

LIST OF VOLUMES

VOLUME 1 - HIGHWAY PLANS AND PROFILES
 VOLUME 2 - HIGHWAY CROSS SECTIONS

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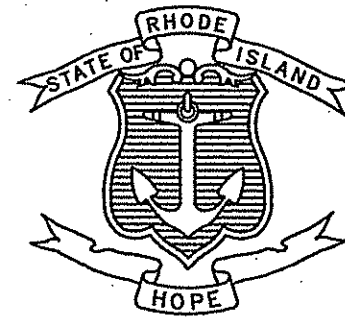
PAVEMENT STRUCTURE

FULL-DEPTH RECONSTRUCTION
 2" CLASS 12.5
 6" CLASS 19
 12" GRAVEL BORROW SUBBASE COURSE

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, 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.

STATE OF RHODE ISLAND



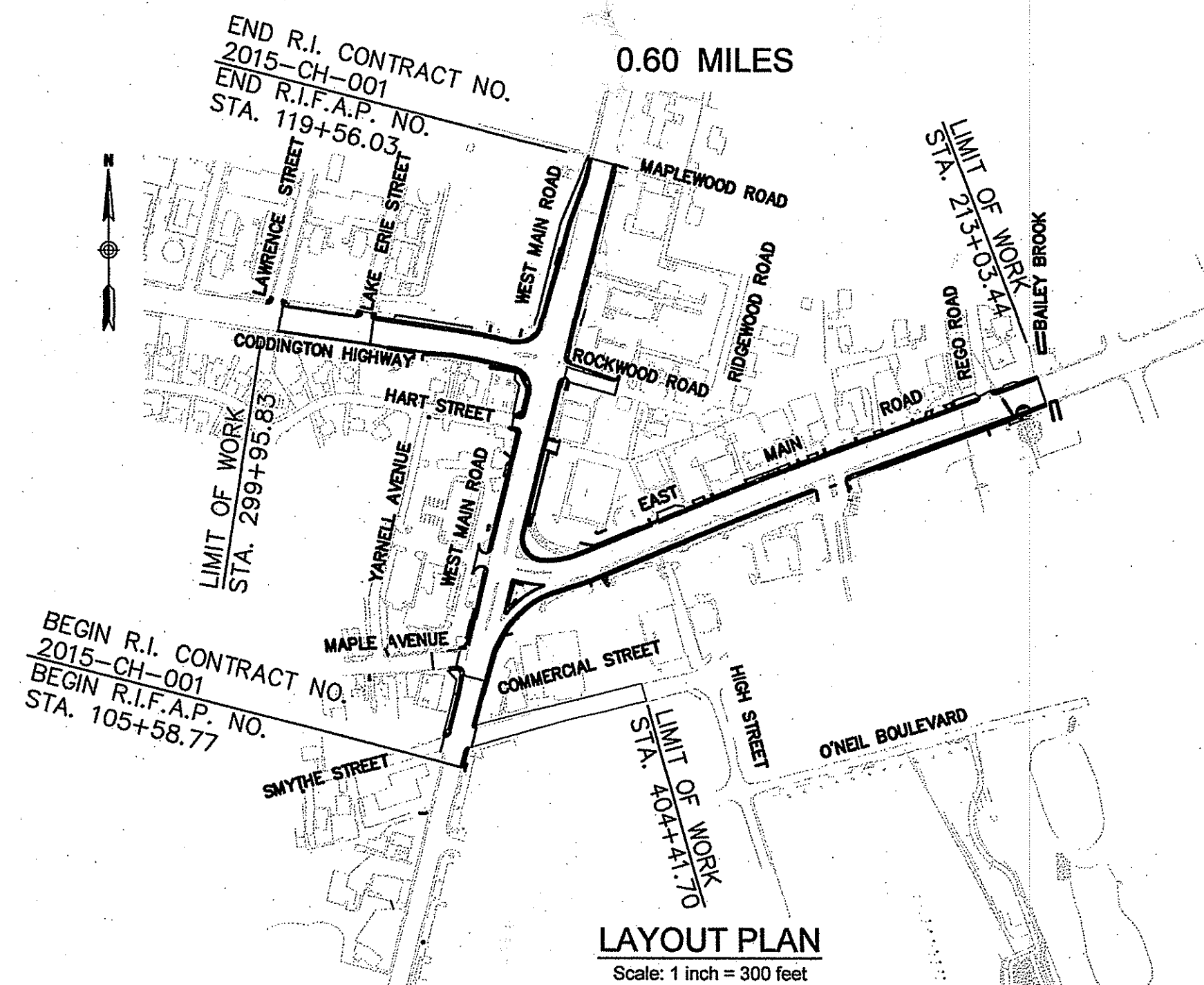
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY RECONSTRUCTION OF TWO MILE CORNER (ROUTES 138/114) VOLUME 1

EAST MAIN ROAD FROM WEST MAIN ROAD TO BAILEY BROOK
 WEST MAIN ROAD FROM SMYTHE STREET TO MAPLEWOOD ROAD

TOWN OF MIDDLETOWN
 COUNTY OF NEWPORT

R.I. CONTRACT NO. 2015-CH-001 F.A. PROJECT NO.

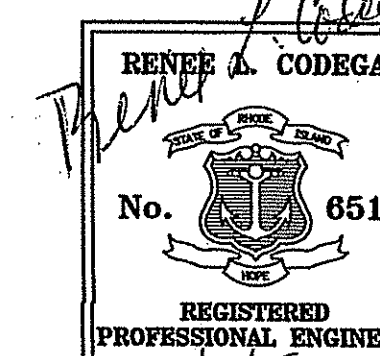
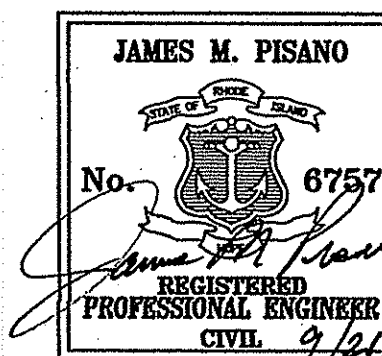
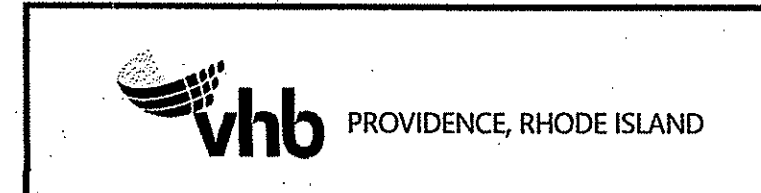


