

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

INDEX

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	STANDARD PLAN SYMBOLS & STANDARD LEGEND
3-4	STANDARD NOTES 1 - 2
5	JOB SPECIFIC PLAN SYMBOLS, LEGEND AND NOTES
6-10	KEY PLANS 1 - 5
11	TYPICAL SECTIONS
12 - 13	MISCELLANEOUS DETAILS 1 & 2
14 - 15	WHEELCHAIR RAMP CHARTS 1 & 2
16 - 51	GENERAL PLANS 1 - 36 (SEE RIDEM NOTE)
52 - 56	LOCATION PLANS 1 - 5
57 - 74	SIGNING AND STRIPING PLANS 1 - 15
75	SIGNING AND STRIPING DETAILS
76	MAINTENANCE & PROTECTION OF TRAFFIC PLANS 1 - 4

STATE OF RHODE ISLAND

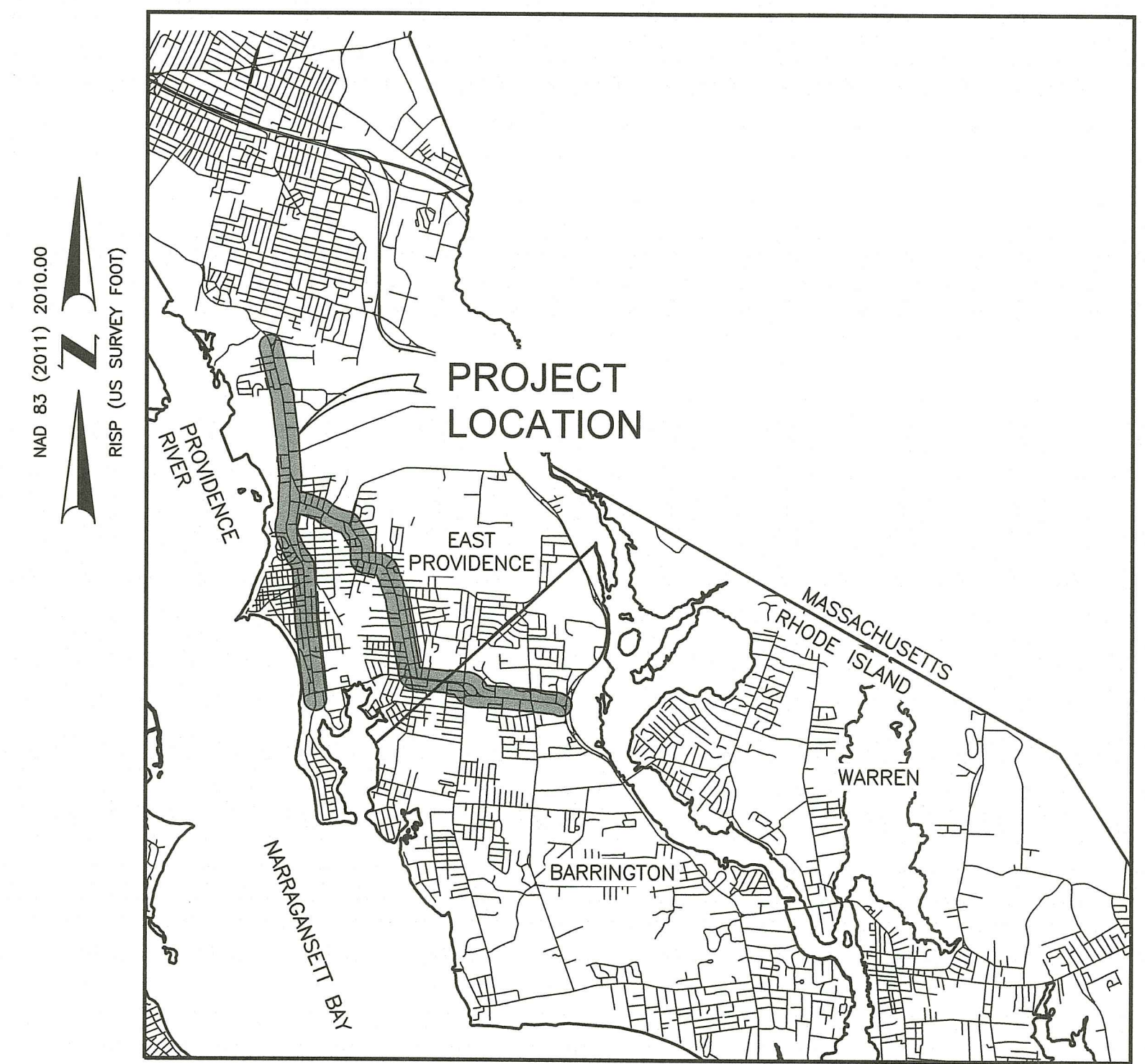


DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED STATE HIGHWAY

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN

ROUTE 103/103A - PAWTUCKET AVE. AND BULLOCKS POINT AVE.
(VETERANS MEMORIAL PARKWAY TO CRESCENT VIEW AVENUE)
COUNTY ROAD (BULLOCKS POINT AVE. TO WAMPANOAG TRAIL)



LOCATION MAP
NOT TO SCALE

R.I.D.E.M. NOTE:

ONLY PROJECT PLANS APPLICABLE HAVE BEEN SUBMITTED FOR REVIEW. GENERAL PLANS 7, 11, 20-27 SEE APPLICATION NARRATIVE.

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.

CITY OF EAST PROVIDENCE, TOWNS OF BARRINGTON AND WARREN

COUNTIES OF PROVIDENCE AND BRISTOL

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

PAVEMENT STRUCTURE

2" MODIFIED CLASS 12.5 HMA WITH PAY ADJUSTMENTS

PROJECT LENGTH = 6.6± MILES

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

DESIGN DESIGNATION

PAWTUCKET AVENUE	BULLOCKS POINT AVENUE
2022 AADT = 23,364 V.P.D.	2022 AADT = 10,401 V.P.D.
2042 AADT = 28,600 V.P.D.	2042 AADT = 12,700 V.P.D.
2022 DHV = 1,779 V.P.H.	2022 DHV = 835 V.P.H.
2042 DHV = 2,200 V.P.H.	2042 DHV = 1,050 V.P.H.
D = 60% / 40%	D = 59% / 41%
K = 7.6%	K = 8.0%
T = 2.2%	T = 5.5%
V = 35 MPH	V = 35 MPH

WILLETT AVENUE / COUNTY ROAD

2022 AADT = 10,529 V.P.D.
2042 AADT = 12,900 V.P.D.
2022 DHV = 1,037 V.P.H.
2042 DHV = 1,300 V.P.H.
D = 53% / 47%
K = 8.1%
T = 2.6%
V = 25 MPH

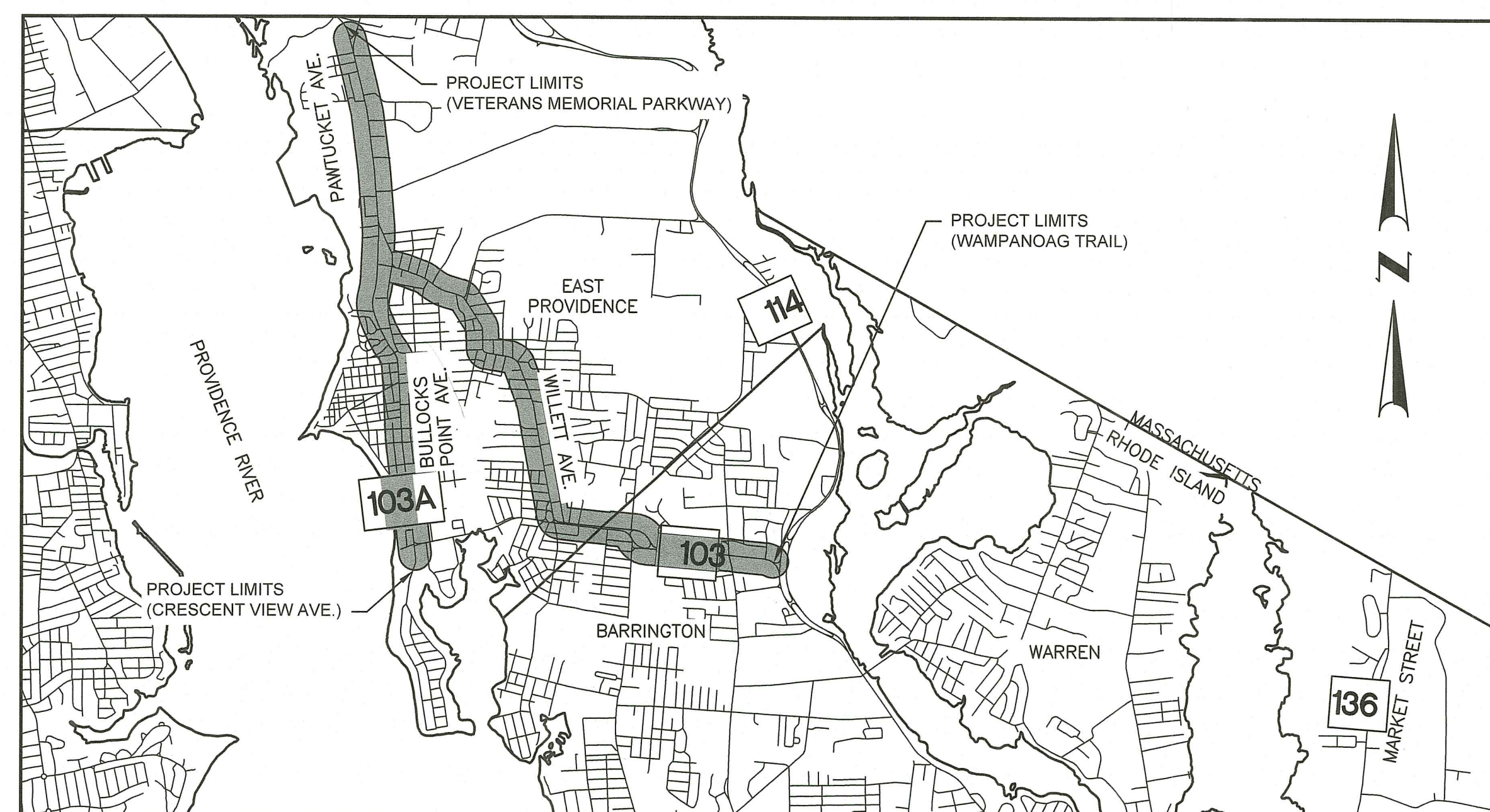
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
SUPPLEMENTAL SUBMISSION NO. 1
OCTOBER, 2023

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 13 2023 FILE # 23-0155
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

BRETT NEILAN
3746
REGISTERED PROFESSIONAL ENGINEER
CIVIL

RI Environmental Management
OCT 06 2023
Office of Water Resources

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



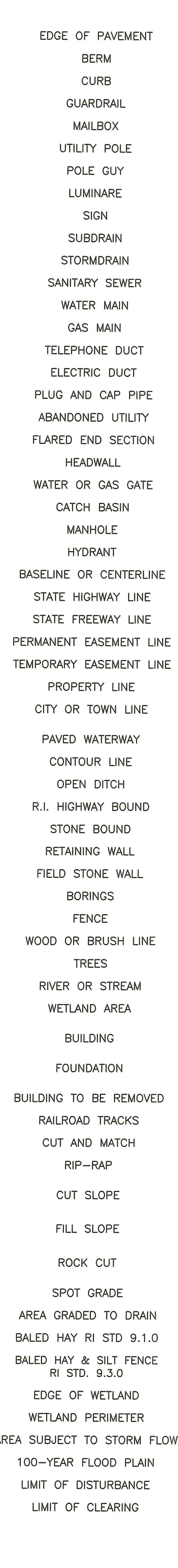
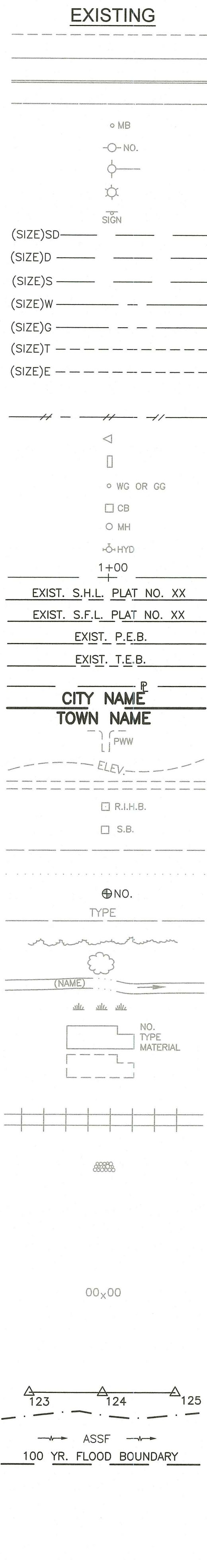
LAYOUT PLAN
SCALE: 1"=3,000'

BASE OF LEVELS

NADV 88 (GEOID18) (COUNTY ROAD ONLY)
RISP COORDINATE SYSTEM
NAD 83(2011) EPOCH 2010.00



Contract Number _____
Number of Sheet 1
Total Sheets XX



1.1.0 UNDERDRAIN	7.4.2 GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)	AB ADJUST CATCH BASIN TO GRADE
1.3.0 CONCRETE CONNECTING COLLAR	7.5.0 BITUMINOUS CONCRETE LIP CURB	ABM ADJUST CATCH BASIN TO MANHOLE
2.1.0 CONCRETE HEADWALLS FOR PIPE CULVERTS	7.5.1A BITUMINOUS BERM (CONSTRUCTION METHOD A)	AC ADJUST CURB STOP TO GRADE
2.2.0 STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS	7.5.1B BITUMINOUS BERM (CONSTRUCTION METHOD B)	AD ADJUST DRAINAGE MANHOLE TO GRADE
2.3.0 (DIA.) PRECAST CONCRETE FLARED END SECTION	7.6.0 CURB SETTING DETAIL	AE ADJUST ELECTRIC MANHOLE TO GRADE
3.2.0 BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE	8.2.0 BITUMINOUS CONCRETE DITCH	AFC ADJUST FRAME AND COVER TO GRADE
3.2.1 (DIA.) BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE	8.3.0 RIP-RAP DITCH	AFG ADJUST FRAME AND GRATE TO GRADE
3.3.0 BRICK/SOLID BLOCK TYPE "D" SQUARE CATCH BASIN	8.4.0 PAVED WATERWAY	AG ADJUST GAS GATE BOX TO GRADE
3.3.2 BRICK/SOLID BLOCK TYPE "F" SQUARE CATCH BASIN	9.1.0 BALED HAY EROSION CHECK	AHH ADJUST HANDHOLE TO GRADE
3.3.3 SOLID BLOCK FLUSH SQUARE CATCH BASIN	9.2.0 SILT FENCE DETAIL	AS ADJUST SANITARY SEWER MANHOLE TO GRADE
3.4.0 BRICK/SOLID BLOCK TYPE "D" ROUND CATCH BASIN	9.3.0 BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED	AT ADJUST TELEPHONE MANHOLE TO GRADE
3.4.1 BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET	9.4.0 BALED HAY DITCH AND SWALE EROSION CHECK	AW ADJUST WATER GATE BOX TO GRADE
3.4.2 BRICK/SOLID BLOCK TYPE "F" ROUND CATCH BASIN	9.5.0 LOG AND HAY CHECK DAM	BCD BITUMINOUS CONCRETE DRIVEWAY 3" BITUMINOUS CONCRETE TYPE 1-2 8" GRAVEL BORROW SUBBASE COURSE
3.4.3 BRICK/SOLID BLOCK TYPE "R" CATCH BASIN	9.7.0 DEWATERING BASIN	BFS BUILD NEW STRUCTURE OVER EXISTING PIPE
3.4.4 SOLID BLOCK FLUSH ROUND CATCH BASIN	9.8.0 BALED HAY CATCH BASIN INLET PROTECTION	CCB CLEAN CATCH BASIN
3.4.5 (DIA.) BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN	9.9.0 CONSTRUCTION ACCESS	CCP CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
3.5.0 SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN	10.1.0 WET STONE MASONRY RETAINING WALL	CFP CLEAN AND FLUSH PIPE
3.5.1 (SIZE) SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN	10.2.0 RUBBLE MASONRY WALL	CG CLEARING AND GRUBBING
3.6.0 BRICK/SOLID BLOCK DROP INLET	10.3.0 CONCRETE RETAINING WALL	CMH CLEAN MANHOLE
3.7.0 (DIA.) BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"	10.4.0 STONE MASONRY STEPS	CP (DEPTH) COLD PLANE
4.2.0 PRECAST 4'-0" ROUND MANHOLE	14.1.0 CONCRETE HIGHWAY BOUND	CPP CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
4.2.1 PRECAST 5'-0" ROUND MANHOLE	15.1.0 POST AND MOUNTINGS FOR RURAL MAILBOX	DB REMOVE AND DISPOSE BITUMINOUS CURB
4.2.2 PRECAST 6'-0" ROUND MANHOLE	15.2.0 (NO.) POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES	DC REMOVE AND DISPOSE CONCRETE CURB
4.3.0 (SIZE) PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN	18.2.0 PRECAST TYPE "A" HANDHOLE	DCB REMOVE AND DISPOSE CATCH BASIN
4.4.0 (DIA.) PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN	18.2.2 HEAVY DUTY TYPE "H" HANDHOLE	DDI REMOVE AND DISPOSE DROP INLET
4.5.0 PRECAST CONCRETE DROP INLET	18.3.0 ALUMINUM LIGHTING STANDARDS	DF REMOVE AND DISPOSE FENCE
4.5.1 PRECAST CONCRETE DROP INLET LATERAL OUTLET	20.2.0 BI-DIRECTIONAL CONTROL DEVICE	DFC REMOVE AND DISPOSE FRAME AND COVER
4.5.2 PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET	24.6.1 STREET SIGN MOUNTING DETAIL	DFE REMOVE AND DISPOSE FLARED END SECTION
5.3.0 CATCH BASIN AND MANHOLE STEP	26.2.0 POLYETHYLENE DRUM WITH MARKINGS	DFG REMOVE AND DISPOSE FRAME AND GRATE
5.4.0 CONCRETE COLLARS	26.3.0 PVC PLASTIC PIPE TYPE III BARRICADE	DFH REMOVE AND DISPOSE FIRE HYDRANT
6.1.0 LIGHT-DUTY SQUARE FRAME AND ROUND COVER	31.1.0 CHAIN LINK FENCE 3'-0" TO 4'-0"	DFP REMOVE AND DISPOSE FLEXIBLE PAVEMENT
6.1.1 HEAVY DUTY SQUARE FRAME AND ROUND COVER	31.2.0 CHAIN LINK FENCE 5'-0" TO 6'-0"	DG REMOVE AND DISPOSE GUARDRAIL
6.2.0 LIGHT-DUTY ROUND FRAME AND COVER	31.2.1 CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST	DH REMOVE AND DISPOSE HEADWALL
6.2.1 HEAVY-DUTY ROUND FRAME AND COVER	31.3.0 WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)	DHB REMOVE AND DISPOSE HIGHWAY BOUND
6.3.0 SQUARE FRAME AND GRATE	34.1.0 TYPICAL GUARDRAIL INSTALLATION	DHH REMOVE AND DISPOSE HANDHOLE
6.3.1 SQUARE FRAME AND GRATE	34.2.0 STEEL BEAM GUARDRAIL	DL REMOVE AND DISPOSE LIGHT AND FOUNDATION
6.3.2 SQUARE FRAME AND GRATE (BICYCLE SAFE)	34.2.1 STEEL BEAM GUARDRAIL DETAILS	DMB REMOVE AND DISPOSE MEDIAN BARRIER
6.3.3 HIGH CAPACITY FRAME AND GRATE	34.2.2 STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY	DMH REMOVE AND DISPOSE MANHOLE
6.3.4 HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)	34.2.3 STEEL BEAM GUARDRAIL FIXTURES	DMM REMOVE AND DISPOSE MEDIAN MARKER
6.4.0 ROUND FRAME AND GRATE	34.2.5 STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR	DOW REMOVE AND DISPOSE OBSERVATION WELL
7.1.0S PRECAST CONCRETE CURB (STRAIGHT)	34.3.1 GUARDRAIL END SECTION	DP REMOVE AND DISPOSE PIPE
7.1.0C PRECAST CONCRETE CURB (CIRCULAR)	34.3.2 TERMINAL END SECTION (SINGLE FACE)	DPB REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
7.1.1 3'-0" PRECAST CONCRETE TRANSITION CURB	34.3.3 ANCHORAGE DETAILS APPROACH END SECTION	DRB REMOVE AND DISPOSE RIGID BASE
7.1.2 6'-0" PRECAST CONCRETE TRANSITION CURB	34.3.4 ANCHORAGE DETAILS TRAILING END SECTION	DS REMOVE AND DISPOSE SIGN
7.1.4 PRECAST 2'-0" RADIUS CORNER	34.4.0 STEEL BACKED TIMBER GUARDRAIL	DSS REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
7.1.5 PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)	34.4.1 STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1	DSW REMOVE AND DISPOSE SIDEWALK
7.1.6 PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)	40.1.0 DOUBLE-FACED PRECAST MEDIAN BARRIER	DTD REMOVE AND DISPOSE TELEPHONE DUCT BANKS
7.1.7 PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)	40.2.0 SINGLE-FACED PRECAST MEDIAN BARRIER	DUP REMOVE AND DISPOSE UTILITY POLE
7.1.8 PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)	40.2.1 SINGLE-FACED PRECAST MEDIAN BARRIER	DWW REMOVE AND DISPOSE PAVED WATERWAY
7.2.0S PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)	40.3.0 PRECAST MEDIAN BARRIER TRANSITION UNIT	FF FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
7.2.0C PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)	40.5.0 PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL	GET FLARED GUARDRAIL END TREATMENT
7.2.1 PRECAST CONCRETE SLOPED FACE TRANSITION CURB	43.1.0 CEMENT CONCRETE SIDEWALK	IA IMPACT ATTENUATOR
7.2.2 PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)	43.2.0 BITUMINOUS CONCRETE SIDEWALK	IDL IMPERVIOUS DITCH LINER
7.3.0S GRANITE CURB (STRAIGHT)	43.3.0 WHEELCHAIR RAMP	LOD LIMIT OF DISTURBANCE
7.3.0C GRANITE CURB (CIRCULAR)	43.3.1 WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS	LOR LIMIT OF REGRAIDING
7.3.1 3'-0" GRANITE TRANSITION CURB	43.4.0 DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB	LS 4" LOAM AND SEED
7.3.2 6'-0" GRANITE TRANSITION CURB	43.4.1 DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB	
7.3.3 GRANITE WHEELCHAIR RAMP TRANSITION CURB	43.5.0 CEMENT CONCRETE DRIVEWAYS	
7.3.4 GRANITE 2'-0" RADIUS CORNER	48.1.0 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		

ADJUST CATCH BASIN TO GRADE	ADJUST CATCH BASIN TO MANHOLE	ADJUST DRAINAGE MANHOLE TO GRADE	ADJUST ELECTRIC MANHOLE TO GRADE	ADJUST FRAME AND COVER TO GRADE	ADJUST FRAME AND GRATE TO GRADE	ADJUST GAS GATE BOX TO GRADE	ADJUST HANDHOLE TO GRADE	ADJUST SANITARY SEWER MANHOLE TO GRADE	ADJUST TELEPHONE MANHOLE TO GRADE	ADJUST WATER GATE BOX TO GRADE	BITUMINOUS CONCRETE DRIVEWAY 3" BITUMINOUS CONCRETE TYPE 1-2 8" GRAVEL BORROW SUBBASE COURSE	BUILD NEW STRUCTURE OVER EXISTING PIPE	CLEAN CATCH BASIN	CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)	CLEAN AND FLUSH PIPE	CLEARING AND GRUBBING	CLEAN MANHOLE	(DEPTH) COLD PLANE	CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)	REMOVE AND DISPOSE BITUMINOUS CURB	REMOVE AND DISPOSE CONCRETE CURB	REMOVE AND DISPOSE CATCH BASIN	REMOVE AND DISPOSE DROP INLET	REMOVE AND DISPOSE FENCE	REMOVE AND DISPOSE FRAME AND COVER	REMOVE AND DISPOSE FLARED END SECTION	REMOVE AND DISPOSE FRAME AND GRATE	REMOVE AND DISPOSE FIRE HYDRANT	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	REMOVE AND DISPOSE GUARDRAIL	REMOVE AND DISPOSE HEADWALL	REMOVE AND DISPOSE HIGHWAY BOUND	REMOVE AND DISPOSE HANDHOLE	REMOVE AND DISPOSE LIGHT AND FOUNDATION	REMOVE AND DISPOSE MEDIAN BARRIER	REMOVE AND DISPOSE MANHOLE	REMOVE AND DISPOSE MEDIAN MARKER	REMOVE AND DISPOSE OBSERVATION WELL	REMOVE AND DISPOSE PIPE	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE	REMOVE AND DISPOSE RIGID BASE	REMOVE AND DISPOSE SIGN	REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM	REMOVE AND DISPOSE SIDEWALK	REMOVE AND DISPOSE TELEPHONE DUCT BANKS	REMOVE AND DISPOSE UTILITY POLE	REMOVE AND DISPOSE PAVED WATERWAY	FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT	FLARED GUARDRAIL END TREATMENT	IMPACT ATTENUATOR	IMPERVIOUS DITCH LINER	LIMIT OF DISTURBANCE	LIMIT OF REGRAIDING	4" LOAM AND SEED
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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: OCT 13 2023 FILE # 23-D155
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE: AUGUST, 2023
SHEET: 2
OF: 76

SCALE: NOT TO SCALE

REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	6/07	TRB			

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN

EAST PROVIDENCE, BARRINGTON, WARREN RHODE ISLAND

STANDARD PLAN SYMBOLS & STANDARD LEGEND

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			3	76

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 OBLITERATED 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 CONFORMANCE 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 MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 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 THE 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:

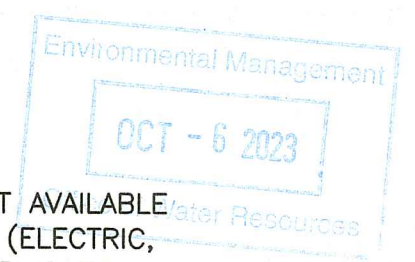
- FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE. R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. 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 SEED 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 SEED 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 ENCROACH 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. 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 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
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: OCT 13 2023 FILE # 23-D155
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

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PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

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.
- 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.
- 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.

