

WATER SYSTEM IMPROVEMENTS PROJECT

FOR THE
WESTERN MASON WATER DISTRICT
2573 MARY INGLES HIGHWAY

DOVER, KY 41034

BOARD MEMBERS

Larry Redden, Chairman

Pam Carpenter, Secretary

Jerry Fields, Treasurer

David French, Manager

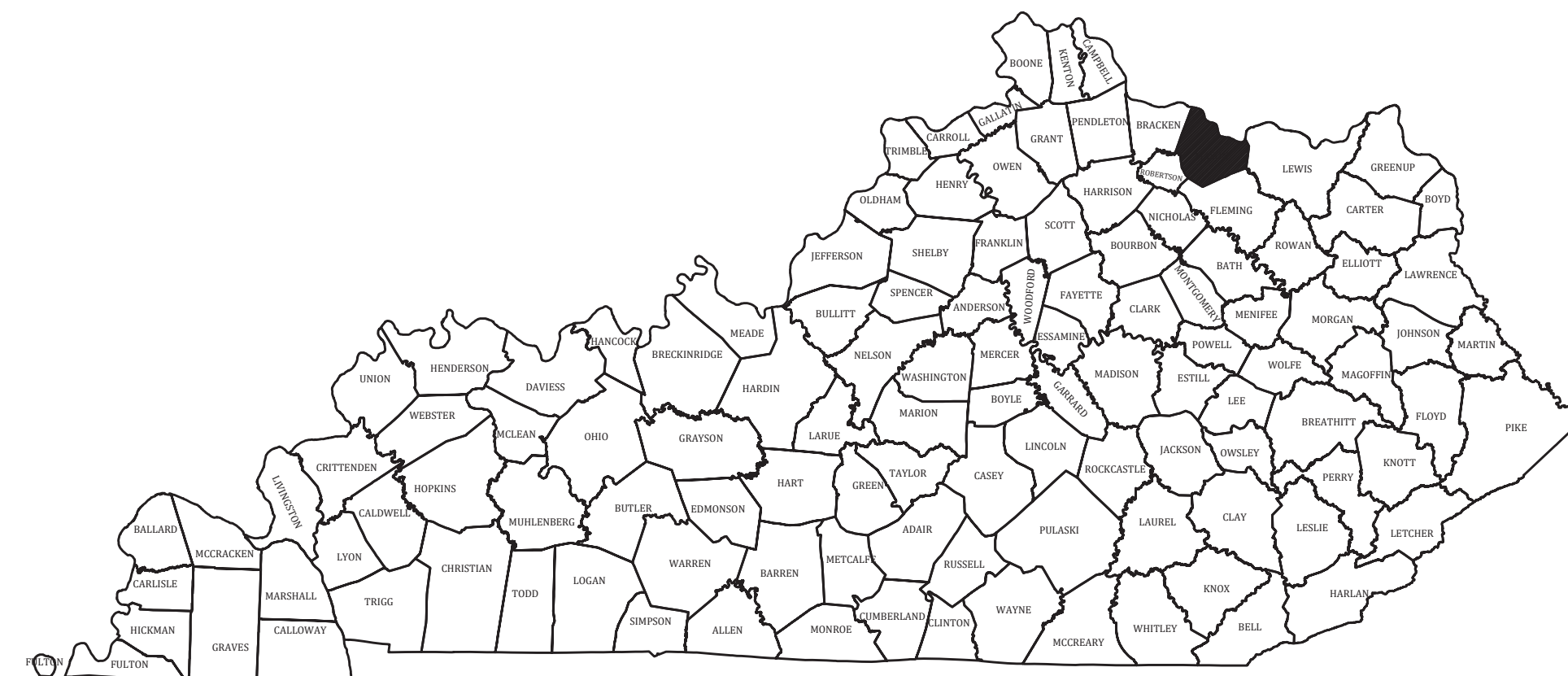
Chris Scott, Field Supervisor

MARCH 2024

PREPARED BY:



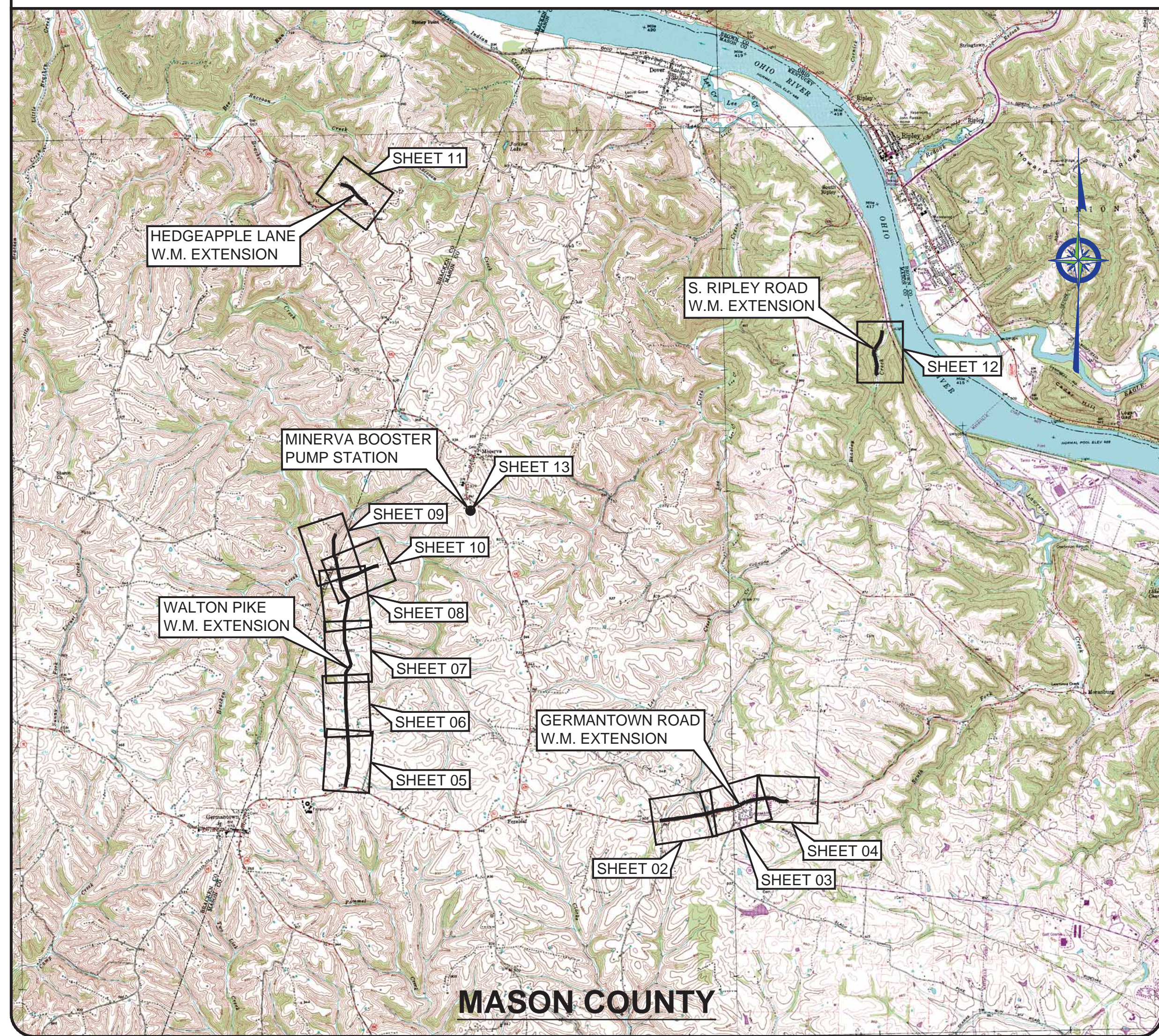
222 East Main Street, Ste. 1 • Georgetown, KY 40324



PROJECT NO. 21015

THIS DRAWING HAS BEEN PREPARED AT THE SCALE INDICATED. REPRODUCTION OF THIS DRAWING MAY BE MADE AT THE SCALE INDICATED. THE GRAPHIC SCALE BAR SHALL BE USED TO DETERMINE THE ACTUAL SCALE.

PROJECT MAP



MASON COUNTY

EXISTING UTILITIES



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
WESTERN MASON WATER DISTRICT
PO BOX 49
DOVER, KY 41034
DAVID FRENCH, MANAGER
(606) 882-3141 OFFICE

TELEPHONE & CABLE
WINDSTREAM
1(800)-347-1991
LIMESTONE CABLEVISION
(606)564-9220

GAS
COLUMBIA GAS
(800) 432-9345

SEWER
WESTERN MASON SEWER DISTRICT

ELECTRIC
KENTUCKY UTILITIES
(800)981-0600

FLEMING MASON ENERGY CO-OP
(800)-464-3144

DRAWING INDEX

SHT. NO.	DESCRIPTION:
--	COVER
01	PROJECT MAP, EXISTING UTILITIES, LEGEND and DRAWING INDEX
02	GERMANTOWN ROAD STA. 10+00 TO STA. 35+00
03	GERMANTOWN ROAD STA. 35+00 TO STA. 63+00
04	GERMANTOWN ROAD STA. 63+00 TO STA. 76+46
05	WALTON PIKE STA. 10+00 TO STA. 37+00
06	WALTON PIKE STA. 37+00 TO STA. 65+00
07	WALTON PIKE STA. 65+00 TO STA. 93+00
08	WALTON PIKE STA. 93+00 TO STA. 121+00
09	WALTON PIKE STA. 121+00 TO STA. 150+35
10	CARPENTER LANE STA. 10+00 TO STA. 29+48
11	HEDGEAPPLE LANE STA. 10+00 TO STA. 27+75
12	S. RIPLEY RD. STA. 10+00 TO STA. 33+59
13	MINERVA BOOSTER PUMP STATION - SITE
14	MINERVA BOOSTER PUMP STATION - PLAN
15	MINERVA BOOSTER PUMP STATION - SECTIONS
16	MINERVA BOOSTER PUMP STATION - DETAILS
17	STANDARD DETAILS - PIPE LINES
18	STANDARD DETAILS - PIPE LINES
19	STANDARD DETAILS - WATER LINES
E-01	ELECTRICAL DETAILS

LEGEND

	NEW WATER MAIN		NEW FLUSHING HYDRANT
	EXISTING WATER MAIN		EX. FLUSHING HYDRANT
	EXISTING SANITARY SEWER		EXISTING WATER METER
	EXISTING GAS MAIN		NEW GATE VALVE & BOX
	EXISTING FORCE MAIN		EX. GATE VALVE & BOX
	NEW STEEL CASING		EXISTING MANHOLE
	EXISTING CULVERT		

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 36" 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
 - ALL EXISTING METERS SHALL BE RECONNECTED TO NEW WATER MAINS W/NEW 3/4" PE SERVICE LINE, SETTERS, BOX, AND LID

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 ENGINEER PRIOR TO RECONNECTS OF ANY METER.
 - A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE PLACED IN THE TRENCH SIX INCHES ABOVE ALL PLASTIC LINES. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED INTO 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 WINDOW 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 KYTC 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.

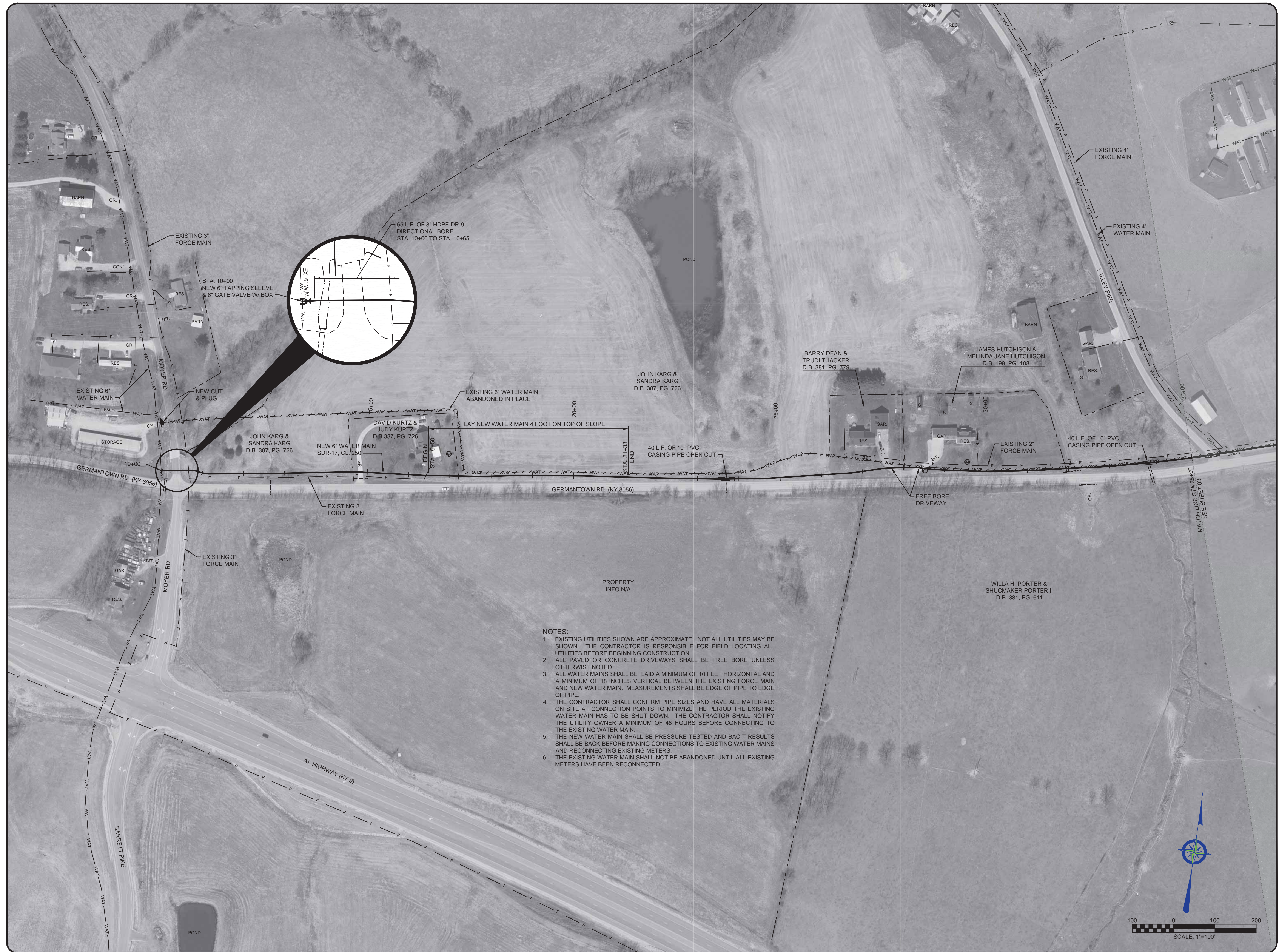
NO.	DATE	REVISIONS	BY

WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS
PROJECT MAP, EXISTING UTILITIES,
LEGEND & DRAWING INDEX

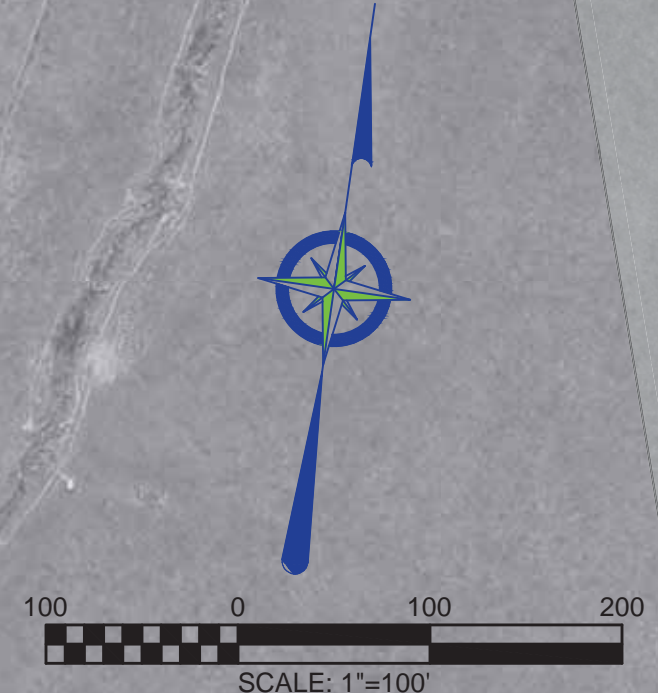


PROJECT #: 21015
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DRAWN BY: WJH
CHECKED BY: CBW





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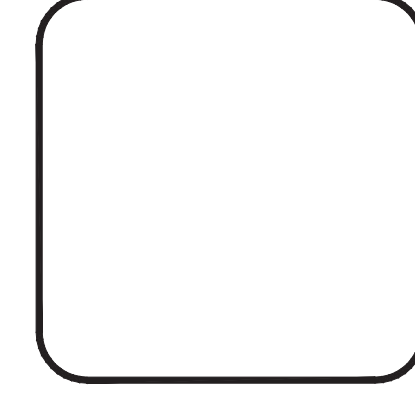
**WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS**

**GERMANTOWN ROAD (KY 3056)
STA. 10+00 TO STA. 35+00**

**BLUEGRASS
ENGINEERING
PLLC**

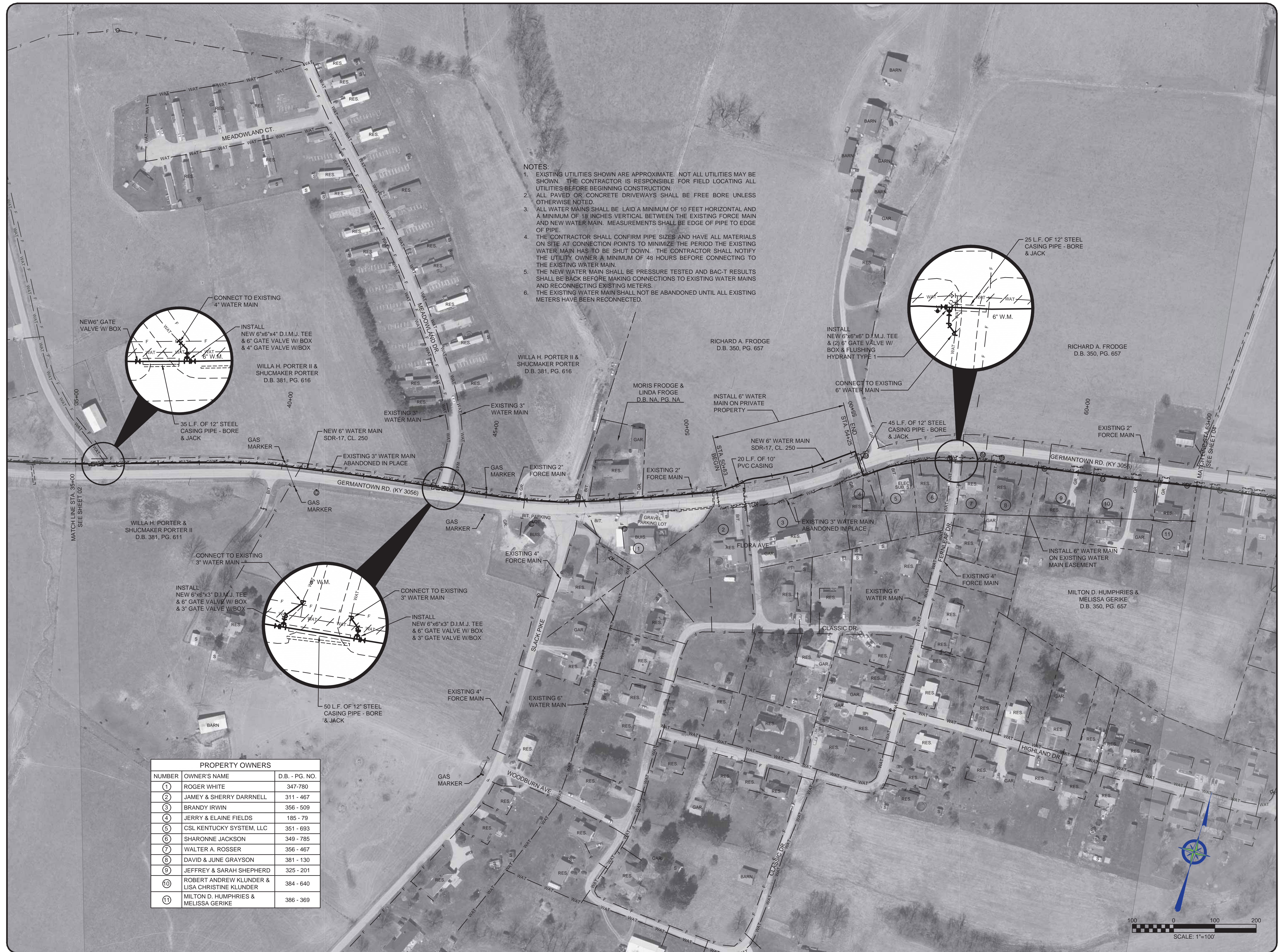
222 East Main Street, Ste. 1 • Georgetown, KY 40324

PROJECT #: 21015
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 DRAWN BY: WJH
 CHECKED BY: CBW



02

BID SET



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PROPERTY OWNERS		
NUMBER	OWNER'S NAME	D.B. - PG. NO.
①	ROGER WHITE	347-780
②	JAMEY & SHERRY DARRNELL	311 - 467
③	BRANDY IRWIN	356 - 509
④	JERRY & ELAINE FIELDS	185 - 79
⑤	CSL KENTUCKY SYSTEM, LLC	351 - 693
⑥	SHARONNE JACKSON	349 - 785
⑦	WALTER A. ROSSER	356 - 467
⑧	DAVID & JUNE GRAYSON	381 - 130
⑨	JEFFREY & SARAH SHEPHERD	325 - 201
⑩	ROBERT ANDREW KLUNDER & LISA CHRISTINE KLUNDER	384 - 640
⑪	MILTON D. HUMPHRIES & MELISSA GERIKE	386 - 369

