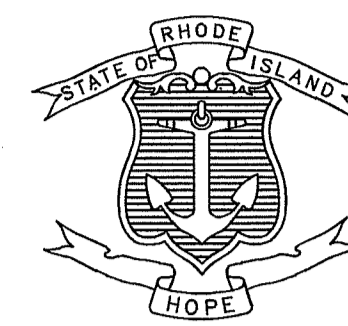


FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI			1	17

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD SYMBOLS & LEGEND
3	STANDARD NOTES - 1
4	STANDARD NOTES - 2
5	JOB SPECIFIC SYMBOLS, LEGEND, & NOTES
6	EXISTING CONDITIONS PLAN
7	SOIL EROSION AND SEDIMENT CONTROL PLAN
8	OVERALL SITE PLAN
9	KEY PLAN
10	SHEET 1 - PLAN AND PROFILE
11	SHEET 2 - PLAN AND PROFILE 1
12	SHEET 2 - PLAN AND PROFILE 2
13	SHEET 3 - PLAN AND PROFILE
14	STORMWATER BASIN PLAN
15	DETAILS - 1
16	DETAILS - 2
17	EASEMENT PLAN

STATE OF RHODE ISLAND



DEPARTMENT OF TRANSPORTATION

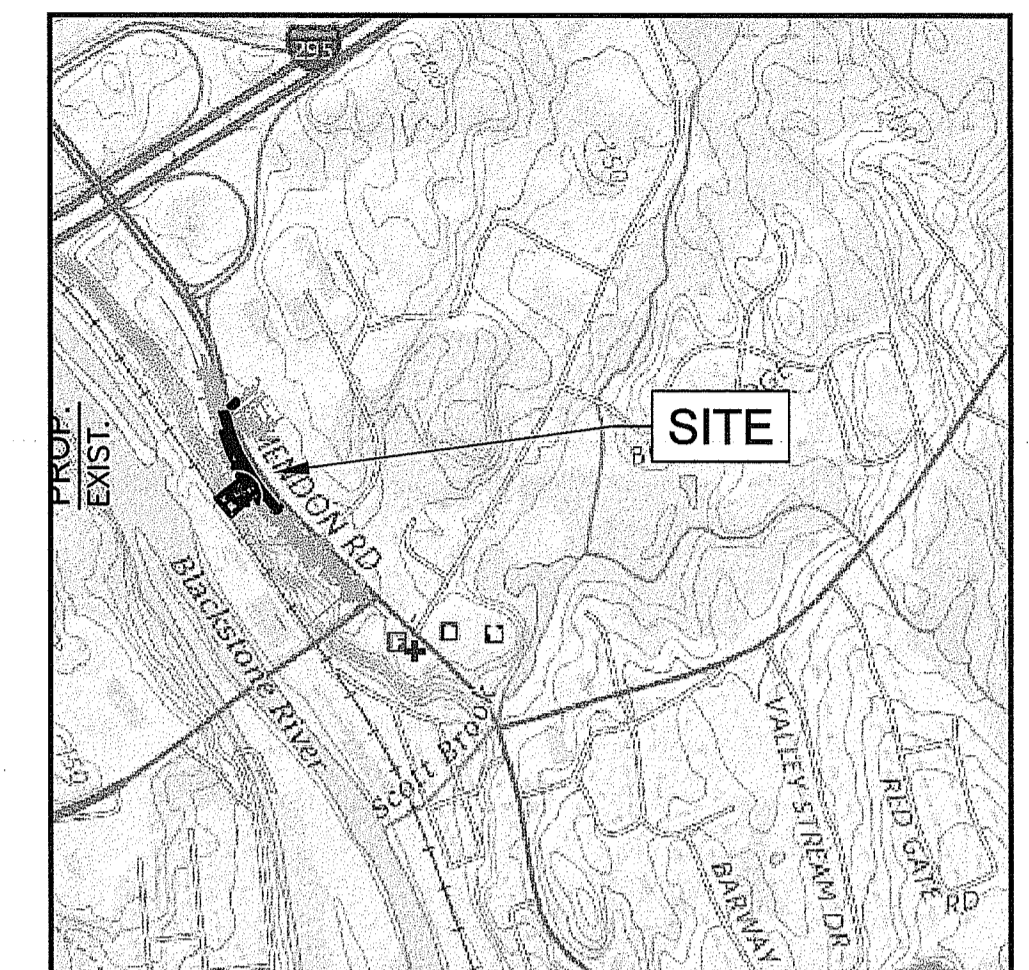
PLAN AND DETAILS OF PROPOSED STORMWATER MANAGEMENT SYSTEM

MENDON ROAD

PROJECT LIMITS

TOWN OF CUMBERLAND, RI
COUNTY OF PROVIDENCE

R.I. CONTRACT NO. 3617184

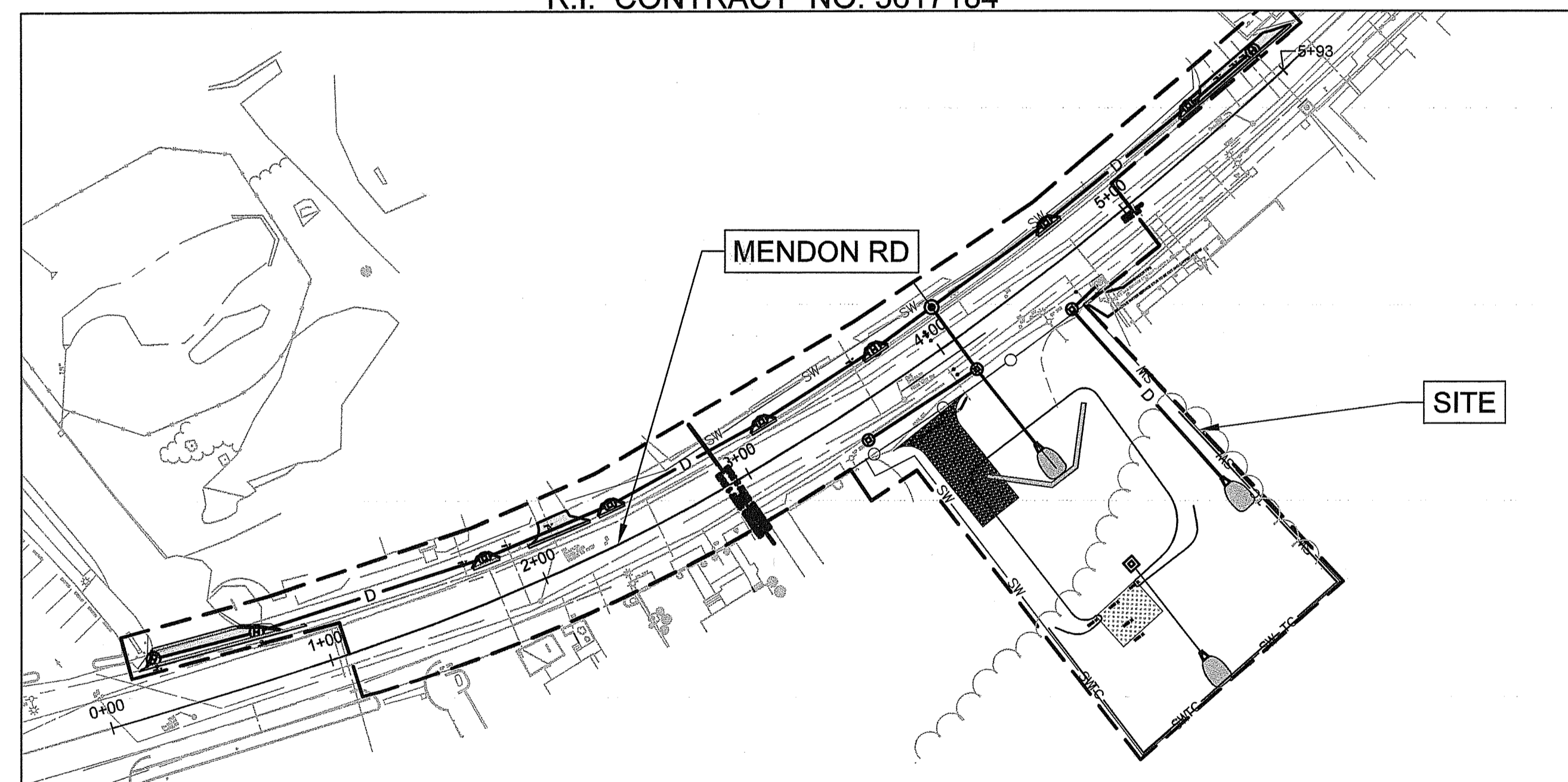


LOCATION MAP
SCALE 1" = 1000'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION # 22-0467
NOV 28 2022
DATED: _____
SEE LETTER OF SAME DATE
Michael J. Freeman

90% SUBMITTAL

NOT FOR CONSTRUCTION

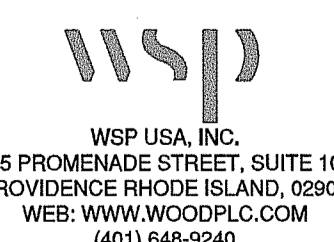
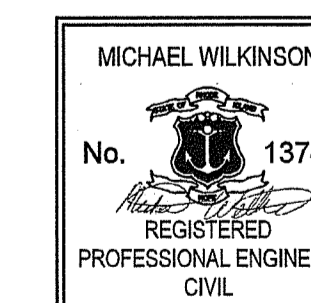


LAYOUT PLAN
SCALE 1" = 50'

SCALES OF DRAWINGS
Plans AS SHOWN

BASE OF LEVELS
Vertical Datum Used: NAD 1988
Horizontal Datum and Epoch Used: NAD83

VERTICAL DATUM USED WHEN ELEVATIONS, SPOT GRADES OR CONTOUR INTERVALS AS PROVIDED IS REFERENCED TO NAVD 88.
HORIZONTAL DATUM REFERENCED TO RI STATE PLANE COORDINATE SYSTEM, NAD83.

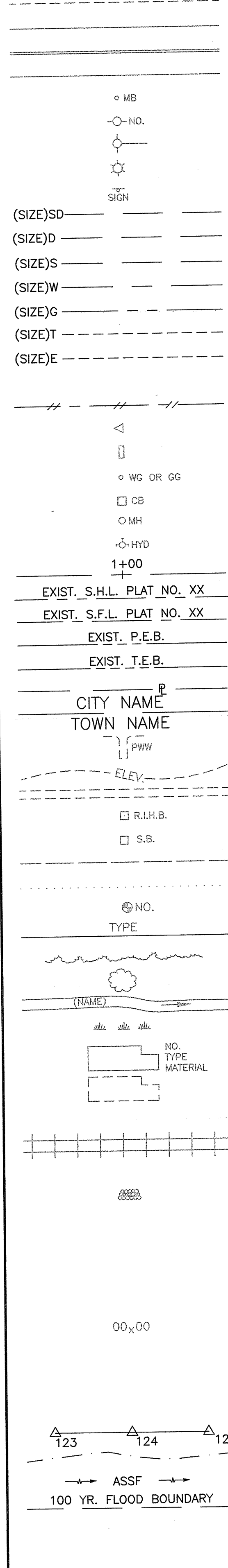


Contract Number 2016-CD-003
Number of Sheet 1
Total Sheets 17

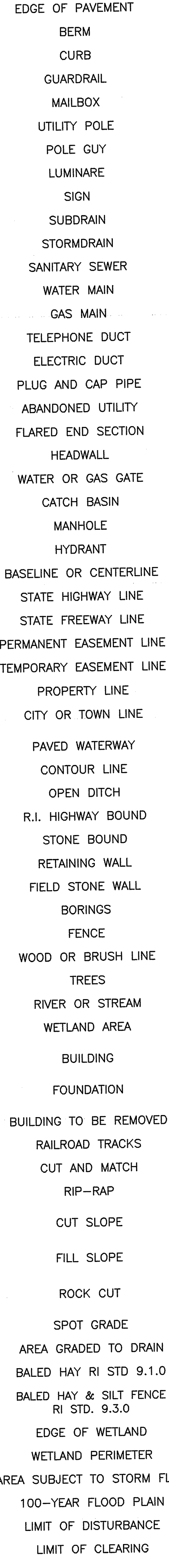
R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
DEPUTY CHIEF ENGINEER	DATE
APPROVED	
CHIEF ENGINEER	DATE
APPROVED	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
OCT 03 2022	
DIVISION ADMINISTRATOR	DATE

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS
SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION AMENDED MARCH 2018, 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.

EXISTING



NEW



1.1.0	UNDERDRAIN	7.4.2	GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)
1.3.0	CONCRETE CONNECTING COLLAR	7.5.0	BITUMINOUS CONCRETE LIP CURB
2.1.0	CONCRETE HEADWALLS FOR PIPE CULVERTS	7.5.1A	BITUMINOUS BERM (CONSTRUCTION METHOD A)
2.2.0	STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS	7.5.1B	BITUMINOUS BERM (CONSTRUCTION METHOD B)
2.3.0 (DIA.)	PRECAST CONCRETE FLARED END SECTION	7.6.0	CURB SETTING DETAIL
3.2.0	BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE	8.2.0	BITUMINOUS CONCRETE DITCH
3.2.1 (DIA.)	BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE	8.3.0	RIP-RAP DITCH
3.3.0	BRICK/SOLID BLOCK TYPE "D" SQUARE CATCH BASIN	8.4.0	PAVED WATERWAY
3.3.2	BRICK/SOLID BLOCK TYPE "F" SQUARE CATCH BASIN	9.1.0	BALED HAY EROSION CHECK
3.3.3	SOLID BLOCK FLUSH SQUARE CATCH BASIN	9.2.0	SILT FENCE DETAIL
3.4.0	BRICK/SOLID BLOCK TYPE "D" ROUND CATCH BASIN	9.3.0	BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
3.4.1	BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET	9.4.0	BALED HAY DITCH AND SWALE EROSION CHECK
3.4.2	BRICK/SOLID BLOCK TYPE "F" ROUND CATCH BASIN	9.5.0	LOG AND HAY CHECK DAM
3.4.3	BRICK/SOLID BLOCK TYPE "R" CATCH BASIN	9.7.0	DEWATERING BASIN
3.4.4	SOLID BLOCK FLUSH ROUND CATCH BASIN	9.8.0	BALED HAY CATCH BASIN INLET PROTECTION
3.4.5 (DIA.)	BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN	9.9.0	CONSTRUCTION ACCESS
3.5.0	SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN	10.1.0	WET STONE MASONRY RETAINING WALL
3.5.1 (SIZE)	SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN	10.2.0	RUBBLE MASONRY WALL
3.6.0	BRICK/SOLID BLOCK DROP INLET	10.3.0	CONCRETE RETAINING WALL
3.7.0 (DIA.)	BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"	10.4.0	STONE MASONRY STEPS
4.2.0	PRECAST 4'-0" ROUND MANHOLE	14.1.0	CONCRETE HIGHWAY BOUND
4.2.1	PRECAST 5'-0" ROUND MANHOLE	15.1.0	POST AND MOUNTINGS FOR RURAL MAILBOX
4.2.2	PRECAST 6'-0" ROUND MANHOLE	15.2.0 (NO.)	POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES
4.3.0 (SIZE)	PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN	18.2.0	PRECAST TYPE "A" HANDHOLE
4.4.0 (DIA.)	PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN	18.2.2	HEAVY DUTY TYPE "H" HANDHOLE
4.5.0	PRECAST CONCRETE DROP INLET	18.3.0	ALUMINUM LIGHTING STANDARDS
4.5.1	PRECAST CONCRETE DROP INLET LATERAL OUTLET	20.2.0	BI-DIRECTIONAL CONTROL DEVICE
4.5.2	PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET	24.6.1	STREET SIGN MOUNTING DETAIL
5.3.0	CATCH BASIN AND MANHOLE STEP	26.2.0	POLYETHYLENE DRUM WITH MARKINGS
5.4.0	CONCRETE COLLARS	26.3.0	PVC PLASTIC PIPE TYPE III BARRICADE
6.1.0	LIGHT-DUTY SQUARE FRAME AND ROUND COVER	31.1.0	CHAIN LINK FENCE 3'-0" TO 4'-0"
6.1.1	HEAVY DUTY SQUARE FRAME AND ROUND COVER	31.2.0	CHAIN LINK FENCE 5'-0" TO 6'-0"
6.2.0	LIGHT-DUTY ROUND FRAME AND COVER	31.2.1	CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST
6.2.1	HEAVY-DUTY ROUND FRAME AND COVER	31.3.0	WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)
6.3.0	SQUARE FRAME AND GRATE	34.1.0	TYPICAL GUARDRAIL INSTALLATION
6.3.1	SQUARE FRAME AND GRATE	34.2.0	STEEL BEAM GUARDRAIL
6.3.2	SQUARE FRAME AND GRATE (BICYCLE SAFE)	34.2.1	STEEL BEAM GUARDRAIL DETAILS
6.3.3	HIGH CAPACITY FRAME AND GRATE	34.2.2	STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY
6.3.4	HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)	34.2.3	STEEL BEAM GUARDRAIL FIXTURES
6.4.0	ROUND FRAME AND GRATE	34.2.5	STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR
7.1.0S	PRECAST CONCRETE CURB (STRAIGHT)	34.3.1	GUARDRAIL END SECTION
7.1.0C	PRECAST CONCRETE CURB (CIRCULAR)	34.3.2	TERMINAL END SECTION (SINGLE FACE)
7.1.1	3'-0" PRECAST CONCRETE TRANSITION CURB	34.3.3	ANCHORAGE DETAILS APPROACH END SECTION
7.1.2	6'-0" PRECAST CONCRETE TRANSITION CURB	34.3.4	ANCHORAGE DETAILS TRAILING END SECTION
7.1.4	PRECAST 2'-0" RADIUS CORNER	34.4.0	STEEL BACKED TIMBER GUARDRAIL
7.1.5	PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)	34.4.1	STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1
7.1.6	PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)	40.1.0	DOUBLE-FACED PRECAST MEDIAN BARRIER
7.1.7	PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)	40.2.0	SINGLE-FACED PRECAST MEDIAN BARRIER
7.1.8	PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)	40.2.1	SINGLE-FACED PRECAST MEDIAN BARRIER
7.2.0S	PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)	40.3.0	PRECAST MEDIAN BARRIER TRANSITION UNIT
7.2.0C	PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)	40.5.0	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL
7.2.1	PRECAST CONCRETE SLOPED FACE TRANSITION CURB	43.1.0	CEMENT CONCRETE SIDEWALK
7.2.2	PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)	43.2.0	BITUMINOUS CONCRETE SIDEWALK
7.3.0S	GRANITE CURB (STRAIGHT)	43.3.0	WHEELCHAIR RAMP
7.3.0C	GRANITE CURB (CIRCULAR)	43.3.1	WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
7.3.1	3'-0" GRANITE TRANSITION CURB	43.3.2	DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB
7.3.2	6'-0" GRANITE TRANSITION CURB	43.3.3	DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB
7.3.3	GRANITE WHEELCHAIR RAMP TRANSITION CURB	43.4.0	CEMENT CONCRETE DRIVEWAYS
7.3.4	GRANITE 2'-0" RADIUS CORNER	43.5.0	DETECTABLE WARNING SYSTEM
7.3.5	GRANITE INLET STONE (FOR SQUARE CATCH BASIN)	51.1.0	TREE PROTECTION DEVICE
7.3.6	GRANITE INLET STONE (FOR ROUND CATCH BASIN)	51.1.1	DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
7.3.7	GRANITE APRON STONE (FOR SQUARE CATCH BASIN)	51.2.0	SHRUB PROTECTION DEVICE
7.3.8	GRANITE APRON STONE (FOR ROUND CATCH BASIN)	51.3.0	TREE WELL
7.4.0	GRANITE SLOPED FACE CURB	51.4.0	TREE WALL
7.4.1	GRANITE SLOPED FACE TRANSITION CURB		

AB	ADJUST CATCH BASIN TO GRADE
ABM	ADJUST CATCH BASIN TO MANHOLE
AC	ADJUST CURB STOP TO GRADE
AD	ADJUST DRAINAGE MANHOLE TO GRADE
AE	ADJUST ELECTRIC MANHOLE TO GRADE
AFC	ADJUST FRAME AND COVER TO GRADE
AFG	ADJUST FRAME AND GRATE TO GRADE
AG	ADJUST GAS GATE BOX TO GRADE
AHH	ADJUST HANDHOLE TO GRADE
AS	ADJUST SANITARY SEWER MANHOLE TO GRADE
AT	ADJUST TELEPHONE MANHOLE TO GRADE
AW	ADJUST WATER GATE BOX TO GRADE
BCD	BITUMINOUS CONCRETE DRIVEWAY 3" BITUMINOUS CONCRETE TYPE 1-2 8" GRAVEL BORROW SUBBASE COURSE
BPS	BUILD NEW STRUCTURE OVER EXISTING PIPE
CCB	CLEAN CATCH BASIN
CCP	CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
CFP	CLEAN AND FLUSH PIPE
CG	CLEARING AND GRUBBING
CMH	CLEAN MANHOLE
CP (DEPTH)	COLD PLANE
CPP	CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
DB	REMOVE AND DISPOSE BITUMINOUS CURB
DC	REMOVE AND DISPOSE CONCRETE CURB
DCB	REMOVE AND DISPOSE CATCH BASIN
DDI	REMOVE AND DISPOSE DROP INLET
DF	REMOVE AND DISPOSE FENCE
DFC	REMOVE AND DISPOSE FRAME AND COVER
DFE	REMOVE AND DISPOSE FLARED END SECTION
DFG	REMOVE AND DISPOSE FRAME AND GRATE
DFH	REMOVE AND DISPOSE FIRE HYDRANT
DFP	REMOVE AND DISPOSE FLEXIBLE PAVEMENT
DG	REMOVE AND DISPOSE GUARDRAIL
DH	REMOVE AND DISPOSE HEADWALL
DHB	REMOVE AND DISPOSE HIGHWAY BOUND
DHH	REMOVE AND DISPOSE HANDHOLE
DL	REMOVE AND DISPOSE LIGHT AND FOUNDATION
DMB	REMOVE AND DISPOSE MEDIAN BARRIER
DMH	REMOVE AND DISPOSE MANHOLE
DMM	REMOVE AND DISPOSE MEDIAN MARKER
DOW	REMOVE AND DISPOSE OBSERVATION WELL
DP	REMOVE AND DISPOSE PIPE
DPB	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
DRB	REMOVE AND DISPOSE RIGID BASE
DS	REMOVE AND DISPOSE SIGN
DSS	REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
DSW	REMOVE AND DISPOSE SIDEWALK
DTD	REMOVE AND DISPOSE TELEPHONE DUCT BANKS
DUP	REMOVE AND DISPOSE UTILITY POLE
DWW	REMOVE AND DISPOSE PAVED WATERWAY
FF	FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
GET	FLARED GUARDRAIL END TREATMENT
IA	IMPACT ATTENUATOR
IDL	IMPERVIOUS DITCH LINER
LOD	LIMIT OF DISTURBANCE
LOR	LIMIT OF REGRADING
LS	4" LOAM AND SEED

