

# LIST OF VOLUMES

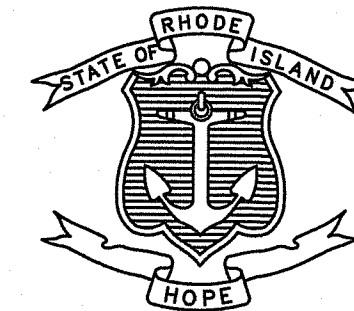
VOLUME 1 - HIGHWAY ROUTE I-95 / ROUTE 4 INTERCHANGE  
VOLUME 2 - HIGHWAY ROUTE 403 RAMPS  
VOLUME 3 - BRIDGE NO. 100001

## INDEX VOLUME 1

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3 & 4	STANDARD NOTES - 1 & 2
5	JOB SPECIFIC PLAN SYMBOLS, LEGEND, NOTES & DETAILS
6	KEY PLAN
7	TYPICAL SECTIONS
8 - 10	MISCELLANEOUS DETAILS 1 - 3
11 - 24	GENERAL PLANS 1 - 14
25 - 38	DRAINAGE AND UTILITY PLANS 1 - 14
39 - 43	DRAINAGE DETAILS 1 - 5
44	RAMP ES FLOODPLAIN COMPENSATION
45 - 49	PROFILE PLANS 1 - 5
50 - 62	SIGNING & STRIPING PLANS 1 - 13
63	SIGNAL PLAN
64 - 70	LIGHTING PLANS AND DETAILS 1 - 7
71 - 77	MAINTENANCE AND PROTECTION OF TRAFFIC DETAILS 1 - 7
78 - 80	SEQUENCE OF CONSTRUCTION 1 - 3

NOTE:  
MISC. DETAILS 2&3 EXCLUDED  
FROM REGULATORY SUBMISSION

## STATE OF RHODE ISLAND



# DEPARTMENT OF TRANSPORTATION

## PLAN, PROFILE AND SECTIONS OF PROPOSED STATE HIGHWAY VOLUME 1

## BRIDGE GROUP 95 ROUTE I-95 AND ROUTE 4 INTERCHANGE

### PROJECT LIMITS

I-95 SOUTHBOUND EXIT NO. 24 TO ROUTE 4 AND QUAKER LANE ON RAMP TO I-95 SOUTHBOUND  
TOWNS OF EAST GREENWICH & WEST WARWICK, CITY OF WARWICK  
COUNTY OF KENT

### R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AUGUST 2023, WITH ALL REVISIONS AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.

R.I. CONTRACT NO. 2024-DB-020 F.A. PROJECT NO.

### PAVEMENT STRUCTURES

PVT1 1 1/2" FRICTION COURSE  
2" MODIFIED CLASS 12.5 HMA  
7" CLASS 19 HMA  
12" GRAVEL BORROW SUBBASE COURSE

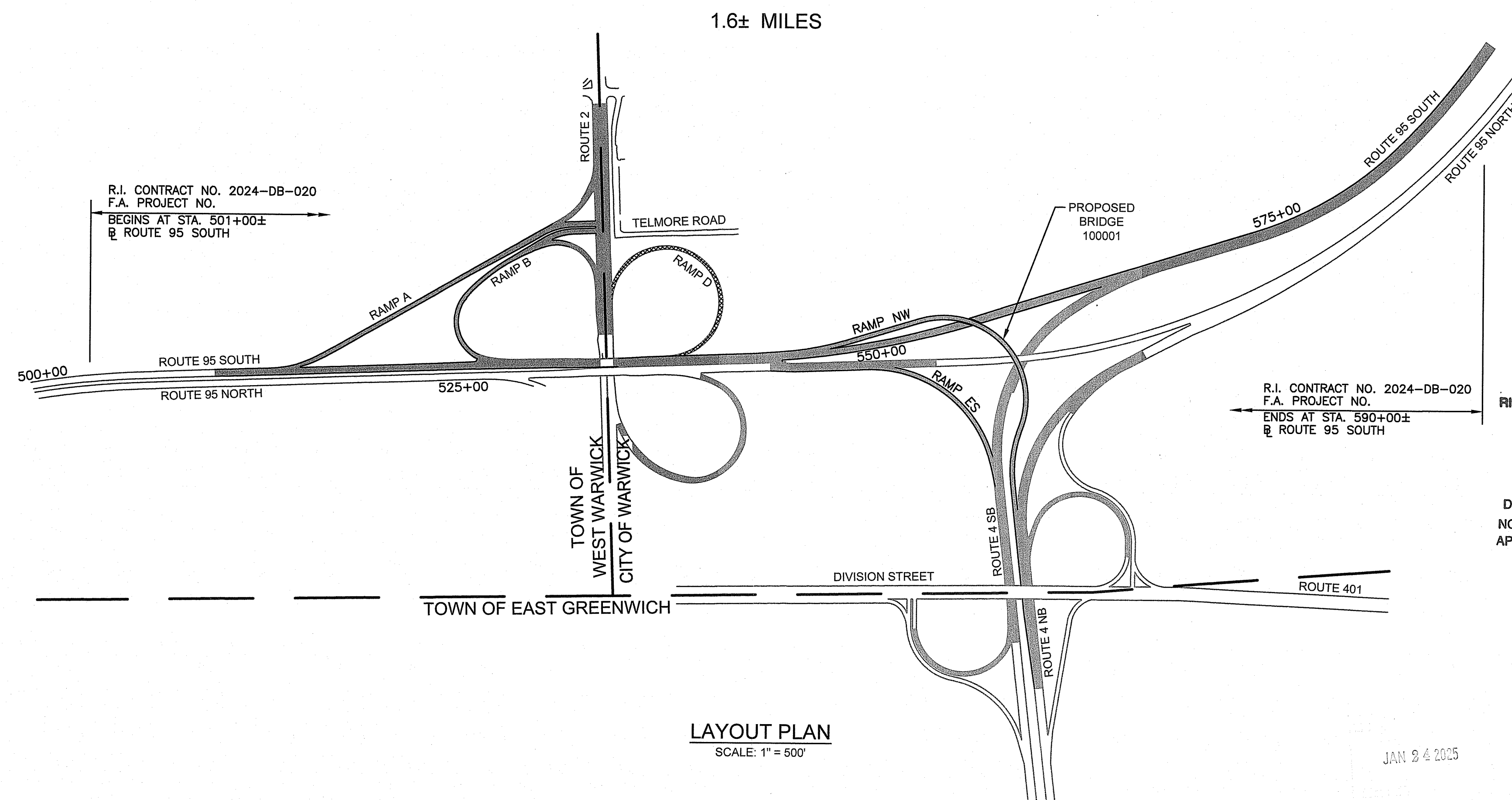
PVT2 1 1/2" FRICTION COURSE  
2" MODIFIED CLASS 12.5 HMA  
MICRO-MILLING (3-INCH DEPTH)

PVT3 2" MODIFIED CLASS 12.5 HMA  
5" CLASS 19 HMA  
12" GRAVEL BORROW SUBBASE

PVT4 2" MODIFIED CLASS 12.5 HMA  
MICRO-MILL (2" DEPTH)

### HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:  
- Route 95 Northbound  
- Route 4 northbound  
Refer to Note 18 on Sheet 3



LAYOUT PLAN  
SCALE: 1" = 500'

### SCALES OF DRAWINGS

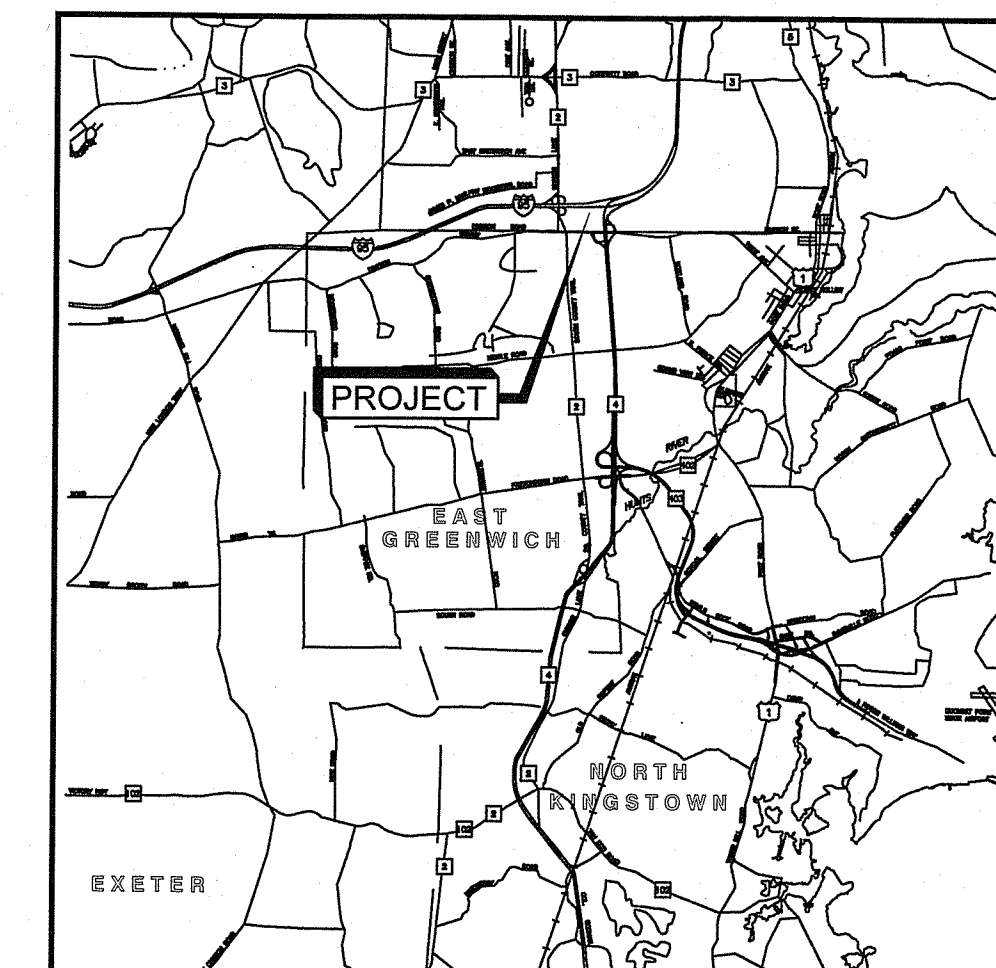
Plans	1 inch = 40 feet
Profiles	1 inch = 20 feet Horizontal
Profiles	1 inch = 4 feet Vertical
Cross Sections	1 inch = 4 feet Horizontal
Cross Sections	1 inch = 4 feet Vertical

BASE OF LEVELS  
NAVD 88  
NAD 83 (2011)



REGULATORY SUBMISSION SHEET 1 OF 42

RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	1	80



LOCATION MAP  
SCALE: 1" = 2 MILES

### DESIGN DESIGNATIONS

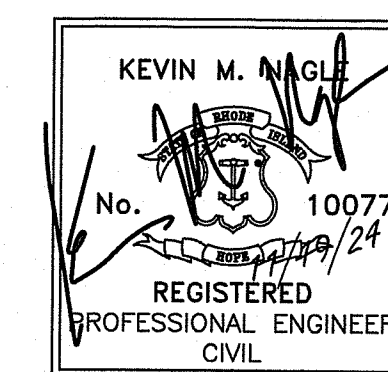
	I-95 NB	I-95 SB	RTE. 4 NB
AADT (2025)	30,585 V.P.D.	39,012 V.P.D.	41,353 V.P.D.
AADT (2050)	32,300 V.P.D.	41,200 V.P.D.	43,700 V.P.D.
D	100%	100%	100%
K	7.4%	8.0%	11.3%
T	2%	2%	2%
DDHV	2,390 V.P.H.	3,296 V.P.H.	4,938 V.P.H.
DHV	2,390 V.P.D.	3,296 V.P.D.	4,938 V.P.D.
DESIGN SPEED	75 M.P.H.	65 M.P.H.	65 M.P.H.

	RTE. 4 SB	RAMP ES	RAMP NB
AADT (2025)	40,548 V.P.D.	N/A	N/A
AADT (2050)	42,800 V.P.D.	4,400 V.P.D.	10,000 V.P.D.
D	100%	100%	100%
K	8.6%	8%	8%
T	2%	8%	8%
DDHV	3,621 V.P.H.	352 V.P.H.	800 V.P.H.
DHV	3,621 V.P.D.	352 V.P.D.	800 V.P.D.
DESIGN SPEED	65 M.P.H.	45 M.P.H.	40 M.P.H.

	RAMP A	RAMP B	RTE. 2
AADT (2025)	4,033 V.P.D.	5,872 V.P.D.	2,730 V.P.D.
AADT (2050)	4,300 V.P.D.	6,200 V.P.D.	2,900 V.P.D.
D	100%	100%	62/38 (NB/SB)
K	9%	11.6%	9%
T	2%	2%	2%
DDHV	387 V.P.H.	720 V.P.H.	261 V.P.H.
DHV	387 V.P.D.	720 V.P.D.	162 V.P.D.
DESIGN SPEED	30 M.P.H.	30 M.P.H.	30 M.P.H.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE # 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

REGULATORY  
SUBMISSION  
NOVEMBER 2024



Contract Number 2024-DB-020  
Number of Sheet 1  
Total Sheets 80

APPROVED	DATE
DIRECTOR, DIVISION OF PROJECT MANAGEMENT	
APPROVED	DATE
CHIEF ENGINEER OF INFRASTRUCTURE	
APPROVED	DATE
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
DIVISION ADMINISTRATOR	



I:\FILES\2024\04978\_Route 4 IS (03)Project Plan\SYM\REV2.dwg, 02/02/2024 11:15:00 AM, Mfrancesco

EXISTING		NEW		REGULATORY SUBMISSION SHEET 2 OF 42	
				RI CONTRACT NO. 2024-DB-020	
				FISCAL YEAR 2024	
				SHEET NO. 2	
				TOTAL SHEETS 80	
EDGE OF PAVEMENT		BERM		43.5.0 CEMENT CONCRETE DRIVEWAYS	
CURB		CONCRETE CONNECTING COLLAR		48.1.0 DETECTABLE WARNING SYSTEM	
GUARDRAIL		CONCRETE HEADWALLS FOR PIPE CULVERTS		51.1.0 TREE PROTECTION DEVICE	
MAILBOX		STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS		51.1.1 DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES	
UTILITY POLE		PRECAST CONCRETE FLARED END SECTION		51.2.0 SHRUB PROTECTION DEVICE	
POLE GUY		BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE		51.3.0 TREE WELL	
LUMINAIRE		BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE		51.4.0 TREE WALL	
SIGN		BRICK/SOLID BLOCK TYPE "d" SQUARE CATCH BASIN		AB ADJUST CATCH BASIN TO GRADE	
SUBDRAIN		BRICK/SOLID BLOCK TYPE "f" SQUARE CATCH BASIN		ABM ADJUST CATCH BASIN TO MANHOLE	
STORMDRAIN		SOLID BLOCK FLUSH SQUARE CATCH BASIN		AC ADJUST CURB STOP TO GRADE	
SANITARY SEWER		BRICK/SOLID BLOCK TYPE "d" ROUND CATCH BASIN		AD ADJUST DRAINAGE MANHOLE TO GRADE	
WATER MAIN		BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET		AE ADJUST ELECTRIC MANHOLE TO GRADE	
GAS MAIN		BRICK/SOLID BLOCK TYPE "f" ROUND CATCH BASIN		AFC ADJUST FRAME AND COVER TO GRADE	
TELEPHONE DUCT		BRICK/SOLID BLOCK TYPE "r" CATCH BASIN		AFG ADJUST FRAME AND GRATE TO GRADE	
ELECTRIC DUCT		SOLID BLOCK FLUSH ROUND CATCH BASIN		AG ADJUST GAS GATE BOX TO GRADE	
PLUG AND CAP PIPE		BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN		AHH ADJUST HANDHOLE TO GRADE	
ABANDONED UTILITY		SOLID BLOCK SHALLOW TYPE "f" SQUARE CATCH BASIN		AS ADJUST SANITARY SEWER MANHOLE TO GRADE	
FLARED END SECTION		SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN		AT ADJUST TELEPHONE MANHOLE TO GRADE	
HEADWALL		BRICK/SOLID BLOCK DROP INLET		AW ADJUST WATER GATE BOX TO GRADE	
WATER OR GAS GATE		BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"		BCD BITUMINOUS CONCRETE DRIVEWAY 3" CLASS 9.5 HMA 8" GRAVEL BORROW SUBBASE COURSE	
CATCH BASIN		PRECAST 4'-0" ROUND MANHOLE		BPS BUILD NEW STRUCTURE OVER EXISTING PIPE	
MANHOLE		PRECAST 5'-0" ROUND MANHOLE		CCB CLEAN CATCH BASIN	
HYDRANT		PRECAST 6'-0" ROUND MANHOLE		CCP CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)	
BASELINE OR CENTERLINE		PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN		CFP CLEAN AND FLUSH PIPE	
STATE HIGHWAY LINE		PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN		CG CLEARING AND GRUBBING	
STATE FREEWAY LINE		PRECAST CONCRETE DROP INLET		CMH CLEAN MANHOLE	
PERMANENT EASEMENT LINE		PRECAST CONCRETE DROP INLET LATERAL OUTLET		CP (DEPTH) COLD PLANE	
TEMPORARY EASEMENT LINE		PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET		CPP CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)	
PROPERTY LINE		CATCH BASIN AND MANHOLE STEP		DB REMOVE AND DISPOSE BITUMINOUS CURB	
CITY OR TOWN LINE		CONCRETE COLLARS		DC REMOVE AND DISPOSE CONCRETE CURB	
PAVED WATERWAY		LIGHT-DUTY SQUARE FRAME AND ROUND COVER		DCB REMOVE AND DISPOSE CATCH BASIN	
CONTOUR LINE		HEAVY DUTY SQUARE FRAME AND ROUND COVER		DDI REMOVE AND DISPOSE DROP INLET	
OPEN DITCH		LIGHT-DUTY ROUND FRAME AND COVER		DF REMOVE AND DISPOSE FENCE	
R.I. HIGHWAY BOUND		HEAVY-DUTY ROUND FRAME AND COVER		DFC REMOVE AND DISPOSE FRAME AND COVER	
STONE BOUND		SQUARE FRAME AND GRATE		DFE REMOVE AND DISPOSE FLARED END SECTION	
RETAINING WALL		SQUARE FRAME AND GRATE		DFG REMOVE AND DISPOSE FRAME AND GRATE	
FIELD STONE WALL		SQUARE FRAME AND GRATE (BICYCLE SAFE)		DFH REMOVE AND DISPOSE FIRE HYDRANT	
BORINGS		HIGH CAPACITY FRAME AND GRATE		DFP REMOVE AND DISPOSE FLEXIBLE PAVEMENT	
FENCE		HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)		DG REMOVE AND DISPOSE GUARDRAIL	
WOOD OR BRUSH LINE		ROUND FRAME AND GRATE		DH REMOVE AND DISPOSE HEADWALL	
TREES		PRECAST CONCRETE CURB (STRAIGHT)		DHB REMOVE AND DISPOSE HIGHWAY BOUND	
RIVER OR STREAM		PRECAST CONCRETE CURB (CIRCULAR)		DHH REMOVE AND DISPOSE HANDHOLE	
WETLAND AREA		3'-0" PRECAST CONCRETE TRANSITION CURB		DL REMOVE AND DISPOSE LIGHT AND FOUNDATION	
BUILDING		6'-0" PRECAST CONCRETE TRANSITION CURB		DMB REMOVE AND DISPOSE MEDIAN BARRIER	
FOUNDATION		PRECAST 2'-0" RADIUS CORNER		DMH REMOVE AND DISPOSE MANHOLE	
BUILDING TO BE REMOVED		PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)		DMM REMOVE AND DISPOSE MEDIAN MARKER	
RAILROAD TRACKS		PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)		DOW REMOVE AND DISPOSE OBSERVATION WELL	
CUT AND MATCH		PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)		DP REMOVE AND DISPOSE PIPE	
RIP-RAP		PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)		DPB REMOVE AND DISPOSE PAVEMENT AND RIGID BASE	
CUT SLOPE		PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)		DRB REMOVE AND DISPOSE RIGID BASE	
FILL SLOPE		PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)		DS REMOVE AND DISPOSE SIGN	
ROCK CUT		PRECAST CONCRETE SLOPED FACE TRANSITION CURB		DSS REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM	
SPOT GRADE		PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)		DSW REMOVE AND DISPOSE SIDEWALK	
AREA GRADED TO DRAIN		GRANITE CURB (STRAIGHT)		DTD REMOVE AND DISPOSE TELEPHONE DUCT BANKS	
BALED HAY RI STD 9.1.0		GRANITE CURB (CIRCULAR)		DUP REMOVE AND DISPOSE UTILITY POLE	
BALED HAY & SILT FENCE RI STD. 9.3.0		6'-0" GRANITE TRANSITION CURB		DWW REMOVE AND DISPOSE PAVED WATERWAY	
EDGE OF WETLAND		GRANITE WHEELCHAIR RAMP TRANSITION CURB		FF FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT	
WETLAND PERIMETER		GRANITE 2'-0" RADIUS CORNER		GET FLARED GUARDRAIL END TREATMENT	
AREA SUBJECT TO STORM FLOW		GRANITE INLET STONE (FOR SQUARE CATCH BASIN)		IA IMPACT ATTENUATOR	
100-YEAR FLOOD PLAIN		GRANITE INLET STONE (FOR ROUND CATCH BASIN)		IDL IMPERVIOUS DITCH LINER	
LIMIT OF DISTURBANCE		GRANITE APRON STONE (FOR SQUARE CATCH BASIN)		LOR LIMIT OF DISTURBANCE	
LIMIT OF CLEARING		GRANITE APRON STONE (FOR ROUND CATCH BASIN)		LS LIMIT OF REGRADING	
		GRANITE SLOPED FACE CURB		NFH 4" LOAM AND SEED	
		GRANITE SLOPED FACE TRANSITION CURB		NEW FIRE HYDRANT WITH GATE VALVE	
		GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)			
		BITUMINOUS CONCRETE LIP CURB			

DESIGNED BY:

CHECKED BY:

DATE: MAY, 2024

SHEET: 2

OF: 80

REVISIONS

NO.	DATE	BY

REVISIONS

NO.	DATE	BY

RECONSTRUCTION OF

ROUTE I-95 AND ROUTE 4 INTERCHANGE

VOLUME: 1

EAST GREENWICH, WEST WARWICK, WARWICK

RHODE ISLAND

STANDARD PLAN SYMBOLS & STANDARD LEGEND

Environmental Management

JAN 24 2025

Office of Water Resources

THIS PLAN SHALL NOT BE ALTERED



J:\FILES\CD\040978\_Route 4 I-95\Project Plans\01\AC2079\_V1\_003\_STDNOTES01\_NEW.dwg, 8/20/2024, 8:16:55 AM, M:\rsm\ssd

GENERAL NOTES:

- ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, DRAINAGE STRUCTURES, DRAINAGE PIPES, INFILTRATION AREAS, ROADSIDE, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.05 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION. EQUIPMENT AND MATERIAL SHALL NOT BE STORED IN AREAS DESIGNATED FOR STORMWATER INFILTRATION OR OUTSIDE THE L.O.D. WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT DISTURBED OR OBLITERATED BEFORE SURVEY GROUND CONTROL POINTS ARE LOCATED, VERIFIED, AND DEEMED ADEQUATE FOR CONSTRUCTION LAYOUT. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING THE CONTRACTOR TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION ACTIVITIES UNTIL ADEQUATE SURVEY GROUND CONTROL POINTS HAVE BEEN ESTABLISHED, TIED DOWN, AND VERIFIED IN WRITING BY THE CONTRACTOR'S PROFESSIONAL LAND SURVEYOR.
- ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
- THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF SECTION 907.
- ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 7 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE INCIDENTAL TO THE APPLICABLE PAVEMENT ITEMS.
- THE LIMITS OF CLEARING AND SURFACE DISTURBANCE SHALL BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT ITS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
- CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER. CLEANING WITH COMPRESSED AIR SHALL ONLY BE ALLOWED WITH THE APPROVAL OF THE ENGINEER.
- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS AND SHOP DRAWINGS OR AS MODIFIED BY THE ENGINEER.
- THE COORDINATE SYSTEM, IF SHOWN, IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM.
- PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAVER FOR CONTROLLING GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO MAINTAIN THE SAFE TRAVEL OF THE PUBLIC AT NO ADDITIONAL COST TO THE STATE.
- NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO NEW AND EXISTING DRAINAGE STRUCTURES HAS BEEN PROPERLY ESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; ANY CORRECTIVE ACTION SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.
- ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- IF THIS PROJECT IS ON A HURRICANE EVACUATION AND DIVERSIONARY ROUTE, AS DESIGNATED ON THE COVERSHEET, THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL. ANY EXTRA WORK NECESSARY TO COMPLY WITH THIS REQUIREMENT WILL BE REIMBURSED UNDER FORCE ACCOUNT PROCEDURES.
- THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS STATED IN THE ENVIRONMENTAL APPROVALS ISSUED FOR THE PROJECT FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM). AND/OR THE ARMY CORPS OF ENGINEERS (ACOE). AND/OR THE COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC). COPIES OF EACH OF THESE PERMITS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THESE CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).

GENERAL NOTES (CONTINUED):

- FOR ALL PROJECTS INVOLVING KNOWN SITE REMEDIATION ISSUES, THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE CONSTRUCTION RELATED PROVISIONS, CONDITIONS, AND STIPULATIONS OF ANY REMEDIAL ACTION WORK AND/OR SOIL MANAGEMENT PLANS DEVELOPED FOR THE PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THESE DOCUMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNPROTECTED CONSTRUCTED FEATURE MAY PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. HEADWALL, DRAINAGE INLET, ETC.
- THE REMAINING SECTION OR STUB OF A BREAKAWAY BASE MAY NOT PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. SIGN POSTS, LIGHT POLES, FIRE HYDRANTS, ETC.

DRAINAGE AND EROSION CONTROL NOTES:

- THE CONTRACTOR IS REQUIRED TO ADHERE WITH THE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE-SPECIFIC SWPPP FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AS SITE CONDITIONS WARRANT. A COPY OF THE SWPPP MUST BE ON-SITE AT ALL TIMES. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS.
- NO UNDISTURBED AREAS SHALL BE GRUBBED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
- STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODIBLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES TO STABILIZE. STOCKPILES OF CONTAMINATED MATERIALS MUST BE PLACED ON TOP OF A POLY-ETHYLENE SHEET AND COVERED AT ALL TIMES UNLESS IT IS AN ACTIVE WORKING PILE.
- IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. ENVIRONMENTAL DIVISION.
- SURFACE EROSION CONTROL MATTING SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
- SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
  - SEEDING TYPE I.
  - ADHESIVE MULCH STABILIZER
- UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
- PRIOR TO CONSTRUCTION OPERATIONS, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL CATCH BASINS AND FLUSHING THE PIPES, AND THEN VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION.
- ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EFFICACY OF THE DRAINAGE SYSTEM. ONCE CONSTRUCTION IS COMPLETED THE CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL CATCH BASINS AND FLUSHING ALL PIPES OF ANY CONSTRUCTION RELATED DEBRIS AT NO ADDITIONAL COST.
- CATCH BASIN RIM GRADES FOR STRUCTURES NOT IN A TRAVEL LANE NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
- PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL STRICTLY ADHERE TO THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. SEDIMENT AND EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
- R.I. STD. 9.8.0 BALED STRAW INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
- WHERE BALED STRAW INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.

REGULATORY SUBMISSION SHEET 3 OF 42

RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	3	80

DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):

- DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENT HAVE BEEN REMOVED AND INFILTRATION IS REESTABLISHED. FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED TO COMPLY WITH THE PLANS, SPECIFICATIONS, AND PERMITS. ANY ISSUES RELATING TO EROSION AND/OR SEDIMENT TRANSPORT INTO WETLAND AREAS RESULTING FROM SUCH USE OF SEDIMENTATION BASINS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CORRECTIVE ACTION AND COSTS REQUIRED TO RESOLVE SUCH ISSUES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST 1' INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR, OR ANY AGENT OF THE CONTRACTOR, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS ACCOMPLISHED.
- PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THOSE AREAS INDICATED ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS.
- ALL COMPOST FILTER SOCK, STRAW BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. TEMPORARY SEED WILL CONFORM TO R.I.D.O.T. STANDARD TEMPORARY SEED MIX.
- THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE STATE.
- THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEMS. ADDITIONAL SEDIMENT AND EROSION CONTROLS, SHALL BE INSTALLED IN ACCORDANCE WITH THE SWPPP REPORT. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.
- ANY OBSERVATIONS OF ILICIT CONNECTIONS OR DISCHARGES TO RIDOT'S DRAINAGE NETWORK OR OUTFALLS SHALL BE REPORTED TO THE RIDOT STORMWATER UNIT IMMEDIATELY.

UTILITY NOTES:

- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009 AND, WHEN NECESSARY, BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND AND AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
- ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
- EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.
- UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
- FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
- ALL NEW WATER LINES SHALL BE DISINFECTED TO THE SATISFACTION OF THE WATER AUTHORITY IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.
- THE CONTRACTOR SHALL PROVIDE 72-HOUR ADVANCE NOTICE TO THE RIDOT TMC (401-222-2378) FOR WORK AROUND RIDOT OWNED INFRASTRUCTURE (DRAINAGE, LIGHTING, ITS EQUIPMENT, TOLL GANTRIES, COUNTING STATIONS, ETC.). ANY DAMAGE TO THIS INFRASTRUCTURE MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT RIDOT IN ADVANCE, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF WATER RESOURCES

FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS

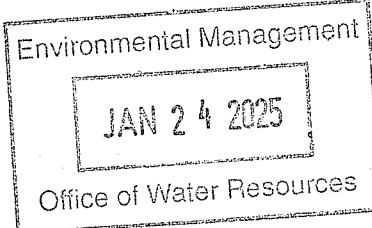
SPECIFIED IN THE LETTER OF APPROVAL

DATED: APR 16 2025 FILE #: 03-0345

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Gregory D. Wernick*



THIS PLAN SHALL NOT BE ALTERED

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1

EAST GREENWICH, WEST WARWICK, WARWICK

RHODE ISLAND

STANDARD NOTES - 1

DESIGNED BY:

CHECKED BY:

DATE: MAY, 2024

SHEET: 3

OF: 80

REVISIONS

NO. DATE BY

REVISIONS

NO. DATE BY

RHODE ISLAND

DEPARTMENT OF TRANSPORTATION





I:\FILES\SC04010797 - Route 4 I-95 409Project\Drawings\140079\_V1\_004 STDNOTES02\_REV4.dwg 03/02/2024 8:16:59 AM Information

LANDSCAPE NOTES:

- ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY (A RECOGNIZED GROWER OF PLANT MATERIAL) IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION. ALL PLANT MATERIAL MUST BE NURSERY GROWN; NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
- ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATION MUST BE APPROVED IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
- COORDINATE WITH THE R.I.D.O.T. CONSTRUCTION MANAGER PRIOR TO ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS.
- ANY TOPSOIL USED AS PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM TO SECTION M.1B OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND SHRUBS SHALL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL TREES AND/OR SHRUBS THAT ARE PLANTED AS A BED SHALL BE MULCHED AS A BED.
- PROVIDE A MINIMUM 6'-8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS AND/OR PEDESTRIAN ACCESS AREAS.
- THE CONTRACTOR SHALL PROVIDE CERTIFICATION THAT THERE ARE NO CONTAMINANTS THAT EXCEED THE R.I.D.E.M. PERMISSIBLE LEVELS IN THE SOILS USED AS LOAM OR PLANTABLE SOIL.

STRUCTURAL NOTES FOR HIGHWAY SIGNS,  
LUMINAIRES AND TRAFFIC SIGNALS:

GENERAL

- ALL SUPPORT DESIGNS AND ASSOCIATED SHOP DRAWING REVIEWS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION AND REVISIONS, OF THE AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.

CONSTRUCTION DRAWINGS AND DETAILS

- THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS AND/OR SHOP DRAWINGS IN REFERENCE TO ANCHOR BOLTS:
  - "PRETENSIONING OF ALL ANCHOR NUTS IS REQUIRED, AND SHALL BE ACCOMPLISHED BY TIGHTENING TO 1/6TH TURN BEYOND THE SNUG-TIGHT POSITION."
  - "THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM OF THE LEVELING NUTS AND THE TOP OF THE CONCRETE IS CRITICAL AND SHALL NOT EXCEED THE AMOUNT SPECIFIED ON THIS DRAWING."
- THE USE OF GROUT UNDER BASE PLATES SHALL GENERALLY NOT BE PERMITTED. IF SPECIFIC CONDITIONS WARRANT ITS USE, THE GROUT SHALL NOT BE CONSIDERED LOAD CARRYING; LOADS SHALL BE DIRECTLY SUPPORTED BY THE ANCHOR BOLTS. ADEQUATE DRAINAGE SHALL BE PROVIDED.
- THE DAMPENING EFFECTS OF VIBRATION MITIGATION DEVICES SHALL NOT BE CONSIDERED IN THE DESIGN OF STRUCTURAL SUPPORTS FOR SIGNS AND TRAFFIC SIGNALS. IF THE CONTRACTOR CHOOSES TO USE THESE DEVICES FOR WARRANTY PURPOSES, THE TYPE OF DEVICES PROPOSED SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO FABRICATION OF SUPPORTS.

