

February 14, 2012

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2011-CH-108
FEDERAL-AID PROJECT NO. FAP Nos: NHSG-RESF(222), NHS-RESF(221)

Improvements to Route 138

RI Route 138 between US Rte 1 and the western end of the Jamestown Bridge including the RI Route 1A on and off Ramps.

CITY/TOWN OF North Kingstown

COUNTY OF WASHINGTON

NOTICE TO PROSPECTIVE BIDDERS

ADDENDUM NO. 2 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. 9 Typical Details 2

Delete Sheet No. 9 in its entirety and replace with revised Sheet No. 9 (R-1) attached to this Addendum No. 2. For the Expansion Joint Detail, the micro milling and overlay depth have been revised and a note regarding paving operations has been added.

2. Sheet No. 65 Signing and Striping Plan No. 27

Delete Sheet No. 65 in its entirety and replace with revised Sheet No. 65 (R-1) attached to this Addendum No. 2. The sign reference number for "S27-3" (R5-10d) has been revised to "S27-31"; sign "S27-32" has been added; a callout for disposal of the existing guide sign (Sta. 25+80 +/- LT) has been added.

3. Sheet No. 70 Sign Panel Detail 3

Delete Sheet No. 70 in its entirety and replace with revised Sheet No. 70 (R-1) attached to this Addendum No. 2. Sign "S27-32" has been added.

B. Contract Documents

1. General Provisions – Contract Specific
 - a. Delete Page CS-3 (R-1) in its entirety and replace with revised Page CS-3 (R-2) attached to this Addendum No. 2. The restriction for paving operations on Sunday nights has been removed.
 - b. Delete the Transportation Management Plan Forms 1-3 in their entirety from Appedix A in the General Provisions – Contract Specifics and replace with new Transportation Management Plan forms 1-3 (R-1) attached to this Addendum No. 2.
 - c. Delete General Restrictions (Attachment-1) in its entirety from Appedix A in the General Provisions – Contract Specifics and replace with revised General Restriction (Attachment 1) (R-1) attached to this Addendum No. 2. The restrictions for Route 138 have been revised for eastbound and westbound directions; the restrictions for Route 1A ramps have been revised.
 - d. Insert new Additional Events Requiring Lane Restrictions (Attachment 2) attached to this Addendum 2 to Appendix A in the General Provisions – Contract Specifics. Additional restrictions have been added.

C. Distribution of Quantities

1. Index Page 1 – Index Page 3
Delete Index Page 1 (R-1) to Index Page 3 (R-1) in their entirety and replace with revised Index Page 1 (R-2) to Index Page 3 (R-2) attached to this Addendum No. 2. The index has been revised.
2. Page 4
Delete Page 4 in its entirety and replace with revised Page 4 (R-1) attached to this Addendum No. 2. Item Code 201.0601 has been revised.
3. Page 4a
Insert new Page 4a attached to this Addendum 2. Item Code 201.0601 has been repaginated.
4. Page 5
Delete Page 5 in its entirety and replace with revised Page 5 (R-1) attached to this Addendum No. 2. Item Code 201.0601, 201.0604 and 20.0605 have been revised.
5. Page 5a
Insert new Page 5a attached to this Addendum 2. Item Code 201.0605 has been repaginated.
6. Page 6
Delete Page 6 in its entirety and replace with revised Page 6 (R-1) attached to this Addendum No. 2. Item Code 201.0605 has been revised.
7. Page 48
Delete Page 48 in its entirety and replace with revised Page 48 (R-1) attached to this Addendum No. 2. Item Code 914.5010 and 914.5020 have been revised.

8. Page 60

Delete Page 60 in its entirety and replace with revised Page 60 (R-1) attached to this Addendum No. 2. Item Code T15.0100 has been revised.

9. Page 63

Delete Page 63 in its entirety and replace with revised Page 63 (R-1) attached to this Addendum No. 2. Item Code T16.0100 has been revised.

10. Page 63a

Insert new Page 63a attached to this Addendum 2. Item Code T16.0100 has been repaginated and revised.

11. Page 64

Delete Page 64 in its entirety and replace with revised Page 64 (R-2) attached to this Addendum No. 2. Item Code T16.0300 has been revised.

12. Page 64a

Delete Page 64a in its entirety and replace with revised Page 64a (R-1) attached to this Addendum No. 2. Item Code T17.0202 has been repaginated.

13. Page 74

Delete Page 74 in its entirety and replace with revised Page 74 (R-1) attached to this Addendum No. 2. Item Code 413.9901 has been added.

D. Clarification

1. Gilbert Stuart Bridge

The pavement milling and overlay depth on the Gilbert Stuart Bridge (Bridge No. 898) has been revised from 1" to 1.5" under Addendum No. 1.

E. Contract Dates

1. Phase 1 Completion Date

Phase 1 Completion Date "10/19/2012" has been added to Contract Summary Pages and Proposal Pages.

