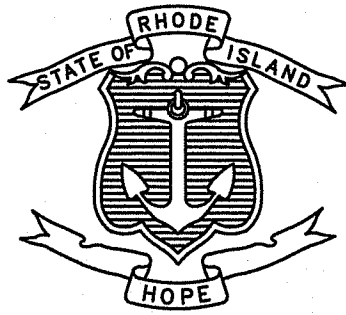


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STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED

STATE HIGHWAY

HSIP ROADWAY DEPARTURE 2024 C-1

R.I. CONTRACT NO. F.A. PROJECT NO.

PAVEMENT STRUCTURE

FDP1	(TRAVEL LANE)	FDP2	(IN SHOULDER)
	1 1/2" FRICTION COURSE		1 1/2" FRICTION COURSE
	2" MODIFIED CLASS 9.5 HMA		2" MODIFIED CLASS 9.5 HMA
	2.5" MODIFIED CLASS 12.5 HMA		8" CLASS 19.0 HMA
	8" CLASS XX PORTLAND CEMENT CONCRETE BASE COURSE		12" GRAVEL BORROW SUBBASE
	12" GRAVEL BORROW SUBBASE		

7.85 MILES

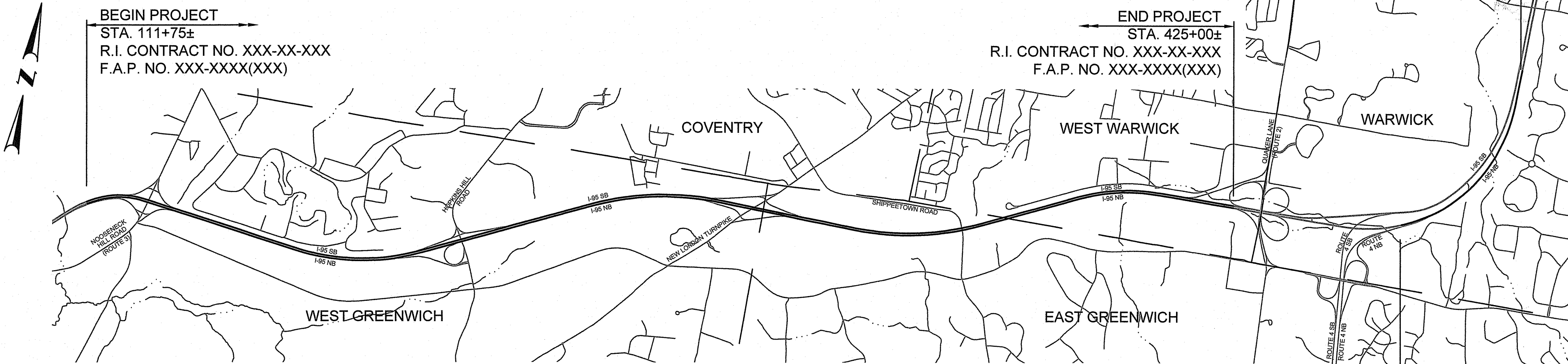
INTERSTATE 95 BETWEEN EXIT 18 AND EXIT 24

EAST GREENWICH, WEST GREENWICH, AND WEST WARWICK
KENT COUNTY

INTERSTATE 95 BETWEEN ROUTE 4

AND COWESETT ROAD

WARWICK
KENT COUNTY
R.I. CONTRACT NO. XXX-XX-XXX
F.A.P. NO. XXX-XXXX(XXX)



LAYOUT PLAN
SCALE: 1"=2000'

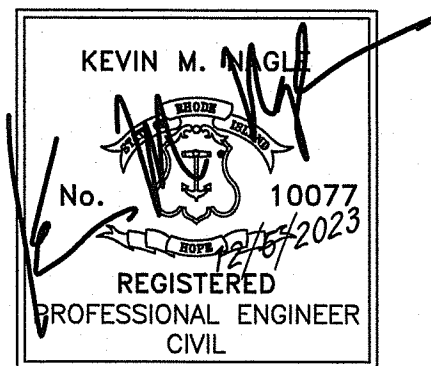
R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

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.

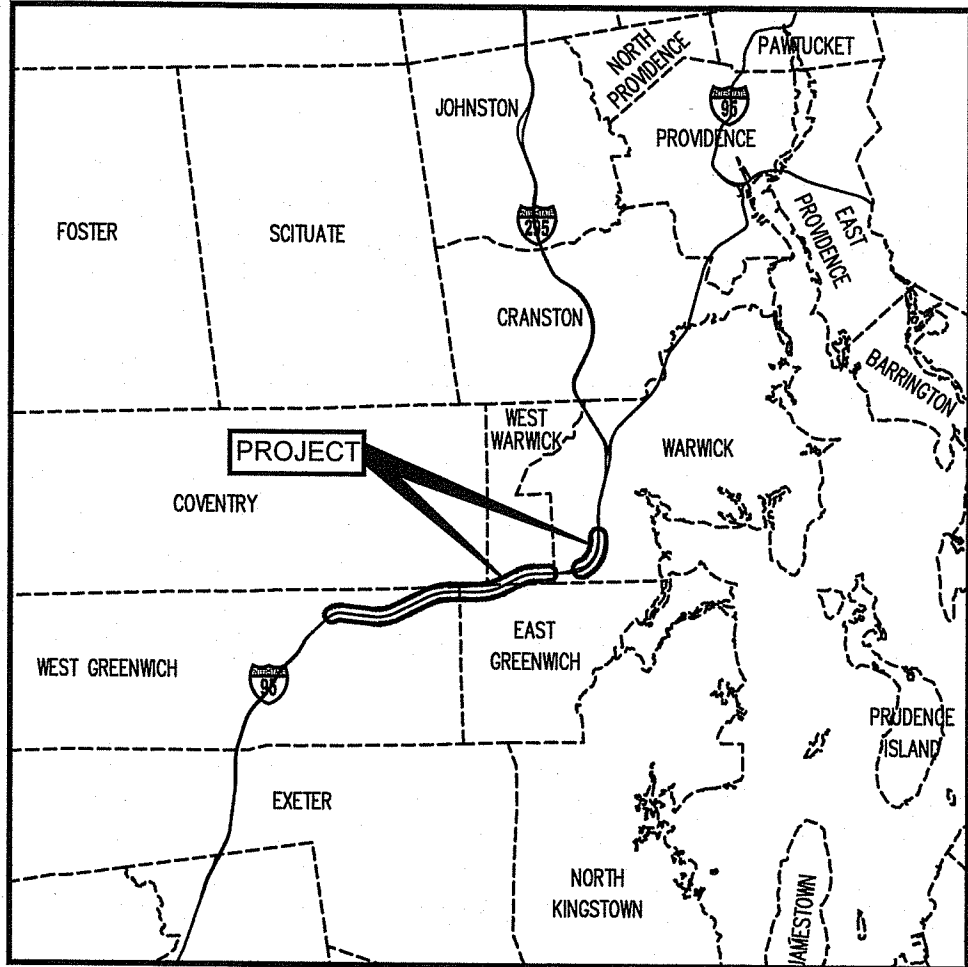
STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.



BASE OF LEVELS
VERTICAL DATUM: NAVD 88
HORIZONTAL DATUM: R.I. STATE PLANE, NAD 83



Contract Number _____
Number of Sheet 1
Total Sheets 69



LOCATION MAP
SCALE: 1"=5 MILES

DESIGN DESIGNATION

I-95 NB (EAST OF ROUTE 4)	
2023 AADT	131,700 V.P.D.
2043 AADT	138,400 V.P.D.
D	56% SB
K	8.6%
T	4.0%
2023 DHV	11,290 V.P.H.
2043 DHV	11,860 V.P.H.
DESIGN SPEED	60 M.P.H.

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

NOTE PER DEM:

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

HURRICANE EVACUATION ROUTE

This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:

- I-95

Refer to Note 18 on Sheet 3

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

APPROVED WITH CONDITIONS AS

SPECIFIED IN THE LETTER OF APPROVAL

DATED: JAN 18 2024 FILE #: 23-0218

NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman
Office of Water Resources

R.I.D.E.M SUBMISSION
DECEMBER 2023

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
ADMINISTRATOR, PROJECT MANAGEMENT	DATE
APPROVED	
CHIEF ENGINEER OF INFRASTRUCTURE	DATE
APPROVED	
DIRECTOR	
DEPARTMENT OF TRANSPORT FEDERAL HIGHWAY ADMINIS	
APPROVED	
DIVISION ADMINISTRATOR	

F:\FILES\CAD\40365.03 HSIP Roadway Departure\Received\2023 Roadway Departure-CAD File\12505Z V1 002 STDSYM.dwg, 12/5/2023 2:03:36 PM, LDaming

F:\FILES\2605Z_V1_003_STDNOTES01.dwg, 12/26/2023 2:04:17 PM, Drawing

GENERAL NOTES:

1. 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.
2. 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.
3. 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.
4. ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
5. THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF SECTION 907.
6. ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
7. 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.
8. 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.
9. THE CONTRACTOR WILL NOT BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
10. 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.
11. PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS AND SHOP DRAWINGS OR AS MODIFIED BY THE ENGINEER.
12. THE COORDINATE SYSTEM, IF SHOWN, IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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):

20. 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).
21. 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.
22. 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:

1. 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 RIDGES 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
 - a. SEEDING TYPE I.
 - b. ADHESIVE MULCH STABILIZER
7. UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
8. 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.
9. ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
10. 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.
11. 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.
12. PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL STRICTLY ADHERE TO THE PLANS AND SPECIFICATIONS.
13. 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.
14. 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.
15. 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.

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

NOTE PER DEM:

Kindly be advised that this Permit
is not equivalent to a
verification of the type or extent
of freshwater wetlands on site

DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):

16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
22. 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.
23. ANY OBSERVATIONS OF ILLICIT CONNECTIONS OR DISCHARGES TO RIDOT'S DRAINAGE NETWORK OR OUTFALLS SHALL BE REPORTED TO THE RIDOT STORMWATER UNIT IMMEDIATELY.

UTILITY NOTES:

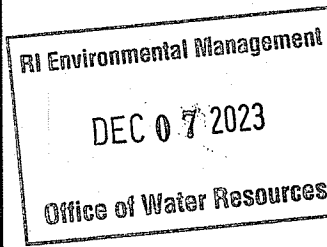
1. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS 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 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.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
4. EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.
5. UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
6. FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
7. ALL NEW WATER LINES SHALL BE DISINFECTED TO THE SATISFACTION OF THE WATER AUTHORITY IN ACCORDANCE WITH THE SPECIFICATIONS.
8. ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.
9. 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: JAN 18 2024 FILE #: 23-0218
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 3
OF: 68

SCALE: NOT TO SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	4/07	TRB	4	12/22	JRP
2	3/10	RBH			
3	4/14	MLP			

STATEWIDE

RHODE ISLAND

2023 ROADWAY DEPARTURE
IMPROVEMENTS

STANDARD NOTES - 1

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.18 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 LRD 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.

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-PLAINED 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 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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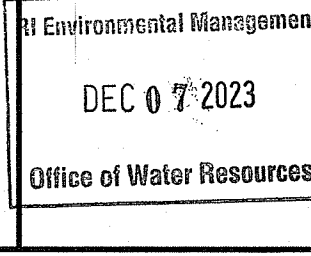
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 18 2024 FILE #: 23-0218
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 4
OF: 68

SCALE: NOT TO SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	4/07	TRB	4	12/22	JRP
2	11/07	TRB			
3	3/10	RBH			

STATEWIDE

2023 ROADWAY DEPARTURE
IMPROVEMENTS

RHODE ISLAND

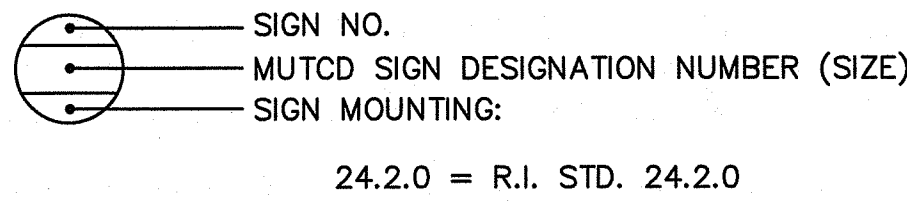
STANDARD NOTES - 2

FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	2023	5	68

JOB SPECIFIC LEGEND:

<div>BMP#</div>	STORMWATER BEST MANAGEMENT PRACTICE
<div>CS</div>	CRUSHED STONE
<div>CBP</div>	CATCH BASIN PROTECTION
<div>CFS</div>	COMPOST FILTER SOCK
<div>FDP</div>	FULL DEPTH PAVEMENT - SEE TYPICAL SECTIONS
<div>HMAP</div>	HOT MIX ASPHALT - PREPARATION FULL DEPTH
<div>LRA</div>	LANE REDUCTION ARROW - SEE DETAIL
<div>MM</div> (XX)	MICROMILL (DEPTH)
<div>OV</div>	OVERLAY 2.0" FRICTION COURSE VARIABLE DEPTH CLASS 9.5 HMA FOR LEVELING
<div>PMM</div>	PAVEMENT MILLINGS MULCH (4" DEPTH)
<div>PWW</div>	PAVED WATERWAY - SEE DETAIL
<div>SB</div>	STONE BAFFLE
<div>SCG</div>	SELECTIVE CLEARING AND GRUBBING
<div>6BW</div>	6 INCH BROKEN WHITE LANE LINE MARKING - SEE DETAIL
<div>6DWL</div>	6 INCH DASHED WHITE LANE DROP MARKING - SEE DETAIL

TYPICAL SIGN DESIGNATION SYMBOL



GENERAL NOTES:

- THE BASE MAPPING WAS DEVELOPED USING 2021 AERIAL PHOTOGRAMMETRY FOR I-95 BETWEEN EXITS 18 AND 24 AND AERIAL MAPPING PERFORMED BY BLUESKY IN APRIL 2022 FOR I-95 NORTH OF ROUTE 4. THE PAVED WATERWAYS AND DRAINAGE LINES ARE SHOWN FROM RECORD RIDOT PLANS. WETLAND FLAGGING WAS PERFORMED BY VANASSE HANGEN BRUSTLIN, INC. IN JULY 2016, APRIL 2022, AND MAY 2022.
- THE PROPOSED PAVEMENT DESIGN IS BASED OFF OF HISTORICAL PLANS (RIC #2017-CH-050 "I-95 RESURFACING ROUTE 2 TO SERVICE AVENUE")
- ANY RIGID BASE ENCOUNTERED IN AREAS DEPICTED AS REMOVE AND DISPOSE FLEXIBLE PAVEMENT ON THESE PLANS SHALL BE REMOVED BY CONTRACTOR AND PAID FOR UNDER ITEM NUMBER 401.0520 HOT MIX ASPHALT - PREPARATION FULL DEPTH.

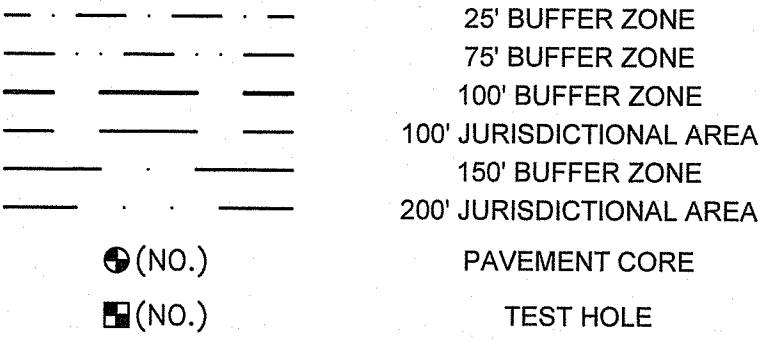
GENERAL NOTES - TREE TRIMMING:

- TRIMMING OR CLEARING OF TREES REQUIRED WITHIN THE PROJECT AREA SHALL BE PERFORMED BETWEEN NOVEMBER 1ST AND MARCH 31ST. TREE TRIMMING OR CLEARING OUTSIDE OF THIS TIME FRAME WILL NOT BE ALLOWED.

GENERAL NOTES - GUARDRAIL:

- W-BEAM AND THRIE BEAM GUARDRAIL SHALL BE INSTALLED IN ACCORDANCE WITH RIDOT STANDARD DETAIL 34.1.0.
- THE CONTRACTOR SHALL NOTE THAT THE REQUIRED INSTALLATION OF REFLECTORIZED DELINEATORS ON ALL GUARDRAIL AND GUARDRAIL END TREATMENTS SHALL BE INCIDENTAL TO THE COST OF THE GUARDRAIL ITEM. NO SEPARATE PAYMENT WILL BE MADE FOR THE REFLECTORIZED DELINEATORS. DELINEATION STICKERS ARE ALSO REQUIRED ON ALL APPROACH END SECTIONS, AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE GUARDRAIL END TREATMENT.
- WHERE EXISTING GUARDRAIL POSTS ARE REMOVED AND NO NEW GUARDRAIL IS INSTALLED, THE POST HOLES SHALL BE FILLED WITH COMMON BORROW. PLANTABLE SOIL AND SEED SHALL BE SPREAD ACROSS THE FILLED HOLES. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE REMOVAL OF THE EXISTING GUARDRAIL.
- THERE WILL BE NO DIRECT PAYMENT FOR ANY HARDWARE, UNLESS OTHERWISE NOTED, REQUIRED TO PROPERLY COMPLETE THE INSTALLATION OF GUARDRAIL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, STANDARD DETAILS, OR SPECIAL DETAILS CONTAINED IN THE CONTRACT. HARDWARE SHALL INCLUDE, BUT IS NOT LIMITED TO, ALL NUTS, BOLTS, AND WASHERS.
- THE CONTRACTOR SHALL UTILIZE BARRIER FOR TEMPORARY TRAFFIC CONTROL (MASH TL-3) AND A NARROW CONDITION IMPACT ATTENUATOR TO PROTECT ANY GUARDRAIL BLUNT ENDS DURING NON WORKING HOURS UNTIL ALL GUARDRAIL CONNECTIONS HAVE BEEN MADE AND ALL GUARDRAIL END TREATMENTS HAVE BEEN INSTALLED.
- THE DESIGN INTENT IS TO INSTALL THE POSTS OF THE PROPOSED STEEL W-BEAM GUARDRAIL TO SPAN THE PAVED WATERWAYS, DRAINAGE LINES AND LIGHTING CONDUITS. THE CONTRACTOR SHALL LOCATE THE EXISTING PAVED WATERWAYS, DRAINAGE LINES, OR BOX CULVERTS AND MARK THE LOCATION OF THE PROPOSED GUARDRAIL POSTS TO IDENTIFY IF THERE WILL BE A CONFLICT DURING INSTALLATION. IF THE CONTRACTOR IDENTIFIES A POTENTIAL CONFLICT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THE ENGINEER WILL REVIEW THE POTENTIAL CONFLICT AND PROVIDE DIRECTION TO THE CONTRACTOR. THE COST TO LOCATE EXISTING PAVED WATERWAYS, DRAINAGE LINES, BOX CULVERTS, AND LIGHTING CONDUITS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE INDIVIDUAL GUARDRAIL PAY ITEM. IF IT IS DETERMINED THAT THE STANDARD POST SPACING CANNOT BE USED TO SPAN THE EXISTING PAVED WATERWAYS, DRAINAGE LINES, OR BOX CULVERTS, THEN A W-BEAM OR THRIE BEAM LONG SPAN SYSTEM SHALL BE USED. THE COST ASSOCIATED WITH LONG SPAN SYSTEM WILL INCLUDED IN ITEM 901.1000 STEEL BEAM GUARDRAIL.
- EXISTING DELINEATORS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED WITHIN THE LIMITS OF THE NEW GUARDRAIL RUN. REMOVAL AND DISPOSAL OF EXISTING DELINEATORS AND POST WILL BE INCLUDED IN THE COST TO REMOVE AND DISPOSE EXISTING GUARDRAIL.
- NEW DELINEATORS SHALL BE PLACED TO THE DIMENSIONS AND SPACING AS SHOWN IN CHAPTER 3F OF THE MUTCD. THIS WORK SHALL BE PAID FOR UNDER THE RESPECTIVE BID ITEMS "DELINEATOR - YELLOW" OR "DELINEATOR - WHITE."