TRAFFIC SIGNAL NOTES:

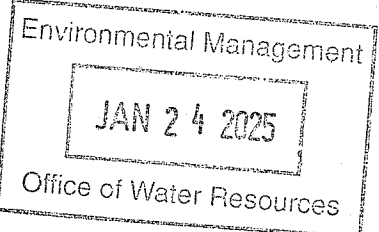
- ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE R.I.D.O.T. MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RHODE ISLAND, 02888. THE COST FOR DELIVERY IS CONSIDERED INCIDENTAL TO THE WORK.
- BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE LOOP DETECTORS. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER CABINET LOCATION. THE ASSIGNMENT INFORMATION SHALL BE INCLUDED IN A TABLE WHICH SHALL INCLUDE, AT A MINIMUM, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
- TRAFFIC CONTROLLER CABINETS, UNLESS OTHERWISE NOTED, SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 ("P" TYPE) WITH NOMINAL DIMENSIONS OF 52"Hx44"Wx24"D.
- ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED LOOP DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER AND NOT THE DETECTOR RELAY.
- INSULATED GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE FINAL POSITION OF SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, DETECTORS, AND STOP LINE AND CROSSWALK PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD ACCORDING TO ACTUAL INTERSECTION CHARACTERISTICS.
- A 2' MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIAN SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
- ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
- WHEN PLACING TRAFFIC SIGNAL HANDHOLES OR CONDUIT IN EXISTING PORTLAND CEMENT CONCRETE SIDEWALKS, THE ENTIRE SIDEWALK SQUARE OF CONCRETE SHALL BE REPLACED IN ACCORDANCE WITH R.I. STD. 43.1.0. NO PATCHES WILL BE ALLOWED.
- ALL PEDESTRIAN PUSHBUTTONS SHALL BE COMPLIANT WITH "THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" (ADAAG) AND SHALL INCLUDE A PRESSURE-ACTIVATED (NON-MOVING) BUTTON. SIGNS APPLICABLE TO PUSHBUTTON ACTUATION SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED. IF SITE CONDITIONS DO NOT ALLOW PEDESTRIAN PUSHBUTTONS TO BE INSTALLED WHERE CALLED FOR ON THE PLANS, THE R.I.D.O.T. TRAFFIC ENGINEERING UNIT SHALL BE CONSULTED WITH THROUGH AN R.F.I. PRIOR TO INSTALLING THE PUSHBUTTONS. THE FINAL PLACEMENT OF ALL PEDESTRIAN PUSHBUTTONS SHALL BE IN ACCORDANCE WITH ADAAG AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
- ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
- TRAFFIC SIGNAL CONTROLLERS AND CABINETS SHALL BE PROGRAMMED AND WIRED SO THAT ANY FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
- THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE TRAFFIC SIGNAL OPERATION TO ITS INTENDED PURPOSE WHEN REPLACING THE TRAFFIC SIGNAL EQUIPMENT. A POLICE DETAIL IS REQUIRED TO DIRECT TRAFFIC AT THE INTERSECTION AT ALL TIMES WHEN THE TRAFFIC SIGNAL IS INOPERATIVE. AT NO TIME SHALL THE CONTRACTOR LEAVE THE SITE BEFORE RESTORING FULL TRAFFIC OPERATIONS.

REGULATORY SUBMISSION SHEET 4 OF 42  
MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:



- ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
- THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
- ADVANCE FLAGPERSON SIGNS (W20-7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
- POLICE OFFICERS AND FLAGPERSONS SHALL BE UTILIZED AS OUTLINED IN SECTIONS 913 & 914 OF THE RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET-UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
- ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE RIGHT-OF-WAY ONLY IN AREAS BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
- TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
- THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. APPROVED PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT. FAILURE TO COMPLY WILL RESULT IN AN ASSESSMENT OF A CHARGE AS OUTLINED IN SECTION 937 OF THE RI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	4	80

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0246  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Christopher D. Wenzel*



THIS PLAN SHALL NOT BE ALTERED

				RHODE ISLAND DEPARTMENT OF TRANSPORTATION	DESIGNED BY: CHECKED BY: DATE: MAY, 2024 SHEET: 4 OF: 80							RECONSTRUCTION OF ROUTE I-95 AND ROUTE 4 INTERCHANGE VOLUME: 1		EAST GREENWICH, WEST WARWICK, WARWICK	RHODE ISLAND
												STANDARD NOTES - 2			



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	5	80

EROSION AND SEDIMENT CONTROL NOTES:

- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO BE EMPLOYED ON THE PROJECT ARE INDICATED ON THE PLANS. CONTROL MEASURES SHALL BE FURNISHED, INSTALLED, MAINTAINED FOR THE DURATION OF CONSTRUCTION, AND SUBSEQUENTLY REMOVED, ALL IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE LATEST EDITION AND REVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE PROJECT SWPPP.
- PRIOR TO ANY CONSTRUCTION ACTIVITY THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACCESS POINTS FOR APPROVAL BY THE ENGINEER. PRIOR TO ANY DISTURBANCE OF EXISTING CONDITIONS THE CONTRACTOR MUST INSTALL RI. STD. 9.9.0 CONSTRUCTION ACCESS PADS AT THE APPROVED LOCATIONS.
- ALL CLEARING, GRADING AND EARTHWORK ACTIVITIES SHALL REMAIN STRICTLY WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE RESTRICTED TO ACTIVITIES NECESSARY FOR COMPLETION OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE REMAIN UNDISTURBED AND PROTECTED FROM CONSTRUCTION IMPACTS.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE RI SOILS HANDBOOK WITH THE RIDOT STANDARD SPECIFICATIONS.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT LOCATIONS AND AREAS SHOWN ON THE PLANS.
- ALL MATERIAL STOCKPILES SHALL BE APPROVED BY THE ENGINEER AND LOCATED WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE SURROUNDED BY A SECURED PERIMETER OF COMPOST FILTER SOCK. NO STOCKPILING OF MATERIALS WILL BE PERMITTED WITHIN THE 100-YEAR FLOOD PLAIN.
- ALL EXISTING AND CONSTRUCTED DRAINAGE SYSTEM INLETS SHALL BE PROVIDED WITH INLET PROTECTION DEVICES (FILTER BAGS/SILT SACKS, SANDBAGS, WATTLES, ETC.) AS INDICATED ON THE PLANS. ALL INLET PROTECTION DEVICES SHALL BE INSTALLED, MAINTAINED, AND CLEANED FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL STORMWATER CONTROLS ARE FULLY STABILIZED AND ONLINE, AT WHICH TIME THEY SHALL BE REMOVED. ALL ACCUMULATED SEDIMENT AND DEBRIS TRAPPED BY DEVICES SHALL BE REMOVED AND DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.

JOB SPECIFIC GENERAL NOTES

- ALL SIGN POST MOUNTINGS SHALL BE RI. STD. 24.2.0 (U-CHANNEL POSTS) UNLESS OTHERWISE SPECIFIED.
- THE COST OF TRIMMING AND FINE GRADING FOR CURB INSTALLATION WILL BE INCLUDED IN THE COST OF THE CURB. THE TRIMMING AND FINE GRADING LIMITS SHALL BE A MINIMUM 1'-0" IN FRONT OF AND 1'-0" IN BACK OF THE NEW CURB OR TO A SUFFICIENT DISTANCE IN FRONT AND/OR IN BACK OF THE NEW CURB FOR PROPER CURB INSTALLATION.

JOB SPECIFIC TRAFFIC SIGNAL NOTES

- MAST ARMS SHALL BE BOLTED WITH A MINIMUM OF SIX ANCHOR BOLTS AT THE FOUNDATION IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- THE CONTRACTOR IS DIRECTED TO SECTION T.11 TRAFFIC SIGNAL STANDARDS AND POSTS, FOR FOUNDATION DESIGN REQUIREMENTS.
- ALL SIGNS INSTALLED AT PROPOSED PEDESTRIAN PUSH BUTTONS SHALL BE MUTCD CODE R10-3e (LEFT OR RIGHT) AND SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED.
- THE CONTRACTOR SHALL PROVIDE SURVEYED CROSS SECTIONS AT EACH NEW MAST ARM LOCATION IN ACCORDANCE WITH THE RHODE ISLAND STANDARD SPECIFICATIONS.
- FOUNDATION DESIGN AND DIMENSIONS SHOWN ON R.I. STANDARDS 19.5.0 AND 19.5.1 ARE NO LONGER APPLICABLE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DESIGN FOR ALL MAST ARM AND SPAN POLE STRUCTURES.

JOB SPECIFIC

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY SECTION OPEN TO TRAFFIC.
- ANY CONE WEIGHTS REQUIRED ON RI STD. 26.1.0 "FLUORESCENT TRAFFIC CONES" SHALL BE INCIDENTAL TO THE CONTRACT.
- PAVEMENT REMOVAL/COLD PLANE TRANSVERSE DROP-OFFS LEFT OPEN TO TRAFFIC SHALL BE A MINIMUM OF 10 FEET HORIZONTAL TO 1 INCH VERTICAL.
- THE INTENDED VEHICLE PATH SHALL BE CLEARLY MARKED AT ALL TIMES AND NEW PAVEMENT MARKINGS (PAINT) SHALL BE PLACED AT THE END OF THE WORK DAY WHERE THE ROADWAY HAS BEEN COLD PLANED OR PAVED.

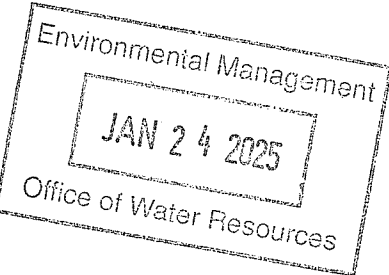
JOB SPECIFIC UTILITY NOTES:

- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH THE "DIG SAFE LAW" ENACTED BY R.I. LEGISLATURE BILL NO. 79S-291, WHICH BECAME EFFECTIVE JULY 1, 1979 AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.

JOB SPECIFIC LEGEND

CBP	CATCH BASIN INLET PROTECTION
CFS	COMPOST FILTER SOCK
CWD	CURB WEIR DETAIL
ECB	EROSION CONTROL BLANKET
ESM	ENGINEERED SOIL MEDIA
ETR	EXISTING TO REMAIN
HOS	12" HIGH ORGANIC SOIL AND WETLAND SEED MIX
PWW	PAVED WATERWAY (SEE DETAIL)
RRP	RIP-RAP PAD (SEE DETAIL)
SB	STONE BAFFLE
WALL	RETAINING WALL
20.1.0	PAVEMENT MARKINGS - ARROWS AND ONLY
20.3.0	PAVEMENT MARKINGS - CROSSWALKS AND STOP LINES
20.4.0	PAVEMENT MARKINGS - YIELD LINE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Christopher D. Wenzel*



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 5  
OF: 80

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1

EAST GREENWICH, WEST WARWICK, WARWICK

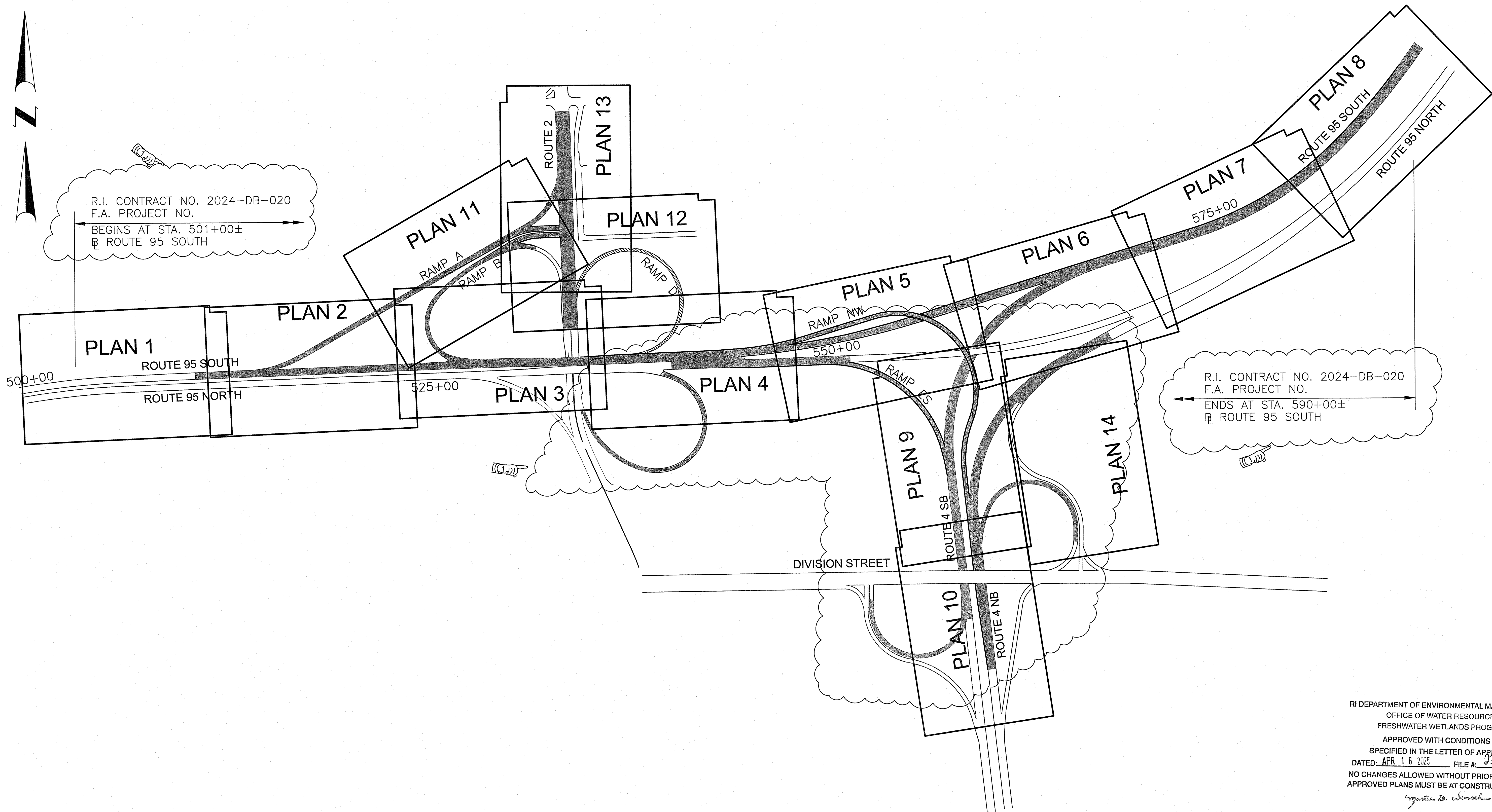
RHODE ISLAND

JOB SPECIFIC - 1  
PLAN SYMBOLS, LEGEND & NOTES



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	6	80

R-1



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE # 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management  
JAN 24 2025  
Office of Water Resources

ADDENDUM NO. 1



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 6  
OF: 80

REVISIONS						REVISIONS					
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	6/4/24	BLS									

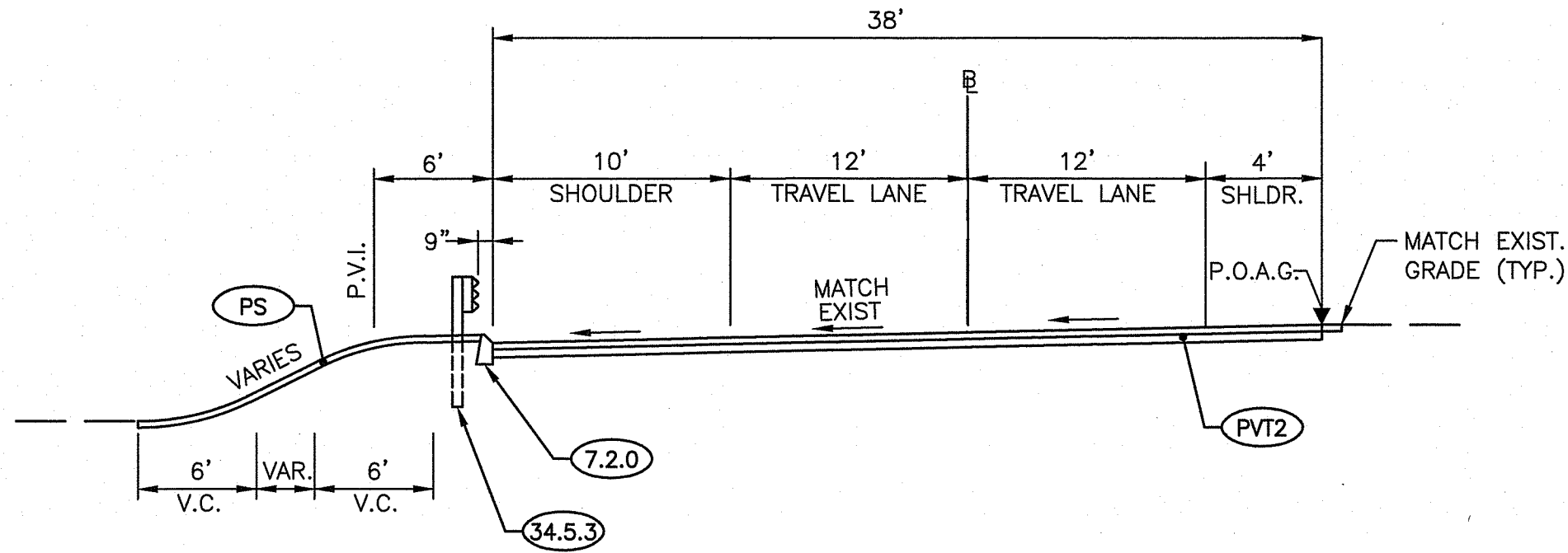
RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

KEY PLAN

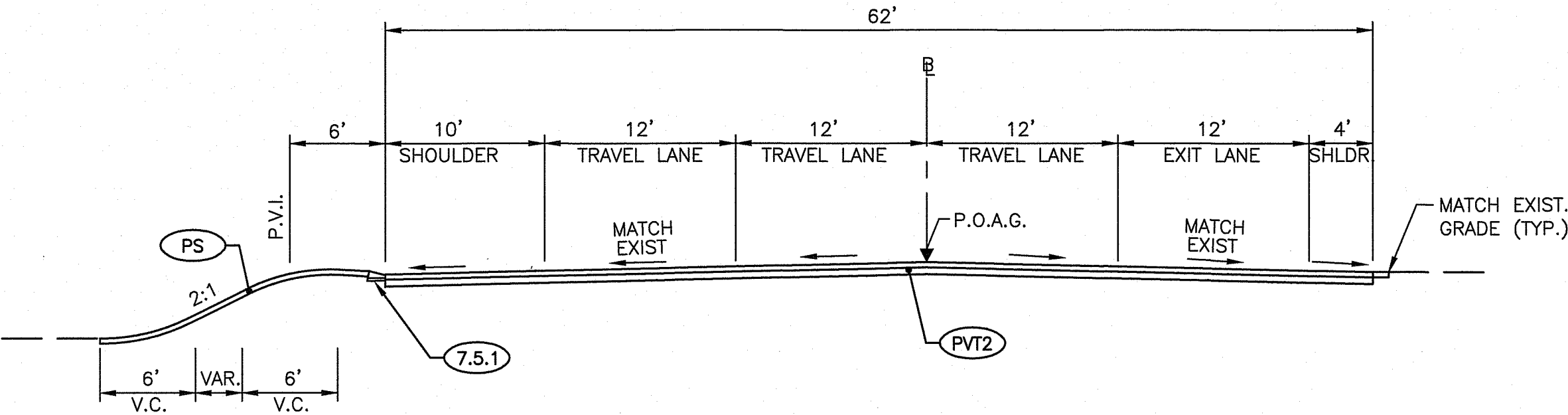


LEGEND

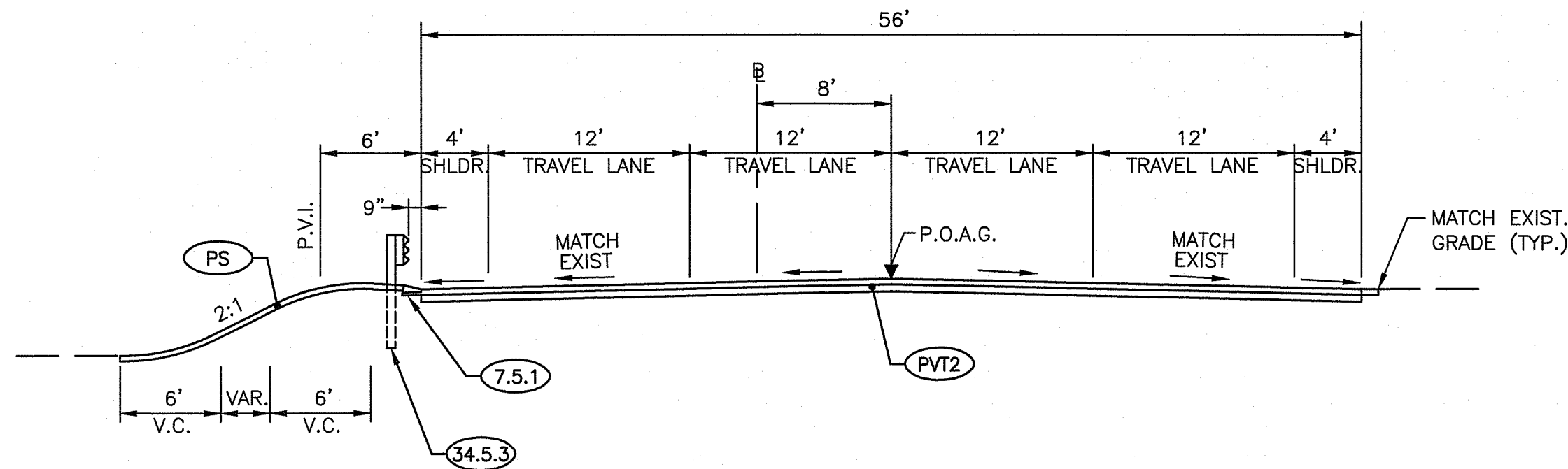
- PVT1 1 1/2" FRICTION COURSE  
2" MODIFIED CLASS 12.5 HMA  
7" CLASS 19 HMA  
12" GRAVEL BORROW SUBBASE COURSE\*
- PVT2 1 1/2" FRICTION COURSE  
2" MODIFIED CLASS 12.5 HMA  
MICRO-MILLING (3-INCH DEPTH)
- PVT3 2" MODIFIED CLASS 12.5 HMA  
5" CLASS 19 HMA  
12" GRAVEL BORROW SUBBASE\*
- PVT4 2" MODIFIED CLASS 12.5 HMA  
MICRO-MILLING (2" DEPTH)
- P.O.A.G. POINT OF APPLIED GRADE
- \* GRAVEL BORROW SUBBASE COURSE  
12" IN FILL  
18" IN EARTH CUT  
24" IN ROCK CUT
- PS 4" PLANTABLE SOIL & SEED (TYPE 1)
- 7.5.1A BITUMINOUS BERM CONSTRUCTED WITH METHOD A
- 7.5.1B BITUMINOUS BERM CONSTRUCTED WITH METHOD B



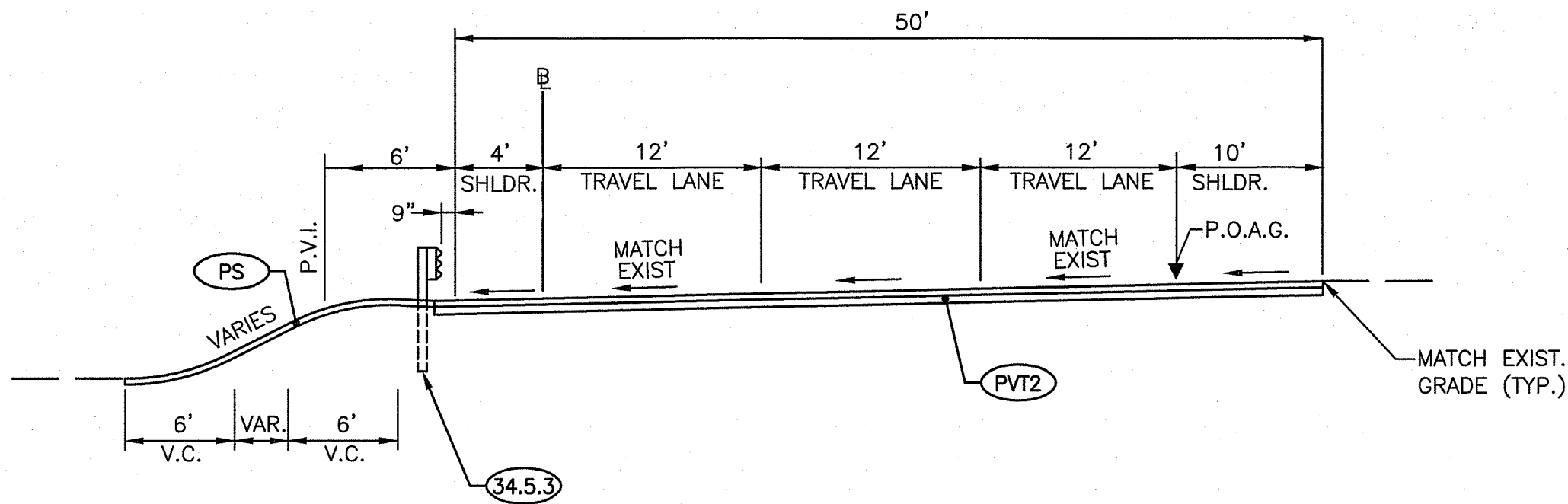
TYPICAL I-95 SOUTHBOUND  
STA. 534+00± TO STA. 563+00±  
SCALE : 1/8"=1'-0"



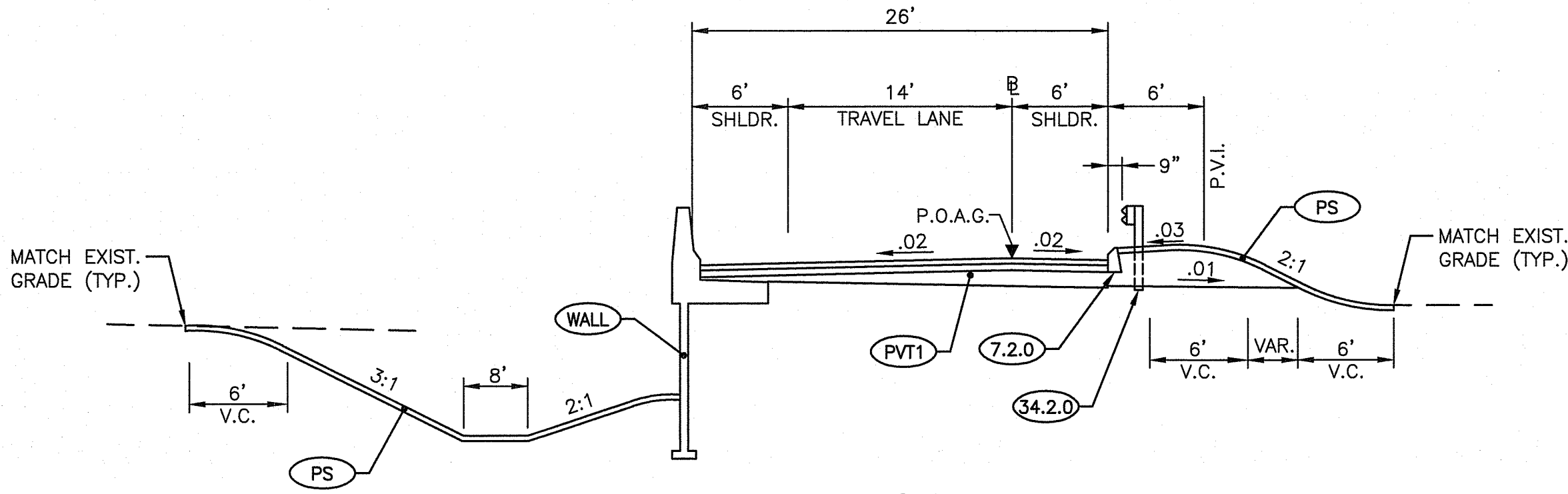
TYPICAL I-95 SOUTHBOUND  
STA. 566+00± TO STA. 590+00±  
SCALE : 1/8"=1'-0"



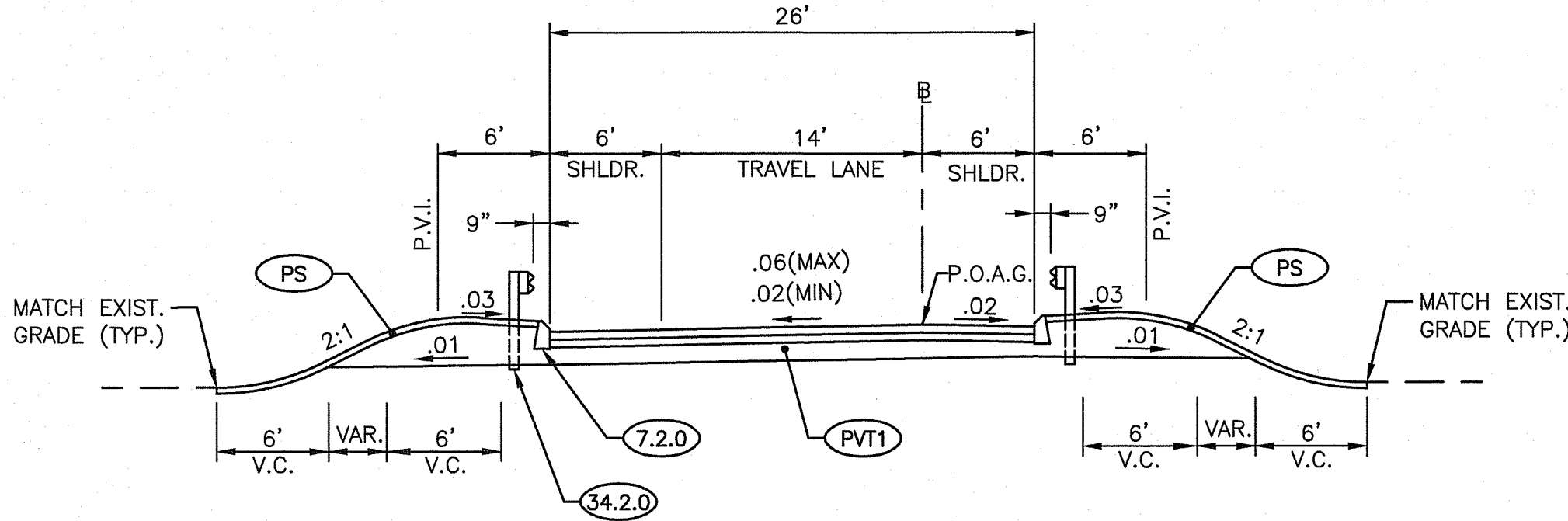
TYPICAL ROUTE 4 NORTHBOUND  
STA. 100+50± TO STA. 110+00±  
SCALE : 1/8"=1'-0"



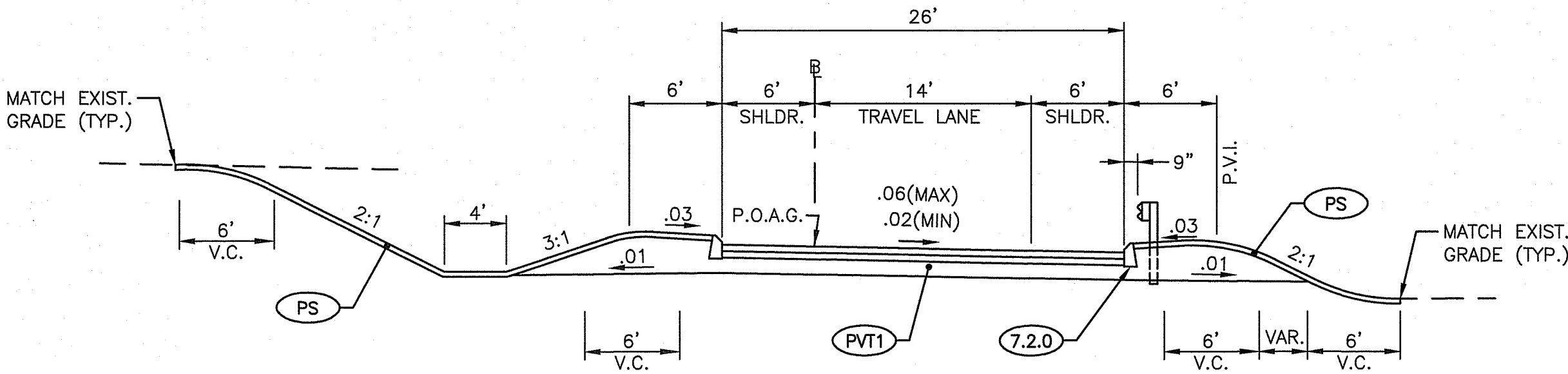
TYPICAL ROUTE 4 SOUTHBOUND  
STA. 7+00± TO STA. 20+00±  
SCALE : 1/8"=1'-0"



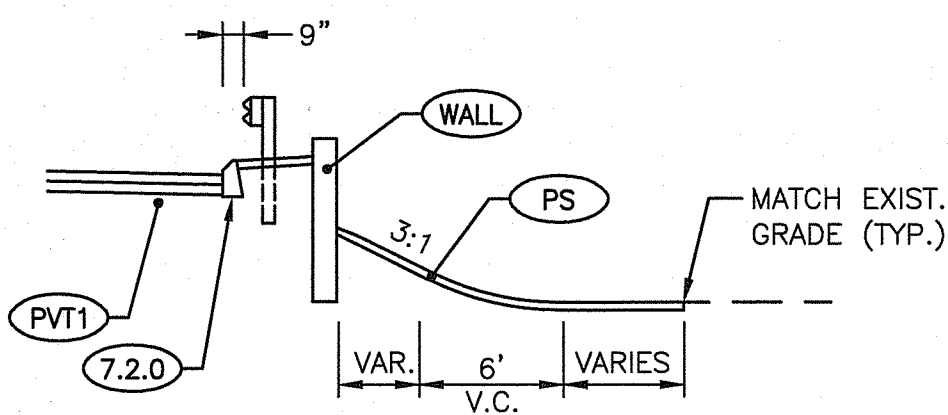
TYPICAL RAMP NW  
STA. 111+00± TO STA. 115+10±  
SCALE : 1/8"=1'-0"



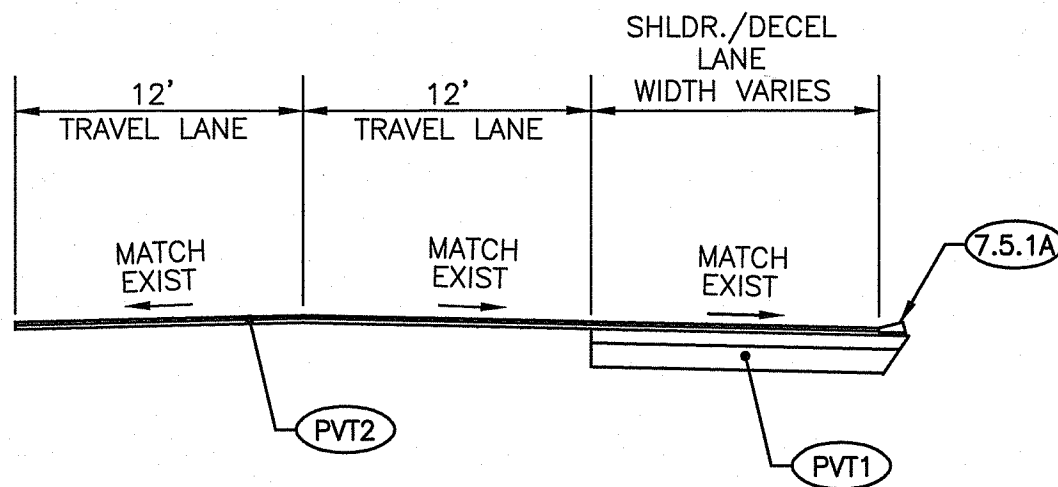
TYPICAL RAMP NW  
STA. 115+25± TO STA. 119+30±  
STA. 125+50± TO STA. 130+50±  
SCALE : 1/8"=1'-0"



TYPICAL RAMP ES  
STA. 16+00± TO STA. 25+00±  
SCALE : 1/8"=1'-0"



TYPICAL RAMP ES  
STA. 17+50± TO STA. 20+50±  
SCALE : 1/8"=1'-0"



TYPICAL WIDENING SECTION  
SCALE : 1/8"=1'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE # 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

