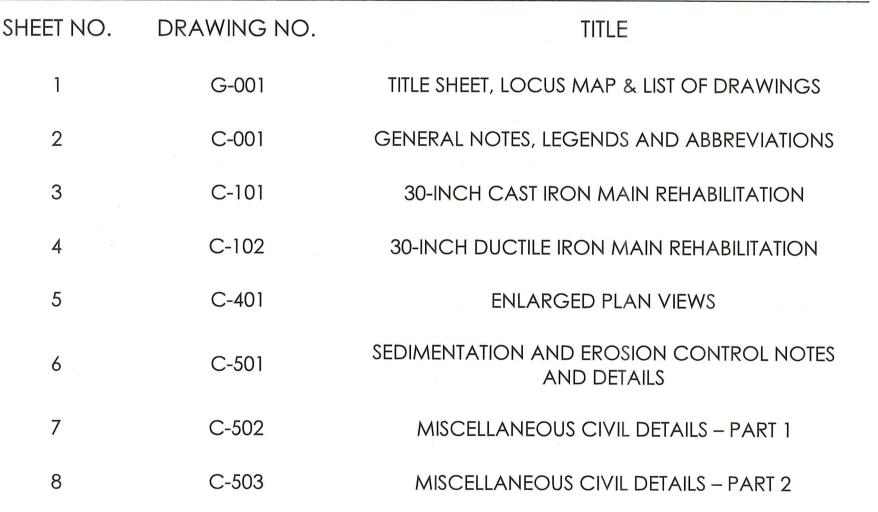


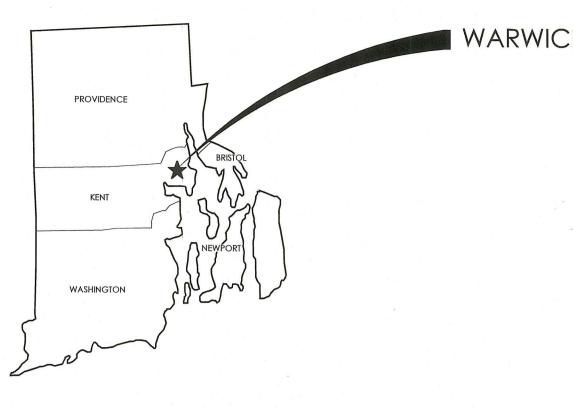
WATER DIVISION CITY OF WARWICK, RI



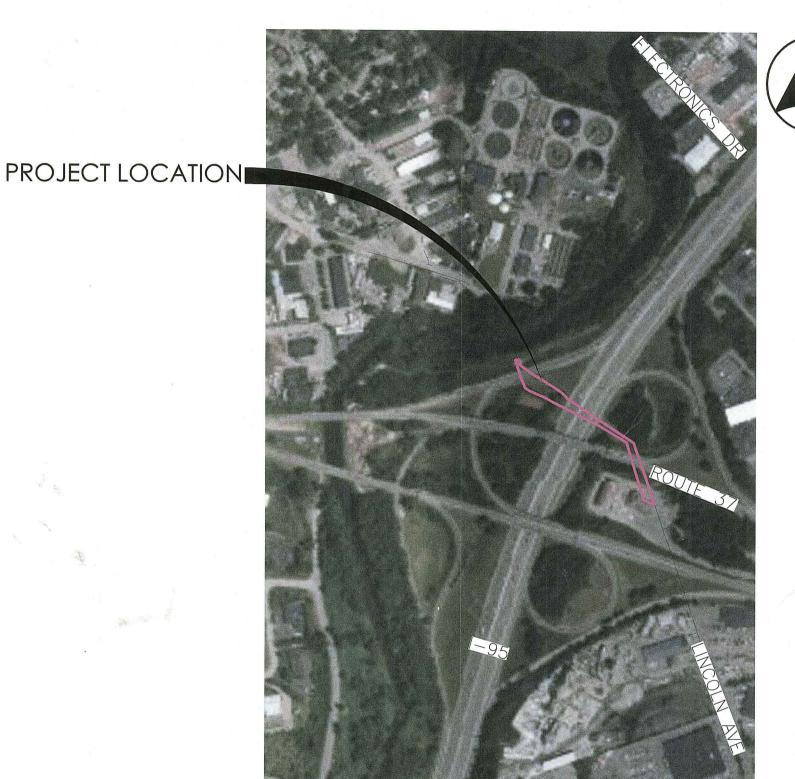
SHEET NO.	DRAWING NO.	TITLE
1	G-001	TITLE SHEET, LOCUS MAP & LIST OF DRAWINGS
2	C-001	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
3	C-101	30-INCH CAST IRON MAIN REHABILITATION
4	C-102	30-INCH DUCTILE IRON MAIN REHABILITATION
5	C-401	ENLARGED PLAN VIEWS
6	C-501	SEDIMENTATION AND EROSION CONTROL NOTES AND DETAILS
7	C-502	MISCELLANEOUS CIVIL DETAILS – PART 1
8	C-503	MISCELLANEOUS CIVIL DETAILS – PART 2







LOCATION MAP



VICINITY MAP NOT TO SCALE



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

SEE LETTER OF SAME DATE

Nancy L. Freeman

MAYOR FRANK J. PICOZZI

CITY COUNCIL PRESIDENT STEPHEN P. MCALLISTER

PUBLIC WORKS DIRECTOR

ERIC EARLS

WATER DIVISION CHIEF TERRY DIPETRILLO

PERMITTING PLAN SET NOT FOR CONSTRUCTION

LINCOLNAVE PIPELINE REHABILITATION CONTRACT 1



JUNE 2022

Project Number: 195150748

GENERAL NOTES:

- GROUND FIELD SURVEY WAS CONDUCTED BY DIPRETE ENGINEERING ON NOVEMBER 11, 2021. WETLAND RESOURCE AREAS WERE DELINEATED BY STANTEC ON AUGUST 24, 2021 AND AUGUST 26, 2021.
- 2. PLANIMETRIC FEATURES, CONTOUR LINES, AND SPOT ELEVATIONS WERE STEREO COMPILED AT A SCALE OF 1"=40' BY BLUE-SKY, NORTH ADAMS, MA. SUB-CONSULTANTS TO THE OWNER/DEVELOPER. FROM BLACK AND WHITE PHOTOGRAPHY TAKEN AT A SCALE OF 1"=500' AND FIT TO GROUND CONTROL POINTS SURVEYED BY DEA. GROUND CONTROL WAS PERFORMED ON THE GROUND BY DEA USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS. THE CONTOUR INTERVAL IS 2 FEET. NINETY PERCENT OF THE TOPOGRAPHY AS DEPICTED IS ACCURATE TO WITHIN HALF THE CONTOUR INTERVAL, AND THE REMAINING TEN PERCENT IS ACCURATE TO WITHIN ONE FULL CONTOUR INTERVAL.
- 3. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM NAD1983.
- 4. THE ELEVATIONS SHOWN HEREON REFERENCES THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.
- PROPERTY LINES SHOWN ARE BASED ON LIMITED REVIEW OF PLANS, DEEDS AND FIELD MONUMENTATION, AND ARE NOT THE RESULT OF A PROPERTY LINE SURVEY.
- LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULT OF SURFACE EVIDENCE AS LOCATED BY FIELD SURVEY, PLANS OF RECORD, AND OTHER AVAILABLE SOURCES.
- 7. THE EXISTING UTILITIES AND ALL OTHER STRUCTURES SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE. AND MAY NOT BE IN THE EXACT LOCATION SHOWN OR MAY NOT BE SHOWN AT ALL. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR THE COMPLETE FIELD INVESTIGATION, PERSONALLY, OF ALL EXISTING UTILITIES TO HIS COMPLETE SATISFACTION PRIOR TO SUBMITTING A FORMAL BID.
- 8. THE CONTRACTOR SHOULD VERIFY THE EXISTING CONDITIONS TO HIS SATISFACTION PRIOR TO BEGINNING ANY EXCAVATION. "DIG SAFE" SHALL BE NOTIFIED AT LEAST 72 HOURS AT EITHER 1-888-344-7233 OR 811 PRIOR TO BEGINNING ANY WORK. DEPTH OF EXISTING UTILITIES SHOULD BE VERIFIED BY TEST EXCAVATION WHENEVER POSSIBLE PRIOR TO INSTALLATION OF PROPOSED
- 9. CONSTRUCTION DETAILS ARE INCLUDED IN THE CONTRACT DRAWINGS.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL UTILITIES DAMAGED DURING THE CONSTRUCTION AT NO COST TO THE OWNER.
- 11. THE LOCATION OF EXISTING SUBSURFACE ROCK AND GROUNDWATER IS NOT KNOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN DETERMINATION AS TO THE LOCATION OF SUBSURFACE ROCK AND GROUNDWATER.
- 12. ANY AREA DISTURBED BY THE CONTRACTOR OUTSIDE THE LIMIT OF WORK SHALL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.
- 13. THE CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING GRADE.
- 14. EXISTING VALVES, MANHOLE FRAMES AND COVERS REMOVED FROM THE WORK SHALL REMAIN THE PROPERTY OF THE WARWICK WATER DIVISION (WWD). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DELIVERING ALL SALVAGED MATERIALS PER THE DIRECTION OF THE WWD.
- 15. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES WHICH HOLD WATER IN THE SYSTEM. THE WWD WILL, UPON 24 HOURS NOTICE FROM THE CONTRACTOR, OPEN AND/OR CLOSE ANY VALVES REQUIRED FOR DRAINING OR ADMITTING WATER TO VARIOUS SECTIONS OF THE MAINS.
- 16. ANY WATER THAT IS PUMPED AND DISCHARGED FROM THE TRENCH AND/OR EXCAVATION AS PART OF THE CONTRACTOR'S WATER HANDLING SHALL BE FILTERED BY AN APPROVED METHOD PRIOR TO ITS DISCHARGE INTO A RECEIVING WATER OR DRAINING SYSTEM.
- 17. THE PUMPED WATER SHALL BE FILTERED THROUGH COMPOST FILTER TUBES, A VEGETATIVE FILTER STRIP OR A VEGETATED CHANNEL TO TRAP SEDIMENT OCCURRING AS A RESULT OF THE CONSTRUCTION OPERATIONS. THE VEGETATED CHANNEL SHALL BE CONSTRUCTED SUCH THAT DISCHARGE FLOW RATE SHALL NOT EXCEED A VELOCITY OF MORE THAN 1 FPS. THE SEDIMENT SHALL BE CLEARED FROM THE CHANNEL PERIODICALLY.
- 18. WORK OCCURS ADJACENT TO SENSITIVE WETLAND AREAS. REFER TO SPECIFICATION SECTIONS 01060, 01100, 01567, TO DRAWINGS C-501, C-502 AND THE PERMITS IN THE APPENDIX.