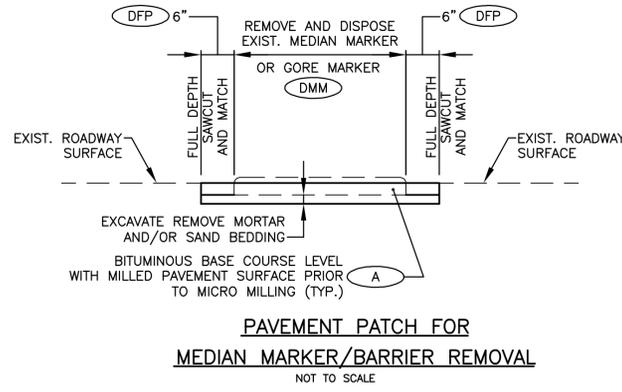
F. Other Contract Changes

1. Contract Limits Description

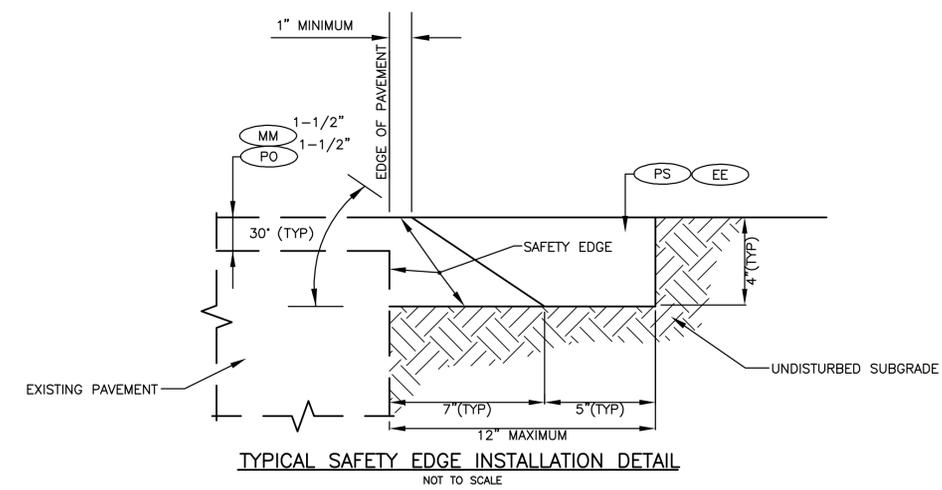
The language for the contract limits description has been revised.



RI Department of Transportation
Chief Engineer

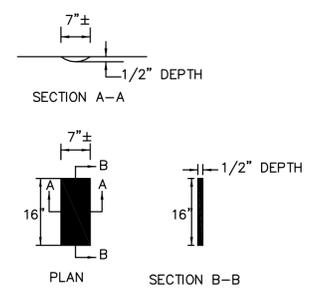


PAVEMENT PATCH FOR MEDIAN MARKER/BARRIER REMOVAL
NOT TO SCALE

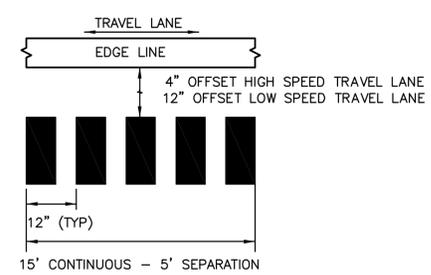


TYPICAL SAFETY EDGE INSTALLATION DETAIL
NOT TO SCALE

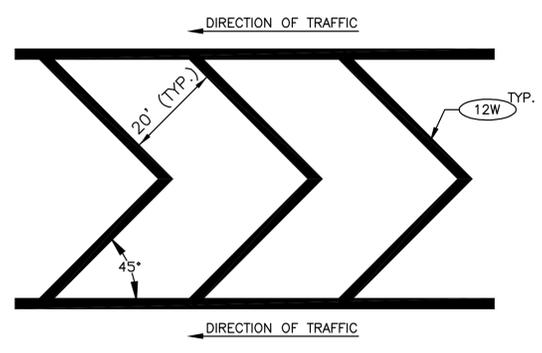
NOTES:
1. RUMBLE STRIP ALIGNMENT SHALL GENERALLY BE STRAIGHT. THE OFFSET MAY BE ADJUSTED TO ACCOMMODATE VARIATIONS IN THE EDGE LINE AS WELL AS TO AVOID EXISTING LONGITUDINAL CONSTRUCTION JOINTS.
2. THE 1/2" DEPTH SHALL GENERALLY APPLY FOR THE ENTIRE 16" LENGTH. SOME VARIATION TO SUIT SHOULDER SLOPE BREAKS MAY BE NECESSARY.