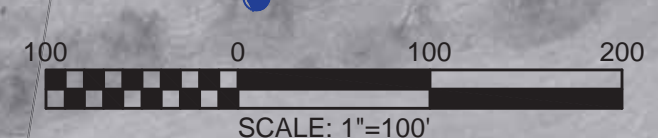
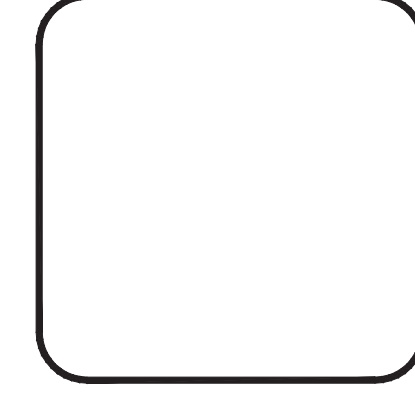
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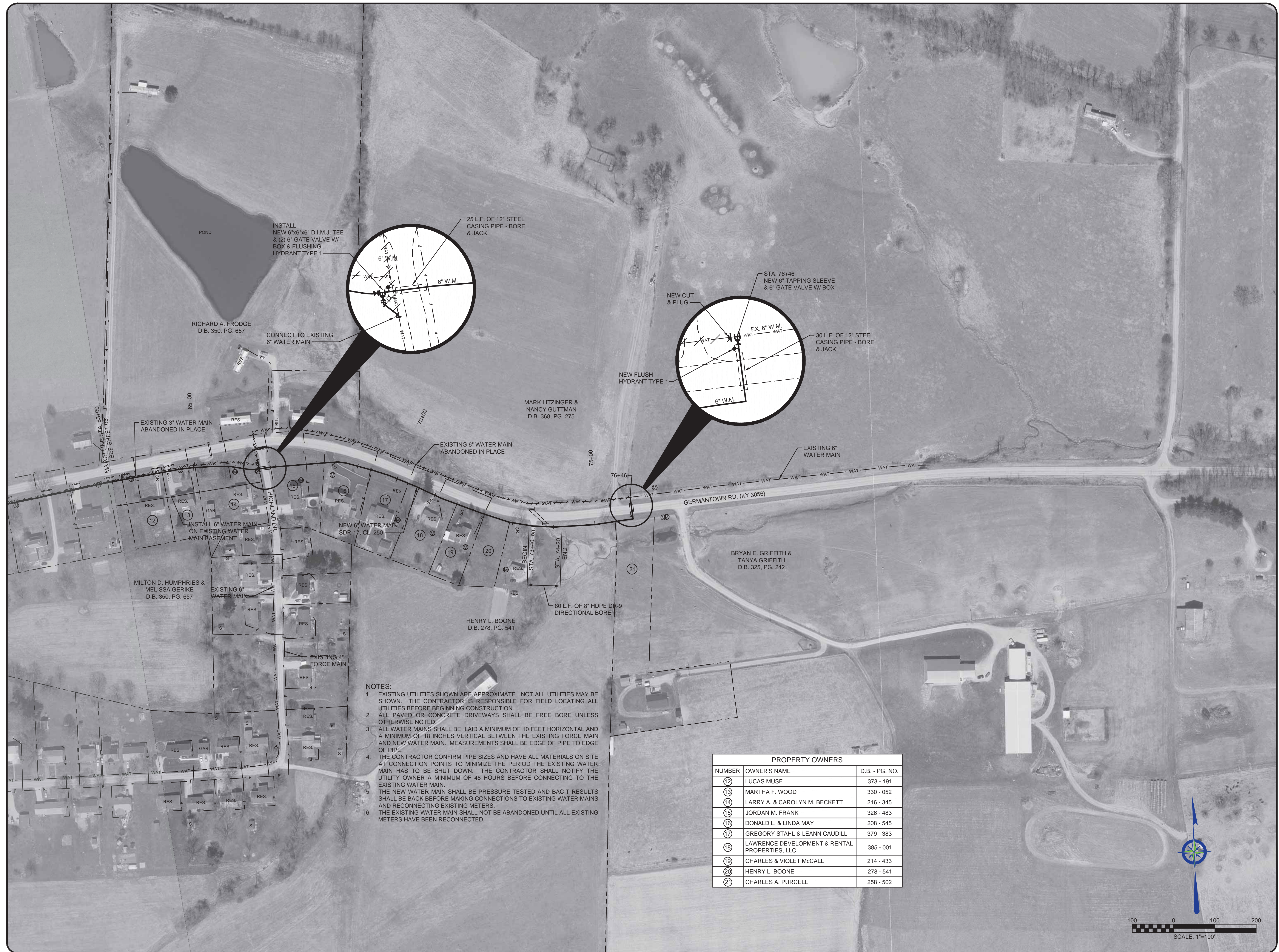
**WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS**

**GERMANTOWN ROAD (KY 3056)
STA. 35+00 TO STA. 63+00**



PROJECT #: 21015
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DRAWN BY: WJH
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INSTALL
NEW 6" X 6" D.I.M.J. TEE
& (2) 6" GATE VALVE W/
BOX & FLUSHING
HYDRANT TYPE 1

25 L.F. OF 12" STEEL
CASING PIPE - BORE
& JACK

STA. 76+46
NEW 6" TAPPING SLEEVE
& 6" GATE VALVE W/ BOX

30 L.F. OF 12" STEEL
CASING PIPE - BORE
& JACK

RICHARD A. FRODGE
D.B. 350, PG. 657

MARK LITZINGER &
NANCY GUTTMAN
D.B. 368, PG. 275

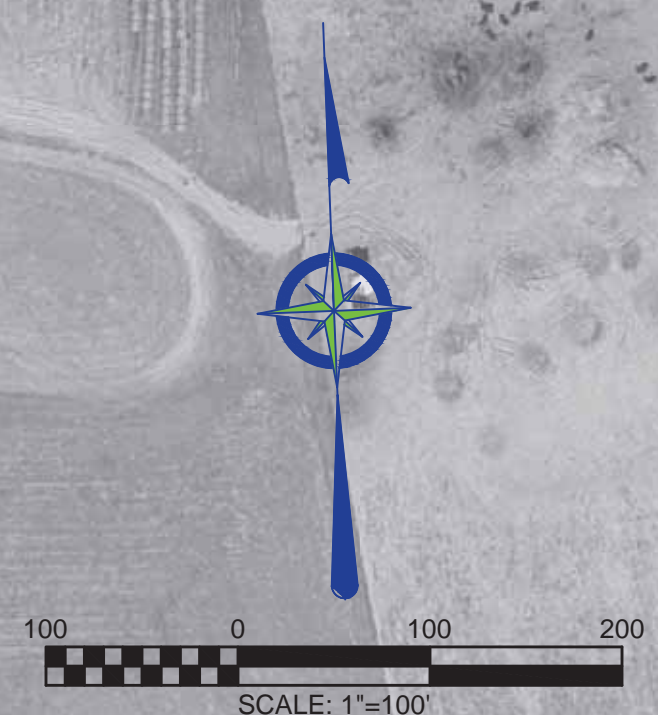
BRYAN E. GRIFFITH &
TANYA GRIFFITH
D.B. 325, PG. 242

HENRY L. BOONE
D.B. 278, PG. 541

MILTON D. HUMPHRIES &
MELISSA GERIKE
D.B. 360, PG. 657

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PROPERTY OWNERS		
NUMBER	OWNER'S NAME	D.B. - PG. NO.
12	LUCAS MUSE	373 - 191
13	MARTHA F. WOOD	330 - 052
14	LARRY A. & CAROLYN M. BECKETT	216 - 345
15	JORDAN M. FRANK	326 - 483
16	DONALD L. & LINDA MAY	208 - 545
17	GREGORY STAHL & LEANN CAUDILL	379 - 383
18	LAWRENCE DEVELOPMENT & RENTAL PROPERTIES, LLC	385 - 001
19	CHARLES & VIOLET McCALL	214 - 433
20	HENRY L. BOONE	278 - 541
21	CHARLES A. PURCELL	258 - 502



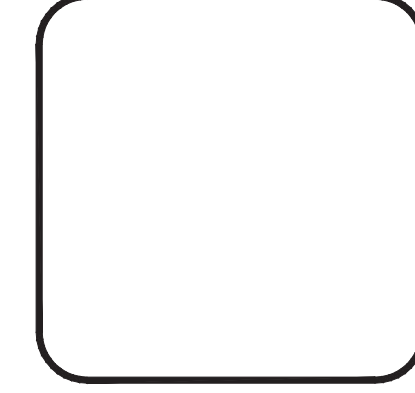
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**WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS**

**GERMANTOWN ROAD (KY 3056)
STA. 63+00 TO STA. 76+46**



PROJECT #: 21015
DATE: FEBRUARY 2024
PROJECT MGR: PBR
DRAWN BY: WJH
CHECKED BY: CBW



04

BID SET



JO ANN STAPLETON
D.B. 350, PG. 719

CLARENCE MILLS &
DONNA S. MILLS
D.B. 313, PG. 485

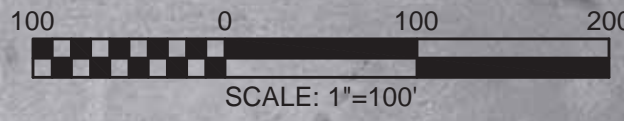
DUANE MILLS
D.B. 298, PG. 056

MARK D. LITZINGER &
NANCY GUTTMAN
D.B. 359, PG. 786

MICHAEL FINN
D.B. 351, PG. 180

MARK LITZINGER
D.B. 364, PG. 736

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WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS

WALTON PIKE
STA. 10+00 TO STA. 37+00



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05



CLARENCE MILLS & DONNA S. MILLS
D.B. 313, PG. 485

ARTHUR J. HEMSATH & DEBORAH L. HEMSATH
D.B. 349, PG. 390

ARTHUR J. HEMSATH & DEBORAH HEMSATH
D.B. NA, PG. NA

JOHN C. HILTERBRAND & SHERI WOOD HILTERBRAND
D.B. NA, PG. NA

SUSAN WOOD MERCHANT & MICHAEL WHITCOMB & NANCY WOOD WHITCOB
D.B. NA, PG. NA

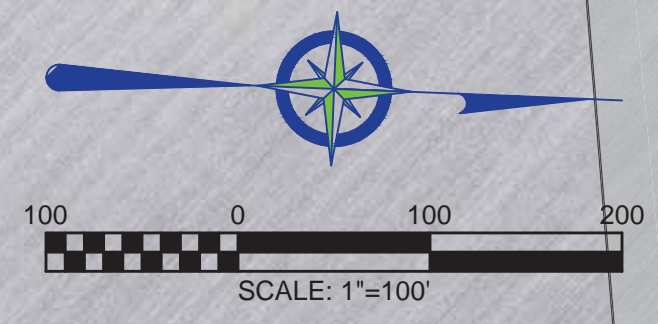
CLARENCE MILLS & DONNA SUE MILLS
D.B. 380, PG. 542

DUANE MILLS
D.B. 298, PG. 056

BLYTHE FAMILY REV LIVING TRUST
JAMES BLYTHE & RUTH TRUSTEES
D.B. 299, PG. 307

MARK LITZINGER
D.B. 364, PG. 736

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 - ALL WATER MAINS SHALL BE LAID A MINIMUM OF 10 FEET HORIZONTAL AND A MINIMUM OF 18 INCHES VERTICAL BETWEEN THE EXISTING FORCE MAIN AND NEW WATER MAIN. MEASUREMENTS SHALL BE EDGE OF PIPE TO EDGE OF PIPE.
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 - THE NEW WATER MAIN SHALL BE PRESSURE TESTED AND BAC-T RESULTS SHALL BE BACK BEFORE MAKING CONNECTIONS TO EXISTING WATER MAINS AND RECONNECTING EXISTING METERS.
 - THE EXISTING WATER MAIN SHALL NOT BE ABANDONED UNTIL ALL EXISTING METERS HAVE BEEN RECONNECTED.



NO.	DATE	REVISIONS	BY

**WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS**

WALTON PIKE
STA. 37+00 TO STA. 65+00



PROJECT #: 21015
DATE: FEBRUARY 2024
PROJECT MGR: PBR
DRAWN BY: WJH
CHECKED BY: CBW



06



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NO.	DATE	REVISIONS	BY

**WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS**

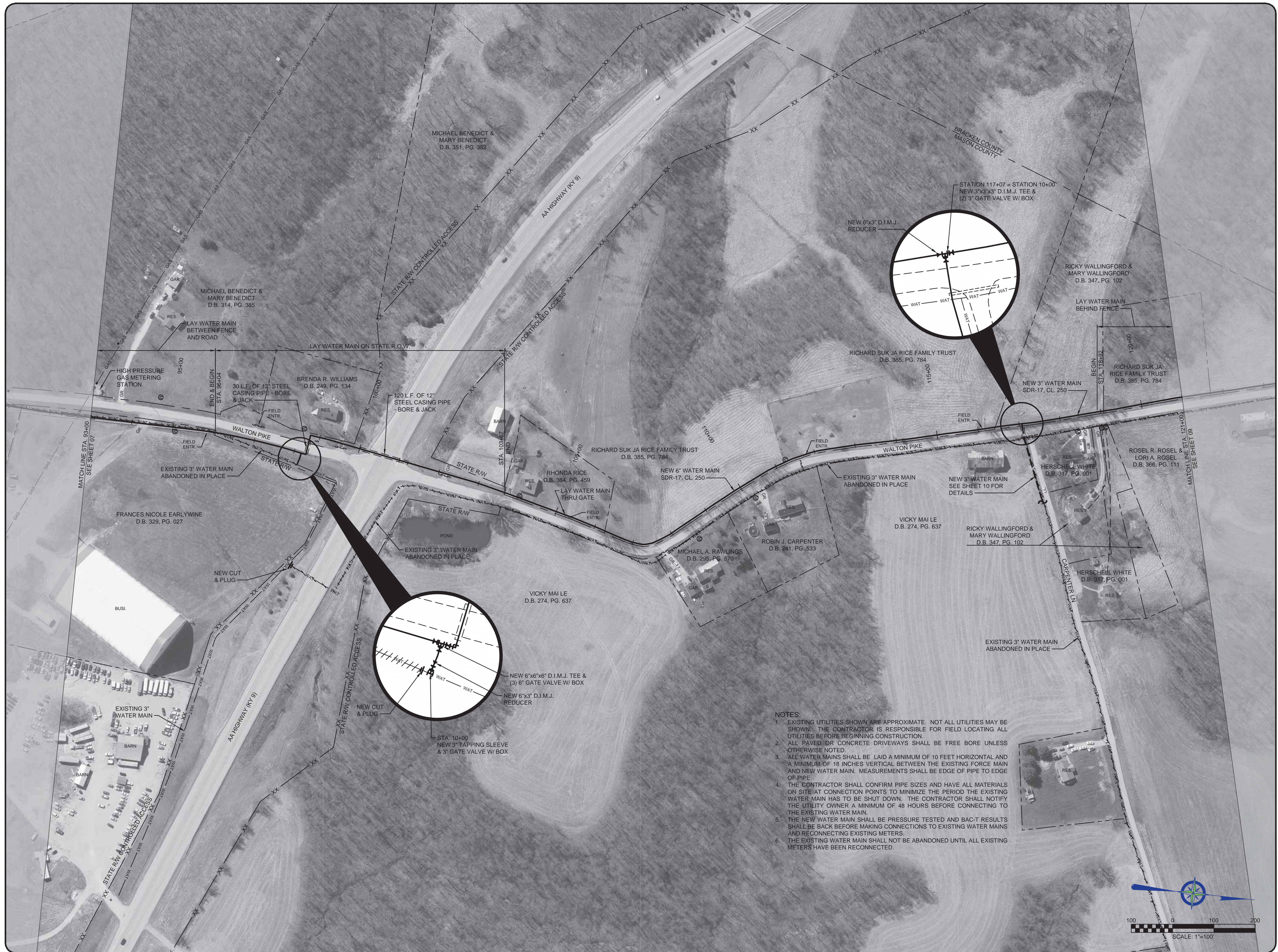
**WALTON PIKE
STA. 65+00 TO STA. 93+00**



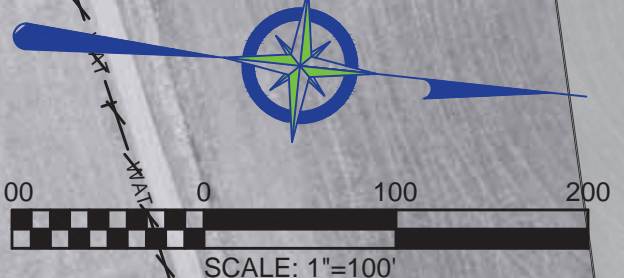
PROJECT #: 21015
 DATE: FEBRUARY 2024
 PROJECT MGR: PBR
 DRAWN BY: WJH
 CHECKED BY: CBW



07



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NO.	DATE	REVISIONS	BY

WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS
 WALTON PIKE
 STA. 93+00 TO STA. 121+00



PROJECT #: 21015
 DATE: FEBRUARY 2024
 PROJECT MGR: PBR
 DRAWN BY: WJH
 CHECKED BY: CBW



08



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NO.	DATE	REVISIONS	BY

**WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS**

**WALTON PIKE
STA. 121+00 TO STA. 150+35**



PROJECT #: 21015
 DATE: FEBRUARY 2024
 PROJECT MGR: PBR
 DRAWN BY: WJH
 CHECKED BY: CBW



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NO.	DATE	REVISIONS	BY

WESTERN MASON WATER DISTRICT
 WATER SYSTEM IMPROVEMENTS
 CARPENTER LANE
 STA. 10+00 TO STA. 29+48

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

PROJECT #: 21015
 DATE: FEBRUARY 2024
 PROJECT MGR: PBR
 DRAWN BY: WJH
 CHECKED BY: CBW



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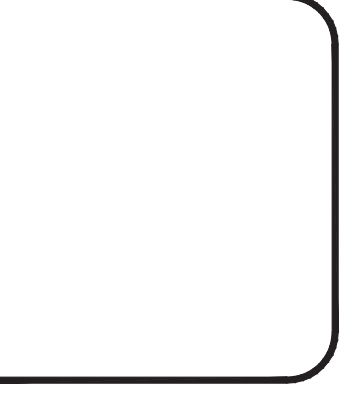
**WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS**

HEDGEAPPLE LANE
STA. 10+00 TO STA. 27+75

BLUEGRASS
ENGINEERING
PLLC

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

PROJECT #: 21015
DATE: FEBRUARY 2024
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DRAWN BY: WJH
CHECKED BY: CBW



SHEET NO.
11

BID SET

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NOTE
 NEW 2" WATER MAIN SHALL BE INSTALLED IN EXISTING 4"
 AC WATER MAIN.
 2" WATER MAIN SHOWN BESIDE WATER MAIN FOR CLARITY.

NO.	DATE	REVISIONS	BY

WESTERN MASON WATER DISTRICT
 WATER SYSTEM IMPROVEMENTS
 S. RIPLEY RD.
 STA. 10+00 TO STA. 38+89

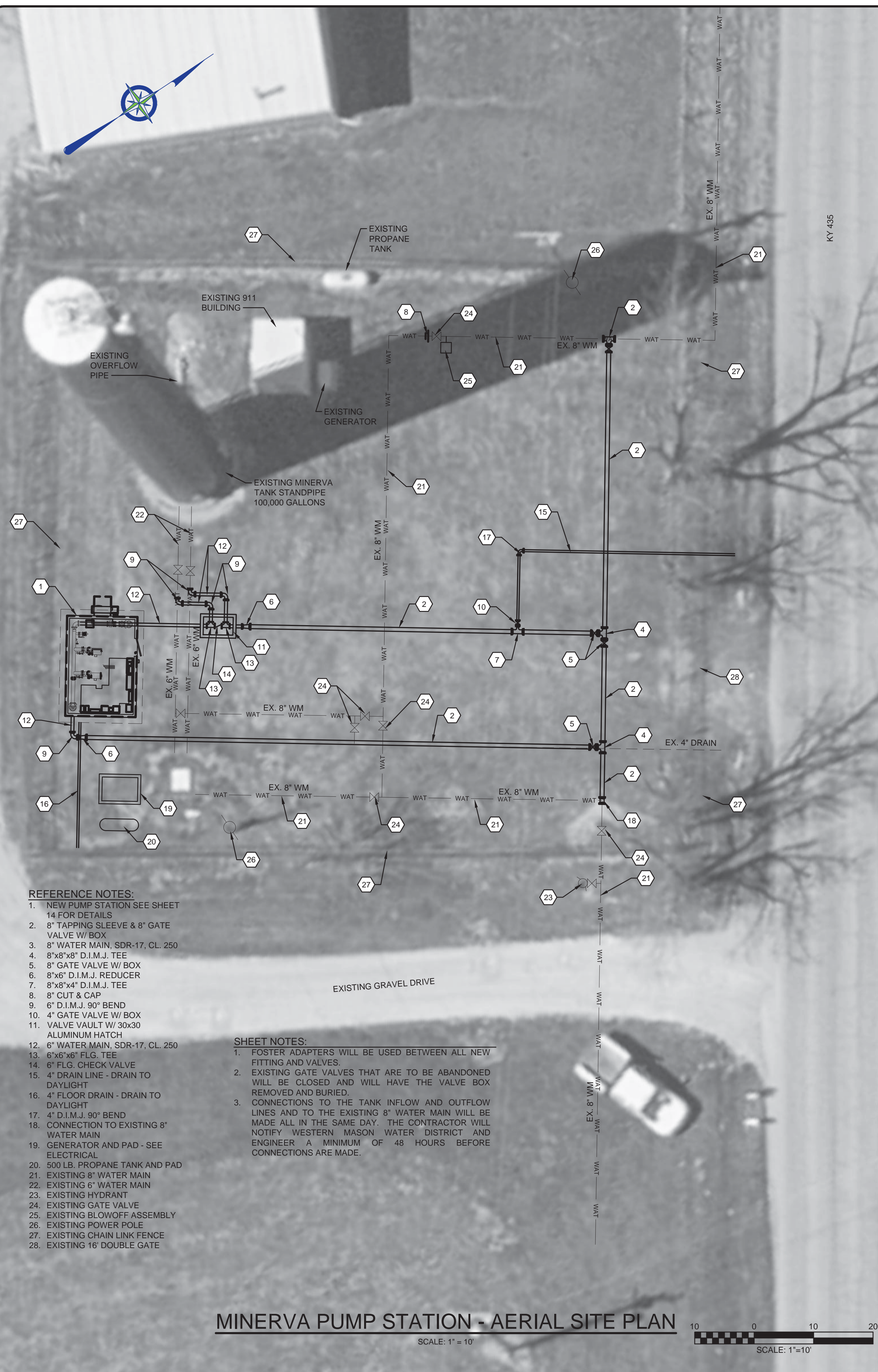
BLUEGRASS
 ENGINEERING
 PLLC
 222 East Main Street, Ste. 1 • Georgetown, KY 40324

