

October 20, 2016

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF ADMINISTRATION

DIVISION OF PURCHASES BID NO. 7550997

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RHODE ISLAND CONTRACT NO.2016-CB-051

FEDERAL-AID PROJECT NO. FAP Nos: BRO-0224(003)

Newman Avenue Bridge No. 224 (57D)

Newman Ave STA 97+85 - 119+23

CITY/TOWN OF East Providence

COUNTY OF PROVIDENCE

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 1 Prospective bidders and all concerned are hereby notified of the following changes in the Plans, Specifications, Proposal and Distribution of Quantities for this contract. These changes shall be incorporated in the Plans, Specifications, Proposal and Distribution of Quantities, and shall become an integral part of the Contract Documents.

A. Plans

1. Sheet No. 6 of 48 Job Specific Legend and Notes
Delete Sheet No. 6 in its entirety and replace with revised Sheet No. 6 (R-1) attached to this Addendum No. 1. The Job Specific Legend has been revised.
2. Sheet No. 7 of 48 Typical Details No. 1
Delete Sheet No. 7 in its entirety and replace with revised Sheet No. 7 (R-1) attached to this Addendum No. 1. The Typical Section for STA 113+36.58 to STA 115+50 has been revised.
3. Sheet No. 8 of 48 Typical Details No. 2
Delete Sheet No. 8 in its entirety and replace with revised Sheet No. 8 (R-1) attached to this Addendum No. 1. The details for Section at Pole STA. 112+38 and Section at Pole STA. 114+12 have been revised.
4. Sheet No. 11 of 48 General Plan No. 3
Delete Sheet No. 11 in its entirety and replace with revised Sheet No. 11 (R-1) attached to this Addendum No. 1. The sidewalk and guardrail have been revised.
5. Sheet No. 14 of 48 Location and Grading Plan
Delete Sheet No. 14 in its entirety and replace with revised Sheet No. 14 (R-1) attached to this Addendum No. 1. The ties to the sidewalk have been revised.

6. Sheet No. 20 of 48 Maintenance and Protection of Traffic Plan No. 1
Delete Sheet No. 20 in its entirety and replace with revised Sheet No. 20 (R-1) attached to this Addendum No. 1. The limits of anchored and not anchored guardrail have been revised.
7. Sheet No. 24 of 48 Bridge General Notes 1
Delete Sheet No. 24 in its entirety and replace with revised Sheet No. 24 (R-1) attached to this Addendum No. 1. Concrete class of Temporary Barrier Cast In Place Footing and Repairs to Wingwalls have been added to Material list.
8. Sheet No. 27 of 48 General Bridge Plan
Delete Sheet No. 27 in its entirety and replace with revised Sheet No. 27 (R-1) attached to this Addendum No. 1. Approach sidewalk limits and riprap limits have been revised.
9. Sheet No. 32 of 48 West Abutment
Delete Sheet No. 32 in its entirety and replace with revised Sheet No. 32 (R-1) attached to this Addendum No. 1. The limit of the approach slab and sleeper slab have been identified; 1" closed cell foam added between approach slab and flying wingwall and approach sidewalk limits have been revised.
10. Sheet No. 33 of 48 East Abutment
Delete Sheet No. 33 in its entirety and replace with revised Sheet No. 33 (R-1) attached to this Addendum No. 1. The limit of the approach slab and sleeper slab have been identified; 1" closed cell foam added between approach slab and flying wingwall and approach sidewalk limits have been revised.
11. Sheet No. 34 of 48 Joint Details
Delete Sheet No. 34 in its entirety and replace with revised Sheet No. 34 (R-1) attached to this Addendum No. 1. Section F has been revised to show transitioning sidewalk/curb on approach slab.
12. Sheet No. 38 of 48 Sidewalk and Curb Details
Delete Sheet No. 38 in its entirety and replace with revised Sheet No. 38 (R-1) attached to this Addendum No. 1. The 6" x 18" Granite Curb on Gravel Base Detail has been deleted.
13. Sheet No. 41 of 48 End Post Details
Delete Sheet No. 41 in its entirety and replace with revised Sheet No. 41 (R-1) attached to this Addendum No. 1. Section L has been revised to show 1" closed cell foam between approach slab/sidewalk and wingwall/end post extension.
14. Sheet No. 45 of 48 Cross Sections
Delete Sheet No. 45 in its entirety and replace with revised Sheet No. 45 (R-1) attached to this Addendum No. 1. Slope and quantities have been revised.
15. Sheet No. 46 of 48 Cross Sections
Delete Sheet No. 46 in its entirety and replace with revised Sheet No. 46 (R-1) attached to this Addendum No. 1. Slope and quantities have been revised.
16. Sheet No. 47 of 48 Cross Sections
Delete Sheet No. 47 in its entirety and replace with revised Sheet No. 47 (R-1) attached to this Addendum No. 1. Slope and quantities have been revised.

B. Contract Documents

1. General Provisions - Contract Specific
 - a. Index Page
Delete Index Page CS-I in its entirety and replace with revised Index CS-I (R-1) attached to this Addendum No. 1. The index has been revised.
 - b. Page CS-9
Delete Page CS-9 in its entirety and replace with revised Page CS-9 (R-1) attached to this Addendum No. 1. General Provisions 27 and 28 have been added.
 - c. Appendix E
Insert new Appendix E attached to this Addendum No. 1. The RIDOT Natural Resources Unit Note to File ESA Informal Programmatic Consultation Northern Long-Eared Bats and Special Attention documents have been added.
 - d. Appendix F
Insert new Appendix F attached to this Addendum No. 1. The existing bridge plans have been added.
2. Specifications - Job Specific
 - a. Index Page
Add Index Page JS-ii in its entirety and replace with revised Index JS-I (R-1) attached to this Addendum No. 1. New page has been added.
 - b. Page JS-28
Delete Page JS-28 in its entirety and replace with revised Page JS-28 (R-1) and insert new Page JS-28A, attached to this Addendum No. 1. The job specific specification Newman Avenue Bridge No. 224 Bridge Structure has been revised.
 - c. Pages JS-63 and JS-64
Delete Pages JS-63 and JS-64 in their entirety and replace with revised Pages JS-63 (R-1) and JS-64 (R-1), attached to this Addendum No. 1. The job specific specification Anchored Barrier for Temporary Traffic Control has been revised.
 - d. Add Page JS-74 attached to this Addendum No. 1. The job specific specifications for Steel Beam Connection Approach End and Steel Beam Connection Trailing End have been added.
 - e. Add Pages JS-75 and JS-76 attached to this Addendum No. 1. The job specific specification for Placed Rockfill (R-6, R-7, R-8) Slope Edge has been added.

C. Distribution of Quantities

1. Index Page 1 to Index Page 2
Delete Index Page 1 to Index Page 2 in their entirety and replace with revised Index Page 1 (R-1) to Index Page 2 (R-1) attached to this Addendum No. 1. The index has been revised.
2. Page 3 and Page 4
Delete Page 3 and Page 4 in their entirety and replace with revised Page 3 (R-1), Page 3a, Page 4 (R-1) and Page 4a attached to this Addendum No. 1. Item Code 204.0100 has been revised.
3. Page 6 and 7
Delete Pages 6 and 7 in their entirety and replace with revised Page 6 (R-1), Page 6a and Page 7 (R-1) attached to this Addendum No. 1. Item Code 302.0100 has been revised.

4. Page 12
Delete Page 12 in its entirety and replace with revised Page 12 (R-1) attached to this Addendum No. 1. Item Code 819.0800 has been removed. Item Code 901.0193 has been revised.
5. Page 13
Delete Page 13 in its entirety and replace with revised Page 13 (R-1) and Page 13a attached to this Addendum No. 1. Item Code 905.0110 has been revised.
6. Page 15
Delete Page 15 in its entirety and replace with revised Page 15 (R-1) and Page 15a attached to this Addendum No. 1. Item Code 920.0040 and Item 920.0135 have been revised.
7. Page 16
Delete Page 16 in its entirety and replace with revised Page 16 (R-1) and Page 16a attached to this Addendum No. 1. Item Code 920.0200 has been revised.
8. Page 17
Delete Page 17 in its entirety and replace with revised Page 17 (R-1) attached to this Addendum No. 1. Item Code 926.9901 and Item Code 927.9901 have been revised.
9. Page 24
Delete Page 24 in its entirety and replace with revised Page 24 (R-1) attached to this Addendum No. 1. Item Code 901.0151, Item Code 901.9901, Item Code 901.9902, Item Code 916.0600, and Item Code 916.0650 have been added.
10. Page 25
Add new Page 25 attached to this Addendum No. 1. Item Code 920.9901 and Item Code 926.0121 have been added.

ADDENDUM NO. 1


10.21.16
RL Department of Transportation
Administrator, Division of Project Management

ATTACHMENTS

EXISTING FEATURES LEGEND

- CI DRAIN CURB INLET
- DMH DRAIN MANHOLE
- OHW- OVERHEAD WIRES
- COX- COX COMMUNICATION LINES
- BIT. CONC. BITUMINOUS CONCRETE
- RCP REINFORCED CONCRETE PIPE
- VCP VITRIFIED CLAY PIPE
- CD COMBINATION DRAIN
- PWW PAVED WATERWAY
-  SIGN PANEL LEGEND
- VCP VITRIFIED CLAY PIPE

JOB SPECIFIC LEGEND

-  BITUMINOUS ASPHALT
2" HOT MIX ASPHALT - MODIFIED CLASS 12.5
4" HOT MIX ASPHALT - CLASS 19
12" GRAVEL BORROW SUBBASE COURSE
-  AREA SUBJECT TO FLOODING
-  BRIDGE VERTICAL GRANITE CURB
-  COMMON BORROW
-  CORRUGATED STEEL PIPE SLEEVE
-  REMOVE AND DISPOSE GRANITE CURB
-  REMOVE AND DISPOSE MONITORING WELL
-  DRAINAGE SWALE (DRAINAGE BLEEDER)
-  EARTH EXCAVATION (WITH DEPTH INDICATED BY X)
-  GUARDRAIL END TREATMENT ENERGY ABSORBING TERMINALS
-  COMPOST FILTER SOCK
-  FLOATING TURBIDITY BARRIER
-  CATCH BASIN INLET PROTECTION
-  PLACEMENT OF MILLING BENEATH GUARDRAIL (4" DEPTH)
-  MICRO MILLING (2" DEPTH)
-  NEW UTILITY POLE (BY OTHERS)
-  PAVEMENT OVERLAY
CLEAN AND SWEEP PAVEMENT AFTER MICRO MILLING
ASPHALT EMULSION TACK COAT
2" HOT MIX ASPHALT - MODIFIED CLASS 12.5
-  STEEL BEAM GUARDRAIL APPROACH END SECTION
-  STEEL BEAM GUARDRAIL TRAILING END SECTION
-  PLACED ROCKFALL OVER 6" FS-2 BEDDING STONE OVER FILTER FABRIC FOR RIP-RAP
-  TEMPORARY TRAFFIC SIGNAL
-  GRANITE RAMP STONE
-  LOOP VEHICLE DETECTOR (STDS, 19.6.0A & 19.6.0B)
-  TURNING ARROW, RIDOT STD 20.1.0
-  6" FAST DRYING WATERBORNE PAVEMENT MARKING - WHITE
-  12" FAST DRYING WATERBORNE PAVEMENT MARKING - WHITE

GENERAL NOTES

- THE EXISTING CONDITIONS FEATURES SHOWN ON THE PLANS BETWEEN STA 109+00 AND STA 119+23 WERE PRODUCED FROM AERIAL PHOTOGRAPHY BY EASTERN TOPOGRAPHICS AND LIMITED FIELD SURVEY BY WATERMAN ENGINEERING COMPANY.
- THE EXISTING CONDITIONS FEATURES SHOWN ON THE PLANS BETWEEN STA 95+29 AND STA 109+00 WERE DEVELOPED FROM AVAILABLE PLANS. THEREFORE, CONSIDER THE LOCATION OF FEATURES WITHIN THESE STATIONS TO BE APPROXIMATE.
- FIELD CHECKING WAS PERFORMED TO VERIFY TYPES AND LOCATIONS OF CERTAIN STRUCTURES.
- THE BASELINE SHOWN ON THESE PLANS IS NOT HISTORIC.
- ALL ITEMS NOT REFERENCED FOR MODIFICATION WILL BE "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ANY DAMAGE TO EXISTING STATE OR PRIVATE PROPERTY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
- ALL TREE TRIMMING WORK REQUIRED SHALL BE PROVIDED THROUGH THE STATEWIDE ON-CALL TREE TRIMMING CONTRACT. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE RESIDENT ENGINEER.
- CONTRACTOR SHALL NOT PARK OR STORE CONSTRUCTION VEHICLES OR EQUIPMENT UNDER THE DRIPLINE OF TREES.
- PRIOR TO PAVEMENT PLACEMENT, CONTRACTOR SHALL PROVIDE CUT & MATCH LINES AS INDICATED ON THE PLAN. CUT AND MATCH LINES SHALL MATCH EXISTING PAVEMENT JOINTS AT ALL SIDE STREETS AND STATE LINE.
- FAST-DRYING WATERBORNE PAVEMENT MARKING PAINT, 8 MILS AND 16 MILS, SHALL BE PLACED IN ACCORDANCE WITH SECTION T20.03.4 OF THE STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", INCLUDING ALL ADDENDA; 8 MIL ON THE FINAL RIDING SURFACE OF ROADWAYS THAT WILL BE OPEN TO TRAFFIC AT THE COMPLETION OF EACH DAY'S PAVING OPERATION AND 16 MIL ON MILLED SURFACES OPEN TO TRAFFIC. PRIOR TO WINTER SHUTDOWN, EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED ON FINAL RIDING SURFACE OF ROADWAYS THAT WILL BE OPEN TO TRAFFIC AT THE COMPLETION OF THE CONSTRUCTION SEASON AND SHALL REMAIN IN PLACE DURING THE ENTIRE WINTER SEASON.

- FINAL EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED NO SOONER THAN TWO (2) WEEKS AFTER THE COMPLETION OF FINAL PAVING OPERATIONS BUT NO LATER THAN FOUR (4) WEEKS.
- FINAL EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED NO SOONER THAN TWO WEEKS AFTER THE COMPLETION OF FINAL PAVING OPERATIONS BUT NO LATER THAN FOUR (4) WEEKS.
 - ALL SURVEY FIELD BOOKS AND ELECTRONIC DATA SHALL BE SUBMITTED TO THE RIDOT SURVEY SECTION UPON COMPLETION OF THE CONSTRUCTION WORK. FIELD BOOKS SHALL INCLUDE A LISTING OF ALL RI HIGHWAY BOUNDS THAT WERE SET WITH STATIONS, OFFSETS, COORDINATES AND DATE SET CERTIFIED BY CONTRACTOR'S PROFESSIONAL LAND SURVEYOR.
 - RIDOT HAS A PAVING PROJECT AT THE INTERSECTION OF PAWTUCKET AVENUE AND NEWMAN AVENUE WHICH MAY COINCIDE WITH THIS PROJECT. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ADJACENT PROJECT IF THE PAVING PROJECT OCCURS CONCURRENTLY WITH THIS PROJECT.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

- ALL CONSTRUCTION SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO PERFORMING ANY CONSTRUCTION OPERATIONS WHICH MAY POSE A HAZARD TO TRAFFIC.
- ALL MOVING OPERATIONS INCLUDING STRIPING, PLACEMENT OF DRUMS, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST EDITION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) AND ALL REVISIONS.
- FLAGPERSONS SHALL BE USED TO CONTROL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE WORK AREA.
- TEMPORARY CONSTRUCTION SIGNS AND BARRICADES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
- TEMPORARY CONSTRUCTION SIGNS SHALL BE PLACED SO THEY DO NOT ENCR OACH ON OPEN LANES OF TRAFFIC.
- CONSTRUCTION VEHICLES SHALL NOT ENCR OACH INTO OPEN LANES OF TRAFFIC EXCEPT WHEN ENTERING AND EXITING THE WORK ZONE. CONSTRUCTION OPERATIONS SHALL NOT ENCR OACH UPON OPEN LANES OF TRAFFIC AT ANY TIME.
- CHANNELIZING DEVICES AND ADVANCE WARNING SIGNS SHOULD BE PLACED BEYOND THE MINIMUM DISTANCES SHOWN, IF NEEDED TO MAINTAIN THEIR VISIBILITY TO MOTORISTS WHERE SIGHT DISTANCE IS RESTRICTED.
- IF THE WORK SPACE, INCLUDING ALL EQUIPMENT AND PERSONNEL IS MORE THAN 15 FEET FROM THE EDGE OF THE PAVEMENT, ADVANCE WARNING SIGNS ARE NOT REQUIRED.
- A BUFFER SPACE IS REQUIRED FOR ALL WORK ZONES.
- "ROAD WORK AHEAD" SIGNS AND "END CONSTRUCTION" SIGNS SHALL BE PLACED BEYOND THE WORK LIMITS.
- ALL SUBCONTRACTORS EMPLOYED BY THE CONTRACTOR OR RIDOT ON THIS PROJECT SHALL WORK WITHIN THE SAME PROTECTED WORK AREAS AS THE CONTRACTOR. NO SEPARATE CLOSURES WILL BE ALLOWED.
- THE TRAFFIC CONTROL DETAILS ARE ONLY INTENDED TO PROVIDE GENERAL GUIDANCE TO THE CONTRACTOR, AND DO NOT ENCOMPASS ALL CIRCUMSTANCES.
- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES
- ACCESS TO ABUTTERS SHALL BE MAINTAINED AT ALL TIMES
- REFLECTIVE DELINEATORS FOR TEMPORARY CONCRETE BARRIERS ADJACENT TO THE ONE LANE WITH ALTERNATING TRAFFIC SHALL BE: YELLOW ON THE LEFT SIDE OF APPROACHING TRAFFIC; AND WHITE ON THE RIGHT SIDE OF APPROACHING TRAFFIC.