LAYOUT PLAN
 Scale: 1 inch = 300 feet

SCALES OF DRAWINGS

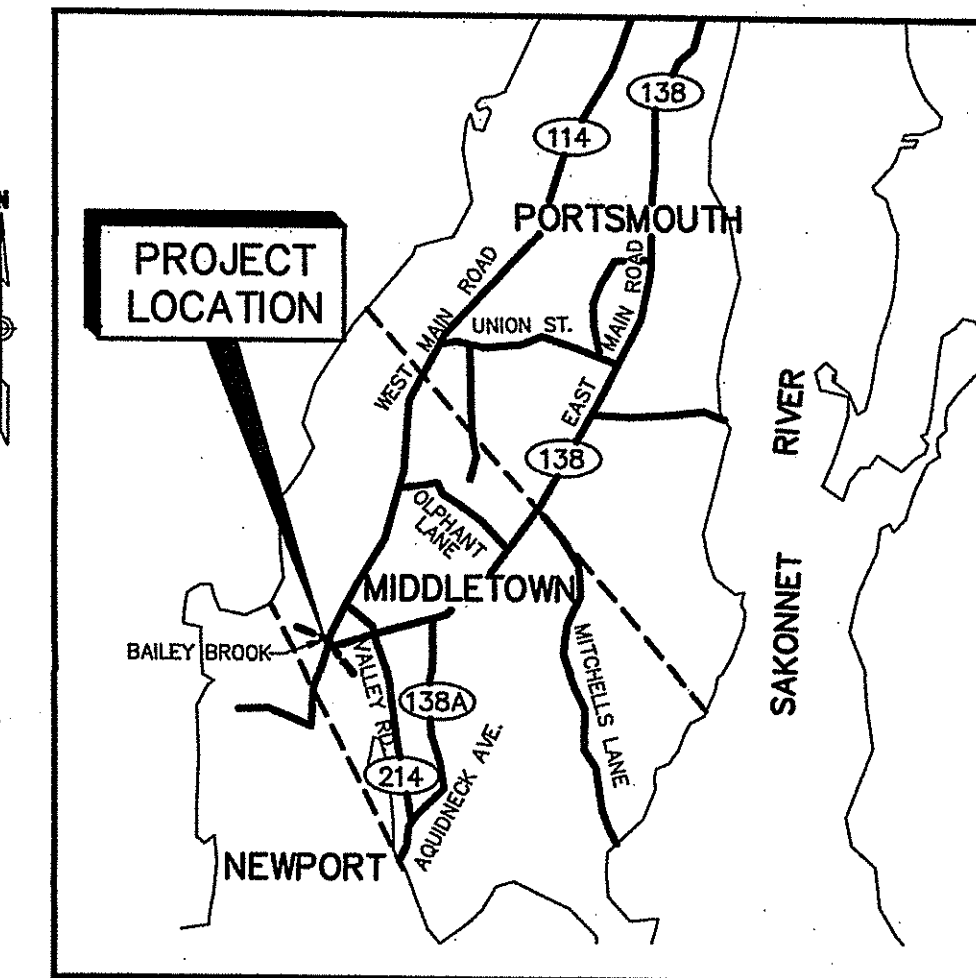
Plans	1 inch = 20 feet
Profiles	1 inch = 20 feet Horizontal
Profiles	1 inch = 4 feet Vertical
Cross Sections	1 inch = 4 feet Horizontal
Cross Sections	1 inch = 4 feet Vertical

BASE OF LEVELS
 NGVD 29
 NAD 83 (APPROXIMATELY EPOCH 1986)



Contract Number _____
 Number of Sheet 1
 Total Sheets 76

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	RI		2015	1	76



LOCATION MAP
 SCALE: 1" = 1/2 MILE

DESIGN DESIGNATION

WEST MAIN ROAD

2009 AADT	32,200 V.P.D.
2030 AADT	35,000 V.P.D.
D	51%
K	8.0%
T	2.5%
2009 DDHV	2,580 V.P.H.
2030 DHV	2,800 V.P.H.
DESIGN SPEED	40 M.P.H.

EAST MAIN ROAD

2009 AADT	22,700 V.P.D.
2030 AADT	27,500 V.P.D.
D	52%
K	8.0%
T	1.8%
2009 DDHV	1,980 V.P.H.
2030 DHV	2,200 V.P.H.
DESIGN SPEED	40 M.P.H.

HURRICANE EVACUATION ROUTE

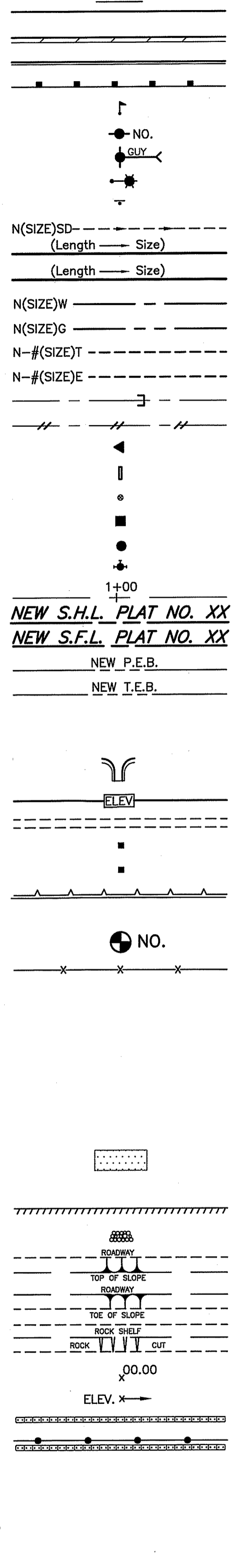
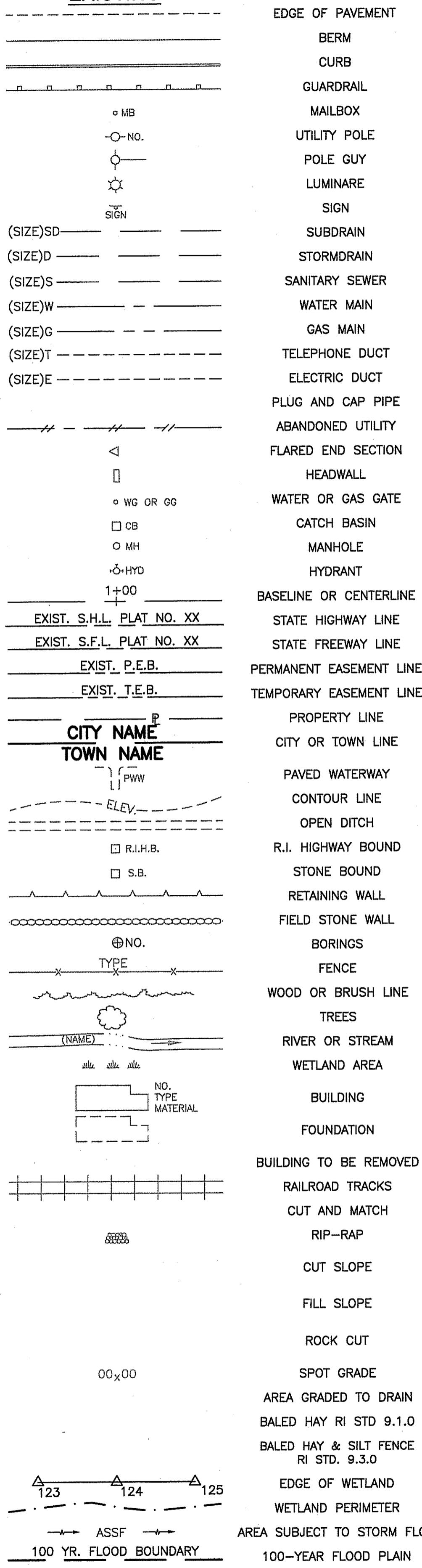
This project includes work on a designated Hurricane Evacuation and Diversionary Route as follows:
 West Main Road and East Main Road.
 Intersections of West Main Road and East Main Road and West Main Road and Coddington Highway.
 Refer to Note 18 on Sheet 3.

PERMIT MODIFICATION REVISED PS&E SEPTEMBER 2015

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	DATE
DEPUTY CHIEF ENGINEER	DATE
APPROVED	DATE
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	DATE
STATE OF WATER RESOURCES	DATE
COASTAL ZONE MANAGEMENT PROGRAM	DATE
CHIEF ENGINEER	DATE
APPROVED	DATE
NOV 2 2015	FILE # 13-0033
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL	
REVISIONS MUST BE AT CONSTRUCTION SITE	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
DIVISION ADMINISTRATOR	DATE