JOB SPECIFIC PLAN SYMBOLS:



PAVEMENT STRUCTURE

<div>FDP1</div>	2.0" FRICTION COURSE 2.0" MODIFIED CLASS 12.5 HMA 2.0" MODIFIED CLASS 12.5 HMA 8.0" CLASS XX PORTLAND CEMENT CONCRETE BASE COURSE 12" GRAVEL BORROW SUBBASE
<div>FDP2</div>	2.0" FRICTION COURSE 2.0" MODIFIED CLASS 12.5 HMA 7.5" CLASS 19.0 HMA
<div>FDP3</div>	2.0" MODIFIED CLASS 12.5 HMA 4.0" class 19.0 HMA
<div>MM</div> (XX)	MICROMILL (DEPTH)
<div>OV</div>	OVERLAY 2.0" FRICTION COURSE

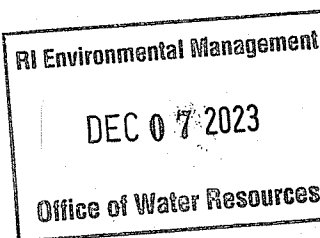
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
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SHEET: 5
OF: 68

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STATEWIDE

RHODE ISLAND

JOB SPECIFIC
PLAN SYMBOLS, LEGEND & NOTES

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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WARWICK

MATCHLINE TO BELOW

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LEGEND

⊗ INDICATES PLAN NUMBER

WARWICK



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

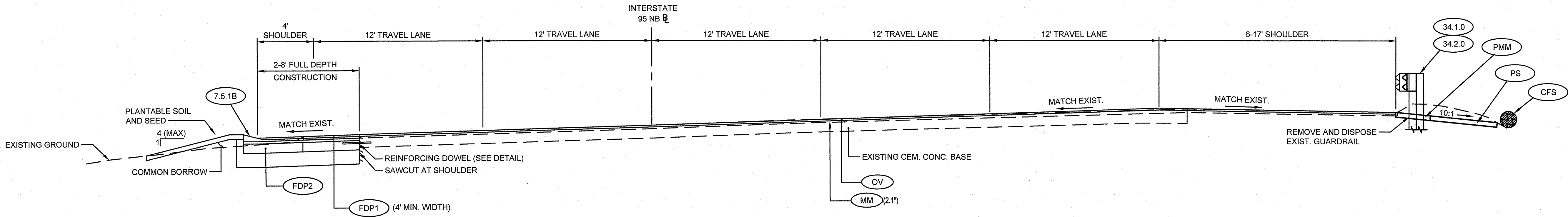
RI Environmental Management
DEC 07 2023
Office of Water Resources

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SHEET: 7
OF: 68

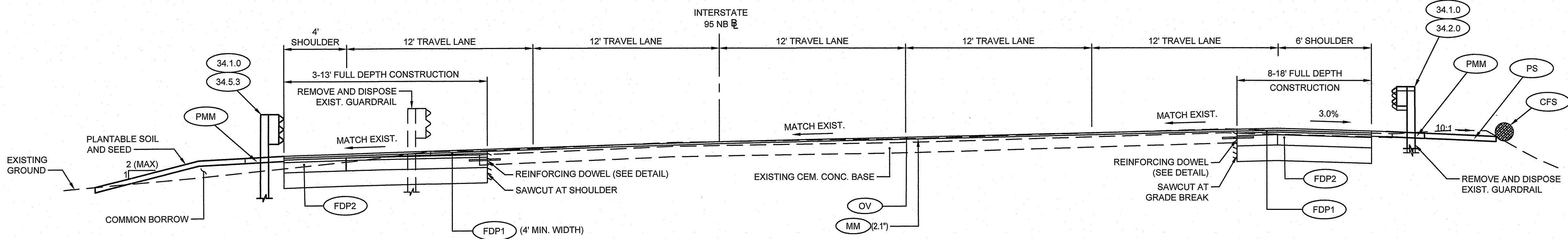
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2023 ROADWAY DEPARTURE
IMPROVEMENTS

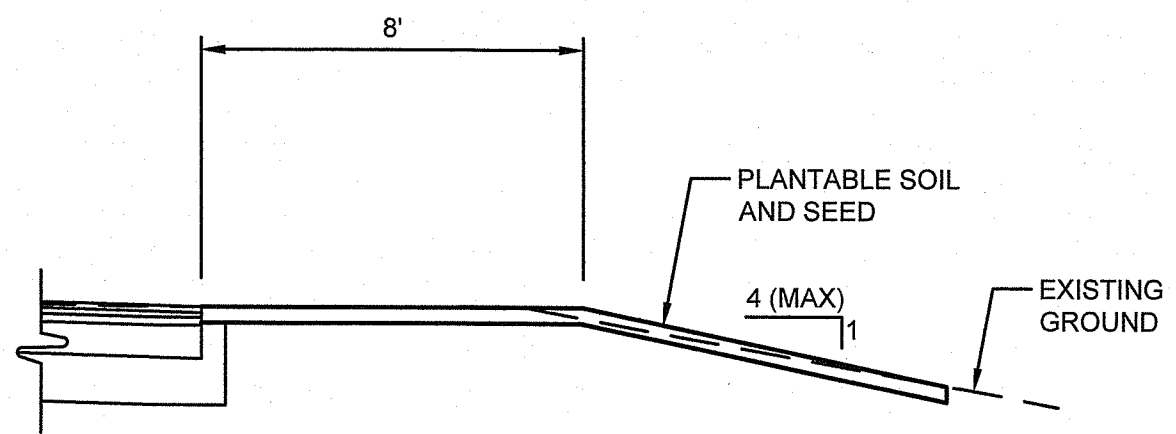
KEY PLAN NO. 2
INTERSTATE 95 BETWEEN ROUTE 4 AND COWESETT ROAD



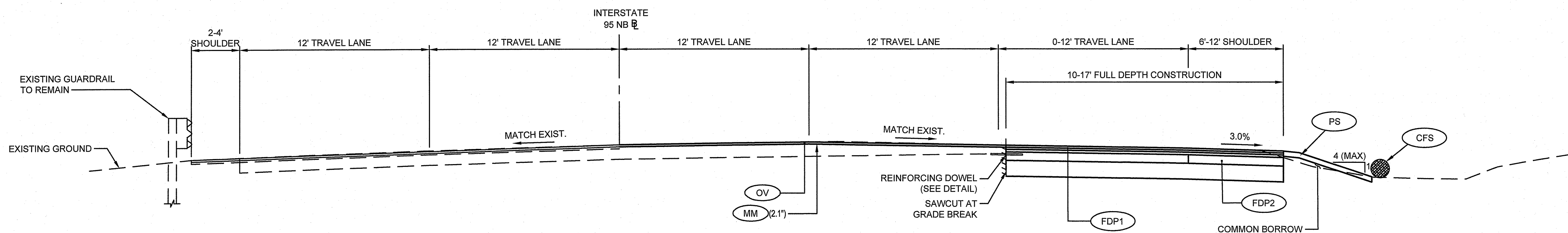
STATION 19+40 TO STATION 30+00
INTERSTATE 95 NB
SCALE: 1"=4'



STATION 30+00 TO STATION 64+15
INTERSTATE 95 NB
SCALE: 1"=4'



STATION 51+50 RT. TO STATION 53+50 RT.
INTERSTATE 95 NB
SCALE: 1"=4'



STATION 64+15 TO STATION 72+20
INTERSTATE 95 NB
SCALE: 1"=4'

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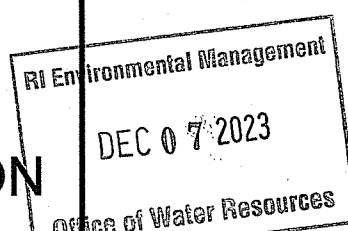
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- PAVEMENT STRUCTURE**
- FDP1**
 - 2.0" FRICTION COURSE
 - 2.0" MODIFIED CLASS 12.5 HMA
 - 2.0" MODIFIED CLASS 12.5 HMA
 - 8.0" CLASS XX PORTLAND CEMENT CONCRETE BASE COURSE
 - 12" GRAVEL BORROW SUBBASE COURSE
 - FDP2**
 - 2.0" FRICTION COURSE
 - 2.0" MODIFIED CLASS 12.5 HMA
 - 7.5" CLASS 19.0 HMA
 - 12" GRAVEL BORROW SUBBASE COURSE
 - MM (XX)**
 - MICROMILL (DEPTH)
 - OV**
 - OVERLAY
 - 2.0" FRICTION COURSE
- NOTE: FRICTION COURSE SHALL BE PLACED FROM EDGE OF PAVEMENT TO
EDGE OF PAVEMENT ONCE ROADWAY HAS BEEN MICROMILLED

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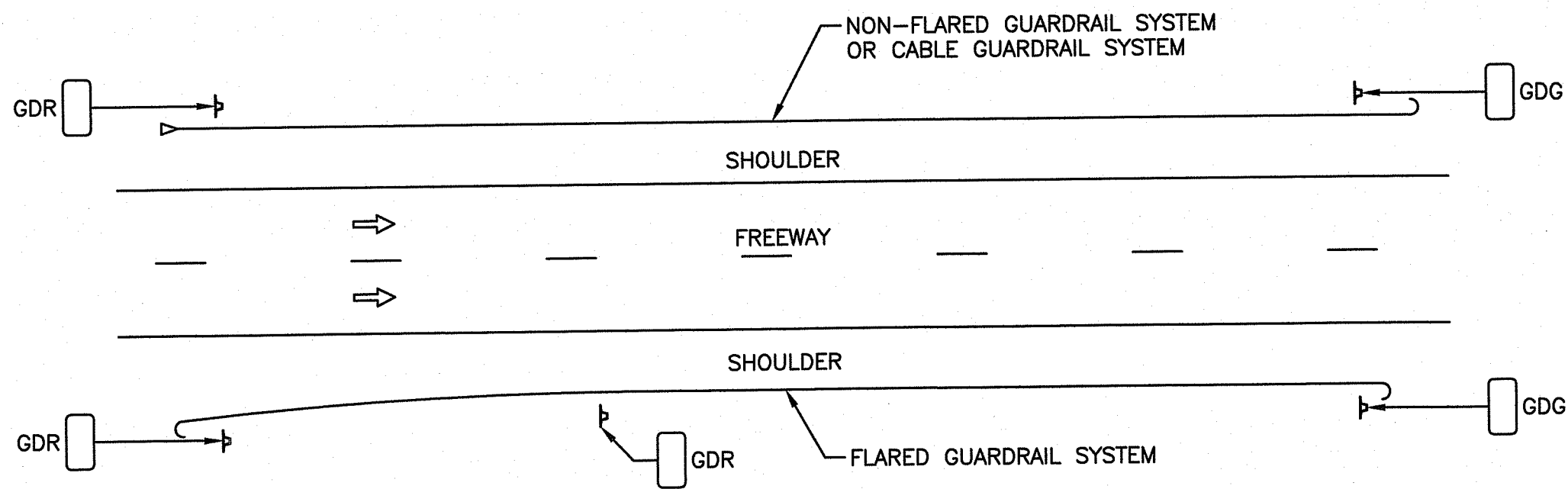


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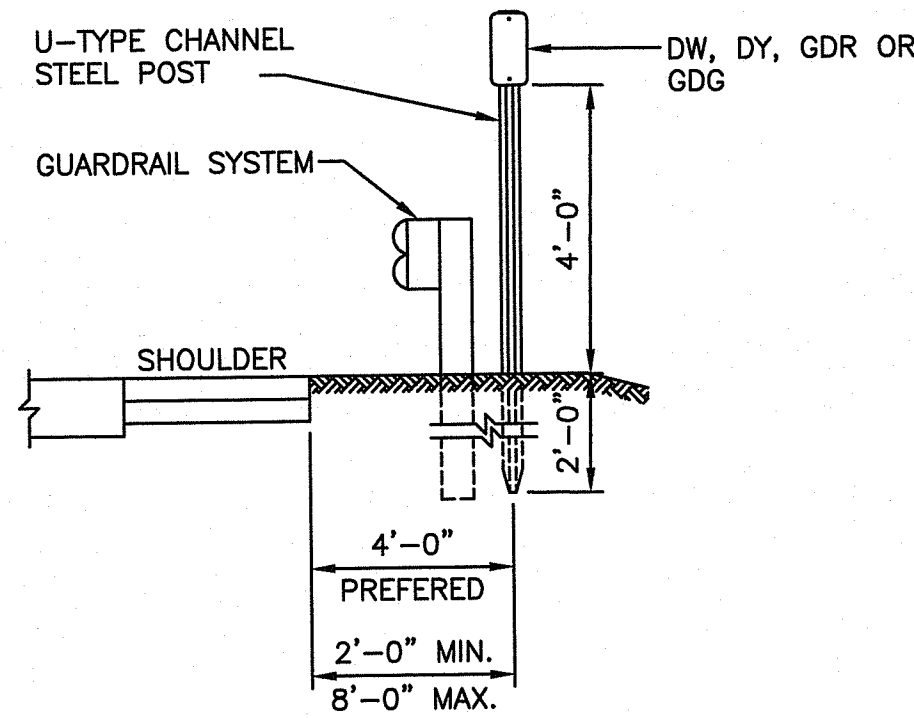
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2023 ROADWAY DEPARTURE
IMPROVEMENTS

TYPICAL SECTIONS



TYPICAL GUARDRAIL END DELINEATOR INSTALLATION ON HIGHWAYS
NOT TO SCALE

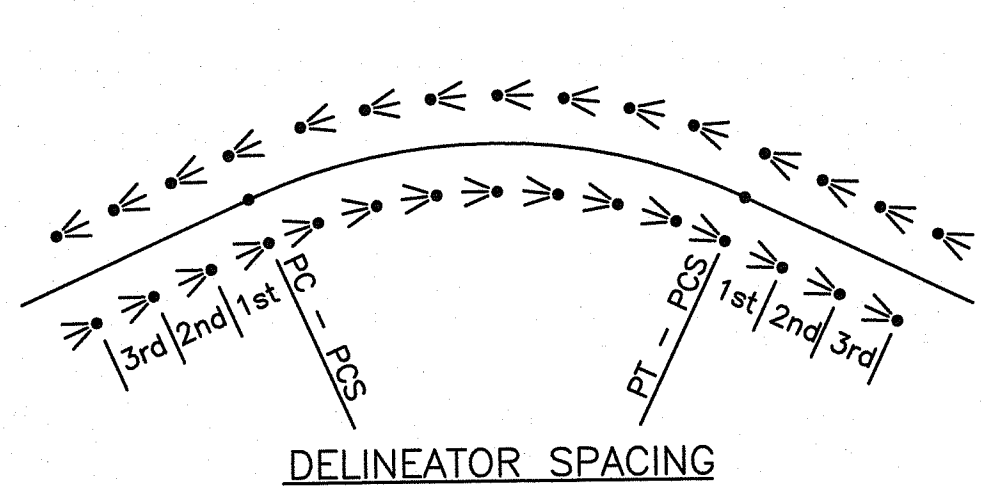


TYPICAL SHOULDER SECTION FOR GUARDRAIL END DELINEATOR
NOT TO SCALE

LEGEND

- GDG GUARDRAIL END DELINEATOR - GREEN
GDR GUARDRAIL END DELINEATOR - RED
DY DELINEATOR - YELLOW
DW DELINEATOR - WHITE
▷ DELINEATOR
⇒ DIRECTION OF TRAVEL

GUARDRAIL DELINEATOR DETAILS AND NOTES
NOT TO SCALE

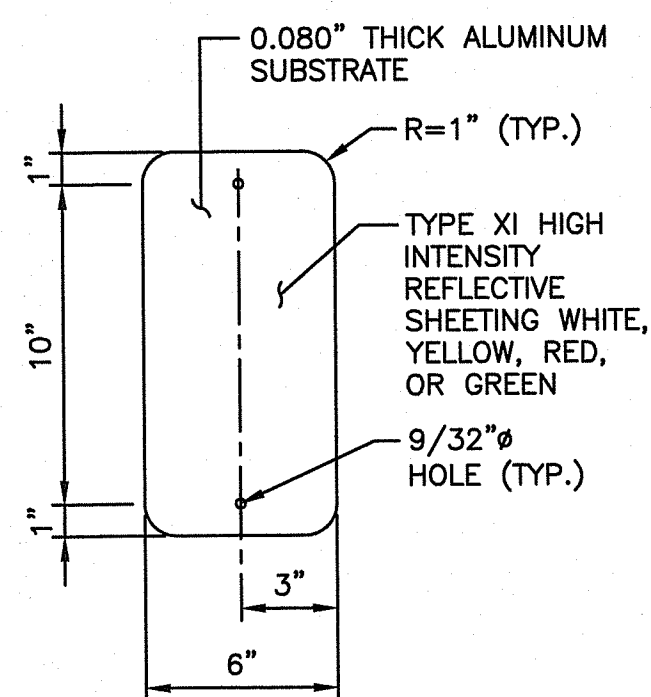


NOTE: SPACING OF DELINEATORS IN ADVANCE OF AND BEYOND CURVES (ON MAIN LINE ONLY); THE FIRST = 2 x S, THE SECOND = 3 x S, AND THE THIRD = 6 x S, BUT NOT TO EXCEED 264 FEET

ROADWAY DELINEATOR SPACING CHART
NOT TO SCALE

NOTES

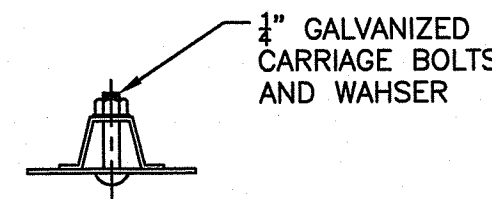
- GUARDRAIL ENDS DELINEATOR GDR AND GDG SHALL BE USED TO MARK THE STARTS AND ENDS OF A LONGITUDINAL GUARDRAIL AND SHALL BE INSTALLED IMMEDIATELY BEHIND GUARD RAIL TERMINAL ENDS (ALL TYPES) AS SHOWN ON THIS SHEET. THE HOLE SHALL BE THOROUGHLY PAINTED WITH TOUCH-UP GALVANIZED SPRAY PAINT PRIOR TO ATTACHING THE DELINEATOR POST.
- WHEN LEDGE IS ENCOUNTERED BEFORE THE 2'-0" MINIMUM EMBEDMENT DEPTH, POSTS SHALL BE SECURED A MINIMUM OF 12" INTO LEDGE.
- U-CHANNEL POST AND REFLECTOR SIZE AND HARDWARE SHALL MEET THE REQUIREMENTS AS SHOWN IN DELINEATOR PANEL DETAILS AND NOTES FOR SINGLE FACE REFLECTOR, WITH EXCEPTION OF THE COLOR OF THE REFLECTOR TO BE GREEN AND RED.



SINGLE FACE DELINEATOR PANEL
6X12
NOT TO SCALE

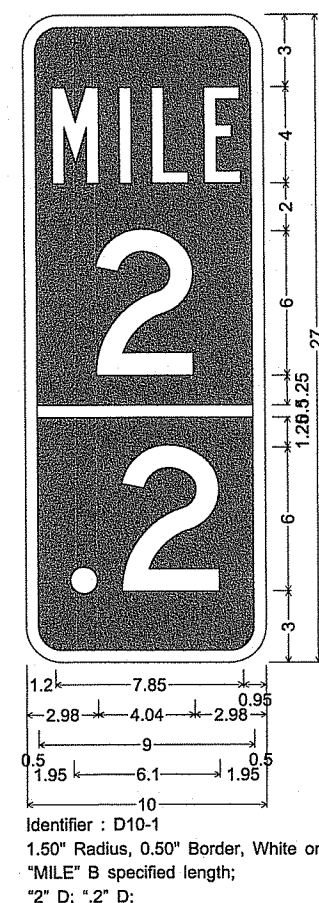
NOTE

- THE HOLES SHALL BE THOROUGHLY PAINTED WITH A TOUCH-UP GALVANIZED SPRAY PAINT PRIOR TO ATTACHING THE DELINEATOR POST. THE COST OF FURNISHING AND INSTALLING THESE DELINEATORS SHALL BE INCLUDED IN THE PRICE BID FOR THE POST MOUNTED DELINEATOR ITEMS.



SINGLE REFLECTOR
PANEL TO POST ATTACHMENT
NOT TO SCALE

DELINEATOR PANEL DETAILS AND NOTES
NOT TO SCALE

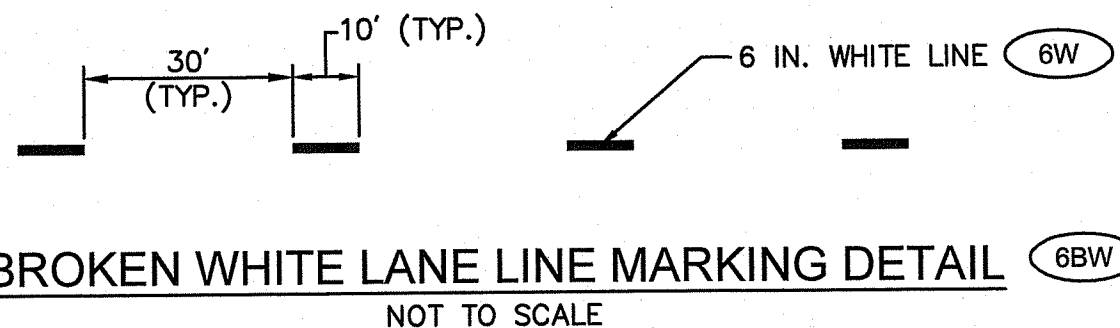


D10-1a
NOT TO SCALE

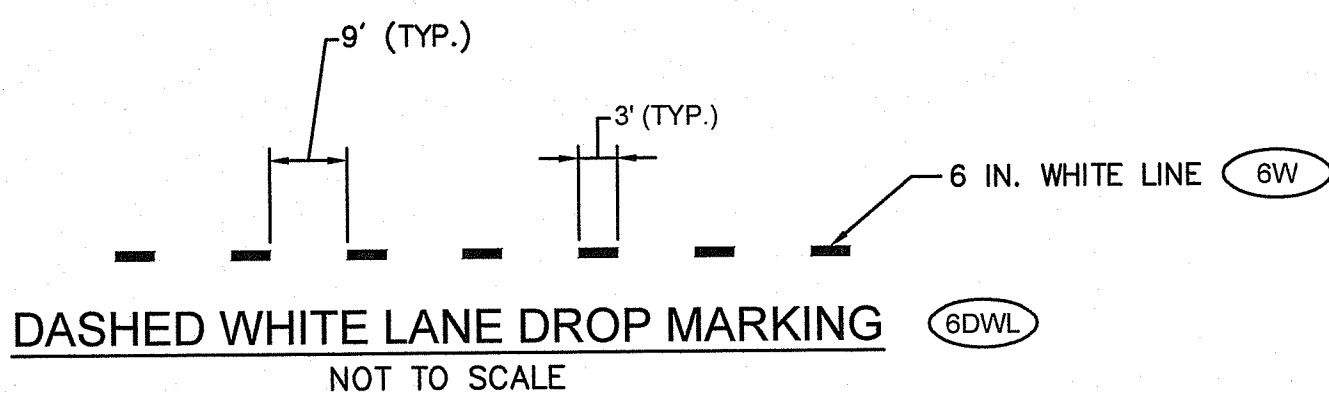
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

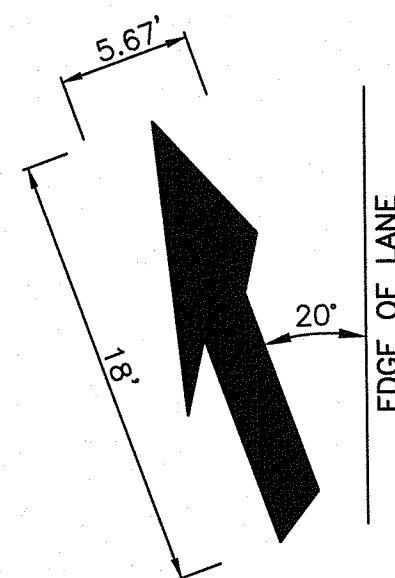
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BROKEN WHITE LANE LINE MARKING DETAIL (6BW)
NOT TO SCALE