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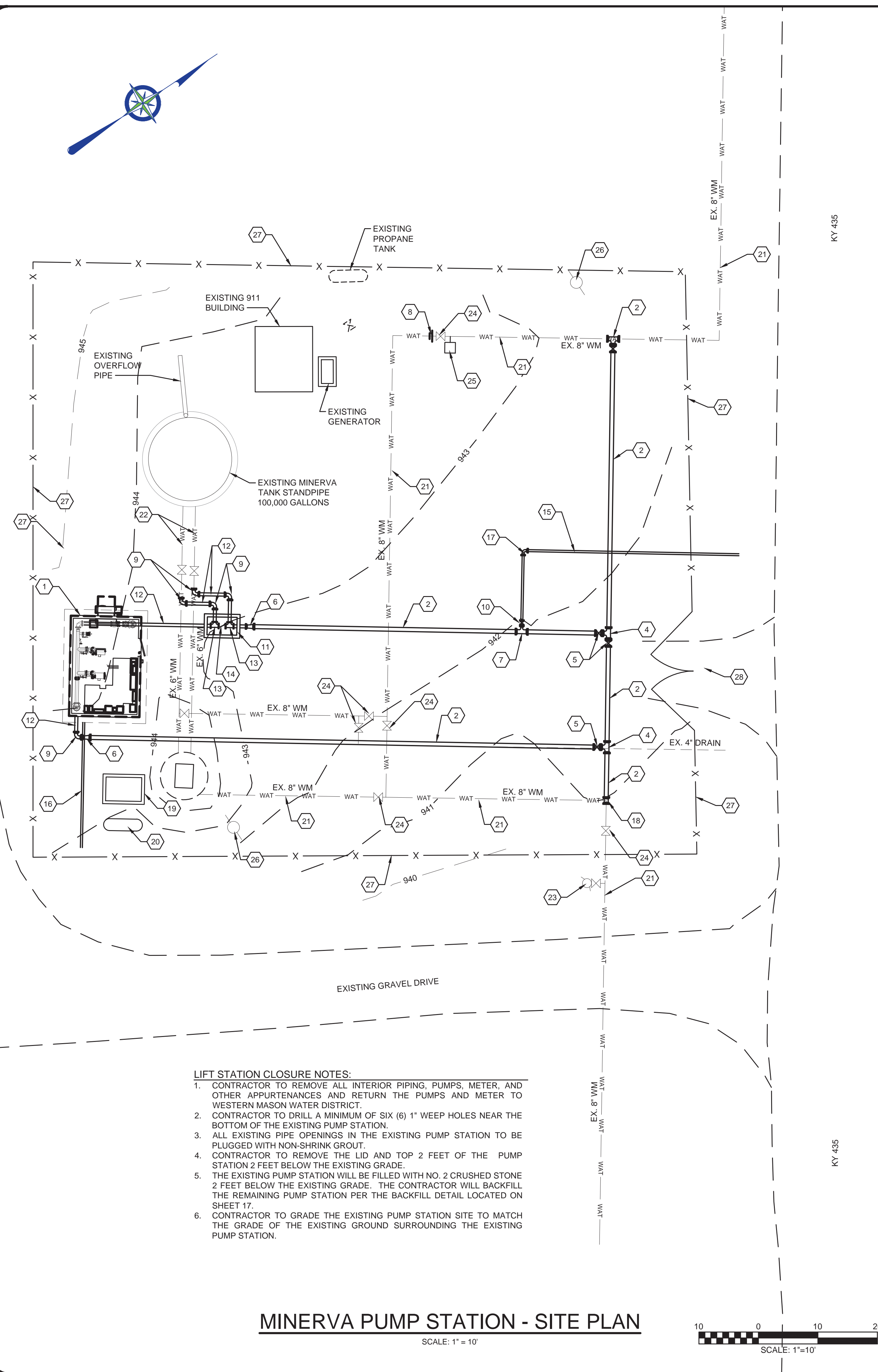
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- REFERENCE NOTES:**
1. NEW PUMP STATION SEE SHEET 14 FOR DETAILS
 2. 8" TAPPING SLEEVE & 8" GATE VALVE W/ BOX
 3. 8" WATER MAIN, SDR-17, CL. 250
 4. 8"x8"x8" D.I.M.J. TEE
 5. 8" GATE VALVE W/ BOX
 6. 8"x6" D.I.M.J. REDUCER
 7. 8"x8"x4" D.I.M.J. TEE
 8. 8" CUT & CAP
 9. 6" D.I.M.J. 90° BEND
 10. 4" GATE VALVE W/ BOX
 11. VALVE VAULT W/ 30x30 ALUMINUM HATCH
 12. 6" WATER MAIN, SDR-17, CL. 250
 13. 6"x6"x6" FLG. TEE
 14. 6" FLG. CHECK VALVE
 15. 4" DRAIN LINE - DRAIN TO DAYLIGHT
 16. 4" FLOOR DRAIN - DRAIN TO DAYLIGHT
 17. 4" D.I.M.J. 90° BEND
 18. CONNECTION TO EXISTING 8" WATER MAIN
 19. GENERATOR AND PAD - SEE ELECTRICAL
 20. 500 LB. PROPANE TANK AND PAD
 21. EXISTING 8" WATER MAIN
 22. EXISTING 6" WATER MAIN
 23. EXISTING HYDRANT
 24. EXISTING GATE VALVE
 25. EXISTING BLOWOFF ASSEMBLY
 26. EXISTING POWER POLE
 27. EXISTING CHAIN LINK FENCE
 28. EXISTING 16" DOUBLE GATE

- SHEET NOTES:**
1. FOSTER ADAPTERS WILL BE USED BETWEEN ALL NEW FITTING AND VALVES.
 2. EXISTING GATE VALVES THAT ARE TO BE ABANDONED WILL BE CLOSED AND WILL HAVE THE VALVE BOX REMOVED AND BURIED.
 3. CONNECTIONS TO THE TANK INFLOW AND OUTFLOW LINES AND TO THE EXISTING 8" WATER MAIN WILL BE MADE ALL IN THE SAME DAY. THE CONTRACTOR WILL NOTIFY WESTERN MASON WATER DISTRICT AND ENGINEER A MINIMUM OF 48 HOURS BEFORE CONNECTIONS ARE MADE.

MINERVA PUMP STATION - AERIAL SITE PLAN
SCALE: 1"=10'



- LIFT STATION CLOSURE NOTES:**
1. CONTRACTOR TO REMOVE ALL INTERIOR PIPING, PUMPS, METER, AND OTHER APPURTENANCES AND RETURN THE PUMPS AND METER TO WESTERN MASON WATER DISTRICT.
 2. CONTRACTOR TO DRILL A MINIMUM OF SIX (6) 1" WEEP HOLES NEAR THE BOTTOM OF THE EXISTING PUMP STATION.
 3. ALL EXISTING PIPE OPENINGS IN THE EXISTING PUMP STATION TO BE PLUGGED WITH NON-SHRINK GROUT.
 4. CONTRACTOR TO REMOVE THE LID AND TOP 2 FEET OF THE PUMP STATION 2 FEET BELOW THE EXISTING GRADE.
 5. THE EXISTING PUMP STATION WILL BE FILLED WITH NO. 2 CRUSHED STONE 2 FEET BELOW THE EXISTING GRADE. THE CONTRACTOR WILL BACKFILL THE REMAINING PUMP STATION PER THE BACKFILL DETAIL LOCATED ON SHEET 17.
 6. CONTRACTOR TO GRADE THE EXISTING PUMP STATION SITE TO MATCH THE GRADE OF THE EXISTING GROUND SURROUNDING THE EXISTING PUMP STATION.

MINERVA PUMP STATION - SITE PLAN
SCALE: 1"=10'

NO.	DATE	REVISIONS	BY

WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS
MINERVA PUMP STATION
- SITE PLAN

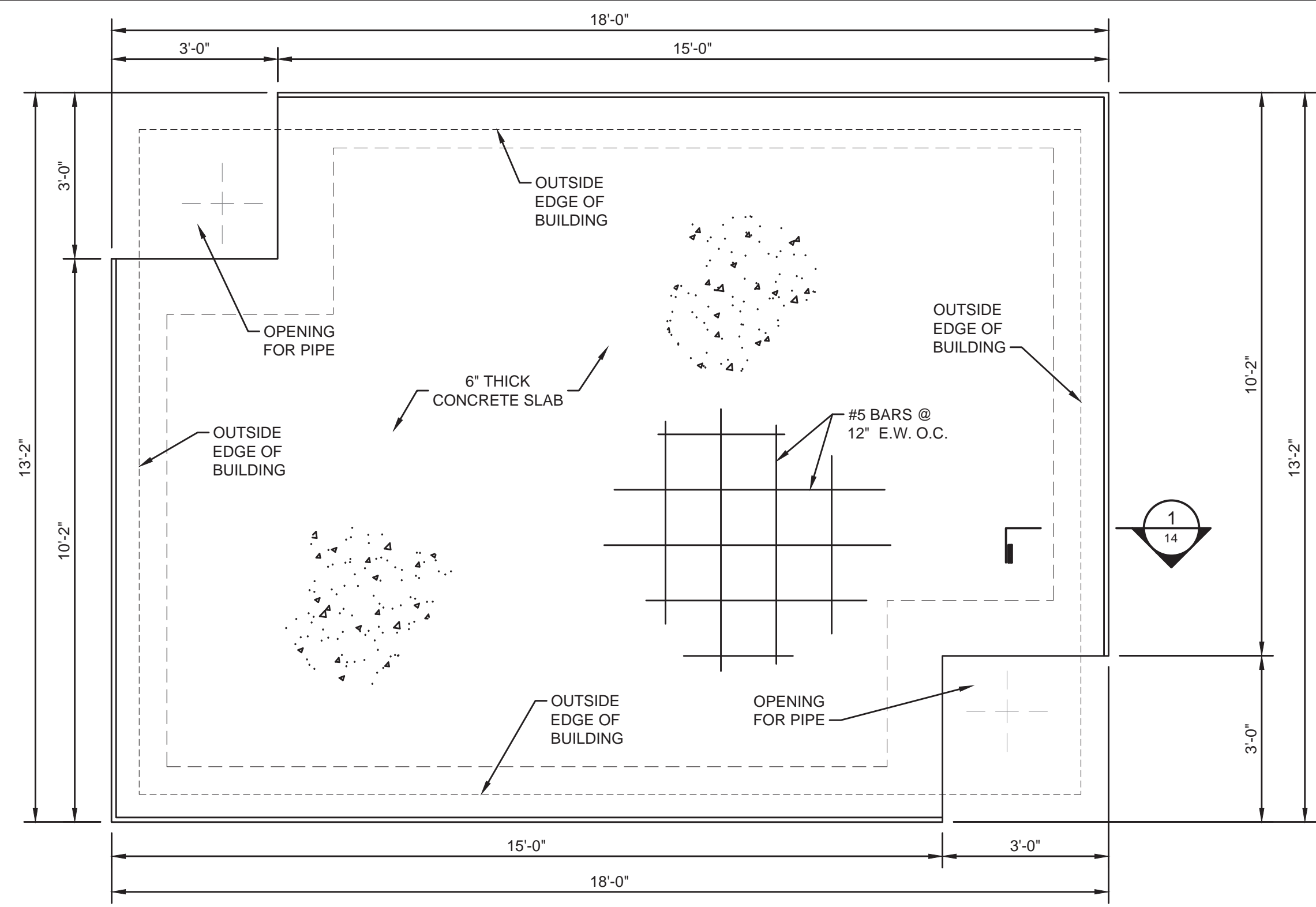


PROJECT #: 21015
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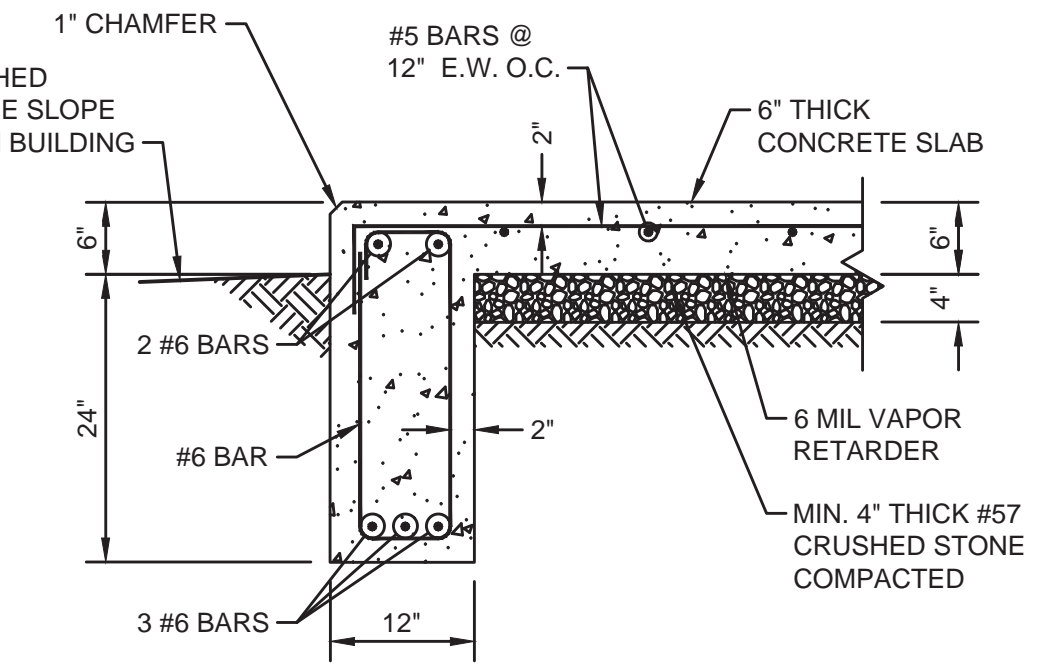
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NOTE:
THE CONTRACTOR WILL VERIFY THE PIPE CUTOUT FOR PIPE INLET AND OUTLET FOR THE PUMP STATION.

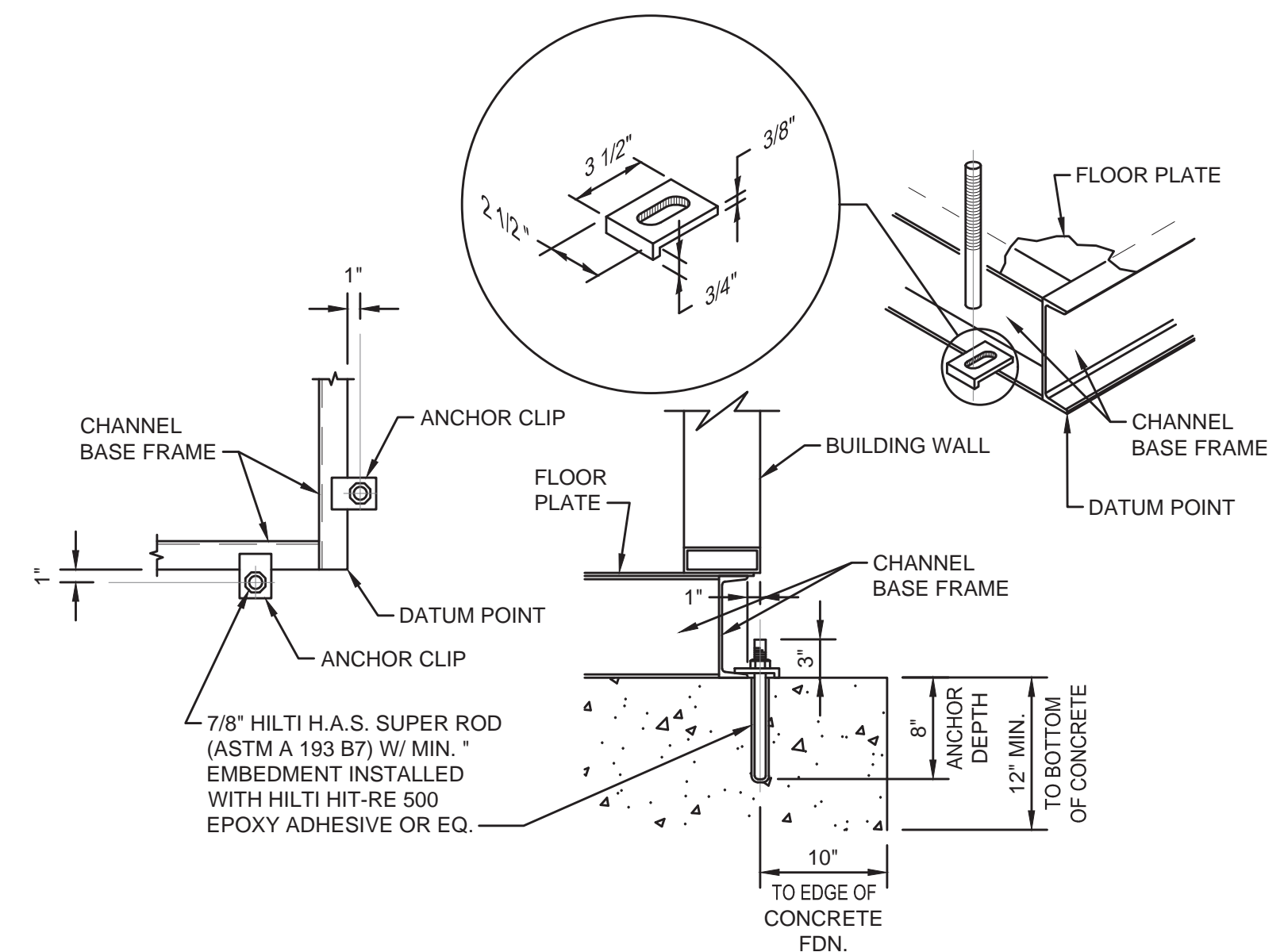
MINERVA BOOSTER PUMP STATION - FOUNDATION PLAN

SCALE: 1/2"=1'-0"



TYPICAL SECTION - 1

NOT TO SCALE

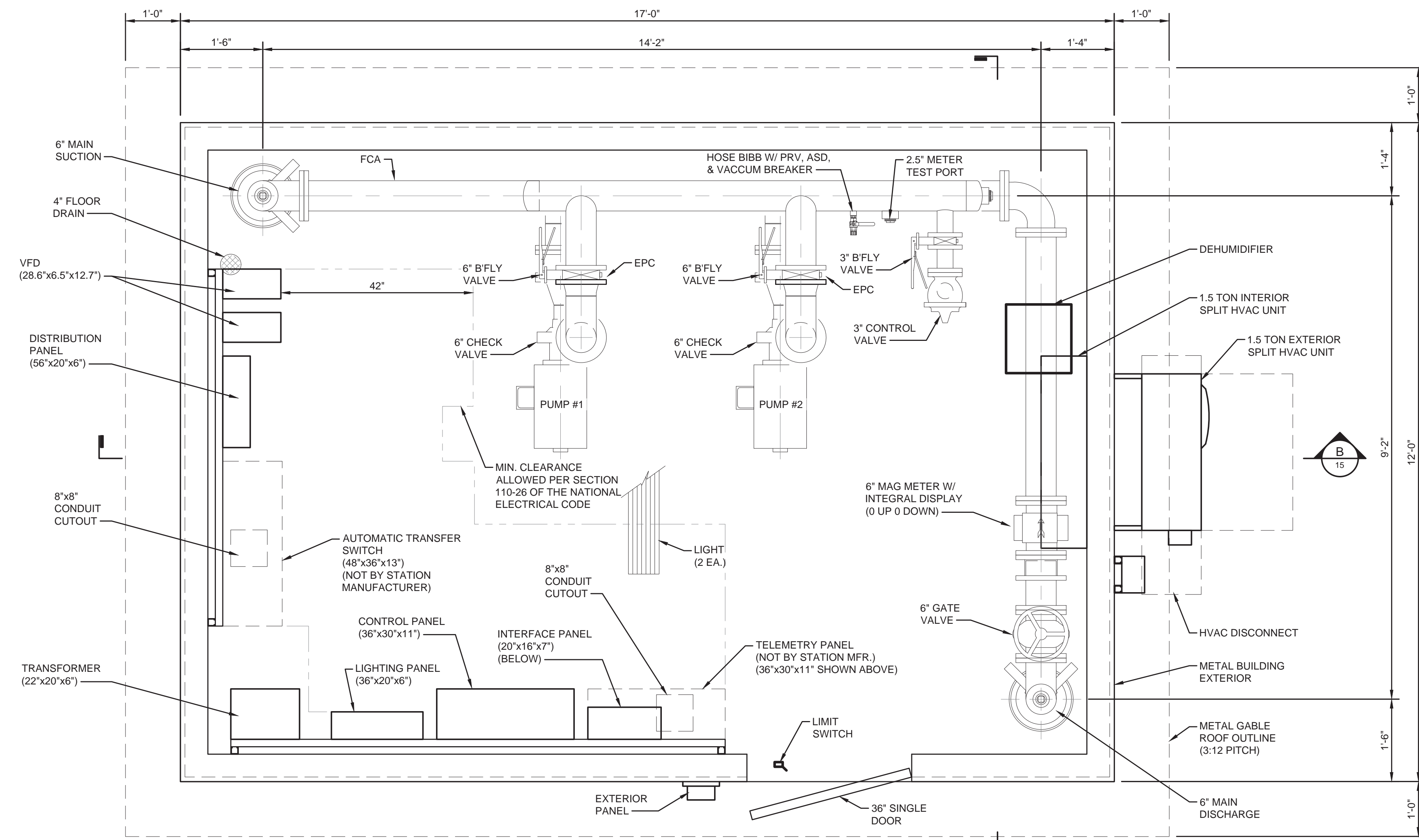


**BASE FRAME ANCHOR DETAIL
CHANNEL FRAMING MEMBERS**

NOT TO SCALE

NOTE:

- ANCHOR CLIPS FURNISHED BY E.F.I.
- ANCHOR BOLTS AND NUTS BY INSTALLER.
- FINAL FOUNDATION AND ANCHOR BOLT DESIGN AND DIMENSIONS AS DIRECTED BY ENGINEER (MINIMUMS ARE SHOWN).
- SHIMS MAY BE REQUIRED AROUND PERIMETER OF BASE FRAME FOR LEVELNESS AND PROPER DOOR ALIGNMENT IN FRAME.
- QUANTITY OF ANCHOR BOLTS SPECIFIED BY ENGINEER.
- ANCHOR BOLTS SHALL BE PLACED WITHIN 12" OF EACH CORNER WITH THE REMAINING ANCHORS BEING SPACED NO MORE THAN 6" APART ALONG ALL SIDES OF THE BUILDING PERIMETER WITH ANY WALL OF 7 FEET OR LESS HAVING TWO ANCHOR BOLTS, ALL ACCORDING TO IBC 2308.3.1, 2015 ED.