JOB SPECIFIC DRAINAGE, UTILITY, AND EROSION CONTROL NOTES:

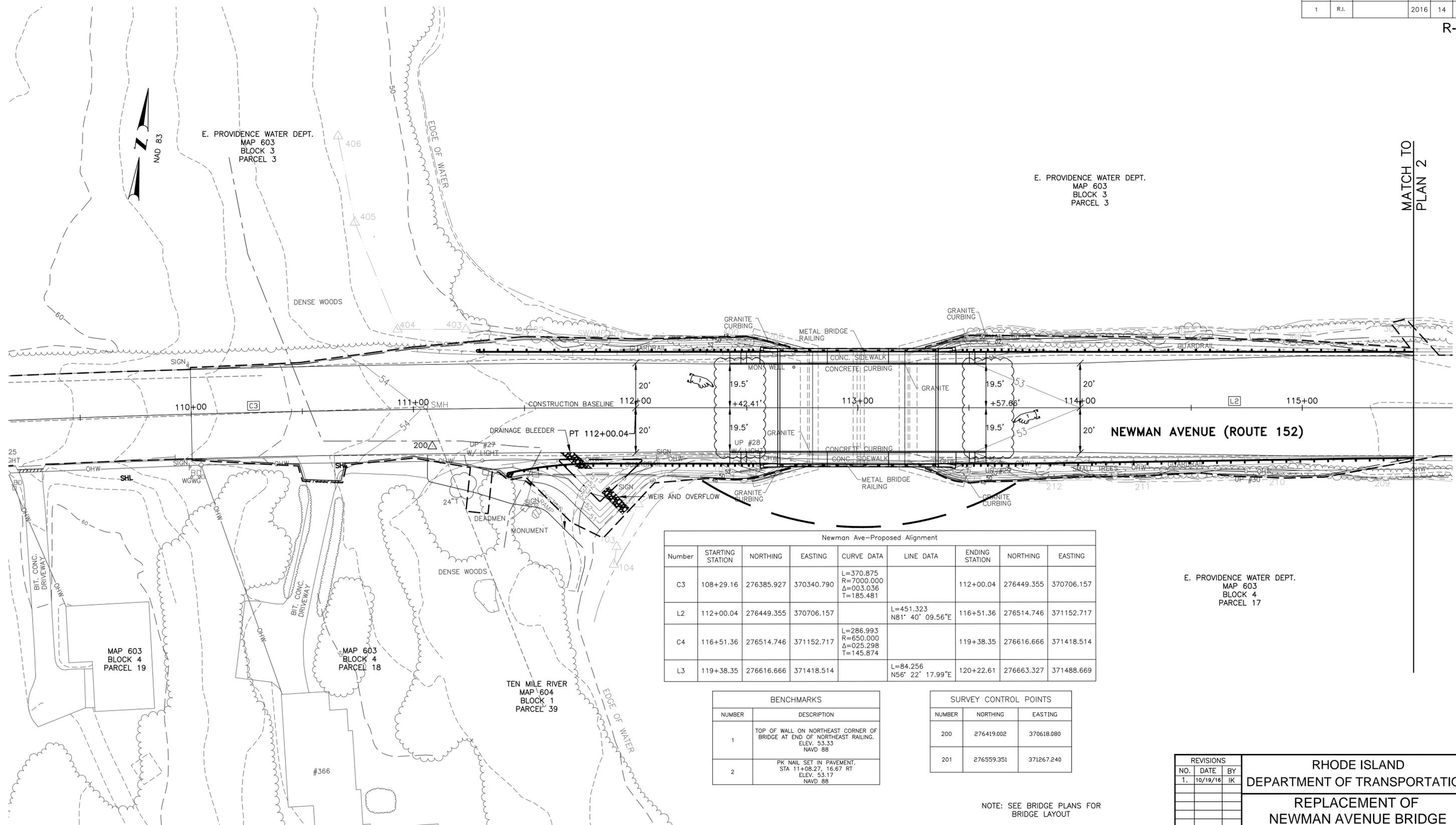
- SANITARY SEWER, GAS, WATER, AND OTHER UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- ALL EXISTING MANHOLES, CATCH BASINS AND ROADWAY BOXES FOR ALL UTILITIES WITHIN THE PAVING LIMITS SHALL BE ADJUSTED TO GRADE AS REQUIRED EXCEPT WHERE REPLACEMENT IS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS HEREBY MADE AWARE THAT EXISTING UTILITIES, INCLUDED BUT NOT LIMITED TO EXISTING WATER AND DRAIN PIPES; DRAINAGE AND SEWER STRUCTURES; GAS LINES AND UTILITY POLES, MAY NEED TO BE PROTECTED AND/OR SHORED UP DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS UNDER THIS PROJECT. THE COST OF THE ADDITIONAL WORK REQUIRED FOR THE PROTECTION, MAINTENANCE AND SUPPORT OF THESE OR OTHER EXISTING ABOVEGROUND OR UNDERGROUND UTILITIES IN THE VICINITY OF THE PROPOSED WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK UNDER THIS CONTRACT.
- EXISTING DRAINAGE INVERT ELEVATIONS SHALL BE MAINTAINED.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE ALL CONTROLS AS NEEDED OR DIRECTED IN ACCORDANCE WITH THE SMALL SITE STORMWATER POLLUTION PREVENTION PLAN. MAINTENANCE SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 212 OF THE RIDOT STANDARD SPECIFICATIONS, AMENDED 2013 AND ALL REVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT ALL NECESSARY MAINTENANCE DURING ALL PHASES OF PROJECT CONSTRUCTION INCLUDING PERIODS OF "WINTER SHUTDOWN".
- THE CONTRACTOR SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE INSIGNIFICANT ALTERATION PERMIT ISSUED FOR APPLICATION NO.15-0017.

JOB SPECIFIC SIGN NOTES:

- ALL SIGNS ARE TO BE RETAINED EXCEPT AS NOTED ON THE PLANS.



REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
1.	10/19/16	IK	REPLACEMENT OF NEWMAN AVENUE BRIDGE NO. 224	
			EAST PROVIDENCE, RHODE ISLAND	
			JOB SPECIFIC LEGEND AND NOTES	
			CHECKED BY <u> K.I. </u> DATE <u> </u> SCALE <u>NO SCALE</u>	



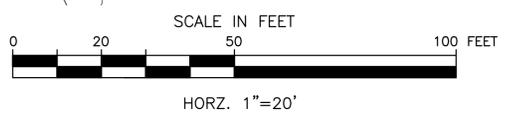
MATCH TO PLAN 2

Newman Ave-Proposed Alignment							
Number	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING EASTING
C3	108+29.16	276385.927	370340.790	L=370.875 R=7000.000 Δ=003.036 T=185.481		112+00.04	276449.355 370706.157
L2	112+00.04	276449.355	370706.157		L=451.323 N81° 40' 09.56"E	116+51.36	276514.746 371152.717
C4	116+51.36	276514.746	371152.717	L=286.993 R=650.000 Δ=025.298 T=145.874		119+38.35	276616.666 371418.514
L3	119+38.35	276616.666	371418.514		L=84.256 N56° 22' 17.99"E	120+22.61	276663.327 371488.669

BENCHMARKS	
NUMBER	DESCRIPTION
1	TOP OF WALL ON NORTHEAST CORNER OF BRIDGE AT END OF NORTHEAST RAILING. ELEV. 53.33 NAVD 88
2	PK NAIL SET IN PAVEMENT. STA 11+08.27, 16.67 RT ELEV. 53.17 NAVD 88

SURVEY CONTROL POINTS		
NUMBER	NORTHING	EASTING
200	276419.002	370618.080
201	276559.351	371267.240

NOTE: SEE BRIDGE PLANS FOR BRIDGE LAYOUT



REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION
NO.	DATE	BY	
1.	10/19/16	IK	REPLACEMENT OF NEWMAN AVENUE BRIDGE NO. 224
			EAST PROVIDENCE, RHODE ISLAND
			LOCATION AND GRADING PLAN NO. 1
			CHECKED BY <u> K.I. </u> DATE <u> </u> SCALE <u>1"=20'</u>

F:\Projects\2000\2011\2011_001\Drawings\Current_Design\0171B_V1_014_LOCATION_GRAPHPLAN1 - Layout_2.dwg SCALE: 1"=20'-0" DATE: 10/20/2016

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2016	20	48

R-1

GENERAL TRAFFIC MAINTENANCE PLAN NOTES:

- ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED.
- CONTRACTOR SHALL RELOCATE OR COVER ALL EXISTING SIGNS WHERE THEY WOULD CONFLICT WITH CONSTRUCTION SIGNAGE. AT THE COMPLETION OF WORK ALL EXISTING SIGNING SHALL BE RESTORED. THE COST SHALL BE CONSIDERED INCIDENTAL TO THE WORK UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING CONSTRUCTION SIGNAGE SO AS NOT TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES AND STOPPING SIGHT DISTANCE. THE COST SHALL BE CONSIDERED INCIDENTAL TO THE WORK UNDER THIS CONTRACT.

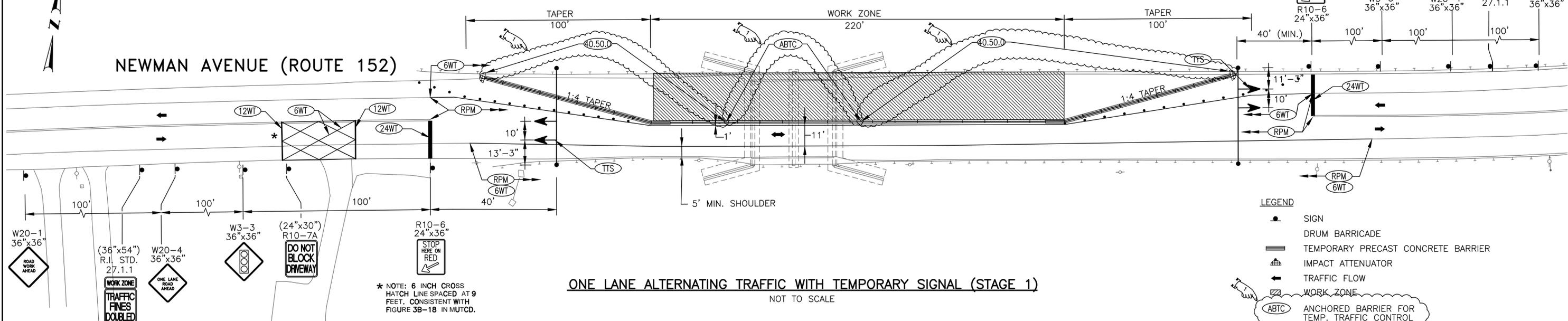
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER IF NECESSARY.
- EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE USED IN ADDITION TO ADVANCE WARNING SIGNS. PCMS SHALL BE LOCATED OUTSIDE OF THE CLEAR ZONE OR PROTECTED BY SABM'S. PAYMENT SHALL BE MADE UNDER ITEM 925.0112 PORTABLE CHANGEABLE MESSAGE SIGN.
- INSTALL PORTABLE MESSAGE SIGNS (PCMS) ON ROUTE 152 100 FEET EAST OF THE ROUTE 114/ROUTE 152 INTERSECTION AND

1,000 FEET EAST OF THE MASSACHUSETTS STATE LINE TO INDICATE CONSTRUCTION AND NEW TRAFFIC PATTERN. PCMS MESSAGES SHALL BE CHANGED WHEN DIRECTED BY THE ENGINEER.



- PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN SIDEWALK ON AT LEAST ONE SIDE OF THE BRIDGE AT ALL TIMES.
- CONTRACTOR SHALL ACCESS THE WORK ZONE BY REMOVING AND RESETTING BARRIERS. THE COST FOR REMOVING AND RESETTING THE BARRIERS IS INCIDENTAL TO THE CONTRACT.
- CONTRACTOR IS PROHIBITED FROM OPENING 2 TRAVEL LANES ON THE BRIDGE ONCE THE TEMPORARY TRAFFIC SIGNALS ARE IN PLACE.

NEWMAN AVENUE (ROUTE 152)



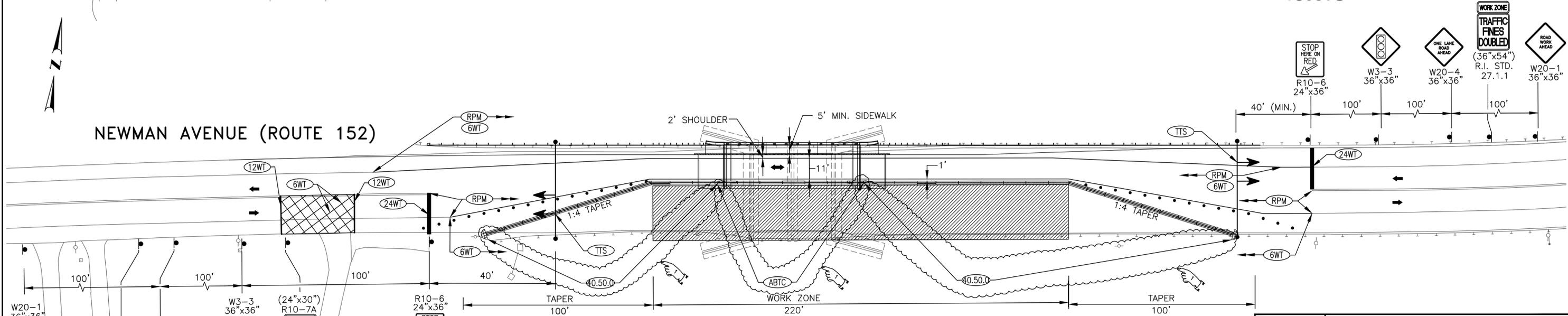
ONE LANE ALTERNATING TRAFFIC WITH TEMPORARY SIGNAL (STAGE 1)

NOT TO SCALE

LEGEND

- SIGN
- DRUM BARRICADE
- TEMPORARY PRECAST CONCRETE BARRIER
- IMPACT ATTENUATOR
- TRAFFIC FLOW
- WORK ZONE
- ANCHORED BARRIER FOR TEMP. TRAFFIC CONTROL (ABTC)

NEWMAN AVENUE (ROUTE 152)



ONE LANE ALTERNATING TRAFFIC WITH TEMPORARY SIGNAL (STAGE 2)

NOT TO SCALE

REVISIONS		
NO.	DATE	BY
1.	10/19/16	IK

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

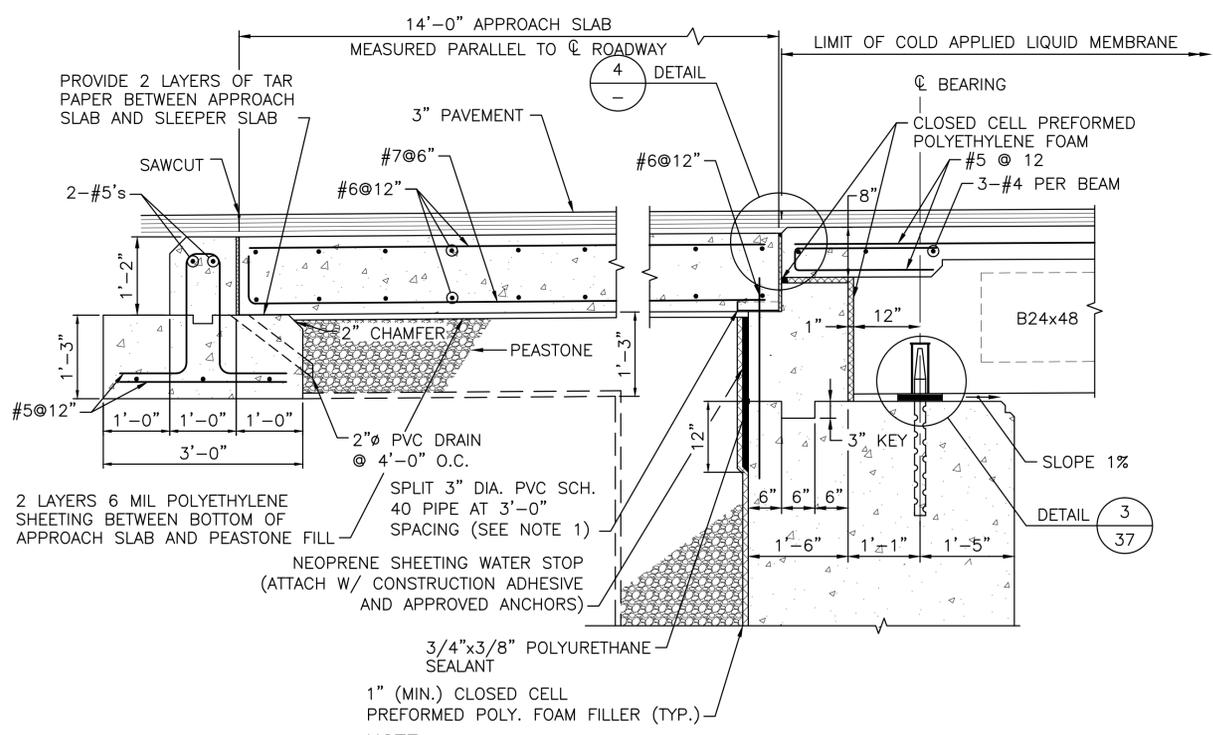
EAST PROVIDENCE, RHODE ISLAND

MAINTENANCE AND
PROTECTION OF TRAFFIC PLAN
NO. 1

CHECKED BY K.I. DATE SCALE AS NOTED

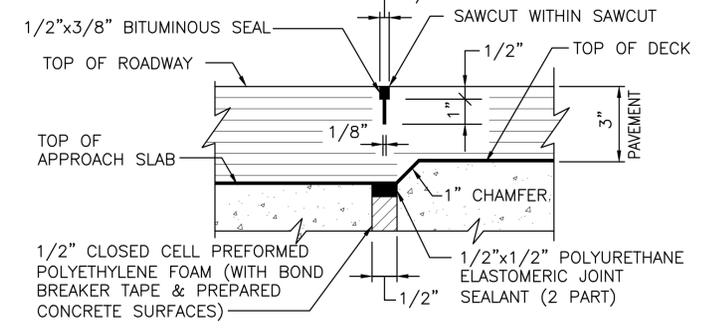


ADDENDUM # 1

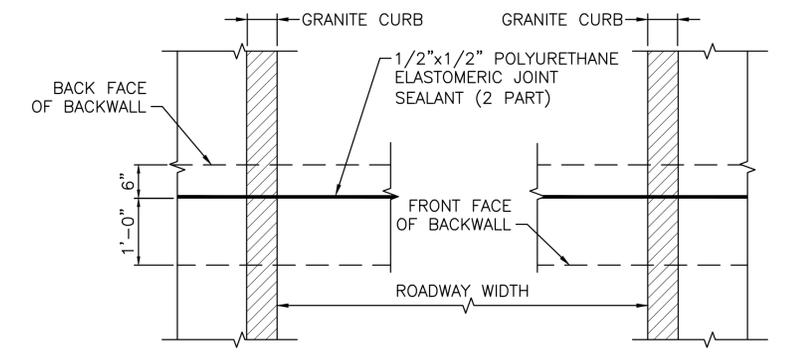


- NOTE:**
- 1 C.F. CRUSHED STONE AT EACH DRAIN PIPE. COST TO BE INCLUDED IN ITEM CODE 800.9901.
 - POUR BACKWALL AFTER BEAMS ARE IN PLACE.
- SOUTH ABUTMENT SHOWN, NORTH ABUTMENT SIMILAR