DASHED WHITE LANE DROP MARKING (6DWL)
NOT TO SCALE



LANE REDUCTION ARROW
NOT TO SCALE

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

APPROVED WITH CONDITIONS AS

SPECIFIED IN THE LETTER OF APPROVAL

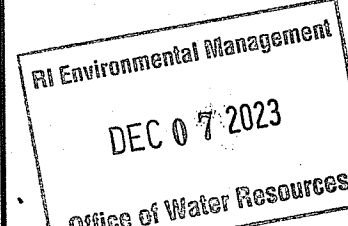
DATED: JAN 18 2024 FILE #: 23-0218

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

Nancy L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 9
OF: 68

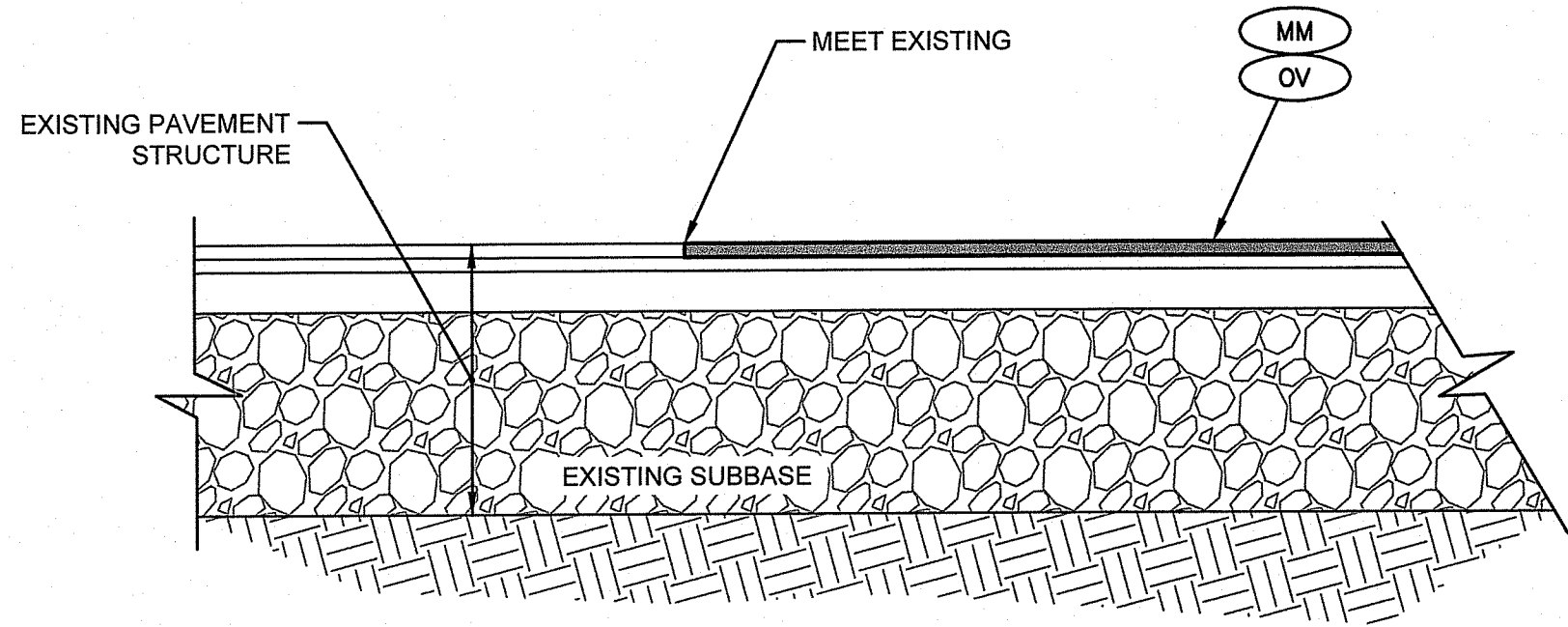
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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

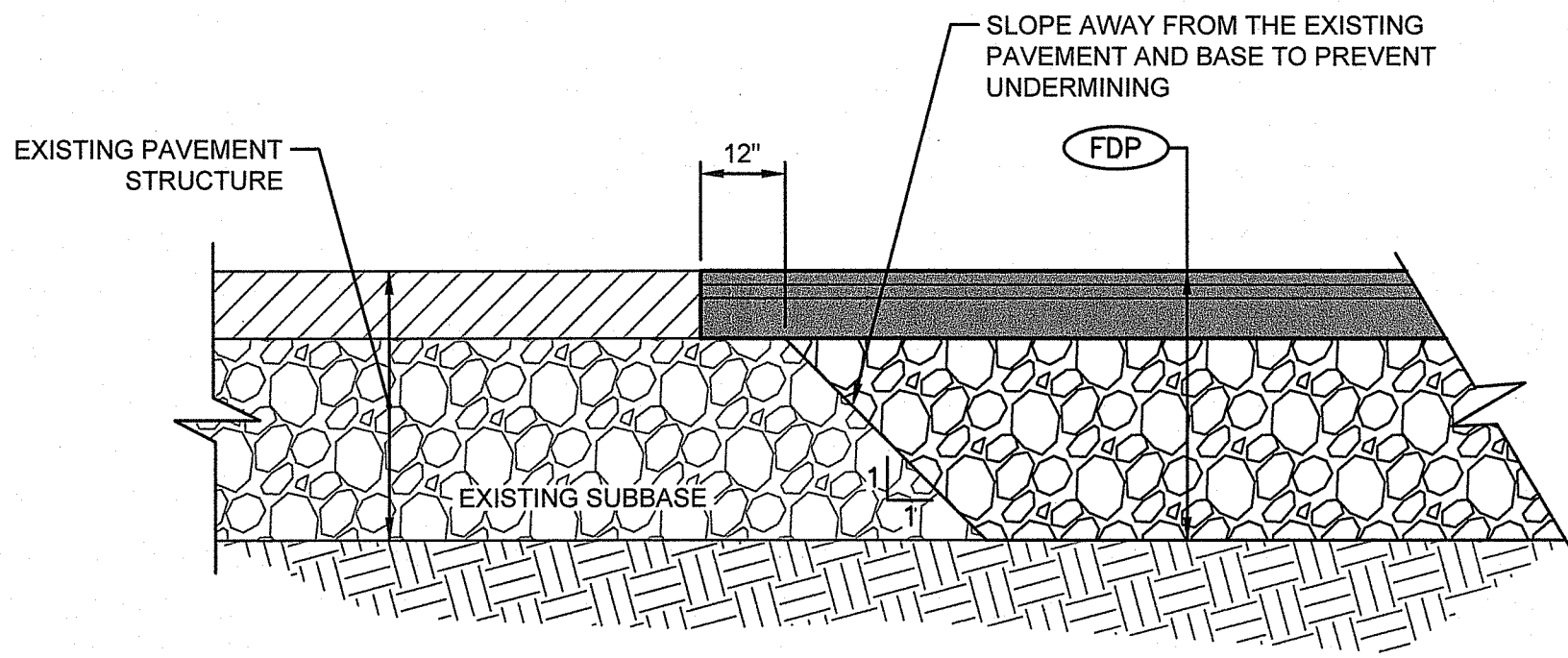
2023 ROADWAY DEPARTURE
IMPROVEMENTS

DETAILS NO. 1

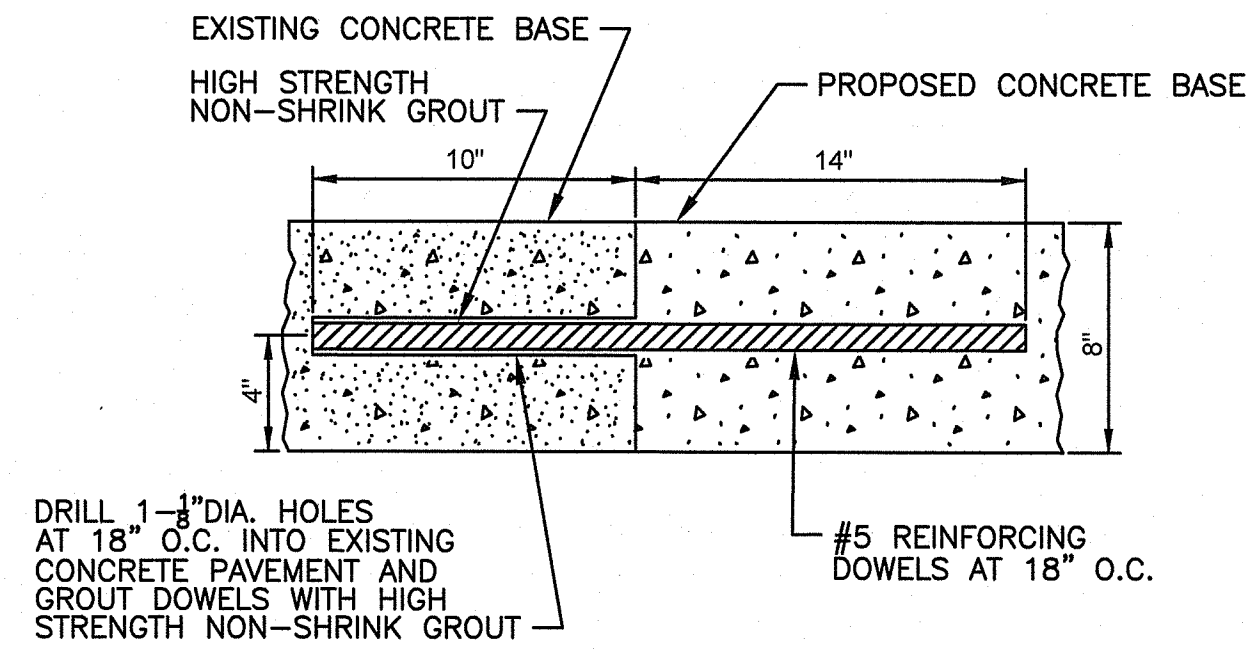
FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	2023	10	68



PAVEMENT TRANSITION - MIRCOMILLING TO EXISTING
NOT TO SCALE



PAVEMENT TRANSITION - FULL DEPTH TO EXISTING
NOT TO SCALE



NOTE:
1. GROUT SHALL BE PER THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION APPROVED PRODUCTS LIST.

RIGID BASE REINFORCING DOWEL DETAIL
NOT TO SCALE

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

NOTE PER DEM:

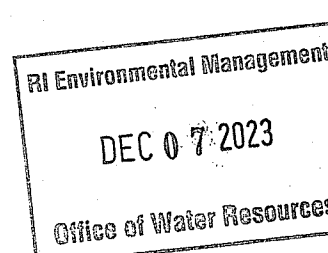
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 18 2024 FILE #: 23-0218
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Emily L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



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CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 10
OF: 68

SCALE:

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NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE IMPROVEMENTS

STATEWIDE

RHODE ISLAND

DETAILS NO. 2

FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	2023	24	68

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

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

APPROVED WITH CONDITIONS AS

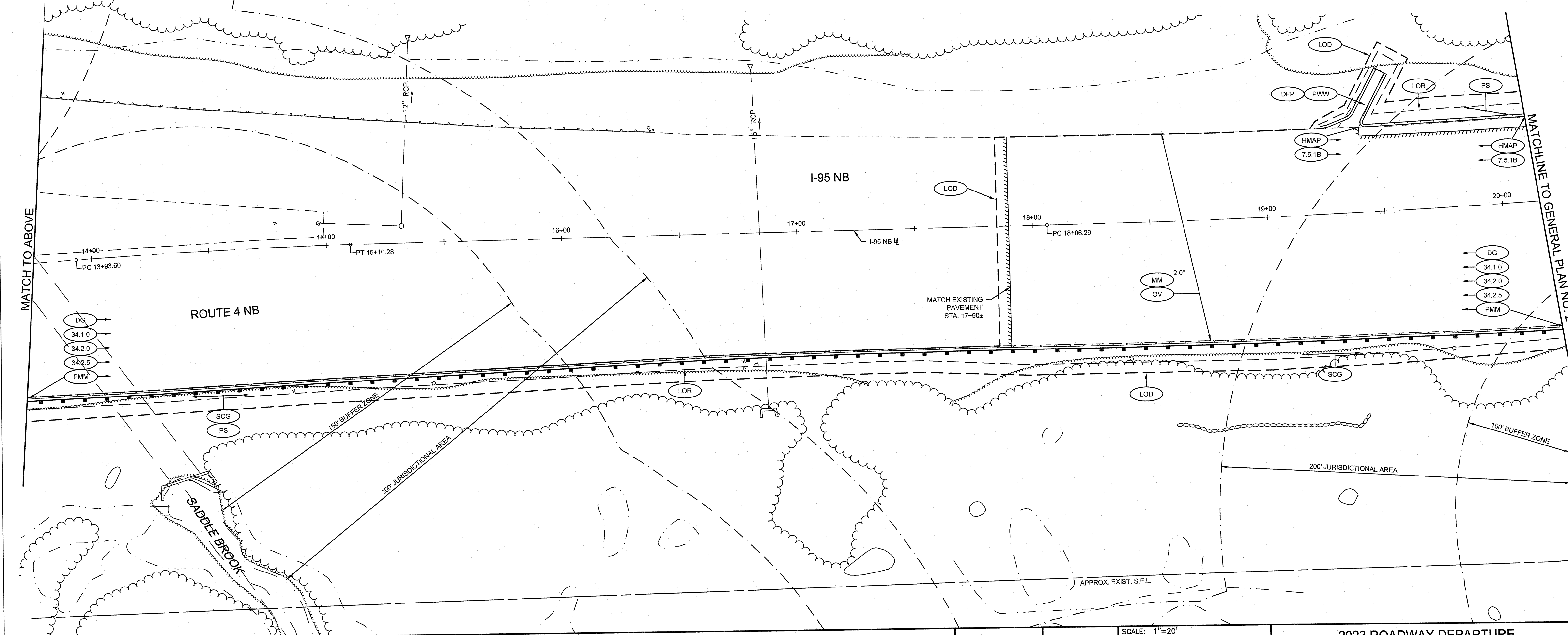
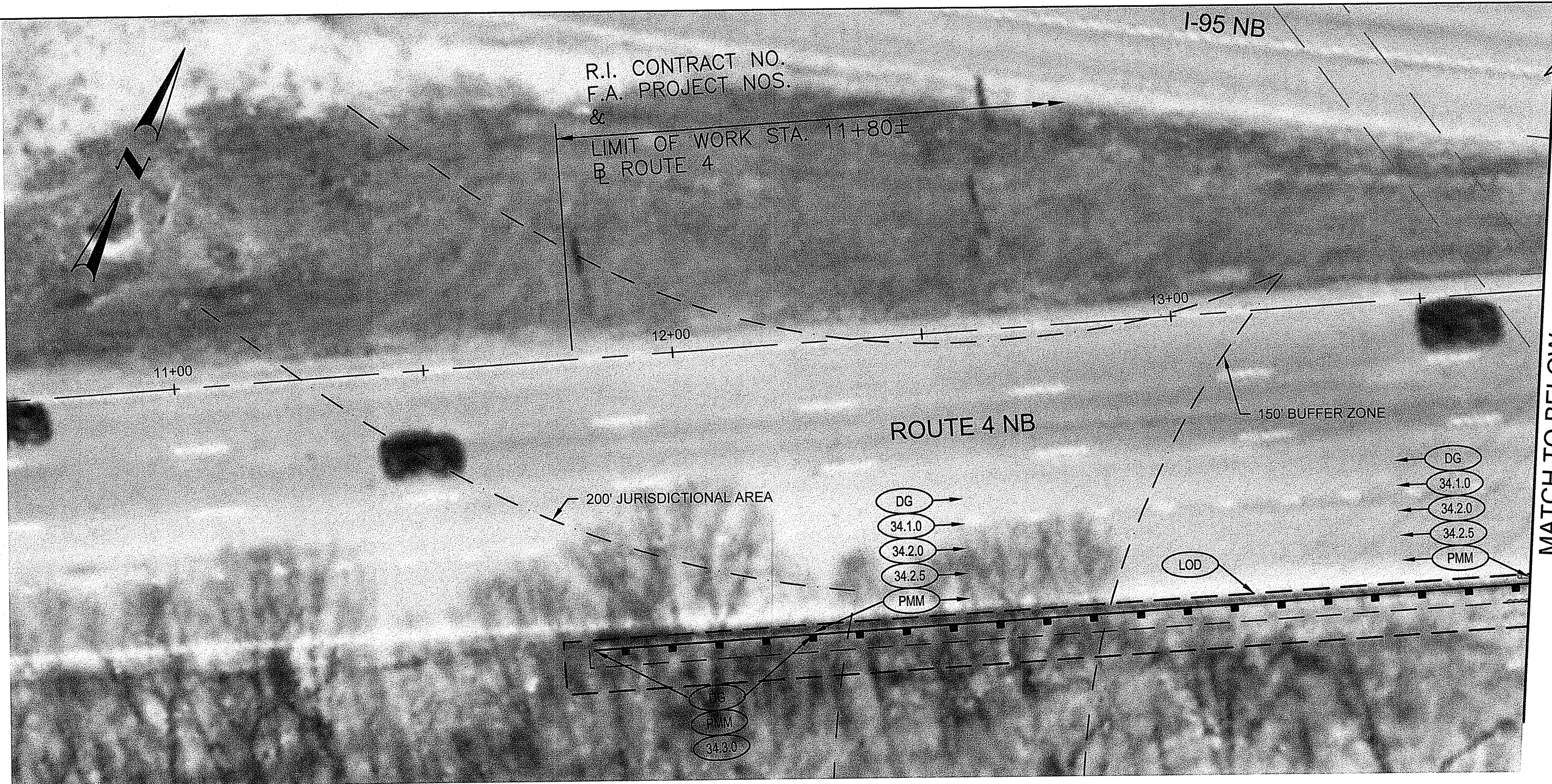
SPECIFIED IN THE LETTER OF APPROVAL

DATED: JAN 10 2024 FILE #: 23-0218

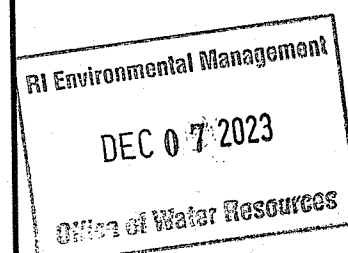
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

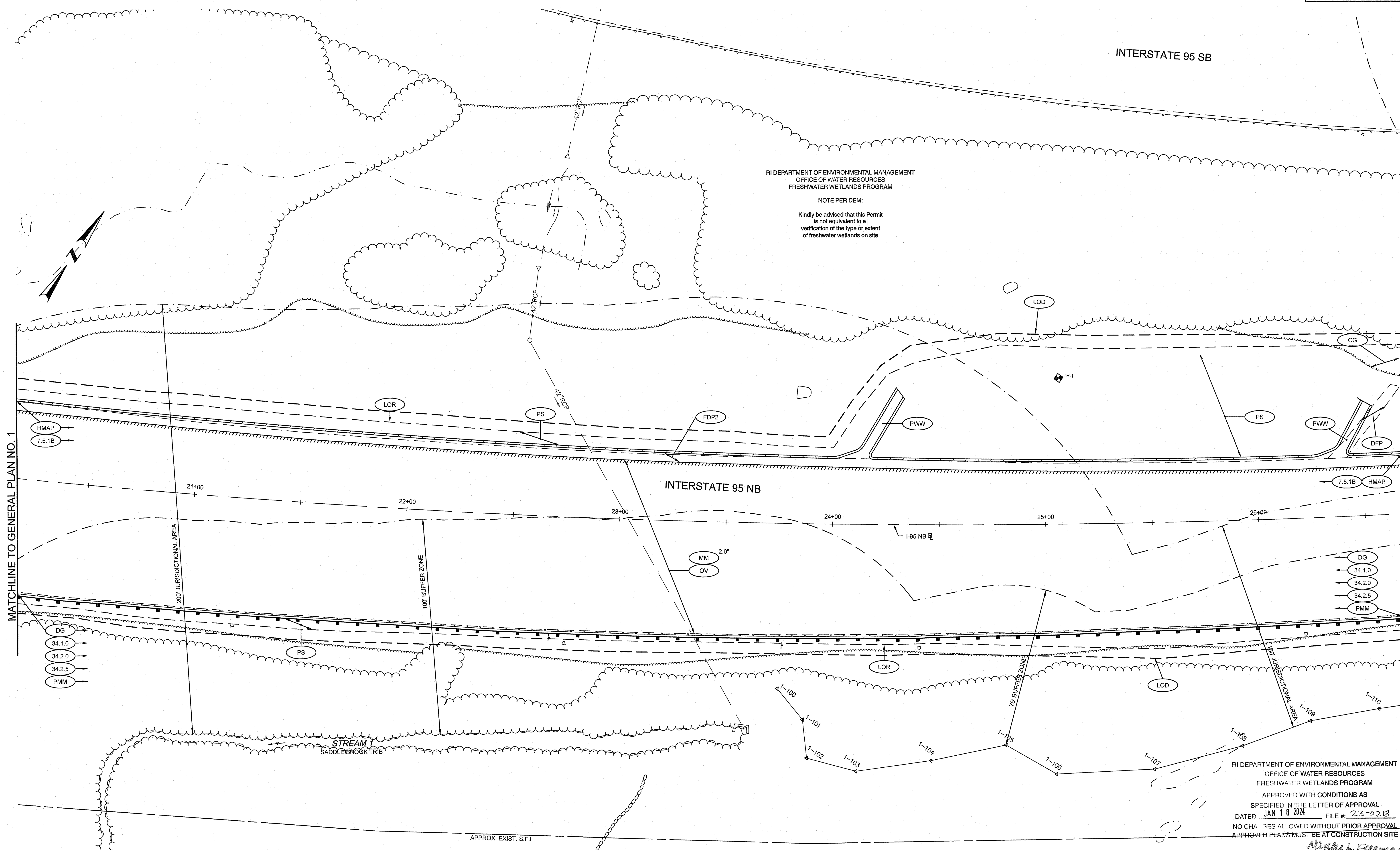


DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 24
OF: 68

SCALE: 1"=20'					
SCALE IN FEET					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE
IMPROVEMENTS

GENERAL PLAN NO. 1



MATCHLINE TO GENERAL PLAN NO. 1

MATCHLINE TO GENERAL PLAN NO. 3

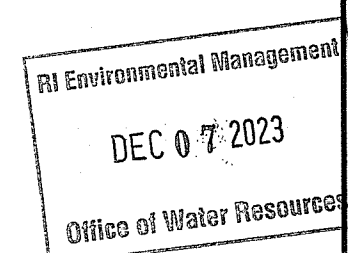
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 18 2024 FILE #: 23-0218
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Nancy L. Freeman

F:\FILES\2023\03\03\Roadway\Departure\2023 Roadway Departure CAD_Files\025_V1_025_GENERAL.dwg, 12/02/2023 2:27:59 PM, Mfrancisco



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 25
OF: 68

SCALE: 1"=20'					
SCALE IN FEET					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE
IMPROVEMENTS

GENERAL PLAN NO. 2

INTERSTATE 95 SB

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 18 2024 FILE # 23-0213
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Nancy L. Freeman

WETLAND 6
HIGHWAY WETLAND

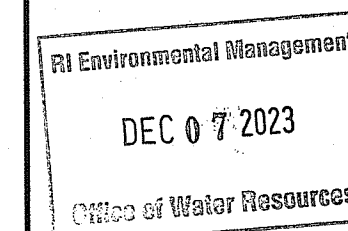
WETLAND 3
FORESTED SWAMP

INTERSTATE 95 NB

APPROX. EXIST. S.F.L.



