

January 24, 2012

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATION
DEPARTMENT OF TRANSPORTATION
RHODE ISLAND CONTRACT NO.2012-CL-021
FEDERAL-AID PROJECT NO. FAP Nos: BRO-1954(071)

I-195 Relocation Landscape - Contract B

East side of Providence work limits are Ramp GW, George M. Cohan Blvd, Pike St from South Water St to Traverse St, South Main St from Tockwotton St to Pike St, and Ramp WSM. West side work limits are Hayward Park, Point St at Ramp WP, Globe St from Hospital St to Eddy St, Eddy St from I-95 to Globe St, Franklin Square, the I-195 Westbound split at Ramps WS and WN, Ramp WES at Eddy St, and Collier Point Park. Additional west side limits are I-95 from Blackstone St to Thurbers Ave, and the Thurbers Ave interchange infield areas.

CITY/TOWN OF 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 Specifications and Proposal for this contract. These changes shall be incorporated in the Specifications and Proposal, and shall become an integral part of the Contract Documents.

A. Clarification

1. Pre-Bid Conference Attendance List

The attendance list from the Pre-Bid Conference held on January 19, 2012 has been attached to this Addendum No. 1.

B. Specification Change/Addition

1. Special Provisions/Construction Specific

a. Page CS-5

Delete page CS-5 in its entirety and replace it with page CS-5(R-1) attached to this Addendum No. 1. Paragraphs 6.H and 6.I have been added.

b. CS Appendix A - Pages 2 through 6

Delete CS Appendix A - Pages 2 through 6 in their entirety and replace them with CS Appendix A - Pages 2(R-1) through 6(R-1) attached to this Addendum No. 1. The Transportation Management Plan has been revised.

2. Special Provisions/Job Specific

a. Page JS-15

Delete page JS-15 in its entirety and replace it with page JS-15(R-1) attached to this Addendum No. 1. The Base Price of Diesel Fuel has been revised.

3. **Compilation of Approved Specifications**

Add Compilation of Approved Specifications Supplement No. 12, December 2011 (includes Revisions, Supplemental Specifications and Special Provisions), attached to this Addendum No. 1, to the contract.

C. Proposal Addition/Deletion

1. **Pages P-22 and P-23**

Delete pages P-22 and P-23 in their entirety and replace them with pages P-22(R-1) and P-23(R-1) attached to this Addendum No. 1. The addendum date has been added.



RI Department of Transportation
Chief Engineer

Sign In Sheet
Relocation of I-195
handscapc Contract B
Pre Bid Conference

1/19/12

<u>Name</u>	<u>Company</u>	<u>Phone</u>
Lambert Zerva	RIDOT / Hwy Eng	222-2023 x 4060
GARY GARZOWE	RIDOT	222-3260 x 4408
Bobby Hule	Central Nurseries	942-7511
FERNANDO SUZA	HOWLAND LANDSCAPING, INC	502-679-3994
SKYLER MILLS	MAGUIRE GROUP	(401) 272-6005 x 288
SUSAN VOTTA	RIDOT / Land.	222-2023 x 4468
STEVEN SARTCIANO	RIDOT	222-2468
Robert Simon	RIDOT	391-6990
BILL GAMMINO	RIDOT	641-8967
TREVOR JONES	RIDOT	222-2023 x 4293
TOM ADAMS	ALL ISLAND LANDSCAPE	401-683-1588
Kelly Carr	GLA	438-2071

12.108.1000 Prosecution and Progress. Work associated with the Extended Establishment Period shall commence one day after the Phase 1 completion date and be completed by the Substantial Completion date.

- C. The schedule for planting shall conform to R.I. Standard Specifications for Road and Bridge Construction, 2004 edition.
- D. All proposed work and landscaping, including mulching, requiring access from the interstate highways shall be completed within a total of thirty (30) calendar days for all locations. The intent is to minimize the duration for traffic control on the interstate and ramps.
- E. All work shall be completed in accordance with the Traffic-related Work Restrictions indicated in the Transportation Management Plan attached to these CS pages and the requirements given below.
- F. The Contractor shall erect a temporary orange construction fence on the same day that the existing permanent fence is removed along Ramp GW. The temporary fence shall remain in place until a new permanent fence is installed.
- G. The Contractor shall remove the existing fence and erect an equal length of new fence along Ramp NE at the power plant property in such a way that the power plant property is secured at the end of each work day with the new chain link fence connected to the remaining existing chain link fence.
- H. The Contractor shall complete all contract work (excluding mowing and extended establishment) shown on Landscape Plan No. 1 (including but not limited to clearing and grubbing, removal of solid waste, excavation, slope restoration, fencing, planting and seeding) within 45 calendar days after beginning work.
- I. The Contractor shall complete the pavement removal and replacement associated with the drainage crossing on the Shared Use Path (sta. 85+75) in five (5) working days (includes pavement removal, installation of the pipe, subgrade, compaction and new pavement).

7. **SPECIAL REQUIREMENTS FOR TRAFFIC MAINTENANCE AND PROTECTION:**

In addition to the requirements of the Standard Specifications for Road and Bridge Construction and the Special Requirements of other sections of these contract documents, the following requirements must be adhered to by the Contractor.

Transportation Management Plan (TMP): Included as an appendix to these Contract Specific General Provisions is the Transportation Management Plan (TMP) for this project. The TMP lays out the set of coordinated transportation management strategies that will be used to manage the work zone safety and mobility impacts of this project. In the event of a discrepancy between information in the TMP and information elsewhere in the Contract Documents, the former shall govern.

The Contractor's attention is called to the Job Specific Specification for **SECTION 12.103 – AWARD AND EXECUTION OF THE CONTRACT**, which describes the requirements for the Contractor's designation of a TMP Implementation Manager for the Contract.

