



GENERAL NOTES:

1. THE SITE IS LOCATED IN THE TOWN OF SCITUATE ON ASSESSORS MAP 33 LOTS 14 & 127
2. THE SITE IS APPROXIMATELY 46.9± ACRES AND IS ZONED RR-120.
3. THE OWNERS OF LOT 14 IS: SCITUATE SCHOOL DEPARTMENT
3 GEORGE WASHINGTON HWY
CLAYVILLE, RI 02815

THE OWNER OF LOT 33 IS: HOUSING AUTHORITY OF THE TOWN OF SCITUATE
104 ROCKLAND ROAD
NORTH SCITUATE, RI 02857
4. THE THE SITE IS LOCATED IN FEMA ZONE X - AREAS WHERE THERE IS MINIMAL FLOODING. (44007C0280G EFFECTIVE DATE 3/2/2009). NO FEMA LINES HAVE BEEN SHOWN ON THIS PLAN.
5. WETLANDS ARE PRESENT ONSITE AND SHOWN ON THIS PLAN. WETLANDS SHOWN HAVE BEEN DELINEATED IN SELECTED AREAS BY AVIZINIS ENVIRONMENTAL SERVICES INC IN 4/18/2023 REPORT. REPORT ENCLOSED FOR REVIEW AND AVAILABLE UPON REQUEST.
6. THE TOPOGRAPHY SHOWN ON PLANS IS THE RESULT OF LIDAR DATA FROM THE 1887 - 2016 USGS CONED TOPOBATHY DEM (COMPILED 2016): NEW ENGLAND
7. TOPOGRAPHY IS SHOWN IN 5-FT CONTOUR INTERVAL.
8. THE PROPERTY LINE SHOWN ON PLANS IS THE RESULT OF A COMPILATION OF BEST AVAILABLE SOURCES INCLUDING ASSESSOR MAPS AND GIS RESOURCES.
9. LOCATION OF UNDERGROUND STRUCTURES AND UTILITIES SHALL BE VERIFIED BY CONTRACTOR IN FIELD.
10. THE AERIAL PHOTOGRAPHY SHOWN ON THIS PLAN IS A COMBINATION OF MULTIPLE NON-ORTHO CORRECTED AERIAL IMAGERY FROM COMPILATION OF BEST AVAILABLE SOURCES INCLUDING RIGIS AND THE RIDEM GIS MAPPING.
11. ALL EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN IS APPROXIMATE AND WAS TAKEN FROM A VARIETY OF BEST AVAILABLE SOURCES AND FIELD INVESTIGATIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND MAINTAINING UTILITY SERVICE TO SCHOOL AND ROCKLAND OAKS HOUSING.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 23 2024 FILE #: 24-0167
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

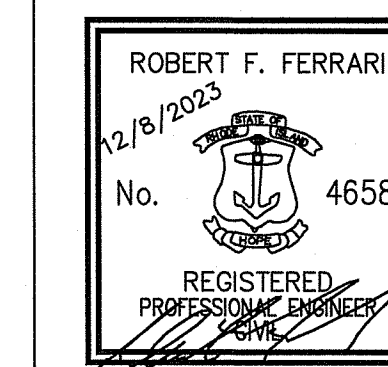
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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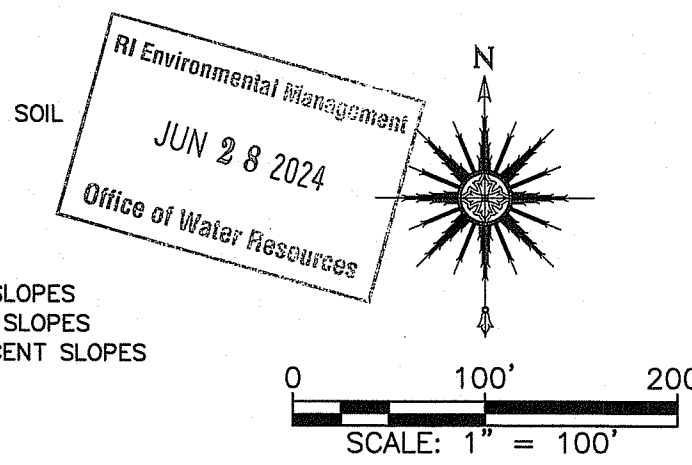
SOIL MAPPING

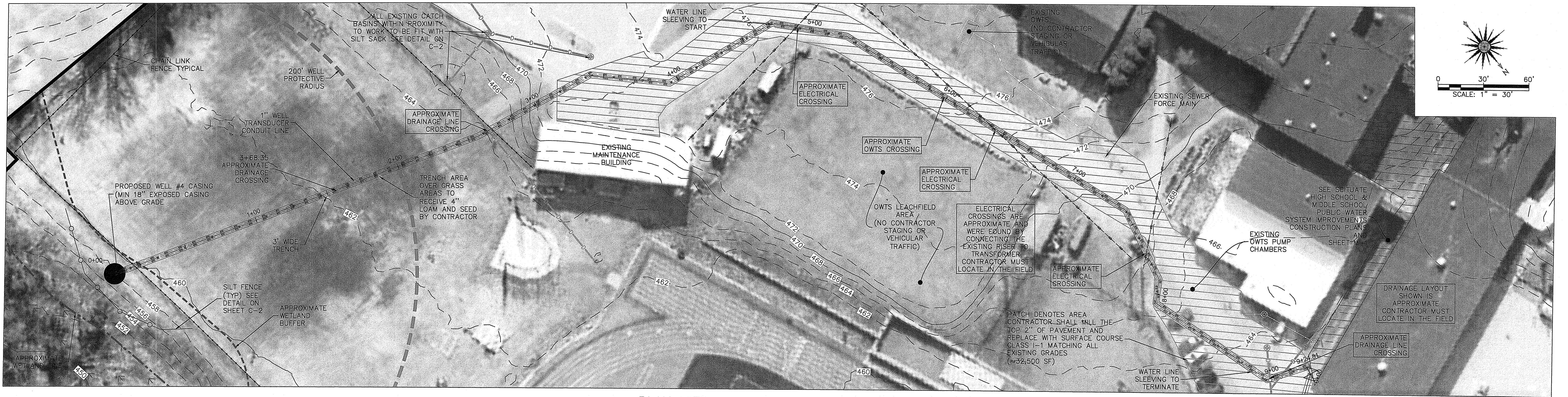
SOIL MAPPING OBTAINED FROM RIGIS. SOIL GEOGRAPHIC DATA DEVELOPED BY THE RHODE ISLAND SOIL SURVEY PROGRAM AND USDA)
SOIL NAME DESCRIPTION
ChC CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 8 TO 15 PERCENT SLOPES
ChD CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 15 TO 25 PERCENT SLOPES
CkC CANTON AND CHARLTON EXTREMELY STONY FINE SANDY LOAMS, 3 TO 15 PERCENT SLOPES
PbB PAXTON VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES
WoB WOODBRIDGE VERY STONY FINE SANDY LOAM, 0 TO 8 PERCENT SLOPES
UD UDORTHERTS-URBAN LAND COMPLEX



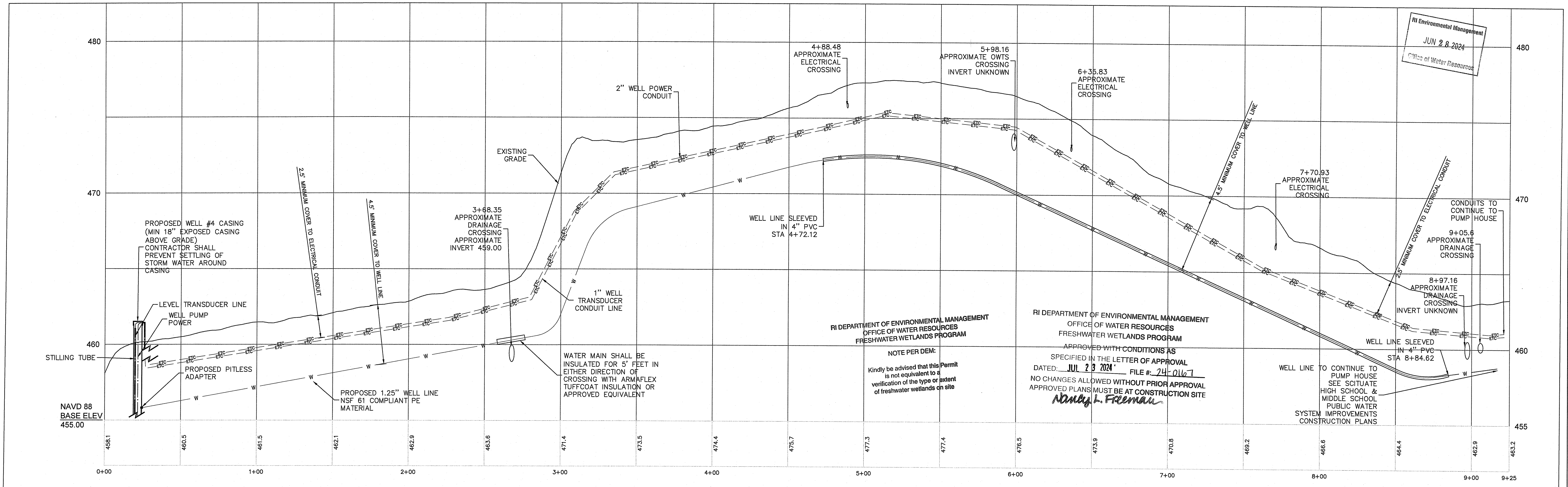
567 SOUTH COUNTY TRAIL, SUITE 114 DEXTER, RI 02822
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REVISION	DATE	DESCRIPTION	BY	APP
		SHEET		
		EXISTING CONDITIONS PLAN		DATE 11/30/23
		CLIENT SCITUATE HOUSING AUTHORITY 104 ROCKLAND ROAD #1 SCITUATE, RI 02857		DRAWN BY SEK
		PROJECT ROCKLAND OAKS PUBLIC WATER SYSTEM IMPROVEMENTS		DESIGNED SEK
				CHECKED RFF
				APPROVED RFF
				SHEET C-1





PLAN VIEW OF WELL SUPPLY LINE PATH

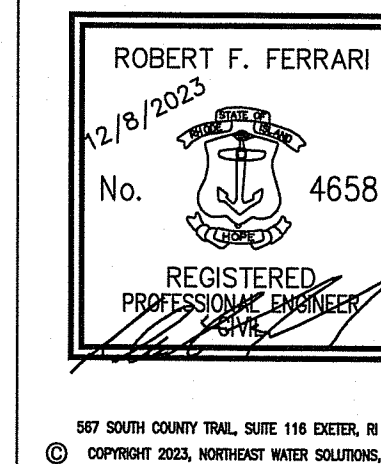


PLAN AND PROFILE GENERAL NOTES:

- ALL EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE AND WAS DETERMINED THROUGH A SERIES OF BEST AVAILABLE RESOURCES. CONTRACTOR MUST VERIFY ALL UTILITY INFORMATION IN THE FIELD AND DOCUMENT ALL CROSSINGS.
- THE CONTRACTOR SHALL FOLLOW ALL STATE, LOCAL, AND FEDERAL REGULATION FOR THE INSTALLATION OF WATER LINE AND ELECTRICAL CONDUITS.
- HANDHOLD (PULL HOLES) ARE NOT SHOWN ON THIS PLAN AND SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED BY ELECTRICAL CODE AND FOR INSTALLATION.
- WELL INSTALLATION SHALL FOLLOW ALL REQUIREMENTS LISTED IN 216-RICR-50-05-1.