By Appd. YY.MM.DD

Issued

- 19. WHERE EARTH DISTURBING ACTIVITIES ARE PROPOSED WITHIN THE BUFFER TO WETLAND RESOURCE AREAS. COMPOST FILTER TUBES SHALL BE INSTALLED ALONG THE DOWNGRADIENT LIMIT OF WORK TO PROTECT ADJACENT RESOURCE AREAS FROM SEDIMENTATION.
- 20. WHERE EARTH DISTURBING ACTIVITIES ARE PROPOSED PROXIMATE TO EXISTING CATCH BASINS, SILT SACKS SHALL BE INSTALLED TO PREVENT SEDIMENTS FROM ENTERING INTO THE DRAINAGE SYSTEM.
- 21. IN PLACES WHERE OPEN CUT EXCAVATION IS CALLED FOR TO ADD/REPLACE OR REMOVE AN APPURTENANCE, CONTRACTOR MAY SLIPLINE THROUGH THE EXISTING FITTING AND COME BACK AND OPEN CUT THE PIPE TO INSTALL THE FITTING. THIS MAY BE DONE FOR THE CONTRACTOR'S CONVENIENCE AND AT NO ADDITIONAL COST TO THE OWNER.
- 22. SELECTED CONTRACTOR WILL BE PROVIDED WITH A COPY OF AUTOCAD DRAWING FILES AND TELEVISION INSPECTION REPORT "SAHARA INSPECTION REPORT, LINCOLN AVENUE TRANSMISSION MAIN, PURE TECHNOLOGIES, JUNE 2020" AND APPLICABLE VIDEO FILES FOR THE WORK.
- 23. TRENCH SPOILS SHALL BE PLACED ON UPHILL SIDE OF TRENCH ONLY. SPOILS THAT CANNOT BE PLACED UPHILL SHALL BE TRUCKED OUT OF THE WORK AREA AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. SPOILS SHALL NOT BE PLACED AGAINST EROSION CONTROL.
- 24. NO DEWATERING SHALL OCCUR UNTIL A DEWATERING PLAN HAS BEEN APPROVED IN ACCORDANCE WITH SECTION 02240. APPROVED DEWATERING PLAN SHALL BE ON-SITE AT ALL TIMES DURING DEWATERING ACTIVITIES.
- 25. THE TWO WATER MAINS FOR REHABILITATION ARE KNOWN AS THE CAST IRON MAIN (PRIMARY TRANSMISSION MAIN), AND THE DUCTILE IRON WATER MAIN (BYPASS TRANSMISSION MAIN).
- 26. THE OPEN CUT EXCAVATION SHOWN ON THE PLANS IS DIAGRAMMATIC. TRENCH WIDTHS SHALL BE PAID FOR AS INDICATED ON DETAIL 10 ON DRAWING C - 502.
- 27. PROFILES ARE BASED UPON DATA COMPILED FROM RECORD INFORMATION FURNISHED TO ENGINEER BY OWNER. ALL OTHER INFORMATION IS BASED UPON FIELD SURVEYS AND TEST PITS WHERE NOTED.

PROPOSED BENCHMARK PROPOSED BORING PROPOSED BOUND PROPOSED CATCH BASIN (ROUND) ■ PROPOSED CATCH BASIN (SQUARE) © PROPOSED COMMUNICATION MANHOLE

PROPOSED CONIFEROUS TREE - X - X - PROPOSED FENCE (BARBED WIRE) PROPOSED CURB INLET - 0 - 0 - PROPOSED FENCE (CHAIN LINK) PROPOSED DECIDUOUS TREE PROPOSED DOUBLE POLE SIGN → PROPOSED DRAINAGE FLOW PROPOSED DRAIN MANHOLE (DMH) PROPOSED DRILL HOLE

© PROPOSED ELECTRICAL MANHOLE ◆ PROPOSED FLOOD LIGHT - PROPOSED GUY POLE PROPOSED HYDRANT

 PROPOSED IRON PIN ☆ PROPOSED LIGHT POST © PROPOSED NATURAL GAS MANHOLE S PROPOSED SANITARY SEWER MANHOLE (SMH)

PROPOSED SINGLE POLE SIGN X 95.5 PROPOSED SPOT ELEVATION △ PROPOSED SURVEY POINT

① PROPOSED TELEPHONE MANHOLE

PROPOSED TEST PIT PROPOSED UTILITY POLE PROPOSED WATER SHUTOFF

PROPOSED WELL

EXISTING BOUND

EXISTING BENCHMARK

EXISTING CURB INLET

- EXISTING GUY POLE

EXISTING HYDRANT

EXISTING IRON PIN

EXISTING SURVEY POINT

EXISTING CATCH BASIN (SQUARE)

EXISTING CATCH BASIN (ROUND)

EXISTING DRAIN MANHOLE (DMH)

© EXISTING NATURAL GAS MANHOLE

S EXISTING SEWER MANHOLE (SMH)

EXISTING SINGLE POLE SIGN

EXISTING DOUBLE POLE SIGN

EXISTING FLOOD LIGHT

EXISTING LIGHT POST

⇒ EXISTING DRAINAGE FLOW

EXISTING MAILBOX

EXISTING TEST PIT

EXISTING BORING

EXISTING STUMP

EXISTING WETLAND

EXISTING UTILITY POLE

EXISTING GATE VALVE

W EXISTING WELL

** EXISTING WATER SHUTOFF

EXISTING CONIFEROUS TREE

EXISTING DECIDUOUS TREE

EXISTING TELEPHONE MANHOLE

EXISTING ELECTRICAL MANHOLE

EXISTING COMMUNICATION MANHOLE

EXISTING LEGEND

PROPOSED LEGEND

----- CATV ------ PROPOSED CABLE TV

— — PROPOSED EASEMENT

-# # # # PROPOSED DEMOLITION WORK

PROPOSED DITCH/SWALE

PROPOSED EDGE OF RIVER

PROPOSED EDGE OF POND

PROPOSED EDGE OF WETLAND

PROPOSED FENCE (WOODEN)

PROPOSED FIRE PROTECTION

PROPOSED FUEL GAS

- · - · - PROPOSED LIMITS OF CONSTRUCTION

PROPOSED GUARD RAIL

PROPOSED NATURAL GAS

PROPOSED MAJOR CONTOUR

PROPOSED MINOR CONTOUR

PROPOSED PRESSURE STEAM

PROPOSED OVERHEAD POWER

PROPOSED SANITARY SEWER

PROPOSED PROPERTY LINE

PROPOSED OPEN CUT

----- FM ------ PROPOSED SANITARY SEWER (FORCE MAIN)

PROPOSED SIPP LINING

PROPOSED RETAINING WALL

PROPOSED RIGHT OF WAY

PROPOSED ROOF DRAIN

PROPOSED STORM DRAIN

PROPOSED COMPOST FILTER TUBES

PROPOSED UNDERGROUND TELEPHONE

PROPOSED UNDERGROUND POWER

PROPOSED OVERHEAD TELEPHONE

------ W ------ PROPOSED WATER MAIN

PROPOSED FOOTING UNDERDRAIN

---- 100 --- EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR EXISTING DITCH/SWALE EXISTING RAILROAD TRACKS EXISTING EDGE OF WATER EXISTING WETLAND BOUNDARY EXISTING EASEMENT EXISTING PROPERTY LINE EXISTING RIGHT-OF-WAY X 95.5 **EXISTING SPOT ELEVATION** EXISTING FUEL GAS EXISTING NATURAL GAS ----- GAS -----EXISTING OVERHEAD POWER EXISTING UNDERGROUND POWER EXISTING SANITARY SEWER EXISTING SANITARY SEWER (FORCE MAIN) EXISTING STORM DRAIN EXISTING PRESSURE STEAM EXISTING WATER MAIN EXISTING CABLE TV EXISTING OVERHEAD TELEPHONE EXISTING UNDERGROUND TELEPHONE EXISTING GUARD RAIL — X — X — EXISTING FENCE EXISTING CHAINLINK FENCE EXISTING WOODEN FENCE EXISTING RETAINING WALL EXISTING HAYBALES EXISTING STONE WALL EXISTING TREE/SHRUB LINE

ABC ASPHALT BASE COURSE INV ASPHALT CONCRETE ADJ **ADJUSTABLE IPS** APPROX **APPROXIMATE ARV** AIR RELEASE/VACUUM VALVE **ASPH ASPHALT AVE AVENUE** MAX BASE MDC BURIED ELECTRIC MH **BFV** BUTTERFLY VALVE MIN BIT **BITUMINOUS** MISC BK SWK BACK OF SIDEWALK MJ BASELINE **BLVD BOULEVARD** NAD BENCHMARK BNDRY **BOUNDARY** NTS BLOW OFF OD BOC BACK OF CURB OE BOTTOM BRIDGE; BRANCH BURIED TELEPHONE CABLE PC BTD BURIED TELEPHONE DUCT CATV CABLE TELEVISION CB CATCH BASIN PE CBC CONCRETE BOX CULVERT CCW COUNTERCLOCKWISE CURB FACE; CUBIC FEET CG CURB AND GUTTER CI CURB INLET; CAST IRON CIP CAST-IN-PLACE; CAST IRON PIPE POL CL CENTER LINE CLF CHAIN LINK FENCE CM CONCRETE MONUMENT: CORRUGATED METAL CMON CAST MONUMENT CMP CORRUGATED METAL PIPE CNO COULD NOT OPEN CONC CONCRETE PS CORP CORPORATION **PSF** CP CONCRETE PIPE; CONTROL PANEL PSI **CPLG** COUPLING CTR CENTER **PVC** CTRL CONTROL PW CU COPPER RC CY CUBIC YARD DIAMETER **RCP** DAT **DATUM** RD DEG DEGREE DI DUCTILE IRON DIA DIAMETER DIP DUCTILE IRON PIPE DMH DROP MANHOLE: DRAIN MANHOLE SBC DR DIMENSION RATION