The Contractor's attention is called to the Job Specific Specification for **SECTION 12.105 – CONTROL OF WORK**, which describes the requirements for the training of all Contractor and Subcontractor personnel involved in work zone design,



Project Name: Improvements to I-195, Landscape Contract B
 RI Design Contract No(s): 84127
 RI Construction Contract No(s): 2012-CL-021

Submission: ADV Date: 12/20/2011

PROJECT INFORMATION

Brief Project Description: The work under this contract includes planting trees, shrubs, perennials and grasses, a three (3) year extended establishment period, mulching, mowing, and seeding in and along the right-of-way of I-195, I-95, ramps, and City Streets in Providence. Other work includes maintenance and protection of traffic, placing of crushed stone, fencing, handling and disposal of contaminated soil, erosion control, and all other incidentals, complete and accepted within the project.

General Work Limits: Landscaping areas east of the Providence River include Ramp GW (on-ramp from Gano Street), George M. Cohan Blvd, Pike St, South Main St, and Ramp WSM (Exit 2 from I-195 WB). Areas west of the Providence River include Hayward Park at the intersection of Point Street and West Franklin Street, Point St, Globe St, Eddy St, Franklin Square, infield areas in the I-95/ I-195 interchange, Collier Point Park, Ramp WES (Exit 1B), I-95 southbound from Blackstone St to the Thurbers Avenue interchange, including infield areas. Temporary traffic control will include partial ramp closures, freeway shoulder closures, local street lane/shoulder closures, shifts and width reductions.

WORK ZONE LOCATIONS			
ROADWAY NAME or INTERSECTION	FROM	TO	APPROX. LENGTH
East Side			
Ramp from Gano St. to I-195 WB (Ramp GW)	Gano Street	I-195 Westbound	600 ft
George M. Cohan Boulevard	East Street	Pike Street	1,300 ft
I-195 WB Exit 2 (Ramp WSM)	Sta. 986+75	Sta. 992+00	525 ft
South Main Street	Tockwotton Street	Pike Street	350 ft
Pike Street	South Water Street	George M. Cohan Boulevard	500 ft
West Side			
Hayward Park (intersection of West Franklin Street and Point Street)			
Point Street	Ramp WP	Sta. 24+50	300 ft
Globe Street	Sta. 8+50	Eddy Street	325 ft
Eddy Street	I-95 Overpass	Globe Street	500 ft
Franklin Square (intersection of Eddy Street and Allens Avenue)			
Ramp from I-195 WB to I-95 NB (Ramp WN)	Sta. 366+50	Sta. 371+50	500 ft
Ramp from I-195 WB to I-95 SB (Ramp WS)	Sta. 867+75	Sta. 872+00	425 ft
Collier Point Park	Hurricane Barrier	Boat Dock	550 ft
Thurbers Avenue Ramp to I-95 Southbound	Thurbers Avenue	I-95 Southbound	400 ft
Thurbers Avenue	Ramp THS	Ramp THN	850 ft
I-95 SB Exit 18 (Ramp THS)	I-95 Southbound	Thurbers Avenue	1,050 ft
I-95 Northbound Ramp to Thurbers Avenue	I-95 Northbound	Thurbers Avenue	200 ft
On-Ramp from Thurbers Ave. to I-95 NB (Ramp THN)	Thurbers Avenue	I-95 Northbound	775 ft
Mutual Street	Sta. 23+25	Sta. 23+75	50 ft
Allens Avenue	Public Street	Sta. 1268+50	700 ft
Public Street	Sta. 45+00	Sta. 46+00	100 ft
Globe Street	Eddy Street	Hospital Street	500 ft

General Project Schedule*: The work is expected to take place from spring 2012 through spring 2013.

*The information in this section is not intended to and shall not supersede the approved schedule and milestone/completion dates for the project.

TRAFFIC-RELATED WORK RESTRICTIONS

General Restrictions: See attached Table 1 for minimum number of lanes and shoulders that shall remain open to traffic. The requirements of the Standard Specifications for Road and Bridge Construction and in the Special Provisions - Construction Specific and in other sections of these contract documents, must be adhered to by the Contractor. The Contractor shall obtain permits from the City of Providence for all road closures, partial road closures, sidewalk closing, or any kind of road obstruction on City streets.

Holiday Restrictions: No lane and/or shoulder closures allowed after 1:00 PM on the Friday preceding a holiday weekend.

EASTER SUNDAY

No lane and/or shoulder closures allowed on Saturday.

No lane and/or shoulder closures allowed on Sunday.

NEW YEAR'S DAY, INDEPENDENCE DAY & CHRISTMAS DAY

No lane and/or shoulder closures allowed after 1:00 PM on the day before the holiday.

No lane and/or shoulder closures allowed on the holiday.

DR. MARTIN LUTHER KING JR., MEMORIAL DAY, VICTORY DAY, LABOR DAY, COLUMBUS DAY & VETERANS DAY

No lane and/or shoulder closures allowed on Saturday and Sunday.

No lane and/or shoulder closures allowed on Monday.

THANKSGIVING DAY

No lane and/or shoulder closures allowed after 1:00 PM on the Wednesday preceding Thanksgiving Day.

No lane and/or shoulder closures allowed on Thanksgiving Day.

No lane and/or shoulder closures allowed on Friday and Saturday.

No lane and/or shoulder closures allowed on Sunday.