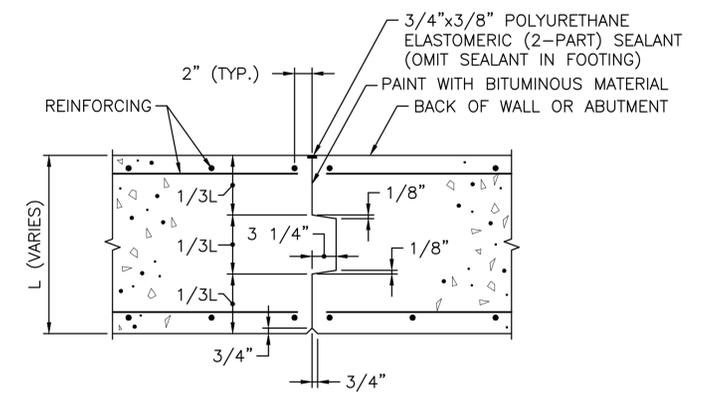
SECTION AT ABUTMENT
SCALE: 3/4"=1'-0"



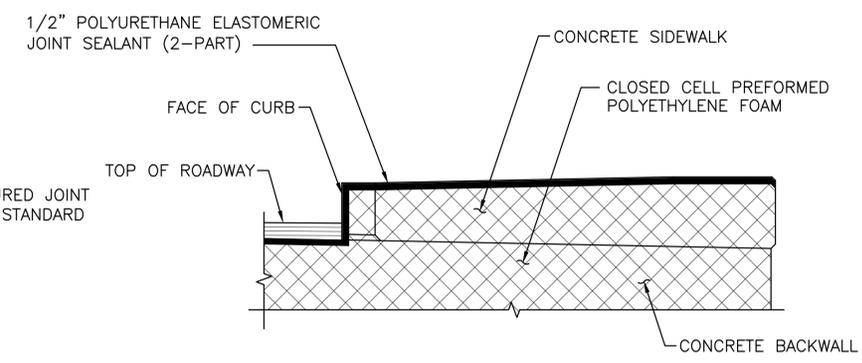
DETAIL 4
NOT TO SCALE



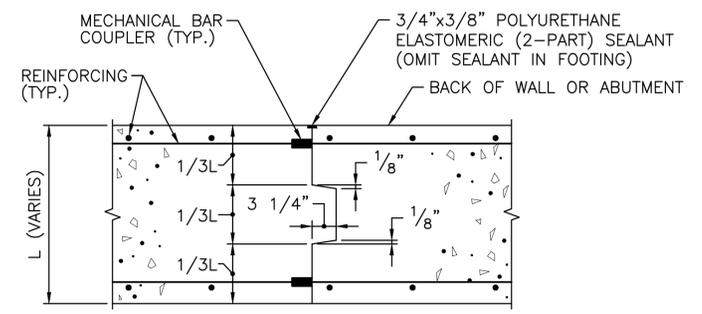
PLAN AT ROADWAY WITH SIDEWALKS
NOT TO SCALE



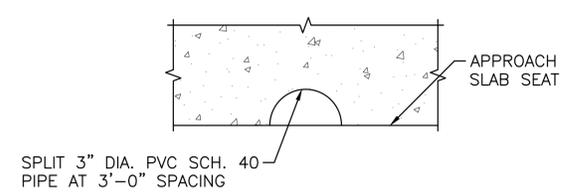
CONTRACTION JOINT DETAIL
NOT TO SCALE



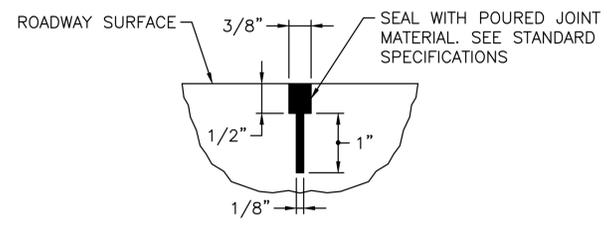
SECTION THRU ROADWAY JOINT AT SIDEWALKS
NOT TO SCALE



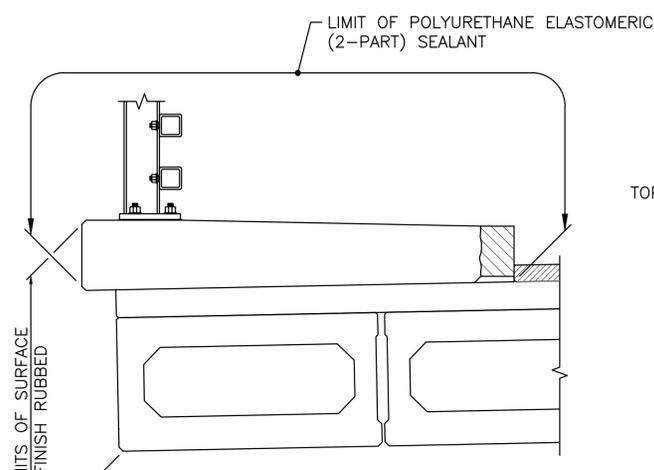
CONSTRUCTION JOINT DETAIL



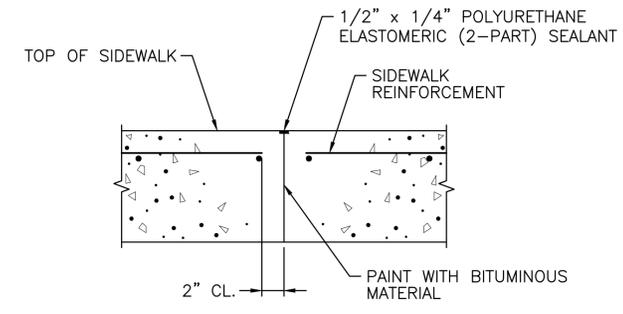
PIPE DRAIN DETAIL
NOT TO SCALE



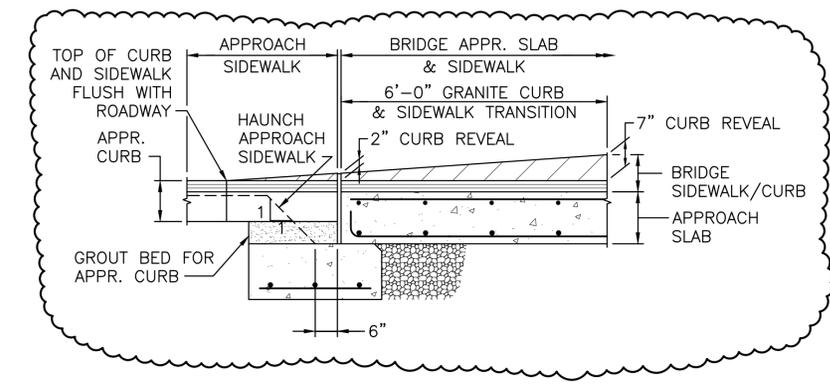
SAW CUT DETAIL
NOT TO SCALE



SIDEWALK CONTRACTION JOINT SEALANT AND SURFACE FINISH RUBBED LIMIT
NOT TO SCALE



SIDEWALK JOINT DETAIL
NOT TO SCALE



SECTION F
NOT TO SCALE

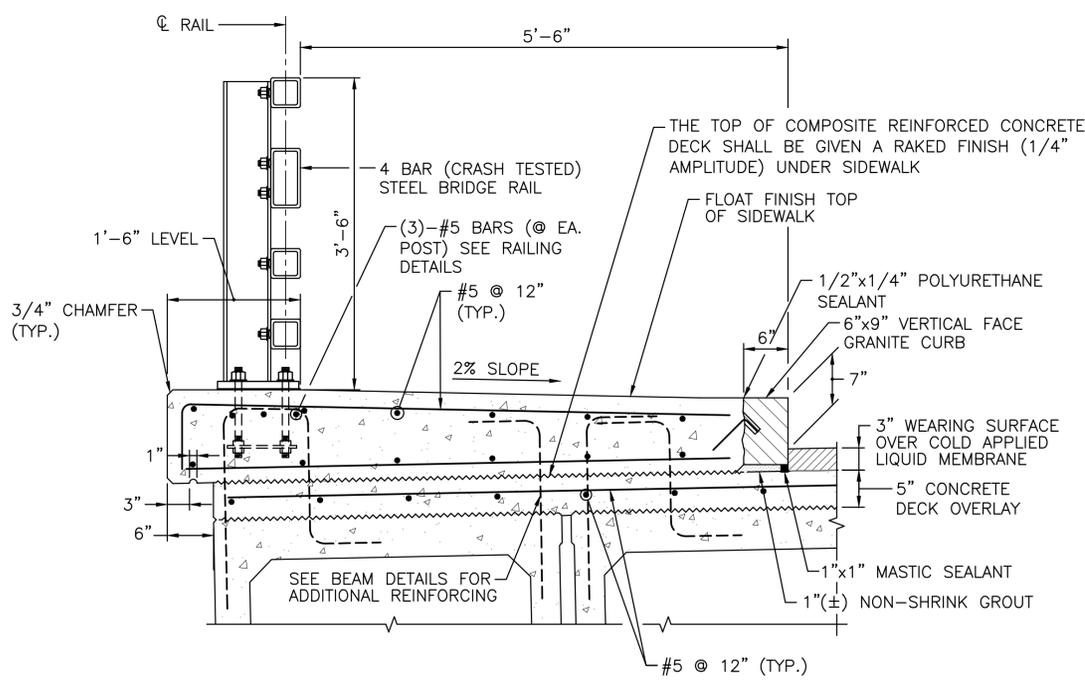


REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
			REPLACEMENT OF NEWMAN AVENUE BRIDGE NO. 224	
			EAST PROVIDENCE, RHODE ISLAND	
			JOINT DETAILS	
			CHECKED BY <u>RS</u>	DATE <u>05/01/15</u> SCALE <u>AS NOTED</u>

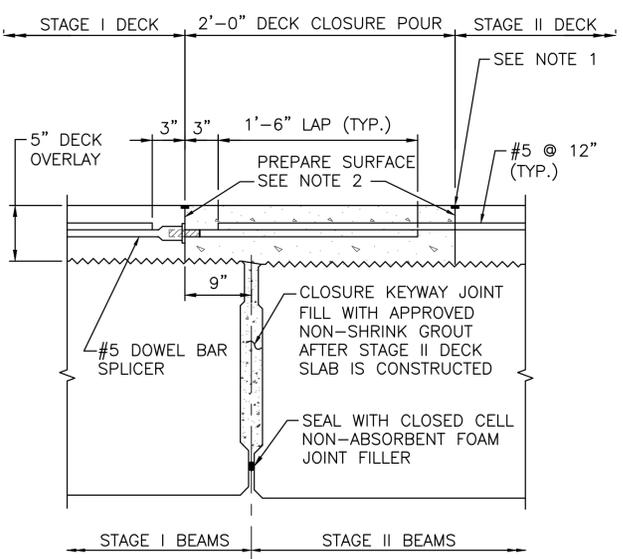
F:\Projects\2000\2011\2011.001\Drawings\Addendum No. 1\0171B_V1_034_JOINT - Layout.dwg DATE:10/10/2014

NOTES:

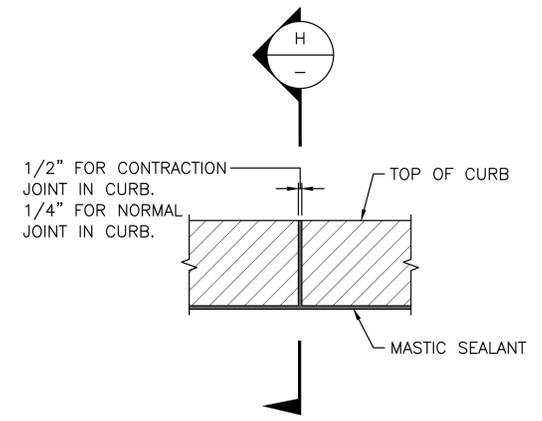
1. AFTER DECK HAS CURED PROVIDE 1/2"x1/2" SAWCUT, CENTERED ON CONSTRUCTION JOINT, AND FILL WITH RIDOT APPROVED POLYURETHANE ELASTOMERIC SEALANT.
2. THE SURFACE OF THE PREVIOUSLY CAST CONCRETE SHALL BE BLAST CLEANED, ROUGHENED, WETTED WITH CLEAN WATER AND THEN FLUSHED WITH A MORTAR COMPOSED OF EQUAL PARTS OF THE CEMENT AND SAND SPECIFIED FOR THE NEW CONCRETE, BEFORE NEW CONCRETE IS PLACED ADJACENT THERETO. NEW CONCRETE SHALL BE PLACED BEFORE MORTAR HAS TAKEN INITIAL SET.
3. IN LIEU OF THE MORTAR, AN EPOXY ADHESIVE SUITABLE FOR BONDING FRESH CONCRETE TO HARDENED CONCRETE FOR LOAD BEARING APPLICATIONS MAY BE USED AT NO ADDITIONAL CHARGE TO THE STATE WITH THE APPROVAL OF THE ENGINEER. THE EPOXY ADHESIVE SHALL CONFORM TO AASHTO DESIGNATION M235 TYPE V AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. FOR CUTTING TOLERANCES ON GRANITE CURB SEE RI STANDARD SPECIFICATION M-09.05.
5. STRAIGHT CURB SHALL BE FURNISHED IN LENGTHS OF NOT LESS THAN 6 FEET OR GREATER THAN 10 FEET. (5 FOOT LENGTHS MAY BE ALLOWED UNDER UNUSUAL CIRCUMSTANCES, BUT ONLY WITH THE APPROVAL OF THE BRIDGE ENGINEER).



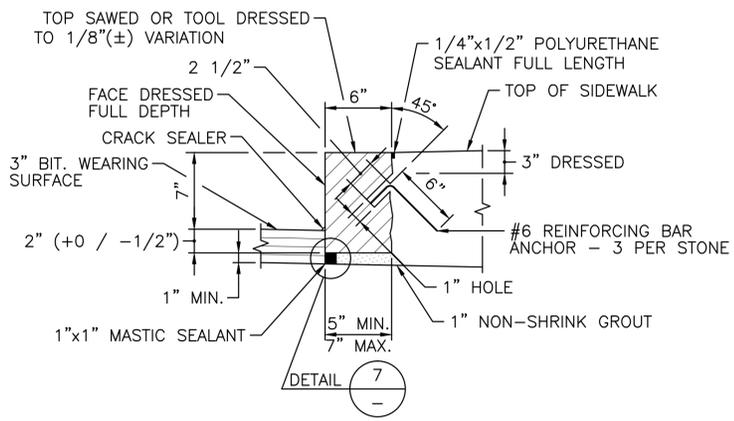
SECTION THRU SIDEWALK
SCALE: 1"=1'-0"



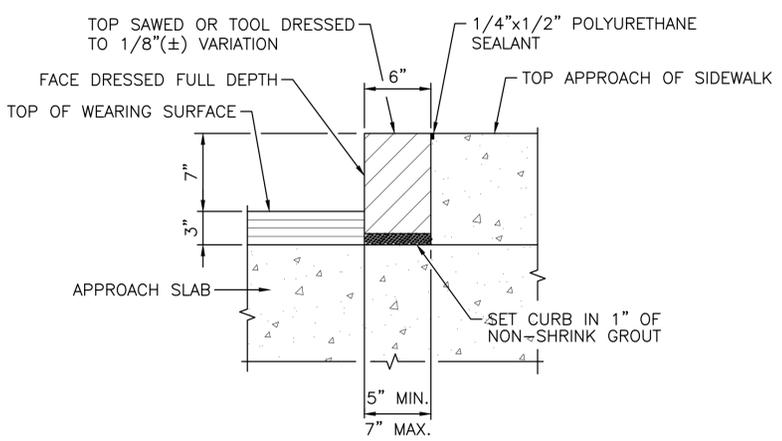
CLOSURE POUR DETAIL
SCALE: 1 1/2"=1'-0"



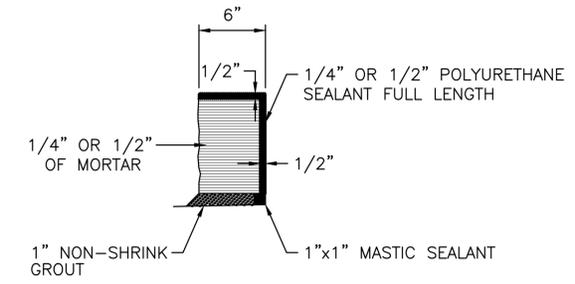
ELEVATION AT FACE OF CURB
NOT TO SCALE



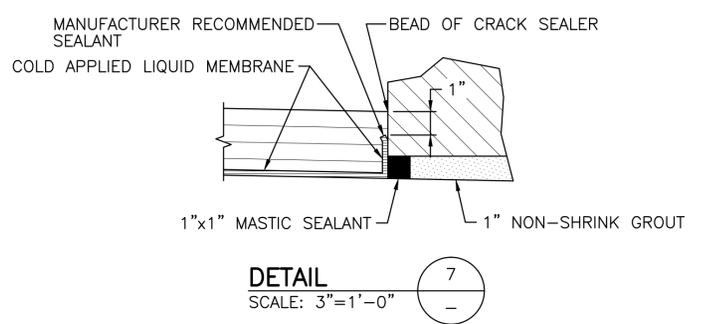
6"x 9" VERTICAL FACE GRANITE CURB
SCALE: 1 1/2"=1'-0"