NFH	NEW FIRE HYDRANT WITH GATE VALVE
NIC	NOT IN THIS CONSTRUCTION CONTRACT
NWB	FURNISH AND INSTALL NEW WATER GATE VALVE BOX
NWVB	FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX
NWCB	FURNISH AND INSTALL NEW WATER CURB STOP BOX
NWSB	FURNISH AND INSTALL NEW WATER CURB STOP AND BOX
PCD	PERMANENT CHECK DAM
PS	4" PLANTABLE SOIL AND SEED
RCB	RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET
RCM	R.I.D.O.T. COMMUNICATIONS MANHOLE
RHH	REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)
RLP	RELOCATE LAMP POST
RMB	RELOCATE MAILBOX (BY OTHERS)
RPM	REMOVE PAVEMENT MARKINGS
RRP	RIP-RAP PAD (SEE DETAIL)
RRS	REMOVE AND RELOCATE SIGN
RUP	RELOCATE UTILITY POLE (BY OTHERS)
SB	STONE BAFFLE
SBAE	STEEL BEAM BRIDGE CONNECTION APPROACH END (W/O NESTED RAIL)
SBTE	STEEL BEAM BRIDGE CONNECTION TRAILING END (W/NESTED RAIL)
SD-	STRUCTURAL DISPOSITION - SEE CS PAGES OF SPECIFICATION
SF	REMOVE AND STOCKPILE FENCE
SGA	SPECIAL GRADED AGGREGATE
SGC	REMOVE AND STOCKPILE GRANITE CURB
SGR	REMOVE AND STOCKPILE GUARDRAIL
SH	REMOVE AND STOCKPILE HYDRANT
SS	REMOVE AND STOCKPILE SIGN
STS	REMOVE AND STOCKPILE TRAFFIC SIGNAL SYSTEM
TB	CONCRETE THRUST BLOCK
TEP	TIE EXISTING PIPE INTO NEW STRUCTURE
TNP	TIE NEW PIPE INTO EXISTING STRUCTURE
TBT	THREE BEAM TRANSITION
TBBC	THREE BEAM BRIDGE CONNECTION
TT	TREE TRIMMING
WCM	4" WOOD CHIP MULCH
4DY	4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
6W	6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
12W	12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
6WT	6" PREFORMED PATTERNED MARKING (HIGH PERFORMANCE TAPE)
4Y	4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
6Y	6" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
P.G.L.	PROFILE GRADE LINE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION #: 22-0467
 DATED: NOV 28 2022
 SEE LETTER OF SAME DATE
Nancy J. Freeman

RI Department of Environmental Management
 OCT 03 2022
 Office of Water Resources

<p>WSP USA, INC. 275 PROMENADE STREET, SUITE 100 PROVIDENCE RHODE ISLAND, 02908 WEB: WWW.WSPCORP.COM (401) 648-9240</p>	<p>MICHAEL WILKINSON No. 13740 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>RHODE ISLAND DEPARTMENT OF TRANSPORTATION</p>	DESIGNED BY: MPS CHECKED BY: KK DATE: 09/28/2022 SHEET: 2 OF: 17	STORMWATER MANAGEMENT IMPROVEMENTS MENDON ROAD (ROUTE 122) CUMBERLAND RHODE ISLAND																											
			<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS			REVISIONS			NO.	DATE	BY	NO.	DATE	BY																
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NO.	DATE	BY	NO.	DATE	BY																										

GENERAL NOTES:

- ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, 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 106.06 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT DELIBERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE RESIDENT ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
- 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 AS DIRECTED BY THE ENGINEER.
- ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATED 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 PLANNED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 3 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 PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR CODE 403.0300 "ASPHALT EMULSION TACK COAT."
- THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST 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 HIS 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 WITH THE PERMISSION OF THE ENGINEER.
- UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR 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.
- PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR 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 THE SATISFACTION OF THE ENGINEER 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 EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT 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).
- 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 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:

- FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE. R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIDES 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. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
- NO UNDISTURBED AREAS SHALL BE CLEARED 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 R.I. STD. 9.1.0 TO STABILIZE.
- 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. OFFICE OF ENVIRONMENTAL PROGRAMS.
- JUTE MESH 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 DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR 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 PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
- 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 DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
- CATCH BASIN RIM GRADES 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 BE KEPT TO A MINIMUM.
 - ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER.
 - NO HEAVY EQUIPMENT MAY ENCRONCH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
- THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. 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 HAY 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 HAY 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.

DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):

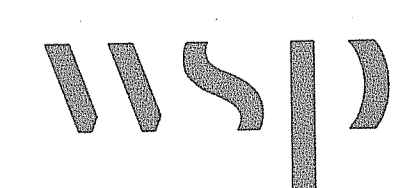
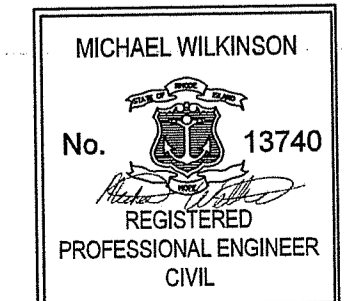

- DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENT HAVE BEEN ELIMINATED, FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED AS DIRECTED BY THE ENGINEER. 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 REQUIRED TO RESOLVE SUCH ISSUES SHALL BE COMPLETED BY 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 HAY 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 HE 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.
- ADDITIONAL EROSION CONTROLS, SHALL BE INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.

UTILITY NOTES:

- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. 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 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 UTILITY COMPANIES, PUBLIC AND PRIVATE MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, (SEE CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009) PRIOR TO DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORING OR REPAVING.
- THE LOCATION OF EXISTING PIPES OR OTHER UNDERGROUND STRUCTURES OR PROPERTY LINES ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES AREA SHOWN. THE CONTRACTOR SHALL CALL "DIG SAFE" (1-888-344-7233) 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO ANY EXCAVATION TO OBTAIN ACCURATE UTILITY LOCATIONS.
- THE EXISTING CONDITIONS PLAN IS TO BE USED FOR THE SPECIFIED PROJECT ONLY AND IS NOT WARRANTED TO BE COMPLETE FOR ANY OTHER FUTURE PROJECTS.
- 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.

RI Department of Environmental Management
 OCT 03 2022
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION # 22-0467
 DATED: NOV 28 2022
 SEE LETTER OF SAME DATE
 Nancy L. Freeman

 <p>WSP USA, INC. 275 PROMENADE STREET, SUITE 100 PROVIDENCE RHODE ISLAND, 02908 WEB: WWW.WSP.US (401) 648-9240</p>	 <p>MICHAEL WILKISON No. 13740 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	 <p>RHODE ISLAND DEPARTMENT OF TRANSPORTATION</p>	DESIGNED BY: MPS CHECKED BY: KK DATE: 09/28/2022 SHEET: 3 OF: 17	SCALE:	STORMWATER MANAGEMENT IMPROVEMENTS MENDON ROAD (ROUTE 122) CUMBERLAND RHODE ISLAND																				
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FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N/A	RI	N/A	2023	4	17

LANDSCAPE NOTES:

1. 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.
2. 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.
3. ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
4. A R.I.D.O.T. LANDSCAPE REPRESENTATIVE MUST BE ON SITE TO APPROVE ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS.
5. 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.
6. ALL TREES AND SHRUBS SHALL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
7. ALL TREES AND/OR SHRUBS THAT ARE PLANTED AS A BED SHALL BE MULCHED AS A BED.
8. PROVIDE A MINIMUM 6'-8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS AND/OR PEDESTRIAN ACCESS AREAS.

STRUCTURAL NOTES FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS:

GENERAL

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

CONSTRUCTION DRAWINGS AND DETAILS

1. 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."
2. 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.
3. 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:

1. ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE R.I.D.O.T. MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RHODE ISLAND, 02888.
2. BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
3. 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.
4. TRAFFIC CONTROLLER CABINETS, UNLESS OTHERWISE NOTED, SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 ("P" TYPE) WITH NOMINAL DIMENSIONS OF 52"x44"x24"D.
5. 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.
6. A BARE 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.
7. 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.
8. 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.
9. ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
10. 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.
11. 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.
12. ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
13. ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
14. TRAFFIC SIGNAL CONTROLLERS SHALL BE WIRED SO THAT ANY FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
15. 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:

1. 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.
2. ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
3. 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.
4. 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.
5. POLICE OFFICERS (AND NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
6. 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.
7. 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.
8. 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."
9. 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 30' BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
10. 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.
11. THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. WATERBORNE PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANNED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT.

RI Environmental Management
OCT 03 2022
Office of Water Resources

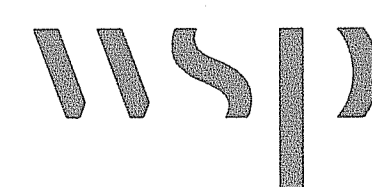
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0467
DATED: NOV 28 2022
SEE LETTER OF SAME DATE
Michael J. Freeman

DESIGNED BY:	MPS	SCALE:					
CHECKED BY:	KK	REVISIONS			REVISIONS		
DATE:	09/28/2022	NO.	DATE	BY	NO.	DATE	BY
SHEET:	4						
OF:	17						

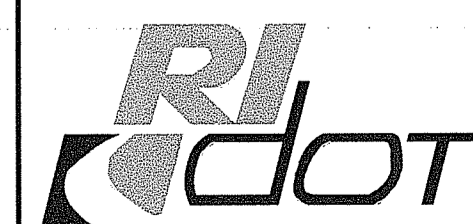
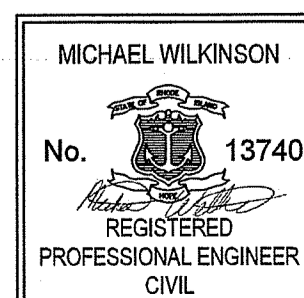
**STORMWATER MANAGEMENT IMPROVEMENTS
MENDON ROAD (ROUTE 122)**

CUMBERLAND RHODE ISLAND

STANDARD NOTES - 2



WSP USA, INC.
275 PROMENADE STREET, SUITE 100
PROVIDENCE RHODE ISLAND, 02908
WEB: WWW.WOODPLC.COM
(401) 648-9240



**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

JOB SPECIFIC LEGEND

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N/A	RI	N/A	2023	5	17

- (BCD) BITUMINOUS CONCRETE DRIVEWAY
2" MIN. CLASS 12.5 BASE COURSE
1.5" MIN. CLASS 9.5 SURFACE COURSE
8" GRAVEL BORROW SUBBASE
- (FSC) FULL DEPTH SAW CUT
- (GE) GUTTER EEL
- (LOD) LIMITS OF DISTURBANCE
- (RRH) REMOVE AND RELOCATE HYDRANT
- (RRM) REMOVE AND RELOCATE MAILBOX
- (RRS) REMOVE AND RELOCATE ROAD SIGN
- (SS) SILT SACK (SEE DETAIL)
- (STB) RIPRAP STILLING BASIN
- (SW) STRAW WATTLE (SEE DETAIL)
- (EOP) EDGE OF PAVEMENT
- (4.4.0)^X PRECAST 4'-0" ROUND CATCH BASIN-DEEP SUMP (DEPTH INDICATED BY 'X')
- (PCFE) PRECAST CONCRETE FLARED END SECTION
- (GCE) GRAVEL CONSTRUCTION ENTRANCE
- (CF) CONSTRUCTION FENCING
- (SFCFT) SILT FENCE AND COMPOST FILTER TUBES
- (SSST) SILT SACK SEDIMENT TRAP

EXISTING

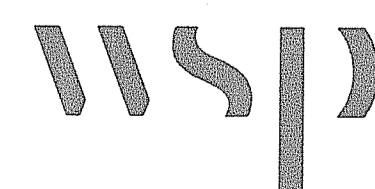
- GAS VALVE
- WATER VALVE
- UNKNOWN VALVE
- HYDRANT
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- GUY WIRE
- CATCH BASIN
- DRAIN MANHOLE
- SANITARY MANHOLE
- TELEPHONE MANHOLE
- SIGNAL HAND HOLE
- ELECTRIC HAND HOLE
- SIGN
- ELECTRIC RISER
- EXISTING CONTOUR
- DECIDUOUS TREE
- CONIFEROUS TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- BORING
- LIGHT
- LIGHT POLE
- LANDSCAPED AREA
- CURB RAMP & DETECTABLE WARNING SYSTEM
- IRRIGATION HANDHOLE
- TEST PIT
- OBSERVATION WELL
- MAILBOX

NEW

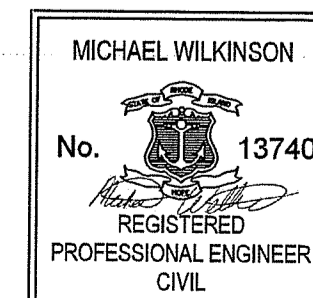
- NEW IMPERVIOUS AREA
- RIPRAP STILLING BASIN
- STRAW WATTLE
- DRAIN STRUCTURE
- LIMIT OF DISTURBANCE
- DRAIN LINE
- HIGHWAY BASELINE
- SAWCUT AREA
- EASEMENT
- WATER GATE
- STOCKPILE AREA

RI Environmental Management
OCT 03 2022
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION # 22-0467
DATED: NOV 28 2022
SEE LETTER OF SAME DATE
Nancy L. Freeman



WSP USA, INC.
275 PROMENADE STREET, SUITE 100
PROVIDENCE RHODE ISLAND, 02908
WEB: WWW.WOODFLC.COM
(401) 649-9240



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: MPS
CHECKED BY: KK
DATE: 09/28/2022
SHEET: 5
OF: 17

SCALE:					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

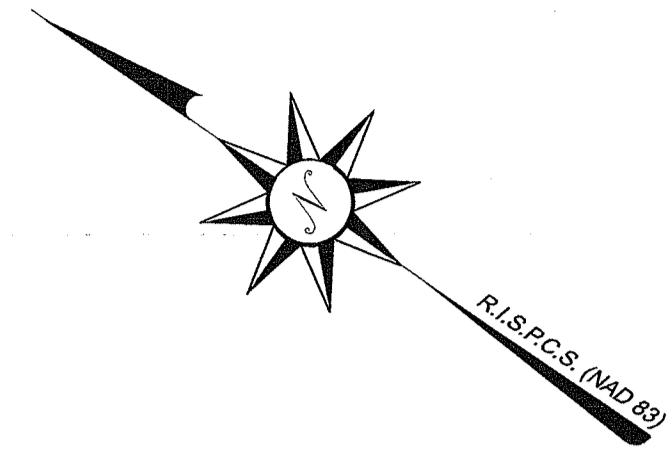
STORMWATER MANAGEMENT IMPROVEMENTS
MENDON ROAD (ROUTE 122)

CUMBERLAND RHODE ISLAND

JOB SPECIFIC SYMBOLS, LEGENDS, & NOTES

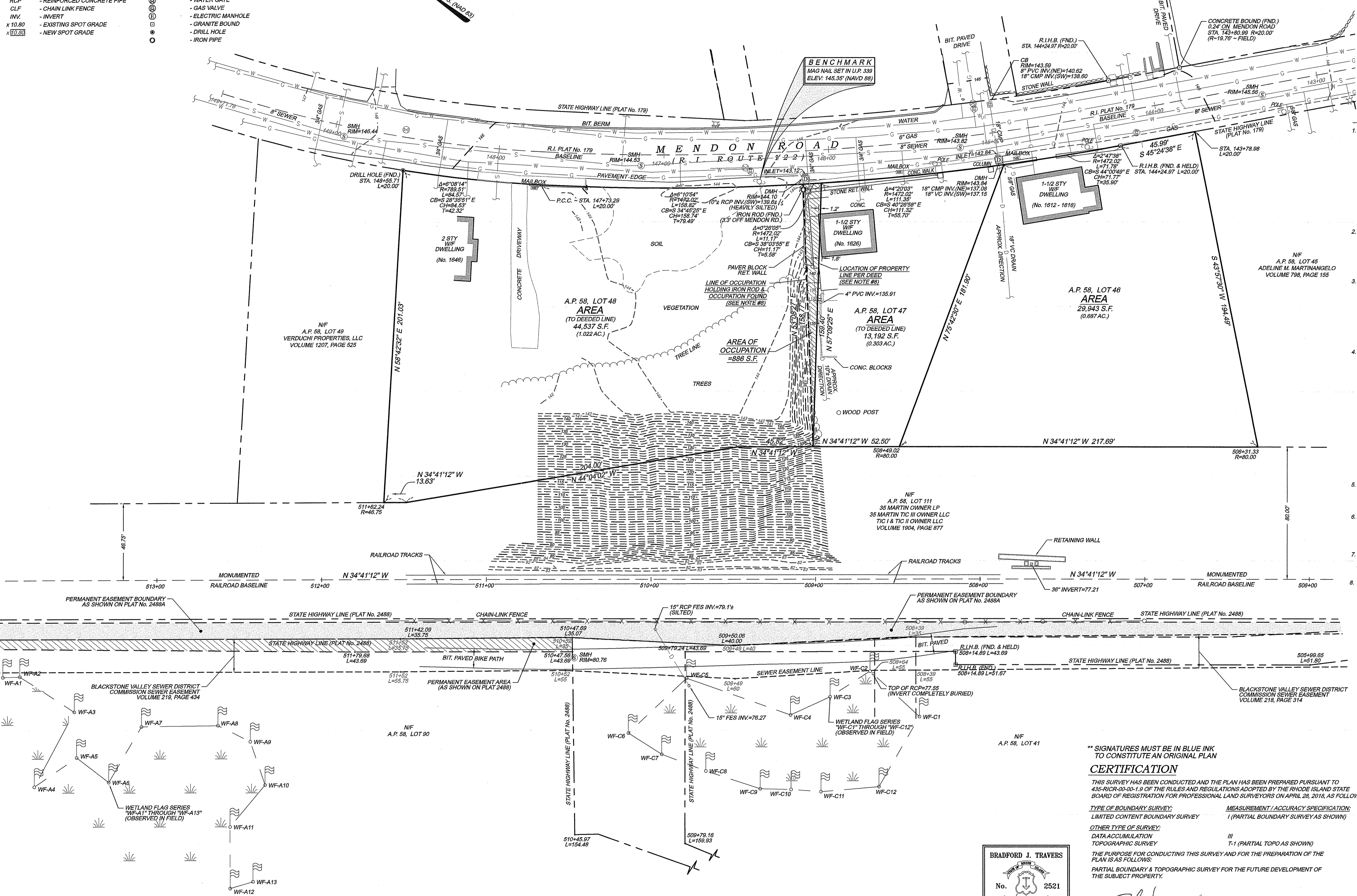
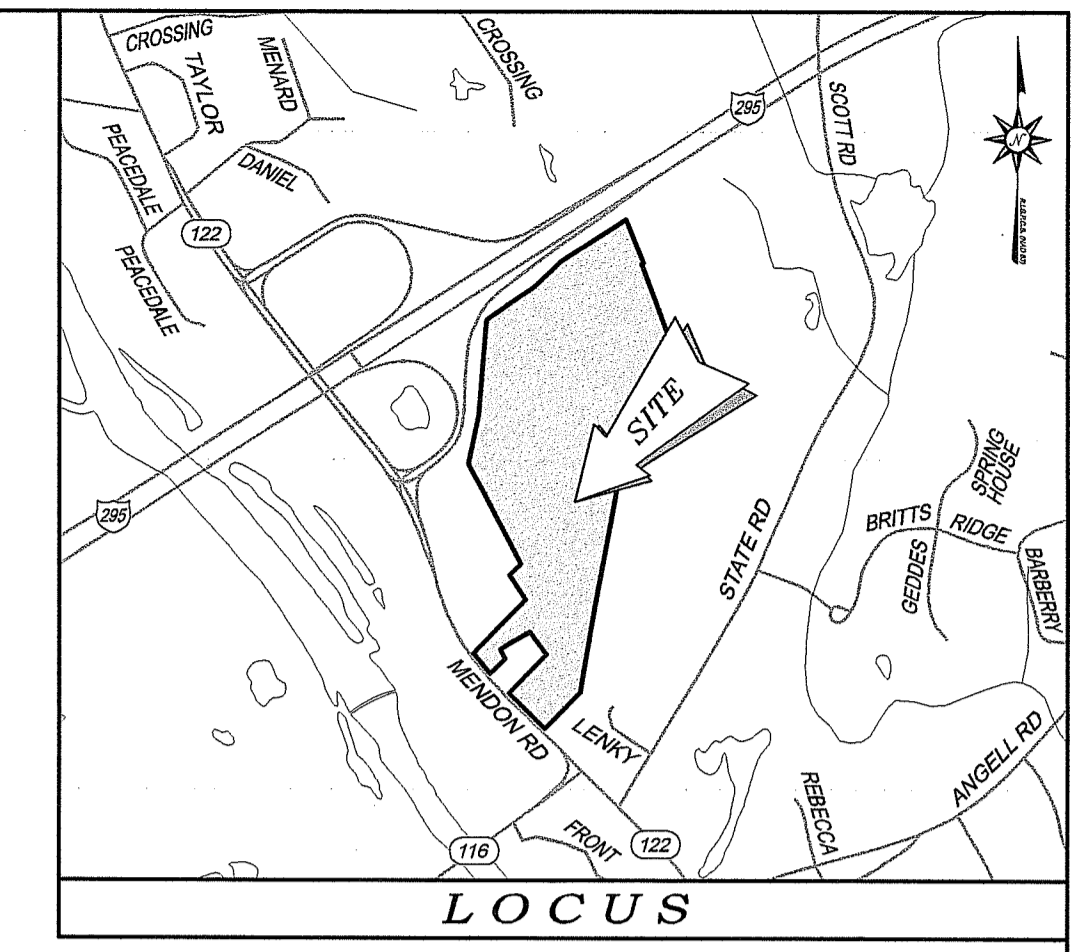
LEGEND & ABBREVIATIONS

