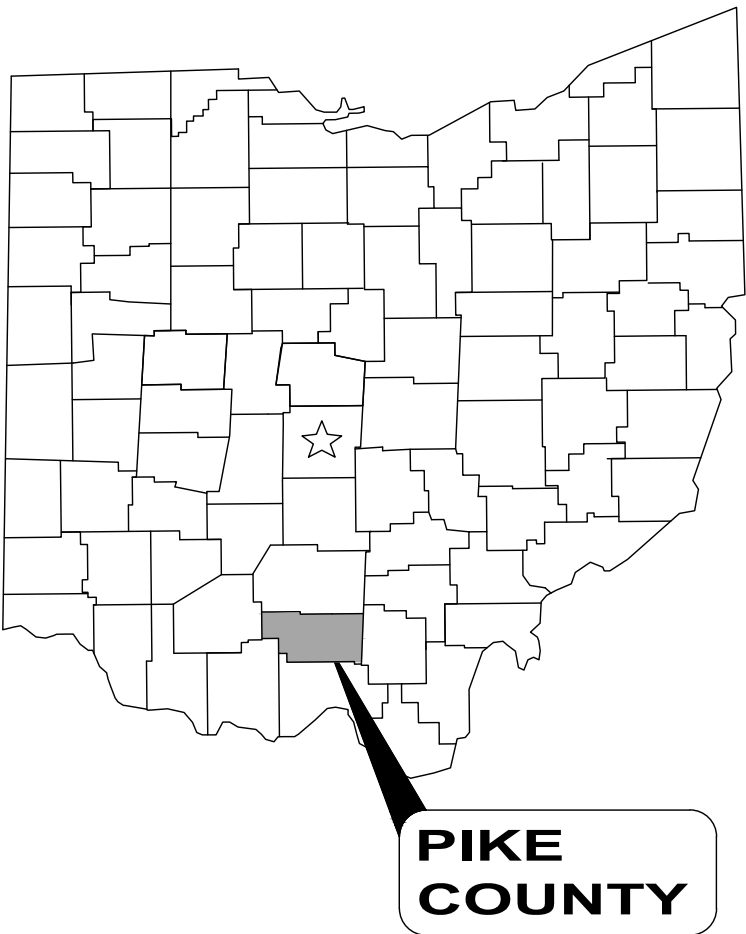


VILLAGE OF PIKETON

NEW PRODUCTION WELLS #5 & #6

PIKE COUNTY, OHIO

JULY 2025



ADMINISTRATION:

BILLY R. SPENCER	MAYOR
CHERYL KING	VILLAGE ADMINISTRATOR/FISCAL OFFICER
DALE SEIF	VILLAGE SOLICITOR

COUNCIL:

RALPH Y. DOUTHITT	MEMBER
CRISTY SHANKS	MEMBER
JENNIFER CHANDLER	MEMBER
VICTOR BRUSHART	MEMBER
DENNIS J. FOREMAN	MEMBER
RYAN CLEMMONS	MEMBER



LOCATION MAP
NOT TO SCALE

APPROVALS:

	7-1-25
BILLY R/SPENCER - MAYOR	DATE
	7-1-25
CHERYL KING - VILLAGE ADMINISTRATOR	DATE

OFFICE:

VILLAGE OF PIKETON
411 SOUTH WEST STREET
PIKETON, OH 45661

(740) 289-2581 PHONE

PROJECT SITE:

WATER TREATMENT PLANT
1150 PIKETON ROAD
PIKETON, OH 45661

(740) 5289-2581 PHONE

ENGINEER:

VERDANTAS
6397 EMERALD PARKWAY, SUITE 200
DUBLIN, OH 43016

(614) 793-8777 PHONE

KENT A. BRYAN



P.E. No. E-57734

DATE



- UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.
- THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.

ENGINEER'S PROJECT No. 211118

BID SET

verdantas

ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
BIDDING	7/1/2025	AS NOTED	KAB	AGD	KAB
NO	REVISION	DATE			

VILLAGE OF PIKETON NEW PRODUCTION WELLS #5 & #6	PIKETON, OHIO
PIKE COUNTY	GENERAL - 00 SERIES COVER SHEET

PROJECT NO.	211118
DISCIPLINE	GENERAL
SHEET NAME	00G-01
SHEET	OF
1	14

EXISTING PLAN LINE SYMBOLOGY:

	FENCE, GENERAL
	FENCE, BARBED WIRE
	FENCE, CHAIN LINK
	FENCE, DECORATIVE
	FENCE, ELECTRIC
	FENCE, VINYL
	FENCE, WOOD
	FENCE, WOVEN WIRE
	CABLE RAIL
	GUARDRAIL
	HANDRAIL
	TELEPHONE, ABANDONED
	TELEPHONE
	TELEPHONE, OH
	TELEPHONE, UG
	TELEPHONE, SERVICE
	TELEPHONE, SERVICE OH
	TELEPHONE, SERVICE, UG
	ELECTRIC, ABANDONED
	ELECTRIC, DUCT BANK
	ELECTRIC
	ELECTRIC, OH
	ELECTRIC, UG
	ELECTRIC, SERVICE
	ELECTRIC, SERVICE OH
	ELECTRIC, SERVICE, UG
	GAS, ABANDONED
	GAS
	GAS, SERVICE
	SANITARY, ABANDONED
	SANITARY FORCE MAIN
	SANITARY SEWER
	SANITARY LEACH LINE
	SANITARY SEWER, DOUBLE
	SANITARY SEWER, SERVICE
	STORM SEWER, ABANDONED
	STORM CULVERT
	STORM SEWER
	STORM SEWER, DOUBLE
	STORM, ROOF DRAIN
	STORM, UNDERDRAIN
	TELEPHONE, ABANDONED
	TELEPHONE
	TELEPHONE, OH
	TELEPHONE, UG
	TELEPHONE, SERVICE
	TELEPHONE, SERVICE OH
	TELEPHONE, SERVICE, UG
	WATER LINE, ABANDONED
	WATER LINE
	WATER LINE, DOUBLE
	WATER LINE, SERVICE
	NON-POTABLE WATER LINE
	ALUM SOLUTION LINE
	CHLORINE SOLUTION LINE
	SULFUR DIOXIDE SOLUTION LINE
	BRUSH LINE
	BUSH LINE
	TREE LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	TOP OF BANK
	TOP OF DITCH
	BOTTOM OF DITCH
	WATER EDGE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	RIGHT-OF-WAY CL
	SURVEY STATIONING
	PAVED ROADWAY
	GRAVEL DRIVEWAY
	CURB FACE
	CURB BACK

EXISTING PLAN SYMBOLOGY:

	SANITARY MANHOLE
	SANITARY CLEANOUT
	SANITARY LINE CAP
	SANITARY LINE PAINT MARKING
	SANITARY STRUCTURE NUMBER
	SANITARY VENT PIPE
	STORM MANHOLE (SOLID LID)
	STORM MANHOLE (OPEN GRATE)
	CURB INLET
	CURB INLET (DOUBLE)
	CATCH BASIN
	CATCH BASIN (ROUND LID)
	CATCH BASIN (DOME)
	CATCH BASIN (SIDE INLET)
	DRAIN
	DOWNSPOUT
	STORM CLEANOUT
	STORM LINE CAP
	STORM ENDWALL
	STORM HEADWALL
	STORM LINE PAINT MARKING
	STORM STRUCTURE NUMBER
	ROCK CHANNEL PROTECTION
	SURFACE DRAINAGE FLOW
	STORM FLOOD ROUTING ARROW
	FIRE HYDRANT
	WATER SIAMESE CONNECTION
	WATER VALVE
	WATER VALVE BOX
	WATER METER
	WATER METER PIT
	WATER LINE REDUCER
	WATER LINE CAP
	WATER LINE PLUG
	WATER LINE PAINT MARKING
	POST INDICATOR VALVE
	WATER MANHOLE
	WATER FLUSHING ASSEMBLY
	WATER FIXTURE
	WATER FITTING (TEE)
	WATER FITTING (CROSS)
	WATER FITTING (45° WYE)
	WATER FITTING (11.25°)
	WATER FITTING (22.50°)
	WATER FITTING (45°)
	WATER FITTING (90°)
	IRRIGATION SPRINKLER HEAD
	IRRIGATION CONTROL BOX
	IRRIGATION BOX
	STEAM MANHOLE
	STEAM VENT
	COMBINED SEWER MANHOLE
	GAS LIGHT POST (YARD)
	GAS MANHOLE
	GAS VALVE
	GAS VALVE BOX
	GAS METER
	GAS REGULATOR
	GAS VENT PIPE
	GAS LINE PAINT MARKING
	GAS LINE FIXTURE
	ELECTRIC LIGHT POST (YARD)
	ELECTRIC MANHOLE
	ELECTRIC PULL BOX
	ELECTRIC CONTROL BOX
	ELECTRIC JUNCTION BOX
	ELECTRIC VAULT BOX
	ELECTRIC METER
	ELECTRIC PEDESTAL

	ELECTRIC RISER BOX
	ELECTRIC TRANSFORMER
	ELECTRIC HVAC UNIT
	ELECTRIC GROUND LIGHT
	ELECTRIC LINE PAINT MARKING
	CABLE TV MANHOLE
	CABLE TV PEDESTAL
	CABLE TV PAINT MARKING
	TELEPHONE MANHOLE
	TELEPHONE PULL BOX
	TELEPHONE PEDESTAL
	TELEPHONE RISER BOX
	TELEPHONE LINE PAINT MARKING
	TELEPHONE PAY PHONE
	FIBER OPTIC CABLE MANHOLE
	FIBER OPTIC CABLE PAINT MARKING
	TRAFFIC CONTROL MANHOLE
	TRAFFIC CONTROL BOX
	TRAFFIC CONTROL PAINT MARKING
	TRAFFIC PULL BOX
	TRAFFIC SIGNAL PEDESTAL
	UNKNOWN, PULL BOX
	UNKNOWN, CLEANOUT
	UNKNOWN, MANHOLE
	UNKNOWN, VALVE
	MONITORING WELL
	TEST WELL
	WATER WELL
	SOIL BORING
	SWAMP
	POLE, ELECTRIC
	POLE, TELEPHONE
	POLE, LIGHT
	POLE, LIGHT, DECORATIVE
	POLE, LIGHT-OVERHEAD
	POLE, CABLE TV
	POLE, UTILITY
	POLE, GENERAL
	POLE, TRAFFIC CONTROL
	POLE, GUY
	POLE, BRACE
	POLE, ELECTRIC/TELEPHONE
	POLE, ELECTRIC W/ LIGHT
	POLE, ELECTRIC/CABLE TV
	POLE, ELECTRIC/TELEPHONE/ LIGHT
	POLE, ELECTRIC/TELEPHONE/CABLE TV
	POLE, ELEC./TELE./LIGHT/CABLE TV
	POLE, TELEPHONE/ LIGHT
	POLE, TELEPHONE/CABLE TV
	POLE, TELEPHONE/ LIGHT/CABLE TV
	POLE, CABLE TV W/ LIGHT
	POLE, GUY WIRE
	SIGN
	SIGN, DOUBLE SIDED
	SIGN, DUAL POST
	SIGN, RAILROAD
	POST
	BOLLARD
	DELINEATOR POST
	PARKING BUMPER BLOCK
	HANDICAP PARKING SYMBOL
	HANDICAP PARKING SYMBOL
	HANDICAP DETECTABLE WARNING
	MAILBOX

	PAPER BOX
	PARKING METER
	GRAVE HEADSTONE
	EX. BARBEQUE GRILL
	FUEL PUMP
	FLAG POLE
	RAISED PAVEMENT MARKER
	GUARDRAIL, CENTER POST
	GUARDRAIL, TERMINAL POST
	GUARDRAIL, BOTTOM POST
	GUARDRAIL, TOP POST
	FENCE POST
	PICNIC TABLE
	BENCH
	DECIDUOUS TREE
	EVERGREEN TREE
	STUMP
	BUSH
	IRON PIN FOUND
	SOLID IRON PIN FOUND
	IRON PIPE FOUND
	DRILL HOLE FOUND
	CHISELED "X" FOUND
	MONUMENT BOX FOUND
	MONUMENT CONCRETE FOUND
	MONUMENT RIGHT-OF-WAY FOUND
	PK NAIL FOUND
	MAG NAIL FOUND
	SPIKE FOUND
	HUB FOUND
	AXLE FOUND
	WOOD POST FOUND
	CORNER STONE FOUND
	AERIAL TARGET FOUND
	GPS CONTROL FOUND
	BENCHMARK FOUND

GENERAL SYMBOLOGY NOTES:

- THIS IS A STANDARD SHEET SHOWING COMMONLY USED SYMBOLOGY.
- ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE NEW IMPROVEMENTS SO AS TO HIGHLIGHT SPECIFIC TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- SYMBOLOGY OR DIAGRAMMATICAL LEGENDS MAY BE SHOWN ON INDIVIDUAL SHEETS FOR SCHEDULES, DIAGRAMS, DETAILS, SCHEMATICS OR EQUIPMENT.

NEW SITE PLAN LINE SYMBOLOGY:

	WATER SERVICE LINE (POTABLE)
	NON-POTABLE WATER LINE
	GAS SERVICE LINE
	STORM SEWER LINE
	GRAVITY SANITARY SEWER LINE
	SANITARY SEWER FORCE MAIN LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	STATIONING
	CONSTRUCTION FENCE
	SILT FENCE
	FILTER FENCE
	FILTER SOCK

NEW PLAN HATCHING:

	NEW SIDEWALK
	NEW PAVEMENT AREA

DEMOLITION:

	UTILITY LINE OR OBJECT TO BE REMOVED OR ABANDONED AS SHOWN ON THE DRAWINGS
	TREE REMOVAL

NEW SITE SYMBOLOGY:

	SANITARY MANHOLE
	SANITARY MANHOLE, ADJUST
	SANITARY CLEANOUT
	SANITARY LINE CAP
	SANITARY STRUCTURE NUMBER
	SANITARY VENT PIPE
	STORM MANHOLE (SOLID GRATE)
	STORM MANHOLE (OPEN GRATE)
	STORM MANHOLE, ADJUST
	CURB INLET
	CURB INLET (DOUBLE)
	CURB INLET, ADJUST
	CURB INLET (DOUBLE), ADJUST
	CATCH BASIN
	CATCH BASIN (SOLID)
	CATCH BASIN, ADJUST
	CATCH BASIN (SIDE INLET)
	DRAIN
	DOWNSPOUT
	STORM CLEANOUT
	STORM LINE CAP
	STORM HEADWALL
	STORM STRUCTURE NUMBER
	ROCK CHANNEL PROTECTION
	SURFACE DRAINAGE FLOW
	SURFACE DRAINAGE FLOW
	STORM FLOOD ROUTING ARROW
	FIRE HYDRANT
	FIRE HYDRANT, ADJUST
	WATER SIAMESE CONNECTION
	WATER VALVE
	WATER VALVE BOX
	WATER METER
	WATER LINE REDUCER
	WATER LINE CAP
	WATER LINE PLUG
	POST INDICATOR VALVE
	WATER MANHOLE
	WATER CORPORATION STOP
	WATER FLUSHING ASSEMBLY
	WATER METER

BID SET

verdantas

DATE	REVISION	NO	BIDDING	ISSUED FOR:
			7/11/2025	ISSUE DATE:
			AS NOTED	SCALE:
			KAB	DESIGNED BY:
			AGD	DRAWN BY:
			KAB	CHECKED BY:

VILLAGE OF PIKETON
NEW PRODUCTION WELLS #5 & #6

PIKE COUNTY
PIKETON, OHIO

CIVIL - 01 SERIES

CIVIL SITE LEGEND & SYMBOLOGY

PROJECT NO.

211118

DISCIPLINE

CIVIL

SHEET NAME

01C-01

SHEET

3

OF

14



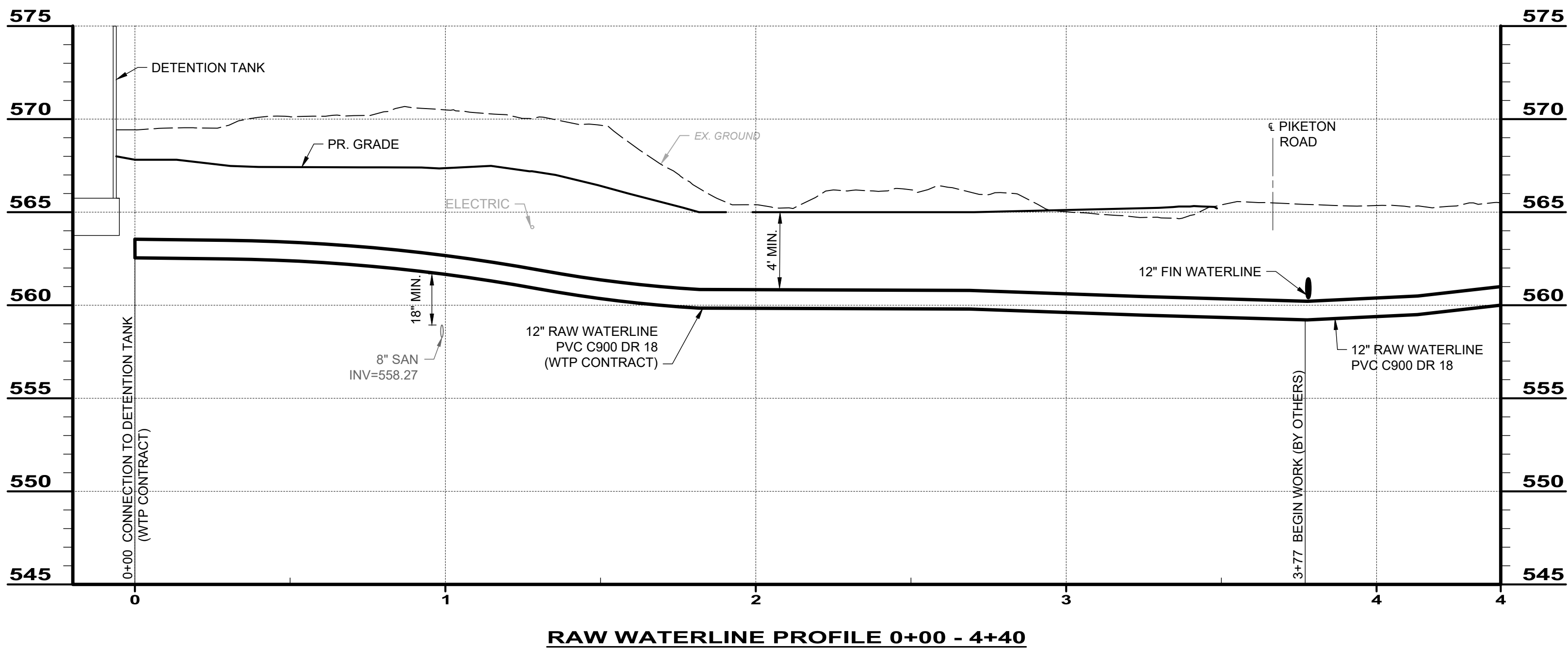
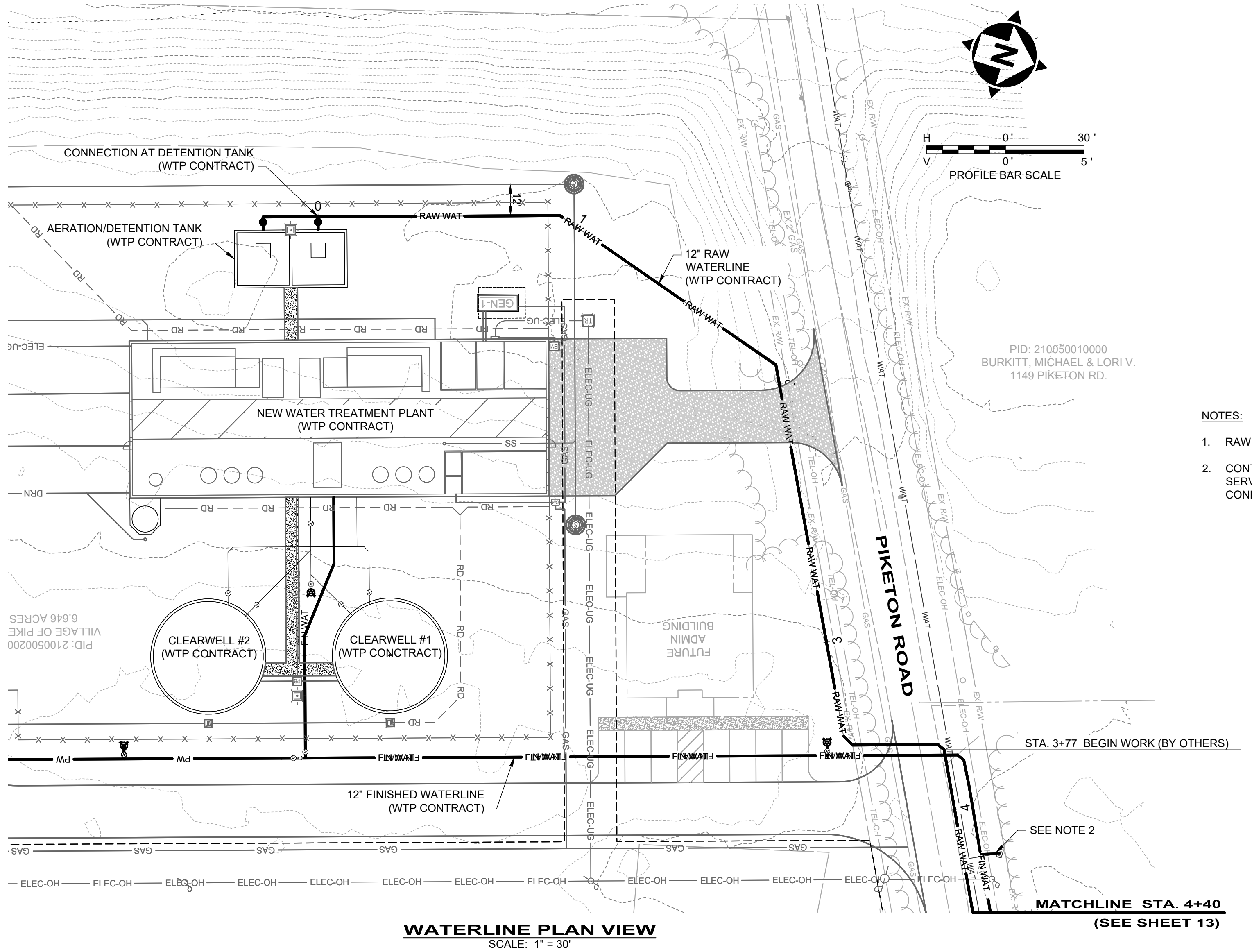
BID SET