PROFILE VIEW OF WELL SUPPLY LINE PATH

VERTICAL 1"=2'
HORIZONTAL 1"=30'



REVISION	DATE	DESCRIPTION	BY	APP
SHEET		PLAN AND PROFILE-1	DATE	11/30/23
CLIENT		SCITUATE HOUSING AUTHORITY 104 ROCKLAND ROAD #1 SCITUATE, RI 02857	DESIGNED	SEK
PROJECT		ROCKLAND OAKS PUBLIC WATER SYSTEM IMPROVEMENTS	CHECKED	RFF
			APPROVED	RFF
			SHEET	C-4

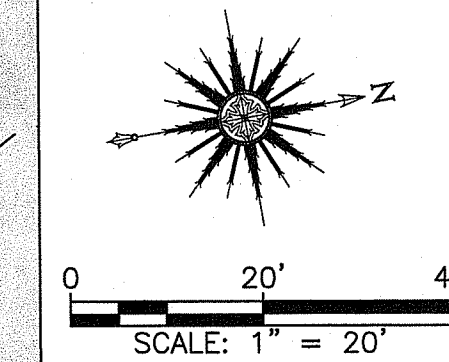
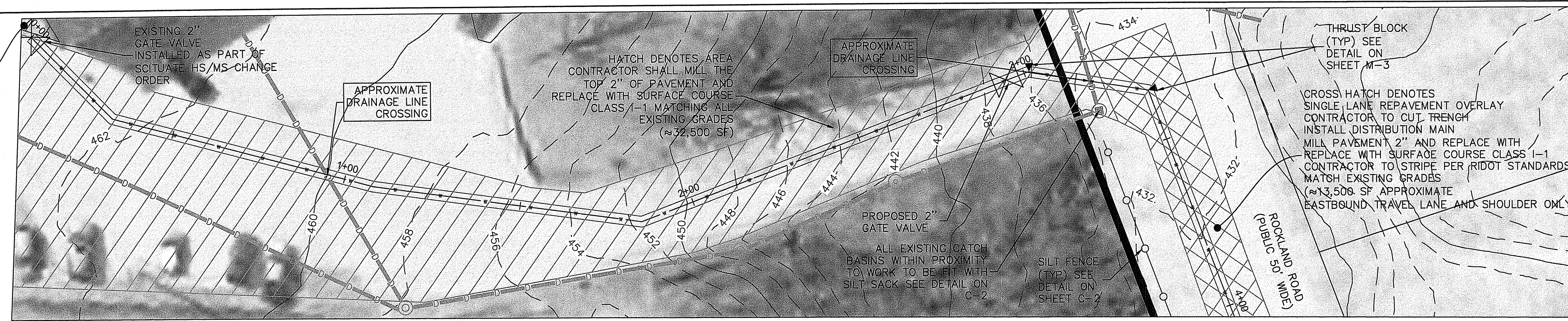
RI Environmental Management
JUN 28 2024
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Nancy L. Freeman

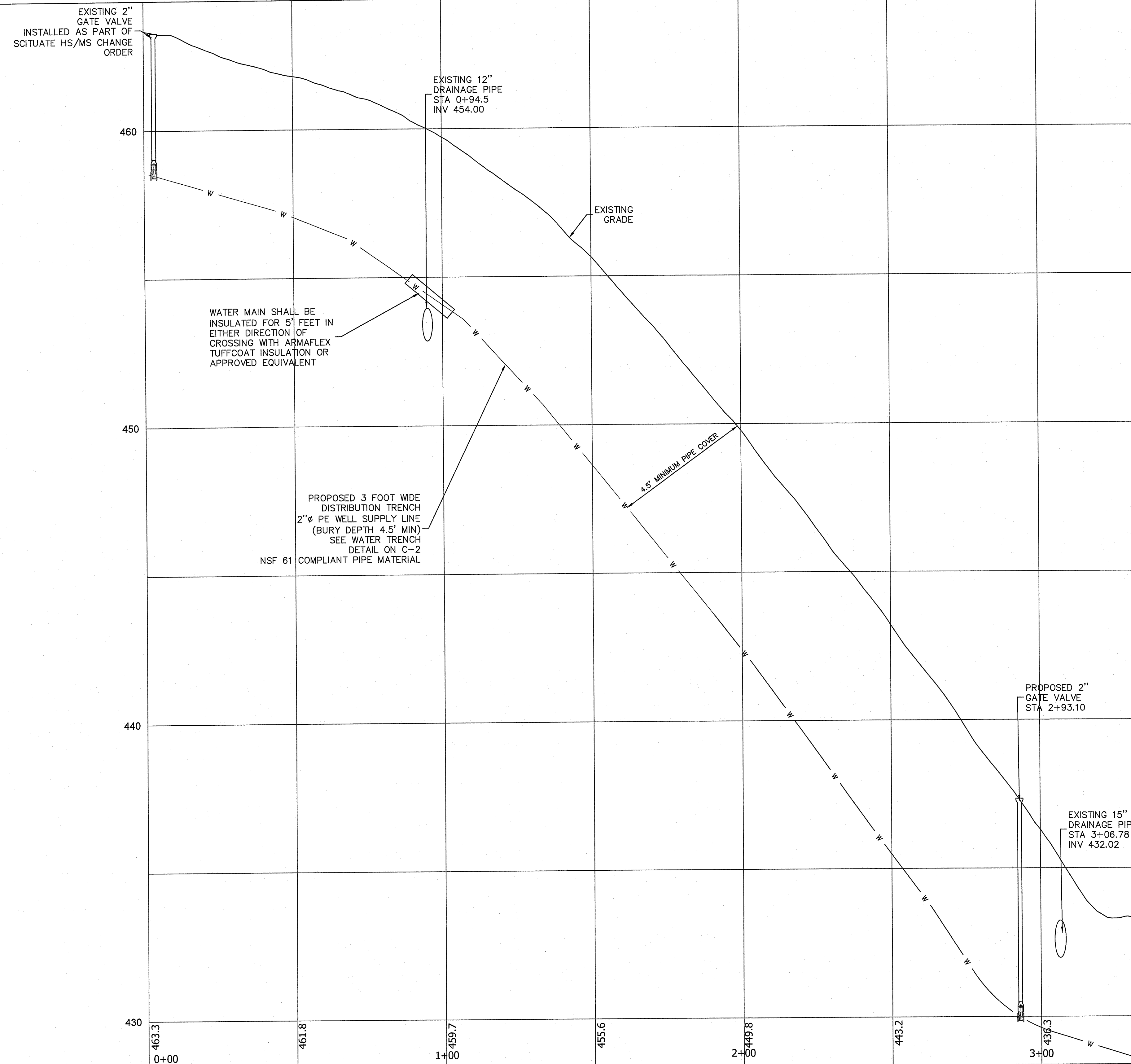
NOTE PER DEM:
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WATER MAIN SHALL BE INSULATED FOR 5' FEET IN EITHER DIRECTION OF CROSSING WITH ARMAFLEX TUFFCOAT INSULATION OR APPROVED EQUIVALENT

SEE SCITUATE HIGH SCHOOL & MIDDLE SCHOOL PUBLIC WATER SYSTEM IMPROVEMENTS CONSTRUCTION PLANS AND SHEET M-1



PLAN VIEW OF ROCKLAND OAKS DISTRIBUTION LINE



PLAN AND PROFILE GENERAL NOTES:

1. ALL EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE AND WAS DETERMINED THROUGH A SERIES OF BEST AVAILABLE RESOURCES. CONTRACTOR MUST VERIFY ALL UTILITY INFORMATION IN THE FIELD AND DOCUMENT ALL CROSSINGS.
2. THE CONTRACTOR SHALL FOLLOW ALL STATE, LOCAL, AND FEDERAL REGULATION FOR THE INSTALLATION OF WATER LINE.

RI Environmental Management
JUN 28 2024
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Nancy L. Freeman

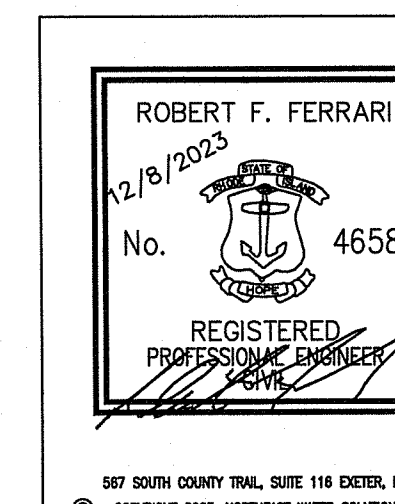
PROFILE VIEW OF WELL SUPPLY LINE PATH

VERTICAL 1"=2'
HORIZONTAL 1"=20'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

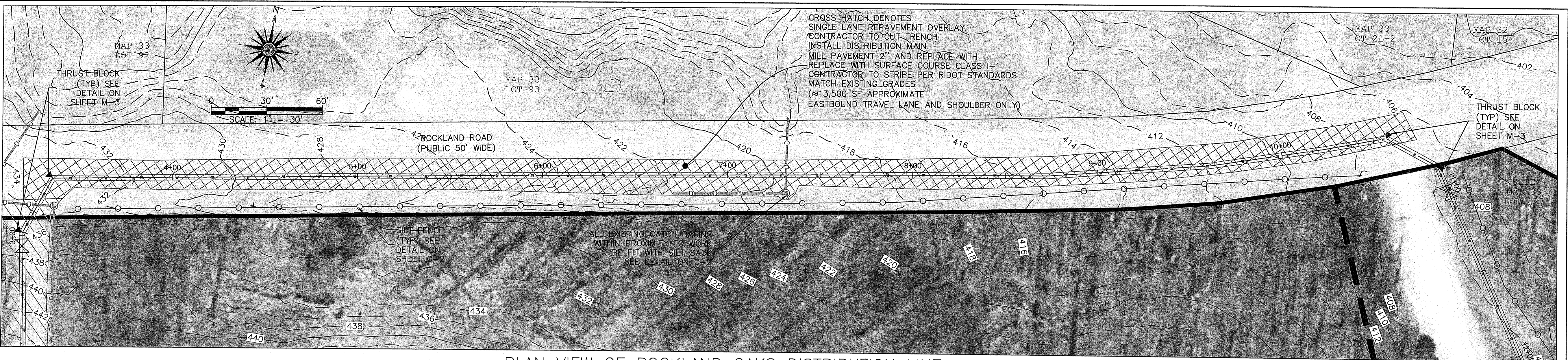
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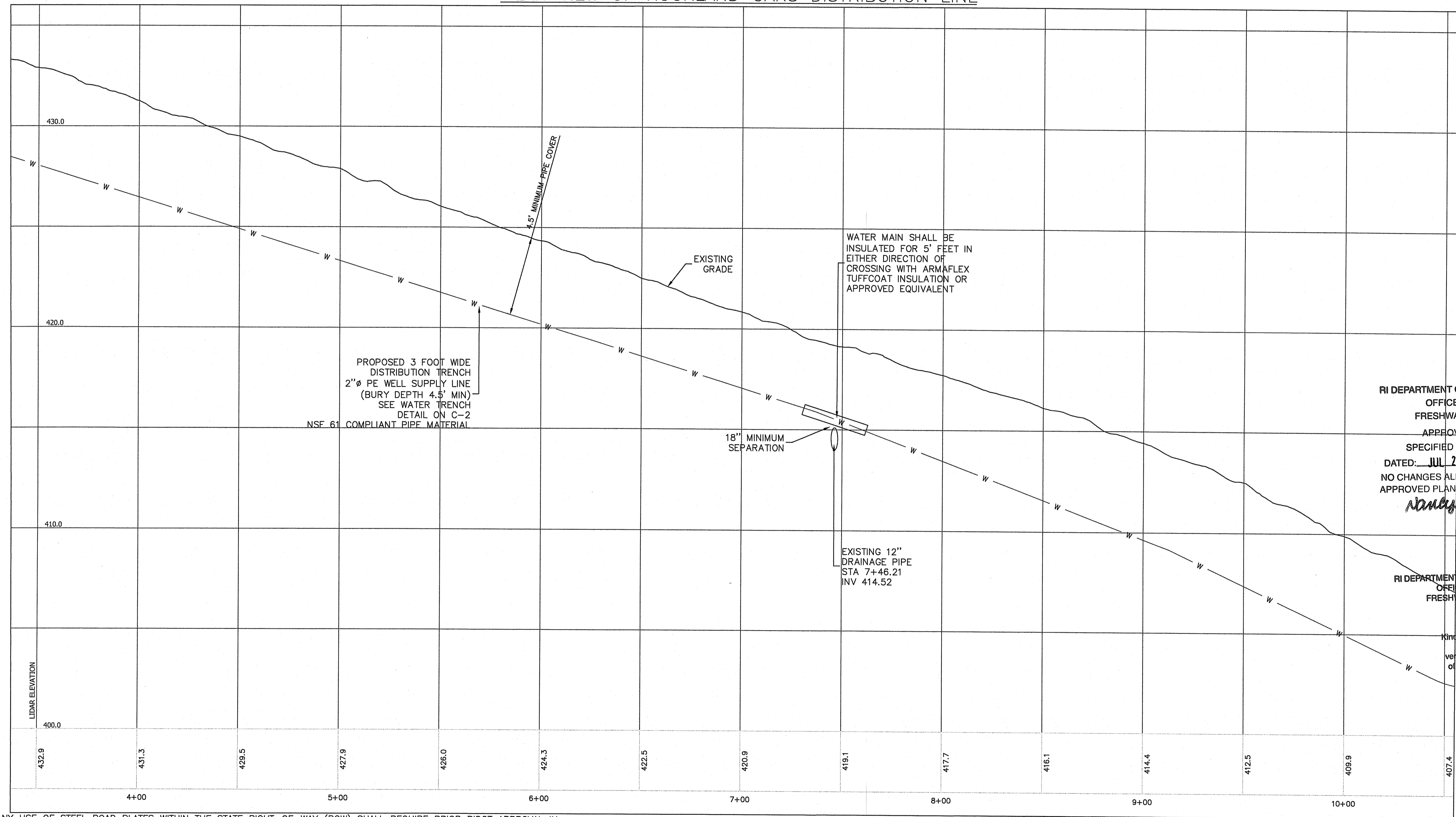
REVISION	DATE	DESCRIPTION	BY	APP
		SHEET PLAN AND PROFILE-2		DATE 11/30/23
		CLIENT SCITUATE HOUSING AUTHORITY 104 ROCKLAND ROAD #1 SCITUATE, RI 02857		DRAWN BY SEK
		PROJECT ROCKLAND OAKS PUBLIC WATER SYSTEM IMPROVEMENTS		DESIGNED SEK
				CHECKED RFF
				APPROVED RFF
				SHEET C-5

STATE ROW PLAN AND PROFILE GENERAL NOTES:

- ALL EXISTING UTILITY INFORMATION SHOWN IS APPROXIMATE AND WAS DETERMINED THROUGH A SERIES OF BEST AVAILABLE RESOURCES. CONTRACTOR MUST VERIFY ALL UTILITY INFORMATION IN THE FIELD AND DOCUMENT ALL CROSSINGS.
- THE CONTRACTOR SHALL FOLLOW ALL STATE, LOCAL, AND FEDERAL REGULATION FOR THE INSTALLATION OF WATER LINE.
- ALL STRUCTURES WITHIN THE LIMITS OF RESTORATION SHALL BE ADJUSTED TO FINAL GRADE AND PITCH OF THE ROADWAY PRIOR TO FINAL PAVEMENT RESTORATION. IT IS THE RESPONSIBILITY OF THE PERMITTEE AND UTILITY OWNER TO COORDINATE WITH OTHER UTILITY STRUCTURE OWNERS IN ORDER TO GET ALL STRUCTURES ADJUSTED TO FINAL GRADE.
- FINAL PAVEMENT RESTORATION OF THE ROADWAY SHALL INCLUDE TWO (2) INCHES OF MICROMILLING AND RESURFACING ALL IMPACTED TRAVEL LANES AND/OR SHOULDERS FOR THEIR FULL WIDTH USING MODIFIED CLASS 12.5 HMA SURFACE COURSE FROM A RIDOT APPROVED ASPHALT PLANT AND IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS. IMPACTED TRAVEL LANES AND/OR SHOULDERS ARE THE ROADWAY PAVEMENT AREAS THAT THE UTILITY WORK TRENCHES AND/OR EXCAVATIONS ARE LOCATED WITHIN. IN ADDITION TO THE ROADWAY PAVEMENT AREAS IMPACTED BY THE UTILITY WORK TRENCHES AND/OR EXCAVATIONS, THIS FINAL PAVEMENT RESTORATION SHALL ALSO APPLY TO ALL TRAVEL LANES AND/OR SHOULDERS IMPACTED BY EITHER LATERAL OR LONGITUDINAL UTILITY WORK TRENCHES AND/OR EXCAVATIONS WHEN THE TRENCHES AND/OR EXCAVATIONS ARE LESS THAN OR EQUAL TO FIVE HUNDRED (500) FEET LONGITUDINAL FROM ONE ANOTHER, INCLUDING THE SECTIONS BETWEEN TRENCHES AND/OR EXCAVATIONS, SO THAT NO SECTION(S) OF ROADWAY PAVEMENT LESS THAN OR EQUAL TO FIVE HUNDRED (500) FEET SHALL REMAIN UNPAVED. THIS WILL PROVIDE A CONTINUOUS FINAL PAVEMENT BETWEEN THE UTILITY WORK TRENCHES AND/OR EXCAVATIONS. THE FINAL PAVEMENT RESTORATION AREA SHALL ALSO INCLUDE ANY AREAS, TRAVEL LANES AND/OR SHOULDERS DAMAGED EITHER DIRECTLY OR INDIRECTLY BY THE PERMIT WORK. RIDOT RESERVES THE RIGHT TO REVISE OR EXTEND THE FINAL PAVEMENT RESTORATION LIMITS UPON COMPLETION OF THE WORK. FURTHER REQUIREMENTS FOR MORE STRINGENT FINAL PAVEMENT RESTORATION (IF APPLICABLE) MAY BE SPECIFIED IN MORE DETAIL AS ADDITIONAL PERMIT SPECIFIC CONDITIONS.
- ASPHALT EMULSION TACK COAT SHALL BE APPLIED TO ALL VERTICAL AND HORIZONTAL PAVEMENT SURFACES PRIOR TO FINAL RESURFACING.
- PERMANENT PAVEMENT MARKINGS SHALL BE RESTORED IN THE SAME LOCATIONS AS ORIGINALLY LOCATED WITH EPOXY RESIN, IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS. PERMANENT EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED NO SOONER THAN TWO (2) WEEKS BUT NO LATER THAN FOUR (4) WEEKS FROM THE COMPLETION OF THE PAVING OPERATIONS.
- ANY PROPERTY DAMAGE CAUSED BY CONSTRUCTION ASSOCIATED WITH THIS PERMIT SHALL BE REPAIRED AND/OR REPLACED TO THE SATISFACTION OF THE STATE (RIDOT).
- ALL TRENCHES AND/OR EXCAVATIONS SHALL BE RE-SAWCUT, FULL DEPTH THROUGH THE PAVEMENT, ONE (1) FOOT MINIMUM CUTBACKS FROM ALL VERTICAL EDGES OF THE INITIAL UTILITY WORK TRENCHES AND/OR EXCAVATIONS PRIOR TO INSTALLING PERMANENT PAVEMENT. TRENCHES AND/OR EXCAVATIONS SHALL BE RECTANGULAR IN SHAPE AND ORIENTATED AS TO REDUCE THE EXPOSURE OF THE JOINTS TO THE WHEEL PATHS OF PASSING TRAFFIC. SAW CUTS SHALL NOT RESULT IN ANY OVERCUT CORNERS. ANY DAMAGED AREAS FROM SAW BLADES OUTSIDE THE BOUNDS OF THE TRENCHES AND/OR EXCAVATIONS SHALL BE RESTORED AS PART OF THE FINAL PAVEMENT RESTORATION.
- ASPHALT EMULSION TACK COAT SHALL BE APPLIED TO ALL VERTICAL AND HORIZONTAL PAVEMENT SURFACES PRIOR TO INSTALLING PERMANENT PAVEMENT.
- AT A MINIMUM, THE RESTORED PAVEMENT THICKNESS SHALL MATCH THE EXISTING DEPTH OF THE ROADWAY, OR EQUAL SIX (6) INCHES, WHICHEVER IS GREATER, OVER A MINIMUM TWELVE (12) INCHES OF COMPACTED GRAVEL SUBBASE TRIMMED AND FINE GRADED. CLASS 19 HMA BASE COURSE SHALL BE USED FROM A RIDOT APPROVED ASPHALT PLANT AND SHALL BE INSTALLED IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS. FURTHER REQUIREMENTS FOR RESTORED PAVEMENT THICKNESS AND CLASS(ES) HMA TO BE USED MAY BE SPECIFIED IN MORE DETAIL AS ADDITIONAL PERMIT SPECIFIC CONDITIONS.
- IT IS THE RESPONSIBILITY OF THE PERMITTEE TO DETERMINE THE PRESENCE OF CONCRETE ROAD BASE AT THE LOCATION OF THEIR OPERATION. IF CONCRETE BASE IS PRESENT IN THE ROADWAY, RESTORATION SHALL INCLUDE CLASS XX CONCRETE BASE IN KIND THICKNESS, 24-INCH #5 EPOXY COATED BARS DRILLED AND DOWELED INTO THE EXISTING CONCRETE BASE 18 INCHES ON CENTER, UTILIZING EITHER GROUT OR EPOXY, ALL IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, OVER A MINIMUM TWELVE (12) INCHES OF COMPACTED GRAVEL SUBBASE.
- THE FULL DEPTH PERMANENT PAVEMENT STRUCTURE TRENCH SHALL BE IN PLACE FOR A MINIMUM THIRTY (30) CALENDAR DAYS, AND FOR A MAXIMUM ONE (1) YEAR, PRIOR TO FINAL PAVEMENT RESTORATION.
- IMPACTED AND/OR DAMAGED ASPHALT DRIVEWAYS SHALL BE RESTORED/REPLACED FULL WIDTH USING CLASS 9.5 HMA.
- IMPACTED AND/OR DAMAGED CURBING SHALL BE REPLACED IN KIND AND RESET TO ORIGINAL GRADE. THE CURBING SHALL BE INSTALLED IN ACCORDANCE WITH RI STANDARD DETAIL 7.6.0.
- IMPACTED AND/OR DAMAGED LANDSCAPED AREAS SHALL BE LOAMED AND SEEDED IN ACCORDANCE WITH SECTION L (LANDSCAPING) OF THE RIDOT STANDARD SPECIFICATIONS.
- ALL STORM DRAIN INLETS AND CATCH BASINS MUST HAVE SEDIMENT CONTROL DEVICES INSTALLED IN ORDER TO PREVENT SOIL AND DEBRIS FROM ENTERING THE DRAINAGE SYSTEM PRIOR TO AND THROUGHOUT THE LIFE OF THE PROJECT. STORM DRAIN PROTECTION MUST BE CLEANED AS NECESSARY AND BE REMOVED AT THE END OF THE PROJECT AND PROPERLY DISPOSED OF OFFSITE.
- PERIMETER CONTROLS AND CONSTRUCTION ENTRANCES MUST BE INSTALLED FOR ANY STAGING AREAS UTILIZED AS PART OF THE OPERATION.
- DEWATERING OR DISCHARGING DIRECTLY OR INDIRECTLY INTO A STORM DRAIN IS PROHIBITED.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ROADWAY CLEAN AT ALL TIMES THROUGHOUT ALL OPERATIONS WITHIN THE STATE HIGHWAY RIGHT-OF-WAY. THIS INCLUDES MITIGATION OF CONSTRUCTION RUNOFF AND REGULAR SWEEPING OF THE ROADWAY.
- ALL UTILITIES MUST MAINTAIN A MINIMUM EIGHTEEN (18) INCH VERTICAL AND HORIZONTAL SEPARATION SPACING FROM ALL RIDOT FACILITIES, EDGE-TO-EDGE (DRAINAGE PIPES, CATCH BASINS AND INLETS, MANHOLES, FOUNDATIONS, ELECTRICAL CONDUIT, ETC.) WITHIN THE STATE HIGHWAY RIGHT-OF-WAY.



PLAN VIEW OF ROCKLAND OAKS DISTRIBUTION LINE



PROFILE VIEW OF WELL SUPPLY LINE PATH

VERTICAL 1"=2'
HORIZONTAL 1"=30'

RI Environmental Management
JUN 28 2024
Office of Water Resources

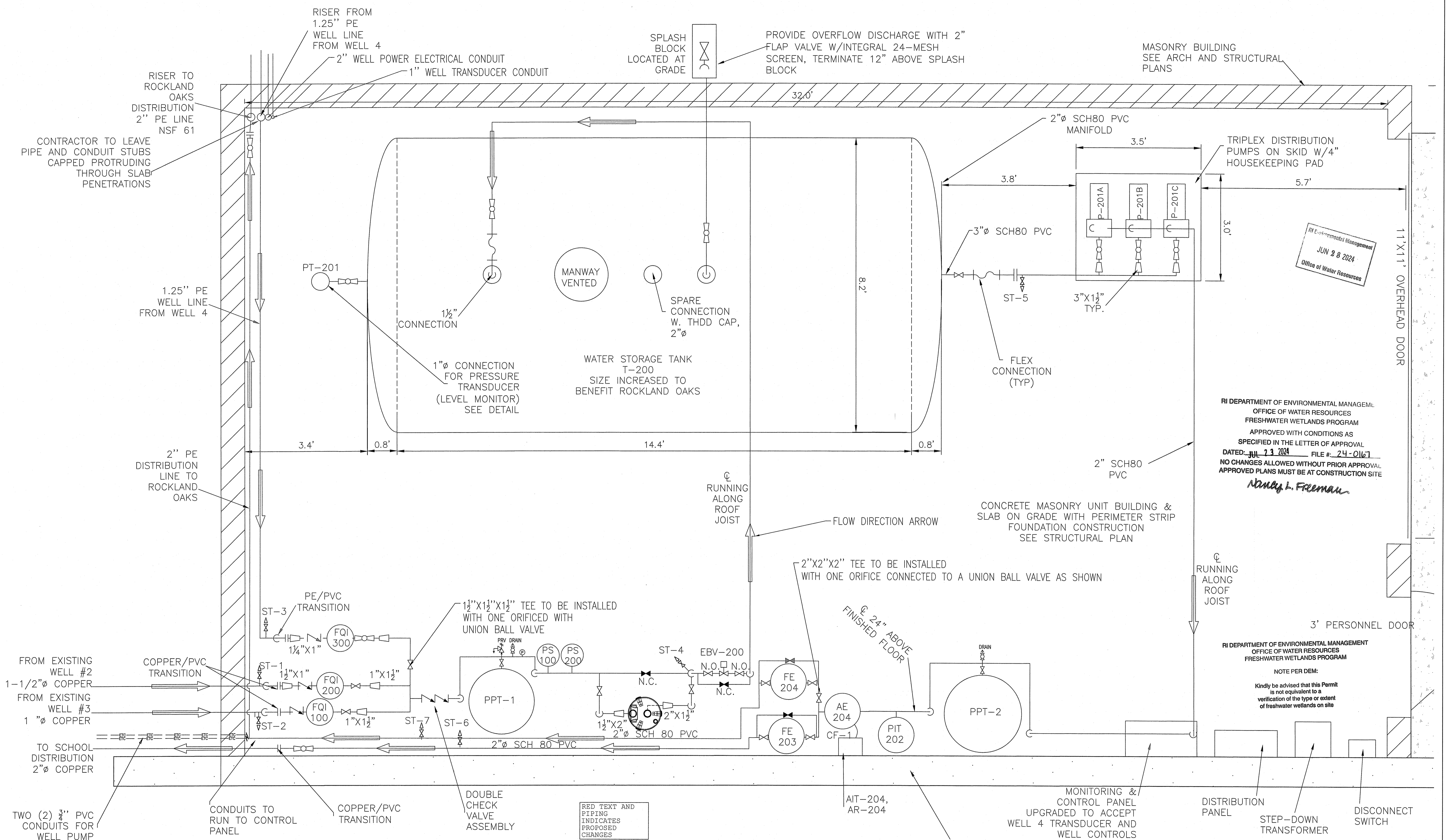
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- ANY USE OF STEEL ROAD PLATES WITHIN THE STATE RIGHT-OF-WAY (ROW) SHALL REQUIRE PRIOR RIDOT APPROVAL IN WRITING. IF APPROVED BY RIDOT, THE USE OF STEEL ROAD PLATES SHALL CONFORM WITH R.I.G.L. 24-8-45 - STEEL PLATE USE AND ALL THE FOLLOWING REQUIREMENTS:
 - STEEL PLATES SHALL WITHSTAND TRAFFIC LOADING WITHOUT MOVEMENT.
 - WHEN TWO (2) OR MORE STEEL PLATES ARE USED, THE PLATES SHALL BE WELDED OR FASTENED IN A MANNER TO ELIMINATE VERTICAL MOVEMENT.
 - ALL STEEL PLATES SHALL BE MARKED WITH THE UTILITY COMPANY OR CONTRACTOR NAME AND CONTACT INFORMATION.
 - STEEL PLATES SHALL BE INSTALLED TO EXTEND A MINIMUM OF 18 INCHES BEYOND THE EDGE OF ANY EXCAVATION.
 - TEMPORARY PAVING WITH HOT MIX ASPHALT OR INSTALLATION OF OTHER SUITABLY MANUFACTURED EQUIPMENT SHALL BE USED TO FEATHER THE EDGES OF THE PLATES TO FORM A WEDGED TAPER TO COVER THE EDGES OF THE STEEL PLATES.
 - EACH CORNER OF THE STEEL PLATES SHALL BE MARKED WITH DURABLE AND HIGHLY REFLECTIVE ORANGE PAVEMENT PARKING TAPE NO LESS THAN 4 INCHES IN WIDTH.
 - THE EXPOSED SURFACE AREA OF THE STEEL PLATES SHALL BE SLIP RESISTANT (NON-SKID).
 - ALL SIGNAGE ADVISING MOTORISTS OF THE STEEL PLATES SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 - ALL STEEL PLATES MUST BE REMOVED FROM THE ROADWAY BETWEEN OCTOBER 31ST AND APRIL 15TH AND PRIOR TO ANY WINTER STORM OUTSIDE OF THIS TIME PERIOD UNLESS OTHERWISE APPROVED BY RIDOT IN WRITING.