- N/F - NOW OR FORMERLY
- A.P. - ASSASSOR'S PLAT
- S.F. - SQUARE FEET
- AC. - ACRES
- ± - PLUS OR MINUS
- STY - STORY
- W/F - WOOD FRAMED
- SHP - STATE HIGHWAY PLAT
- RET. - RETAINING WALL
- PED. - PEDESTRIAN
- (FND.) - FOUND
- R/HB - RI HIGHWAY BOUND
- PK NAIL - MASONRY NAIL
- FE - FLARED END
- RCP - REINFORCED CONCRETE PIPE
- CLF - CHAIN LINK FENCE
- INV. - INVERT
- x 10.80 - EXISTING SPOT GRADE
- x 10.80 - NEW SPOT GRADE
- — — — — PROPERTY LINE
- - - - - ZONING SETBACK LINE
- - - - - EXISTING CONTOUR
- - - - - NEW CONTOUR
- - - - - STONE WALL
- X - FENCE
- S - SEWER LINE
- D - DRAIN LINE
- W - WATER LINE
- G - GAS LINE
- E - ELECTRIC LINE
- SMH - SANITARY SEWER MANHOLE
- CB - CATCH BASIN
- SDM - STORM DRAIN MANHOLE
- WG - WATER GATE
- GV - GAS VALVE
- EMH - ELECTRIC MANHOLE
- GH - GRANITE HOLE
- IP - IRON PIPE



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION #: 22-0467
 DATED: NOV 28 2022
 SEE LETTER OF SAME DATE

Nancy L. Freeman

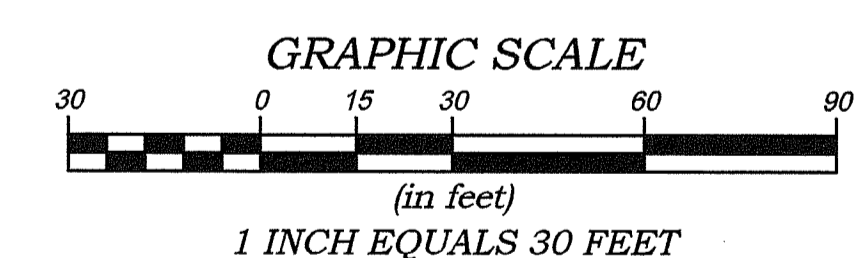


NOTES / REFERENCES

1. REFERENCE IS MADE TO THE FOLLOWING MAPS AND PLANS OF RECORD:
 - A.) RHODE ISLAND HIGHWAY PLATS 179, 455, 1319, 1319B, 2488 & 2488A
 - B.) PLAN ENTITLED "PLAT OF LAND BELONGING TO THE HEIRS OF HULDAH BARBER, CUMBERLAND, SURVEYED & DIVIDED JANUARY 1872 BY DANIEL..."
 - C.) PLAN ENTITLED "PLAN OF LAND ON MENDON ROAD, CUMBERLAND, R.I., BELONGING TO LUTHER A. AND AGUELINE RAY, A.P. 58, LOTS 48 & 50, SURVEYED AND DRAWN BY THOMAS D. DRURY JR., R.S., SCALE: 1" = 40', DATED: JUNE 18, 1985."
 - D.) PLAN ENTITLED "ADMINISTRATIVE SUBDIVISION MAP, SURVEYED FOR TONETTI ENTERPRISES INC., MENDON ROAD, CUMBERLAND, RHODE ISLAND, PREPARED BY: CAPUTO AND WICK LTD., DATE: JUNE 20, 2001."
 - E.) PLAN ENTITLED "PLAN OF TENEMENT PROPERTY AT ASHTON, CUMBERLAND, R.I., BELONGING TO LONSDALE COMPANY, PREPARED BY: WATERMAN ENGINEERING CO., SCALE: 1" = 50', DATED: APRIL, 1939."
2. REFERENCE IS MADE TO THE FOLLOWING TOWN OF CUMBERLAND LAND EVIDENCE RECORDS REGARDING RECORDED TITLE TO THE PREMISES SURVEYED:
 - A.) A.P. 58, LOT 48 - SONNY J. POLANCO - VOLUME 1819, PAGE 189
 - B.) A.P. 58, LOT 47 - SONNY J. POLANCO - VOLUME 1740, PAGE 605
 - C.) A.P. 58, LOT 48 - JCB REALTY, LLC - VOLUME 1557, PAGE 639
3. THESE PREMISES MAY BE SUBJECT TO THE FOLLOWING EASEMENTS, RIGHTS OF WAY, EXCEPTIONS OR AGREEMENTS OF RECORD:
 - A.) EXCEPTING PORTIONS TAKEN BY THE STATE OF RHODE ISLAND FOR THE WIDENING OF MENDON ROAD AS DESCRIBED IN VOLUME 1819, PAGE 165.
 - B.) EASEMENTS AS DELINEATED ON R.I. HIGHWAY PLATS No. 2488 & 2488A
4. THESE PREMISES ARE SITUATED IN AN R-1 ZONE
 - A) TITLE COMMITMENT / ABSTRACT WAS NOT PROVIDED AS PART OF THIS PROJECT. THIS PROPERTY IS SUBJECT TO ANY / ALL EASEMENTS AND AGREEMENTS A PART OF THIS COMMITMENT / ABSTRACT WOULD DISCLOSE.
5. THESE PREMISES ARE SITUATED IN AN R-1 ZONE
 - MIN. LOT AREA = 80,000 SQ.FT.
 - MIN. LOT WIDTH = 180 FT.
 - MIN. LOT FRONTAGE = 180 FT.
 - MIN. S/B FRONT YARD = 50 FT.
 - MIN. S/B SIDE YARD = 20 FT.
 - MIN. S/B REAR YARD = 30 FT.
 - MAX. LOT COVERAGE = 20%
 - MAX. STRUCTURE HEIGHT = 35 FT.

NOTE - ZONING INFORMATION IS FROM CURRENT ZONING AND MAY NOT REFLECT THE CONDITIONS AT THE TIME OF CONSTRUCTION OR ANY VARIANCES GRANTED.

*** THE PROPERTIES FALL WITHIN CUMBERLAND'S HISTORIC DISTRICT, AS SHOWN AND DELINEATED ON THE TOWN OF CUMBERLAND ONLINE GIS DATA VIEWER.
6. ANY UTILITIES SHOWN ON THIS PLAN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING PLANS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH EXISTING UTILITIES. THE SURVEYOR DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM ALL AVAILABLE INFORMATION. (PLEASE CONTACT DIG SAFE 72 HOURS PRIOR TO CONSTRUCTION AT PHONE NO. 1-888-DIG-SAFE AND/OR ALL LOCAL UTILITY COMPANIES.)
7. THE HORIZONTAL DATUM FOR THIS PROJECT IS R.I.S.P.C.S. (NAD 83) AND THE VERTICAL DATUM FOR THIS PROJECT IS NAVD 83. THE PROJECT DATUMS WERE ESTABLISHED FROM REFERENCE STATIONS AND GASS CORRECTIONS RECEIVED FROM THE LEICA SMARTNET NORTH AMERICA RTK NETWORK VIA CARLSON BRX6 GNSS ANTENNAS / RECEIVERS.
8. IT IS THE OPINION OF THIS SURVEYOR THAT THE LOCATION OF THE DEEDED PROPERTY LINE BETWEEN A.P. 58, LOTS 47 & 48 BISECTS THE DWELLING ON LOT 47 AS SHOWN. THE PROPERTY DESCRIPTIONS FOR THESE PROPERTIES, ALONG WITH MANY OTHERS IN THIS AREA, ARE HISTORIC IN NATURE AND PREDATE THE HIGHWAY LAYOUT FOR MENDON ROAD. THE LOCATION OF THIS DEEDED PROPERTY LINE IS NOT CONSISTENT WITH THE CURRENT LOCATION OF THE OCCUPATION BETWEEN THESE PROPERTIES AS SHOWN. DUE TO THE VAGUE NATURE OF THE PROPERTY DESCRIPTIONS FOR A.P. 58, LOTS 47 & 48 AND ITS INCONSISTENCIES WITH THE CURRENT OCCUPATION, A PROPERTY LINE AGREEMENT IS RECOMMENDED TO AFFIRM THE LOCATION OF THE PROPERTY LINE BETWEEN THESE TWO PARCELS.



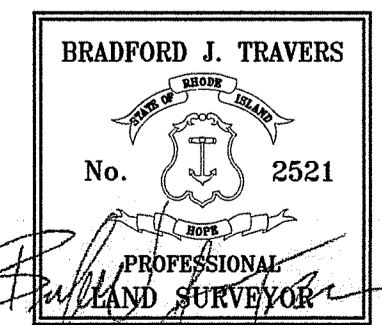
CERTIFICATION

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-01.5 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018, AS FOLLOWS:

TYPE OF BOUNDARY SURVEY: LIMITED CONTENT BOUNDARY SURVEY
 MEASUREMENT / ACCURACY SPECIFICATION: I (PARTIAL BOUNDARY SURVEY AS SHOWN)

OTHER TYPE OF SURVEY: TOPOGRAPHIC SURVEY
 DATA ACCUMULATION: TOPOGRAPHIC SURVEY
 III (PARTIAL TOPO AS SHOWN)

THE PURPOSE FOR CONDUCTING THIS SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
 PARTIAL BOUNDARY & TOPOGRAPHIC SURVEY FOR THE FUTURE DEVELOPMENT OF THE SUBJECT PROPERTY.



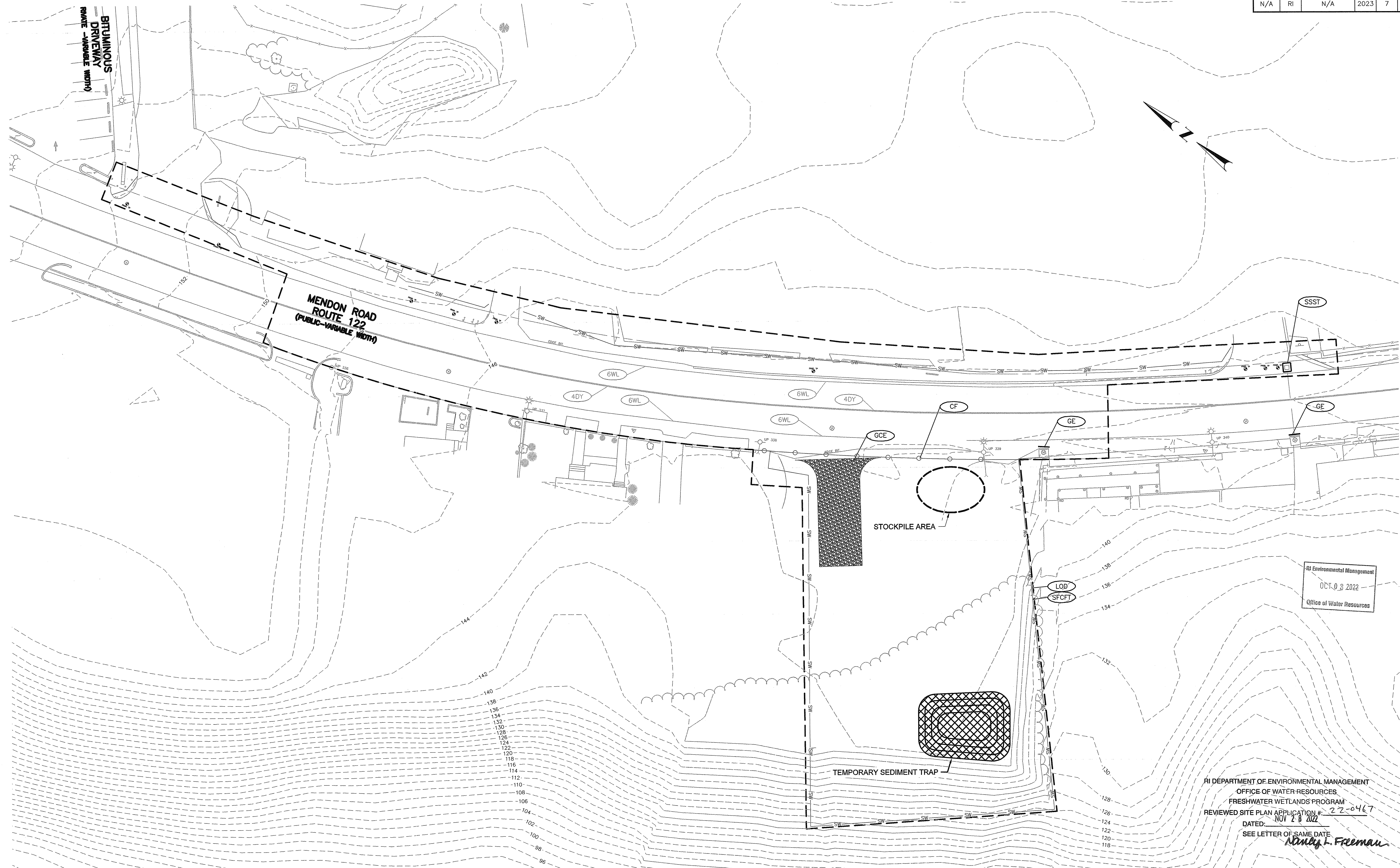
BY: *Bradford J. Travers*
 BRADFORD J. TRAVERS, P.L.S. REG. NO. 2521
 WATERMAN ENGINEERING COMPANY (COA No. LS.0004483) DATE: 09/09/2022

NO.	DATE	REVISION	CHECKED BY

PROJECT NO: 22-035
 SCALE: 1" = 30'
 DATE: 09/09/2022
 DRAWN BY: EBP
 CHECKED BY: BLT
 FILENAME: 22-035_S01
 SHEETS: 1 of 1
 DRAWING NO: SUT

WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.
 275 PROMENADE STREET, SUITE 100
 PROVIDENCE, RHODE ISLAND 02908
 Phone: (401) 438-2775
 Fax: (401) 438-5773
 www.watermanengineering.net

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 THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEER/SURVEYOR AND HAVE BEEN PREPARED FOR THE OWNER. FOR THIS PROJECT AT THIS SITE AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE, LOCATION OR OWNER WITHOUT WRITTEN CONSENT OF THIS OWNER OR ONE OF ITS DIRECTORS.



RI Environmental Management
 OCT. 8 2022
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION #: 22-0467
 DATED: NOV 28 2022
 SEE LETTER OF SAME DATE
Nancy J. Freeman

WSP USA, INC.
 275 PROMENADE STREET, SUITE 100
 PROVIDENCE RHODE ISLAND, 02908
 WEB: WWW.WOODPLC.COM
 (401) 649-9240

MICHAEL WILKINSON
 No. 13740
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

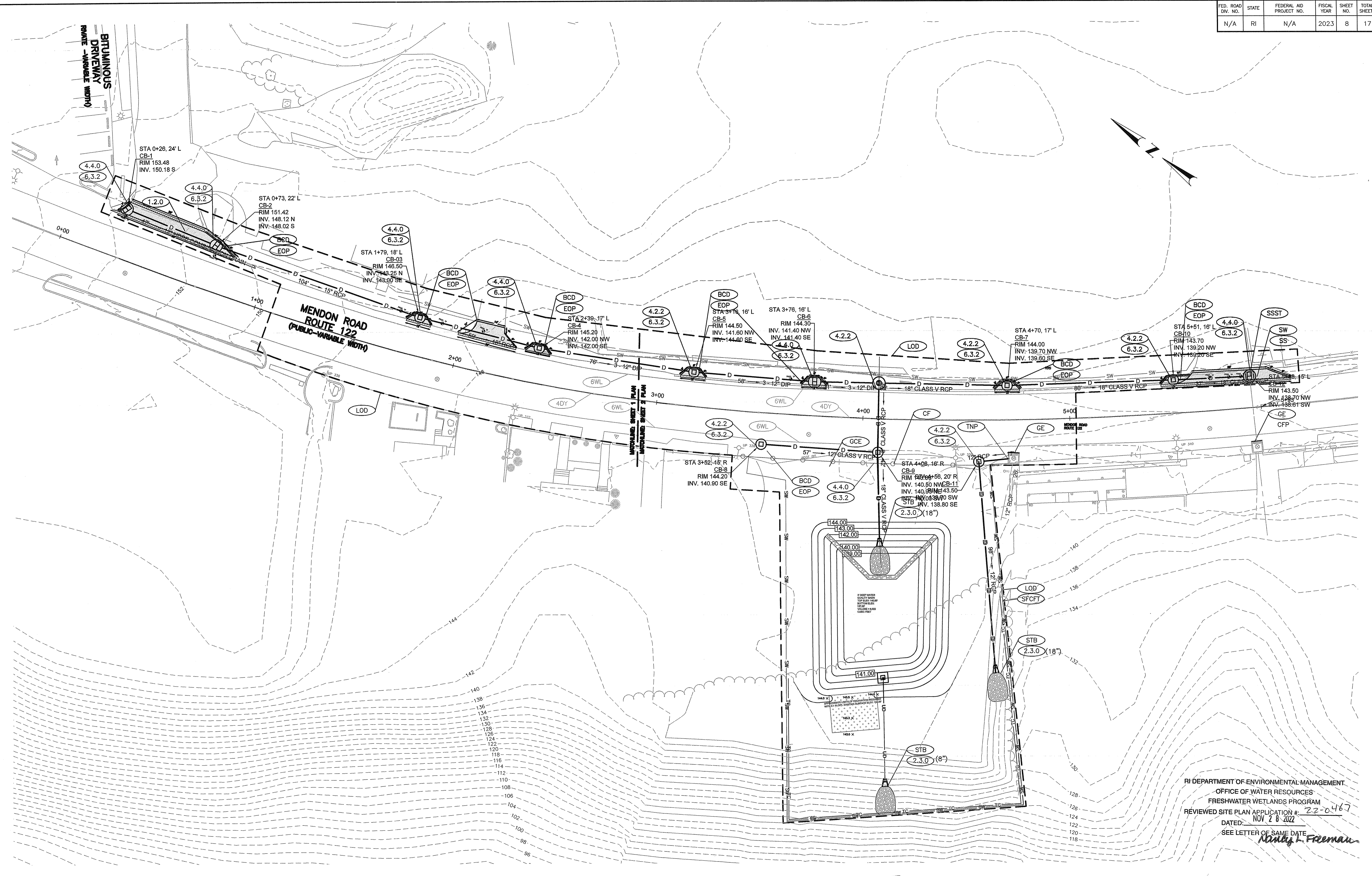
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY: MPS
 CHECKED BY: KK
 DATE: 09/28/2022
 SHEET: 7
 OF: 17

SCALE: 1"=20'
 GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

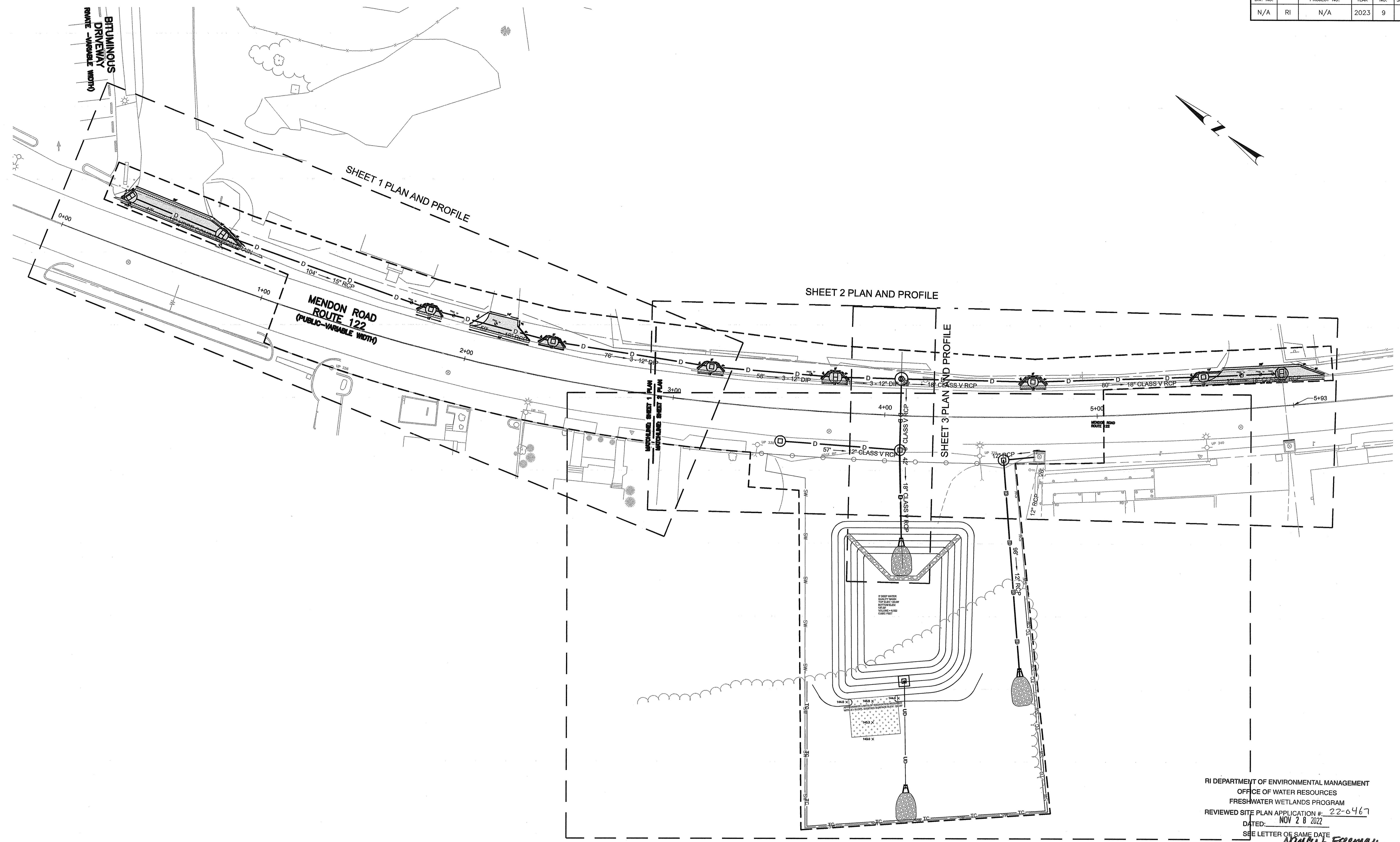
STORMWATER MANAGEMENT IMPROVEMENTS
 MENDON ROAD (ROUTE 122)
 CUMBERLAND RHODE ISLAND
 SOIL EROSION AND SEDIMENT CONTROL PLAN