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 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

- 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.
- 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.
- A BARE GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION I.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. 431.0. 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 SHALL BE 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 NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
- 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 30' 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. 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 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: 06/13/2023 FILE # 23-0155
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

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PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

STANDARD NOTES - 2

JOB SPECIFIC GENERAL NOTES

1. THE CONTRACT PLANS (EXCLUDING COUNTY ROAD) ARE NOT PRODUCED FROM AN ACTUAL GROUND OR AERIAL SURVEY. THESE PLANS HAVE BEEN COMPILED FROM THE BEST AVAILABLE EXISTING INFORMATION OBTAINED FROM THE RIDOT. IN ADDITION, ALL PROPERTY AND STATE HIGHWAY LINE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE.
2. THE BASELINES SHOWN (EXCLUDING COUNTY ROAD) ON THESE PLANS ARE FOR DISTRIBUTION OF QUANTITY AND GENERAL REFERENCE ONLY. THE BASELINES ARE NOT INTENDED TO BE USED FOR CONSTRUCTION LAYOUT.
3. THE CONTRACTOR SHALL FULLY UNDERSTAND THAT HE IS RESPONSIBLE FOR ALL FIELD SURVEY WORK NECESSARY TO SATISFY THE INTENT OF THE PROJECT.
4. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATION OF ALL EXISTING UTILITIES BOTH UNDERGROUND AND OVERHEAD IN ACCORDANCE WITH THE "DIG SAFE PROGRAM LAW". THE CONTRACTOR SHOULD BE AWARE THAT NOT ALL UTILITY COMPANIES SUBSCRIBE TO DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL UTILITY COMPANIES HAVE BEEN NOTIFIED AND ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES INCLUDING THOSE WHICH MAY NOT SHOWN ON THE PLANS PRIOR TO ANY WORK. GUARDRAIL, DRAINAGE AND SIGN POST LOCATIONS SHALL BE FIELD ADJUSTED AS REQUIRED TO AVOID DAMAGE TO EXISTING UTILITIES OR OTHER PROPERTY.
6. THE CONTRACTOR SHALL FULLY RECOGNIZE THAT HAND WORK MAY BE NECESSARY TO REMOVE EXISTING PAVEMENT AROUND UTILITY STRUCTURES OR ADJACENT TO CURB, SIDEWALK, WALKS, OR FENCING. THE COST OF ANY HANDWORK WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS ITEMS OF WORK.
7. THE COST OF TRIMMING AND FINE GRADING FOR CURB INSTALLATION WILL BE INCLUDED IN THE COST OF THE CURB. SAW CUTTING AND ANY CONCRETE REQUIRED BETWEEN THE CURB AND EXISTING PAVEMENT STRUCTURE LIMITS SHALL BE A MINIMUM 1'-0" IN FRONT OF AND 1'-0" IN BACK OF THE CURB INSTALLATION OR TO A SUFFICIENT DISTANCE IN FRONT AND/OR IN BACK OF THE CURB INSTALLATION FOR PROPER CURB INSTALLATION AND SUPPORT.
8. ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE INCLUDED IN ITEM 401.9901 HMA OVERLAY AND RELATED WORK.
9. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REESTABLISHED WITH PLANTABLE SOIL AND TYPE 1 SEED. IF AREAS ARE BEYOND THE WORK LIMITS THEN THE COST SHALL BE BORNE BY THE CONTRACTOR.
10. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE STATE.
11. ANY SUBCONTRACTORS EMPLOYED BY THE CONTRACTORS OR RIDOT ON THIS PROJECT SHALL WORK WITHIN THE SAME PROTECTED WORK AREAS AS THE CONTRACTOR. NO SEPARATE LANE CLOSURES WILL BE PAID FOR.
12. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
13. CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT AND OTHER DEBRIS PRIOR TO PAVEMENT PLACEMENT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
14. TEMPORARY PAVEMENT MARKINGS ARE REQUIRED TO BE APPLIED TO MILLED AND INTERMEDIATE PAVEMENT LAYERS AND FINAL SURFACES PRIOR TO OPENING TRAVEL LANES TO TRAFFIC.
15. SIGN LOCATIONS ARE TO BE MARKED IN THE FIELD FOR APPROVAL PRIOR TO BEING INSTALLED.
16. SIGNS TO BE R&D CANNOT BE REMOVED UNTIL APPROVED BY THE ENGINEER.
17. THE CONTRACTOR SHALL FULLY UNDERSTAND THAT EXISTING CASTINGS SHALL BE SET 1/4" MAX. TO THE PROPER LINE AND GRADE AT EACH LOCATION SHOWN ON THE PLANS. ALL WORK ASSOCIATED WITH ADJUSTING EACH CASTING TO GRADE WILL BE PAID FOR UNDER BID ITEMS 707.9901 OR 713.9901. ANY CASTING THAT IS NOT RESET WITHIN THE 1/4" MAX GRADE TOLERANCE SHALL BE ADJUSTED AT THE CONTRACTOR'S OWN EXPENSE.
18. ALL ITEMS NOT REFERENCED FOR MODIFICATION WILL BE CONSIDERED "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
19. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIALS WITHIN THE ROOT ZONE OF ANY TREES OR SHRUBS WITHIN THE PROJECT LIMITS.
20. ANY CURB OR BERM DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND AT NO COST TO THE STATE.
21. CONTRACTOR MAY RE-USE EXISTING CURBING (IF IN SUITABLE CONDITION) IN LIEU OF PROPOSED CURBING AT WHEELCHAIR RAMPS IF THE WHEELCHAIR RAMPS CAN BE CONSTRUCTED ACCORDING TO PLAN, AND COMPLY WITH ADA REGULATIONS ALONG WITH APPROVAL OF THE ENGINEER.
22. THE BASE MAPPING FOR THESE PLANS WERE COMPILED FROM EXISTING RIGIS DATA INCLUDING CONTOURS FROM LIDAR DATA AND ARIAL IMAGES ON APRIL 2014.
23. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE) ARE NOT SHOWN. THE CONTRACTOR SHALL ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS. THE SERVICE LOCATION SHALL BE CHECKED WITH UTILITY COMPANY OR AUTHORITY CONCERNED. UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
24. FOR CURBING THAT NEEDS TO BE REPLACED, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL CURB DIMENSIONS AND RADII PRIOR TO ORDERING NEW CURB AND REMOVAL OF THE OLD CURB. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE VARIOUS ITEMS OF WORK.
25. CONTRACTOR SHALL EXCAVATE TEST PITS TO LOCATE EXISTING TELEPHONE FACILITIES, WATER AND GAS MAINS PRIOR TO ORDERING ANY STORM DRAINAGE MATERIALS.
26. CLASS 9.5 HMA SHALL BE USED IN LIEU OF TYPE-I FOR PAVED WATERWAYS.

DRAINAGE/EROSION AND SEDIMENT CONTROL NOTES:

1. INLET PROTECTION SHALL BE INSTALLED FOR ANY DRAINAGE STRUCTURE WITHIN THE PROJECT LIMITS, AS WELL AS FOR THE DRAINAGE STRUCTURES IMMEDIATELY ADJACENT TO THE PROJECT LIMITS. UPON COMPLETION OF WORK, DRAINAGE PIPES AND STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE CLEANED AND FLUSHED.
2. ALL ACCUMULATED SEDIMENT THAT RESULTS FROM THE CLEANING AND FLUSHING OF PIPE OPERATION MUST BE REMOVED FROM THE PROJECT AND DISPOSED OF LEGALLY IN AN AREA OUTSIDE OF RIDEM OR CRMC JURISDICTION.
3. IF THE CONTRACTOR CHOOSES TO STOCKPILE MATERIALS ON SITE, ALL COSTS FOR EROSION CONTROL MEASURES SHALL BE AT NO COST TO THE STATE.
4. CATCH BASIN FILTER INSERTS (AT GRATES) AND/OR COMPOST FILTER SOCK (AT CURB INLETS) SHALL BE SECURELY PLACED AT ALL EXISTING CATCH BASINS WHICH MAY RECEIVE STORM WATER RUNOFF FROM THE PROJECT SITE.

TRAFFIC SIGNAL NOTES - JOB SPECIFIC

1. WHERE TEMPORARY MODIFICATIONS TO THE SIGNAL EQUIPMENT ARE REQUIRED THE CONTRACTOR SHALL REPLACE THE EXISTING EQUIPMENT AS NOTED ON THE PLANS AND REWIRE TO PROVIDE A FULLY FUNCTIONAL SIGNAL CONSISTENT WITH EXISTING FUNCTIONALITY AND OPERATIONS.
2. WHERE NEW LOOP DETECTORS ARE REPLACING EXISTING LOOP DETECTORS, TIE-INS SHALL UTILIZE EXISTING FLEX DUCT AND BE SPLICED INTO ADJACENT HANDHOLES UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER.
3. BLACK NON-LOUVERED BACKPLATES WITH A 3" REFLECTORIZED BORDER ARE REQUIRED ON ALL TRAFFIC SIGNAL HEADS ON NEW STRUCTURES AND SHALL BE INCLUDED IN THE PRICE OF THE SIGNAL HEADS. (THIS NOTE SHALL REPLACE TRAFFIC SIGNAL NOTE 2 ON STANDARD NOTES-2). EXISTING SIGNAL HEADS WITH EXISTING BACKPLATES THAT ARE TO REMAIN SHALL BE PROVIDED WITH NEW BACKPLATES TO MATCH THE NEW SIGNAL HEAD AND BACKPLATES. THE COST FOR THESE ADDITIONAL BACKPLATES SHALL BE CONSIDERED INCIDENTAL TO THE NEW SIGNAL HEAD ITEMS.
4. THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE ORIENTED SO THAT THE CABINET DOOR IS FACING AWAY FROM THE ROADWAY IF STATE PROPERTY ALLOWS, UNLESS OTHERWISE STATED ON THE PLANS OR DIRECTED BY THE ENGINEER.
5. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
6. THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE, OR COMBINATION OF NON-CONFLICTING PHASES.
7. ALL CABLE DRIP LOOPS SHALL UTILIZE UV RATED CABLE TIES. THE USE OF ELECTRICAL TAPE WILL NOT BE ALLOWED.
8. ALL PROPOSED MAST ARMS SHALL BE DESIGNED AND FABRICATED TO ENSURE THAT ALL BASEPLATES ARE NO LARGER IN DIAMETER THAN RIDOT APPROVED MAST ARMS OF THE SAME LENGTH AS DESIGNED IN SUPPORT OF REVISED RIDOT STD. DETAIL 19.2.0.
9. FOR ALL TRAFFIC SIGNAL CONTROLLERS SUPPLIED AS PART OF THIS PROJECT, THE CONTRACTOR SHALL SUPPLY TWO (2) USB FLASH DRIVES WITH A MINIMUM 2 GB CAPACITY. THE USB FLASH DRIVES SHALL CONTAIN THE LATEST CONTROLLER FIRMWARE AND AS-BUILT PROGRAMMING INCLUDING PDF COPIES OF THE CONTROLLER DATA PRINTOUTS AND CABINET BOX PRINTS/DETECTION DOOR STICKERS. THE USB FLASH DRIVES SHALL BE STORED IN THE TRAFFIC SIGNAL CONTROLLER CABINET.
10. THE CONTRACTOR SHALL INSTALL PROPOSED TRAFFIC SIGNAL CABINETS ON A 12 INCH RISER EXTENSION BASE.
11. ALL FOUNDATIONS SHALL BE SET FLUSH WITH THE FINISH GRADE. THE CONTRACTOR SHALL VERIFY THE TOP OF THE FOUNDATION GRADE WITH THE ENGINEER PRIOR TO POURING ANY FOUNDATION.

PEDESTRIAN SIGNAL NOTES

1. ACCESS TO PEDESTRIAN PUSHBUTTONS SHALL MEET PROWAG & 2009 MUTCD REQUIREMENTS. ALL PEDESTRIAN PUSHBUTTONS SHALL BE ADA COMPLIANT WITH A MINIMUM 2" DIAMETER. SIGNS INSTALLED AT PROPOSED PEDESTRIAN PUSHBUTTONS SHALL BE MUTCD 2009 CODE R10-3E (LEFT OR RIGHT) AND SHALL BE INSTALLED SO THAT IT IS CLEARLY INDICATED WHICH CROSSING IS ASSIGNED TO EACH BUTTON. (THIS NOTE SHALL SUPPLEMENT TRAFFIC SIGNAL NOTE 11 ON STANDARD NOTES-2). ALL APS PUSHBUTTONS SHALL BE DRY FIT IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE TO DEMONSTRATE PROPER ORIENTATION OF THE PUSHBUTTON'S TACTILE ARROW/R10-3e SIGN ARROW WHICH IS TO BE ALIGNED PARALLEL TO THE CROSSWALK DIRECTION.
2. AN INDIVIDUAL CONTROL UNIT FOR EACH ACCESSIBLE PEDESTRIAN DETECTOR SHALL BE INSTALLED IN THE ASSOCIATED PEDESTRIAN SIGNAL HEAD OR IN THE DETECTOR HOUSING ITSELF. A CENTRAL CONTROL UNIT IN THE TRAFFIC SIGNAL CONTROLLER CABINET FOR THE ACCESSIBLE PEDESTRIAN DETECTORS SHALL NOT BE FURNISHED OR INSTALLED.
3. PEDESTRIAN HAND/PERSON DISPLAYS SHALL BE SOLID FILLED IMAGES.
4. ALL PEDESTRIAN PUSH BUTTONS SHALL BE PLACED ADJACENT TO LEVEL LANDING AREA. MAXIMUM REACH FROM THE LEVEL LANDING AREA TO THE PEDESTRIAN PUSH BUTTON SHALL NOT EXCEED 10 INCHES.
5. EACH PUSH BUTTON ACTUATION SHALL BE ACCOMPANIED BY THE SPEECH MESSAGE "WAIT".
6. WHEN ACTIVATED, THE WALK INDICATION SHALL BE ACCOMPANIED BY RAPID TICK TONES.
7. FOLLOWING THE WALK INDICATION, ACCESSIBLE PEDESTRIAN SIGNALS SHALL REVERT TO THE PUSHBUTTON LOCATOR TONE DURING THE PEDESTRIAN CHANGE INTERVAL.
8. UNLESS OTHERWISE CALLED FOR, WHERE NEW EQUIPMENT IS REPLACING EXISTING EQUIPMENT, ALL NEW PEDESTRIAN SIGNAL HEADS AND PUSH BUTTONS SHALL BE SPLICED TO EXISTING CONDUCTORS.
9. ALL NEW PEDESTAL BASE FOUNDATIONS SHALL BE SET FLUSH WITH FINISH GRADE. FOUNDATIONS SHALL NOT BE LOCATED UNTIL WHEELCHAIR RAMP LOCATIONS AND GRADES HAVE BEEN APPROVED.
10. ALL PEDESTAL POLES SUPPLIED UNDER THIS CONTRACT SHALL BE ONE PIECE ASSEMBLIES.

TRAFFIC SIGNAL NOTES - UTILITIES

1. THE CONTRACTOR SHALL HAND DIG AT ALL GAS PIPELINE CROSSINGS.
2. A ROTARY WHEEL OR OTHER MECHANICAL TRENCHING METHOD SHALL NOT BE ALLOWED.
3. A 1-FOOT VERTICAL CLEARANCE IS REQUIRED BETWEEN NEW CONDUIT AND NATIONAL GRID GAS FACILITIES.
4. ALL NEW MANHOLES, HANDHOLES, PULL BOXES, AND FOUNDATIONS SHALL MEET A MINIMUM 1-FOOT LATERAL CLEARANCE AND NOT BE PLACED OVER NATIONAL GRID GAS AND WATER DEPARTMENT FACILITIES.
5. WHERE THE MODIFIED MAST ARMS ARE CALLED FOR TO ACCOMMODATE REQUIRED CLEARANCES FROM OVERHEAD UTILITIES AND THE ROADWAY, THE SHOP DRAWING SKETCHES SHALL INCLUDE THE APPROXIMATE HORIZONTAL AND VERTICAL LOCATIONS OF THE OVERHEAD WIRES WITH CLEARANCES DIMENSIONED TO THE MAST ARM TUBE AND SHAFT, AND CLEARANCES DIMENSIONED FROM THE MAST ARM TUBE TO THE ROADWAY SURF ACE AT THE PROPOSED CURB LINE AS DETAILED ON THE RESPECTIVE MISCELLANEOUS DETAILS PLANS AND AS REFERENCED IN THE CONSTRUCTION NOTES ON THE TRAFFIC SIGNAL PLANS. THE STRUCTURE GEOMETRY SHALL BE DRAWN TO ACTUAL SCALE PER FABRICATOR'S CUSTOM DESIGN.

EROSION CONTROL NOTES

1. COMPOST FILTER SOCK SHALL BE USED FOR PERIMETER EROSION CONTROLS AS NEEDED TO ADHERE TO THE SWPPP AND RIDEM REGULATIONS. CONTRACTOR SHALL PLACE COMPOST FILTER SOCK AS NEEDED OR AS DIRECTED BY THE ENGINEER DEPENDENT ON THE CONSTRUCTION PHASING.

GENERAL NOTES- PAVEMENT MARKINGS:

1. ALL PERMANENT PAVEMENT MARKINGS FOR LANE LINES SHALL BE EPOXY RESIN. PAVEMENT MARKINGS SHALL BE PLACED ON THE FINAL SURFACE COURSE NO SOONER THAN 2 WEEKS BUT NO LONGER THAN 4 WEEKS FROM COMPLETION OF PAVING OPERATIONS.
2. ALL PERMANENT RECESSED MARKERS SHALL BE INLAID TAPE UNLESS OTHERWISE DIRECTED.
3. THE LOCATION OF PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION, AS AMENDED.
4. WHERE EXISTING PAVEMENT MARKINGS CONFLICT WITH PROPOSED PAVEMENT MARKINGS OR WITH TEMPORARY TRAFFIC CONTROL SETUPS (LONG TERM), EXISTING MARKINGS SHALL BE REMOVED BY METHOD APPROVED BY THE RIDOT.
5. LIMITS OF PROPOSED PAVEMENT MARKINGS SHALL MEET EXISTING STRIPING, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL VERIFY AND RECORD PAVEMENT MARKING LOCATIONS PRIOR TO ANY PAVEMENT REMOVAL. MARKINGS SHALL BE REPLACED IN ORIGINAL LOCATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. WATERBORNE MARKINGS SHALL BE USED ON MICRO MILLED SURFACES AND INTERMEDIATE PAVEMENT LAYERS WHICH WILL BE OPENED TO TRAFFIC AT THE COMPLETION OF EACH DAY'S PAVING OPERATION.
8. WATERBORNE PAVEMENT MARKINGS SHALL BE PLACED ON THE FINAL SURFACE COURSE LAYER WHICH WILL BE OPENED TO TRAFFIC AT THE COMPLETION OF EACH DAY'S PAVING OPERATION.