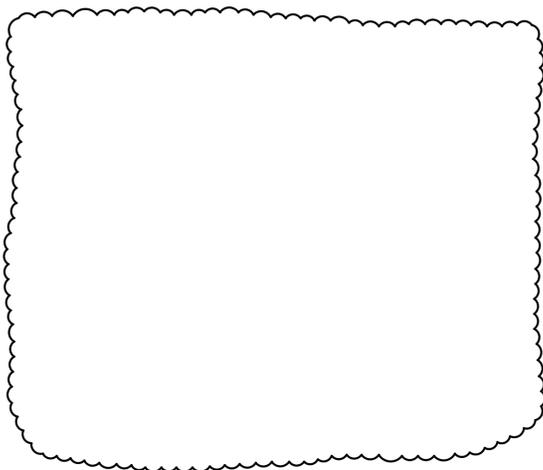
6"x9" GRANITE CURB AT ABUTMENT BACKWALL
SCALE: 1 1/2"=1'-0"



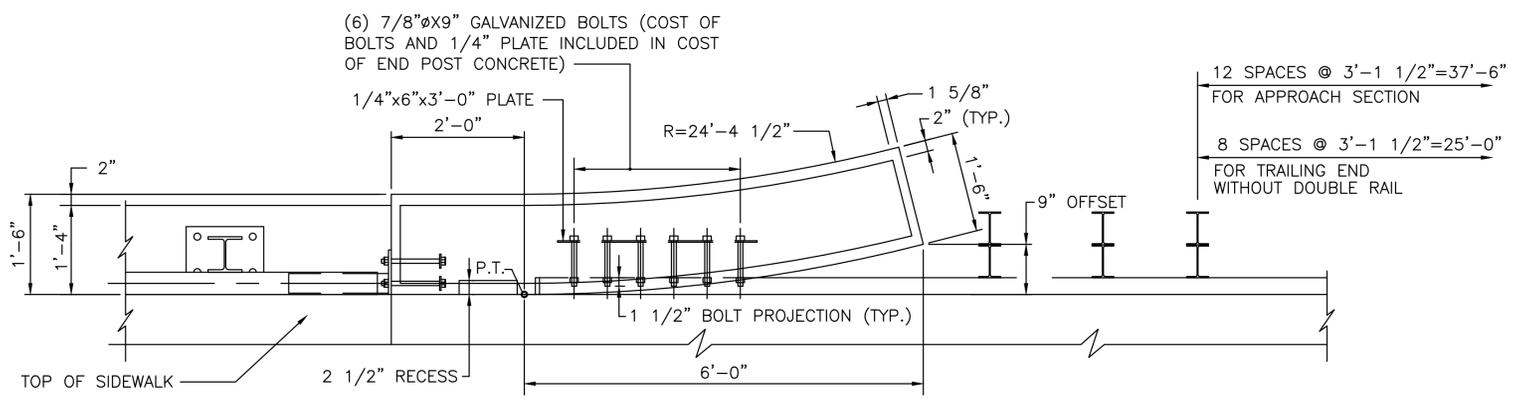
SECTION
SCALE: 1 1/2"=1'-0"



DETAIL
SCALE: 3"=1'-0"

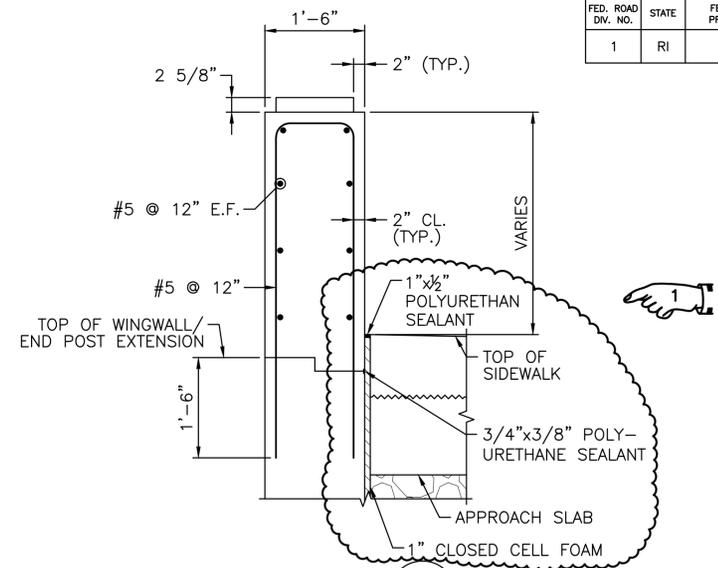


REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	DATE	BY		
			REPLACEMENT OF NEWMAN AVENUE BRIDGE NO. 224	
			EAST PROVIDENCE, RHODE ISLAND	
			SIDEWALK AND CURB DETAILS	
			CHECKED BY <u>RS</u>	DATE <u>05/01/15</u> SCALE <u>AS NOTED</u>



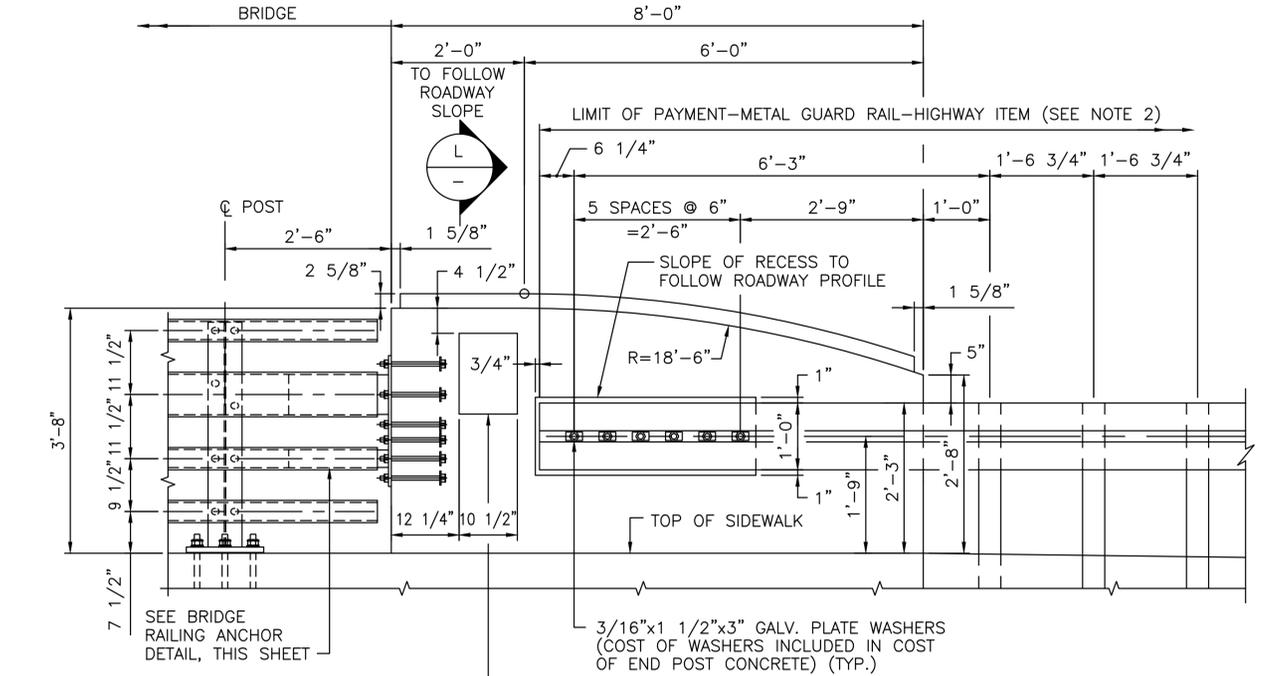
PLAN

SCALE: 3/4"=1'-0"



SECTION

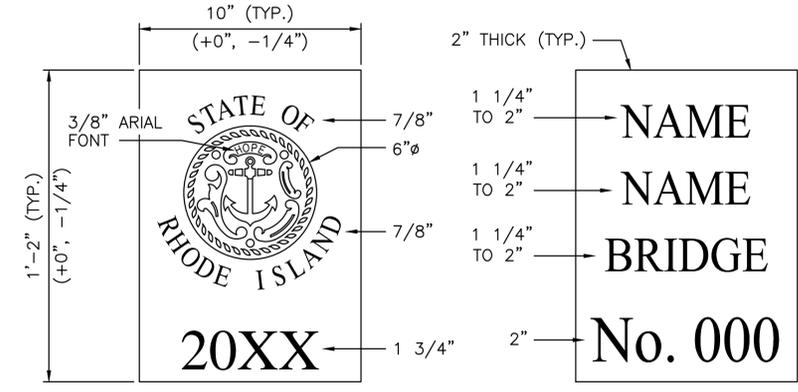
SCALE: 3/4"=1'-0"



ELEVATION

SCALE: 3/4"=1'-0"

DETAIL OF 8 FOOT END POST



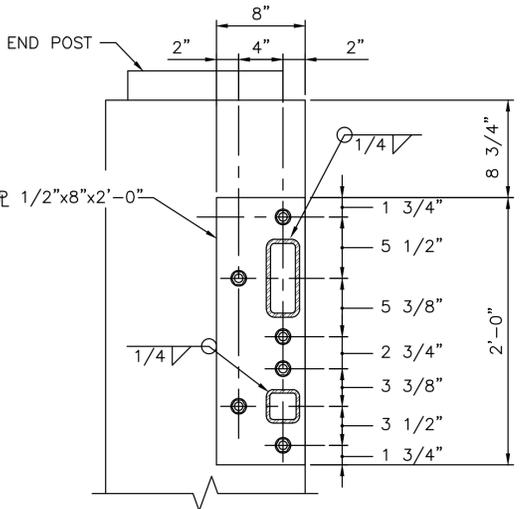
STATE SEAL TABLET

BRIDGE NAME TABLET

NOTE: ALL FONT STYLES ARE TO BE NEW TIMES ROMAN, UNLESS NOTED OTHERWISE.

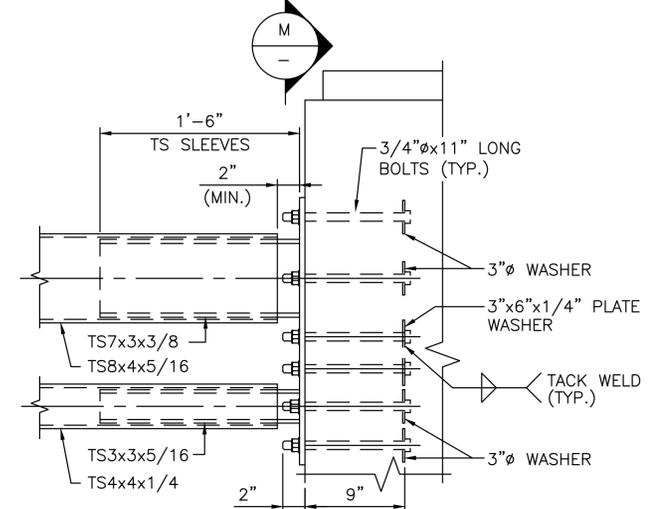
GRANITE IDENTIFICATION TABLETS (NAMEPLATES)

SCALE: 3"=1'-0"



SECTION

SCALE: 1 1/2"=1'-0"



BRIDGE RAILING ANCHOR DETAIL

SCALE: 1 1/2"=1'-0"

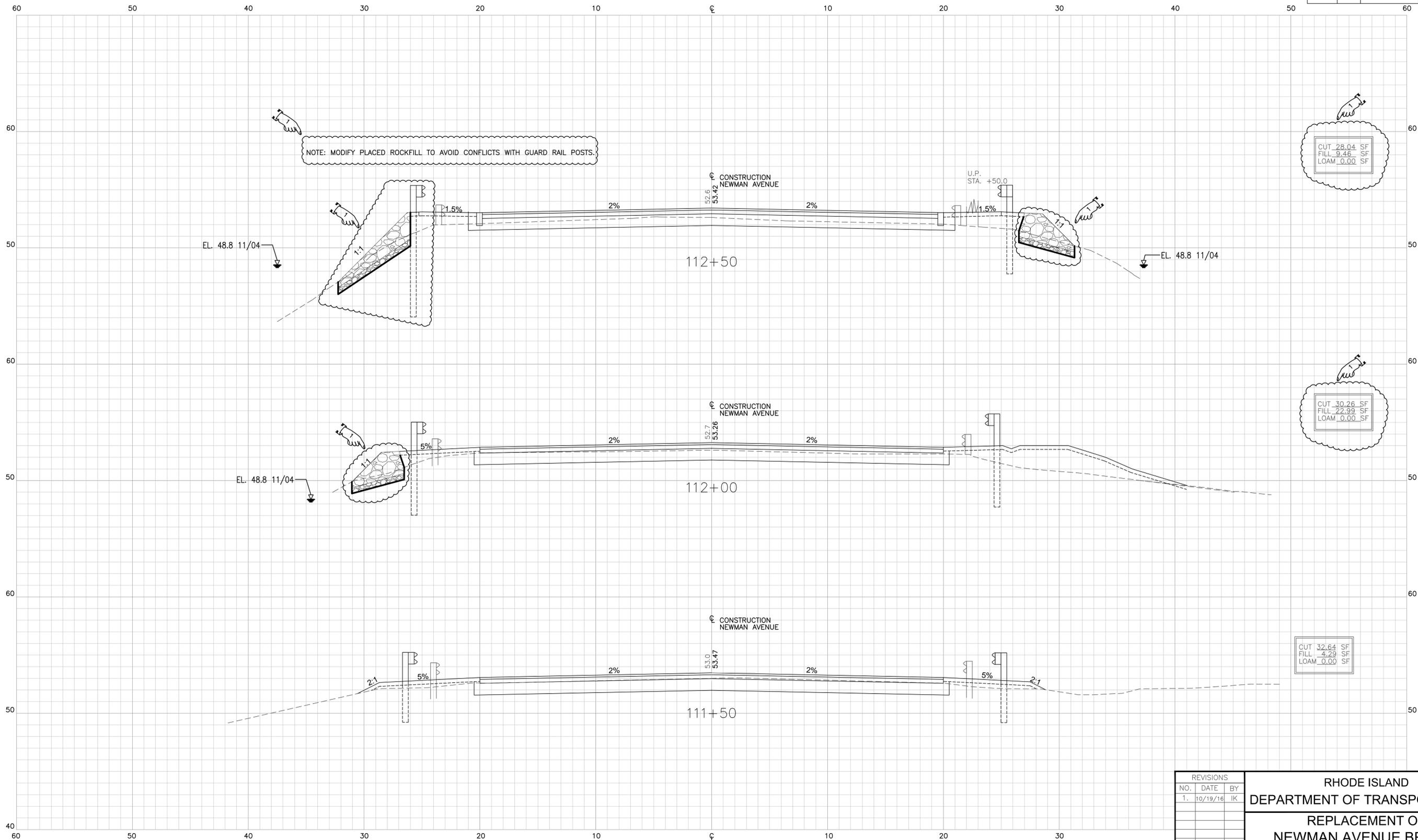
NOTES:

1. TO INSURE PROPER GUARD RAIL ANCHORAGE, THE GUARD RAIL INSTALLATION SHALL BEGIN AT EACH END OF THE BRIDGE AND WORK INTO THE APPROACHES.
2. THE COST OF THE GUARD RAIL TRANSITION TO BRIDGE END POSTS ARE HIGHWAY ITEMS. APPROACH SECTIONS AND TRAILING SECTIONS ARE SEPARATE ITEMS IN THE PROPOSAL.
3. THE COST OF BRIDGE RAIL ANCHORAGE (PLATES, ANCHOR BOLTS, WASHERS AND PLATE SLEEVES) IS INCLUDED IN COST OF POST CONCRETE.

REVISIONS			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
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			EAST PROVIDENCE, RHODE ISLAND	
			END POST DETAILS	
			CHECKED BY <u>RS</u>	DATE <u>05/01/15</u> SCALE <u>AS NOTED</u>



F:\Projects\2020\2011\0211\0211\Drawings\EndPost.dwg DATE: 10/19/2016



CUT 28.04 SF
FILL 9.46 SF
LOAM 0.00 SF

CUT 30.26 SF
FILL 22.99 SF
LOAM 0.00 SF

CUT 32.64 SF
FILL 4.29 SF
LOAM 0.00 SF

REVISIONS		
NO.	DATE	BY
1.	10/19/16	IK

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224**

EAST PROVIDENCE, RHODE ISLAND

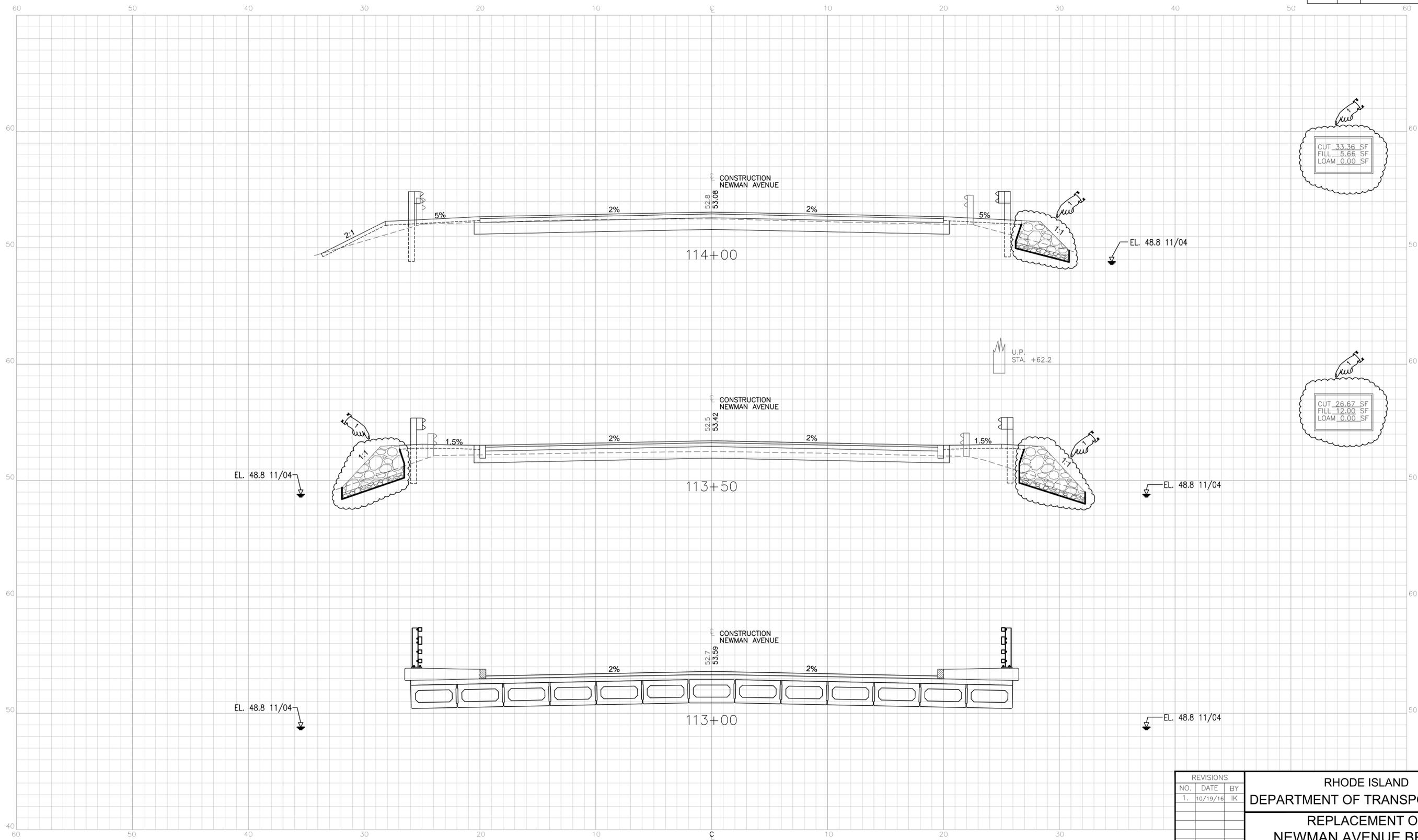
CROSS SECTIONS

CHECKED BY KI DATE SCALE 1/4" = 1'-0"