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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 DATED: NOV 28 2022
 SEE LETTER OF SAME DATE
Anthony Freeman

<p>WSP USA, INC. 275 PROMENADE STREET, SUITE 100 PROVIDENCE RHODE ISLAND, 02908 WEB: WWW.WOODPLC.COM (401) 648-9240</p>	<p>MICHAEL WILKINSON No. 13740 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>RHODE ISLAND DEPARTMENT OF TRANSPORTATION</p>	<p>OCT 03 2022 Office of Water Resources</p>	<p>DESIGNED BY: MPS CHECKED BY: KK DATE: 09/28/2022 SHEET: 8 OF: 17</p>	<p>SCALE: 1"=20' </p> <table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS			REVISIONS			NO.	DATE	BY	NO.	DATE	BY							<p>STORMWATER MANAGEMENT IMPROVEMENTS MENDON ROAD (ROUTE 122) CUMBERLAND RHODE ISLAND</p> <p>OVERALL SITE PLAN</p>
						REVISIONS			REVISIONS															
NO.	DATE	BY	NO.	DATE	BY																			
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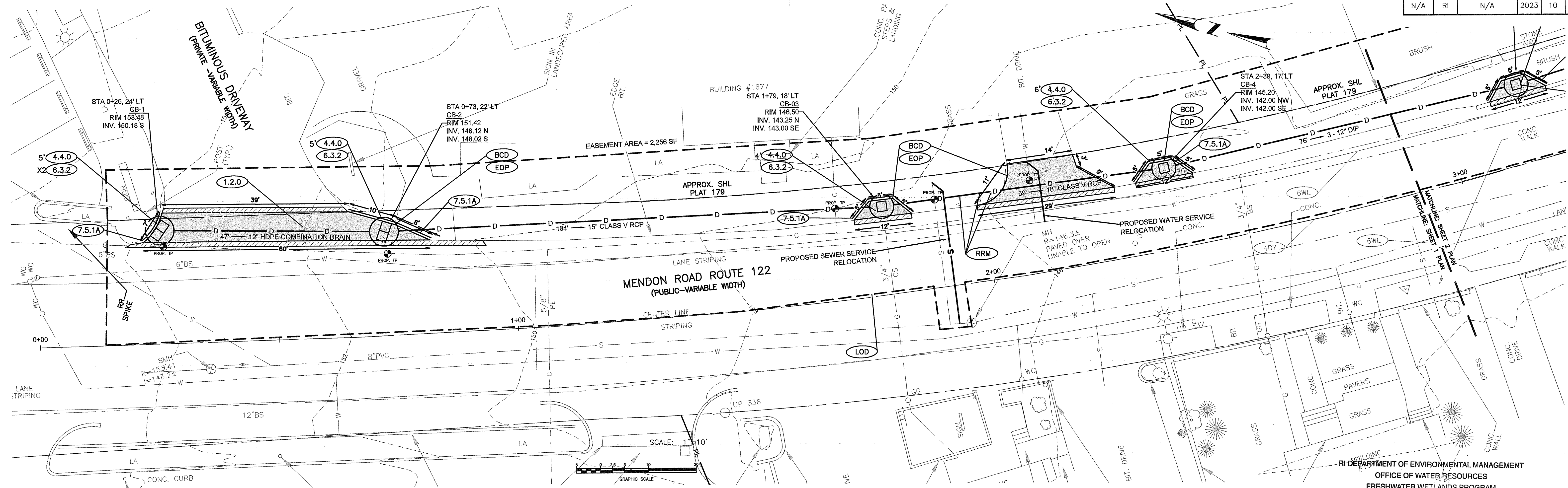
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N/A	RI	N/A	2023	9	17



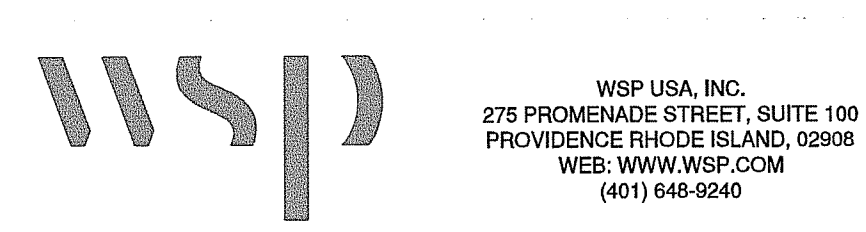
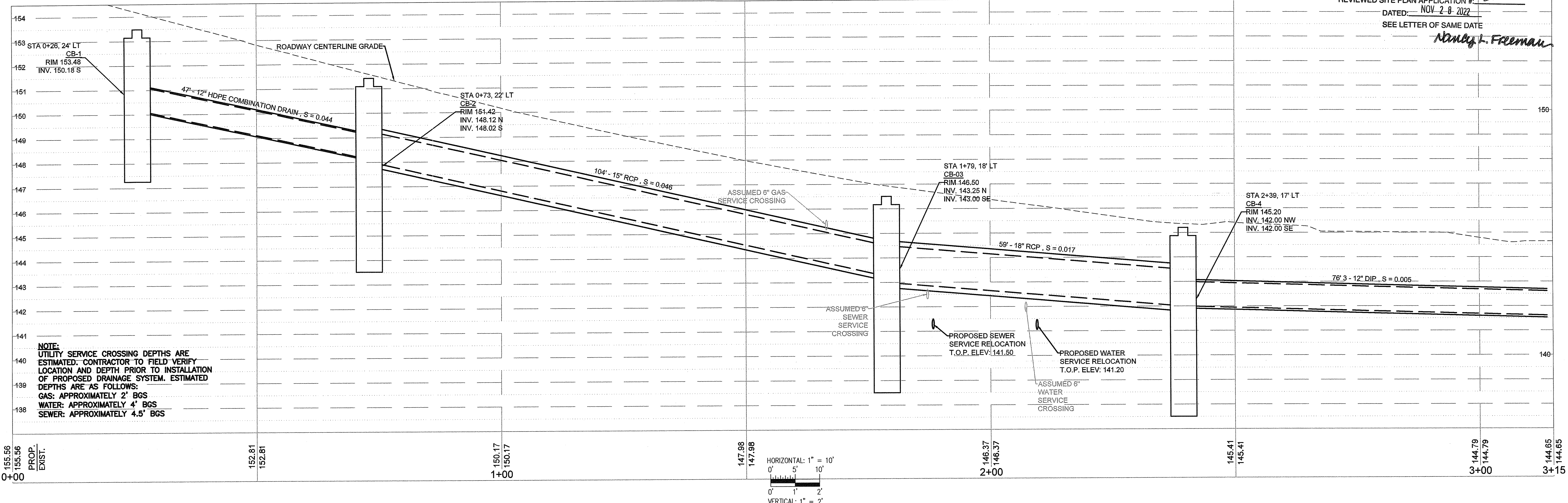
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESH WATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION # 22-0467
 DATED: NOV 28 2022
 SEE LETTER OF SAME DATE
Nancy L. Freeman

SHEET 4 PLAN

<p>WSP USA, INC. 275 PROMENADE STREET, SUITE 100 PROVIDENCE RHODE ISLAND, 02908 WEB: WWW.WOODPLC.COM (401) 648-9240</p>	<p>MICHAEL WILKINSON No. 13740 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>RHODE ISLAND DEPARTMENT OF TRANSPORTATION</p>	<p>RI Environmental Management OCT 03 2022 Office of Water Resources</p>	<p>DESIGNED BY: MPS CHECKED BY: KK DATE: 09/28/2022 SHEET: 9 OF: 17</p>	<p>SCALE: 1"=20'</p>	<p>STORMWATER MANAGEMENT IMPROVEMENTS MENDON ROAD (ROUTE 122) CUMBERLAND RHODE ISLAND</p>
					<p>KEY PLAN</p>	



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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 SEE LETTER OF SAME DATE
Nancy J. Freeman

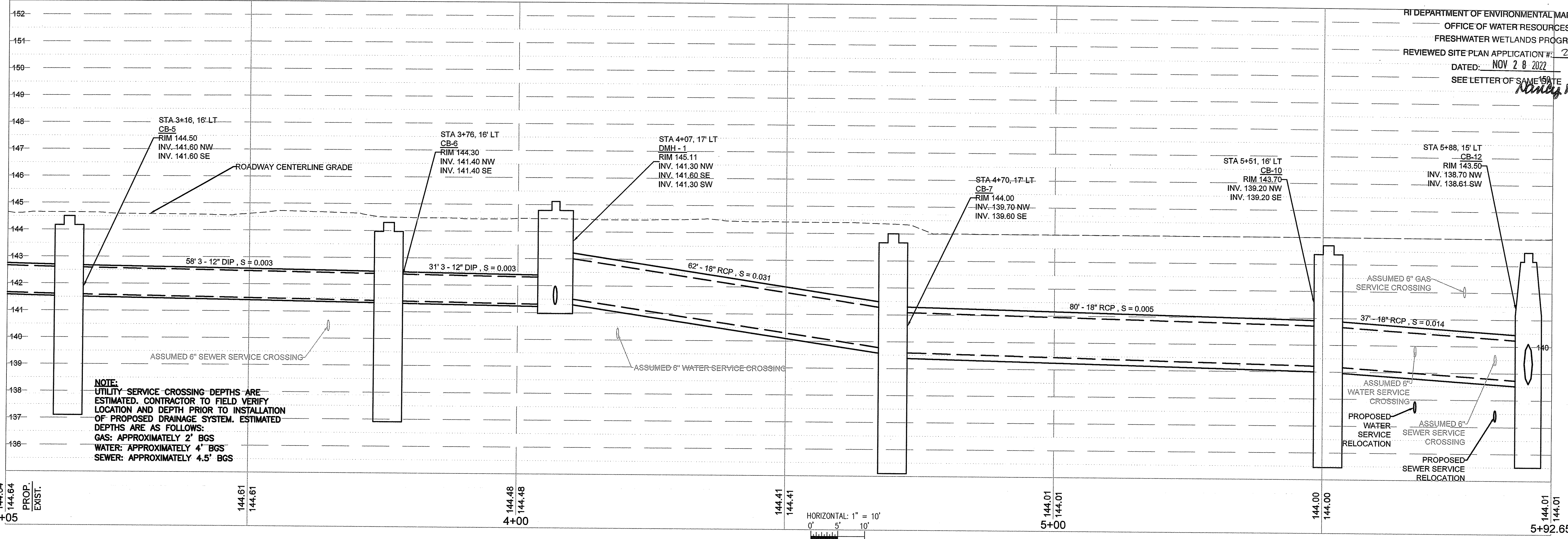
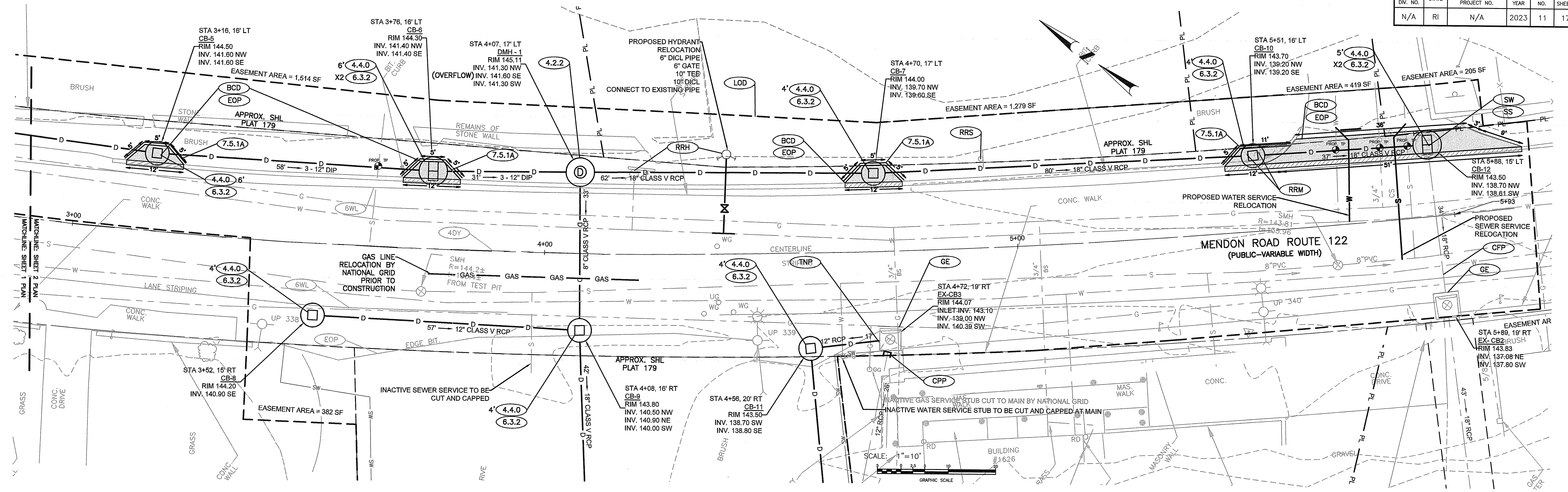


RI Environmental Management
 OCT 03 2022
 Office of Water Resources

DESIGNED BY: MPS
 CHECKED BY: KK
 DATE: 09/28/2022
 SHEET: 10
 OF: 17

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

STORMWATER MANAGEMENT IMPROVEMENTS MENDON ROAD (ROUTE 122)
 CUMBERLAND RHODE ISLAND
SHEET 1 - PLAN AND PROFILE



NOTE:
UTILITY SERVICE CROSSING DEPTHS ARE ESTIMATED. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH PRIOR TO INSTALLATION OF PROPOSED DRAINAGE SYSTEM. ESTIMATED DEPTHS ARE AS FOLLOWS:
GAS: APPROXIMATELY 2' BGS
WATER: APPROXIMATELY 4' BGS
SEWER: APPROXIMATELY 4.5' BGS

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

WSP USA, INC.
275 PROMENADE STREET, SUITE 100
PROVIDENCE RHODE ISLAND, 02908
WEB: WWW.WSP.COM
(401) 640-9240

MICHAEL WILKINSON
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CIVIL

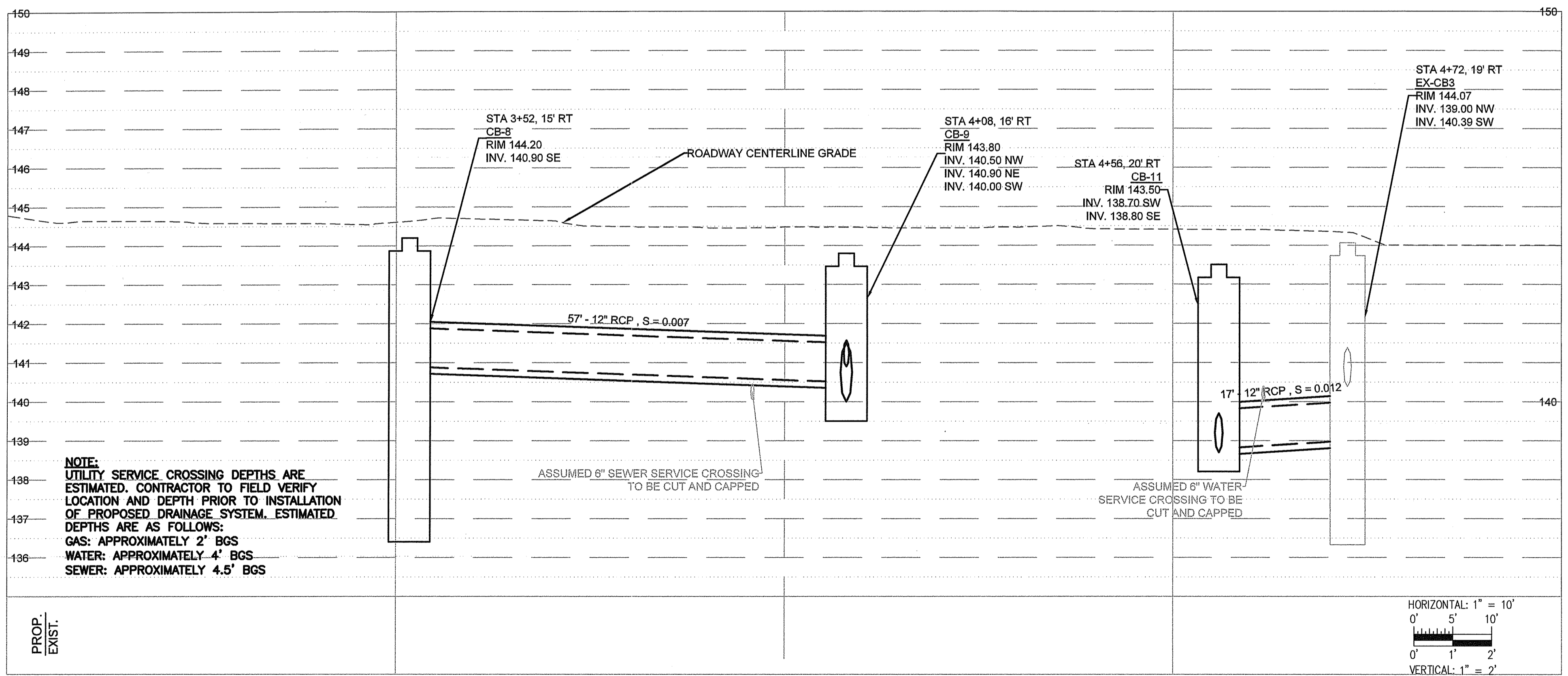
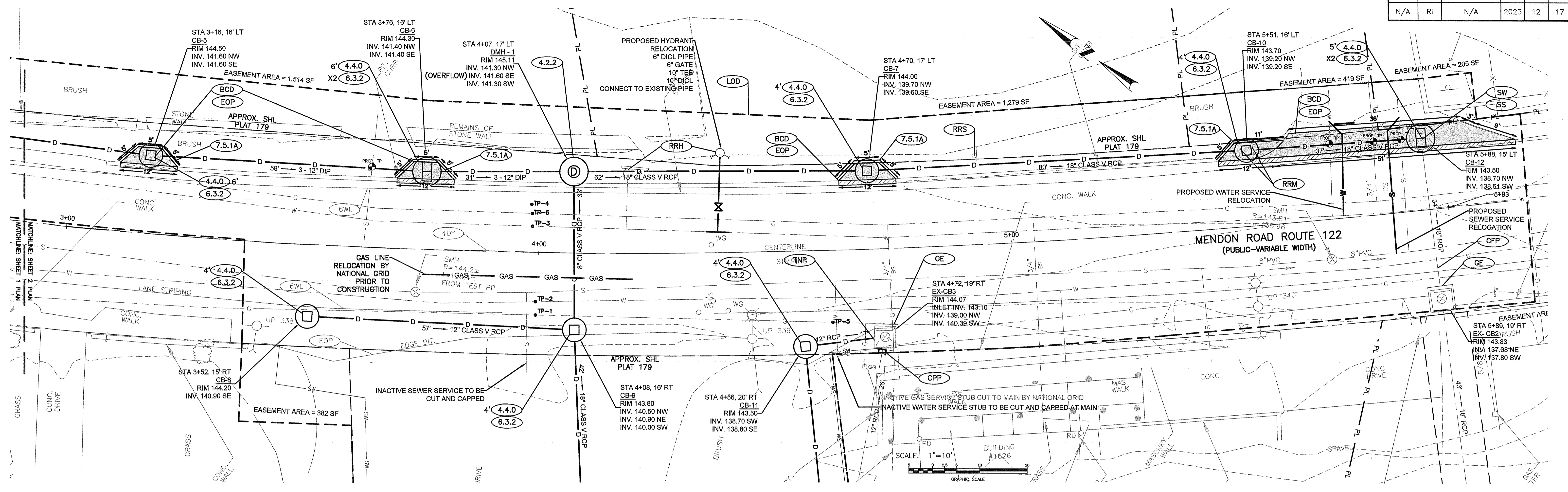
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY: MPS
CHECKED BY: KK
DATE: 09/28/2022
SHEET: 11
OF: 17

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

STORMWATER MANAGEMENT IMPROVEMENTS
MENDON ROAD (ROUTE 122)
CUMBERLAND
RHODE ISLAND
SHEET 2 - PLAN AND PROFILE 1

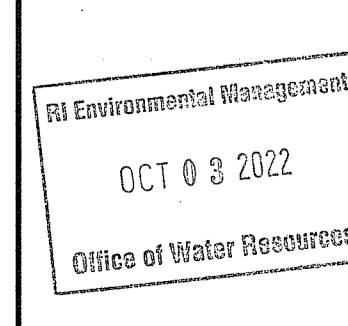
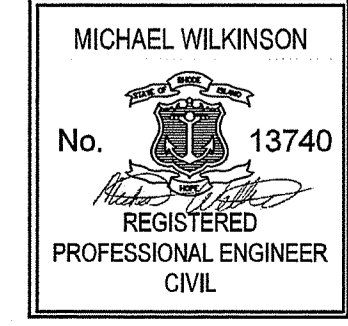
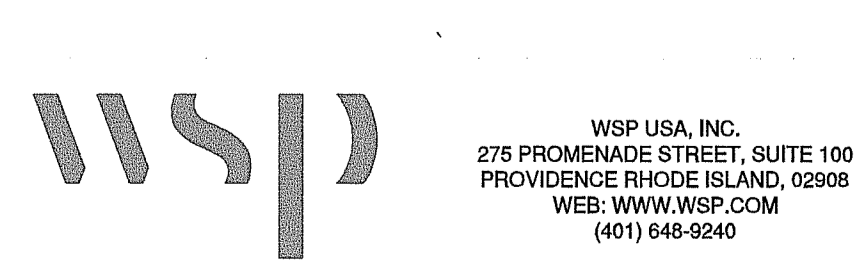
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N/A	RI	N/A	2023	12	17