ABANDON

EG

EOP

ESMT

EXIST

FG

FH

FLEX

FLRD

FLG

FΜ

FN

FND

FOC

FT

GA

GAL

GALV

GAS

GC

GM

GR

GV

GVC

HMA

HORIZ

GALV STL

EXISTING GRADE

FINISHED GRADE

FIRE HYDRANT

EDGE OF PAVEMENT

ELEVATION

EASEMENT

EXISTING

FLEXIBLE

FLANGE

FLARED

FENCE

FOUND

GAUGE

GALLON

FORCEMAIN

FOOT; FEET

GATE; GAS

GALVANIZED

GAS LINE

GAS MAIN

HORIZONTAL

INCH; INLET

INSULATING

GALVANIZED STEEL

GRADE; GRATE; GUARDRAIL

GATE VALVE; GAS VALVE

GAS VALVE COVER

HOT MIX ASPHALT

HYDRANT: HYDRAULIC

PKN&D POB POC POTW PPM **PRCST** PROP PRV **PTRV RCCP** REBAR RED REQD ROW SIC SIPP SMH SS SSC SST STA STD STL TBM TCE TCP TCZ TEMP FACE OF CURB/CONCRETE; FIBER OPTIC CABLE THK TMP TOP TOT TP **TRANS** TYP VAL GRADE CHANGE; GENERAL CONTRACTOR **VB** VC W/ W/O **WDPW** INSIDE DIAMETER; IDENTIFICATION WM WV WATER VALVE

LIST OF ABBREVIATIONS

INVERT ELEVATION

IRON PIPE SIZE

LINEAR FOOT (FEET)

MINIMUM; MINUTE

MECHANICAL JOINT

MISCELLANEOUS

METROPOLITAN DISTRICT COMMISSION

INVERT

JOINT

MAXIMUM

MANHOLE

IRON PIPE

NORTH: NEWTON NORTH AMERICAN DATUM (1927 AND 1983) NAVD NORTH AMERICAN VERTICAL DATUM OF 1988 NOT TO SCALE OUTSIDE DIAMETER; OUTSIDE DIMENSION OVERHEAD ELECTRIC OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PAVT PAVEMENT POINT OF CURVATURE; POLYCARBONATE; PORTLAND CEMENT **PCULV** PIPE CULVERT POLYETHYLENE PERP ESMT PERPETUAL EASEMENT POSITIVE INDICATOR VALVE; PIVOTED PK NAIL AND DISK POINT OF BEGINNING POINT ON CURVE: POINT OF COMMENCEMENT POINT ON LINE POTABLE WATER PARTS PER MILLION PRECAST PROPERTY; PROPOSED PRESSURE REDUCING VALVE; PRESSURE RELIEF VALVE; PRESSURE REGULATOR VALVE PUMP STATION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TEMPERATURE RELIEF VALVE POLYVINYL CHLORIDE (PLASTIC) POTABLE WATER; PRESSURE WATER REINFORCED CONCRETE REINFORCED CONCRETE CULVERT PIPE REINFORCED CONCRETE PIPE REINFORCING STEEL BAR REDUCER REQUIRED RIGHT OF WAY SUPERPAVE BASE COURSE SUPERPAVE INTERMEDIATE COURSE SPRAY-IN-PLACE PIPE SANITARY MANHOLE STORM SEWER; SANITARY SEWER SUPERPAVE SURFACE COURSE STAINLESS STEEL STATION STANDARD STEEL TEMPORARY BENCHMARK TEMPORARY CONSTRUCTION EASEMENT TRAFFIC CONTROL PLAN TRAFFIC CONTROL ZONE TEMPORARY; TEMPERATURE THICK; THICKNESS **TEMPORARY** TOP OF PAVEMENT TOTAL TEST PIT TRANSITION: TYPICAL VALVE; VALLEY VALVE BOX VERTICAL CURVE WIDTH; WIDE; WEST; WATER; WATT WITHOUT CITY OF WORCESTER DEPARTMENT OF PUBLIC WORKS AND PARKS WETLAND FLAG WATER MAIN; WATER METER; WIRE MESH WATER MANHOLE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM REVIEWED SITE PLAN APPLICATION #: 22-0193 DATED: _______3 1 2023 SEE LETTER OF SAME DATE

JUN 0 3 2022 Office of Water Res

Permit-Seal Consultants **GINA BRITTON**

REGISTERED

PROFESSIONAL ENGINEER (CIVIL) -11

Gin GBritte

By Appd. YY.MM.DD

05.26-2022

65 Network Drive, 2nd Floor **Burlington MA** www.stantec.com

FEMA FLOOD ZONE AE/ AREA SUBJECT TO FLOODING

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Client/Project CITY OF WARWICK WATER DIVISION