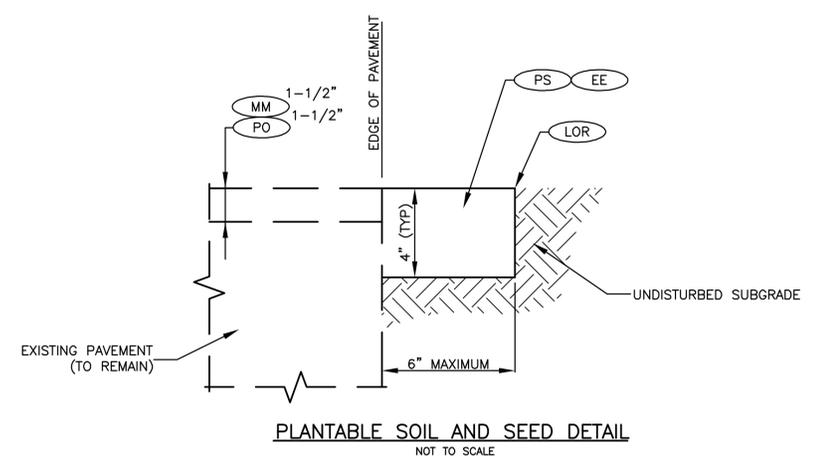
TYPICAL DIMENSIONS



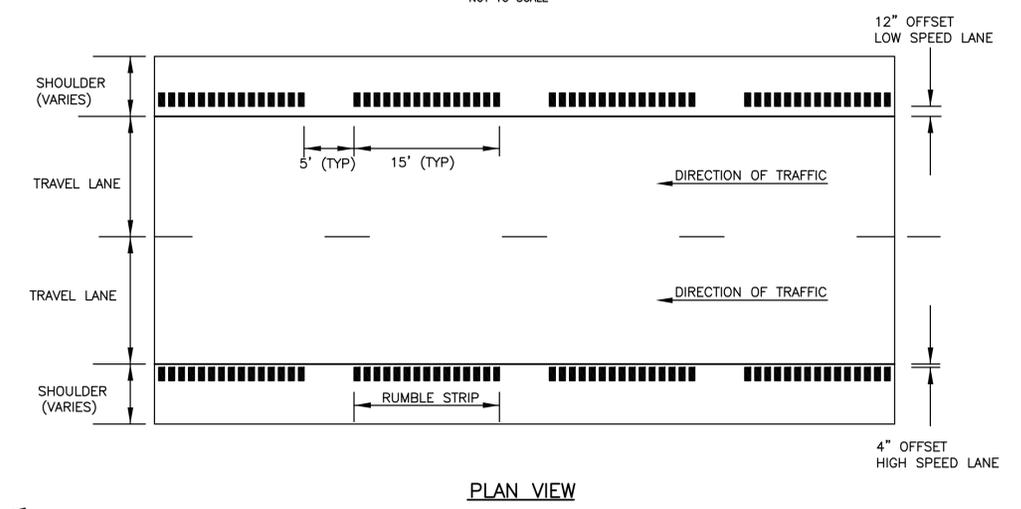
SPACING DETAIL
NOT TO SCALE



TYPICAL GORE LINES
NOT TO SCALE

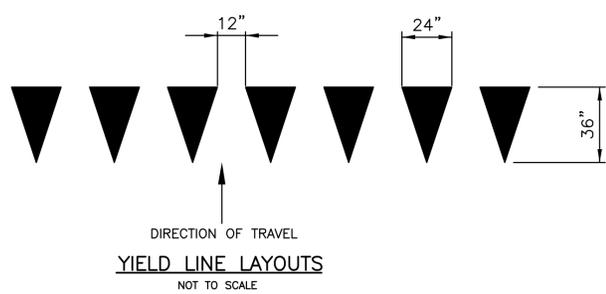


PLANTABLE SOIL AND SEED DETAIL
NOT TO SCALE

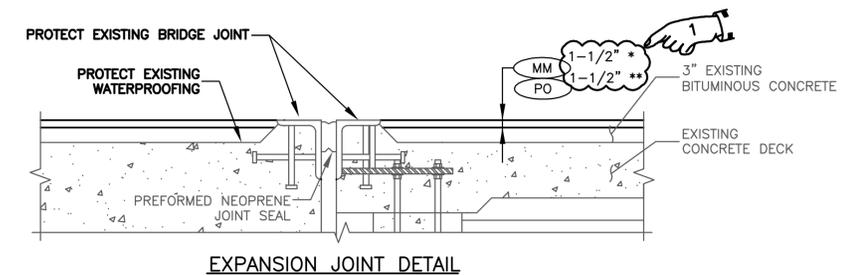


PLAN VIEW

RUMBLE STRIP DETAIL
NOT TO SCALE



YIELD LINE LAYOUTS
NOT TO SCALE



EXPANSION JOINT DETAIL
NOT TO SCALE

NOTE:
TRANSITION RAMPS SHALL BE PROVIDED FOR MICRO MILLING AND PAVING OPERATIONS AT THE GILBERT STUART ROAD BRIDGE. RAMPS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL IMPLEMENT ANY/ALL NECESSARY MEASURES THAT WILL BE REQUIRED NOT TO DAMAGE THE EXISTING BRIDGE JOINTS. THE WORK REQUIRED FOR THE TRANSITION RAMP SHALL BE INCIDENTAL TO ITEM 935.9501 MICRO MILLING.

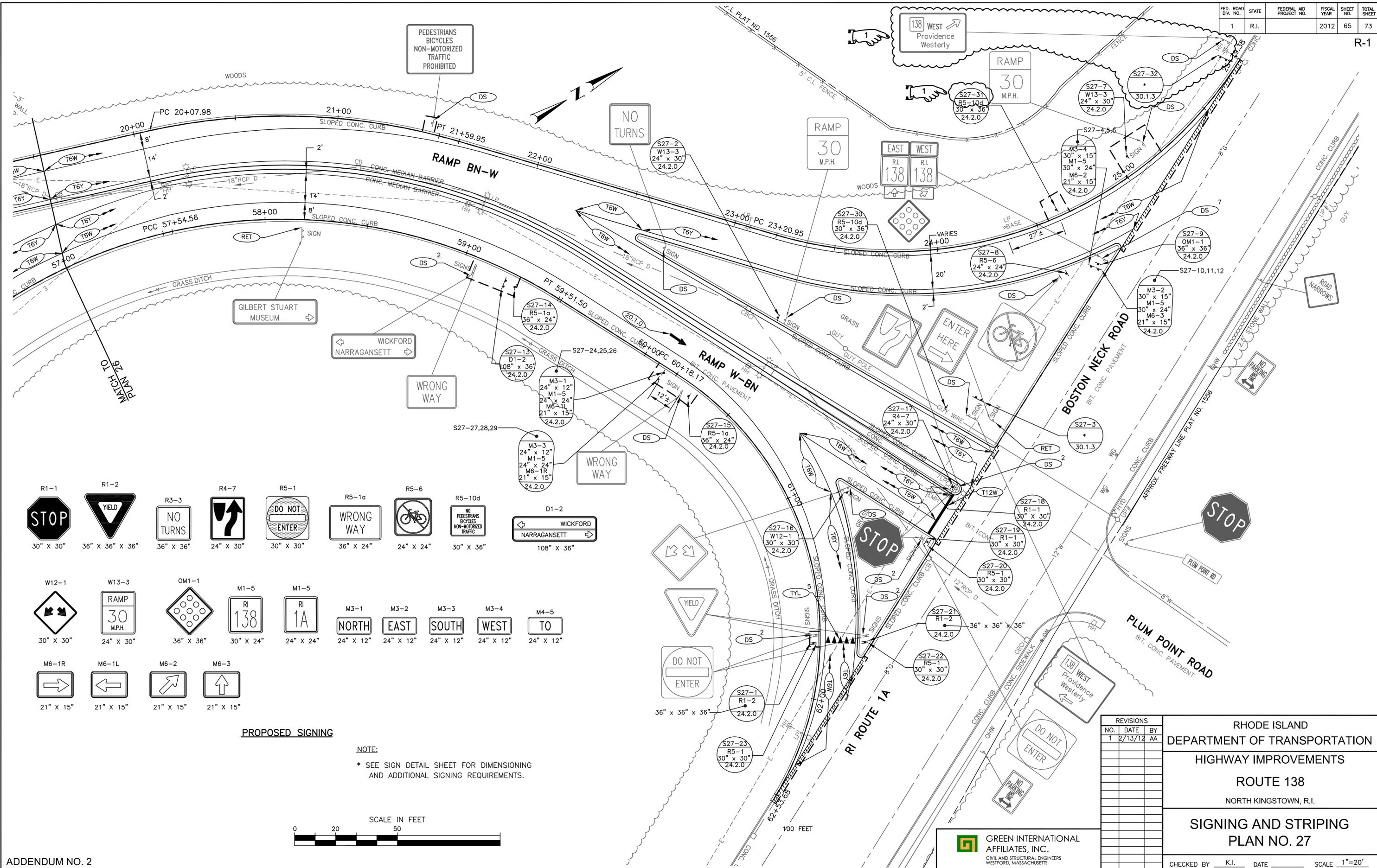
REVISIONS		
NO.	DATE	BY
1	2/13/12	AA

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION
HIGHWAY IMPROVEMENTS
ROUTE 138
NORTH KINGSTOWN, R.I.