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DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
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DATE: NOVEMBER, 2023
SHEET: 28
OF: 68

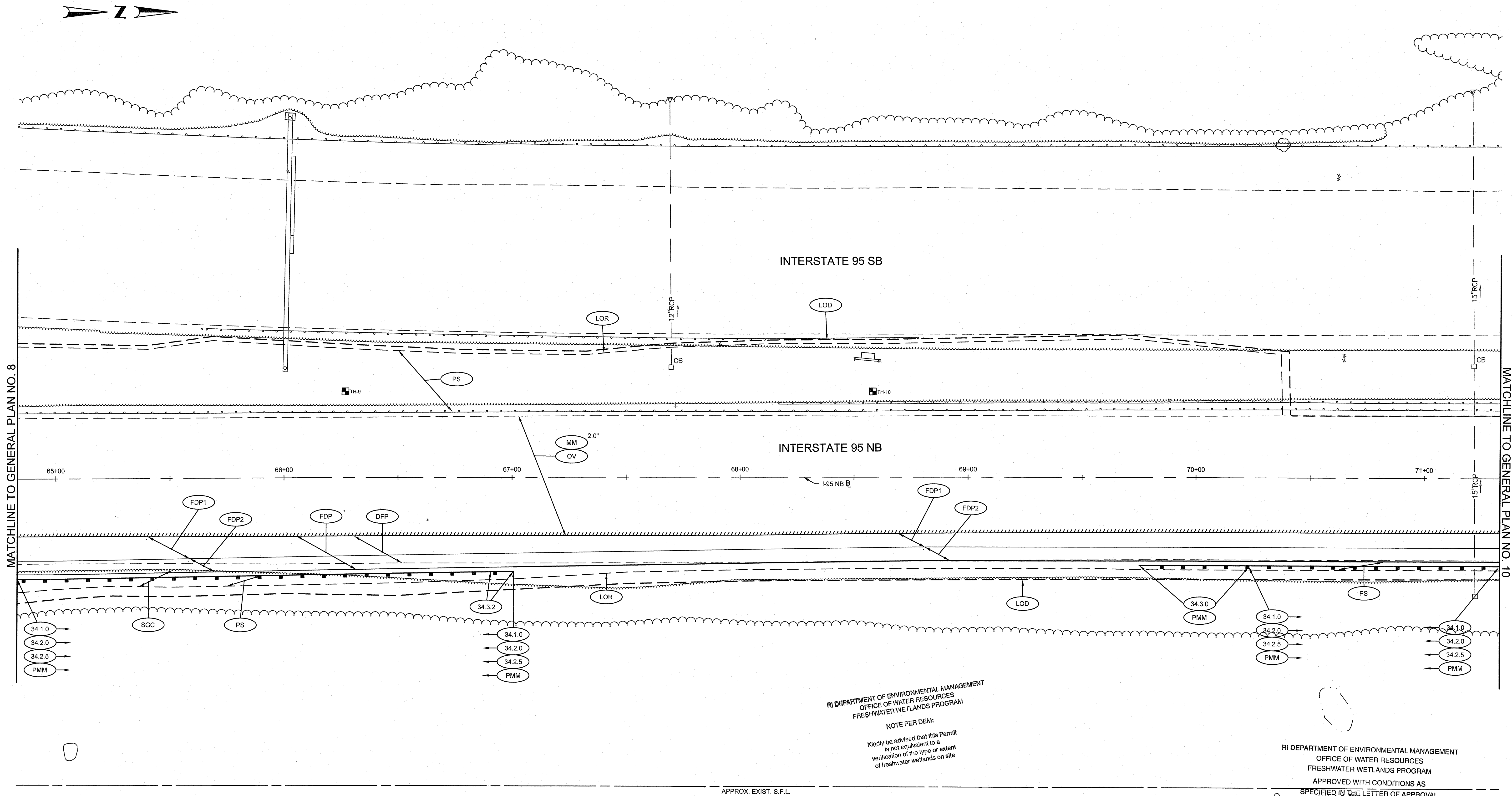
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SCALE IN FEET	
REVISIONS	REVISIONS
NO. DATE BY	NO. DATE BY

STATEWIDE

2023 ROADWAY DEPARTURE
IMPROVEMENTS

RHODE ISLAND

GENERAL PLAN NO. 5



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OFFICE OF WATER RESOURCES
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DATED: JAN 18 2024 FILE #: 23-0218
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Abigail L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

RI Environmental Management
DEC 07 2023
Office of Water Resources

DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 32
OF: 68

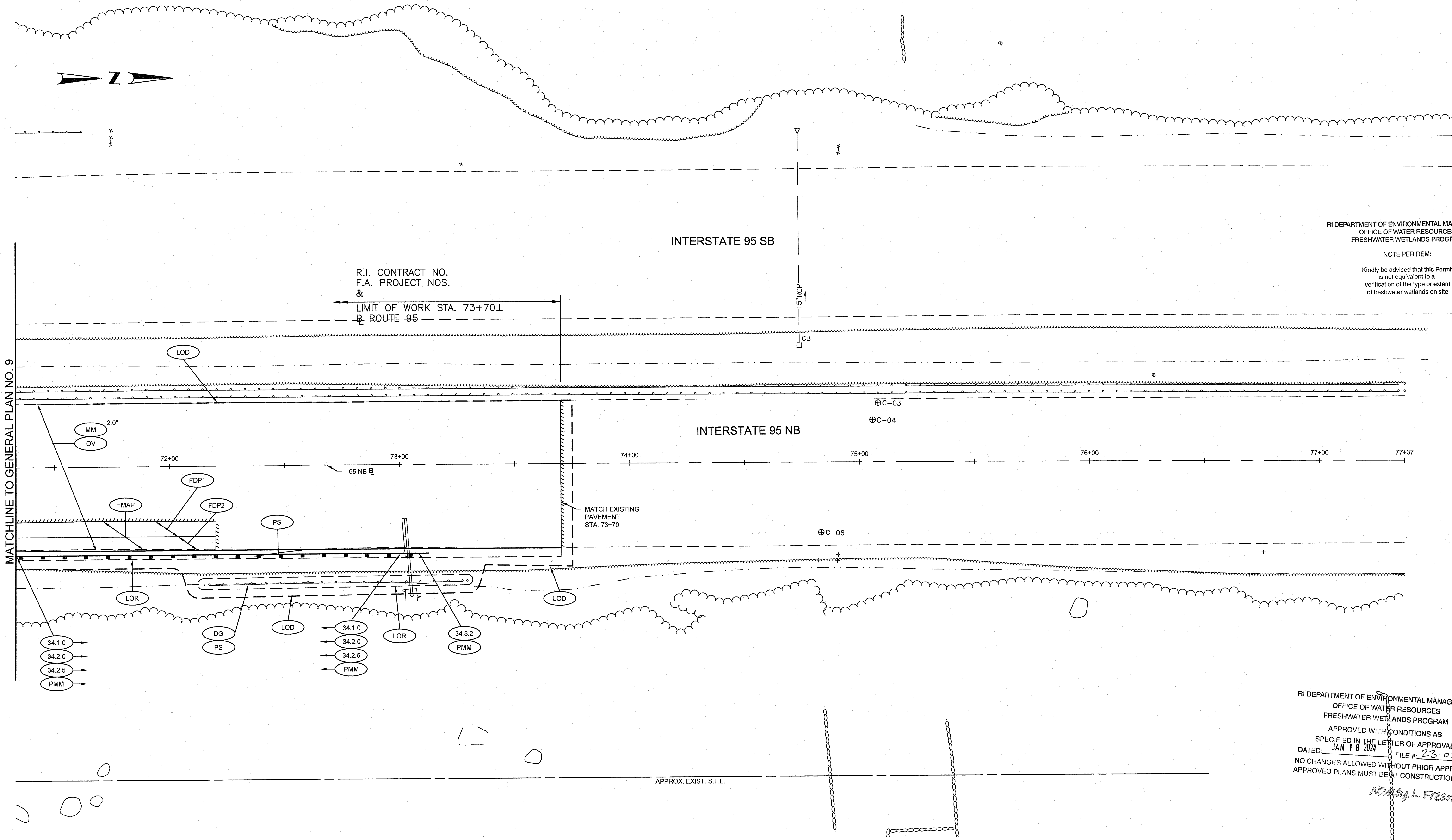
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2023 ROADWAY DEPARTURE
IMPROVEMENTS

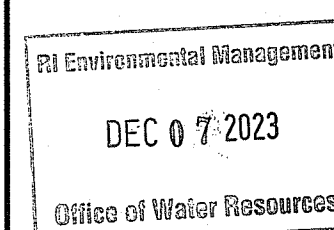
STATEWIDE

RHODE ISLAND

GENERAL PLAN NO. 9



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 33
OF: 68

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20 0 20 40					
SCALE IN FEET					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE
IMPROVEMENTS

GENERAL PLAN NO. 10

FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	2023	34	68

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

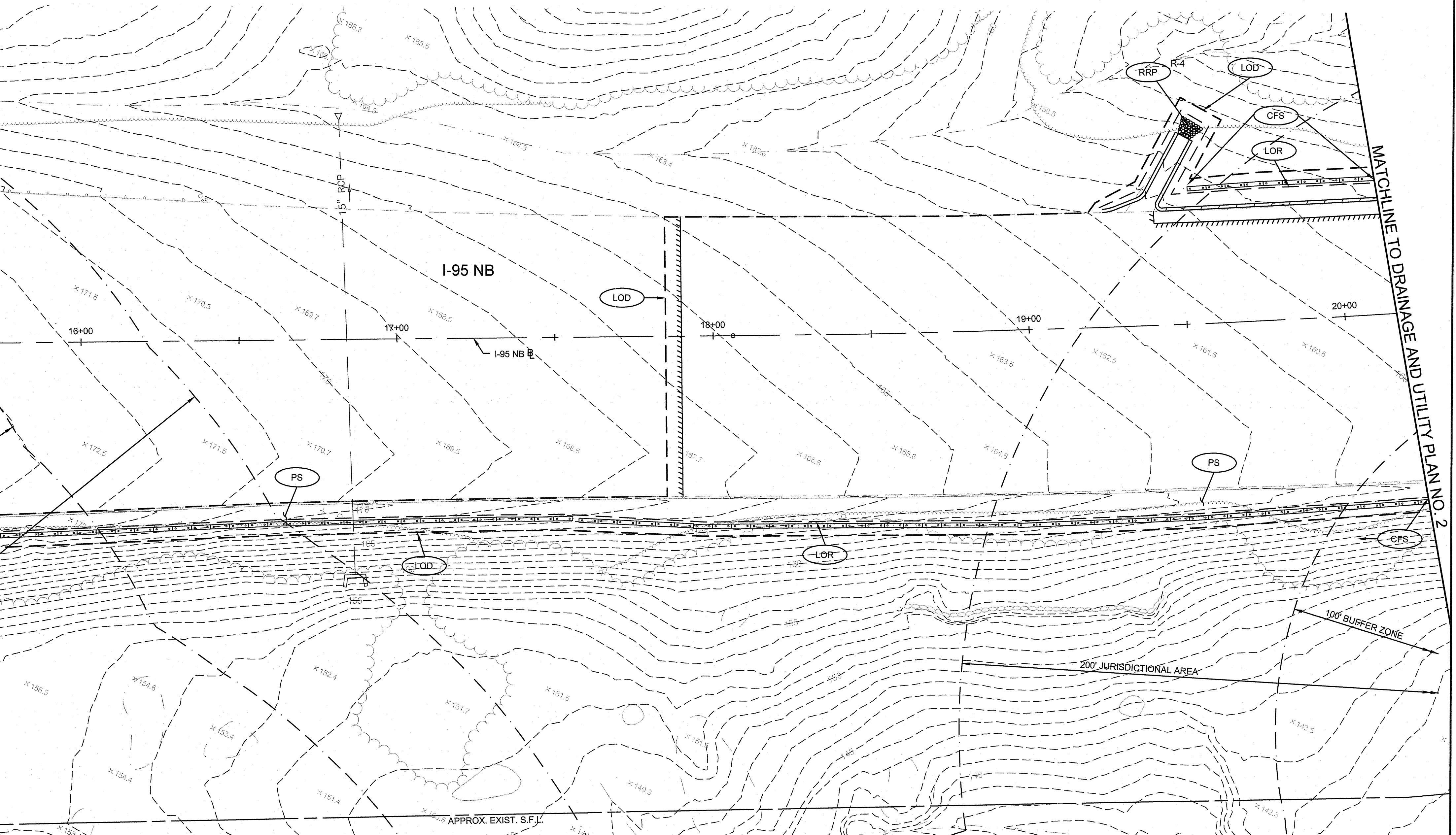
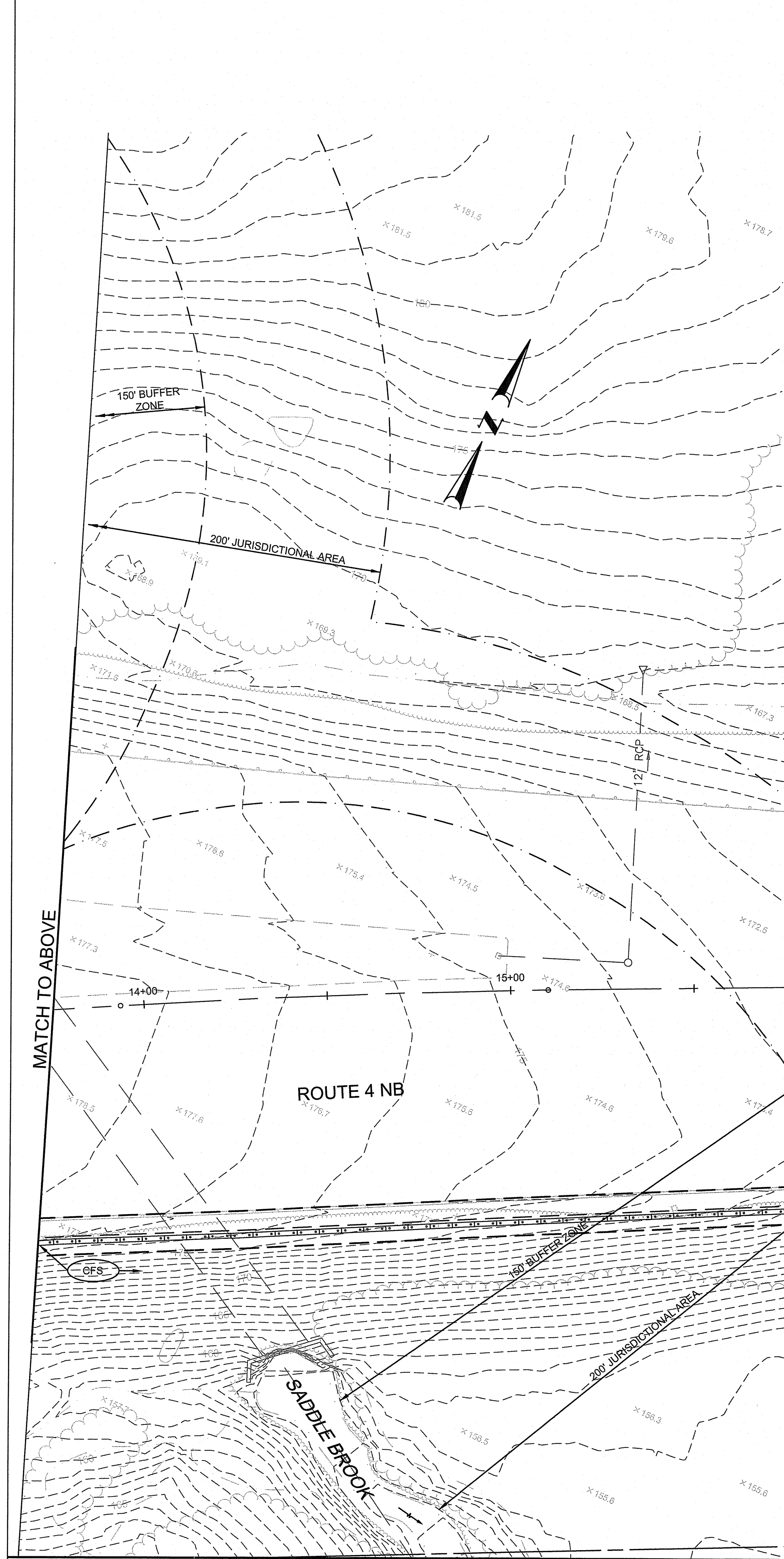
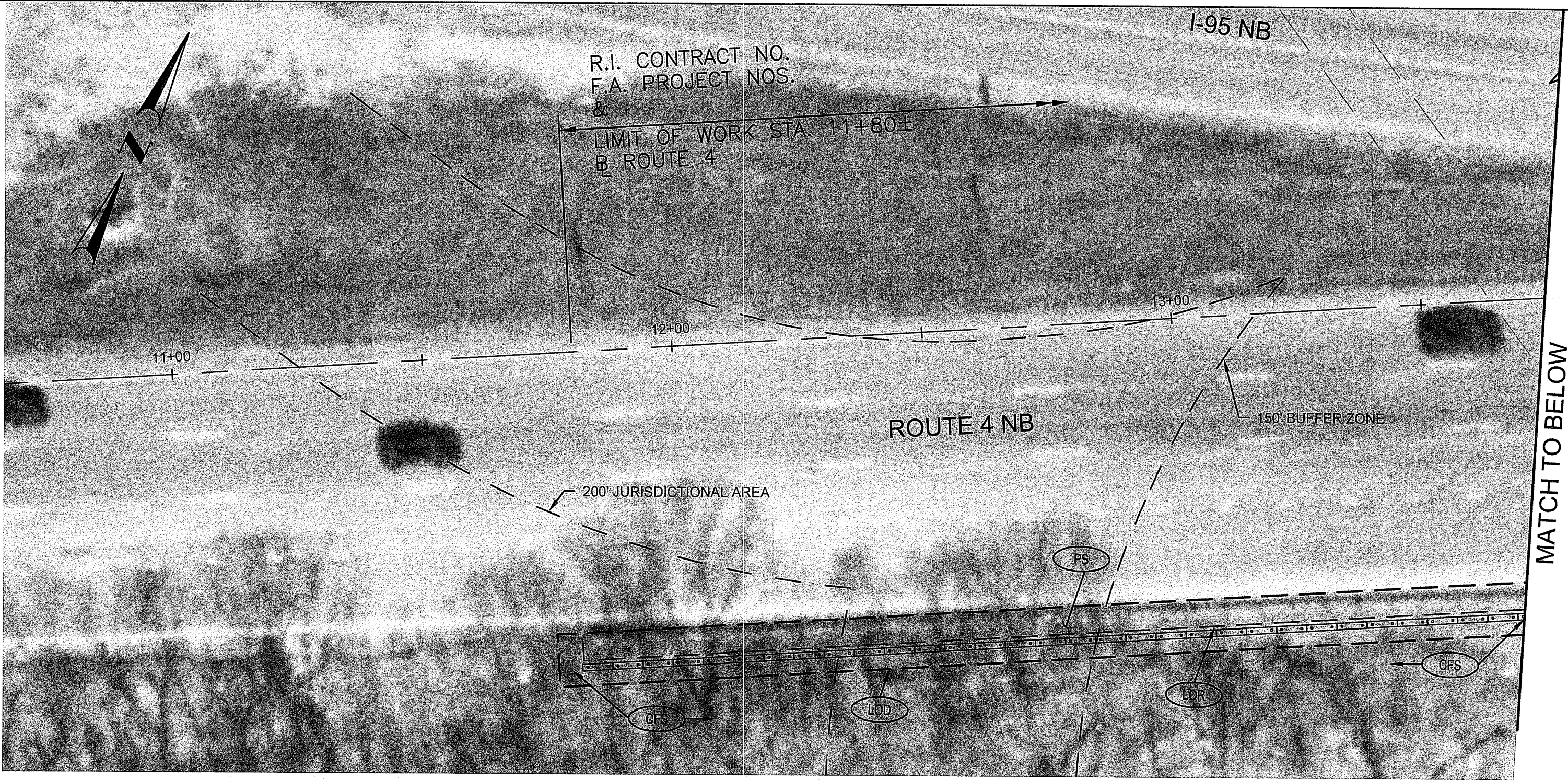
NOTE PER DEM:

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

APPROVED WITH CONDITIONS AS
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DATED: JAN 18 2024 FILE #: 23-0218
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Nancy L. Freeman