LINCOLN AVE PIPELINE REHABILITATION CONTRACT

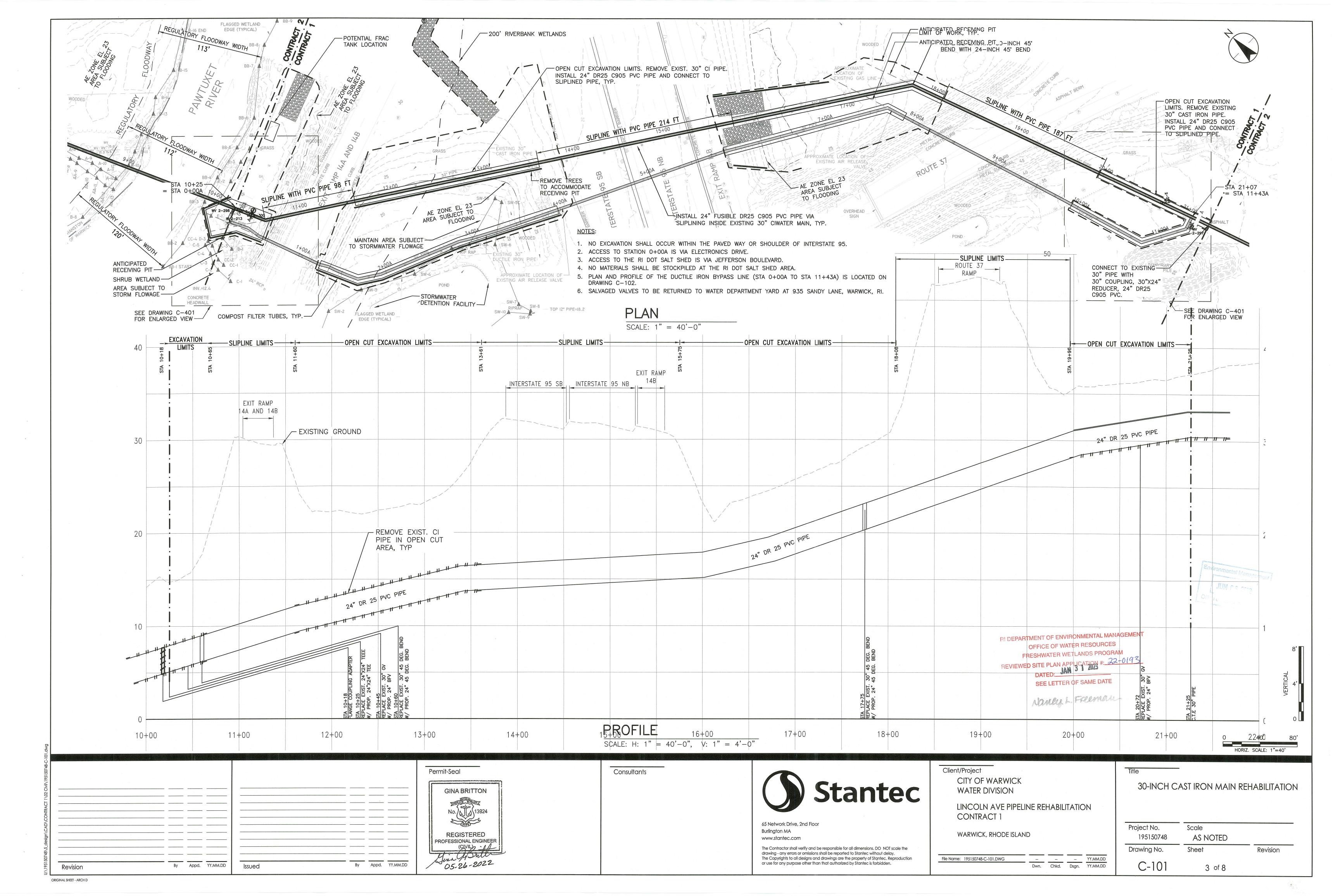
WARWICK, RHODE ISLAND

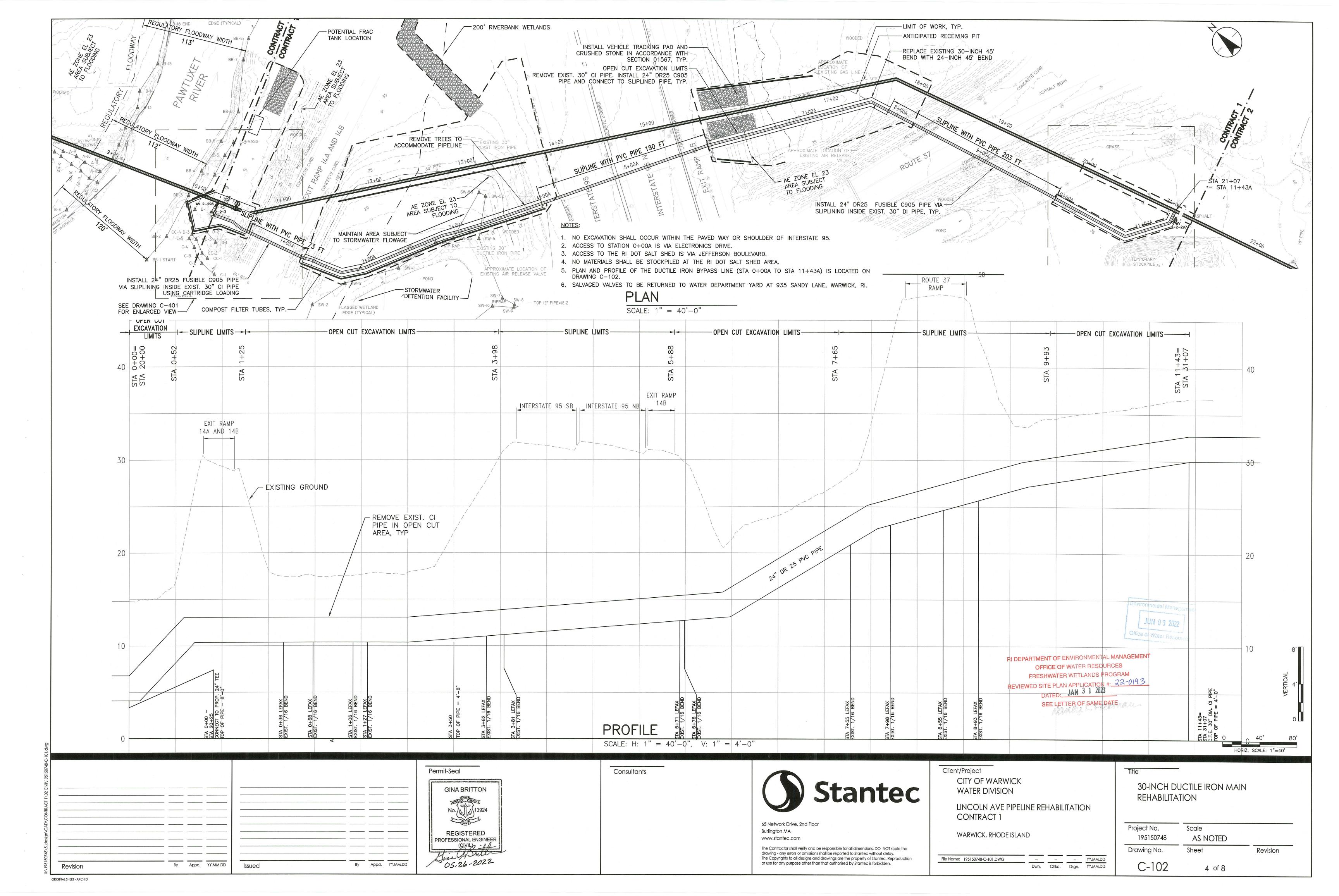
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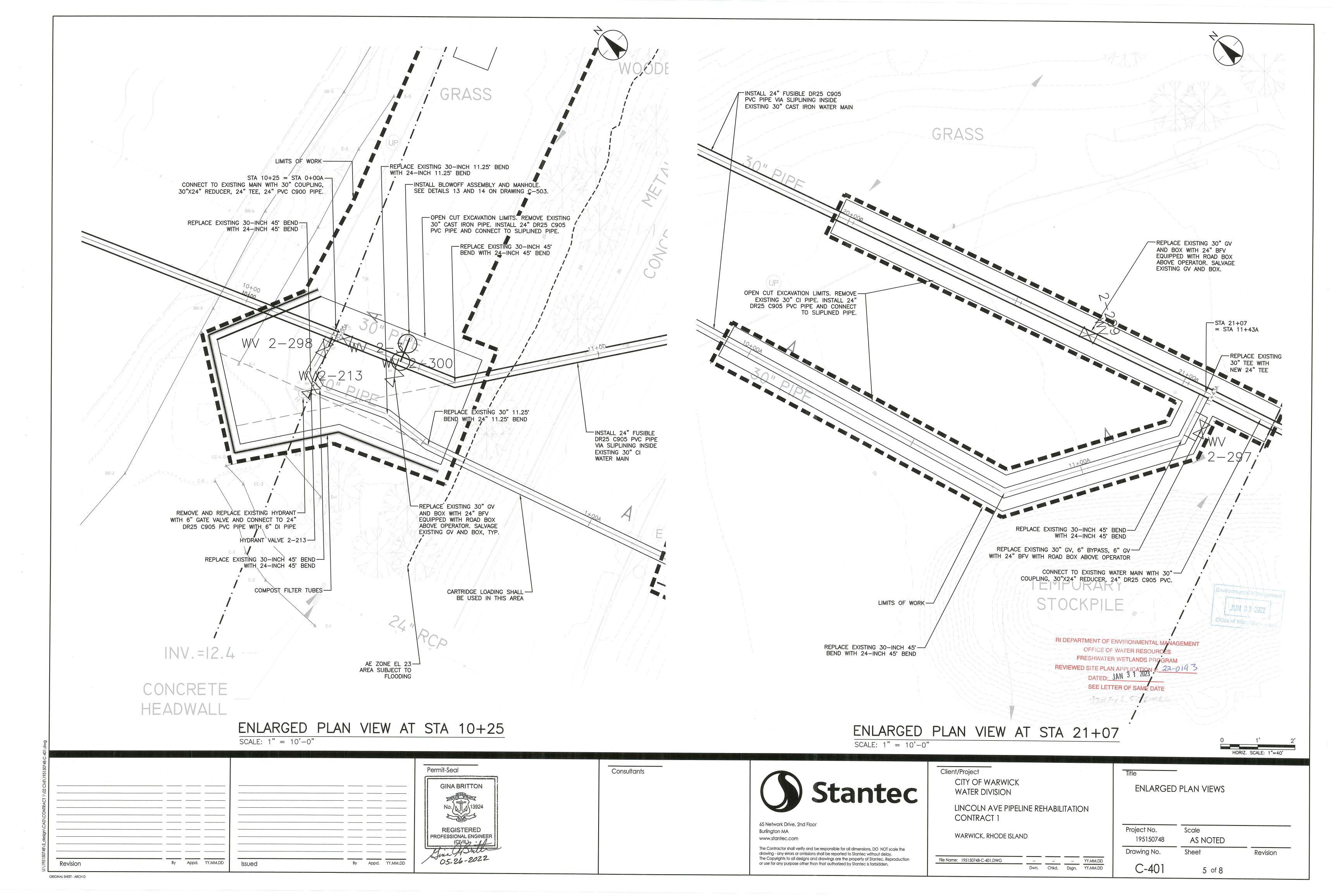
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ORIGINAL SHEET - ARCH D

Revision







GENERAL EROSION CONTROL NOTES:

IT IS THE INTENT OF THE CONTRACT PLANS AND DETAILS TO CONTROL EROSION AND SEDIMENTATION IN ALL PORTIONS OF THE SITE. THE CONTRACTOR IS ALERTED THAT CONTROL OF EROSION AND SEDIMENTATION IS CONSIDERED TO BE ESPECIALLY IMPORTANT IN AND AROUND THE AREAS SHOWN ON THE PLANS AND DELINEATED AS WETLANDS. THE CONTRACTOR IS TO IMPLEMENT THE EROSION AND SEDIMENTATION CONTROLS INDICATED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING NOTES. BUT IS ALERTED TO THE FACT THAT ADDITIONAL MEASURES MAY BE REQUIRED TO COMPLY WITH THIS INTENT, AS FIELD CONDITIONS MAY WARRANT. SHOULD SUCH MEASURES BE DETERMINED TO BE REQUIRED OR ORDERED BY THE ENGINEER, THEY ARE TO BE IMPLEMENTED IMMEDIATELY.

