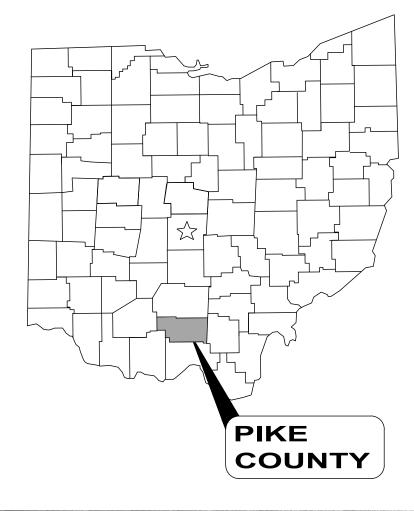
VILLAGE OF PIKETON NEW PRODUCTION WELLS #5 & #6

PIKE COUNTY, OHIO

JULY 2025



ADMINISTRATION:

C:\CT\CAD\ DRIVES\ H\2021\211118\DWG\SHEETS\ NEW WELLS 5 & 6\G 211118\-W - COVER SHEET.DWG - 00G-01 - 7/9/2025 1:07:29 PM - ADAM DAWSON

BILLY R. SPENCER **MAYOR**

VILLAGE ADMINISTRATOR/FISCAL OFFICER CHERYL KING

DALE SEIF VILLAGE SOLICITOR

COUNCIL:

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



LOCATION MAP NOT TO SCALE

APPROVALS:

OFFICE:

PROJECT SITE:

VILLAGE OF PIKETON 411 SOUTH WEST STREET PIKETON, OH 45661

(740) 289-2581 PHONE

WATER TREATMENT PLANT 1150 PIKETON ROAD PIKETON, OH 45661

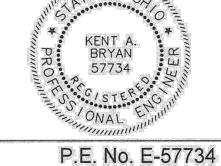
(740) 5289-2581 PHONE

ENGINEER:

VERDANTAS 6397 EMERALD PARKWAY, SUITE 200 DUBLIN, OH 43016

(614) 793-8777 PHONE

KENT A. BRYAN



7-25



1. 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

2. 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



SSUE DATE: 7/1/ LS #5 & #6 SCALE: AS NC PIKETON, OHIO DESIGNED BY: DRAWN BY:					
PIKETON, OHIO DESIGNED BY: DRAWN BY:		ISSUE DATE:	7/1/2025		
PIKETON, OHIO DESIGNED BY: DRAWN BY:	VELLS #3 & #0	SCALE:	AS NOTED		
	PIKETON, OHIO	DESIGNED BY:	KAB		
	RIES	DRAWN BY:	AGD		
	L	CHECKED BY:	KAB		

PROJECT NO.

211118

DISCIPLINE **GENERAL**

SHEET NAME

00G-01

BY SUBMITTING A BID OR STARTING CONSTRUCTION THE CONTRACTOR

THE CONTRACTOR HAS VISITED THE SITE AND IS SATISFIED THAT HE UNDERSTANDS ALL SITE CONDITIONS THAT MAY HAVE AN EFFECT ON THE BID PRICE AND CONSTRUCTION SCHEDULE.

THE CONTRACTOR FULLY UNDERSTANDS THE MAKE-UP, CONSTRUCTION, AND OPERATION OF ALL SYSTEMS AND EQUIPMENT HE IS CONSTRUCTING AND THAT HE HAS INCLUDED IN HIS PRICE ALL MATERIALS, SUPPLIES, ACCESSORIES, AND SERVICES NECESSARY TO MAKE THESE SYSTEMS COMPLETE AND OPERATIONAL WHETHER SUCH MATERIALS, SUPPLIES, AND SERVICES ARE EXPLICITLY SHOWN ON THE DRAWINGS OR INCLUDED IN THESE SPECIFICATIONS OR ONLY IMPLIED BY THE CLEAR INTENT OF THESE DOCUMENTS FOR THE CONTRACTORS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM AS PART OF THE SCOPE OF WORK UNDERTAKEN BY THIS CONTRACTOR.

THE OWNER DOES NOT SUPERVISE, NOR ARE THEY ENGAGED IN CONSTRUCTION. THE OWNER HAS NO CONTROL OVER OR CHARGE OF, AND THEREFORE IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT FOR CONSTRUCTION.

MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR ALL PRODUCTS AND/OR BUILDING MATERIALS THAT MAY CONTAIN HAZARDOUS OR TOXIC CHEMICALS SHALL BE MADE READILY AVAILABLE TO CONTRACTOR, EMPLOYEES AND OWNER'S PERSONNEL DURING CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND CONTROLLING TRAFFIC ON ALL STREETS AND ROADS AFFECTED BY CONSTRUCTION AND SHALL, PRIOR TO ANY CONSTRUCTION. SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER FOR APPROVAL INDICATING DATES AND DURATION OF EACH PHASE OF CONSTRUCTION.

ALL CONSTRUCTION SIGNS AND TEMPORARY TRAFFIC CONTROL AND PROTECTION DEVICES SHALL BE ERECTED AND MAINTAINED IN ACCORDANCE WITH "OHIO DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND O.D.O.T. ITEM 614 - MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC OPERATIONS MUST ADHERE TO ALL REGULATIONS AND/OR MANDATES BY THE APPROPRIATE MAINTAINING AUTHORITY OF THE ROADWAY.

COSTS FOR MAINTENANCE OF TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM PAY ITEM -MAINTAINING TRAFFIC.

WHEN IT IS REQUIRED THAT THE STREET OR ROAD BE CLOSED TO THROUGH TRAFFIC, THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND REMOVE SIGNS, BARRICADES, ETC., AS PER THE OMUTCD REQUIREMENTS. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ADVANCE WARNING SIGNS, DETOUR SIGNS AND BARRICADES, ETC. ON ALL STREETS INCLUDING SIDE STREETS THAT ARE AFFECTED BY THE WORK.

CONTRACTOR SHALL SCHEDULE HIS WORK TO INSURE THAT EACH ROAD CLOSING IS NO LONGER THE SIX (6) HOURS AND OCCURS BETWEEN THE HOURS OF 9:00 A.M. TO 4:00 P.M. MONDAY THROUGH FRIDAY. THE CONTRACTOR SHALL MAKE SUITABLE PROVISIONS FOR ACCESS BY LOCAL RESIDENTS, SCHOOL BUSES, MAIL DELIVERY VEHICLES, POLICE, FIRE, AND EMERGENCY VEHICLES AT ALL TIMES. CONTRACTOR IS RESPONSIBLE TO NOTIFY SCHOOL SYSTEM, POLICE AND FIRE DEPARTMENT TWO DAYS PRIOR TO CLOSURE OR PARTIAL CLOSURE OF ANY STREET.

THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN DETOUR MARKING SIGNS ON TEMPORARY

IF IN THE OPINION OF THE ENGINEER, PROPER MAINTENANCE OF TRAFFIC FACILITIES AND PROPER PROVISION FOR TRAFFIC CONTROL ARE NOT BEING PROVIDED AND THE SAFETY OF THE PUBLIC IS THUS ENDANGERED, THE OWNER MAY TAKE THE NECESSARY STEPS TO PLACE THEM IN PROPER CONDITION AND THE COST OF SUCH SERVICES WILL BE BORNE BY THE CONTRACTOR.

NO DRIVEWAY IS TO BE CLOSED FOR MORE THAN FIVE (5) HOURS WITH THE TIME STARTING WHEN THE ENTRANCE IS CLOSED TO TRAFFIC. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING PROPERTY OWNERS, RESIDENTS, OR BUSINESS OPERATORS IN WRITING AT LEAST 24 HOURS BUT NOT MORE THAN 72 HOURS PRIOR TO CLOSURE. THE ENGINEER SHALL BE GIVEN A LIST OF THE BUSINESSES THAT WERE GIVEN NOTICES WITH THE DATE OF NOTICE INCLUDED. IF FOR ANY REASON THE FIVE (5) HOUR MAXIMUM LIMIT IS EXCEEDED ON ANY DRIVEWAY, THE CONTRACTOR WILL NOT BE PERMITTED TO CLOSE ANY FURTHER DRIVEWAYS UNTIL ALL CLOSED DRIVEWAYS ARE REOPENED. DRIVEWAYS SHALL NOT BE CLOSED DURING THE EVENING OR ON WEEKENDS.

CLOSURE OF STATE AND/OR COUNTY HIGHWAYS IS PROHIBITED WITHOUT PERMIT FROM THE GOVERNING HIGHWAY AUTHORITY.

TEMPORARY SURFACES:

TEMPORARY SURFACES WHERE EXCAVATIONS ARE LOCATED IN STREETS, DRIVES AND PARKING AREAS SHALL BE FURNISHED AND PLACED BY THE CONTRACTOR AND SHALL BE FULLY MAINTAINED TO MINIMIZE INCONVENIENCE TO THE PUBLIC.

SAFETY TRENCH PROTECTION AND BACKFILLING:

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENT, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL ALSO ABIDE BY ALL ORDINANCES OF THE MUNICIPALITY.

BACKFILLING SHALL FOLLOW IMMEDIATELY BEHIND CONSTRUCTION. ONLY THE MINIMUM LENGTH OF TRENCH REQUIRED FOR CONSTRUCTIONS SHALL BE OPEN AT ANY GIVEN TIME, AND NO EXCAVATIONS SHALL REMAIN OPEN OVERNIGHT OR BEYOND THE COMPLETION OF THE DAYS WORK.

THE CONTRACTOR SHALL, AT ALL TIMES DURING CONSTRUCTION, PROVIDE PROPER AND SATISFACTORY MEANS AND DEVICES FOR THE REMOVAL OF ALL WATER ENTERING THE EXCAVATIONS AND SHALL REMOVE ALL SUCH WATER AS FAST AS IT MAY COLLECT IN SUCH A MANNER AS SHALL NOT INTERFERE WITH THE EXECUTION OF THE WORK.

ANY MODIFICATIONS AND CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE THE PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER.

THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BIDDING. THE CONTRACTOR SHALL EXAMINE IN THE FIELD THE ACCESS PROBLEMS, AVAILABLE WORK AREAS, WATER CONDITIONS, NEARBY STRUCTURES, TREES, GROUND CONDITIONS AND FILL MATERIALS. FIELD VISITS SHALL BE COORDINATED WITH THE OWNER.

ALL PROPERTY LINE MARKERS (IRON PINS, SPIKES, CONCRETE MONUMENTS, ETC.) THAT ARE LIABLE TO BE DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE REFERENCED AND PROPERLY RESET AT THE CONTRACTOR'S EXPENSE FOLLOWING CONSTRUCTION UNDER THE SUPERVISION OF A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF OHIO.

DISPOSAL OF WASTE CONSTRUCTION MATERIALS:

THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE DISPOSAL OF SURPLUS EXCAVATED MATERIAL AND WASTE CONSTRUCTION MATERIALS. TREES, LIMBS, BRUSH AND STUMPS REMOVED BY THE CONTRACTOR'S OPERATION SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR FOLLOWING OEPA REGULATIONS

THE CONTRACTOR SHALL FURNISH ALL TOOLS, MATERIAL, LABOR AND INCIDENTALS AND APPURTENANCES TO COMPLETE IN EVERY DETAIL AND LEAVE IN WORKING ORDER ALL ITEMS OF WORK CALLED FOR AND/OR SHOWN IN THE DRAWINGS. MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN IN THE DRAWINGS, BUT NECESSARY TO COMPLETE THE WORK SHALL BE

FIELD DRAINAGE TILE, STORM DRAINS, UNDER DRAINS, DRIVE CULVERTS AND FIELD TILE MAY BE ENCOUNTERED DURING THE COURSE OF EXCAVATION UNDER THIS CONTRACT. THE CONTRACTOR SHALL REPAIR, REPLACE OR REROUTE THE AFFECTED TILE SO AS TO LEAVE THE DRAINAGE SYSTEM IN ORIGINAL CONDITION OR BETTER AND THE SYSTEM IN GOOD WORKING ORDER. THE COST OF WORK THIS SHALL BE INCLUDED IN THE RELATED BID ITEMS.

UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS EXCEPT RIGHT OF WAY PERMITS FOR THE AREAS DESIGNATED ON THE DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL DETAIL SURVEYS NEEDED FOR CONSTRUCTION.

ALL ELEVATIONS ARE BASED ON U.S.G.S. 1988 DATUM

THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHTS-OF-WAY, OR CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE OWNER. EXISTING PROPERTY LINES AND RIGHTS OF WAY SHOWN ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXACT LOCATION IN ADVANCE OF CONSTRUCTION OPERATIONS.

EROSION CONTROL DEVICES AND MEASURES:

THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL DEVICES AND MEASURES SO THAT THE SITE COMPLIES WITH THE REQUIREMENTS AND RECOMMENDATIONS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES; RAINWATER AND LAND DEVELOPMENT MANUAL; OHIO STANDARDS FOR STORM WATER MANAGEMENT AND LAND DEVELOPMENT AND URBAN STREAM PROTECTION.

THE CONTRACTOR SHALL RESTRICT THE EMISSION OF ALL FUGITIVE DUST AND PARTICULATE, AIRBORNE OR OTHERWISE, THAT ARISES FROM HIS OPERATION AND ACTIVITIES RELATIVE TO THIS PROJECT. DUST CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED PURSUANT TO THE APPLICABLE REQUIREMENTS OF THE OHIO ADMINISTRATIVE CODE (OAC) SECTION 3745-17-08 IN EFFECT AT THE TIME OF THE CONTRACT. SUCH MEASURES SHALL APPLY TO ACTIVITIES ON-SITE AS WELL AS OFF-SITE.

ROCK EXCAVATION AND DISPOSAL

THE COST OF ALL ROCK REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS PIPELINE ITEMS. BLASTING WILL NOT BE PERMITTED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.

ALL ITEMS OF WORK CALLED FOR ON THE PLAN FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED, SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF THE SAME SHALL BE INCLUDED IN THE RELATED VARIOUS BID ITEMS FOR PAYMENT.

EXISTING WATER DISTRIBUTION SYSTEM:

WITH THE SPECIFICATIONS AND BACKING DETAILS.

UNLESS OTHERWISE INDICATED, THE EXISTING WATERLINES SHOWN ON THESE DRAWINGS ARE OWNED AND OPERATED BY THE W-A-D-C-.

OPERATION OF EXISTING VALVES: OPERATION OF EXISTING VALVES SHALL ONLY BE DONE BY THE OWNER OR OWNER'S

REPRESENTATIVE.

BACKING: ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE IN ACCORDANCE

WATER MAINS SHALL BE LAID WITH A MINIMUM OF 4'-0" COVER FROM FINISHED GRADE TO THE TOP OF THE WATER MAIN.

GRADE CONFLICT IN CASE OF CONFLICT IN GRADE BETWEEN WATER MAINS AND SEWERS. THE WATER MAINS SHALL BE LOWERED AT THE TIME OF CONSTRUCTION.

DEFLECTION UNLESS OTHERWISE APPROVED BY THE ENGINEER, WATER MAINS SHALL BE DEFLECTED AROUND STRUCTURES WITHOUT THE USE OF SPECIAL FITTINGS AND WITHOUT EXCEEDING THE MANUFACTURER'S ALLOWABLE DEFLECTION.

EXTENSION STEM: IF THE TOP OF THE OPERATING NUT FOR ANY VALVE IS MORE THAN 36" BELOW THE FINISHED GRADE. AN EXTENSION STEM SHALL BE PROVIDED TO PLACE THE OPERATING NUT BETWEEN 24" AND 36" OF THE FINISHED GRADE.

GRANULAR BACKFILL

EXCAVATION AT ALL STREETS, DRIVES, WALKS, PARKING AREAS AND OTHER ROADWAYS SHALL BE BACKFILLED AND COMPACTED WITH GRANULAR MATERIAL CONFORMING TO THESE DRAWINGS. ADDITIONAL GRANULAR MATERIAL SHALL BE STOCKPILED AT SELECT LOCATION (APPROVED BY OWNER) FOR USE WHEN SETTLEMENT OCCURS. ALL GRANULAR MATERIAL SHALL BE MECHANICALLY COMPACTED IN 8" LAYERS. THE COST OF ALL GRANULAR BACKFILL AND PLACEMENT SHALL BE INCLUDED IN THE BID PRICE OF THE RESPECTIVE WATERLINE ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.

ALL LEAKS ENCOUNTERED DURING TESTING AND CONSTRUCTION SHALL BE LOCATED AND REPAIRED AT THE CONTRACTOR'S EXPENSE.

MINIMUM PRESSURE:

THE NORMAL WORKING PRESSURE MAINTAINED AT SERVICE CONNECTIONS SHALL NOT BE LESS THAN 35 P.S.I.. SYSTEM OPERATION SHALL MAINTAIN A MINIMUM PRESSURE OF 20 P.S.I. AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW.

WATER SERVICE INTERRUPTIONS:

INTERRUPTION OF EXISTING WATER SERVICES IS PROHIBITED WITHOUT THE AUTHORIZATION OF THE OWNER AND ENGINEER. WATER SERVICE INTERRUPTIONS THAT ARE REQUIRED AS PART OF THIS PROJECT SHALL BE COORDINATED WITH THE OWNER AND ENGINEER AND A MINIMUM NOTICE OF 72 HOURS SHALL BE PROVIDED.

WATERLINE BREAKS:

IN THE EVENT THAT THE CONTRACTOR'S OPERATIONS CAUSE A BREAK IN THE EXISTING WATER MAINS OR SERVICE LINE, THE CONTRACTOR SHALL CEASE CONSTRUCTION OPERATIONS AND REPAIR THE BREAK AT HIS OWN COST. ONCE THE BREAK HAS BEEN REPAIRED TO SATISFACTION OF THE OWNER OR ENGINEER, CONSTRUCTION OPERATIONS MAY RESUME.

ALL MATERIALS UTILIZED IN THE CONSTRUCTION OF THIS PROJECT THAT WILL COME IN CONTACT WITH POTABLE WATER SHALL BE AWWA AND/OR NSF 60/61 APPROVED. PIPE AND MATERIALS INCORPORATED INTO THIS PROJECT SHALL ALSO CONFORM TO THE LATEST REVISION OF THE APPROPRIATE STANDARDS AS FOLLOWS:

AWWA C-900 FITTINGS: **AWWA C-153** VALVES: AWWA C-509 SERVICE LINE: AWWA C-901 HYDRANTS (6"): AWWA C-502

APPURTENANCES: AWWA/NSF STANDARDS AS APPLICABLE

INDIVIDUAL BOOSTER PUMPS:

CONNECTION OF INDIVIDUAL BOOSTER PUMPS TO THE PROPOSED WATERLINE IS PROHIBITED.

THE SERVICE CONNECTION LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE FOR REFERENCE ONLY. THE EXACT LOCATION OF SERVICE CONNECTIONS SHALL BE DETERMINED IN THE FIELD, PRIOR TO CONSTRUCTION, AND SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR HIS REPRESENTATIVE.

SUBSURFACE CONDITIONS:

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATIONS OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID PROPOSAL.

THE CONTRACTOR SHALL, AT ALL TIMES DURING CONSTRUCTION, PROVIDE PROPER AND SATISFACTORY MEANS AND DEVICES FOR THE REMOVAL OF ALL WATER ENTERING THE EXCAVATIONS AND SHALL REMOVE ALL SUCH WATER AS FAST AS IT MAY COLLECT IN SUCH A MANNER AS SHALL NOT INTERFERE WITH THE PROSECUTION OF THE WORK.

FITTINGS REQUIRED FOR CONSTRUCTION:

THE CONTRACTOR SHALL FURNISH ALL FITTINGS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT, NECESSARY TO ACHIEVE THE DESIRED HORIZONTAL/VERTICAL ALIGNMENT AND COMPLETE CONSTRUCTION. COST FOR THE REQUIRED FITTINGS SHALL BE INCLUDED IN THE VARIOUS WATERLINE ITEMS BID.

EXCESS EXCAVATION MATERIAL:

THE REMOVAL AND DISPOSAL OF ALL EXCAVATED MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FURNISH THE OWNER A COPY OF WRITTEN PERMISSION FROM THE PROPERTY OWNER PRIOR TO DISPOSING OF ANY WASTE MATERIAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE RESTORATION FOR ALL WASTE AREAS USED IN THE COURSE OF THIS CONTRACT. THE RESTORATION WORK SHALL INCLUDE CLEANUP, SHAPING AND GRADING AND ESTABLISHMENT OF VEGETATIVE COVER BY SEEDING AND MULCHING IN ACCORDANCE WITH O.D.O.T. ITEM 659. THE FINAL GRADING OF WASTE AREAS SHALL BE PROPERLY SLOPED TO PROVIDE DRAINAGE RUNOFF. ALL ROCKS, BOULDERS, CONCRETE CHUNKS, BROKEN PIPES, ETC. SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF IN A LICENSED FACILITY.

EQUIPMENT MOVEMENT

NO NON RUBBER-TIRED VEHICLES SHALL BE MOVED ON ANY STREETS. EXCEPTIONS MAY BE GRANTED BY THE OWNER WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED AND PROTECTION IS PROVIDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY PAVEMENT DAMAGED AS A RESULT OF THE CONTRACTOR'S ACTIVITIES, WITH NO EXCEPTIONS.

WATER FOR CONSTRUCTION:

WATER USED FOR FILLING, FLUSHING, AND TESTING WILL BE COORDINATED WITH AND SUPPLIED BY THE OWNER. IF THE CONTRACTOR REQUESTS WATER FROM A HYDRANT, THE CONTRACTOR MUST COORDINATE THAT WITH THE OWNER AND PROVIDE THE REQUIRED BACKFLOW PREVENTION DEVICE. THE OWNER SHALL PROVIDE A QUANTITY OF WATER THAT IS DEEMED REASONABLE FOR COMPLETION OF THE WORK AND MAY ADJUST THE POINT WHERE WATER IS MADE AVAILABLE AT THEIR DISCRETION.

THE CONTRACTOR SHALL THOROUGHLY CLEAN, FLUSH, AND TEST THE WATER MAINS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS PRIOR TO ACCEPTANCE AND PLACEMENT INTO SERVICE. ALL COSTS ASSOCIATED WITH THE PRESSURE AND DISINFECTION TESTING SHALL BE BORNE BY THE CONTRACTOR. TESTING LAB MUST BE ON OHIO EPA APPROVED LIST.

THE CONTRACTOR SHALL SUPPLY ALL EQUIPMENT, MATERIALS, TAPS, AND LABOR NECESSARY FOR

PRESSURE TESTING SHALL BE IN ACCORDANCE WITH A.W.W.A. C-600 AND AWWA C-605 FOR DUCTILE IRON AND PVC MAINS RESPECTIVELY.