GENERAL NOTES - SIGNS:

1. ALL NEW DIRECTIONAL, REGULATORY, WARNING, GUIDE SIGNS AND PARKING SIGNS SHALL HAVE SIGN SUPPORTS. UNLESS OTHERWISE INDICATED, SIGN MOUNTINGS SHALL BE R.I. STD. 24.2.0 OR 24.6.0 AS APPROPRIATE.
2. FOR ALL GROUND MOUNTED AND MAST ARM MOUNTED STREET NAME SIGN MOUNTINGS. THE BRACKET LENGTH SHALL BE SUITABLE TO SUPPORT OF THE LENGTH OF THE SIGN. ALL STREET SIGNS SHALL BE DOUBLE SIDED.
3. FOR ALL OVERHEAD MAST ARM MOUNTED STREET NAME AND REGULATORY SIGNS TO BE MOUNTED ON MAST ARMS THAT ARE PERPENDICULAR TO INTERSECTION APPROACHES, THE CONTRACTOR SHALL UTILIZE A BRACKET SIGN MOUNTING TO ACHIEVE THE PROPER ORIENTATION.
4. FOR ALL OVERHEAD MAST ARM MOUNTED STREET NAME AND REGULATORY SIGNS TO BE MOUNTED ON MAST ARMS THAT ARE SKEWED TO INTERSECTION APPROACHES, THE CONTRACTOR SHALL UTILIZE A PELCO ASTRO SIGN-BRAC ASSEMBLY PART NO.AS-0532, SIGN-BRAC TUBE WITH HARDWARE KIT PART NO. AIB-0507, AND PELCO ANGLE PART NO. SE-D547-XX-PNC USED TO CONNECT SIGN PANELS TO THE SIGN-BRAC TUBE, OR APPROVED EQUIVALENT TO ACHIEVE THE PROPER ORIENTATION.
5. THE COST OF MOUNTING BRACKETS SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE SIGN ITEMS.
6. PRIOR TO INSTALATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE RIDOT.
7. ALL PROPOSED AND RELOCATED SIGNS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 7' OVER THE SIDEWALK. FOR SIGNS TO BE RELOCATED, IF 7' OF CLEARANCE CANNOT BE ACHIEVED USING THE EXISTING POST, A NEW POST SHALL BE USED. THE COST OF THE NEW POST SHALL BE CONSIDERED INCIDENTAL TO THE REMOVE AND RELOCATE DIRECTIONAL REGULATORY OR WARNING SIGN ITEM.
8. ALL SIGN RADII AND BORDERS SHALL BE AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD, 2009 EDITION) AS AMENDED.

SURVEY NOTES:

1. THIS PLAN IS BASED UPON AN ON-THE-GROUND AND UAS SURVEY PERFORMED BY GM2 ASSOCIATES, INC. UNDER CERTIFICATE OF AUTHORIZATION NUMBER: LS.0000742--COA FROM JANUARY TO MARCH 2023.
2. THE PURPOSE OF THIS PLAN IS TO DEPICT THE TOPOGRAPHIC DETAIL WITHIN THE PROJECT ROADWAY SUFFICIENT FOR SIDEWALK DESIGN.
3. THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:
 - LIMITED CONTENT BOUNDARY SURVEY (CLASS I)
 - DATA ACCUMULATION SURVEY (CLASS III)
 - TOPOGRAPHIC SURVEY ACCURACY(AERIAL) (T-3)
 - TOPOGRAPHIC SURVEY ACCURACY(MANUAL) (T-1)
 - VERTICAL CONTROL STANDARD(AERIAL) (V-4)
 - VERTICAL CONTROL STANDARD(MANUAL) (V-1)
4. HORIZONTAL DATUM IS BASED UPON NAD'83(RHODE ISLAND STATE PLANE-USFT) AS DERIVED VIA REDUNDANT GNSS OBSERVATIONS PERFORMED BY GM2 ASSOCIATES, INC. IN JANUARY, 2023. THE FOLLOWING TEMPORARY BENCHMARKS WERE SET AND RECOVERED NEAR THE SITE AND ARE GRAPHICALLY DEPICTED ON THE PLAN:
 - TBM#1
ELEV=28.97'
DESC: NE'LY CORNER RIHB
 - TBM#2
ELEV=49.79'
DESC:HYDRANT BONNET BOLT AT TIP OF ARROW
 - TBM#3
ELEV=18.63'
DESC:EIDOT DISK #433
5. EXISTING UTILITIES, WHERE SHOWN HEREON, ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING ANY ON-SITE ACTIVITY WITH DIG-SAFE AND THE APPROPRIATE UTILITY COMPANY AND MAINTAINING EXISTING UTILITY SYSTEM SERVICE. DIG-SAFE SHALL BE NOTIFIED PER THE COMMONWEALTH OF MASSACHUSETTS STATUTE CHAPTER 82, SECTION 40, AT 1-888-344-7233. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY, LOCATION OR THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY SIZE, LOCATION AND INVERTS OR UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
6. UAS DATA WAS COLLECTED WITHIN PROJECT ROADWAYS WITH A RMSE (ROOT MEAN SQUARED ERROR) AT 95% CONFIDENCE OF 0.11' USING TWELVE (12) INDEPENDENT CONFORMANCE CHECKS.
7. THE STATUS OF STREETS AND WAYS NOTED IS BASED UPON RECORDS REFERENCED AND WAS NOT DETERMINED AS PART OF THIS SURVEY.
8. THIS SURVEY WAS PERFORMED WITHOUT A TITLE EXAMINATION. MATTERS SHOWN RELATE TO RECORD AND OCCUPATION BOUNDARIES AND DO NOT REPRESENT ANY OPINION REGARDING TITLE OR MATTERS THAT MAY BE UNCOVERED BY A FULL TITLE EXAMINATION.

JOB SPECIFIC LEGEND

- (7.1.3) (X') PRECAST CONCRETE WHEELCHAIR RAMP TRANSITION CURB
- (20.3.0) (X') PAVEMENT MARKING CROSSWALK AND STOP LINES
- (34.1.0M) GUARDRAIL STEEL BEAM SINGLE FACE EARTH AND ASPHALT MASH STANDARD 2'-7" HEIGHT
- (34.3.0) ENERGY ABSORBING END TREATMENT
- (34.3.5M) GUARDRAIL CONNECTION TO EXISTING ENDPOST APPROACH END SECTION, 2'-7" HEIGHT, SEE DETAIL
- (34.3.6M) GUARDRAIL CONNECTION TO EXISTING ENDPOST TRAILING END SECTION, 2'-7" HEIGHT, SEE DETAIL
- (34.4.0M) STEEL BACKED TIMBER GUARDRAIL 2'-7" HEIGHT
- (BCD-1) 2" MODIFIED CLASS 9.5 HMA 8" GRAVEL BORROW SUBBASE
- (BLM) BIKE LANE MARKINGS
- (CBP) CATCH BASIN PROTECTION
- (CD) CLEAN DITCH
- (CFS) 12" COMPOST FILTER SOCK
- (DMB) REMOVE AND DISPOSE MAILBOX
- (ECB) EROSION CONTROL BLANKET
- (ESM) ENGINEERED SOIL MEDIA
- (ETR) EXISTING TO REMAIN (ITEM)
- (ETEA) GUARDRAIL END TREATMENT - ENERGY ABSORBING TERMINAL (MASH)
- (GR) ROADSIDE GUARDRAIL INSTALLATION MODIFIED
- (GRCB) STEEL THRIE BEAM BRIDGE CONNECTION
- (MBG) PLACEMENT OF MILLINGS BENEATH GUARDRAIL (12" MINIMUM FROM POST)
- (MM) MICROMILLING (DEPTH)
- (PWW) PAVED WATERWAY
- (REPB) REMOVE EXISTING PEDESTRIAN PUSH BUTTON
- (RESH) REMOVE EXISTING SIGNAL HEAD
- (RCC) RECONSTRUCT CATCH BASIN/CORBEL CONES
- (RD) REMOVE AND DISPOSE
- (RDP) REMOVE AND DISPOSE PAVERS
- (RR) REMOVE AND RESET
- (SB) STONE BAFFLE
- (SC) SELECTIVE CLEARING
- (WQO) WATER QUALITY OUTLET
- (//) SAND FILTER MEDIA

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 13 2023 FILE # 23-D153
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. TRAFFIC FINES IN WORK ZONE REGULATORY SIGN, R.I. STD. 27.1.1 SHALL BE UTILIZED WHENEVER CONSTRUCTION ACTIVITIES ARE IN PROGRESS AND CONSTRUCTION PERSONNEL ARE PRESENT. THE SIGNS SHALL BE REMOVED FROM THE SITE OR COVERED AT ALL OTHER TIMES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL APPLICABLE REGULATORY AND WARNING SIGNS (EXCEPT FOR PARKING SIGNS) ARE VISIBLE TO TRAFFIC AT ALL TIMES ON EITHER PERMANENT OR TEMPORARY MOUNTINGS.
3. THE INTENDED PEDESTRIAN ACCESS ROUTES THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES.

STORMWATER NOTES

1. CONTOURS SHOWN ON THE PROJECT PLANS HAVE BEEN OBTAINED THROUGH LIDAR AND ARE APPROXIMATE ONLY. THE PROPOSED CONTOURS AND ELEVATIONS ARE BASED ON THESE APPROXIMATE CONTOURS AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS.
2. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL FIELD VERIFY THE CONTOURS AND ELEVATIONS IN THE STORMWATER MANAGEMENT AREAS SHOWN ON MISCELLANEOUS DETAIL SHEET THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR ENGINEER IMMEDIATELY ANY SIGNIFICANT DISCREPANCIES.
3. THE CONTRACTOR SHALL COMPLETE THE PROJECT WITHIN THE LIMIT OF DISTURBANCE AND SHALL MATCH TO GRADE ACCORDINGLY.

DESIGNED BY:	SCALE: NO SCALE
CHECKED BY:	
DATE: AUGUST, 2023	REVISIONS
SHEET: 5	NO. DATE BY
OF: 76	

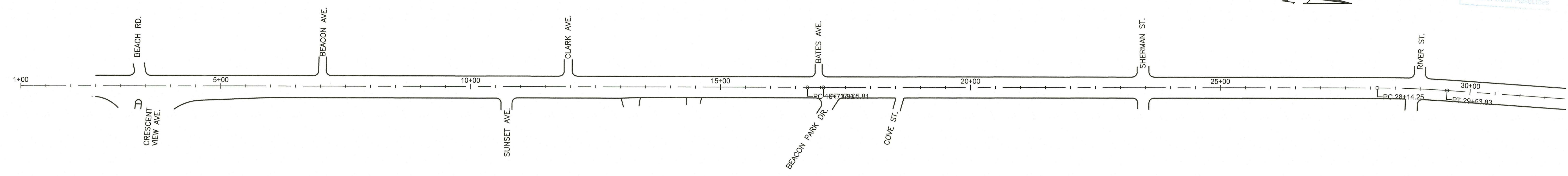
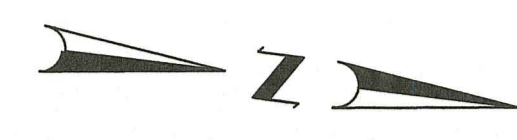
PAVEMENT IMPROVEMENTS - BAR, EPR, WRN	
EAST PROVIDENCE, BARRINGTON, WARREN	
RHODE ISLAND	
JOB SPECIFIC PLAN SYMBOLS, LEGEND AND NOTES	



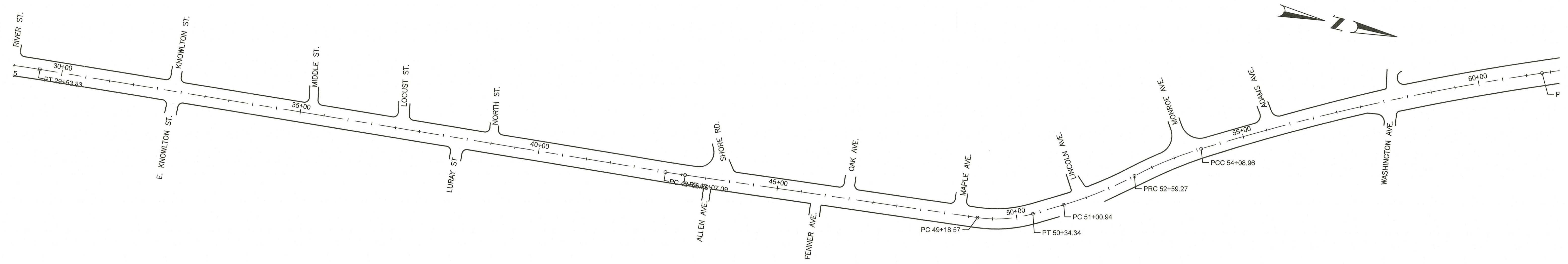
RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			6	76

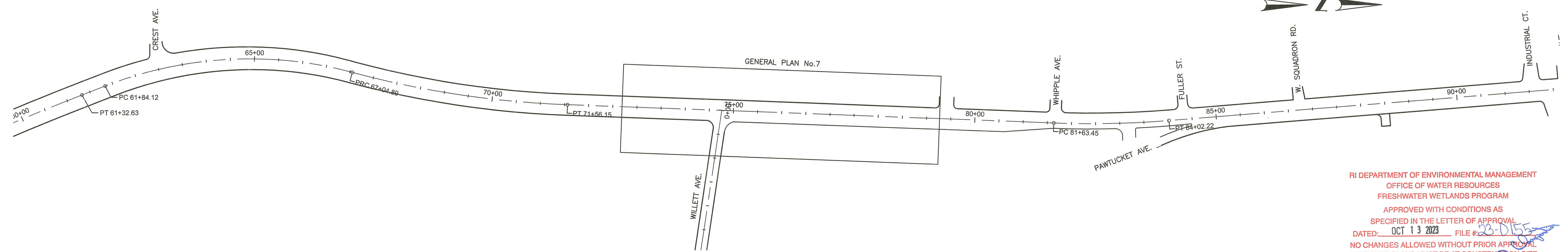
Environmental Management
 OCT - 6 2023
 Office of Water Resources



ROUTE 103A - BULLOCKS POINT AVENUE
 SCALE: 1"=100'



ROUTE 103A - BULLOCKS POINT AVENUE
 SCALE: 1"=100'



ROUTE 103A - BULLOCKS POINT AVENUE
 SCALE: 1"=100'

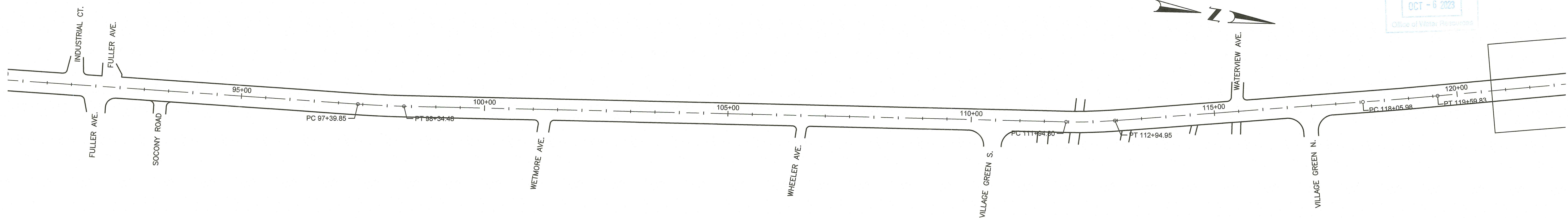
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: OCT 13 2023 FILE # 23-D155
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

P:\FILES\2023\08\01 BAR EPR\WAS_Correl_Drawing\2023_V1_007_001P\LANDS_WETLAND.dwg 10/13/2023 14:03:03 PM MHP2023

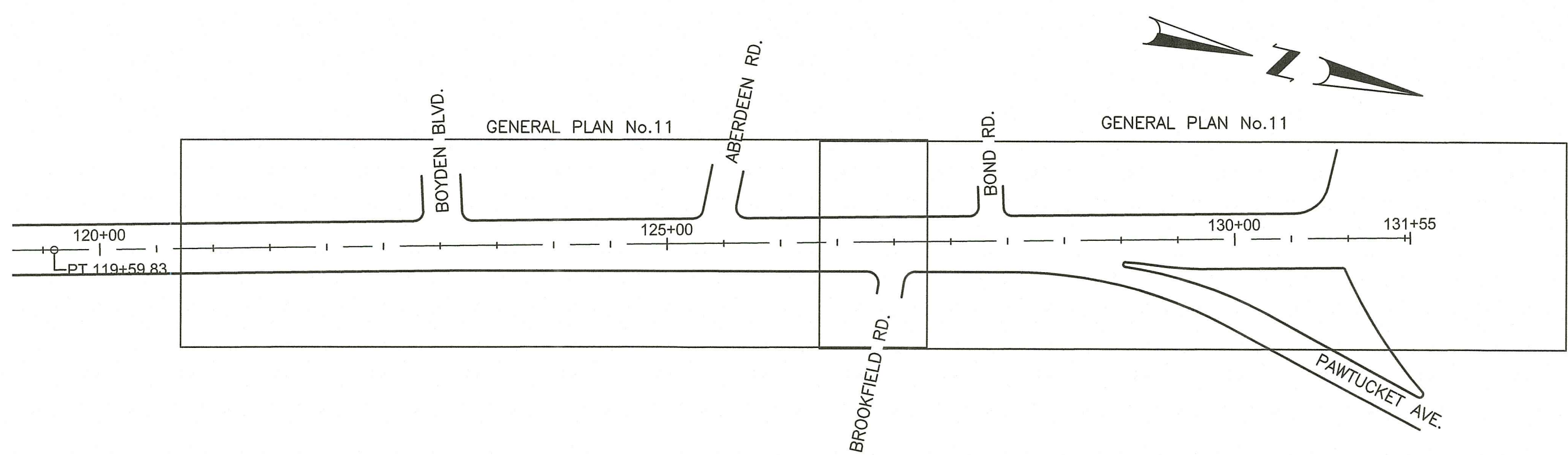
		RHODE ISLAND DEPARTMENT OF TRANSPORTATION	DESIGNED BY: CHECKED BY: DATE: AUGUST, 2023 SHEET: 6 OF: 76	PAVEMENT IMPROVEMENTS - BAR, EPR, WRN EAST PROVIDENCE, BARRINGTON, WARREN RHODE ISLAND																														
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REVISIONS			REVISIONS																															
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FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			7	76

Environmental Management
 OCT - 6 2023
 Office of Water Resources





ROUTE 103 - PAWTUCKET AVENUE
 SCALE: 1"=100'



ROUTE 103 - PAWTUCKET AVENUE
 SCALE: 1"=100'

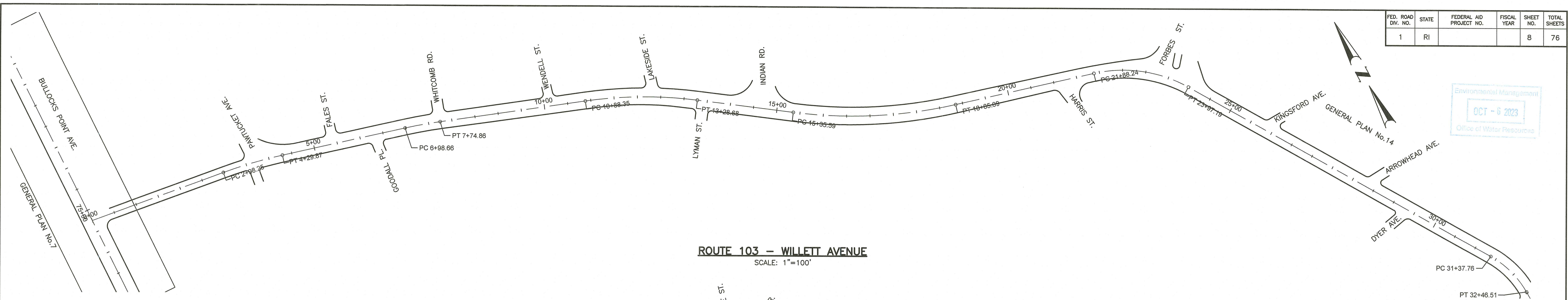
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: OCT 13 2023 FILE # 23-015
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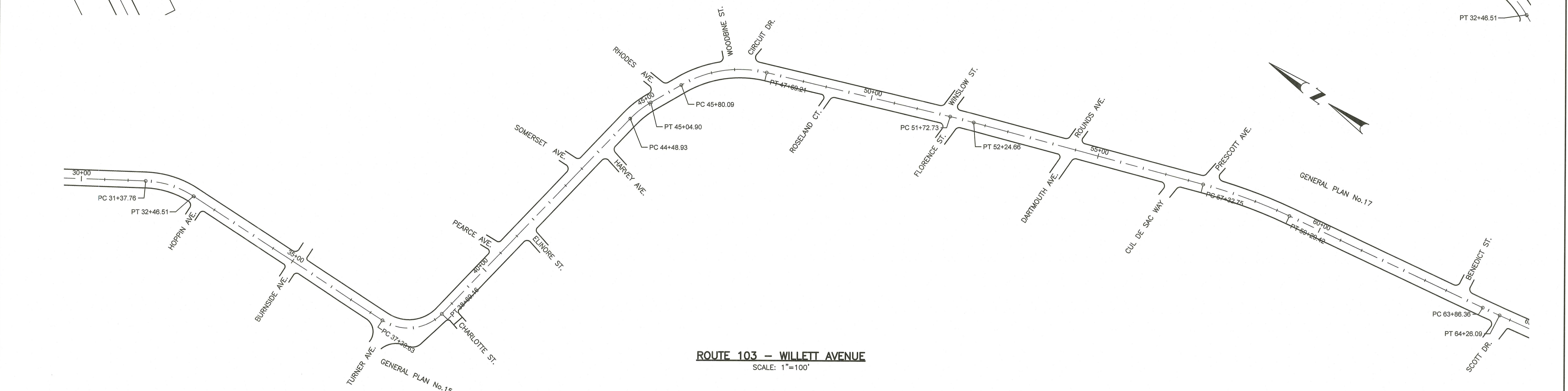
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REVISIONS			REVISIONS																										
NO.	DATE	BY	NO.	DATE	BY																								

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			8	76

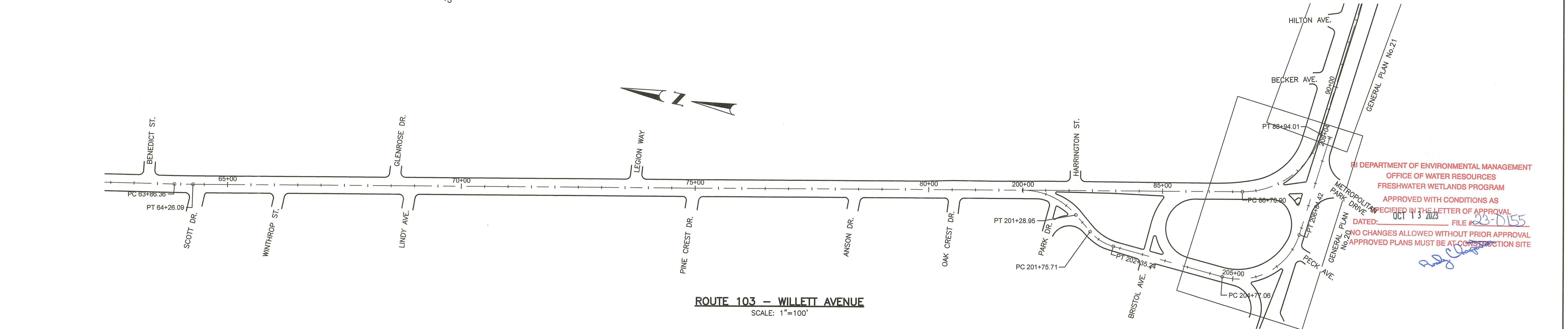
Environmental Management
 OCT - 6 2023
 Office of Water Resources



ROUTE 103 - WILLETT AVENUE
 SCALE: 1"=100'



ROUTE 103 - WILLETT AVENUE
 SCALE: 1"=100'



ROUTE 103 - WILLETT AVENUE
 SCALE: 1"=100'