TEMPORARY TRAFFIC CONTROL PLANS

These RIDOT- and/or Designer-Developed TTC Plans will be used during the work on this project

RIDOT TYPICAL TTC PLANS	Included in:		DESIGNER-DEVELOPED TTC PLANS	Included in:	
	TMP	Plan Set		TMP	Plan Set
<input type="checkbox"/> Mobile Operation			Maintenance and Protection of Traffic Plans No. 1 - 7		X
<input type="checkbox"/> Work Beyond the Shoulder			Lane Reduction on One-Way Local Street	X	
<input checked="" type="checkbox"/> Shoulder Closure - Two Lane Road	X		City Street Sidewalk Closure	X	
<input checked="" type="checkbox"/> Shoulder Closure - Limited Access	X				
<input type="checkbox"/> 1-Side Lane Shift - Two Lane Road					
<input checked="" type="checkbox"/> 2-Side Lane Shift - Two Lane Road	X				
<input type="checkbox"/> Lane Shift - Limited Access					
<input checked="" type="checkbox"/> Lane Closure - Two Lane Road	X				
<input type="checkbox"/> Lane Closure - Four Lane Road					
<input checked="" type="checkbox"/> Lane Closure - Limited Access	X				
<input type="checkbox"/> Double Lane Closure - Limited Access					

PUBLIC INFORMATION PLAN

These strategies will be used to provide information concerning the project to road users and the community

SELECTED STRATEGIES

- RIDOT travel advisories news releases
- RIDOT travel advisories web site
- RIDOT 511 traveler information system

RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS

- RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
- RIDOT TMP Imp. Mngr. to send RIDOT notification form to Communications min. 48 hrs. in advance of restrictions.
- RIDOT TMP Imp. Mngr. to send RIDOT notification form to RIDOT TMC min. 48 hrs. in advance of restrictions.

TRANSPORTATION OPERATIONS PLAN

These strategies will be used to provide improved transportation operations/safety within project work zones

SELECTED STRATEGIES

RESPONSIBILITIES / REQUIREMENTS / SPECIAL CONSIDERATIONS

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 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 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								
<i>All approvals must be obtained prior to start of work</i>								
DEPUTY CHIEF ENGINEER			STATE TRAFFIC ENGINEER			CHIEF ENGINEER		
Signature: <u>Frank Coua</u>			Signature: <u>[Signature]</u>			Signature: <u>[Signature]</u>		
Date: <u>1/20/12</u>			Date: <u>1-20-12</u>			Date: <u>1/20/12</u>		
Revision #	Initials	Date	Revision #	Initials	Date	Revision #	Initials	Date

TMP IMPLEMENTATION MANAGERS	
<i>Project managers with the primary responsibility & authority for implementation of this TMP</i>	
RIDOT	CONTRACTOR (if contract work)
Name: _____	Name: _____
Title: _____	Title: _____
Unit: _____	Company/Unit: _____
Office Phone: _____	Office Phone: _____
Mobile Phone: _____	Mobile Phone: _____
E-Mail: _____	E-Mail: _____

TABLE 1 - MINIMUM NUMBER OF LANES & SHOULDERS TO REMAIN OPEN TO TRAFFIC									
Location	Time of Day		Day of Week						
	From	To	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
South Main Street, Eddy Street, West Franklin Street, Allens Avenue, Beacon Avenue	0:00:00	6:00:00	1L	1L	1L	1L	1L	1L	1L
	6:00:00	9:00:00	1L	ALL	ALL	ALL	ALL	ALL	1L
	9:00:00	15:00:00	1L	1L	1L	1L	1L	1L	1L
	15:00:00	18:00:00	1L	ALL	ALL	ALL	ALL	ALL	1L
	18:00:00	0:00:00	1L	1L	1L	1L	1L	1L	1L
Point Street, Gano Street	0:00:00	6:00:00	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)
	6:00:00	9:00:00	1L (alt)	ALL	ALL	ALL	ALL	ALL	1L (alt)
	9:00:00	15:00:00	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)
	15:00:00	18:00:00	1L (alt)	ALL	ALL	ALL	ALL	ALL	1L (alt)
	18:00:00	0:00:00	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)
Pike Street, Schofield Street	ALL DAY	1L	1L	1L	1L	1L	1L	1L	1L
Globe Street, Cohen Blvd.	ALL DAY	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)	1L (alt)
On-Ramps and Off-Ramps (Ramps GW, WSM, WES, THN and THS)	0:00:00	6:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	6:00:00	9:00:00	1 12' L	ALL	ALL	ALL	ALL	ALL	1 12' L
	9:00:00	11:00:00	1 12' L	1 12' L	1 12' L	1 12' L	1 12' L	1 12' L	1 12' L
	11:00:00	15:00:00	ALL	1 12' L	1 12' L	1 12' L	1 12' L	1 12' L	ALL
	15:00:00	0:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Ramps WS, WN and I-195 westbound at the split to I-95	0:00:00	6:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL
	6:00:00	9:00:00	1 L C	ALL	ALL	ALL	ALL	ALL	1 L C
	9:00:00	11:00:00	1 L C	1 L C	1 L C	1 L C	1 L C	1 L C	1 L C
	11:00:00	15:00:00	ALL	1 L C	1 L C	1 L C	1 L C	1 L C	ALL
	15:00:00	0:00:00	ALL	ALL	ALL	ALL	ALL	ALL	ALL

LEGEND

ALL	All travel lanes and shoulders shall remain open to traffic
1L	A minimum of one 11-foot wide travel lane in each direction shall remain open to traffic
1L (alt)	A minimum of one 11-foot wide travel lane shall remain open to alternating traffic.
1 12' L	A minimum of one 12 foot wide lane shall be open to traffic.
1 L C	A maximum of one lane and/or adjacent shoulder may be closed to traffic (see traffic control plans). All remaining lanes and shoulders shall remain open to traffic.

1 The set-up and break-down of temporary traffic control devices within a traveled way or shoulder shall be construed as a closure of that traveled 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.

CODE 938.1000

PRICE ADJUSTMENTS

DESCRIPTION.

a. Liquid Asphalt Cement. The Base Price of Liquid Asphalt Cement as required to implement **Subsection 938.03.1** of the Standard Specifications is \$ 575.00 per ton.