DISINFECTION SHALL BE IN ACCORDANCE WITH A.W.W.A. C-651

FINAL GRADING AND RESTORATION:

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION. ALL UNPAVED AREAS SHALL BE SEEDED AND MULCHED.

ALL SIGNS, MAILBOXES, FENCES, GUARDRAILS, ROADSIDE DITCHES, OR OTHER PHYSICAL FEATURES DISTURBED OR DAMAGED DURING WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. THE COST OF ALL SUCH WORK SHALL BE INCLUDED IN BID FOR VARIOUS ITEMS.

TREES, SHRUBS AND THE OTHER PLANTINGS DISTURBED OR DESTROYED IN EASEMENT AREAS OR WORK AREAS WHICH ARE OUTSIDE ROAD RIGHT-OF-WAY SHALL BE REPLACED AS NECESSARY IN LIKE KIND. THE OWNER SHALL BE GIVEN NOTICE OF INTENT TO REMOVE TREES IN THE RIGHT-OF-WAY A MINIMUM OF 48 HOURS BEFORE REMOVAL. NO TREES SHALL BE REMOVED OR DISTURBED WITHOUT PRIOR CONSENT OF THE ENGINEER AND OWNER.

ALL DISTURBED AREAS NOT SUBJECT TO TRAFFIC SHALL BE ROUGH GRADED WITHIN SEVEN DAYS OF PIPE INSTALLATION AND FINISH GRADED, SEEDED AND MULCHED WITHIN ONE MONTH OF PIPE INSTALLATION. TRENCH IN THESE AREAS MAY BE MOUNDED TO 12" HIGH OVER EXCAVATED AREAS AFTER ROUGH GRADING TO ACCOUNT FOR SETTLEMENT, FINISH GRADING SHALL BE BROUGHT TO ORIGINAL GRADE.

EXISTING WATER SERVICES MAY NOT BE SHOWN. CONTRACTOR SHALL COORDINATE EXCAVATION PROCEDURES TO IDENTIFY LOCATION OF THESE FACILITIES AND TO LIMIT DAMAGE. REPAIR OF DAMAGED FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

EXPOSURE OF UTILITY CROSSINGS:

CONTRACTOR SHALL CAREFULLY REVIEW DRAWINGS FOR LOCATIONS WHERE THE PROPOSED WATERLINE CROSSES EXISTING UNDERGROUND FACILITIES. CROSSING LOCATIONS SHALL BE EXPOSED BY CONTRACTOR IN ADVANCE OF PIPE INSTALLATION ACTIVITIES TO AVOID GRADE CONFLICT AND POTENTIAL DELAY.

JNDERGROUND UTILITIES:

THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS NOT REPRESENTED, WARRANTED OR GUARANTEED TO BE COMPLETE OR ACCURATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PHYSICALLY LOCATE AND VERIFY, IN THE FIELD, ALL UTILITY LOCATIONS AND ELEVATIONS, PRIOR TO THE BEGINNING OF HIS CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL SUPPORT, PROTECT, AND RESTORE ALL EXISTING UTILITIES AND THEIR ASSOCIATED ITEMS.

THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UTILITY. THE OWNER AND/OR ENGINEER ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR THE DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS, IN ACCORDANCE WITH SECTION 153.64, OHIO REVISED CODE, AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO THE BEGINNING OF ANY WORK, COORDINATE HIS WORK WITH THEM, AND KEEP THE UTILITY OWNERS APPRAISED OF HIS SCHEDULE AND REQUIREMENTS UNTIL ALL WORK IS COMPLETED. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES AND PROVIDING THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK. NOTICE SHALL BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE AND TO THE OIL AND GAS PRODUCERS UNDERGROUND PROTECTION

THE FOLLOWING IS A PARTIAL LIST OF UTILITY REGISTRATION SERVICES AND UTILITY OWNERS WHO MUST BE NOTIFIED. THE CONTRACTOR SHALL COMPLY WITH THE REGULATIONS SET FORTH BY THE RESPECTIVE PUBLIC SERVICE CORPORATIONS AS LISTED:

OHIO UTILITIES PROTECTION SERVICE

OHIO OIL AND GAS PRODUCERS

4740 BELMONT AVE YOUNGSTOWN, OH 44505 (800) 362-2764

ATTN: BRENT GATES (614) 883-6802 HTTP://WWW.AEPOHIO.COM/

NATURAL GAS

(330) 498-9130

PIKE NATURAL GAS

OHIO POWER (AEP)

UNDERGROUND PROTECTION SERVICE PO BOX 535 GRANVILLE OH, 43023

WATER & SEWER VILLAGE OF PIKETON 411 SOUTH WEST STREET PIKETON, OHIO 45661 PHONE: (740) 289-2581

(800) 925-0988

INTERFACE WITH EXISTING UTILITIES:

THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL PUBLIC OR PRIVATE UTILITY FACILITIES DURING CONSTRUCTION. SHOULD IT BECOME NECESSARY TO MOVE, ADJUST, OR TEMPORARILY RELOCATE ANY SUCH FACILITY, THE WORK SHALL BE DONE BY THE OWNER OF THE UTILITY FACILITY ANY DAMAGE TO UTILITY FACILITIES BY THE CONTRACTOR OR HIS SUBCONTRACTORS WILL BE REPAIRED BY THE OWNER OF SAID UTILITY, AND THE COST OF SAID REPAIRS WILL BE PAID BY THE CONTRACTOR, THE CONTRACTOR SHALL SEND PROOF OF PAYMENT TO THE UTILITY FOR THE REPAIR TO THE OWNER, PRIOR TO FINAL PAYMENT.

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS CONSIDERED IN HIS BID ALL OF THE PERMANENT AND TEMPORARY UTILITY APPURTENANCES IN THEIR PRESENT OR RELOCATED POSITIONS AND THAT NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS. INCONVENIENCE, OR DAMAGE SUSTAINED BY HIM DUE TO ANY INTERFERENCE FROM THE SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM.

CONTRACTOR SHALL ENSURE ALL POWER POLES, ELECTRICAL SERVICES AND ANY OTHER UTILITIES ARE SUPPORTED AS NECESSARY WHILE CONSTRUCTION THE PROPOSED IMPROVEMENTS. COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS BID ITEMS FOR PAYMENT.

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PROJECT NO. 211118

SHEET NAME 00G-02

DISCIPLINE

GENERAL

EXISTING PLAN LINE SYMBOLOGY:

____ X ____ X ____ X ____ X ____ X ____ FENCE, GENERAL ___X__X__X__X__X__X__X__ FENCE, BARBED WIRE FENCE, CHAIN LINK _____ 0 ____ 0 ____ 0 ____ 0 ____ FENCE, DECORATIVE FENCE, ELECTRIC FENCE, WOOD FENCE, WOVEN WIRE CABLE RAIL 0 0 0 0 0 0 0 0 TELEPHONE, ABANDONED TELEPHONE TELEPHONE, OH TELEPHONE, UG TELEPHONE, SERVICE TELEPHONE, SERVICE OH TELEPHONE, SERVICE, UG ELECTRIC, ABANDONED ----- ELEC-ABAN ---- ELEC-ABAN -----ELECTRIC, DUCT BANK ELECTRIC ELECTRIC, OH ELECTRIC, UG ELECTRIC, SERVICE ----- ELEC-OH ------ ELEC-OH -----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 ----- STM-ABAN ----- STM-ABAN -----STORM CULVERT STORM SEWER STORM SEWER, DOUBLE STORM, ROOF DRAIN STORM, UNDERDRAIN TELEPHONE, ABANDONED TELEPHONE TELEPHONE, OH ______ TEL-UG _____ TELEPHONE, UG TELEPHONE, SERVICE TELEPHONE, SERVICE OH ______ TEL-OH ______ TEL-OH _____ ______ TEL-UG ______ TEL-UG _____ TELEPHONE, SERVICE, UG WATER LINE, ABANDONED WATERLINE WATER LINE, DOUBLE WATER LINE, SERVICE ----- WS ----- WS ----- WS -----NON-POTABLE WATER LINE ALUM SOLUTION LINE CHLORINE SOLUTION LINE SULFER DIOXIDE SOLUTION LINE MAJOR CONTOUR MINOR CONTOUR TOP OF BANK TOP OF DITCH

OGY:

(ŝ)	SANITARY MANHOLE
0	SANITARY CLEANOUT
1	SANITARY LINE CAP
AN <	SANITARY LINE PAINT MARKING
0)	SANITARY STRUCTURE NUMBER
(V)	SANITARY VENT PIPE
5)	STORM MANHOLE (SOLID LID)
<u>)</u>)	STORM MANHOLE (OPEN GRATE)
I	CURB INLET
	CURB INLET (DOUBLE)
3	CATCH BASIN
)	CATCH BASIN (ROUND LID)
	CATCH BASIN (DOME)
	CATCH BASIN (SIDE INLET)
	DRAIN DOWNSPOUT
]	
	STORM CLEANOUT STORM LINE CAP
==	STORM LINE CAP
	STORM HEADWALL
\ \ \ \	STORM LINE PAINT MARKING
0>	STORM STRUCTURE NUMBER
_/ 202	ROCK CHANNEL PROTECTION
2 8 2 1	SURFACE DRAINAGE FLOW
\ \ \	STORM FLOOD ROUTING ARROW
) (FIRE HYDRANT
Į.	WATER SIAMESE CONNECTION
3	WATER VALVE
3	WATER VALVE BOX
///	WATER METER
3	WATER METER PIT
>	WATER LINE REDUCER
	WATER LINE CAP
Į	WATER LINE PLUG
	WATER LINE PAINT MARKING
)	POST INDICATOR VALVE
	WATER MANHOLE
	WATER FLUSHING ASSEMBLY
	WATER FIXTURE
-1	WATER FITTING (TEE)
	WATER FITTING (CROSS)
,	WATER FITTING (45° WYE)
	WATER FITTING (11.25°)
-1	WATER FITTING (22.50°)
	WATER FITTING (45°)
H	WATER FITTING (90°)
7	IRRIGATION SPRINKLER HEAD
j R	IRRIGATION CONTROL BOX
j ()	IRRIGATION BOX STEAM MANHOLE
	STEAM WANHOLE STEAM VENT
<u>,</u>	COMBINED SEWER MANHOLE
<i>;</i> -	GAS LIGHT POST (YARD)
	GAS LIGHT POST (YARD) GAS MANHOLE
	GAS VALVE
	GAS VALVE BOX
	GAS VALVE BOX GAS METER
	GAS METER GAS REGULATOR
	GAS VENT PIPE

GAS LINE PAINT MARKING

ELECTRIC LIGHT POST (YARD)