verdantas

ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	7/1/2025			
SCALE:	AS NOTED			
DESIGNED BY:	KAB			
DRAWN BY:	AGD			
CHECKED BY:	KAB			

VILLAGE OF PIKETON NEW PRODUCTION WELLS #5 & #6	PIKETON, OHIO
PIKE COUNTY	CIVIL - 01 SERIES
	AREA PLAN

PROJECT NO.	211118
DISCIPLINE	CIVIL
SHEET NAME	01C-02
SHEET	4
OF	14



BID SET

verdantas

ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	7/1/2025			
SCALE:	AS NOTED			
DESIGNED BY:	AGD			
DRAWN BY:	AGD			
CHECKED BY:	KAB			

VILLAGE OF PIKETON
NEW PRODUCTION WELLS #5 & #6

PIKETON, OHIO

PIKE COUNTY

CIVIL - 01 SERIES

RAW WATERLINE PLAN & PROFILE - 1

PROJECT NO. 211118	
DISCIPLINE CIVIL	
SHEET NAME 01C-03	
SHEET 5	OF 14

verdantas

VILLAGE OF PIKETON
NEW PRODUCTION WELLS #5 & #6

PIKE COUNTY CIVIL - 01 SERIES PIKETON, OHIO

RAW WATERLINE PLAN & PROFILE - 2

C:\CTICAD\DRIVES\H2021211118\DWG\SHEETS\ NEW WELLS 5 & 6/C 211118 - WATERLINE PLAN & PROFILES.DWG - 01C-07 - 7/9/2025 12:21:40 PM - ADAM DAWSON

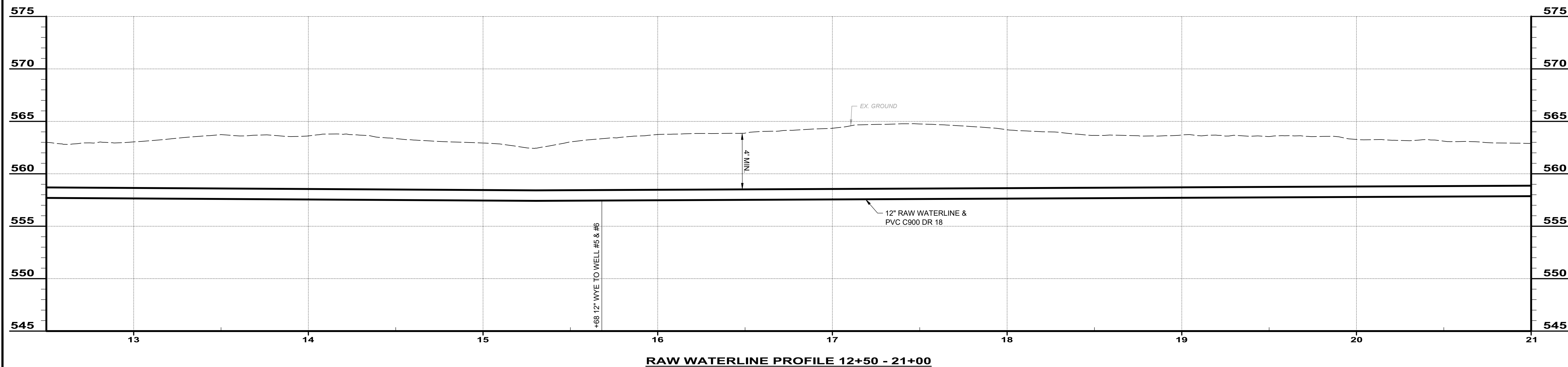
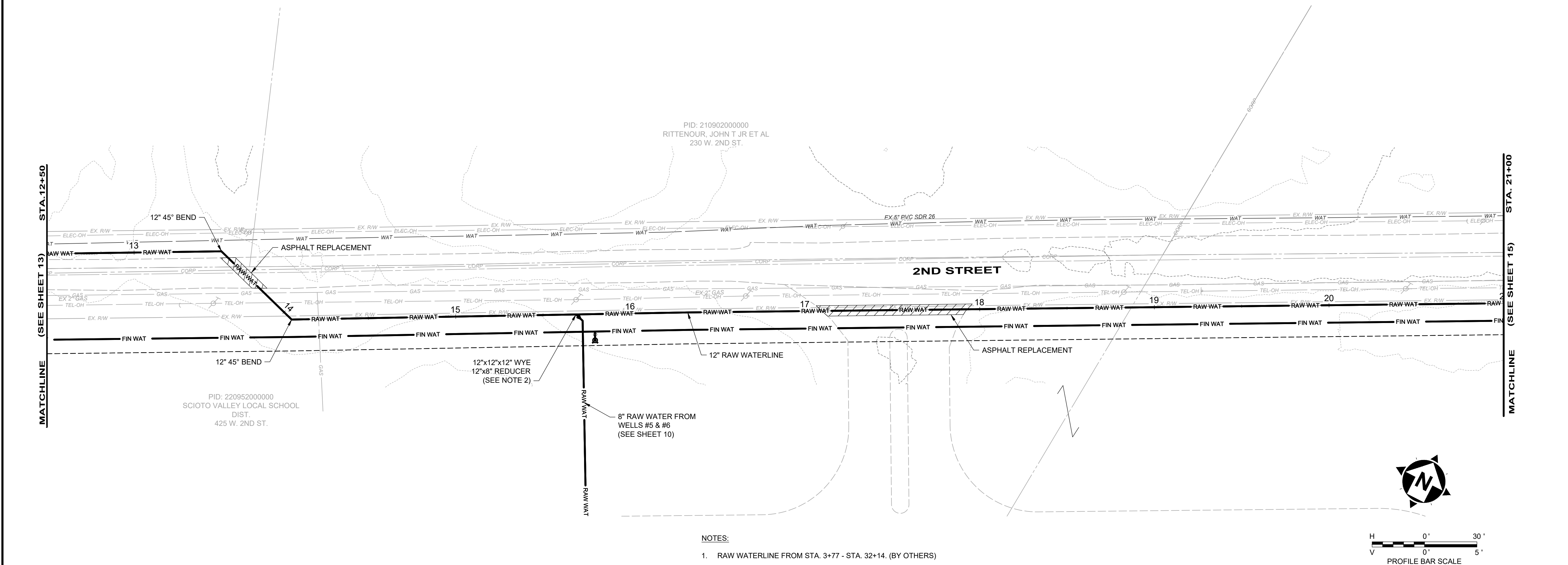
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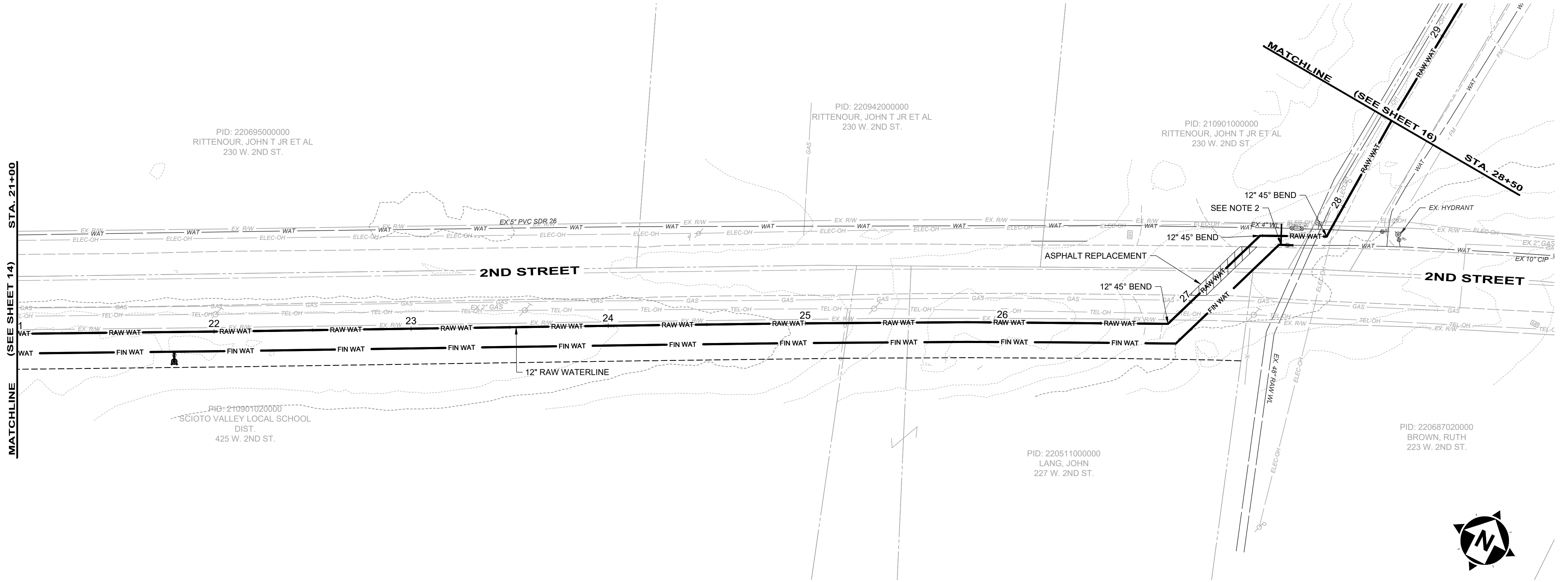


ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	7/1/2025			
SCALE:	AS NOTED			
DESIGNED BY:	AGD			
DRAWN BY:	AGD			
CHECKED BY:	KAB			

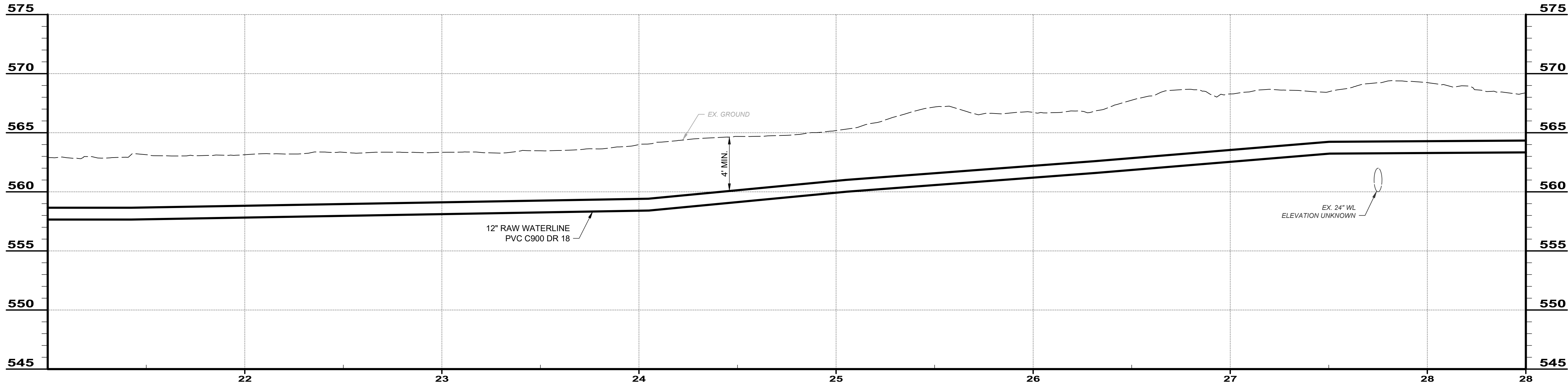
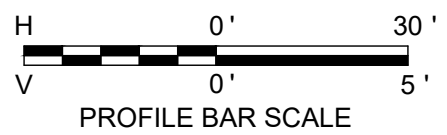
VILLAGE OF PIKETON	PIKE COUNTY	PIKETON, OHIO
NEW PRODUCTION WELLS #5 & #6	CIVIL - 01 SERIES	RAW WATERLINE PLAN & PROFILE - 3

PROJECT NO.	
211118	
DISCIPLINE	
CIVIL	
SHEET NAME	
01C-05	
SHEET	OF
7	14





- NOTES:
1. RAW WATERLINE FROM STA. 3+77 - STA. 32+14. (BY OTHERS)
 2. CONTRACTOR SHALL FIELD LOCATE THE EXISTING WATER SERVICE CONNECTION AND INSTALL NEW 2" WATER SERVICE CONNECTION AT THE LOCATION OF THE EXISTING. (BY OTHERS)



RAW WATERLINE PROFILE 21+00 - 28+30

BID SET



ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUED FOR:	7/1/2025			
ISSUE DATE:	AS NOTED			
SCALE:	AGD			
DESIGNED BY:	AGD			
DRAWN BY:	KAS			
CHECKED BY:				

VILLAGE OF PIKETON
NEW PRODUCTION WELLS #5 & #6

PIKE COUNTY
CIVIL - 01 SERIES
PIKETON, OHIO
RAW WATERLINE PLAN & PROFILE - 4

PROJECT NO.	
211118	
DISCIPLINE	
CIVIL	
SHEET NAME	
01C-06	
SHEET	OF
8	14

BID SET

verdantas

ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	7/1/2025			
SCALE:	AS NOTED			
DESIGNED BY:	AGD			
DRAWN BY:	AGD			
CHECKED BY:	KAB			

VILLAGE OF PIKETON
NEW PRODUCTION WELLS #5 & #6

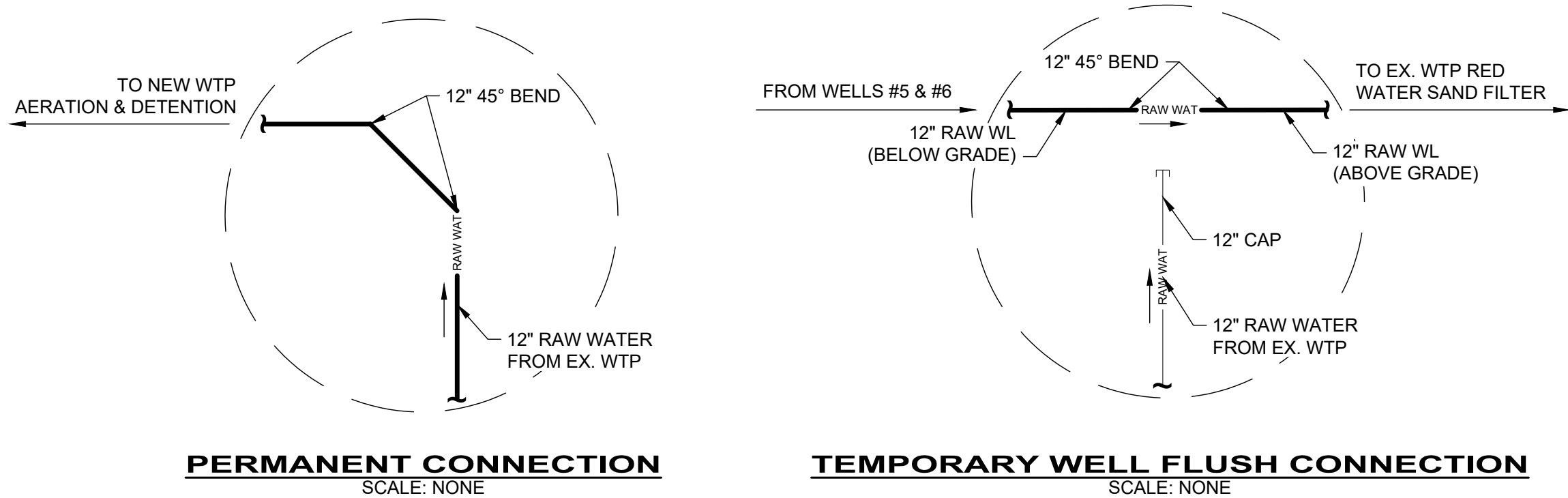
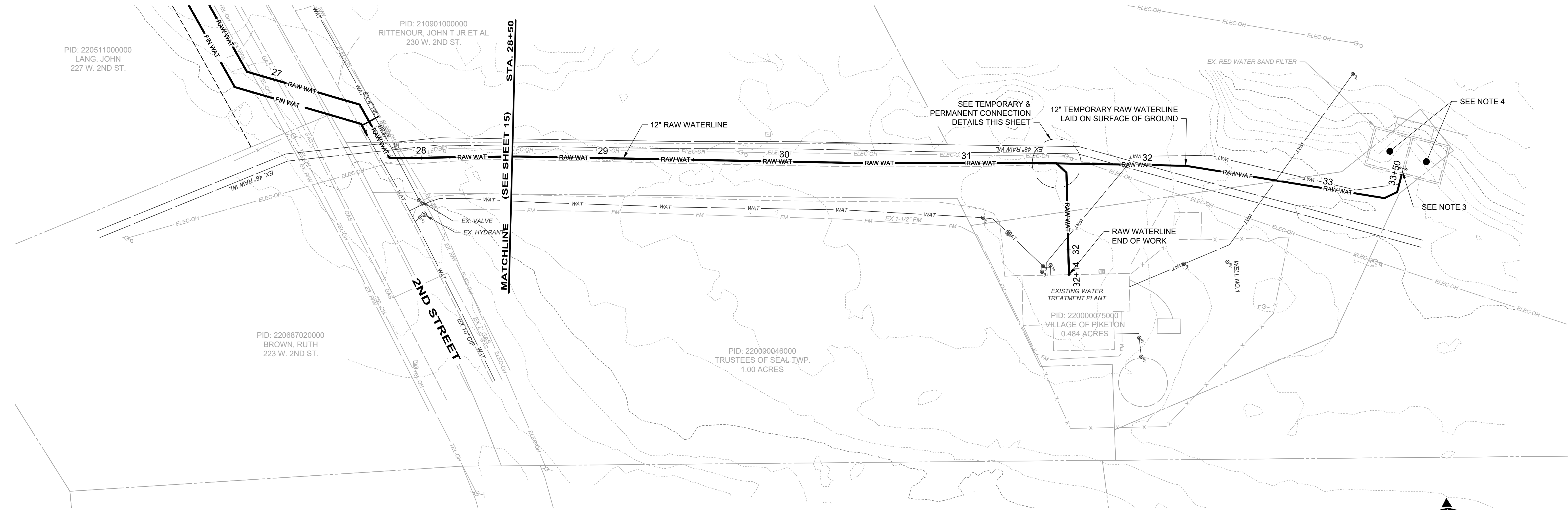
PIKETON, OHIO