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
7.1.1	3'-0" PRECAST CONCRETE TRANSITION CURB	34.3.2	TERMINAL END SECTION (SINGLE FACE)
7.1.2	6'-0" PRECAST CONCRETE TRANSITION CURB	34.3.3	ANCHORAGE DETAILS APPROACH END SECTION
7.1.4	PRECAST 2'-0" RADIUS CORNER	34.3.4	ANCHORAGE DETAILS TRAILING END SECTION
7.1.5	PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)	34.4.0	STEEL BACKED TIMBER GUARDRAIL
7.1.6	PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)	34.4.1	STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1
7.1.7	PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)	40.1.0	DOUBLE-FACED PRECAST MEDIAN BARRIER
7.1.8	PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)	40.2.0	SINGLE-FACED PRECAST MEDIAN BARRIER
7.2.0S	PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)	40.2.1	SINGLE-FACED PRECAST MEDIAN BARRIER
7.2.0C	PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)	40.3.0	PRECAST MEDIAN BARRIER TRANSITION UNIT
7.2.1	PRECAST CONCRETE SLOPED FACE TRANSITION CURB	40.5.0	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL
7.2.2	PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SLOPED FACE)	43.1.0	CEMENT CONCRETE SIDEWALK
7.3.0S	GRANITE CURB (STRAIGHT)	43.2.0	BITUMINOUS CONCRETE SIDEWALK
7.3.0C	GRANITE CURB (CIRCULAR)	43.3.0	WHEELCHAIR RAMP
7.3.1	3'-0" GRANITE TRANSITION CURB	43.3.1	WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
7.3.2	6'-0" GRANITE TRANSITION CURB	43.4.0	DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB
7.3.3	GRANITE WHEELCHAIR RAMP TRANSITION CURB	43.4.1	DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB
7.3.4	GRANITE 2'-0" RADIUS CORNER	43.5.0	CEMENT CONCRETE DRIVEWAYS
7.3.5	GRANITE INLET STONE (FOR SQUARE CATCH BASIN)	48.1.0	DETECTABLE WARNING SYSTEM
7.3.6	GRANITE INLET STONE (FOR ROUND CATCH BASIN)	51.1.0	TREE PROTECTION DEVICE
7.3.7	GRANITE APRON STONE (FOR SQUARE CATCH BASIN)	51.1.1	DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
7.3.8	GRANITE APRON STONE (FOR ROUND CATCH BASIN)	51.2.0	SHRUB PROTECTION DEVICE
7.4.0	GRANITE SLOPED FACE CURB	51.3.0	TREE WELL
7.4.1	GRANITE SLOPED FACE TRANSITION CURB	51.4.0	TREE WALL

AB	ADJUST CATCH BASIN TO GRADE	NFH	NEW FIRE HYDRANT WITH GATE VALVE
ABM	ADJUST CATCH BASIN TO MANHOLE	NIC	NOT IN THIS CONSTRUCTION CONTRACT
AC	ADJUST CURB STOP TO GRADE	NWB	FURNISH AND INSTALL NEW WATER GATE VALVE BOX
AD	ADJUST DRAINAGE MANHOLE TO GRADE	NWVB	FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX
AE	ADJUST ELECTRIC MANHOLE TO GRADE	NWCB	FURNISH AND INSTALL NEW WATER CURB STOP BOX
AFC	ADJUST FRAME AND COVER TO GRADE	NWSB	FURNISH AND INSTALL NEW WATER CURB STOP AND BOX
AFG	ADJUST FRAME AND GRATE TO GRADE	PCD	PERMANENT CHECK DAM
AG	ADJUST GAS GATE BOX TO GRADE	PS	4" PLANTABLE SOIL AND SEED
AHH	ADJUST HANDHOLE TO GRADE	RCB	RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET
AS	ADJUST SANITARY SEWER MANHOLE TO GRADE	RCM	R.I.D.O.T. COMMUNICATIONS MANHOLE
AT	ADJUST TELEPHONE MANHOLE TO GRADE	RHH	REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)
AW	ADJUST WATER GATE BOX TO GRADE	RLP	RELOCATE LAMP POST
BCD	BITUMINOUS CONCRETE DRIVEWAY	RMB	RELOCATE MAILBOX (BY OTHERS)
BPS	BUILD NEW STRUCTURE OVER EXISTING PIPE	RPM	REMOVE PAVEMENT MARKINGS
CCB	CLEAN CATCH BASIN	RRP	RIP-RAP PAD (SEE DETAIL)
CCP	CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)	RRS	REMOVE AND RELOCATE SIGN
CFP	CLEAN AND FLUSH PIPE	RUP	RELOCATE UTILITY POLE (BY OTHERS)
CG	CLEARING AND GRUBBING	SB	STONE BAFFLE
CMH	CLEAN MANHOLE	SBAE	STEEL BEAM BRIDGE CONNECTION APPROACH END (W/O NESTED RAIL)
CP (DEPTH)	COLD PLANE	SBTE	STEEL BEAM BRIDGE CONNECTION TRAILING END (W/NESTED RAIL)
CPP	CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)	SD-	STRUCTURAL DISPOSITION - SEE CS PAGES OF SPECIFICATION
DB	REMOVE AND DISPOSE BITUMINOUS CURB	SF	REMOVE AND STOCKPILE FENCE
DC	REMOVE AND DISPOSE CONCRETE CURB	SGA	SPECIAL GRADED AGGREGATE
DCB	REMOVE AND DISPOSE CATCH BASIN	SGC	REMOVE AND STOCKPILE GRANITE CURB
DDI	REMOVE AND DISPOSE DROP INLET	SGR	REMOVE AND STOCKPILE GUARDRAIL
DF	REMOVE AND DISPOSE FENCE	SH	REMOVE AND STOCKPILE HYDRANT
DFC	REMOVE AND DISPOSE FRAME AND COVER	SS	REMOVE AND STOCKPILE SIGN
DFE	REMOVE AND DISPOSE FLARED END SECTION	STS	REMOVE AND STOCKPILE TRAFFIC SIGNAL SYSTEM
DFG	REMOVE AND DISPOSE FRAME AND GRATE	TB	CONCRETE THRUST BLOCK
DFH	REMOVE AND DISPOSE FIRE HYDRANT	TEP	TIE EXISTING PIPE INTO NEW STRUCTURE
DFP	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	TNP	TIE NEW PIPE INTO EXISTING STRUCTURE
DG	REMOVE AND DISPOSE GUARDRAIL	TBT	THREE BEAM TRANSITION
DH	REMOVE AND DISPOSE HEADWALL	TBBC	THREE BEAM BRIDGE CONNECTION
DHB	REMOVE AND DISPOSE HIGHWAY BOUND	TT	TREE TRIMMING
DHH	REMOVE AND DISPOSE HANDHOLE	WCM	4" WOOD CHIP MULCH
DL	REMOVE AND DISPOSE LIGHT AND FOUNDATION	4DY	4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
DMB	REMOVE AND DISPOSE MEDIAN BARRIER	6W	6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
DMH	REMOVE AND DISPOSE MANHOLE	12W	12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
DMM	REMOVE AND DISPOSE MEDIAN MARKER	6WT	6" PREFORMED PATTERNED MARKING (HIGH PERFORMANCE TAPE)
DOW	REMOVE AND DISPOSE OBSERVATION WELL	4Y	4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
DP	REMOVE AND DISPOSE PIPE	6Y	6" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
DPB	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE	P.G.L.	PROFILE GRADE LINE
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		

NOV 2 2015
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

REVISIONS		
NO.	DATE	BY
1	6/07	TRB

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION OF TWO MILE CORNER (ROUTES 138/114)
 MIDDLETOWN, RHODE ISLAND

STANDARD PLAN SYMBOLS & STANDARD LEGEND

CHECKED BY _____ DATE _____ SCALE _____



LANDSCAPE NOTES:

1. ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
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 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 WITH SECTION M18 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.

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. THE TRAFFIC CONTROLLER SHALL BE ORIENTED SO THAT THE CABINET DOOR IS FACING THE SIDEWALK, UNLESS OTHERWISE STATED ON PLANS.
5. 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.
6. 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.
7. 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.
8. FINAL PLACEMENT OF SIGNAL HEADS, DETECTORS, STOP LINES AND CROSSWALKS TO BE DETERMINED BY THE ENGINEER IN THE FIELD DURING CONSTRUCTION ACCORDING TO OBSERVED INTERSECTION CHARACTERISTICS BY THE ENGINEER.
9. 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.
10. ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
11. 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.
12. ACCESS TO PEDESTRIAN PUSHBUTTONS SHALL MEET ADA REQUIREMENTS. ALL PEDESTRIAN PUSHBUTTONS SHALL BE ADA COMPLIANT WITH A 2" DIAMETER PRESSURE ACTIVATED (NON-MOVING) BUTTON. SIGNS INSTALLED AT PROPOSED PEDESTRIAN PUSHBUTTONS SHALL BE MUTCD 2003 CODE R10-3B (LEFT OR RIGHT) AND SHALL BE INSTALLED SO THAT IT IS CLEARLY INDICATED WHICH CROSSING IS ASSIGNED TO EACH BUTTON.
13. ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
14. ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
15. TRAFFIC SIGNAL CONTROLLERS SHALL BE WIRED SO THAT ANY FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
16. 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. TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD-PLANED OR NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT.