F:\Projects\2016\011\001\Drawings\Current Design\0171B_V1_44_SEC02 - Layout 1.dwg SCALE: 1/4"=1'-0" DATE: 10/20/2016

ADDENDUM # 1



CUT 33.36 SF
FILL 5.66 SF
LOAM 0.00 SF

CUT 26.67 SF
FILL 12.00 SF
LOAM 0.00 SF

REVISIONS		
NO.	DATE	BY
1.	10/19/16	IK

**RHODE ISLAND
DEPARTMENT OF TRANSPORTATION**

**REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224**

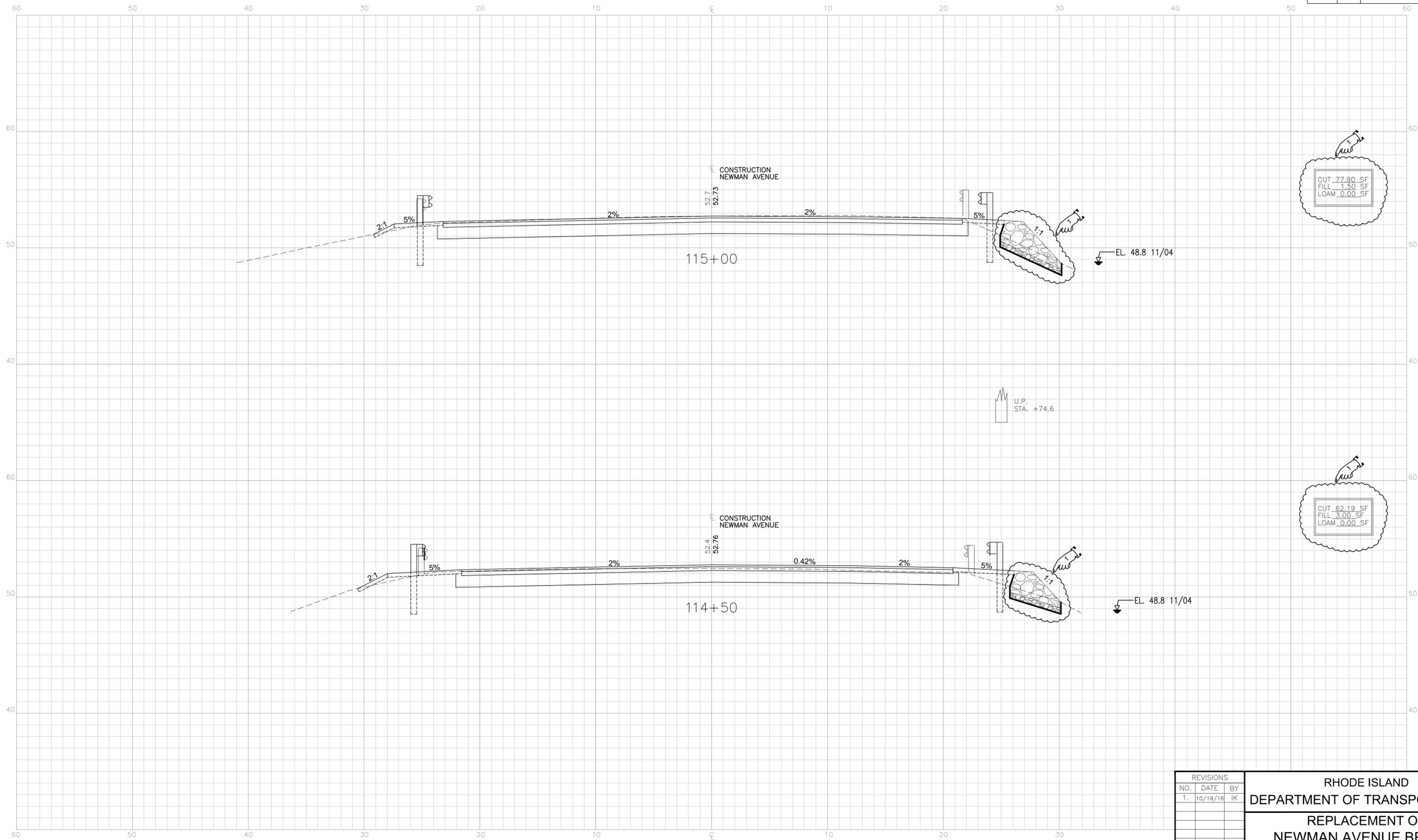
EAST PROVIDENCE, RHODE ISLAND

CROSS SECTIONS

CHECKED BY KI DATE SCALE 1/4" = 1'-0"



F:\Projects\2000\2011\2011.001\Drawings\Current Design\071B_V1_045_SEC03 - Layout 1.dwg SCALE: 1/4"=1'-0" DATE: 10/20/2016



CUT 77.90 SF
 FILL 1.50 SF
 LOAM 0.00 SF

CUT 62.19 SF
 FILL 3.00 SF
 LOAM 0.00 SF

REVISIONS		
NO.	DATE	BY
1.	10/19/16	IK

**RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION**

**REPLACEMENT OF
 NEWMAN AVENUE BRIDGE
 NO. 224**

EAST PROVIDENCE, RHODE ISLAND

CROSS SECTIONS

CHECKED BY KI DATE SCALE 1/4" = 1'-0"



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**GENERAL PROVISIONS - CONTRACT SPECIFIC
INDEX**

Paragraph	Title	Page
1.	Brief Scope of Work	CS-1
2.	List of Contract Drawings	CS-1
3.	Specialty Items	CS-2
4.	Utility and Municipal Notification and Coordination	CS-2
5.	Utility Verification	CS-3
6.	Sequence of Construction/Maintenance & Movement of Traffic	CS-3
7.	Contractor's Responsibility for Damaged Storm Drains	CS-4
8.	Storage of Construction Materials and/or Equipment	CS-4
9.	Maintenance of Public Areas	CS-4
10.	Traffic Fines in Work Zone	CS-5
11.	Legal Relations and Responsibilities to Public Utilities and Facilities	CS-5
12.	Coordination with Other Contracts	CS-5
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15.	Adjusting Utility Structures	CS-6
16.	Signs	CS-6
17.	Special Requirements for Micro Milling and Paving Operations	CS-6
18.	Survey	CS-7
19.	Placement of Pavement Markings	CS-7
20.	Shop Drawings	CS-7
21.	Lump Sum Bid Items	CS-8
22.	Unit Bid Item and Lump Sum Bid Item Payments	CS-8
23.	Transportation Management Plan	CS-8
24.	Pavement Core Logs	CS-9
25.	Soil Erosion and Sediment Control Plan	CS-9
26.	Insignificant Alteration Permit	CS-9
27.	Northern Long Eared Bat Information	CS-9
28.	Newman Avenue Bridge Existing Plans	CS-9

Appendix A: Transportation Management Plan

Appendix B: Pavement Core Logs

Appendix C: Soil Erosion and Sediment Control Plan

Appendix D: Insignificant Alteration Permit

Appendix E: Northern Long Eared Bat Information

Appendix F: Newman Avenue Bridge Existing Plans

and/or enforcement.

The Department's latest Training Guidelines for Personnel Responsible for Work Zone Safety & Mobility are available under the "Training" section at <http://www.dot.ri.gov/humanresources/index.asp>.

The TMP is included in Appendix A.

24. PAVEMENT CORE LOGS

The results of the pavement cores are shown in Appendix B.

25. SOIL EROSION AND SEDIMENT CONTROL PLAN

The Erosion and Sediment Control Plan is shown in Appendix C.

26. INSIGNIFICANT ALTERATION PERMIT

The Insignificant Alteration Permit is included in Appendix D.

27. NORTHERN LONG EARED BAT INFORMATION

The Northern Long Eared Bat Information is included in Appendix E.

28. NEWMAN AVENUE BRIDGE EXISTING PLANS

The existing bridge plans are included in Appendix F.

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APPENDIX E

NORTHERN LONG EARED BAT INFORMATION

RIDOT Natural Resources Unit
Note to File
ESA Informal Programmatic Consultation
Northern Long-Eared Bats

Date: 22 September 2016

Subject: PTS ID# 0171B
REPLACEMENT OF NEWMAN AVENUE BRIDGE #224
ROUTE 152 OVER TEN MILE RIVER, FROM BARNEY STREET TO THE RI STATE LINE
EAST PROVIDENCE< PROVIDENCE COUNTY, RHODE ISLAND
DESIGN R.I.C. # 2001-EB-005
CONSTRUCTION F.A.P. #BRO-0224(003)

Effective May 4, 2015, the Northern Long-Eared Bat (*Myotis septentrionalis*; NLEB) was listed under the Endangered Species Act (ESA) of 1973 as a "Threatened" species. Along with the listing, the US Fish and Wildlife Service (USFWS) issued a Final 4(d) rule, effective January 14, 2016, which means that for all areas within the range of NLEB, certain activities which may involve incidental take may be exempted from some prohibitions under Section 9, provided appropriate conservation measures are employed. Allowable activities under the Final 4(d) rule include maintenance and limited expansion of transportation and utility rights-of-way, as defined.

A review of the advertising submission, prepared by Green International Affiliates, Inc., and dated September 2016 indicates that all proposed work will occur within 100' of the existing road surface, for a length of approximately 0.40 miles, along Newman Avenue (Route 152), from the intersection with Barney Street to the State Line, in East Providence, Providence County, Rhode Island. The project limits are entirely located within a "Coastal Community" for habitat removal considerations in accordance with the USFWS July 7, 2015 guidance.

Proposed work includes: replacement of the bridge, new abutments and wingwalls, rehabilitation of existing abutments and wingwalls, full depth pavement reconstruction, pavement resurfacing, installing pavement markings, adjusting existing drainage structures, creation of a sediment forebay for water quality improvement, cleaning existing drainage structures, furnishing and installing signs, installing new guardrail and end treatments, cleaning and sweeping pavement, localized loaming and seeding, maintenance and protection of traffic, and all other incidentals necessary to complete the project. There is some minor clearing and tree trimming proposed at isolated locations within the project limits. There is bridge work, including complete removal and replacement of the existing deck.

Land use along the Route 152 corridor within the project limits is a mixture of undeveloped forest, open water, and medium-high density residential. No portion of the project is within 1 mile of any known hibernaculum. Coordination with RIDEM reveals no known records of NLEB roosts within at least 7 miles of the project limits.

Proposed work represents primarily a Bridge Construction type project, as described in Section 2.3 of the May 18, 2015 FHWA/FRA/FTA Programmatic Biological Assessment for Transportation Projects in the Range of the Indiana Bat and Northern Long-Eared Bat (Range-Wide BA). The Range-Wide BA was developed in support of a programmatic consultation with the US Fish & Wildlife Service (USFWS). Night work may be permitted in this contract. The RI Standard Specifications (T.22.02.1) requires the use of cut-off type lights for night work, and the contractor's temporary lighting plan will be reviewed to ensure that the lights are not directed onto Suitable Summer Habitat.

This construction contract is funded, through FHWA, with Federal funds (FAP No: BRO-0224(003)), therefore consultation with USFWS is required. In accordance with the May 2016 User's Guide for the Range-Wide BA version 3.0, RIDOT has determined this project may affect, is Not Likely To Adversely Affect, NLEB. All work proposed is exempted under the 4(d) rule. In accordance with the programmatic consultation and USFWS Concurrence, issued May 20, 2016, a Project Submittal Form has been provided to USFWS. Consultation will be complete, subject to USFWS request for additional information, as of October 7, 2016.

The attached Notice To Contractor is to be included in the Advertising submission for this contract. If the scope of work changes, and/or the Contractor proposes work in areas that have not been reviewed and identified in the contract documents, and the result does not meet the conditions listed above, the contract shall require that the RIDOT Natural Resources Unit shall be notified PRIOR TO the commencement of construction and/or the approval by RIDOT of any contractor submission involving such changes. Such changes may involve additional coordination and/or formal consultation with the USFWS prior to approval.

Addendum No. 1

Special Attention

Northern Long Eared Bat (NLEB)
RE: Federal ESA Listing & "No Effect" Determination

Date: 22 September 2016

Subject: PTS ID# 0171B
REPLACEMENT OF NEWMAN AVENUE BRIDGE #224
ROUTE 152 OVER TEN MILE RIVER, FROM BARNEY STREET TO THE RI STATE LINE
EAST PROVIDENCE< PROVIDENCE COUNTY, RHODE ISLAND
DESIGN R.I.C. # 2001-EB-005
CONSTRUCTION: RIC# 2016-CB-051 F.A.P. # BRO-0224(003)

FOR INCLUSION IN THE CONTRACT SPECIFIC PROVISIONS
CONSULTATION CODE: CONSULTATION CODE: 05E1NE00-2016-SLI-2271

Effective May 4, 2015, the Northern Long-Eared Bat (*Myotis septentrionalis*; NLEB) was listed under the Endangered Species Act (ESA) of 1973 as a "Threatened" species. This act, managed by the US Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS), serves to protect and recover imperiled species and the critical habitats upon which they depend. The current population of NLEB is unknown in Rhode Island, as their numbers have decreased by up to 99% over the last several years. The most immediate threat to NLEB is the spread of white-nose syndrome, which disrupts bats during the hibernation period and greatly reduces their ability to survive the winter. This severe decrease in numbers greatly increases sensitivity to other threats that a more stable population may be able to withstand, including removal of suitable habitat and direct kill of individuals.

The contract is limited to work as described in the contract specific provisions for Construction RIC: 2016-CB-051 and on the contract drawings referenced therein. There is limited tree trimming or tree clearing authorized in the contract. Based on the above, and through consultation with the USFWS, it was determined that the proposed project may affect, is Not Likely To Adversely Affect, NLEB and no further coordination with USFWS is necessary. If any injured or dead bats are found within the project area, the RIDOT Natural Resources Unit shall be notified immediately. Injured or dead bats should not be handled, and are to be retained for transport to RIDOH/RIDEM.

Any tree trimming, cutting, and/or clearing proposed by the Contractor for any reason, which is not shown on the plans and which will occur on or after April 15, 2017, requires additional consultation with the USFWS. Such consultation shall occur through RIDOT, as the delegate of FHWA, the Lead Federal Agency, and consultation must be completed prior to authorization by RIDOT for the work to occur. Request to conduct such work shall be submitted as a shop drawing by the contractor, and may be limited to the project specific NLEB Inactive Season, from October 1 through April 14. The RIDOT Resident Engineer will coordinate all such requests with the RIDOT Natural Resources Unit.

All work described in the contract, and shown on the plans, has been reviewed and approved with respect to impacts to NLEB and its habitat. Should the Contractor propose to conduct work outside the project limits defined on the plans, and/or propose impacts to potential summer roost trees, or other suitable habitat, beyond what is shown on the plans (including off-site use areas), the Contractor shall be required to provide all necessary submittals in order to allow RIDOT to complete all necessary USFWS coordination, and shall be required to implement all necessary avoidance, minimization or mitigation efforts in order to meet ESA Section 7 rules. Compliance with this Notice which is a result of Contractor's selected means, methods, and /or use of off-site areas shall be accomplished at no additional cost to the State, and no claim for delay may be made due to the required Federal Consultation processes arising from such.