ROBERT F. FERRARI
12/8/2023
No. 4658
REGISTERED PROFESSIONAL ENGINEER
567 SOUTH COUNTY TRAIL, SUITE 116 EXETER, RI 02822
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REVISION	DATE	DESCRIPTION	BY	APP
SHEET		PLAN AND PROFILE-3	DATE	11/30/23
CLIENT		SCITUATE HOUSING AUTHORITY 104 ROCKLAND ROAD #1 SCITUATE, RI 02857	DESIGNED	SEK
PROJECT		ROCKLAND OAKS PUBLIC WATER SYSTEM IMPROVEMENTS	CHECKED	RFF
			APPROVED	RFF
			SHEET	C-6



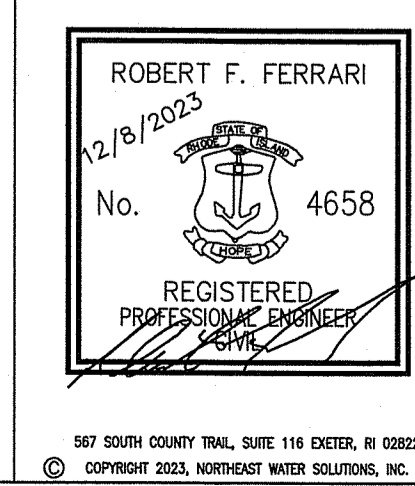
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RED TEXT AND
 PIPING
 INDICATES
 PROPOSED
 CHANGES

BUILD AMERICA, BUY AMERICA ACT (BABA)
 ITEMS IN RED
 THIS PROJECT IS SUBJECT TO THE BUILD
 AMERICA, BUY AMERICA ACT (BABA), ENACTED AS
 PART OF THE INFRASTRUCTURE INVESTMENT AND
 JOBS ACT ON NOVEMBER 15, 2021. THIS
 REQUIRES THAT ALL IRON, STEEL, MANUFACTURED
 PRODUCTS, AND CONSTRUCTION MATERIALS USED
 IN FEDERALLY FUNDED PROJECTS FOR
 INFRASTRUCTURE MUST BE PRODUCED IN THE
 UNITED STATES. THE CONTRACTOR MUST PROVIDE
 ADEQUATE DOCUMENTATION FOR ALL MATERIAL
 PURCHASED TO SHOW COMPLIANCE WITH BABA
 REQUIREMENTS. FOR MORE INFORMATION PLEASE
 REACH OUT TO THE ENGINEER OF RECORD

NSF STANDARDS
 IN ACCORDANCE WITH SECTION 1.5 (A)
 OF THE REGULATIONS, ALL
 EQUIPMENT, PIPING, MATERIALS, AND
 CHEMICALS USED IN THE WELL AND
 ASSOCIATED PIPING AND
 APPURTENANCES SHALL BE DESIGNED
 SPECIFICALLY FOR USE IN POTABLE
 WATER TREATMENT SYSTEMS AND SHALL
 CONFORM TO ANSI/NSF STANDARD 60
 AND 61.



REVISION	DATE	DESCRIPTION	BY	APP

SHEET SCITUATE HS & MS EQUIPMENT
 LAYOUT TO BENEFIT ROCKLAND OAKS
 CLIENT SCITUATE HOUSING AUTHORITY
 104 ROCKLAND ROAD #1
 SCITUATE, RI 02857
 PROJECT ROCKLAND OAKS PUBLIC
 WATER SYSTEM IMPROVEMENTS

DATE 11/30/23
 DRAWN BY SEK
 DESIGNED SEK
 CHECKED RFF
 APPROVED RFF
 SHEET M-1

TWO (2) 3/4" PVC
 CONDUITS FOR
 WELL PUMP
 CONTROL TO

CONDUITS TO RUN TO CONTROL
 PANEL

COPPER/PVC
 TRANSITION

DOUBLE
 CHECK
 VALVE
 ASSEMBLY

MONITORING &
 CONTROL PANEL
 UPGRADED TO ACCEPT
 WELL 4 TRANSDUCER AND
 WELL CONTROLS

DISTRIBUTION
 PANEL

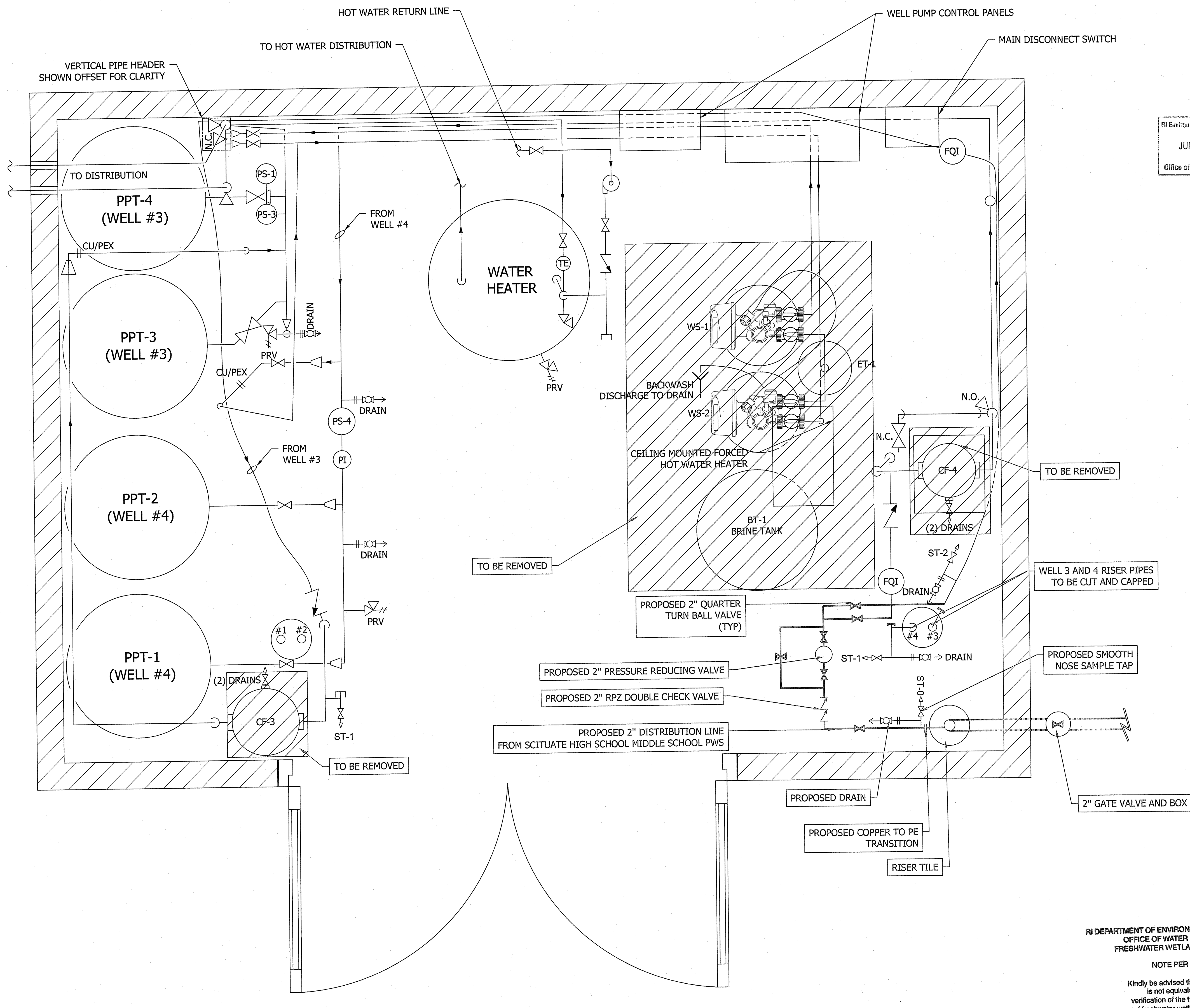
STEP-DOWN
 TRANSFORMER

DISCONNECT
 SWITCH

MECHANICAL PIPING & INSTALLATION NOTES:

- ALL PROCESS PIPING, UNLESS OTHERWISE NOTED, SHALL BE SCHEDULE 80 PVC, PROVIDED WITH EITHER CEMENTED OR FLANGED CONNECTIONS.
- CONNECTIONS TO VALVES, TANKS OR EQUIPMENT SHALL BE MADE WITH FLANGED OR THREADED CONNECTIONS, UNLESS SPECIFICALLY APPROVED BY THE OWNER OR SPECIFIED ELSEWHERE HEREIN.
- THE MINIMUM PIPE SIZE FOR WATER SYSTEM PIPING SHALL BE 3/4". VENTS SHALL BE A MINIMUM 1/2" OR AS NOTED ON THE DRAWINGS.
- PIPE INSTALLATION:
 - HORIZONTAL PIPES SHALL BE SUPPORTED AT UNIFORM SPACING. CONTINUOUS SUPPORTS USING ANGLES OR CHANNEL MEMBERS MAY BE SUBSTITUTED IN LIEU OF THE INDIVIDUAL SUPPORTS.
 - CHANGES IN PIPE SIZE SHALL BE DONE WITH THE APPROPRIATE SIZE CONCENTRIC REDUCING FITTING.
 - NO CONNECTION AT ANY TANK OR EQUIPMENT COMPONENT, NO VALVE, OR ANY OTHER ITEM OF EQUIPMENT SHALL SUPPORT THE WEIGHT OF ANY PIPE.
 - PIPELINES SHALL BE INSTALLED STRAIGHT AND TRUE, PARALLEL TO STRUCTURE LINES WITH A MINIMUM USE OF OFFSETS AND COUPLINGS. PROVIDE ONLY SUCH OFFSETS AS MAY BE REQUIRED TO PROVIDE NECESSARY HEADROOM OR CLEARANCE AND TO PROVIDE NECESSARY FLEXIBILITY IN PIPE LINES.
 - CHANGES IN DIRECTION OF PIPELINES SHALL BE MADE ONLY WITH FITTINGS TO PIPE BENDS. CHANGES IN SIZE SHALL BE MADE ONLY WITH FITTINGS.
 - UNLESS OTHERWISE INDICATED, INSTALL ALL SUPPLY PIPING, INCLUDING ISOLATION VALVES, TO EQUIPMENT, TANKS AND CONTROL VALVES AT LINE SIZE, WITH REDUCTION IN SIZE BEING MADE ONLY AT INLET TO THE CONTROL VALVE OR EQUIPMENT COMPONENT.
 - ALL PIPE SHALL BE CUT TO EACH MEASUREMENT AND INSTALLED WITHOUT SPRINGING OR FORCING. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING, EVEN TEMPORARILY, UNDUE LOADS, FORCES OR STRAINS ON VALVES, EQUIPMENT OR BUILDING ELEMENTS WITH PIPING CONNECTIONS OR PIPING SUPPORTS.
 - INSTALL ALL WORK SO THAT ALL PARTS REQUIRED ARE READILY ACCESSIBLE FOR INSPECTIONS, OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER.
 - MAKE EASILY ACCESSIBLE ALL EQUIPMENT, SAMPLE LOCATIONS, CONTROLS, VALVES, ETC., AND ANY AND ALL OTHER EQUIPMENT AND APPARATUS, AS MAY BE REQUIRED TO BE REACHED FROM TIME TO TIME FOR OPERATION AND MAINTENANCE.
 - ALL PIPING AND CONNECTED EQUIPMENT, INCLUDING FLOW METERS, FILTERS, STRAINERS, TRAPS AND OTHER SPECIALTIES AND ACCESSORIES SHALL BE SUPPORTED IN A MANNER THAT WILL NOT RESULT IN OR PRODUCE OBJECTIONABLE OR EXCESSIVE STRESS, DEFLECTION, SWAYING, SAGGING OR VIBRATION IN THE PIPING OR IN THE BUILDING STRUCTURE EITHER DURING ERECTION, CLEANING, TESTING OR NORMAL OPERATION OF THE SYSTEMS. PIPING SHALL NOT SHAKE OR BUCKLE BETWEEN SUPPORTS OR ANCHORS OR PREVENT PROPER MOVEMENT DUE TO EXPANSION AND CONTRACTION. PIPING SHALL BE SUPPORTED AT EQUIPMENT AND VALVES SUCH THAT THEY CAN BE DISCONNECTED AND REMOVED WITHOUT FURTHER SUPPORTING THE PIPING. PIPING SHALL NOT INTRODUCE ANY STRAINS OR DISTORTION TO THE CONNECTED EQUIPMENT.
 - HANGERS AND SUPPORTS SHALL BE INSTALLED COMPLETE, INCLUDING LOCK NUTS, CLAMPS, RODS, BOLTS, COUPLINGS, SWIVELS, INSERTS AND REQUIRED ACCESSORY ITEMS. HANGERS AND SUPPORTS FOR HORIZONTAL PIPING SHALL HAVE ADEQUATE MEANS OF VERTICAL ADJUSTMENT FOR PROPER ALIGNMENT OF PIPE AND SHALL BE PROVIDED WITH LOCK NUTS.
- VALVES:
 - VALVES SHALL BE INSTALLED WITH THE STEMS POSITIONED IN THE HORIZONTAL OR ABOVE THE CENTERLINE OF THE PIPE. ALL VALVES SHALL BE ACCESSIBLE FOR OPERATION, MAINTENANCE OR REMOVAL.
 - ALL PACKING, GASKETS, DISCS, SEATS, DIAPHRAGMS, LUBRICANTS, ETC., SHALL CONFORM TO RECOMMENDATIONS OF THE VALVE MANUFACTURER FOR THE INTENDED SERVICE.
- FLOOR PENETRATIONS: SLEEVES THROUGH MASONRY FLOORS SHALL BE SCHEDULE 40 BLACK STEEL PIPE, PROVIDED WITH A WATERSTOP, EXTENDING 2" ABOVE FINISHED FLOORS.
- RESTRAINT COUPLINGS:
 - FLEXIBLE PIPE COUPLINGS SHALL BE DRESSER STYLE 62, OR APPROVED EQUAL. COUPLING RINGS SHALL BE FURNISHED WITHOUT PIPE STOPS AND GASKETS SHALL BE OF THE PLAIN TYPE. FOLLOWER RINGS SHALL BE DESIGNED TO ADEQUATELY CONFINE THE GASKETS.
 - FLEXIBLE COUPLINGS ON PRESSURE LINES SHALL BE SUITABLY HARNESSED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER, OR OTHERWISE PROTECTED AGAINST A SEPARATION FROM THRUST. ALL JOINTS SHALL BE ARRANGED TO PREVENT ROTATION OF THE PIPE BY A METHOD APPROVED BY THE OWNER.
- UNIONS:
 - UNIONS SHALL BE INSTALLED AT ALL LOCATIONS SHOWN ON THE DRAWINGS AND AS REQUIRED FOR THE ISOLATION OF ALL TRAPS, THREADED VALVES, AND CONNECTIONS TO THREADED EQUIPMENT, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
 - UNIONS IN PIPING 2" AND SMALLER SHALL BE GROUND JOINT, SCREWED; 125 PSIG WORKING PRESSURE.
 - CONNECTIONS IN PIPING 2.5" AND LARGER SHALL BE FLANGED TYPE WITH GASKETS DESIGNED FOR THE WORKING PRESSURE OF THE UNIONS.
- FLANGED JOINTS:
 - FLANGED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ANSI B16.
 - FLANGED JOINTS SHALL BE MADE WITH BOLTS, BOLT STUDS WITH NUT ON EACH END, OR STUDS WITH NUTS WHERE THE FLANGE IS TAPPED. THE NUMBER AND SIZE OF BOLTS SHALL CONFORM TO THE SAME ANSI STANDARD AS THE FLANGES.
 - BOLTING FOR SERVICES UP TO 500° F SHALL BE ANSI/ASTM A307 GRADE B WITH SQUARE HEAD BOLTS AND HEAVY HEXAGONAL NUTS CONFORMING TO ANSI B18.2.1 "SQUARE AND HEX BOLTS" AND B18.2.2 "SQUARE AND HEX NUTS". BOLT STUDS AND STUDS SHALL BE OF THE SAME QUALITY AS MACHINE BOLTS.
 - GASKETS FOR FLAT FACE FLANGES SHALL BE FULL FACE TYPE. GASKETS FOR RAISED FACE FLANGES SHALL CONFORM TO REQUIREMENTS FOR "GROUP I GASKETS" IN ANSI B16.5. GASKETS 12" IN DIAMETER AND SMALLER SHALL BE 1/16 IN. THICK TEFLON COATED TYPE BY JOHN CRANE - STYLE 11F, FREE FLOW WITH NEOPRENE INSERT.
- WALL PENETRATIONS: WHERE SO DEPICTED THE PIPE TO WALL PENETRATION CLOSURES SHALL BE "CHEMICAL SERVICE LINK-SEAL" AS MANUFACTURED BY THUNDERLINE CORPORATION - BELLVILLE, MICH. 48111. SEALS SHALL BE MODULAR MECHANICAL TYPE, CONSISTING OF INTERLOCKING SYNTHETIC RUBBER LINKS SHAPED TO CONTINUOUSLY FILL THE ANNULAR SPACE BETWEEN THE PIPE AND WALL OPENING. LINKS SHALL BE LOOSELY ASSEMBLED WITH BOLTS TO FORM A CONTINUOUS RUBBER BELT UNDER EACH BOLT HEAD AND NUT. AFTER THE SEAL ASSEMBLY IS POSITIONED IN THE SLEEVE, TIGHTENING OF THE BOLTS SHALL CAUSE THE RUBBER SEALING ELEMENTS TO EXPAND AND PROVIDE AN ABSOLUTELY WATER-TIGHT SEAL BETWEEN THE PIPE AND WALL OPENING. THE SEAL SHALL BE CONSTRUCTED SO AS TO PROVIDE ELECTRICAL INSULATION BETWEEN THE PIPE AND WALL SLEEVE, THUS REDUCING CHANCES OF CATHODIC REACTION BETWEEN THESE TWO MEMBERS.
- ALL EXTERIOR, ABOVE GROUND PIPING SHALL BE PROVIDED HEAT TRACING AND INSULATION FOR FREEZE PROTECTION, EXTENDING TO A DEPTH 42" BELOW GRADE. REFER TO SPECIFICATION SECTION 15250
- IDENTIFICATION NAMEPLATES, TAGS AND LABELS SHALL BE PROVIDED AND FASTENED UPON PUMPS, MOTORS, VALVES, PIPELINES, AND OTHER MECHANICAL EQUIPMENT COMPONENTS. REFER TO SPECIFICATION SECTION 15050 FOR ADDITIONAL INFORMATION.
- STORAGE TANK EMERGENCY OVERFLOW:
 - THE EMERGENCY OVERFLOW PIPE SHALL EXTEND THROUGH THE EXTERIOR BUILDING WALL AND TURN VERTICALLY DOWN TO A POINT OF TERMINATION 12" ABOVE A SPLASH BLOCK.
 - THE OVERFLOW SHALL BE PROVIDED WITH A FLOP CHECK VALVE WITH INTEGRATED 24-MESH SCREEN.
- ALL WETTED MATERIALS TO CONSTRUCTION INCLUDING PIPE, FITTINGS, VALVES, SPECIALS, PUMPS, TANKS, FILTERS, LUBRICANTS, ETC., SHALL BE ANSI/NSF 60/61 COMPLIANT AS APPLICABLE.

RI Environmental Resources
 JUN 28 2024
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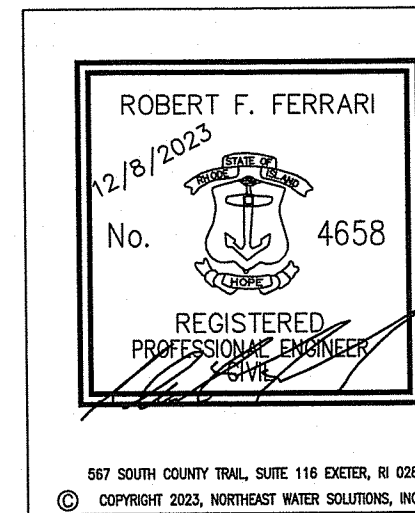
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: JUL 23 2024 FILE #: 24-01167
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

NSF STANDARDS
 IN ACCORDANCE WITH SECTION 1.5(A) OF THE
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 CONFORM TO ANSI/NSF STANDARD 60 AND 61.

BUILD AMERICA, BUY AMERICA ACT (BABA)
 THIS PROJECT IS SUBJECT TO THE BUILD AMERICA, BUY AMERICA
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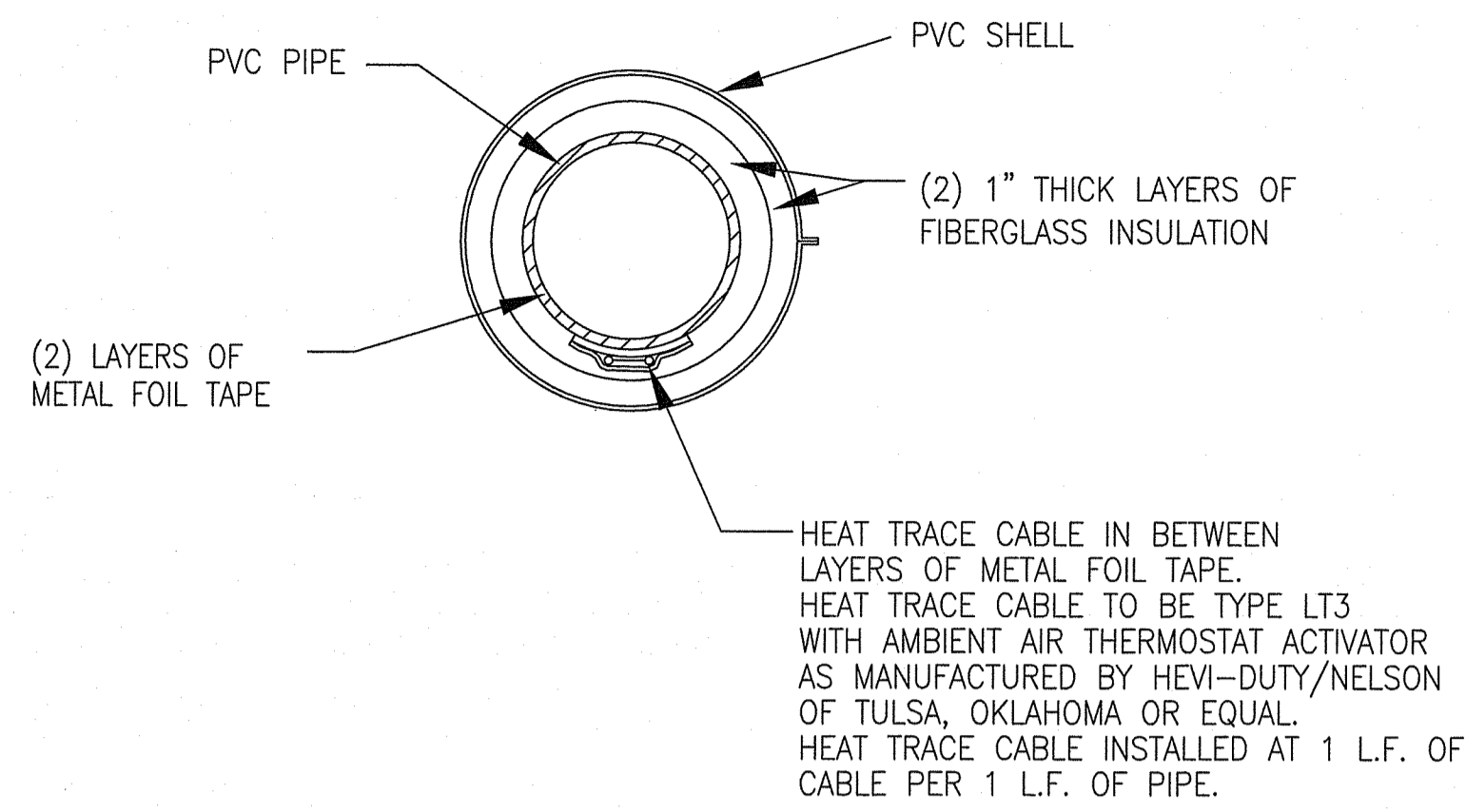
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REVISION	DATE	DESCRIPTION	BY	APP