MINERVA BOOSTER PUMP STATION - PLAN

SCALE: 3/4"=1'-0"



NOTES:

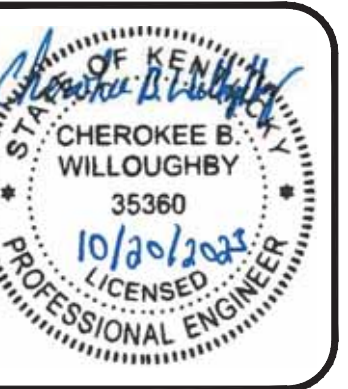
- ALL GASKETS SHALL BE THE FULL FACE FLANGE -TYTE® OR RIGHT FLANGE-TYTE® GASKETS WITH THE THREE (3) BULB TYPE RINGS AS MANUFACTURED BY UNITED STATES PIPE AND FOUNDRY COMPANY, LLC ON ALL DUCTILE IRON FLANGED JOINT. THESE GASKETS ARE DESIGNED SPECIFICALLY FOR THE UNIQUE SURFACE OF DUCTILE IRON FLANGES AND FLAT RUBBER GASKETS OR GASKETS WITH A SINGLE RIBBED SIDE ARE NOT CONSIDERED EQUAL IN PERFORMANCE AND WILL NOT BE ALLOWED.
- PUMP STATION BUILDING SHALL BE METAL.
- SUCTION DIFFUSERS SHALL BE INSTALLED IN 90° FITTINGS ON SUCTION SIDE OF PUMPS.
- DIMENSIONS DO NOT INCLUDE ALLOWANCE FOR FULL FACE GASKETS BETWEEN FITTINGS.
- CONTRACTOR TO VERIFY LOCATION AND FINAL SIZE OF ELECTRICAL CONDUITS W/ SUB-CONTRACTOR PRIOR TO CONSTRUCTION
- CONCRETE THRUST BLOCKING AND PIPE STANDS NOT SHOWN FOR CLARITY. CONCRETE THRUST BLOCKING/SUPPORTS SHALL BE PROVIDED AT ALL TEES AND BENDS IN STATION.
- CONCRETE THRUST BLOCKING SHALL BE ANCHORED TO FLOOR SLAB USING REINFORCING BARS AND EPOXY DOWELS PER SPECIFICATIONS.
- PIPE STANDS SHALL BE PROVIDED AT LOCATIONS REQUIRED TO PROPERLY SUPPORT THE PIPING AND FITTINGS.
- ALL PIPING AND FITTINGS ON THE DISCHARGE SIDE OF THE PUMP SHALL HAVE CLASS #125 FLANGES. ALL PIPING AND FITTINGS ON THE SUCTION SIDE OF THE PUMPS SHALL HAVE CLASS #125 FLANGES.

NO.	DATE	REVISIONS	BY

WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS
MINVERA PUMP STATION - PLAN



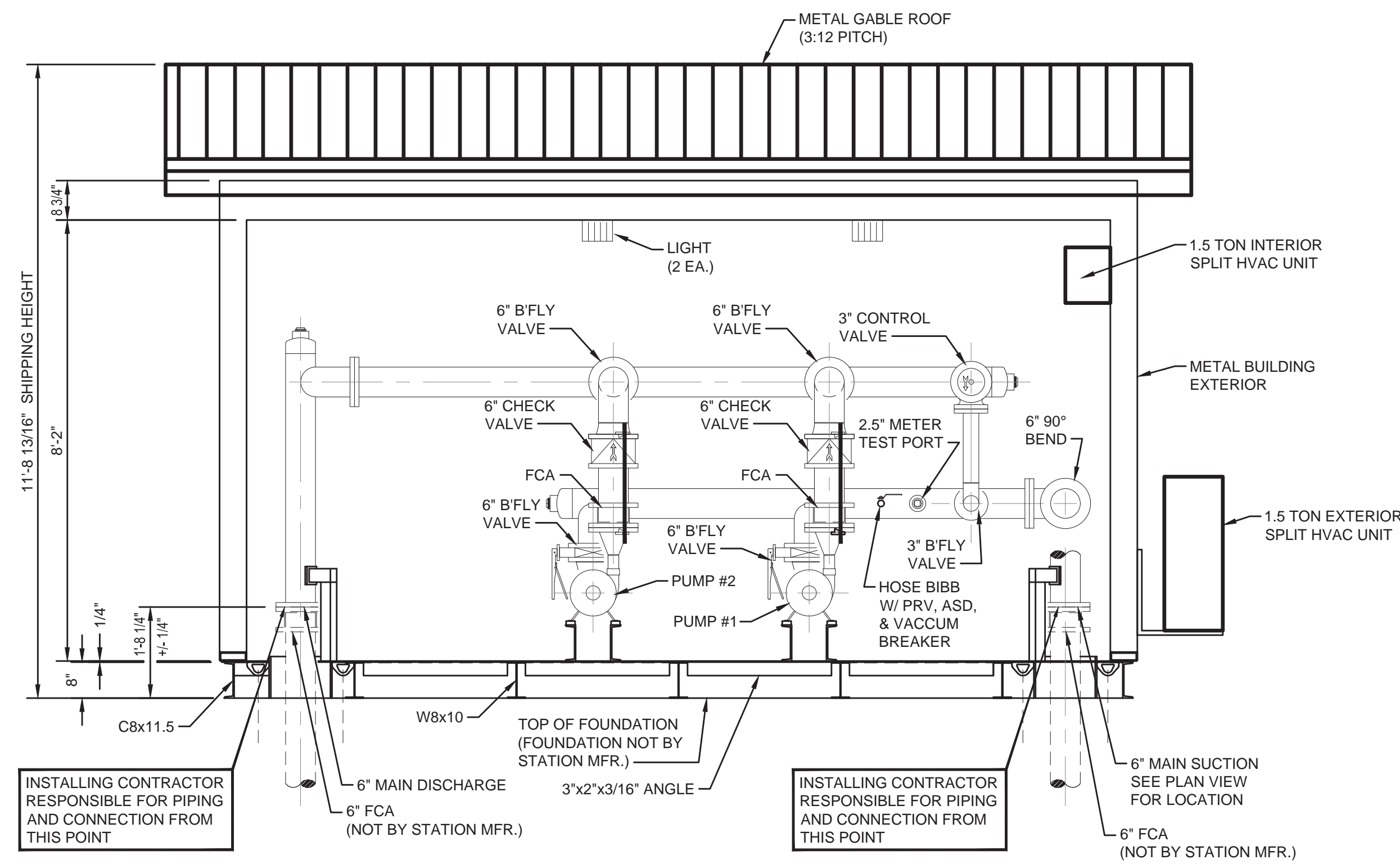
PROJECT #: 21015
DATE: FEBRUARY 2024
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DRAWN BY: WJH
CHECKED BY: CBW



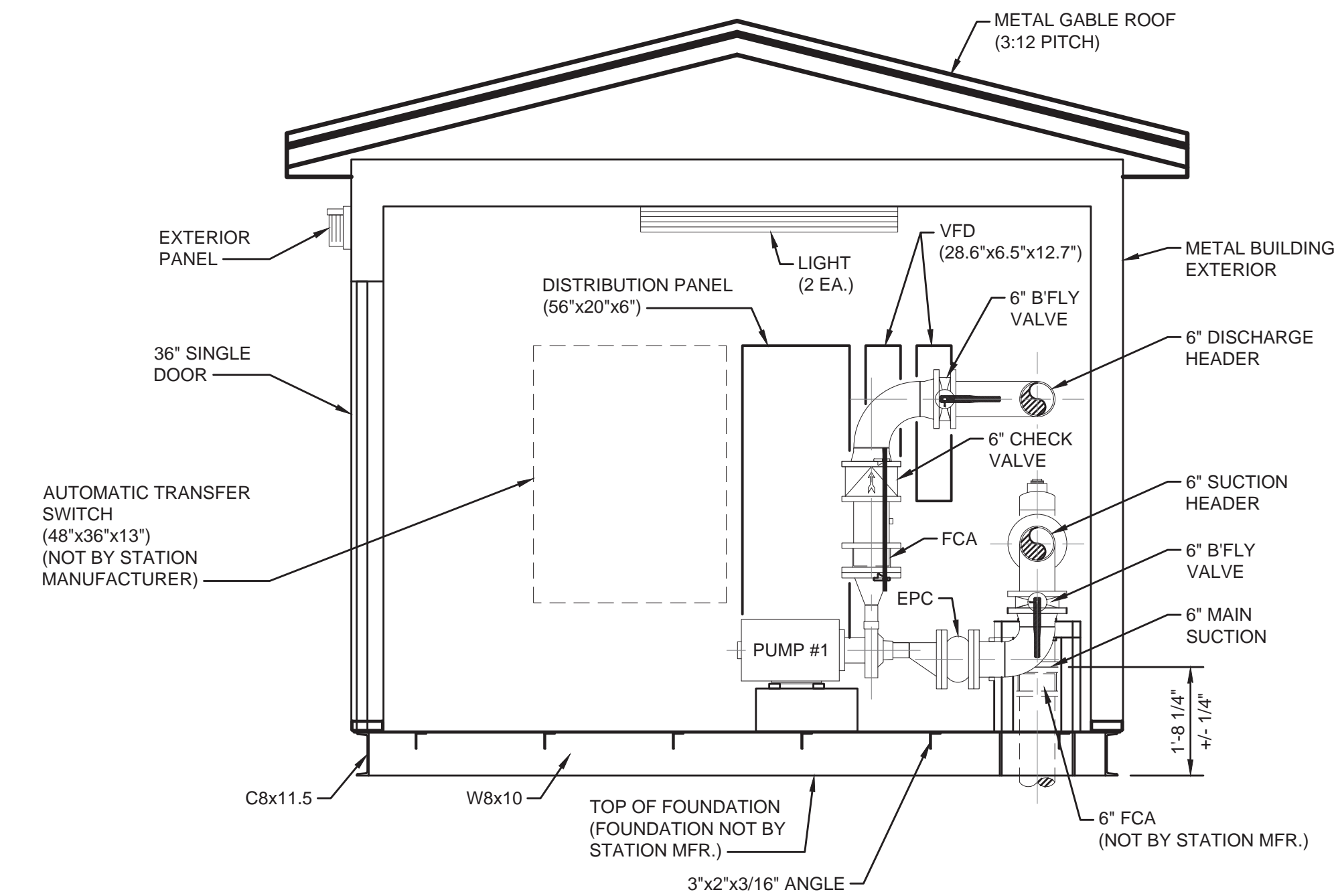
14

DOW REVIEW SET

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B SECTION B-B
SCALE: 1/2"=1'-0"
0 1 2 4



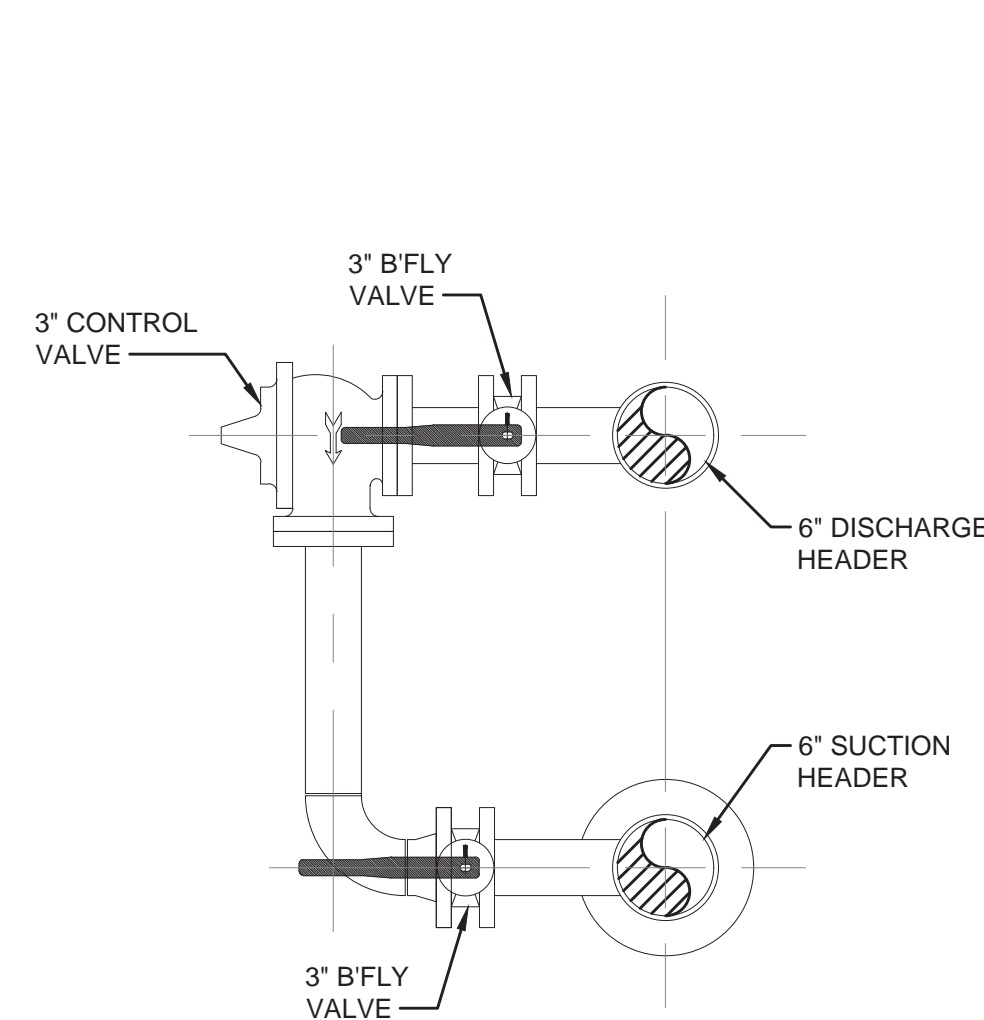
A SECTION A-A
SCALE: 1/2"=1'-0"
0 1 2 4

DESIGN CRITERIA

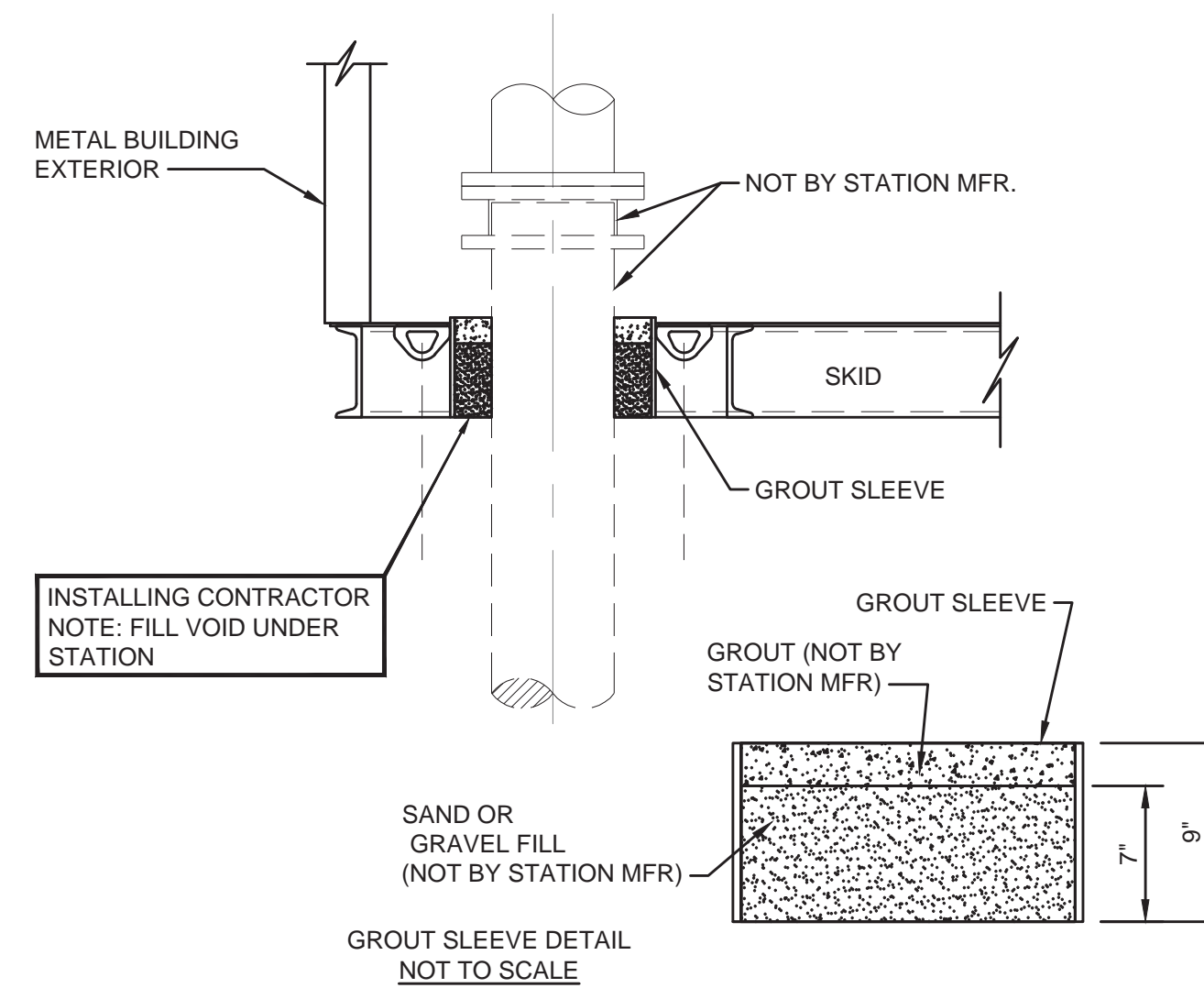
CONTROLS: TELEMETRY (NOT BY STATION MFR.)
POWER SERVICE: 480 VOLTS, 3 PHASE, 60 CYCLE

PUMP DATA

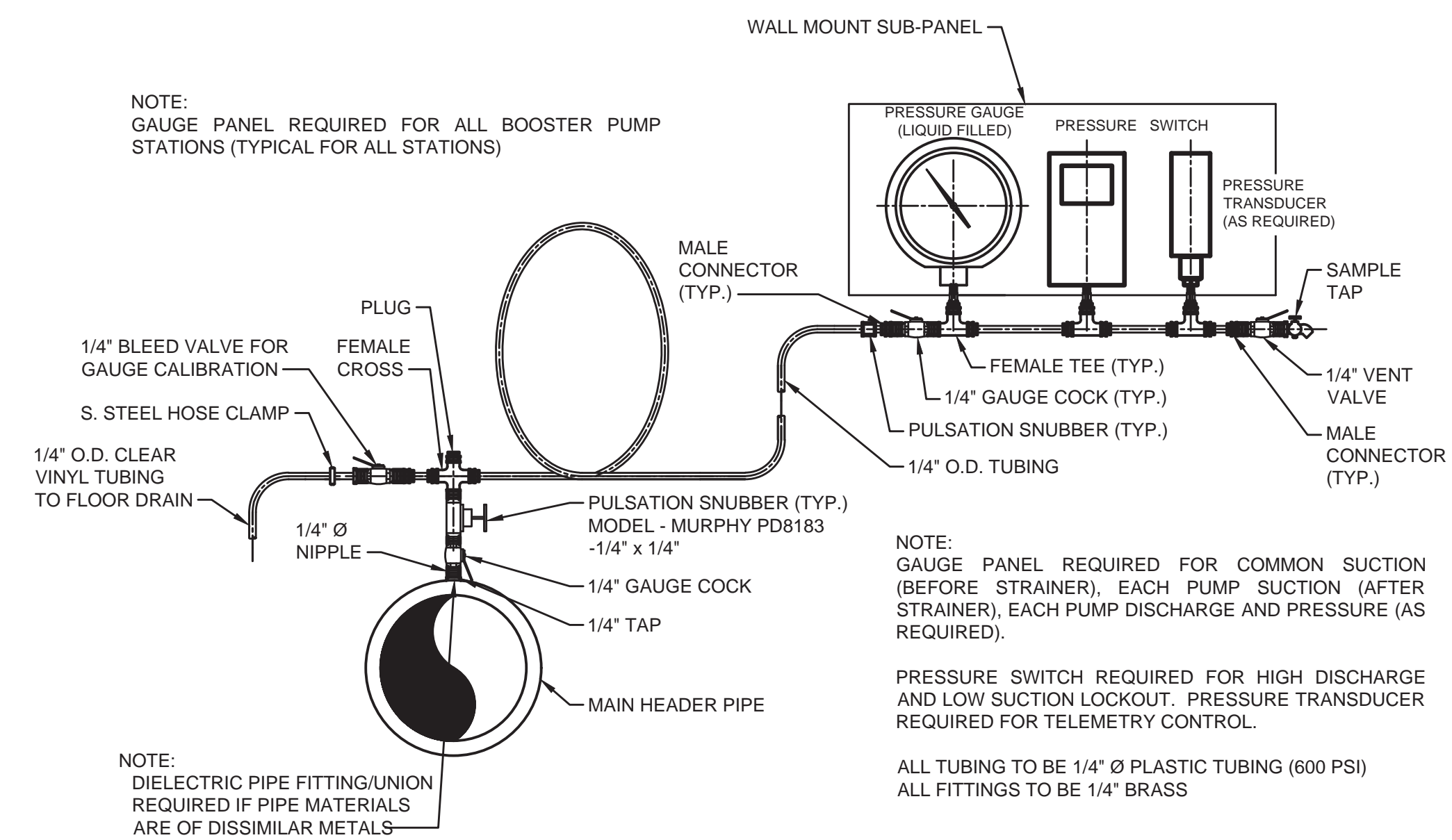
TYPE: HORIZ., CLOSE CPLG., END SUCTION
PUMP: 1 & 2
CAPACITY: 250 G.P.M. AT 150 FEET T.D.H.
SIZE: 2" x 2-1/2" X 7"
MOTOR: 15 H.P., 3600 R.P.M.