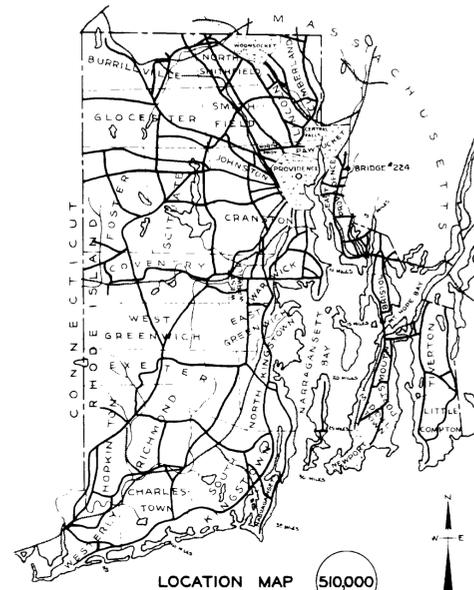
For additional information,, please visit the USFWS website at:
<http://www.fws.gov/midwest/endangered/mammals/nlba/>

APPENDIX F

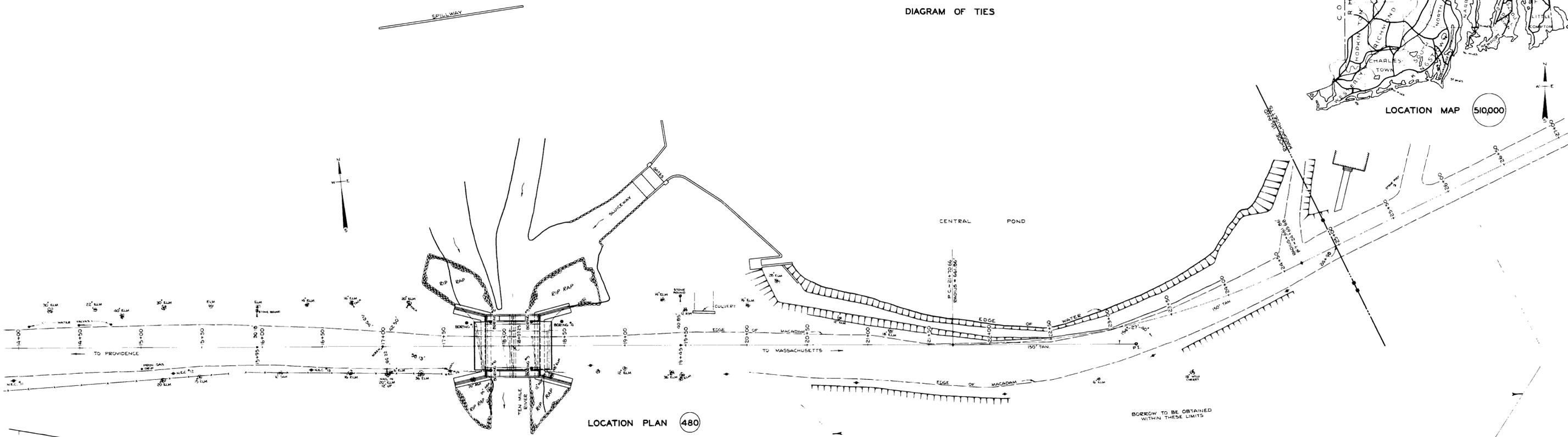
NEWMAN AVENUE BRIDGE EXISTING PLANS



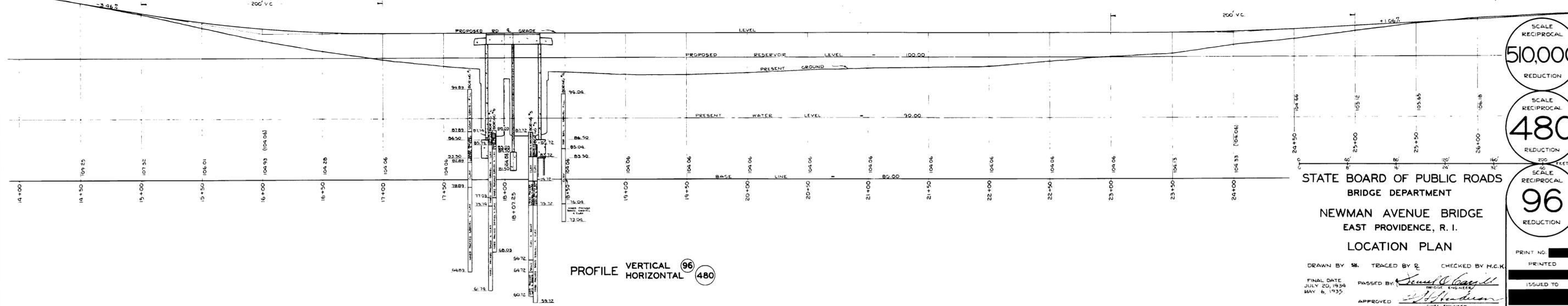
DIAGRAM OF TIES



LOCATION MAP 510,000



LOCATION PLAN 480



PROFILE VERTICAL 96 480

SCALE RECIPROCAL
510,000
REDUCTION

SCALE RECIPROCAL
480
REDUCTION

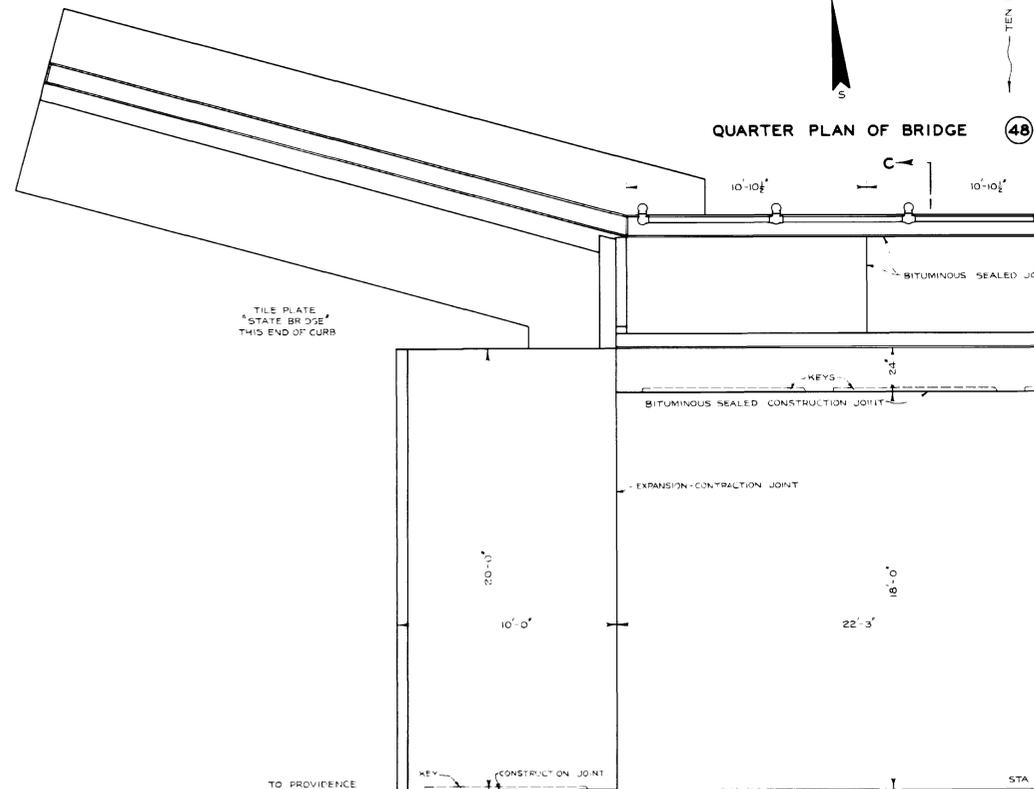
SCALE RECIPROCAL
96
REDUCTION

STATE BOARD OF PUBLIC ROADS
BRIDGE DEPARTMENT
NEWMAN AVENUE BRIDGE
EAST PROVIDENCE, R. I.
LOCATION PLAN

DRAWN BY *SB* TRACED BY *R* CHECKED BY H.C.K.
FINAL DATE JULY 20, 1934
MAY 6, 1935
APPROVED *W. H. ...*
CIVIL ENGINEER

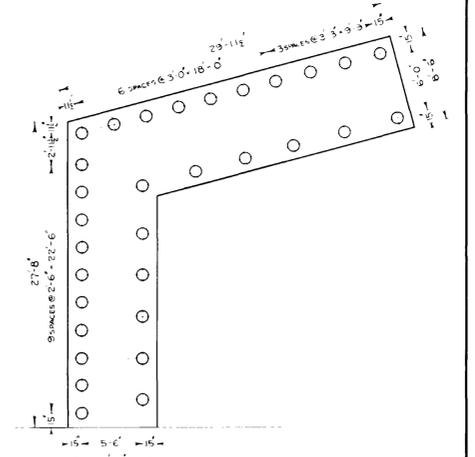
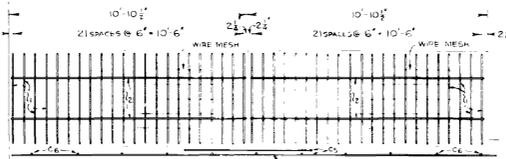


TEN MILE RIVER



HALF PLAN OF SIDEWALK AND ROAD CURB REINFORCEMENT (48)

QUARTER PLAN OF SLAB REINFORCEMENT (48)



EAST ABUTMENT PILING (96)

NOTES

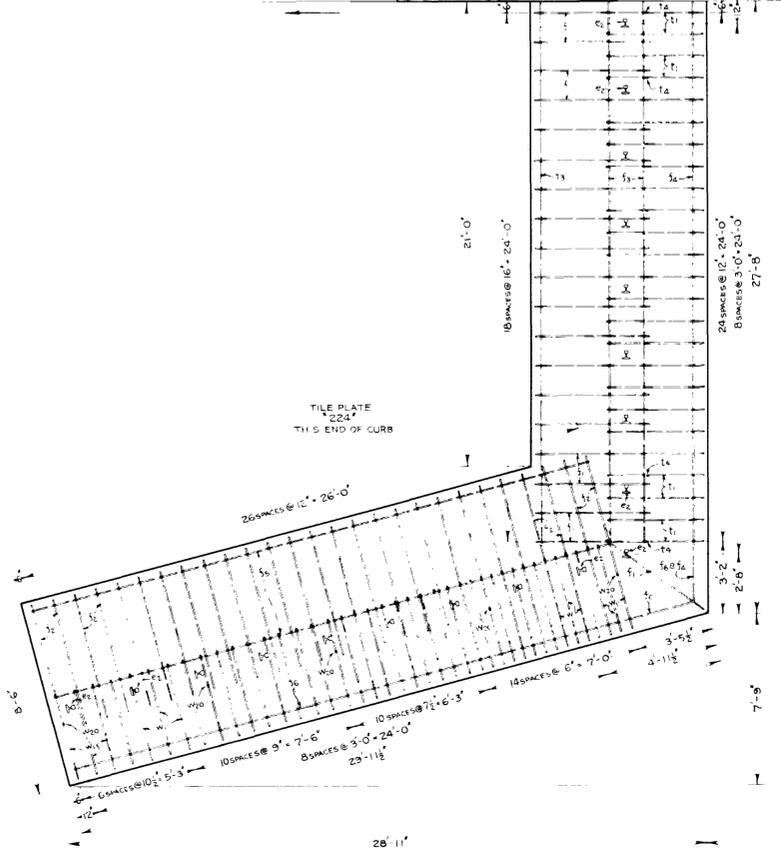
BRIDGE BENCH TO BE ESTABLISHED AT THE SITE BY THE ENGINEER
BRIDGE BENCHES - B.M. 'C.B. OF HOUSE' STA 12+44 ± 41.5' ± LEFT
ELEVATION = 117.94
B.M. 'SE CORNER R1 - MASS STONE BOUND' STA 24+98 ±
25.0' ± LEFT ELEVATION = 107.30
BRIDGE GRADE 100.00 - ROAD GRADE 74.50
ALL FOOTINGS MUST BE APPROVED BY THE ENGINEER BEFORE PLACING CONCRETE
ALL BARS REQUIRING SPLICING TO BE LAPPED NOT LESS THAN 50 DIAMETERS AND
RIGIDLY WIRED TOGETHER
TO BE FURNISHED AT THE SITE BY THE STATE AND PLACED BY THE CONTRACTOR

NET QUANTITIES

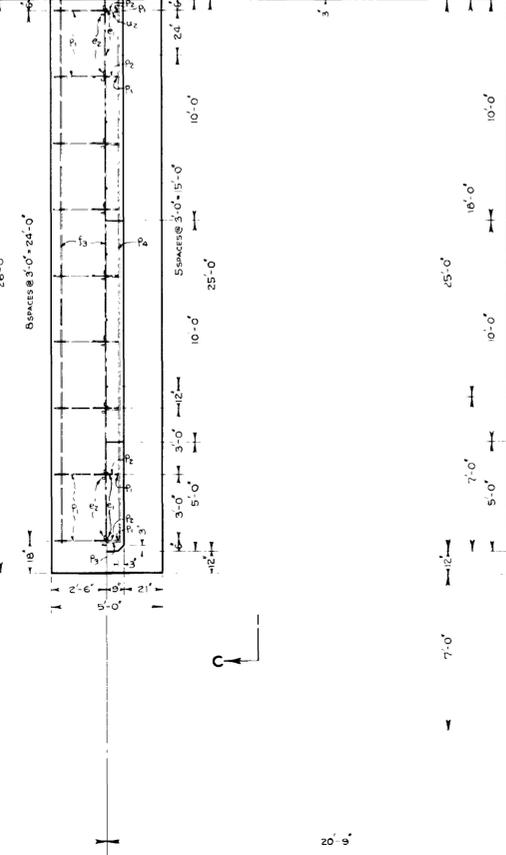
			REVISED QUANTITIES
BRIDGE EARTH EXCAVATION BELOW 90.00	386	CU YDS	390
BRIDGE EARTH EXCAVATION ABOVE 90.00	62	CU YDS	
TOTAL BRIDGE EARTH EXCAVATION		448	452
MASONRY EXCAVATION		77	
FOUNDATION PILING (APPROXIMATE LENGTH = 30')		164	REQR'D
CLASS 'A' CONCRETE BELOW 90.00	281.28	CU YDS	288.47
CLASS 'A' CONCRETE ABOVE 90.00	376.61	CU YDS	
TOTAL CONCRETE		657.89	665.08
CONCRETE SURFACE FINISH (RUBBED)		2540	SQ FT
GRANULITIC SIDEWALK FINISH		42	SQ YDS
1 1/2" CUT & BENT REINFORCEMENT BARS	27	LN FT	144
1" CUT & BENT REINFORCEMENT BARS	5625	LN FT	15019
1/2" CUT & BENT REINFORCEMENT BARS	1684	LN FT	3442
3/4" CUT & BENT REINFORCEMENT BARS	10806	LN FT	1-231
5/8" CUT & BENT REINFORCEMENT BARS	2207	LN FT	1876
3/8" CUT & BENT REINFORCEMENT BARS	3309	LN FT	2211
TOTAL CUT & BENT REINFORCEMENT BARS			42113
60# RAILS (24' LONG)		90	REQR'D
GALVANIZED SPLICE BARS (16' LONG)		4	REQR'D
WIRE MESH		67.4	SQ FT
10 GAUGE ZINC		45	LBS
26 GAUGE SHEET METAL		166	LBS
INVENT RETAINING PLATES		869	LBS
3" x 3" BAR PIPE RAIL		84	LN FT
TILE PLATES (4' x 6')		4	REQR'D
3" V.C. PIPE		8	LN FT
3" PRE-MOULDED JOINT FILLER		83	SQ FT
WATERPROOFING (MEMBRANE) INCLUDING 3/4" MORTAR PROTECTIVE COURSE		211	SQ YDS
WATERPROOFING (MOPPFD)		42	SQ YDS
BRIDGE PAVEMENT (PRE-MIXED BITUMINOUS CONCRETE)		198	SQ YDS
RACKFILL		186	CU YDS
ROADWAY EXCAVATION		326	CU YDS
EXCAVATION TO BE DEPOSITED AS FILL	590	CU YDS	194
FILL (FILL IN EXCESS OF ABOVE)	11000	CU YDS	12312
TOTAL FILL		11590	CU YDS
8" GRAVEL ROADWAY WITH TAR SURFACE TREATMENT	9814	SQ YDS	11100
STANDARD WOODEN GUARD RAIL	5355	SQ YDS	5010
RIP RAP	1648	LN FT	655
		52 YDS	663.19

DESIGN DATA

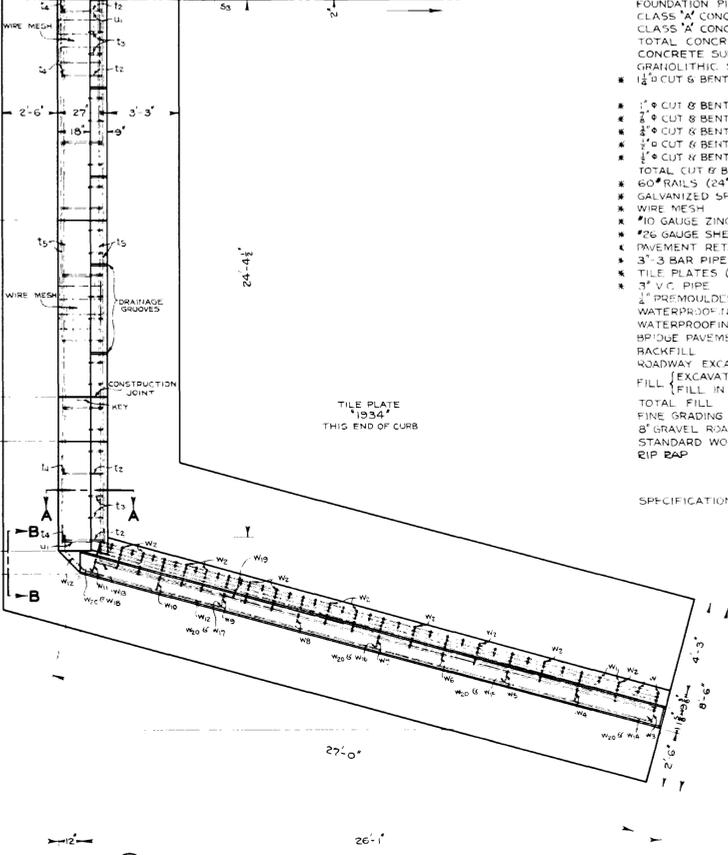
SPECIFICATIONS - A.A.S.H.O. 1931 H-20 LIVE LOADING



QUARTER PLAN OF FOOTINGS (48)



QUARTER PLAN AT BOTTOM OF SLAB (48)



QUARTER PLAN AT TOP OF SLAB (48)

STATE BOARD OF PUBLIC ROADS
BRIDGE DEPARTMENT
NEWMAN AVENUE BRIDGE
EAST PROVIDENCE, R.I.