OCT - 9 2015
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF WATER RESOURCES
 R.I. WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS STATED IN THE LETTER OF APPROVAL
 NOV 2 2015 FILE # B-0033
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION OF
 TWO MILE CORNER
 (ROUTES 138/114)
 MIDDLETOWN, RHODE ISLAND

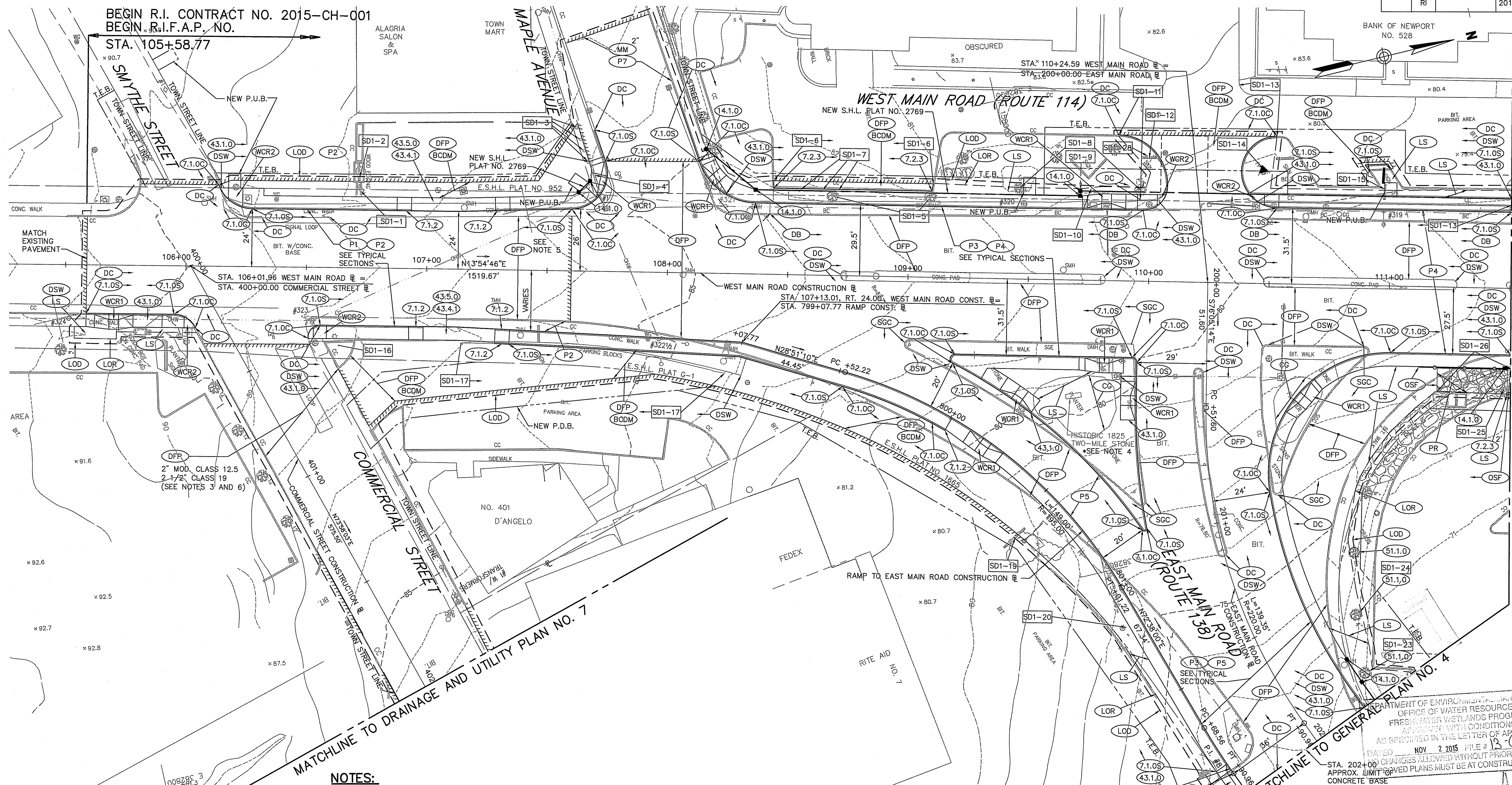
STANDARD NOTES - 2

CHECKED BY _____ DATE _____ SCALE _____



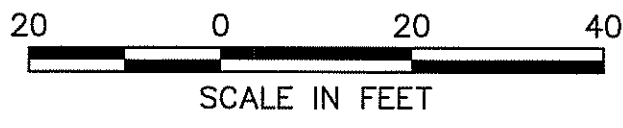
BEGIN R.I. CONTRACT NO. 2015-CH-001
 BEGIN R.I.F.A.P. NO.

STA. 105+58.77



NOTES:

1. FOR LIMIT OF DISTURBANCE SEE DRAINAGE & UTILITY PLANS.
2. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS/WHEELCHAIR RAMPS TO HAVE A MINIMUM 4'x4' LEVEL LANDING AREA AT PEDESTRIAN PUSH BUTTON LOCATIONS.
3. THE CONTRACTOR SHALL EXCAVATE AS NECESSARY FOLLOWING REMOVAL OF FLEXIBLE PAVEMENT TO MAINTAIN THE EXISTING PROFILE GRADE WITH THE PROPOSED PAVEMENT STRUCTURE.
4. THE CONTRACTOR SHALL REMOVE AND RELOCATE TWO MILE CORNER HISTORIC MARKER. ALL WORK SHALL BE DONE IN ACCORDANCE WITH AND PAID FOR UNDER ITEM 201.9903 REMOVE, STOCKPILE AND RELOCATE HISTORIC MARKER.
5. DISPOSE FLEXIBLE PAVEMENT TO THE EXISTING CONCRETE BASE. CONCRETE BASE SHALL REMAIN. A LEVELING COURSE SHALL BE PLACED, FOLLOWED BY THE REQUIRED DEPTH OF SURFACE COURSE.
6. MODIFIED CLASS 12.5 AND CLASS 19 HMA SHALL INCLUDE PAY ADJUSTMENTS.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESH WATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED NOV 2 2015 FILE # 13-0033
 STA. 202+00 CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROX. LIMIT OF WORK PLANS MUST BE AT CONSTRUCTION SITE
 CONCRETE BASE

REVISIONS		
NO.	DATE	BY

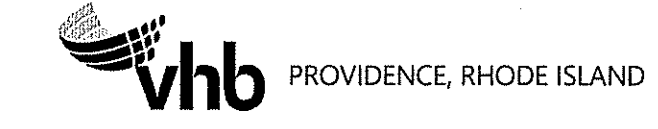
RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION OF
 TWO MILE CORNER
 (ROUTES 138/114)