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 SHEET: 8
 OF: 76

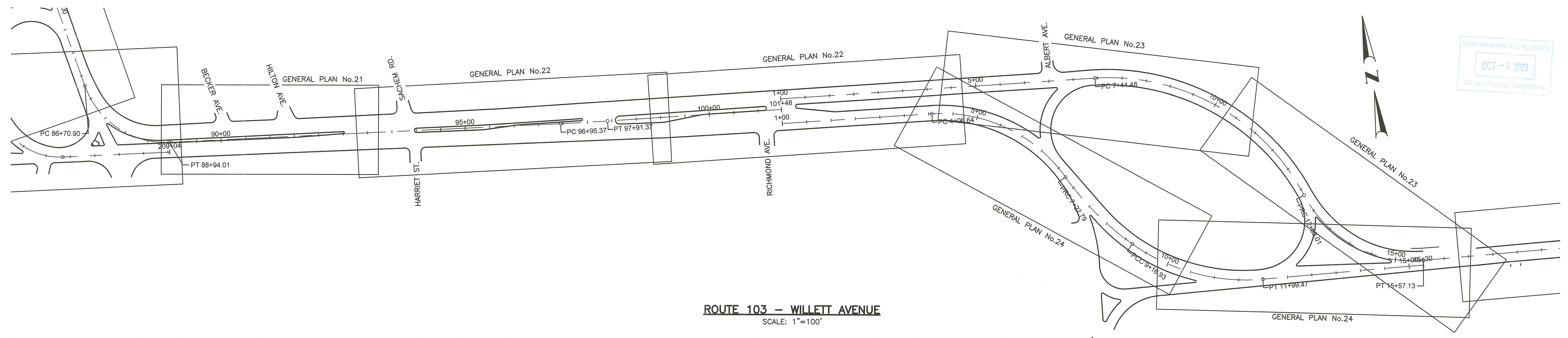
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NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

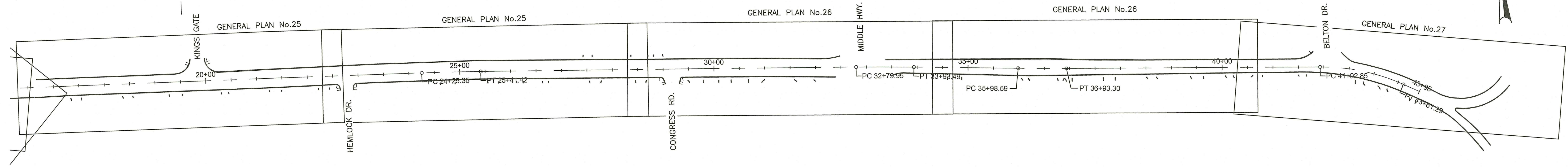
KEY PLAN SHEET 3

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			9	76

Environmental Management
 OCT - 6 2023
 Office of Water Resources



ROUTE 103 - WILLETT AVENUE
 SCALE: 1"=100'



ROUTE 103 - COUNTY ROAD
 SCALE: 1"=100'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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 DATE: AUGUST, 2023
 SHEET: 9
 OF: 76

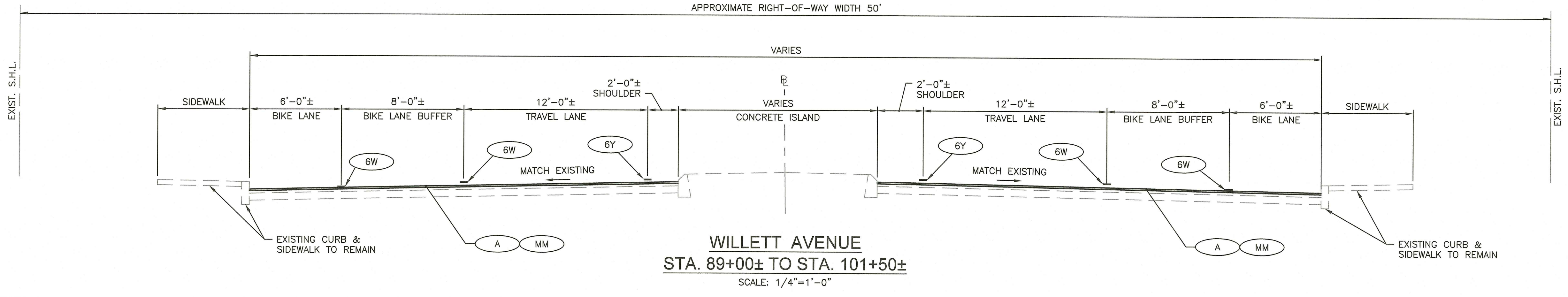
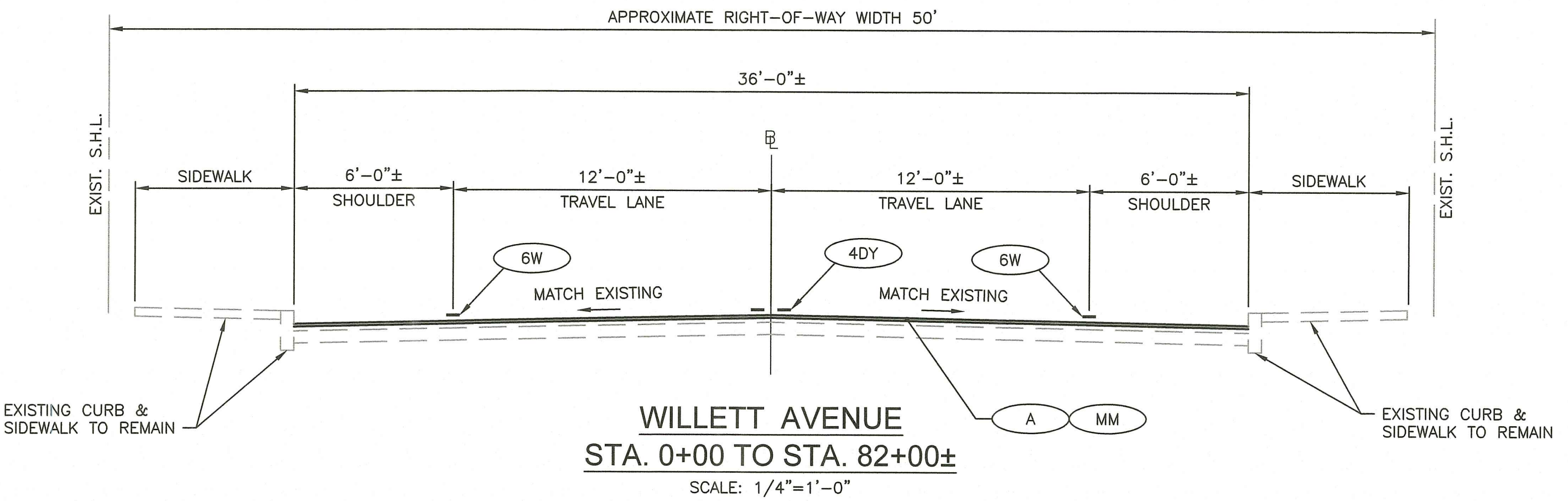
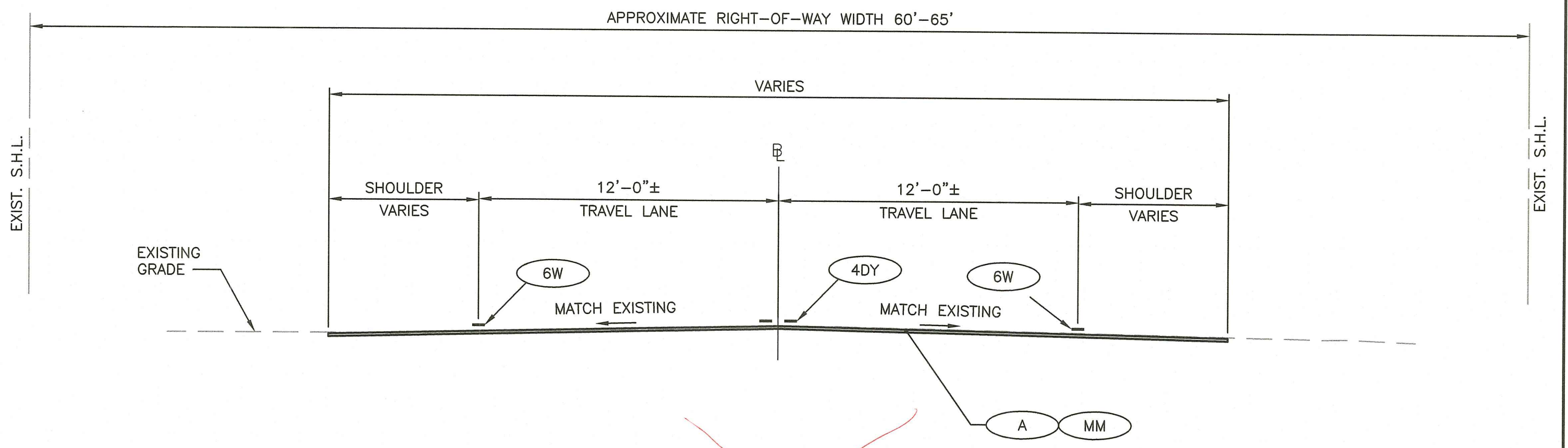
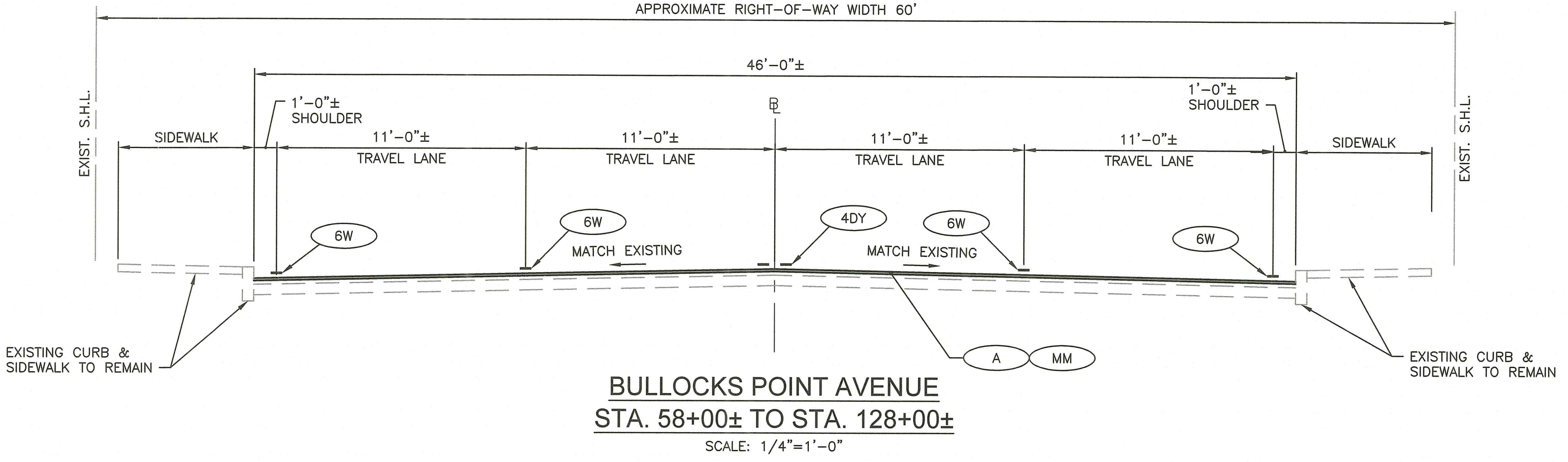
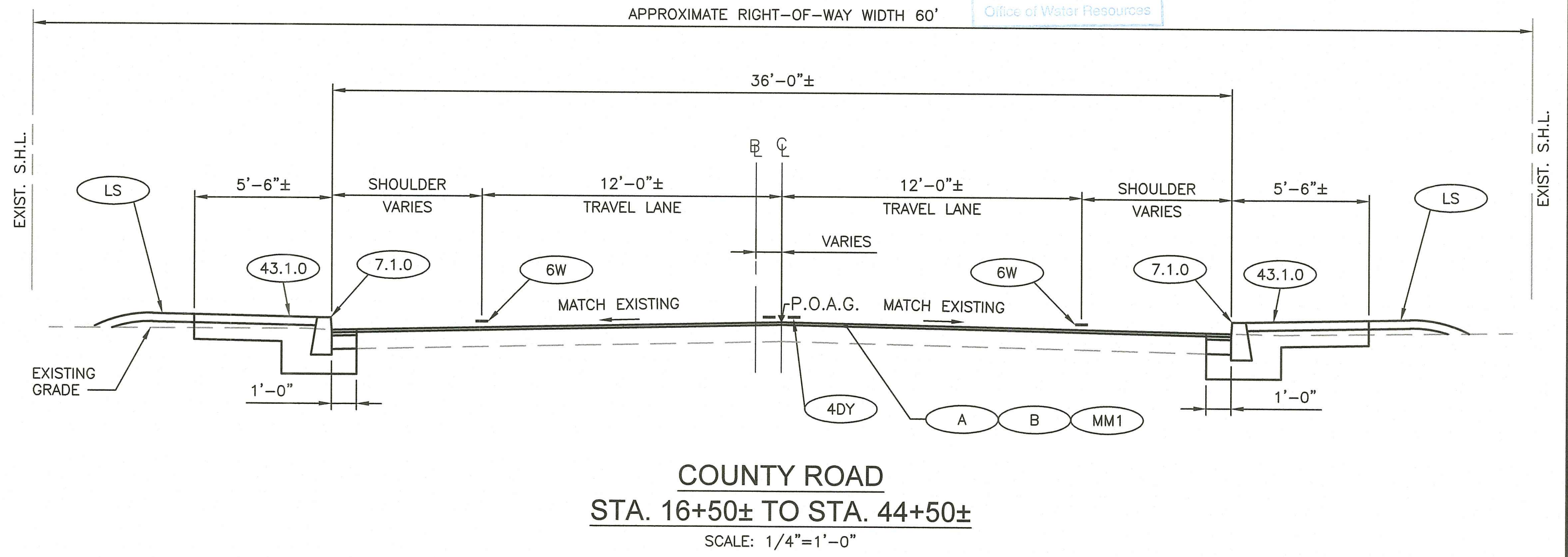
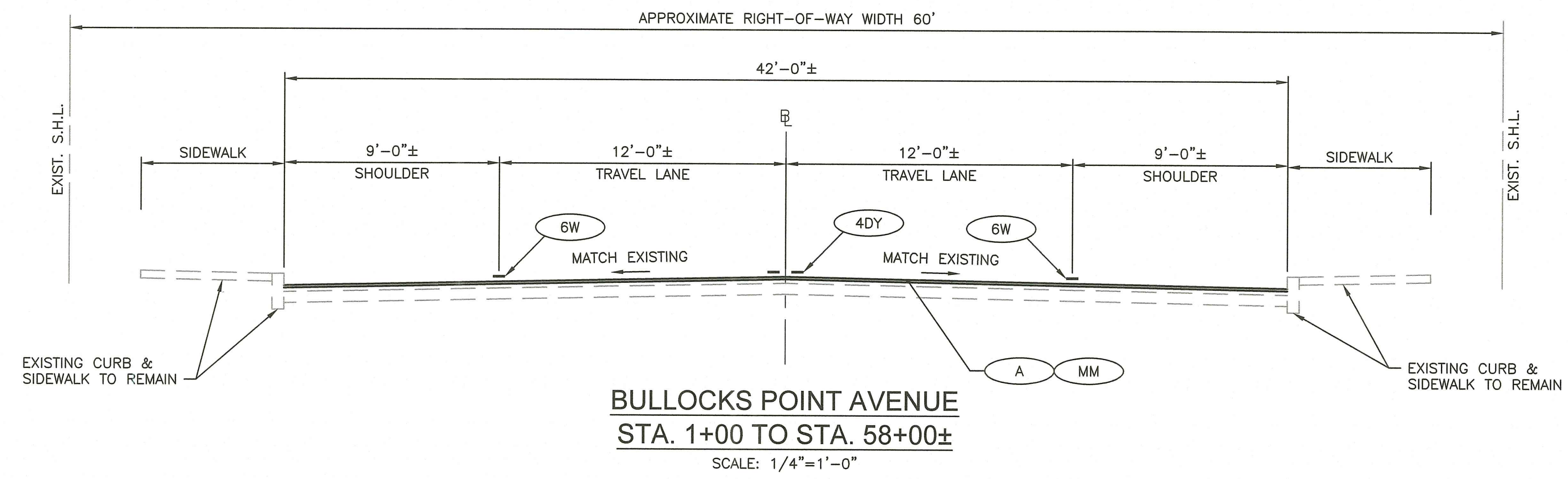
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NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

KEY PLAN SHEET 4

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			11	76

Environmental Management
 OCT - 6 2023
 Office of Water Resources



This Location not Reviewed under This Permit per RIDEM.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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LEGEND

- (A) 2" MODIFIED CLASS 12.5 HMA WITH PAY ADJUSTMENTS
- (B) 1"± CLASS 4.75 HMA
- (MM) MICRO MILLING (2")
- (MM1) MICRO MILLING (3")
- P.O.A.G. POINT OF APPLICATION OF CENTERLINE PROFILE GRADE



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

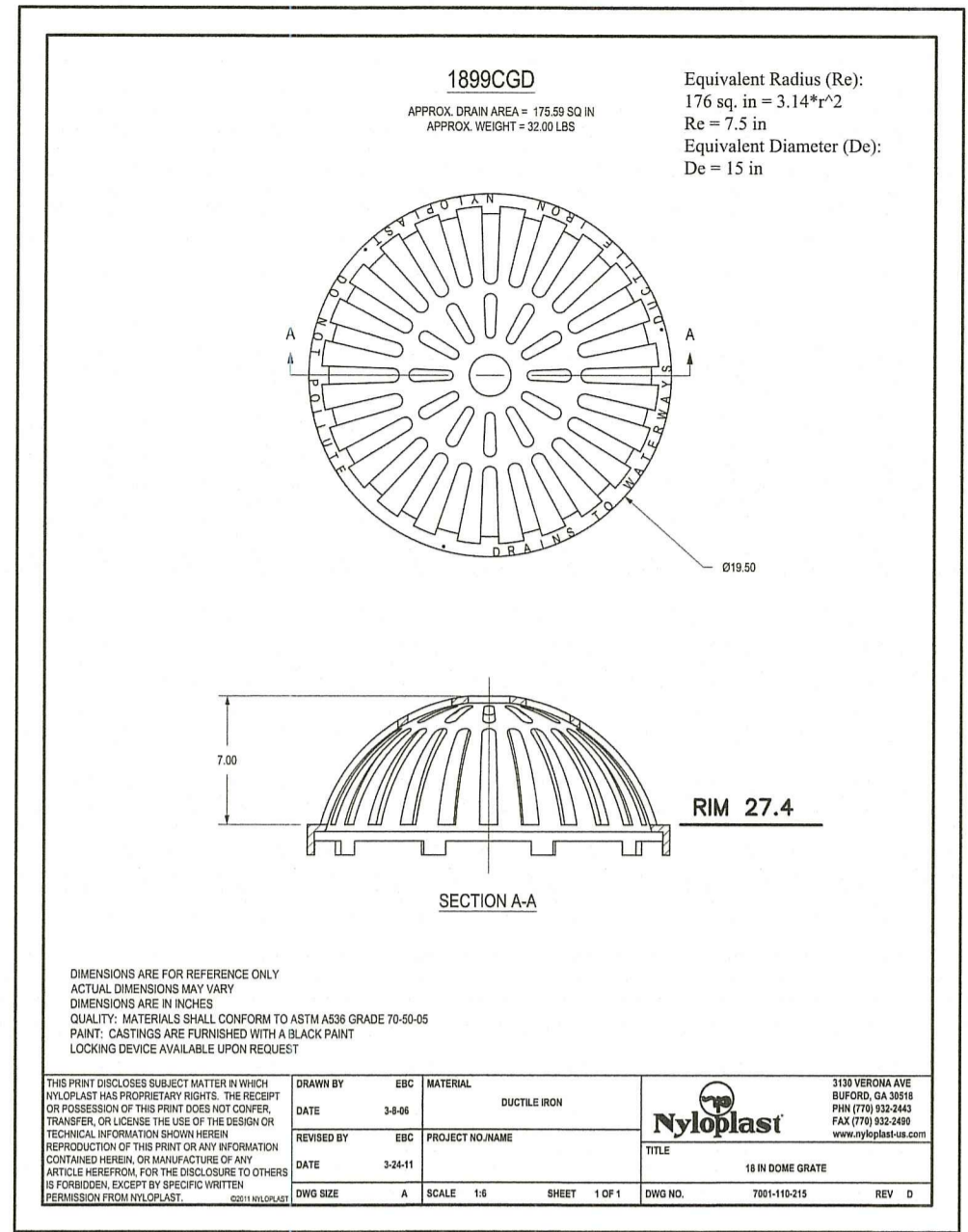
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 DATE: AUGUST, 2023
 SHEET: 11
 OF: 76

SCALE: 1"=4'

GRAPHIC SCALE					
0	1	2	3	4	5
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