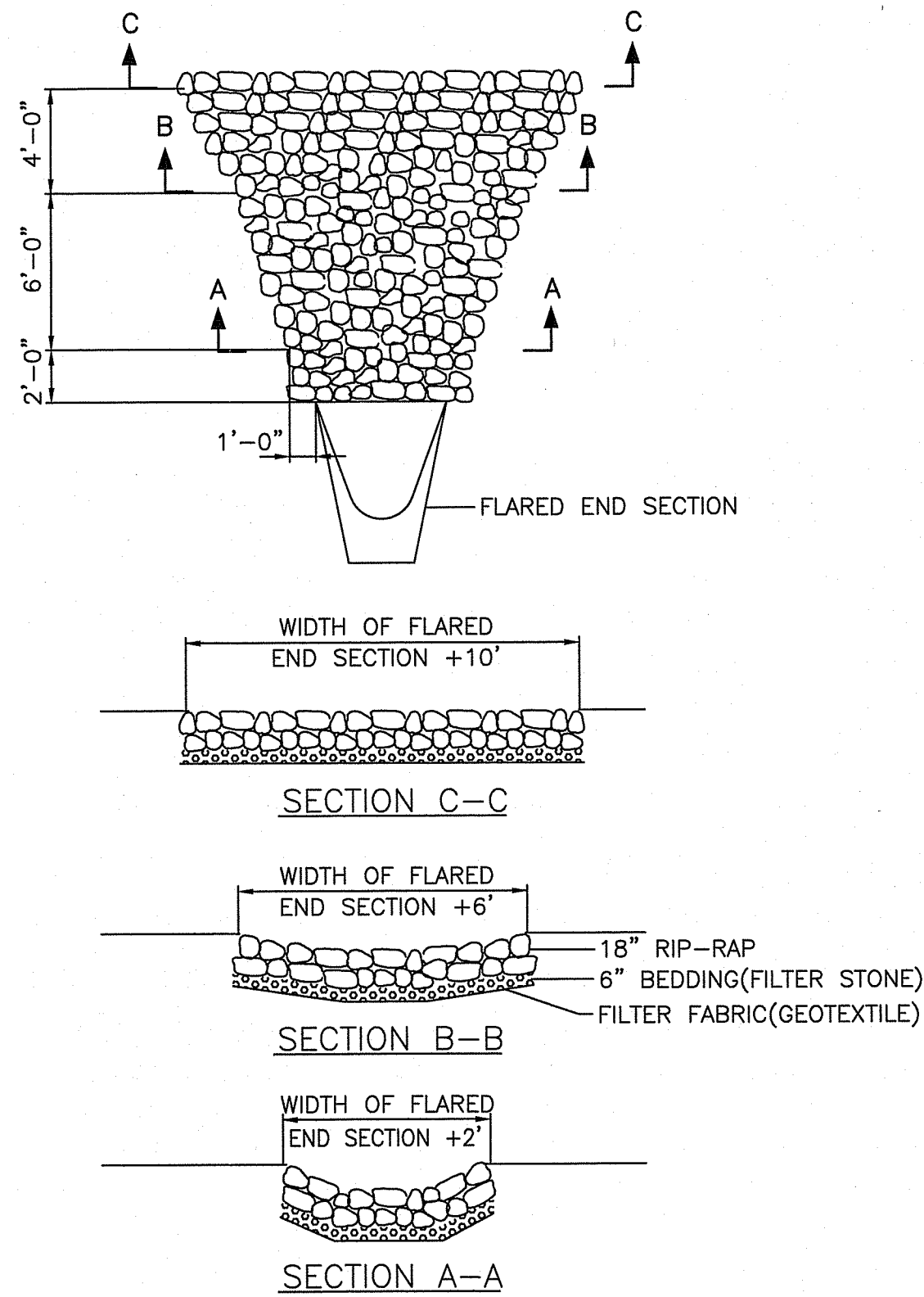
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 7  
OF: 80

SCALE: 1"=8'					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

TYPICAL SECTIONS

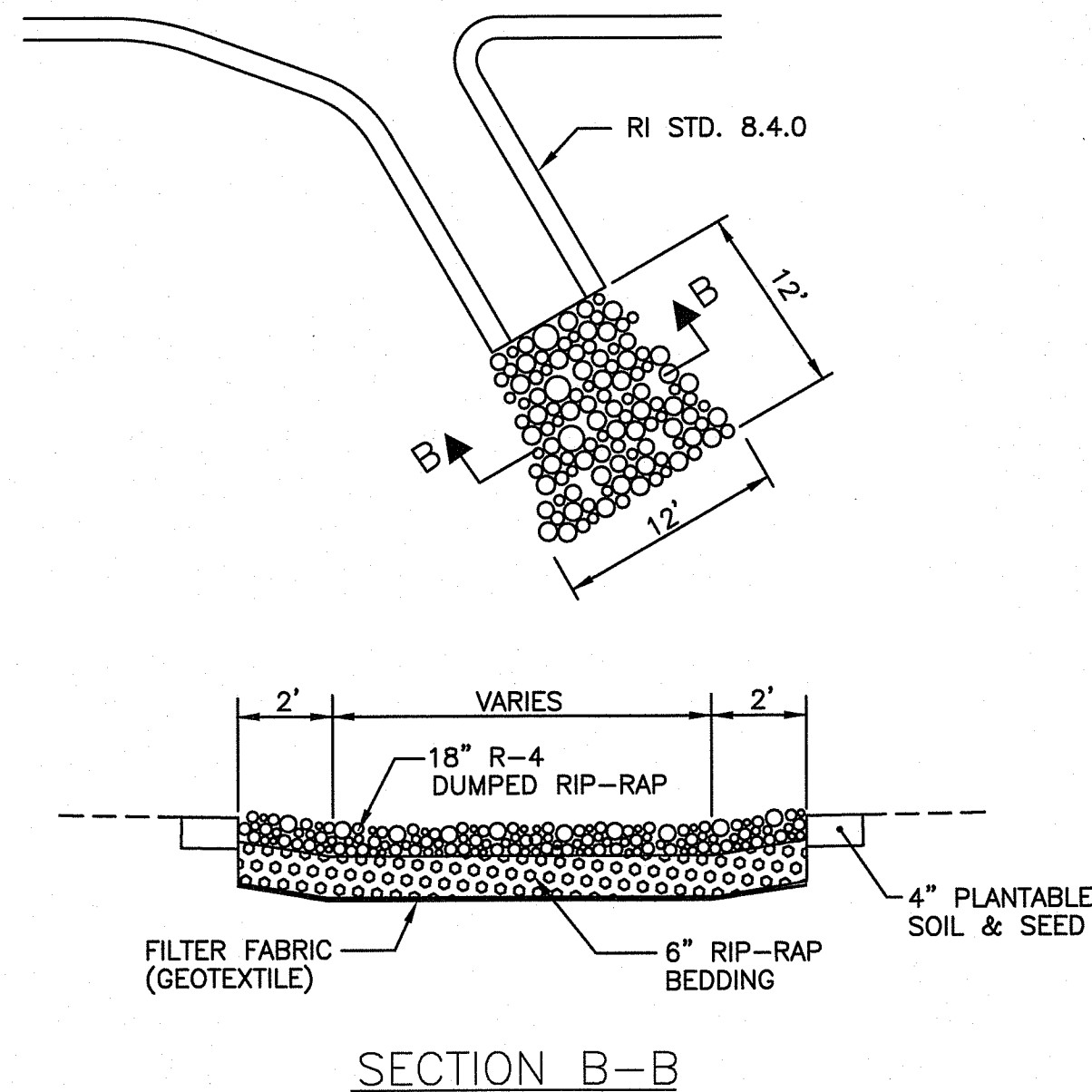




**RIP-RAP PAD DETAIL** (RRP)  
N.T.S.

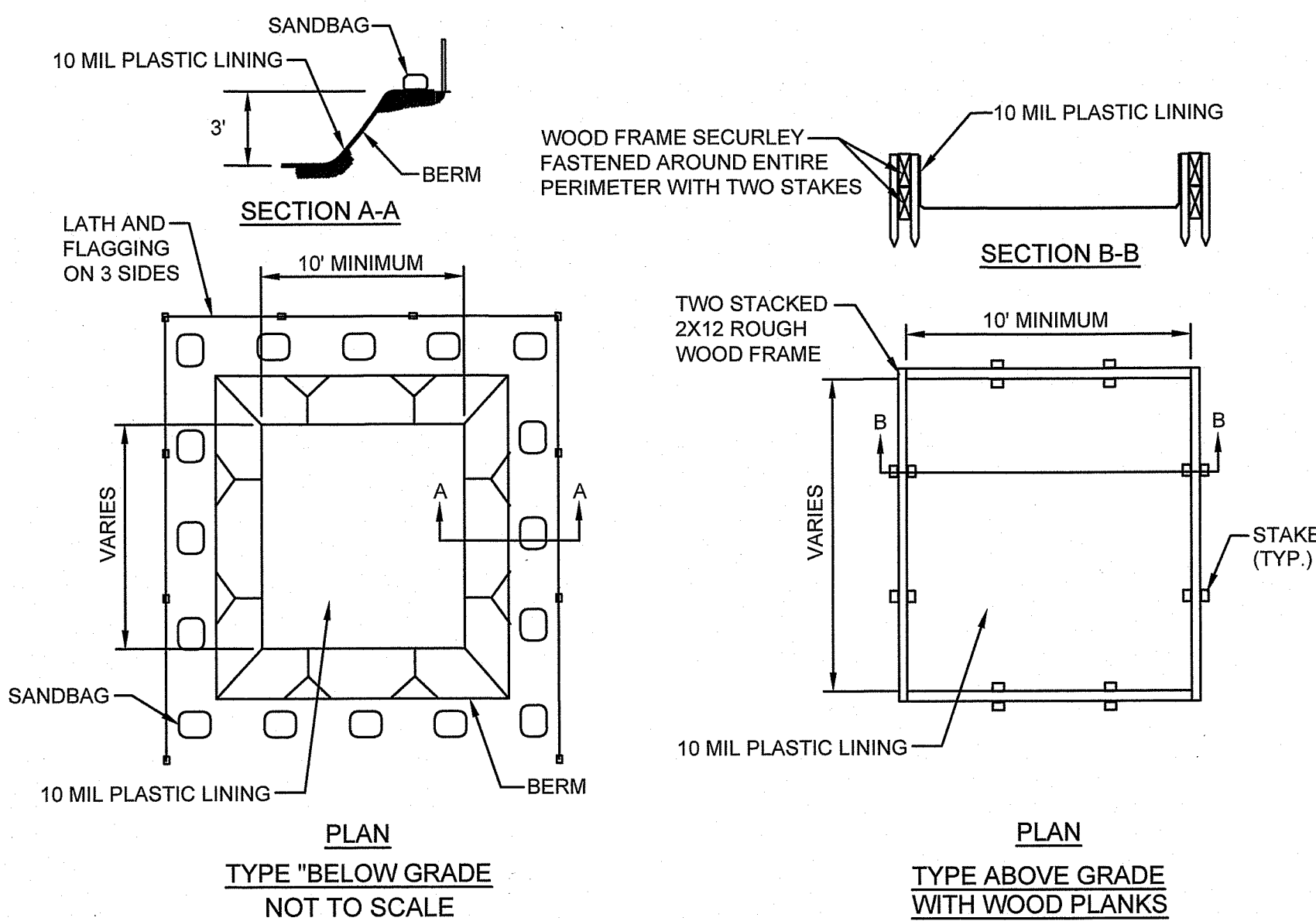
**NOTES:**

- RIP-RAP AND BEDDING SHALL BE IN ACCORDANCE WITH SECTION M.10 OF THE RI STD. SPECIFICATIONS FOR BRIDGE AND HIGHWAY. RIP-RAP SHALL BE MODIFIED NSA NO. R-4, BEDDING SHALL BE MODIFIED NSA NO. FS-2.
- DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
- UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.



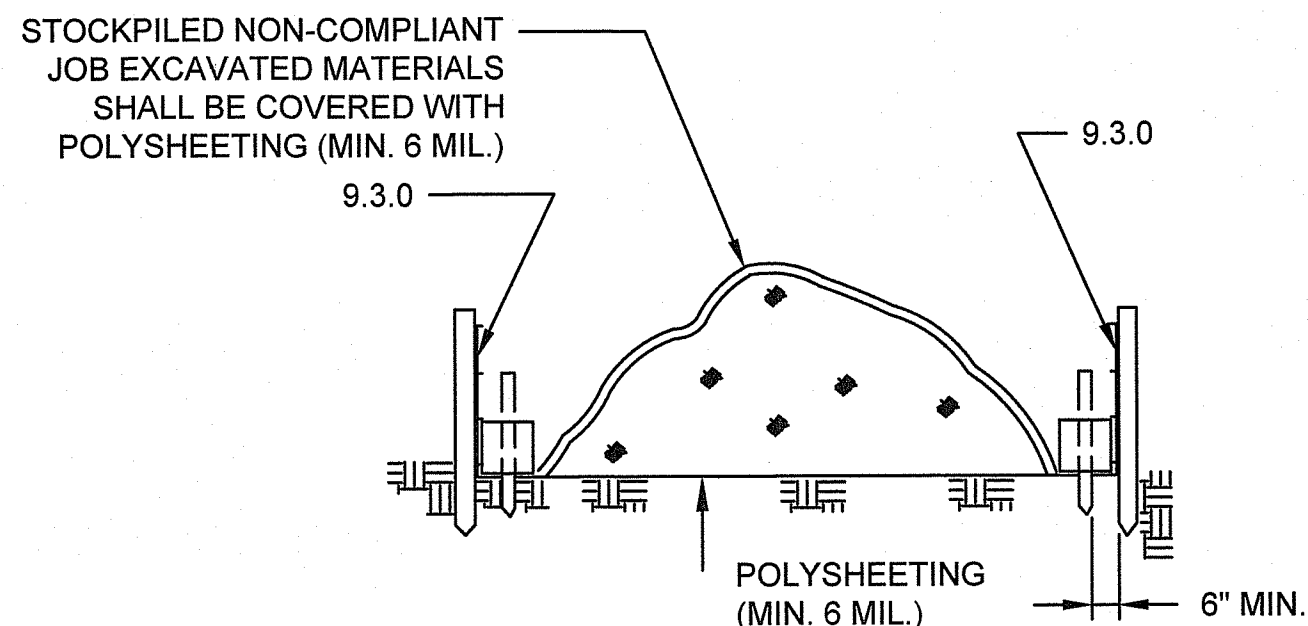
- RIP-RAP AND BEDDING SHALL BE IN ACCORDANCE WITH SECTION M.10 OF THE RI STD. SPECIFICATIONS FOR BRIDGE AND HIGHWAY. RIP-RAP SHALL BE MODIFIED NSA NO. R-4, BEDDING SHALL BE MODIFIED NSA NO. FS-2.
- DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
- UNLESS OTHERWISE SPECIFIED, DUMPED RIP-RAP SHALL BE USED.

**RIP RAP PAD FOR PAVED WATERWAY**  
N.T.S.



- SELF-INSTALLED ABOVE GRADE WASHOUTS ON LARGER SITES MUST BE AT LEAST 10 FEET BY 10 FEET LONG AND SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE EXPECTED TO BE GENERATED IN BETWEEN CLEANOUT PERIODS. WASHOUTS AT SMALLER SITES CAN BE SMALLER ACCORDING TO THE EXPECTED CAPACITY NEEDED. INCLUDE A MINIMUM OF 12-INCH FREEBOARD IN THE SIZING CALCULATIONS. ONE CAN MAKE THE STRUCTURES FROM SANDBAGS DOUBLE OR TRIPLE-LINED WITH PLASTIC SHEETING OF AT LEAST 10-MIL THICKNESS THAT HAS NO HOLES OR TEARS.
- SELF-INSTALLED BELOW-GRADE WASHOUTS SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAILS AT THE END OF THIS MEASURE, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FT. THEY MUST BE SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE EXPECTED TO BE GENERATED IN BETWEEN CLEANOUT PERIODS.
  - LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.
  - PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

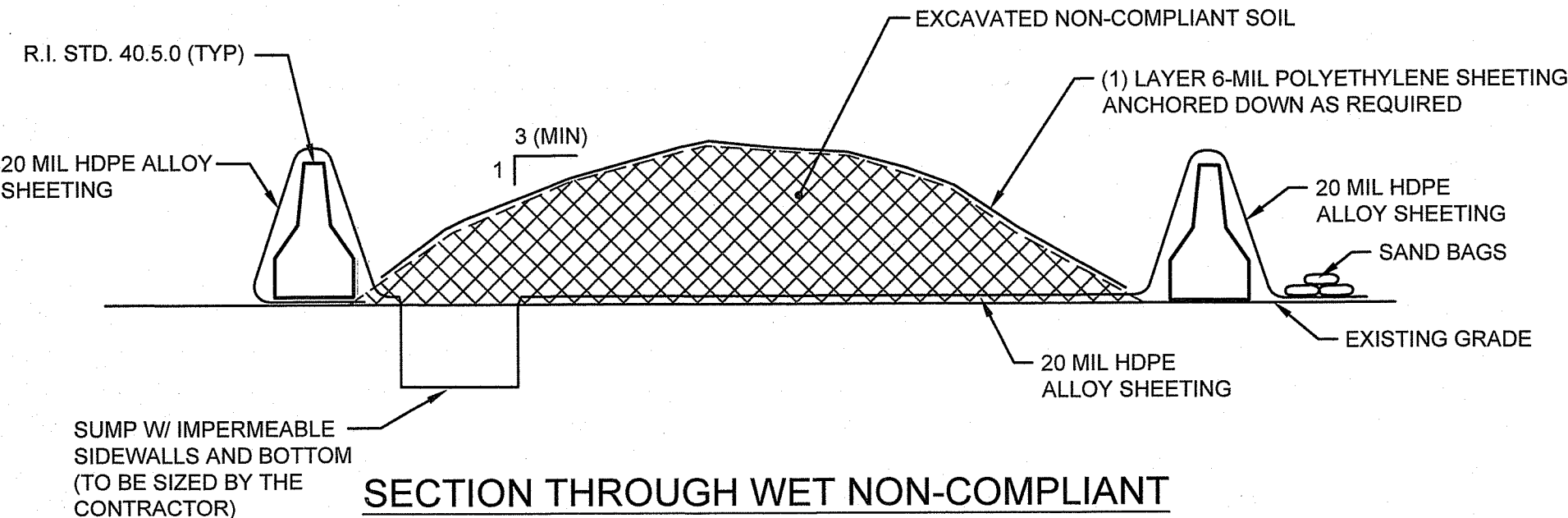
**TEMPORARY CONCRETE WASHOUT**  
NOT TO SCALE



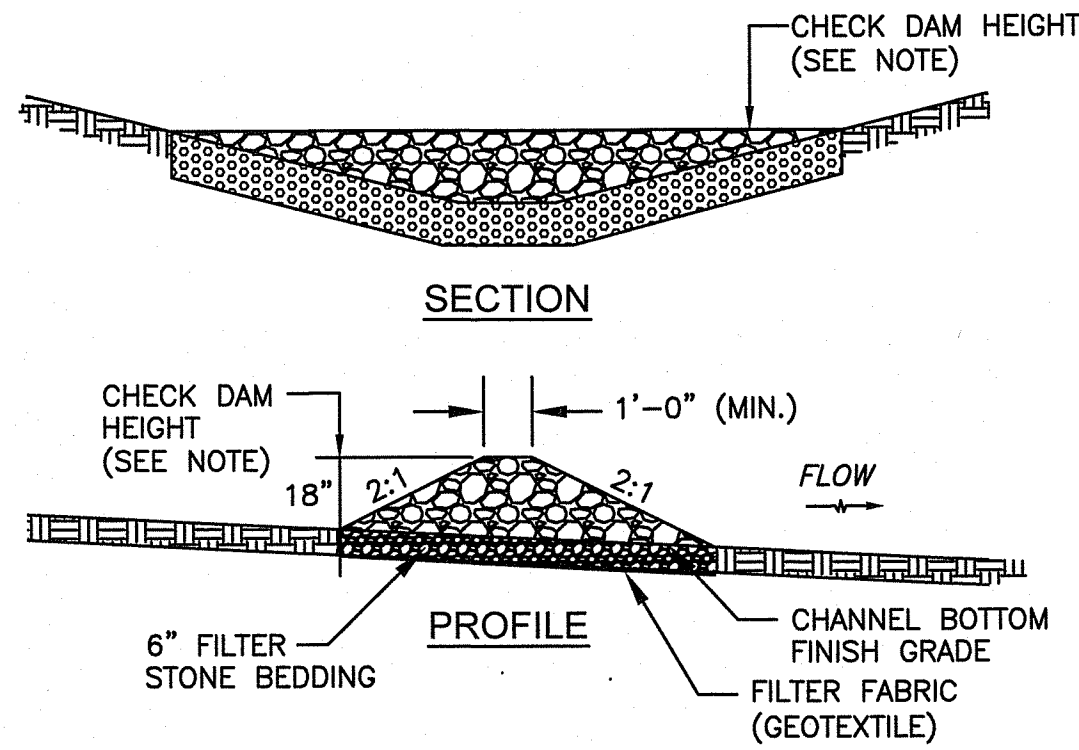
**DRY NON-COMPLIANT STOCKPILED MATERIAL**  
NOT TO SCALE

**NOTES:**

- THE CONTRACTOR SHALL COVER THE CONTAMINATED SOIL STOCKPILE WITH 6-MIL POLYETHYLENE SHEETING AND SECURE COVER AT THE END OF EACH WORK DAY.
- THE CONTRACTOR SHALL PROVIDE AN IMPERMEABLE, 20MIL HDPE ALLOY SHEETING LINED SUMP TO COLLECT WATER THAT DRAINS FROM THE STOCKPILED CONTAMINATED SOIL/SEDIMENT.

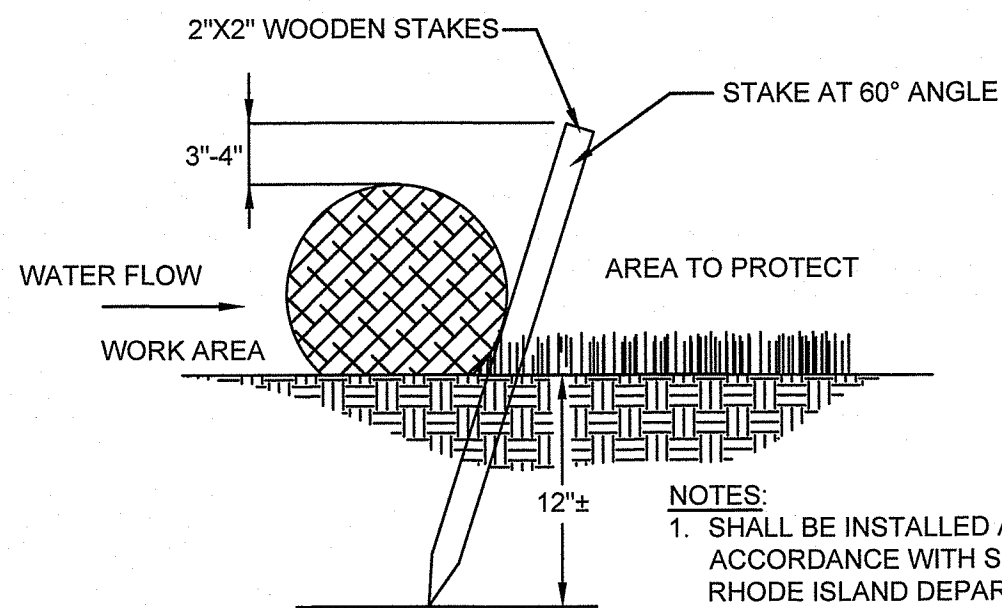


**SECTION THROUGH WET NON-COMPLIANT SOIL/SEDIMENT STOCKPILE**  
NOT TO SCALE



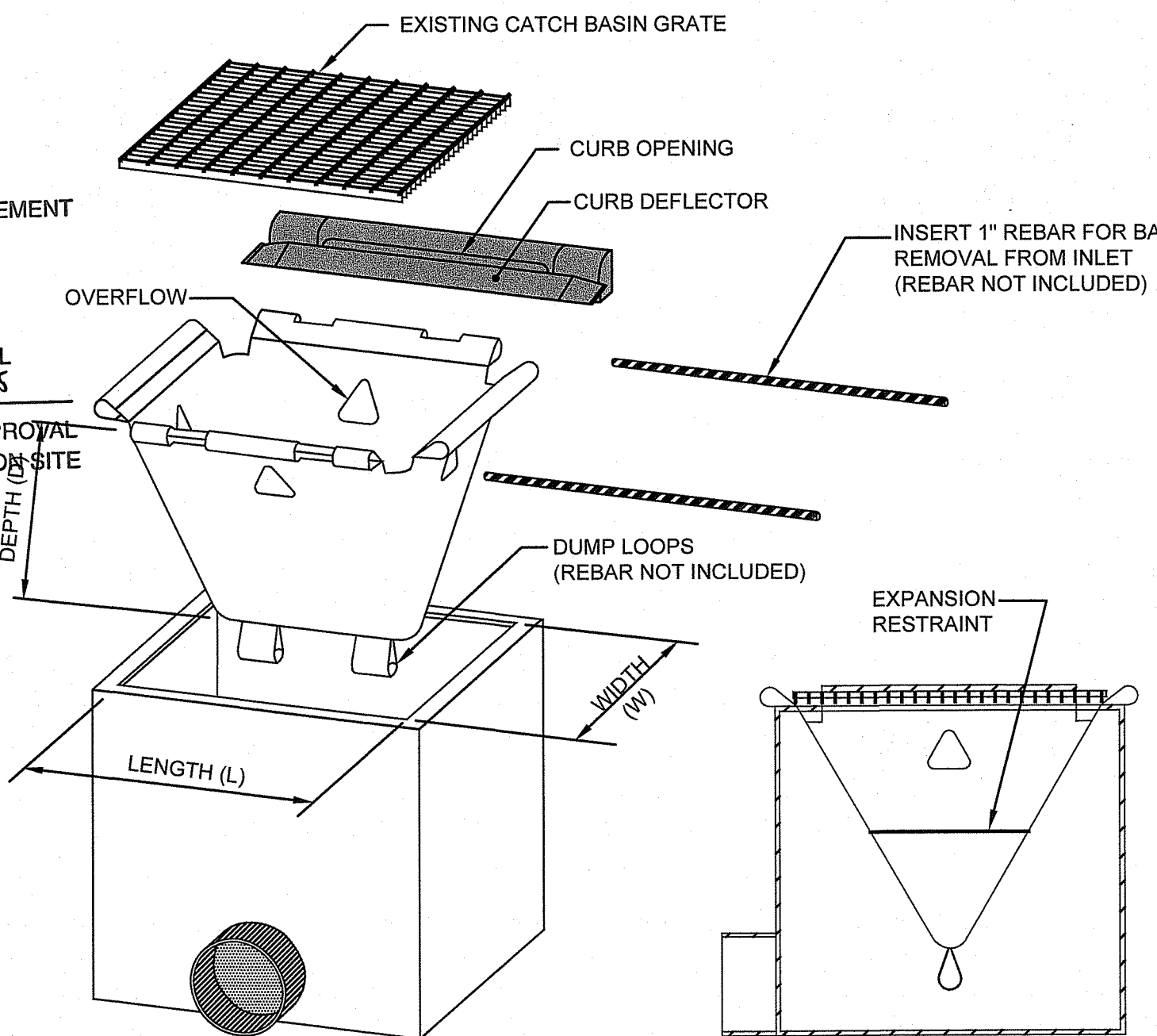
**STONE BAFFLE CHECK DAM** (SB)  
NOT TO SCALE

- STONE SHALL BE R-4 RIPRAP AND MEET ALL APPLICABLE REQUIREMENTS SET FORTH UNDER M.10.03 OF THE STANDARD SPECIFICATIONS.
- THE CONVEYANCE SHALL BE FINISH GRADED AND STABILIZED WITH EROSION CONTROL BLANKETING PRIOR TO PLACEMENT AND CONSTRUCTION OF STONE BAFFLES.
- THE HEIGHT OF EACH STONE BAFFLE IS 18-INCHES UNLESS OTHERWISE NOTED ON PLAN.
- THE STONE BAFFLE SHALL BE CONSTRUCTED TO MAINTAIN A LEVEL CREST ELEVATION BETWEEN SIDE SLOPES.



**12-INCH COMPOST FILTER SOCK** (CFS)  
NOT TO SCALE

- NOTES:**
- SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 206 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.



**CATCH BASIN PROTECTION TYPE B** (CBP)  
NOT TO SCALE

Environmental Management  
JAN 24 2025  
Office of Water Resources

EM2

RI DOT

RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 8  
OF: 80

SCALE: AS SHOWN

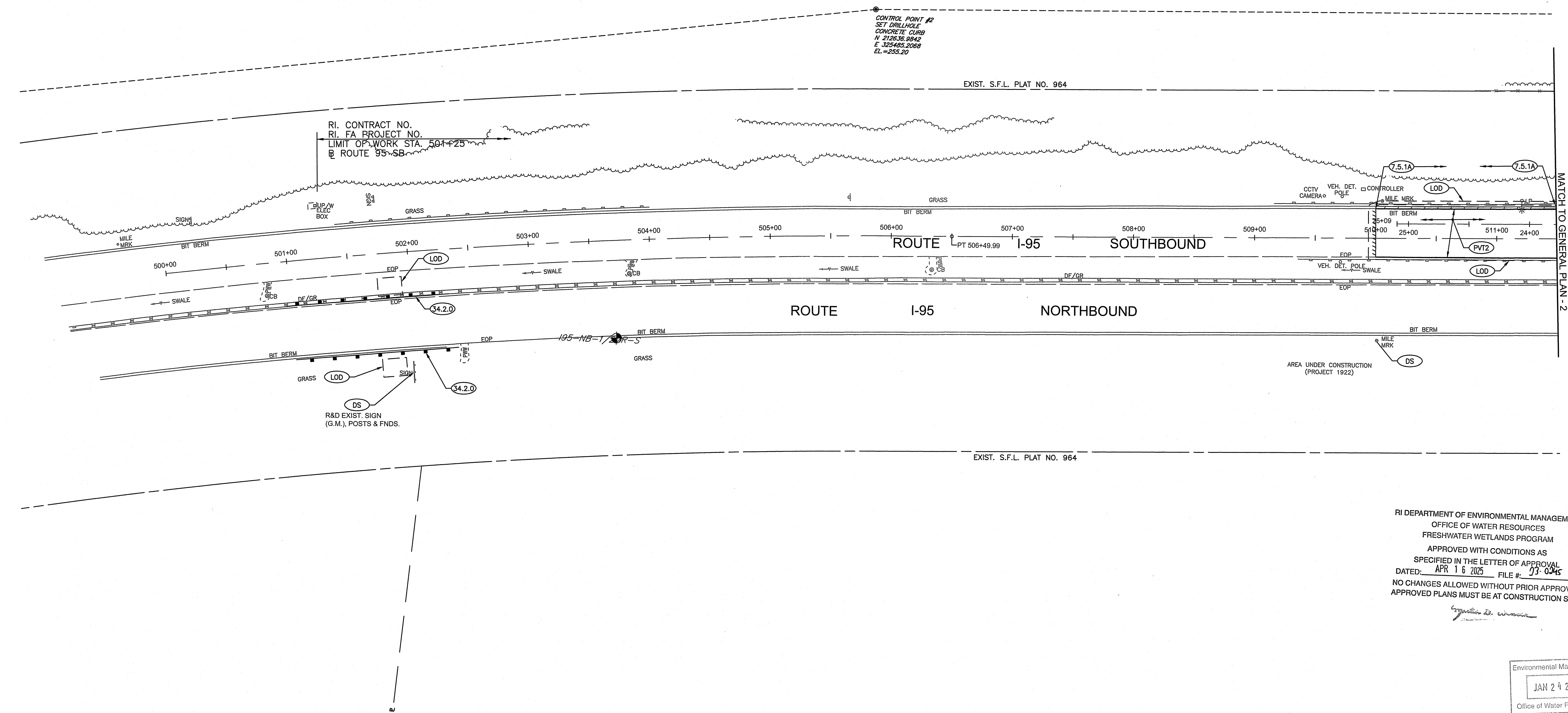
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

MISCELLANEOUS DETAILS-1



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	11	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0045  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*[Signature]*

Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

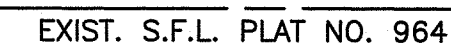
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 11  
OF: 80

SCALE: 1"=40'					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

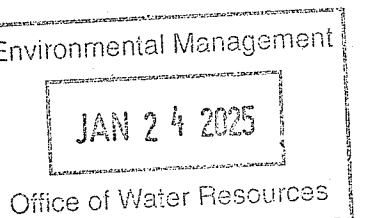
RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1

GENERAL PLAN - 1

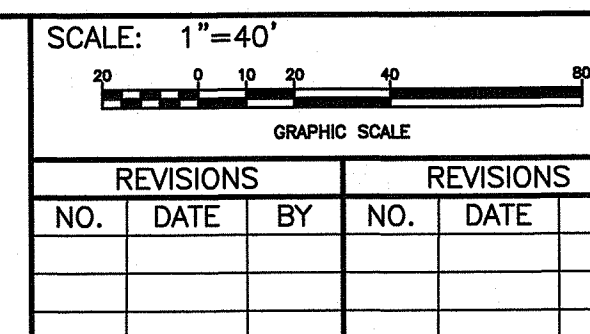




Ernest D. Wences



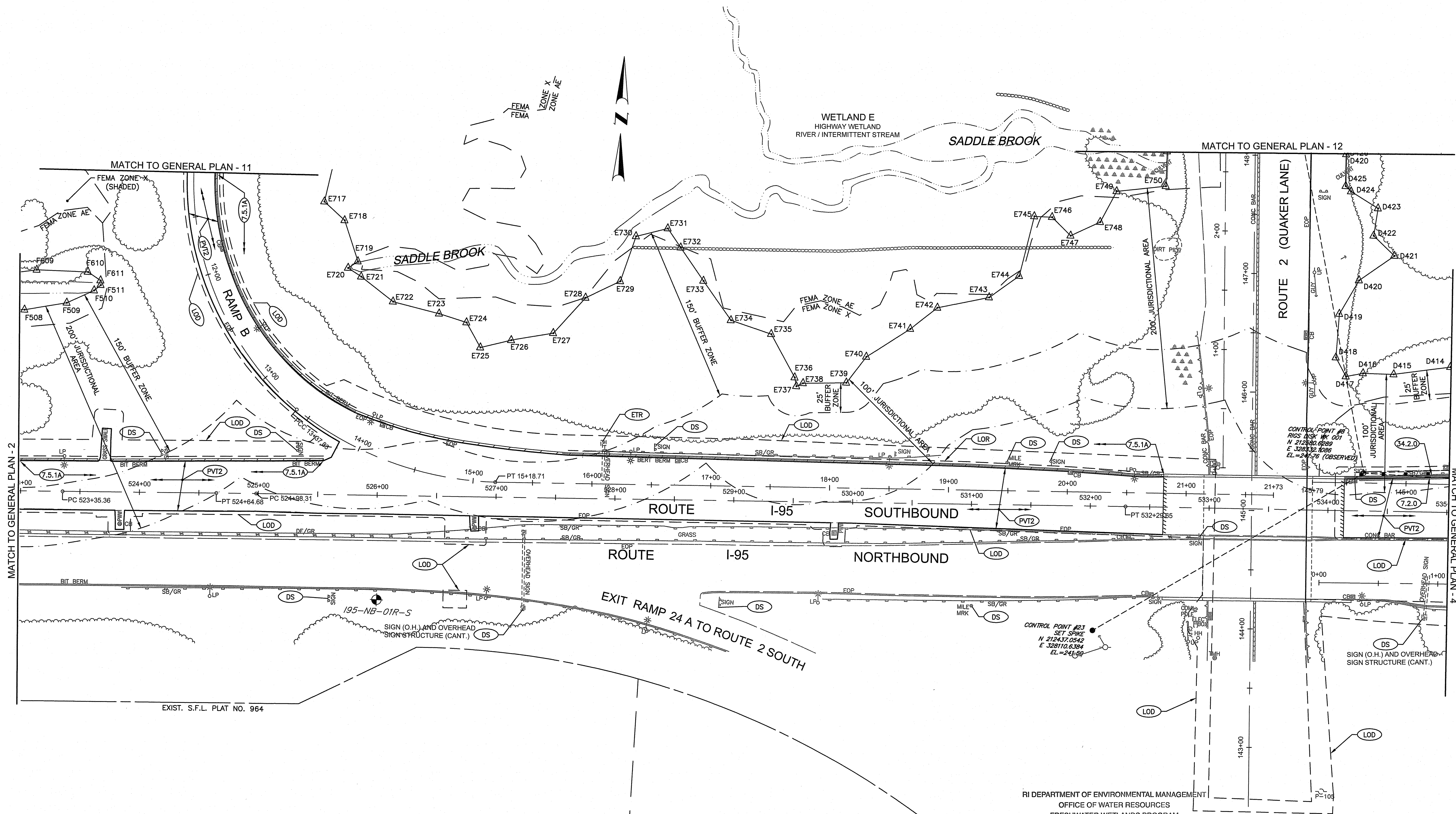
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 12  
OF: 80