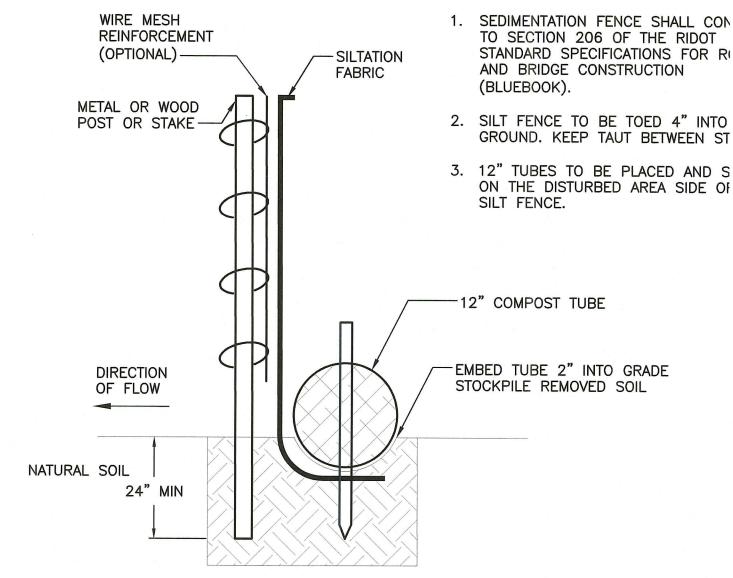
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE PROVISIONS OF ALL APPLICABLE PERMITS AND APPROVALS ISSUED BY LOCAL, STATE & FEDERAL REGULATION FOR ACTIVITIES INVOLVING WETLANDS, WATERCOURSES AND/OR FROSION CONTROLS. ALL FROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RHODE ISLAND SOIL AND EROSION AND SEDIMENT CONTROL HANDBOOK LAST REVISED 2016.
- TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITEWORK. SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITEWORK IS COMPLETED AND GROUND COVER IS ESTABLISHED (AT LEAST 75% UNIFORM COVERAGE BY NEW SEEDLINGS).
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROLS DAILY AND CLEAN ACCUMULATED MATERIALS FROM BEHIND THEM, AS NECESSARY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES FOUND TO BE IN NEED OF REPAIR OR REPLACEMENT SHALL BE IMMEDIATELY CORRECTED, SO AS TO MAINTAIN THE INTEGRITY OF THE EROSION AND SEDIMENTATION CONTROL SYSTEM.
- SEDIMENT REMOVED FROM CONTROL STRUCTURES SHALL BE DISPOSED IN A MANNER DESCRIBED IN THE MAINTENANCE PLAN FILED WITH THE CONSERVATION COMMISSION. NO EQUIPMENT OR MATERIAL OF ANY KIND SHALL BE STOCKPILED OR DEPOSITED IN ANY REGULATED AREA, UNLESS SPECIFICALLY SHOWN ON THE CONTRACT PLANS OR AUTHORIZED BY PROJECT PERMITS/APPROVALS.
- STOCKPILED SOIL SHALL BE SURROUNDED WITH SEDIMENTATION FENCES TO PREVENT AND CONTROL SILTATION AND EROSION. STOCKPILES THAT WILL REMAIN EXPOSED FOR MORE THAN 14 DAYS, SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER.
- ALL DISTURBED AREAS THAT WILL REMAIN EXPOSED OR UNDISTURBED SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER WITHIN SEVEN (7) DAYS OF THE END OF ACTIVITY OR BEFORE RAINFALL, WHICHEVER IS SOONER.
- CULVERT/PIPE INLETS AND OUTFALLS SHALL BE STABILIZED WITH STONE FOR PIPE ENDS OR OTHER APPROVED PERMANENT EROSION CONTROL MEASURES, IMMEDIATELY FOLLOWING PIPE INSTALLATION.
- THERE SHALL BE NO DIRECT DISCHARGE FROM ANY REQUIRED DEWATERING OPERATIONS INTO ANY WETLAND, WATERCOURSE, OR DRAINAGE SYSTEM AND THEN ONLY AS ALLOWED BY REGULATORY PERMITS. ANY DEWATERING DISCHARGE CONTAINING SETTLEABLE SOLIDS (SEDIMENTS) SHALL BE PASSED THROUGH A SEDIMENTATION CONTROL BASIN OR SIMILAR TREATMENT, APPROVED BY THE ENGINEER, TO REMOVE THESE SOLIDS. CONTRACTOR SHALL MAINTAIN SAID SEDIMENT CONTROL DEVICE THROUGHOUT THE ENTIRE DEWATERING OPERATION AND SHALL CEASE DEWATERING, IF DEFICIENCIES ARE NOTED, UNTIL THE DEFICIENCIES ARE CORRECTED.
- EARTHWORK ACTIVITY SHALL BE PERFORMED IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO THE TEMPORARY DRAINAGE SWALES AND SEDIMENTATION BASINS. IN NO CASE SHALL RUNOFF FROM ROADWAYS OR OTHER AREAS, UPGRADIENT FROM EMBANKMENTS, BE ALLOWED TO RUN DOWN ANY CUT OR FILL SLOPE, WITHOUT THE APPROVAL OF THE ENGINEER.
- 10. THE CONTRACTOR SHALL INSPECT ALL PORTIONS OF THE SITE IN ANTICIPATION OF RAINFALL EVENTS TO DETERMINE IF SITE GRADING IS SUFFICIENT TO PREVENT EROSION OF SLOPES AND/OR THE TRANSPORTATION OF SEDIMENTS TO WETLANDS OR WATERCOURSES, WITHIN THE PROJECT LIMITS. SHOULD ADDITIONAL MEASURES BE REQUIRED, THEY ARE TO BE IMPLEMENTED IMMEDIATELY. IN NO CASE SHALL THE INSTALLATION OF ADDITIONAL MEASURES, NECESSARY TO PROTECT SLOPES WITHIN THE PROJECT LIMITS, BE DELAYED BEYOND THE COMMENCEMENT OF
- 11. ALL DISTURBED EARTH SLOPES SHALL BE STABILIZED WITH PERMANENT VEGETATIVE COVER AS SOON AS POSSIBLE. DISTURBED AREAS, WHICH ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL RECEIVE A PERMANENT OR TEMPORARY VEGETATIVE COVER AS SOON AS FINAL CONTOURS ARE ESTABLISHED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A VEGETATIVE COVER, DISTURBED AREAS SHALL BE THOROUGHLY MULCHED MULCHED AREAS SHALL BE SEEDED AS SOON AS WEATHER CONDITIONS ALLOW.
- 12. ALL SLOPES STEEPER THAN 2H:1V SHALL BE COVERED WITH MODIFIED ROCKFILL AND AN APPROVED EROSION CONTROL MATTING. SEE SLOPE EROSION CONTROL DETAIL FOR SLOPES STEEPER THAN 2H:1V.
- 13. A STOCKPILE OF EXTRA SEDIMENTATION FENCE AND CRUSHED STONE SHALL BE KEPT ON SITE THROUGHOUT THE CONSTRUCTION WORK. THIS MATERIAL SHALL BE INSTALLED TO MITIGATE ANY EROSION/SEDIMENTATION CONDITIONS WHICH MAY ARISE.
- 14. FOR LOCATION OF PROPOSED EROSION CONTROL MEASURES, SEE PLANS. AREAS DISTURBED BY EROSION BARRIERS, SHALL BE LOAMED AND SEEDED, OR OTHERWISE RESTORED TO ORIGINAL CONDITIONS.
- CONTRACTOR SHALL REMOVE ALL SEDIMENTATION CONTROL SYSTEMS, REMOVE ALL ACCUMULATED SEDIMENTS, AND SEED THE DISTURBED AREAS, WHEN THE CONTROL SYSTEMS ARE NO LONGER REQUIRED. CONTRACTOR SHALL REQUEST AND RECEIVE PERMISSION FROM THE ENGINEER PRIOR TO REMOVING ANY CONTROL SYSTEM.
- REFER TO SECTION 02240, SECTION 01000 PARAGRAPH 1.04T, AND GENERAL NOTE #23 ON C-001.

CONSTRUCTION SPECIFICATIONS ON SEDIMENTATION AND EROSION CONTROL:

- 1. EROSION CONTROL MEASURE SHALL BE INCORPORATED IN THE SEQUENCE OF CONSTRUCTION TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE
- 2. AREAS SUBJECT TO EROSION SHALL BE MINIMIZED IN TERMS OF TIME AND
- 3. IN GENERAL, WORK REQUIRING EROSION CONTROL INCLUDED EXCAVATIONS, FILLS, DRAINAGE, SWALES AND DITCHES, ROUGH AND FINISH GRADING, AND STOCKPILING OF EARTH.
- 4. DO NOT DISTURB VEGETATION AND TOPSOIL BEYOND THE PROPOSED LIMIT OF SILT FENCE ACTIVITIES.
- THE CONTRACTOR SHALL REMOVE TEMPORARY SEDIMENTATION FENCE AND STRAW BALE DIKES AND ALL ACCUMULATED SILT AND DEBRIS AFTER COMPLETION OF CONSTRUCTION OPERATIONS. HAYBALE DIKES SHALL BE IN PLACE AT ALL TIMES DURING CONSTRUCTION.
- 6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SILT AND DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS FROM EACH DRAINAGE STRUCTURE UPON COMPLETION OF THE PROJECT.
- OBJECTS AND/OR AREAS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION.
- 8. THE CONTRACTOR SHALL REPLACE ANY SECTION OF STRAW BALES OR SEDIMENTATION FENCES DAMAGED DURING ANY PHASE OF CONSTRUCTION.

CONSTRUCTION SPECIFICATIONS FOR STAKED STRAW BALES:

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3". BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY PLACED BALE TO FORCE THE BALES TOGETHER. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS DIRECTED BY THE ENGINEER. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



1. SEDIMENTATION FENCE SHALL CON TO SECTION 206 OF THE RIDOT STANDARD SPECIFICATIONS FOR RI

2. SILT FENCE TO BE TOED 4" INTO

3. 12" TUBES TO BE PLACED AND S ON THE DISTURBED AREA SIDE OF

-FILTER FABRIC BELOW CRUSHED STONE

10' APPROX -

LAYER, OVERLAP ABOVE STRAW BALES

FILTER BAG -

—BALED STRAW

TUBES CAN BE PLACED

DIRECTLY ON EXISTING

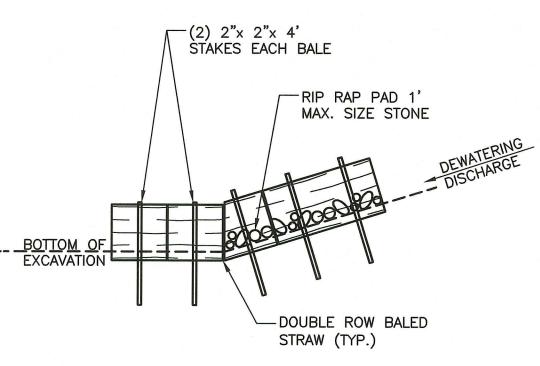
SEDIMENTATION CONTROL BASIN

SCALE: NOT TO SCALE

AREA OF DISTURBANCE

DIRECTION OF FLOW

--- DEWATERING DISCHARGE RIP RAP PAD 1 MAX SIZE STONE - SILTATION **FABRIC** -DOUBLE ROW BALED STRAW BOTTOM III OF SLOPE



SECTION A-A

SAMPLE

FODS

TYPICAL ONE-LANE LAYOUT

Consultants

SCALE: NOT TO SCALE

KEY NOTES:

A. FODS TRACKOUT CONTROL SYSTEM MAT

B. FODS SAFETY SIGN.
C. ANCHOR POINT.
D. SILT OR ORANGE CONSTRUCTION FENCE.

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO EFFECTIVELY REMOVE MOST SEDIMENT FROM VEHICLE TIRES AS THEY EXIT A DISTURBED LAND AREA ONTO A PAVED STREET. THIS MANUAL IS A PLATFORM FROM WHICH TO INSTALL A FODS TRACKOUT CONTROL SYSTEM. (NOTE: THIS IS NOT A ONE SIZE FITS ALL GUIDE.) THE INSTALLATION MAY NEED TO BE MODIFIED TO MEET THE EXISTING CONDITIONS, EXPECTATIONS, OR DEMANDS OF A PARTICULAR SITE. THIS IS A GUIDELINE. ULTIMATELY THE FODS TRACKOUT CONTROL SYSTEM SHOULD BE INSTALLED SAFELY WITH PROPER ANCHORING AND SIGNS PLACED AT THE ENTRANCE AND EXIT TO CAUTION USERS AND OTHERS. INSTALLATION:

1. THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED SHOULD CORRESPOND TO BEST MANAGEMENT PRACTICES AS MUCH AS POSSIBLE. THE SITE WHERE FODS TRACKOUT CONTROL SYSTEM IS PLACED SHOULD ALSO MEET OR EXCEED THE LOCAL JURISDICTION. CALL FOR UTILITY LOCATES 3 BUSINESS DAYS IN DVANCE OF THE OF FODS TRACKOUT CONTROL SYSTEM INSTALLATION FOR THE MARKING OF UNDERGROUND
UTILITIES. CALL THE UTILITY NOTIFICATION CENTER AT 811. ONCE THE SITE IS ESTABLISHED WHERE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS, OR SUDDEN ABRUPT CHANGES IN ELEVATION 4. THE INDIVIDUAL MATS CAN START TO BE PLACED INTO POSITION. THE FIRST MAT SHOULD BE PLACED NEXT TO THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE

COMPOST TUBE WITH SILTATION FENCE

FODS TRACKOUT CONTROL SYSTEM INSTALLATION

VEHICLE WILL EXIT STRAIGHT FROM THE SITE ONTO THE PAVED SURFACE.

