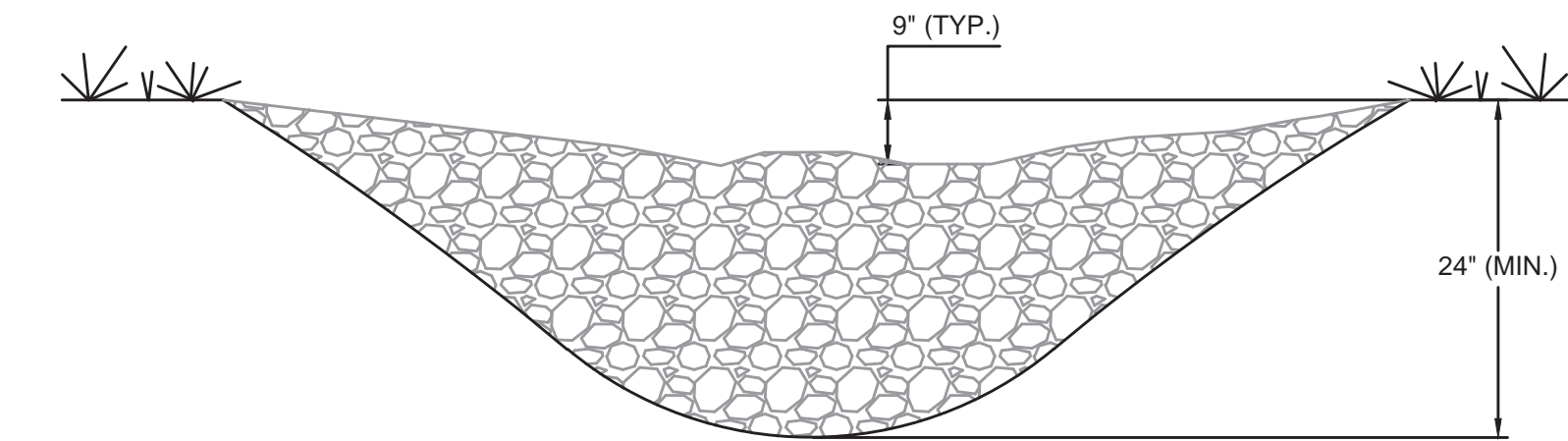
1. USE BLOCK AND GRAVEL TYPE SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET SEGMENT WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET SEDIMENT BARRIER - DETAIL

NOT TO SCALE



SECTION



NOTES:

1. ROCK CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED 5 TO 10 INCH STONE. MECHANICAL OR HAND PLACEMENTS SHALL BE REQUIRED TO ENSURE COMPLETE COVERAGE OF THE ENTIRE WIDTH OF DITCH OR SWALE AND THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
2. INSPECT BEHIND RIPRAP CHECKDAM DAILY AND CLEAN WHEN COLLECTED DEBRIS EXCEEDS HALF OF ITS DEPTH.

ROCK CHECK DAM - DETAIL

NOT TO SCALE

NO.	DATE	BY	REVISIONS

2019 WATER SYSTEM IMPROVEMENTS PROJECT
STANDARD DETAILS - EROSION CONTROLS

SANDY HOOK WATER DISTRICT
Serving Our Community

BLUEGRASS ENGINEERING, PLLC
222 East Main Street, Ste. 1 - Georgetown, KY 40324

PROJECT #:	19003
DATE:	APRIL 2022
PROJECT MGR:	BKL
DRAWN BY:	WJH
CHECKED BY:	LRS



BID SET