NOTE:
 UTILITY SERVICE CROSSING DEPTHS ARE ESTIMATED. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH PRIOR TO INSTALLATION OF PROPOSED DRAINAGE SYSTEM. ESTIMATED DEPTHS ARE AS FOLLOWS:
 GAS: APPROXIMATELY 2' BGS
 WATER: APPROXIMATELY 4' BGS
 SEWER: APPROXIMATELY 4.5' BGS

HORIZONTAL: 1" = 10'
 0' 5' 10'
 0' 1' 2'
 VERTICAL: 1" = 2'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION #: 22-0467
 DATED: NOV 20 2022
 SEE LETTER OF SAME DATE
Nancy L. Freeman

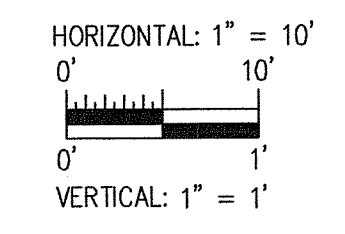
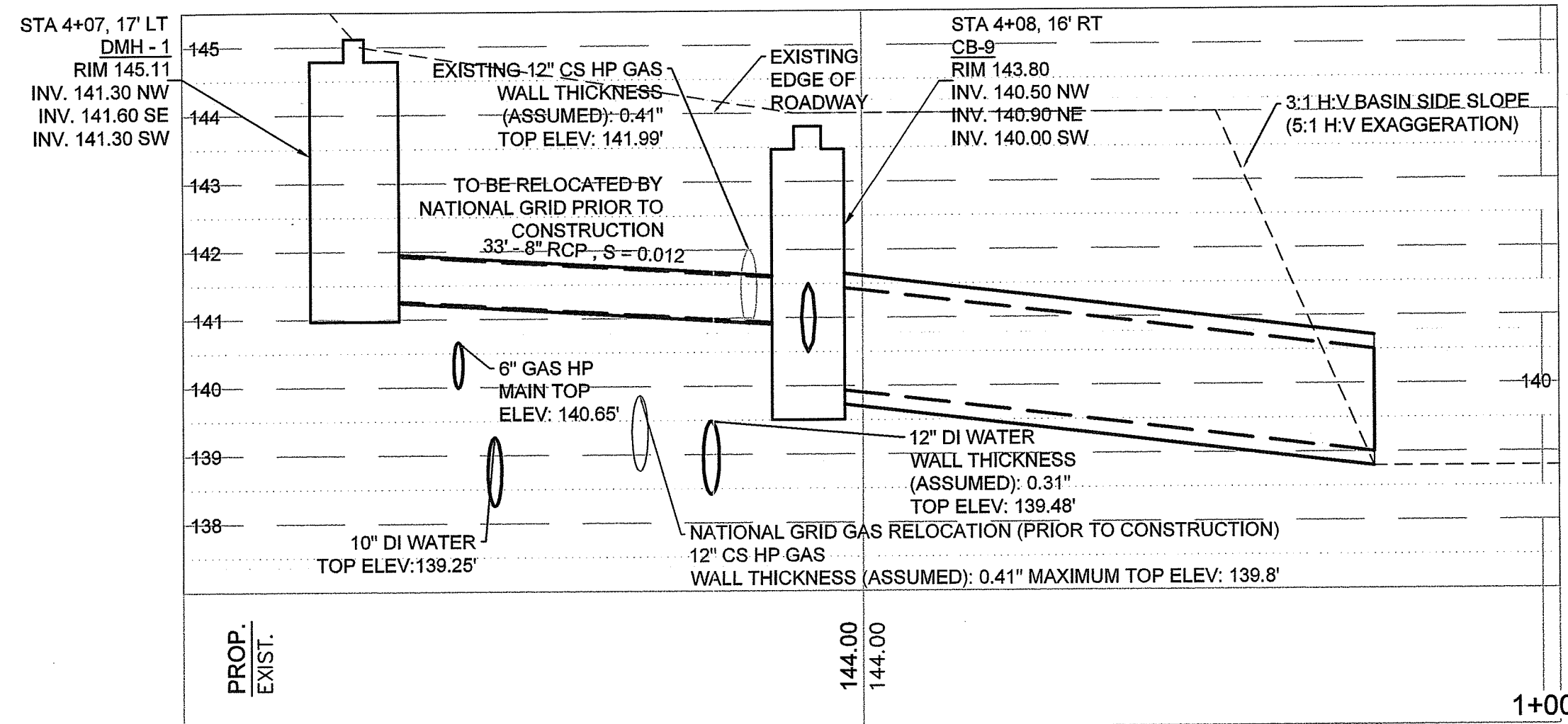
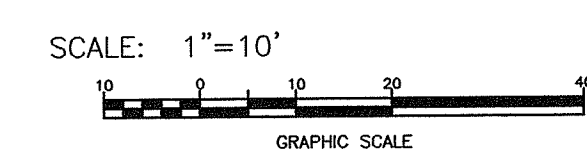
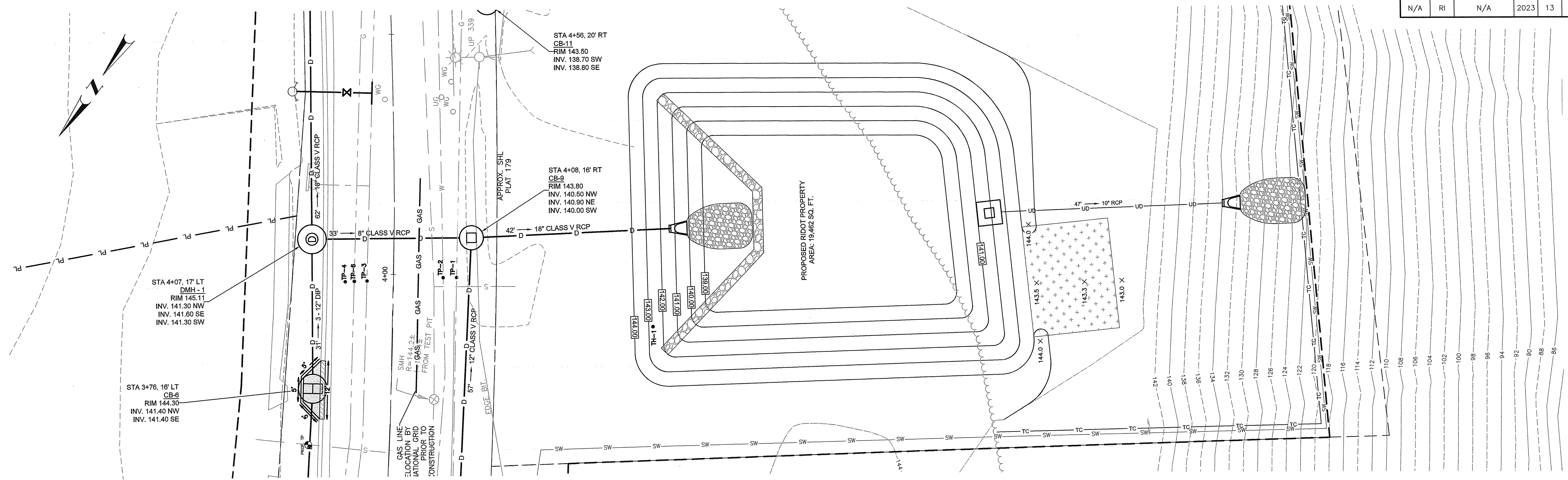


DESIGNED BY: MPS
 CHECKED BY: KK
 DATE: 09/28/2022
 SHEET: 12
 OF: 17

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

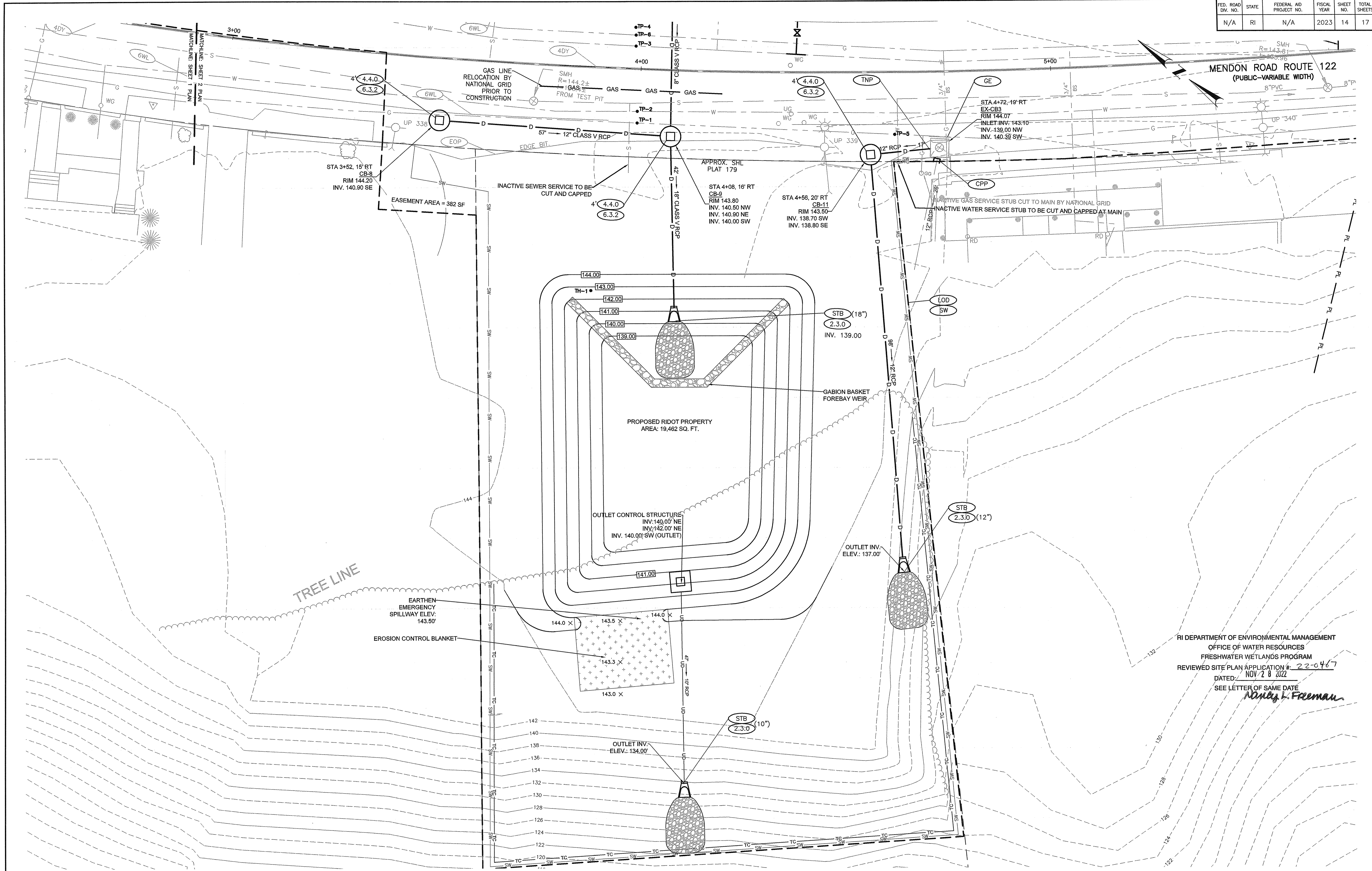
STORMWATER MANAGEMENT IMPROVEMENTS
 MENDON ROAD (ROUTE 122)
 CUMBERLAND RHODE ISLAND
SHEET 2 - PLAN AND PROFILE 2

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
N/A	RI	N/A	2023	13	17



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0467
DATED: NOV 28 2022
SEE LETTER OF SAME DATE
Nancy L. Freeman

<p>WSP USA, INC. 275 PROMENADE STREET, SUITE 100 PROVIDENCE RHODE ISLAND, 02908 WEB: WWW.WSP.COM (401) 648-9240</p>	<p>MICHAEL WILKINSON No. 13740 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>RHODE ISLAND DEPARTMENT OF TRANSPORTATION</p>	<p>DESIGNED BY: MPS CHECKED BY: KK DATE: 09/29/2022 SHEET: 13 OF: 17</p>	<p>STORMWATER MANAGEMENT IMPROVEMENTS MENDON ROAD (ROUTE 122)</p>	
				<p>CUMBERLAND RHODE ISLAND</p> <p>SHEET 3 - PLAN AND PROFILE</p>	



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION #: 22-0467
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Nancy L. Freeman

wsp
 WSP USA, INC.
 275 PROMENADE STREET, SUITE 100
 PROVIDENCE RHODE ISLAND, 02908
 WEB: WWW.WSP.COM
 (401) 648-9240

MICHAEL WILKINSON
 No. 13740
 REGISTERED
 PROFESSIONAL ENGINEER
 CIVIL

RI DOT
 RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

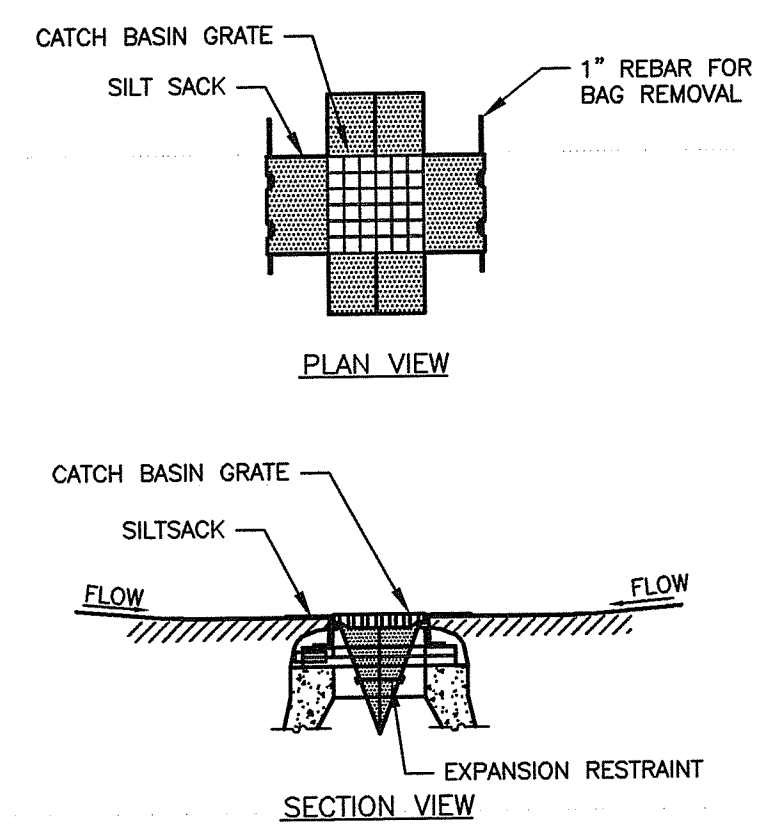
RI Environmental Management
 OCT 03 2022
 Office of Water Resources

DESIGNED BY: MPS
 CHECKED BY: KK
 DATE: 09/28/2022
 SHEET: 14
 OF: 17

SCALE: 1"=10'
 GRAPHIC SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

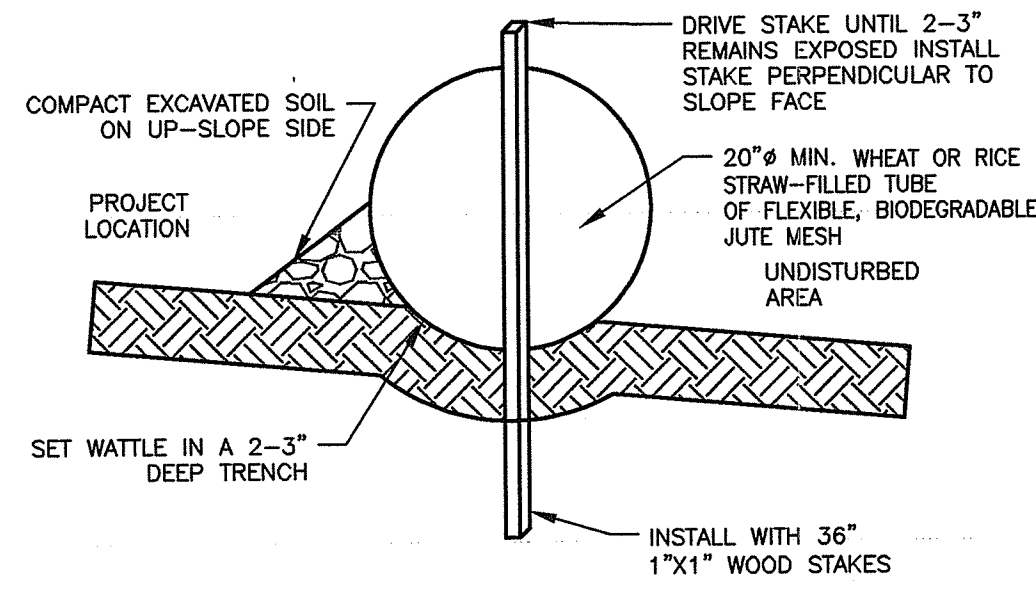
STORMWATER MANAGEMENT IMPROVEMENTS
MENDON ROAD (ROUTE 122)
 CUMBERLAND RHODE ISLAND
STORMWATER BASIN PLAN



- NOTES:**
1. INSTALL SILT SACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK.
 2. GRATE TO BE PLACED OVER SILT SACK.
 3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
 4. MAINTAIN UNTIL UP-GRADE AREAS HAVE BEEN PERMANENTLY STABILIZED.

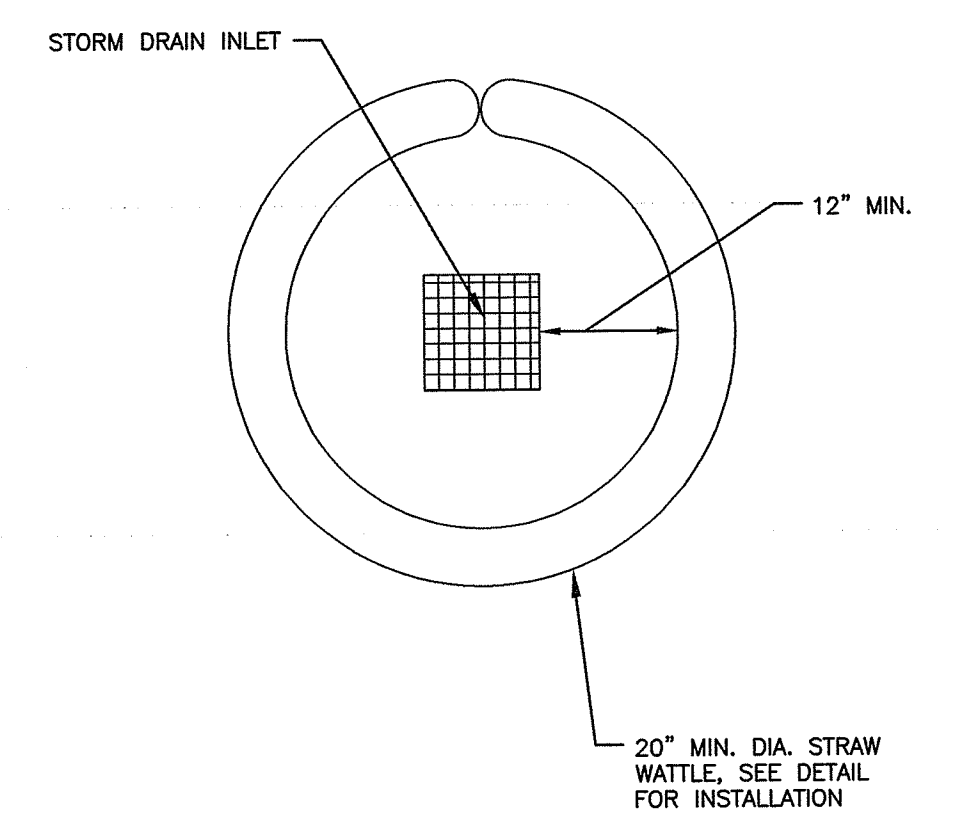
SILT SACK SEDIMENT TRAP
NTS wood_9.10

SLOPE STEEPNESS	MAXIMUM LENGTH (FT)
2:1	25
3:1	50
4:1	75
5:1 OR FLATTER	100

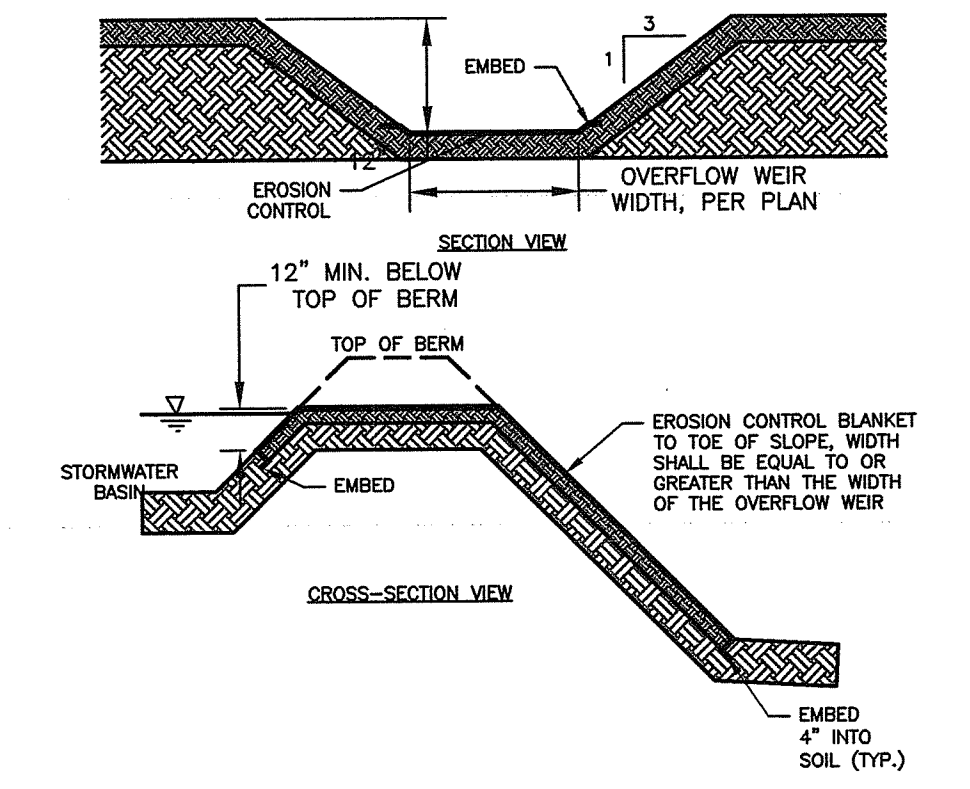


- NOTES:**
1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHALL BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
 2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT THE SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UP-HILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
 3. SECURE THE WATTLE WITH 18-24" STAKES EVERY 3-4' WITH A STAKE ON EACH END. STAKES SHALL BE DRIVEN THROUGH THE MIDDLE OF THE WATTLES LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE. THE WATTLE STAKES SHALL BE DRIVEN PERPENDICULAR TO SLOPE FACE.
 4. MAX. DRAINAGE AREA ≤ 0.25 ACRES/100 LINEAR FEET.