B. AFTER THE FIRST MAT IS PLACED DOWN IN THE PROPER OCATION, MATS SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN AFTER THE FIRST MAT IS ANCHORED IN ITS PROPER LACE, AN H BRACKET SHOULD BE PLACED AT THE END OF HE FIRST MAT BEFORE ANOTHER MAT IS PLACED ADJACENT TO THE FIRST MAT. ONCE THE SECOND MAT IS PLACED ADJACENT TO THE SITUATED BETWEEN THE TWO MATS, AND SLIDE MATS

NEXT THE CONNECTOR STRAPS SHOULD BE INSTALLED CONNECT THE TWO MATS TOGETHER.

UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM, AT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POL TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS. SUCCESSIVE MATS CAN THEN BE PLACED TO CREAT HE FODS TRACKOUT CONTROL SYSTEM REPEATING THE

USE AND MAINTENANCE

1. VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL MAKE A SHALLOW S-TU ROUTE DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM. MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN
THE PYRAMIDS BECOME FULL OF SEDIMENT. TYPICALLY THIS
WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT, BRUSHING IS THE PREFERRED METHOD OF SLEANING, EITHER MANUALLY OR MECHANICALLY.

THE USE OF ICE MELT, ROCK SALT, SNOW MELT,
DE-ICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING

REMOVAL

1. REMOVAL OF FODS TRACKOUT CONTROL SYSTEM IS REVERSE ORDER OF INSTALLATION.
2. STARTING WITH THE LAST MAT, THE MAT THAT IS PLACED AT THE INNERMOST POINT OF THE SITE OR THE MAT FURTHEST FROM THE EXIT OR PAVED SURFACE SHOULD E MOVED FIRST.

THE ANCHORS SHOULD BE REMOVED. THE CONNECTOR STRAPS SHOULD BE UNBOLTED AT

THE WINTER MONTHS AND AFTER A SNOW EVENT TO

LL LOCATIONS IN THE FODS TRACKOUT CONTROL SYSTEM STARTING WITH THE LAST MAT IN THE SYSTEM, EACH UCCESSIVE MAT SHOULD THEN BE MOVED AND STACKED FOR LOADING BY FORKLIFT OR EXCAVATOR ONTO A TRUC

PAVEMENT WHEN NECESSARY. DIRECTION OF FLOW EXISTING **PAVEMENT** EXISTING HEADWALL OR OTHER OBSTACLE STREAM AREA OF DISTURBANCE PROTECTED AREA DIRECTION OF FLOW

1. PLACING TUBES AGAINST THE UPHILL SIDE OF WELL ANCHORED. STATIONARY FEATURES SUCH AS EXISTING TREES CAN PROVIDE ADDITIONAL BRACING. 2. CURVE ENDS UPHILL TO

PREVENT DIVERSION OF MANAGEMENT RI DEPAUNIMETERED RUNDOFF. OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM DATED 3 1 2023

TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING TUBES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM. REVIEWED SITE PLAN APPLICATION #: 22-0193 2. SECURE ENDS OF TUBES WITH STAKES SPACED 18

PLAN VIEW - JOIN DETAIL

INCHES APART PLACED IN FRONT OF AND BEHIND OVERLAP.

1. PROVIDE A 3 FEET MINIMUM OVERLAP AT ENDS OF TUBES

NOTES:

- DEWATERING DISCHARGE

-3/4" CRUSHED STONE

LAYER BELOW FILTER BAG

-FILTER BAG

-BALED STRAW

FILTER BAG

3/4" CRUSHED STONE

6" DEEP LAYER BELOW

— DEWATERING DISCHARGE

PROTECTED AREA

3 FEET MIN

-UNTREATED HARDWOOD

-COMPOST FILTER TUBE OF

MINIMUM 12" Ø (TYP)

-LOOSE COMPOST LAYER

JUN 0 3 2022

STAKE (TYP)

1. SEDIMENTATION CONTROL

AND INSTALLED TO

HANDLE ALL OF THE

DEWATERING NECESSARY

DURING CONSTRUCTION.

CONTRACTOR TO INSTALL

AND MAINTAIN MULTIPLE

SEDIMENTATION BASINS

DEWATERING DISCHARGE

AS NECESSARY TO

HANDLE ALL TRENCH

REQUIREMENT OF ALL

TO BE LOCATED WITHIN

NON-PAVED AREAS.

EXCEED A TURBIDITY

STANDARD OF 5 NTU.

AND MEET THE

2. SEDIMENTATION BASINS

DISCHARGE SHALL NOT

PERMITS.

BASINS SHALL BE SIZED

YY.MM.DD

Dwn. Chkd. Dsgn. YY.MM.DD

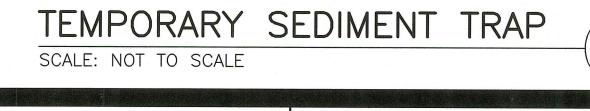
PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.

2. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.

PLAN VIEW

- 3. DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
- 4. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.

COMPOST FILTER TUBE SCALE: NOT TO SCALE



VEHICLE TRACKING PAD SCALE: NOT TO SCALE

Permit-Seal **GINA BRITTON** REGISTERED PROFESSIONAL ENGINEER Jin GBrill 05.26-2022 By Appd. YY.MM.DD By Appd. YY.MM.DD Revision Issued



GENERAL NOTES FOR COMPOST FILTER TUBE:

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Client/Project CITY OF WARWICK WATER DIVISION LINCOLN AVE PIPELINE REHABILITATION

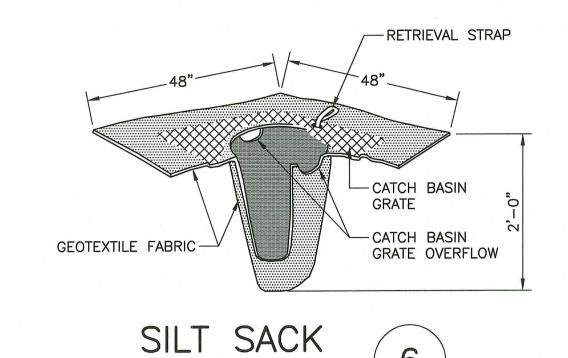
CONTRACT 1

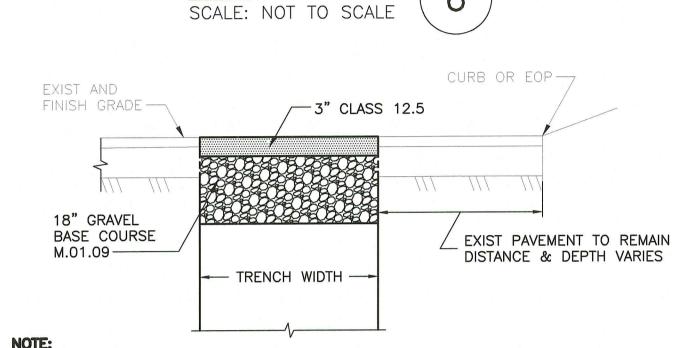
WARWICK, RHODE ISLAND File Name: 195150748-C-501.DWG

SEDIMENTATION AND EROSION CONTROL NOTES AND DETAILS

Project No. Scale 195150748 AS NOTED Drawing No. Sheet Revision C-50 6 of 8

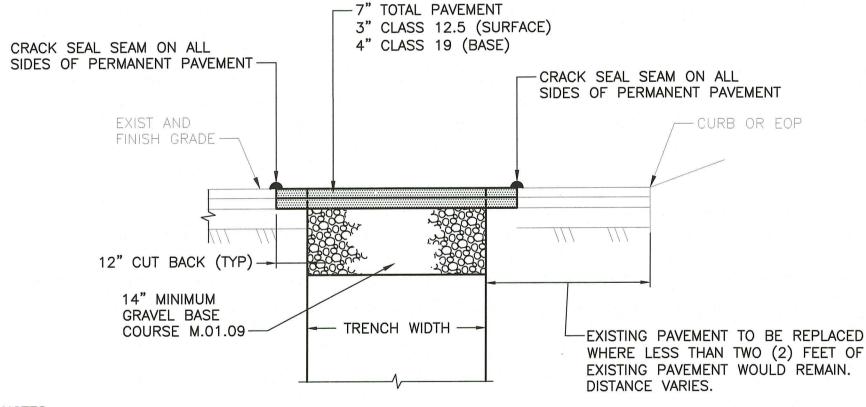
ORIGINAL SHEET - ARCH D





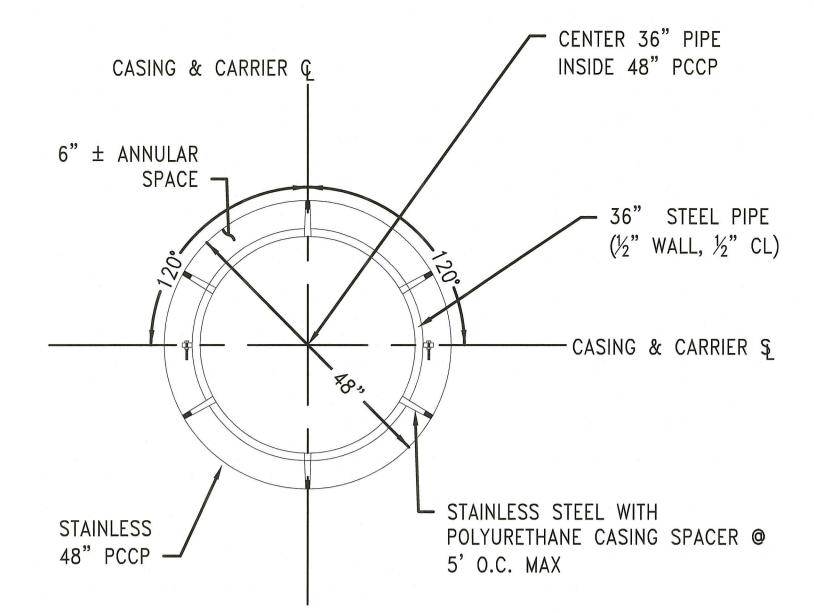
1. TACK COAT ALL VERTICAL SURFACES OF EXISTING PAVEMENT.