In the case of modified asphalt binder, this price adjustment provision shall only apply to the neat liquid asphalt component. This provision shall not apply to the modifier component, manufacture, storage, transportation or other associated costs.

b. Diesel Fuel. The Base Price of Diesel Fuel as required to implement **Subsection 938.03.2** of the Standard Specifications is \$3.2028 per gallon.

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COMPILATION OF APPROVED SPECIFICATIONS

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION**

**REVISIONS
SUPPLEMENTAL SPECIFICATIONS
SPECIAL PROVISIONS**

SUPPLEMENT NO. 12

DECEMBER 2011

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Revise **Subsection 202.03; Excavation and Embankment – Construction Methods**, pages 2-13 through 2-19 of the RI Standard Specifications for Road and Bridge Construction as follows:

SECTION 202

EXCAVATION AND EMBANKMENT

- Replace Subsection 202.03.2(b); Roadway Embankment-Earth in its entirety with the following.

b. Roadway Embankment-Earth. Roadway embankments may consist of earth excavation, borrow material, or a combination thereof. Unless the Department mandates the sequencing of materials in the embankment, borrow material shall not be placed until all suitable and accessible materials from all structure, trench, and roadway excavations have been placed. If the Contractor places more borrow than is required and thereby causes a waste of excavation, the amount of such waste will be deducted from the borrow volume as measured.

When borrow material is required to construct embankment, the Contractor shall make his own arrangements to procure the borrow material or open a borrow source. The Contractor shall also determine the suitability of the borrow material for use in embankment by appropriate laboratory testing.

All roadway earth embankment sections shall be constructed in horizontal lifts not exceeding 15 inches (before compaction) and shall be compacted as specified in **Subsection 202.03.3 Compaction-General** before the next lift is placed.

Each lift shall be placed to the full width of the embankment section unless otherwise directed. If the full width of the embankment section cannot be placed at one time, the lifts shall be stepped back at least the length of the lift thickness to allow for benching of the remaining fill.

The entire area of each lift shall be uniformly compacted to at least the required minimum density by use of compaction equipment consisting of rollers, compactors or a combination thereof. Earth-moving and other equipment not specifically manufactured for compaction purposes shall not be considered as compaction equipment.

The moisture content of all roadway embankment materials at the time of compaction shall be that suitable for the soil to meet the required density as specified in **Subsection 202.03.3 Compaction – General** but in no case shall it exceed 2.5% above the Optimum Moisture Content as determined by AASHTO T180. The following applies even if the moisture content is below the allowable upper limit: As observed by the Engineer, should the compacted lift exhibit instability as evident by pumping or rutting under equipment, insufficient moisture as evident by dusting, or excessive moisture or saturation, the Contractor shall make corrections to the lift at no additional cost to the State.

As the compaction of each lift progresses, continuous leveling and manipulating will be required to attain uniform density. Water shall be added or removed, if necessary, in order to obtain stability and the required density. Construction equipment shall be routed uniformly over the entire surface of each lift.

If the natural-in-place moisture of the excavated material makes it impractical to compact the soil, the Contractor shall dry the soil by disking, harrowing, blading or other approved means. If these methods do not produce the specified compaction, the Contractor shall strip and replace the soil.

The embankment shall be crowned to shed runoff and constructed such that side slopes are protected from erosion.

[Remainder of Subsection is unchanged]

• **Replace Subsection 202.03.3; Compaction-General in its entirety with the following.**

202.03.3 Compaction-General. Each lift shall be uniformly compacted to the specified density before the next lift is placed. The specified density shall be obtained by utilizing any approved compaction equipment such as: pneumatic tired compaction equipment, or three-wheeled power rollers, or vibratory, sheepsfoot, or tamping rollers, or other approved types of compaction equipment.

Dumping and rolling areas shall be kept separate, and no lift shall be covered by another until the compaction requirements of this Subsection have been met. Hauling and leveling equipment shall be routed and distributed over each lift of the fill so as to make best use of that compaction effort.

a. Densities.

1. Maximum dry density and optimum moisture content will be determined by AASHTO T180.
2. Field density of soil in place shall be determined by either AASHTO T191 or a nuclear moisture density gauge conforming to AASHTO T310.
3. The method of correcting for oversize particles in soil compaction test results shall conform to AASHTO T224.
4. The Method Specification for Compaction of Soils as described in Para. d. shall apply if an approved soil does not meet the parameters set by AASHTO T180.

b. Compaction of Earth Embankment.

1. Subgrade. Where the resulting subgrade surface is the bottom of an excavation (i.e. undisturbed existing ground), the subgrade surface shall be compacted as required, to not less than 95 percent of maximum dry density. When a nuclear density gauge is used, the in place dry density will be measured by the direct transmission method per AASHTO T 310 to a depth of 12 inches below the exposed surface.

As observed by and at the discretion of the Engineer, determinations may be made of instability and excessive or insufficient moisture of the subgrade material and in such cases, the Contractor shall correct the lift at no additional cost to the State.

2. Embankment Sections. Where embankment sections are greater than 3 feet in height above existing ground, the earth in embankment sections below a plane of three feet below subgrade shall be compacted to not less than 90 percent of maximum dry density. The remainder of the roadway section up to subgrade shall be compacted to 95 percent of maximum dry density. When a nuclear density gauge is used, the in place dry density will be measured by the direct transmission method per AASHTO T 310 to a depth of 12 inches below the exposed surface or equal to the height of the lift thickness, whichever is smaller.

As observed by and at the discretion of the Engineer, determinations may be made of instability and excessive or insufficient moisture of the embankment material and in such cases, the Contractor shall correct the lift at no additional cost to the State.

c. Compaction of Rock Embankment. Rock fill layers shall be sized, placed, and choked as described in **Subsection 202.03.2; Para. c.**

d. Method Specification for Compaction of Soils. This specification is to be used when an approved soil does not meet the parameters set by AASHTO T180.