SECTION A-A
NOT TO SCALE



TYPICAL GROUT DETAIL
NOT TO SCALE



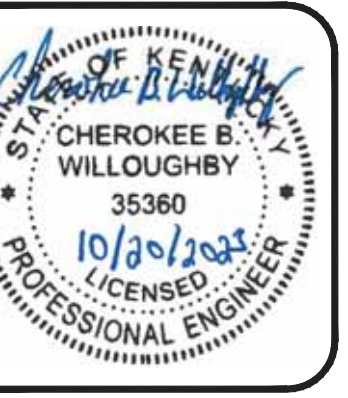
SUCTION/DISCHARGE GAUGE PANEL
NOT TO SCALE

NO.	DATE	REVISIONS	BY

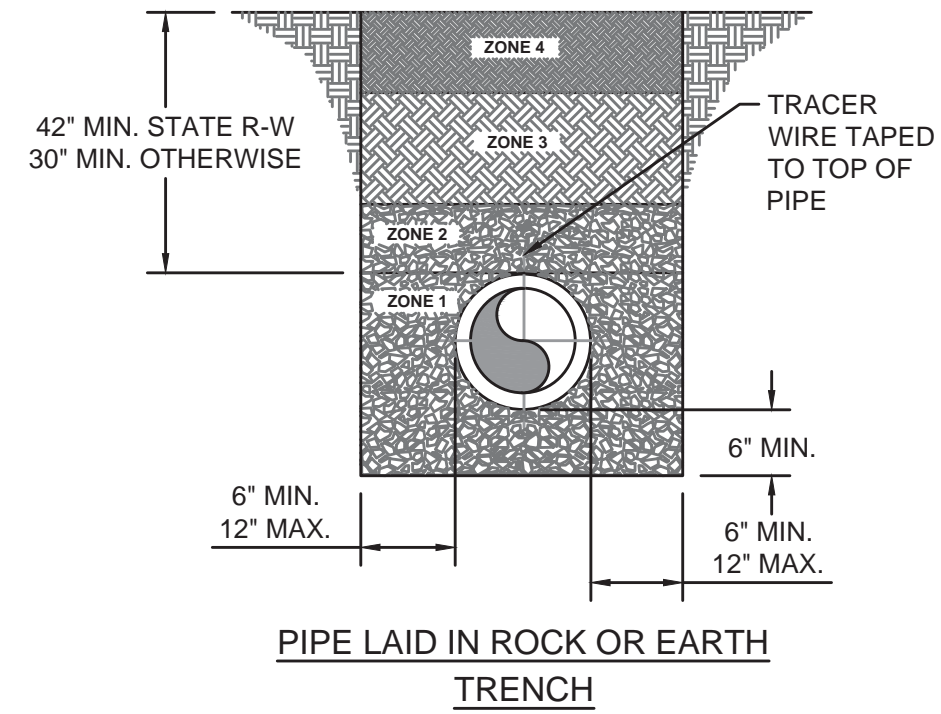
WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS
MINERVA PUMP STATION - SECTIONS



PROJECT #: 21015
DATE: FEBRUARY 2024
PROJECT MGR: PBR
DRAWN BY: WJH
CHECKED BY: CBW



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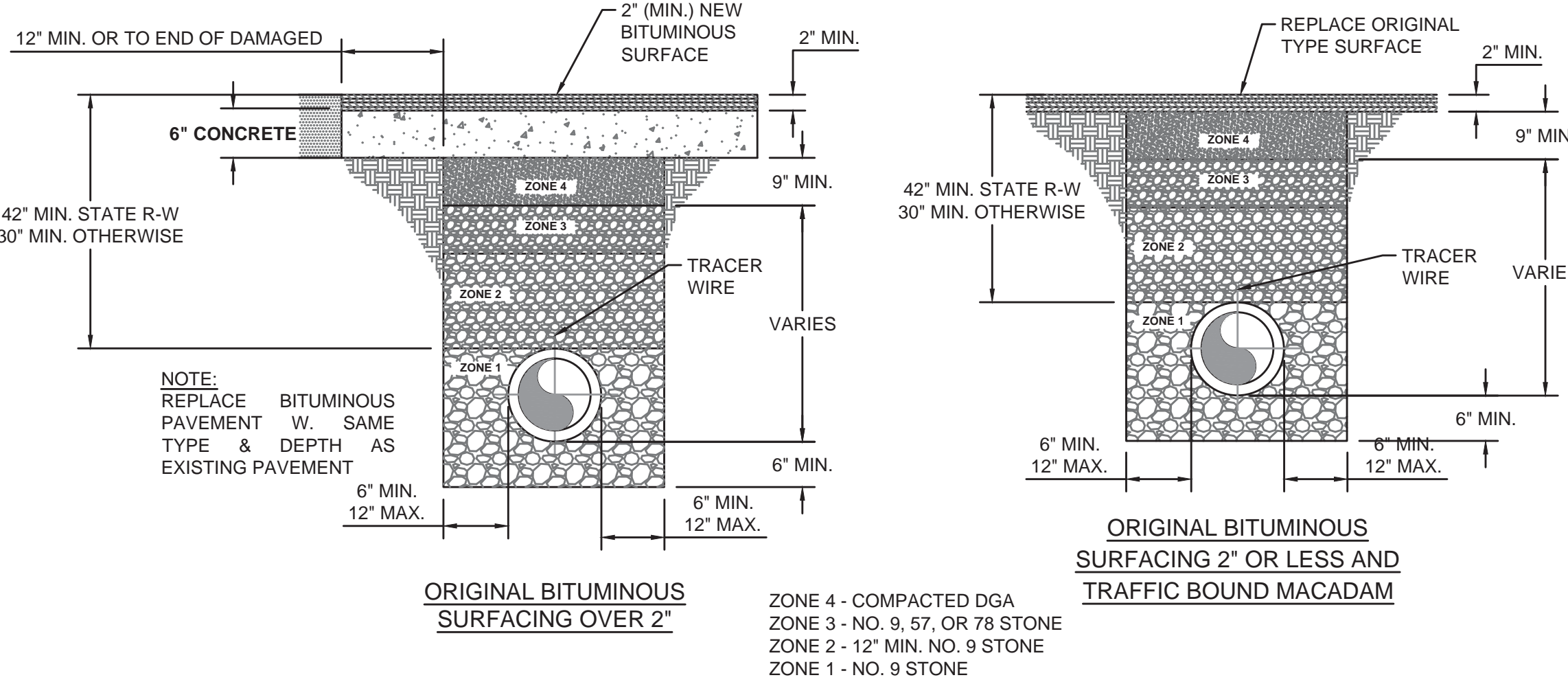
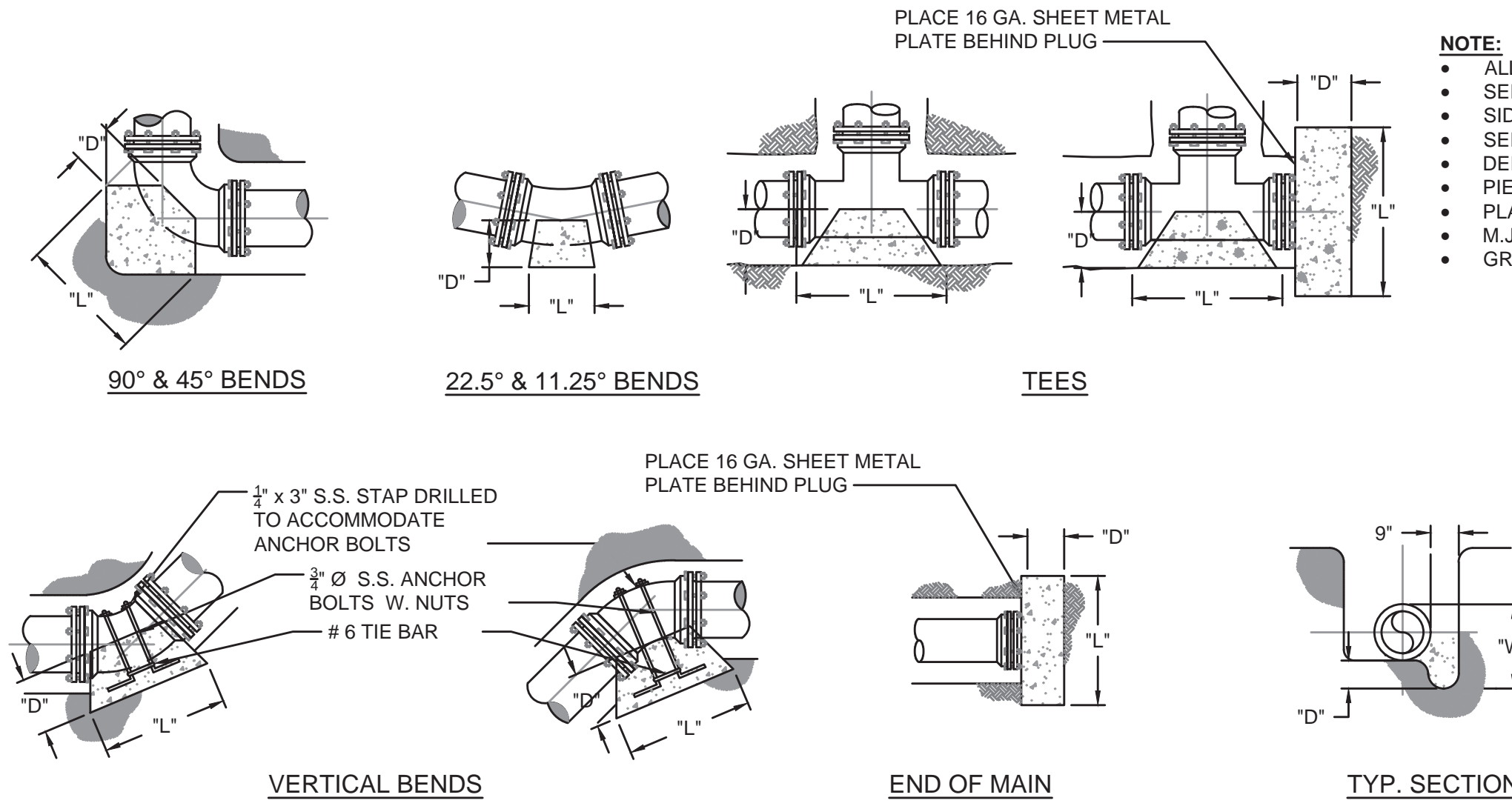
DETAIL NOTES:

- 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.

THRUST BLOCK SCHEDULE

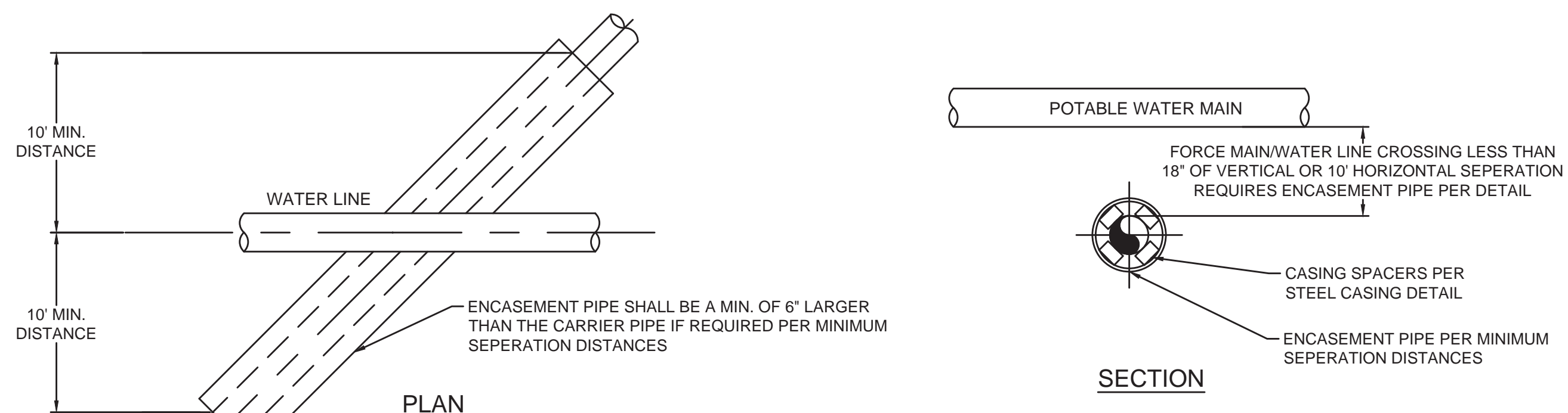
PIPE SIZE	90° BEND			45° BEND			22 1/2° BEND			11 1/2° BEND			TEE & DEAD ENDS		
	BEARING AREA	YDS OF CONCRETE	D W L	BEARING AREA	YDS OF CONCRETE	D W L	BEARING AREA	YDS OF CONCRETE	D W L	BEARING AREA	YDS OF CONCRETE	D W L	BEARING AREA	YDS OF CONCRETE	D W L
4"	3.750	.21	18 30 18	1.750	.10	18 18 14	1.000	.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	37.500	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



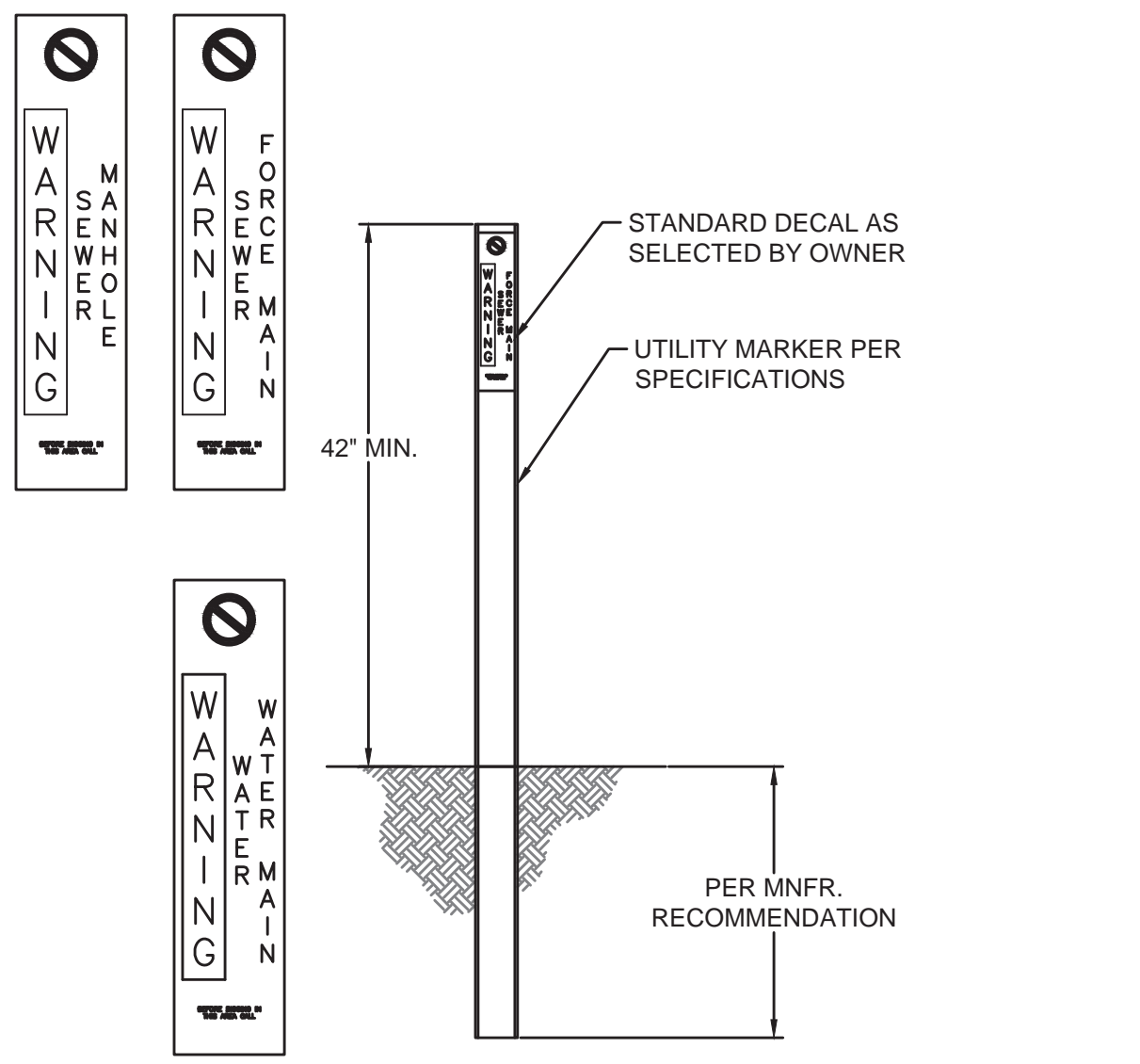
PIPE BACKFILL - DETAIL

NOT TO SCALE



POTABLE WATER LINE & FORCE MAIN CROSSING - DETAIL

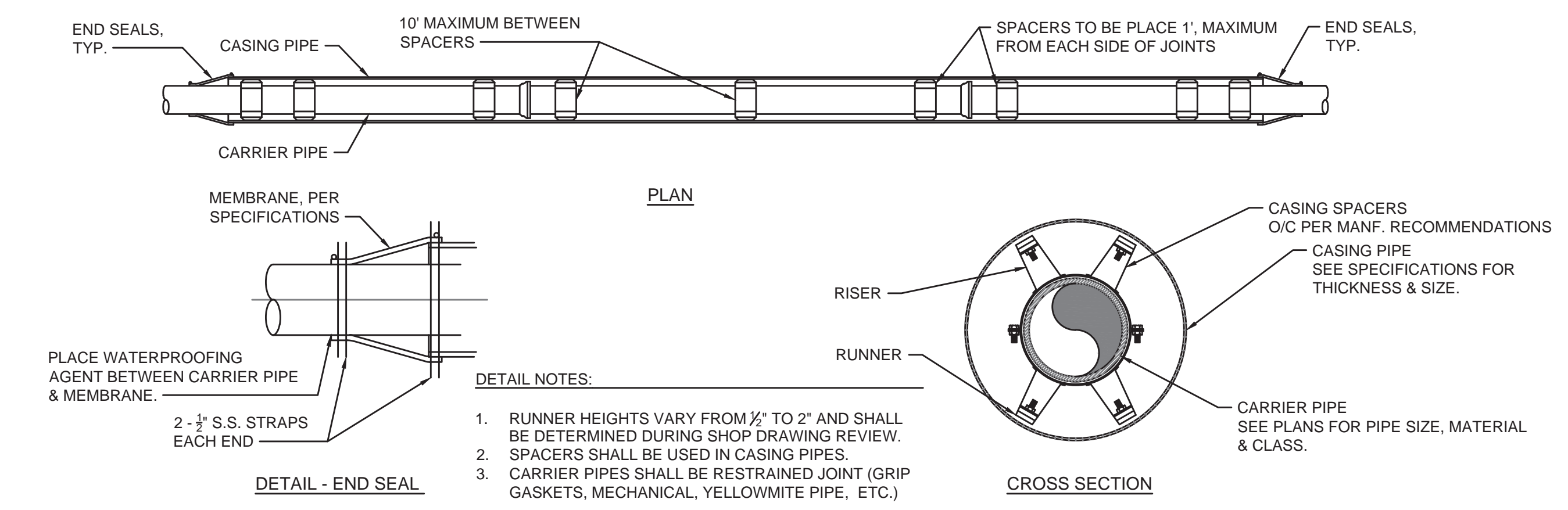
NOT TO SCALE



UTILITY MARKER - DETAIL

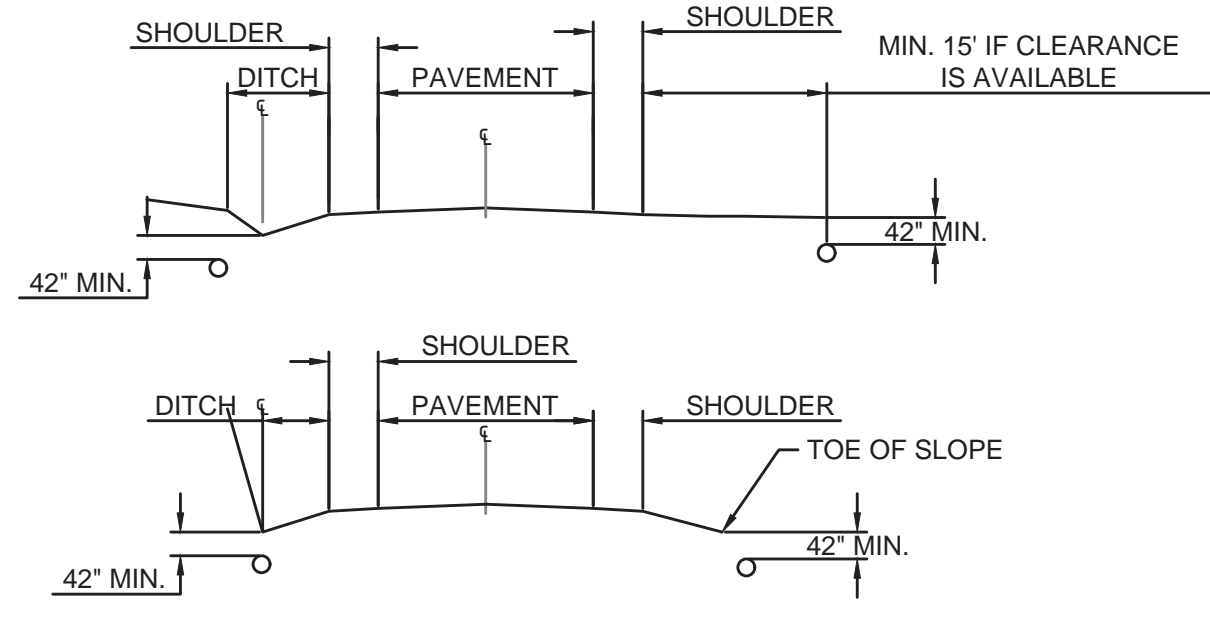
NOT TO SCALE

- 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 SEPARATION WITH OTHER FACILITIES.
 - OPEN TRENCH NO CLOSER THAN THE DITCHLINE OR TOE OF FILL FROM THE EDGE 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 ENCASMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THEN THE OUTSIDE DIA-METER OF THE ENCASMENT PIPE.
 - SEE CASING SPACER DETAIL FOR PLACEMENT OF SPACER.