TEMPORARY TRENCH PAVEMENT SCALE: NOT TO SCALE



NOTES:

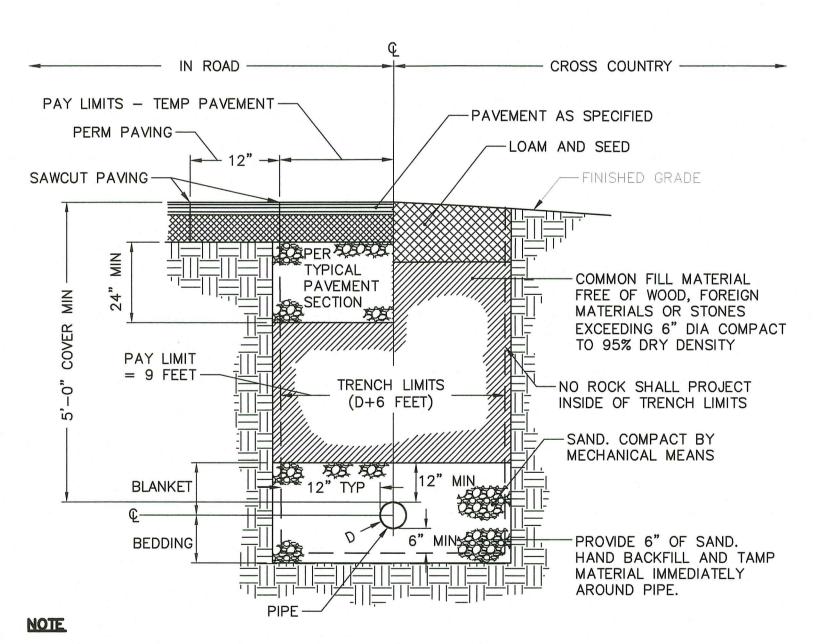
- 1. TACK COAT ALL VERTICAL SURFACES OF EXISTING PAVEMENT.
- 2. SURFACE COURSE AND INTERMEDIATE COURSE SHALL COMPLY WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 3. GRAVEL SUB-BASE AND SAND ARE SPECIFIED IN SECTION 02200.
- 4. WITH SALT SHED, CUT BACK SHALL BE NO LESS THAN 4 FEET ON EITHER SIDE OF THE TRENCH, AND FINAL PAVEMENT SHALL BE A MINIMUM OF 20 FEET WIDE.



- CONTRACTOR SHALL SUBMIT AND IMPLEMENT PLAN TO PREVENT FLOTATION OF CARRIER PIPE DURING BACKFILL GROUTING.
- 2. FILL ANNULAR SPACE WITH GROUT IN ACCORDANCE WITH SPECIFICATION SECTION 02449.
- 3. SEE SPECIFICATION SECTION 02515 FOR REQUIRED STEEL PIPE THICKNESSES.

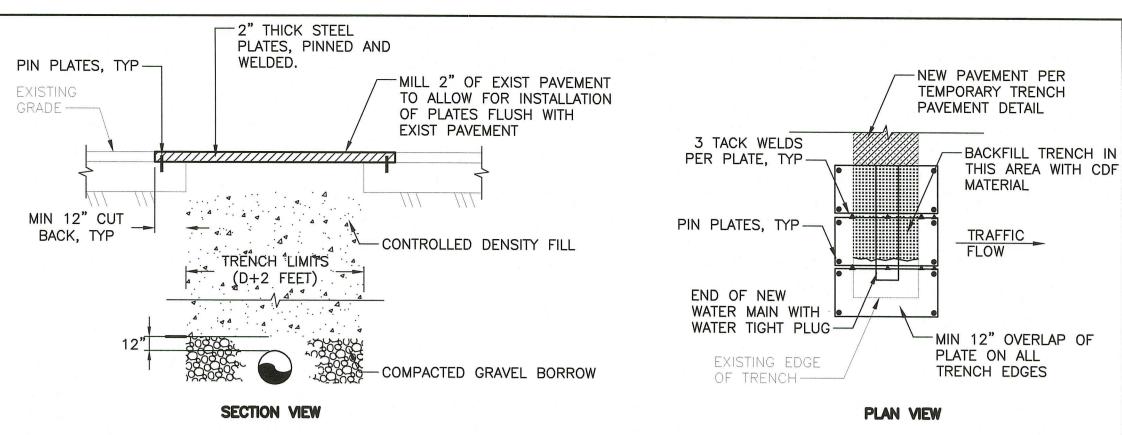
SECTION J-J

36" WELDED STEEL PIPE WITHIN 48" EXIST. SCALE: N.T.S.

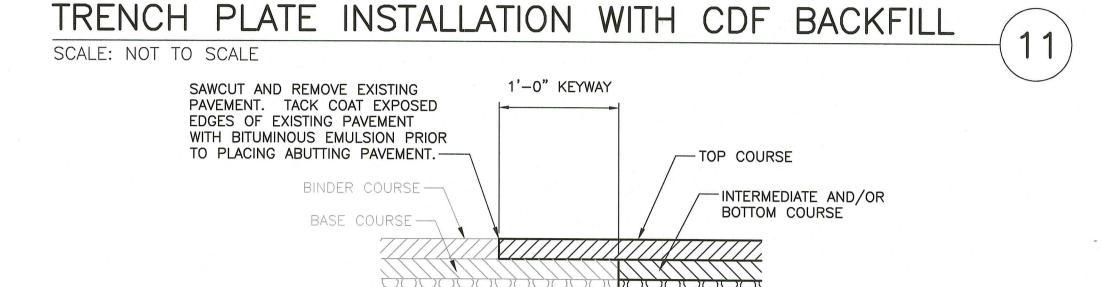


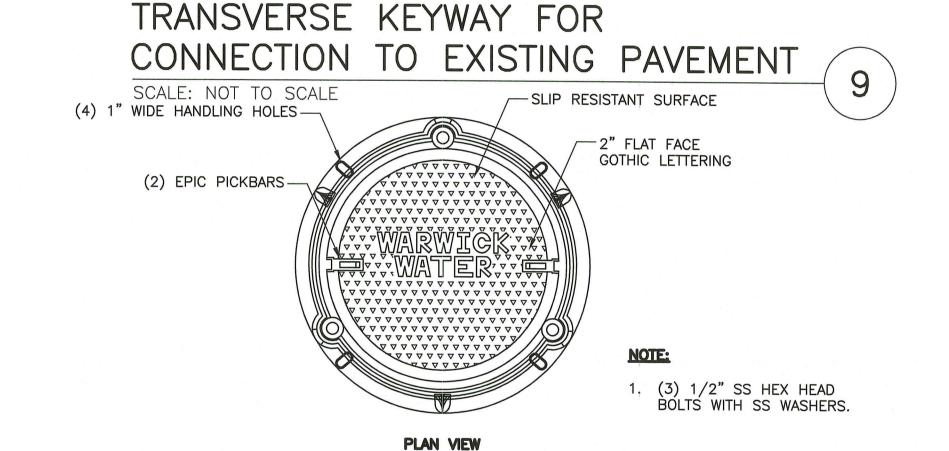
1. COMPACTION TO BE IN ACCORDANCE WITH SPECIFICATION SECTION 02200.

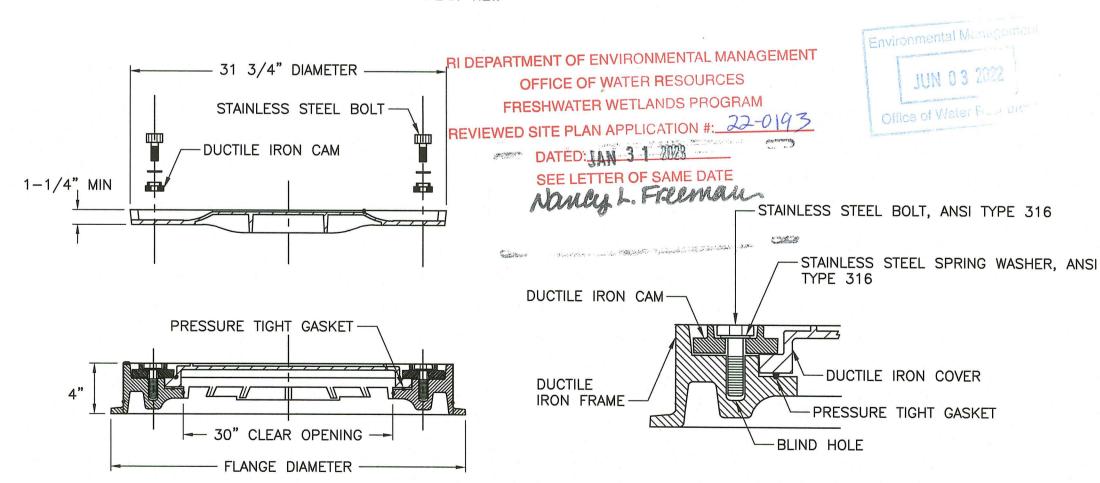




- 1. PLATES TO BE USED WHILE CDF IS CURING.
- MAXIMUM DEFLECTION ALLOWABLE OF PLATES IS 3/4-INCH.
- PLATE PINS SHALL BE MINIMUM 1-INCH DIAMETER SPIKE AND 8-INCHES IN LENGTH.