1. A test strip shall be prepared of adequate size (approximately 100 SY) and at the appropriate lift thickness for the section.

(a) The test strip shall be uniformly compacted with two (2) passes of adequately sized piece of compaction equipment such as a vibratory steel drum roller or a plate compactor with a minimum centrifugal force rating of 5,000 lbs.

The number of roller passes is the number of times the area was rolled with the compaction equipment. e.g. forward and backward is two (2) passes.

(b) The in place field density of the test strip will be determined by the Engineer using either AASHTO T191 or a nuclear moisture density gauge conforming to AASHTO T310 in accordance with **Subsection 202.03.3, Para a.** If high gravel content impedes the use of direct transmission, then the backscatter mode will be used. In the backscatter mode, two tests performed in opposite directions over the same test spot will be averaged and recorded as a single test.

Water shall be added to the area before proceeding if the moisture content is below 3%. Care shall be taken to avoid saturating the area.

(c) Compaction shall continue on the test strip with 1 or 2 additional passes of the compaction equipment. The test area will be re-tested in the same manner as in paragraph b. for moisture and density relations and the results will be compared to the first test.

This procedure will continue until the results of three (3) consecutive density tests are within 1% of each other.

(d) The total number of roller passes required to satisfy the previous step will be established as the minimum number of roller passes required for the roller pattern. Thereafter for production, additional density testing will not be required, unless the material and/or equipment have changed as described in e. below.

(e) A new test strip is required for:

(i.) each source of material

(ii) each specific compaction equipment used

(iii) whenever the material appears to have changed

(iv) whenever the moisture content appears to have changed

2. Upon establishing the approved equipment and roller pattern for production, a visual inspection of each compacted lift will be performed by the Engineer and subsequent lifts shall be placed only upon approval by the Engineer.

Replace **Subsection 601.03.7(a); Testing of Concrete – Process Control of Concrete**, page 6-17 of the RI Standard Specifications for Road and Bridge Construction with the following:

SECTION 601

PORTLAND CEMENT CONCRETE

601.03.7 Testing of Concrete.

a. Process Control of Concrete. In the production and placement of all Portland cement concrete, the Contractor shall be responsible for the process control of all materials during the handling, blending, mixing and placement operations.

The Contractor shall have a competent and experienced concrete technician in charge of the mixing operations and overall quality control. Production control procedures shall be such to insure that the concrete produced complies with these Specifications.

The Contractor shall furnish a sufficient number of concrete curing boxes, as determined by the Engineer, that meet the requirements of **Subsection 929.03.6 para. c** of these Specifications in order to accommodate all concrete test cylinders for all specified curing locations for each concrete placement. The curing boxes will be used for curing of accepted concrete test specimens, and will be required for all classes of concrete.

[Remainder of Subsection is unchanged]

Remove **Section 905; Sidewalks and Driveways**, pages 9-9 through 9-12 of the RI Standard Specifications for Road and Bridge Construction in its entirety and replace with the following.

SECTION 905

SIDEWALKS AND DRIVEWAYS

905.01 DESCRIPTION. This work consists of constructing sidewalks, wheel chair ramps, and driveways on prepared gravel bases at the locations indicated on the Plans or as directed by the Engineer, all in accordance with these Specifications.

Sidewalks and driveways may be constructed of either bituminous concrete or Portland cement concrete, as indicated on the Plans.

905.02 MATERIALS.

905.02.1 Portland Cement Concrete. Portland cement concrete for sidewalks, wheel chair ramps, typical driveways and commercial driveways shall conform to the requirements as set forth in **Subsections 601.01.1; Classification, and 601.03.1; Proportioning**, of these Specifications. Concrete for sidewalk applications shall be modified by the addition of 10% to 20% ground granulated blast furnace slag (GGBFS) or fly ash as a replacement for Portland cement per **Section 602** of these Specifications.

905.02.2 Bituminous Concrete. Bituminous concrete for sidewalks, wheel chair ramps, and driveways shall be as noted on the plans and shall conform to the applicable requirements of **Subsection 401.02** of these Specifications. Coarse and fine aggregates, mineral filler, and asphalt cement shall be combined to produce sidewalk and driveway pavements in accordance with the requirements listed under the column heading entitled, "CLASS I-2 or SIDEWALK" in **Subsection M.03.01** of these Specifications.

Performance-graded asphalt cement shall conform to the requirements of **Subsection M.03.02.1** of these Specifications.

905.02.3 Other Materials.

a. **Gravel Borrow** shall conform to the requirements set forth in **Subsection M.01.02** of these Specifications.

b. **Reinforcing**, when required, shall be wire-fabric that conforms to the requirements of **Subsection M.05.02.1** of these Specifications.

905.03 CONSTRUCTION METHODS.

905.03.1 Scheduling Sidewalk Construction. The Contractor shall schedule sidewalk construction activities such that no areas are left without paved sidewalks for more than seven consecutive calendar days. This means that once the Contractor commences the removal of existing sidewalks at any location within the project, the construction of new sidewalks at that particular location must be completed within seven consecutive calendar days.

Removal of sidewalks shall be performed in accordance with the provisions of **Subsection 201.03.7** of these Specifications.

The Contractor may be required to saw cut and remove the existing sidewalk 2 feet behind the face of the curb and complete curb-related activities prior to removing the adjacent remaining sidewalk area. Should this work be noted on the plans and/or in the specifications, then saw cutting and any required temporary sidewalk patching material will be paid for under separate and appropriate pay items as noted in the contract's proposal.

a. Failure to Comply. If the Contractor fails to complete the construction of any portion of new sidewalks in accordance with this **Section 905**, the daily charge set forth in **Special Provision Code 905.1000** will be deducted from monies then due the Contractor as a charge for failure to comply with these Specifications. Moreover, the stated daily charge will apply for every calendar day that the Contractor fails to comply with this specification.