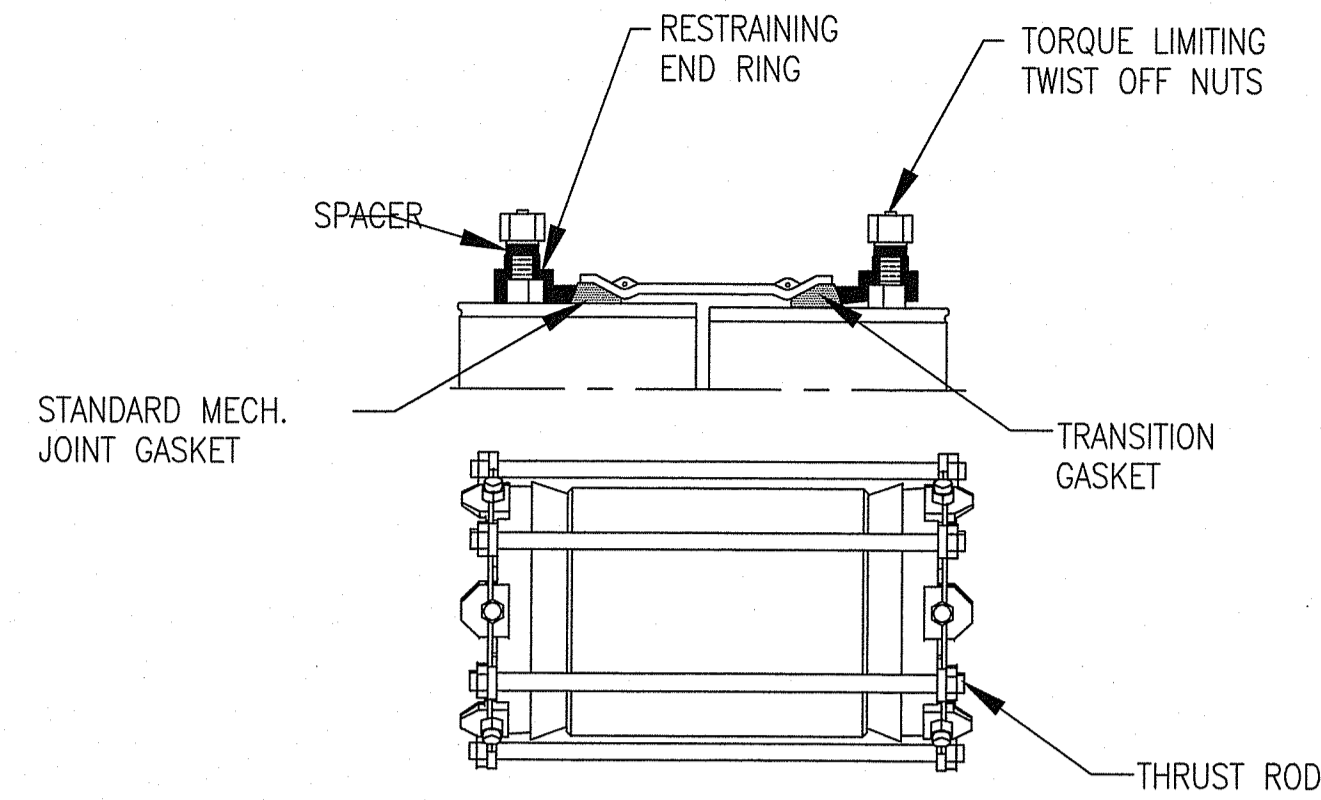
SHEET	ROCKLAND OAKS EQUIPMENT LAYOUT	DATE	11/30/23
CLIENT	SCITUATE HOUSING AUTHORITY 104 ROCKLAND ROAD #1 SCITUATE, RI 02857	DRAWN BY	SEK
DESIGNED		CHECKED	RFF
PROJECT	ROCKLAND OAKS PUBLIC WATER SYSTEM IMPROVEMENTS	APPROVED	RFF
		SHEET	M-2

RED TEXT AND
 PIPING
 INDICATES
 PROPOSED
 CHANGES



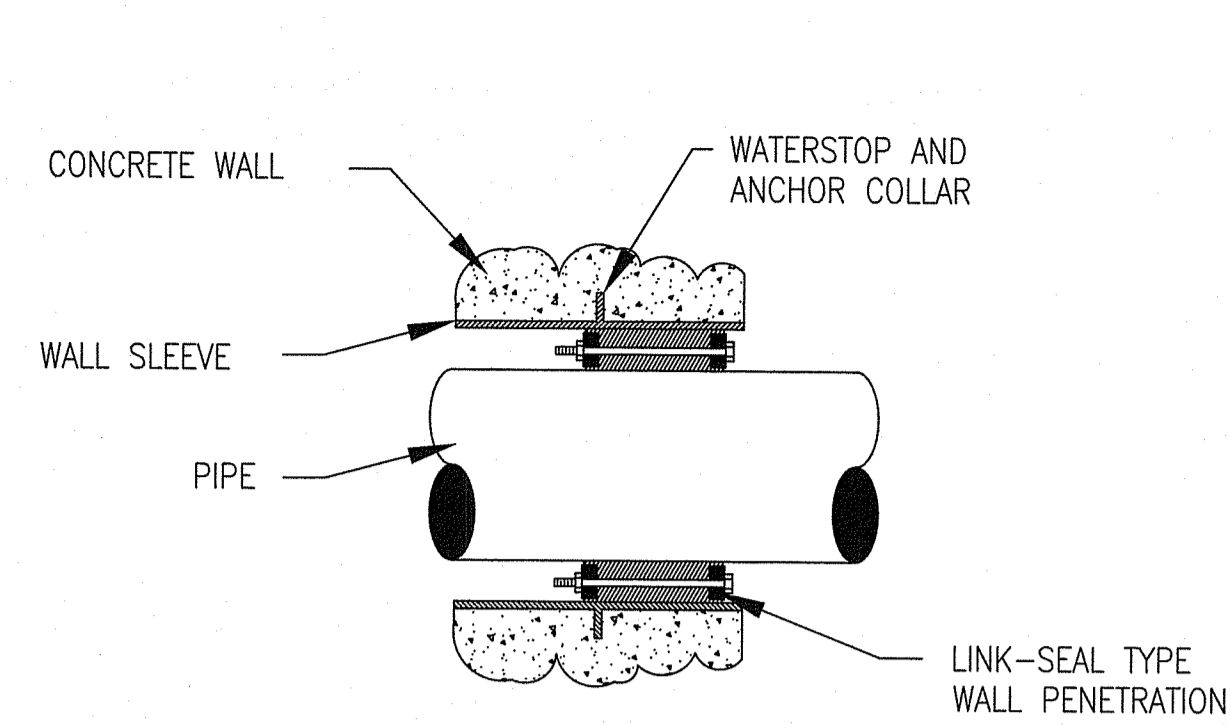
EXTERIOR PIPING INSULATION AND HEAT TRACING DETAIL

NOT TO SCALE



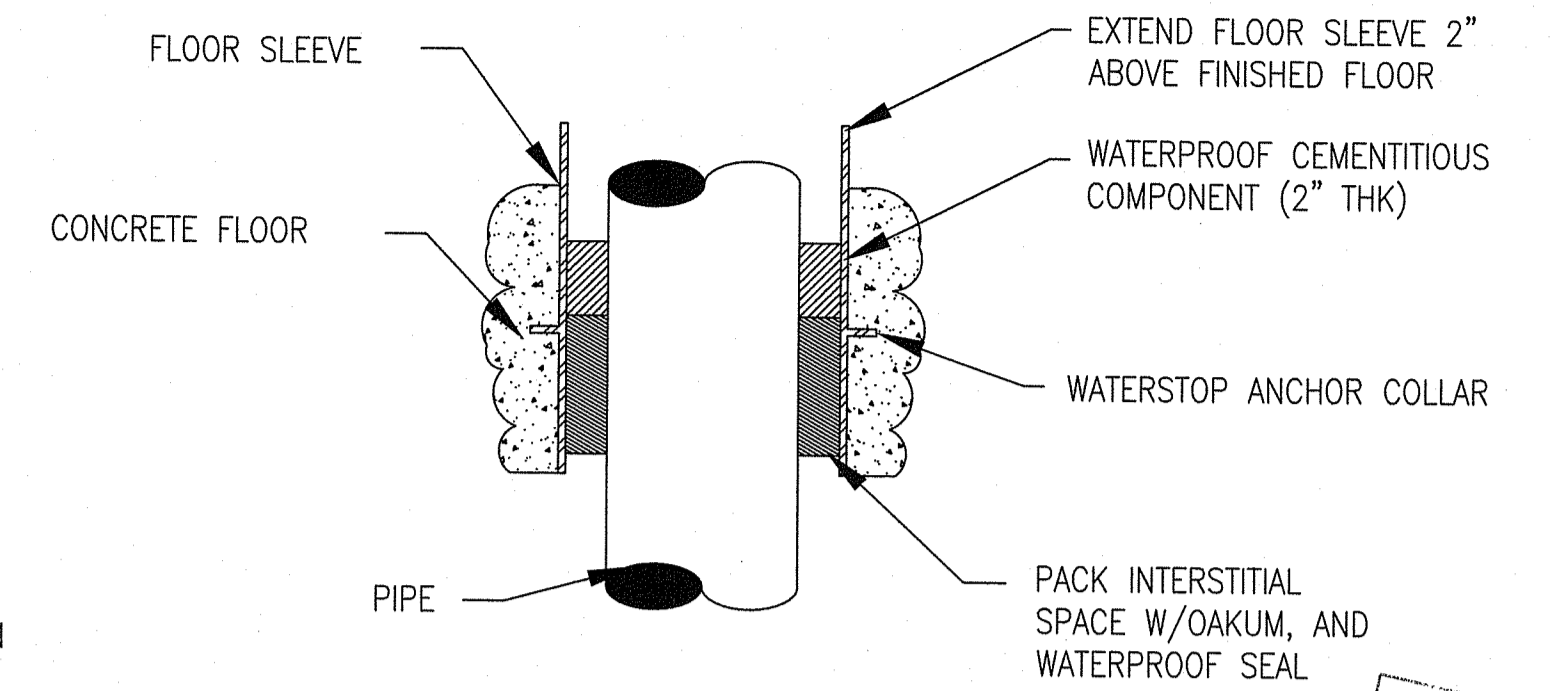
TYPICAL RESTRAINT COUPLING DETAIL

NOT TO SCALE



TYPICAL WALL SLEEVE DETAIL

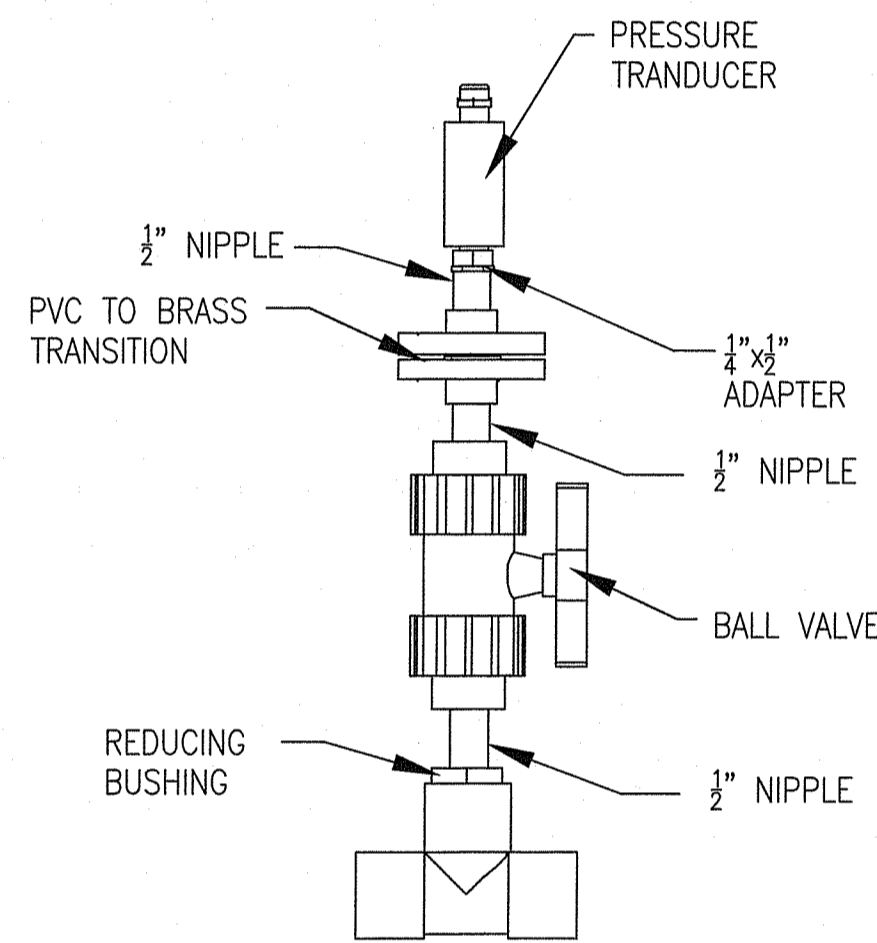
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TYPICAL FLOOR SLEEVE DETAIL