TYPICAL DETAILS 2

CHECKED BY K.I. DATE _____ SCALE NTS

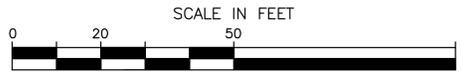
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS
WESTFORD, MASSACHUSETTS



PROPOSED SIGNING

30" X 30"	36" X 36" X 36"	36" X 36"	24" X 30"	30" X 30"	36" X 24"	24" X 24"	30" X 36"	108" X 36"	
30" X 30"	24" X 30"	36" X 36"	30" X 24"	24" X 24"	24" X 12"	24" X 12"	24" X 12"	24" X 12"	24" X 12"
21" X 15"	21" X 15"	21" X 15"	21" X 15"						

NOTE:
 * SEE SIGN DETAIL SHEET FOR DIMENSIONING AND ADDITIONAL SIGNING REQUIREMENTS.



REVISIONS		
NO.	DATE	BY
1	2/13/12	AA

RHODE ISLAND
 DEPARTMENT OF TRANSPORTATION
 HIGHWAY IMPROVEMENTS
 ROUTE 138
 NORTH KINGSTOWN, R.I.

**SIGNING AND STRIPING
 PLAN NO. 27**

CHECKED BY K.I. DATE _____ SCALE 1"=20'

GREEN INTERNATIONAL AFFILIATES, INC.
 CIVIL AND STRUCTURAL ENGINEERS
 WESTFORD, MASSACHUSETTS

F:\Projects\2005\2520\2520.009 - Route 138.dwg Current Design\0165W_V1_039_SIGNING AND STRIPING PLANS.dwg Printed: 2/13/2012 4:19 PM

6. SEQUENCE OF CONSTRUCTION/MAINTENANCE AND MOVEMENT OF TRAFFIC:

A. Action Required by Contractor:

Approval of the work sequence and time schedule is required before the start of all construction or other work associated with this contract. The proposed construction and time schedule must consider and address the safe vehicle passage through the project.

The Contractor shall be responsible for coordinating with the Town of North Kingstown.

During pavement removal operations, no over breakage into existing operational travel lanes will be allowed.

The paving of all ramps must be completed prior to the main line paving so as to not track tack coat onto the new main line pavement.

Paving operations are restricted to night time hours only, between 8 PM and 6 AM. The cost of the work zone lighting required for nighttime operations shall be incidental to the contract in accordance with Section T.22 Lighting for Night Work Operations in the Standard Specifications. No separate payment will be made for lighting of the work zone during nighttime operation.

All deviations from the requirements stated here or detailed in the plans, as well as all deviation from the approved construction sequence and time schedule, must be submitted to the Engineer in writing for approval as required in the R.I. Standard Specifications for Road and Bridge Construction.

Locations of surface features of utilities shown on the plans are approximate. The Contractor shall check and verify the exact location of all existing utilities, both underground and overhead, with Dig Safe. The cost to repair all damages to utilities shall be the Contractor's responsibility.

All work shall be completed in accordance with the Traffic – Related Work Restrictions indicated in the Transportation Management Plan.

The Contractor shall restore complete operation on Route 138 and the RI Route 1A on and off-ramps by the appropriate time as stated in the TMP.

Refer to paragraph 17 for additional requirements.

7. CONTRACTOR'S RESPONSIBILITY FOR DAMAGED STORM DRAINS

The Contractor shall use care when working within or in the vicinity of existing drainage structures. All drainage structures, pipes or culverts damaged during the disposal of, cleaning of, installation of, or while making repairs to drainage structures, pipes or culverts, or carrying out all other work on this contract, shall be the Contractor's responsibility. All pipe/culvert damaged by the Contractor while carrying out this contract shall be replaced or repaired by the Contractor to the satisfaction of the Engineer at no additional charge to the State.

PERFORMANCE MONITORING, CHANGES TO TMP, & CONTINGENCIES

The Contractor's TMP Implementation Manager (if identified below) is responsible for keeping the portion of the project being used by public traffic in a condition that (1) safely and adequately accommodates such traffic and (2) is in accordance with the Traffic-Related Work Restrictions, the Temporary Traffic Control Plans, and where appropriate, the other transportation management strategies identified above. The RIDOT TMP Implementation Manager or his/her responsible designee should (1) inspect the project work zones at initial setup, at the start of each subsequent work day, and just prior to extended breaks in the work (e.g., weekends) for conformance with the Temporary Traffic Control Plans, the ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features, and where applicable, the other transportation management strategies identified above and (2) document all work zone-related feedback and complaints that are received from the public.

If at any time (1) a significant deviation from any of the strategies included in the TMP (e.g., the use of an alternate construction sequence) is desired by one or more members of the project implementation team, (2) field observations and/or data suggest that impacts to road users are or will be unacceptable, or (3) one or more performance requirements established in the TMP are not being met in the field, the RIDOT TMP Implementation Manager shall report the situation to his/her supervisor or Division/Section/Unit manager. The supervisor / manager will coordinate with the State Traffic Engineer, the Deputy Chief Engineer, the TMP Implementation Manager(s), the Chief Engineer, and/or other interested parties as appropriate and/or necessary to consider and determine whether revised and/or alternate strategies should be implemented in an effort to lessen the adverse safety and/or mobility impacts of the project. If the supervisor / manager deems that strategy changes should be implemented, the changes shall be documented in a revised version of the TMP and the Deputy Chief Engineer, the State Traffic Engineer, and the Chief Engineer must approve of the revised TMP prior to their implementation.

If a significant deviation from any of the strategies included in the TMP is requested by the Contractor, unless directed otherwise by the RIDOT the Contractor is responsible for preparing and submitting to the RIDOT TMP Implementation Manager appropriate documentation (e.g., design calculations, analysis reports, Temporary Traffic Control Plans, etc.) showing that the requested change(s) are (1) feasible and (2) expected to result in safety and mobility impacts that are no more adverse than the impacts resulting from the strategies already included in the latest approved TMP. The RIDOT will review and consider the submittal(s) as described in the preceding paragraph and will determine whether the changes should be implemented. If the requested changes are approved by the RIDOT, unless otherwise directed by the RIDOT the Contractor shall prepare and submit to the RIDOT TMP Implementation Manager a revised version of the latest approved TMP in both printed and electronic (Microsoft® Excel) format that documents all of the approved changes. Work to implement the changes shall not begin until the Deputy Chief Engineer, the State Traffic Engineer, and the Chief Engineer have approved of the revised TMP.