905.03.2 Compliance with the Americans with Disabilities Act. To comply with the requirements of the Americans with Disabilities Act (ADA), sidewalks shall provide a minimum clearance of 36 inches of width at point of narrowing, excluding the curb width, and 48 inches of continuous width elsewhere. The Contractor shall verify with the Engineer that these requirements can be met prior to completing the construction of new sidewalks. Under no circumstances shall any sidewalks be constructed without prior approval of the Engineer if it is determined that these requirements cannot be attained.

905.03.3 Portland Cement Concrete Sidewalks and Driveways.

a. Excavation. Excavation shall be made to the required depth and to a width that will permit the installation and bracing of the forms. All existing material, including gravel borrow, shall be excavated to the limits indicated on the Plans. The foundation shall be shaped and compacted to a firm even surface conforming to the section shown on the Plans. All unsuitable material shall be removed and replaced with acceptable material.

b. Gravel Borrow Subbase. The gravel base shall be placed in layers not over 6 inches in depth and compacted to the specified depth below finish grade.

c. Forms. Forms shall be of wood or metal and shall extend for the full depth of the concrete. All forms shall be straight, free from warp and of sufficient strength to resist the pressure of the concrete without springing. Bracing and staking of forms shall be such that the forms remain in both horizontal and vertical alignment until their removal.

d. Box forms. Box forms shall be formed around all appurtenances extending into and through the sidewalk. The contractor shall fill all box forms with sand immediately upon placement of the sidewalk. Sand shall be flush with the sidewalk surface. There will be no separate payment for either the material, placement or removal of the sand placed in box out areas, these costs shall be considered incidental to this contract. The final material used to fill inside the box form areas shall be the same as that specified for the sidewalk.

e. Placing Concrete. The foundation shall be thoroughly moistened immediately prior to the placing of the concrete. The proportioning, mixing and placing of the concrete shall be in accordance with the requirements for the class of concrete specified.

f. Finishing. The surface shall be finished with a wooden float. No plastering of the surface will be permitted. All outside edges of the slab and all joints shall be edged with a 1/4-inch radius edging tool.

g. Joints. Expansion joints shall be of the dimensions specified, and shall be filled with an approved type of premoulded expansion joint filler. Sidewalks and driveways shall be divided into sections by dummy joints formed by a jointing tool or other acceptable means as directed. These dummy joints shall extend into the concrete for at least 1/3 of the depth and shall be approximately 1/8-inch wide. At no time shall the distance between transverse and/or longitudinal dummy joints exceed 5 feet.

Construction joints shall be formed around all appurtenances extending into and through the sidewalk. Premoulded expansion joint filler 1/4-inch thick shall be installed in these joints. Expansion joints shall be placed every 20 feet. The forcing of premoulded expansion joint filler into freshly placed concrete will not be allowed.

Expansion joint filler shall be installed between concrete sidewalks and any fixed, smooth structure such as a building or bridge. This expansion joint material shall extend for the full depth of the walk. If the sidewalk abuts an irregular wall, foundation or stationary object, the expansion joint filler shall be placed 4 inches from the irregular surface and concrete placed between the irregular surface and the expansion joint material.

The maximum tolerance for the 4-inch concrete thickness is plus-or-minus 1/2-inch.

h. Curing. Concrete shall be cured for at least 72 hours. Curing shall be by means of moist burlap mats or by other approved methods as set forth in **Subsection 601.03.8; Curing**, of these Specifications. During the curing period all traffic, both pedestrian and vehicular, shall be excluded. Vehicular traffic shall be excluded for such additional time as the Engineer may direct.

i. Cutting and Matching Existing Concrete Sidewalks or Driveways. Where a newly constructed sidewalk and/or driveway abuts an existing sidewalk or driveway, the existing sidewalk or driveway shall be cut with a concrete saw only. The concrete saw shall conform to **Subsection 501.03.2; Para. c** of these Specifications.

After installation of the concrete driveway, the contractor shall match bituminous pavement adjacent to parking areas, walkways, and driveways within 14 days.

905.03.4 Bituminous Sidewalks and Driveways.

a. Excavation and Forms. Excavation and forms shall meet the requirements of **Subsections 905.03.3; Paras. a and c**, respectively. The limits of excavation will be as shown on the Plans, or as directed by the Engineer. All material within the limits of excavation must be removed and replaced with gravel borrow subbase.

b. Gravel Borrow Subbase. Gravel material shall be placed in layers not exceeding 6 inches in depth and each layer shall be compacted as specified in **Subsection 301.03.2** of these Specifications.

c. Placing Bituminous Sidewalk and Driveway Material. Bituminous sidewalk and driveway material shall be placed on the compacted base in one or more courses as indicated to give the required depth when rolled. Compaction shall be accomplished by means of a power roller of a type and weight acceptable to the Engineer. In areas inaccessible to the roller, hand tamping or hand roller will be permitted. In any case, the bituminous material shall be uniformly compacted.

The Contractor shall simultaneously extend the binder and Type I-1 surface course from the project roadway into all driveways which are not constructed with Portland cement concrete for a length of 3 feet, thereby eliminating cold joints at the gutter line.

905.04 METHOD OF MEASUREMENT.

905.04.1 Portland Cement Sidewalks and Driveways. "Portland Cement Concrete Sidewalks and Driveways" will be measured by the number of cubic yards of pavement actually placed in accordance with the Plans and/or as directed by the Engineer.