## GENERAL PLAN - 2



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	13	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 13  
OF: 80

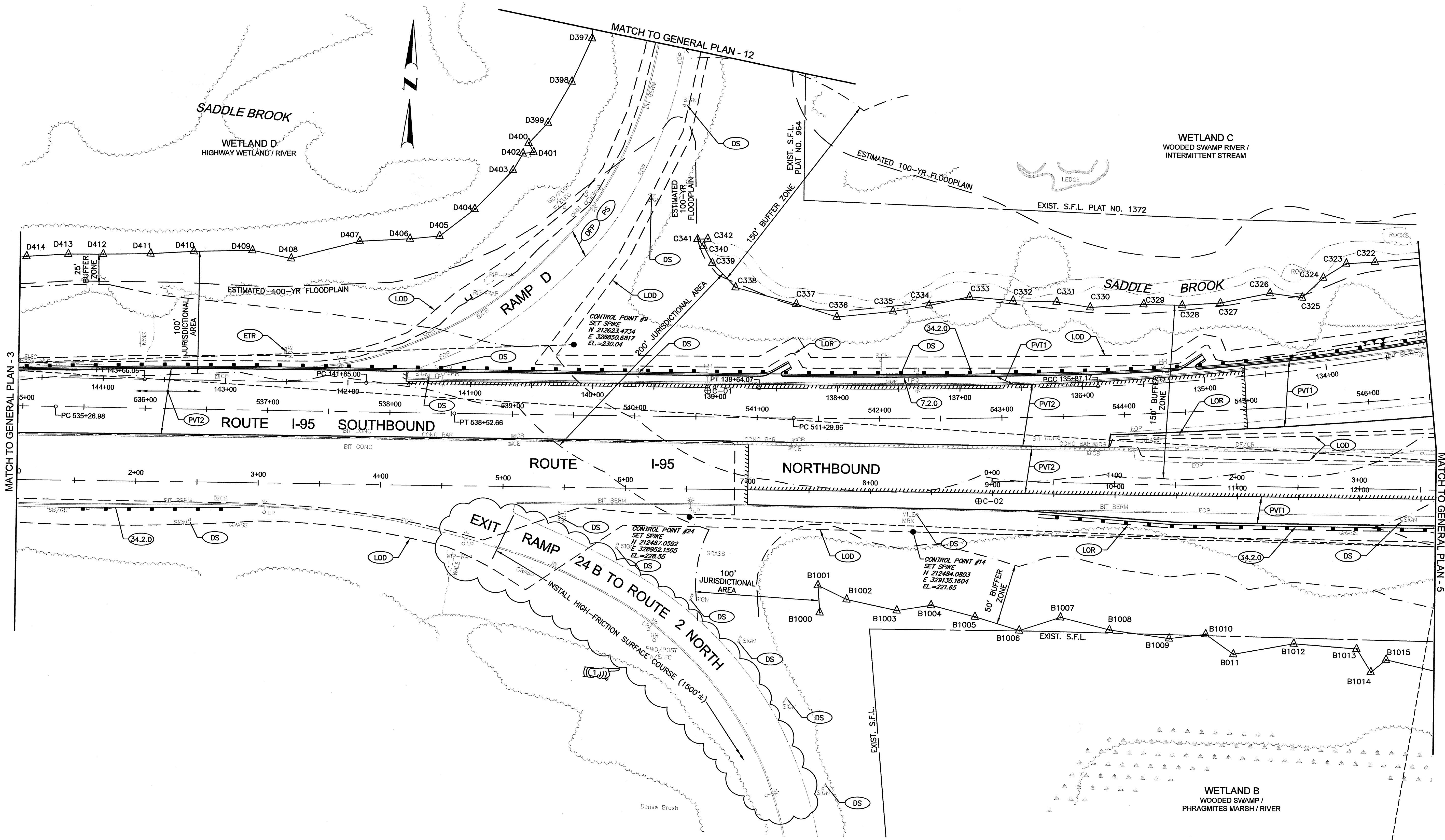
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

GENERAL PLAN - 3



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	14	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Stephen D. Seneseck*

Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

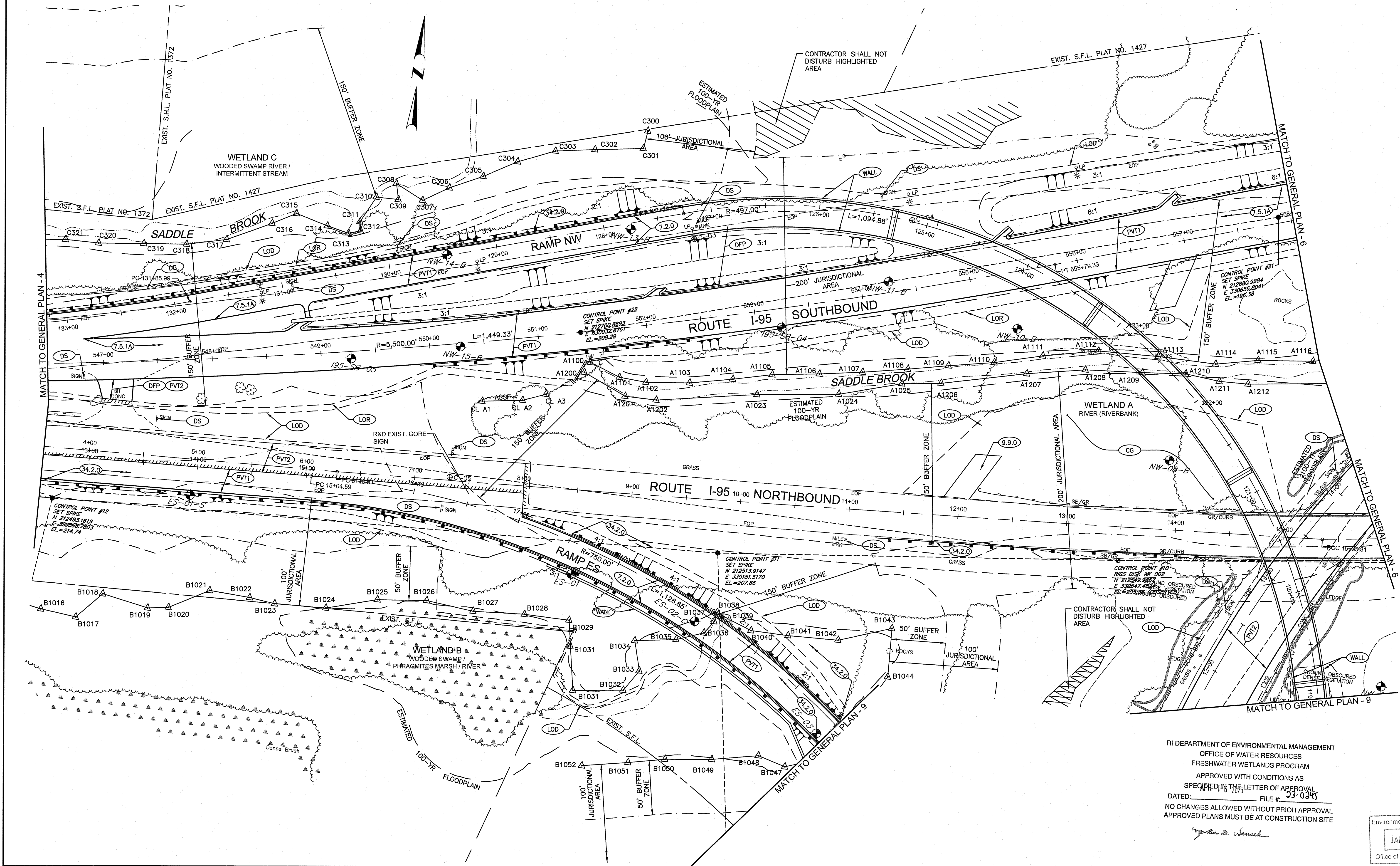
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 14  
OF: 80

SCALE: 1"=40'					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/4/24	BSL			

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
GENERAL PLAN - 4



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	15	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: 1/23/25 FILE # 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management  
JAN 24 2025  
Office of Water Resources



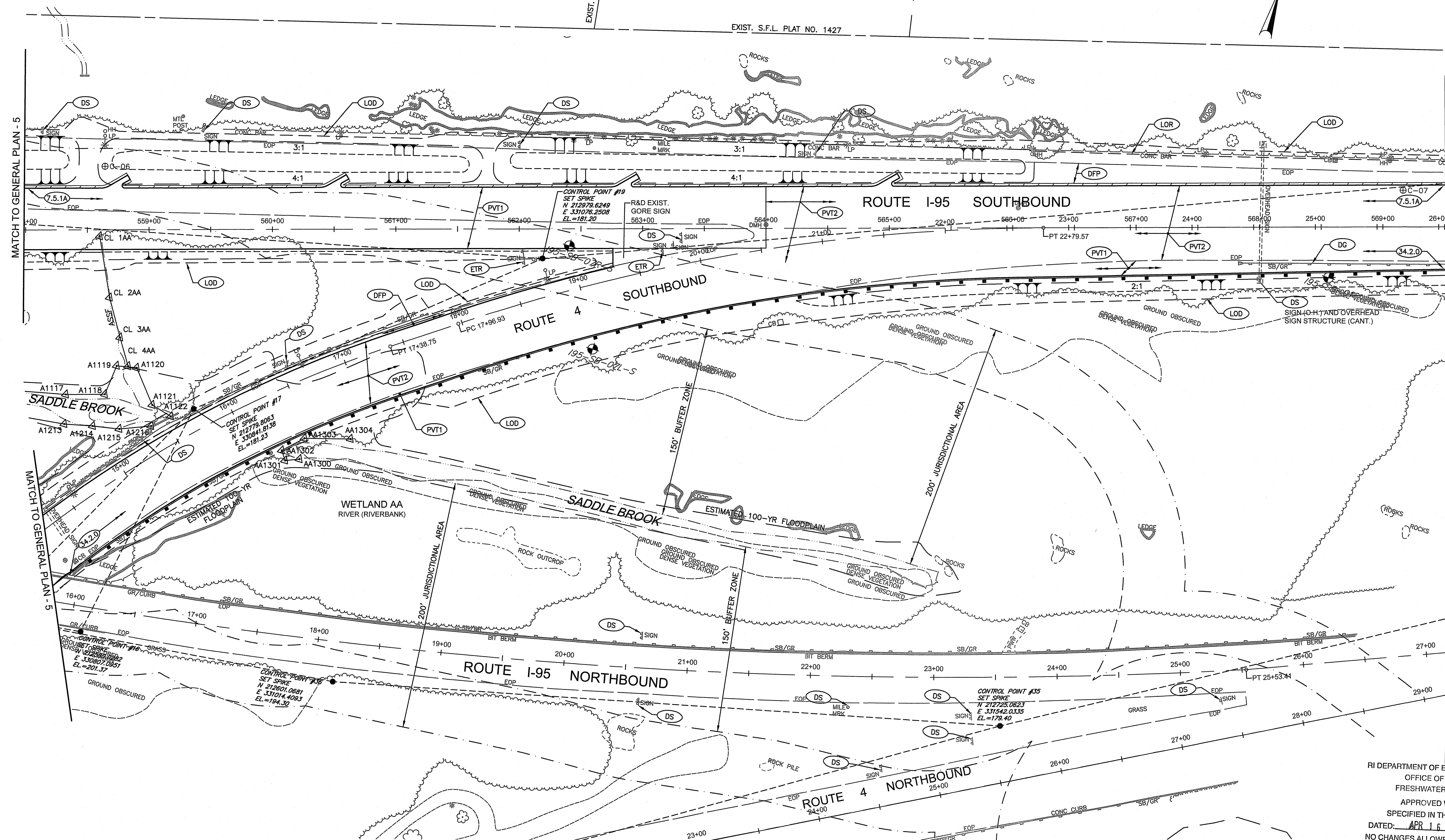
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 15  
OF: 80

SCALE: 1"=40'					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
GENERAL PLAN - 5  
RHODE ISLAND





RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Jonathan D. Wencel*

Environmental Management  
JAN 24 2025  
Office of Water Resources

**GM2**



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 16  
OF: 80

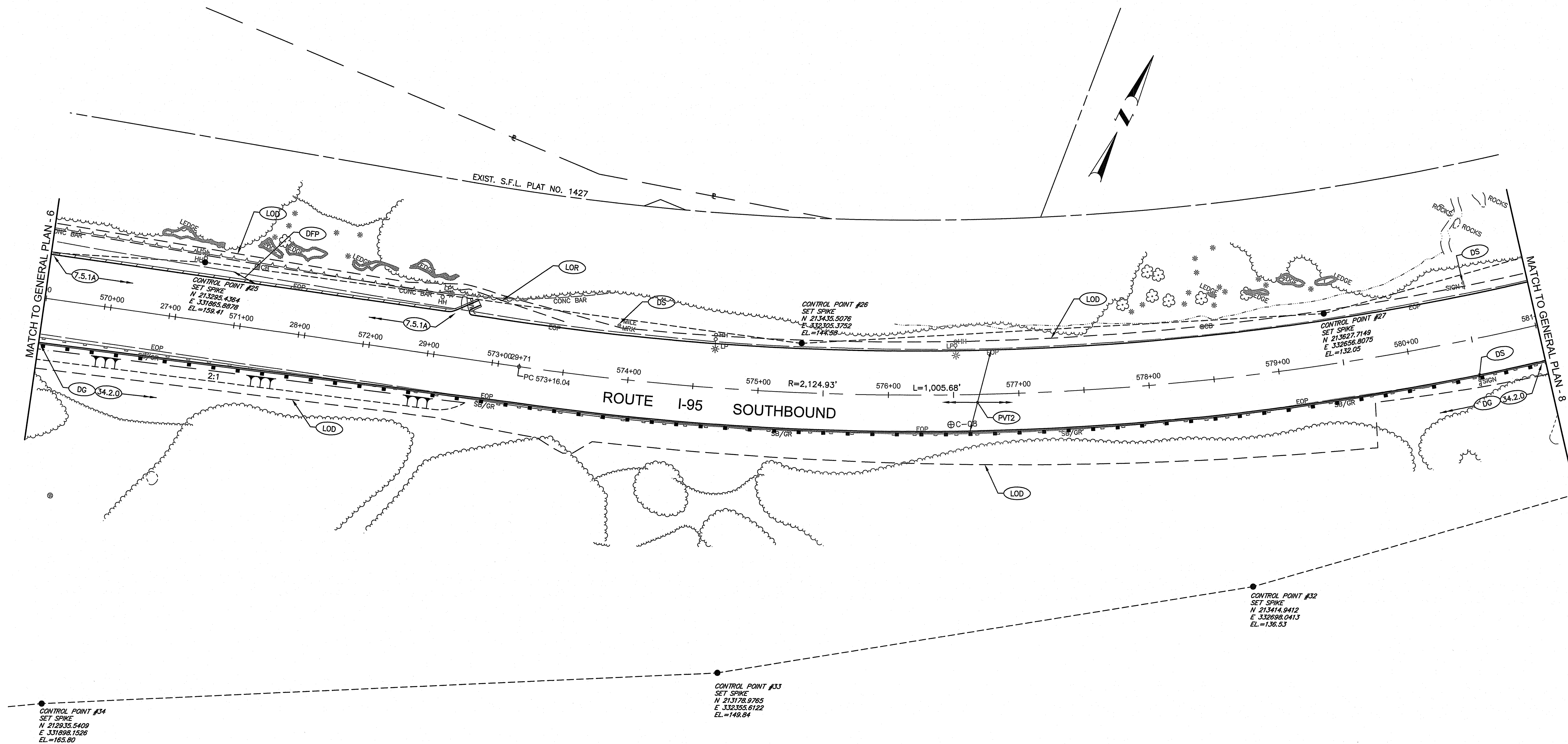
SCALE: 1"=40'					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

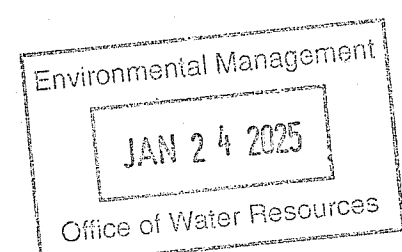
GENERAL PLAN - 6



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	17	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Christopher D. Wenzel*



**GM2**



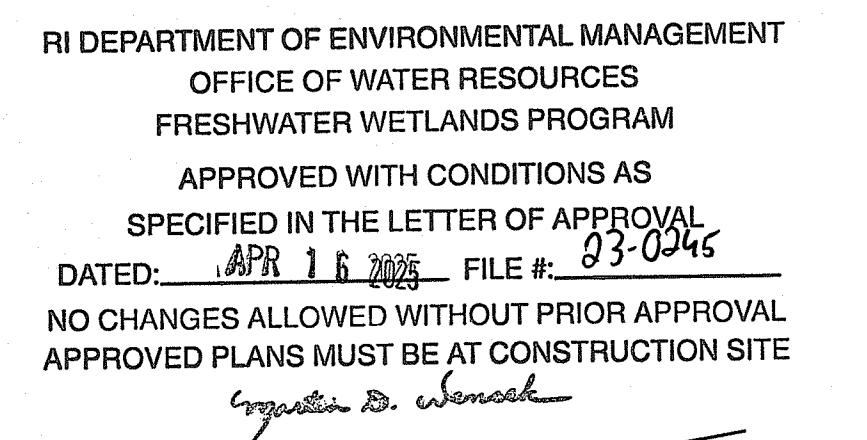
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 17  
OF: 80

SCALE: 1"=40'					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

GENERAL PLAN - 7



# RECONSTRUCTION OF ROUTE I-95 AND ROUTE 4 INTERCHANGE VOLUME: 1

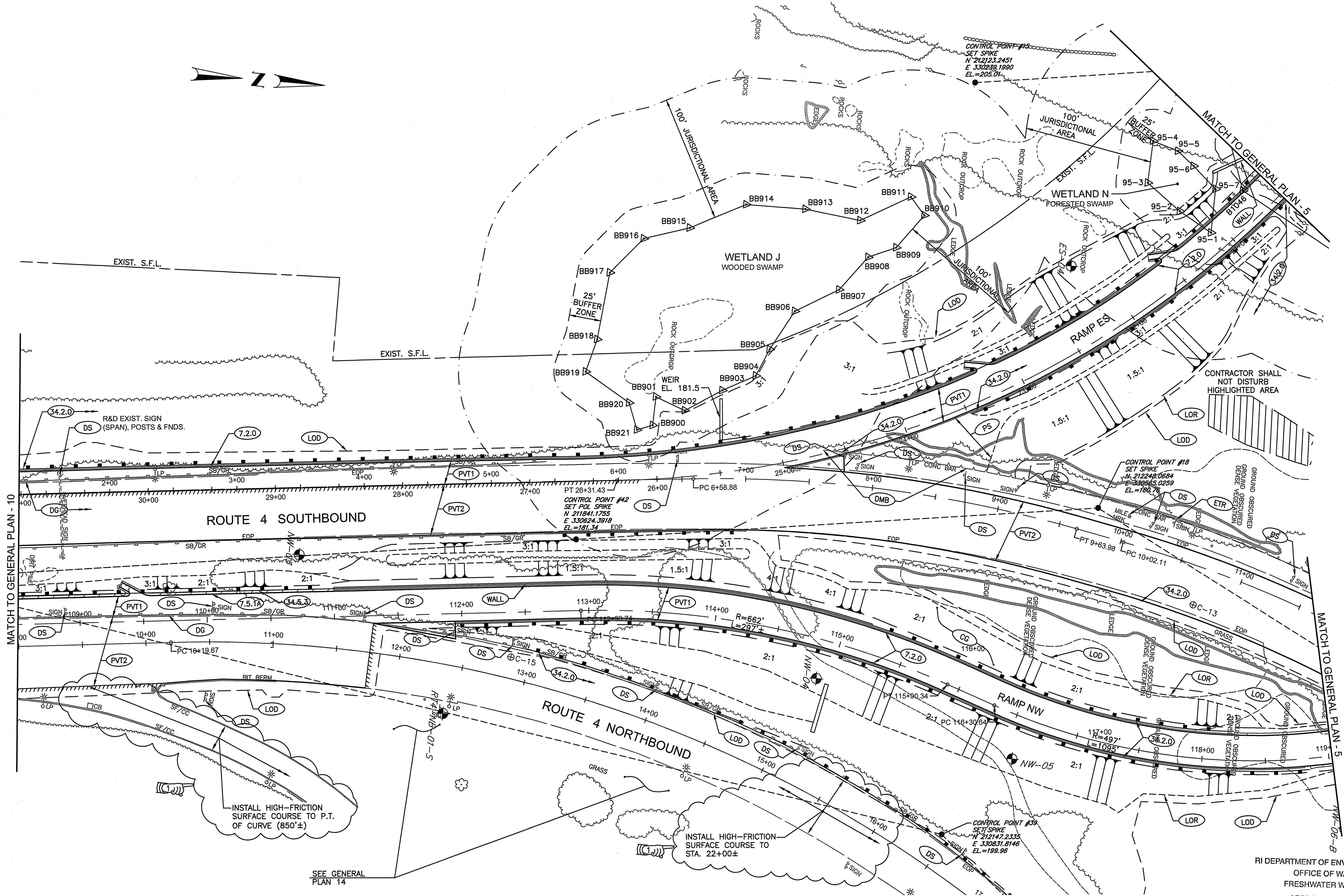
0978\_V1\_000\_GENERAL PLANS

SCALE: 1"=40'

A horizontal scale bar with alternating black and white segments. It is marked with numbers 20, 0, 10, 20, 40, and 80. Below the bar, the text "GRAPHIC SCALE" is printed.

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY





RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Regina D. Wondol*

Environmental Management  
JAN 24 2025  
Office of Water Resources

ADDENDUM NO. 1



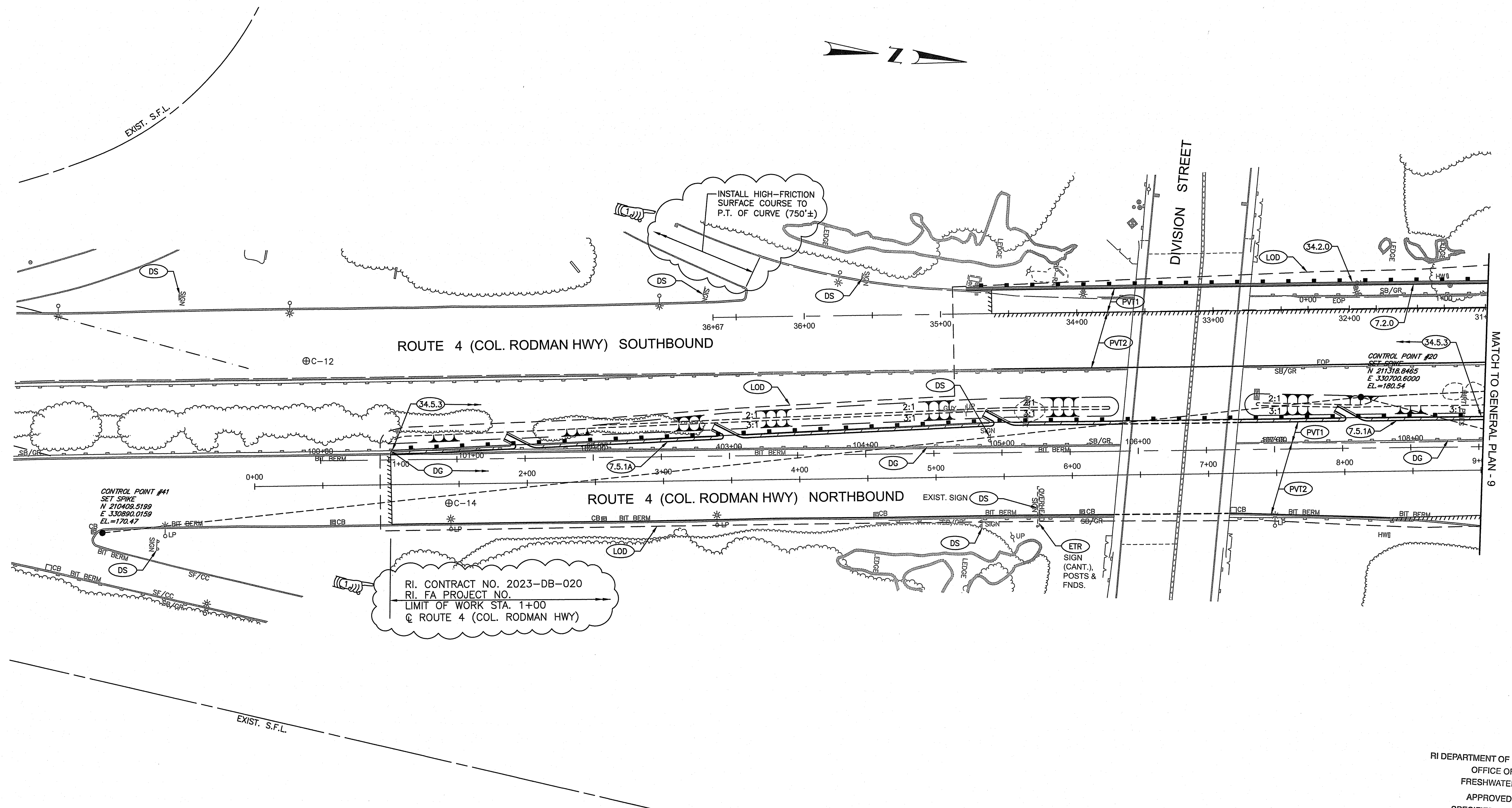
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 19  
OF: 80

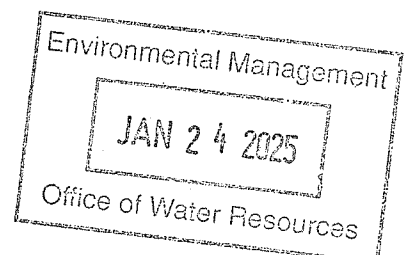
SCALE: 1"=40'					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/4/24	BSL			

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
GENERAL PLAN - 9

RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	20	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Jonathan D. Senneker*



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 20  
OF: 80

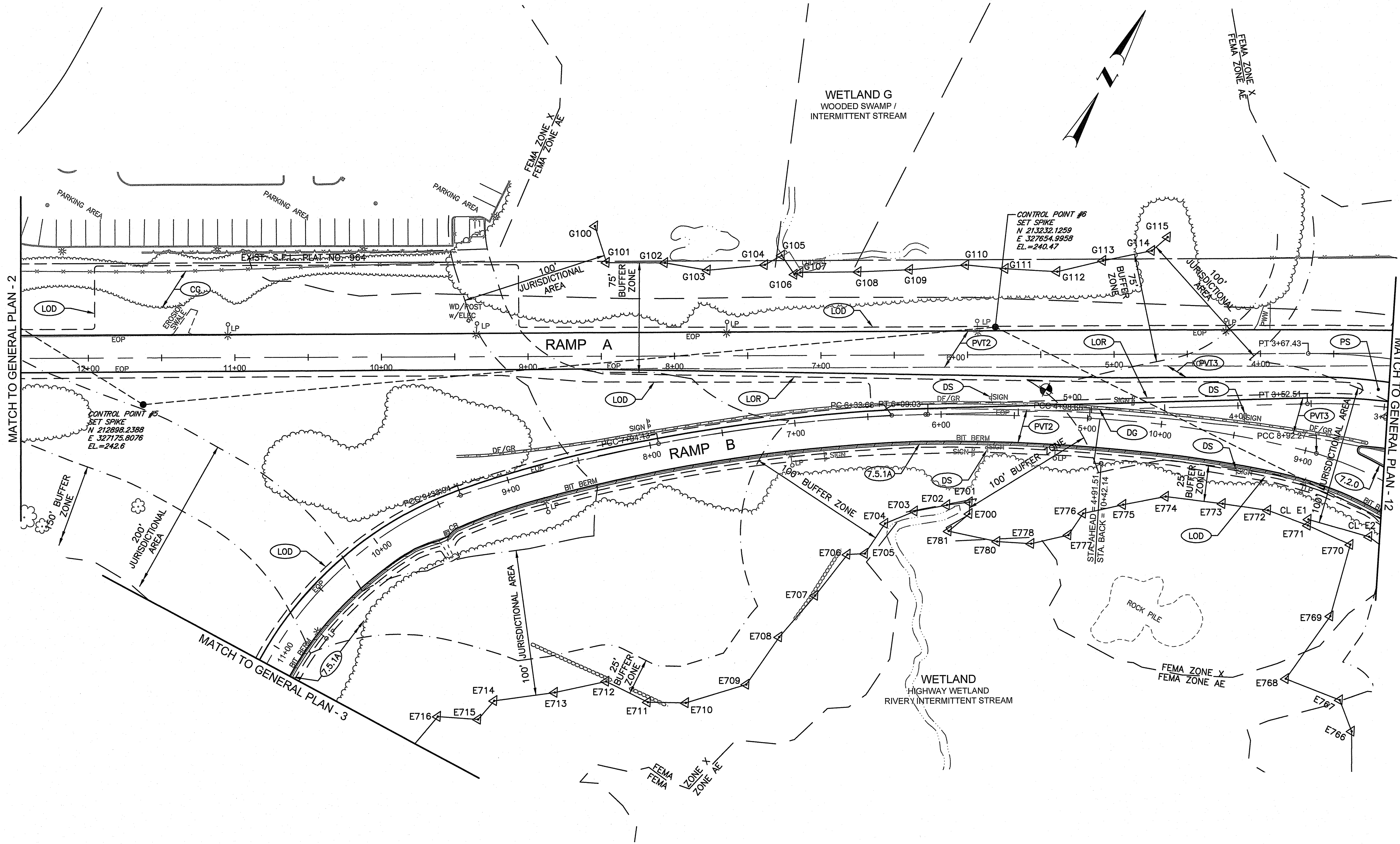
REVISIONS				REVISIONS			
NO.	DATE	BY		NO.	DATE	BY	
1	6/4/24	BSL					

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

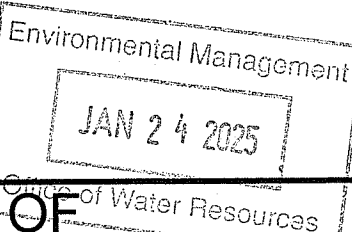
GENERAL PLAN - 10



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	21	80

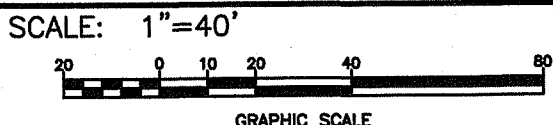


RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Angela B. Wenzel*



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

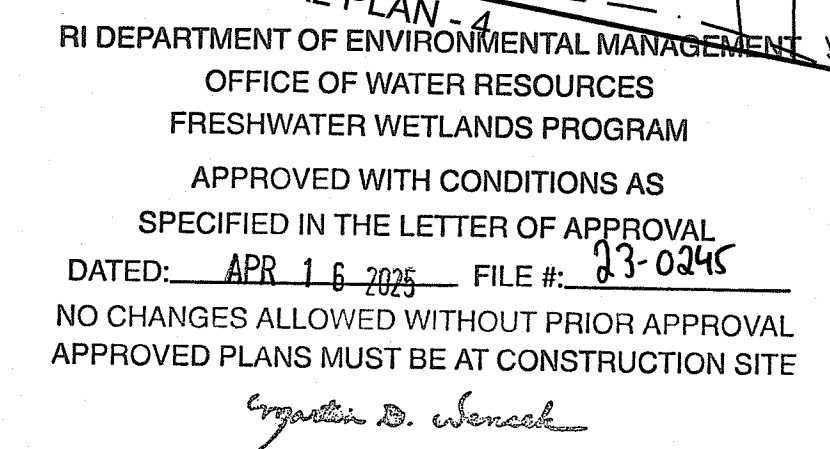
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 21  
OF: 80



REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1

GENERAL PLAN - 11



# RECONSTRUCTION OF ROUTE I-95 AND ROUTE 4 INTERCHANGE VOLUME: 1

0978\_V1\_000\_GENERAL PLANS



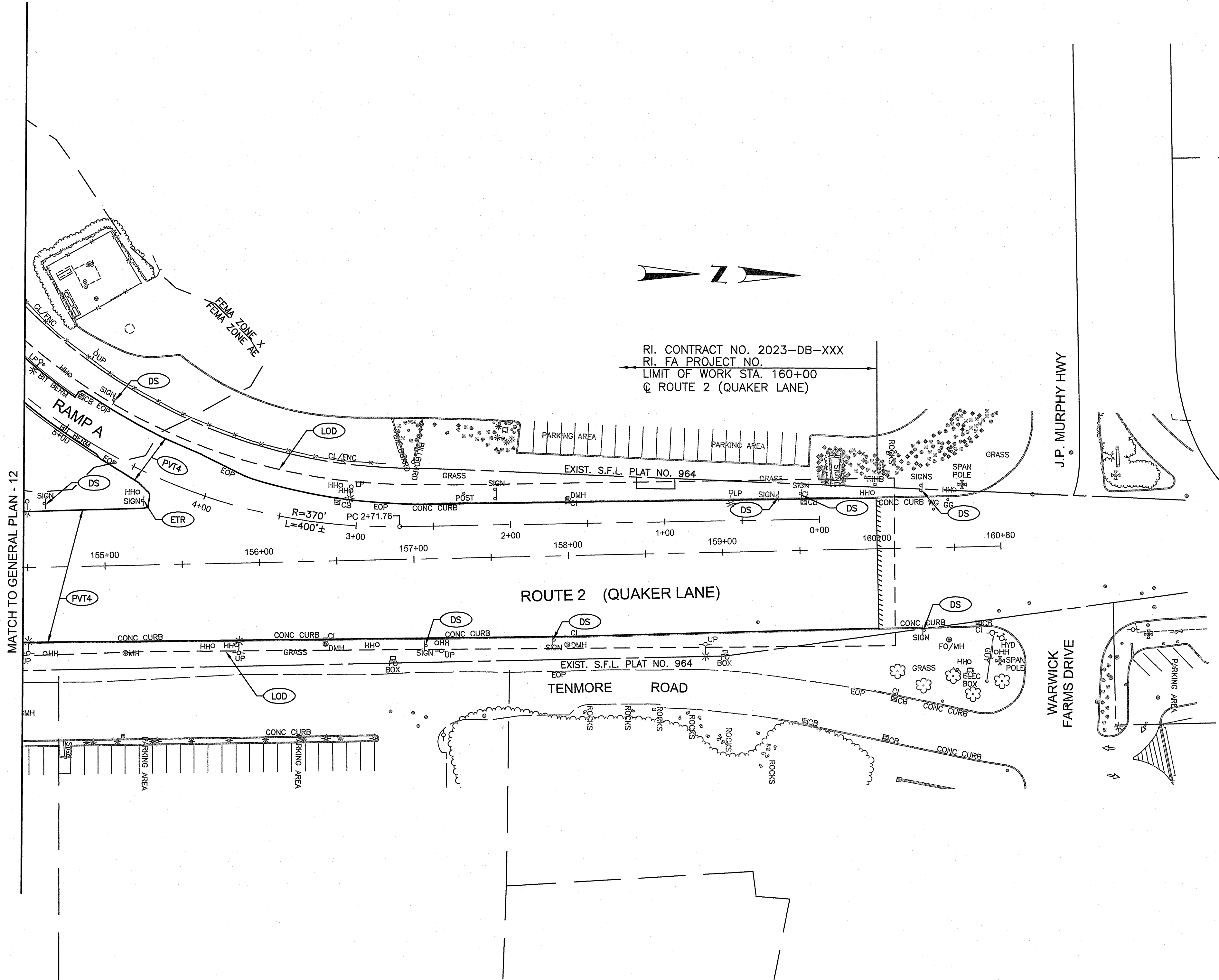
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 22  
OF: 80

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	

# RECONSTRUCTION OF ROUTE I-95 AND ROUTE 4 INTERCHANGE VOLUME: 1



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	23	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Ernest D. Wonsch*

Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 23  
OF: 80

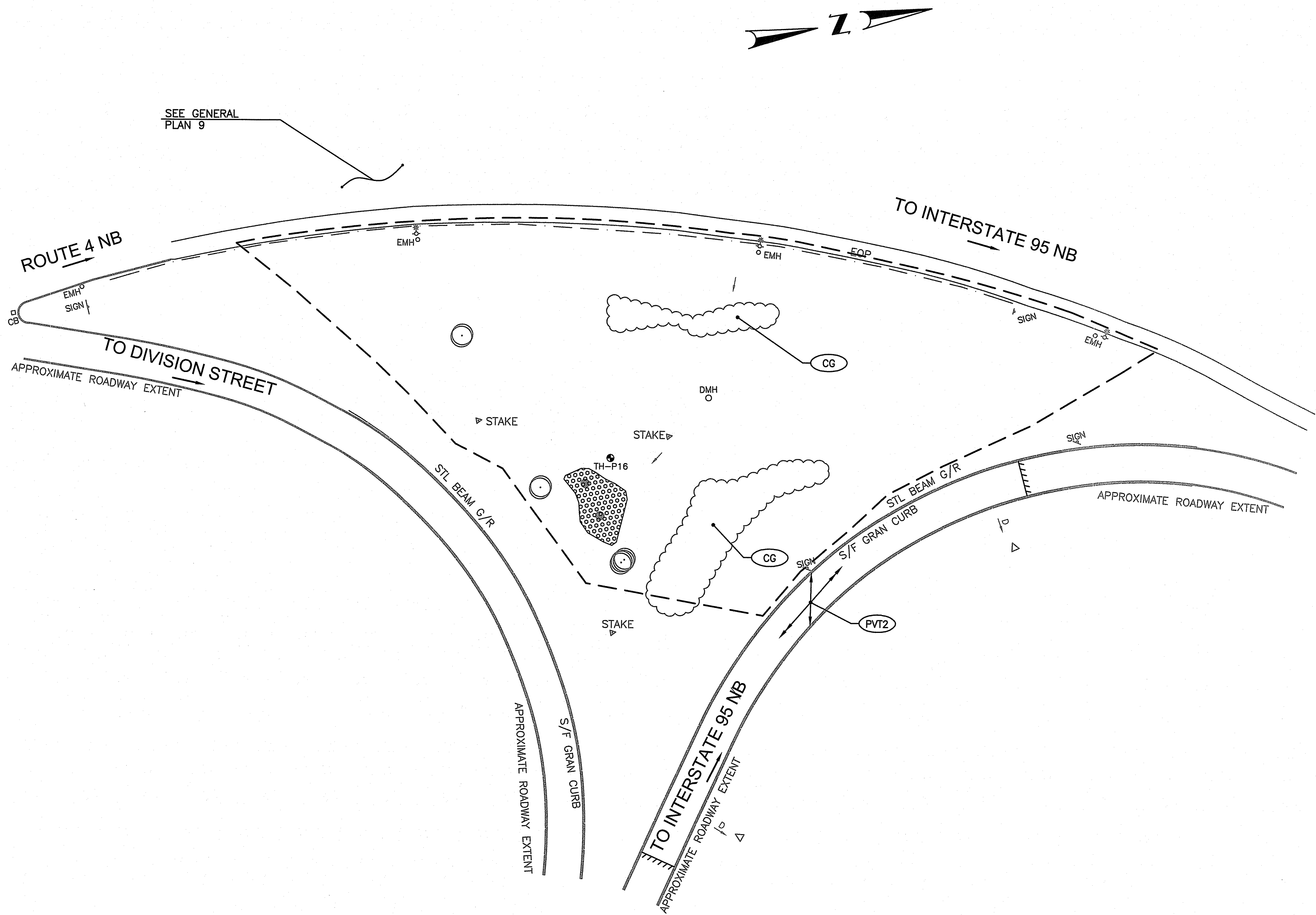
REVISIONS					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK RHODE ISLAND

GENERAL PLAN - 13

RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	24	80

13



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Christopher D. Senechal*

Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

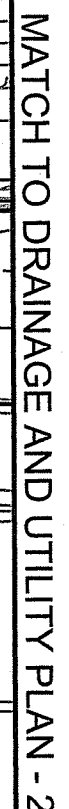
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 24  
OF: 80

REVISIONS						REVISIONS					
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

GENERAL PLAN - 14

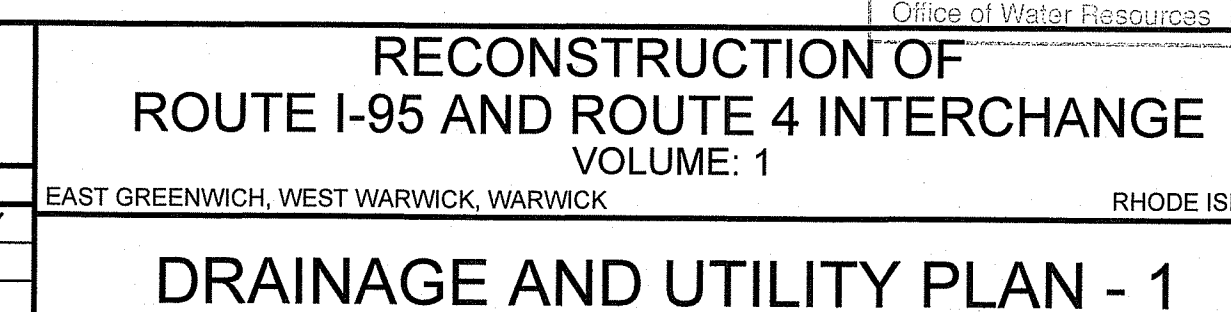




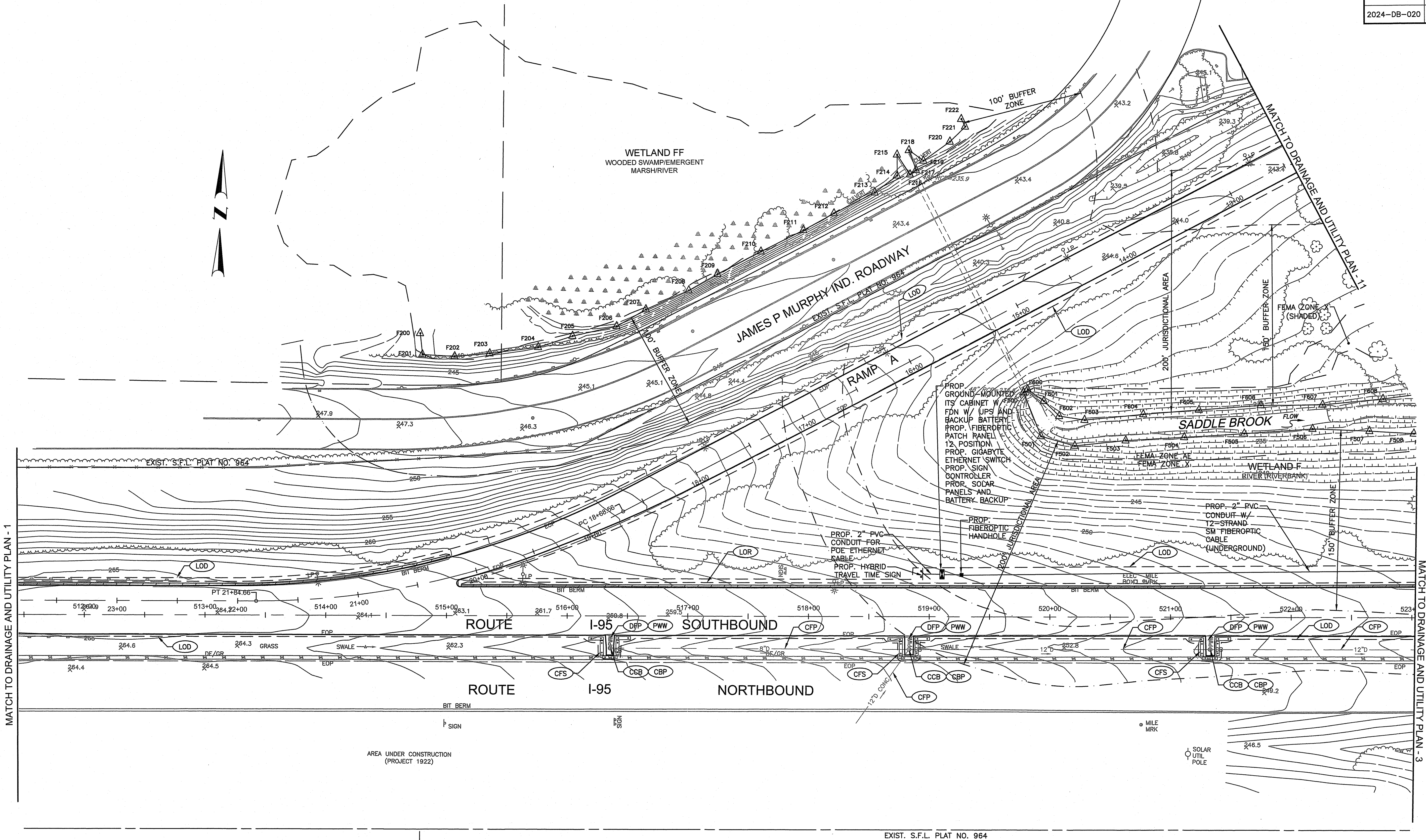
Environmental Management  
JAN 24 2025  
Office of Water Resources



DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 25  
OF: 80



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	26	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management  
JAN 24 2025  
Office of Water Resources



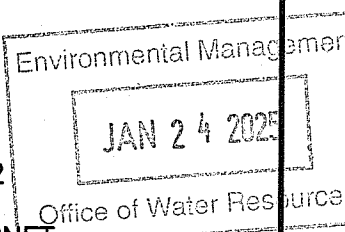
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 26  
OF: 80

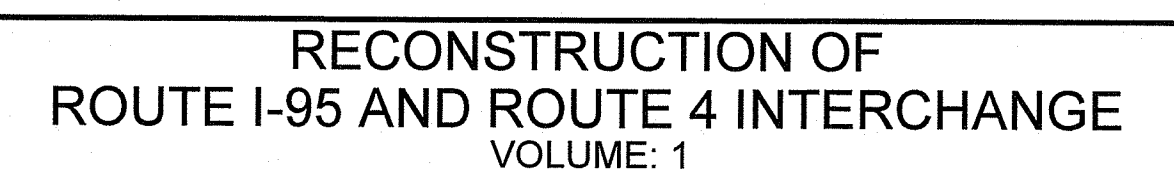
REVISIONS					
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
DRAINAGE AND UTILITY PLAN - 2





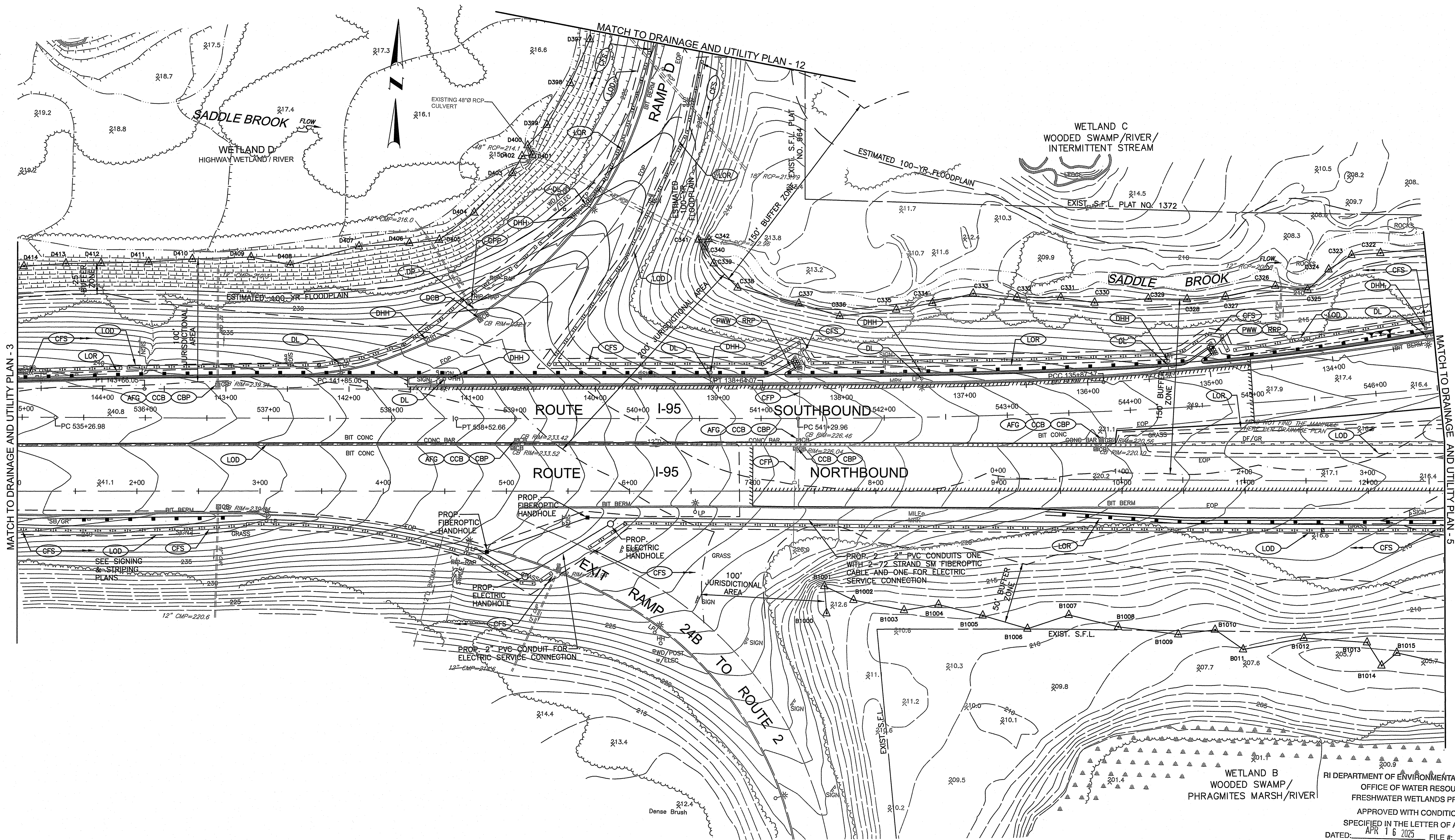
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 27  
OF: 80



40978\_V1\_000\_DRAINUTL PLANS



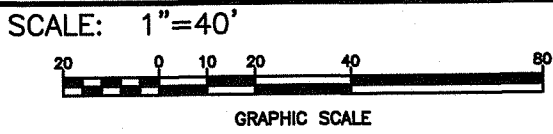
RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	28	80



NOTE: ESTIMATED 100-YEAR FLOODPLAIN BASED ON GM2 ASSOCIATES, INC. CALCULATIONS, PROVIDED IN THE RIDEM SUBMISSION PACKAGE AND WETLAND NARRATIVE DATED NOVEMBER 2023.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature*



DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 28  
OF: 80

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1

DRAINAGE AND UTILITY PLAN - 4

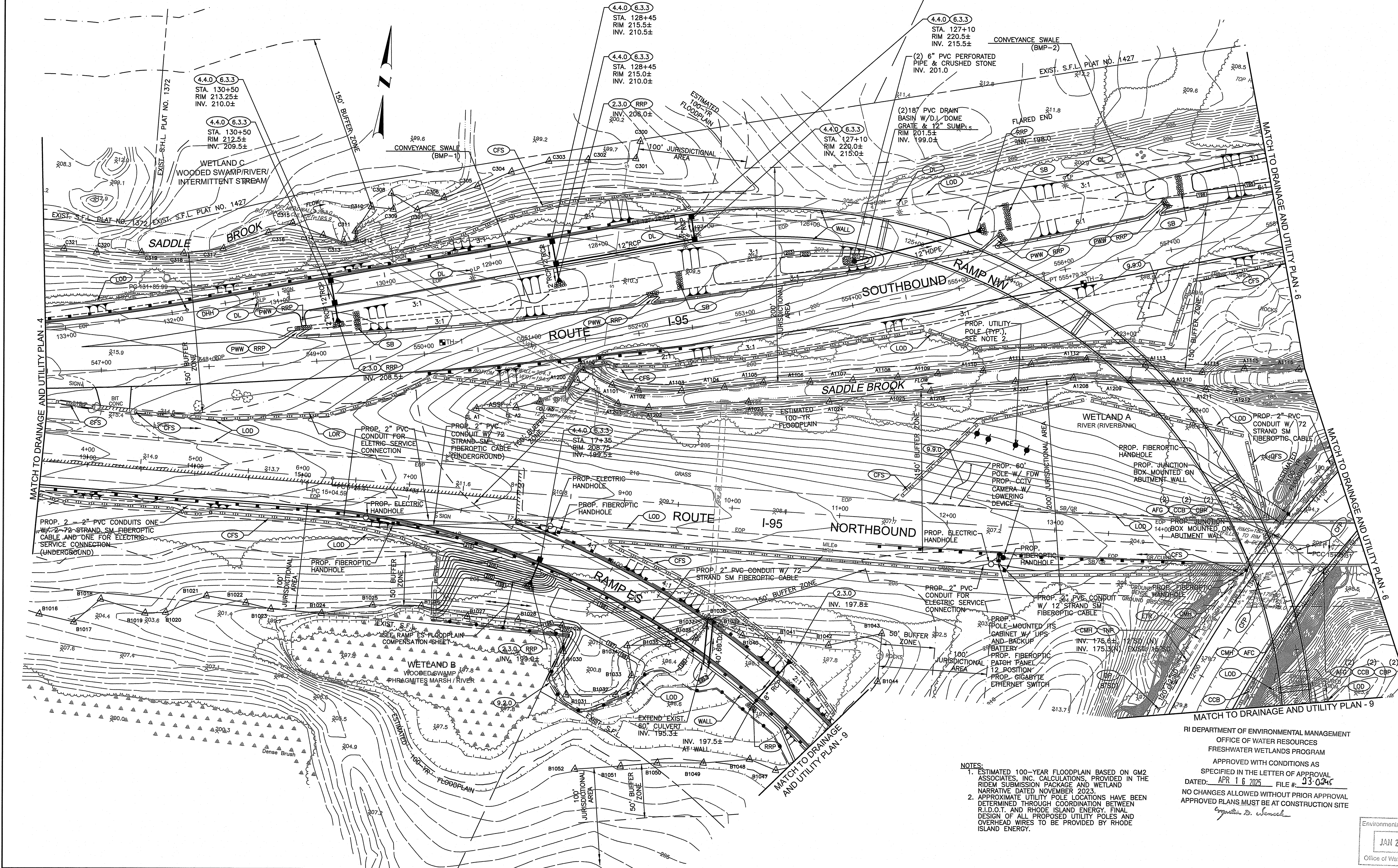


RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

Environmental Management  
JAN 24 2025  
Office of Water Resources



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	29	80



NOTES:  
1. ESTIMATED 100-YEAR FLOODPLAIN BASED ON GM2 ASSOCIATES, INC. CALCULATIONS. PROVIDED IN THE RIDEM SUBMISSION PACKAGE AND WETLAND NARRATIVE DATED NOVEMBER 2023.  
2. APPROXIMATE UTILITY POLE LOCATIONS HAVE BEEN DETERMINED THROUGH COORDINATION BETWEEN R.I.D.O.T. AND RHODE ISLAND ENERGY. FINAL DESIGN OF ALL PROPOSED UTILITY POLES AND OVERHEAD WIRES TO BE PROVIDED BY RHODE ISLAND ENERGY.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Christopher D. Wenzel*

Environmental Management  
JAN 24 2025  
Office of Water Resources



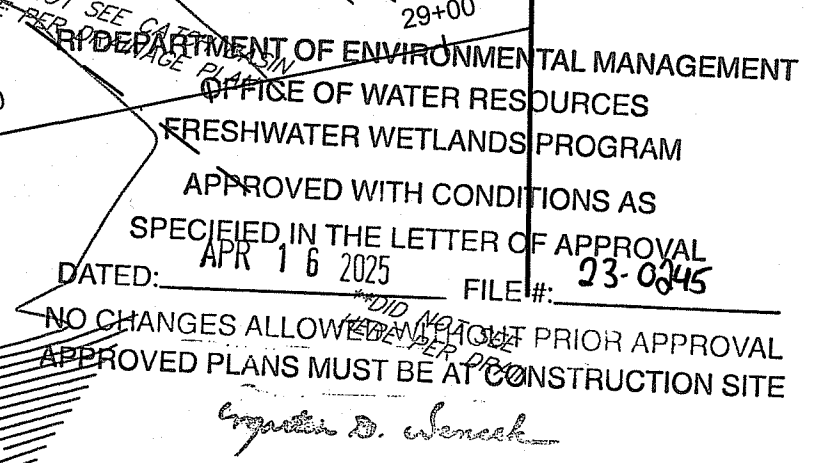
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 29  
OF: 80

SCALE: 1"=40'					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
DRAINAGE AND UTILITY PLAN - 5

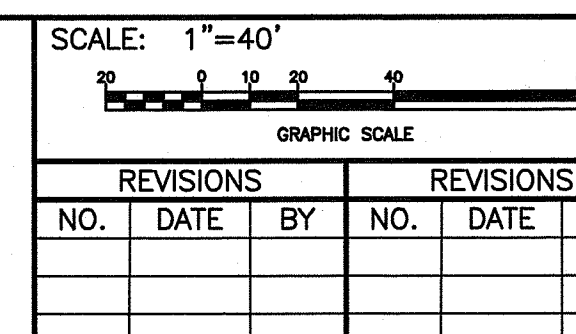




Environmental Management  
JAN 24 2025  
Office of Water Resources



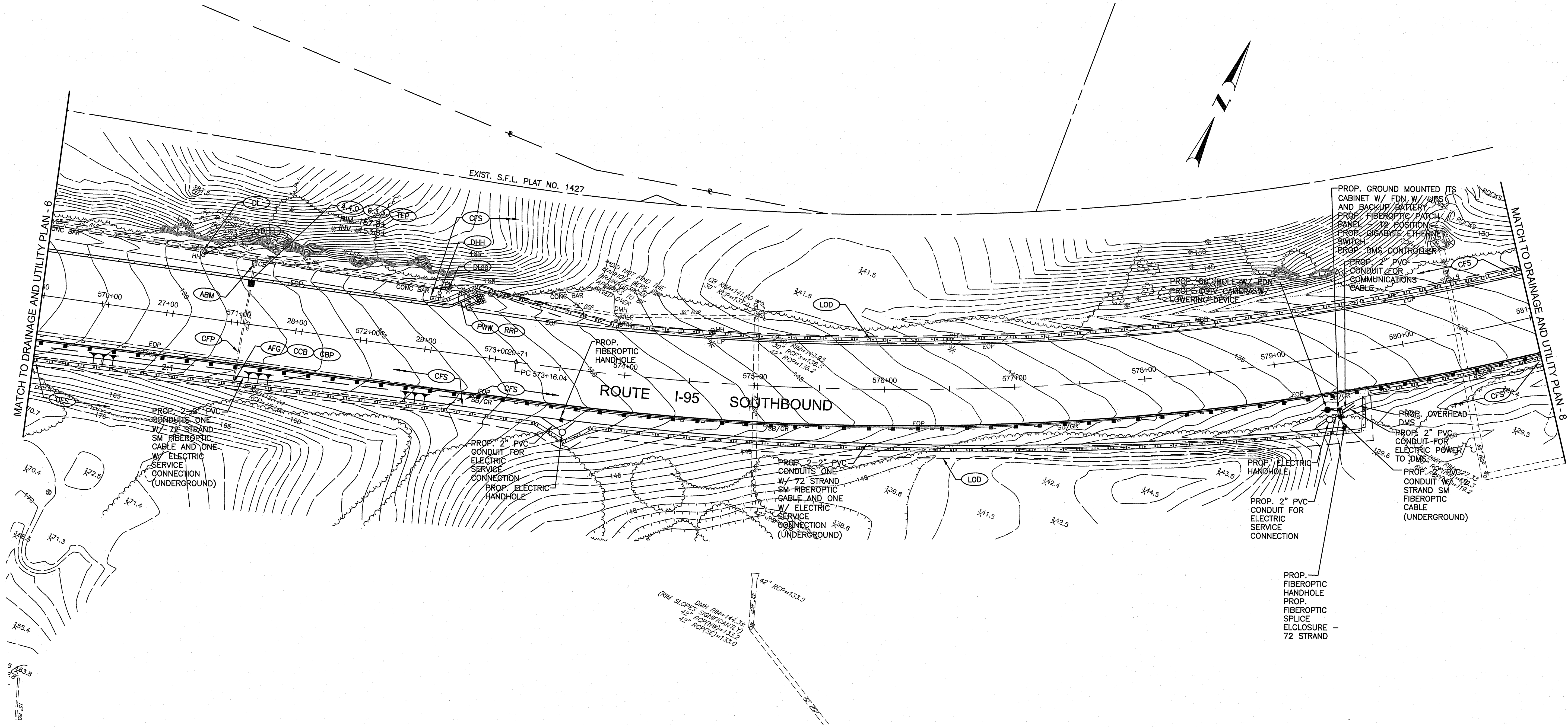
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 30  
OF: 80



DRAINAGE AND UTILITY PLAN - 6



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	31	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature*

Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 31  
OF: 80

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

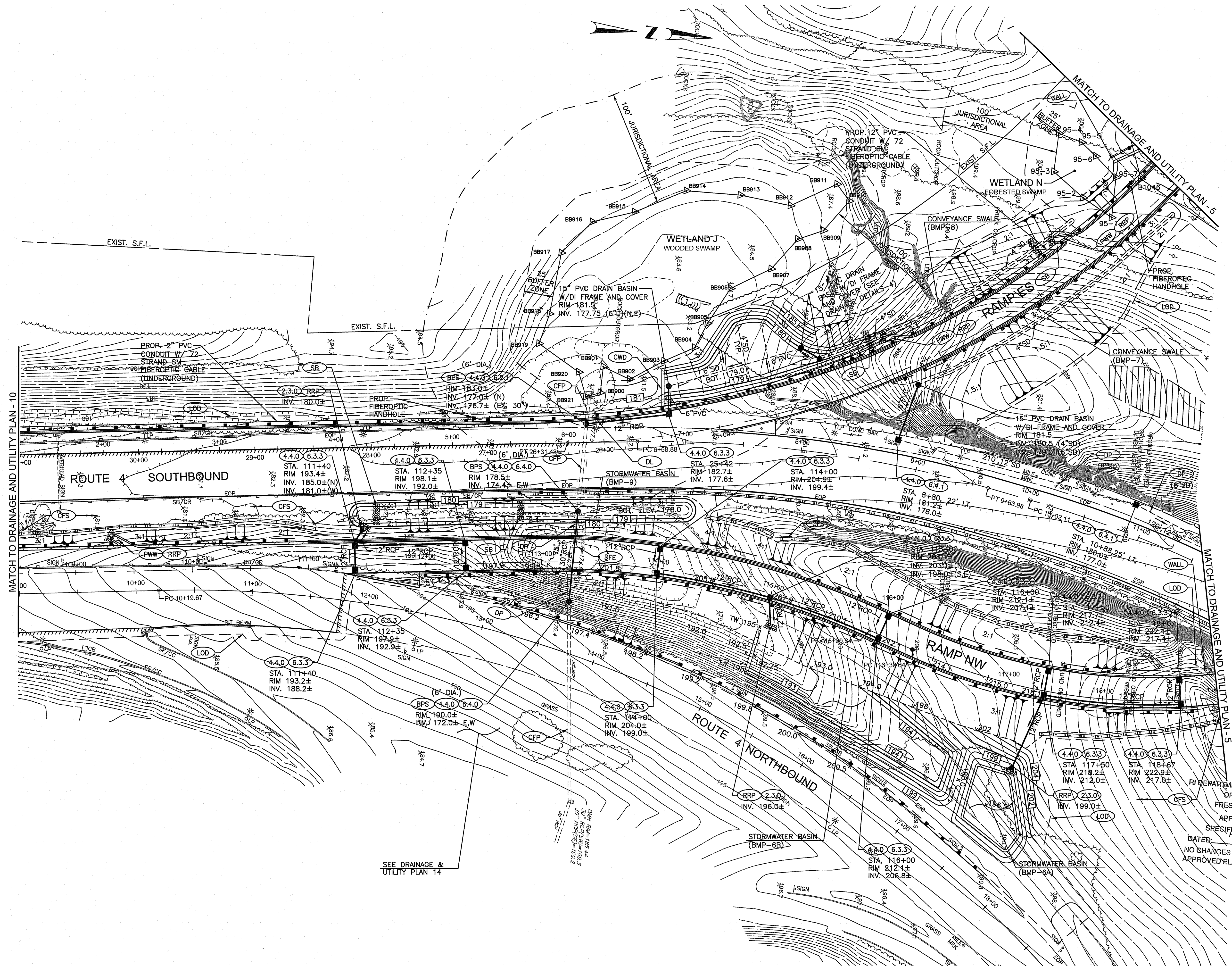
RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
DRAINAGE AND UTILITY PLAN - 7





RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	33	80

R-1



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management  
JAN 24 2025  
Office of Water Resources

ADDENDUM NO. 1



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

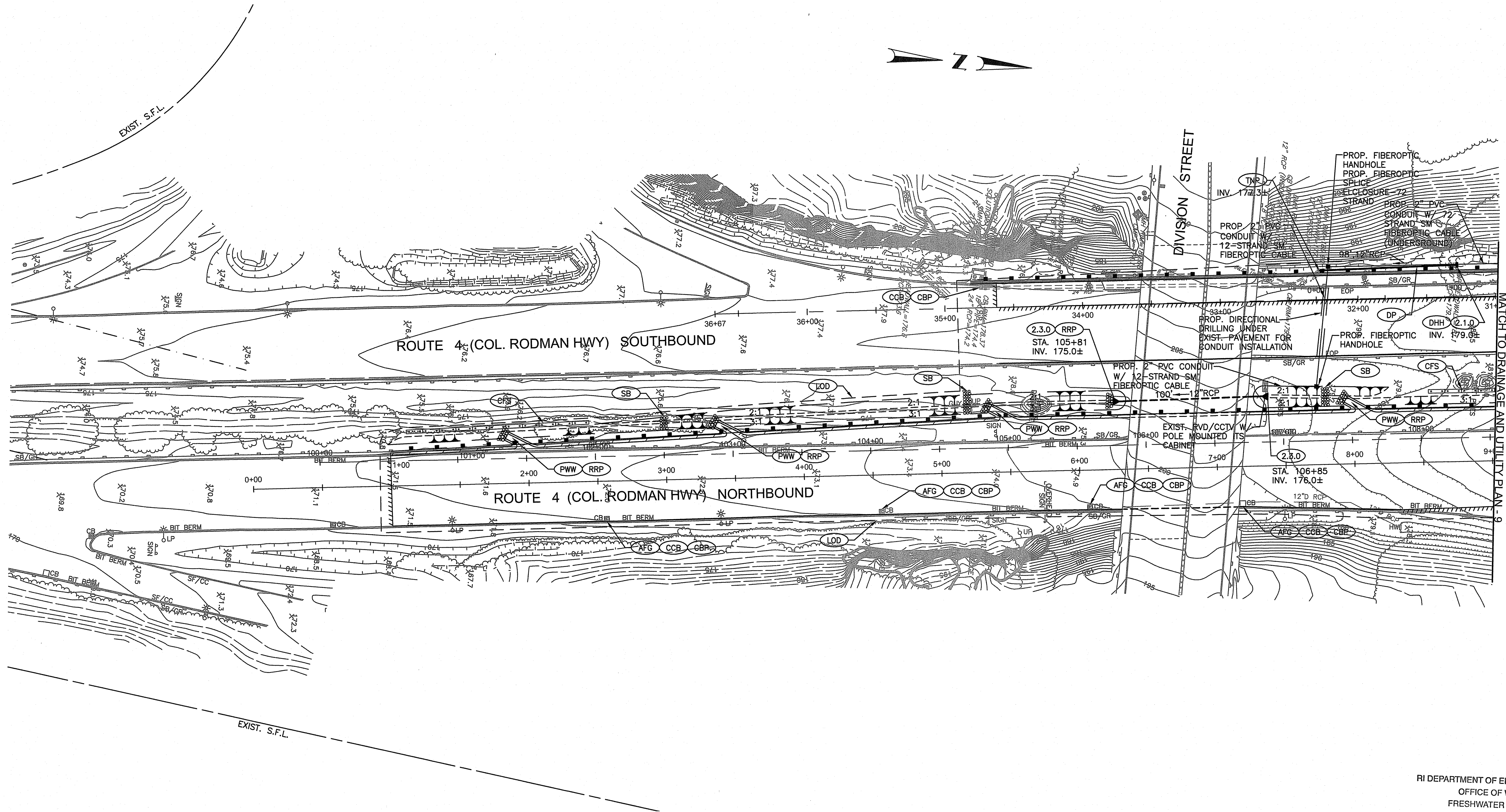
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 33  
OF: 80