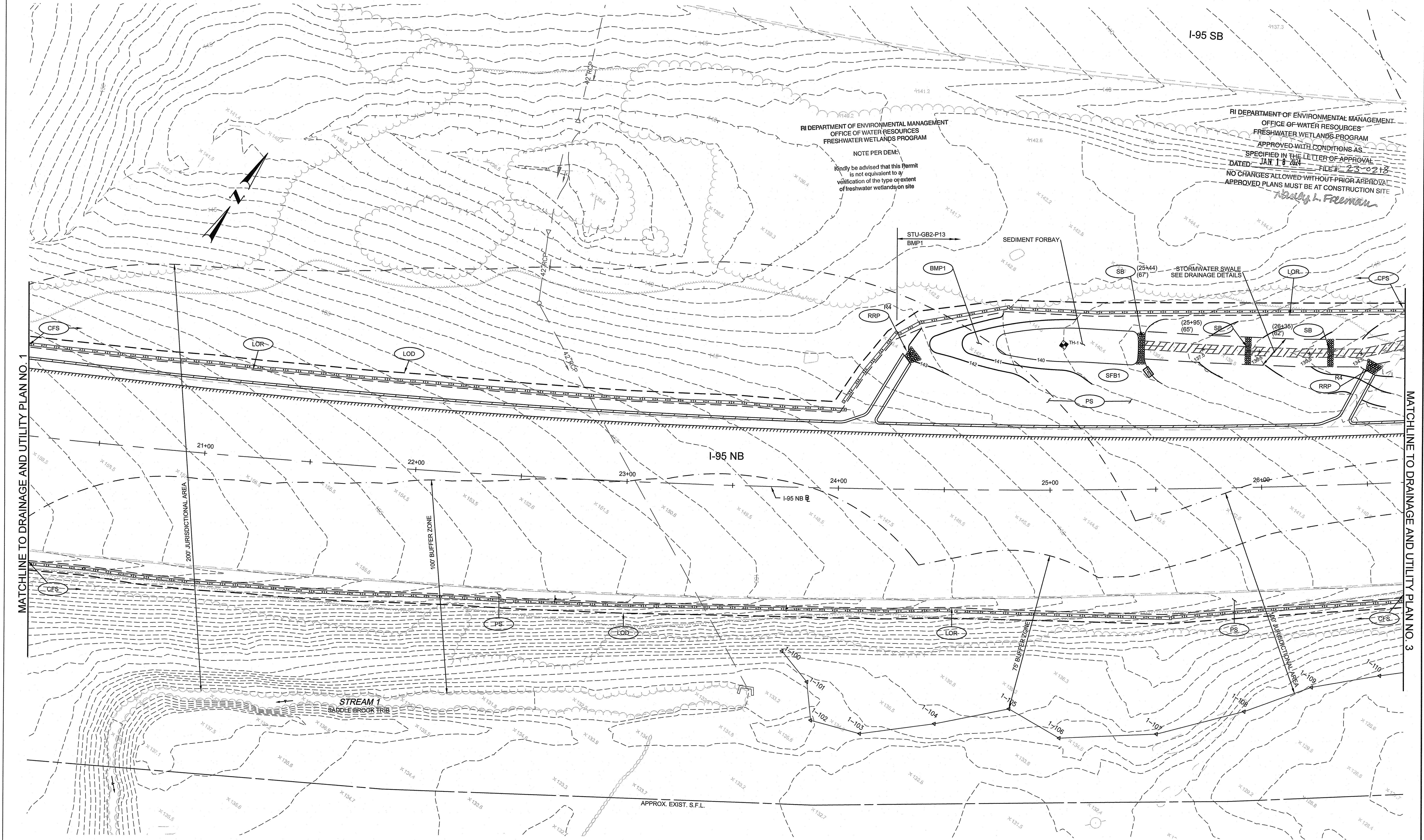


RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

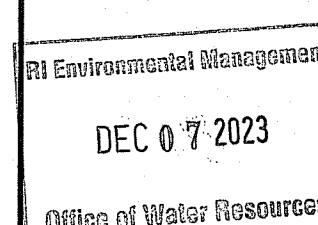
DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 34
OF: 68

REVISIONS					
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE
IMPROVEMENTS
STATEWIDE
RHODE ISLAND
DRAINAGE AND UTILITY PLAN NO. 1



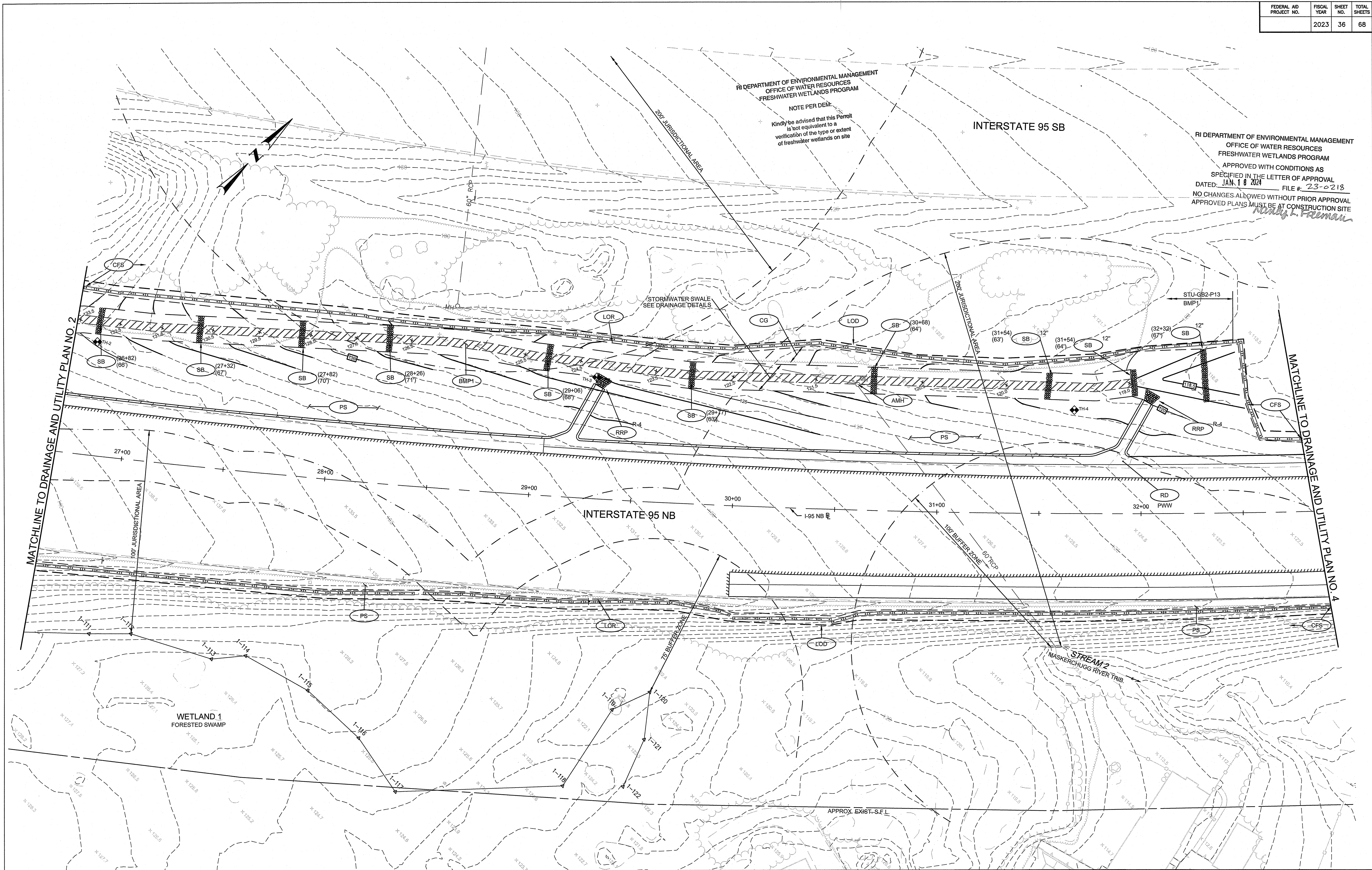
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 35
OF: 68

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REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE
IMPROVEMENTS
STATEWIDE
RHODE ISLAND
DRAINAGE AND UTILITY PLAN NO. 2



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

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

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Emily L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

RI Environmental Management
DEC 07 2023
Office of Water Resources

DESIGNED BY:
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DATE: NOVEMBER, 2023
SHEET: 36
OF: 68

SCALE: 1"=20'					
					
SCALE IN FEET					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE
IMPROVEMENTS

STATEWIDE
RHODE ISLAND

DRAINAGE AND UTILITY PLAN NO. 3

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

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INTERSTATE 95 SB

WETLAND 7
HIGHWAY WETLAND

INTERSTATE 95 NB

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

APPROX. EXIST. S.F.L.



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

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DATE: NOVEMBER, 2023
SHEET: 37
OF: 68

REVISIONS				REVISIONS			
NO.	DATE	BY		NO.	DATE	BY	

2023 ROADWAY DEPARTURE
IMPROVEMENTS
STATEWIDE
RHODE ISLAND
DRAINAGE AND UTILITY PLAN NO. 4

FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	2023	38	68

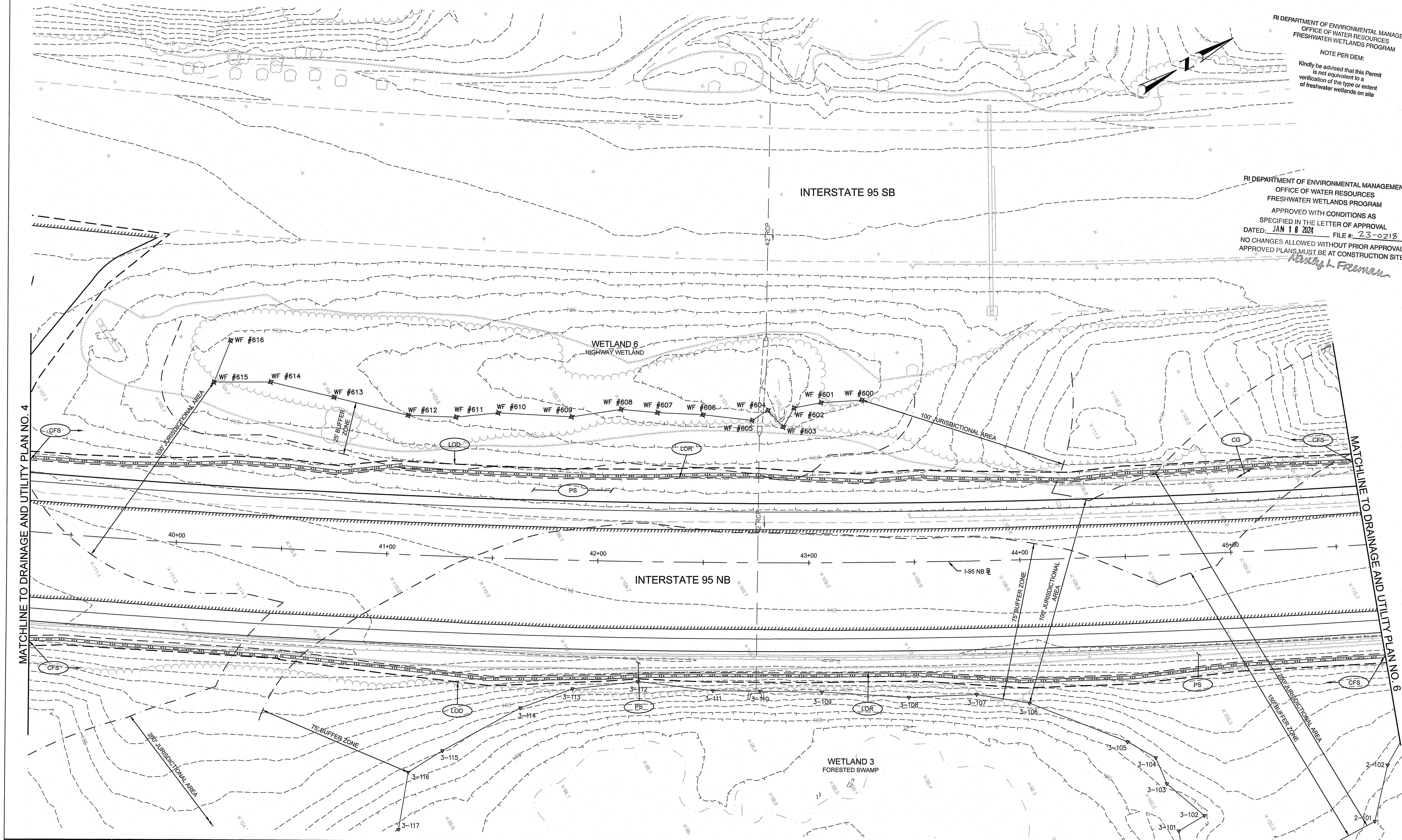
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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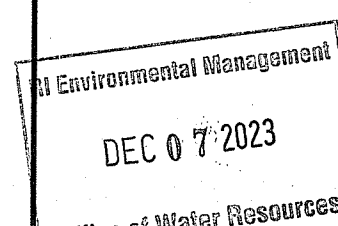
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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Nancy L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 38
OF: 68

SCALE: 1"=20'					
SCALE IN FEET					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE IMPROVEMENTS

STATEWIDE RHODE ISLAND

DRAINAGE AND UTILITY PLAN NO. 5

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

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

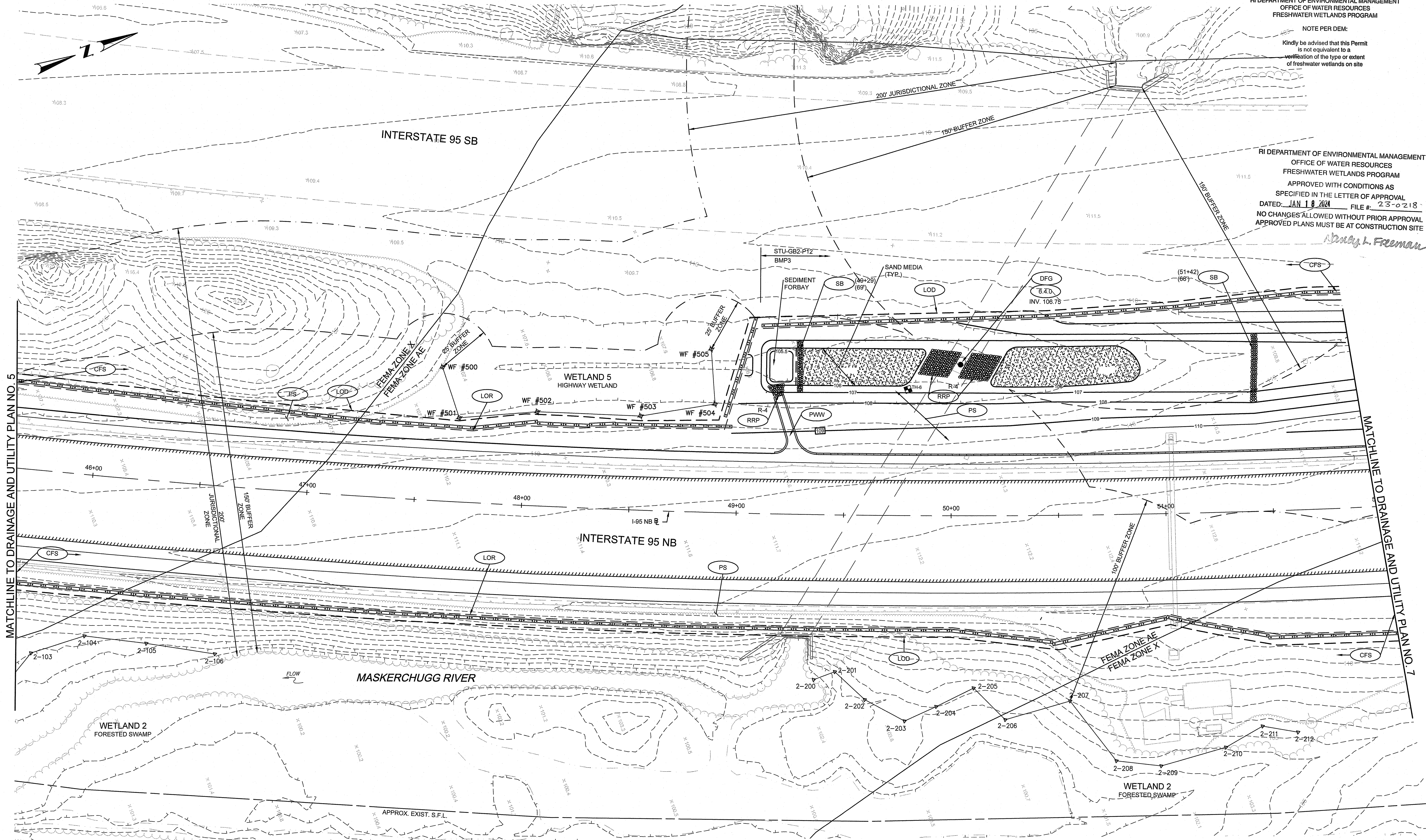
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

DATED: JAN 18 2024 FILE #: 23-0218

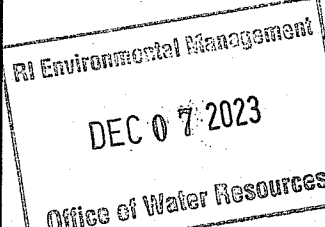
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Abdul L. Freeman



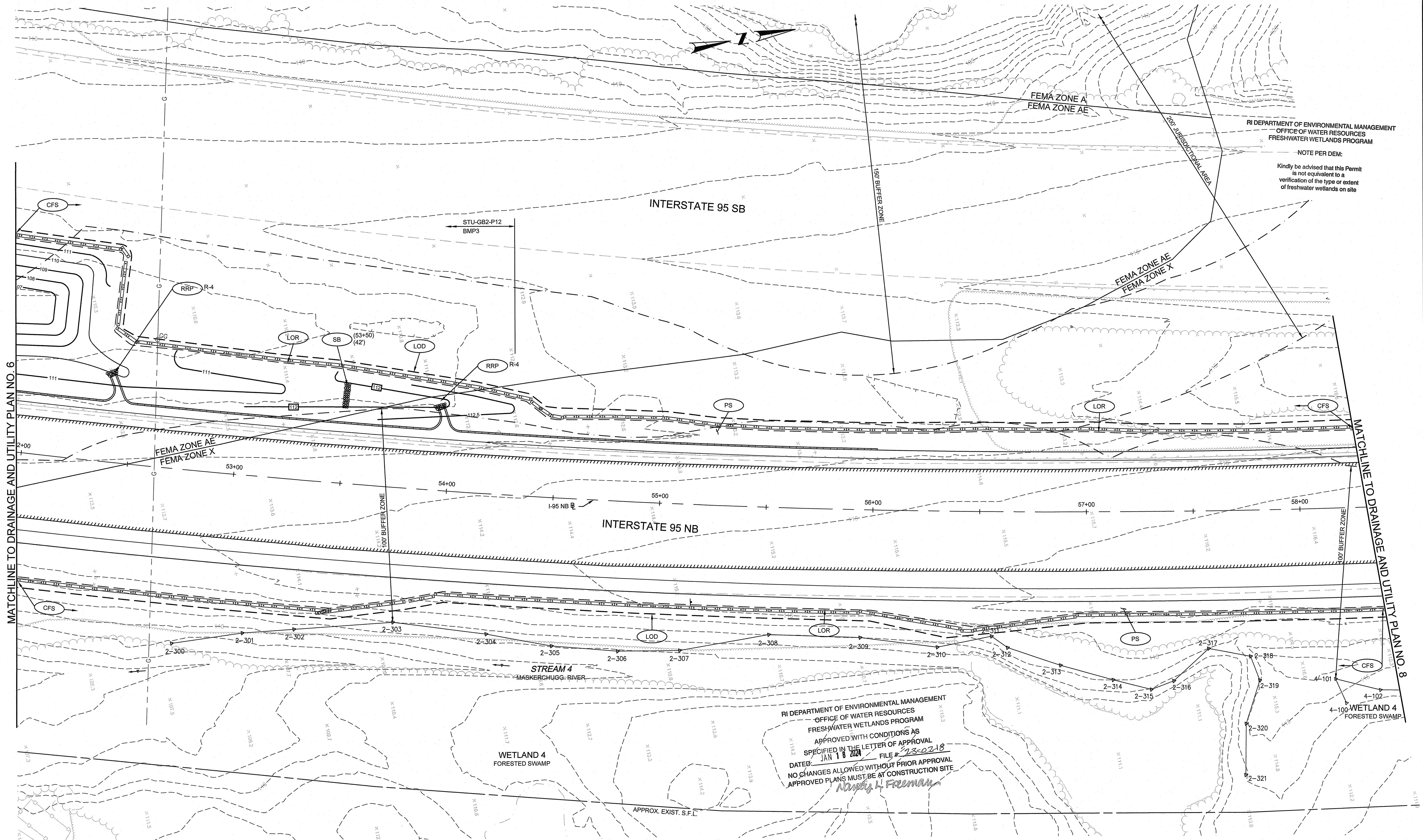
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 39
OF: 68

SCALE: 1"=20'					
SCALE IN FEET					
REVISIONS					
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE IMPROVEMENTS
STATEWIDE
RHODE ISLAND
DRAINAGE AND UTILITY PLAN NO. 6



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

NOTE PER DEM:
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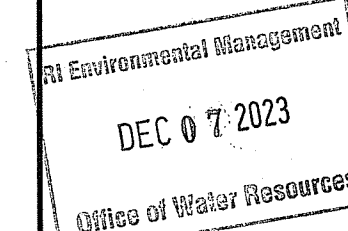
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 18 2024 FILE # 23-0218
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Nancy L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 40
OF: 68

SCALE: 1"=20'					
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2023 ROADWAY DEPARTURE IMPROVEMENTS