When unexpected events (e.g., crashes, inclement weather, unforeseen traffic demands, etc.) occur in a project work zone where one or more lanes are closed, the RIDOT TMP Implementation Manager or his/her responsible designee should (1) determine whether or not the lane closure(s) can/should be removed in order to improve traffic operations and/or minimize delays and (2) if deemed appropriate, take action to remove the lane closure(s).

Other Requirements:

TMP APPROVALS

All approvals must be obtained prior to start of work

DEPUTY CHIEF ENGINEER			STATE TRAFFIC ENGINEER			CHIEF ENGINEER		
Signature: <i>Frank Corrao III</i>			Signature: <i>Robert Rocchio</i>			Signature: <i>Kazem Farhoudmand</i>		
Date: <i>2/13/12</i>			Date: <i>2/8/12</i>			Date: <i>2/13/12</i>		
Revision #	Initials	Date	Revision #	Initials	Date	Revision #	Initials	Date

TMP IMPLEMENTATION MANAGERS

Project managers with the primary responsibility & authority for implementation of this TMP

RIDOT	CONTRACTOR (if contract work)
Name: _____	Name: _____
Title: _____	Title: _____
Unit: _____	Company/Unit: _____
Office Phone: _____	Office Phone: _____
Mobile Phone: _____	Mobile Phone: _____
E-Mail: _____	E-Mail: _____

**RIC 2011-CH-108 / Improvements to Route 138
General Restrictions (Attachment 1)**

Location	Time of Day		Day of Week						
	From	To	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Route 138 EASTBOUND	0:00:00	06:00:00	1L	1 L	1 L	1 L	1 L	1 L	ALL
	06:00:00	09:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	09:00:00	15:00:00	ALL	2 L	2 L	2 L	2 L	2 L	ALL
	15:00:00	20:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	20:00:00	0:00:00	1L	1 L	1 L	1 L	1 L	ALL	ALL

Route 138 WESTBOUND	0:00:00	06:00:00	ALL	1 L	1 L	1 L	1 L	1 L	ALL
	06:00:00	09:00:00	ALL						
	09:00:00	15:00:00	ALL	2 L	2 L	2 L	2 L	2 L	ALL
	15:00:00	20:00:00	ALL						
	20:00:00	0:00:00	ALL	1 L	1 L	1 L	1 L	ALL	ALL

Route 1A on/off- ramps (See note 3)	0:00:00	06:00:00	ALL	D*	D*	D*	D*	D*	ALL
	06:00:00	09:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	09:00:00	15:00:00	ALL	1 LR	ALL				
	15:00:00	20:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	20:00:00	22:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	22:00:00	0:00:00	D*	D*	D*	D*	D*	ALL	ALL

LEGEND

ALL	All travel lanes and shoulders shall remain open to traffic.
1 L	A minimum of one 11-foot wide travel lane in each direction shall remain open.
1 LR	A minimum of one 11-foot wide travel lane shall remain open to ramp traffic.
2 L	A minimum of two 11-foot wide travel lanes in each direction shall remain open.
D*	Detour traffic (See note 3)

NOTES

- 1 The set-up and break-down of temporary traffic control devices within a travelled way or shoulder shall be construed as a closure of that travel way or shoulder.
- 2 The provisions noted herein shall not free the Contractor from his responsibility to conduct all work in such a manner that assures the least possible obstruction to traffic.
- 3 Detour indicated above for Route 1A on and off Ramp closures shall be permitted only during milling and paving operations, otherwise all travel lanes and shoulders shall remain open to traffic. The contractor shall not implement more than one ramp detour at a given time.
- 4 The contractor shall provide trafficpersons for all traffic control
- 5 See Attachment 2 for additional events requiring lane restrictions

**RIC 2011-CH-108/ Improvements to Route 138 North Kingstown
Additional Events Requiring Lane Restrictions (Attachment 2)**

In addition, all travel lanes and shoulders in both directions of Route 138 shall remain open to traffic between 20:00 and 24:00 and 0:00 and 06:00 on all of the following days:

America's Cup: Saturday 6/23 at 20:00 through Sunday 7/1 at 06:00
Tall Ships: Friday 7/6 at 20:00 through Monday 7/9 at 06:00
Black Ships: Thursday 7/12 at 20:00 through Sunday 7/15 at 06:00
Folk Festival: Saturday 7/28 at 20:00 through Sunday 7/29 at 06:00
Jazz Festival: Friday 8/3 at 20:00 through Sunday 8/5 at 06:00
Int. Boat Show: Thursday 9/13 at 20:00 through Sunday 9/16 at 06:00

All travel lanes and shoulders in both directions of Route 138 shall remain open at all times for the following events:

Transport of Material's from Quonset to Newport for Americas Cup:	Saturday 6/2 at 0:00 through Sunday 6/10 at 24:00
Transport of Material's from Newport back to Quonset for America's Cup:	Sunday 7/1 at 0:00 through Monday 7/9 at 24:00

All travel lanes and shoulders in the Westbound direction of Route 138 shall remain open to traffic between 20:00 and 24:00 and 0:00 and 06:00 on all of the following days:

Tennis HOF: Monday 7/9 at 20:00 through Sunday 7/15 at 06:00

Table of Contents - Distribution of Quantities

Project Name - Improvements to Route 138

Estimate Name - Addendum 2

R.I. Contract No. - 2011-CH-108

FAP Nos: NHSG-RESF(222), NHS-RESF(221)