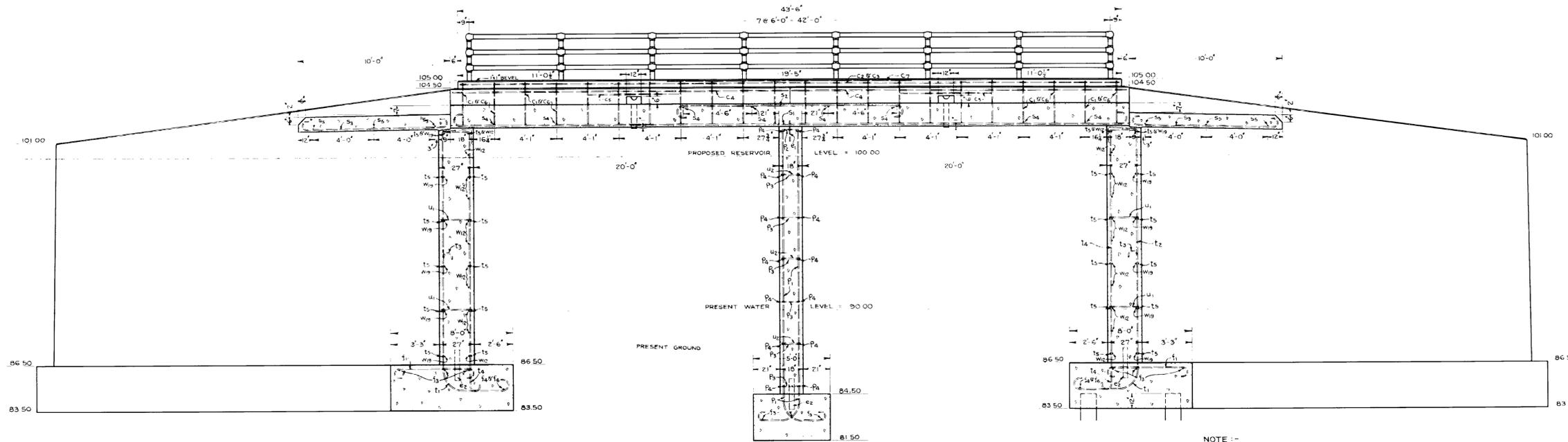
CONSTRUCTION PLAN

DRAWN BY P.S.C. TRACED BY L.F.D. CHECKED BY H.G.K.
FINAL DATE PASSED BY
JULY 20, 1934
JULY 24, 1934
MAY 6, 1935
APPROVED
CHIEF ENGINEER

SCALE
RECIPROCAL
96
REDUCTION

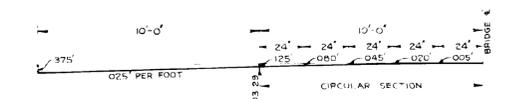
SCALE
RECIPROCAL
48
REDUCTION

PRINT NO. []
PRINTED []
ISSUED TO []

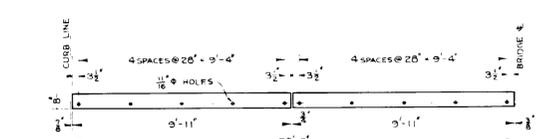


SECTIONAL ELEVATION AT FACE OF CURB (48)

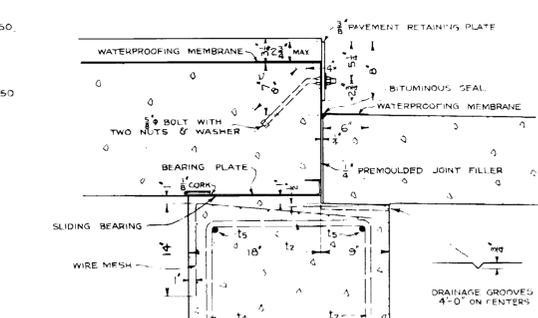
NOTE: PILING IN EAST ABUTMENT ONLY



ORDINATES TO DECK PAVEMENT GRADES



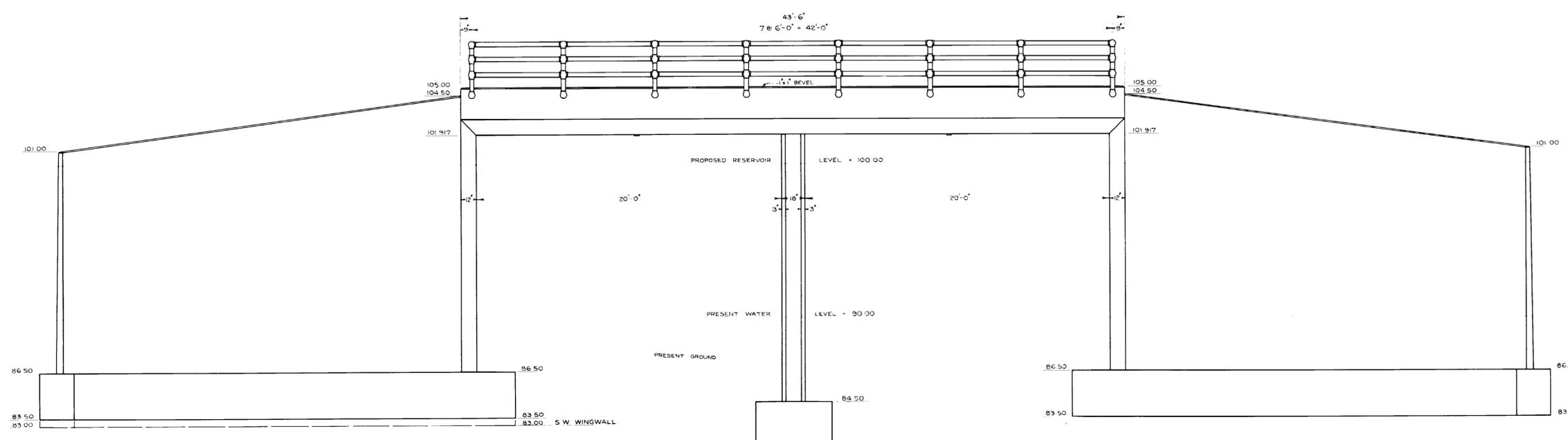
HALF ELEVATION OF PAVEMENT RETAINING PLATES (48)



DETAIL AT END OF SLAB (12)



BEARING PLATES (12)



ELEVATION (48)

TYPICAL SECTION THRU WINGWALL (48)

SCALE RECIPROCAL
48
REDUCTION

SCALE RECIPROCAL
12
REDUCTION

STATE BOARD OF PUBLIC ROADS
BRIDGE DEPARTMENT
NEWMAN AVENUE BRIDGE
EAST PROVIDENCE, R.I.

ELEVATIONS

DRAWN BY P.S.C. TRACED BY L.F.D. CHECKED BY H.C.K.
FINAL DATE JULY 20, 1934 PASSED BY *Daniel C. Conzill* BRIDGE ENGINEER
MAY 6, 1935 APPROVED *A. J. Henderson* CHIEF ENGINEER

Date: 10/20/2016

901.9901 Steel Beam Bridge Connection Approach End
901.9902 Steel Beam Bridge Connection Trailing End
920.9901 Placed Rockfill (R-6, R-7, R-8) Slope Edge

JS-74
JS-74
JS-75

**JOB SPECIFIC
R.I. CONTRACT NO. 2016-CB-051**

**CODE 800.9901
NEWMAN AVENUE BRIDGE NO. 224 BRIDGE STRUCTURE**

DESCRIPTION: Except for the excluded items of work indicated below, the work under this item shall consist of constructing Newman Avenue Bridge No. 224, in its entirety. This shall comprise all work pertaining to the construction of superstructure and substructure as mentioned below. All of the above work shall be complete in place and accepted in accordance with the Contract Documents except that in the Method of Measurement and the Basis of Payment will be in accordance with these Special Provisions.

Superstructure: All the components above the beam seats, all the bridge bearings, the roadway bridge joints (sawcut and seal joints), the end posts, bridge deck, bridge sidewalks, prestressed concrete box beams, galvanized reinforcing bars, mechanical reinforcement bar splicers, steel bridge rail, bridge identification signs, granite identification tablets, cold applied liquid membrane waterproofing and all embedded or attached components. All the exposed surfaces of concrete including exterior face of fascia beams from end post to end post shall receive a rubbed finish in accordance with the RIDOT standard specifications.

Substructure: All the components from the bottom of the new pile cap up to the top of the backwalls and Wingwalls inclusive of any and all embedded or attached components. The work under this item shall also include all the work pertaining to the construction of the approach slabs, wall stems, integral abutment stems, 3' sleeper slab, temporary barrier cast in place footing, drill and grout dowels for cast in place footing, crushed stone under pile caps and repairs to the Wingwalls.

Excluded Items of Work: The work pertaining to the following items of work are excluded from this lump sum item and instead will be measured and be paid for separately under their own appropriate unit bid or lump sum items as listed in the proposal: demolition of the superstructure, partial removal of the substructure, various classes of excavation, temporary earth support system, hot mix asphalt – modified class 9.5 and 12.5, micropile installation, dewatering and other items as listed in the Proposal.

CONSTRUCTION METHODS: The Contractor is responsible for protecting and maintaining traffic on Newman Avenue during his operations that do not require a temporary detour. Notification from the Engineer and City of East Providence must be received prior to any proposed temporary detour. Any temporary detour shall be in accordance with the Plans, as specified by the City of East Providence or the Engineer.

METHOD OF MEASUREMENT: This item does not require a measurement for payment.

BASIS OF PAYMENT: "NEWMAN AVENUE BRIDGE NO. 224 BRIDGE STRUCTURE" will be paid for at the contract lump sum price as listed in the Proposal. The price so-stated shall constitute full and complete compensation for all labor, materials, tools, equipment and all other

Date: 10/20/2016

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incidentals required to complete the construction of the Newman Avenue Bridge No. 224 as described above under "DESCRIPTION", and elsewhere in the Contract Documents, complete in place and accepted by the Engineer.

JOB SPECIFIC
R.I. CONTRACT NO. 2016-CB-051

CODE 926.9901

ANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL

DESCRIPTION: This work consists of providing anchored barrier for temporary traffic control at locations indicated on the Plans or as directed by the Engineer, all in accordance with these specifications. The work shall also include furnishing and installing all hardware and materials necessary to attach the barriers at locations indicated on the Plans and filling the holes after the barriers have been removed.

MATERIALS: All materials used whether steel, concrete, or reinforcing shall conform to the relevant portions of the Rhode Island Standard Specifications for Road and Bridge Construction, 2004 Edition, Amended 2010 and in accordance with the recommendations of the manufacturer and shall be submitted to the Engineer for approval.

It is the contractor's responsibility to design the barrier and its anchoring system to meet all the requirements of the NCHRP 350 Crash Test Barrier. Barrier or anchorage system that does not meet the requirements of the NCHRP 350 Crash Test will not be allowed on the bridge.

The design shall be based on the latest Edition of the American Association of State Highway and Transportation Officials (AASHTO LRFD) and shall meet the requirements of the NCHRP 350 Crash Test Barrier for TL-3 loading.

The details of the proposed bolted anchorage system and all installation and removal procedures shall be in accordance with the recommendations of the manufacturer, and shall be submitted to the Engineer for approval.

Field tests shall be performed to verify the effectiveness of the barrier anchorage system to the existing and proposed bridge. If the desired strength is not achieved, the Contractor must adjust the type of anchorage system to meet the test requirement. All testing shall be performed by the Contractor and is incidental to the work under this item. The testing equipment used and the locations and details of the test bolts shall be submitted to the Engineer for approval. The Contractor shall perform this test as soon as possible in order to eliminate delays in construction due to the approval process.

CONSTRUCTION METHODS: The construction of barriers shall be in accordance with the recommendations of the manufacturer and shall be submitted to the Engineer for approval. Barriers used for temporary traffic control shall be placed on the pavement at locations indicated on the Plans or as directed by the Engineer. Upon completion of the work the Contractor shall remove said barrier units from the project site.

Care shall be exercised during transportation, storing, hoisting and handling of the units to
Addendum No.1

prevent cracking or damage. No damaged units or units that have markings painted on them from previous work-sites shall be installed. Unit showing defects or damage as a result of the contractor's operations or negligence shall be removed and replaced or repaired by the Contractor at no additional cost to the state.

The contractor shall ensure that the deck reinforcement is not damaged during the installation of the proposed barrier anchor bolts. Damage to the deck reinforcement that occurs during the course of the Contractor's operations shall be repaired to the satisfaction of the Engineer, at no additional cost to the State. In addition, a maximum of ½" drilling into the proposed concrete deck beams will be allowed.

Damage to the pavement, bridge deck, and concrete deck beams caused by the anchored barrier for temporary traffic control during installation, while in service, and/or during removal shall be repaired as directed by the Engineer at the Contractor's expense.

METHOD OF MEASUREMENT: "ANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL" will be measured in linear feet of continuous runs of those units actually placed in accordance with the Plans and/or as directed by the Engineer.

BASIS OF PAYMENT: The accepted quantity of "ANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL" will be paid for at the contract unit price per linear foot as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, and equipment, including placing the units at their initial locations and for eventually removing said units from their final locations, and for all other incidentals required to finish the work, complete and accepted by the Engineer.

The contractor shall be paid 90 percent of the contract unit price when the barrier units are in place. The remaining 10 percent of the contract unit price will be paid when the barrier units have been removed from the project.

Payment for removing barrier units from their initial locations and for hauling, maintaining, transporting, and relocating said barrier units to storage or to subsequent intermediate locations at which they are to be used for traffic control is not included in this section but is included under SECTION 927.9901; REMOVE AND RELOCATE ANCHORED BARRIER FOR TEMPORARY TRAFFIC CONTROL, of these specifications.

**JOB SPECIFIC
R.I. CONTRACT NO. 2016-CB-051**

**CODE 901.9901
STEEL BEAM BRIDGE CONNECTION APPROACH END
CODE 901.9902
STEEL BEAM BRIDGE CONNECTION TRAILING END**

DESCRIPTION. This work consists of providing and installing steel beam guard rail bridge connections (approaching and trailing) at the locations indicated on the Plans or as directed by the Engineer, all in accordance with these Specifications.

MATERIALS. Materials shall conform to the requirements of section 901 Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction. Nine (9) foot posts shall be used on the northwest connection (sta. 12+50± Lt.) to mitigate for the short bench behind the guardrail.

CONSTRUCTION METHODS.

Construction shall be in accordance with section 901 of the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction and the applicable Rhode Island Department of Transportation Standard Highway and Bridge Details

METHOD OF MEASUREMENT.

Item Code 901.9901 Steel Beam Bridge Connection Approach End and Item Code 901.9902 Steel Beam Bridge Connection Trailing End shall be measured for payment by the unit each in accordance with section 901.04.3 actually furnished and installed.

BASIS OF PAYMENT.

Item Code 901.9901 Steel Beam Bridge Connection Approach End and Item Code 901.9902 Steel Beam Bridge Connection Trailing End will be paid for by the unit each in accordance with section 901.05.3 actually furnished and installed. The prices so-stated constitute full and complete compensation for all labor, materials, including nine (9) foot posts on the northwest connection, and equipment, including hardware, nuts, bolts, washers, splice plates, and all other incidentals required to finish the work, complete in place and accepted by the Engineer.

Addendum No. 1

**JOB SPECIFIC
R.I. CONTRACT NO. 2016-CB-051**

**CODE 920.9901
PLACED ROCKFILL (R-6, R-7, R-8) SLOPE EDGE**

DESCRIPTION. This work consists of providing and installing placed rockfill (R-6, R-7, R-8) on prepared surfaces to stabilize roadway embankments at the locations indicated on the Plans or as directed by the Engineer, all in accordance with these Specifications.

MATERIALS. Materials shall conform to the requirements of **Subsections M.10.03, M.10.03.1 and M.10.03.2; Riprap, Bedding for Riprap, and Stone for Riprap**, respectively, of these Specifications. The stone for the rockfill shall conform to R-6, R-7 and R-8 designations.

Filter fabric shall be a material suitable for erosion control applications and shall be one of those included on the Department's Approved Materials List.

CONSTRUCTION METHODS.

Construction shall be in accordance with section 920 of the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction.

The rockfill (riprap) shall be placed in conjunction with the construction of the embankment. The elapsed time between construction of the embankment and the placement of the riprap shall be limited to that required to permit the orderly construction of the embankment and to preclude the mixing of embankment and riprap materials. The Contractor shall maintain the riprap protection until accepted, and any material displaced by any cause shall be replaced to the lines and grades shown on the Plans at no additional cost to the State.

Filter Fabric shall be installed per section 920.03.2.

- a. A minimum overlap width of two feet must be used.
- b. Anchor pins must be installed immediately after placement of each section in order to protect from wind uplift.
- c. The fabric must be toed-in at the top and toe-in or toe-wrapped at the bottom.

Bedding for Rockfill shall be placed in accordance with section 920.03.3.

Addendum No. 1

Rockfill: Stones for rockfill shall be placed on a prepared slope in a pattern that contains minimum voids. The top surface of the riprap shall conform to a true and even plane with a tolerance of plus or minus 4 inches. Joints shall be broken as much as practicable, and joint openings to underlying soil shall be avoided by careful arrangement of stone sizes and the chocking of the openings with smaller stones. Larger stones shall be placed near the base of the rockfill. The entire fill shall be wrapped in filter fabric per the detail and as specified above.

METHOD OF MEASUREMENT.

Item Code 920.9901 Placed Rockfill (R-6, R-7, R-8) Slope Edge shall be measured for payment by the number of tons as measured by the actual scale weight, in tons, of the material actually placed.

BASIS OF PAYMENT.

Item Code 920.9901 Placed Rockfill (R-6, R-7, R-8) Slope Edge of the various types and configurations indicated on the Plans will be paid for at their respective contract unit prices per ton as listed in the Proposal. The prices so-stated constitute full and complete compensation for all labor, materials, and equipment, including excavation for rockfill and bedding, preparation of subgrade, hauling and placing the material, sequencing the placement with the road embankment construction, and all other incidentals required to finish the work, complete and accepted by the Engineer.

Rockfill placed outside the specified limits will not be paid for, and the Contractor may be required to remove and dispose of the excess riprap at no additional cost to the State.

Bedding and Filter Fabric shall be paid for separately under items codes 920.0135 and 920.0200 respectively.