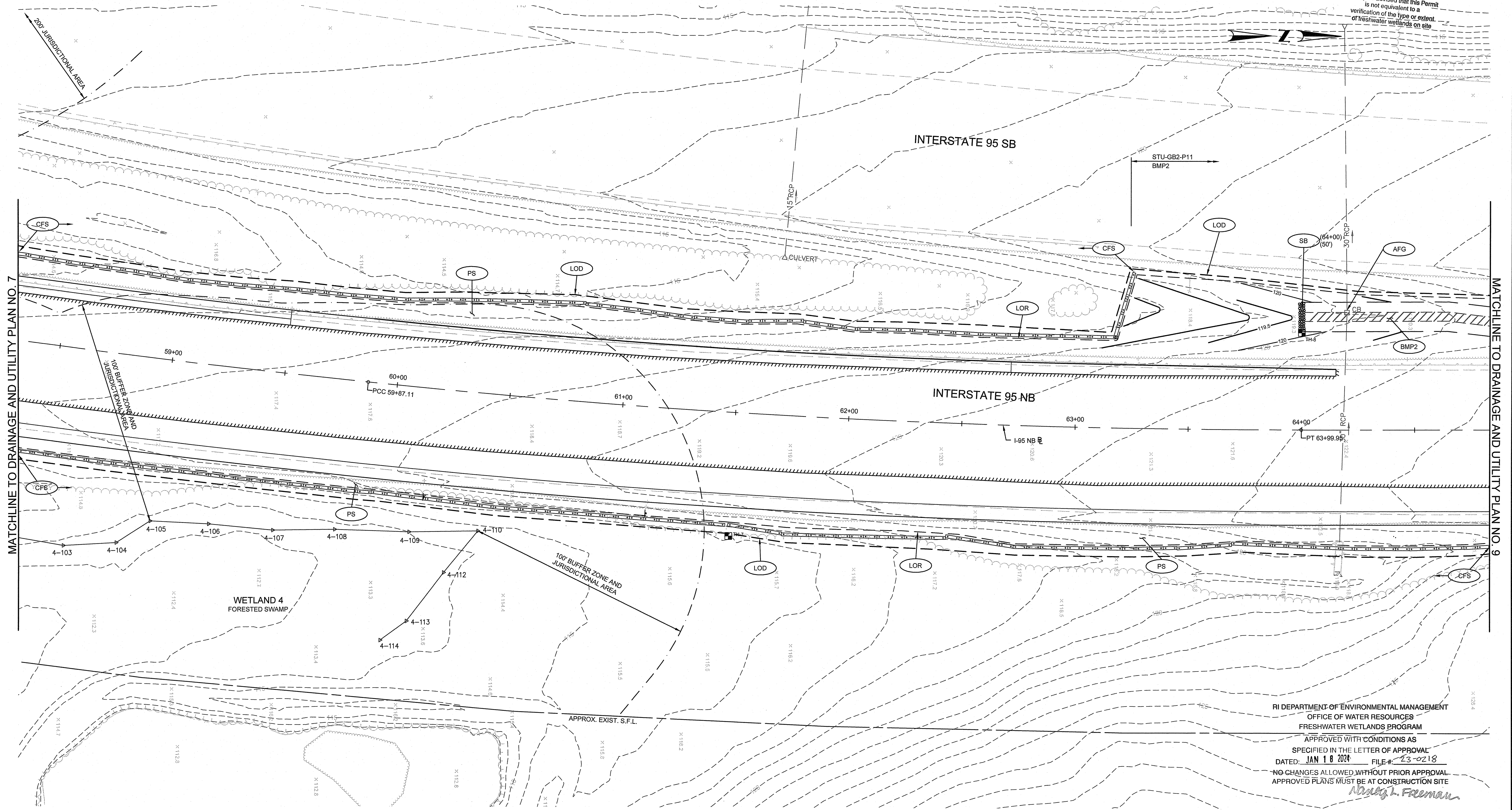
STATEWIDE RHODE ISLAND

DRAINAGE AND UTILITY PLAN NO. 7

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

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

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DATED: JAN 18 2024 FILE # 23-0218

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David L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

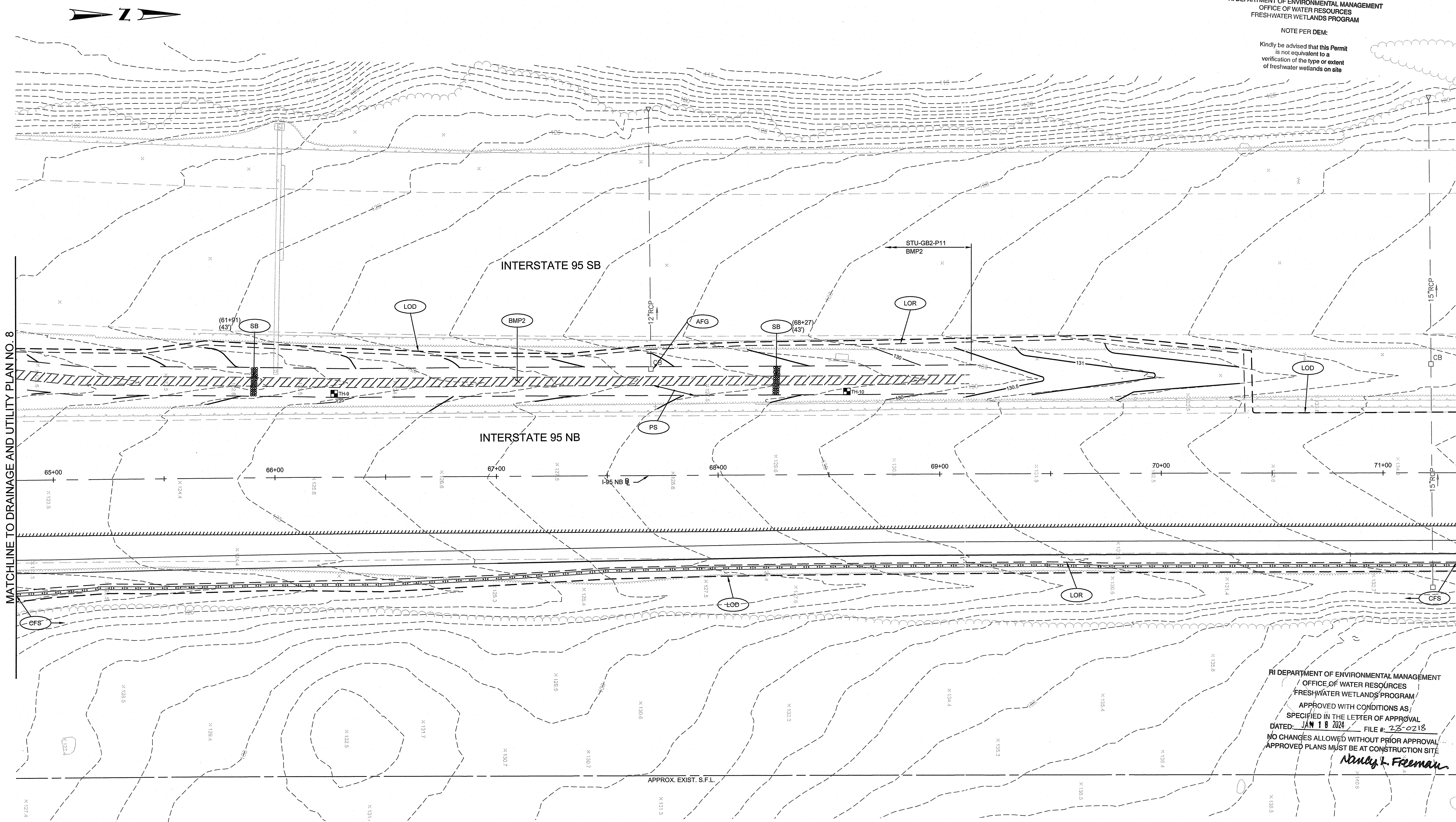
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CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 41
OF: 68

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REVISIONS			
NO.	DATE	BY	NO.

2023 ROADWAY DEPARTURE
IMPROVEMENTS
STATEWIDE
RHODE ISLAND
DRAINAGE AND UTILITY PLAN NO. 8

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

NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site



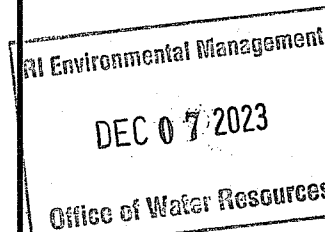
MATCHLINE TO DRAINAGE AND UTILITY PLAN NO. 8

MATCHLINE TO DRAINAGE AND UTILITY PLAN NO. 10


RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 18 2024 FILE #: 23-0218
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy J. Freeman



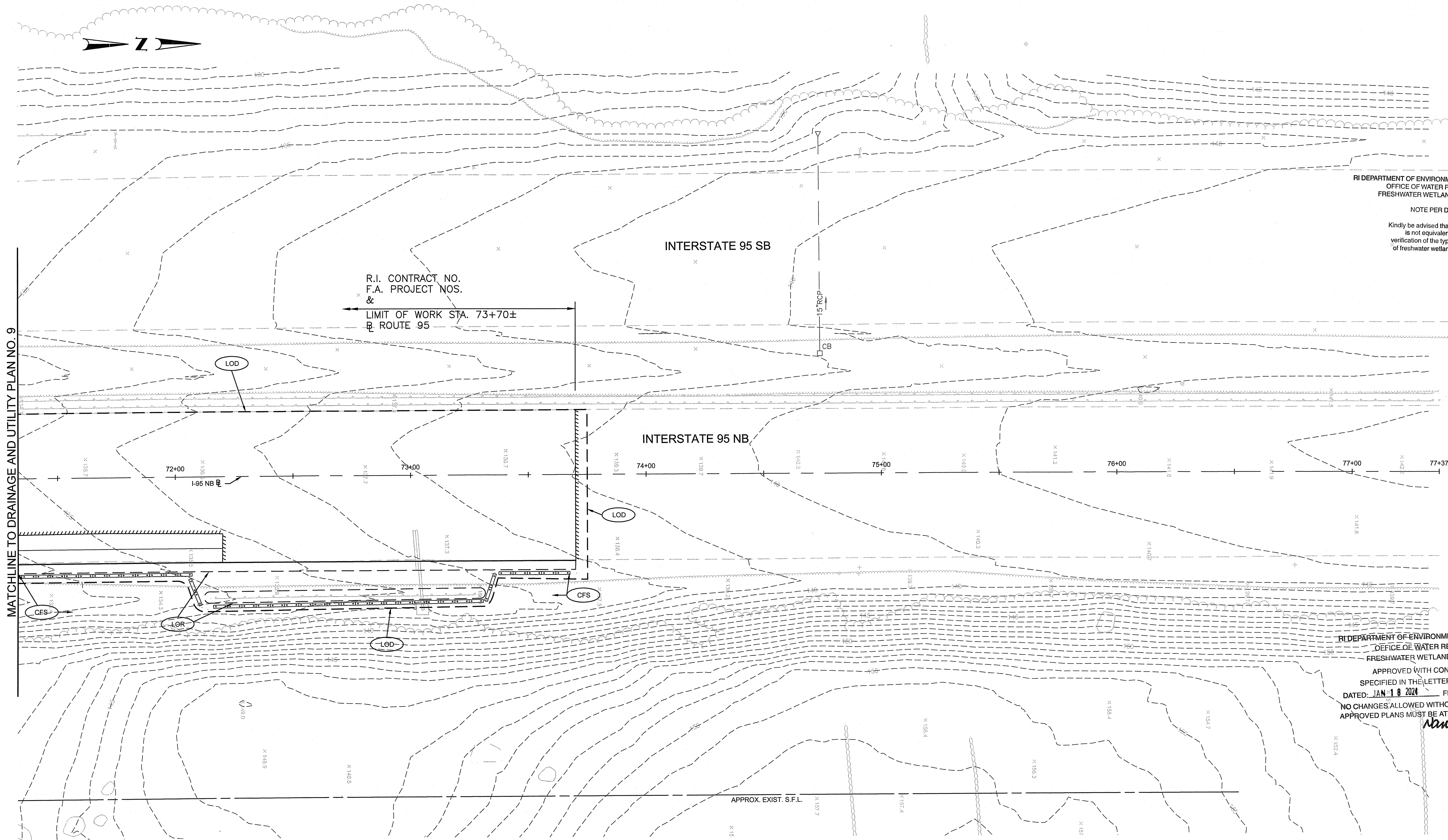
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 42
OF: 68

SCALE: 1"=20'					
					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE IMPROVEMENTS
STATEWIDE
RHODE ISLAND
DRAINAGE AND UTILITY PLAN NO. 9



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM

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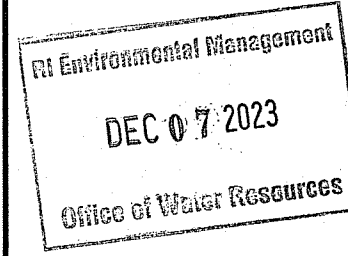
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JAN 18 2024 FILE #: 23-0213
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Nancy L. Freeman



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION



DESIGNED BY:
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DATE: NOVEMBER, 2023
SHEET: 43
OF: 68

SCALE: 1"=20'					
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SCALE IN FEET					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

2023 ROADWAY DEPARTURE
IMPROVEMENTS
STATEWIDE
RHODE ISLAND
DRAINAGE AND UTILITY PLAN NO. 10

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.
- CARE SHALL BE USED DURING INSTALLATION OF THE SAND FILTERS AND ENGINEERED SOIL MEDIA MATERIALS, TO MINIMIZE COMPACTION YET STILL PROVIDE A STABLE ENVIRONMENT. LIGHT EQUIPMENT AND CONSTRUCTION TECHNIQUES SHOULD BE USED TO ACHIEVE NO GREATER THAN AN 85% COMPACTION, STANDARD PROCTOR ASTM D968.
- ENGINEERED SOIL MEDIA 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.

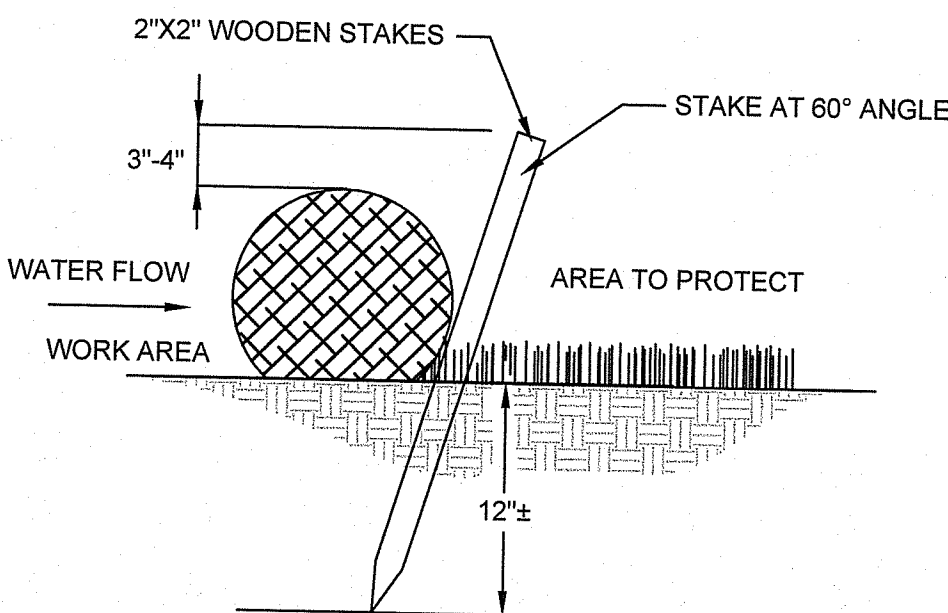
STORMWATER MAINTENANCE NOTES

- 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 1/2 INCH RAINFALL OR MORE IN A 24-HOUR PERIOD, AND IN ACCORDANCE WITH THE PROJECTS SOIL EROSION & SEDIMENT CONTROL (SESC) PLAN.

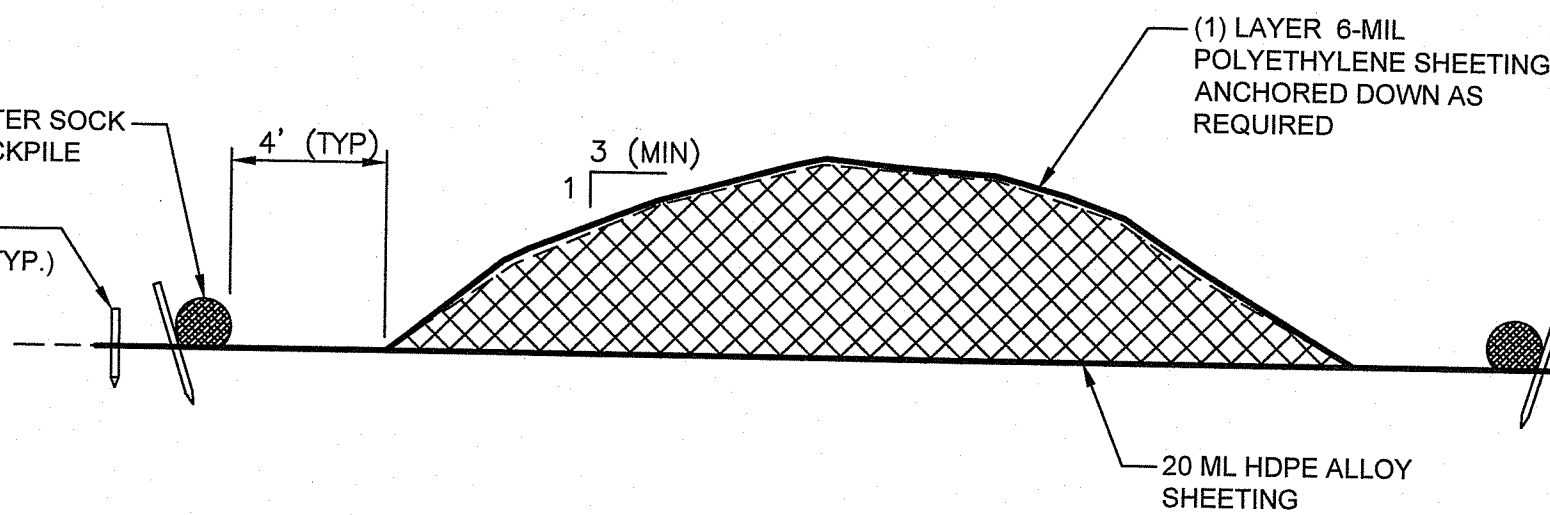
- UPON COMPLETION OF PROJECT CONSTRUCTION, AND PRIOR TO VACATING THE SITE, THE CONTRACTOR SHALL CONDUCT A FINAL INSPECTION AND CLEANING OF THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES.
- AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE ENGINEER, ALL MAINTENANCE OF THE DRAINAGE 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.



- NOTES:
- COMPOST FILTER SOCK MAY BE REPLACED WITH STRAW WATTLE OR APPROVED EQUAL. ALL EQUALS SHALL MEET, INSTALLED AND MAINTAINED WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, ALL ADDENDUM. APPROVED EQUALS TO BE SUBMITTED TO THE ENGINEER PRIOR TO INSTALLATION.

8-INCH COMPOST FILTER SOCK

NOT TO SCALE



SOIL STOCKPILE DETAIL

NOT TO SCALE

NOTE:
THE CONTRACTOR SHALL COVER THE SOIL STOCKPILE WITH 6-MIL POLYETHYLENE SHEETING AND SECURE COVER AT THE END OF EACH WORK DAY.

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 UPGRADIENT AREAS DISTURBED BY CONSTRUCTION BEFORE RUNOFF CAN BE ACCEPTED INTO THE STORMWATER FACILITY.

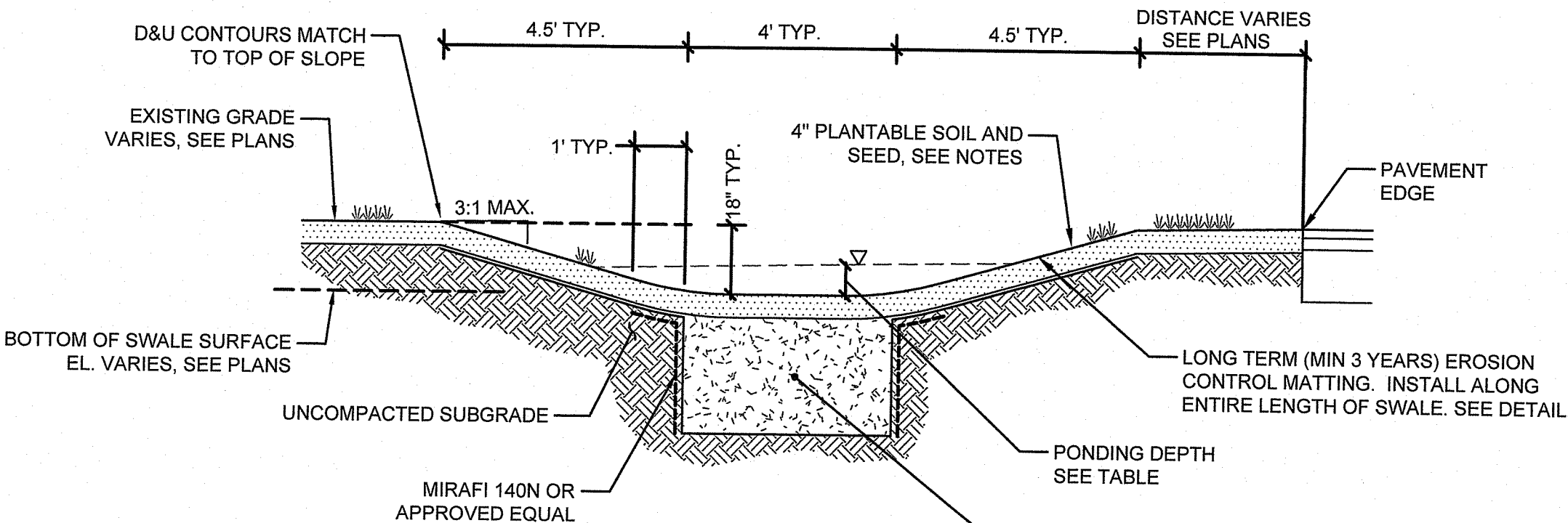
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