TYPICAL SECTIONS



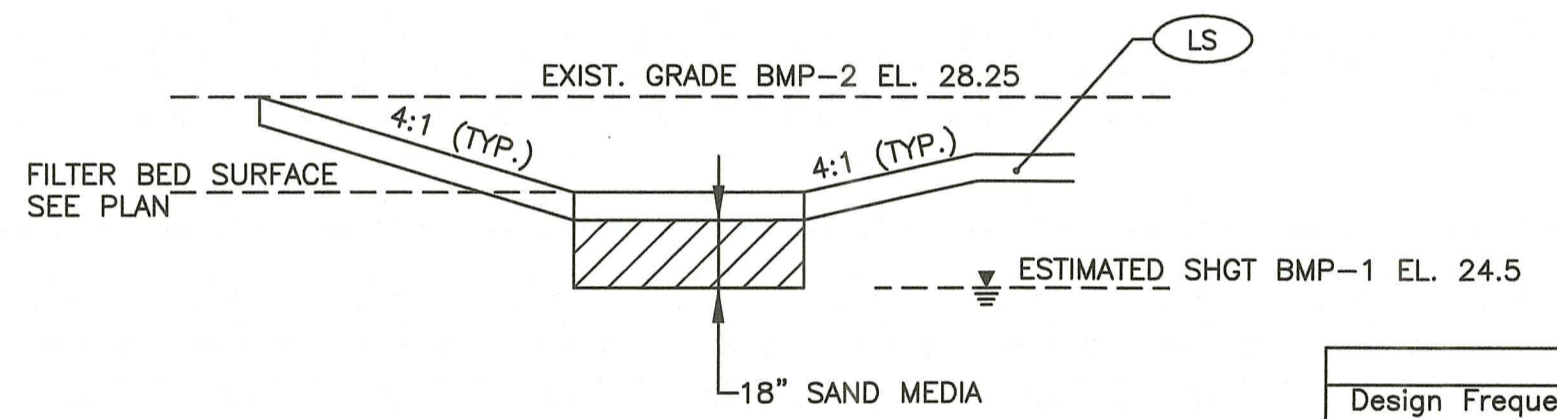
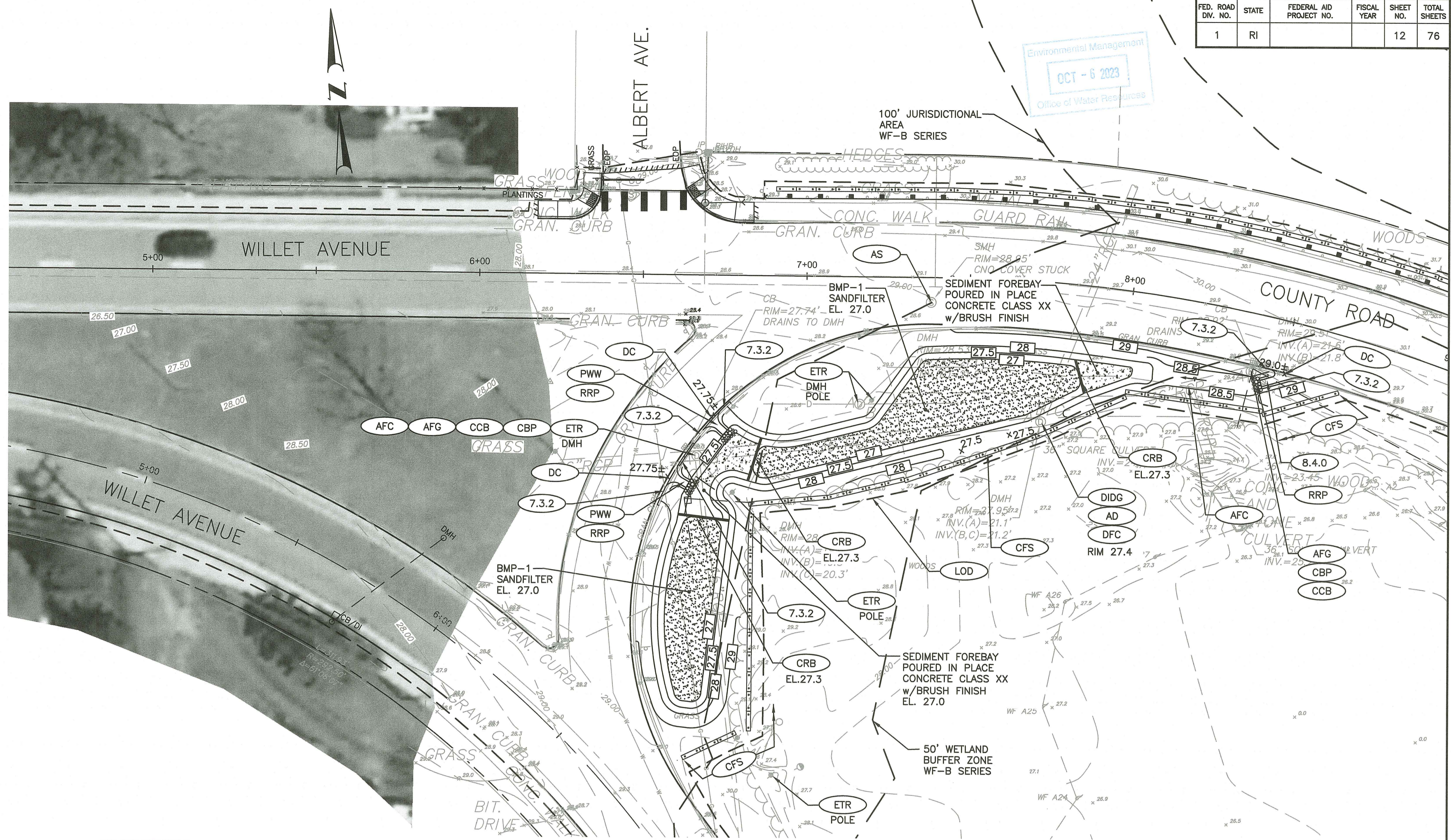
DUCTILE IRON DOME GRATE ASSEMBLY (DIDG)
NOT TO SCALE

GENERAL STORMWATER NOTES:

- PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL FIELD VERIFY THE CONTOURS AND ELEVATIONS IN THE STORMWATER MANAGEMENT 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.

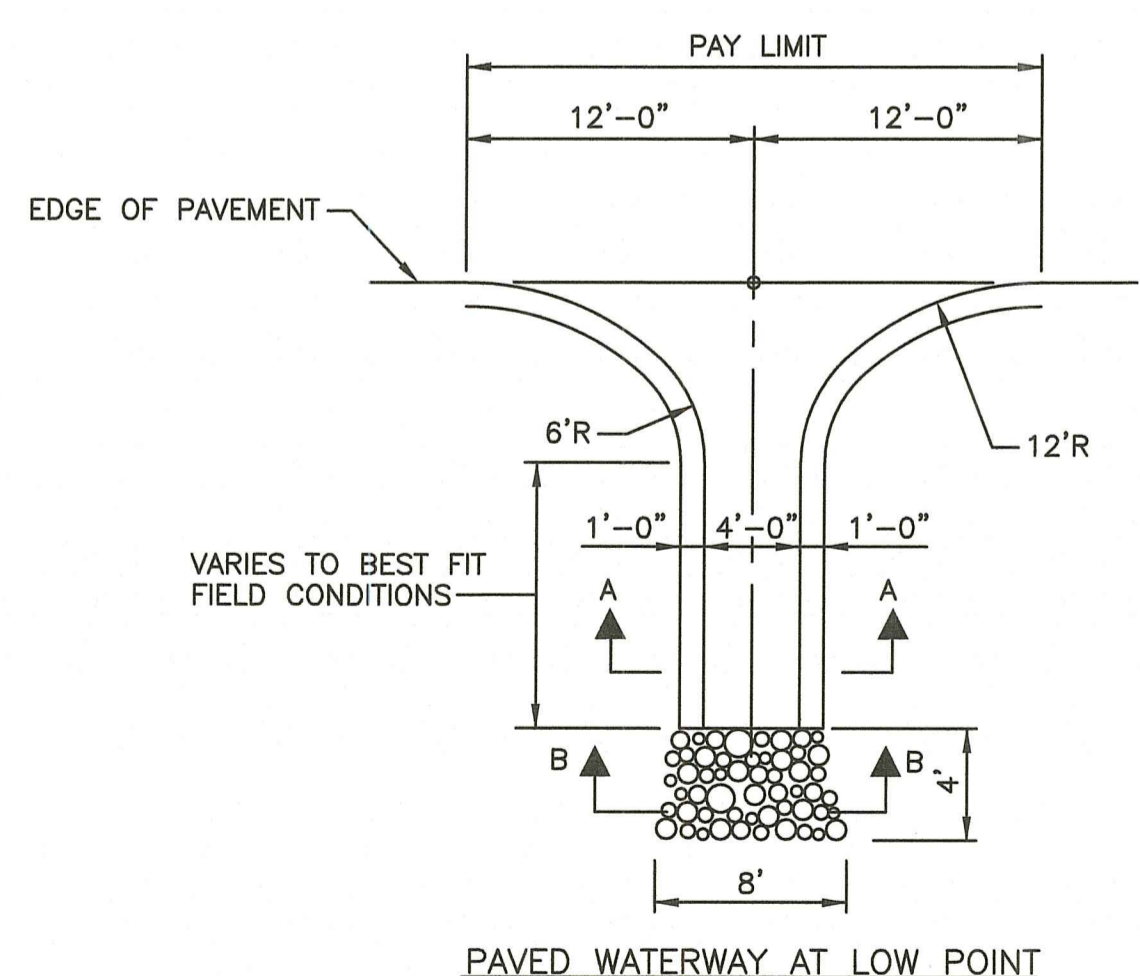
MEDIA NOTES:

- THE SAND FILTER MEDIA SHALL CONSIST OF A MEDIUM SAND THAT MEETS THE STANDARDS FOR ASTM C33/C33M-18 SPECIFICATIONS.
- AT LEAST 45 DAYS PRIOR TO THE START OF THE STORMWATER FACILITY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THE SOURCE OF THE SOILS TO THE ENGINEER FOR APPROVAL. NO TIME EXTENSIONS WILL BE GRANTED SHOULD THE PROPOSED SOILS FAIL TO MEET THE REQUIREMENTS STATED HEREIN AND PER SPECIFICATION.
- MEDIA THAT FAILS TO MEET THE REQUIREMENTS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.

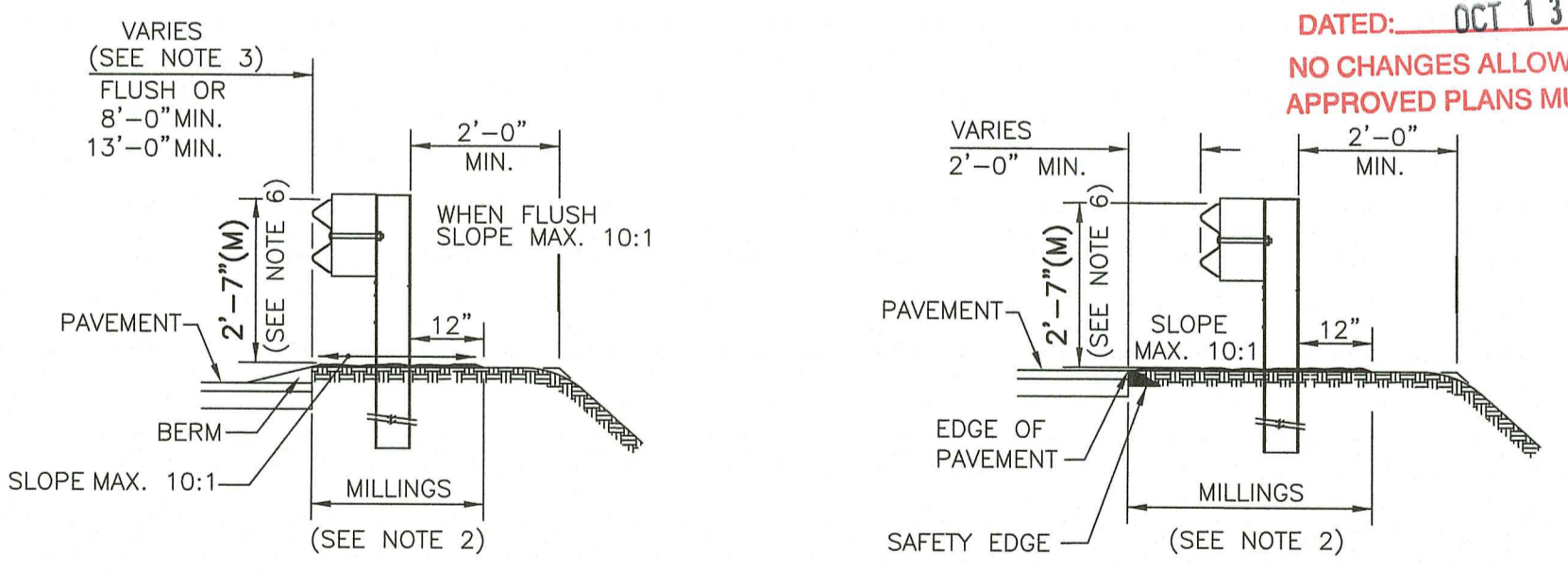
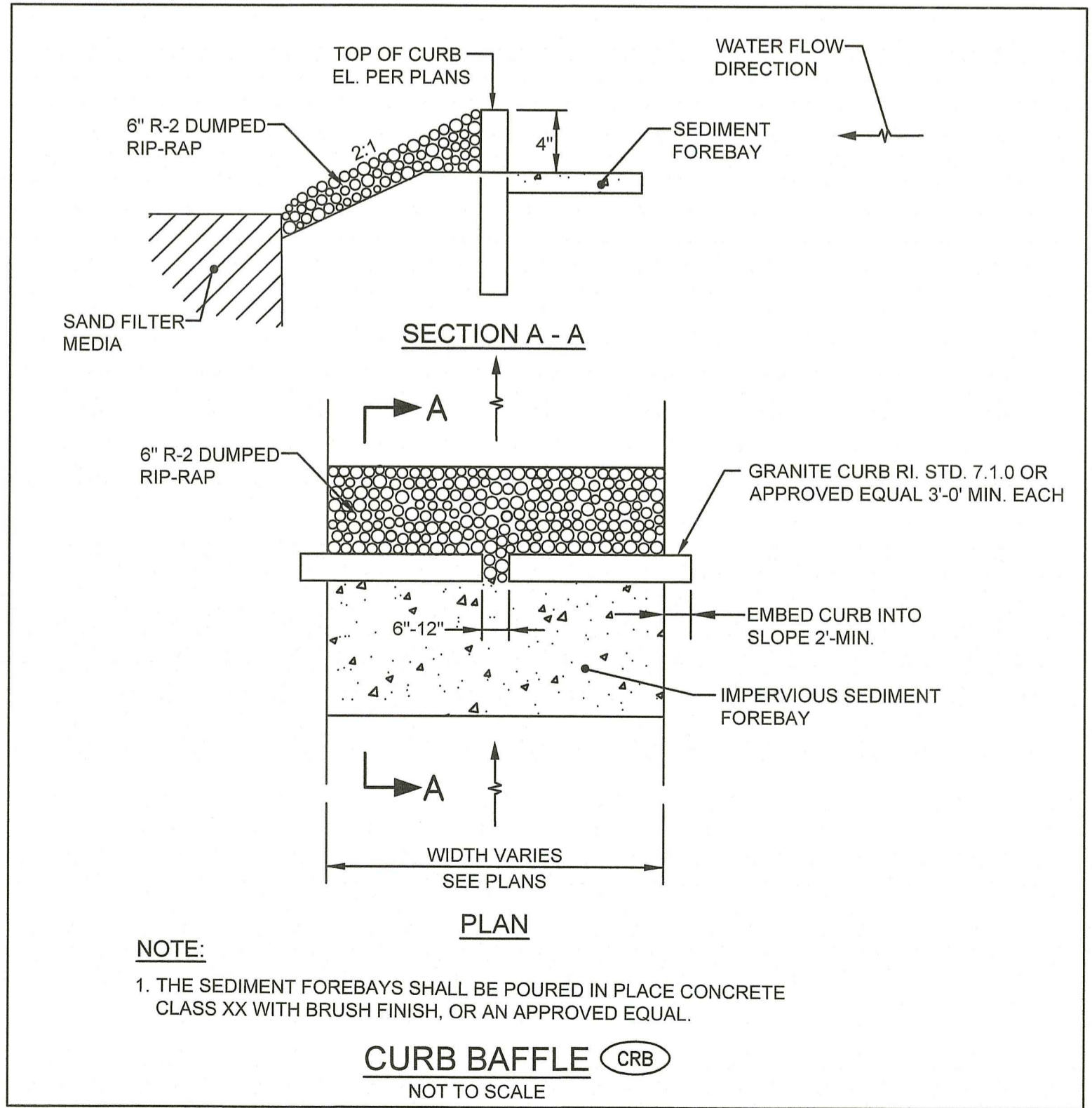
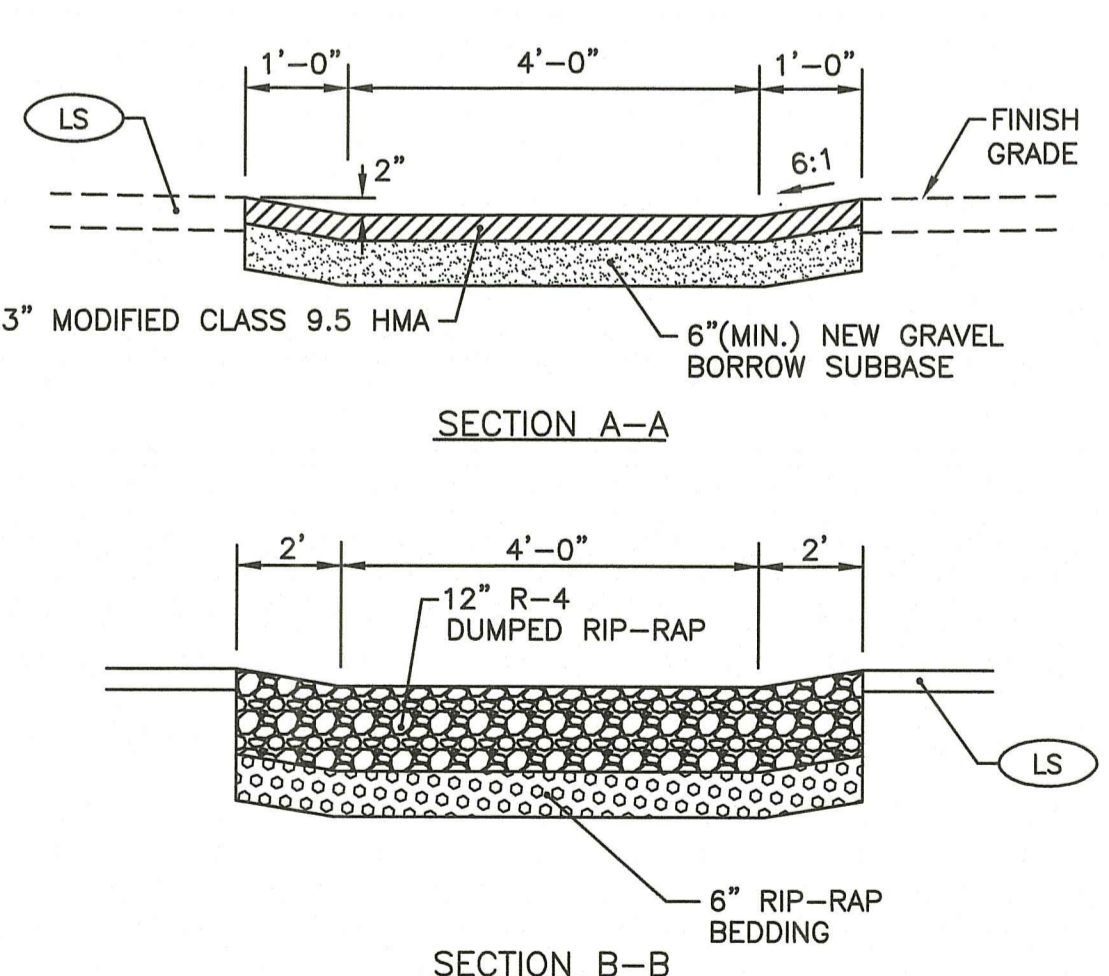


TYPICAL SAND FILTER DETAIL
NOT TO SCALE

BMP-1	
Design Frequency Storm Event	Peak Elevation
1.2-inch	26.43
1-year	27.44
2-year	27.50
10-year	27.62
25-year	27.66
100-year	27.73



PAVED BERM WATERWAY (PWV)
NOT TO SCALE



NOTES:

- SHALL BE IN ACCORDANCE WITH SECTIONS 901, 902 OF THE RI STANDARD SPECIFICATIONS.
- SHALL BE IN ACCORDANCE WITH SECTION 213 OF THE RI STANDARD SPECIFICATIONS.
- SETBACK FROM CURB FACE OR BERM AS SPECIFIED ON PLANS, 8" LESS THAN 40 MPH; 13" LESS THAN 50 MPH.
- W-BEAM POSTS W6X9 STANDARD 72 INCHES OR AS SPECIFIED ON PLANS.
- THREE BEAM POSTS W6X9 STANDARD 81 INCHES OR AS SPECIFIED ON PLANS.
- TOP OF RAIL HEIGHT MEASURED FROM 10:1 SURFACE.
- ADJUST THE HEIGHT TO MEET EXISTING GUARDRAIL AT A RATE OF 10.58 FEET/ONE INCH VERTICAL DIFFERENCE.

ROADSIDE GUARDRAIL INSTALLATION (MODIFIED)
NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

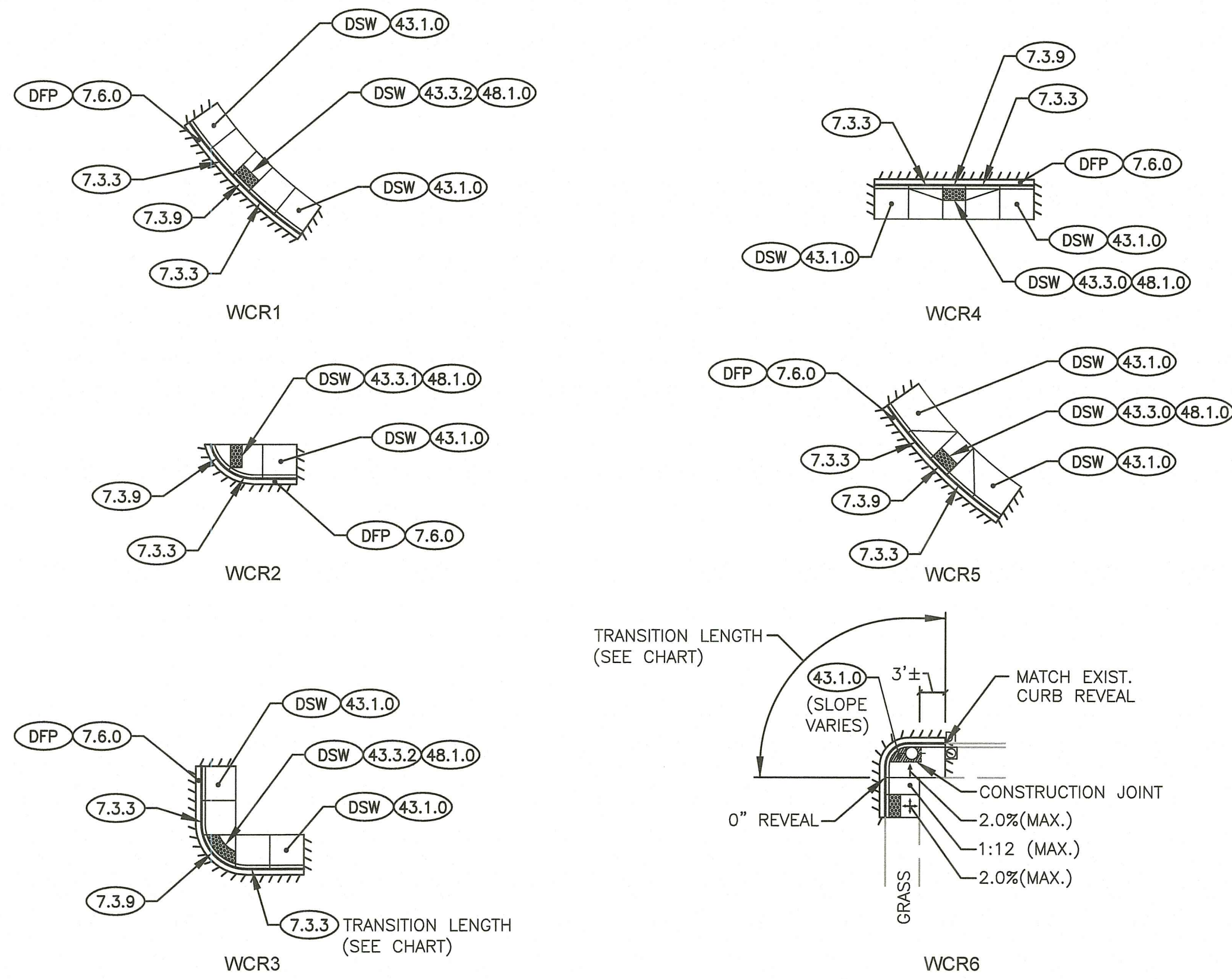
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DATE: AUGUST, 2023
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PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
EAST PROVIDENCE, BARRINGTON, WARREN
RHODE ISLAND