STRAW WATTLE
NTS wood_9.18

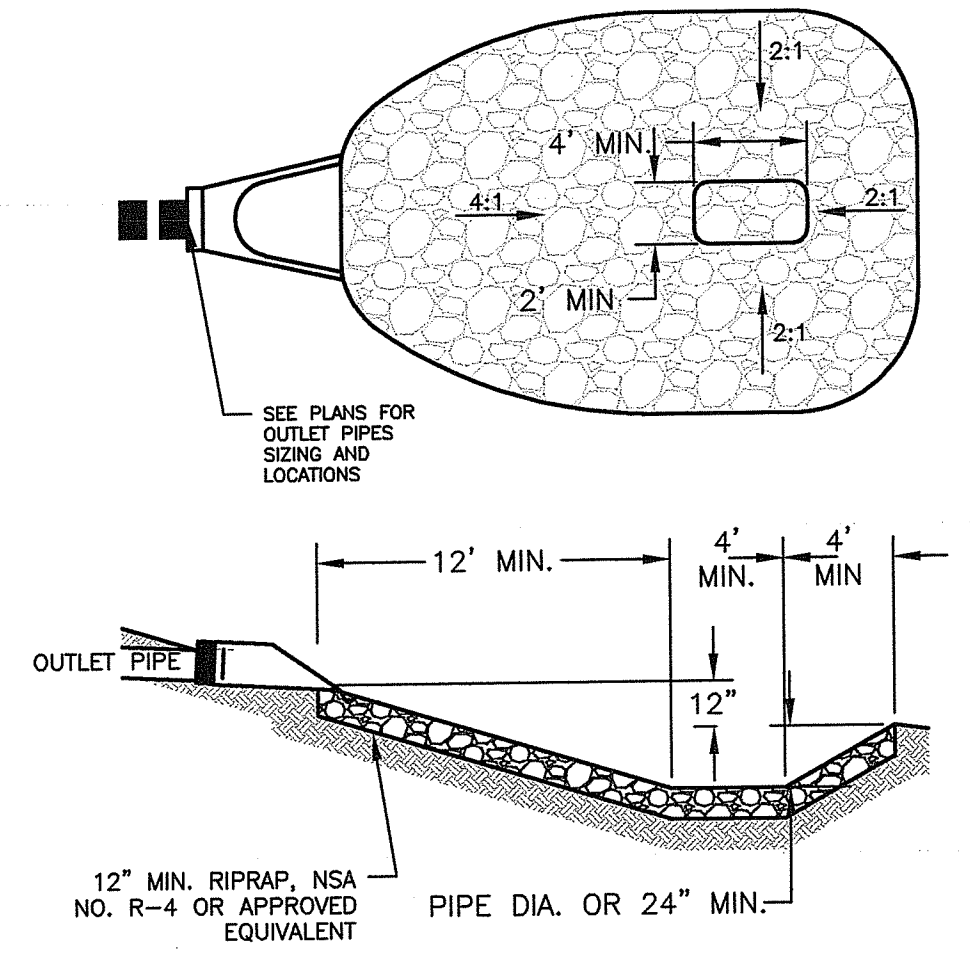


STRAW WATTLE INSTALLATION AT CATCH BASIN
NTS CA-RC-018B

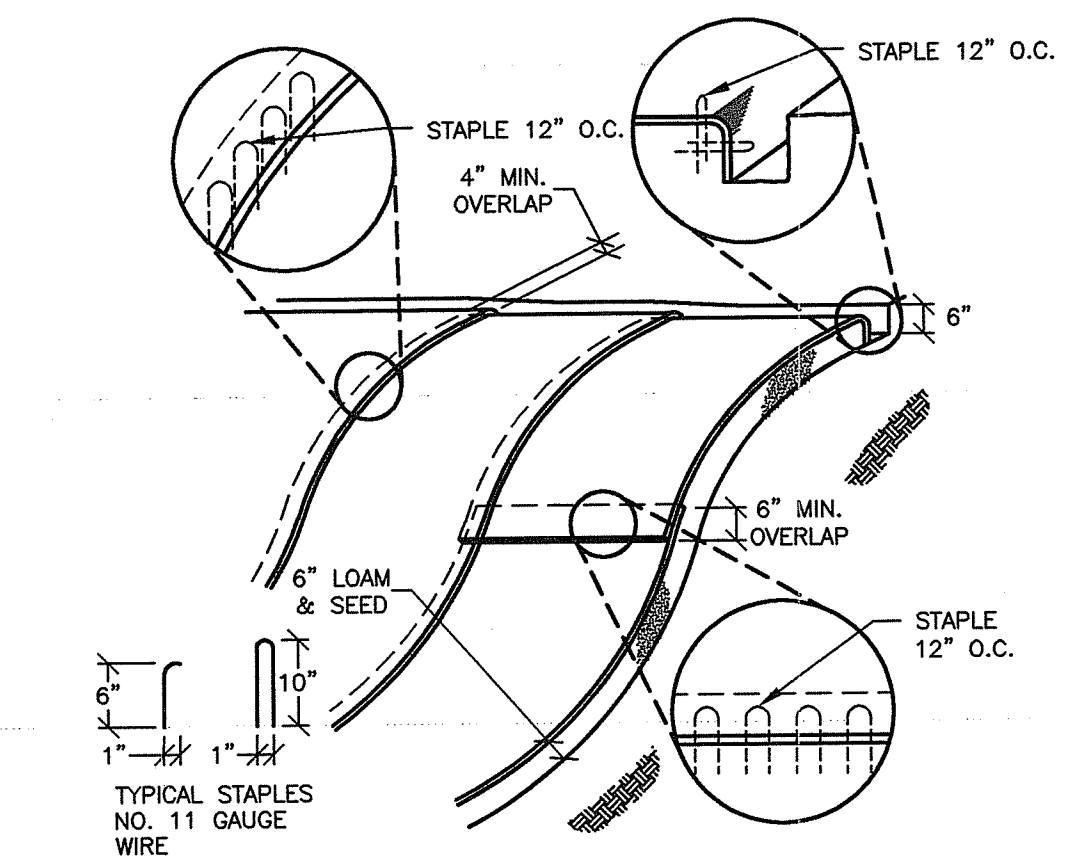


- NOTES:**
1. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN PRODUCTS P300 OR APPROVED EQUIVALENT.
 2. EROSION CONTROL BLANKET SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

EARTHEN EMERGENCY SPILLWAY
NTS wood_8.14

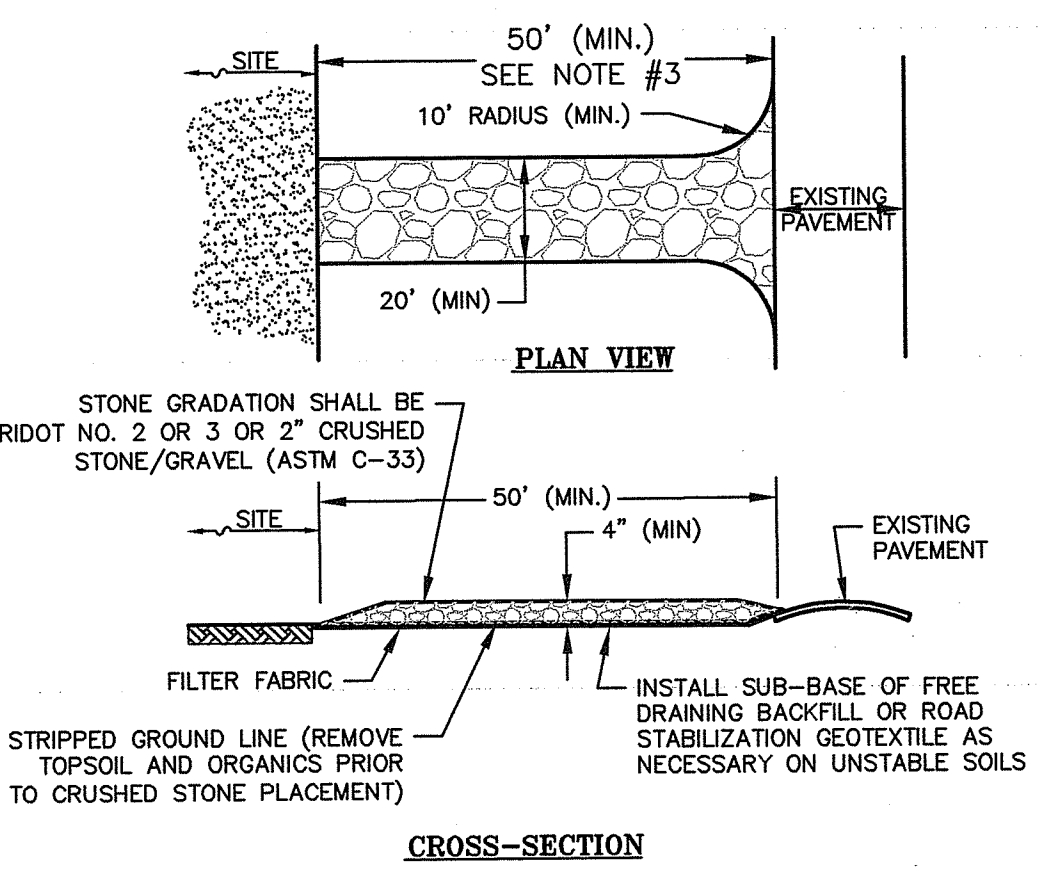


STILLING BASIN-OUTLET CONTROL
NTS CA-D-031A



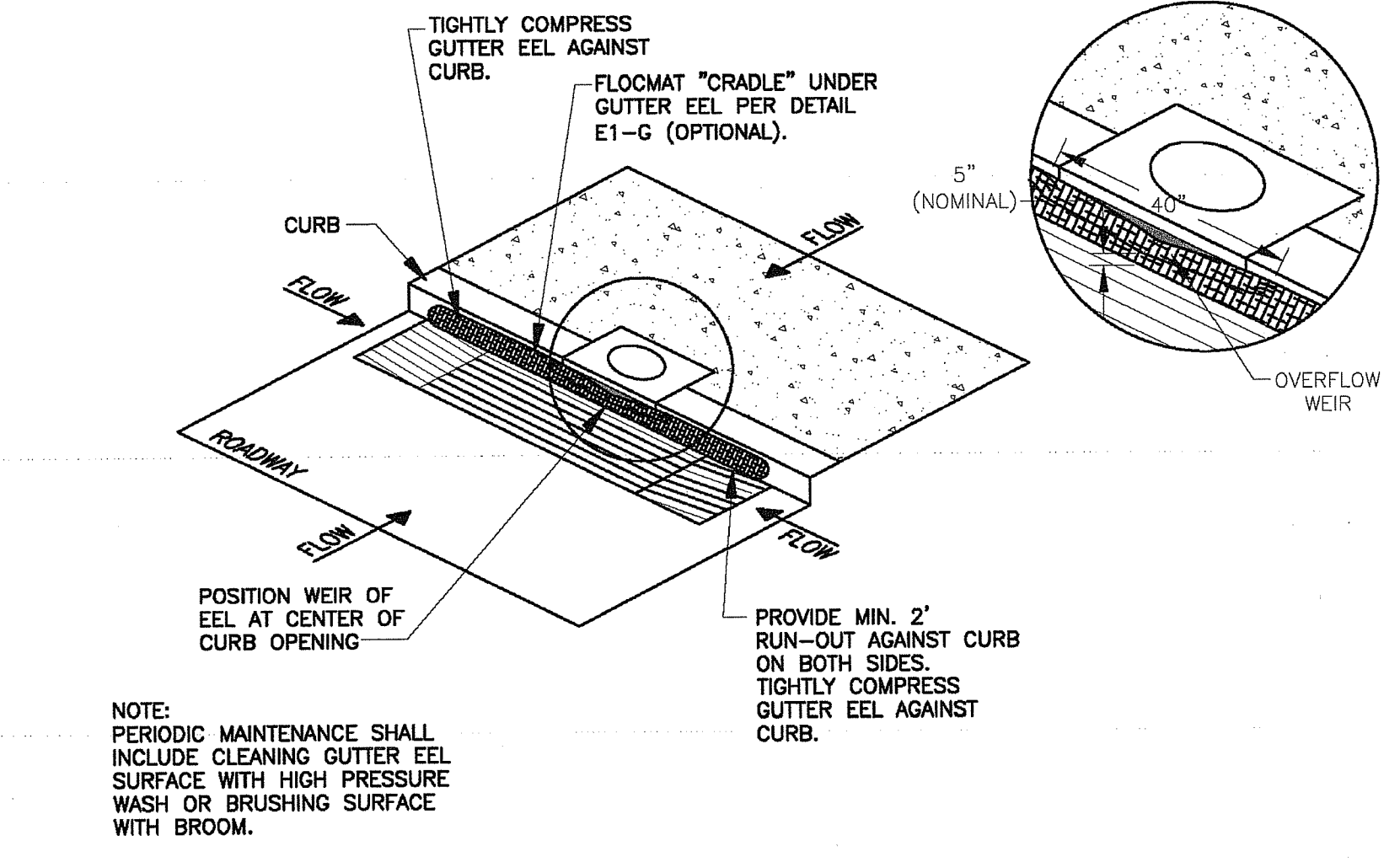
- NOTES:**
1. BEGIN AT TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH. BACKFILL AND COMPACT TRENCH AFTER STAPLING.
 2. ROLL THE BLANKET DOWN THE SLOPE.
 3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4" OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
 4. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE UPPER BLANKET END OVER LOWER END WITH 6" MIN. OVERLAP AND STAPLE BOTH TOGETHER.
 5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
 6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPES EXCEED 3H:1V, OR AS NOTED OTHERWISE ON THE PLANS.

EROSION CONTROL BLANKET - SLOPE INSTALLATION
NTS wood_9.3

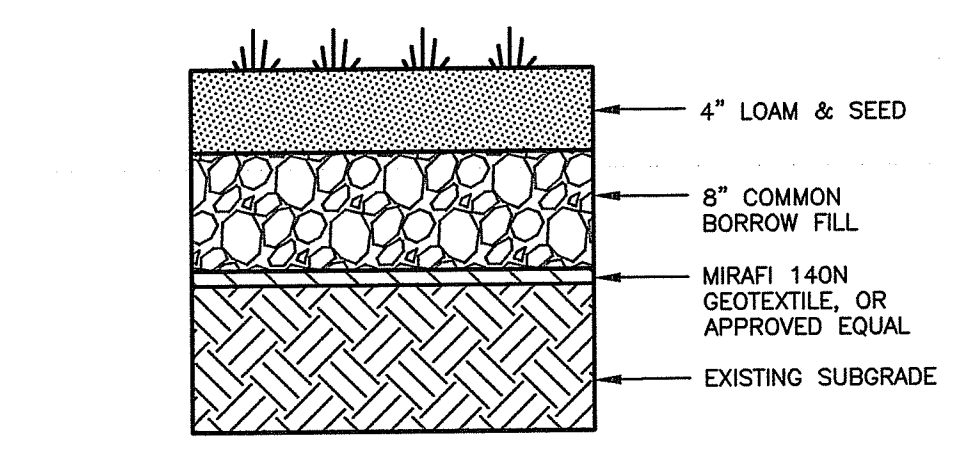


- NOTES:**
1. ENTRANCE WIDTH SHALL BE TWENTY (20) FEET WIDE MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND. REPAIR ANY MEASURES USED TO TRAP SEDIMENT AS NEEDED. IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES. ROADS ADJACENT TO A CONSTRUCTION SITE SHALL BE LEFT CLEAN AT THE END OF EACH DAY.
 3. 50 FEET MINIMUM WHERE THE SOILS ARE SANDS OR GRAVELS OR 100 FEET MINIMUM WHERE SOILS ARE CLAYS OR SILTS. EXPECT WHERE THE TRAVELED LENGTH IS LESS THAN 50 OR 100 FEET RESPECTIVELY.

TEMPORARY CONSTRUCTION EXIT
NTS wood_8.16

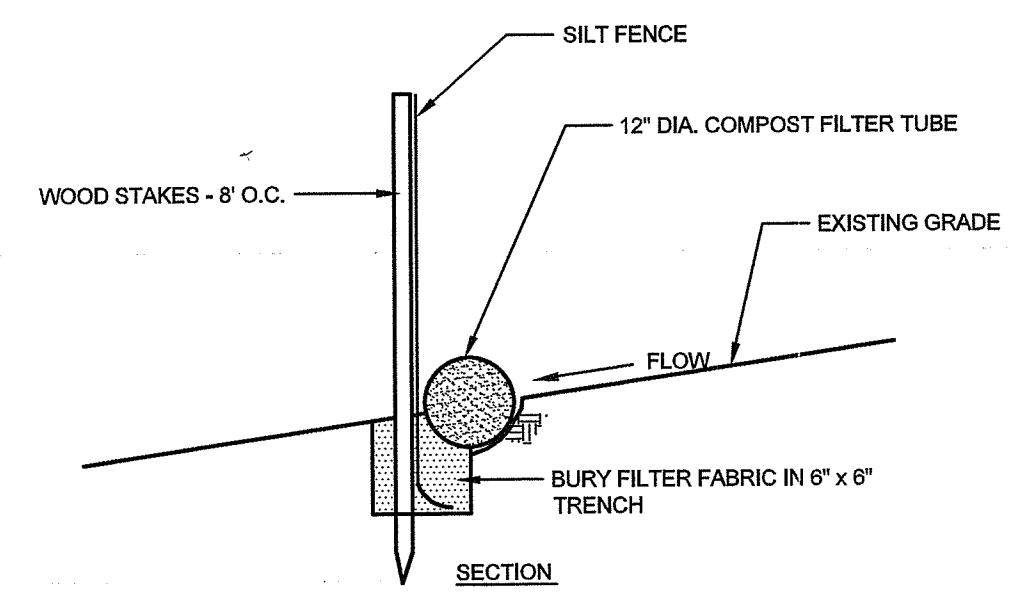


SMALL CURB INLET SEDIMENT TRAP - GUTTER EEL
NTS ISOMETRIC DETAIL E3-C

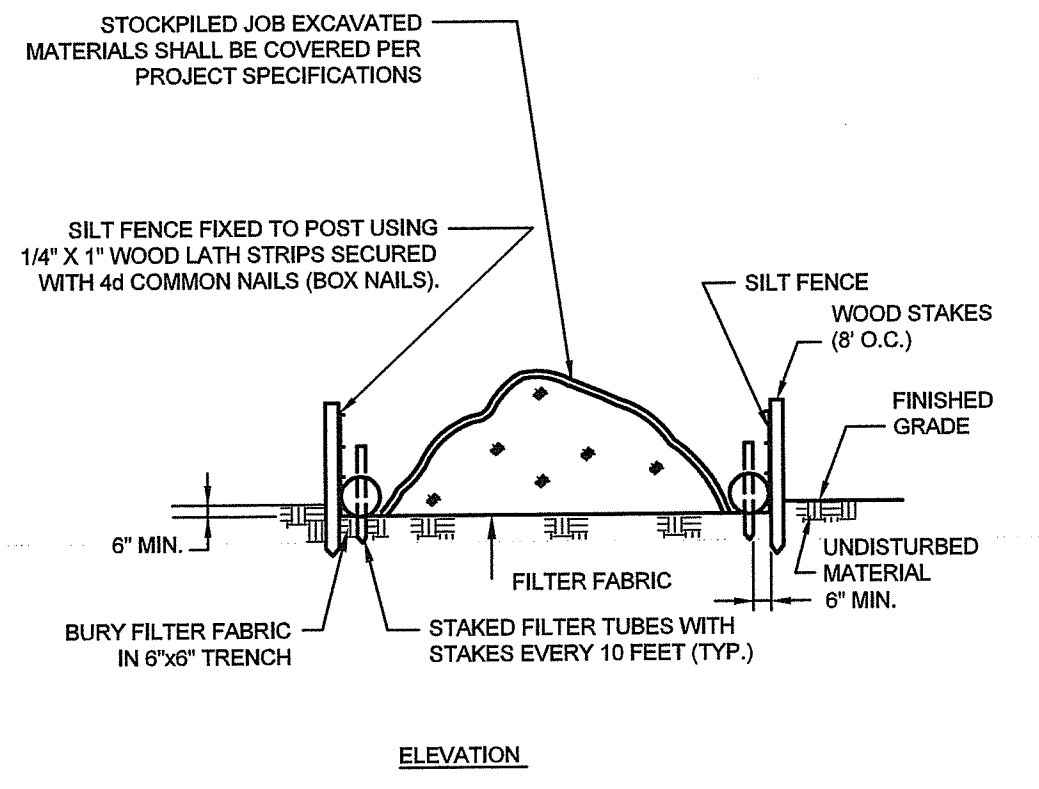


- NOTE:**
1. 2 FEET OF CLEAN FILL CONSISTING OF 4" LOAM & SEED AND 20" COMMON BORROW FILL MAY BE USED IN LIEU OF GEOTEXTILE.