ItemCode	Description	Page
201.0402	REMOVE AND DISPOSE CONCRETE CURB	1
201.0407	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE	1
201.0409	REMOVE AND DISPOSE FLEXIBLE PAVEMENT	1
201.0415	REMOVE AND DISPOSE GUARDRAIL AND POST ALL TYPES	1
201.0428	REMOVE AND DISPOSE FRAME AND GRATE OR FRAME AND COVER	2
201.0431	REMOVE AND DISPOSE CONCRETE MEDIAN MARKER	4
201.0601	REMOVE AND DISPOSE GROUND MOUNTED SIGNS	4
201.0604	REMOVE AND DISPOSE GROUND MOUNTED SIGN POSTS	5
201.0605	REMOVE AND DISPOSE GROUND MOUNTED SIGN BASES	5
201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS	6
201.0623	REMOVE AND DISPOSE OVERHEAD SIGN STRUCTURE	8
201.9901	CLEAN PAVED WATERWAYS	8
201.9902	REMOVE AND STOCKPILE FLEXIBLE DELINEATORS	11
201.9903	LOCATE AND ADJUST CATCH BASINS	12
202.0100	EARTH EXCAVATION	12
202.0800	GRAVEL BORROW	13
204.0100	TRIMMING AND FINE GRADING	14
206.9901	COMPOST FILTER SOCK	17
209.0110	BALED HAY CATCH BASIN INLET PROTECTION STANDARD 9.8.0	20
209.9901	FILTER BAG FOR CATCH BASIN	20
212.2000	CLEANING AND MAINTENANCE OF EROSION CONTROLS	24
302.0100	GRAVEL BORROW SUBBASE COURSE	24
401.0100	BITUMINOUS BASE COURSE	24
401.9901	BITUMINOUS ASPHALT FOR MISCELLANEOUS WORK	24
402.0871	DENSE FRICTION COURSE WITH MATERIAL TRANSFER VEHICLE	26
403.0300	ASPHALT EMULSION TACK COAT	27
601.0200	CLASS XX PORTLAND CEMENT CONCRETE	28
702.0513	FRAME AND GRATE STANDARD 6.3.1	28
702.0522	FRAME AND COVER STANDARD 6.2.1	30
702.0840	ALTERNATE TOP COVER ROUND PRECAST MANHOLES AND CATCH BASINS STANDARD 4.7.2	30
704.0100	RECONSTRUCT CATCH BASIN/CORBEL CONES	32
704.0300	RECONSTRUCT CATCH BASIN/VERTICAL WALLS	34
707.1900	ADJUST FRAME & COVER TO GRADE	34
707.2000	ADJUST FRAME AND GRATE TO GRADE	34
708.9040	CLEANING AND FLUSHING PIPE ALL SIZES	36
708.9041	CLEANING CATCH BASINS ALL TYPES AND SIZES	41
708.9042	CLEANING MANHOLES ALL TYPES AND SIZES	43
820.0110	** ITEM DELETED **	43
820.0200	HIGH PRESSURE WATER CLEANING OF CONCRETE SURFACES	44
821.1690	SAW & SEALING JOINTS IN BITUMINOUS CONCRETE PAVEMENT	44
901.0101	GUARDRAIL STEEL BEAM SINGLE FACE EARTH AND ASPHALT	44
901.0111	GUARDRAIL STEEL BEAM DOUBLE FACE EARTH AND ASPHALT	44
901.0151	TERMINAL END SECTION SINGLE FACE STANDARD 34.3.2	45
901.0901	REMOVE AND RESET GUARDRAIL ALL TYPES	45
901.9901	GUARDRAIL END TREATMENT - NON-ENERGY ABSORBING TERMINAL	45
901.9902	GUARDRAIL END TREATMENT - ENERGY ABSORBING TERMINAL	45
901.9903	TENSIONED CABLE GUARDRAIL	46
901.9904	TENSIONED CABLE GUARDRAIL TERMINAL	46
901.9905	STEEL THRIE BEAM GUARDRAIL SINGLE FACE RI STD 34.5.3	46
901.9906	STEEL THRIE BEAM GUARDRAIL DOUBLE FACE RI STD 34.5.4	46
906.0230	CEMENT CONCRETE SLOPE FACE CURB PRECAST STRAIGHT STANDARD 7.2.0	46
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907.0100	WATER FOR DUST CONTROL	47

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Estimate Name - Addendum 2

R.I. Contract No. - 2011-CH-108

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910.9901	CUTTING BITUMINOUS RUMBLE STRIPS	47
914.5010	FLAGPERSONS	48
914.5020	FLAGPERSONS - OVERTIME	48
916.0650	REMOVE, RELOCATE AND RESET SHOCK ABSORBING BARRIER MODULES	48
919.0101	TEST PITS	48
920.0050	PLACED STONE RIPRAP R-1, R-2 STANDARD 8.3.0	49
920.0135	BEDDING FOR RIPRAP FS-2 STANDARD 8.3.0	49
922.0100	TEMPORARY CONSTRUCTION SIGNS STANDARD 29.1.0 AND 27.1.1	49
923.0105	DRUM BARRICADE STANDARD 26.2.0	50
923.0200	FLUORESCENT TRAFFIC CONES STANDARD 26.1.0	50
924.0113	ADVANCE WARNING ARROW PANEL	50
925.0112	PORTABLE CHANGEABLE MESSAGE SIGN	50
928.0800	TRUCK MOUNTED ATTENUATOR WITH TRUCK MOUNTED FLASHING ARROW BOARD	50
929.0100	FIELD OFFICES 240 SQUARE FOOT MINIMUM	50
931.0110	CLEANING AND SWEEPING PAVEMENT	51
932.0100	CUTTING AND MATCHING ASPHALT	51
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932.0210	FULL DEPTH SAWCUT OF BITUMINOUS PAVEMENT AND RIGID BASE	54
935.9901	MICRO MILLING	54
936.0110	MOBILIZATION	55
937.0200	MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION	55
943.0100	TRAINEE MAN-HOURS	55
L01.0104	PLANTABLE SOIL 4 INCHES DEEP	56
L02.0101	GENERAL HIGHWAY SEEDING (TYPE 1)	56
T05.0200	PRECAST TYPE H HEAVY DUTY HANDHOLE STANDARD 18.2.1	57
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005	201.0428 Cont.	STA. 725+53 RT (CBRHA)		1.00	0005	01
		STA. 733+03 RT (CBRHA)		1.00	0005	01
		WB STA. 605+15 RT (CBRHA)		1.00	0005	01
		WB STA. 612+38 RT (CBRHA)		1.00	0005	01
		WB STA. 616+58 RT (CBRHA)		1.00	0005	01
		WB STA. 628+86 LT (CBRHA)		1.00	0005	01
		WB STA. 631+06 LT (CBRHA)		1.00	0005	01
		WB STA. 633+34 LT (CBRHA)		1.00	0005	01
		WB STA. 635+71 LT (CBRHA)		1.00	0005	01
		ROUTE 138 (CBRHB)				
		STA. 730+50 RT (CBRHB)		1.00	0005	01
Item 201.0428 Total:				50.00		
006	201.0431	REMOVE AND DISPOSE CONCRETE MEDIAN MARKER	SY			
		ROUTE 138				
		STA. 699+01 -700+03 LT		105.00	0005	01
		STA. 702+13 -703+13 RT		180.00	0005	01
		STA. 707+60 -708+62 LT		205.00	0005	01
		STA. 709+16 -710+16 RT		96.00	0005	01
		STA. 730+64 -732+05 LT		64.00	0005	01
Item 201.0431 Total:				650.00		
007	201.0601	REMOVE AND DISPOSE GROUND MOUNTED SIGNS	EACH			
		RAMPS				
		BN-E STA. 211+09 RT		1.00	0021	02
		BN-E STA. 212+21 LT		1.00	0021	02
		BN-W STA. 24+05 RT		1.00	0021	02
		BN-W STA. 25+80+/- LT		1.00	0021	02
		ROUTE 138				
		EB STA. 599+32 RT		1.00	0021	02
		STA. 645+80 LT		1.00	0021	02