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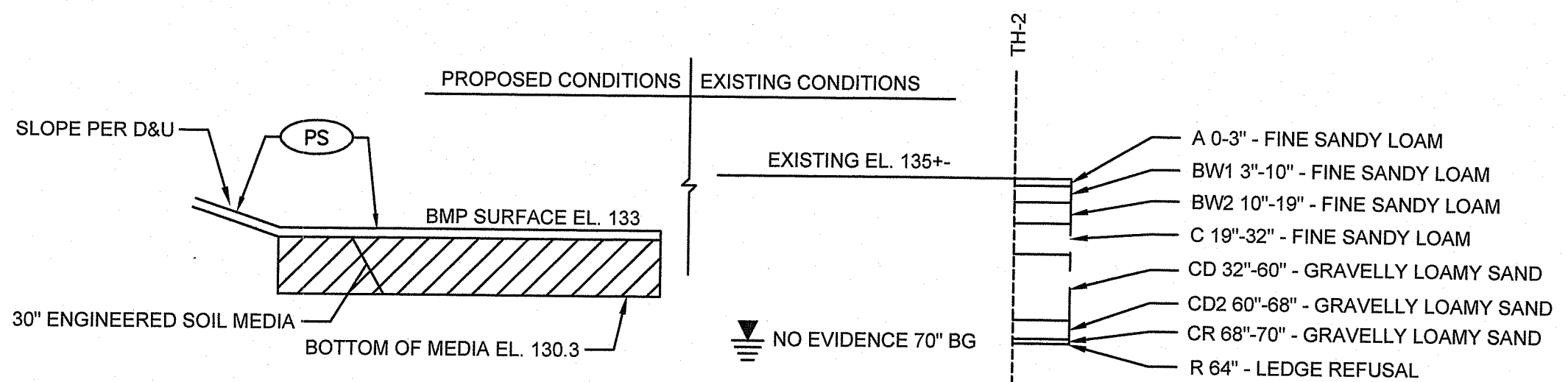
BMP-1 / STU-GB2-P13		
STORM	PONDING EL.	PONDING DEPTH
WQ	118.89	0.0
1 YR	119.58	0.08
2 YR	119.58	0.40
10 YR	120.14	0.64
25 YR	120.27	0.77
100 YR	120.43	0.93

BMP-2 / STU-GB2-P11		
STORM	PONDING EL.	PONDING DEPTH
WQ	118.28	0.0
1 YR	118.62	0.0
2 YR	119.66	0.66
10 YR	120.27	1.27
25 YR	120.38	1.38
100 YR	120.57	1.57

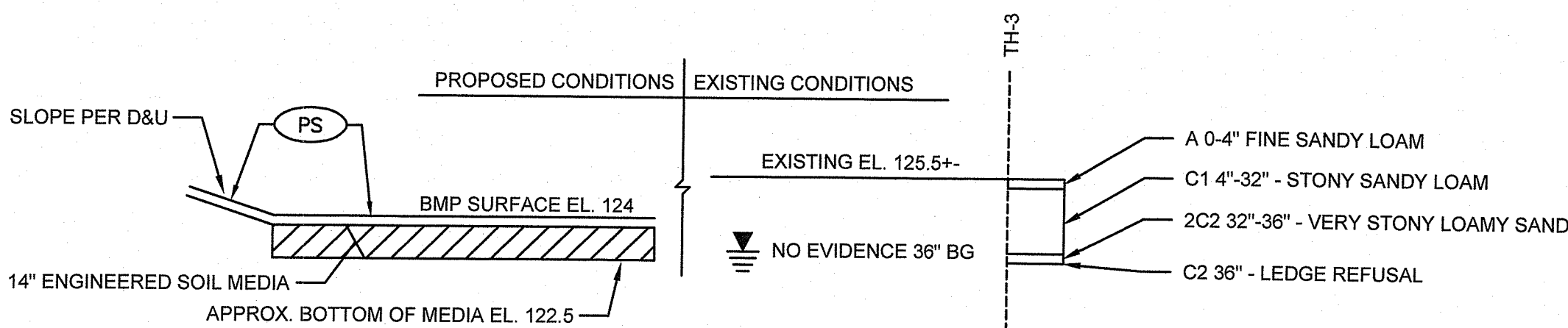


BMP-1 / STU-GB2-P13
BMP-2 / STU-GB2-P11
TYPICAL INFILTRATION SWALE DETAIL

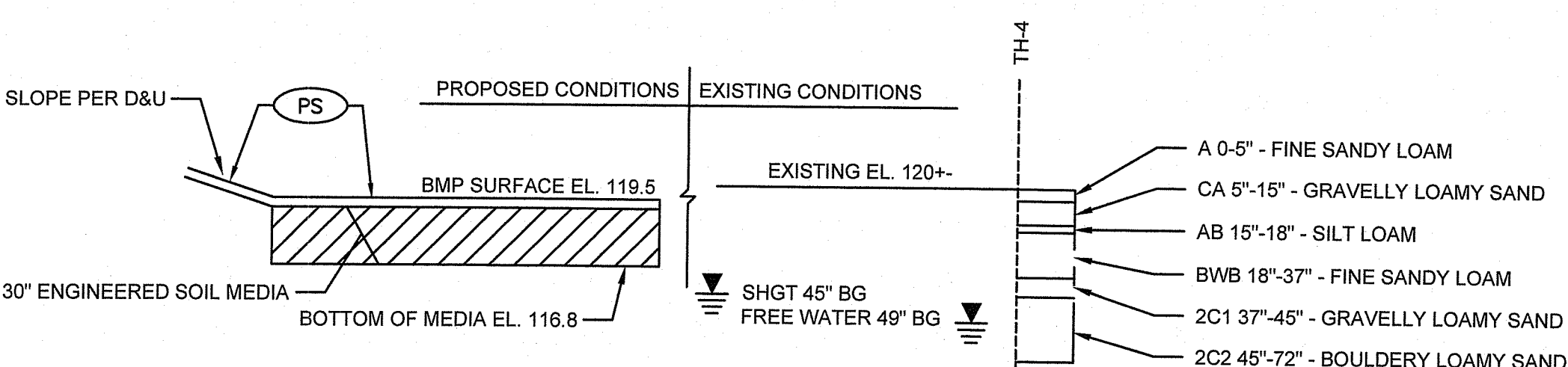
NOT TO SCALE



TH-1 - STA 27+00



TH-2 - STA 29+30



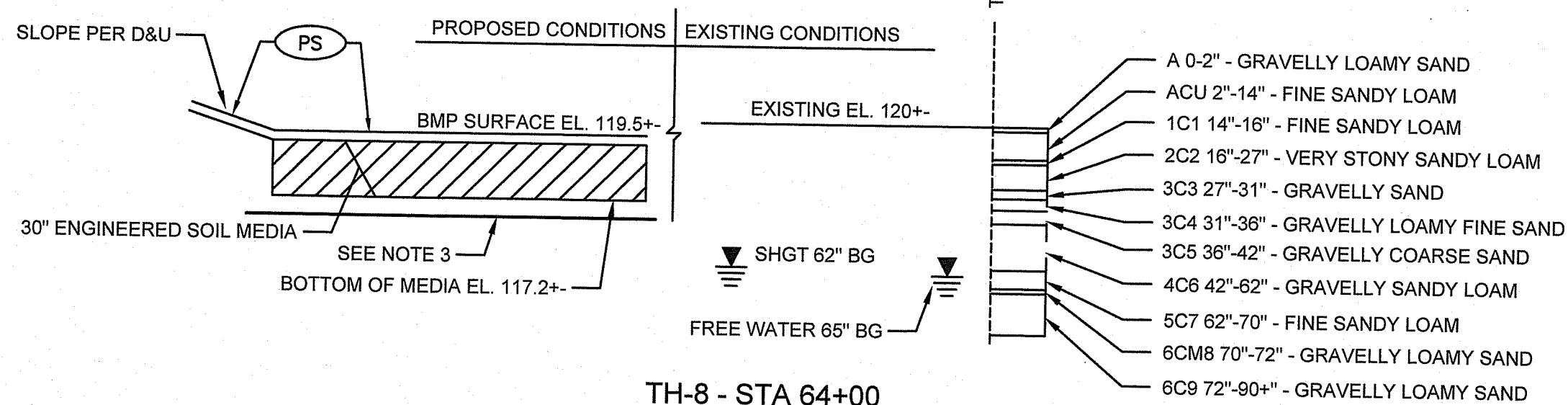
TH-3 - STA 31+70

NOTES:

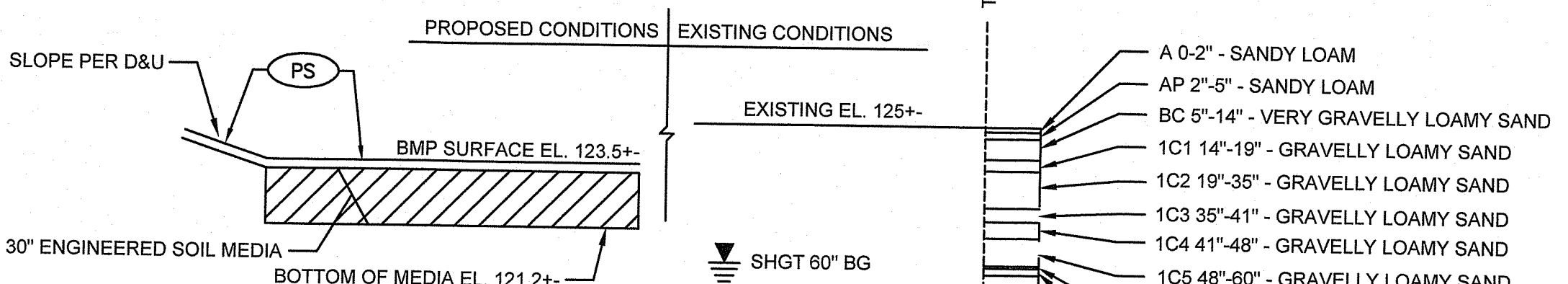
- CONDITIONS SHOWN ARE BASED ON THE EXISTING INFORMATION AND PROPOSED STORMWATER BEST MANAGEMENT PRACTICE (BMP) IN GENERAL RELATION TO THE CONDUCTED TEST HOLE AND SOIL EVALUATIONS.
- SOIL EVALUATIONS PERFORMED BY VHB IN MARCH 2023.
- THERE WAS NO EVIDENCE OF SEASONAL HIGH GROUNDWATER TABLE (SHGT) AT EITHER TH-2 OR TH-3.
- APPROXIMATE SHGT 45-INCHES BELOW GRADE (BG) AT TH-4.
- FREE WATER WAS ENCOUNTERED AT 49-INCHES BELOW GRADE AT TH-4 IN MARCH 2023.
- LEDGE OBSERVED AT 36-INCHES BG AT TH-3 AND ANTICIPATED IN THE VICINITY. THE CONTRACTOR SHALL INSTALL THE ENGINEERED SOIL MEDIA TO THE MAXIMUM EXTENT BASED ON FIELD CONDITIONS, OR TO 30-INCHES PER TYPICAL DETAIL.

BMP-1 CONDITIONS

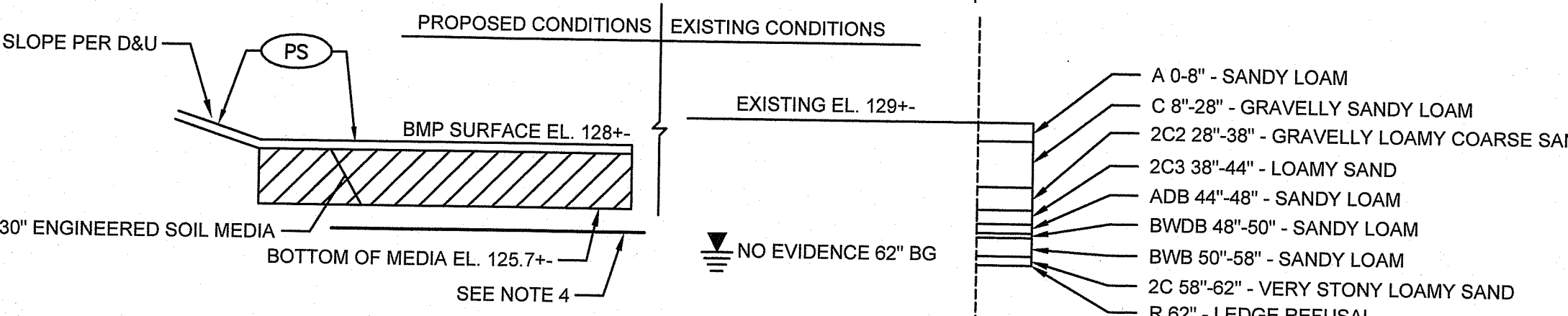
SCALE: 1" = 5'



TH-8 - STA 64+00



TH-9 - STA 66+30



TH-10 - STA 68+60

NOTES:

- CONDITIONS SHOWN ARE BASED ON THE EXISTING INFORMATION AND PROPOSED STORMWATER BEST MANAGEMENT PRACTICE (BMP) IN GENERAL RELATION TO THE CONDUCTED SOIL EVALUATIONS.
- SOIL EVALUATIONS PERFORMED BY VHB IN MARCH 2023. THE SOIL EVALUATIONS ARE PROVIDED IN THE CONTRACT DOCUMENTS AS AN ATTACHMENT. THE SOIL INFORMATION HEREIN ARE A SUMMARY ONLY AND THE DATA IN THE SOIL EVALUATIONS SHALL.
- POORLY DRAINAGE SOIL WAS IDENTIFIED AT TH-8 AND LABELED AS SOIL HORIZON '3C4'. THE CONTRACTOR SHALL REMOVE SOILS THROUGH THE 3C4 SOIL HORIZON AND 6-INCHES BELOW THIS EXTENT TO IMPROVE INFILTRATION CONDITIONS THROUGHOUT THE LIMITS OF BMP-2. AASHTO M-6 SAND SHALL BE USED TO BACKFILL THE OVER EXCAVATION.
- POORLY DRAINAGE SOIL WAS IDENTIFIED AT TH-10 AND LABELED AS SOIL HORIZON 'ABD' AND 'BWB'. THE CONTRACTOR SHALL REMOVE SOILS THROUGH THESE SOIL HORIZONS AND 6-INCHES BELOW THESE EXTENTS TO IMPROVE INFILTRATION CONDITIONS THROUGHOUT THE LIMITS OF BMP-2. AASHTO M-6 SAND SHALL BE USED TO BACKFILL THE OVER EXCAVATION.

BMP-2 CONDITIONS

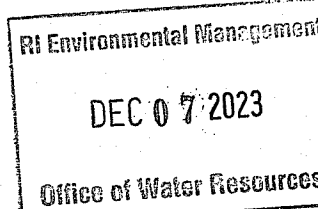
SCALE: 1" = 5'

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DEPARTMENT OF TRANSPORTATION



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CHECKED BY:
DATE: NOVEMBER, 2023
SHEET: 44
OF: 68

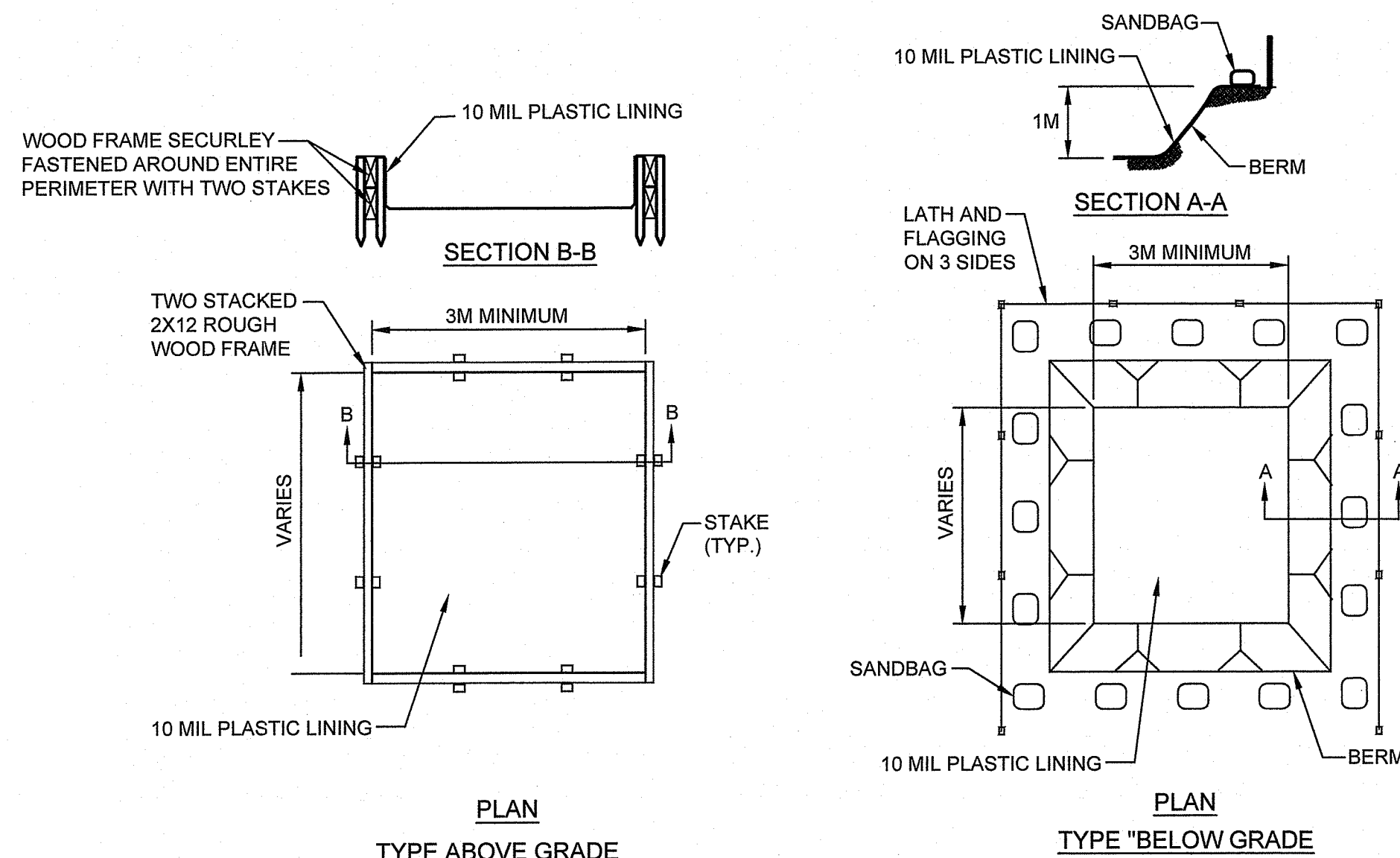
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2023 ROADWAY DEPARTURE
IMPROVEMENTS