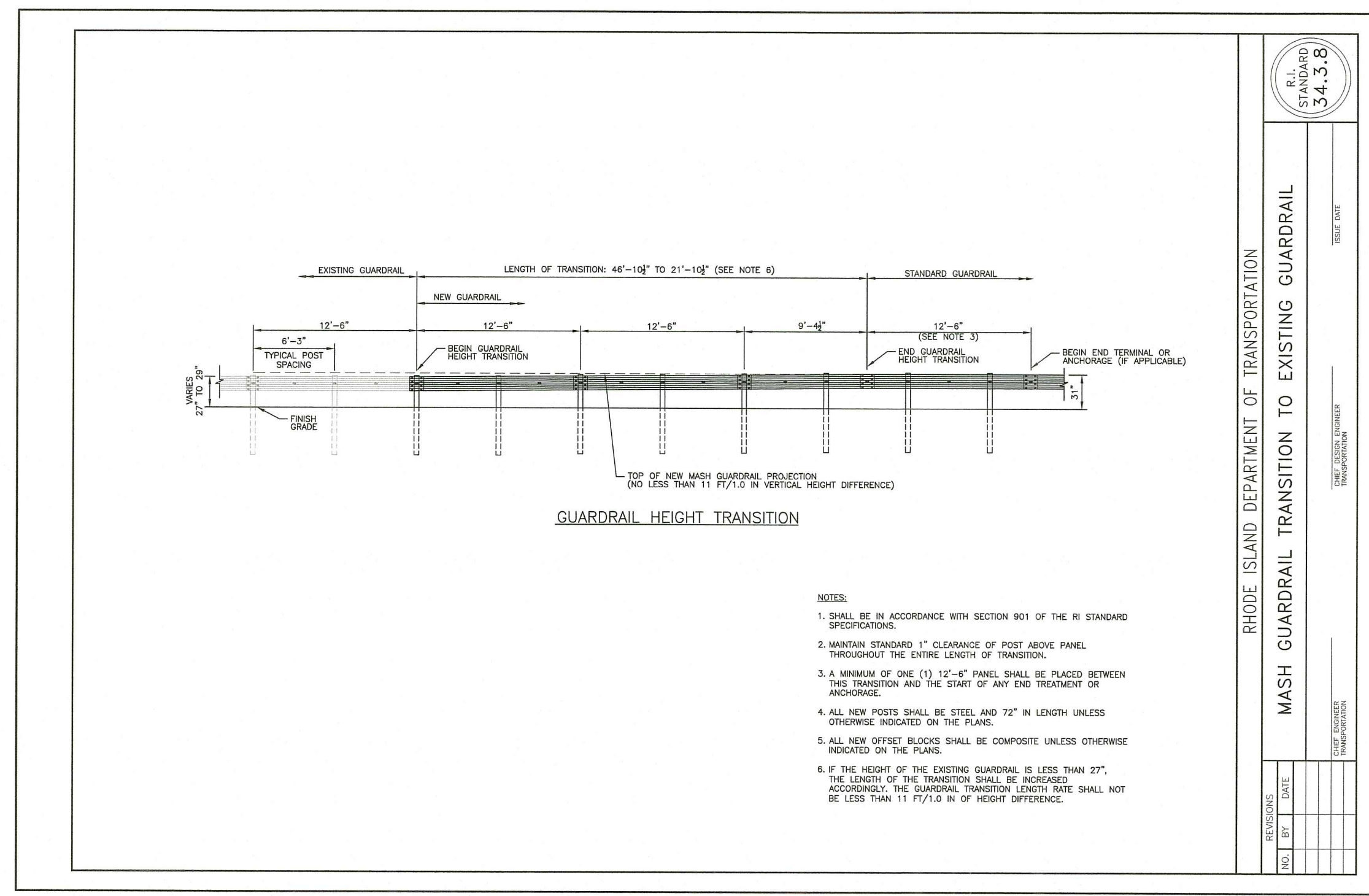
MISCELLANEOUS DETAILS - 1

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			13	76

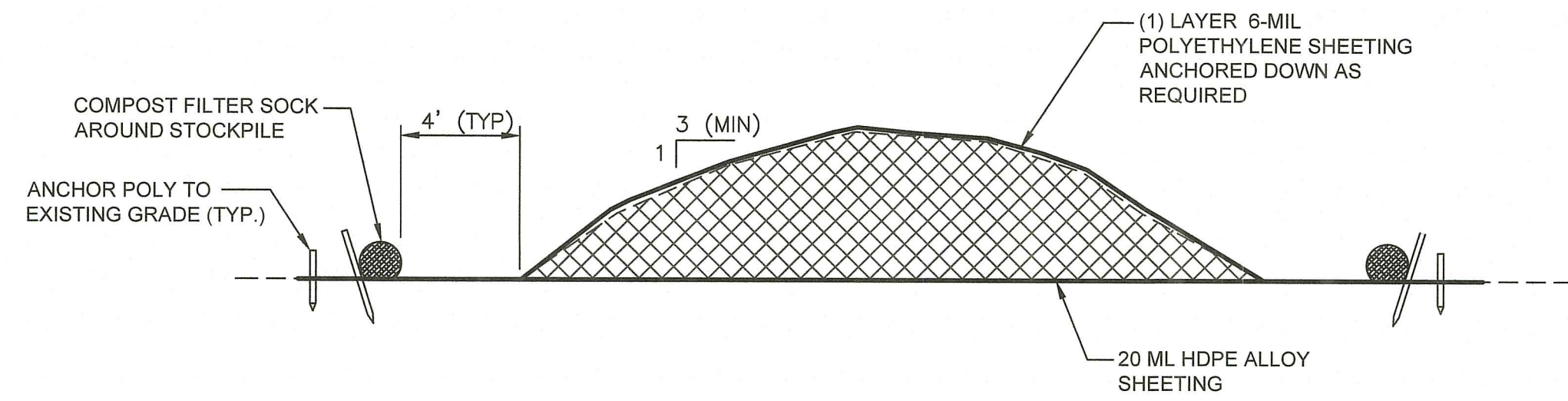
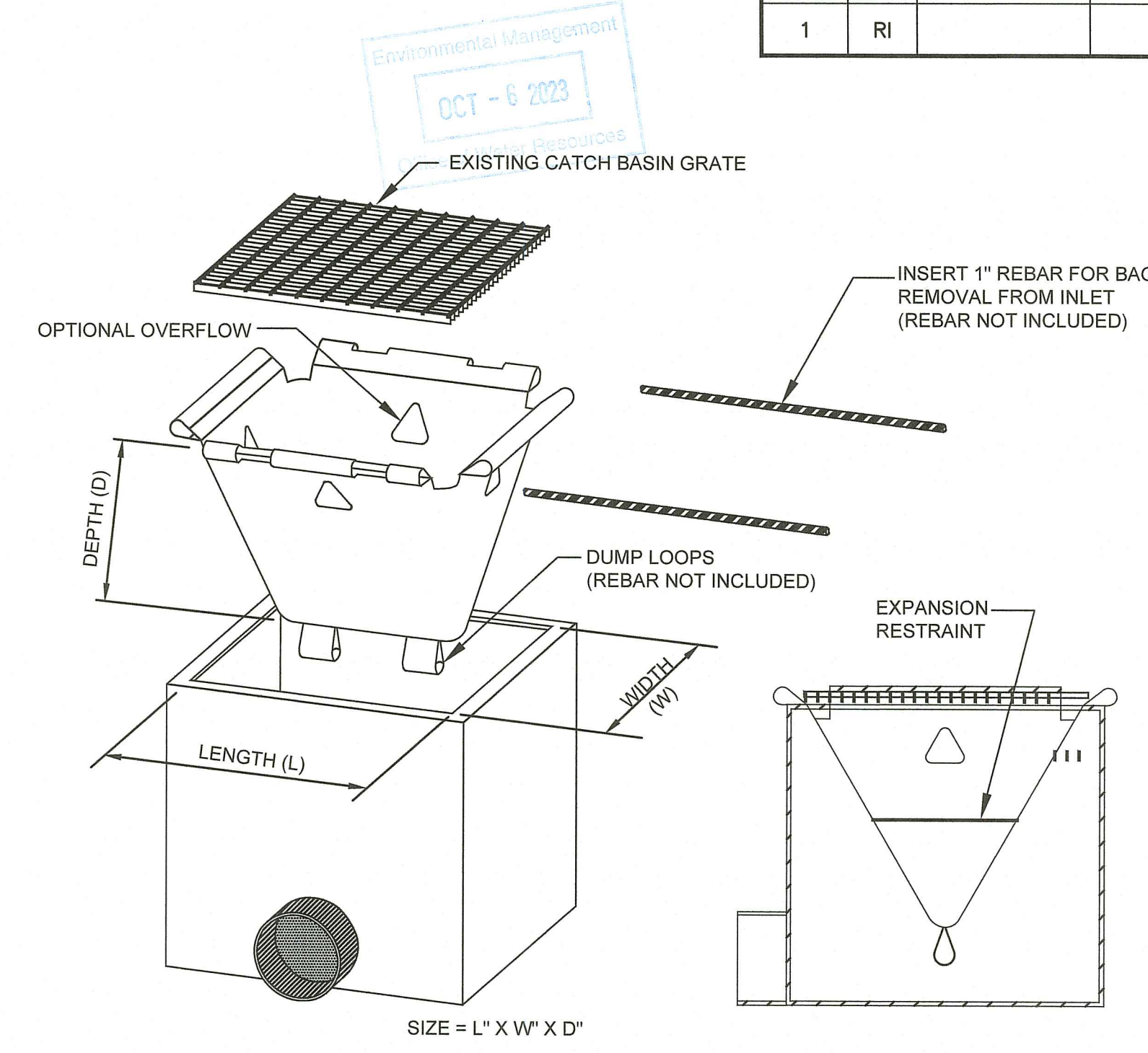


NOTE:
FOR 7.1.3 TRANSITION LENGTHS SEE WHEELCHAIR CHARTS (SHEETS 14-15)

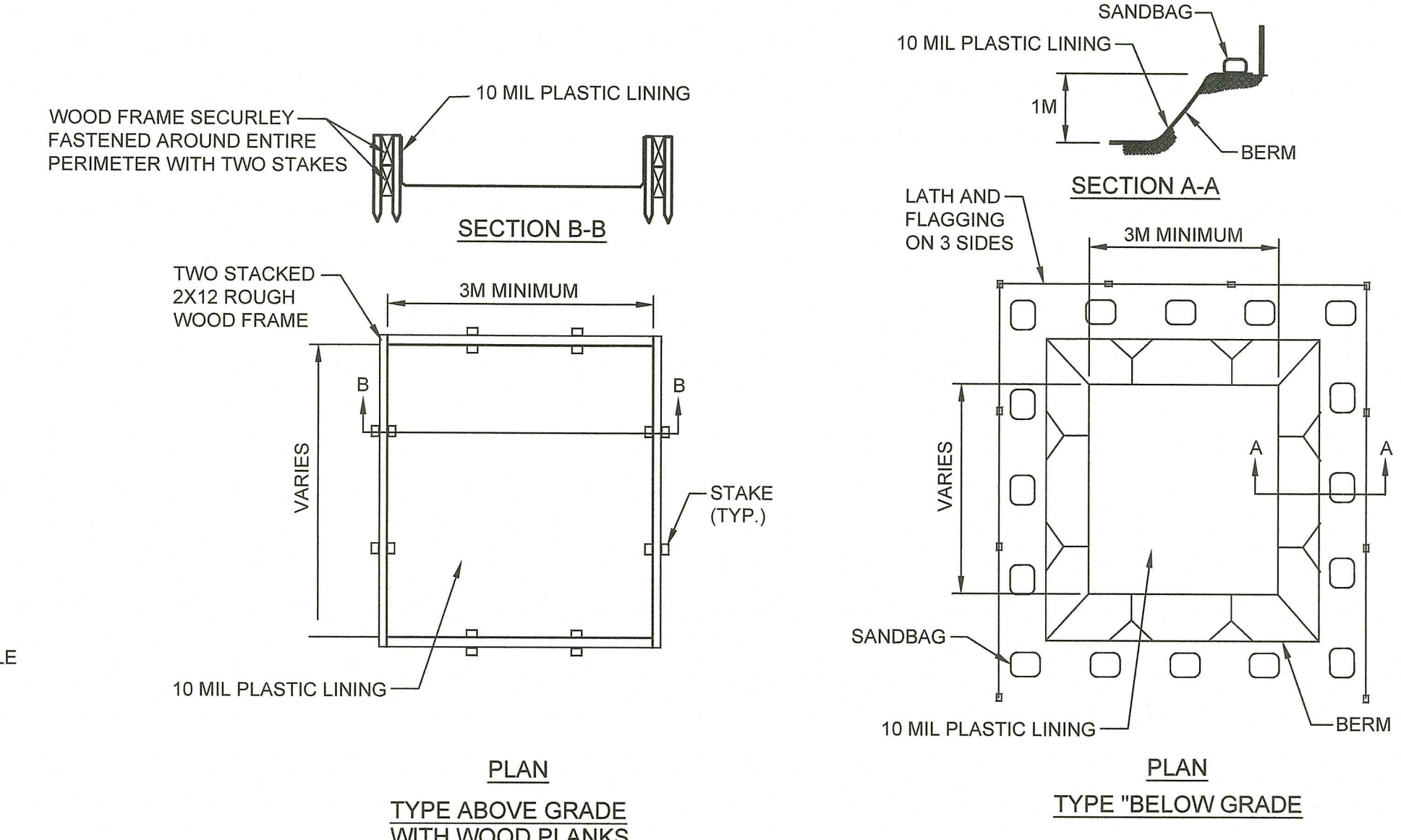
WHEELCHAIR RAMP DETAILS
SCALE: 1" = 20'



MASH GUARDRAIL TRANSITION TO EXISTING GUARDRAIL
NOT TO SCALE

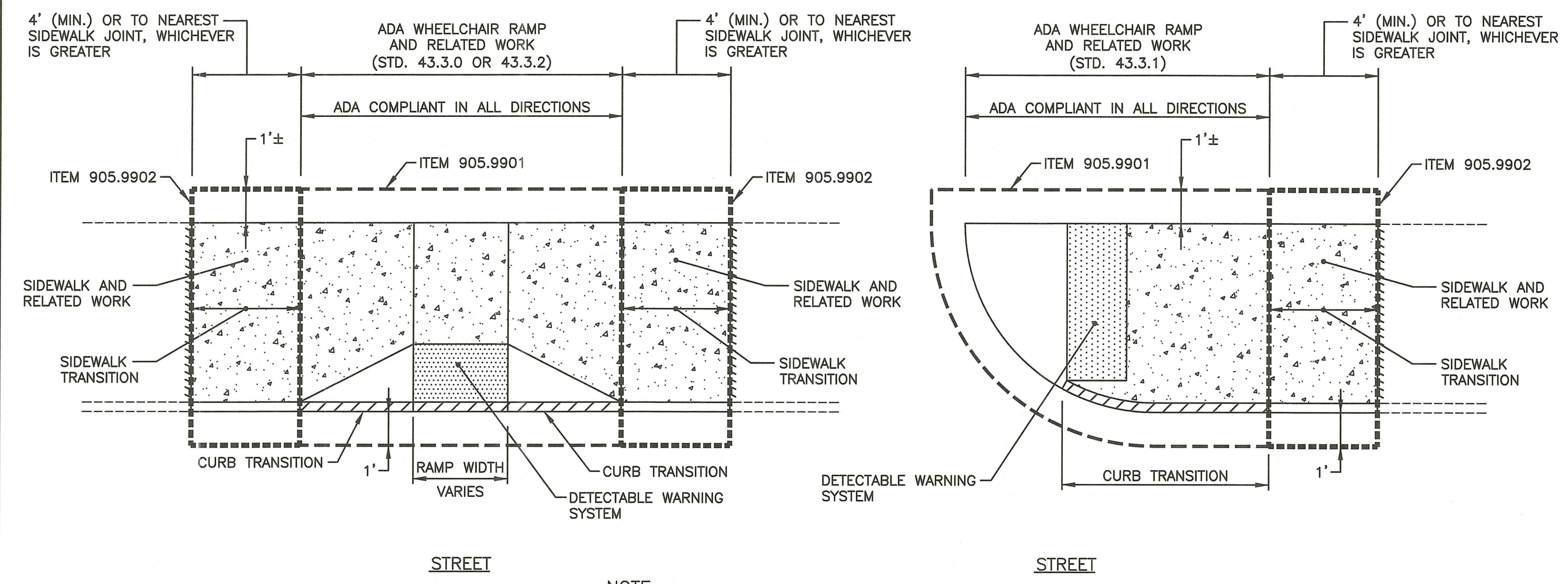


NOTE:
THE CONTRACTOR SHALL COVER THE SOIL STOCKPILE WITH 6-MIL POLYETHYLENE SHEETING AND SECURE COVER AT THE END OF EACH WORK DAY.

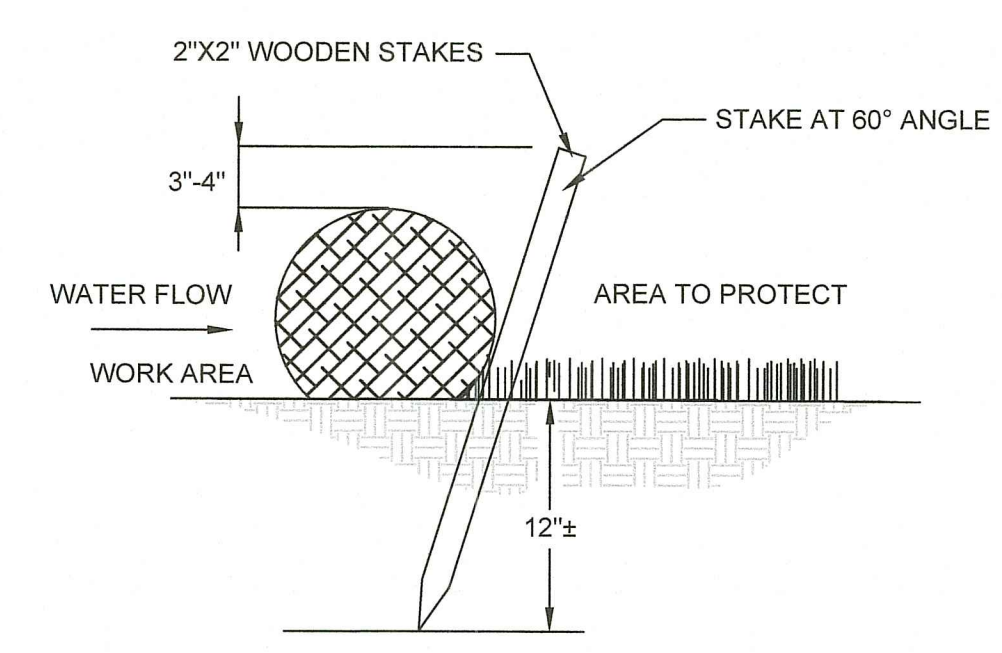


• SELF-INSTALLED ABOVE GRADE WASHOUTS ON LARGER SITES MUST BE AT LEAST 10 FEET BY 10 FEET LONG AND SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE EXPECTED TO BE GENERATED IN BETWEEN CLEANOUT PERIODS. WASHOUTS AT SMALLER SITES CAN BE SMALLER ACCORDING TO THE EXPECTED CAPACITY NEEDED. INCLUDE A MINIMUM OF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



NOTE:
1. THE ADA WHEELCHAIR AND RELATED WORK LIMITS MAY VARY AT EACH LOCATION. THE CONTRACTOR WILL REVIEW THE WORK LIMITS IN THE FIELD WITH THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.



NOTES:
1. 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.

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

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SHEET: 13
OF: 76

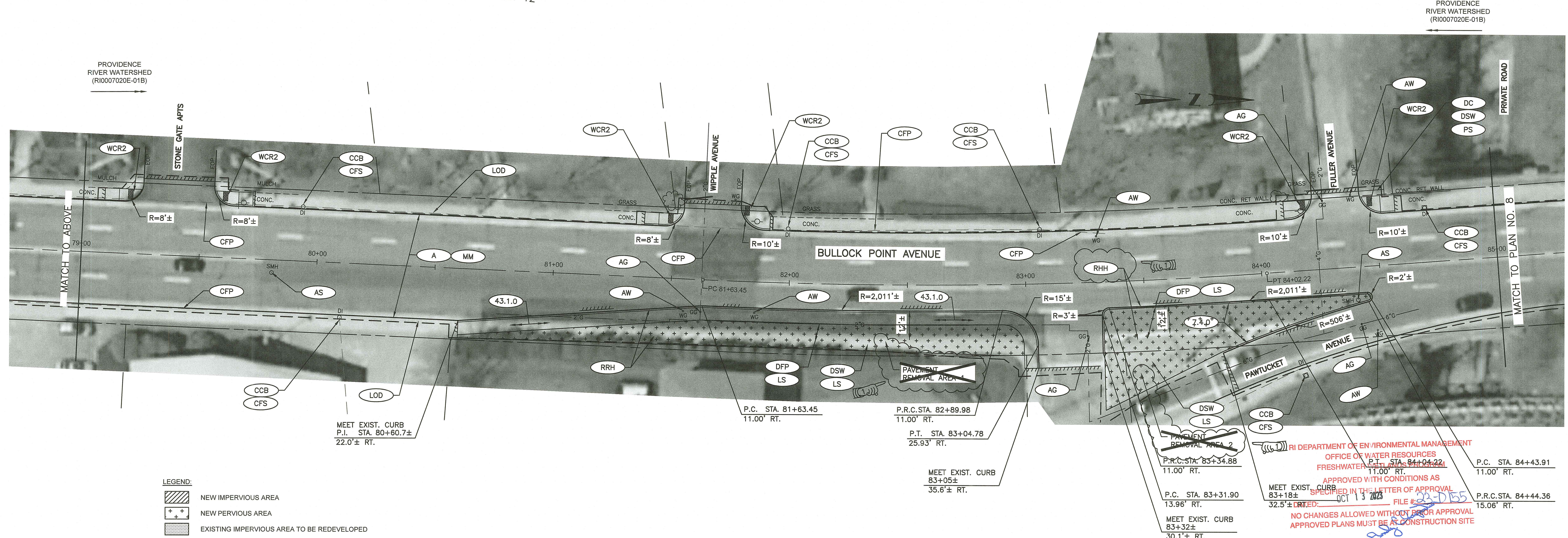
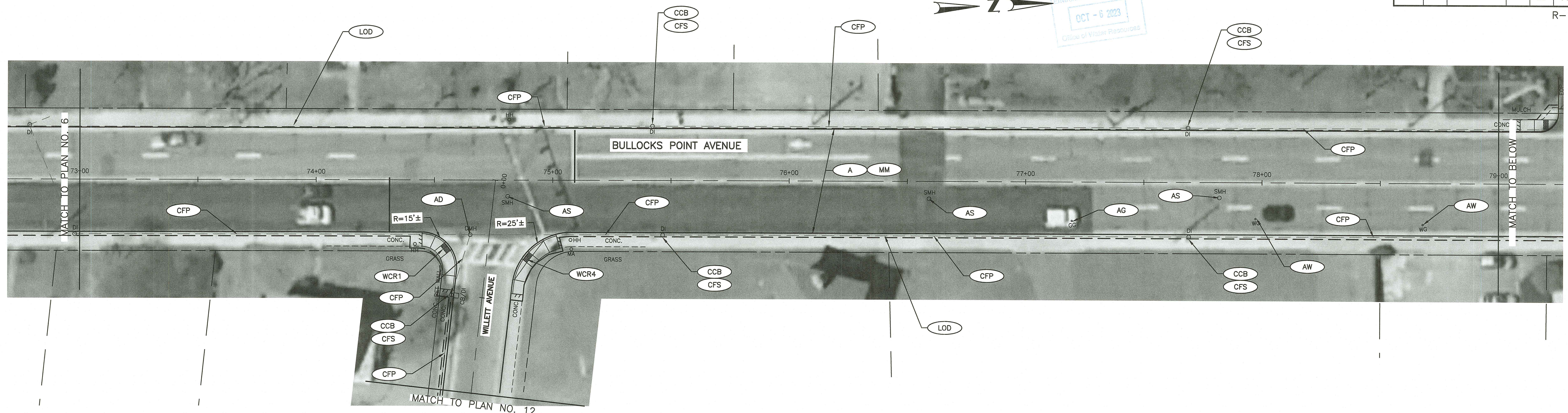
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NO.	DATE	NO.	DATE