36-INCH MANHOLE FRAME AND COVER SCALE: NOT TO SCALE

PERMANENT TRENCH PAVEMENT (RIDOT) SCALE: NOT TO SCALE

Permit-Seal **GINA BRITTON** REGISTERED ROFESSIONAL ENGINEER (CIVIL) -1A 05.26-2022 By Appd. YY.MM.DD

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WARWICK, RHODE ISLAND

File Name: 195150748-C-501.DWG

MISCELLANEOUS CIVIL DETAILS - PART 1

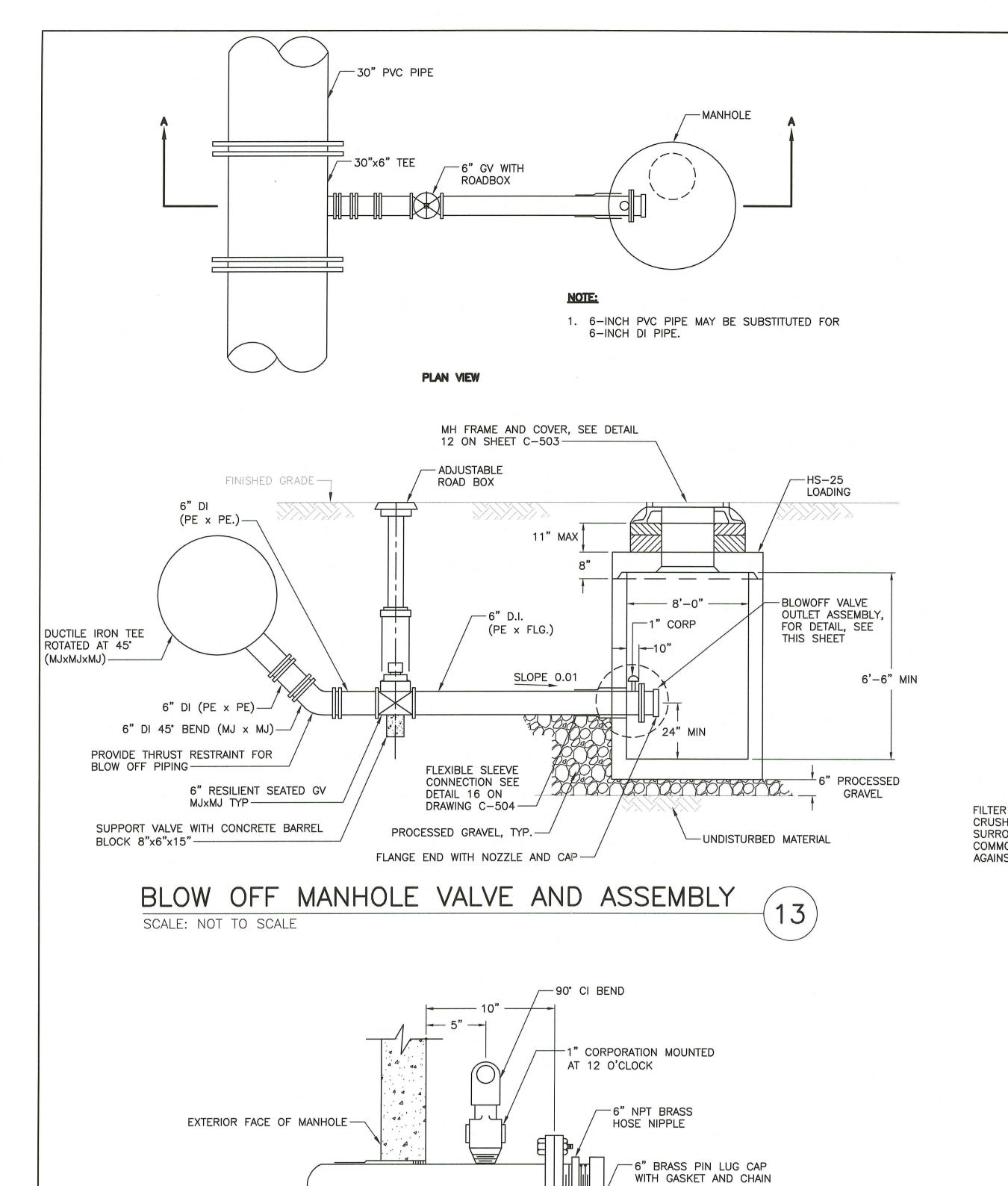
Project No. Scale AS NOTED 195150748 Drawing No. Revision YY.MM.DD C-502 Dwn. Chkd. Dsgn. YY.MM.DD 7 of 8

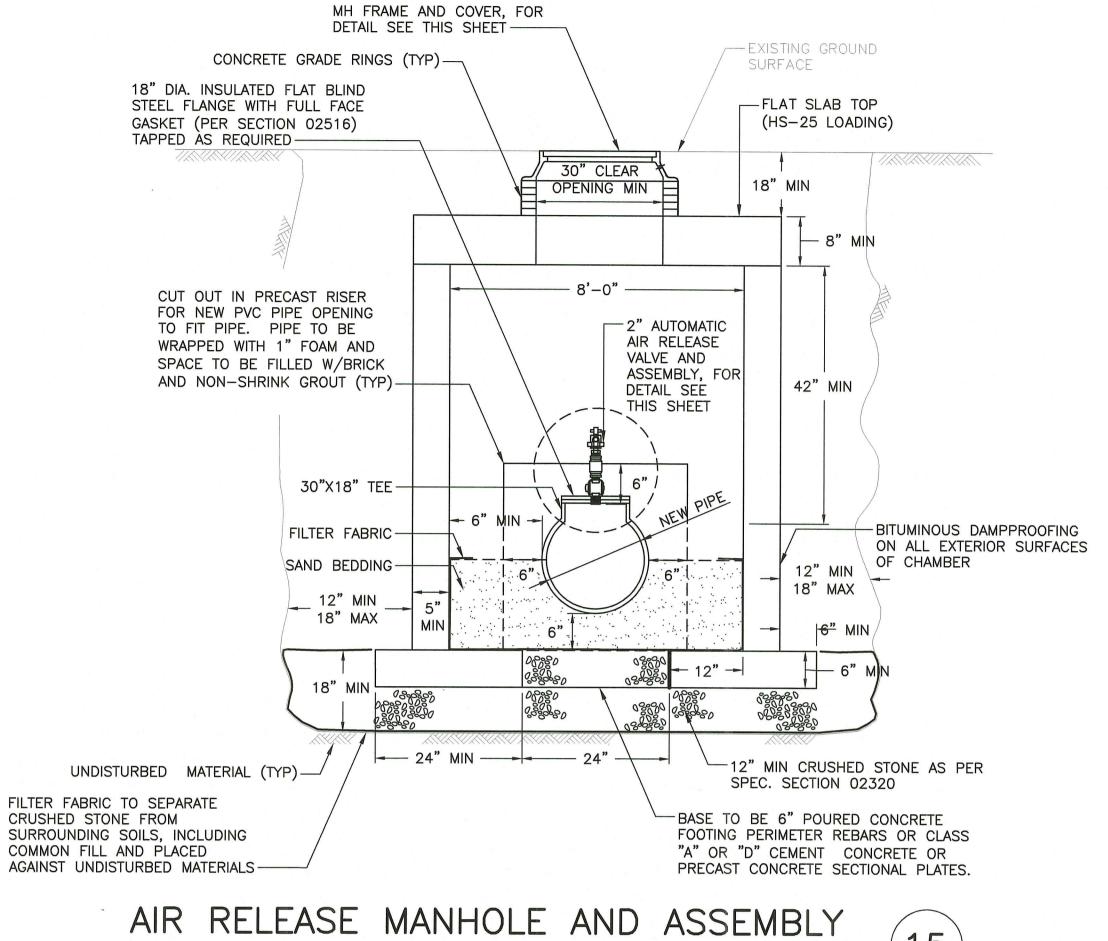
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ORIGINAL SHEET - ARCH D

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2" INLET AUTO AIR
RELEASE VALVE

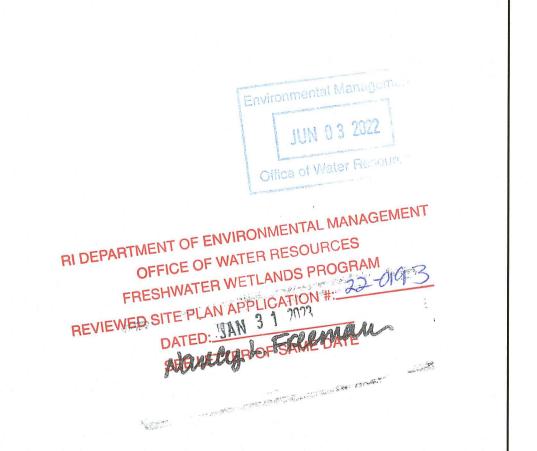
1-1/2"x2" BUSHING

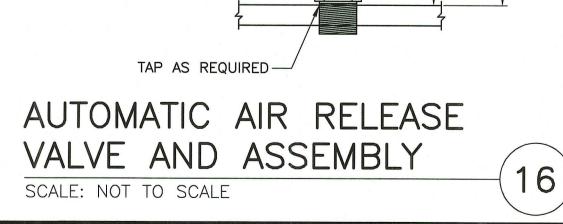
1-1/2"

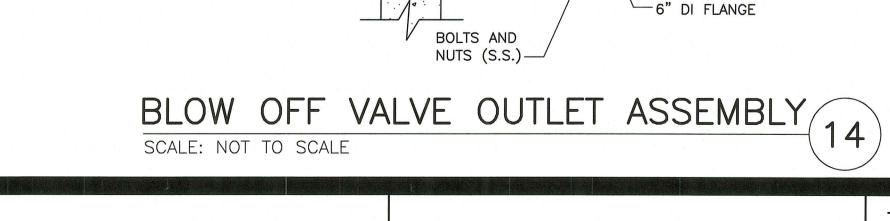
ASSEMBLY

TAP AS REQUIRED

SCALE: NOT TO SCALE







ORIGINAL SHEET - ARCH D

6" D.I. (PExFL)—

Permit-Seal

GINA BRITTON

No. J. 13924

REGISTERED

PROFESSIONAL ENGINEER

(CIVIL): J. J.

Sevision

By Appd. YY.MM.DD Issued

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Client/Project
CITY OF WARWICK
WATER DIVISION

LINCOLN AVE PIPELINE REHABILITATION CONTRACT 1

WARWICK, RHODE ISLAND

File Name: 195150748-C-501.DWG — -- YY.MM.DD

Dwn. Chkd. Dsgn. YY.MM.DD

MISCELLANEOUS CIVIL DETAILS – PART 2

Project No.
195150748

AS NOTED

Drawing No.
Sheet Revision

C-503

8 of 8