STATEWIDE

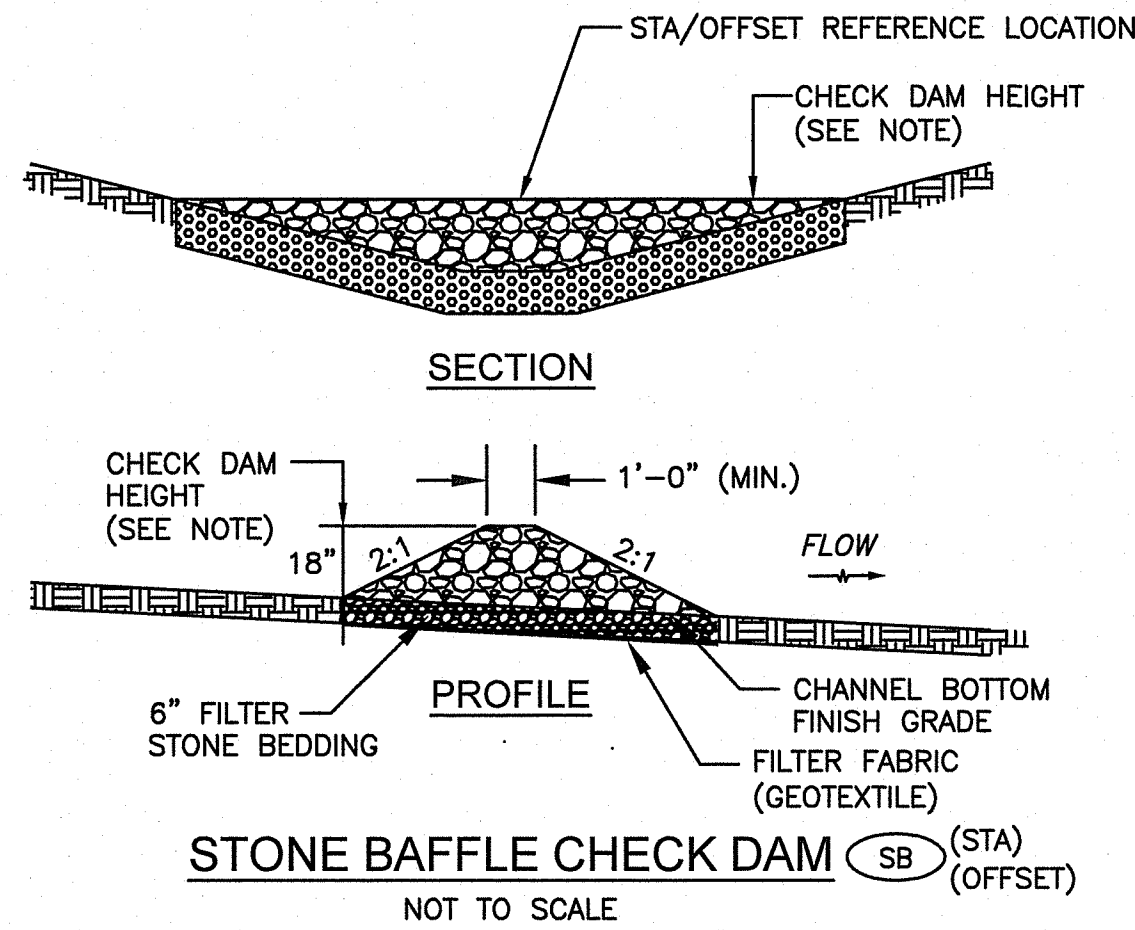
RHODE ISLAND

DRAINAGE DETAILS NO. 1

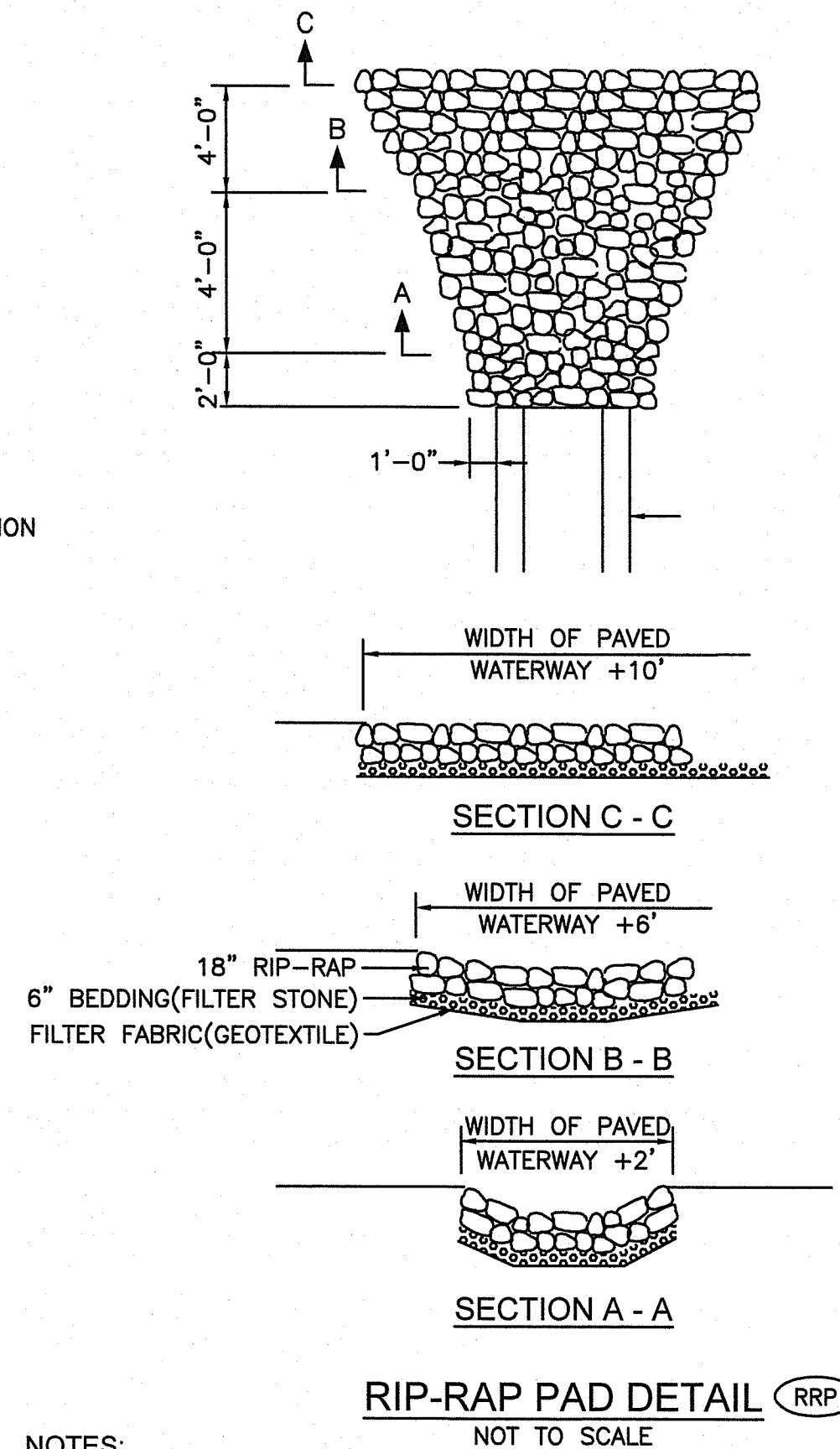
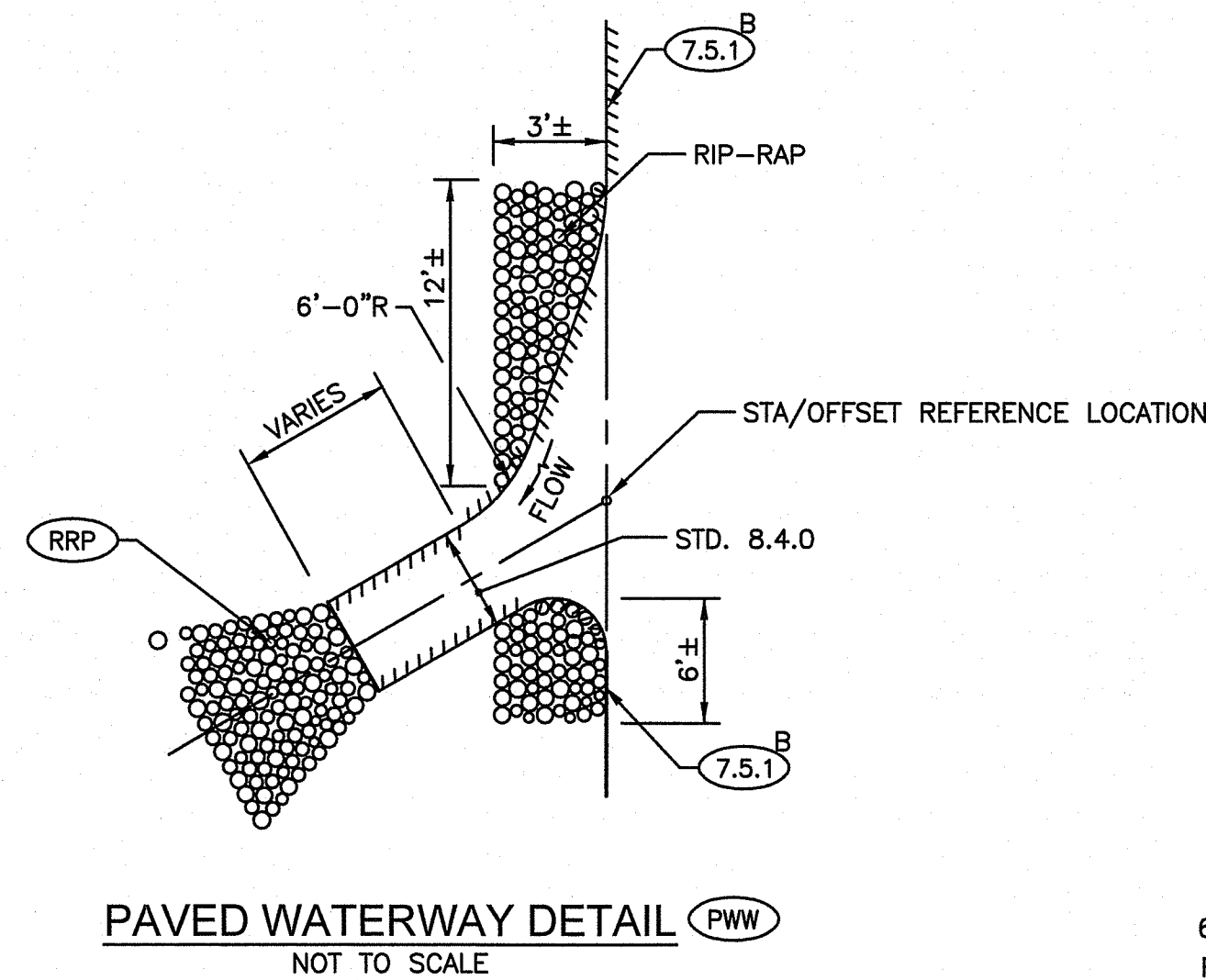


- SELF-INSTALLED ABOVE GRADE WASHOUTS ON LARGER SITES MUST BE AT LEAST 10 FEET BY 10 FEET LONG AND SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE EXPECTED TO BE GENERATED IN BETWEEN CLEANOUT PERIODS. WASHOUTS AT SMALLER SITES CAN BE SMALLER ACCORDING TO THE EXPECTED CAPACITY NEEDED. INCLUDE A MINIMUM OF 12-INCH FREEBOARD IN THE SIZING CALCULATIONS. ONE CAN MAKE THE STRUCTURES FROM STAKED STRAW BALES OR 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



- NOTES:
- 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.

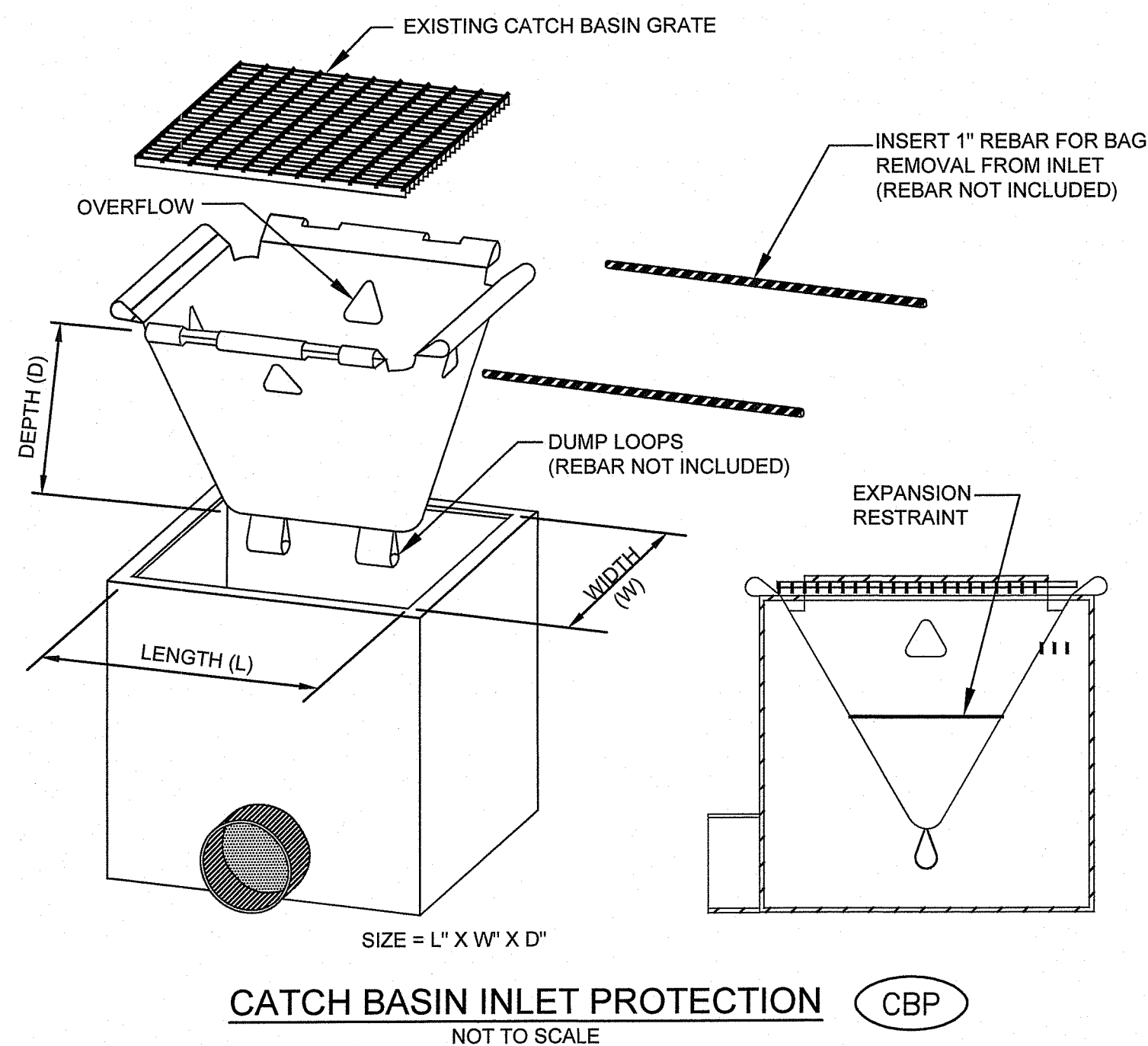


- NOTES:
- RIP-RAP AND BEDDING SHALL BE IN ACCORDANCE WITH SECTION M.10 OF THE RI STD. SPECIFICATIONS FOR BRIDGE AND HIGHWAY. RIP-RAP SHALL BE MODIFIED NSA NO. R-4, BEDDING SHALL BE MODIFIED NSA NO. FS-2.
 - DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
 - UNLESS OTHERWISE SPECIFIED,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

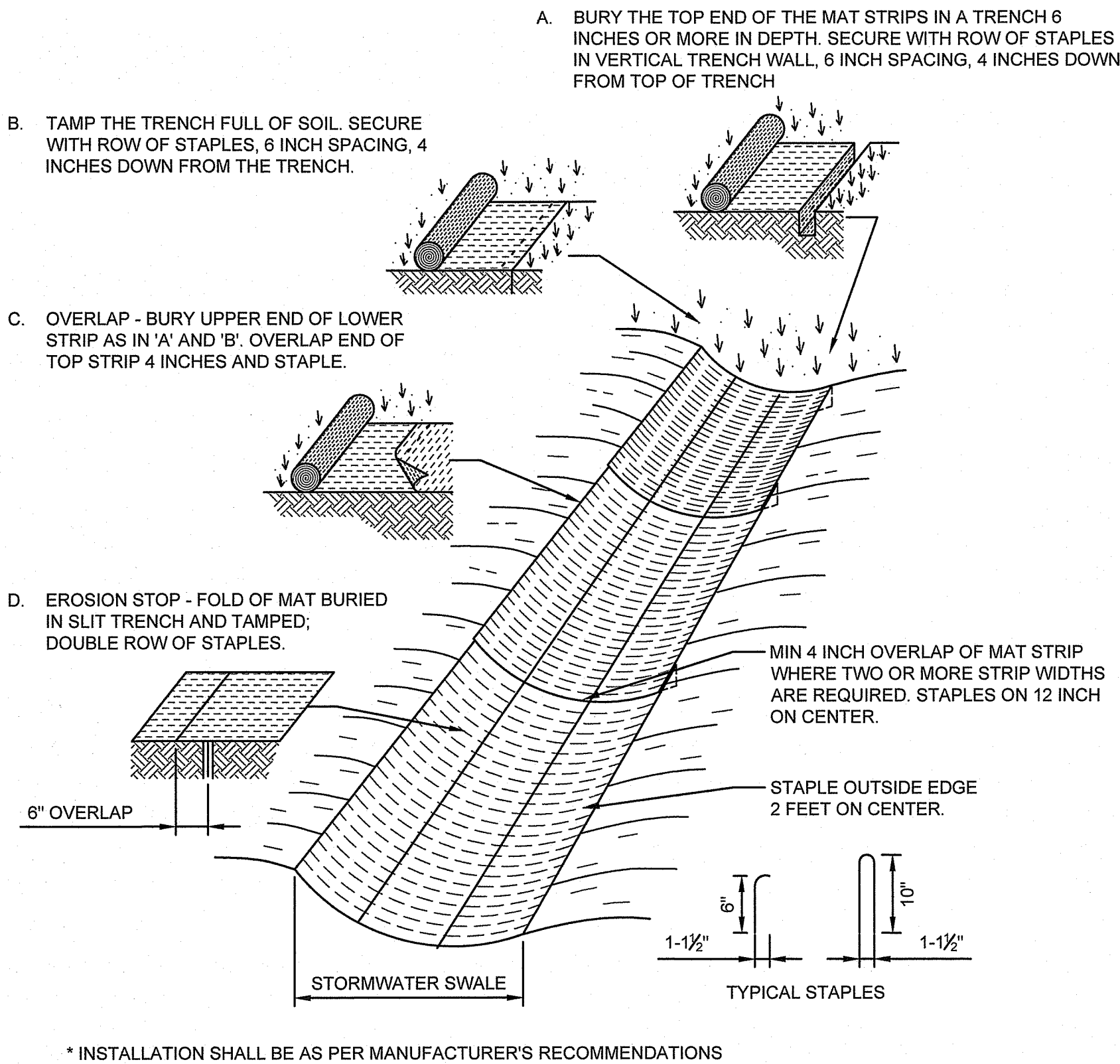
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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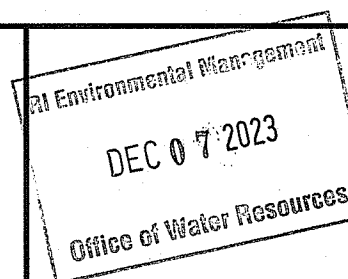
CATCH BASIN INLET PROTECTION (CBP)
NOT TO SCALE



EROSION CONTROL MATTING - SWALE INSTALLATION
NOT TO SCALE



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

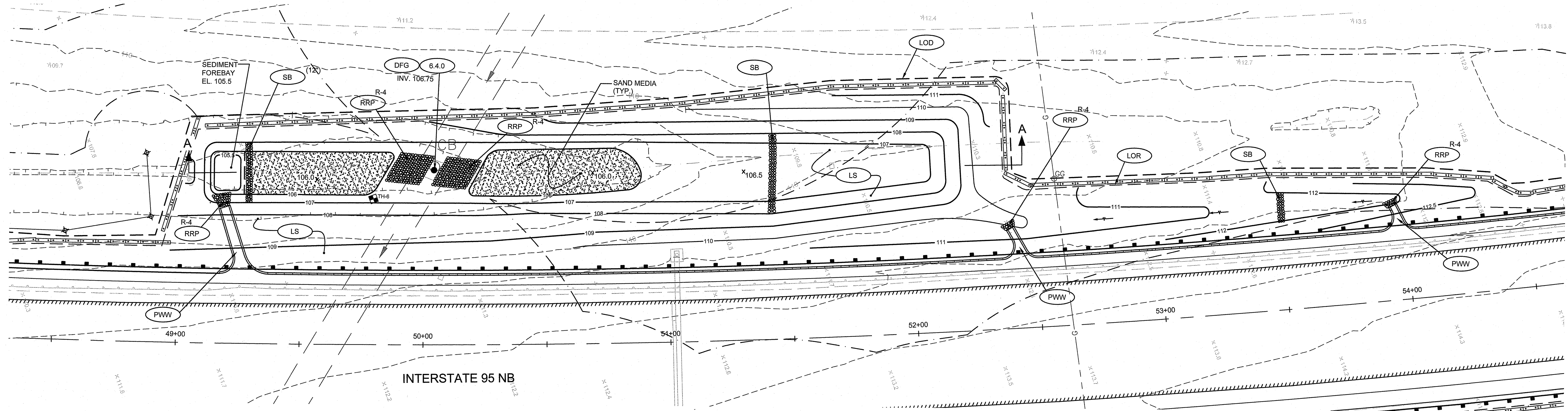


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2023 ROADWAY DEPARTURE
IMPROVEMENTS

DRAINAGE DETAILS NO. 2

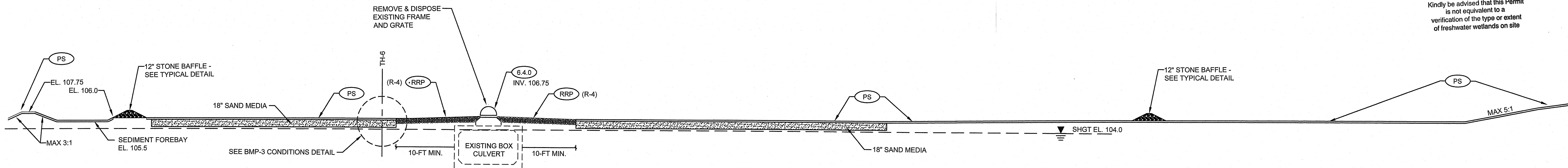


SAND FILTER (BMP-3 / STU-GB2-P12)
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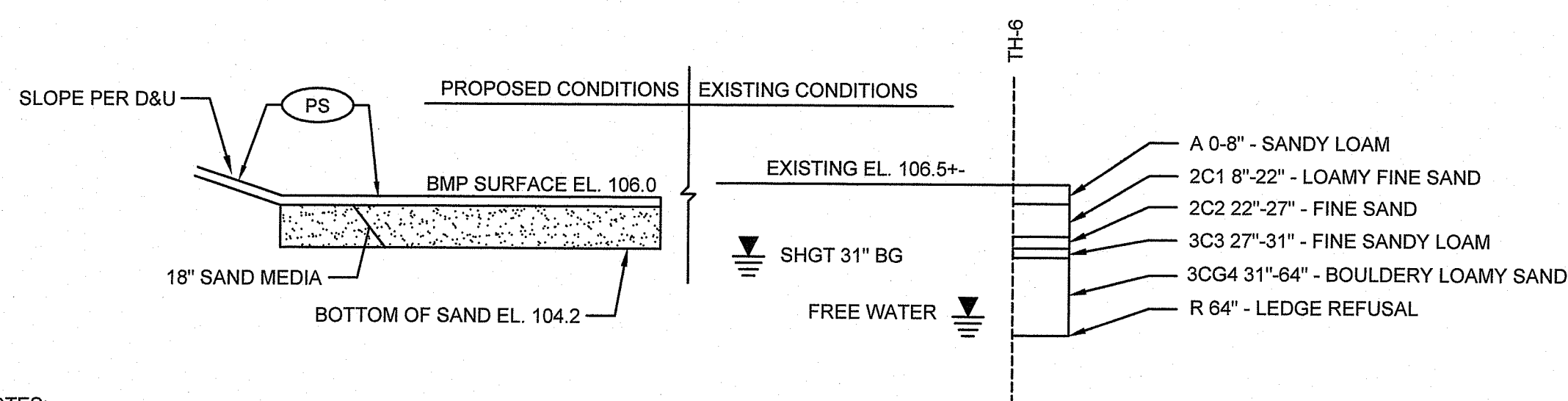
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SECTION A - A
SCALE: 1" = 10'



- NOTES:
1. SOIL EVALUATIONS PERFORMED BY VHB IN MARCH 2023.
 2. APPROXIMATE SEASONAL HIGH GROUNDWATER TABLE (SHGT) AT 31-INCHES BELOW GRADE (BG).
 3. FREE WATER OBSERVED AT 58-INCHES BELOW GRADE ON MARCH 20, 2023.

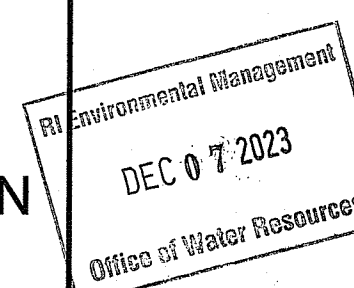
BMP-3 CONDITIONS
SCALE: 1" = 5'

BMP-3 / STU-GB2-P12		
STORM	PONDING EL.	PONDING DEPTH
WQ	106.15	0.15
1 YR	106.33	0.33
2 YR	106.58	0.58
10 YR	106.93	0.93
25 YR	107.12	1.12
100 YR	107.52	1.52

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STATEWIDE

2023 ROADWAY DEPARTURE
IMPROVEMENTS

RHODE ISLAND

DRAINAGE DETAIL NO. 3