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
EAST PROVIDENCE, BARRINGTON, WARREN
RHODE ISLAND

MISCELLANEOUS DETAILS - 2

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			22	76

R-1



LEGEND:

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	NEW PERVIOUS AREA
	EXISTING IMPERVIOUS AREA TO BE REDEVELOPED

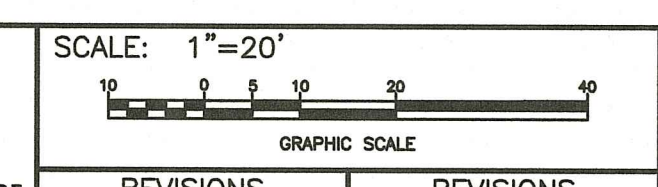
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 OFFICE OF WATER RESOURCES
 FRESHWATER P.L. STA. 84+43.91
 11.00' RT.
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 OCT 13 2023 FILE # 23-D155
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ADDENDUM NO. 1



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

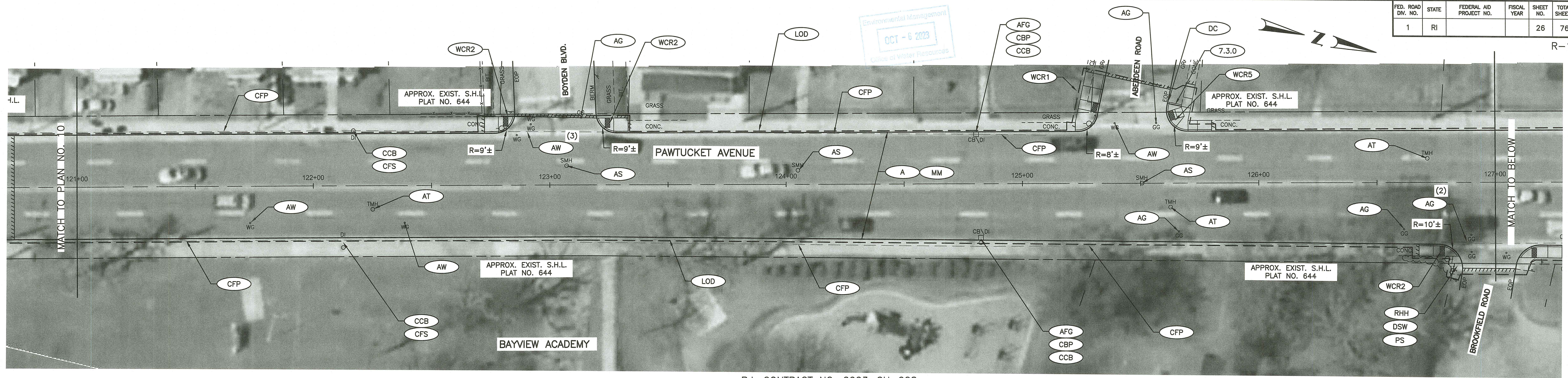
DESIGNED BY:
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 DATE: AUGUST, 2023
 SHEET: 22
 OF: 76



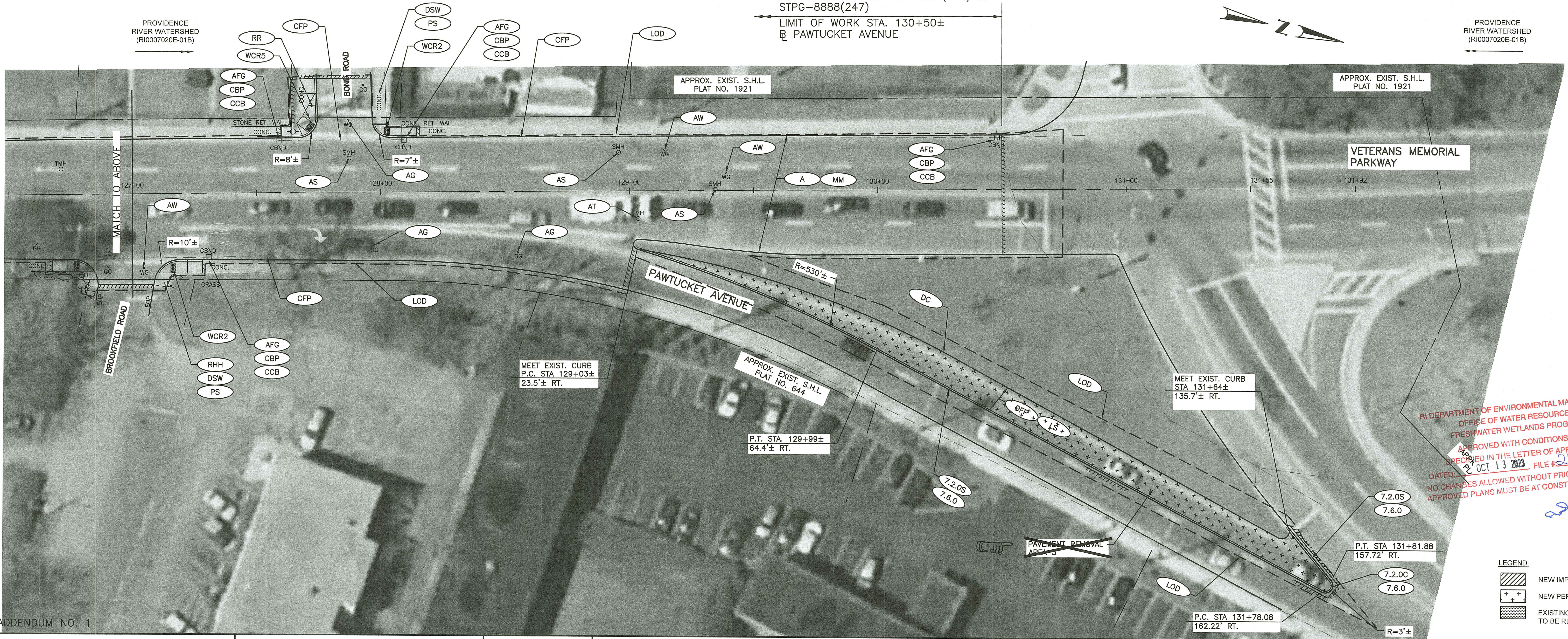
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	9/20/2023	RCC			

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

GENERAL PLAN No.7



R.I. CONTRACT NO. 2023-CH-028
 F.A. PROJECT NOS. STP-RESF(464) &
 STPG-8888(247)
 LIMIT OF WORK STA. 130+50±
 @ PAWTUCKET AVENUE



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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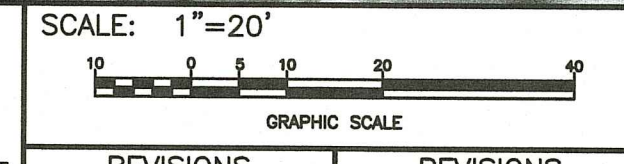
	NEW IMPERVIOUS AREA
	NEW PERVIOUS AREA
	EXISTING IMPERVIOUS AREA TO BE REDEVELOPED

ADDENDUM NO. 1



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
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 SHEET: 26
 OF: 76



REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
1	9/20/2023	RCC			

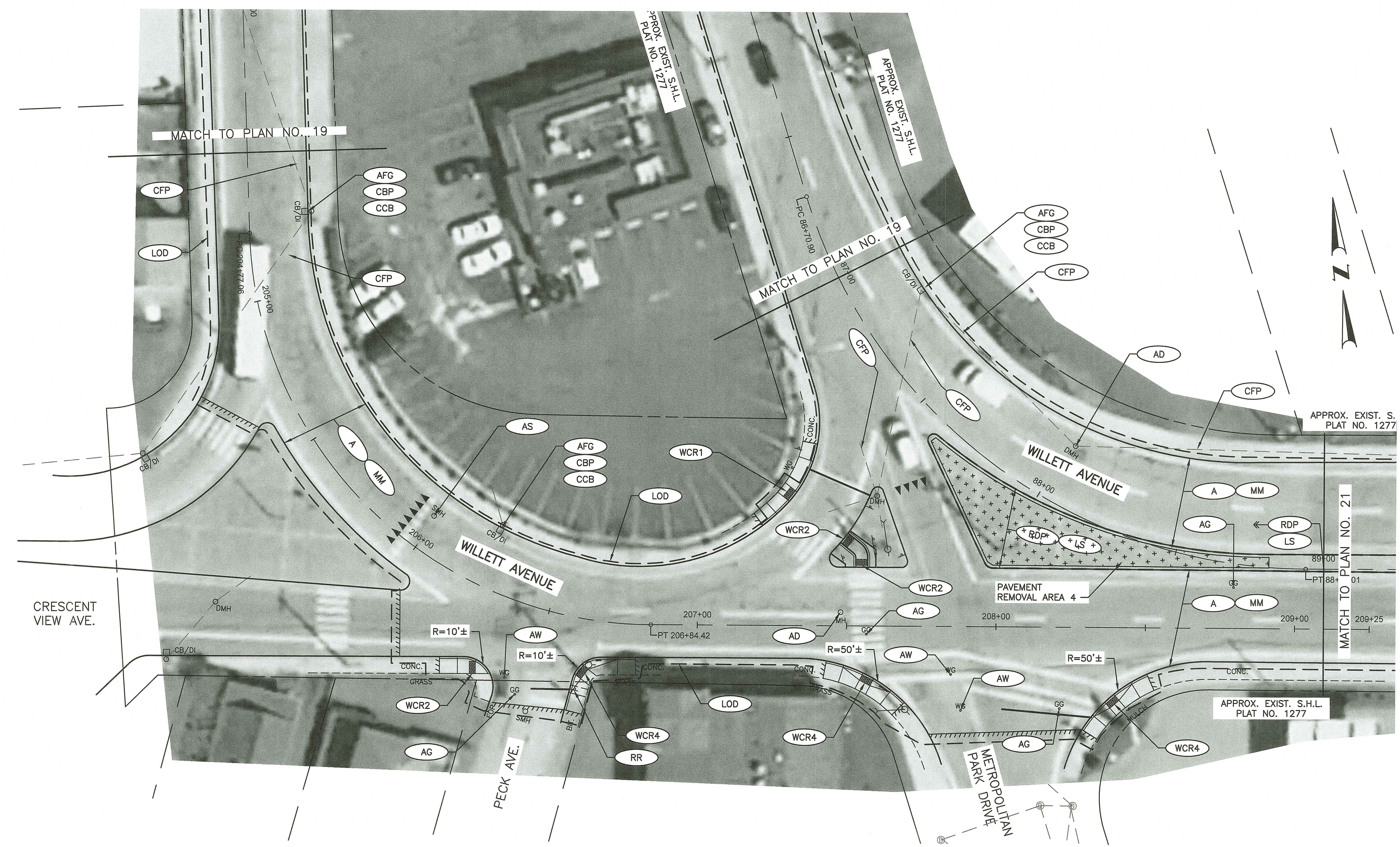
PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

GENERAL PLAN No.11

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			35	76

ANNAWAMSCUTT BROOK
WATERSHED
(RI0007020R-02)

ANNAWAMSCUTT BROOK
WATERSHED
(RI0007020R-02)



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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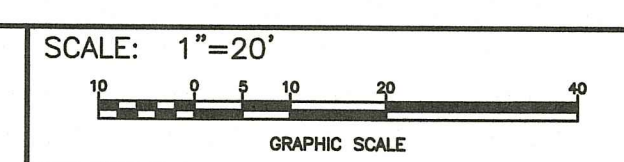
LEGEND:

	NEW IMPERVIOUS AREA
	NEW PERVIOUS AREA
	EXISTING IMPERVIOUS AREA TO BE REDEVELOPED



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
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SHEET: 35
OF: 76



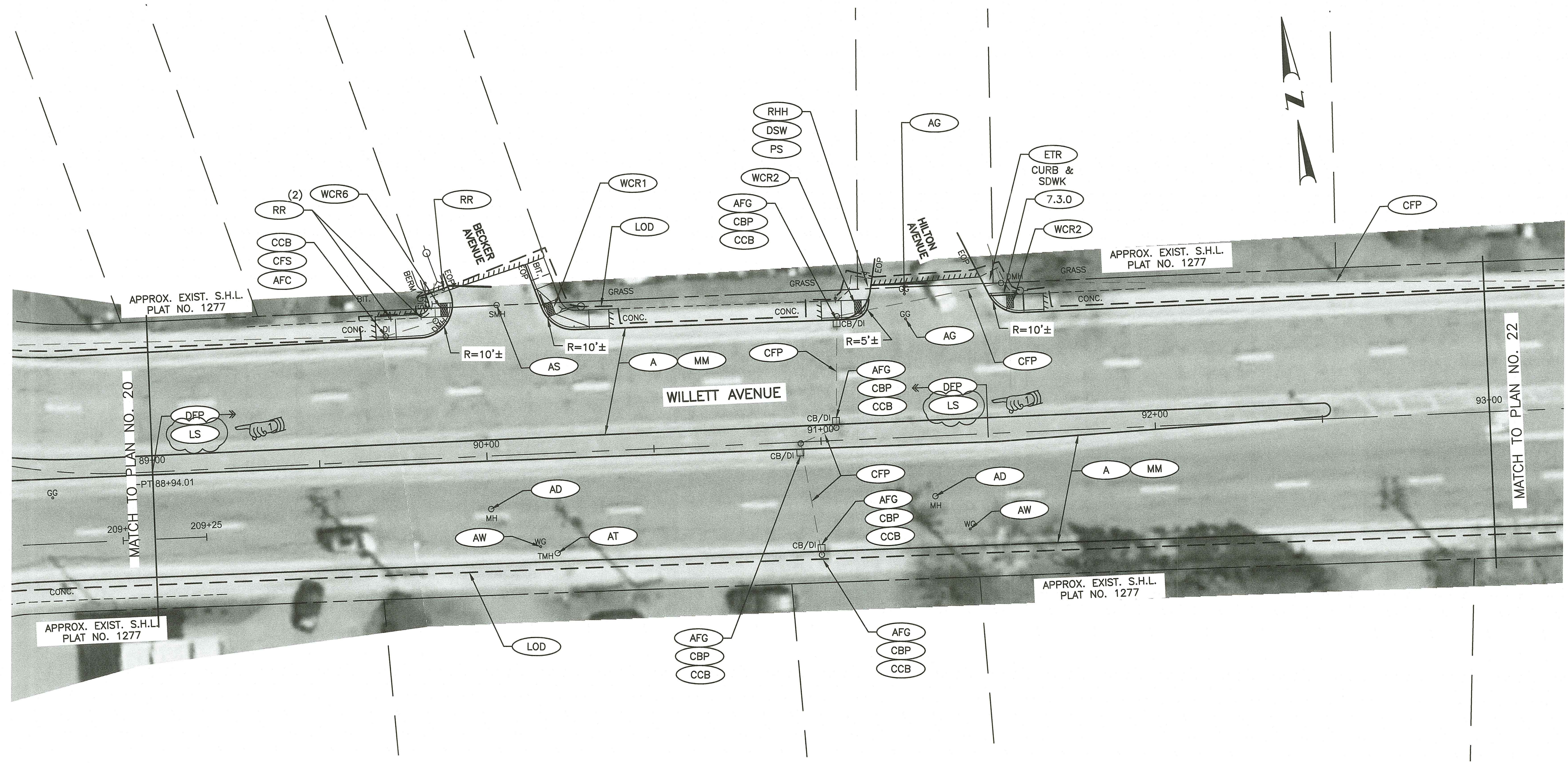
REVISIONS					
NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
EAST PROVIDENCE, BARRINGTON, WARREN
RHODE ISLAND

GENERAL PLAN No. 20

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Environmental Management
 OCT - 6 2023
 Office of Water Resources



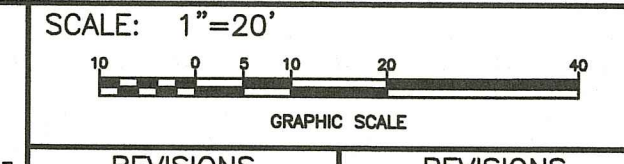
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: OCT 13 2023 FILE # 23-0155
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

ADDENDUM NO. 1



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
 CHECKED BY:
 DATE: AUGUST, 2023
 SHEET: 36
 OF: 76



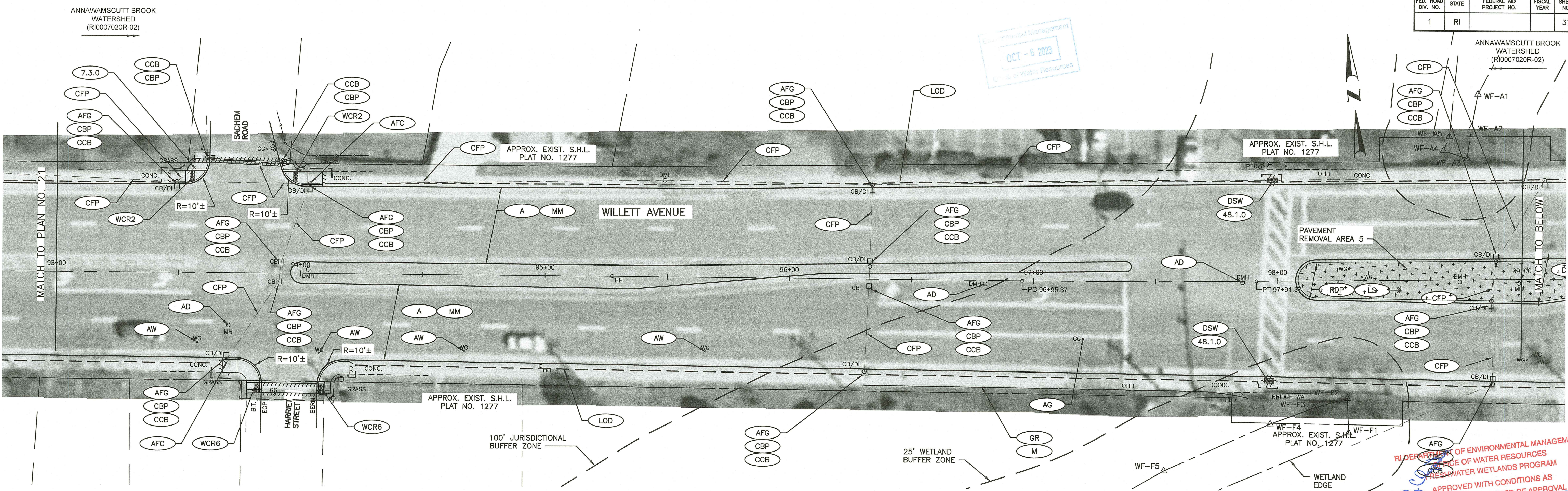
REVISIONS					
NO.	DATE	BY	NO.	DATE	BY
1	9/20/2023	RCC			

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

GENERAL PLAN No. 21

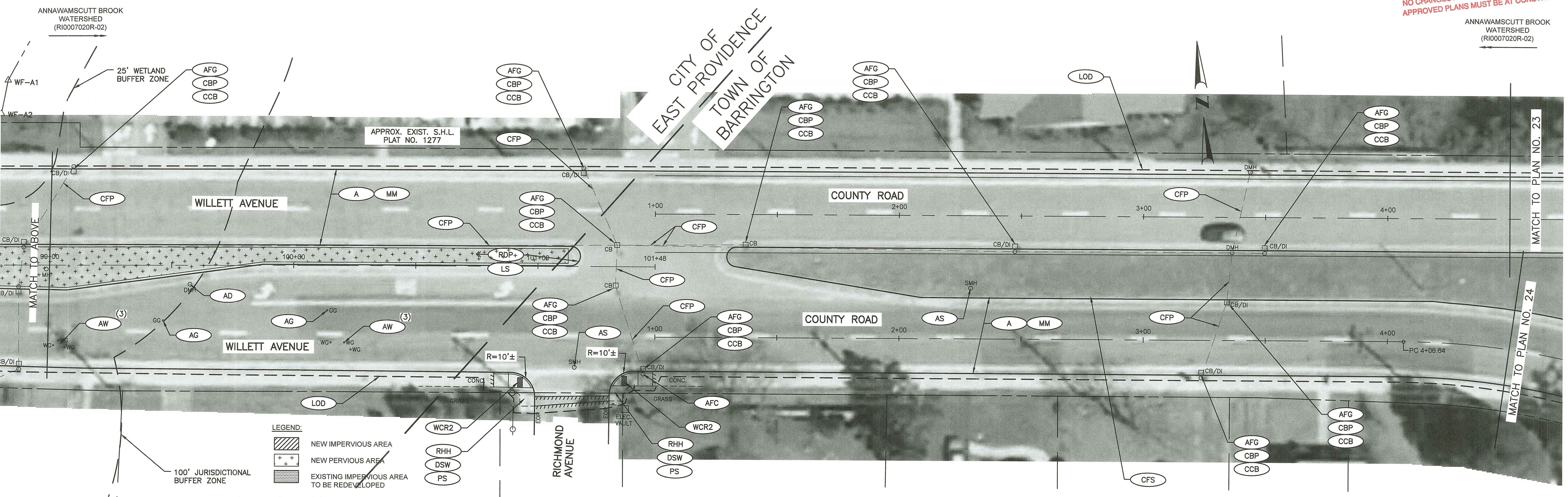
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			37	76

Environmental Management
 OCT - 6 2023
 City of Water Resources



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF WATER RESOURCES
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CITY OF EAST PROVIDENCE
 TOWN OF BARRINGTON



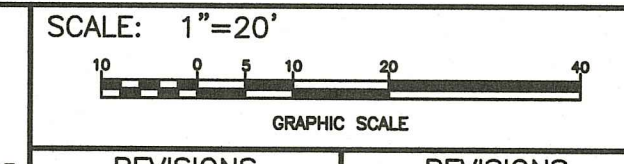
LEGEND:

	NEW IMPERVIOUS AREA
	NEW PERVIOUS AREA
	EXISTING IMPERVIOUS AREA TO BE REDEVELOPED



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
 CHECKED BY:
 DATE: AUGUST, 2023
 SHEET: 37
 OF: 76