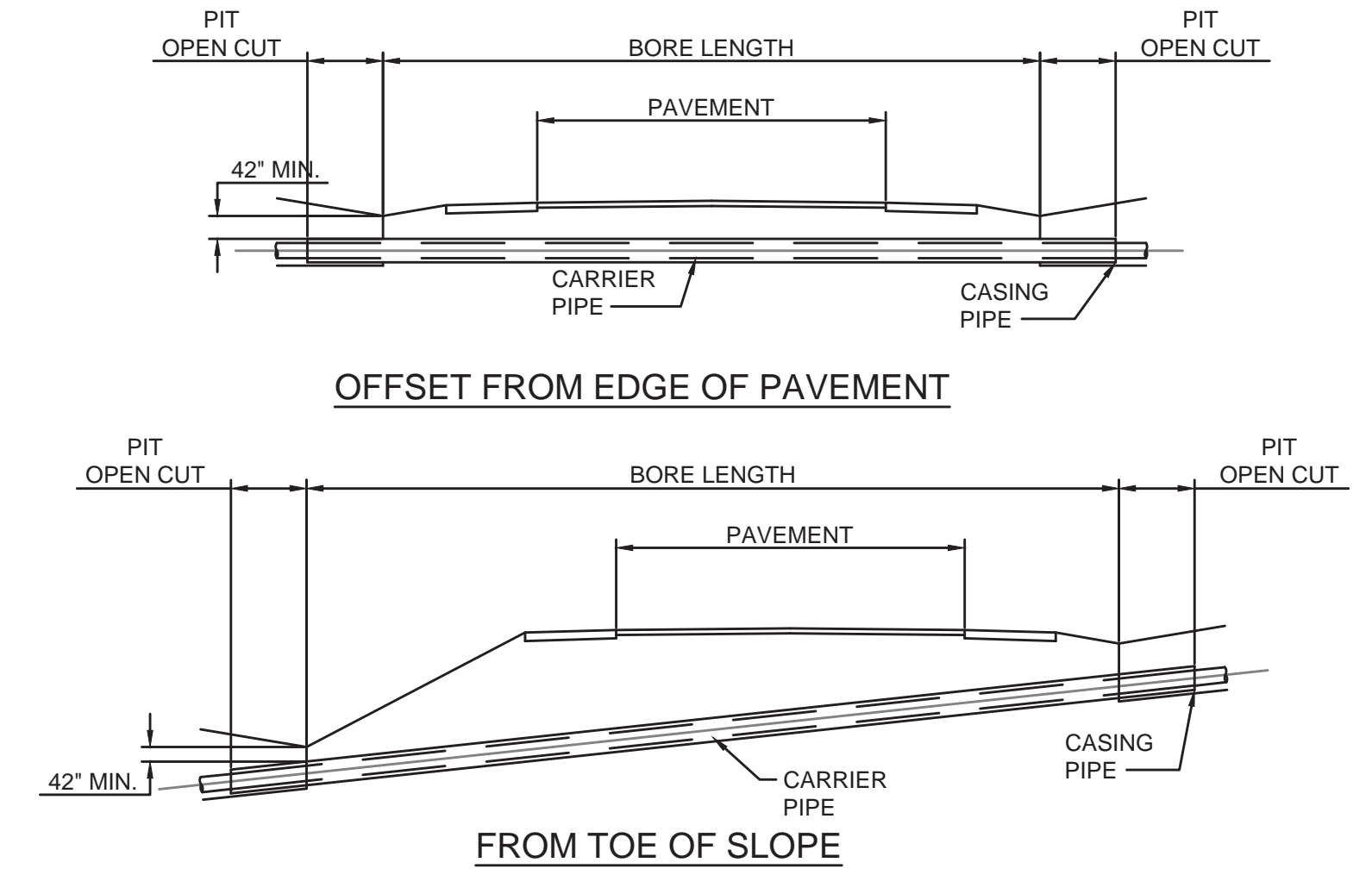
CASING - DETAIL

NOT TO SCALE



UTILITY PIPELINE WITHIN KTC ROW - DETAIL

NOT TO SCALE



KTC CROSSING - DETAIL

NOT TO SCALE

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WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS
STANDARD DETAILS - PIPELINES

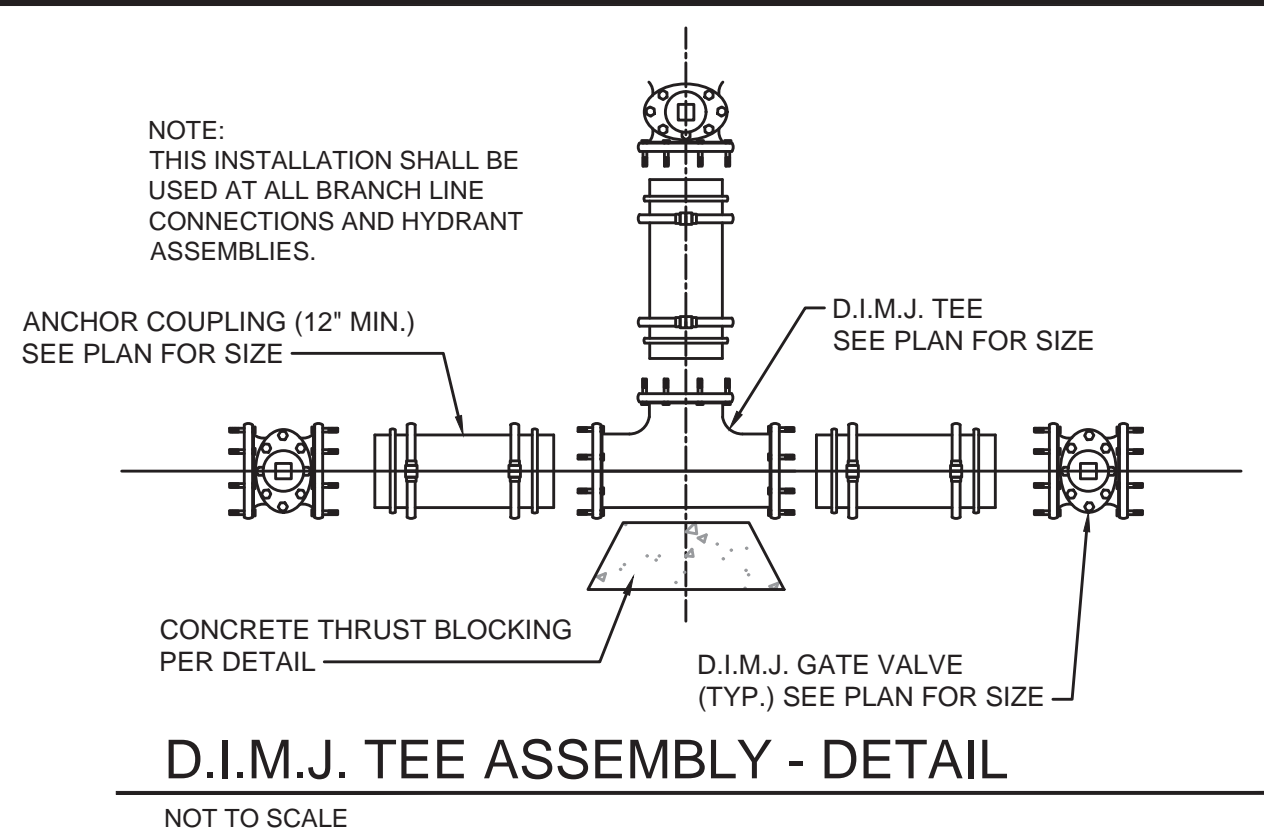
BLUEGRASS ENGINEERING PLLC
222 East Main Street, Ste. 1 • Georgetown, KY 40324

PROJECT #: 21015
DATE: FEBRUARY 2024
PROJECT MGR: PBR
DRAWN BY: WJH
CHECKED BY: CBW

CHEROKEE B. WILLOUGHBY
35360
LICENSED PROFESSIONAL ENGINEER

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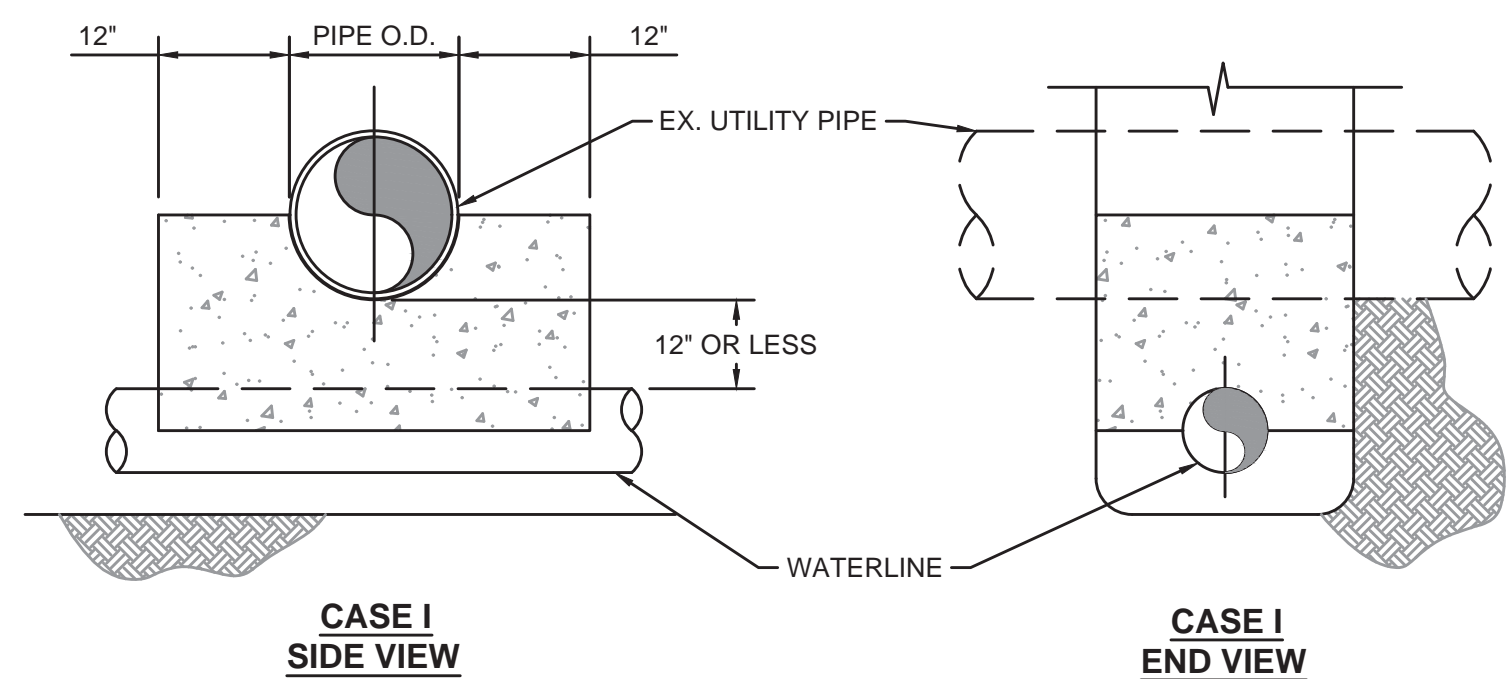
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D.I.M.J. TEE ASSEMBLY - DETAIL

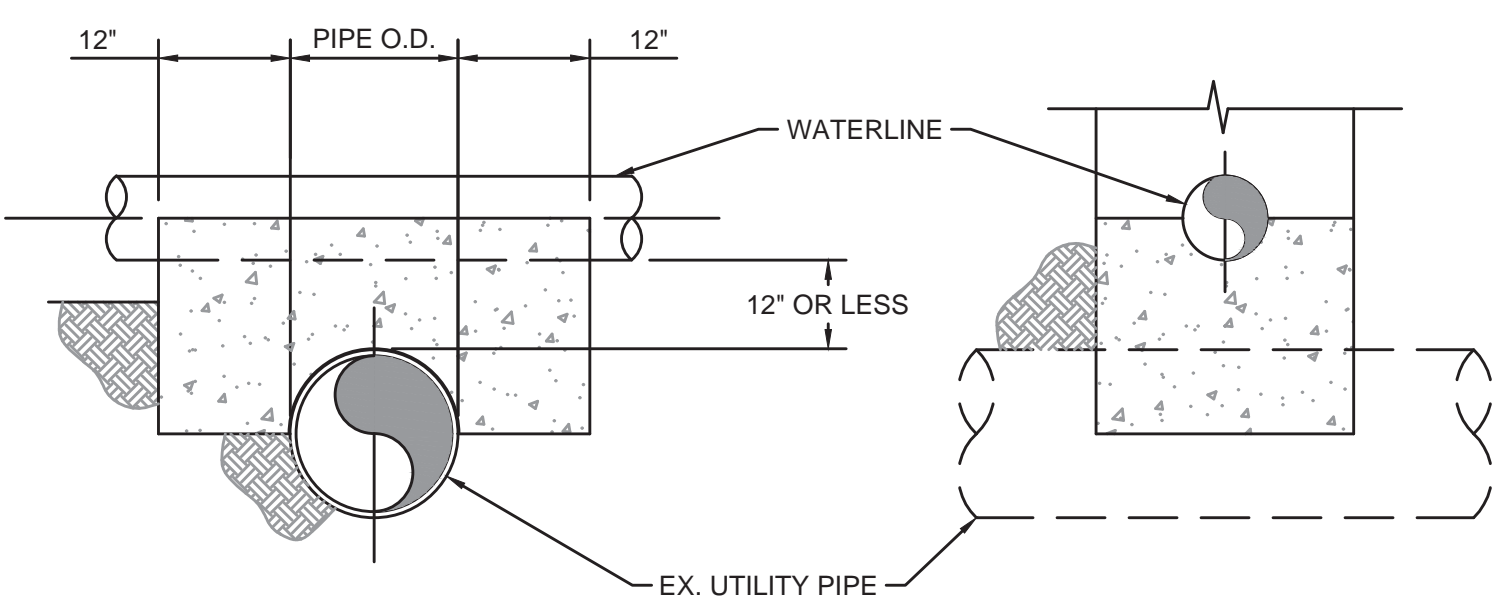
NOT TO SCALE

- NOTES:
- THIS DETAIL IS ONLY FOR NON-CONTAMINATE PIPE/CONDUIT. UTILITY PIPE IS DEFINED AS WATER, NATURAL GAS, TELEPHONE, ELECTRICAL CONDUITS OR STORM SEWER.
 - IF "UTILITY PIPE" IS A SANITARY SEWER PIPE (FORCE MAIN OR GRAVITY) SEE DETAIL FOR POTABLE WATER & FORCE MAIN CROSSING.
 - 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



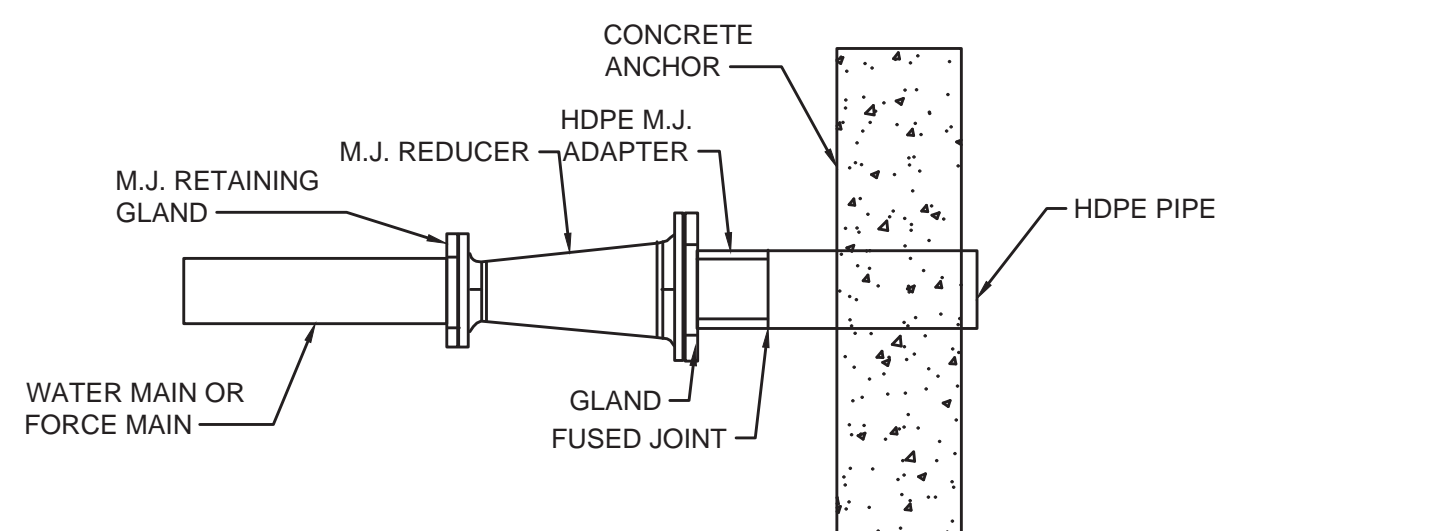
CASE II SIDE VIEW

CASE II END VIEW

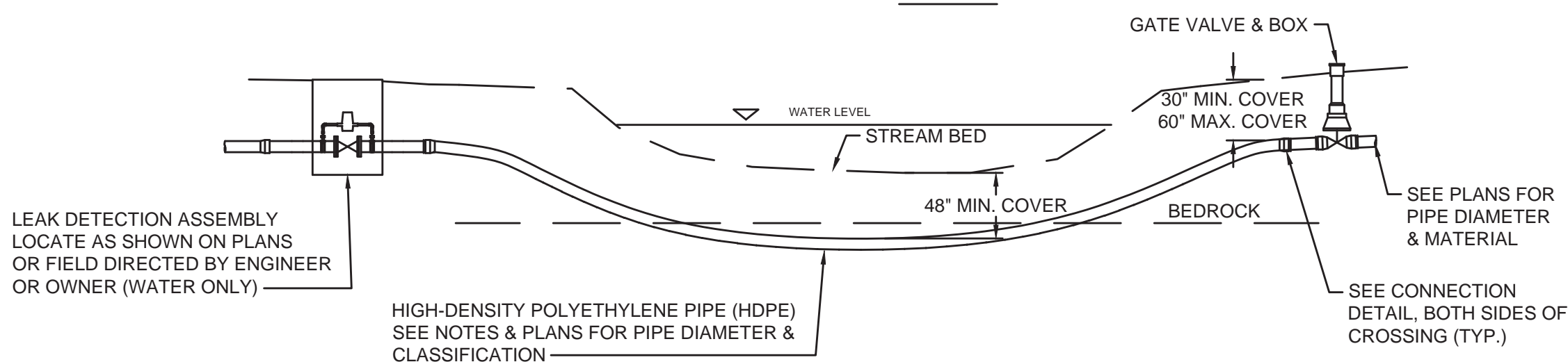
UTILITY CROSSING CONCRETE ASSEMBLY - DETAIL

NOT TO SCALE

- NOTES:
- CONNECTION OF THE HDPE TO THE PVC OR DUCTILE IRON WATERLINE SHALL BE NO DEEPER THAN 5 FEET FROM THE GROUND ELEVATION.
 - DIRECTIONAL BORE SHALL BE MADE IN BED ROCK WITH A MIN DEPTH OF 36\".
 - 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.
 - SEE PLANS FOR PIPE LOCATION, MATERIAL & SIZE.
 - USE ANGLED FITTINGS AS NECESSARY TO MAKE CONNECTION BETWEEN PIPES.

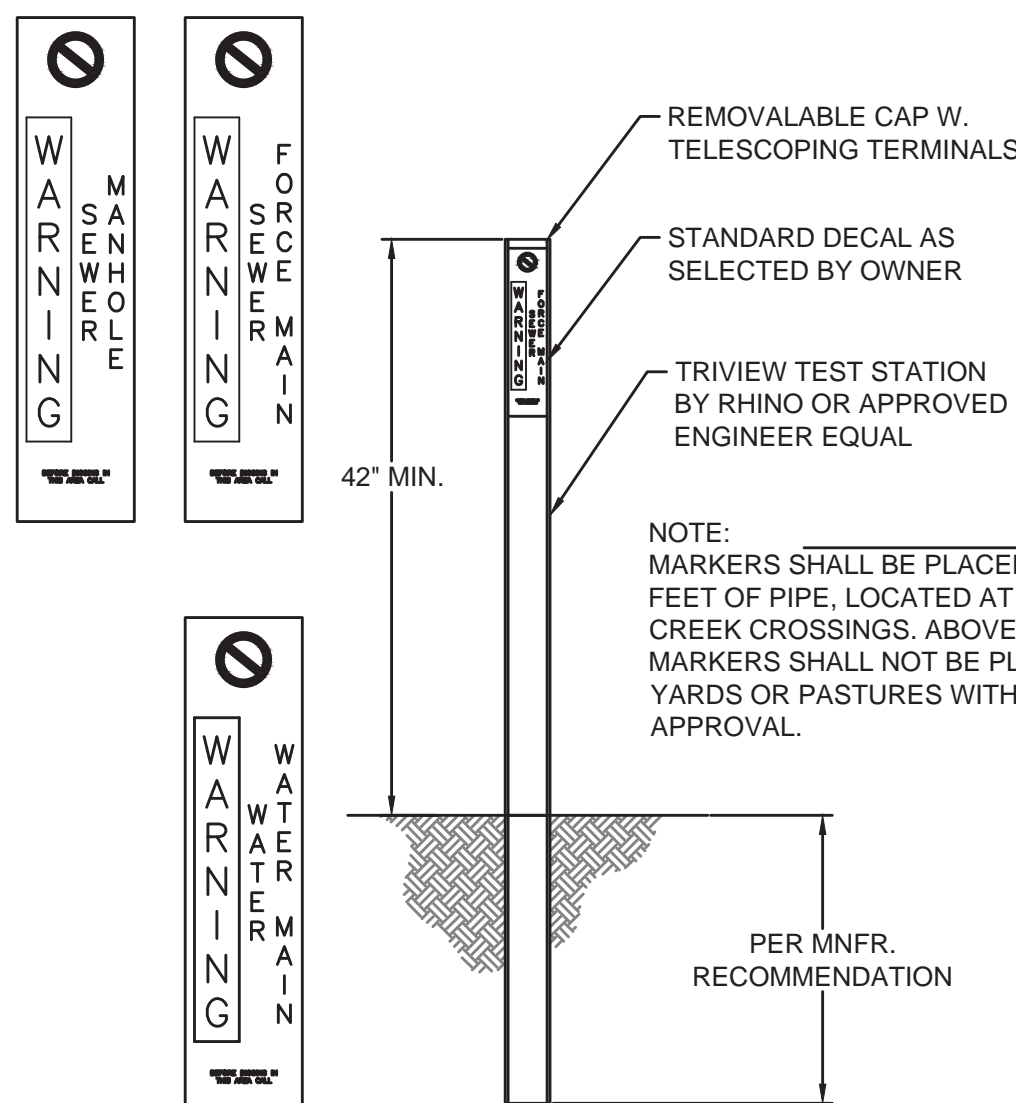


CONNECTION DETAIL



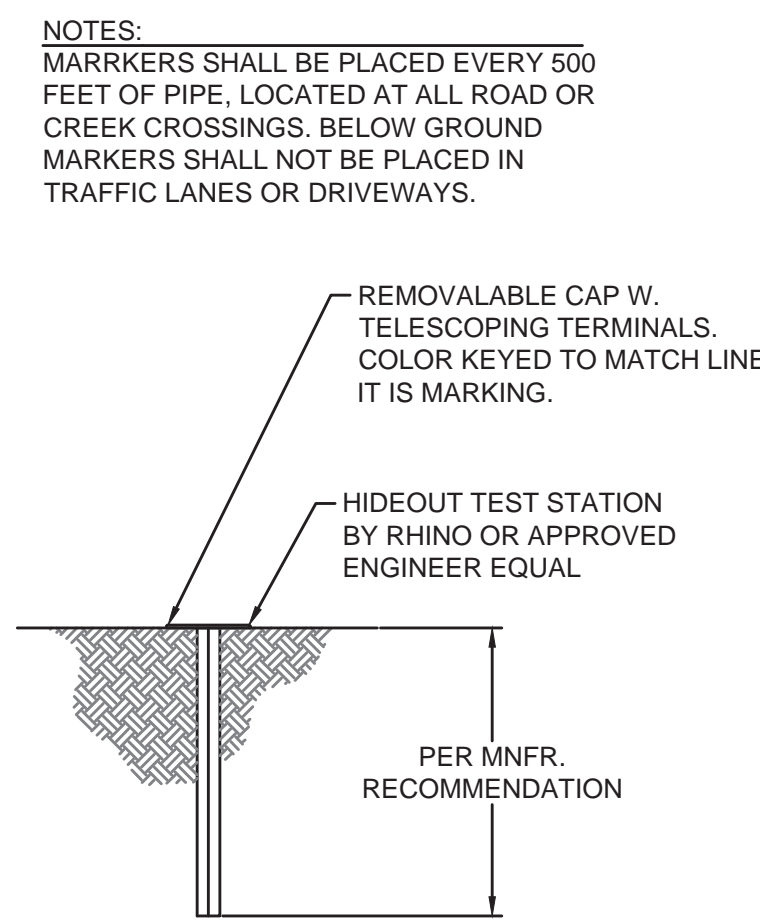
DIRECTIONAL DRILLED CREEK CROSSING - DETAIL