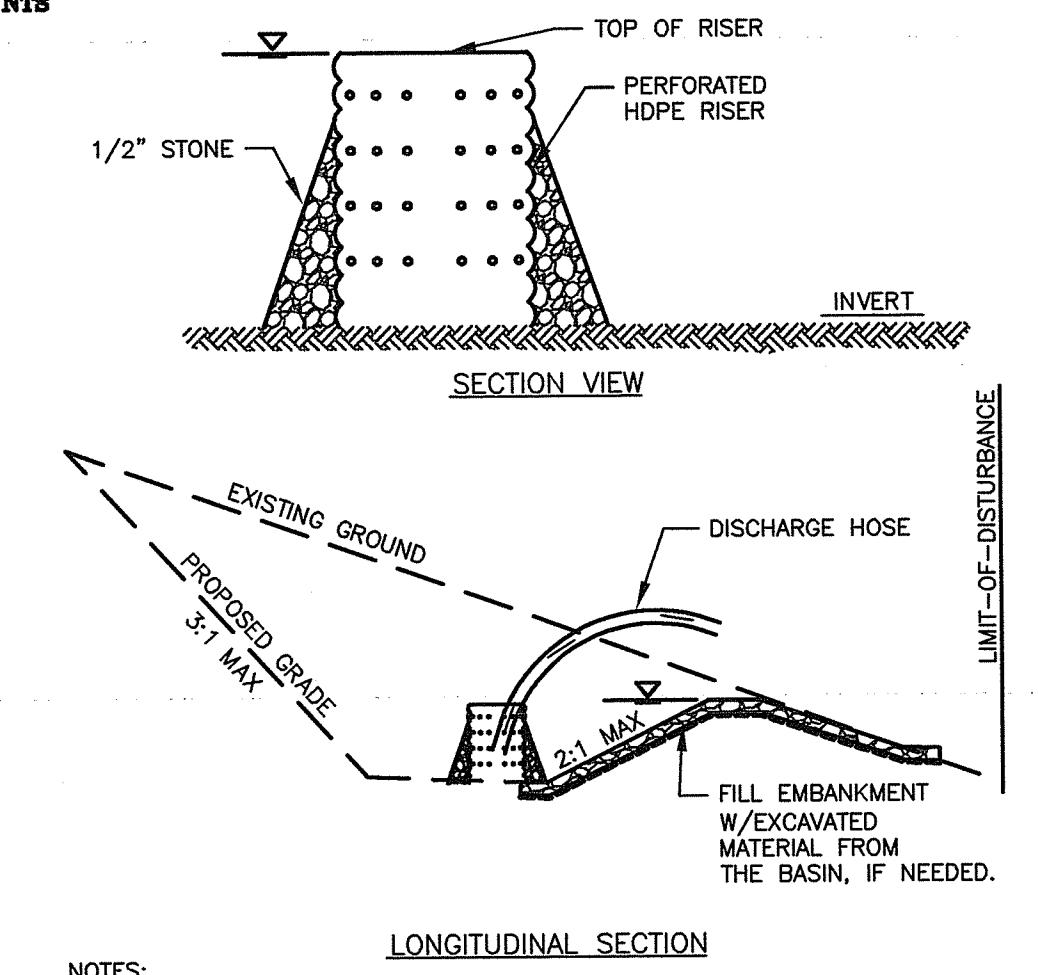
LANDSCAPE AREAS
NTS wood_7.19



COMPOST FILTER TUBE/SILT FENCE
SCALE



STOCKPILED MATERIAL
NTS



- NOTES:**
1. TRAP CAPACITY: TEMPORARY SEDIMENT TRAP 134 CY/CONTRIBUTING ACRE AND 50% OF THIS VOLUME SHALL BE WET STORAGE.
 2. TOTAL MIN. STORAGE VOLUME = 1" X CONTRIBUTING AREA.
 3. SEDIMENT SHALL BE REMOVED WHEN THE BASIN IS 1/2" FULL AT A MINIMUM.
 4. THE BASIN SHALL REMAIN IN PLACE UNTIL THE SITE HAS BEEN STABILIZED WITH BUILDINGS, PAVEMENT, OR ESTABLISHED VEGETATION, AS APPLICABLE.

TEMPORARY SEDIMENT TRAP
NTS

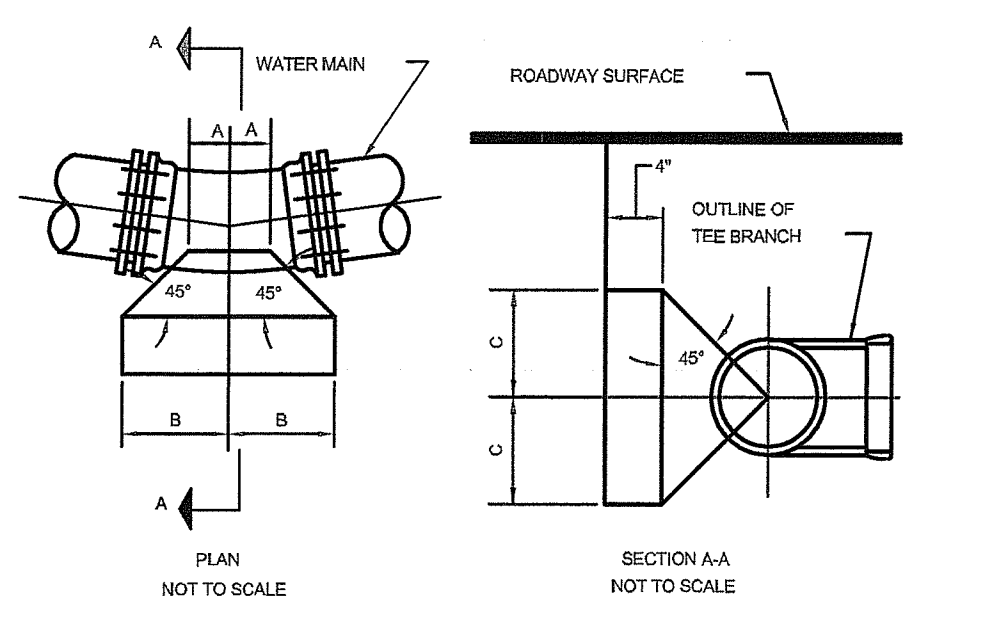
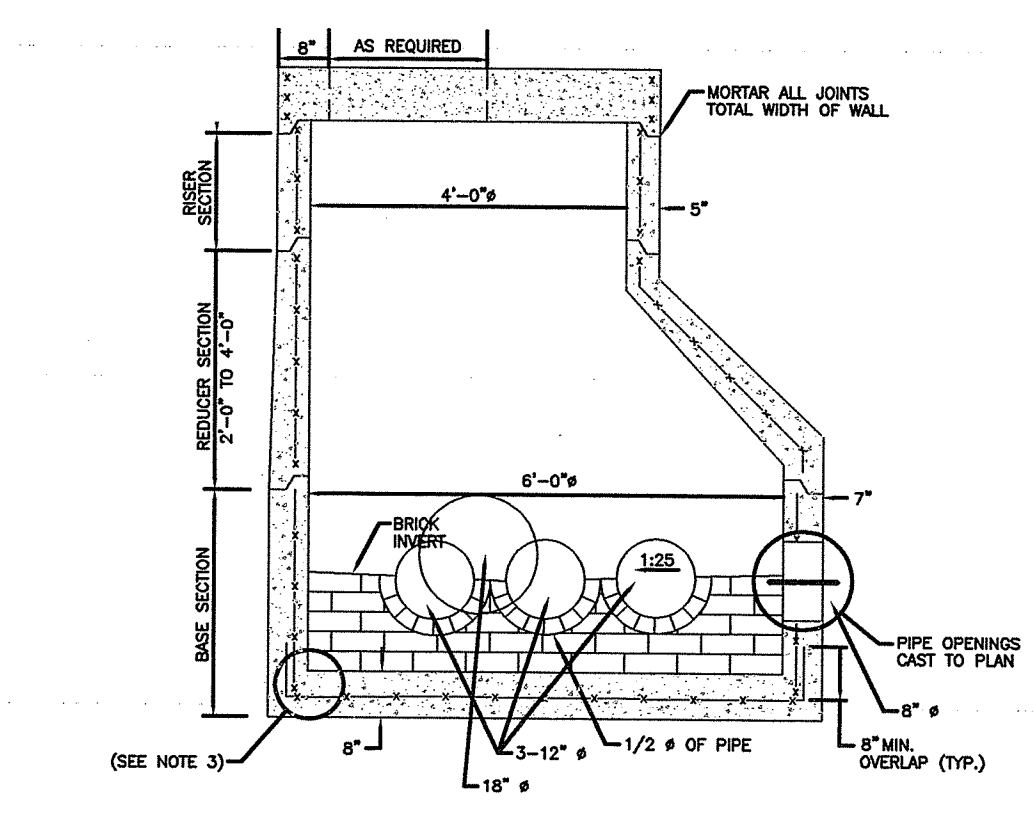
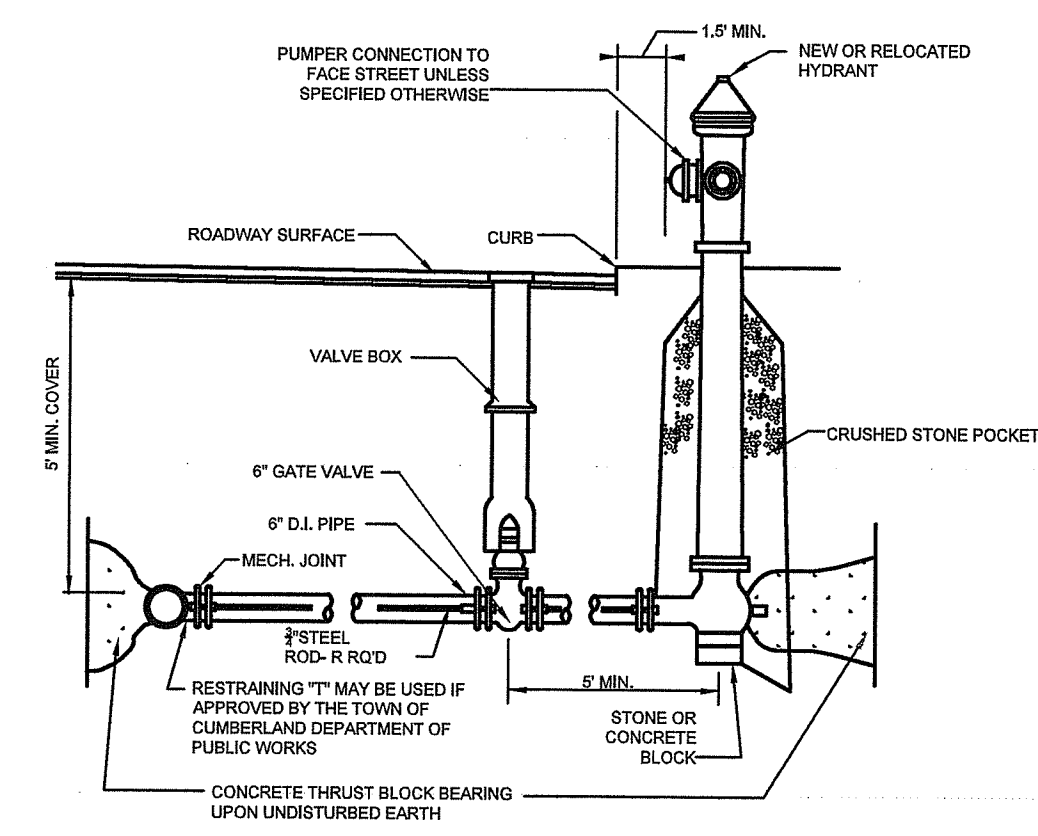
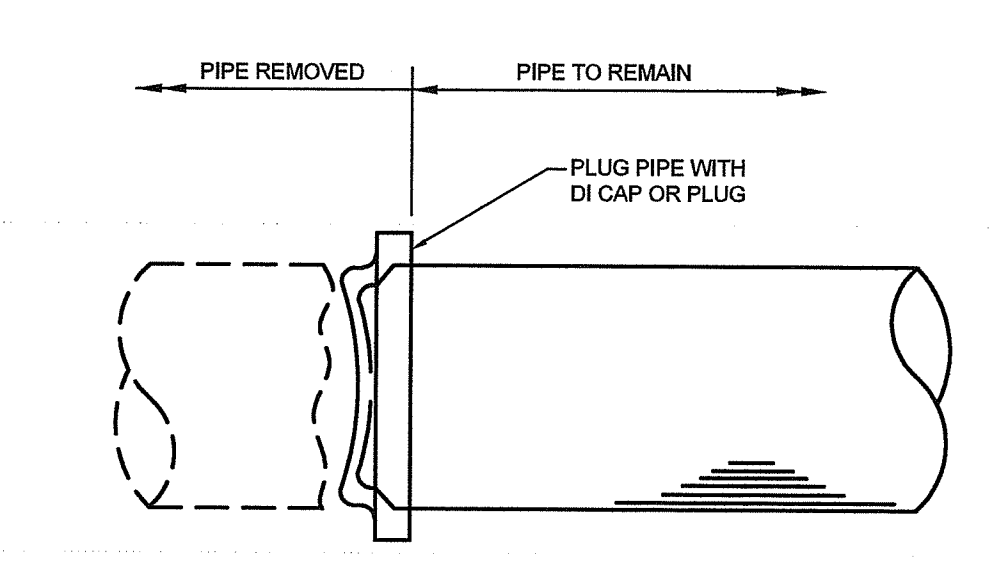
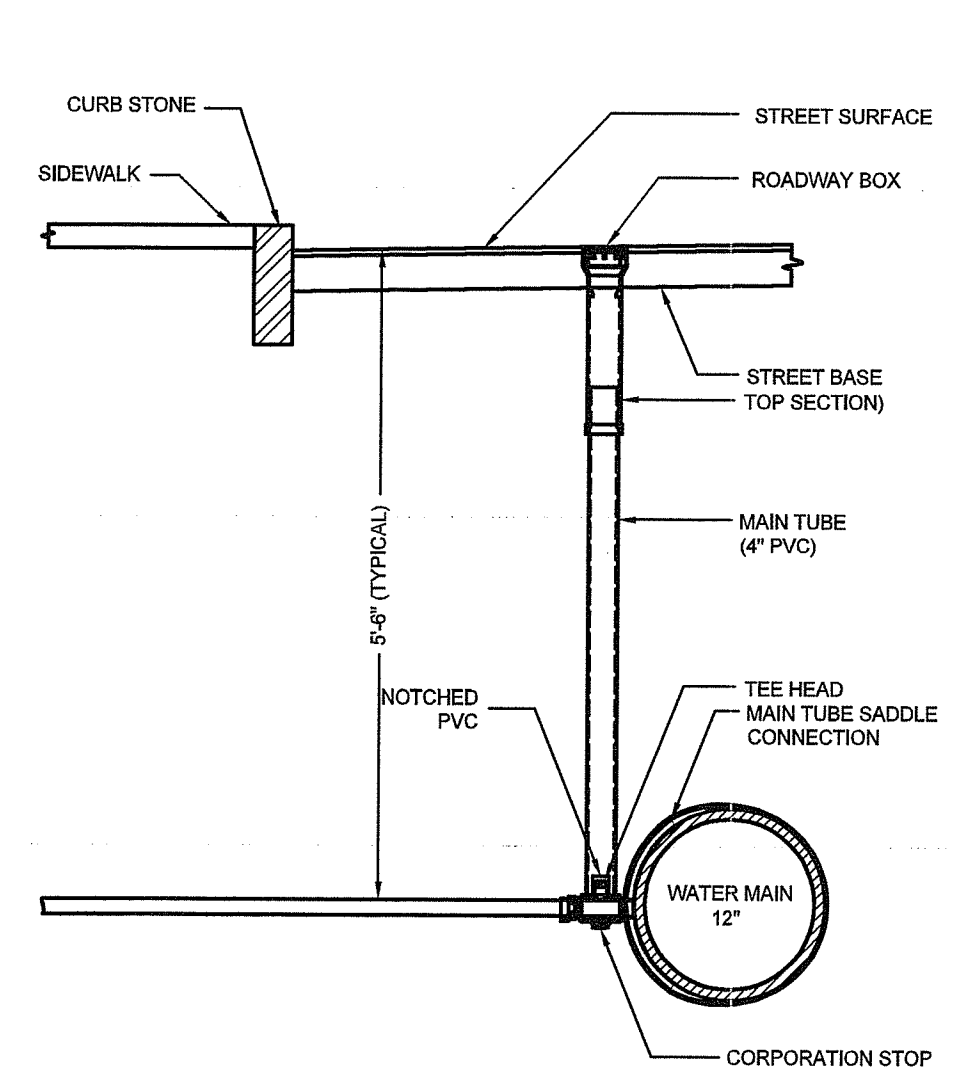
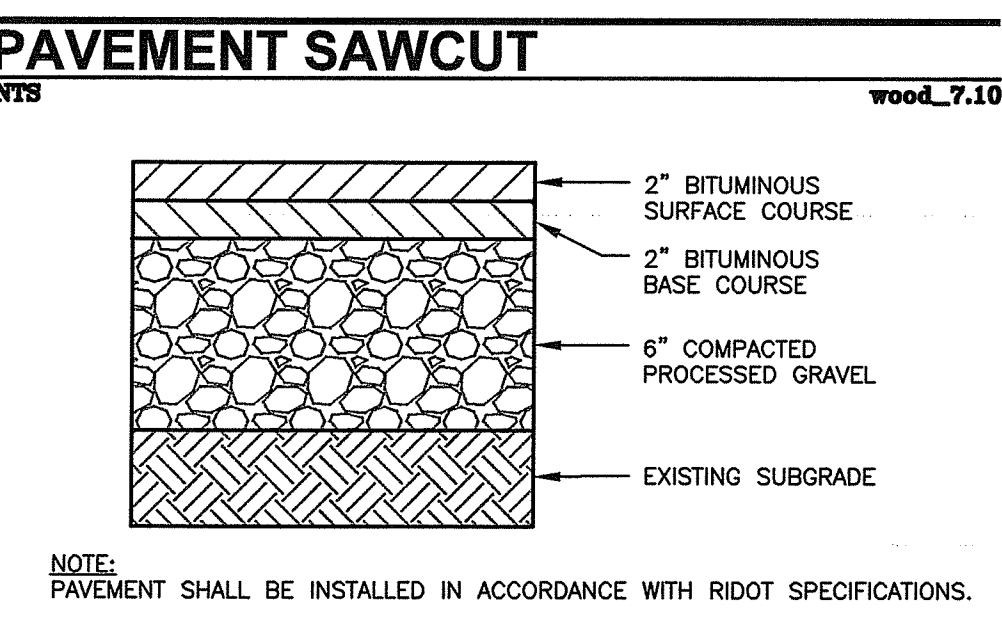
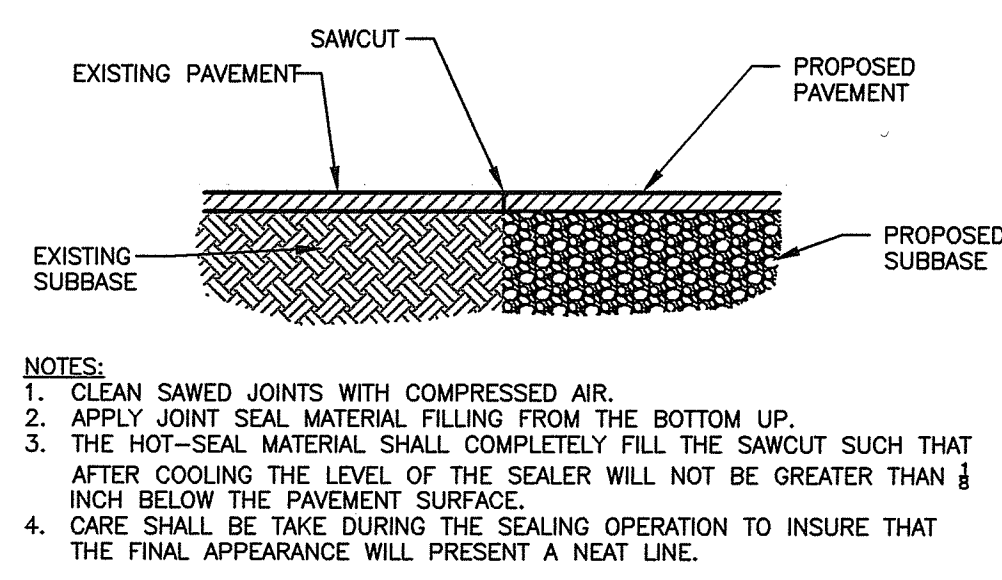
Temporary Sediment Trap Calculations

	TRAP #1
Drainage Area, sq.ft. *	20,000
Drainage Area, acres *	0.46
Required Storage Volume, cu.yd. (drainage area, acres x 134 cu.yd./acre)	62
Proposed Temporary Sediment Trap Area, sq.ft.	1,260
Proposed Temporary Sediment Bottom Trap Area, sq.ft.	294
Proposed Temporary Sediment Trap Depth, ft.	3
Proposed Temporary Sediment Trap Storage Volume, cu.yd.	86

*NOTE: DRAINAGE AREA IS EQUAL TO TOTAL DISTURBED AREA

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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SEE LETTER OF SAME DATE
Douglas L. Freeman

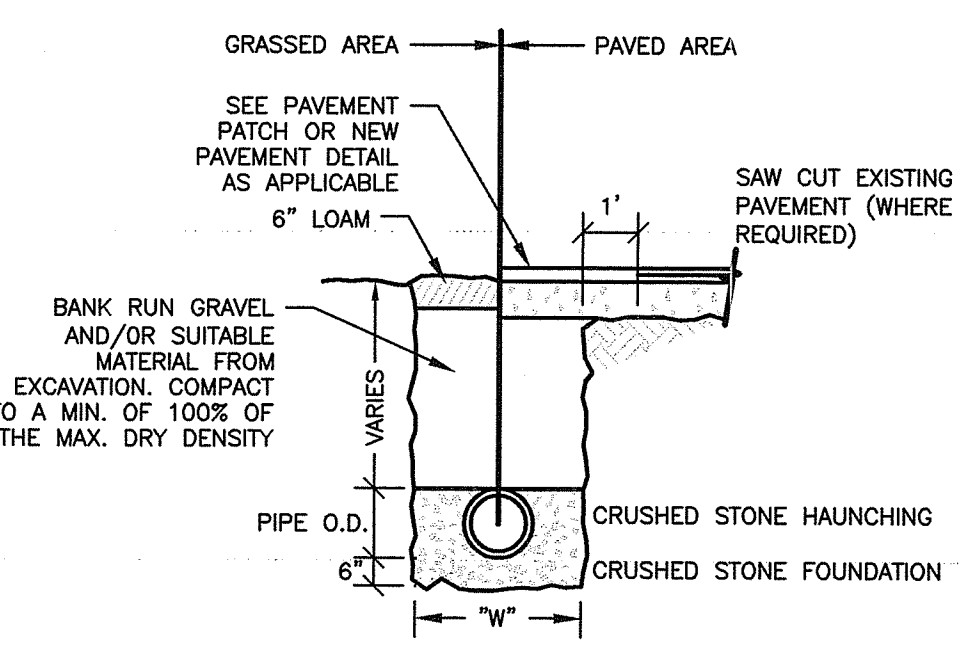
<p>WSP USA, INC. 275 PROMENADE STREET, SUITE 100 PROVIDENCE RHODE ISLAND, 02908 WEB: WWW.WOODPLC.COM (401) 648-9240</p>	<p>MICHAEL WILKINSON No. 13740 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>RHODE ISLAND DEPARTMENT OF TRANSPORTATION</p>	<p>DESIGNED BY: MPS CHECKED BY: KK DATE: 09/28/2022 SHEET: 15 OF: 17</p>	<p>SCALE: 1"=40'</p>	<p>STORMWATER MANAGEMENT IMPROVEMENTS MENDON ROAD (ROUTE 122)</p>
					<p>CUMBERLAND RHODE ISLAND</p>