905.04.2 Bituminous Concrete Sidewalks and Driveways. "Bituminous Concrete Sidewalks and Driveways" will be measured by the number of tons of pavement material actually placed in accordance with the Plans and/or as directed by the Engineer.

905.05 BASIS OF PAYMENT.

905.05.1 Portland Cement Concrete Sidewalks and Driveways. The accepted quantities of "Portland Cement Concrete Sidewalks and Driveways" will be paid for at the contract unit price per cubic yard as listed in the Proposal. A maximum 5 percent overrun of the calculated quantities based on the required thickness as shown on the Plans is permissible. The price so stated constitutes full and complete compensation for all labor, materials and equipment, including expansion joint material, reinforcement, and all other incidentals required to finish the work, complete and accepted by the Engineer. Excavation and gravel borrow subbase will be paid for separately under appropriate work items.

905.05.2 Bituminous Concrete Sidewalks and Driveways. The accepted quantities of "Bituminous Concrete Sidewalks and Driveways" will be paid for at the contract unit price per ton as listed in the Proposal. A maximum 10 percent overrun of the calculated quantities based on the required thickness as shown on the Plans is permissible in accordance with the provisions of **Subsection 401.04.1(b)** of these Specifications. The price so-stated constitutes full and complete compensation for all labor, materials and equipment, and all other incidentals required to finish the work, complete and accepted by the Engineer.

Excavation and gravel borrow subbase will be paid for separately under appropriate work items.

CODE 905.1000

SIDEWALKS

(Job Specific)

DESCRIPTION: Subsection 905.03.1(a) - Failure to Comply, In the event the Engineer determines that new sidewalks have not been constructed within the seven consecutive calendar days required by **Subsection 905.03.1(a)** of these Specifications, a daily charge will be deducted from monies due the Contractor.

The charge for this Contract will be \$_____ per day, for each day that the Contractor is not in compliance with **Subsection 905.03.1(a)** of these Specifications.

Remove **Specification 929.1000; Field Offices and Materials Laboratory**, pages AC-113 and AC-114 of the Compilation of Approved Specifications, January 2011 in its entirety and replace it with the following

929.1000

FIELD OFFICES AND MATERIALS LABORATORY

DESCRIPTION. The items of computer equipment and software to be provided for this Contract in accordance with **Para. c. of Subsection 929.03.5; Special Requirements for Field Office**, of the RI Standard Specifications for Road and Bridge Construction, 2004 Edition, consist of the following

1. One (1) InkJet color printer capable of printing standard and custom paper sizes from 3 by 5 inches to 11 by 17 inches. Print quality shall be 1200 by 1200 dpi minimum resolution for black and white printing and 4800 X 1200 optimized dpi for color printing. It shall be capable of printing up to 20 ppm (black and white) and up to 15 ppm (color).
2. One (1) laser printer capable of printing standard and custom paper sizes from 3 by 5 inches to 11 by 17 inches. Print quality shall be 1200 by 1200 dpi minimum resolution and have a minimum of 64 MB RAM.
3. Two (2) new PC laptop computers with an i3-2.1GHz processor (minimum); 250 GB (5400 rpm) hard drive (minimum); 15" LCD screen (minimum); 4 GB of RAM (minimum); 10/100 network interface card; CD-RW/DVD drive; wireless network card, broadband internet access (3Mbps nominal connection speed) and Internet Service Provider, 9 cell primary battery, two AC/DC power adaptors, extra 9 cell battery, and carrying bag. Installed software shall include: Microsoft Windows 7 (32 or 64 bit) with the latest service packs and security updates, Microsoft Office Professional (2010 version) with latest service packs, Adobe Acrobat Professional 9.0 (or better), AutoCAD 2012 (or better), and Symantec Endpoint Protection 12.1 with subscription support for the life of the project. All installation CDs, licenses, registration codes and user manuals/documentation shall be provided to the Engineer.
4. Two (2) Docking Stations with a minimum of the following: 1 Ethernet RJ-45 port, 4 USB 2.0 ports, VGA, display port, DVI-D, two (2) 101 key enhanced keyboards, two (2) optical mouse with scroll wheel, and two (2) 21" Wide Screen Flat Panel LCD screens (minimum).
5. One (1) 500 GB External Hard Drive.
6. One (1) approved facsimile machine meeting the following minimum standards: desktop transceiver; automatic fax/tel switch with only one phone line needed; 10 page document feeder; 9600 bps modem speed with automatic fallback; answering machine interface; 20 location capacity; one-touch dial with 16 locations; PSTN line connection; monitor speaker; 16 character LCD size; local copy function; status/error indicators; transmit and receive confirmation reports; no more than 15 pounds in weight; 120V-60 HZ power requirement; built-in handset; image control resolution of 200 x 100 ipi at standard, 200 x 200 ipi at fine, and 200 x 400 ipi at super-fine; 16 level gray scale; automatic redial 2 times at 3 minute intervals and 128 KB memory capacity. The Contractor shall provide a separate phone line for the facsimile machine.

7. One (1) desktop copying machine with an automatic document feeder, or a compatible machine approved by the Engineer.
8. Two (2) 10.0 megapixel digital cameras with wide-angle 5X internal optical zoom and 2.5 inch LCD screen. The camera shall be dustproof, waterproof to 13 feet (4 meters), and coldproof to 14°F.
9. The computer equipment and software, cameras and hard drive shall become property of the State after the Contract Completion.
10. Dust shields and a security cabinet capable of physically containing all hardware, software, and accessories.
11. Surge Protectors for all the above equipment.
12. The Contractor shall provide maintenance and supplies for the life of the project. Supplies for both new and existing field office equipment shall include but, are not limited to, 3.5" DSHD floppy disks, CD-R disks with jewel cases, DVD-R disks with jewel cases, CD storage case, toner, inks, all paper, etc. All supplies shall be provided with the original installation of the computer equipment and as required, as soon as possible after notification by the Resident Engineer.
13. On delivery of computer equipment to a field office, the Resident Engineer must contact the **(DoIT)** Service Desk Service@DoIT.ri.gov to arrange for State Inventory. The resident engineer must provide the detail spec. of the computer equipment, location of the field site and the completion date of the project. The Resident Engineer must also contact the service desk Service@DoIT.ri.gov at the end of the project to pull the computer equipment into DOT State inventory or if the computer equipment needs to move from one location to another.