ELECTRIC MANHOLE

ELECTRIC PULL BOX

ELECTRIC CONTROL BOX

ELECTRIC JUNCTION BOX

ELECTRIC VAULT BOX

EM ELECTRIC METER

E ELECTRIC PEDESTAL

GE GAS LINE FIXTURE

ELECTRIC RISER BOX	PBI	PAPERBOX
ELECTRIC TRANSFORMER	P	PARKING METER
ELECTRIC HVAC UNIT	RIP	GRAVE HEADSTONE
ELECTRIC GROUND LIGHT	BBQ	EX. BARBEQUE GRILL
ELECTRIC LINE PAINT MARKING	FUEL	FUEL PUMP
CABLE TV MANHOLE	F	FLAG POLE
CABLE TV PEDESTAL	. ⊟	RAISED PAVEMENT MARKER
CABLE TV PAINT MARKING	0	GUARDRAIL, CENTER POST
TELEPHONE MANHOLE	\odot	GUARDRAIL, TERMINAL POST
TELEPHONE PULL BOX	0	GUARDRAIL, BOTTOM POST
TELEPHONE PEDESTAL	0	GUARDRAIL, TOP POST
TELEPHONE RISER BOX	٠	FENCE POST
TELEPHONE LINE PAINT MARKING		PICNIC TABLE
TELEPHONE PAY PHONE		BENCH
FIBER OPTIC CABLE MANHOLE	\odot	DECIDUOUS TREE
FIBER OPTIC CABLE PAINT MARKING	***	EVERGREEN TREE
TRAFFIC CONTROL MANHOLE	Q.	STUMP
TRAFFIC CONTROL BOX	8	BUSH
TRAFFIC CONTROL PAINT MARKING	\circ	IRON PIN FOUND
TRAFFIC PULL BOX	0	SOLID IRON PIN FOUND
TRAFFIC SIGNAL PEDESTAL		IRON PIPE FOUND
UNKNOWN, PULL BOX	×	DRILL HOLE FOUND
UNKNOWN, CLEANOUT	\times	CHISELED "X" FOUND
UNKNOWN, MANHOLE	M	MONUMENT BOX FOUND
UNKNOWN, VALVE		MONUMENT CONCRETE FOUND
MONITORING WELL	RW	MONUMENT RIGHT-OF-WAY FOUND
TEST WELL	Ø	PK NAIL FOUND
WATER WELL	Ø	MAG NAIL FOUND
SOIL BORING	\triangle	SPIKE FOUND
SWAMP		HUB FOUND
POLE, ELECTRIC		AXLE FOUND
POLE, TELEPHONE	•	WOOD POST FOUND
	CS	CORNER STONE FOUND
POLE, LIGHT		AERIAL TARGET FOUND

GPS CONTROL FOUND

BENCHMARK FOUND

POLE, LIGHT, DECORATIVE

[☐]==<_>POLE, LIGHT-OVERHEAD

POLE, CABLE TV

POLE, UTILITY

POLE, GENERAL

POLE, GUY

POLE, BRACE

POLE, TRAFFIC CONTROL

POLE, ELECTRIC/TELEPHONE

POLE, ELECTRIC W/LIGHT

POLE, ELECTRIC/CABLE TV

POLE, TELEPHONE/LIGHT

POLE, CABLE TV W/LIGHT

←−−− POLE, GUY WIRE

── SIGN, DOUBLE SIDED

SIGN, RAILROAD

DELINEATOR POST

= PARKING BUMPER BLOCK

HANDICAP PARKING SYMBOL

HANDICAP PARKING SYMBOL

HANDICAP DETECTABLE WARNING

SIGN, DUAL POST

POST

BOLLARD

MB MAILBOX

POLE, TELEPHONE/CABLE TV

POLE, ELECTRIC/TELEPHONE/LIGHT

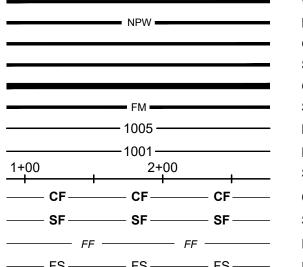
POLE, ELEC./TELE./LIGHT/CABLE TV

POLE, TELEPHONE/LIGHT/CABLE TV

POLE, ELECTRIC/TELEPHONE/CABLE TV

- 1. THIS IS A STANDARD SHEET SHOWING COMMONLY USED SYMBOLOGY.
- HIGHLIGHT SPECIFIC TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- 4. SYMBOLOGY OR DIAGRAMMATICAL LEGENDS MAY BE SHOWN ON INDIVIDUAL SHEETS FOR SCHEDULES, DIAGRAMS, DETAILS,

NEW SITE PLAN LINE SYMBOLOGY:

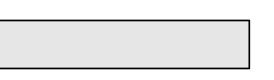


WATER SERVICE LINE (POTABLE) GAS SERVICE LINE STORM SEWER LINE **GRAVITY SANITARY SEWER LINE** SANITARY SEWER FORCE MAIN LINE MAJOR CONTOUR MINOR CONTOUR STATIONING CONSTRUCTION FENCE

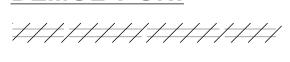
NEW PLAN HATCHING:

A A	Δ Δ	

NEW SIDEWALK



NEW PAVEMENT AREA



UTILITY LINE OR OBJECT TO BE



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, ADJUST WATER SIAMESE CONNECTION

FIRE HYDRANT

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

PROJECT NO. 211118 DISCIPLINE CIVIL SHEET NAME

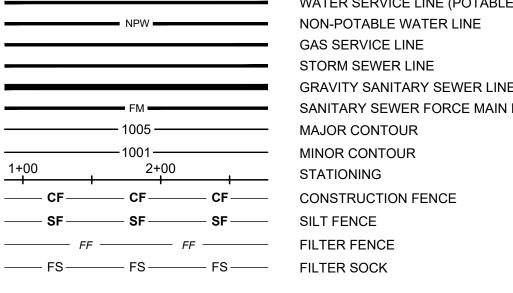
01C-01

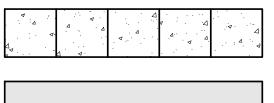
GENERAL SYMBOLOGY NOTES:

2. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.

3. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE NEW IMPROVEMENTS SO AS TO

SCHEMATICS OR EQUIPMENT.