SCALE: 1"=40'					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	10/1/24	BSL			

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
DRAINAGE AND UTILITY PLAN - 9

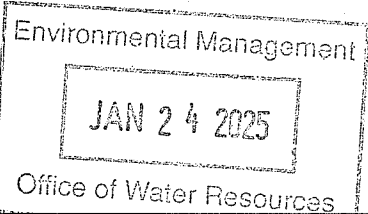


RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	34	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature: D. Senesch*



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

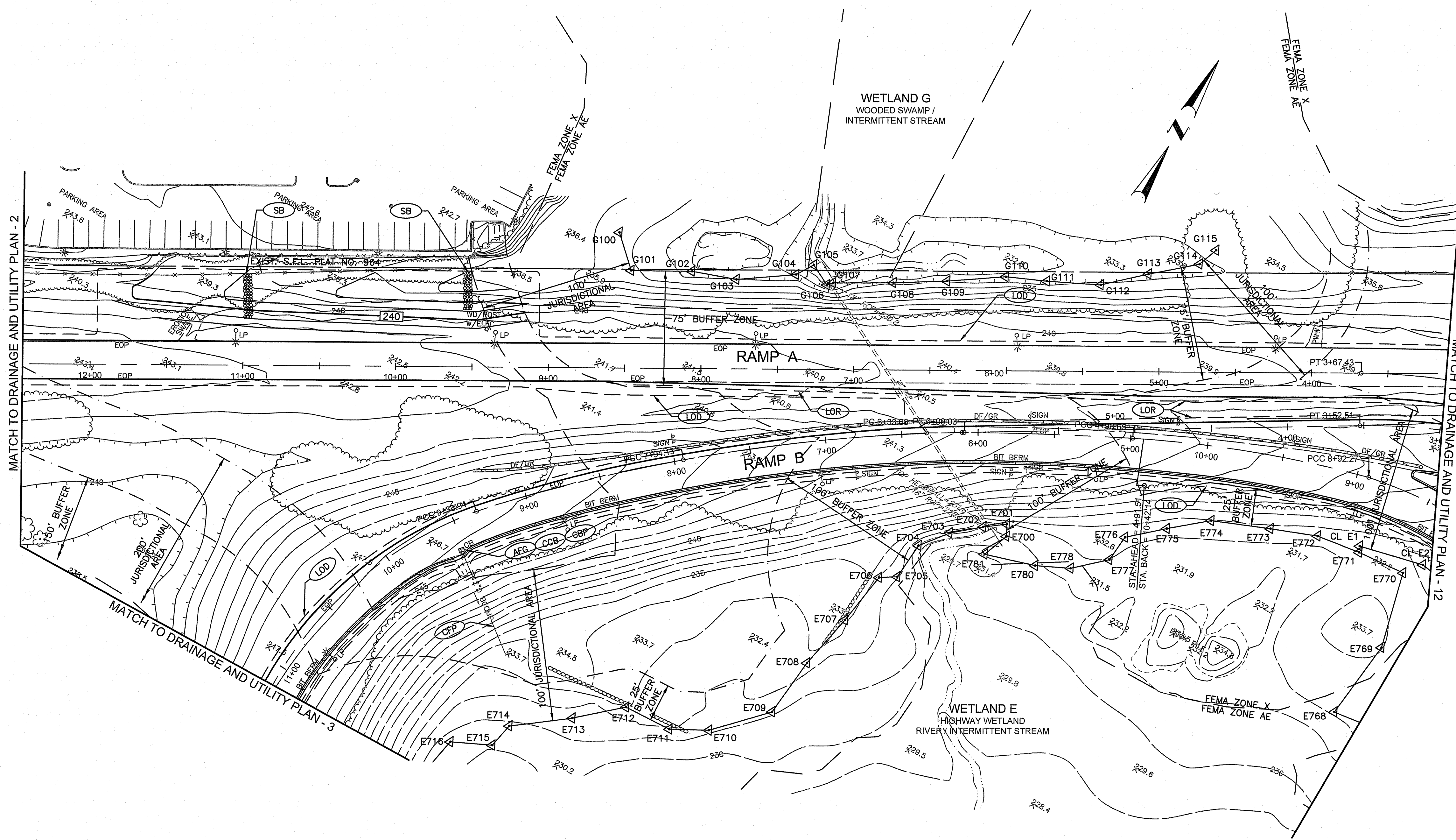
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 34  
OF: 80

REVISIONS					
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
DRAINAGE AND UTILITY PLAN - 10

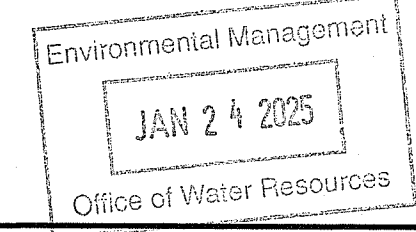


RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	35	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature*



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

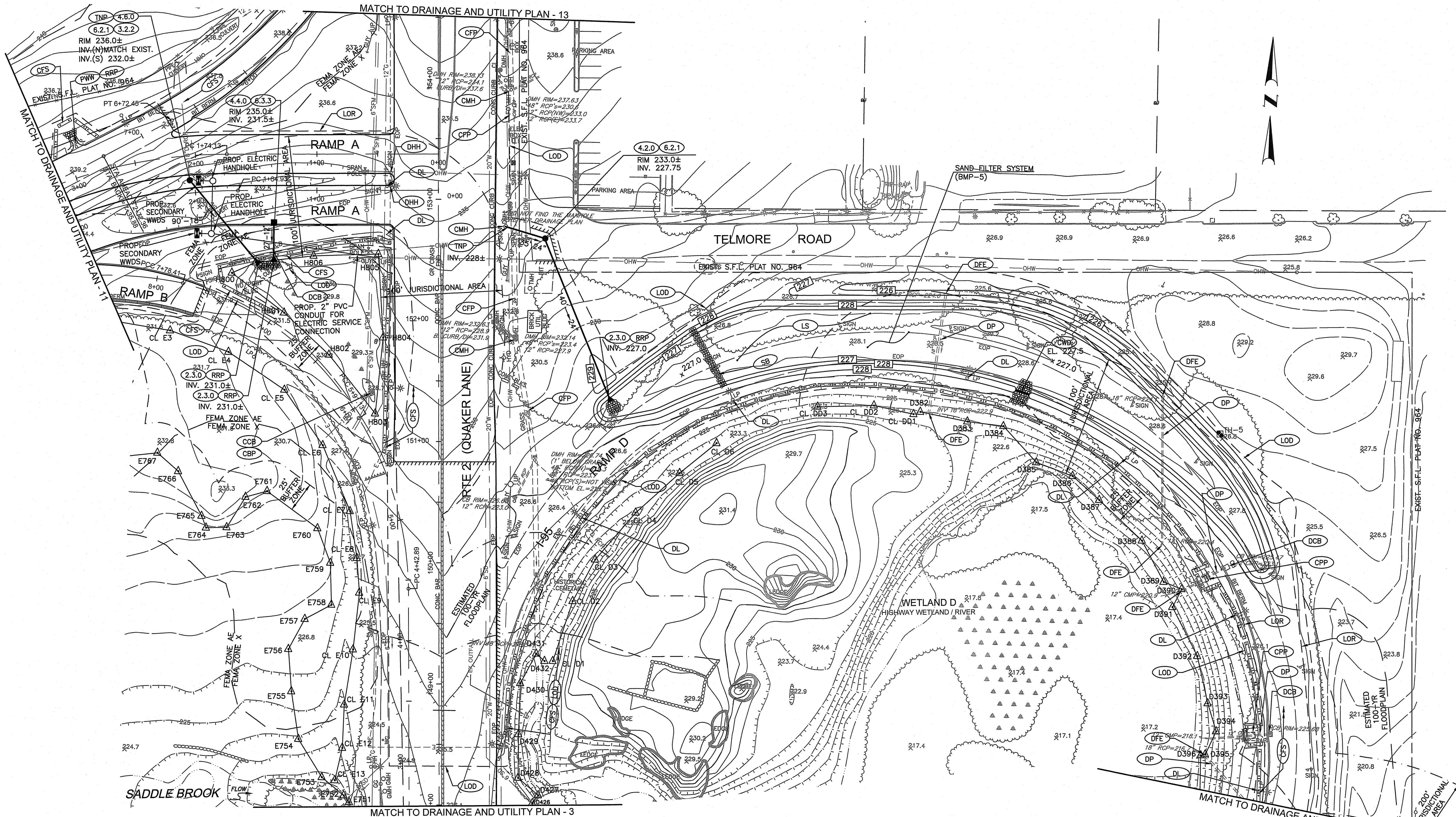
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 35  
OF: 80

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
DRAINAGE AND UTILITY PLAN - 11



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	36	80



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

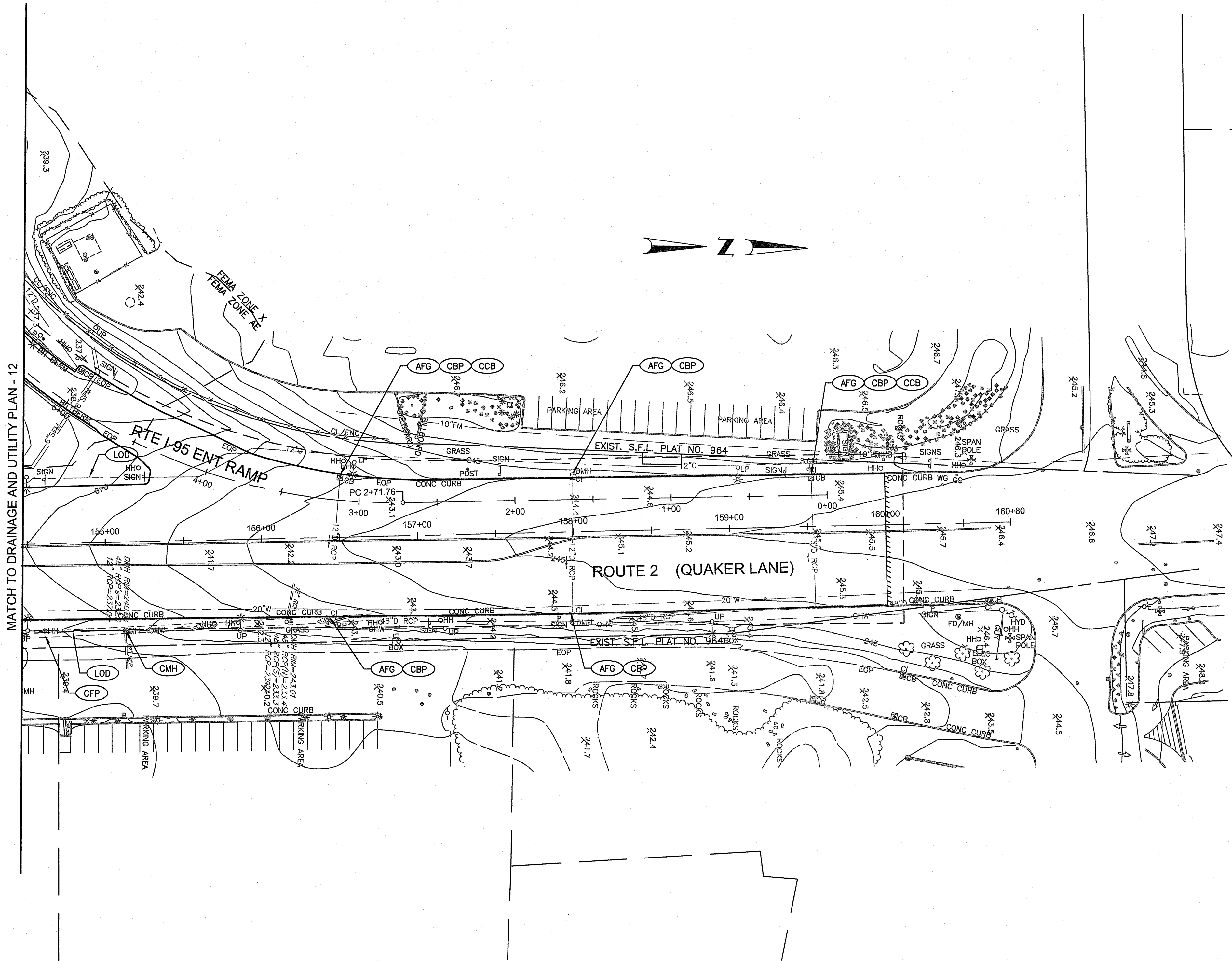
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 36  
OF: 80

REVISIONS					
NO.	DATE	BY	NO.	DATE	BY

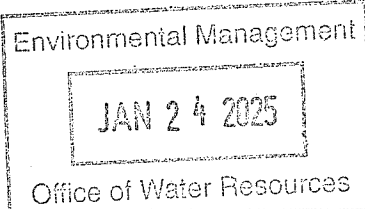
RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
DRAINAGE AND UTILITY PLAN - 12



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	37	80

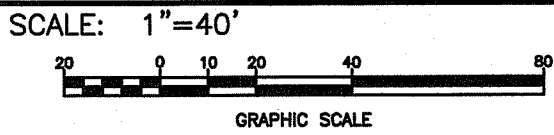


RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Christopher D. Wenzel*



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 37  
OF: 80

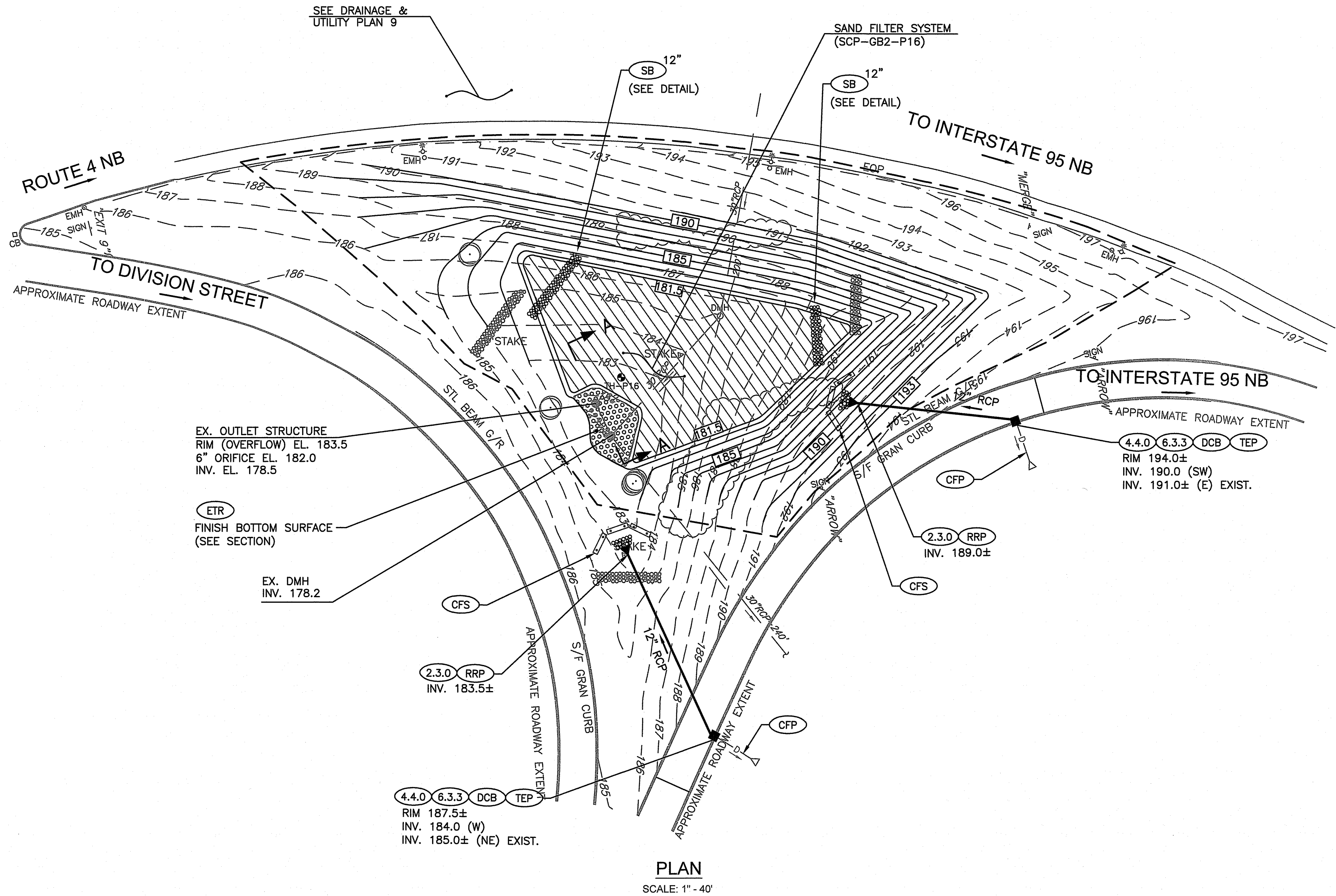


REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
DRAINAGE AND UTILITY PLAN - 13

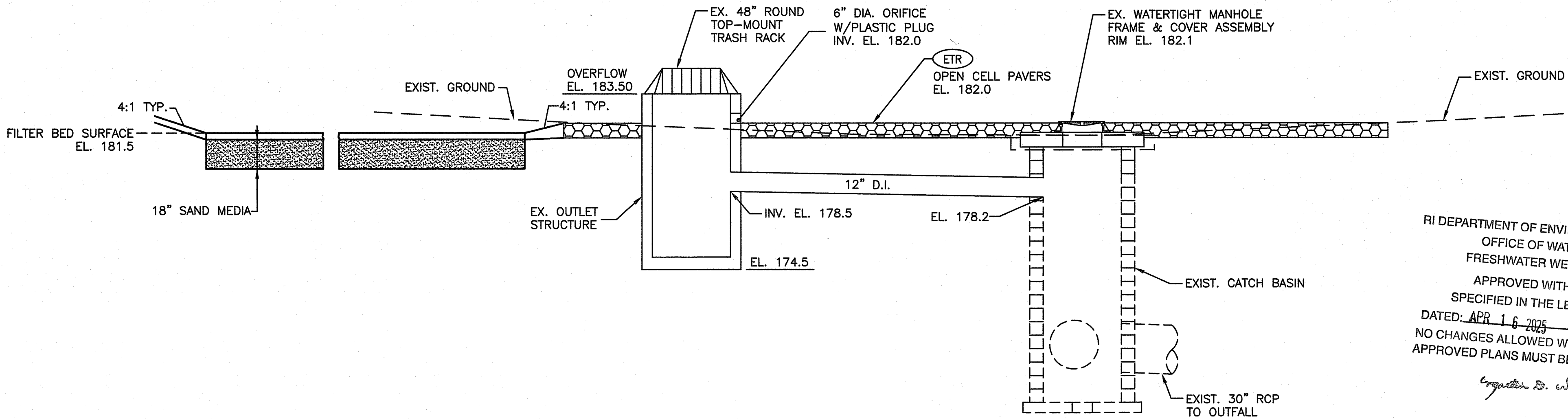


RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	38	80



NOTE:  
THE CONTRACTOR SHALL CONFIRM EXISTING DRAINAGE STRUCTURE  
LOCATIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF  
CONSTRUCTION ACTIVITIES. ANY DISCREPANCIES SHALL BE  
BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

STU SCP-GB2-P16		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQv	180.18'	-
1 YR	180.31'	-
2 YR	180.72'	-
10 YR	181.72'	0.22
25 YR	182.23'	0.73
100 YR	183.16'	1.66



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management  
JAN 24 2025  
Office of Water Resources



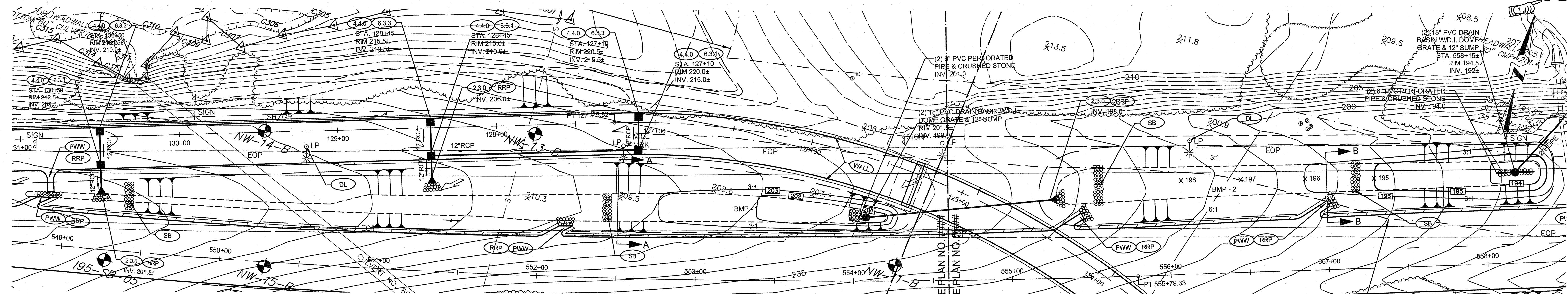
RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 38  
OF: 80

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

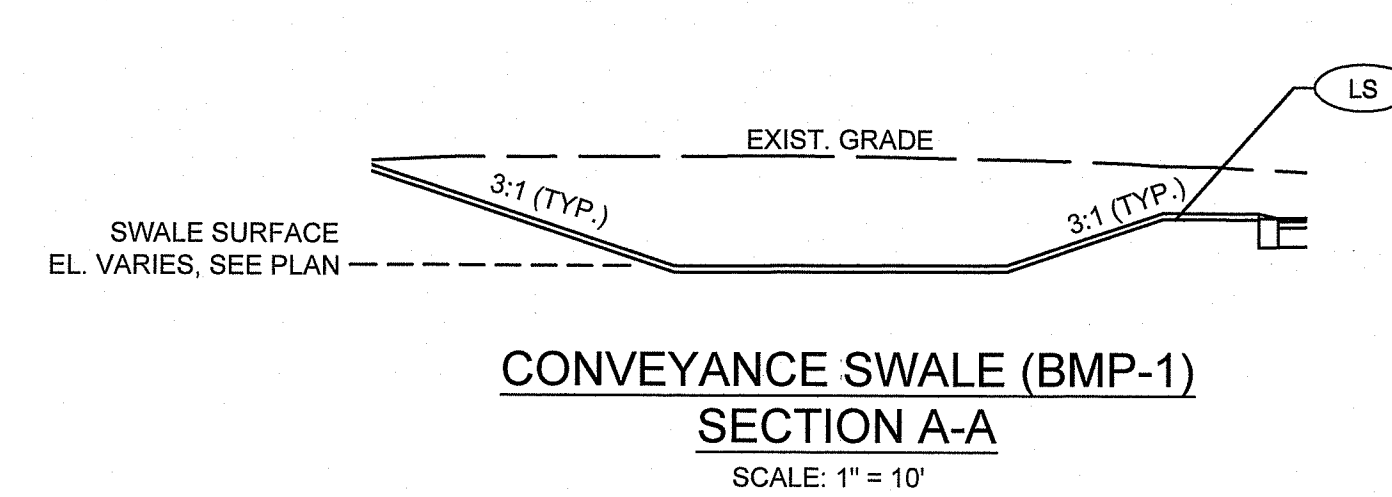
RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND  
DRAINAGE AND UTILITY PLAN - 14





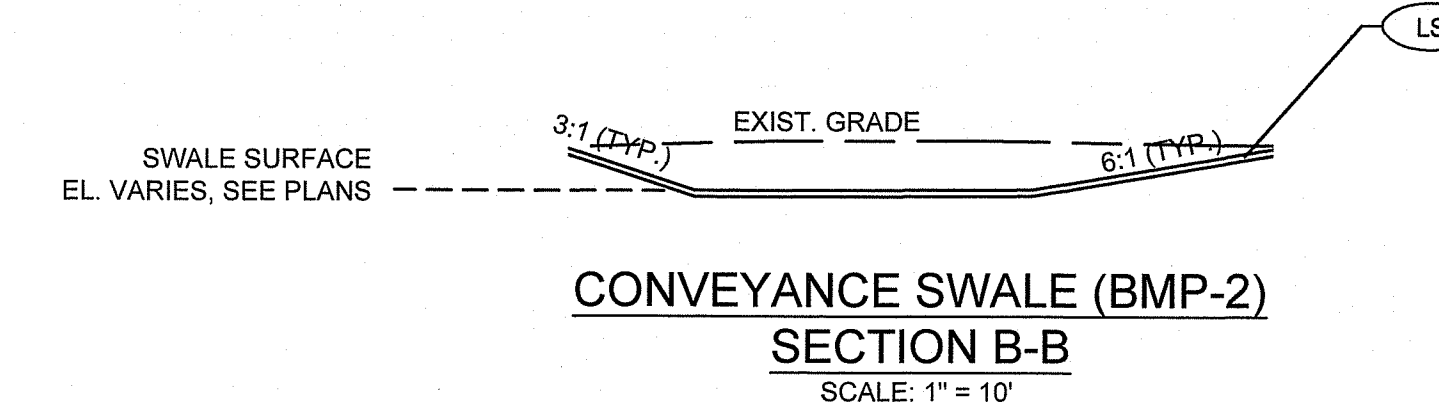
### CONVEYANCE SWALE SYSTEM (BMP-1 & BMP-2)

SCALE: 1" = 30'



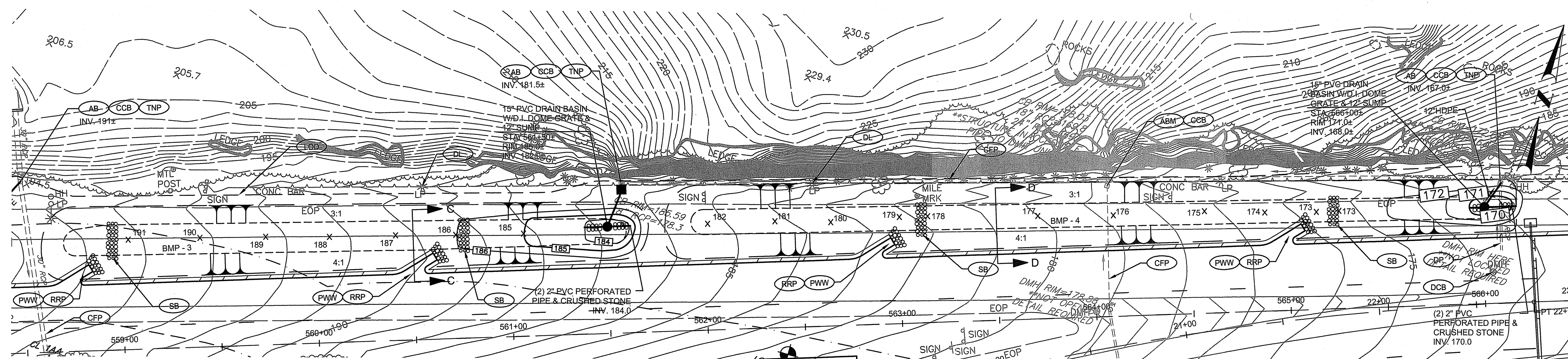
CONVEYANCE SWALE (BMP-1)  
SECTION A-A  
SCALE: 1" = 10'

BMP-1		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQv	201.58'	0.58
1 YR	201.68'	0.68
2 YR	201.74'	0.74
10 YR	201.87'	0.87
25 YR	201.98'	0.98
100 YR	202.38'	1.38



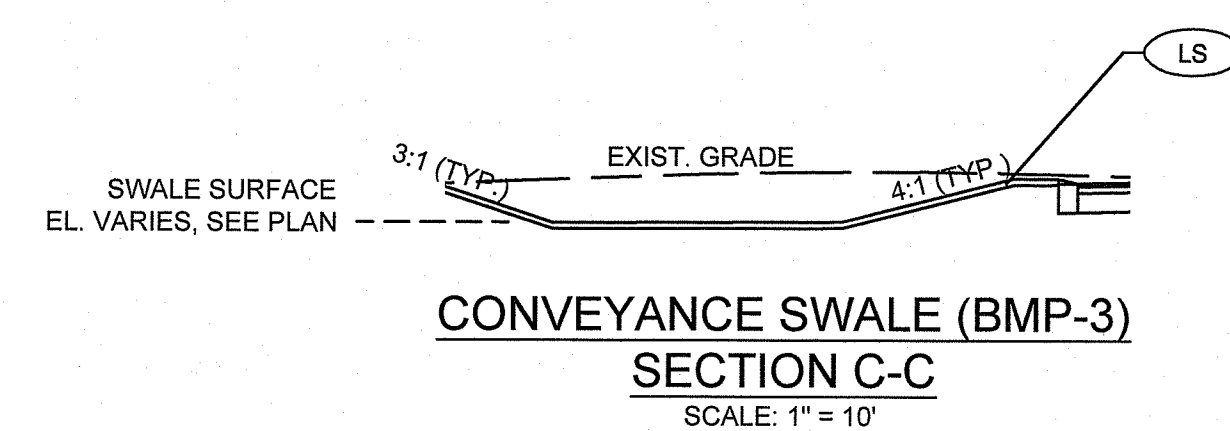
CONVEYANCE SWALE (BMP-2)  
SECTION B-B  
SCALE: 1" = 10'

BMP - 2		
STORM	PEAK EL.	PONDING DEPTH (F')
WQv	194.59'	0.59
1 YR	194.68'	0.68
2 YR	194.74'	0.74
10 YR	194.89'	0.89
25 YR	195.01'	1.01
100 YR	195.59'	1.59



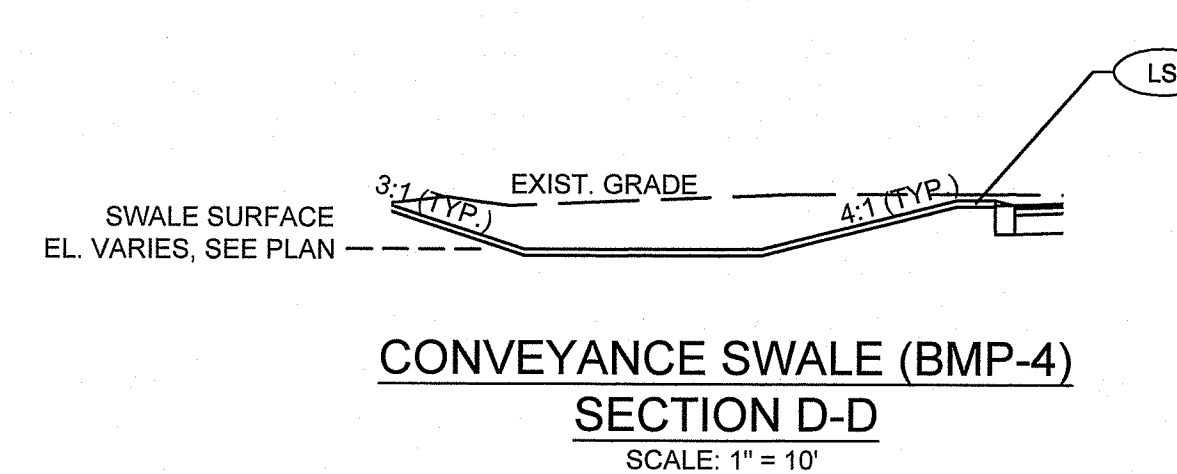
### CONVEYANCE SWALE SYSTEM (BMP-3 & BMP-4)

SCALE: 1" = 30'



CONVEYANCE SWALE (BMP-3)  
SECTION C-C  
SCALE: 1" = 10'

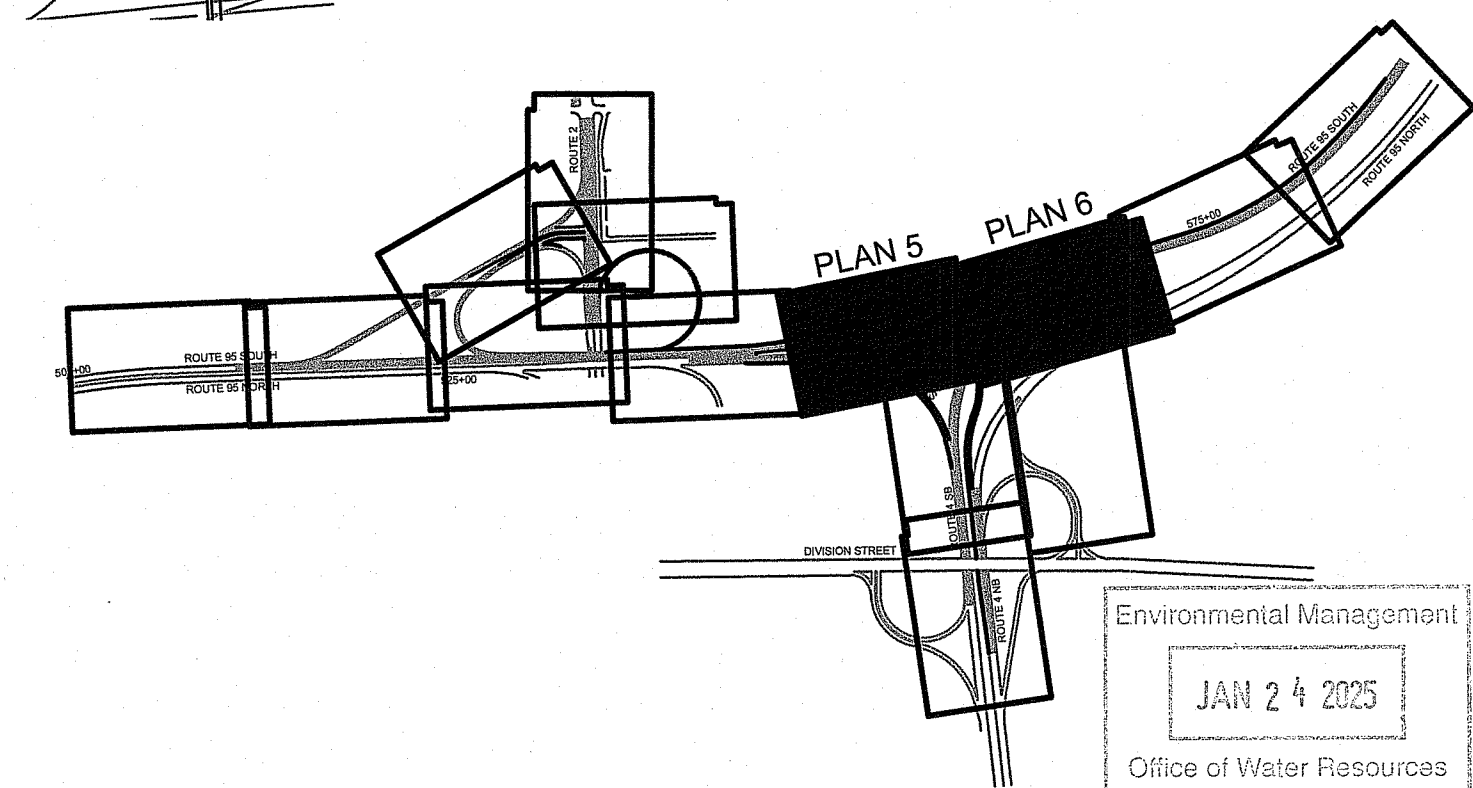
BMP-3		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQv	185.03'	1.03
1 YR	185.00'	1.00
2 YR	185.06'	1.06
10 YR	185.18'	1.16
25 YR	185.25'	1.25
100 YR	185.38'	1.38