PIKE COUNTY

CIVIL - 01 SERIES

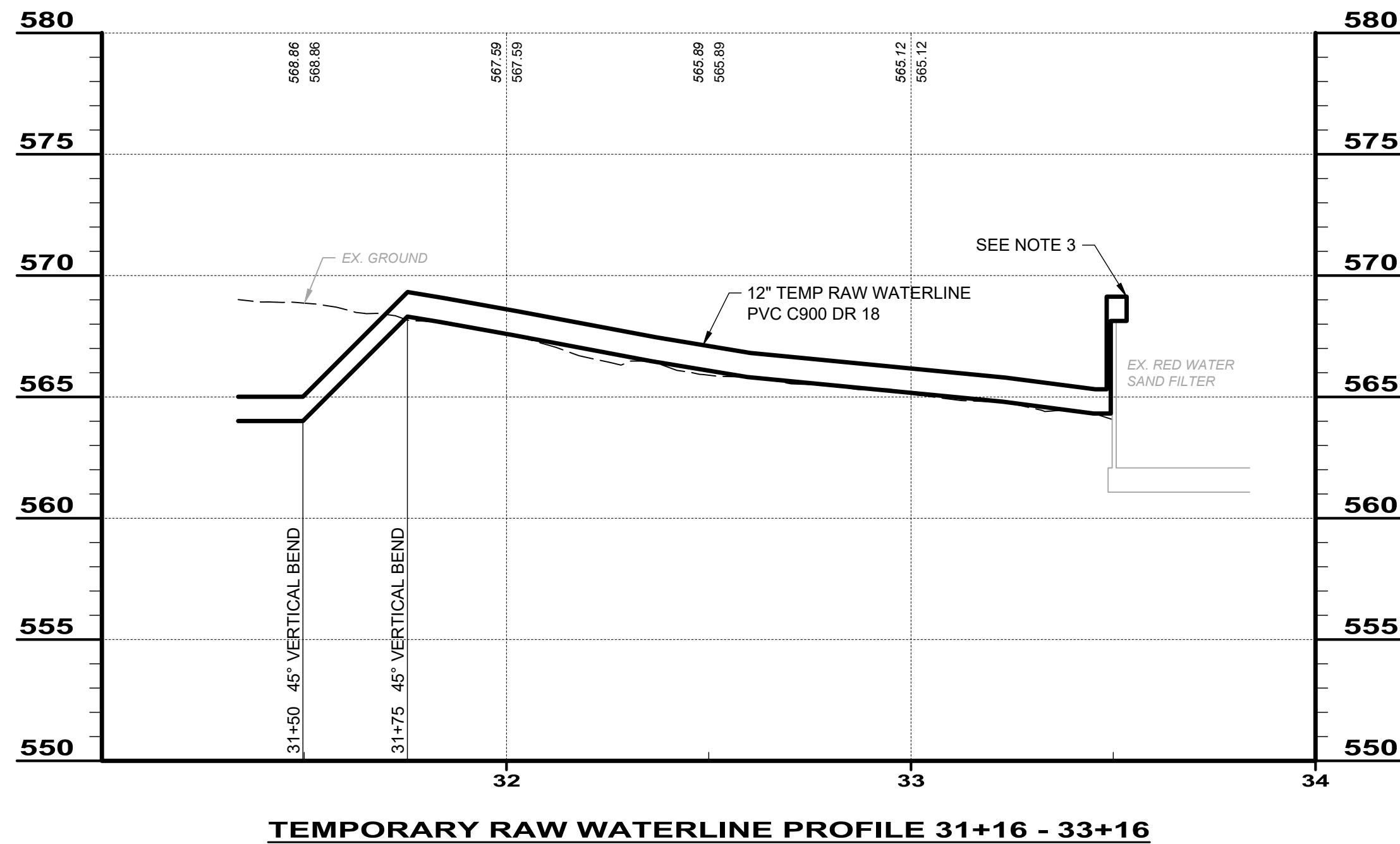
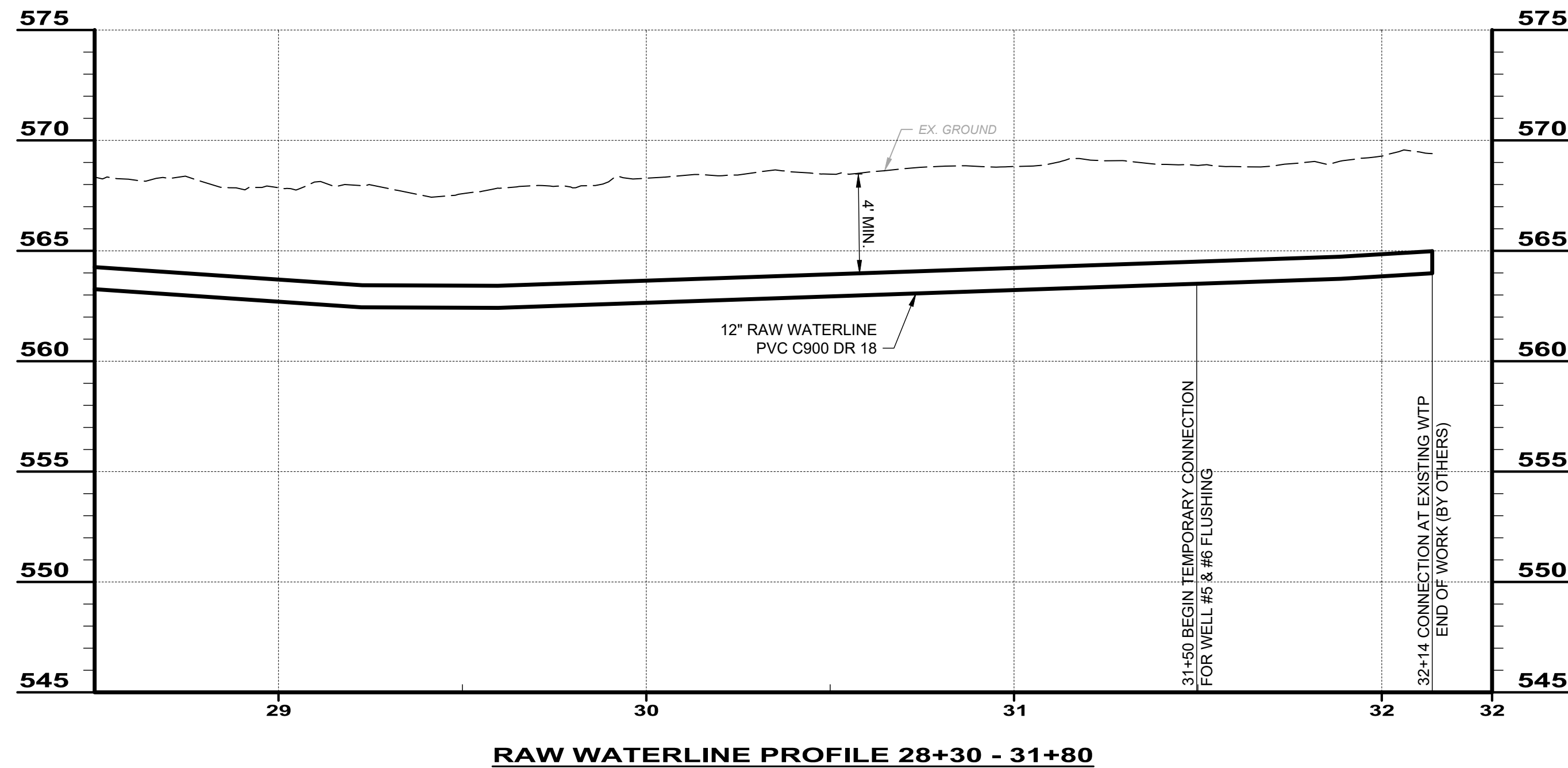
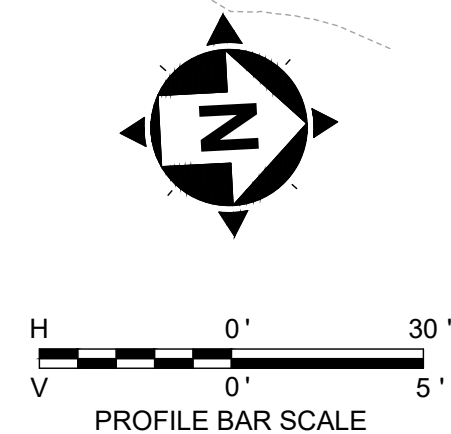
RAW WATERLINE PLAN & PROFILE - 5

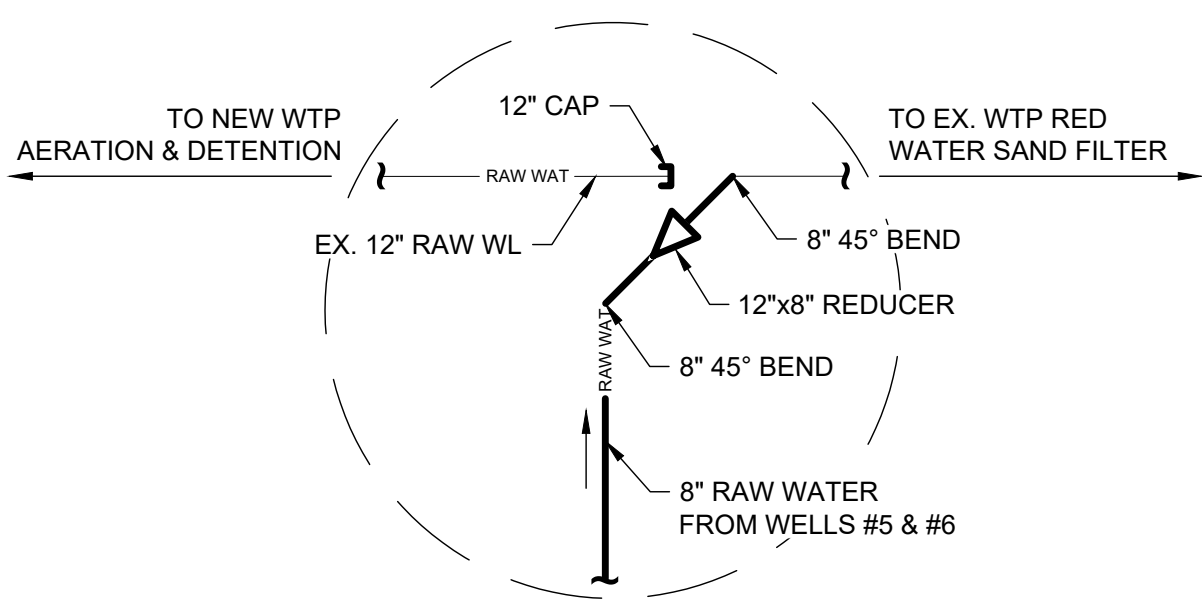
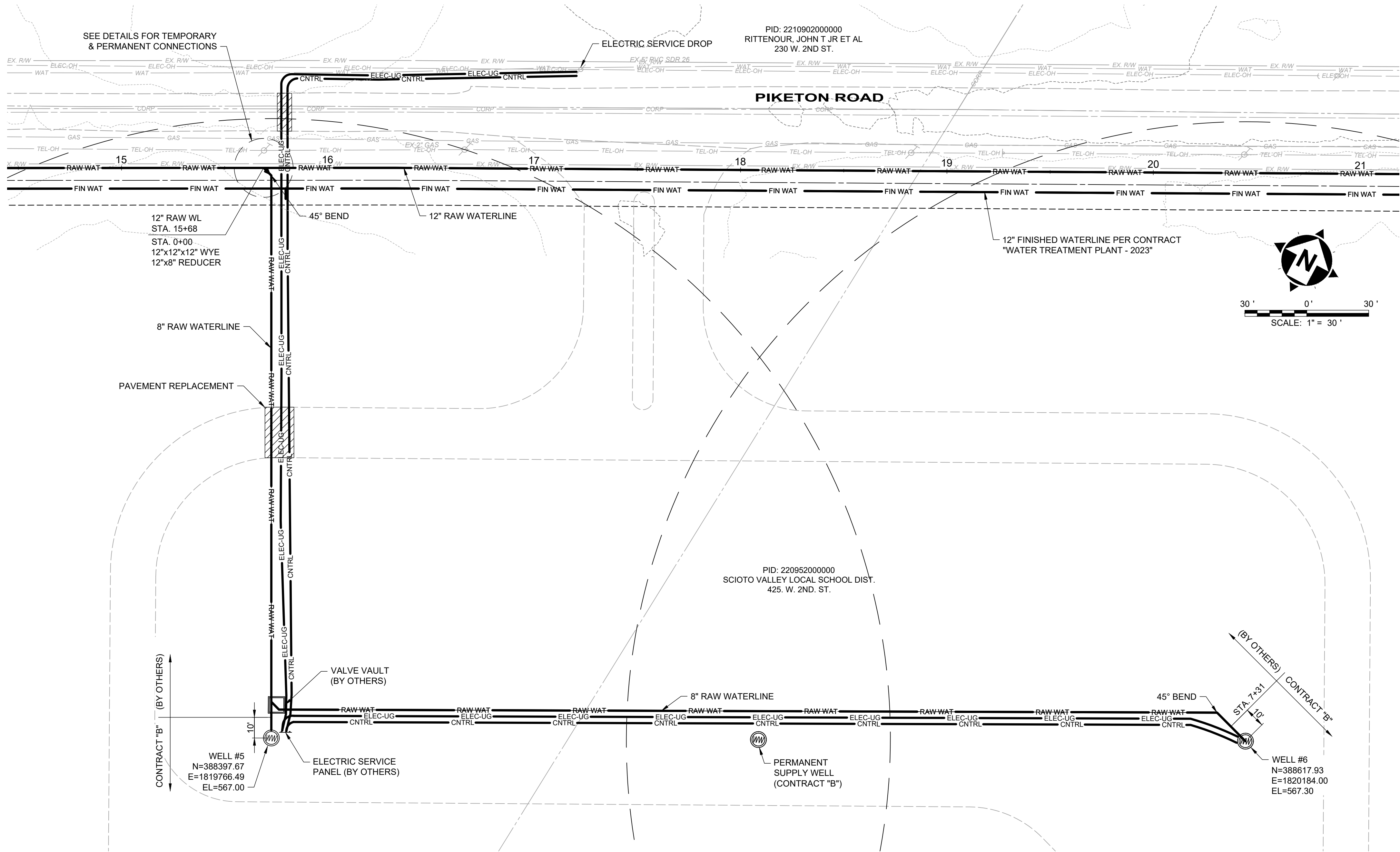
PROJECT NO.	211118
DISCIPLINE	CIVIL
SHEET NAME	01C-07
SHEET	9
OF	14



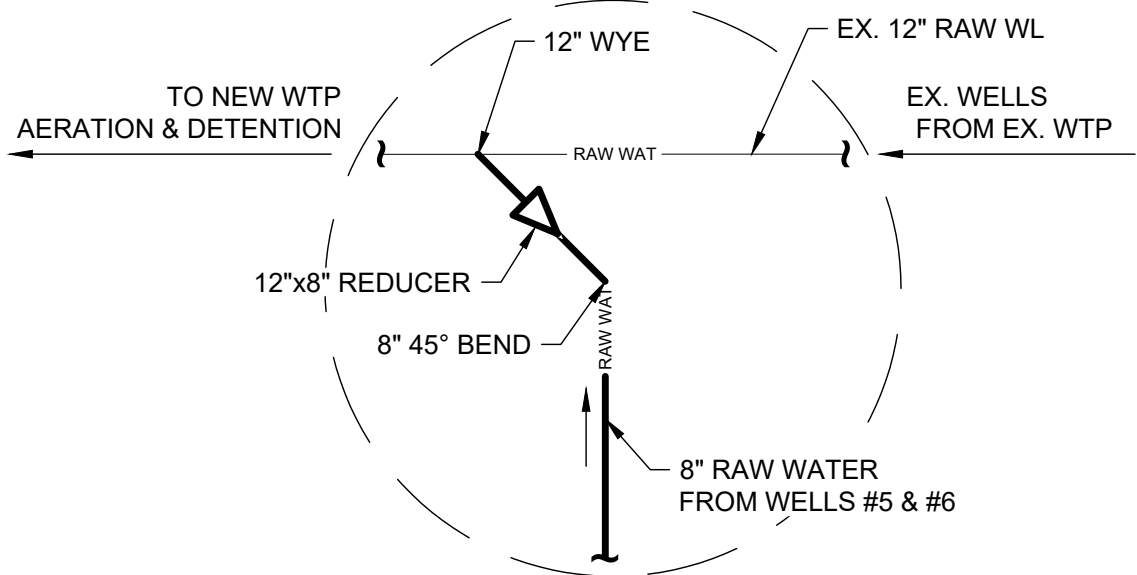
NOTES:

1. RAW WATERLINE FROM STA. 3+77 - STA. 32+14. (BY OTHERS)
2. TEMP RAW WATERLINE FROM STA. 31+50 - STA. 33+50. (BY OTHERS)
3. CONTRACTOR TO SUPPLY NECESSARY FITTINGS AND SUPPORTS TO DIVERT FLOW INTO EACH FILTER BAY. (BY OTHERS)
4. EXISTING RED WATER SAND FILTERS SHALL BE CLEANED OF ALL IRON BACKWASH MATERIAL (APPROX. 5' DEEP EACH TANK) AND STOCK PILED ON SITE IN DESIGNATED AREA BY OWNER PRIOR TO FLUSHING OF WELLS #5 & #6. (BY OTHERS)





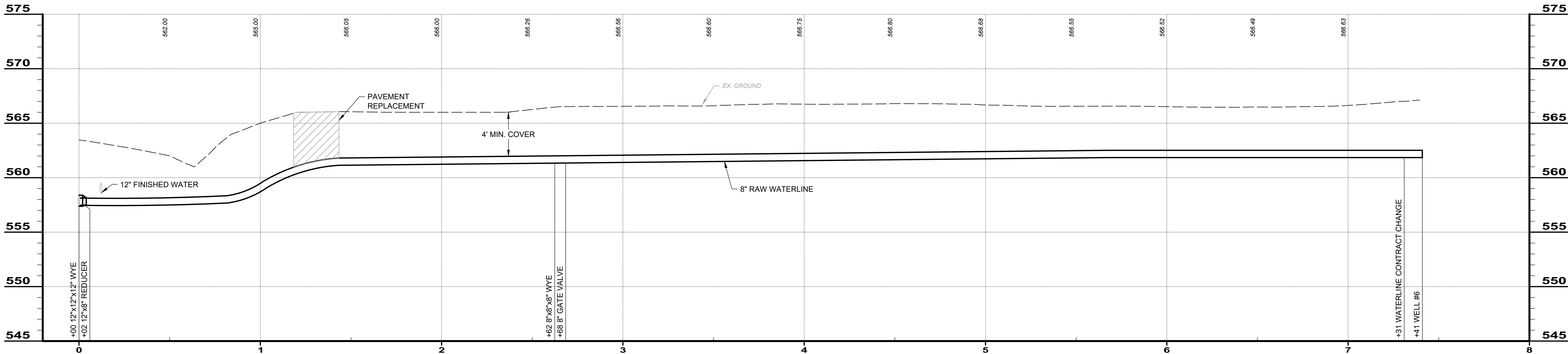
TEMPORARY WELL FLUSH CONNECTION
SCALE: NONE



PERMANENT WELL CONNECTION
SCALE: NONE

NOTES:

1. RAW WATERLINE FROM STA. 0+00 - STA. 7+31. (BY OTHERS)
2. CONTRACT "B" - WELLS (BY WELL CONTRACTOR).
3. TEMPORARY ACCESS DRIVES NOT SHOWN AND TO BE PROVIDED BY WELL CONTRACTOR FOR EACH WELL LOCATION. WELL CONTRACTOR TO RESTORE SITE TO ITS ORIGINAL CONDITION UPON COMPLETION OF WELLS.



BID SET

verdantas

ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	7/1/2025			
SCALE:	AS NOTED			
DESIGNED BY:	KAB			
DRAWN BY:	AGD			
CHECKED BY:	KAB			

VILLAGE OF PIKETON
NEW PRODUCTION WELLS #5 & #6

PIKE COUNTY
CIVIL - 01 SERIES
PIKETON, OHIO
WELLFIELD SITE PLAN

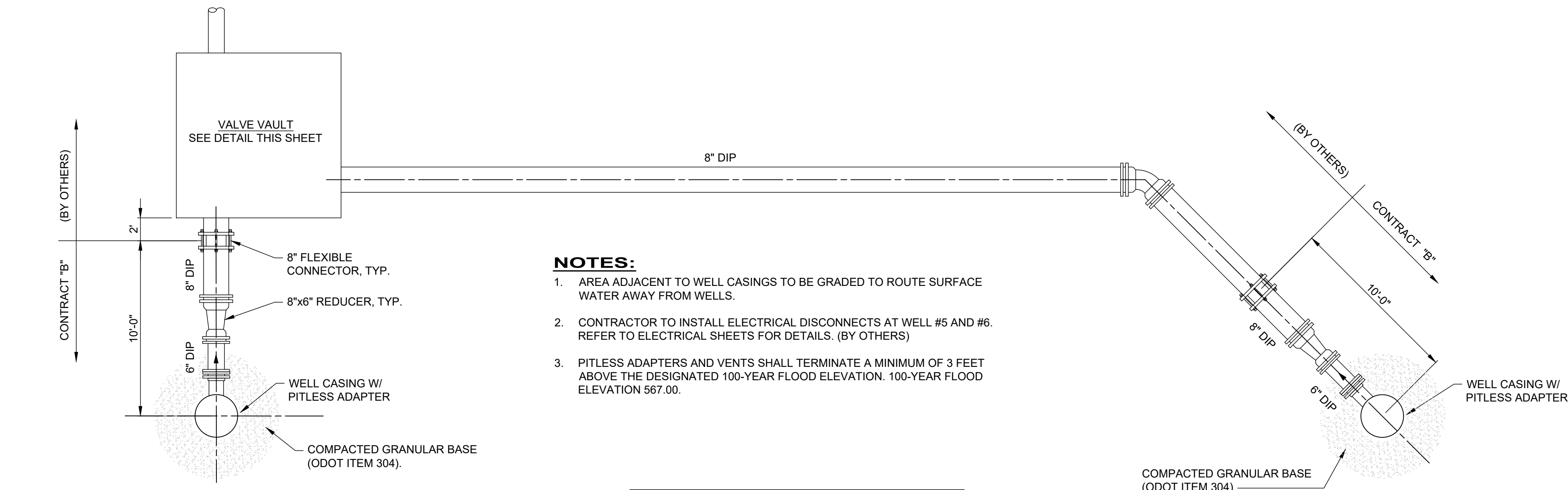
PROJECT NO.	211118
DISCIPLINE	CIVIL
SHEET NAME	01C-08
SHEET	10
OF	14

DATE	
REVISION	
NO	
BIDDING	
ISSUED FOR:	
ISSUE DATE:	7/1/2025
SCALE:	AS NOTED
DESIGNED BY:	KAB
DRAWN BY:	AGD
CHECKED BY:	KAB

VILLAGE OF PIKETON
NEW PRODUCTION WELLS #5 & #6

PIKE COUNTY	PIKETON, OHIO
CIVIL - 01 SERIES	WELL DETAILS

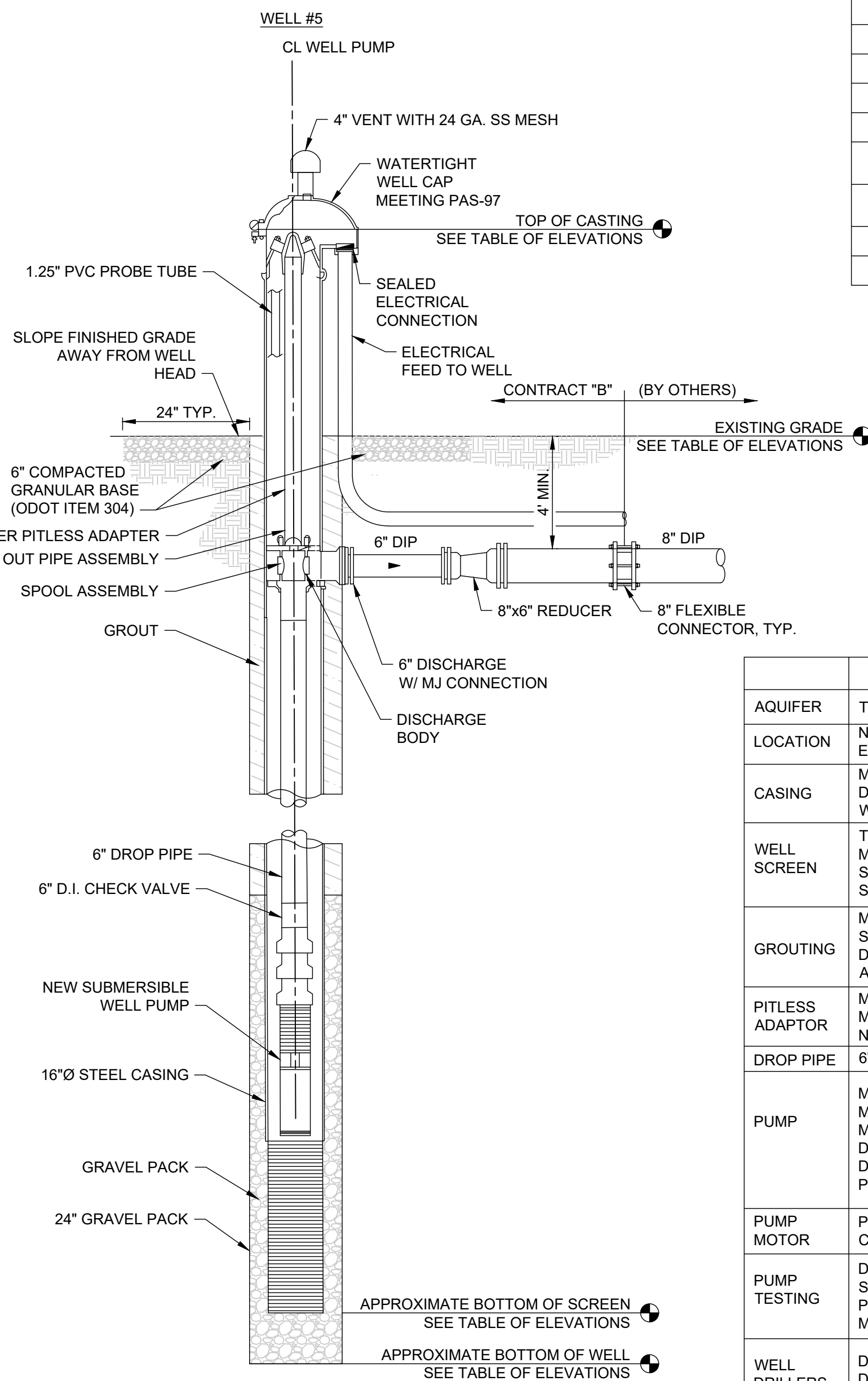
PROJECT NO.	211118
DISCIPLINE	CIVIL
SHEET NAME	01C-09
SHEET	11
OF	14



NOTES:

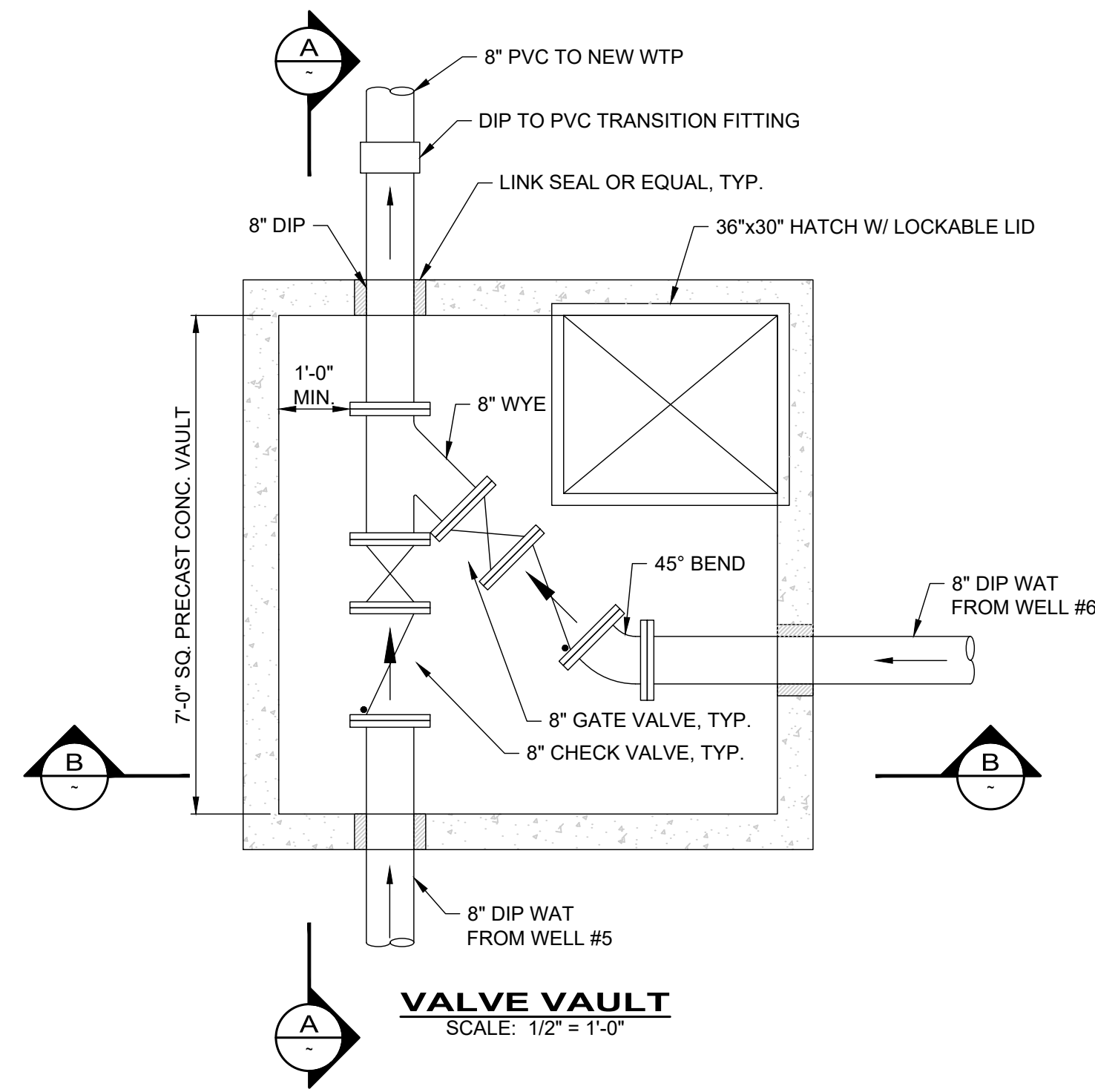
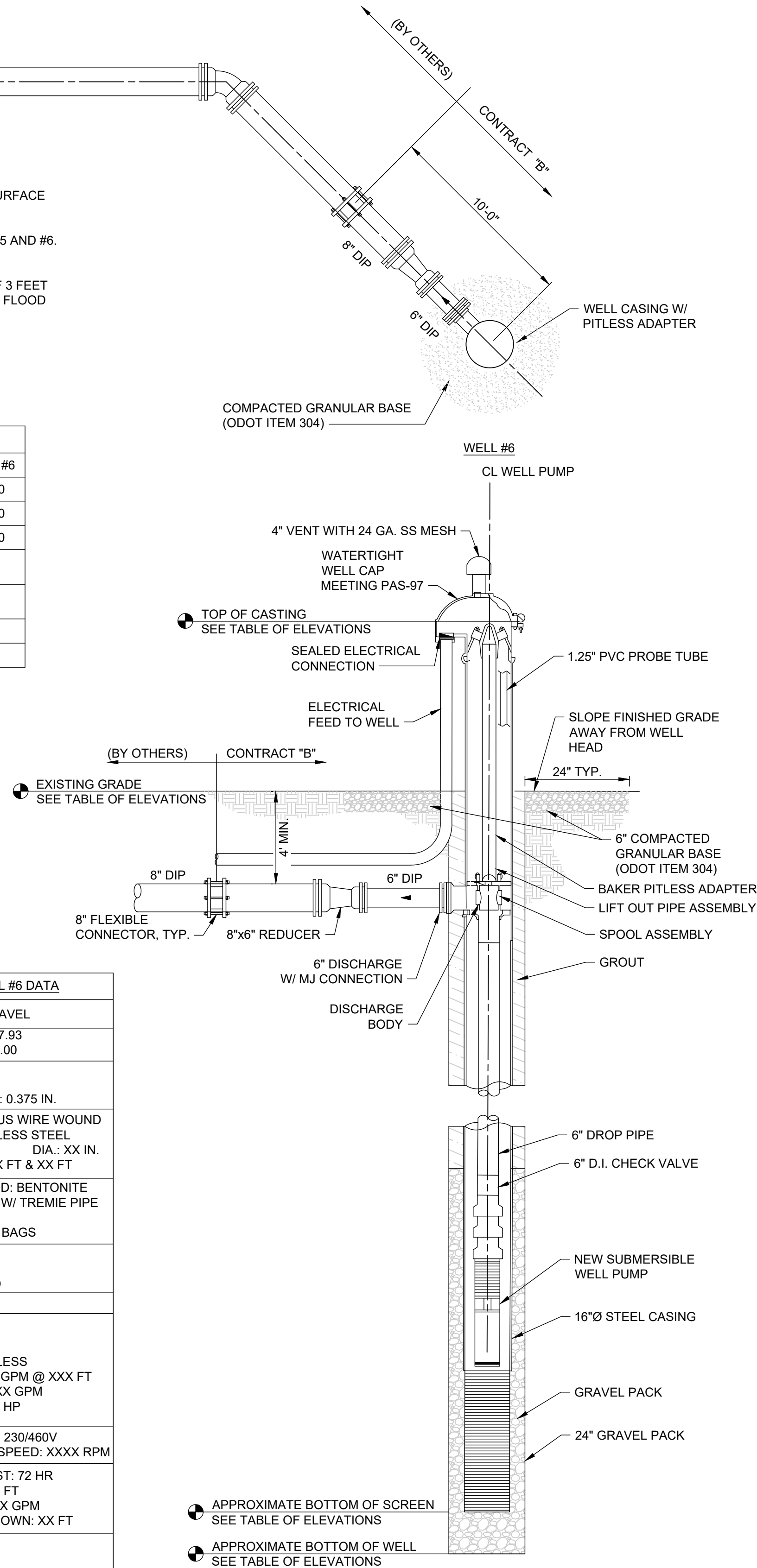
1. AREA ADJACENT TO WELL CASINGS TO BE GRADED TO ROUTE SURFACE WATER AWAY FROM WELLS.
2. CONTRACTOR TO INSTALL ELECTRICAL DISCONNECTS AT WELL #5 AND #6. REFER TO ELECTRICAL SHEETS FOR DETAILS. (BY OTHERS)
3. PITLESS ADAPTERS AND VENTS SHALL TERMINATE A MINIMUM OF 3 FEET ABOVE THE DESIGNATED 100-YEAR FLOOD ELEVATION. 100-YEAR FLOOD ELEVATION 567.00.