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201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	1
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202.0300	UNCLASSIFIED EXCAVATION	2
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202.0700	COMMON BORROW	2
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203.0700	PERVIOUS FILL	3
203.9901	PEASTONE FILL UNDER STRUCTURES	3
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209.9901	CATCH BASIN INLET PROTECTION	5
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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
009	202.0700	Cont. STA 110+00 - 115+50		123.00	0004	01
Item 202.0700 Total:				123.00		
010	203.0400	STRUCTURAL EXCAVATION UNCLASSIFIED	CY			
		BRIDGE NO. 224				
		EAST ABUTMENT		65.00	0004	01
		WEST ABUTMENT		65.00	0004	01
Item 203.0400 Total:				130.00		
011	203.0420	STRUCTURAL EXCAVATION UNCLASSIFIED	CY			
		WET				
		BRIDGE NO. 224				
		EAST ABUTMENT		60.00	0004	01
		WEST ABUTMENT		60.00	0004	01
Item 203.0420 Total:				120.00		
012	203.0700	PERVIOUS FILL	CY			
		BRIDGE NO. 224				
		EAST ABUTMENT		60.00	0004	01
		WEST ABUTMENT		60.00	0004	01
Item 203.0700 Total:				120.00		
013	203.9901	PEASTONE FILL UNDER STRUCTURES	CY			
		BRIDGE NO. 224				
		EAST ABUTMENT		55.00	0004	01
		WEST ABUTMENT		55.00	0004	01
Item 203.9901 Total:				110.00		
014	204.0100	TRIMMING AND FINE GRADING	SY			
		EAST PROVIDENCE				
		ROUNDUP			0004	01
		EAST PROVIDENCE				
		STA 112+00 - 112+69 LT		35.00		

Distribution of Quantities

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<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
014	204.0100 Cont.	STA 112+24 - 112+69 RT		25.00		
		STA 113+31 - 113+54 LT		6.00		
		STA 113+31 - 115+19 RT		101.00		
		EAST PROVIDENCE (3WRTC)				
		112+56 - 112+59 LT (3WRTC)		0.33	0004	01

Distribution of Quantities

Project Name - Newman Avenue Bridge No. 224 (57D)
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<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
014	204.0100 Cont.	112+56 - 112+59 RT (3WRTC)		0.33	0004	01
		113+36 - 113+39 LT (3WRTC)		0.33	0004	01
		113+36 - 113+39 RT (3WRTC)		0.33	0004	01
		EAST PROVIDENCE (CEMSW)				
		112+56 - 112+64 LT (CEMSW)		4.20	0004	01
		112+56 - 112+64 RT (CEMSW)		4.20	0004	01
		113+36 - 113+44 LT (CEMSW)		4.20	0004	01
		113+36 - 113+44 RT (CEMSW)		4.20	0004	01
		ROUNDING (CEMSW)		0.20	0004	01
		EAST PROVIDENCE (FDPRD)				
		STA 110+00 - 112+50 (FDPRD)		1,278.00	0004	01
		STA 113+50 - 115+50 (FDPRD)		1,095.00	0004	01
		EAST PROVIDENCE (GCQSS)				
		112+55 - 112+61 LT (GCQSS)		0.44	0004	01
		112+55 - 112+61 RT (GCQSS)		0.44	0004	01
		113+39 - 113+45 LT (GCQSS)		0.44	0004	01
		113+39 - 113+45 RT (GCQSS)		0.44	0004	01
		EAST PROVIDENCE (GRCSS)				
		112+50 - 112+61 LT (GRCSS)		0.28	0004	01
		112+50 - 112+61 RT (GRCSS)		0.28	0004	01
		113+39 - 113+50 LT (GRCSS)		0.28	0004	01
		113+39 - 113+50 RT (GRCSS)		0.28	0004	01
		EAST PROVIDENCE (LOAMS)				
		111+05 - 112+00 LT (LOAMS)		39.00	0004	01
		111+45 - 112+38 RT (LOAMS)		40.00	0004	01
		113+50 - 115+50 LT (LOAMS)		96.00	0004	01
		115+10 - 115+50 RT (LOAMS)		11.00	0004	01
		ROUNDING				
		ROUNDING		0.80	0004	01
Item 204.0100 Total:				2,748.00		

015 206.0301 COMPOST FILTER SOCK LF
 EAST PROVIDENCE

Distribution of Quantities

Project Name - Newman Avenue Bridge No. 224 (57D)

Estimate Name - Addendum to Advertising Submittal

R.I. Contract No. - 2016-CB-051

FAP Nos: BRO-0224(003)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
015	206.0301 Cont.	110+00 - 112+69 LT		272.00	0004	01
		110+00 - 112+69 RT		285.00	0004	01
		113+31 - 119+23 LT		584.00	0004	01

Distribution of Quantities

Project Name - Newman Avenue Bridge No. 224 (57D)
 Estimate Name - Addendum to Advertising Submittal
 R.I. Contract No. - 2016-CB-051
 FAP Nos: BRO-0224(003)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
020	213.0100 Cont.	EAST PROVIDENCE				
		111+06 - 112+60 LT		156.00	0004	01
		111+42 - 112+59 RT		117.00	0004	01
		113+40 - 115+50 LT		210.00	0004	01
		113+41 - 115+50 RT		176.00	0004	01
Item 213.0100 Total:				659.00		
021	302.0100	GRAVEL BORROW SUBBASE COURSE	CY			
		EAST PROVIDENCE				
		ROUNDUP		0.16	0004	01
		EAST PROVIDENCE (3WRTC)				
		112+56 - 112+59 LT (3WRTC)		0.14	0004	01
		112+56 - 112+59 RT (3WRTC)		0.14	0004	01
		113+36 - 113+39 LT (3WRTC)		0.14	0004	01
		113+36 - 113+39 RT (3WRTC)		0.14	0004	01
		EAST PROVIDENCE (CEMSW)				
		112+56 - 112+64 LT (CEMSW)		0.93	0004	01
		112+56 - 112+64 RT (CEMSW)		0.93	0004	01
		113+36 - 113+44 LT (CEMSW)		0.93	0004	01
		113+36 - 113+44 RT (CEMSW)		0.93	0004	01
		ROUNDING (CEMSW)		0.04	0004	01
		EAST PROVIDENCE (FDPRD)				
		STA 110+00 - 112+50 (FDPRD)		426.00	0004	01
		STA 113+50 - 115+50 (FDPRD)		365.00	0004	01
		EAST PROVIDENCE (GCQSS)				
		112+55 - 112+61 LT (GCQSS)		0.37	0004	01
		112+55 - 112+61 RT (GCQSS)		0.37	0004	01
		113+39 - 113+45 LT (GCQSS)		0.37	0004	01
		113+39 - 113+45 RT (GCQSS)		0.37	0004	01
		EAST PROVIDENCE (GRCSS)				
		112+50 - 112+61 LT (GRCSS)		0.26	0004	01
		112+50 - 112+61 RT (GRCSS)		0.26	0004	01
		113+39 - 113+50 LT (GRCSS)		0.26	0004	01

Distribution of Quantities

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R.I. Contract No. - 2016-CB-051
FAP Nos: BRO-0224(003)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
021	302.0100	Cont.	113+39 - 113+50 RT (GRCS)	0.26	0004	01

Distribution of Quantities

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 R.I. Contract No. - 2016-CB-051
 FAP Nos: BRO-0224(003)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
021	302.0100	Cont.				
Item 302.0100 Total:				798.00		
022	401.1000	CLASS 19.0 HMA	TON			
		EAST PROVIDENCE				
		EAST PROVIDENCE		0.40	0004	01
		EAST PROVIDENCE (FDPRD)				
		STA 110+00 - 112+50 (FDPRD)		312.15	0004	01
		STA 113+50 - 115+50 (FDPRD)		267.45	0004	01
Item 401.1000 Total:				580.00		
023	401.2100	MODIFIED CLASS 12.5 HMA	TON			
		EAST PROVIDENCE				
		ROUNDUP		1.08	0004	01
		EAST PROVIDENCE (FDPRD)				
		STA 110+00 - 112+50 (FDPRD)		165.26	0004	01
		STA 113+50 - 115+50 (FDPRD)		141.59	0004	01
		EAST PROVIDENCE (MMBPM)				
		115+50-119+23 (MMBPM)		247.37	0004	01
		97+85 - 110+00 (MMBPM)		834.70	0004	01
Item 401.2100 Total:				1,390.00		
024	401.3100	MODIFIED CLASS 9.5 HMA	TON			
		BRIDGE NO. 224				
		STA 112+50 - 113.50		40.00	0004	01
Item 401.3100 Total:				40.00		
025	401.4003	CLASS 4.75 HMA FOR PATCHING	TON			
		EAST PROVIDENCE				
		CONTRACT LIMITS		10.00	0004	01
Item 401.4003 Total:				10.00		
026	403.0300	ASPHALT EMULSION TACK COAT	SY			
		EAST PROVIDENCE (FDPRD)				

Distribution of Quantities

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 R.I. Contract No. - 2016-CB-051
 FAP Nos: BRO-0224(003)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
042	804.9912 Cont.	BRIDGE NO. 224				
		EAST ABUTMENT		9.00	0004	01
		WEST ABUTMENT		9.00	0004	01
Item 804.9912 Total:				18.00		
043	804.9914	MICROPILE LOAD TEST	EACH			
		BRIDGE NO. 224				
		EAST ABUTMENT		1.00	0004	01
		WEST ABUTMENT		1.00	0004	01
Item 804.9914 Total:				2.00		
044	805.9901	TEMPORARY EARTH RETAINING SYSTEMS	LS			
		BRIDGE NO. 224				
		BRIDGE NO. 224		1.00	0004	01
Item 805.9901 Total:				1.00		
045	810.0300	EPOXY COATED BARS GRADE 60	LBS			
		FOREBAY				
		111+67		35.00	0004	01
Item 810.0300 Total:				35.00		
046	819.0800	DRILL AND GROUT REINFORCING DOWELS	EACH			
		BRIDGE NO. 224				
		TEMPORARY PRECAST BARRIER			0004	01
Item 819.0800 Total:					**DELETED**	
047	824.9901	TEMPORARY STEEL TRAFFIC PLATE	LS			
		BRIDGE NO. 224				
		BRIDGE NO. 224		1.00	0004	01
Item 824.9901 Total:				1.00		
S048	901.0193	GUARDRAIL STEEL BEAM SINGLE FACE	LF			
		STANDARD 34.2.0				

Distribution of Quantities

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 R.I. Contract No. - 2016-CB-051
 FAP Nos: BRO-0224(003)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
S048	901.0193 Cont.	EAST PROVIDENCE				
		111+31-112+32 LT		98.00	0004	01
		111+80-112+22 RT		42.50	0004	01
		113+68-115+50 RT		182.00	0004	01
		113+80-115+50 LT		167.00	0004	01
		ROUNDING		6.50	0004	01
Item 901.0193 Total:				496.00		
S049	901.0199	GUARDRAIL END TREATMENT, ENERGY ABSORBING TERMINAL EAST PROVIDENCE	EACH			
		111+43 RT		1.00	0004	01
Item 901.0199 Total:				1.00		
050	905.0110	PORTLAND CEMENT SIDEWALK MONOLITHIC STANDARD 43.1.0 EAST PROVIDENCE	CY			
		ROUNDUP		0.44	0004	01
		EAST PROVIDENCE (CEMSW)				
		112+56 - 112+64 LT (CEMSW)			0004	01
		112+56 - 112+64 RT (CEMSW)			0004	01
		113+36 - 113+44 LT (CEMSW)			0004	01
		113+36 - 113+44 RT (CEMSW)			0004	01
		EAST PROVIDENCE (CEMSW)				
		112+56 - 112+64 LT (CEMSW)		0.46	0004	01
		112+56 - 112+64 RT (CEMSW)		0.46	0004	01
		113+36 - 113+44 LT (CEMSW)		0.46	0004	01
		113+36 - 113+44 RT (CEMSW)		0.46	0004	01
		ROUNDING (CEMSW)		0.02	0004	01
Item 905.0110 Total:				2.30		
051	906.0110	GRANITE CURB, QUARRY SPLIT STRAIGHT, STANDARD 7.3.0	LF			

Distribution of Quantities

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 R.I. Contract No. - 2016-CB-051
 FAP Nos: BRO-0224(003)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
051	906.0110 Cont.	EAST PROVIDENCE (GCQSS)				
		112+55 - 112+61 LT (GCQSS)		8.00	0004	01

Distribution of Quantities

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<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
056	914.5020	FLAGPERSONS - OVERTIME	MHRS			
		EAST PROVIDENCE				
		CONTRACT LIMITS		530.00	0004	01
Item 914.5020 Total:				530.00		
057	920.0040	DUMPED STONE RIPRAP R-3, R-4, R-5	SY			
		STANDARD 8.3.0				
		EAST PROVIDENCE				
		STA 112+00 - 112+69 LT			0004	01
		STA 112+23-113+49		68.00	0004	01
		STA 112+24 - 112+69 RT			0004	01
		STA 112+51-112+77		75.00	0004	01
		STA 113+31 - 113+54 LT			0004	01
		STA 113+31 - 115+19 RT			0004	01
Item 920.0040 Total:				143.00		
058	920.0055	PLACED STONE RIPRAP R-3, R-4, R-5	SY			
		STANDARD 8.3.0				
		EAST PROVIDENCE				
		FOREBAY		15.00	0004	01
Item 920.0055 Total:				15.00		
059	920.0135	BEDDING FOR RIPRAP FS-2 STANDARD	SY			
		8.3.0				
		EAST PROVIDENCE				
		112+51-112+77		75.00	0004	01
		113+23-113+49		68.00	0004	01
		STA 112+00-112+51 LT		30.00	0004	01
		STA 112+24-112+51 RT		19.00	0004	01
		STA 112+67 - 112+77			0004	01
		STA 113+24 - 113+33			0004	01
		STA 113+49-113+54 LT		2.00	0004	01
		STA113+49-115+19 RT		96.00	0004	01

Distribution of Quantities

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R.I. Contract No. - 2016-CB-051
FAP Nos: BRO-0224(003)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
059	920.0135	Cont.				
Item 920.0135 Total:				290.00		

Distribution of Quantities

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 R.I. Contract No. - 2016-CB-051
 FAP Nos: BRO-0224(003)

<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
060	920.0200	FILTER FABRIC FOR RIP-RAP	SY			
		EAST PROVIDENCE				
		STA 112+00 - 112+69 LT			0004	01
		STA 112+24 - 112+69 RT			0004	01
		STA 113+31 - 113+54 LT			0004	01
		STA 113+31 - 115+19 RT			0004	01
		EAST PROVIDENCE				
		112+51-112+77		75.00		
		113+23-113+49		68.00		
		AREA FOR OVERLAP AROUND		800.00		
		STA 112+00-112+51 LT		30.00		
		STA 112+24-112+51 RT		19.00		
		STA 113+49-113+54 LT		2.00		
		STA113+49-115+19 RT		96.00		
		Item 920.0200 Total:		1,090.00		
061	922.0100	TEMPORARY CONSTRUCTION SIGNS	SF			
		STANDARD 29.1.0 AND 27.1.1				
		EAST PROVIDENCE				
		CONTRACT LIMITS		400.00	0004	01
		Item 922.0100 Total:		400.00		
062	923.0105	DRUM BARRICADE STANDARD 26.2.0	BDAY			
		EAST PROVIDENCE				
		CONTRACT LIMITS		8,000.00	0004	01
		Item 923.0105 Total:		8,000.00		
063	923.0125	PLASTIC PIPE TYPE III BARRICADE	EACH			
		STANDARD 26.3.1				
		EAST PROVIDENCE				
		FOR BRIDGE CLOSURE		6.00	0004	01
		Item 923.0125 Total:		6.00		

Distribution of Quantities

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 R.I. Contract No. - 2016-CB-051
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<u>Item No.</u>	<u>Item Code</u>	<u>Description</u>	<u>UM</u>	<u>Qty.</u>	<u>Pay Code</u>	<u>Seq. No.</u>
064	923.0200	FLUORESCENT TRAFFIC CONES STANDARD	EACH			
		26.1.0				
		EAST PROVIDENCE				
		CONTRACT LIMITS		96.00	0004	01
		ROUNDUP		4.00	0004	01
Item 923.0200 Total:				100.00		
065	925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	PDAY			

Distribution of Quantities

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 FAP Nos: BRO-0224(003)

Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
065	925.0112 Cont.	EAST PROVIDENCE				
		FOR BRIDGE CONSTRUCTION		1,100.00	0004	01
		FOR DETOUR		150.00	0004	01
Item 925.0112 Total:				1,250.00		
066	926.0140	REFLECTIVE DELINEATORS FOR	EACH			
		TEMPORARY CONCRETE BARRIERS				
		EAST PROVIDENCE				
		CONTRACT LIMITS		15.00	0004	01
Item 926.0140 Total:				15.00		
067	926.9901	ANCHORED BARRIER FOR TEMPORARY	LF			
		TRAFFIC CONTROL				
		BRIDGE NO. 224				
		BRIDGE NO. 224		100.00	0004	01
Item 926.9901 Total:				100.00		
068	927.9901	REMOVE AND RELOCATE ANCHORED	LF			
		BARRIER FOR TEMPORARY TRAFFIC				
		CONTROL				
		BRIDGE NO. 224				
		BRIDGE NO. 224		100.00	0004	01
Item 927.9901 Total:				100.00		
069	929.0110	FIELD OFFICE	PMO			
		EAST PROVIDENCE				
		CONTRACT LIMITS		18.00	0004	01
Item 929.0110 Total:				18.00		
070	931.0110	CLEANING AND SWEEPING PAVEMENT	HSY			
		EAST PROVIDENCE				
		ROUND-UP		0.59	0004	01
		EAST PROVIDENCE (FDPRD)				

Distribution of Quantities

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
089	T20.2014 Cont.	100+26 - 101+74		296.00	0004	01
		102+02 - 104+76		550.00	0004	01
		105+26 - 119+23		2,794.00	0004	01
		97+85 - 98+94		218.00	0004	01
		99+20 - 99+86		130.00	0004	01
		ROUNDUP		12.00	0004	01
Item T20.2014 Total:				4,000.00		
090	901.0151	TERMINAL END SECTION SINGLE FACE	EACH			
		STANDARD 34.3.2				
		111+29 LT				
		111+29 LT		1.00	0004	01
Item 901.0151 Total:				1.00		
091	901.9901	STEEL BEAM BRIDGE CONNECTION	EACH			
		APPROACH END				
		BRIDGE				
		BRIDGE		2.00	0004	01
Item 901.9901 Total:				2.00		
092	901.9902	STEEL BEAM BRIDGE CONNECTION	EACH			
		TRAILING END				
		BRIDGE				
		BRIDGE		2.00	0004	01
Item 901.9902 Total:				2.00		
093	916.0600	SHOCK ABSORBING BARRIER MODULES	GRP			
		BRIDGE 224				
		BRIDGE 224		2.00	0004	01
Item 916.0600 Total:				2.00		
094	916.0650	REMOVE, RELOCATE AND RESET SHOCK	GRP			
		ABSORBING BARRIER MODULES				

Distribution of Quantities

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
094	916.0650 Cont.	BRIDGE 224				
		BRIDGE 224		4.00	0004	01
Item 916.0650 Total:				4.00		
095	920.9901	PLACED ROCKFILL (R-6, R-7, R-8)	TON			
		SLOPE EDGE				
		EAST PROVIDENCE				
		LEFT		29.50		
		RIGHT		102.00		
		ROUNDING		0.50		
Item 920.9901 Total:				132.00		
096	926.0121	UNANCHORED PRECAST CONCRETE	LF			
		BARRIER FOR TEMPORARY TRAFFIC				
		CONTROL STANDARD 40.5.0				
		STAGE CONSTRUCTION				
		STAGE CONSTRUCTION		430.00	0004	01
Item 926.0121 Total:				430.00		