REMOVED OR ABANDONED AS SHOWN ON THE DRAWINGS

BOTTOM OF DITCH

WATER EDGE

PROPERTY LINE

RIGHT-OF-WAY LINE

RIGHT-OF-WAY C/L

PAVED ROADWAY GRAVEL DRIVEWAY

CURB FACE CURB BACK

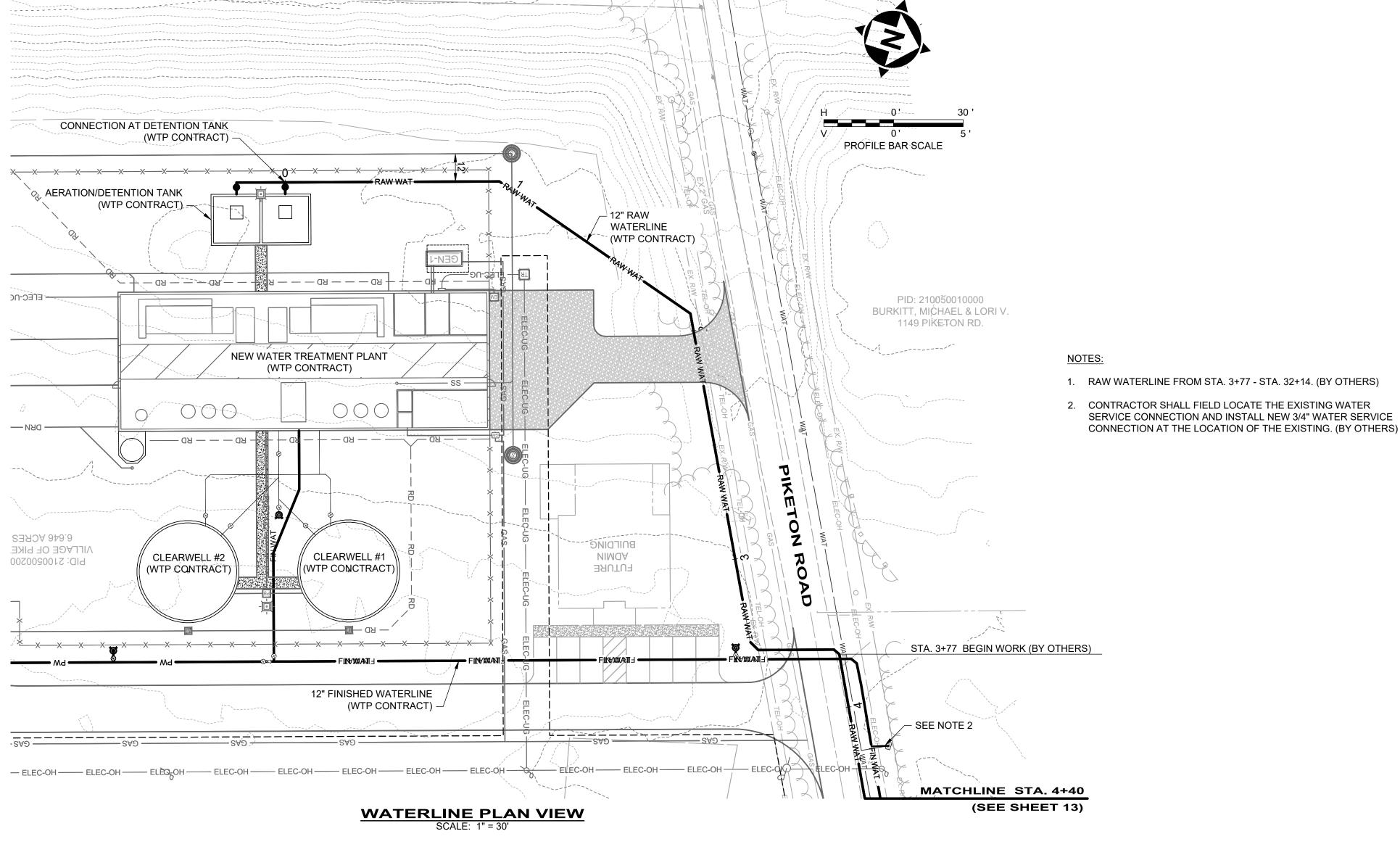
SURVEY STATIONING

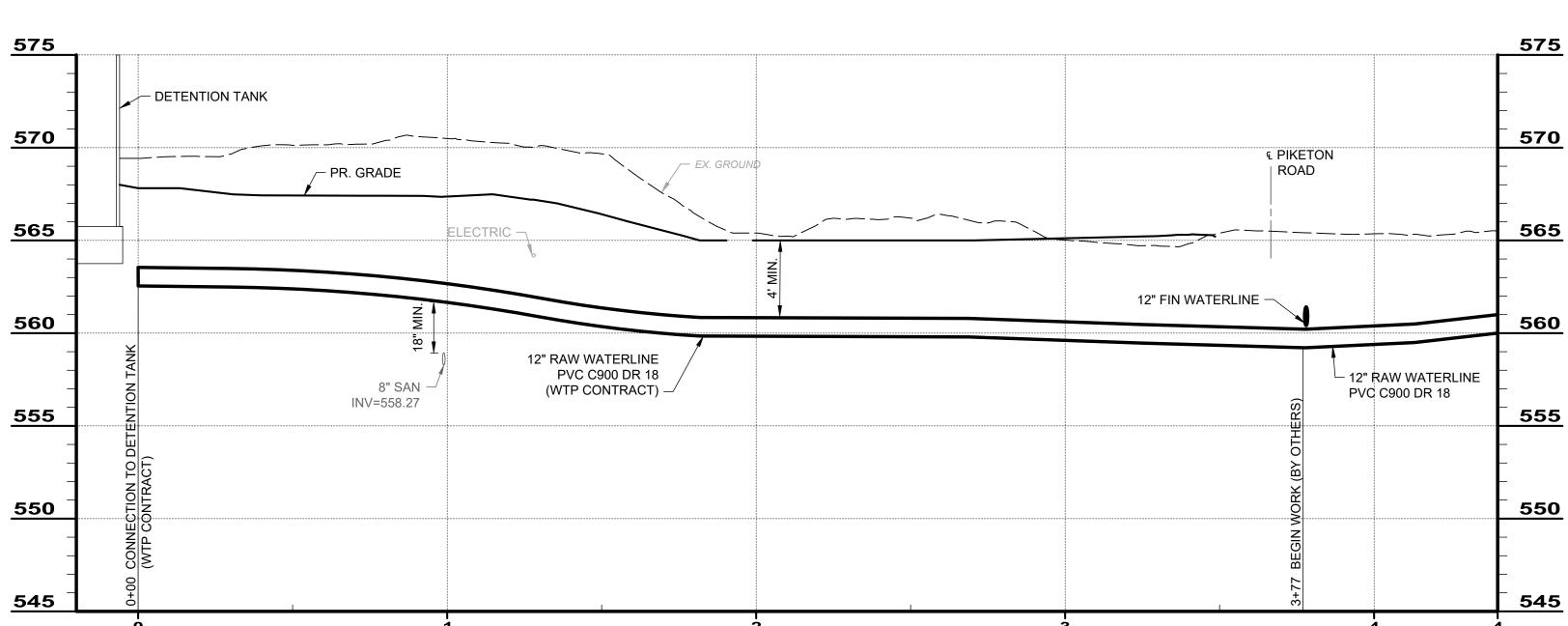




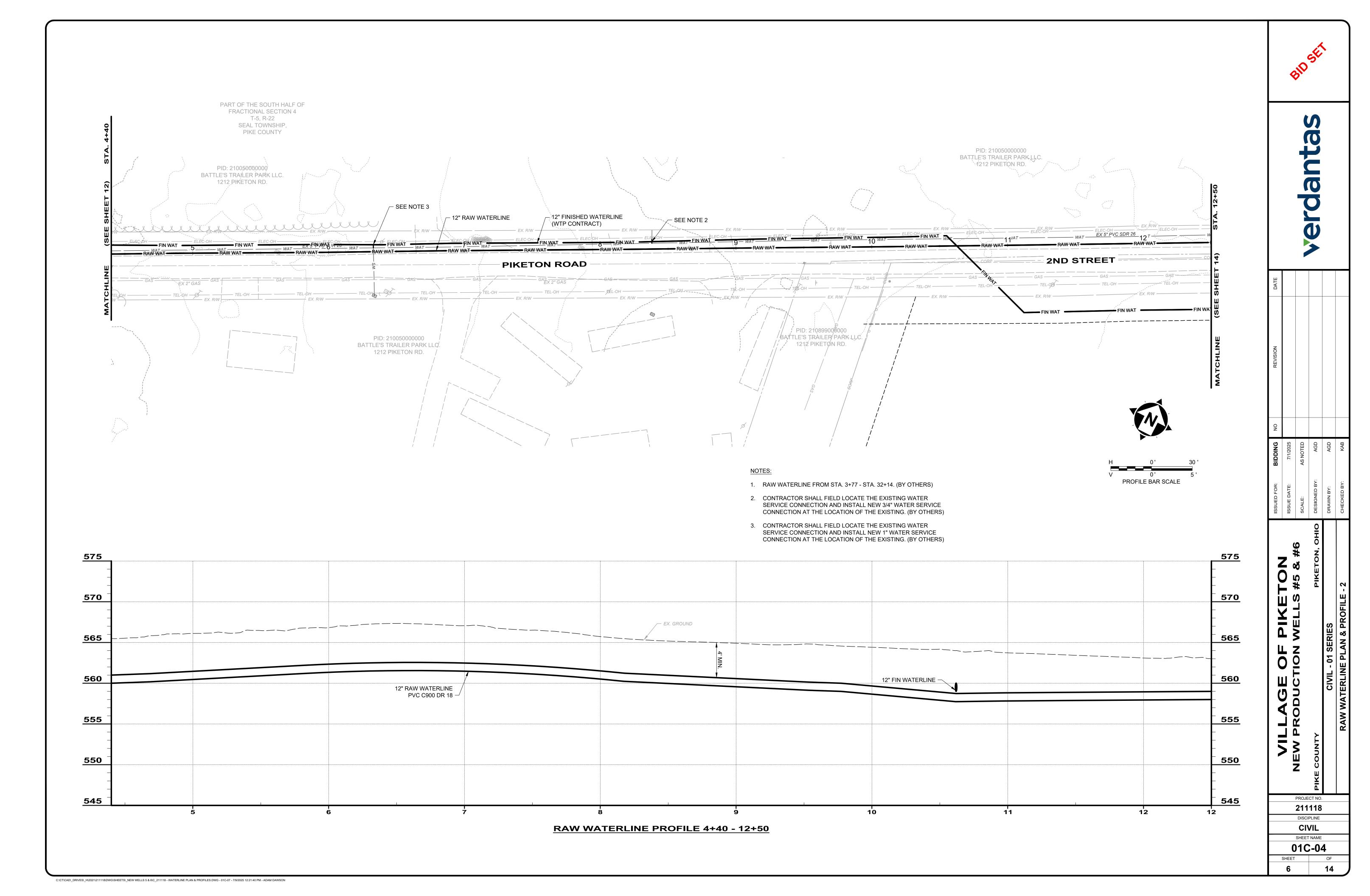
	NEW PRODUCTION WE PIKE COUNTY CIVIL - 01 SERIES RAW WATERLINE PLAN & PI		SCALE: AS N TELES #3 & #6 SCALE: AS N	PIKETON, OHIO DESIGNED BY:	SERIES DRAWN BY:	WATERLINE PLAN & PROFILE - 1
--	---	--	---------------------------------------	----------------------------	------------------	------------------------------