DESCRIPTION	WELL #5	WELL #6
TOP OF PITLESS	570.0	570.0
100-YR FLOOD	567.0	567.0
EXISTING GRADE	567.0	567.0
APPROXIMATE BOTTOM OF SCREEN		
APPROXIMATE BOTTOM OF WELL		
TOTAL DEPTH OF WELL (BGS)		
PUMP DEPTH (BGS)		

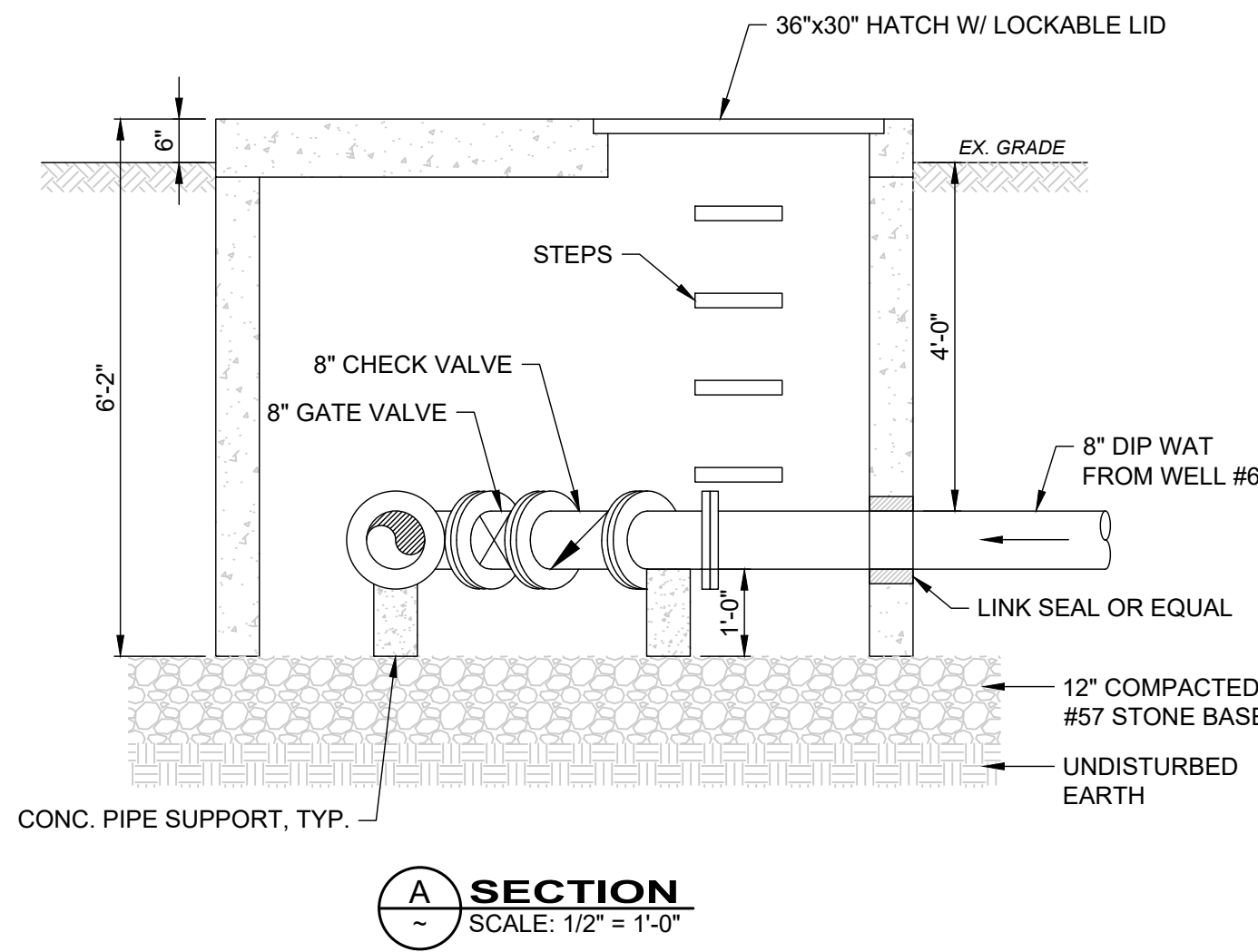


	NEW WELL #5 DATA	NEW WELL #6 DATA
AQUIFER	TYPE: SAND & GRAVEL	TYPE: SAND & GRAVEL
LOCATION	NORTHING: 388397.67 EASTING: 1819766.49	NORTHING: 388617.93 EASTING: 1820184.00
CASING	MATERIAL: STEEL DIAMETER: 16 IN. WALL THICKNESS: 0.375 IN.	MATERIAL: STEEL DIAMETER: 16 IN. WALL THICKNESS: 0.375 IN.
WELL SCREEN	TYPE: CONTINUOUS WIRE WOUND MATERIAL: STAINLESS STEEL SLOT SZ.: 0.04 IN. DIA.: XX IN. SET BETWEEN: XX FT & XX FT	TYPE: CONTINUOUS WIRE WOUND MATERIAL: STAINLESS STEEL SLOT SZ.: 0.04 IN. DIA.: XX IN. SET BETWEEN: XX FT & XX FT
GROUTING	MATERIAL/METHOD: BENTONITE SLURRY PUMPED W/ TREMIE PIPE DEPTH: XX FT AMOUNT USED: X BAGS	MATERIAL/METHOD: BENTONITE SLURRY PUMPED W/ TREMIE PIPE DEPTH: XX FT AMOUNT USED: X BAGS
PITLESS ADAPTOR	MAKE: XXX MODEL: XXX NSF 61 CERTIFIED	MAKE: XXX MODEL: XXX NSF 61 CERTIFIED
DROP PIPE	6\"/>	6\"/>
PUMP	MAKE: XXX MODEL: XXX MATERIAL: STAINLESS DUTY POINT: XXX GPM @ XXX FT DESIGN RATE: XXX GPM PUMP POWER: XX HP	MAKE: XXX MODEL: XXX MATERIAL: STAINLESS DUTY POINT: XXX GPM @ XXX FT DESIGN RATE: XXX GPM PUMP POWER: XX HP
PUMP MOTOR	POWER: 3-PHASE, 230/460V CYCLE: XX HZ SPEED: XXXX RPM	POWER: 3-PHASE, 230/460V CYCLE: XX HZ SPEED: XXXX RPM
PUMP TESTING	DURATION OF TEST: 72 HR STATIC LEVEL: XX FT PUMPING RATE: XX GPM MAXIMUM DRAWDOWN: XX FT	DURATION OF TEST: 72 HR STATIC LEVEL: XX FT PUMPING RATE: XX GPM MAXIMUM DRAWDOWN: XX FT
WELL DRILLERS	DRILLER: DATE DRILLED: ADDRESS:	

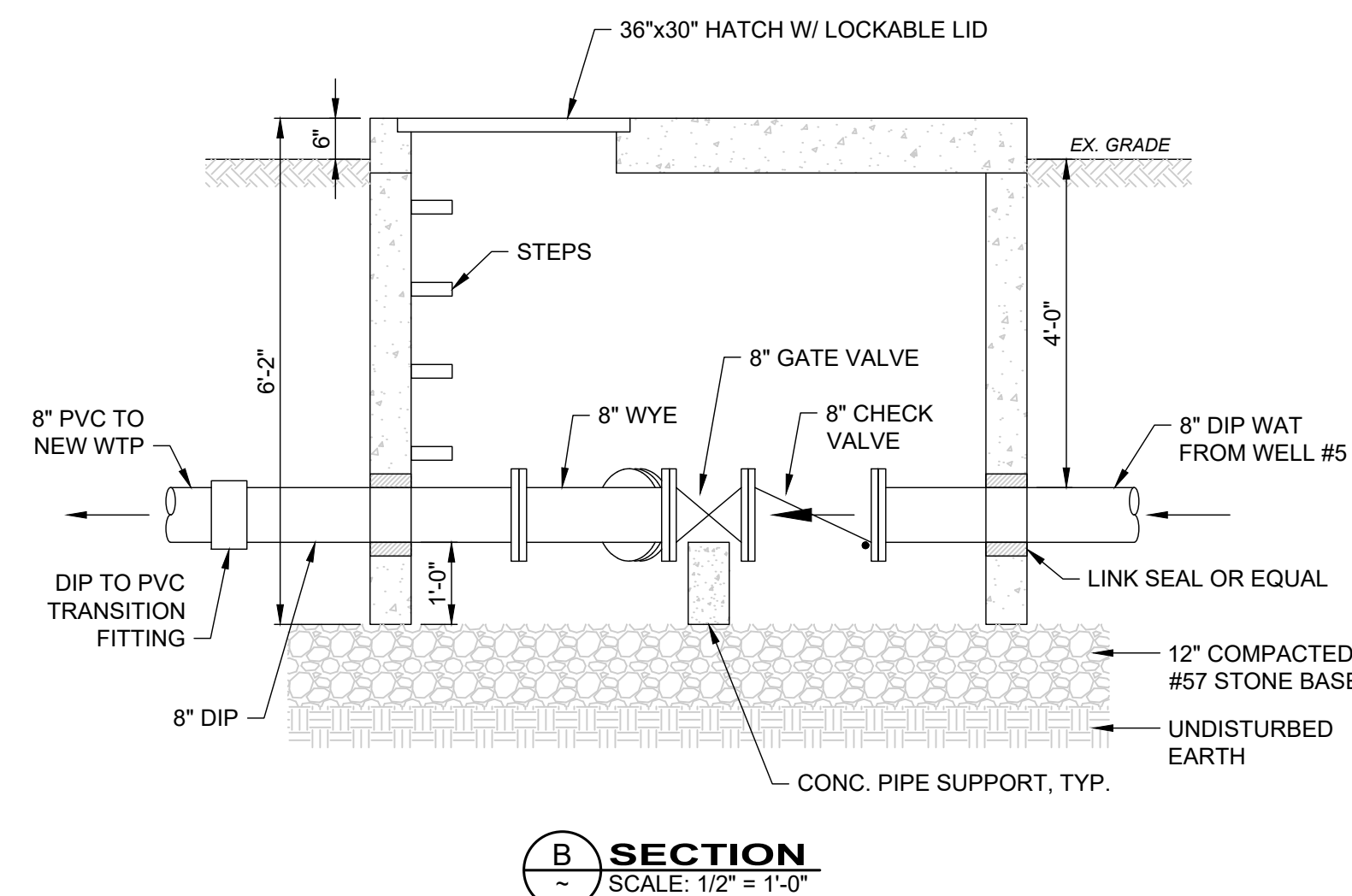
WELL #5 & #6 DETAIL
SCALE: NONE



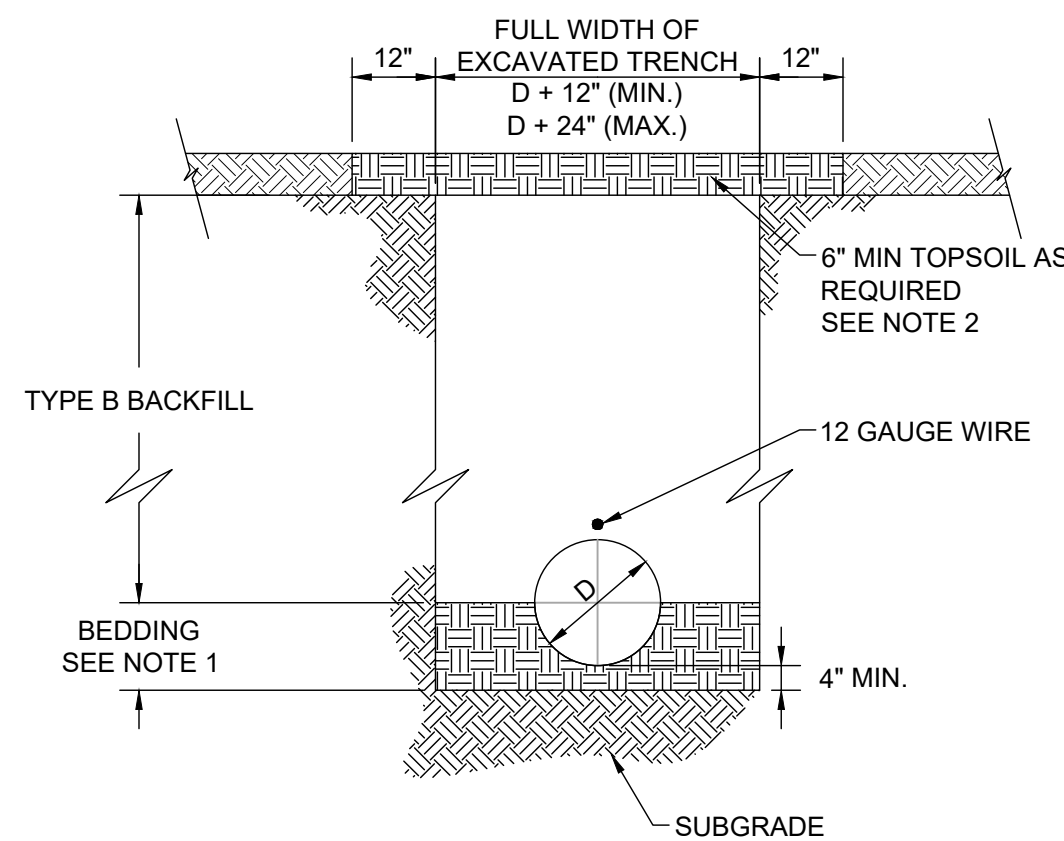
VALVE VAULT
SCALE: 1/2" = 1'-0"



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



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

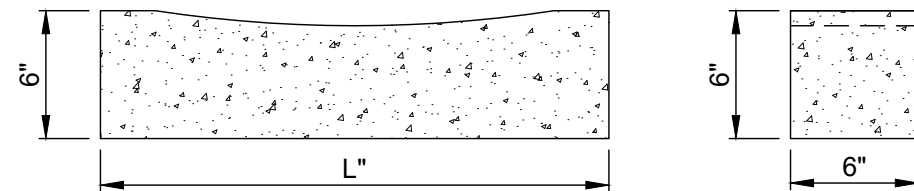


	SIZE	L	V
GATE VALVES	3"	15	0.31
	4"	16	0.33
	6"	17	0.36
	8"	20	0.42
	12"	24	0.50
BUTTERFLY VALVES	14"	28	0.58
	16"	30	0.63
	20"	36	0.75
	24"	42	0.88
	30"	48	1.00

V = VOLUME OF CONCRETE IN CUBIC FEET

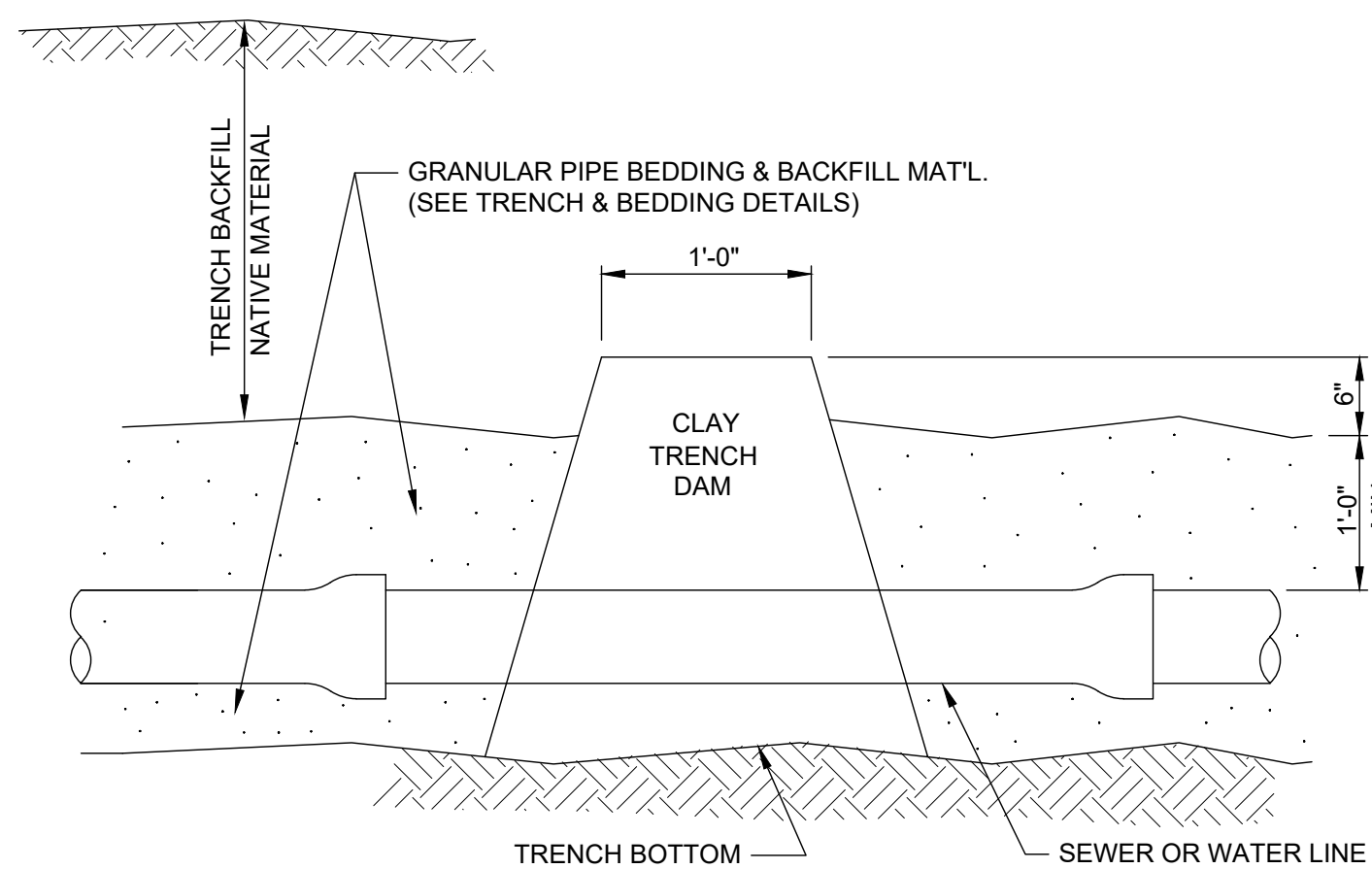
- NOTES:

1. CONCRETE FOR SUPPORTS SHALL BE ODOT CLASS "QC1".
2. BACKING SHALL BE DESIGNED FOR 300 PSF SOIL BEARING.
3. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED EARTH.
4. PROVIDE CLEARANCE FOR REMOVAL BOLTS.



CONCRETE VALVE SUPPORTS

NOT TO SCALE



NOTE:

TRENCH DAM SHALL BE UTILIZED IN AREAS WHERE GRANULAR BEDDING/BACKFILL HAS BEEN UTILIZED TO PREVENT THE MIGRATION OF GROUNDWATER WITHIN THE PIPE TRENCH.