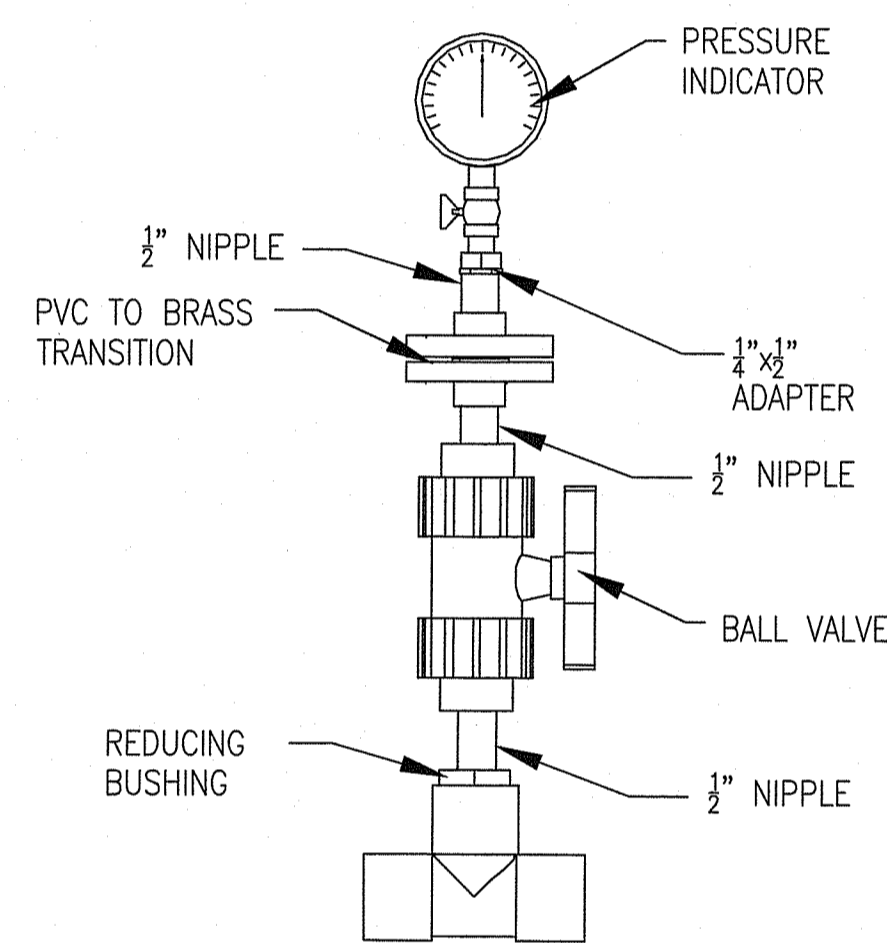
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Office of Water Resources



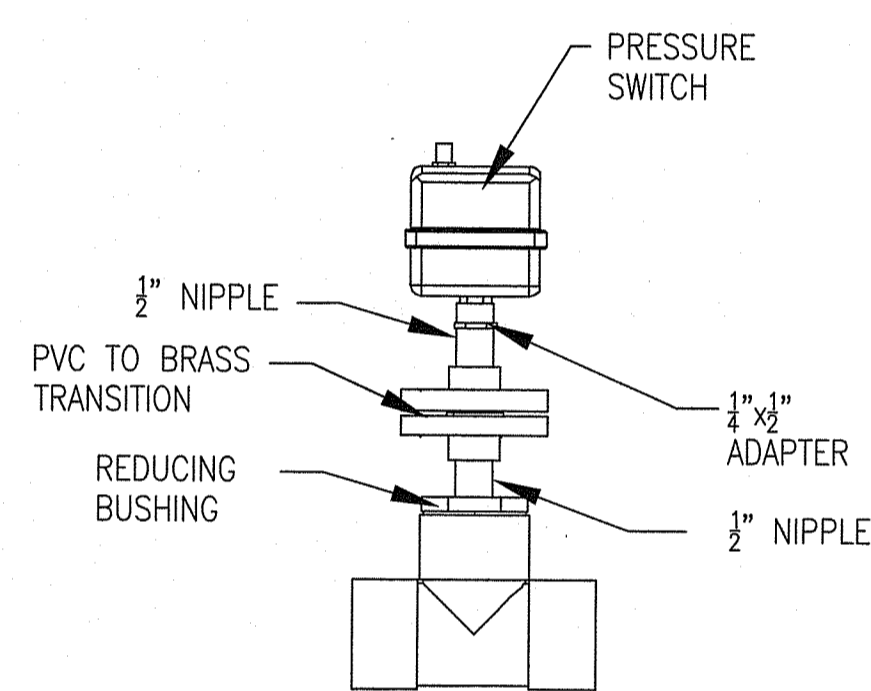
TYPICAL PRESSURE TRANSDUCER INSTALLATION

NOT TO SCALE



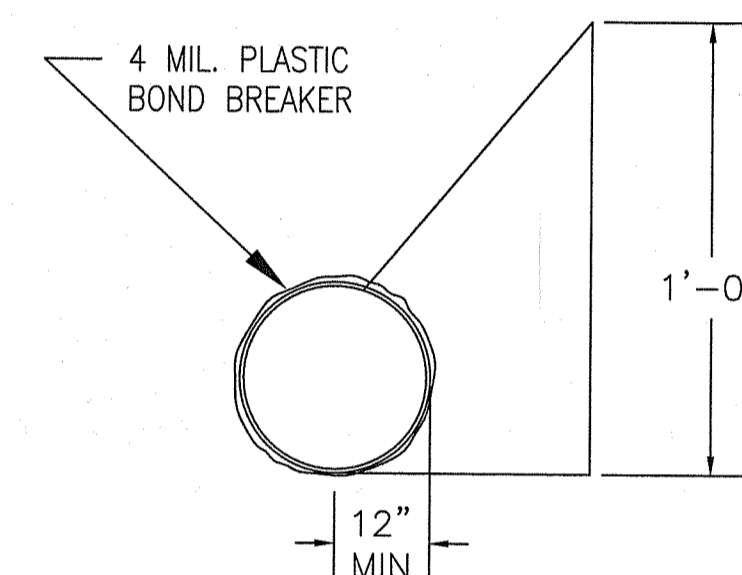
TYPICAL PRESSURE INDICATOR INSTALLATION

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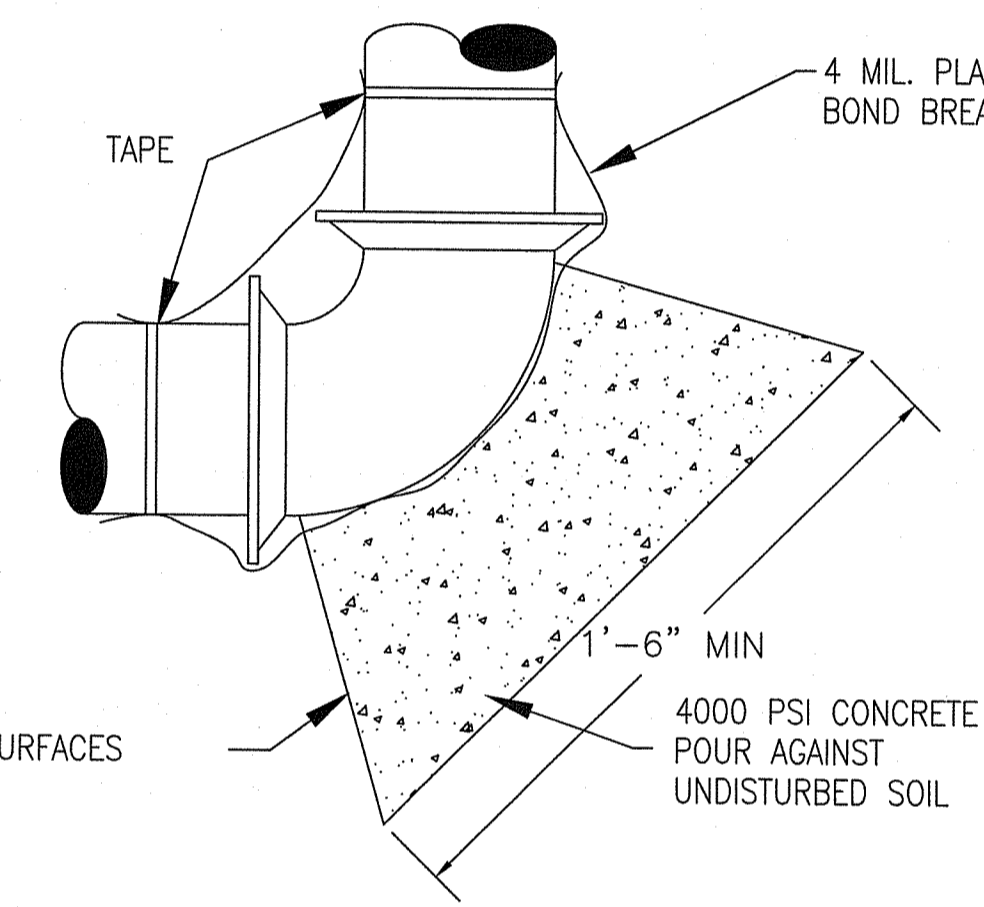
TYPICAL PRESSURE SWITCH INSTALLATION

NOT TO SCALE



TYPICAL THRUST BLOCK DETAIL

NOT TO SCALE



NOTE:
WRAP 4 MIL. PLASTIC AROUND PIPE & FITTINGS AT ALL LOCATIONS WHERE THEY WILL COME INTO CONTACT WITH CONCRETE.

TYPICAL SMOOTHBORE SAMPLE TAP INSTALLATION

NOT TO SCALE

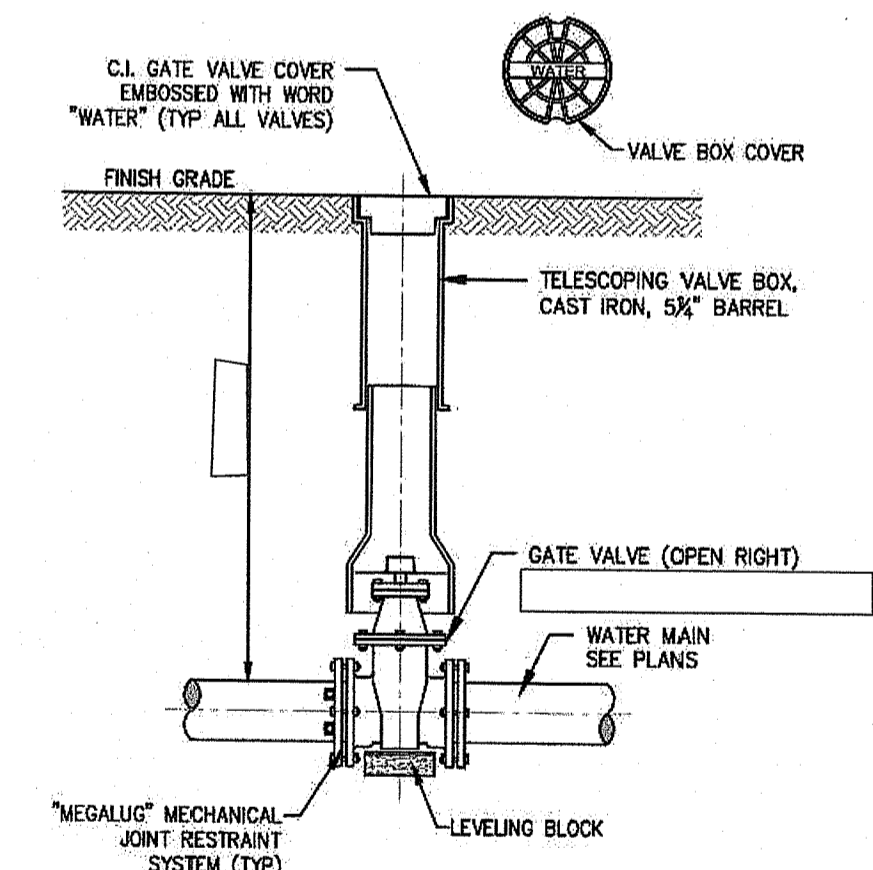
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 23 2024 FILE #: 24-0167
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Nancy L. Freeman