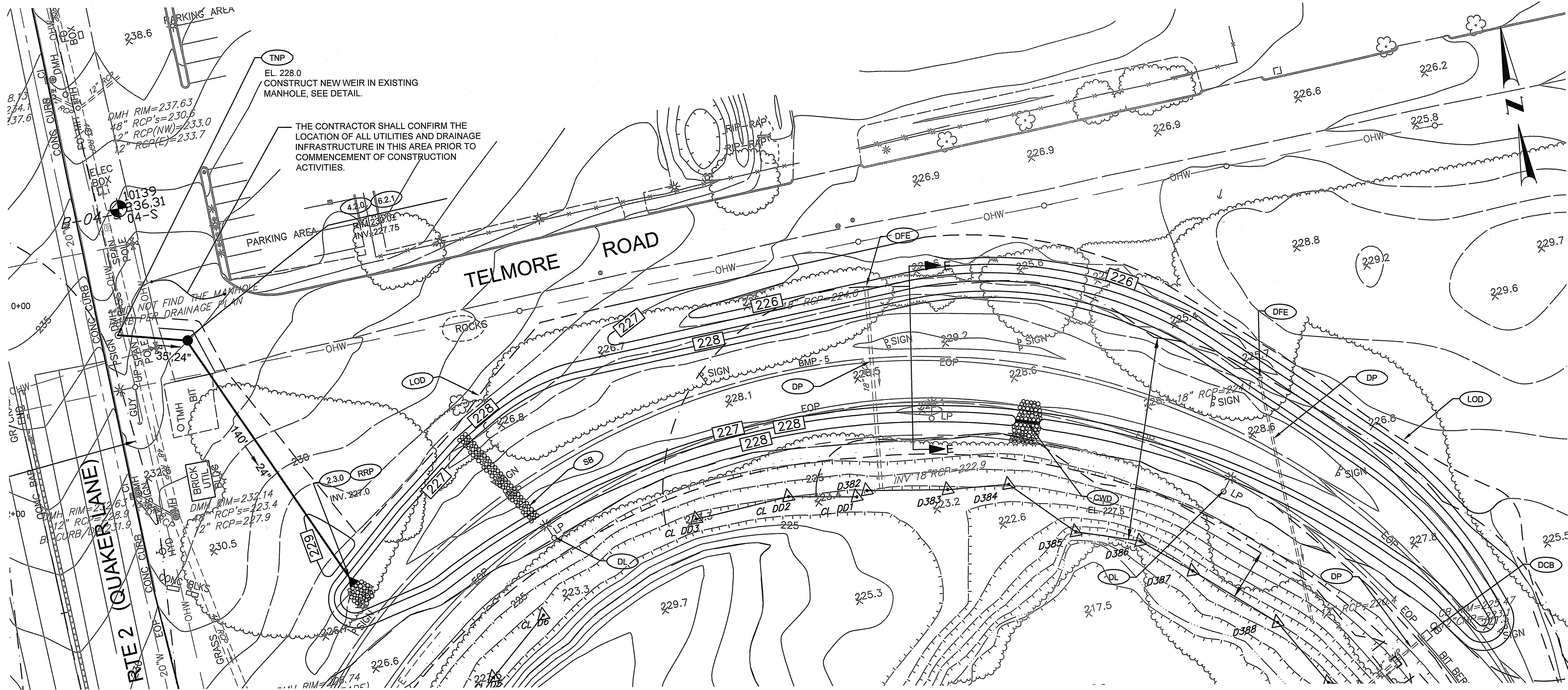
CONVEYANCE SWALE (BMP-4)  
SECTION D-D  
SCALE: 1" = 10'

BMP - 4		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQv	171.04'	1.04
1 YR	171.02'	1.02
2 YR	171.07'	1.07
10 YR	171.19'	1.19
25 YR	171.28'	1.28
100 YR	171.44'	1.44

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0245  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLACES MUST BE AT CONSTRUCTION SITE  
*Angela D. Wernick*



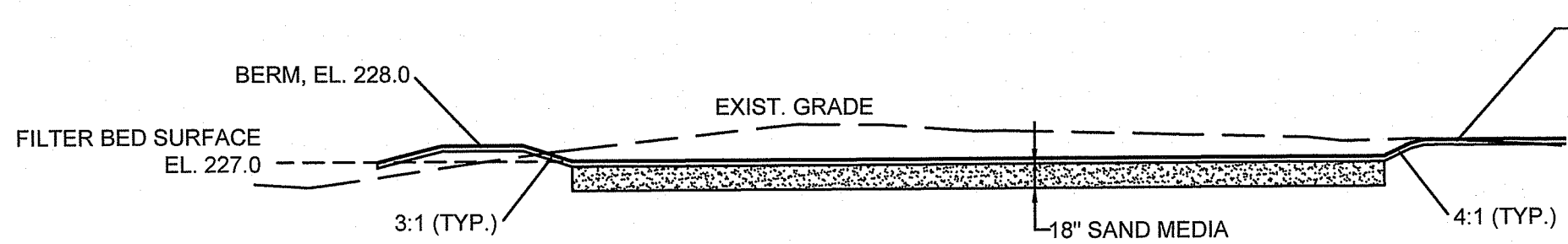




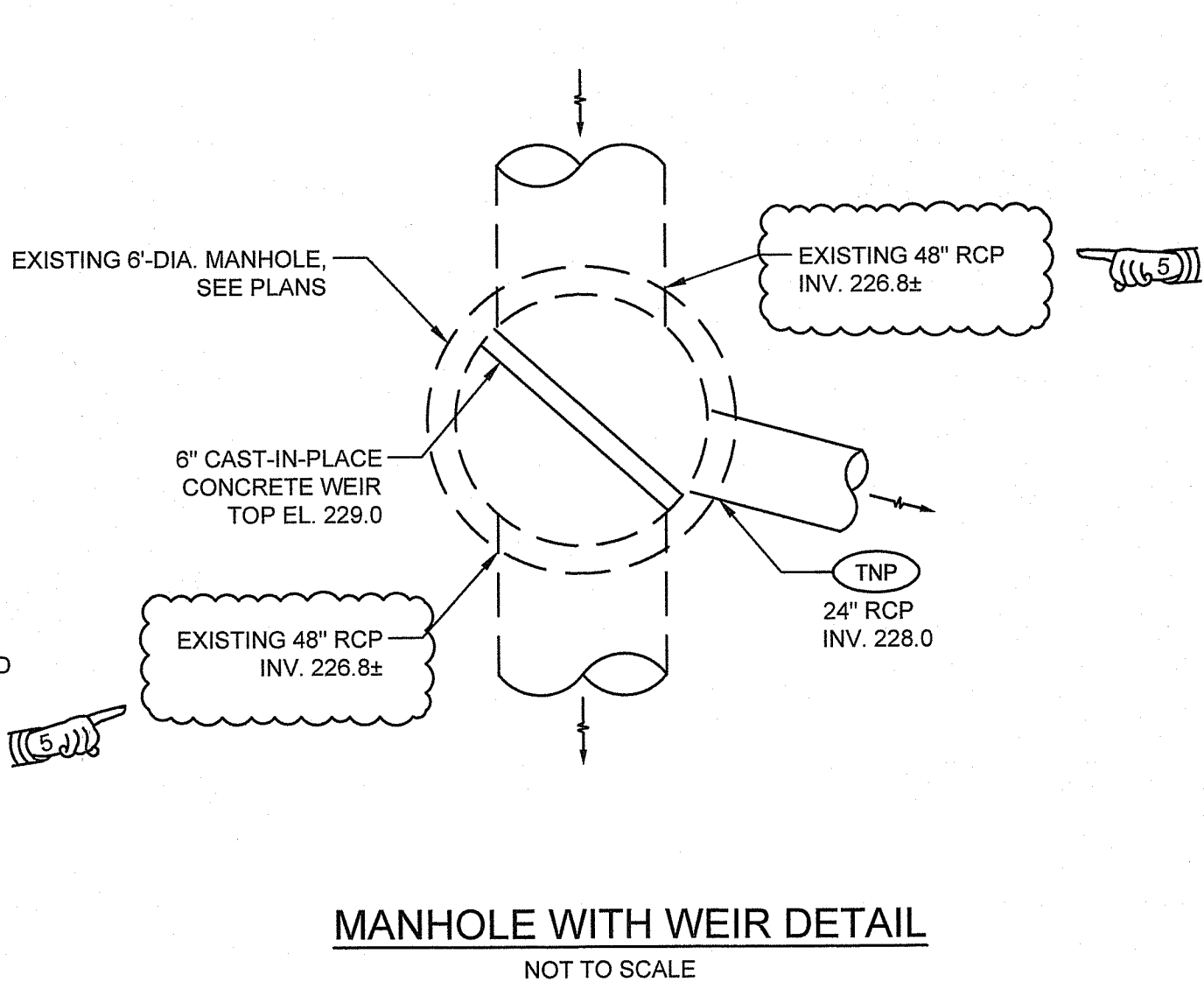
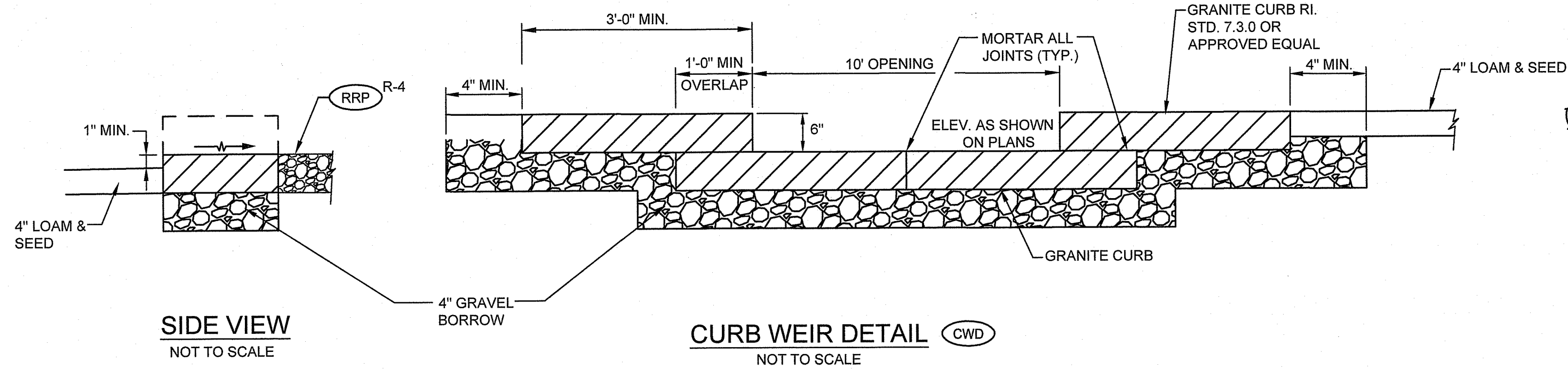
SAND FILTER SYSTEM (BMP-5)

SCALE: 1" = 30'

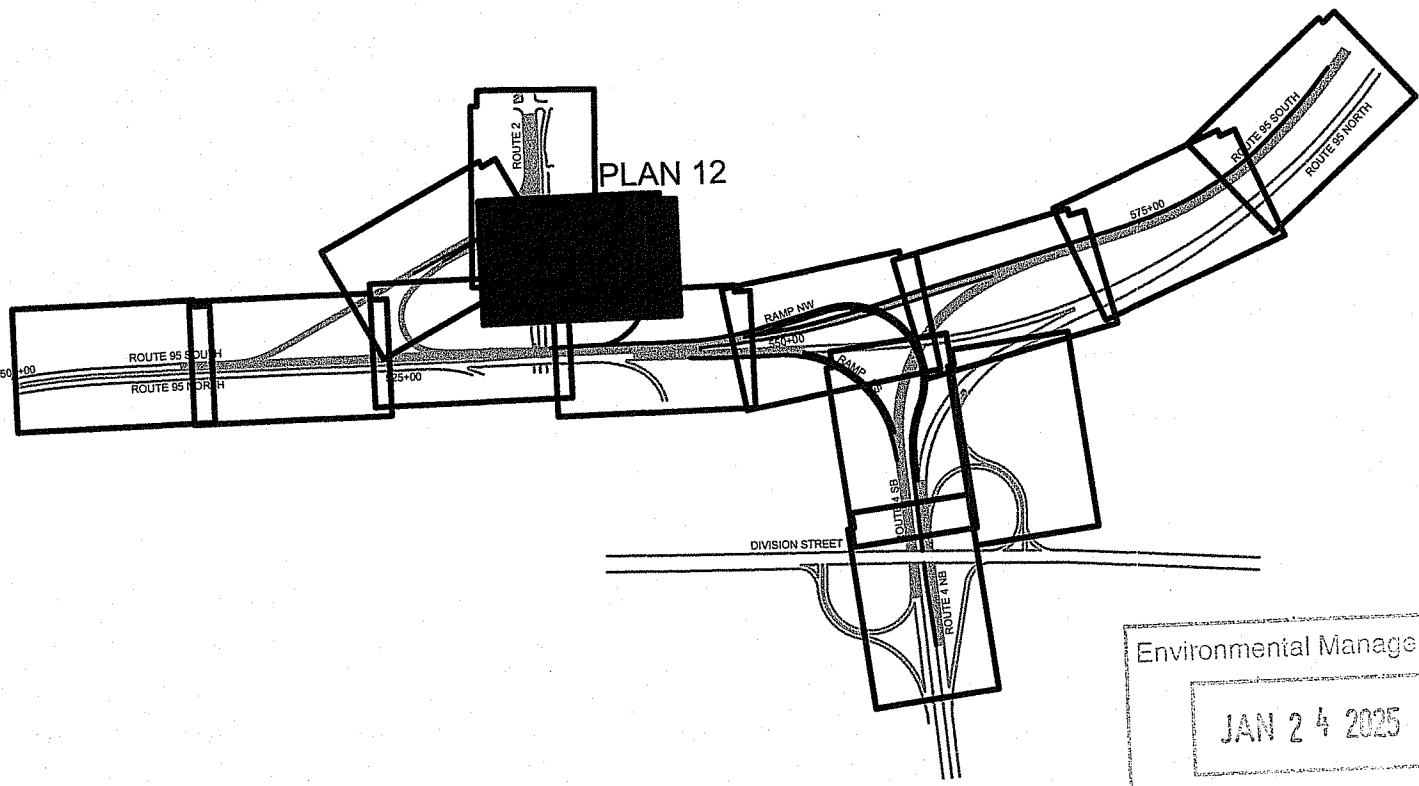
BMP - 5		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQv	227.01'	0.01
1 YR	227.58'	0.58
2 YR	227.66'	0.66
10 YR	227.81'	0.81
25 YR	227.90'	0.90
100 YR	227.97'	0.97



SAND FILTER SYSTEM (BMP-5) SECTION E-E  
SCALE: 1" = 10'



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Gregory D. Wenzel*



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

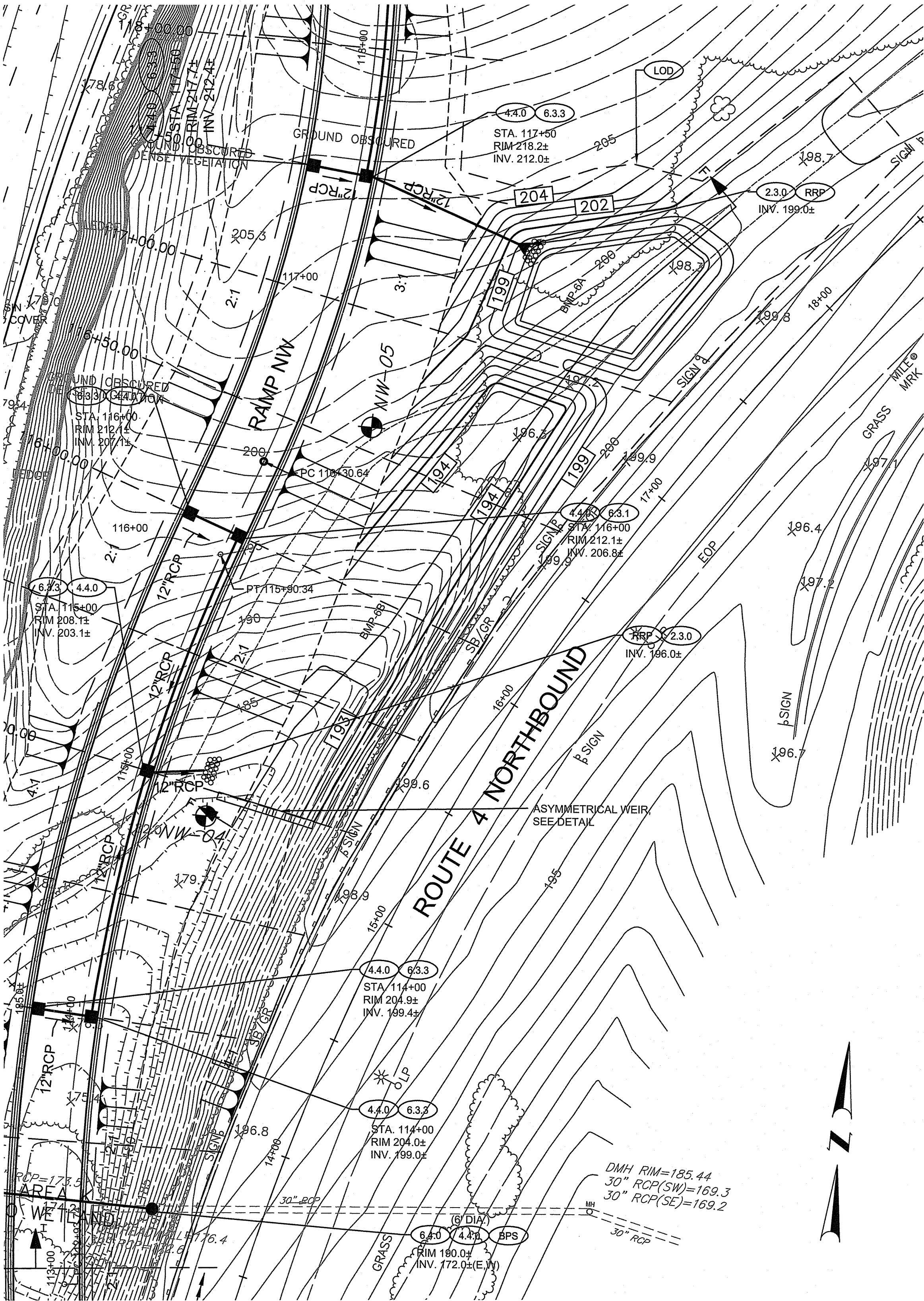
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 40  
OF: 80

AS SHOWN					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
5	9/19/24	KMN			

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

DRAINAGE DETAILS - 2

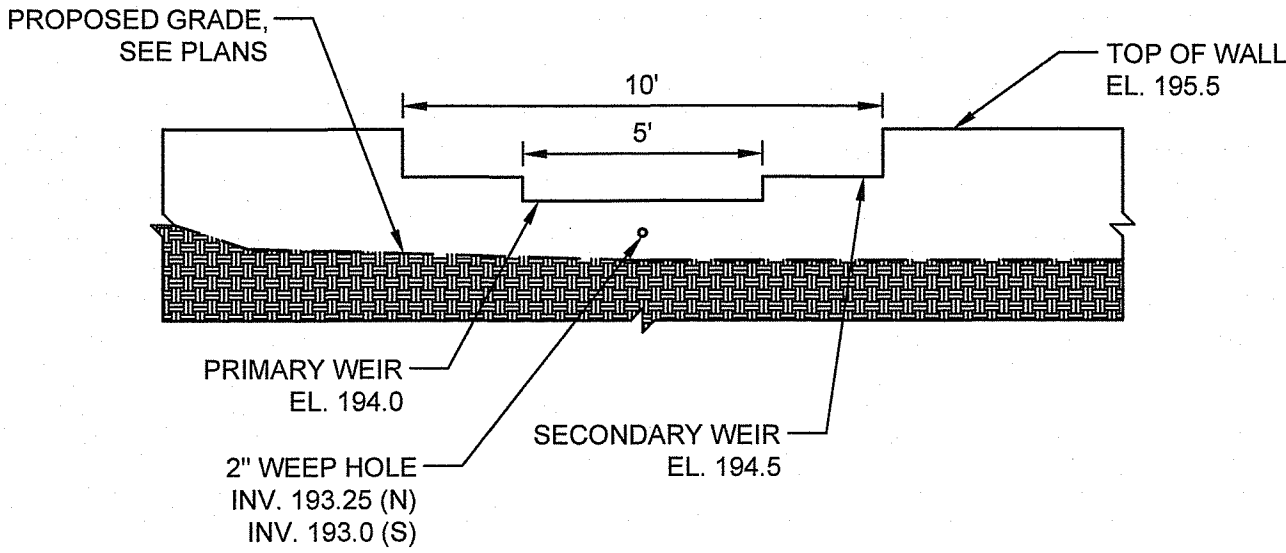




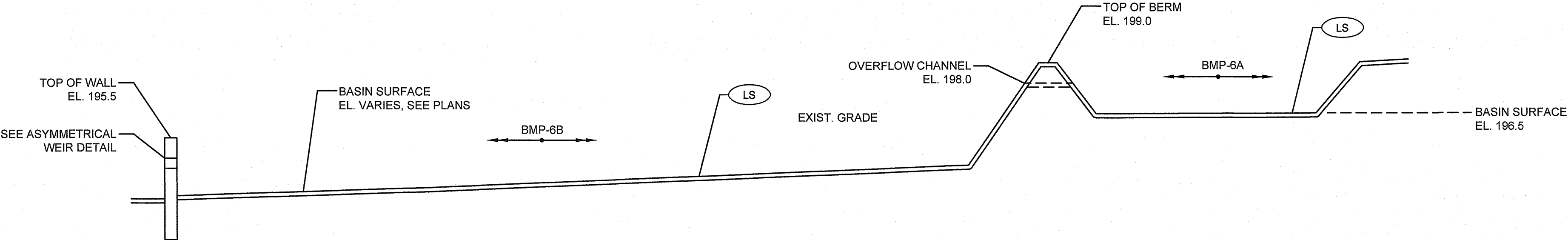
STORMWATER BASIN SYSTEM  
(BMP-6A & BMP-6B)  
SCALE: 1" = 30'

BMP - 6A		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQV	196.93'	0.43
1 YR	197.50'	1.00
2 YR	197.70'	1.20
10 YR	198.02'	1.52
25 YR	198.08'	1.58
100 YR	198.25'	1.75

BMP - 6B		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQV	193.32'	0.32
1 YR	193.53'	0.53
2 YR	193.62'	0.62
10 YR	193.83'	0.83
25 YR	194.07'	1.07
100 YR	194.30'	1.30



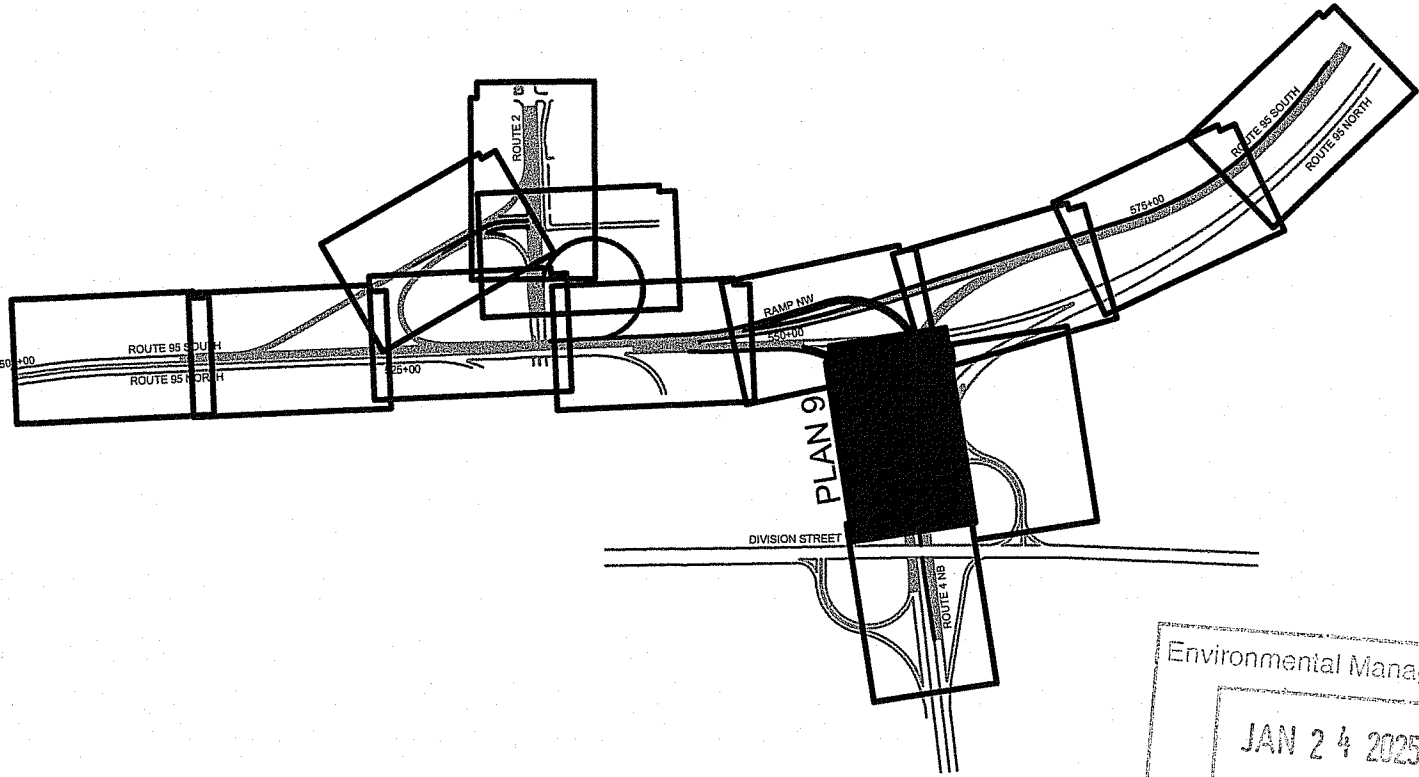
ASYMMETRICAL WEIR DETAIL  
SCALE: 1" = 4'



STORMWATER BASIN PROFILE (BMP-6A & BMP-6B)  
SECTION F-F  
HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0345  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Jonathan D. Senechal*



Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

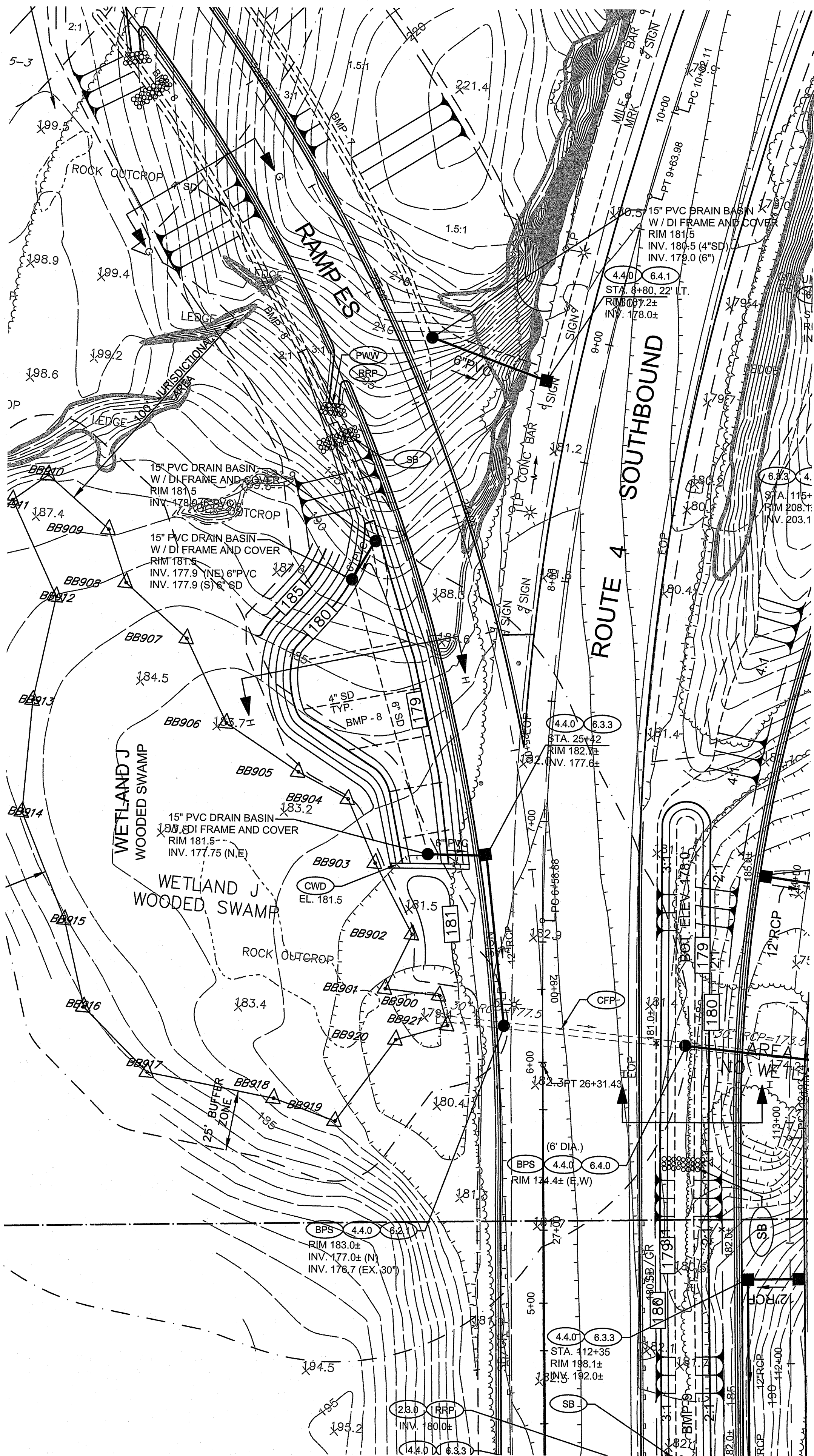
DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 41  
OF: 80

AS SHOWN					
GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

DRAINAGE DETAILS - 3





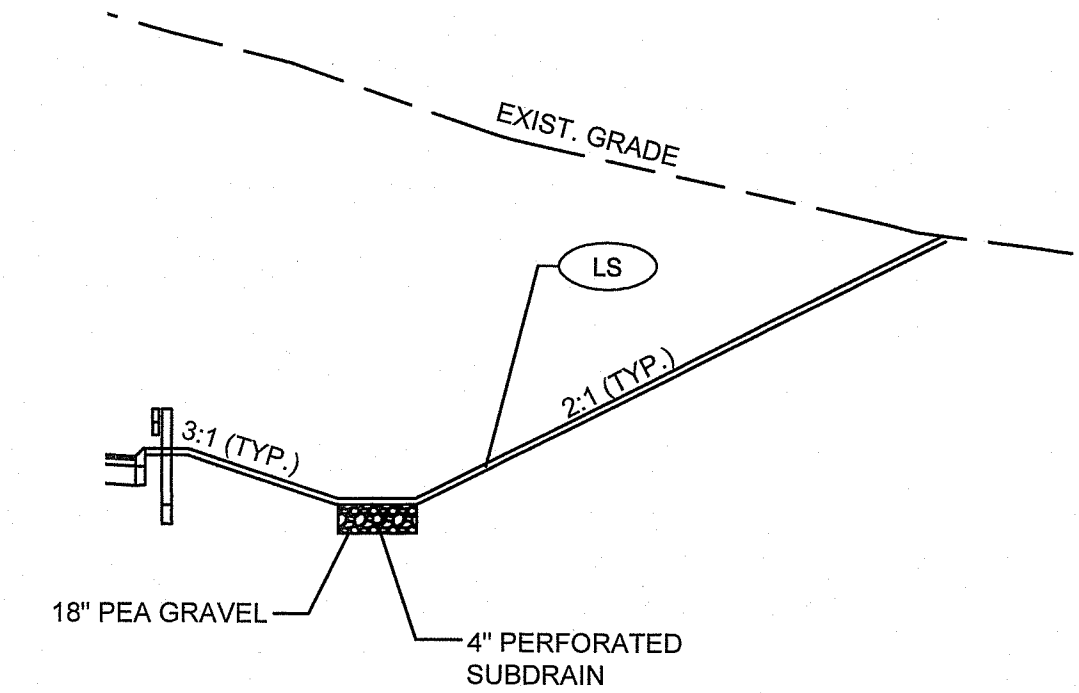
CONVEYANCE SWALE SYSTEMS & STORMWATER BASIN  
(BMP - 7, BMP - 8, & BMP-9)

SCALE: 1" = 30'

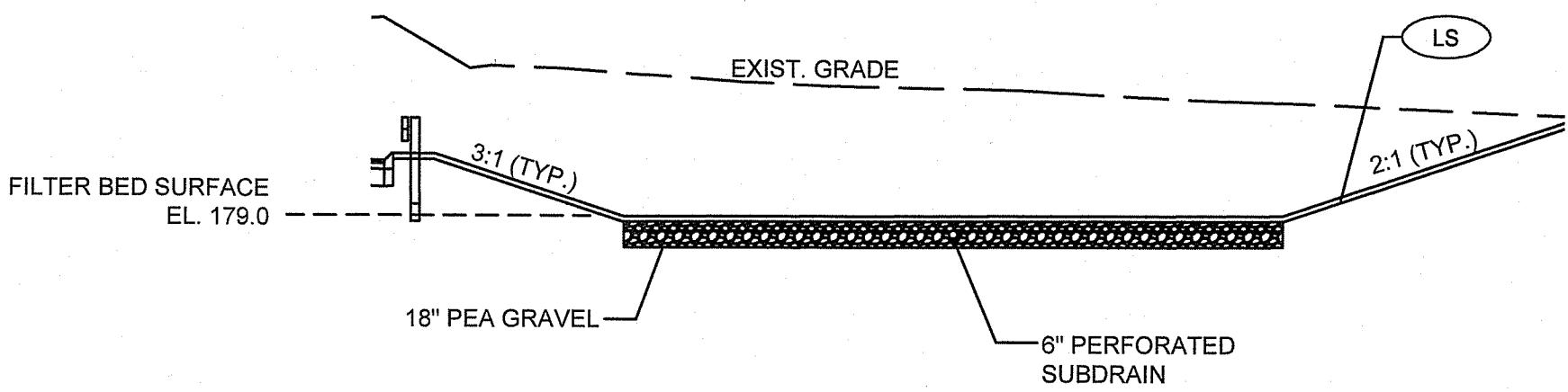
BMP - 7		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQv	181.15'	--
1 YR	180.54'	--
2 YR	180.61'	--
10 YR	181.54'	0.04
25 YR	181.73'	0.23
100 YR	182.16'	0.66