TRENCH DAM DETAIL

NOT TO SCALE

- BACKFILL:

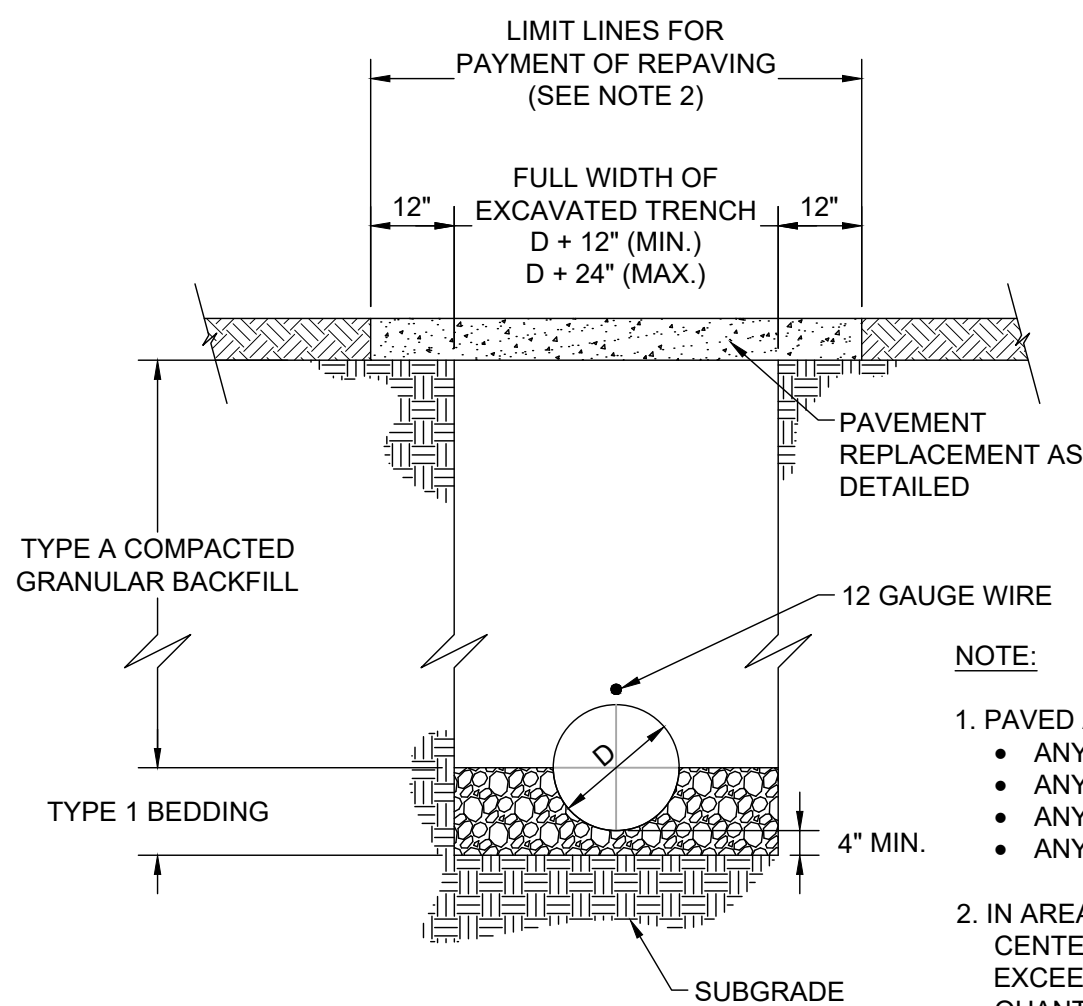
1. TYPE A, SHALL BE COMPACTED GRANULAR MATERIAL AS SPECIFIED IN ODOT CMS ITEM 304.
2. TYPE B SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 2 INCHES ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH OR FROZEN MATERIAL.
3. TYPE C SHALL BE LOW STRENGTH MORTAR BACKFILL, TYPE 1 AS SPECIFIED IN ODOT CMS ITEM 613.

BEDDING:

1. TYPE 1-GRANULAR MATERIAL No. 57,6,67,68 OR 7 PER ODOT CMS TABLE 703.01-1.
2. TYPE 2-NATIVE SOIL FREE FROM STONES LARGER THAN 2 INCHES ACROSS THEIR GREATEST DIMENSIONS, TOP SOIL, VEGETATION, DEBRIS OR FROZEN MATERIAL.
3. TYPE 3-CONCRETE BEDDING, CLASS QC1 CONCRETE PER ODOT CMS 499.

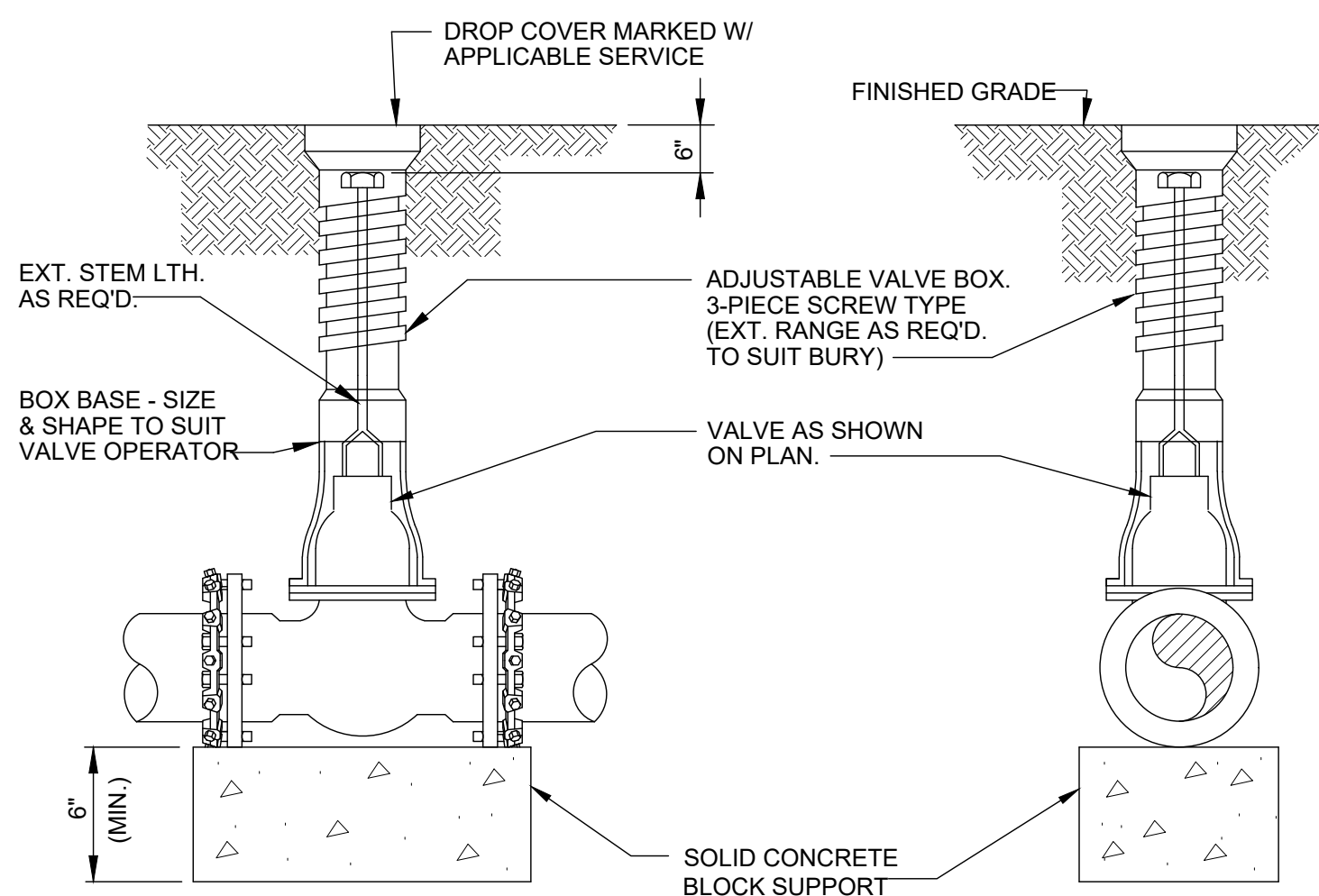
NOTES:

1. TYPE B BACKFILL MAY BE UTILIZED FOR BEDDING. SPECIALIZED BEDDING WILL BE UTILIZED ON A AS NEEDED BASIS AS DIRECTED BY OWNER.
2. IN AREAS DESIGNATED BY OWNER, EXISTING TOPSOIL SHALL BE REMOVED, STORED AND REPLACED FOLLOWING PIPE INSTALLATION. PAYMENT FOR THIS EFFORT SHALL BE ADDRESSED VIA THE SUPPLEMENTAL PAY ITEM.



**TRENCH DETAIL FOR WATERLINE INSTALLED
UNDER OR WITHIN 5' OF PAVED AREAS**

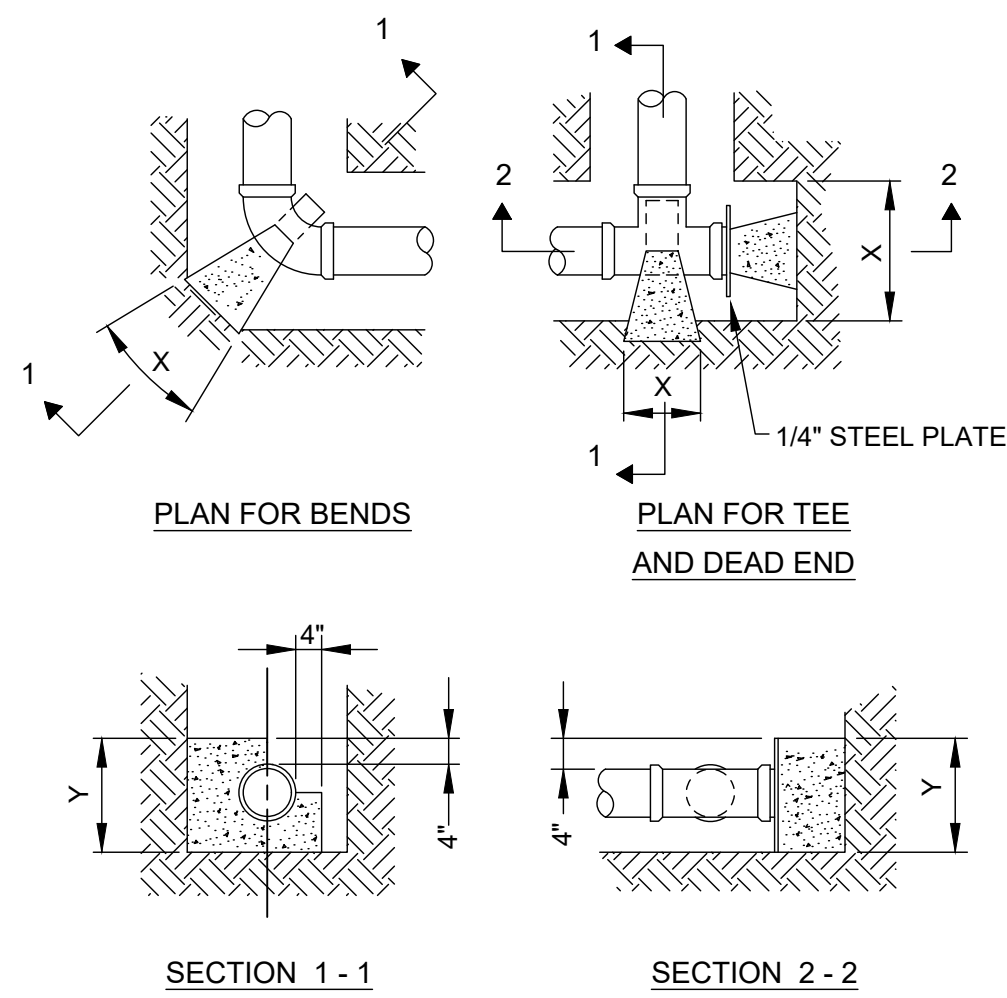
NOT TO SCALE



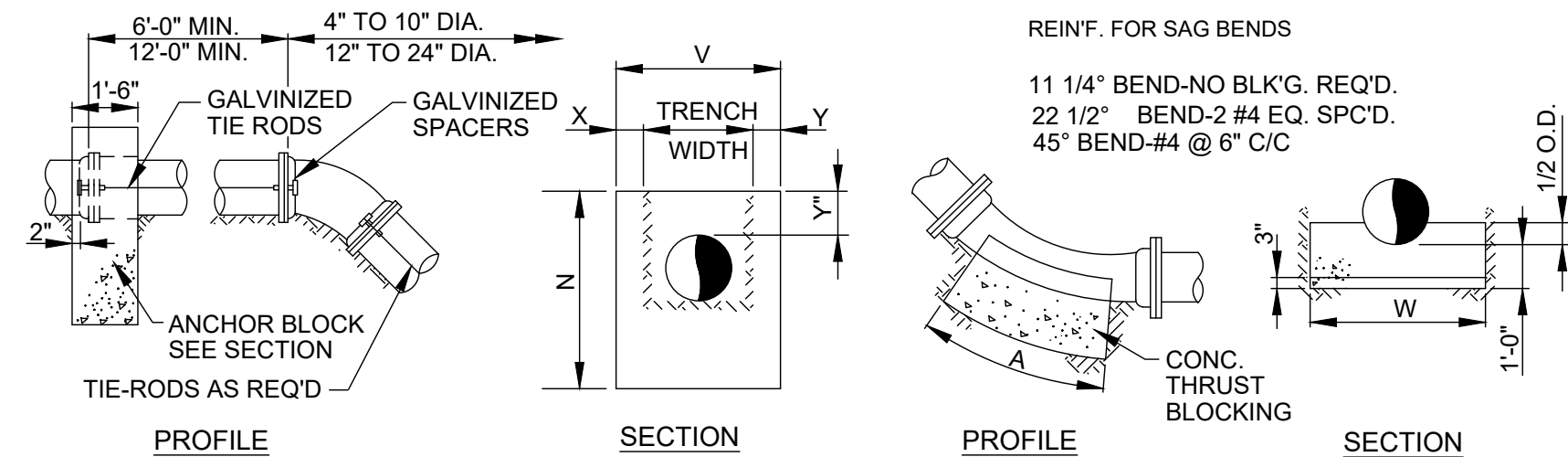
TYPICAL VALVE AND VALVE BOX SETTING

NOT TO SCALE

SIZING SCHEDULE				BEARING FACE (X Y) IN SQ. FT. CONCRETE VOLUME IN CU. YD.			
PIPE SIZE	22 1/2" BEND			45" BEND			
	SOIL BEARING CAPACITY			SOIL BEARING CAPACITY			
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	
4	1.40	0.46	0.26	2.70	0.90	0.54	
	0.14	0.09	0.06	0.12	0.06	0.06	
6	2.80	0.93	0.56	5.50	1.83	1.10	
	1.15	0.10	0.07	0.15	0.10	0.07	
8	4.90	1.60	0.96	10.50	3.22	1.92	
	0.20	0.13	0.09	0.15	0.15	0.09	
10	7.90	2.63	1.96	15.70	5.23	3.14	
	0.53	0.34	0.22	0.34	0.20	0.13	
12	11.30	3.76	2.26	22.30	7.43	4.46	
	0.62	0.40	0.26	0.75	0.49	0.32	
14	15.30	5.10	3.06	30.20	10.06	6.04	
	0.74	0.48	0.31	0.98	0.64	0.42	
16	19.80	6.60	3.96	39.10	13.03	7.82	
	1.17	0.76	0.49	1.21	0.79	0.51	
	90" BEND			TEE OR DEAD END			
	SOIL BEARING CAPACITY			SOIL BEARING CAPACITY			
	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	1000 P.S.F.	3000 P.S.F.	5000 P.S.F.	
4	4.90	1.63	0.96	3.50	1.16	0.70	
	0.14	0.09	0.06	0.12	0.06	0.06	
6	10.20	3.40	2.04	7.20	2.40	1.44	
	0.22	0.14	0.09	0.17	0.11	0.07	
8	17.70	5.54	3.54	12.50	4.16	2.50	
	0.35	0.23	0.15	0.25	0.16	0.14	
10	28.90	9.60	5.76	20.40	6.80	4.06	
	0.54	0.35	0.23	0.38	0.25	0.16	
12	41.10	13.70	8.22	29.10	9.70	5.82	
	1.31	0.85	0.55	0.97	0.63	0.42	
14	55.80	18.60	11.16	39.50	13.16	7.90	
	1.70	1.11	0.72	1.22	0.79	0.51	
16	72.20	24.06	14.44	51.10	17.03	10.22	
	2.14	1.39	0.90	1.54	1.00	0.65	



ALL CONCRETE BLOCKING MUST HAVE ITS ENTIRE FACE (X & Y) BEARING SURFACE AGAINST UNDISTURBED SOIL AND ALL VERTICAL NON-BEARING SURFACES SHALL BE FORMED SO AS TO KEEP CONCRETE FROM JOINTS. BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE PLUS WATER HAMMER OF 240 PSI AND FOR BEARING CAPACITY FOR SAND - 1000 PSF, SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.



PIPE SIZE	X 1 1/4", 22 1/2", & 45° BENDS					TIE RODS NO. & SIZE
	H	V	Y	N	C.Y.	
4"	1'-0"	4'-3"	1'-0"	2'-4"	.55	2-3/4" DIA.
6"	1'-0"	4'-6"	1'-0"	2'-6"	.61	2-3/4" DIA.
8"	1'-0"	4'-8"	1'-0"	2'-8"	.67	2-3/4" DIA.
10"	1'-0"	4'-10"	1'-0"	2'-10"	.72	4-3/4" DIA.
12"	1'-0"	5'-0"	1'-0"	3'-0"	.78	4-3/4" DIA.
14"	1'-0"	5'-2"	1'-0"	3'-3"	.87	6-3/4" DIA.
16"	1'-0"	5'-4"	1'-0"	4'-4"	1.09	8-3/4" DIA.
18"	1'-0"	5'-6"	1'-0"	4'-7"	1.34	8-3/4" DIA.

NOTES:

1. TABLE PORTION FOR NO. AND SIZE OF TIE RODS IS APPLICABLE TO ALL TIE-IN PIPING REQUIRING SUCH REINFORCEMENT.
2. USE OF ANCHOR BLOCKS AND OR THRUST BLOCKS NEEDED ONLY IF A TIE-RODDED EXTENSION PIECE EQUALS OR EXCEEDS A STANDARD PIPE LENGTH.