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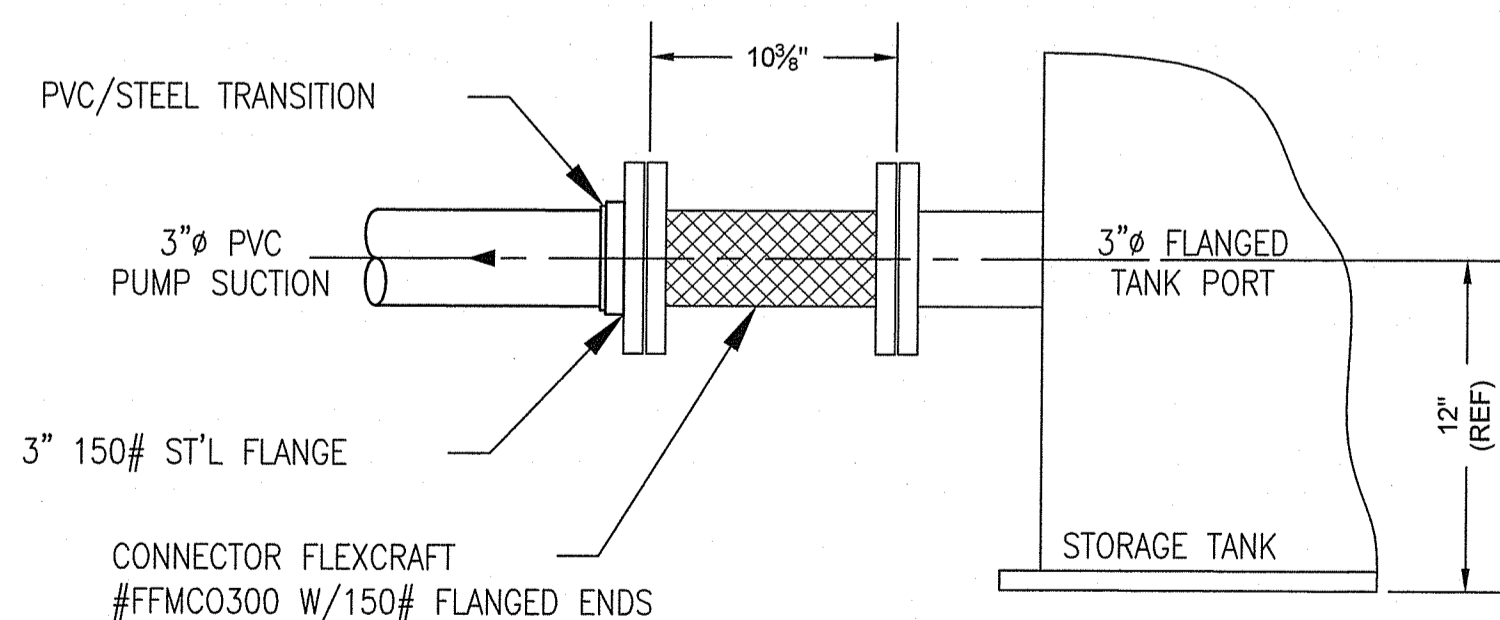
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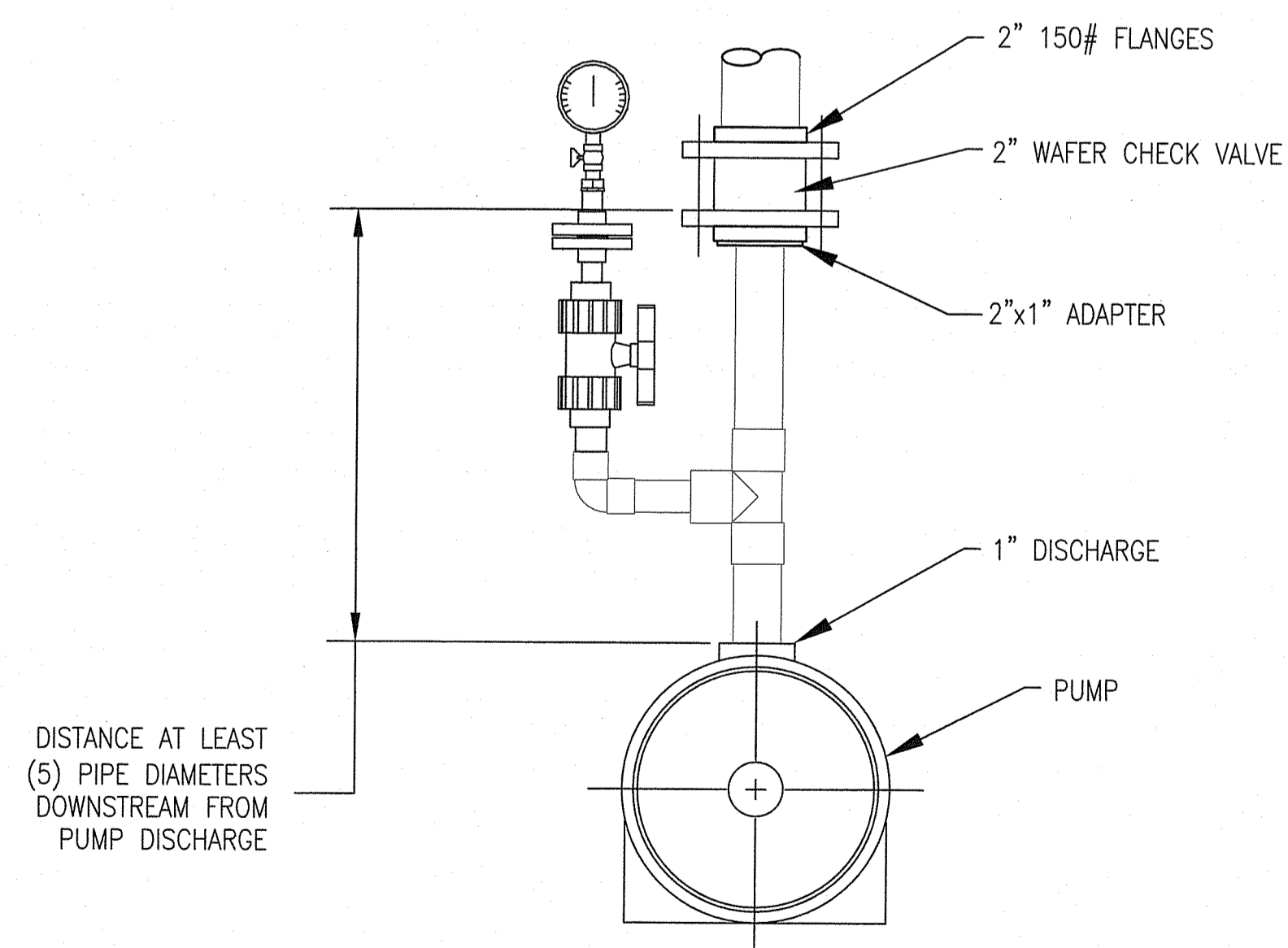
GATE VALVE AND BOX

NOT TO SCALE



TYPICAL FLEXIBLE CONNECTION INSTALLATION

NOT TO SCALE



WAFER CHECK VALVE INSTALLATION

NOT TO SCALE

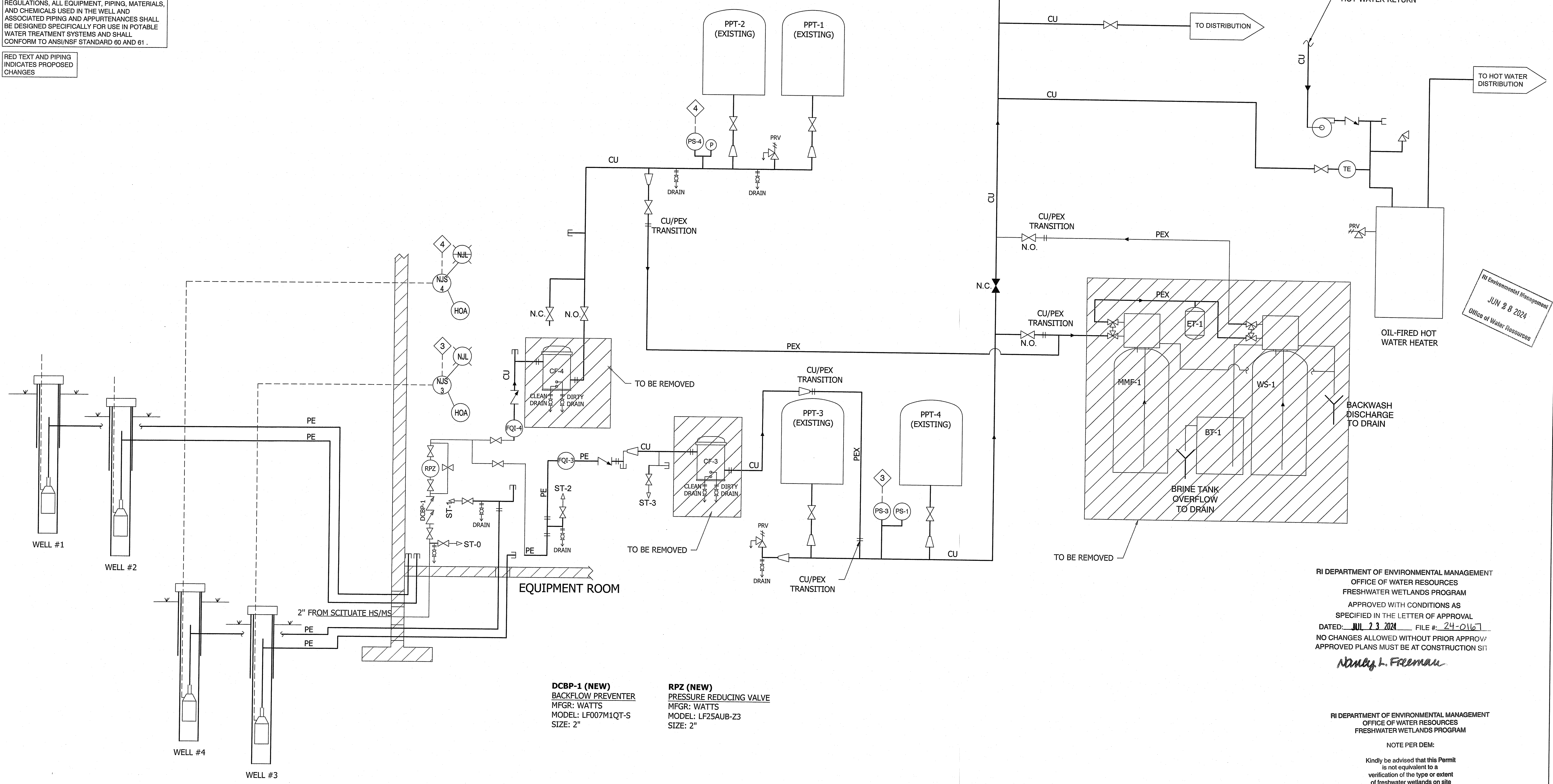
ROBERT F. FERRARI
12/8/2023
No. 4658
REGISTERED PROFESSIONAL ENGINEER
167 SOUTH COUNTY TRAIL, SUITE 114 DEXTER, RI 02822
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REVISION	DATE	DESCRIPTION	BY	APP
		SHEET		
		MECHANICAL DETAIL SHEET		
		CLIENT SCITUATE HOUSING AUTHORITY 104 ROCKLAND ROAD #1 SCITUATE, RI 02857	DESIGNED	11/30/23 SEK
		PROJECT ROCKLAND OAKS PUBLIC WATER SYSTEM IMPROVEMENTS	CHECKED	RFF
			APPROVED	RFF
			SHEET	M-3

BUILD AMERICA, BUY AMERICA ACT (BABA)
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RED TEXT AND PIPING INDICATES PROPOSED CHANGES



DCBP-1 (NEW)
 BACKFLOW PREVENTER
 MFR: WATTS
 MODEL: LF007M1QT-S
 SIZE: 2"

RPZ (NEW)
 PRESSURE REDUCING VALVE
 MFR: WATTS
 MODEL: LF25AUB-Z3
 SIZE: 2"

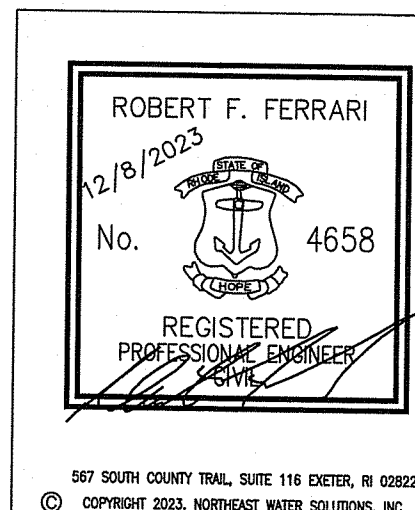
RI Environmental Management
 JUN 28 2024
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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REVISION	DATE	DESCRIPTION	BY	APP

SHEET	ROCKLAND OAKS PROCESS DIAGRAM	DATE	11/30/23
CLIENT	SCITUATE HOUSING AUTHORITY 104 ROCKLAND ROAD #1 SCITUATE, RI 02857	DRAWN BY	SEK
PROJECT	ROCKLAND OAKS PUBLIC WATER SYSTEM IMPROVEMENTS	CHECKED	RFF
		APPROVED	RFF
		SHEET	P-2