MIDDLETOWN, RHODE ISLAND

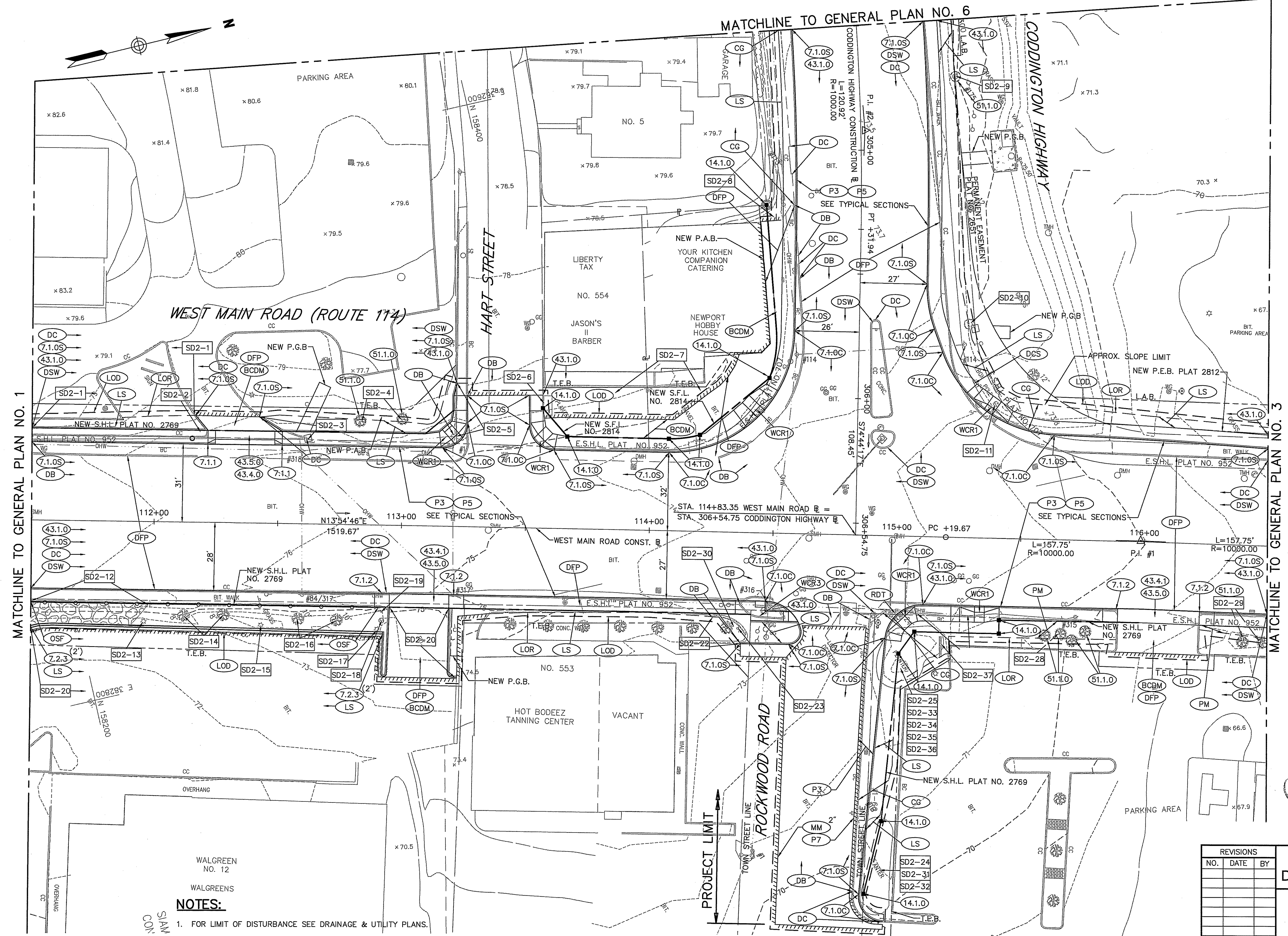
GENERAL PLAN NO. 1

CHECKED BY _____ DATE _____ SCALE _____



MATCHLINE TO GENERAL PLAN NO. 2

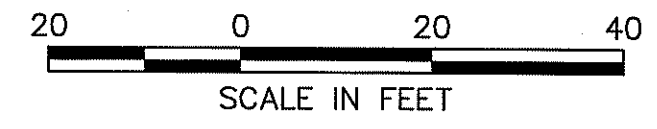
MATCHLINE TO GENERAL PLAN NO. 4



MATCHLINE TO GENERAL PLAN NO. 1

MATCHLINE TO GENERAL PLAN NO. 3

- NOTES:**
- FOR LIMIT OF DISTURBANCE SEE DRAINAGE & UTILITY PLANS.
 - CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS/WHEELCHAIR RAMPS TO HAVE A MINIMUM 4'x4' LEVEL LANDING AREA AT PEDESTRIAN PUSH BUTTON LOCATIONS.
 - TREE REMOVAL SHALL BE PAID FOR AS PART OF CLEARING & GRUBBING.
 - MODIFIED CLASS 12.5 AND CLASS 19 HMA SHALL INCLUDE PAY ADJUSTMENTS.

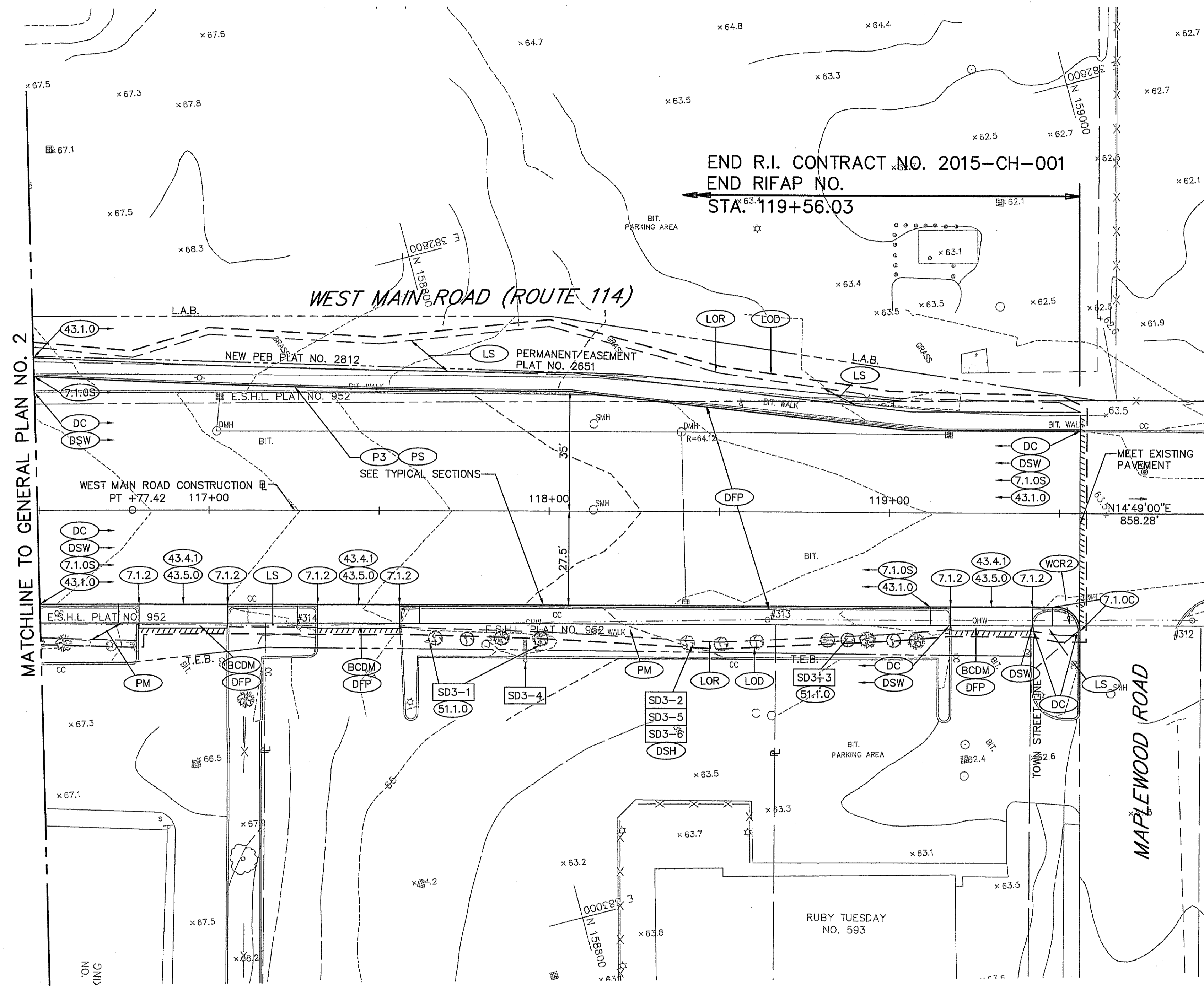
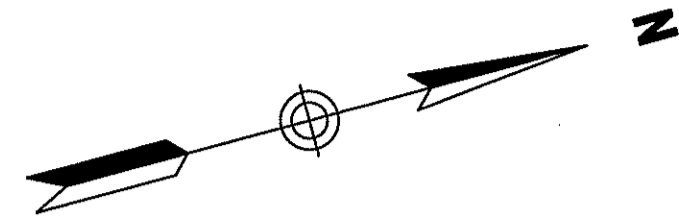