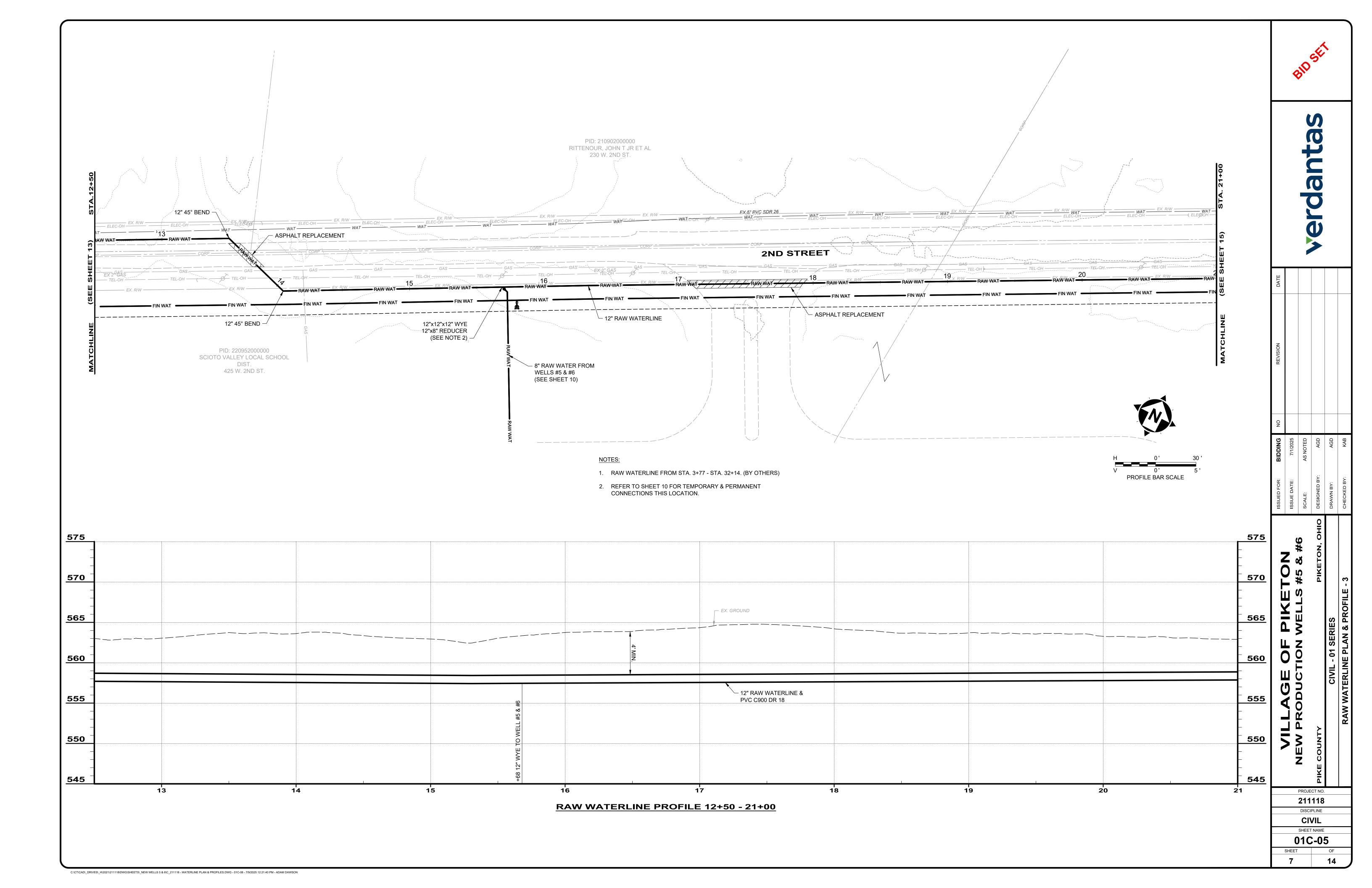
SHEET NAME 01C-03

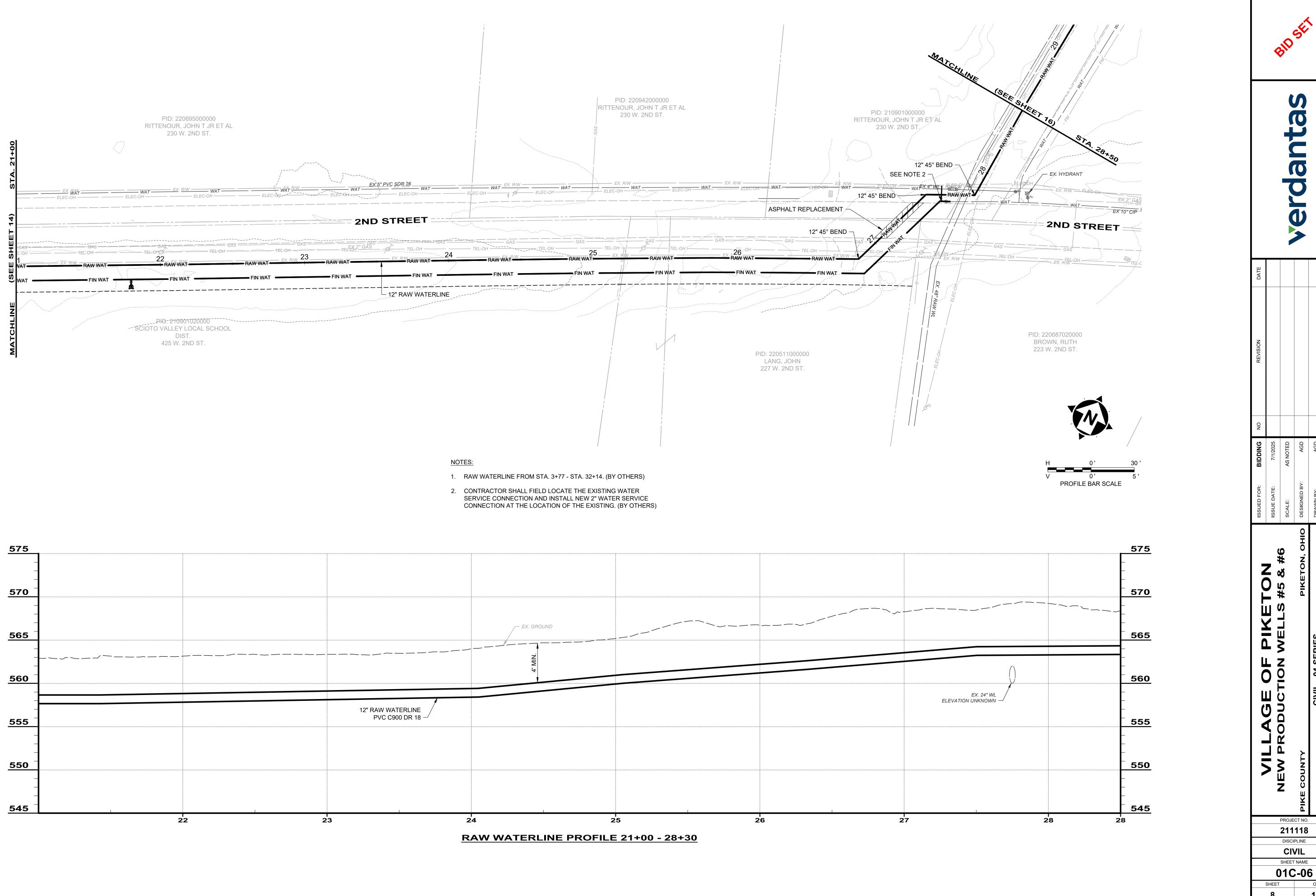




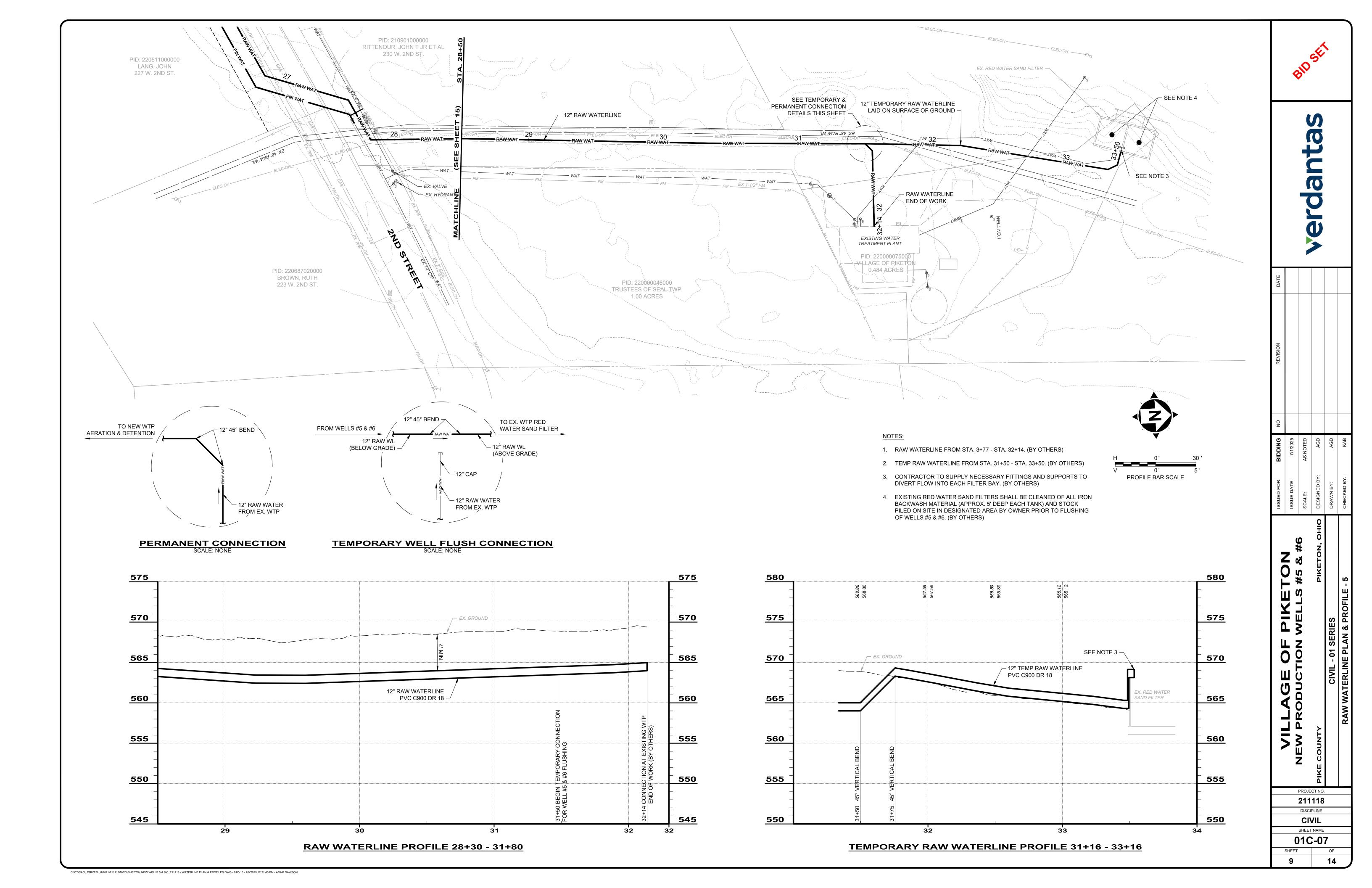
RAW WATERLINE PROFILE 0+00 - 4+40

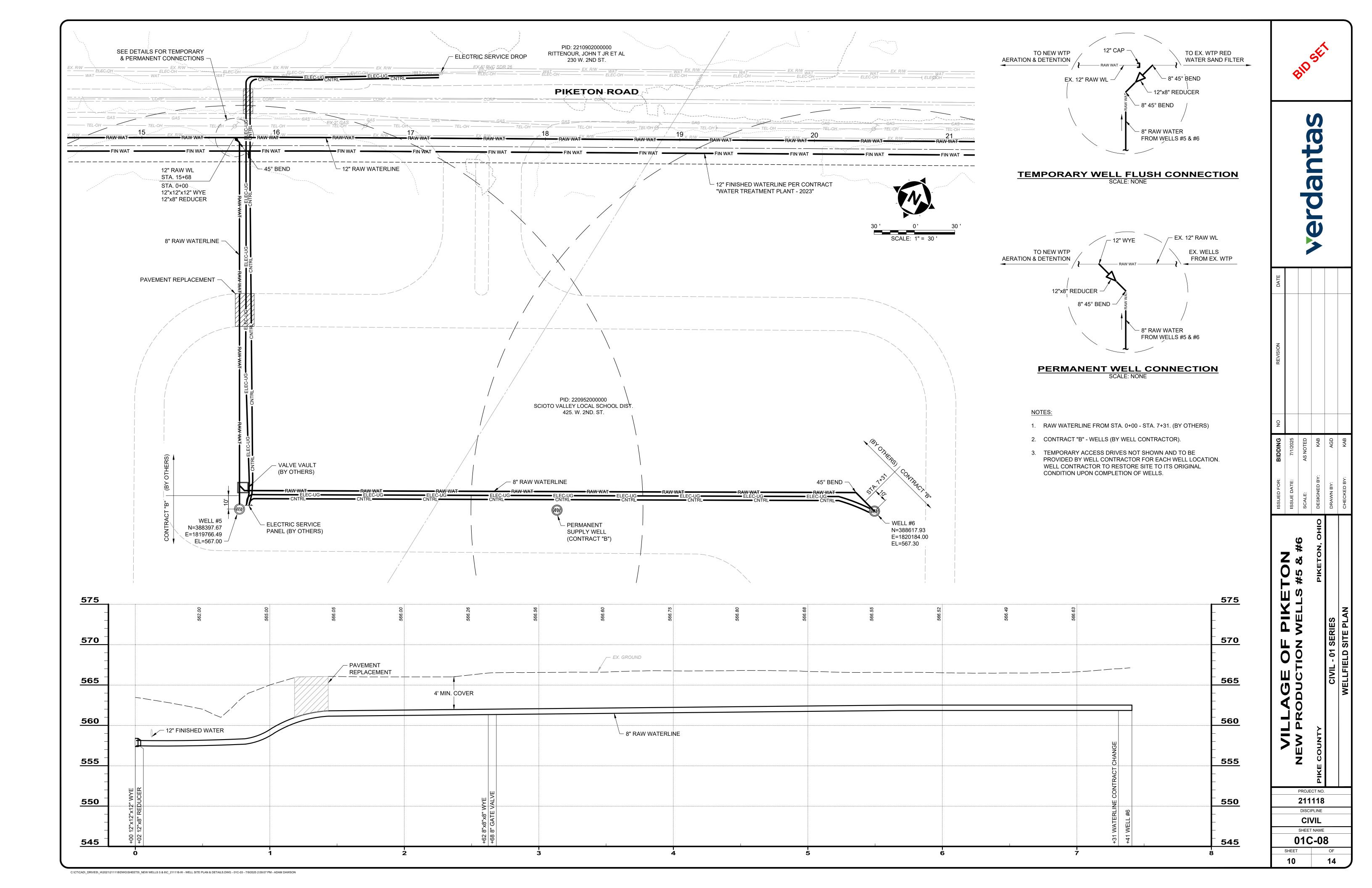


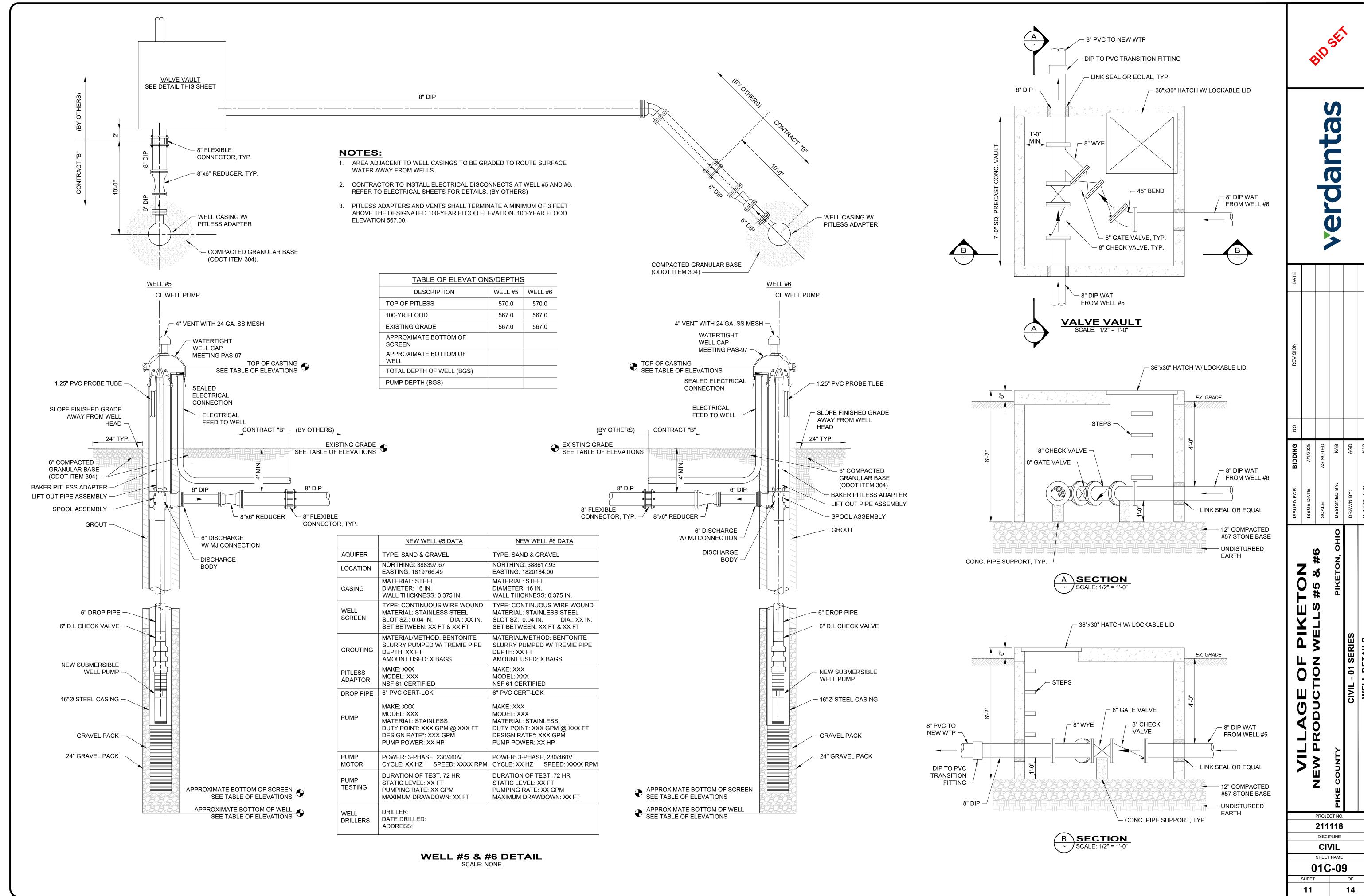




				ISSUE DATE:	7/1/2025	
SHEET	DISCI	PROJE 211	NEW PRODUCION WELLS #5 4	SCALE:	AS NOTED	
NAME		CT NO.	PIKE COUNTY PIKETON, OHIO	DESIGNED BY:	AGD	
<u> </u>			CIVIL - 01 SERIES	DRAWN BY:	AGD	
			NAMED INFO DOCUMENT AND SECOND AN	CHECKED BV.	KAB	

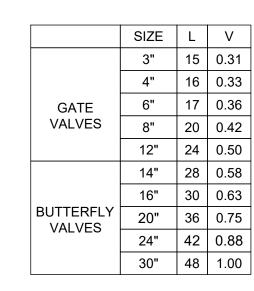






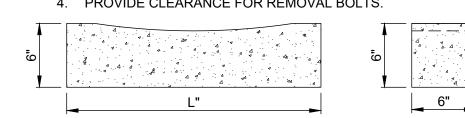
C:\CT\CAD\ DRIVES\ H\2021\211118\DWG\SHEETS\ NEW WELLS 5 & 6\C 211118-W - WELL SITE PLAN & DETAILS.DWG - 01C-04 - 7/9/2025 2:09:07 PM - ADAM DAWSON

TRENCH DETAIL FOR WATERLINE **INSTALLED IN NON-PAVED AREAS** NOT TO SCALE

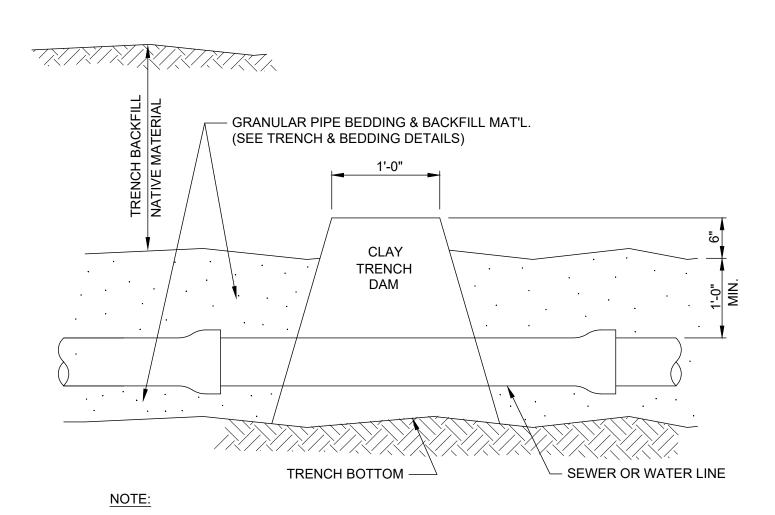


V = VOLUME OF CONCRETE IN CUBIC FEET

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



CONCRETE VALVE SUPPORTS NOT TO SCALE



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

1. TYPE A, SHALL BE COMPACTED GRANULAR MATERIAL AS SPECIFIED IN ODOT CMS ITEM

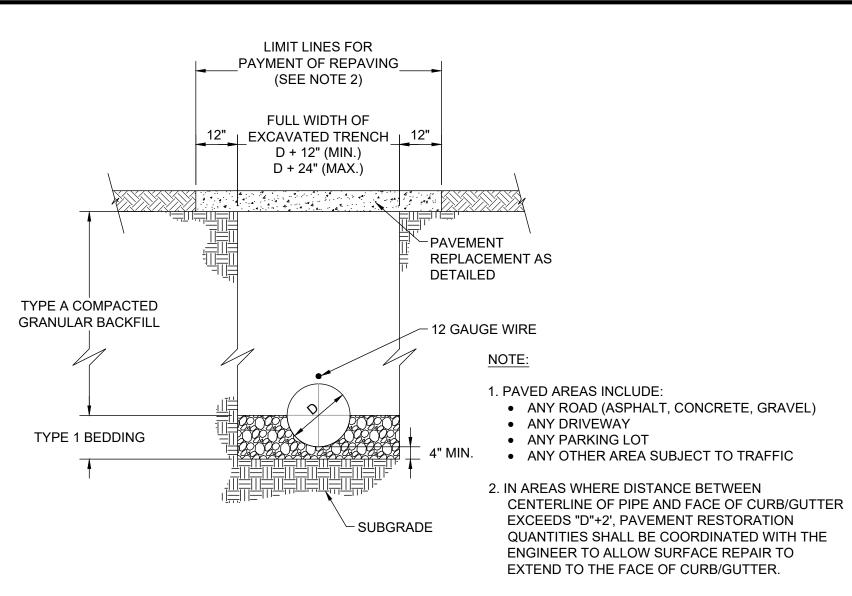
- 2. TYPE B SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 2 INCHES ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH OR FROZEN MATERIAL.
- 3. TYPE C SHALL BE LOW STRENGTH MORTAR BACKFILL, TYPE 1 AS SPECIFIED IN ODOT CMS ITEM 613.