BMP - 8		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQv	178.05'	--
1 YR	177.87'	--
2 YR	177.99'	--
10 YR	178.51'	--
25 YR	179.11'	0.11
100 YR	179.75'	0.75

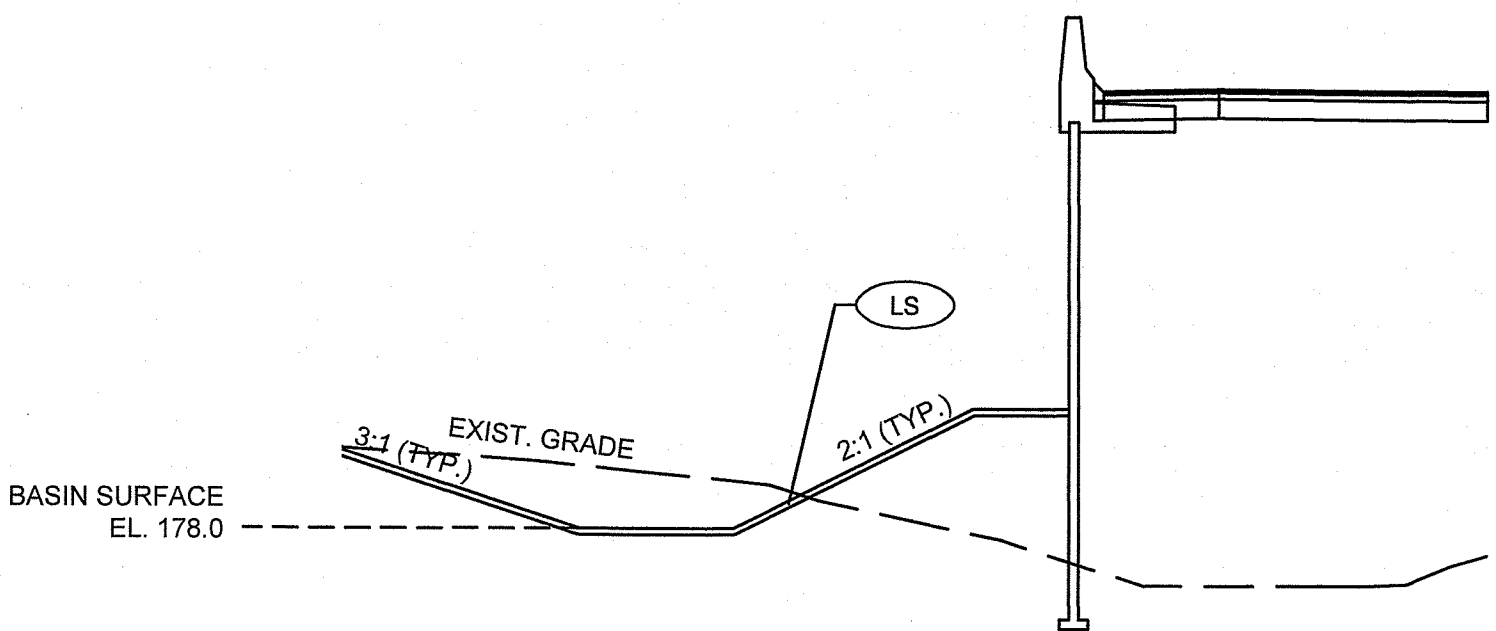
BMP - 9		
STORM	PEAK EL.	PONDING DEPTH (FT)
WQv	178.24'	0.24
1 YR	178.12'	0.12
2 YR	178.25'	0.25
10 YR	178.52'	0.52
25 YR	178.55'	0.55
100 YR	178.69'	0.69



TYPICAL CONVEYANCE SWALE (BMP-7 & BMP-8)  
SECTION G-G  
SCALE: 1" = 10'

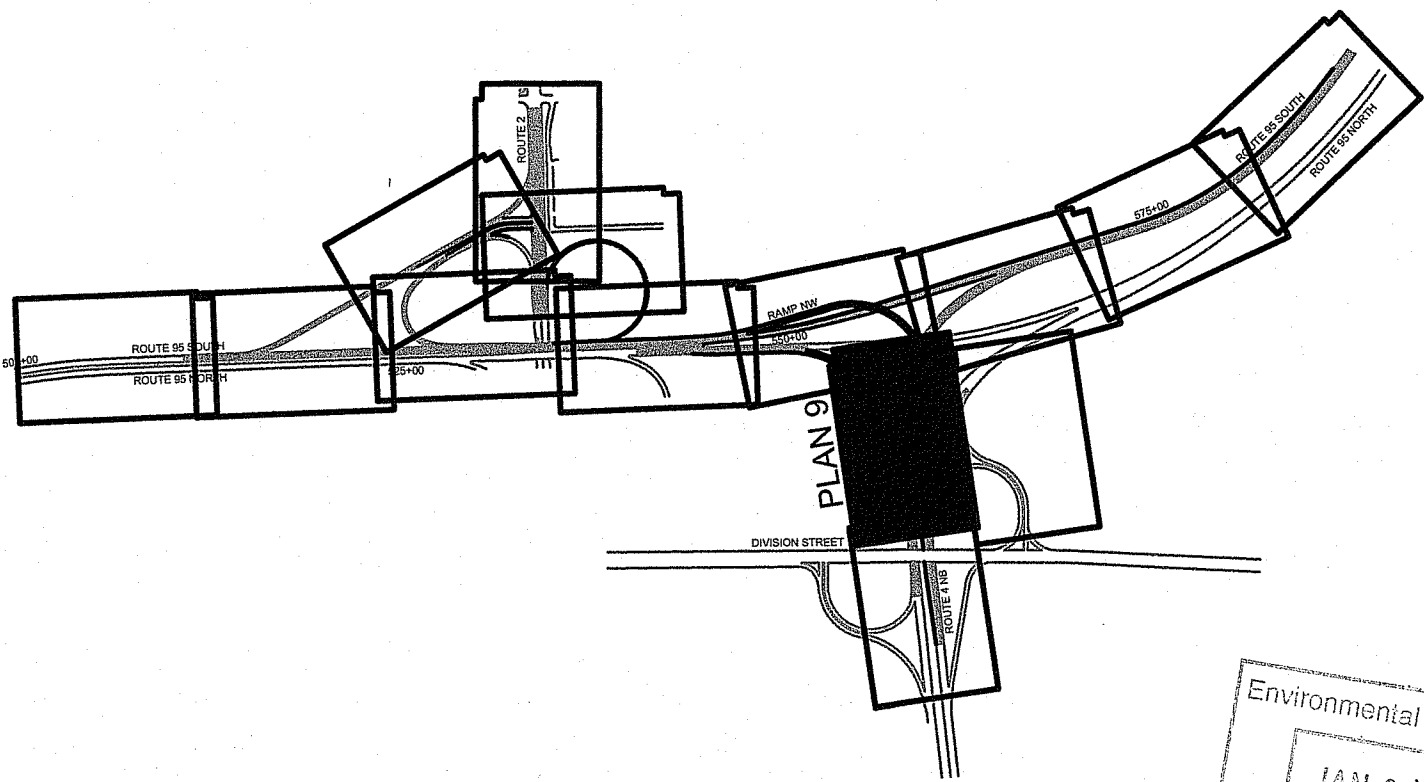


STORMWATER BASIN (BMP - 8)  
SECTION H-H  
SCALE: 1" = 10'



STORMWATER BASIN (BMP-9)  
SECTION I-I  
SCALE: 1" = 10'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: APR 16 2025 FILE #: 23-0445  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Christopher D. Wenzel*



Environmental Management  
JAN 24 2025  
Office of Water Resources



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 42  
OF: 80

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1

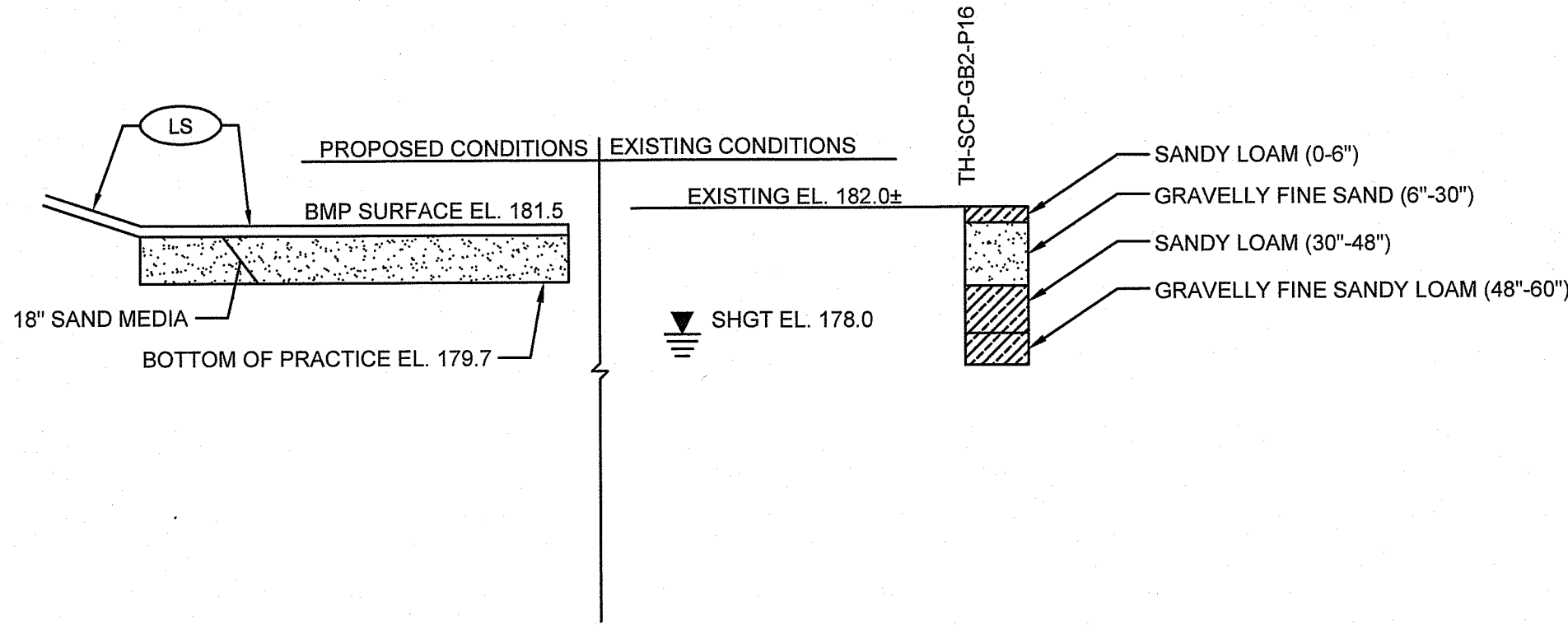
EAST GREENWICH, WEST WARWICK, WARWICK

RHODE ISLAND

DRAINAGE DETAILS - 4



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	43	80

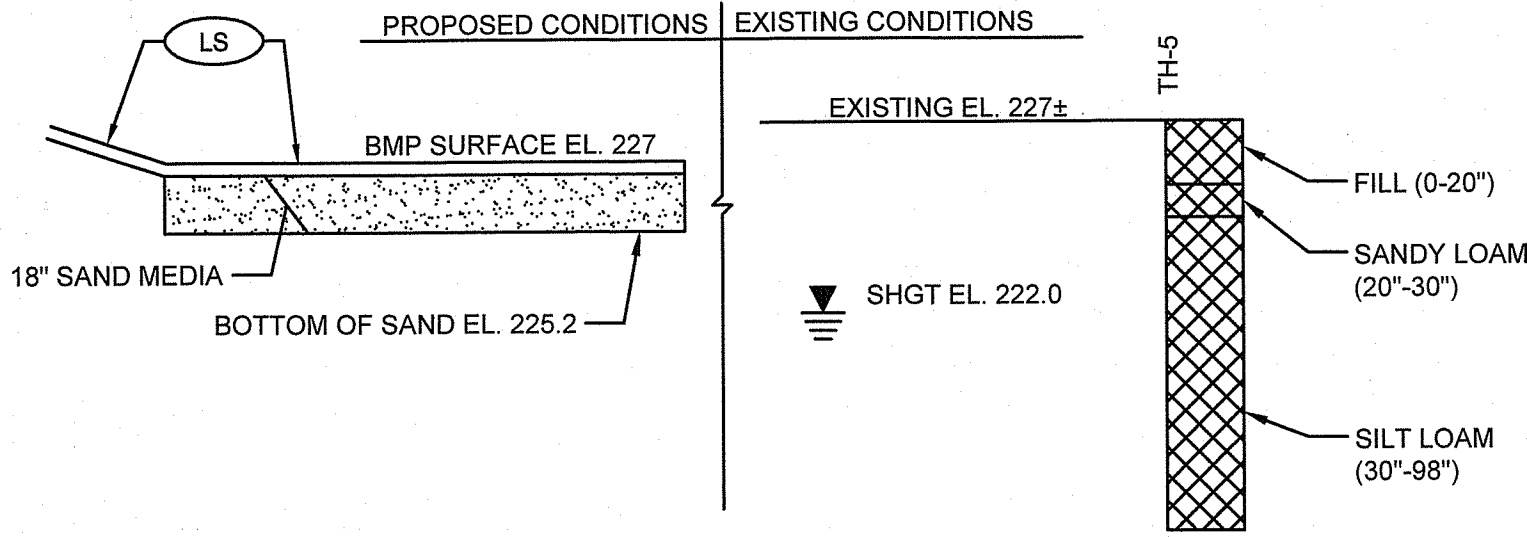


TEST HOLE SCP-GB2-P16

- NOTES:
- TEST HOLE COMPLETED BY APPLIED BIO-SYSTEMS, INC. ON APRIL 10, 2019.
  - EVIDENCE OF SHGT OBSERVED AT 48 INCHES BELOW GRADE.

SCP-GB2-P16 CONDITIONS

SCALE: 1" = 5'



TEST HOLE - 5

- NOTES:
- TEST HOLE COMPLETED BY GM2 ASSOCIATES, INC. ON MARCH 26, 2024
  - EVIDENCE OF SHGT OBSERVED AT 60-INCHES BELOW GRADE.

BMP-5 CONDITIONS

SCALE: 1" = 5'

STORMWATER MEDIA NOTES

- SEEDING WITHIN SWALES AND FILTER SYSTEMS SHALL BE RIDOT TYPE 4 NATIVE SEED MIX.
- SAND FILTER MEDIA SHALL CONSIST OF A MEDIUM SAND MEETING THE SPECIFICATIONS FOR AASHTO M-6 SAND.
- BIORETENTION SOIL MIXTURE SHALL BE 85-88% SAND; 8-12% SILT, 0-2% CLAY; 3-5% ORGANIC MATTER IN THE FORM OF LEAF COMPOST; OR AN APPROVED EQUAL.
- AT LEAST 45 DAYS PRIOR TO THE START OF THE STORMWATER FACILITY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT MEDIA INFORMATION THE ENGINEER FOR APPROVAL. NO TIME EXTENSIONS WILL BE GRANTED SHOULD THE PROPOSED MEDIA FAIL TO MEET THE REQUIREMENTS STATED HEREIN AND PER SPECIFICATION. THE INFORMATION SHALL INCLUDE, BUT NOT LIMITED TO: SOURCE, ADDRESS, MEDIA NAME, QUANTITY, GRADATION.
- MEDIA THAT FAILS TO MEET THE REQUIREMENTS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.

STORMWATER MAINTENANCE NOTES

- ALL MAINTENANCE (INCLUDING CLEANING) REQUIRED DURING CONSTRUCTION PHASE OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL INCLUDE:

MEASURES NEEDED TO ENSURE THE PROPER OPERATION OF CONSTRUCTED STORMWATER MANAGEMENT FACILITIES INCLUDING ALL NECESSARY INSPECTION, CLEANING AND REPAIRS TO FACILITY ELEMENTS INCLUDING ALL PIPING, STRUCTURES, FITTINGS AND OTHER APPURTENANCES.

INSPECTION OF ALL SLOPES, BERMS, AND OTHER CONTROL STRUCTURES FOR STRUCTURAL INTEGRITY/STABILITY AND EVIDENCE OF SOIL EROSION PROCESSES, AND MAINTENANCE OF THESE STRUCTURES IF NECESSARY. INSPECTIONS SHALL BE PERFORMED FOLLOWING ALL RAIN EVENTS OF ½ INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, AND IN ACCORDANCE WITH THE PROJECTS SOIL EROSION & SEDIMENT CONTROL (SESC) PLAN.

- UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE ENGINEER, ALL MAINTENANCE OF THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE OWNER OR THEIR APPOINTED AGENTS. IN ACCORDANCE WITH THE PROJECTS OPERATIONS & MAINTENANCE (OBM) PLAN.
- ALL GRASSED AREAS SHALL BE MOWED AT LEAST ONCE PER GROWING SYSTEM, WITH GRASS VEGETATION CUT TO A HEIGHT NO SHORTER THAN FOUR (4) INCHES.
- THE OWNER SHALL BE RESPONSIBLE FOR ALL REPAIRS, REPLACEMENTS, AND OTHER WORK NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF STORMWATER MANAGEMENT FACILITIES. ANY REQUIRED REPAIR AND/OR REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE PERFORMED PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM. IN THE EVENT OF A SIGNIFICANT LOSS IN INFILTRATION CAPACITY (BELOW THE ORIGINAL DESIGN CAPACITY) OF SYSTEMS (DUE TO CLOGGING, BLINDING, AND/OR OTHER ISSUES), THE PERTINENT SYSTEMS ELEMENTS SHALL BE REPAIRED OR REPLACED SO AS TO RE-ESTABLISH ORIGINAL DESIGN INFILTRATION RATES.

STORMWATER GENERAL NOTES

- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE CONTOURS AND ELEVATIONS IN THE STORMWATER MANAGEMENT AND CONVEYANCE AREAS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DISCREPANCIES.
- THE CONTRACTOR SHALL COMPLETE THE PROJECT WITHIN THE LIMIT OF DISTURBANCE AND SHALL MATCH TO GRADE ACCORDINGLY. THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE MAXIMUM EXTENT WHEN AND IF APPLICABLE TO PRESERVE THE AREAS VEGETATION.
- CARE SHALL BE TAKEN TO AVOID COMPACTION OF NATIVE SUBGRADE MATERIAL.
- CONSTRUCTED SLOPES MAY VARY TO SUIT CONDITIONS AS DIRECTED BY THE ENGINEER.
- IF CONSTRUCTION VEHICLES DRIVE OVER THE AREA, THE SOIL MUST BE SUITABLY AMENDED, TILLED, AND VEGETATED ONCE CONSTRUCTION IS COMPLETE TO RESTORE THE INFILTRATION CAPACITY OF THE SUBGRADE AS DIRECTED BY THE ENGINEER.
- ESTABLISH A DENSE VEGETATIVE COVER OR ADEQUATELY STABILIZED LANDSCAPE SURFACE ACROSS ANY UPGRADE AREAS DISTURBED BY CONSTRUCTION BEFORE RUNOFF CAN BE ACCEPTED INTO THE STORMWATER PRACTICE.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS

SPECIFIED IN THE LETTER OF APPROVAL

DATED: APR 16 2025 FILE #: 93-0845

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature*

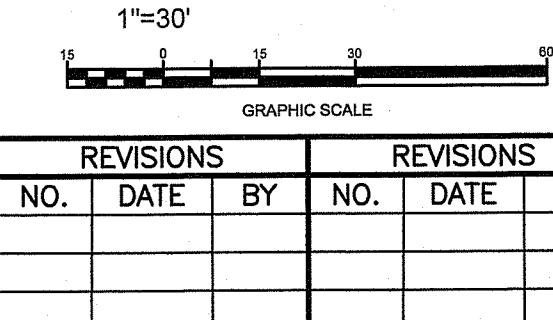
Environmental Management  
JAN 24 2025  
Office of Water Resources

GM2



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 43  
OF: 80

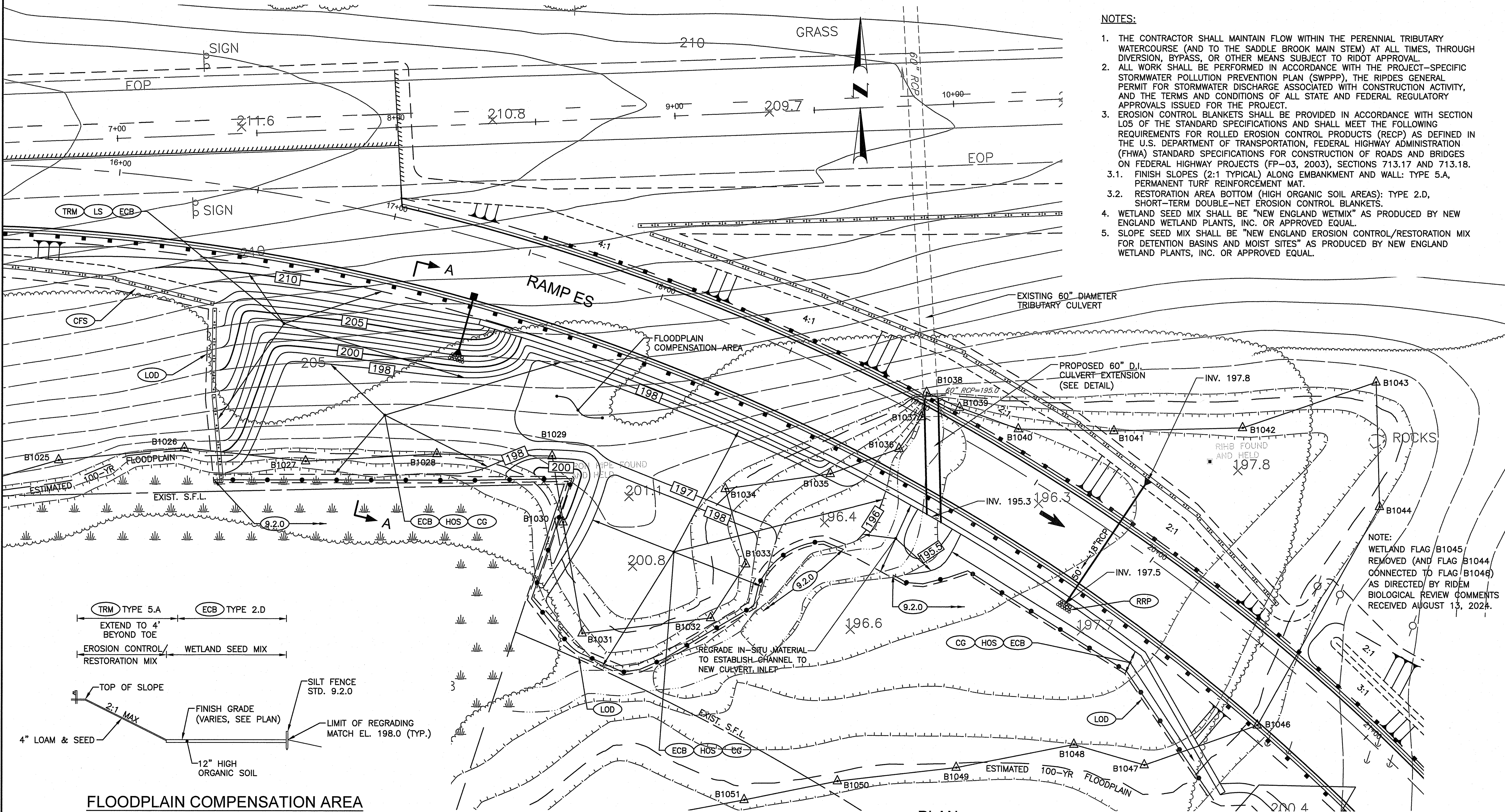


RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

DRAINAGE DETAILS - 5



RI CONTRACT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
2024-DB-020	2024	44	80



- NOTES:
1. THE CONTRACTOR SHALL MAINTAIN FLOW WITHIN THE PERENNIAL TRIBUTARY WATERCOURSE (AND TO THE SADDLE BROOK MAIN STEM) AT ALL TIMES, THROUGH DIVERSION, BYPASS, OR OTHER MEANS SUBJECT TO RIDOT APPROVAL.
  2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT-SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP), THE RIDOT GENERAL PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY, AND THE TERMS AND CONDITIONS OF ALL STATE AND FEDERAL REGULATORY APPROVALS ISSUED FOR THE PROJECT.
  3. EROSION CONTROL BLANKETS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 105 OF THE STANDARD SPECIFICATIONS AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR ROLLED EROSION CONTROL PRODUCTS (RECP) AS DEFINED IN THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION (FHWA) STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-03, 2003), SECTIONS 713.17 AND 713.18.
    - 3.1. FINISH SLOPES (2:1 TYPICAL) ALONG EMBANKMENT AND WALL: TYPE 5A, PERMANENT TURF REINFORCEMENT MAT.
    - 3.2. RESTORATION AREA BOTTOM (HIGH ORGANIC SOIL AREAS): TYPE 2.D, SHORT-TERM DOUBLE-NET EROSION CONTROL BLANKETS.
  4. WETLAND SEED MIX SHALL BE "NEW ENGLAND WETMIX" AS PRODUCED BY NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL.
  5. SLOPE SEED MIX SHALL BE "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES" AS PRODUCED BY NEW ENGLAND WETLAND PLANTS, INC. OR APPROVED EQUAL.

FLOODPLAIN COMPENSATION AREA NOTES:

1. PRIOR TO COMMENCEMENT OF ANY WORK ASSOCIATED WITH THE COMPENSATION AREA, THE CONTRACTOR SHALL SUBMIT TO RIDOT FOR REVIEW AND APPROVAL, A WORK PLAN AND STAGING PLAN THAT INCLUDES A CONSTRUCTION SCHEDULE AND AN OUTLINE OF CONSTRUCTION METHODOLOGIES FOR PERFORMING THE REQUIRED WORK.
2. A WETLAND SCIENTIST WILL BE ON-SITE TO MONITOR AND DIRECT CONSTRUCTION OF THE COMPENSATION AREA. AT LEAST 10 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE FOR A MEETING WITH THE WETLAND SCIENTIST AND ENGINEER TO REVIEW THE PLANNED WORK ACTIVITIES.
3. AS DIRECTED BY THE WETLAND SCIENTIST, A 12" DEEP LAYER OF WETLAND PLANTING SOIL/TOPSOIL SHALL BE PLACED ON UNEXCAVATED GRADE WHERE NEEDED TO SUPPORT PLANTING EFFORTS.
4. EQUIPMENT WILL NOT BE PERMITTED ON WETLAND SOILS TO PREVENT COMPACTION WITHIN THE COMPENSATION AREA.
5. ALL WETLAND AREAS WITHIN THE LIMITS OF WORK TEMPORARILY DISTURBED FOR CONSTRUCTION OF THE COMPENSATION AREA SHALL BE STABILIZED AND PROVIDED WITH WETLAND SEED MIX.

PLANTING NOTES:

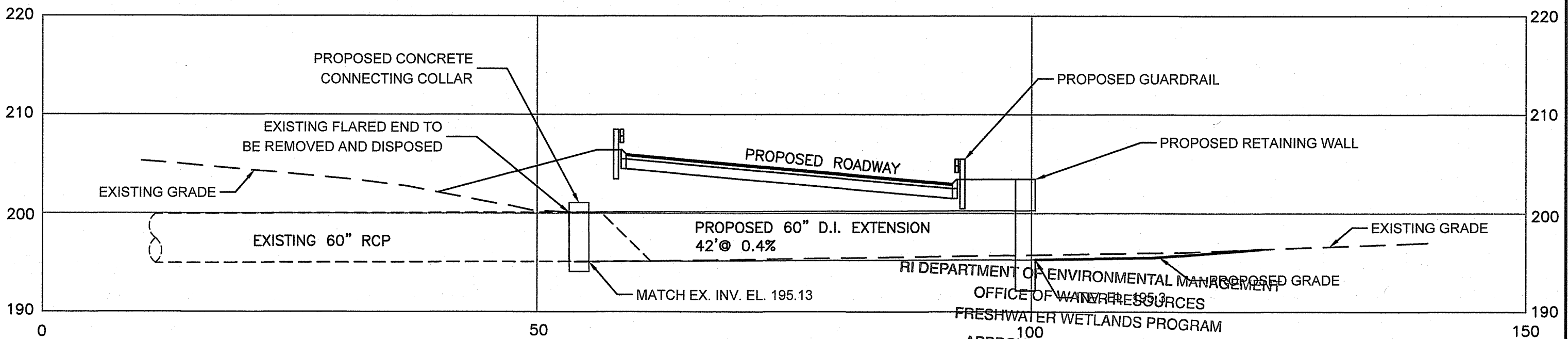
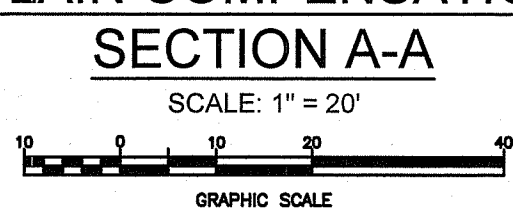
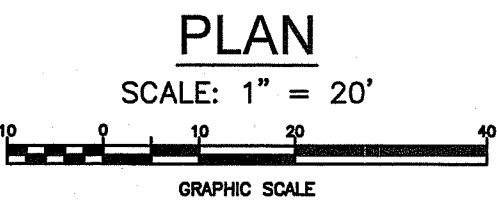
1. PLANTING IN THE COMPENSATION AREA SHALL BE DEPENDENT ON PLANT TYPE. WETLAND SEED MIX SHALL BE APPLIED APRIL - MAY. TREES AND SHRUBS SHALL BE PLANTED APRIL - MAY OR SEPTEMBER - OCTOBER.
2. PRIOR TO PLANTING, THE CONTRACTOR WILL SUBMIT AN AS-BUILT INCLUDING FINAL GRADES TO RIDOT AND ENGINEER FOR APPROVAL.
3. PRIOR TO PLANTING, ANY PLANT MATERIAL STORED ON SITE WILL BE WATERED AND CARED FOR UNDER THE DIRECTION OF THE WETLAND SCIENTIST.
4. THE WETLAND SCIENTIST SHALL INSPECT THE COMPENSATION AREA PRIOR TO PLANTING TO DETERMINE THAT THE SOILS ARE SUITABLE FOR PLANTING. THIS WILL INCLUDE TESTING OF PH AND NUTRIENTS OF THE TOPSOIL TO VERIFY RANGES ARE ACCEPTABLE FOR PLANTING. THE WETLAND SCIENTIST MAY MODIFY THE PLANTING LAYOUT FROM THE PLANTING PLAN IF THE AS-BUILT CONDITIONS POSE A THREAT TO THE SURVIVAL OF PLANTINGS.
5. HAND AUGER OR DIG TO MAKE PLANTING HOLES FOR TREES AND SHRUBS. DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. SEPARATE ANY POT-BOUND OR CRAMPED ROOTS AND SPREAD THEM WHEN PLACING THE PLANTS. MACHINERY WILL NOT BE ALLOWED WITHIN THE COMPENSATION AREA AT ANY TIME FOR PLANTING.
6. FINAL PLANT PLACEMENT WILL BE VERIFIED BY THE WETLAND SCIENTIST.
7. THE WETLAND SCIENTIST WILL COORDINATE WITH THE RIDOT LANDSCAPING UNIT PRIOR TO PLANTING.

PLANTING SCHEDULE

Code	Qty	Scientific Name	Common Name	Wetland Indicator Status	Stratum	Type & Size	Spacing
AR	37	<i>Acer rubrum</i>	Red Maple	FAC	Tree	Container or BB* 4' to 6'	10' O.C.
UA	30	<i>Ulmus americana</i>	American Elm	FACW	Tree	Container or BB* 4' to 6'	10' O.C.
BL	20	<i>Betula lenta</i>	Black birch	FACU	Tree	Container or BB* 4' to 6'	10' O.C.
CA	37	<i>Clethra alnifolia</i>	Sweet Pepperbush	FAC	Shrub	Container 2' to 3'	10' O.C.
VC	25	<i>Vaccinium corymbosum</i>	Highbush blueberry	FACW	Shrub	Container 2' to 3'	10' O.C.
VD	25	<i>Viburnum dentatum</i>	Arrowwood	FAC	Shrub	Container 2' to 3'	10' O.C.
OC	300	<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern	FACW	Herbaceous	1-Gallon container	4' O.C.
OS	245	<i>Oncoclea sensibilis</i>	Sensitive Fern	FACW	Herbaceous	1-Gallon container	4' O.C.
WM	3.5 lbs	New England Wetland Seed Mix			Herbaceous	Seed Application Rate: 1 lb / 2500 SF	

\*BB = BALLED & BURLAPPED

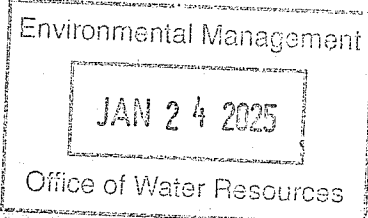
SUBSTITUTIONS IN PLANT SPECIES OR SEED MIX SHALL BE APPROVED BY THE WETLAND SCIENTIST. PLANTINGS AND SEED MIX SHALL CONSIST OF NATIVE SPECIES. SUGGESTED SUBSTITUTIONS FOR TREE AND SHRUB STRATA: GRAY BIRCH (*BETULA POPULIFOLIA*), NORTHERN SPICEBUSH (*LINDERA BENZOIN*), NANNYBERRY (*VIBURNUM LENTAGO*).



CULVERT EXTENSION ELEVATION

SCALE: 1" = 10'

APPROVED WITH CONDITIONS AS NOTED IN THE LETTER OF APPROVAL DATED: APR 16 2025 FILE #: 23-0345 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE



RHODE ISLAND  
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:  
CHECKED BY:  
DATE: MAY, 2024  
SHEET: 44  
OF: 80

SCALE: AS SHOWN

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

RECONSTRUCTION OF  
ROUTE I-95 AND ROUTE 4 INTERCHANGE  
VOLUME: 1  
EAST GREENWICH, WEST WARWICK, WARWICK  
RHODE ISLAND

RAMP ES FLOODPLAIN COMPENSATION