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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>
007	201.0601 Cont.	STA. 651+99 LT		1.00	0021	02

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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>
007	201.0601 Cont.	STA. 675+98 RT		1.00	0021	02
		STA. 686+99 RT		1.00	0021	02
		STA. 724+03 RT		1.00	0021	02
		WB STA. 636+94 LT		1.00	0021	02
Item 201.0601 Total:				11.00		
008	201.0604	REMOVE AND DISPOSE GROUND MOUNTED	EACH			
		SIGN POSTS				
		RAMPS				
		BN-E STA. 211+09 RT		2.00	0021	02
		BN-E STA. 212+21 LT		2.00	0021	02
		BN-W STA. 24+05 RT		2.00	0021	02
		BN-W STA. 25+80 +/- LT		2.00	0021	02
		ROUTE 138				
		EB STA. 599+32 RT		2.00	0021	02
		STA. 645+80 LT		2.00	0021	02
		STA. 651+99 LT		2.00	0021	02
		STA. 675+98 RT		2.00	0021	02
		STA. 686+99 RT		2.00	0021	02
		STA. 724+03 RT		2.00	0021	02
		WB STA. 636+94 LT		2.00	0021	02
Item 201.0604 Total:				22.00		
009	201.0605	REMOVE AND DISPOSE GROUND MOUNTED	EACH			
		SIGN BASES				
		RAMPS				
		BN-E STA. 211+09 RT		2.00	0021	02
		BN-E STA. 212+21 LT		2.00	0021	02
		BN-W STA. 24+05 RT		2.00	0021	02
		BN-W STA. 25+80 +/- LT		2.00	0021	02
		ROUTE 138				
		EB STA. 599+32 RT		2.00	0021	02
		STA. 645+80 LT		2.00	0021	02

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009	201.0605 Cont.	STA. 651+99 LT		2.00	0021	02
		STA. 675+98 RT		2.00	0021	02

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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>
009	201.0605 Cont.	STA. 686+99 RT		2.00	0021	02
		STA. 724+03 RT		2.00	0021	02
		WB STA. 636+94 LT		2.00	0021	02
Item 201.0605 Total:				22.00		
010	201.0610	REMOVE AND DISPOSE DIRECTIONAL, WARNING, REGULATORY, SERVICE, AND STREET SIGNS RAMPS	EACH			
		BN-E STA. 200+53 LT		1.00	0021	02
		BN-E STA. 201+53 LT		1.00	0021	02
		BN-E STA. 210+79 RT		1.00	0021	02
		BN-E STA. 210+87 LT		1.00	0021	02
		BN-E STA. 211+00 RT		1.00	0021	02
		BN-E STA. 211+08 RT		1.00	0021	02
		BN-E STA. 211+15 RT		2.00	0021	02
		BN-E STA. 211+28 RT		1.00	0021	02
		BN-E STA. 211+41 LT		1.00	0021	02
		BN-W STA. 12+56 RT		1.00	0021	02
		BN-W STA. 21+46 RT		1.00	0021	02
		BN-W STA. 22+72 RT		1.00	0021	02
		BN-W STA. 23+34 RT		1.00	0021	02
		BN-W STA. 23+97 RT		2.00	0021	02
		BN-W STA. 24+03 RT		1.00	0021	02
		BN-W STA. 24+12 RT		1.00	0021	02
		BN-W STA. 24+51 RT		1.00	0021	02
		BN-W STA. 24+73 RT		7.00	0021	02
		BN-W STA. 25+15 LT		1.00	0021	02
		E-BN STA. 101+32 RT		1.00	0021	02
		E-BN STA. 102+60 LT		1.00	0021	02
		E-BN STA. 102+65 LT		1.00	0021	02
		E-BN STA. 108+79 RT		1.00	0021	02
		E-BN STA. 112+23 RT		1.00	0021	02

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
054	910.9901 Cont.	STA. 703+20 - 708+97 RT		577.00	0005	01
		STA. 737+38 - 741+40 LT		412.00	0005	01
		STA. 737+45 - 741+40 RT		405.00	0005	01
		WB STA. 604+00 - 609+63 LT		564.00	0005	01
		WB STA. 610+00 RT - 673+02 LT		6,302.00	0005	01
		WB STA. 616+79 - 673+16 LT		5,637.00	0005	01
Item 910.9901 Total:				44,311.00		
055	914.5010	FLAGPERSONS	MHRS			
		ROUTE 138				
		ESTIMATE		1,200.00	0005	01
Item 914.5010 Total:				1,200.00		
056	914.5020	FLAGPERSONS - OVERTIME	MHRS			
		ROUTE 138				
		ESTIMATE		300.00	0005	01
Item 914.5020 Total:				300.00		
057	916.0650	REMOVE, RELOCATE AND RESET SHOCK	GRP			
		ABSORBING BARRIER MODULES				
		ROUTE 138				
		STA. 734+99 - 735+42 RT		1.00	0005	01
Item 916.0650 Total:				1.00		
058	919.0101	TEST PITS	EACH			
		ROUTE 138				
		S18-1		2.00	0005	01
		S22-4		2.00	0005	01
		S24-1		2.00	0005	01
		S25-1		2.00	0005	01
		S6-3/S6-4		4.00	0005	01
Item 919.0101 Total:				12.00		