BEDDING:

BACKFILL:

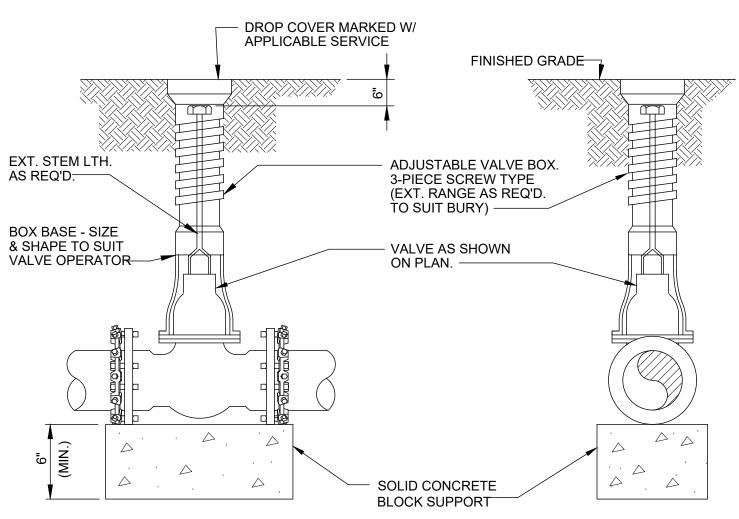
- 1. TYPE 1-GRANULAR MATERIAL No. 57,6,67,68 OR 7 PER ODOT CMS TABLE 703.01-1.
- 2. TYPE 2-NATIVE SOIL FREE FROM STONES LARGER THAN 2 INCHES ACROSS THEIR GREATEST DIMENSIONS, TOP SOIL, VEGETATION, DEBRIS OR FROZEN MATERIAL.
- 3. TYPE 3-CONCRETE BEDDING, CLASS QC1 CONCRETE PER ODOT CMS 499.

- 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.



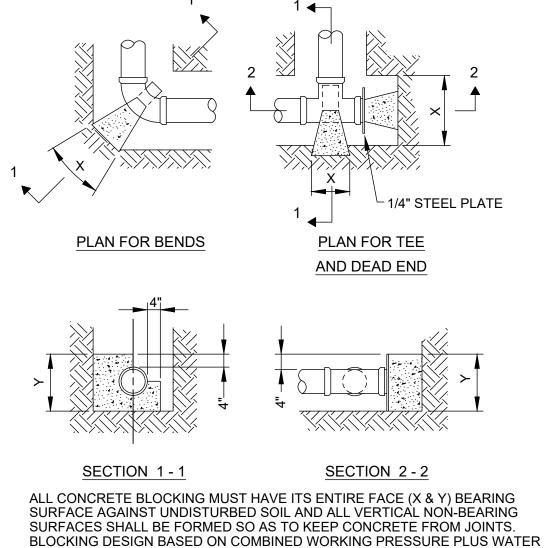
TRENCH DETAIL FOR WATERLINE INSTALLED **UNDER OR WITHIN 5' OF PAVED AREAS**

NOT TO SCALE



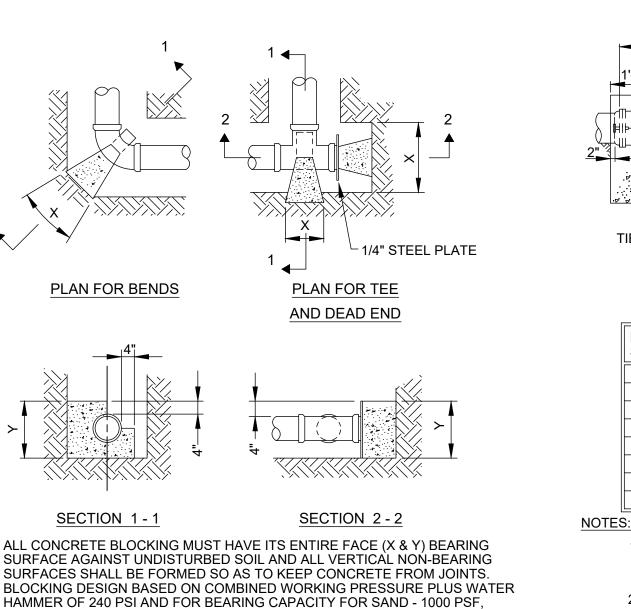
TYPICAL VALVE AND VALVE BOX SETTING NOT TO SCALE

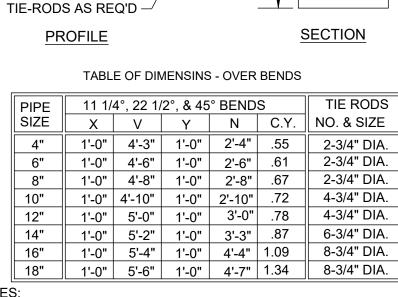
SIZI	NG SCH	HEDULE			CE (X Y) IN VOLUME IN	
PIPE SIZE	E SOIL BEARING CAPACITY SOIL BEARING CAPACIT					
4	1.40 0.14	0.46	0.26 0.06	2.70 0.12	0.90 0.06	0.54 0.06
6	2.80	0.93 0.10	0.56 0.07	5.50 0.15	1.83 0.10	1.10 0.07
8	4.80	1.60 0.13	0.96	9.60 0.23	3.20 0.15	1.92
10	7.90	2.63	1.96	15.70	5.23	3.14
	0.53	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 EARING CA 3000 P.S.F.			OR DEAD EARING CA 3000 P.S.F.	PACITY
4	4.90 0.14	1.63 0.09	0.96	3.50 0.12	1.16 0.06	0.70
6	10.20 0.22	3.40 0.14	2.04 0.09	7.20 0.17	2.40 0.11	1.44
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	<u>55.80</u>	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



SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.