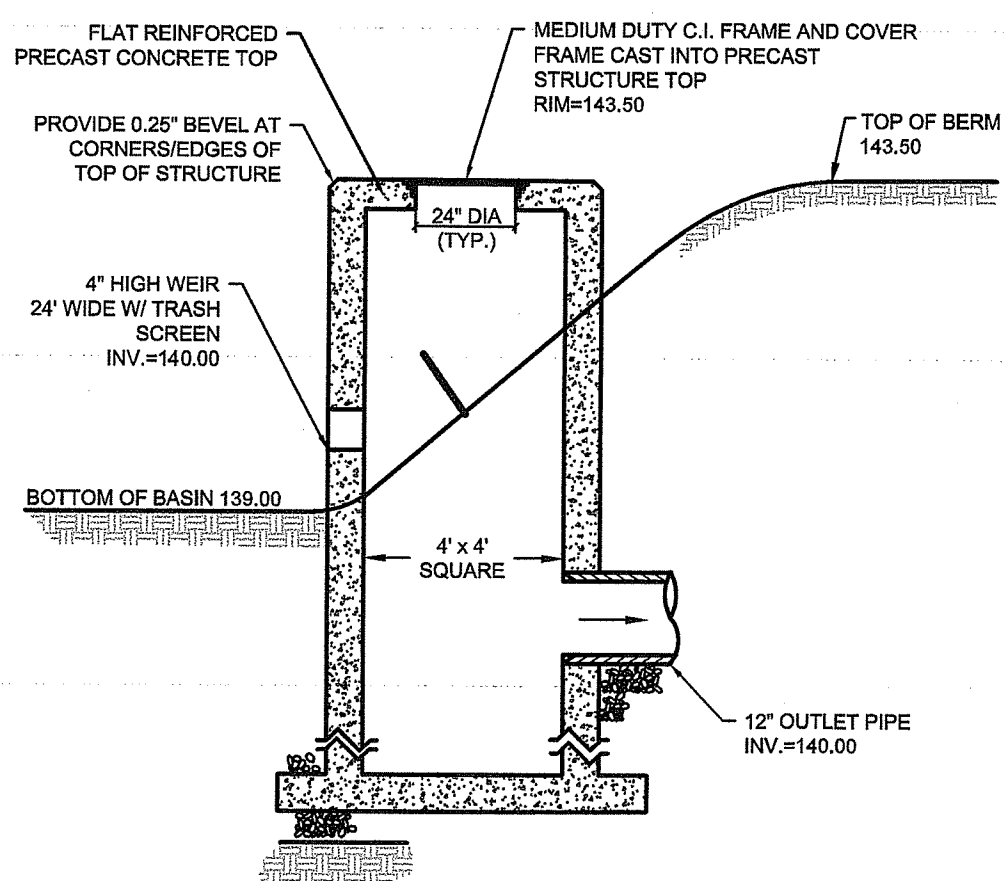
HORIZONTAL THRUST BLOCK SCHEDULE
TABLE OF DIMENSIONS IN INCHES

6", 8" BEND	A	B	C
11 1/4", 22 1/2"	6"	10"	10"
45°	6"	14"	14"
90°	6"	18"	18"
10", 12" BEND	A	B	C
11 1/4", 22 1/2"	6"	14"	14"
45°	6"	20"	20"
90°	6"	27"	27"
TEE (BRANCH) CAP	A	B	C
6"	6"	18"	18"
8"	6"	18"	18"
10"	6"	18"	18"
12"	6"	22"	22"

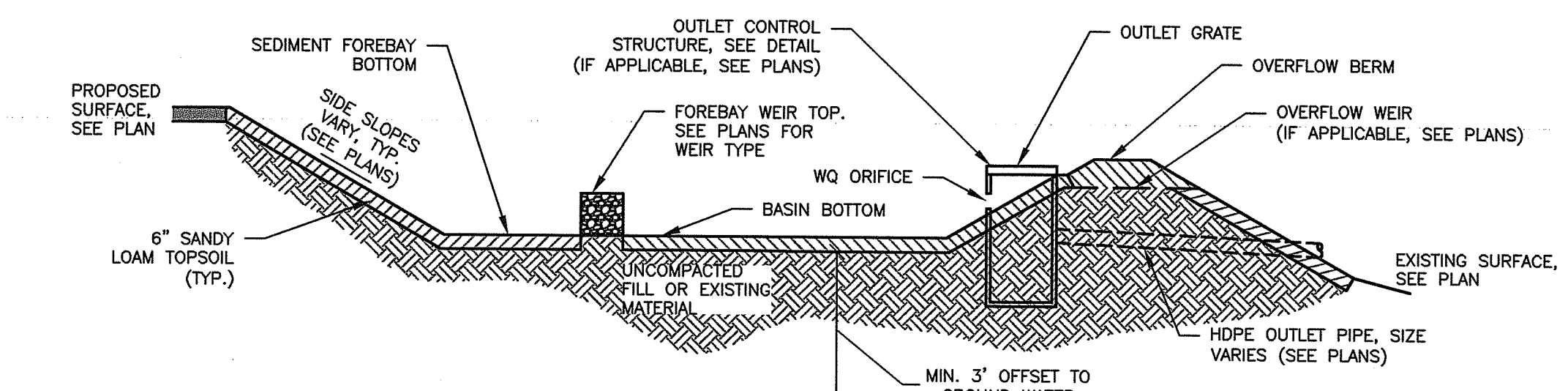
NOTE: REFER TO SPECIFICATIONS FOR MATERIAL REQUIREMENTS. SUBJECT TO FIELD MODIFICATION BY ENGINEER.



- NOTES:
1. WIDTH (W) OF TRENCH IS EQUAL TO THE INSIDE DIAMETER OF THE PIPE PLUS 12".
2. SOIL UNDER CRUSHED STONE FOUNDATION SHALL BE UNDISTURBED AND COMPACTED WITH SEVERAL PASSES OF A VIBRATORY PLATE COMPACTOR.
3. CRUSHED STONE FOUNDATION 3/4" MAXIMUM SIZE SHALL BE PLACED 6" UNDER THE PIPE AND UP TO THE PIPE GRADE, THE PIPE LAD THEREON, CRUSHED STONE PULLED AGAINST THE PIPE SIDES TO FIRMLY HOLD THE PIPE IN PLACE.
4. CRUSHED STONE HAUNCHING 3/4" MAXIMUM SIZE SHALL BE BROUGHT LEVEL TO THE TOP OF THE PIPE AND OUT TO THE TRENCH WALL AT THIS ELEVATION FOR ALL PIPE.



- WATER NOTES:**
1. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING UTILITY LOCATIONS PRIOR TO FINALIZING WATER MAIN LAYOUT. EXACT LAYOUT OF THE NEW WATER MAIN, VALVES, AND FITTINGS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
2. INSTALL MECHANICAL THRUST RESTRAINT AT ALL MECHANICAL JOINTS, BENDS, TEES, CROSSES, COUPLINGS, AND HYDRANTS.
3. REMOVE AND DISPOSE OFF-SITE ANY ABANDONED WATER MAIN OR SERVICES APPEARING IN THE SAME TRENCH AS PROPOSED WATER MAIN, HYDRANTS, AND SERVICES AT NO ADDITIONAL COST TO THE OWNER.
4. THE WATER MAIN WORK SHALL INCLUDE CONSTRUCTION OF CONCRETE THRUST BLOCKS AT ALL BELOW GRADE BENDS. CONCRETE THRUST BLOCKS SHALL BE OF THE MINIMUM SIZE AS SHOWN ON THE TABLE (SEE THRUST BLOCK DETAIL) AND ALLOW 48 HOURS FOR CURING BEFORE PRESSURIZING THE LINE. CONSTRUCT THRUST BLOCKS AGAINST UNDISTURBED SOIL. WRAP FITTINGS WITH POLYETHYLENE PRIOR TO CONSTRUCTING THRUST BLOCKS. NO JOINTS SHALL BE COVERED WITH CONCRETE.
5. ALL WATER PIPE SHALL BE CEMENT LINED DUCTILE IRON (C.L.D.) MECHANICAL JOINT, THICKNESS CLASS 52 INSULATED PIPE, WEIGHT, CLASS, MANUFACTURER'S MARK, YEAR OF PRODUCTION, AND "D.I." OR "DUCTILE" SHALL BE CAST OR STAMPED ON EACH SECTION OF PIPE.
6. DE-CHLORINATION OF WATER USED FOR DISINFECTION OF THE NEW WATER MAINS SHALL BE REQUIRED. APPROPRIATE LEAKAGE TESTING SHALL BE PROVIDED FOR PROPOSED WATER LINE.
7. ALL EXPOSED PORTIONS OF THE WATER MAIN, AND BURIED PORTIONS LESS THAN 5' BELOW GRADE, ARE TO BE INSULATED AS DESCRIBED IN THE SPECIFICATIONS. INSULATION NOT SHOWN FOR CLARITY PURPOSES, BUT SHALL BE PROVIDED AS REQUIRED.
8. CONTRACTOR IS RESPONSIBLE FOR RESTRAINING EXISTING VALVES DURING INSTALLATION OF NEW WATER MAIN OR HYDRANTS.
9. WHEN GATE VALVES ARE NOT FOUND DURING FIELD SURVEY, CONTRACTOR SHALL LOCATE EXISTING VALVES PRIOR TO INSTALLING NEW WATER MAINS OR BRANCHES.
10. TEST PITS SHALL BE PERFORMED TO VERIFY MATERIAL OF EXISTING WATER PIPES PRIOR TO ORDERING PRODUCTS FOR ALL PROPOSED WATER WORK.
11. ALL COUPLINGS CONNECTED TO EXISTING PIPES SHALL BE RESTRAINED INSULATING MECHANICAL TRANSITION COUPLINGS.



BASIN ID	SEDIMENT FOREBAY TOP	SEDIMENT FOREBAY BOTTOM	FOREBAY WEIR	BASIN TOP	BASIN BOTTOM	OVERFLOW WEIR	OUTLET CONTROL STRUCTURE GRATE	WQ ORIFICE	OUTLET PIPE INVERT
INFILTRATION BASIN 1	144.0'	139.0'	142.0'	144.0'	139.0'	143.5'	142.0'	4" x 24"W, 120.0'	140.0'

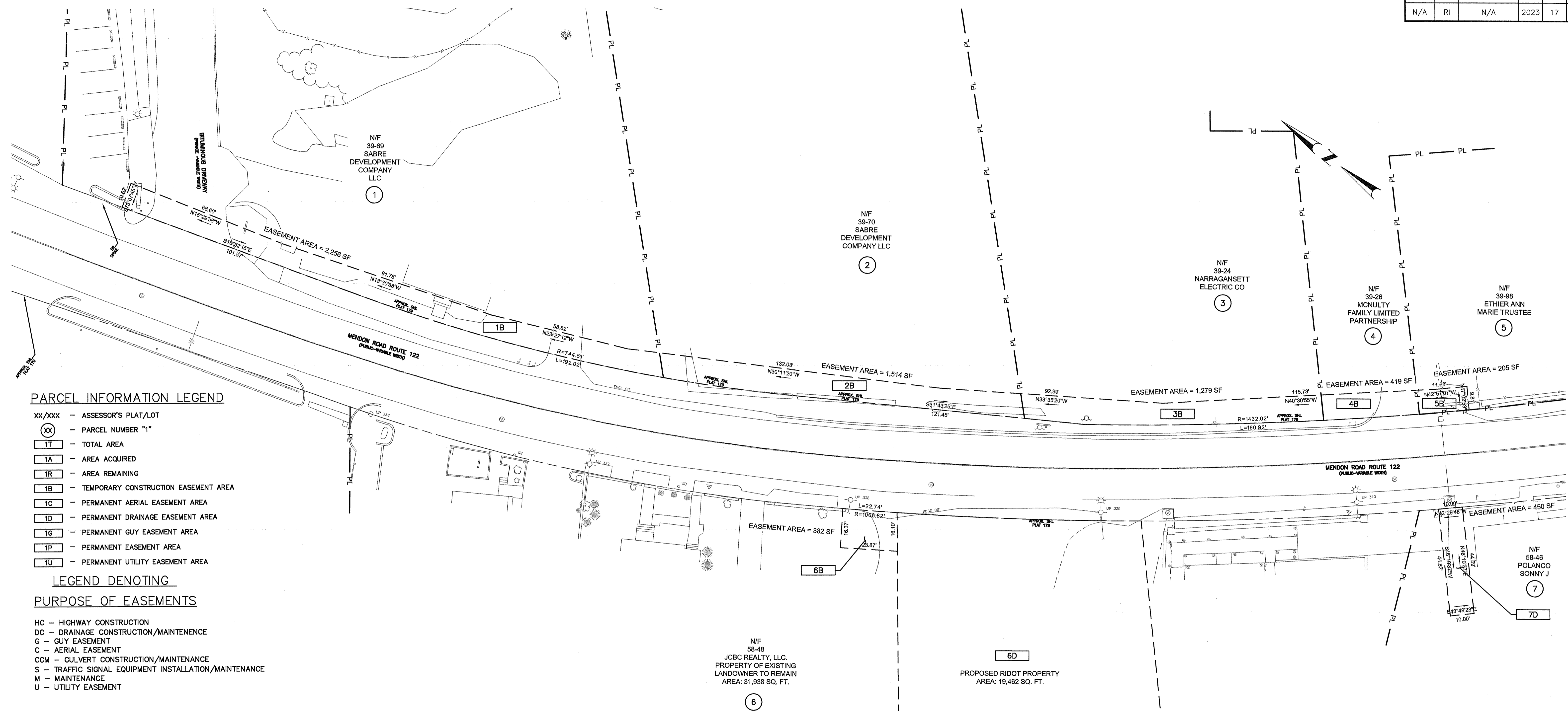
BASIN ID	TEST HOLE (TH) USED FOR GROUNDWATER DEPTH	SURFACE ELEVATION AT TH	DEPTH TO GROUNDWATER	GROUNDWATER ELEVATION	OFFSET FROM BASIN BOTTOM
INFILTRATION BASIN 1	TH-1	144.0'	> 8"10"	< 135.2'	> 3.8'

- NOTES:
1. SIDE SLOPES SHALL BE 3:1 MAX. SEE PLANS.
2. OUTLET CONTROL STRUCTURE (IF APPLICABLE) SHALL BE EMBEDDED IN BASIN SIDE SLOPE.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Nancy L. Freeman

INFILTRATION BASIN & SEDIMENT FOREBAY CROSS-SECTION
NTS wood_3.17.1

<p>WSP USA, INC. 275 PROMENADE STREET, SUITE 100 PROVIDENCE RHODE ISLAND, 02908 WEB: WWW.WOODPLC.COM (401) 646-9240</p>	<p>MICHAEL WILKINSON No. 13740 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>RHODE ISLAND DEPARTMENT OF TRANSPORTATION</p>	<p>RI Environmental Management Office of Water Resources OCT 03 2022</p>	DESIGNED BY: MPS CHECKED BY: KK DATE: 09/28/2022 SHEET: 16 OF: 17	SCALE: 1"=40' 	STORMWATER MANAGEMENT IMPROVEMENTS MENDON ROAD (ROUTE 122) CUMBERLAND RHODE ISLAND DETAILS - 2
				REVISIONS NO. DATE BY NO. DATE BY		



PARCEL INFORMATION LEGEND

- XX/XXX - ASSESSOR'S PLAT/LOT
- (XX) - PARCEL NUMBER "I"
- 1T - TOTAL AREA
- 1A - AREA ACQUIRED
- 1R - AREA REMAINING
- 1B - TEMPORARY CONSTRUCTION EASEMENT AREA
- 1C - PERMANENT AERIAL EASEMENT AREA
- 1D - PERMANENT DRAINAGE EASEMENT AREA
- 1G - PERMANENT GUY EASEMENT AREA
- 1P - PERMANENT EASEMENT AREA
- 1U - PERMANENT UTILITY EASEMENT AREA

LEGEND DENOTING

PURPOSE OF EASEMENTS

- HC - HIGHWAY CONSTRUCTION
- DC - DRAINAGE CONSTRUCTION/MAINTENANCE
- G - GUY EASEMENT
- C - AERIAL EASEMENT
- CCM - CULVERT CONSTRUCTION/MAINTENANCE
- S - TRAFFIC SIGNAL EQUIPMENT INSTALLATION/MAINTENANCE
- M - MAINTENANCE
- U - UTILITY EASEMENT

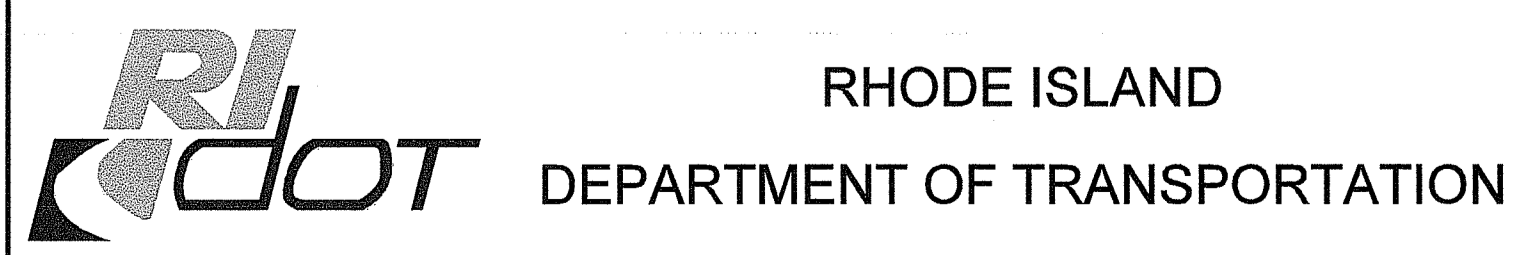
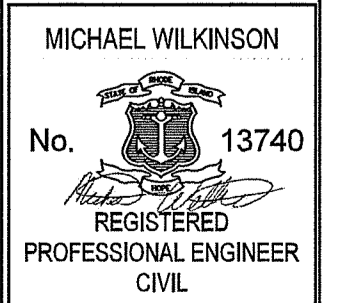
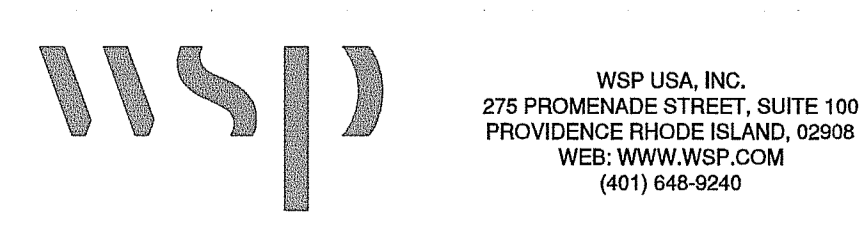
PLAT NO. 39 INDEX OF OWNERS

SHEET NO.	PARCEL NO.	ASSESSOR'S		OWNER OR CLAIMANT	TOTAL AREA (±)	PARCEL NO.	HIGHWAY TAKING	REMAINING AREA (±)	PARCEL NO.	TEMPORARY EASEMENT AREA (±)	PURPOSE	PARCEL NO.	PERMANENT EASEMENT	PURPOSE
		PLAT	LOT											
15	1	39	69	SABRE DEVELOPMENT COMPANY LLC	NO.				1	2,256 SQ. FT.	DC			
15	2	39	70	SABRE DEVELOPMENT COMPANY LLC.	NO.				2	1,514 SQ. FT.	DC			
15	3	39	24	NARRAGANSETT ELECTRIC CO.	NO.				3	1,279 SQ. FT.	DC			
15	4	39	26	MCNULTY FAMILY LIMITED PARTNERSHIP	NO.				4	419 SQ. FT.	DC			
15	5	39	98	ETHER ANN MARIE TRUSTEE.	NO.				5	205 SQ. FT.	DC			

PLAT NO. 58 INDEX OF OWNERS

SHEET NO.	PARCEL NO.	ASSESSOR'S		OWNER OR CLAIMANT	TOTAL AREA (±)	PARCEL NO.	HIGHWAY TAKING	REMAINING AREA (±)	PARCEL NO.	TEMPORARY EASEMENT AREA (±)	PURPOSE	PARCEL NO.	PERMANENT EASEMENT	PURPOSE
		PLAT	LOT											
15	6	58	48	JCBC REALTY, LLC.	NO.				6	382 SQ. FT.	DC			
15	6	58	48	JCBC REALTY, LLC.	NO.				6	19,891 SQ. FT.	DC			
15	7	58	46	POLANCO SONNY J	NO.				7	450 SQ. FT.	DC			

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 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 REVIEWED SITE PLAN APPLICATION #: 22-0467
 DATED: NOV 28 2022
 SEE LETTER OF SAME DATE
Nancy L. Freeman



DESIGNED BY: MPS
 CHECKED BY: KK
 DATE: 09/28/2022
 SHEET: 17
 OF: 17

SCALE: 1" = 20'

REVISIONS		REVISIONS			
NO.	DATE	BY	NO.	DATE	BY

STORMWATER MANAGEMENT IMPROVEMENTS
MENDON ROAD (ROUTE 122)
 CUMBERLAND
 RHODE ISLAND
EASEMENT PLAN