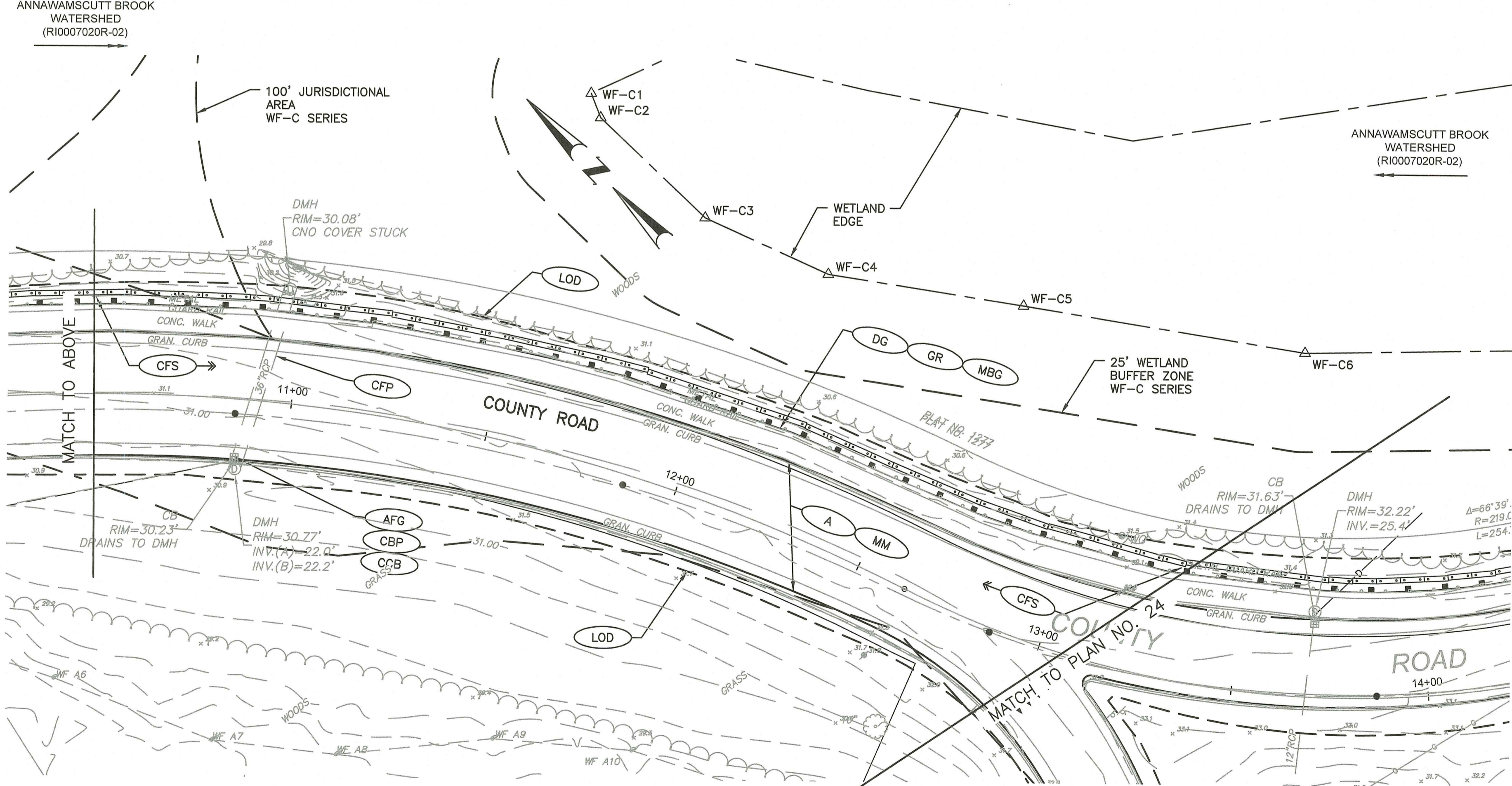
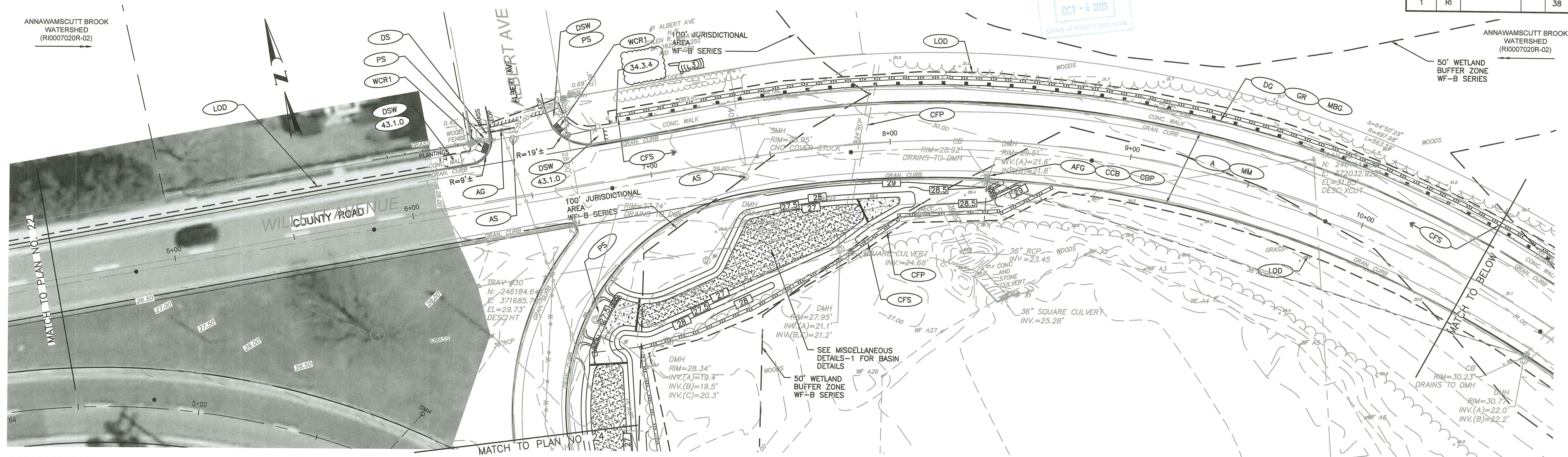
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

GENERAL PLAN No. 22

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			38	76

Environmental Management
OCT - 6 2023
Office of Water Resources



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED: OCT 13 2023 FILE #: 23-0155
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LEGEND:

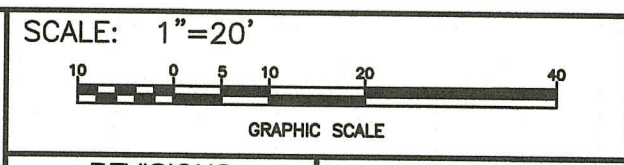
	NEW IMPERVIOUS AREA
	NEW PERVIOUS AREA
	EXISTING IMPERVIOUS AREA TO BE REDEVELOPED

ADDENDUM NO. 3



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

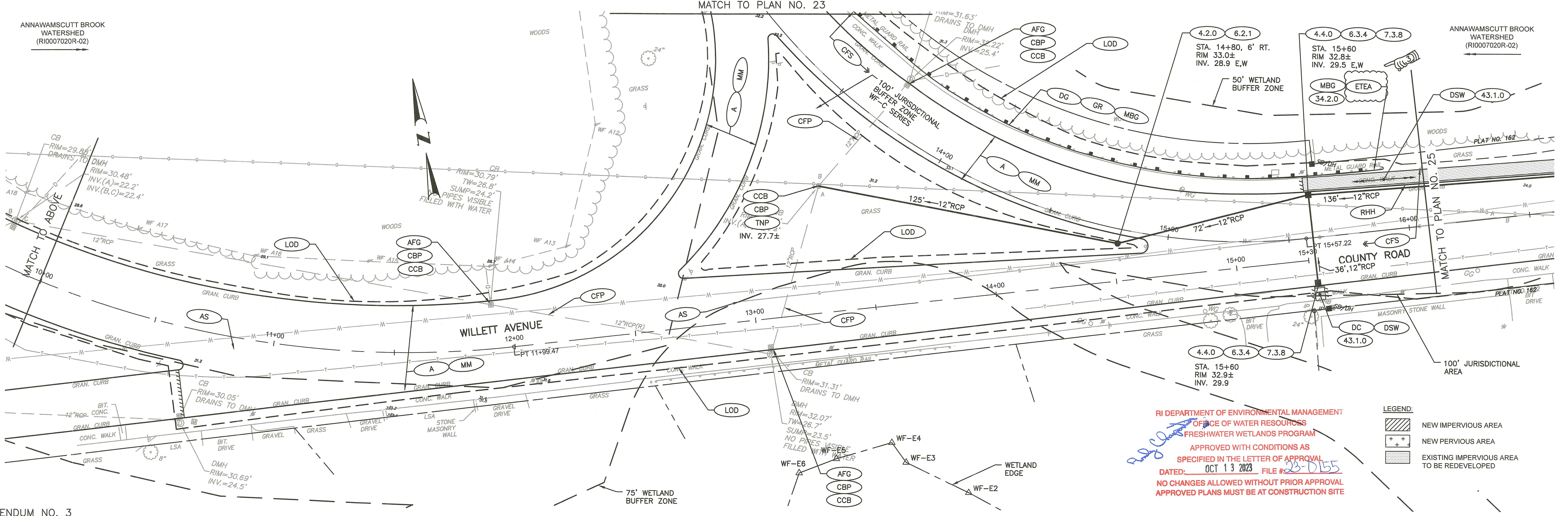
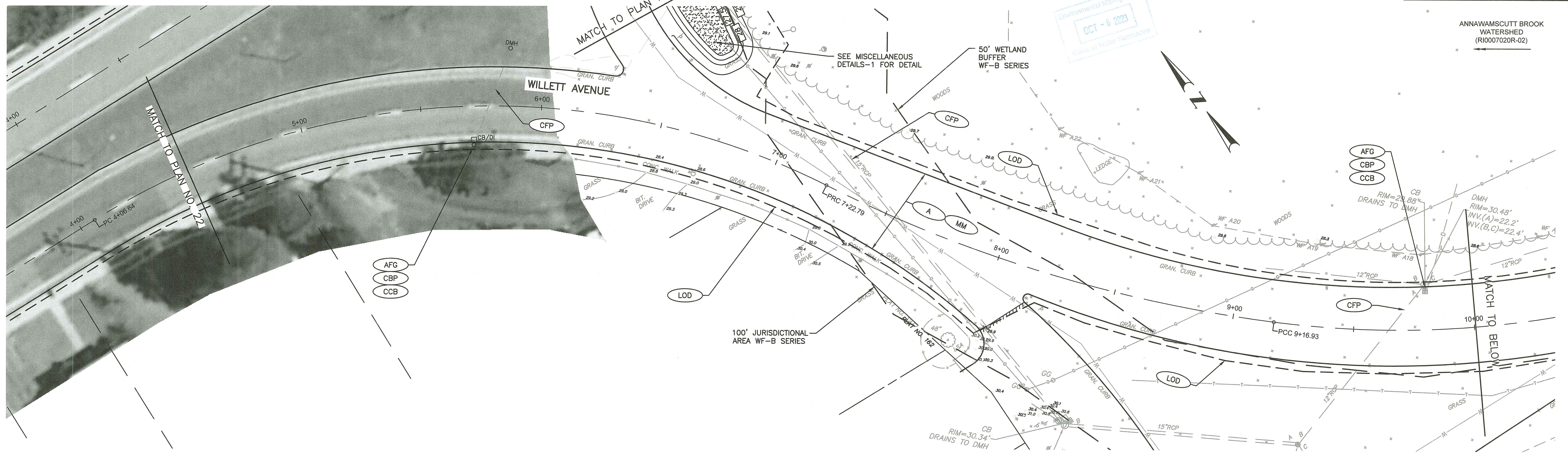
DESIGNED BY:
CHECKED BY:
DATE: AUGUST, 2023
SHEET: 38
OF: 76



REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
3	10/2/2023	RCC			

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
EAST PROVIDENCE, BARRINGTON, WARREN
RHODE ISLAND

GENERAL PLAN No. 23



ADDENDUM NO. 3



RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
CHECKED BY:
DATE: AUGUST, 2023
SHEET: 39
OF: 76

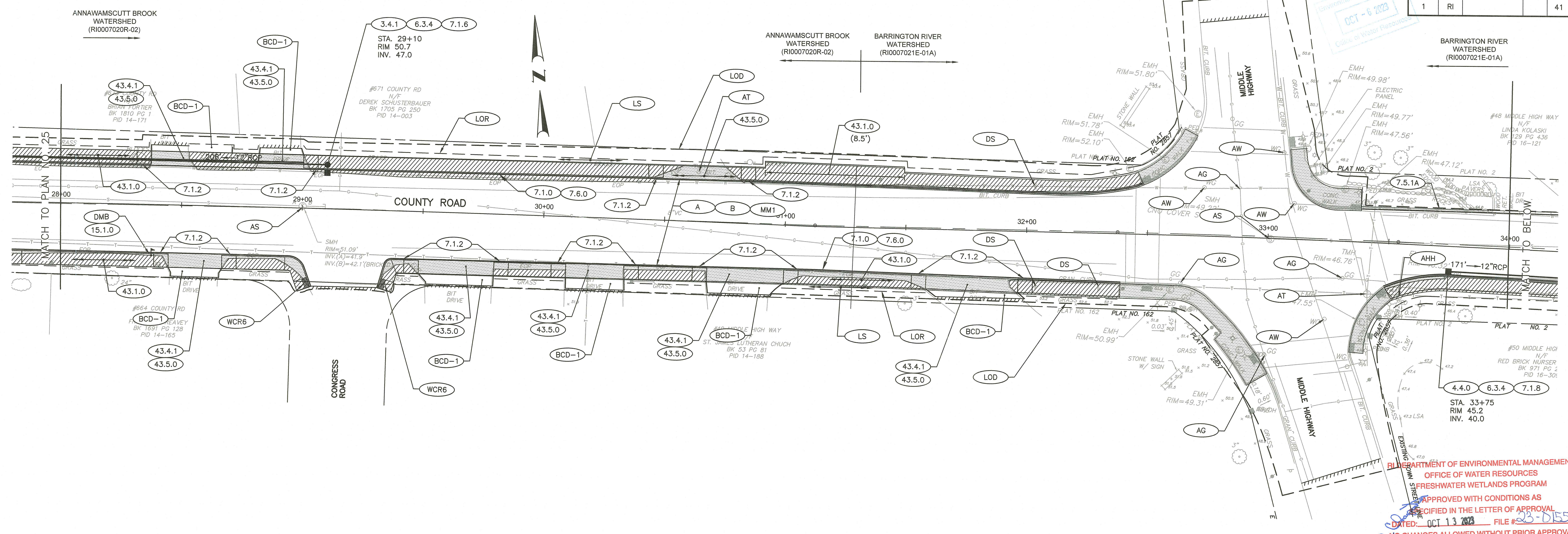
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GRAPHIC SCALE					
REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
3	10/2/2023	RCC			

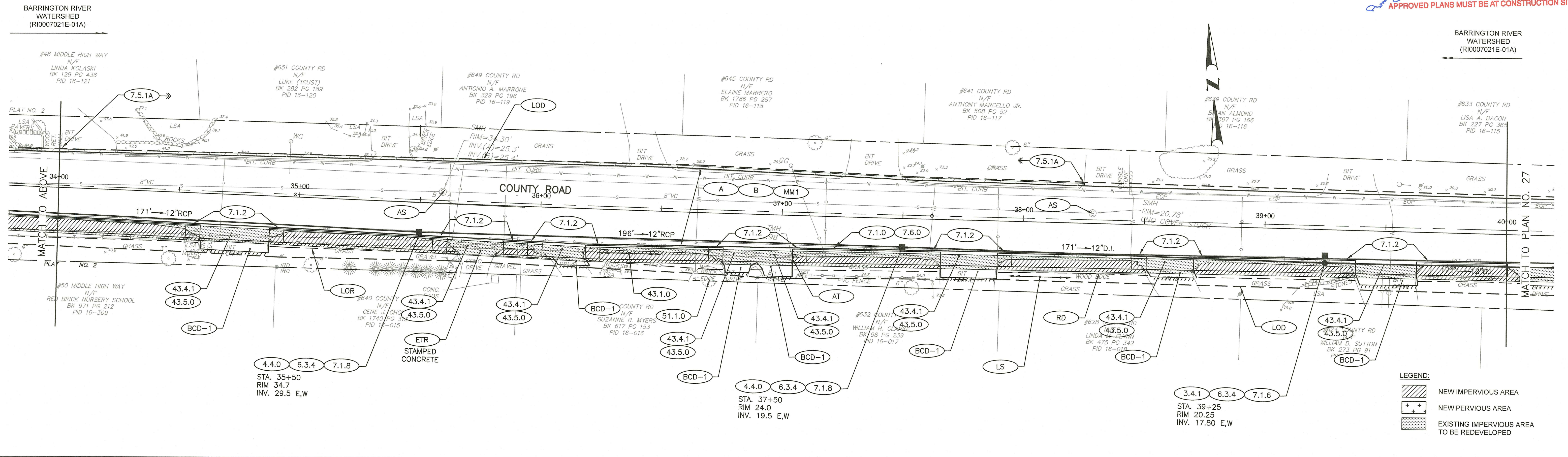
PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
EAST PROVIDENCE, BARRINGTON, WARREN
RHODE ISLAND

GENERAL PLAN No. 24

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			41	76



BUREAU OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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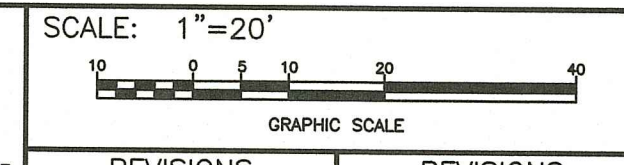
LEGEND:

	NEW IMPERVIOUS AREA
	NEW PERVIOUS AREA
	EXISTING IMPERVIOUS AREA TO BE REDEVELOPED



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
 CHECKED BY:
 DATE: AUGUST, 2023
 SHEET: 41
 OF: 76



REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

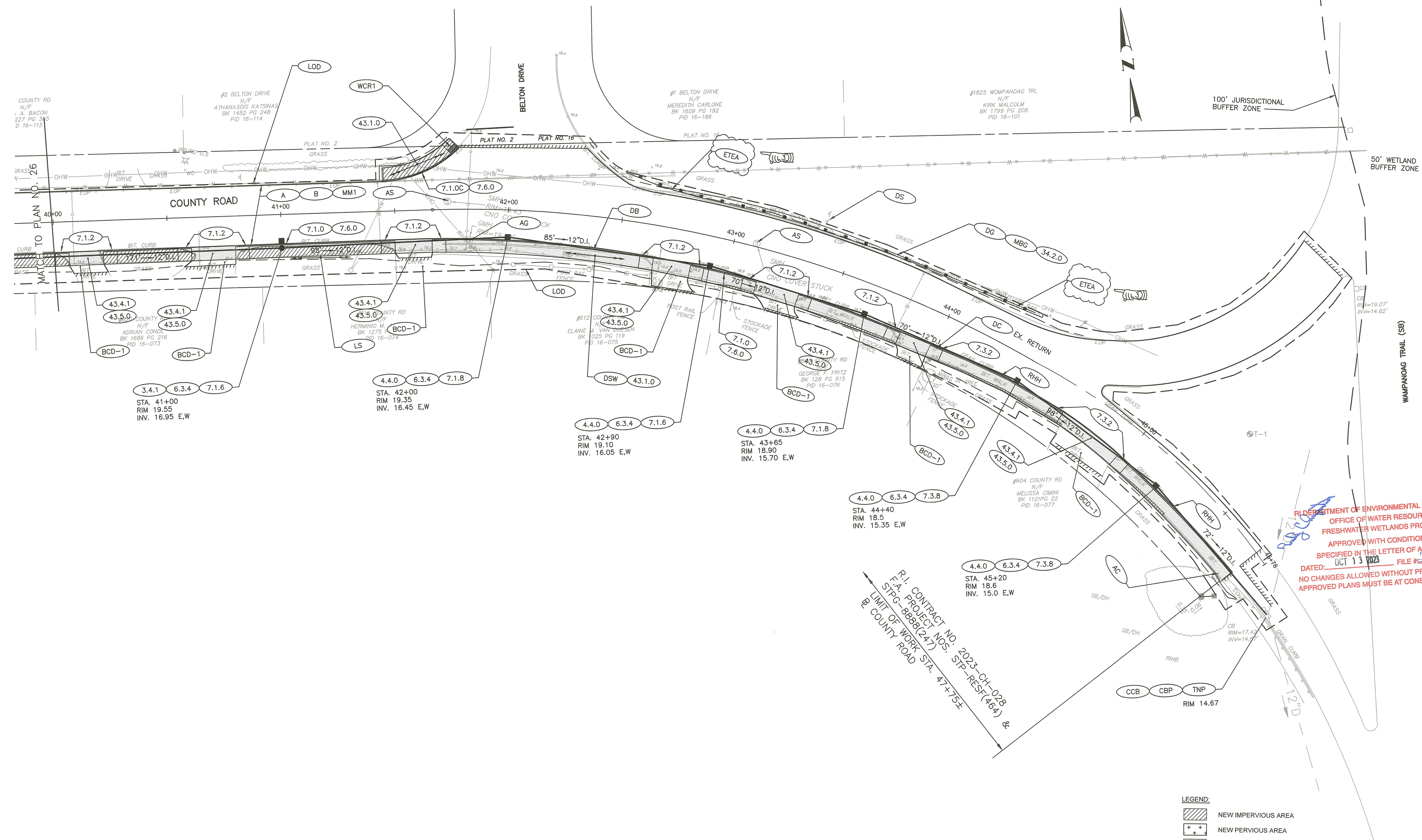
GENERAL PLAN No. 26

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI			42	76

R-1

Environmental Management
 OCT - 6 2023
 Office of Water Resources

BARRINGTON RIVER WATERSHED (RI0007021E-01A)



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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R.I. CONTRACT NO. 2023-CH-028
 F.A. PROJECT NOS. 51P-RESF(464) & 51P-888B(247)
 LIMIT OF WORK STA. 47+75E
 R. COUNTY ROAD

LEGEND:

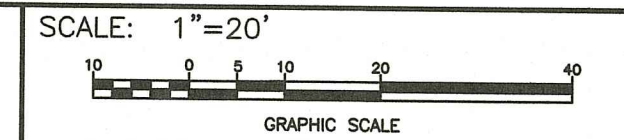
	NEW IMPERVIOUS AREA
	NEW PERVIOUS AREA
	EXISTING IMPERVIOUS AREA TO BE REDEVELOPED

ADDENDUM NO. 3



RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY:
 CHECKED BY:
 DATE: AUGUST, 2023
 SHEET: 42
 OF: 76



REVISIONS			REVISIONS		
NO.	DATE	BY	NO.	DATE	BY
3	10/2/2023	RCC			

PAVEMENT IMPROVEMENTS - BAR, EPR, WRN
 EAST PROVIDENCE, BARRINGTON, WARREN
 RHODE ISLAND

GENERAL PLAN No. 27