THRUST BLOCKING DETAIL NOT TO SCALE





– GALVINIZED

TIE RODS

- ANCHOR BLOCK

SEE SECTION

CURB STOP -

SPLICES: LOOP WIRE

AND TIE INTO KNOT.

CONNECT WITH WIRE

SPLICE CONNECTOR

TRACER WIRE

SHALL BE WRAPPED AROUND BOLTS ON

FITTINGS (TYP) —

NUT AND DIRECT BURIAL

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.



TOP OF TRACER WIRE TUBE FLUSH WITH

GROUND LAP WIRE 6 INCHES OVER

OUTSIDE OF TUBE AND SECURE TOP WITH 1-1/2" PVC CAP FLUSH WITH GRADE

VALVE BOX, CURB BOX OR HYDRANT BARREL

FASTEN TUBE TO VALVE BOX IN 3 LOCATIONS WITH NYLON

NOTES:

1. TRACER WIRE SHALL BE 12 GAUGE

BRING WIRE TO SURFACE AT ALL

LOCATED MORE THAN 50 FEET

SERVICE LINE IS ROUTED.

3. INSTALL TRACER WIRE ON FIRE

HYDRANT LATERAL PIPE WHERE

THE FIRE HYDRANT IS MORE THAN

50 FEET FROM THE MAIN LINE, OR

- HYDRANT TEE

FASTEN TRACER WIRE TO TOP

LOCATIONS WITH PLASTIC TAPE

EACH PIPE SECTION IN TWO

REIN'F. FOR SAG BENDS

45° BEND-#4 @ 6" C/C

11 1/4° BEND-NO BLK'G. REQ'D.

22 1/2° BEND-2 #4 EQ. SPC'D.

THRUST

TABEL OF DIMENSIONS - SAG BENDS

BLOCKING

SIZE | A | W | C.Y. | A | W | C.Y.

4" || — | — | — | — | — | —

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" | 2'-9" | 0.09 | 1'-8" | 3'-2" | 0.28

16" 0'-9" 3'-4" 0.14 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

AT 3000 P.S.I.

PRESSURE OF WATER HAMMER AND SOIL BEARING

__________________O'-8" 1'-8" 0.05

<u>SECTION</u>

WHEN THE LATERAL CHANGES

VALVES AND AT ALL CURB STOPS

FROM THE MAIN LINE OR WHEN THE

SOLID COPPER WIRE WITH INSULATION JACKET. AS PER

SPECIFICATIONS.

DIRECTION.

INSTALL TRACER WIRES INSIDE OF

OR STAINLESS STEEL STRAPS

1 INCH DIA. PE TUBE

SERVICE LINE

PIPE AND FITTING

TRACER WIRE

NOT TO SCALE

HYDRANT BARREL -

verdantas	

FOR: BIDDING NO	ATE: 7/1/2025	AS NOTED	:D BY: KAB	3Y: AGD	D BY: KAB
ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	:\В СНЕСКЕР ВУ:
			0		

PROJECT NO.

211118

DISCIPLINE

CIVIL

SHEET NAME

01C-10

OVER & SAG BEND THRUST BLOCKING DETAILS NOT TO SCALE

PRIMAR\

PRESSURE SWITCH

WATERPROOF

LIMIT SWITCH

ELECTRICAL GENERAL NOTES:

- 1. 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
- 2. 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.
- 3. ELECTRICIAN TO VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BID.
- 4. 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.
- 6. 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.
- 7. 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
- 8. 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.
- 9. 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. A. #14, #12, AND #10 AWG CONDUCTORS SHALL BE "THHN/THWN".
 - B. #8 AND LARGER SHALL BE STRANDED "THHN/THWN".
- 10. 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)
- 11. 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.
- 12. 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.
- 13. 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.
- 14. THE ELECTRICIAN SHALL BE HELD RESPONSIBLE TO ENSURE ALL CONTROLLERS TO BE INSTALLED ARE CAPABLE OF LOCKOUT / TAGOUT PRIOR TO INSTALLATION.
- 15. 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.
- 16. ALL LIGHTING AND RECEPTACLE WIRING TO BE #12 XHHW WITH EQUIPMENT GROUND IN 3/4" C UNLESS OTHERWISE NOTED.
- NORMAL LIGHTING DISTRIBUTION. 18. SIZE JUNCTION BOXES AS REQUIRED PER NEC. PROVIDE BARRIER TYPE TERMINAL STRIPS, AND ALL WIRING TO
- 19. SIZE PULL BOXES (PB) AS REQUIRED PER NEC.
- PROVIDE SEPARATE PB'S FOR CONTROL AND POWER.
- 21. MOTOR OVERLOAD SETTING SHALL BE FIELD SELECTED PER MOTOR NAME PLATE CURRENT AND INSTALLED ACCORDINGLY.
- 22. 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).
- 23. 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.



O

PROJECT NO.

211118

DISCIPLINE

ELECTRICAL

SHEET NAME

E-01

ELECTRIC TRANSFORMER

HERTZ

PROJECT NO.

FINISHED GRADE

- SUITABLE BACKFILL

ELECTRICAL WARNING

2" SCHEDULE 40 PVC

CONDUITS. NUMBER OF CONDUITS AS INDICATED

WATERLINE

TRENCH

WATERLINE

- CONCRETE

ON DRAWING

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

ELECTRICAL TRENCH DETAIL

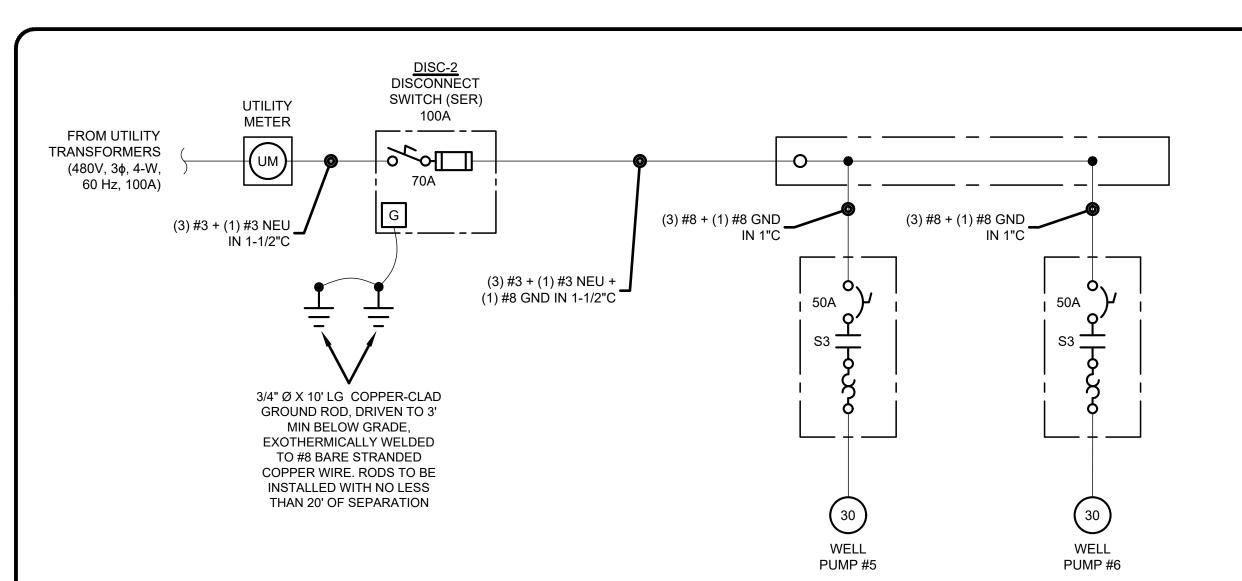
NOT TO SCALE

UNDISTURBED

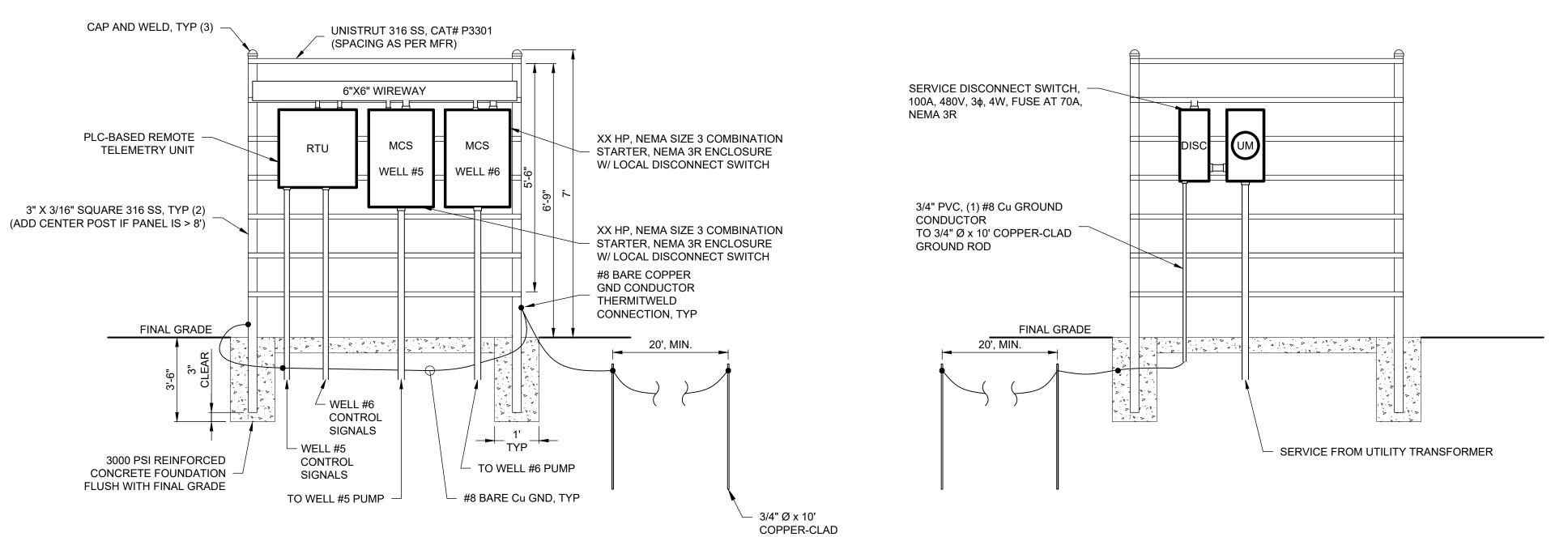
ROCK OR SOIL

211118 DISCIPLINE **ELECTRICAL** SHEET NAME

E-02



WELL SITES #5 & #6 ONE-LINE DIAGRAM



GROUND ROD, TYP 1. ELECTRICAL EQUIPMENT, PANELS, CONDUIT AND WIRING TO BE INSTALLED UNDER RAW WATERLINE CONTRACT (BY OTHERS).

ELECTRICAL EQUIPMENT BACKBOARD DETAIL NOT TO SCALE