DEPARTMENT OF TRANSPORTATION
 OFFICE OF PROJECT MANAGEMENT
 PROJECT CHECKLIST
 APPROVED IN THE LETTER OF APPROVAL
 DATED NOV 2 2015 FILE # 13-0033
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 RECONSTRUCTION OF
 TWO MILE CORNER
 (ROUTES 138/114)
 MIDDLETOWN, RHODE ISLAND
 GENERAL PLAN NO. 2
 CHECKED BY _____ DATE _____ SCALE _____





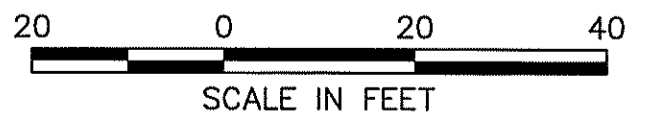
END R.I. CONTRACT NO. 2015-CH-001
 END RIFAP NO.
 STA. 119+56.03

MATCHLINE TO GENERAL PLAN NO. 2

MAPLEWOOD ROAD

NOTES:

1. FOR LIMIT OF DISTURBANCE SEE DRAINAGE & UTILITY PLANS.
2. CONTRACTOR SHALL CONSTRUCT ALL SIDEWALKS/WHEELCHAIR RAMPS TO HAVE A MINIMUM 4'x4' LEVEL LANDING AREA AT PEDESTRIAN PUSH BUTTON LOCATIONS.
3. MODIFIED CLASS 12.5 AND CLASS 19 HMA SHALL INCLUDE PAY ADJUSTMENTS.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
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REVISIONS			RHODE ISLAND	
NO.	DATE	BY	DEPARTMENT OF TRANSPORTATION	
			RECONSTRUCTION OF	
			TWO MILE CORNER	
			(ROUTES 138/114)	
			MIDDLETOWN,	RHODE ISLAND
			GENERAL PLAN NO. 3	
			CHECKED BY _____	DATE _____
			SCALE _____	

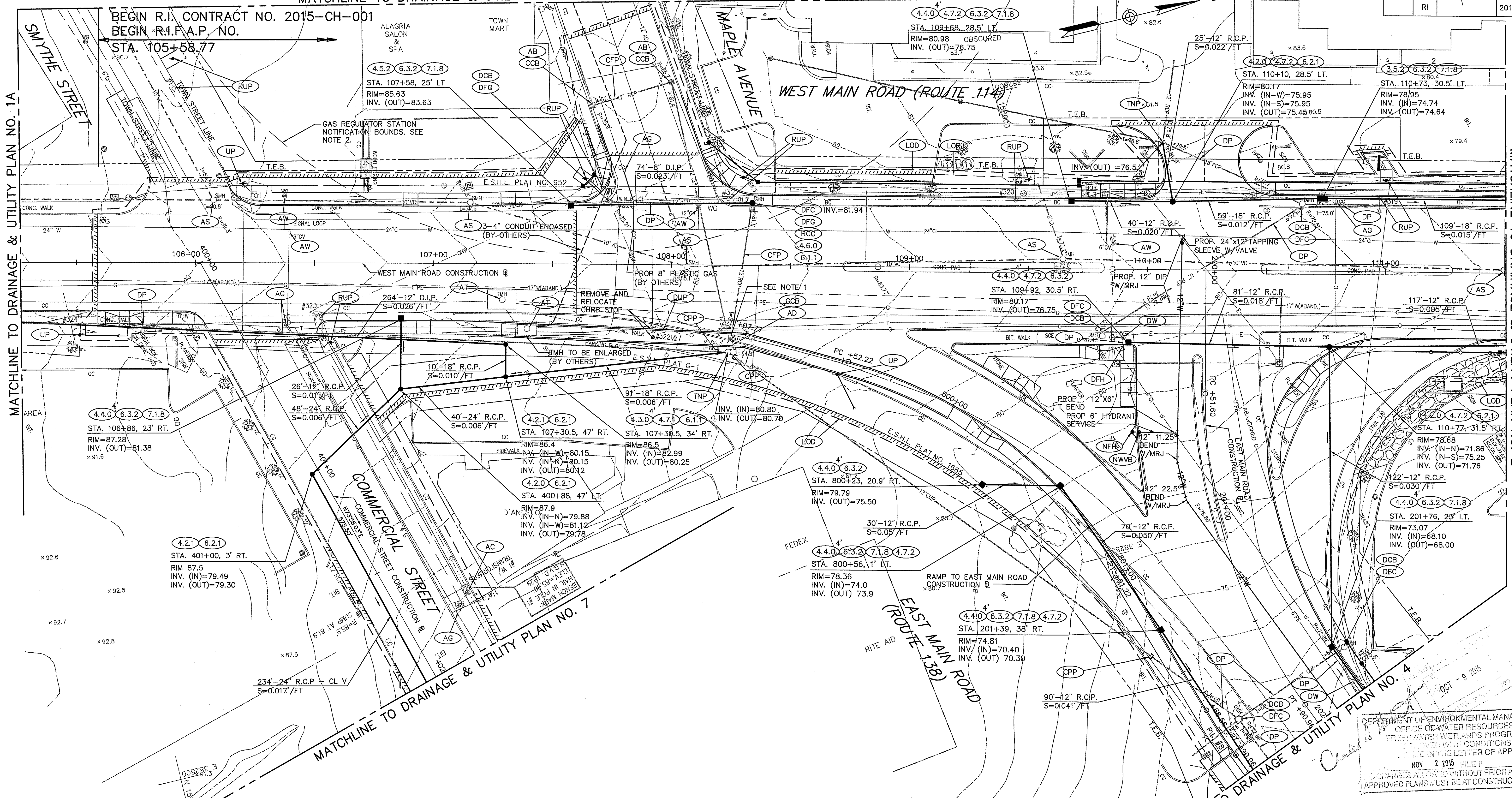


MATCHLINE TO DRAINAGE & UTILITY PLAN NO. 1A

BEGIN R.I. CONTRACT NO. 2015-CH-001
 BEGIN R.I.F.A.P. NO.
 STA. 105+58.77

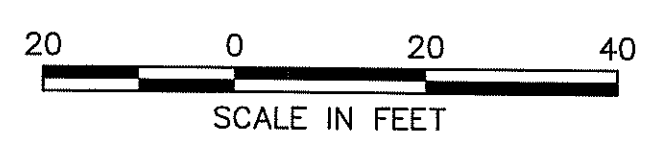
MATCHLINE TO DRAINAGE & UTILITY PLAN NO. 1A

MATCHLINE TO DRAINAGE & UTILITY PLAN NO. 2



NOTE:

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF GUTTER INLET AND FRAME AND GRATES. THIS WORK SHALL BE PAID FOR UNDER ITEMS 201.0411 REMOVE AND DISPOSE OF CATCH BASIN AND GUTTER INLET AND 201.0428 REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER.
2. A NATIONAL GRID GAS REGULATING STATION IS LOCATED ON THE NORTHEAST CORNER OF MAPLE AVENUE AND YARNELL AVENUE. NO WORK IS ALLOWED WITHIN 200 FEET OF THE STATION WITHOUT THE PRESENCE OF A NATIONAL GRID I&R INSPECTOR. CALL GEORGE MAERKLE AT (401) 595-8276 TO COORDINATE THE REQUIRED WORK.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 SEE THE LETTER OF APPROVAL
 NOV 2 2015 FILE #
 ANY CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION OF
 TWO MILE CORNER
 (ROUTES 138/114)

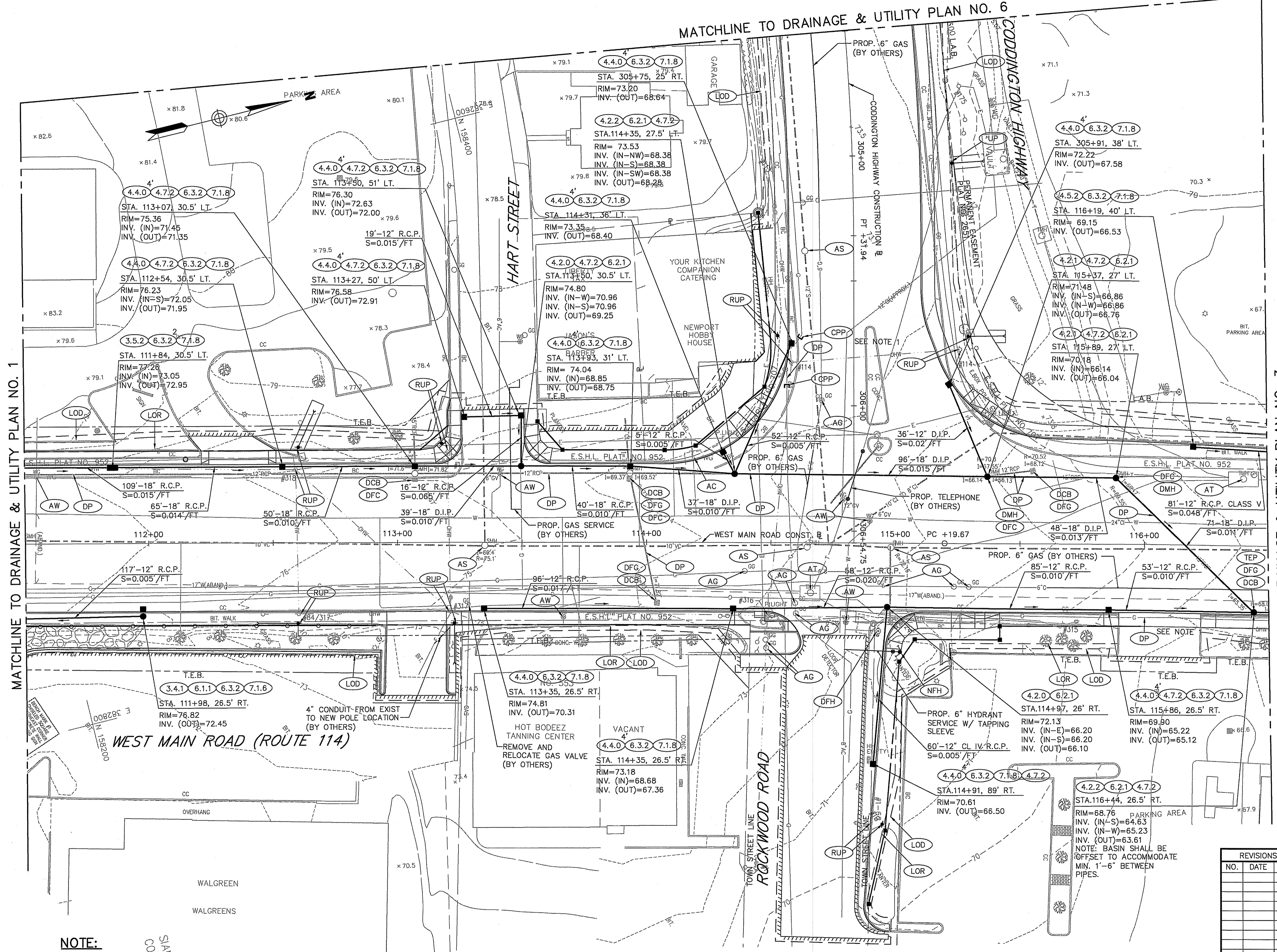
MIDDLETOWN, RHODE ISLAND

DRAINAGE & UTILITY
 PLAN NO. 1

CHECKED BY _____ DATE _____ SCALE _____



MATCHLINE TO DRAINAGE & UTILITY PLAN NO. 6



MATCHLINE TO DRAINAGE & UTILITY PLAN NO. 1

MATCHLINE TO DRAINAGE & UTILITY PLAN NO. 3

NOTE:

- NATIONAL GRID WILL PURGE THE OLD GAS MAIN OF GAS, WIPE TEST SAMPLE THE INSIDE OF THE PIPE, CAP THE ENDS, AND ABANDON IN PLACE. IF THE WIPE TEST RESULTS SHOW PCB CONTAMINATION AND A SECTION OR SECTIONS NEED TO BE REMOVED BY THE CONTRACTOR, THEN IT WILL BE THE RESPONSIBILITY OF AND COST TO THE CONTRACTOR TO HIRE CLEAN HARBORS TO PROVIDE AN OPEN TOP CONTAINER TO ACCEPT THE REMOVED SECTIONS OF PIPE, ARRANGE TO HAVE THE PIPE CLEANED TO MEET ENVIRONMENTAL REQUIREMENTS AND TO DISPOSE OF THE PIPE SECTIONS AS SCRAP METAL. NATIONAL GRID ALSO REQUIRES THAT THE OPEN PIPE ENDS OF THE ABANDONED PIPE REMAINING IN THE GROUND BE SEALED OR CAPPED.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FEDERAL WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 IN THE LETTER OF APPROVAL
 NOV 2 2015 FILE #
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 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION

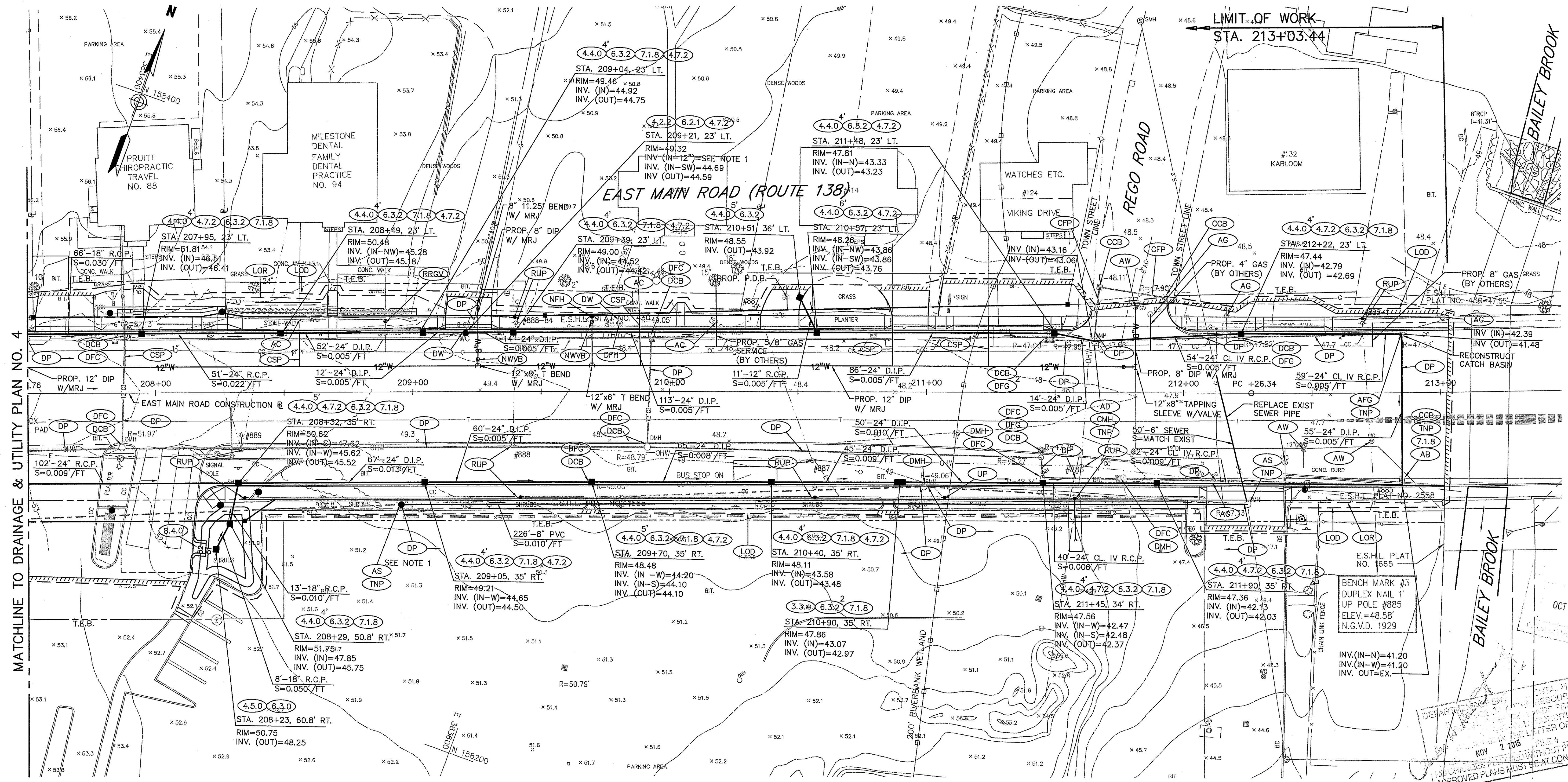
RECONSTRUCTION OF
 TWO MILE CORNER
 (ROUTES 138/114)

MIDDLETOWN, RHODE ISLAND

DRAINAGE & UTILITY
 PLAN NO. 2

CHECKED BY _____ DATE _____ SCALE _____





MATCHLINE TO DRAINAGE & UTILITY PLAN NO. 4

LIMIT OF WORK
STA. 213+03.44

NOTE:

1. THE CONTRACTOR SHALL DIG A TEST PIT TO FIND EXISTING SEWER MANHOLE.



REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

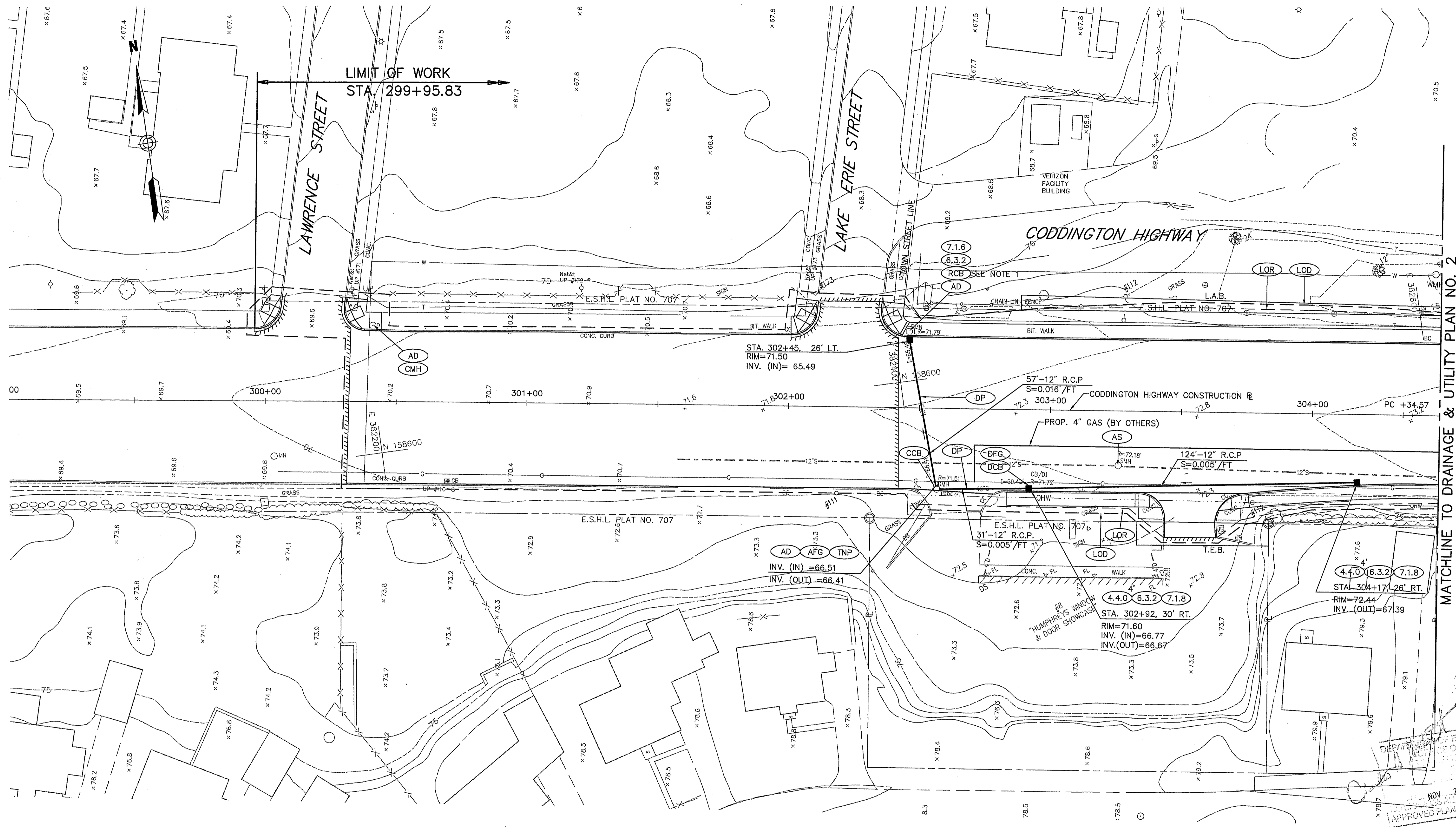
**RECONSTRUCTION OF
TWO MILE CORNER
(ROUTES 138/114)**

MIDDLETOWN, RHODE ISLAND

**DRAINAGE & UTILITY
PLAN NO. 5**

CHECKED BY _____ DATE _____ SCALE _____



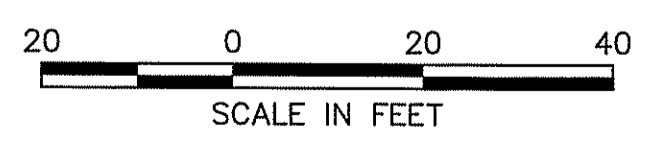


MATCHLINE TO DRAINAGE & UTILITY PLAN NO. 2

OCT - 3 2015

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 DIVISION OF WATER RESOURCES
 WETLANDS PROGRAM
 THESE PLANS AND CONDITIONS
 ARE APPROVED FOR THE LETTER OF APPROVAL
 DATE: NOV - 2 2015
 FILE #
 THESE PLANS MUST BE AT CONSTRUCTION SITE

NOTE:
 1. THE CONTRACTOR SHALL RECONSTRUCT THE CORBEL SECTION TO PROVIDE/INSTALL A GUTTER INLET TO THE EXISTING CATCH BASIN.



REVISIONS		
NO.	DATE	BY

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 RECONSTRUCTION OF
 TWO MILE CORNER
 (ROUTES 138/114)
 MIDDLETOWN, RHODE ISLAND
 DRAINAGE & UTILITY
 PLAN NO. 6
 CHECKED BY _____ DATE _____ SCALE _____