NOT TO SCALE



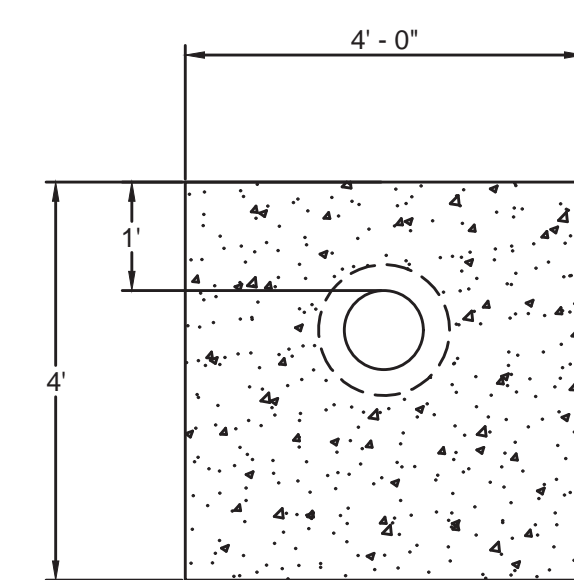
ABOVE GROUND TEST STATION - DETAIL

NOT TO SCALE

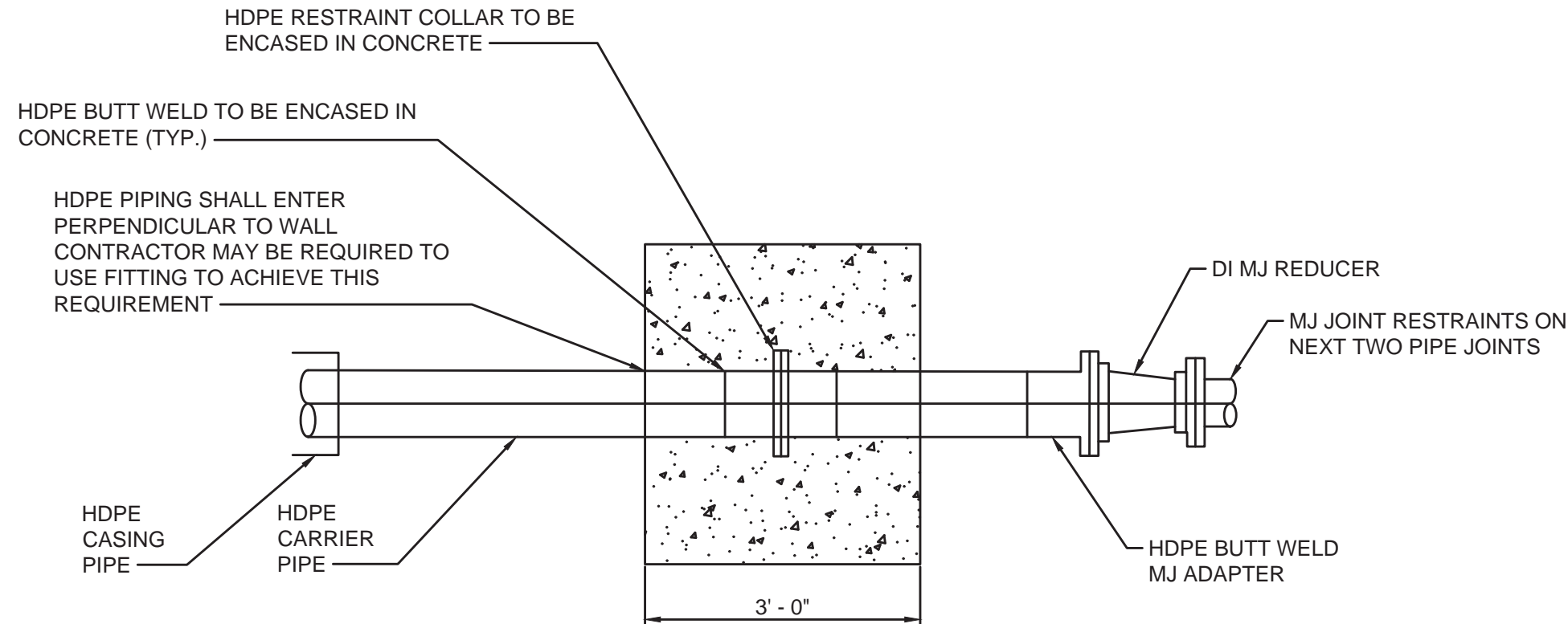


BELOW GROUND TEST STATION - DETAIL

NOT TO SCALE

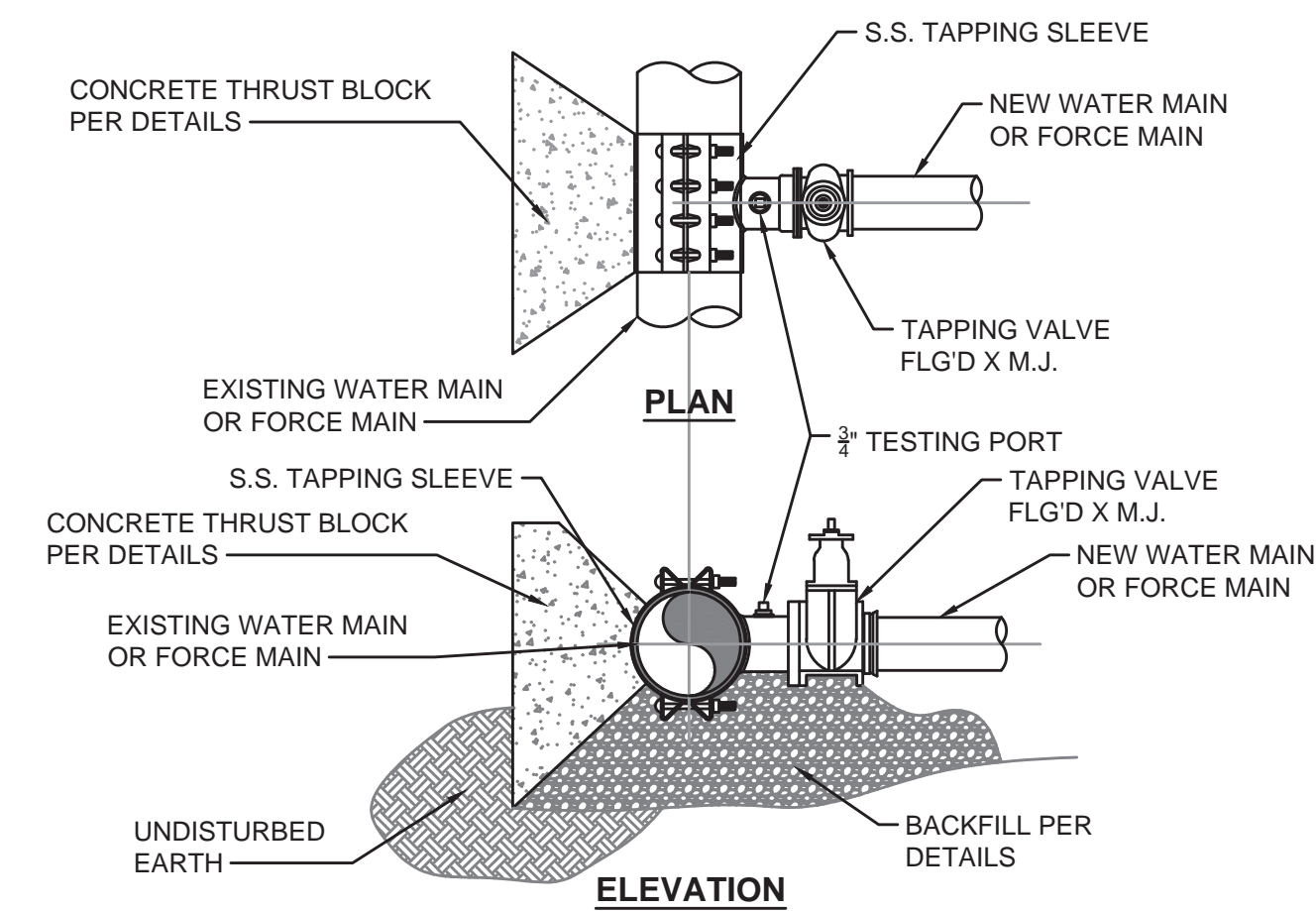


SECTION



HDPE RESTRAINT WALL

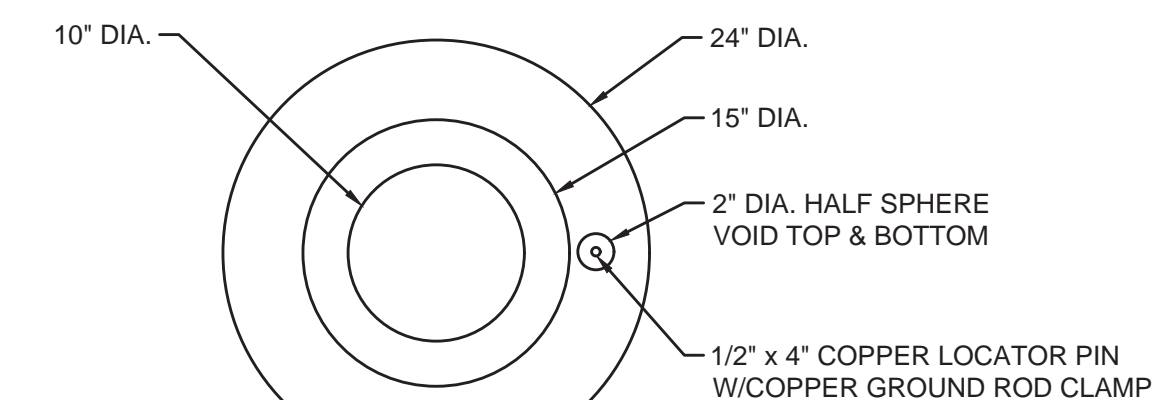
NOT TO SCALE



STAINLESS STEEL TAPPING SLEEVE & VALVE ASSEMBLY - DETAIL

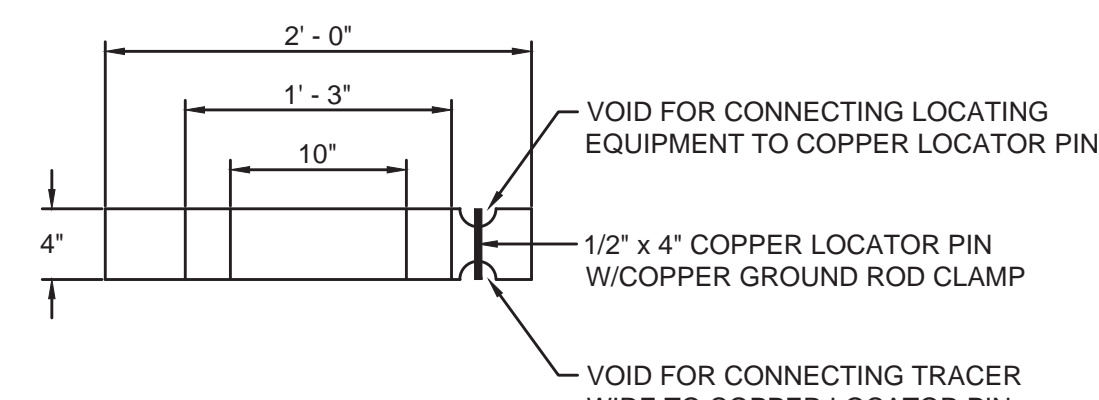
NOT TO SCALE

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



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NOT TO SCALE



GATE VALVE ASSEMBLY - DETAIL

NOT TO SCALE

NO.	DATE	BY	REVISIONS

WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS
STANDARD DETAILS - PIPELINES

BLUEGRASS
ENGINEERING PLLC

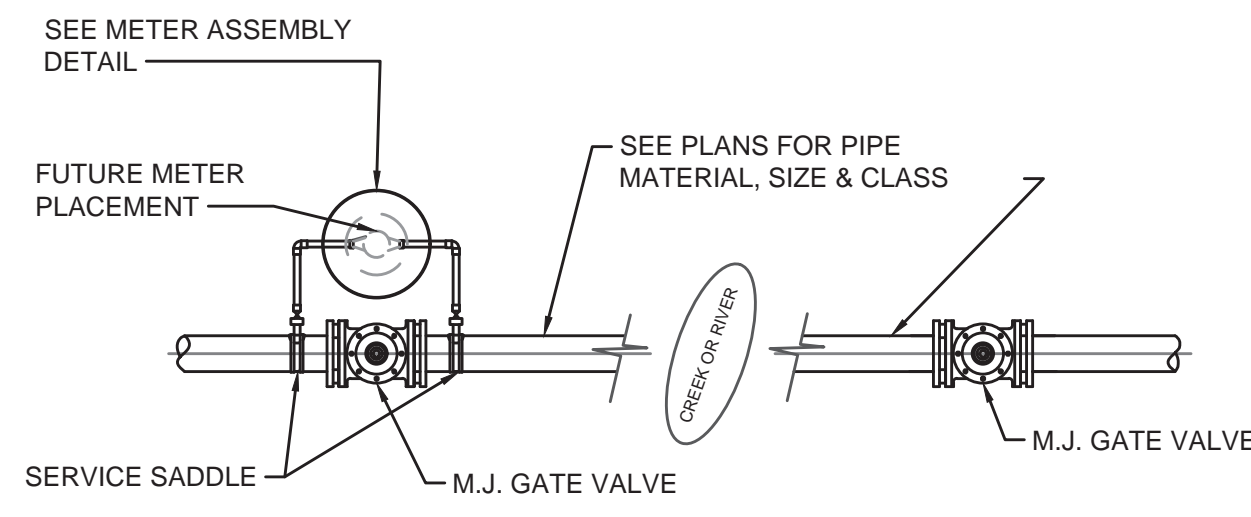
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CHEROKEE B. WILLOUGHBY
35360
10/30/2023
LICENSED PROFESSIONAL ENGINEER

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LEAK DETECTION ASSEMBLY - DETAIL

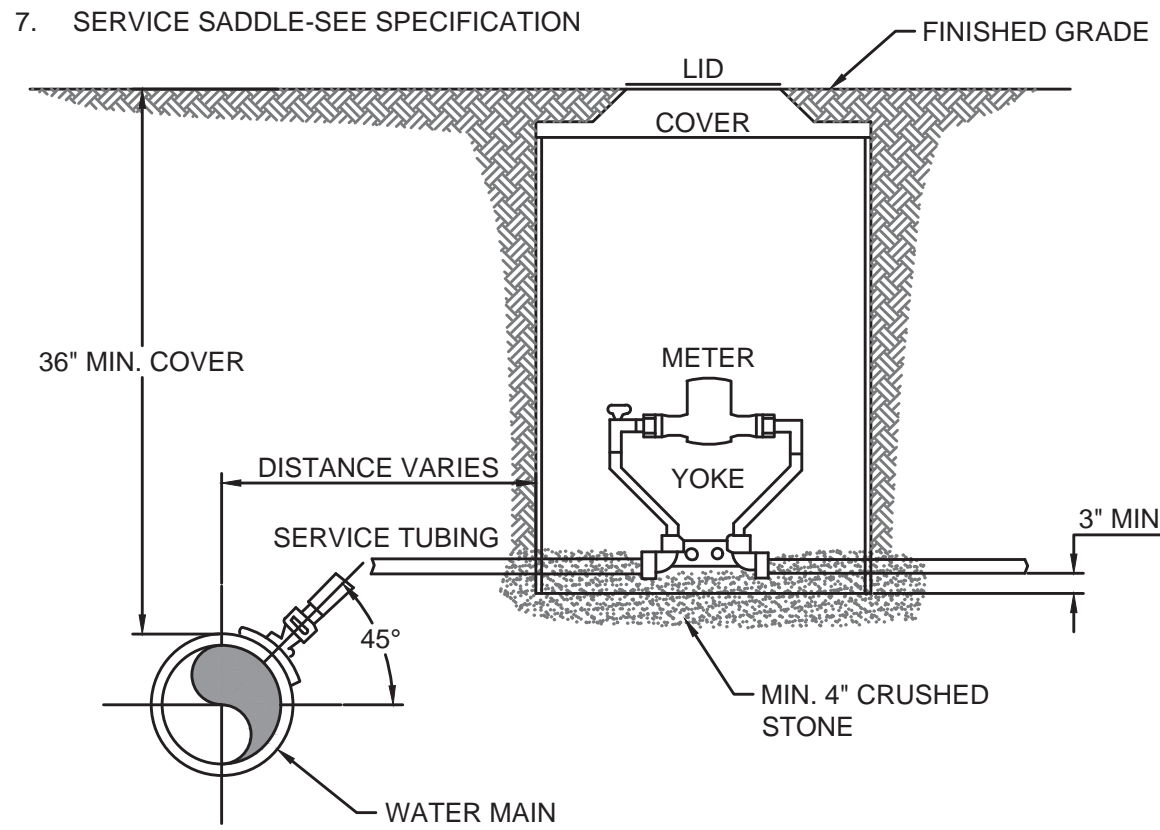
NOT TO SCALE

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.