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Item No.	Item Code	Description	UM	Qty.	Pay Code	Seq. No.
080	T15.0100 Cont.	S27-2/W13-3 24"X30"		5.00	0021	02
		S27-20/R5-1 30"X30"		6.25	0021	02
		S27-21/R1-2 36"X36"X36"		9.00	0021	02
		S27-22/R5-1 30"X30"		6.25	0021	02
		S27-23/R5-1 30"X30"		6.25	0021	02
		S27-30/R5-10D 30"X36"		7.50	0021	02
		S27-31/R5-10D 30"X36"		7.50	0021	02
		S27-7/W13-3 24"X30"		5.00	0021	02
		S27-8/R5-6 24"X24"		4.00	0021	02
		S27-9/OM1-1 36"X36"		9.00	0021	02
		S29-1/R1-2 36"X36"X36"		9.00	0021	02
		S29-10/R1-1 30"X30"		6.25	0021	02
		S29-13/W12-1 30"X30"		6.25	0021	02
		S29-14/R1-1 30"X30"		6.25	0021	02
		S29-15/R5-1 30"X30"		6.25	0021	02
		S29-16/R6-1R 36"X12"		3.00	0021	02
		S29-17/R1-1 30"X30"		6.25	0021	02
		S29-18/R5-1 30"X30"		6.25	0021	02
		S29-2/W13-3 24"X30"		5.00	0021	02
		S29-25/R1-1 30"X30"		6.25	0021	02
		S29-26/R5-1 30"X30"		6.25	0021	02
		S29-27/W11-1 36"X36"		9.00	0021	02
		S29-28/W11-15P 30"X24"		5.00	0021	02
		S29-3/R5-10D 30"X36"		7.50	0021	02
		S29-4/W13-3 24"X30"		5.00	0021	02
		S29-5/R5-10D 30"X36"		7.50	0021	02
		S29-6/R7-1A 12"X18"		1.50	0021	02
		S29-8/R6-1R 36"X12"		3.00	0021	02
		S29-9/R6-1L 36"X12"		3.00	0021	02
		ROUTE 138				
		ROUNDUP		0.25	0021	02
		S1-1/W11-3 36"X36"		9.00	0021	02
		S13-1/D12-4 96"X48"		32.00	0021	02

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081	T15.0110 Cont.	S6-1/M3-2 36"X18"		4.50	0021	02
		S6-2/M1-5 45"X36"		11.25	0021	02
Item T15.0110 Total:				234.66		
082	T15.0200	REMOVE AND RELOCATE DIRECTIONAL	EACH			
		REGULATORY AND WARNING SIGN				
		RAMPS				
		E-BN STA. 113+44 RT		1.00	0021	02
		ROUTE 138				
		EB STA. 604+95 RT		1.00	0021	02
		STA. 676+81 LT		1.00	0021	02
		STA. 714+01 RT		1.00	0021	02
		WB STA. 611+78 LT		1.00	0021	02
		WB STA. 629+62 LT		1.00	0021	02
Item T15.0200 Total:				6.00		
083	T16.0100	GROUND MOUNTED PRIMARY DIRECTIONAL	SF			
		SIGN PANELS EXTRUDED ALUMINUM				
		RAMPS				
		ROUNDUP		0.75	0021	02
		S27-3/9'X10'		90.00	0021	02
		S27-32/11.5'X7.5'		86.25	0021	02
		S29-29/9'X10'		90.00	0021	02
		S29-7/9'X10'		90.00	0021	02
		ROUTE 138				
		S10-1/14.5'X13'		188.50	0021	02
		S14-2/13.5'X11'		148.50	0021	02
		S16-2/13.5'X7'		94.50	0021	02
		S2-2/16'X9'		144.00	0021	02
		S23-1/13.5'X7'		94.50	0021	02
		S23-3/9.5'X7'		66.50	0021	02
		S8-1/14.5'X13'		188.50	0021	02
		S9-1/17'X13'		221.00	0021	02

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083	T16.0100	Cont.				
Item T16.0100 Total:				1,503.00		

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084	T16.0300	GROUND MOUNTED PRIMARY DIRECTIONAL SIGN POST-STEEL BREAKAWAY RAMPS	EACH			
		S27-3		2.00	0021	02
		S27-32		2.00	0021	02
		S29-29		2.00	0021	02
		S29-7		2.00	0021	02
		ROUTE 138				
		S10-1		2.00	0021	02
		S14-2		2.00	0021	02
		S16-2		2.00	0021	02
		S2-2		2.00	0021	02
		S23-1		2.00	0021	02
		S23-3		2.00	0021	02
		S8-1		2.00	0021	02
		S9-1		2.00	0021	02
Item T16.0300 Total:				24.00		
085	T17.0100	OVERHEAD SIGN PANELS	SF			
		ROUTE 138				
		S18-1/17'X9.5'		161.50	0021	02
		S22-4/14.5'X12.5'		181.25	0021	02
		S24-1/13.5'X11'		148.50	0021	02
		S25-1/15'X5.5'		82.50	0021	02
		S25-1/15'X5.5'		82.50	0021	02
		S6-3/11.5'X10.5'		120.75	0021	02
		S6-3/11.5'X10.5'		120.75	0021	02
		S6-4/14'X11'		154.00	0021	02
		S6-4/14'X11'		154.00	0021	02
Item T17.0100 Total:				848.50		
086	T17.0202	OVERHEAD SIGN STRUCTURE 21-25 FOOT CANTILEVER- STEEL	EACH			

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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>
086	T17.0202 Cont.	ROUTE 138				
		S22-4		1.00	0021	02
		S24-1		1.00	0021	02
		S25-1		1.00	0021	02

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109	926.0130	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL STANDARD 40.5.0 ROUTE 138 AS REQUIRED FOR OVERHEAD SIGN INSTALLATION	LF			
					250.00	0005 01
				Item 926.0130 Total:		250.00
110	413.9901	RIDEABILITY PRICE ADJUSTMENT ROUTE 138 ESTIMATE	EACH			
					75,000.00	0005 01
				Item 413.9901 Total:		75,000.00