PIPE SIZE	22 1/2° BEND			45° BEND		
	A	W	C.Y.	A	W	C.Y.
4"	—	—	—	—	—	—
6"	—	—	—	0'-8"	1'-8"	0.05
8"	0'-8"	1'-4"	0.04	0'-9"	2'-8"	0.10
10"	0'-8"	2'-0"	0.06	1'-2"	2'-10"	0.16
12"	0'-8"	2'-4"	0.08	1'-7"	3'-0"	0.24
14"	0'-8"	3'-0"	0.09	1'-8"	3'-2"	0.28
16"	0'-9"	3'-4"	0.10	2'-3"	3'-4"	0.41
18"	1'-0"	3'-6"	0.20	2'-9"	3'-6"	0.54

3. BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE OF WATER HAMMER AND SOIL BEARING AT 3000 P.S.I.

ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	7/11/2025			
SCALE:	AS NOTED			
DESIGNED BY:	KAB			
DRAWN BY:	AGD			
CHECKED BY:	KAB			

VILLAGE OF PIKETON

PIKE COUNTY

L - 01 SERIES

DETAILS

PROJECT NO.	
211118	
DISCIPLINE	
CIVIL	
SHEET NAME	
01C-10	
SHEET	OF
12	14

ELECTRICAL SYMBOLS - PLAN:

	HOME RUN TO PANEL
	MOTOR
	MOTOR CONTROLLER
	FUSIBLE SAFETY SWITCH
	NON-FUSIBLE DISCONNECT SWITCH
	SIMPLEX RECEPTACLE, EXPLOSION PROOF
	DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
	DATA PORT, RJ45
	SPECIAL RECEPTACLE, NEMA TYPE NOTED
	SINGLE-POLE SWITCH, "3" INDICATES 3-WAY, "OS" INDICATES OCCUPANCY SENSING
	DRY-TYPE TRANSFORMER
	PUSHBUTTON STATION
	LOUVER OPERATOR
	JUNCTION BOX
	SOLENOID VALVE
	LIMIT SWITCH
	FLOW: SWITCH, SENSOR, TRANSMITTER W / DISPLAY
	LEVEL: SWITCH, SENSOR, TRANSMITTER W / DISPLAY
	PRESSURE: SWITCH, SENSOR, TRANSMITTER W / DISPLAY
	TEMPERATURE: SWITCH, SENSOR, TRANSMITTER W / DISPLAY
	OTHER SENSOR / INDICATING TRANSMITTER AS NOTED
	HAZARDOUS AREA LIGHT FIXTURE
	OUTDOOR CANOPY LIGHT FIXTURE
	EXTERIOR WALL-PACK LIGHT FIXTURE
	HIGH BAY LIGHT FIXTURE
	LINEAR LED LIGHT FIXTURE
	EXIT SIGN
	EMERGENCY REMOTE HEAD
	EMERGENCY WALL-PACK
	FIRE ALARM PULL STATION, STROBE, HORN-STROBE
	FIRE ALARM AREA SMOKE DETECTOR

ELECTRIC SYMBOLS - UTILITIES:

EX:	PR:	
		AIR CONDITIONING UNIT
		ELECTRIC CONTROL BOX
		ELECTRIC JUNCTION BOX
		ELECTRIC PULL BOX
		ELECTRIC RISER BOX
		ELECTRIC VAULT BOX
		ELECTRIC LIGHT - GROUND
		ELECTRIC LIGHT - POST
		ELECTRIC MARKER POST
		ELECTRIC METER
		ELECTRIC MANHOLE - 48"
		ELECTRIC MANHOLE - 48" - ADJUST
		ELECTRIC MANHOLE - LID
		ELECTRIC PAINT MARK
		ELECTRIC PEDESTAL
		ELECTRIC TRANSFORMER

SINGLE LINE, ELEMENTARY, & INTERCONNECTION DIAGRAMS (ONLY) SYMBOLOGY:

	DISCONNECT SWITCH - AMP RATING		N.O. LIMIT SWITCH		CONTACT - NORMALLY OPEN
	FUSE - AMP RATING		N.O. FLOW SWITCH		CONTACT - NORMALLY CLOSED
	CIRCUIT BREAKER - AMP RATING		N.O. LEVEL SWITCH		SOLENOID COIL
	TRANSFORMER		N.O. PRESSURE SWITCH		PILOT LIGHT - PUSH TO TEST (COLOR)
	MOTOR W / HORSEPOWER INDICATED		N.O. TEMPERATURE SWITCH		GROUND
	AMMETER		N.O. TIME DELAY AFTER ENERGIZATION		CAPACITOR
	VOLT METER		N.C. TIME DELAY AFTER ENERGIZATION		2 POSITION SELECTOR SWITCH
	POWER FACTOR METER		N.C. TIME DELAY AFTER DE-ENERGIZATION		3 POSITION SELECTOR SWITCH
	GROUND FAULT RELAY		N.O. TIME DELAY AFTER DE-ENERGIZATION		EQUIPMENT FIELD TERMINAL
	RELAY COIL		N.O. SWITCH (GENERAL)		
	TIMING RELAY COIL		START PUSHBUTTON NORMALLY OPEN		
	MOTOR STARTER COIL		STOP PUSHBUTTON NORMALLY CLOSED		
	ELAPSED TIME TOTALIZER				
	GROUNDING BUS				
	TRANSIENT VOLTAGE SURGE SUPPRESSOR				

ABBREVIATIONS:

A	AMPERES	IAW	IN ACCORDANCE WITH	PT	POTENTIAL TRANSFORMER
AF	AMPERE FRAME	ICP	INSTRUMENTATION & CONTROL PANEL	R	RELAY
AI	ANALOG INPUT (PLC)	IPP	INSTRUMENT POWER PANEL	RCP	REINFORCED CONCRETE PIPE
AL	ALUMINUM	JB	JUNCTION BOX	RVSS	REDUCED VOLTAGE SOFT STARTER
AM	AMMETER	JBC	JUNCTION BOX-CONTROL	SCP	SURGE CONTROL PANEL
AO	ANALOG OUTPUT (PLC)	JBM	JUNCTION BOX-METERING	SCR	SILICON-CONTROLLED RECTIFIER
AP	ALARM PANEL	JBP	JUNCTION BOX-POWER	SEC	SECONDARY
AT	AMPERE TRIP	KCM	KILO (1000) CIRCULAR MILL	SF	SUPPLY FAN
AWG	AMERICAN WIRE GAUGE	kVA	KILOVOLT AMPERES	SHLD	SHIELDED
C	CONDUIT	KVAR	KILOVOLT AMPERES-REACTIVE	SP	SHEAR PIN SWITCH
CAP	CAPACITOR	kW	KILOWATT	SPK	SPEAKER
CB	CIRCUIT BREAKER	LA	LIGHTNING ARRESTOR	SS	SELECTOR SWITCH OR STAINLESS STEEL
CJB	CONTROL JUNCTION BOX	LGT	LIGHT	SSOR	SOLID STATE OVERLOAD RELAY
CP	CONTROL PANEL	LOR	LOCAL/OFF/REMOTE SELECTOR SWITCH	SSPB	START/STOP PUSHBUTTON
CPT	CONTROL POWER TRANSFORMER	LP	LIGHTING PANEL	SSS	SOLID STATE STARTER
CR	CONTROL RELAY	LS	LEVEL SWITCH	STD	STANDARD
CS	CONTROL STATION	MCC	MOTOR CONTROL CENTER	STP	SHIELDED TWISTED PAIR
CT	CURRENT TRANSFORMER	MCP	MOTOR CIRCUIT PROTECTOR	STR	STARTER
Cu	COPPER	MDP	MAIN DISTRIBUTION PANEL	SV	SOLENOID VALVE
DB	DUCT BANK	MJB	METERING JUNCTION BOX	SW	SWITCH
DI	DIGITAL INPUT (PLC)	NEC	NATIONAL ELECTRICAL CODE	T	TELEPHONE
DO	DIGITAL OUTPUT (PLC)	NEMA	NATIONAL ELECTRICAL MFR ASSOC.	TB	TERMINAL BOARD
EAG	ELECTRICALLY ACTIVATED GATE	NEU	NEUTRAL	TC	TIME CLOCK
EAV	ELECTRICALLY ACTIVATED VALVE	NFDS	NON-FUSED DISCONNECT SWITCH	TD	TRENCH DUCT
EF	EXHAUST FAN	OCSS	OPEN/CLOSE SELECTOR SWITCH	TEB	TELEPHONE EQUIPMENT BACKBOARD
ESPB	EMERGENCY STOP PUSHBUTTON (MAINTAINED)	OL	OVERLOAD	TEMP	TEMPERATURE
ETM	ELAPSED TIME MONITOR	OOSS	ON/OFF SELECTOR SWITCH	TOR	THERMAL OVERLOAD RELAY
EWD	ELEMENTARY WIRING DIAGRAM	OS	OCCUPANCY SENSING	TR	TIMING RELAY
FDS	FUSED DISCONNECT SWITCH	OTS	OVER TORQUE SWITCH	TSTAT	THERMOSTAT
FLA	FULL LOAD AMPERES	P	POLE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FS	FLOW SWITCH	PB	PUSHBUTTON	UH	UNIT HEATER
FVC	FULL VOLTAGE CONTACTOR	PBC	PULLBOX-CONTROL	UNO	UNLESS NOTED OTHERWISE
FNVR-1	FULL VOLTAGE NON-REVERSING STARTER, SIZE 1	PBM	PULLBOX-METERING	UPS	UNINTERRUPTIBLE POWER SUPPLY
GFI	GROUND FAULT INTERRUPTER	PBP	PULLBOX-POWER	UTP	UNSHIELDED TWISTED PAIR
GND	GROUND	PE	PHOTOEYE	V	VOLTS
GFR	GROUND FAULT RELAY	PF	POWER FACTOR	VC	VOLUME CONTROL
HOA	HAND/OFF/AUTO SELECTOR SWITCH	PH	PHASE	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	PLC	PROGRAMMABLE LOGIC CONTROLLER	VM	VOLT METER
HTR	HEATER	PJB	POWER JUNCTION BOX	XP	EXPLOSION PROOF
HTS	HIGH TORQUE SWITCH	PP	POWER PANEL	XF	TRANSFORMER
Hz	HERTZ	PRI	PRIMARY	WP	WATERPROOF
		PS	PRESSURE SWITCH	ZS	LIMIT SWITCH

ELECTRICAL LINE SYMBOLOGY:

PROPOSED:

_____	CONDUIT AND WIRE RUN EXPOSED
_____	CONDUIT AND WIRE BELOW GRADE
_____ELEC_____ELEC_____	ELECTRIC LINE
_____ELEC-OH_____ELEC-OH_____	ELECTRIC LINE - OVERHEAD
_____ELEC-UG_____ELEC-UG_____	ELECTRIC LINE - UNDERGROUND
_____ELEC_____ELEC_____	ELEC SERVICE
_____ELEC-OH_____ELEC-OH_____ELEC-OH_____	ELEC SERVICE - OVERHEAD
_____ELEC-UG_____ELEC-UG_____ELEC-UG_____	ELEC SERVICE - UNDERGROUND
_____LIGHT-OH_____LIGHT-OH_____LIGHT-OH_____	ELEC LIGHTING - OVERHEAD
_____LIGHT-UG_____LIGHT-UG_____LIGHT-UG_____	ELEC LIGHTING - UNDERGROUND

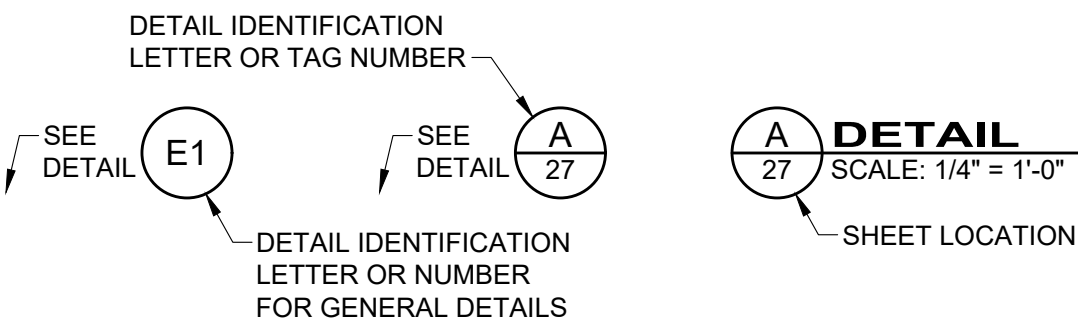
EXISTING:

_____ELEC_____ELEC_____	ELECTRIC LINE
_____ELEC-ABAN_____ELEC-ABAN_____ELEC-ABAN_____	ELECTRIC LINE - ABANDONED
_____ELEC-OH_____ELEC-OH_____	ELECTRIC LINE - OVERHEAD
_____ELEC-UG_____ELEC-UG_____	ELECTRIC LINE - UNDERGROUND
_____ELEC_____ELEC_____ELEC_____	ELECTRIC SERVICE
_____ELEC-OH_____ELEC-OH_____ELEC-OH_____	ELECTRIC SERVICE - OVERHEAD
_____ELEC-UG_____ELEC-UG_____ELEC-UG_____	ELECTRIC SERVICE - UNDERGROUND
_____LIGHT-OH_____LIGHT-OH_____LIGHT-OH_____	ELECTRIC LIGHTING - OVERHEAD
_____LIGHT-UG_____LIGHT-UG_____LIGHT-UG_____	ELECTRIC LIGHTING - UNDERGROUND
_____	ELECTRIC DUCT

ELECTRICAL CODED NOTES:

	NEW WORK - NOTE 1		DEMOLITION - NOTE 1		REVISION - NOTE 1
	NEW WORK - NOTE 2		DEMOLITION - NOTE 2		REVISION - NOTE 2
	NEW WORK - NOTE 3		DEMOLITION - NOTE 3		REVISION - NOTE 3

ELECTRICAL DETAIL REFERENCE:



ELECTRICAL GENERAL NOTES:

- ALL ELECTRICAL EQUIPMENT AND MATERIALS WILL BE SELECTED AND INSTALLED IN COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL FIRE CODES, INCLUDING BUT NOT LIMITED TO ALL PERTINENT NFPA REGULATIONS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH THESE CODES.
- DO NOT INSTALL DEVICES SCALED FROM THESE DRAWINGS. ALL DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE APPROVED CONDUIT/DEVICE LAYOUT DRAWINGS AND WITH DIMENSIONS TAKEN IN THE FIELD.
- ELECTRICIAN TO VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- NO DUCTWORK OR PIPING TO BE RUN ABOVE ELECTRICAL PANELS OR THROUGH ELECTRICAL EQUIPMENT ROOMS. ELECTRICIAN SHALL COORDINATE WITH ALL TRADES FOR EQUIPMENT LAYOUTS PRIOR TO ROUGH-IN OF ALL SYSTEMS.
- MANUFACTURERS AND CATALOG NUMBERS SHOWN IN THE LIGHT FIXTURE SCHEDULE ARE PROVIDED TO INDICATE DESIRED LIGHT FIXTURE CHARACTERISTICS. IT IS THE INTENT OF THE DOCUMENTS TO ALLOW ALTERNATE MANUFACTURERS TO PROVIDE LIGHTING PRODUCTS FOR THE PROJECT, AS LONG AS PROPOSED ALTERNATES PROVIDE THE SAME GENERAL DESIGN AND LIGHTING CHARACTERISTICS AS NOTED IN THE LIGHT FIXTURE DESCRIPTION.
- ELECTRICIAN TO CONFIRM LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CHARACTERISTICS OF PROCESS EQUIPMENT PROVIDED BY OTHER TRADES PRIOR TO INSTALLING ROUGH-INS AS SHOWN ON THE ELECTRICAL PLANS. ALL SHOP DRAWING REQUIREMENTS WILL BE CONSIDERED AS THE MEANS AND METHODS OF INSTALLATION.
- THIS PROJECT INVOLVES WORK AT AN INDUSTRIAL FACILITY AND THE CONTRACTOR IS EXPECTED TO PROVIDE CRAFTSMANSHIP REFLECTING THE NATURE OF THE FACILITY. CONDUITS IN PROCESS AREAS ARE TO BE SURFACE MOUNTED RIGID GALVANIZED STEEL (RGS). IN CLASSIFIED AREAS SEAL ALL CONDUITS TO RESTRICT THE PASSAGE OF GASSES AND VAPORS, AND ARRANGE SEALING FITTING DRAINS IN CONDUIT SYSTEMS TO PREVENT ACCUMULATION OF CONDENSATE ABOVE SEALS. ALL CONDUITS ENTERING OR LEAVING A MOTOR CONTROL CENTER, CONTROL PANEL, VALVE ACTUATOR, INSTRUMENT, A BUILDING, OR A PANELBOARD SHALL BE MADE WATERTIGHT USING AN INFLATABLE SEALED BLADDER DUCT SEALING SYSTEM, RAYCHEM 'RAYFLATE' DUCT SEALING SYSTEM RDSS OR APPROVED EQUAL. ALL HARDWARE IS TO BE STAINLESS STEEL UNLESS OTHERWISE DIRECTED.

ALL ENCLOSURES ARE TO BE RATED AS FOLLOWS (UON):

- OUTDOORS: NEMA 4X (STAINLESS STEEL)
 - CLASSIFIED AREAS: NEMA 7
 - INDOORS (CORROSIVE AREAS): NEMA 4X (STAINLESS STEEL)
 - INDOORS (CONTROLLED ENVIRONMENT) NEMA 12
- ELECTRICIAN SHALL REVIEW ALL OTHER TRADES' CONSTRUCTION DOCUMENTS AND/OR COORDINATE WITH OTHER TRADES AND VERIFY IF THERE ARE ANY ADDITIONAL ELECTRICAL REQUIREMENTS NOT SHOWN ON ELECTRICAL DRAWINGS. COST FOR WORK SHOWN ON OTHER TRADES' DRAWINGS SHALL BE INCLUDED IN BASE BID. ALL FIELD WIRING AND TERMINATIONS OF PROCESS EQUIPMENT AND INSTRUMENTATION AND CONTROLS SHALL BE THE RESPONSIBILITY OF THE ELECTRICIAN. ALL CABLES AND WIRES PROVIDED BY VENDORS SHALL BE INSTALLED AND TERMINATED BY THE ELECTRICIAN. WIRE ALL MISCELLANEOUS POWER AND CONTROLS AS REQUIRED TO PROVIDE A COMPLETE FUNCTIONING SYSTEM.
 - ELECTRICAL WIRES SHALL BE MINIMUM #12 AWG, COPPER, 600 V RATED. #14 AWG COPPER SHALL BE PERMISSIBLE FOR CONTROL CIRCUITRY. AMPACITY RATINGS SHALL BE BASED UPON 75°C RATINGS.
 - #14, #12, AND #10 AWG CONDUCTORS SHALL BE "THHN/THWN".
 - #8 AND LARGER SHALL BE STRANDED "THHN/THWN".
 - A 4-20mA SIGNAL IS AN ANALOG SIGNAL USED TO TRANSMIT DATA (LEVEL, FLOW, ETC.) FOR PROCESS CONTROLS. THE ELECTRICIAN SHALL PROVIDE, INSTALL, AND TERMINATE SHIELDED TWISTED PAIRS (STP) WIRING IN RIGID GALVANIZED STEEL CONDUIT (RGS). RGS IS USED IN AN ATTEMPT TO REDUCE THE DISTORTION AFFECT FROM EMI AND RFI. BELOW GRADE CONDUITS SHALL BE PVC SCHED-40, PARALLEL RUNS OF DATA CONDUITS AND POWER CONDUITS SHALL BE SEPARATED BY 2 FEET. THE STP SHIELD SHALL BE GROUNDED AT THE CONTROL PANEL ONLY (DO NOT GROUND AT BOTH ENDS).
 - THE ELECTRICIAN SHALL BE RESPONSIBLE FOR LAYOUT AND COORDINATION OF OPENINGS AND CHASES AND SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL THEIR WORK. ALL CONCRETE HOUSE KEEPING PADS SHALL BE FRAMED AND POURED BY THE ELECTRICIAN. PADS SHALL HAVE A 45 DEGREE, 1" CHAMFER AROUND UPPER EDGE.
 - THE ELECTRICIAN SHALL INSTALL & DISTRIBUTE TEMPORARY POWER SERVICE FOR THE DURATION OF THIS PROJECT AS DEFINED IN DIVISION 1 SPECIFICATIONS. ALL COSTS ASSOCIATED WITH THE INSTALLATION, DISTRIBUTION AND MAINTENANCE OF THE TEMPORARY POWER IS THE RESPONSIBILITY OF THE ELECTRICIAN. THERE SHALL BE 480/277V, 3PH, 4W; 208/120V, 3PH, 4W; AND 120/240V, 1PH, 3W POWER AVAILABLE AT ALL LOCATIONS OF CONSTRUCTION AS DIRECTED IN FIELD AND AS SPECIFIED. ALL TEMPORARY EQUIPMENT, CONDUITS & CONDUCTORS SHALL BE COMPLETELY REMOVED AT COMPLETION OF PROJECT.
 - ALL ELECTRICAL EQUIPMENT, DEVICES, LIGHTING FIXTURES, CONDUIT, AND WIRING SHOWN ON THE ELECTRICAL DRAWINGS IS NEW UNLESS CLEARLY CALLED OUT AS EXISTING. ALL EXISTING ELECTRICAL EQUIPMENT THAT IS CALLED OUT TO BE REUSED SHALL BE INSPECTED IN THE FIELD BY THE ELECTRICIAN AND THE CONSTRUCTION MANAGER TO DETERMINE ITS CONDITION PRIOR TO STARTING ANY WORK. PROVIDE DOCUMENTATION TO OWNER INDICATING CONDITION OF THE EXISTING EQUIPMENT, AND REUSE EXISTING EQUIPMENT ONLY IF ALL PARTIES AGREE THE CONDITION IS ACCEPTABLE. ALL EXISTING EQUIPMENT DETERMINED TO BE UNUSABLE SHALL BE REPLACED WITH LIKE KIND AS DIRECTED BY THE OWNER. ANY OF THE OWNERS EQUIPMENT DETERMINED TO BE REUSED THAT IS DAMAGED BY ANY CONTRACTOR DURING SWITCHOVER SHALL BE REPLACED BY THAT CONTRACTOR. ALL EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER (NOT THE CONTRACTOR) AND SHALL BE TREATED ACCORDINGLY.
 - THE ELECTRICIAN SHALL BE HELD RESPONSIBLE TO ENSURE ALL CONTROLLERS TO BE INSTALLED ARE CAPABLE OF LOCKOUT / TAGOUT PRIOR TO INSTALLATION.
 - CONFORM TO THE NEC, OSHA, FIRE MARSHAL, BUILDING DEPARTMENT AND OTHER APPLICABLE CODES AND REGULATIONS. OBTAIN PERMITS, PAY ALL FEES, AND ARRANGE FOR REQUIRED INSPECTIONS.
 - ALL LIGHTING AND RECEPTACLE WIRING TO BE #12 XHHW WITH EQUIPMENT GROUND IN 3/4" C UNLESS OTHERWISE NOTED.
 - DO NOT MOUNT ANY LIGHT FIXTURE DIRECTLY OVER PIPING OR EQUIPMENT THAT WILL INTERFERE WITH NORMAL LIGHTING DISTRIBUTION.
 - SIZE JUNCTION BOXES AS REQUIRED PER NEC. PROVIDE BARRIER TYPE TERMINAL STRIPS, AND ALL WIRING TO BE IN CONDUIT.
 - SIZE PULL BOXES (PB) AS REQUIRED PER NEC.
 - PROVIDE SEPARATE PB'S FOR CONTROL AND POWER.
 - MOTOR OVERLOAD SETTING SHALL BE FIELD SELECTED PER MOTOR NAME PLATE CURRENT AND INSTALLED ACCORDINGLY.
 - MOUNT LOCAL CONTROLS AND SERVICE DISCONNECTS ON WALL NEAREST EQUIPMENT WHERE POSSIBLE. (MAXIMUM 60" ABOVE FINISHED FLOOR OR FINAL GRADE, MAXIMUM LATERAL DISTANCE FROM WALL TO EQUIPMENT - 10 FEET).
 - ALL FEEDERS RUN BELOW GRADE SHALL BE RUN IN PVC CONDUIT AT MINIMUM 3'-0" BELOW FINISHED GRADE, TRANSITION TO ABOVE GRADE SHALL BE MADE USING FACTORY PVC COATED RIGID STEEL CONDUIT SWEEPS.