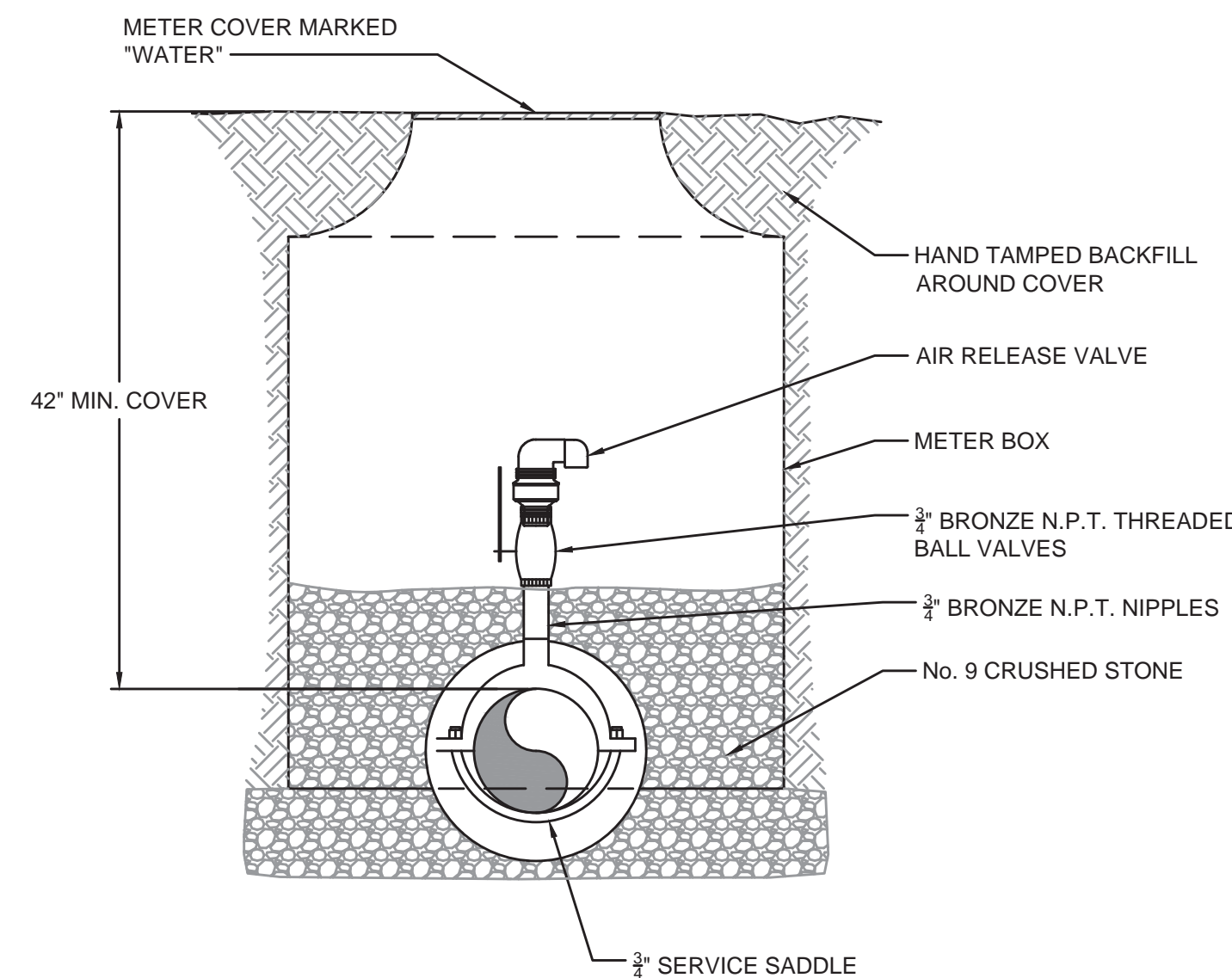
METER MATERIAL SCHEDULE

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



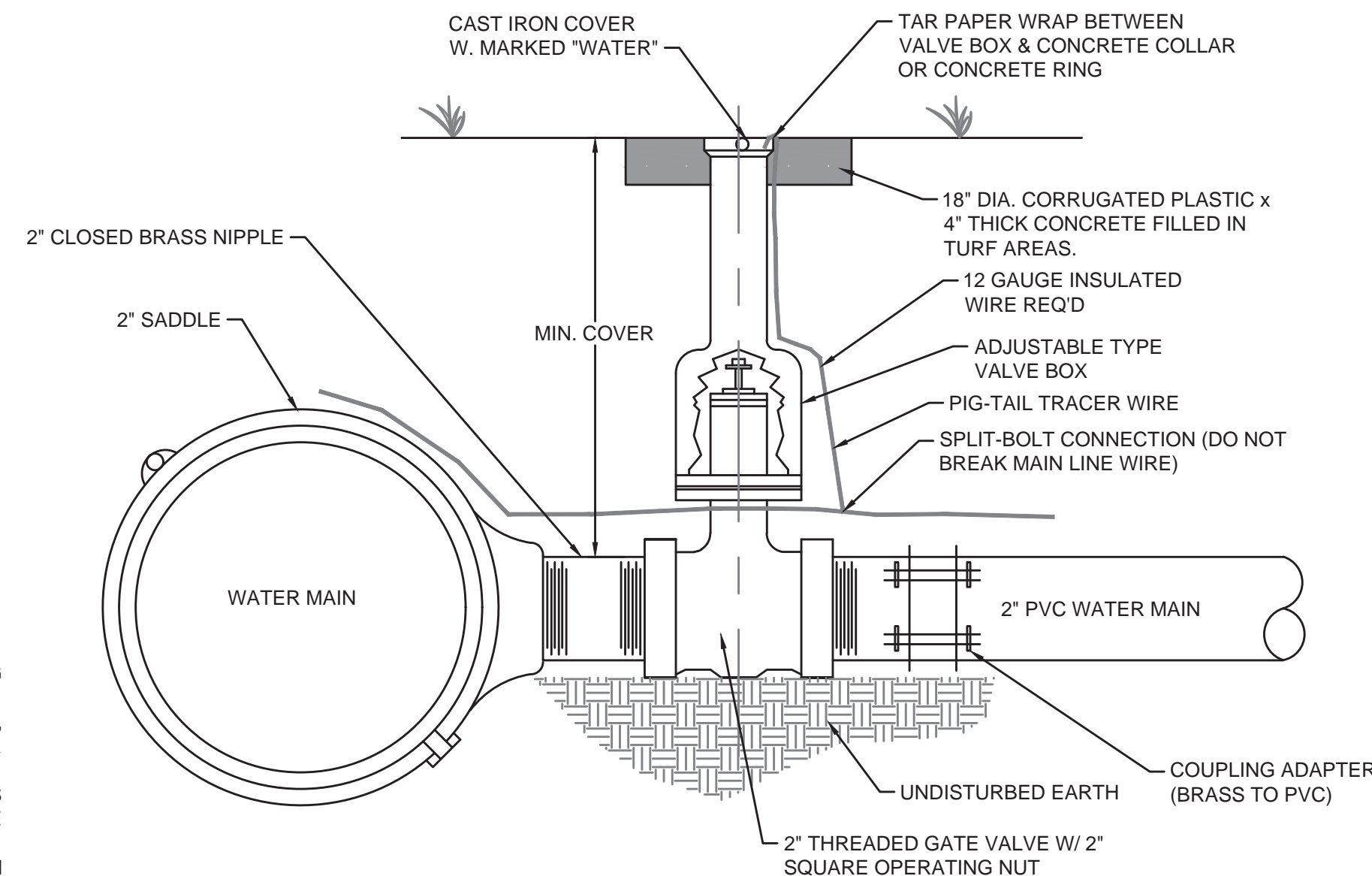
METER ASSEMBLY - DETAIL

NOT TO SCALE



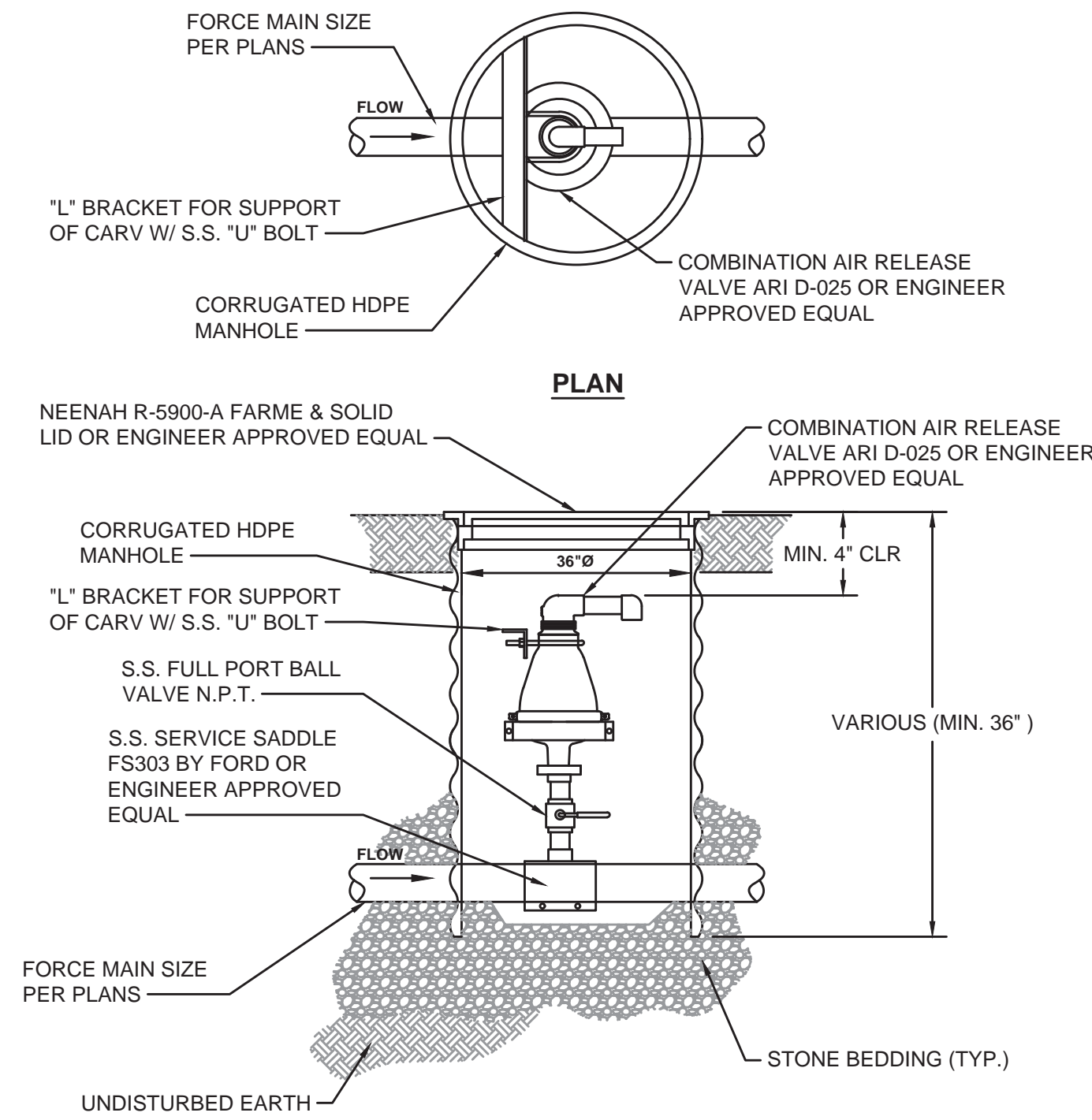
AIR RELEASE VALVE ASSEMBLY WATERLINE ONLY - DETAIL

NOT TO SCALE



CONNECTION FOR 2" WATER MAINS

NOT TO SCALE



COMBINATION AIR RELEASE VALVE ASSEMBLY FORCE MAIN ONLY - DETAIL

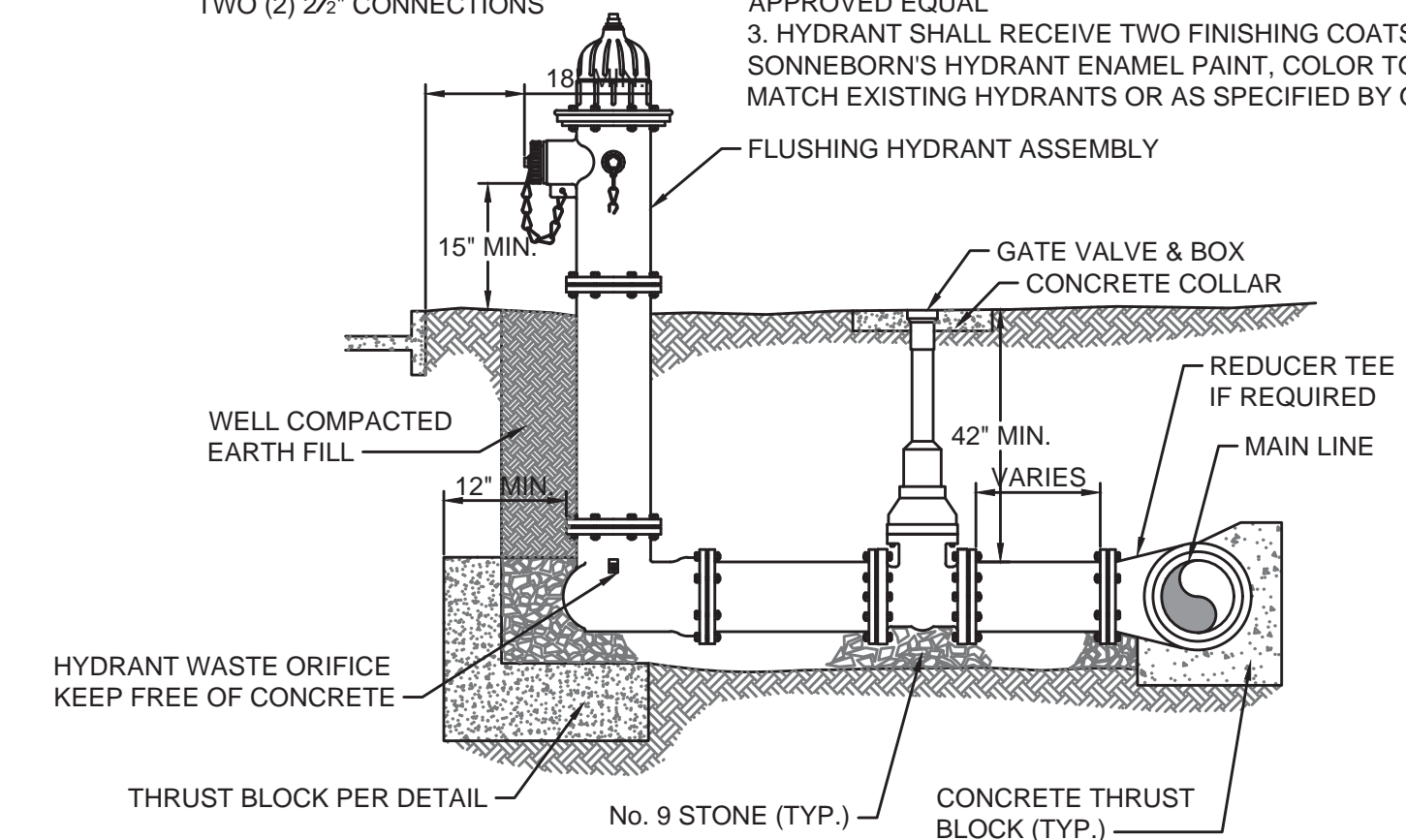
NOT TO SCALE

SANITARY SEWER AIR & VACUUM RELEASE VALVES SHALL BE A.R.I. MODEL D-025 OR ENGINEER APPROVED EQUAL 1/2" INLET AND OUTLET. ALL VALVES SHALL BE PROVIDED W/ BACKFLUSHING ATTACHMENTS.

NOTE:
TYPE 1 FLUSHING HYDRANT
TWO (2) 2 1/2" CONNECTIONS AND ONE (1) 4 1/2" CONNECTION

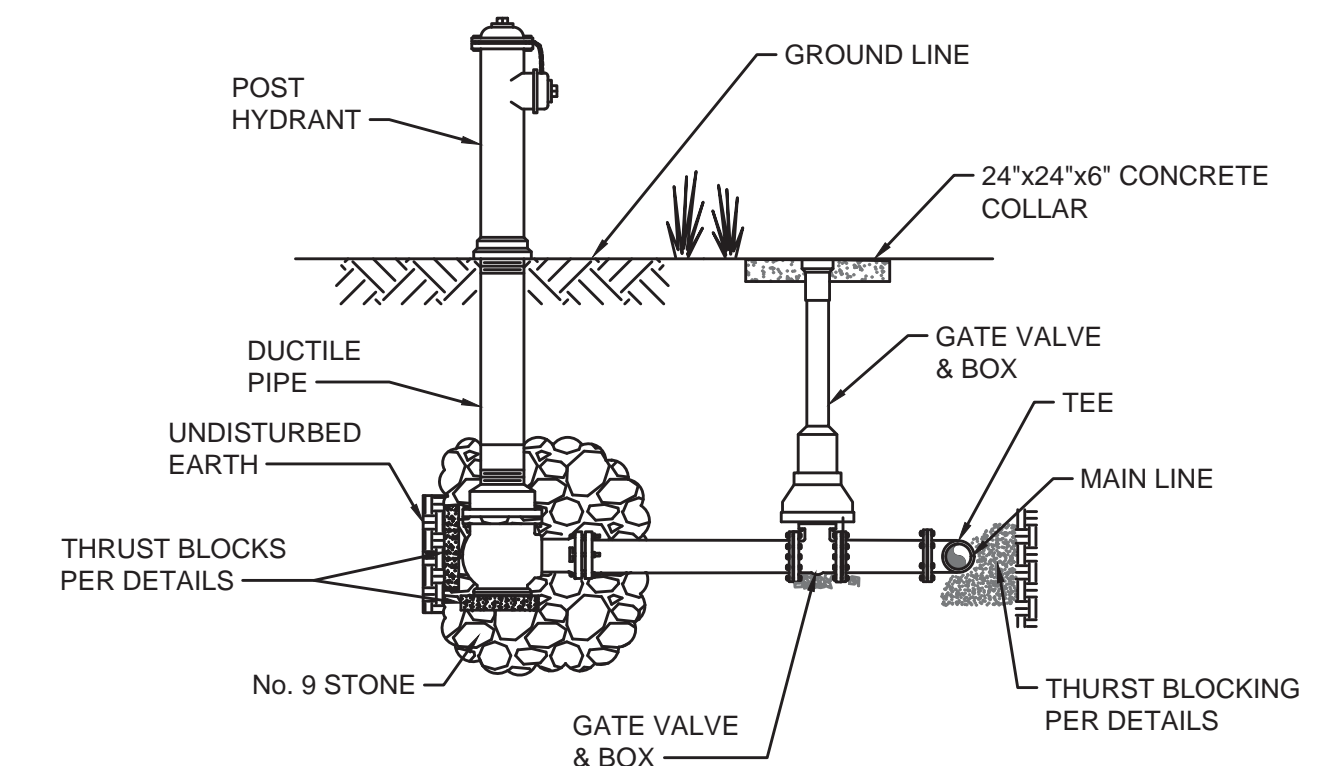
NOTE:
TYPE 2 FLUSHING HYDRANT
TWO (2) 2 1/2" CONNECTIONS

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 E4IN" 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



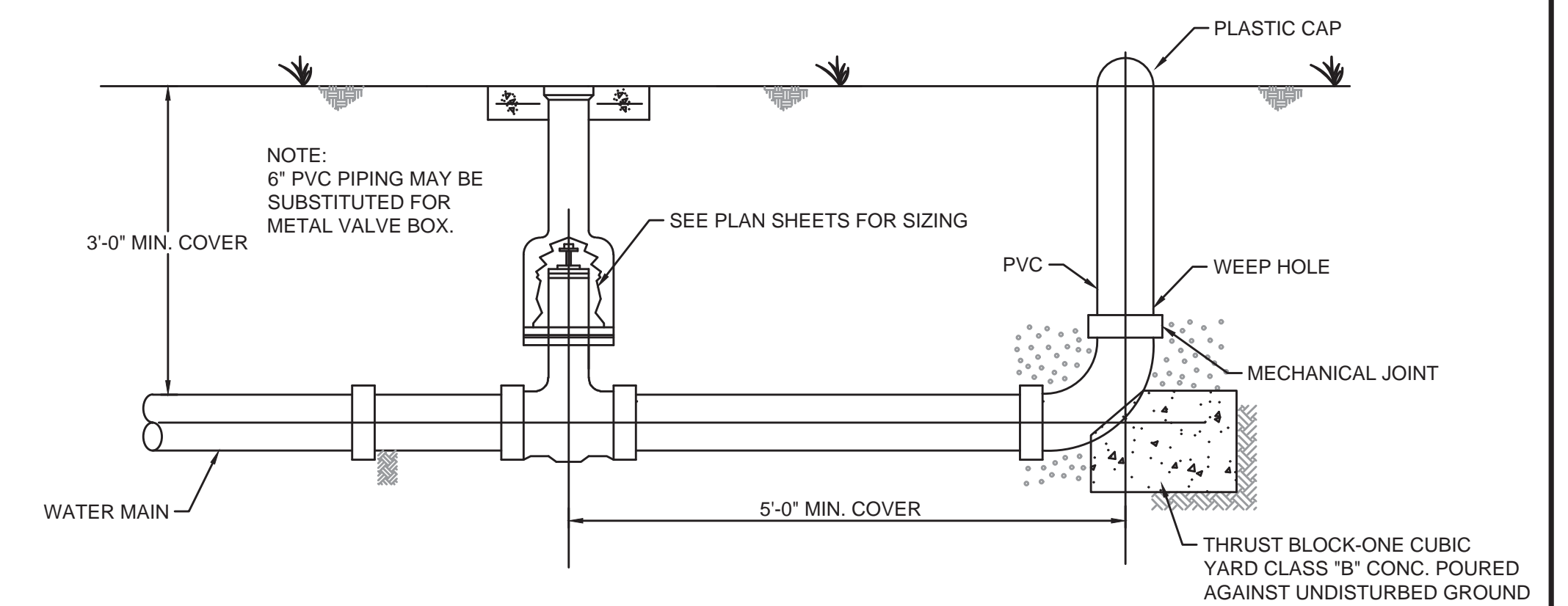
FLUSHING HYDRANT ASSEMBLY TYPE 1 & 2 - DETAIL

NOT TO SCALE



FLUSHING HYDRANT ASSEMBLY, TYPE 3 - DETAIL

NOT TO SCALE



E.O.L. 2", 3", OR 4" UNDERGROUND BLOWOFF ASSEMBLY

NOT TO SCALE

NO.	DATE	REVISIONS	BY

WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS

STANDARD DETAILS - WATER LINES

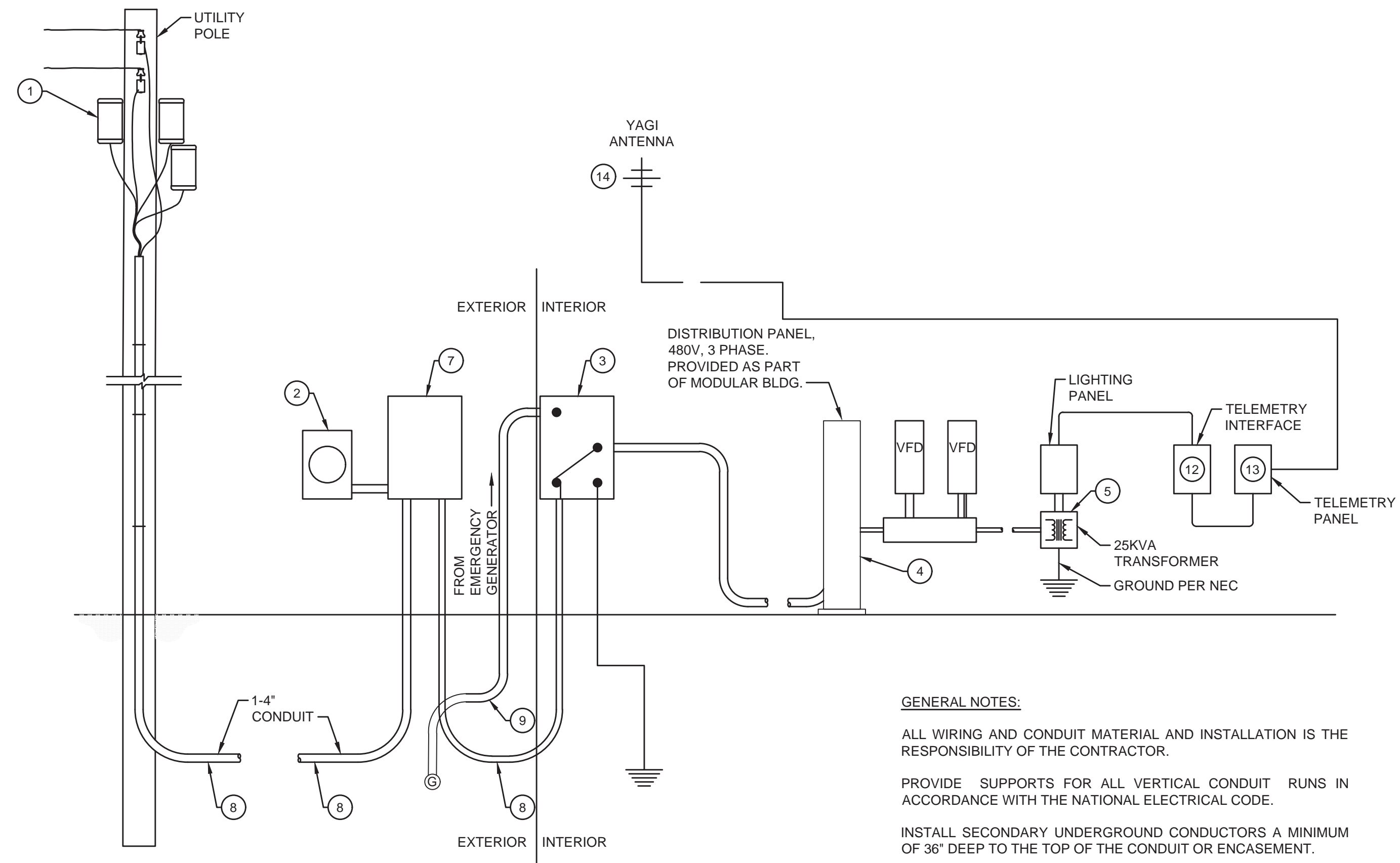
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CHEROKEE B. WILLOUGHBY
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10/20/2023
LICENSED PROFESSIONAL ENGINEER

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- CODED NOTES:**
- UTILITY TRANSFORMERS. PROVIDED AND INSTALLED BY UTILITY COMPANY AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANY FOR CONNECTION CONSTRUCTION REQUIREMENTS.
 - UTILITY METER. COORDINATE WITH THE UTILITY COMPANY FOR METERING REQUIREMENTS.
 - TRANSFER SWITCH. SERVICE ENTRANCE RATED. AUTOMATIC. PROVIDED AS PART OF THE BUILDING.
 - MAIN DISTRIBUTION TRAY. PROVIDED AS PART OF THE BUILDING. PANEL WILL INCLUDE BREAKERS AND SURGE PROTECTION.
 - STEP-DOWN TRANSFORMER.
 - LIGHTING PANEL. 120/240V SINGLE PHASE, PROVIDED AS PART OF THE BUILDING. PANEL WILL INCLUDE BREAKERS
 - CT CABINET, COORDINATE WITH UTILITY COMPANY.
 - 4 #250 MCM, 1/0 IN 4" CONDUIT.
 - 4 #250 MCM, 1/0 IN 4" CONDUIT.
 - NOT USED
 - NOT USED
 - TELEMETRY INTERFACE PANEL.
 - TELEMETRY PANEL 36"Hx36"Wx12"D
 - YAGI ANTENNA PLACED PER MANUFACTURERS RECOMMENDATION.

- GENERAL NOTES:**
- ALL WIRING AND CONDUIT MATERIAL AND INSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - PROVIDE SUPPORTS FOR ALL VERTICAL CONDUIT RUNS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
 - INSTALL SECONDARY UNDERGROUND CONDUCTORS A MINIMUM OF 36" DEEP TO THE TOP OF THE CONDUIT OR ENCASEMENT.
 - ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

SECONDARY CONDUIT DUCT BANK INSTALLATION DETAIL

NOT TO SCALE

ELECTRICAL REQUIREMENTS							
LOCATION	PUMPS	MAIN SERVICE	TRANSFER SWITCH	PRIMARY FEED	TRANSFORMER	DISCONNECT	TELEMETRY
MINERVA	15 HP	200 AMP 480V 3 PHASE 4 - WIRE	ATS - 200 AMP / 480V 3 PHASE 3 POLE	4" CONDUIT QUAD PLEX #250 MCM WIRE	DRY 25KVA - 200 AMP SINGLE PHASE	3-FUSED DISCONNECT 2-100 AMP PER DRIVE 1-60 TRANSFORMER	NONE

NO.	DATE	BY

WESTERN MASON WATER DISTRICT
WATER SYSTEM IMPROVEMENTS
ELECTRICAL DETAILS



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E-01