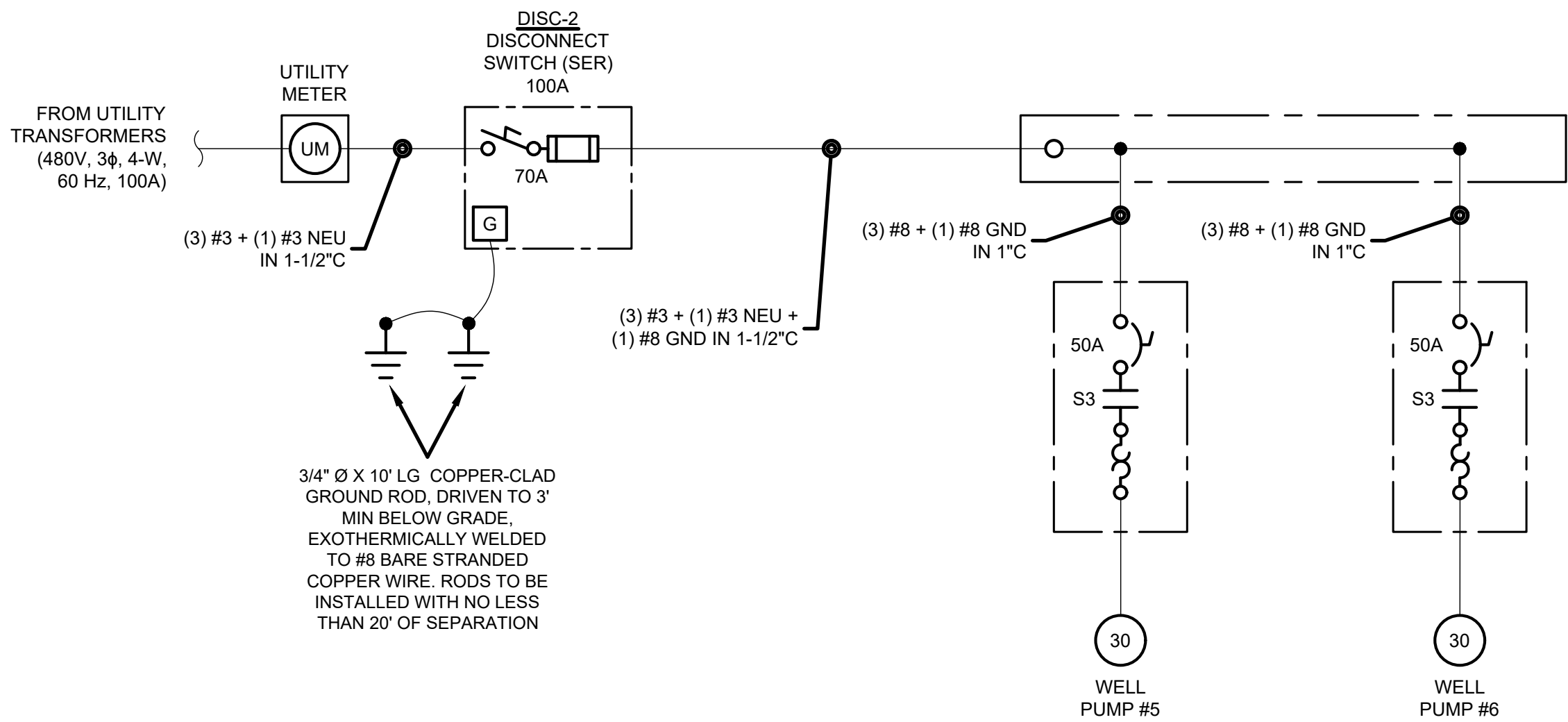
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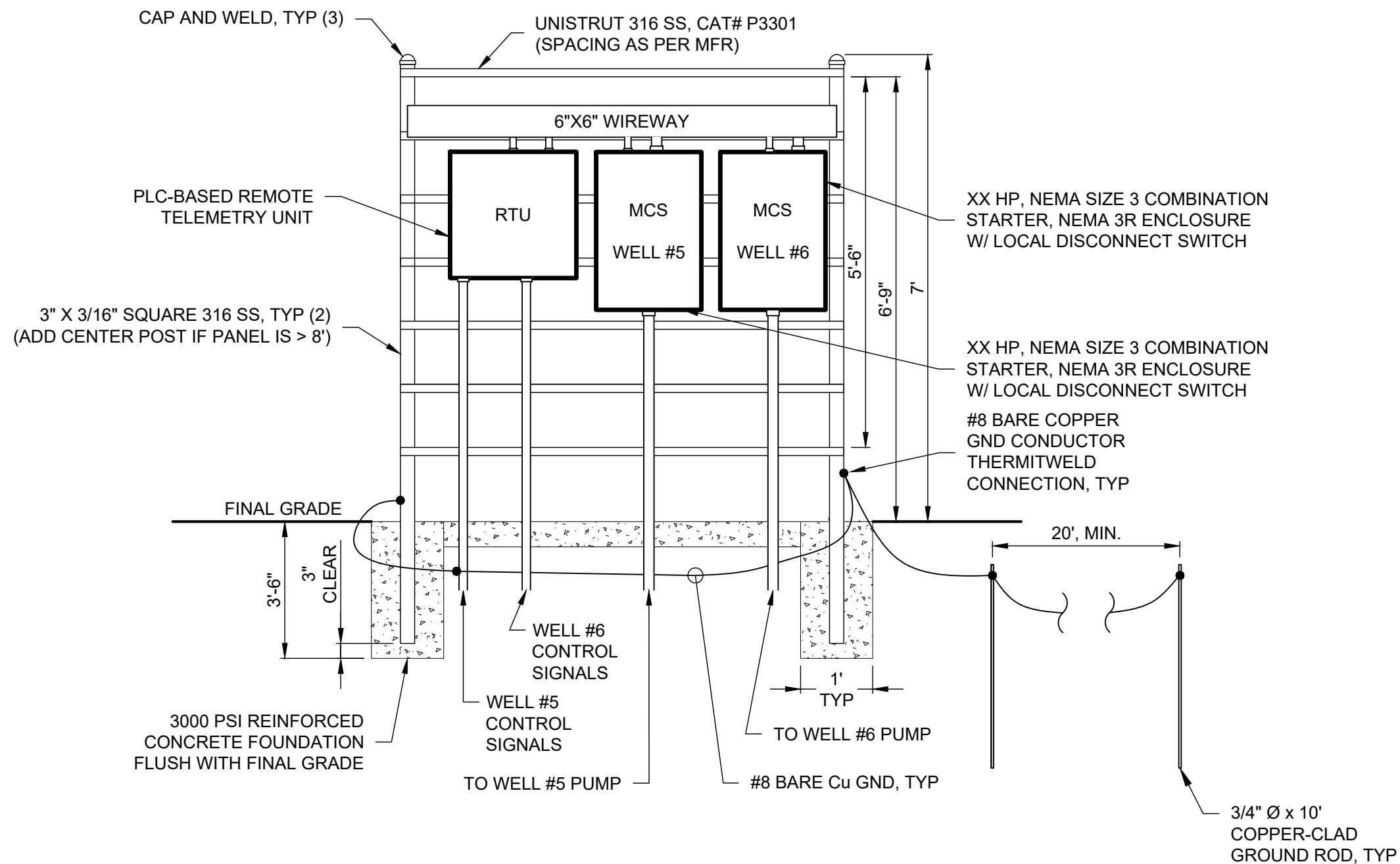
DATE	REVISION	NO	BIDDING	ISSUED FOR:	7/11/2025	AS NOTED	DESIGNED BY:	DRAWN BY:	CHECKED BY:

VILLAGE OF PIKETON NEW PRODUCTION WELLS #5 & #6 PIKE COUNTY	PIKETON, OHIO ELECTRICAL - E SERIES	ELECTRICAL LEGEND & GENERAL NOTES
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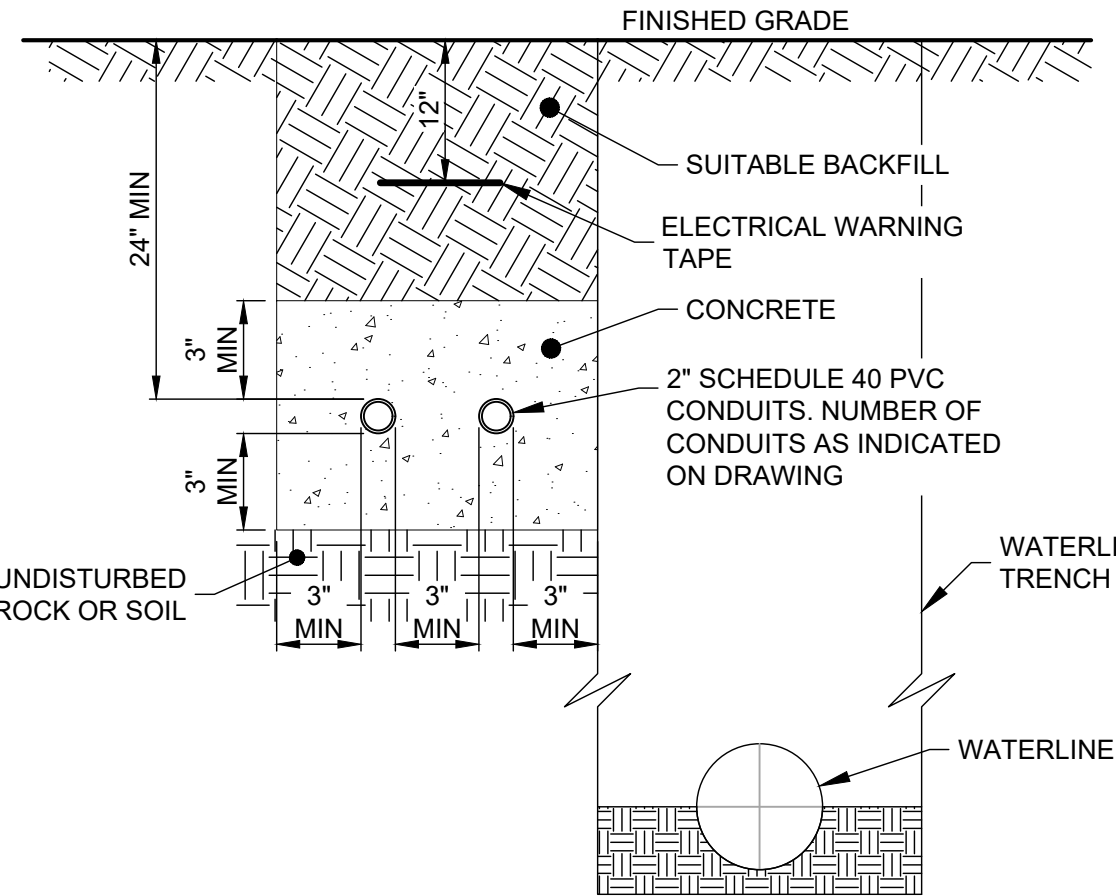
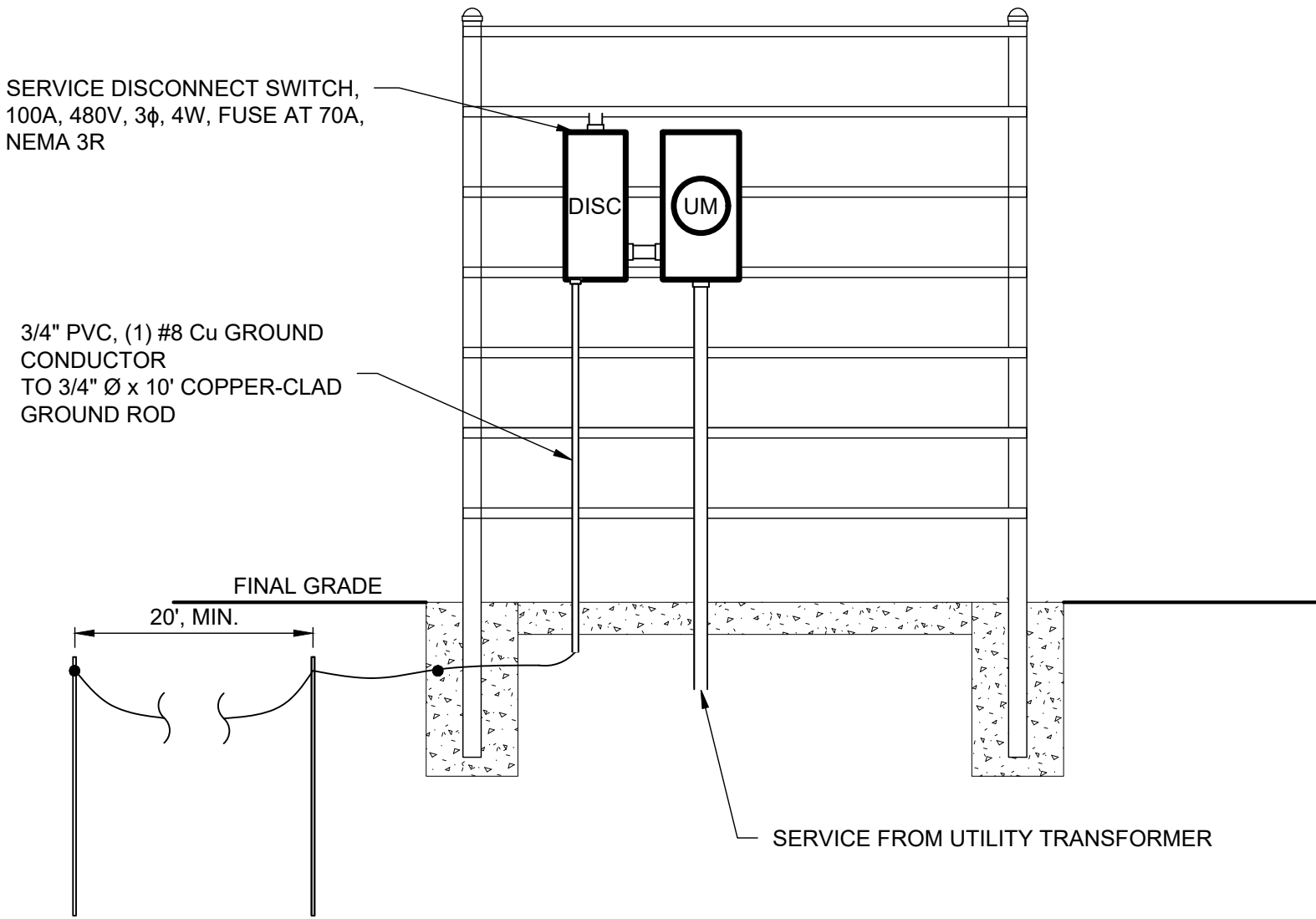
PROJECT NO. 211118	DISCIPLINE ELECTRICAL
SHEET NAME E-01	SHEET 13
OF 14	



WELL SITES #5 & #6 ONE-LINE DIAGRAM



ELECTRICAL EQUIPMENT BACKBOARD DETAIL
NOT TO SCALE



NOTES:
1. ELECTRICAL CONDUITS TO BE INSTALLED UNDER RAW WATERLINE CONTRACT (BY OTHERS).

ELECTRICAL TRENCH DETAIL
NOT TO SCALE

BID SET

verdantas

ISSUED FOR:	BIDDING	NO	REVISION	DATE
ISSUE DATE:	7/1/2025			
SCALE:	AS NOTED			
DESIGNED BY:	---			
DRAWN BY:	---			
CHECKED BY:	---			

VILLAGE OF PIKETON
NEW PRODUCTION WELLS #5 & #6

PIKETON, OHIO

PIKE COUNTY
ELECTRICAL - E SERIES
ELECTRICAL DETAILS

PROJECT NO.	211118
DISCIPLINE	ELECTRICAL
SHEET NAME	E-02
SHEET	14
OF	14