Remove **SECTION 930; Plant Field Laboratory**, pages 9-58 to 9-62 of the RI Standard Specifications for Road and Bridge Construction in its entirety and replace it with the following:

SECTION 930

PLANT FIELD LABORATORY

930.01 DESCRIPTION. This work consists of furnishing a building at the site of the production plant suitable for the housing and use of equipment required to carry out the various tests and for the recording and processing of the results of said tests, all in accordance with these Specifications.

The building shall be for the exclusive use of the Engineer or his representatives for the purpose of testing and recording the results of said testing.

930.02 LABORATORY BUILDING. The laboratory building shall not be less than 16 feet wide and 12 feet long and shall have a ceiling height of at least 7½-feet. The floor shall be sturdy, level, and constructed of concrete. The building shall be watertight. There shall be at least three standard windows and a door equipped with an adequate lock. The site shall include restroom facilities that are fully equipped and accessible.

If the Engineer permits, the Plant Field Laboratory may be part of an existing building. In this case, the laboratory portions of the building shall be entirely partitioned off from the remaining unrelated areas. The use of a trailer, utility control rooms such as electric, telephone, water, sewage, etc., as a Department designated laboratory and/or office is not permitted.

The laboratory shall be air conditioned. Adequate and satisfactory lighting, heating and drinking water shall be provided. The Contractor shall furnish all water, fuel, and electrical power required to conduct the various tests. The power provided shall be adequate to simultaneously operate all laboratory equipment and utilities, including an air conditioner if the laboratory is so-equipped. A table, chairs, desk, work bench, fireproof filing cabinet and telephone shall be provided in each laboratory.

In case of fire, theft or breakdown, all equipment involved shall be repaired or replaced by the Contractor. Production of any material may be discontinued at the discretion of the Engineer until the equipment is repaired or replaced. In the event buildings are destroyed or rendered untenable for any reason they shall be replaced within two weeks or as directed. In the interim, the Contractor shall provide temporary facilities for laboratory operations.

When both bituminous and cement concrete mixing plants are located in the same compound and when the Contractor provides one laboratory building for both bituminous and cement concrete testing facilities, duplication of laboratory equipment will not be required with the exception of the computer equipment specified in **Subsection 930.03.3**.

930.02.1 ADA Considerations. The Rhode Island Department of Transportation (RIDOT) is committed to providing equal access and opportunity for all persons in conjunction with Federal Law under Title I of the American's with Disabilities Act (ADA).

The United States Access Board defines a reasonable accommodation as; “a modification or adjustment to a job, an employment practice, or the work environment that makes it possible for a qualified individual with a disability to enjoy an equal employment opportunity.”

In keeping with these directives, those private entities that provide field material laboratories utilized by RIDOT staff, especially those with a disability, must ensure that said facilities provide reasonable accommodation to allow Department employees to be efficient and productive in their work. Reasonable accommodations shall be provided in a manner consistent with the ADA, and as found in similar working conditions in RIDOT-owned facilities.

Private entities that provide such facilities must demonstrate to the Department in advance that reasonable accommodations consistent with ADA have been made available.

Department employees should contact RIDOT Human Resources with any reasonable accommodation requests.

930.03 LABORATORY REQUIREMENTS.

930.03.1 Bituminous Concrete Mixing Plants. The Contractor shall provide the following at the bituminous mixing plant:

a. Equipment and Supplies.

1. One automatic bituminous compactor complete with hammer assembly; 4-inch, 10-pound drop hammer and counter, with automatic shutoff.
2. Four bituminous compaction molds complete with mold body, base plate and collar (4-inch inside diameter).
3. One sample splitter ½-inch chute with width - 16 chutes.
4. One sample splitter 2½-inch chute width - 8 chutes.
5. One asphalt ignition oven capable of automatically determining the corrected asphalt content of a 3,000 gram sample. The oven shall have an integral weighing system and printer capable of providing a hard copy of test results. A suitable work area and adequate ventilation for the oven's exhaust shall be provided. Two pair of heat resistant gloves (Gilson Model SE-31 or equal), two sample trays and a face shield (Gilson Model SE-42 or equal) shall be provided. The internal scale shall conform to **Subsection 930.03.4** of these Specifications. The Contractor shall perform all maintenance of the oven at intervals recommended by the manufacturer.
6. One motor-driven 12-inch sieve shaker, complete with belt driven mechanism to produce combination rocking and tapping action, capacity for 6 full-height 12-inch sieves plus pan and cover; all parts mounted on a sturdy base.
7. One gravity drying oven of rugged construction with 3/8-inch thick insulated walls, minimum inside dimensions to be 18 inches wide, 14 inches deep and 19 inches high, equipped with two expanded metal shelves, automatic thermostat and other controls, a glass thermometer reading 0^o to 300^oC by 1^o divisions.

8. One set of US Standard 12-inch round intermediate height testing sieves with stainless steel mesh. Sizes shall include 1½", 1¼", 1", ¾", ½", ⅜", Nos. 4, 8, 16, 30, 50, 100, and two No. 200, with square openings, two pans and one cover.

9. Six drying pans approximately 10" x 14" x 2½" for use in the oven.

10. One digital scale - 8,000 grams plus/minus 0.1 grams.

11. Two brass wire briquette brushes.

12. Three sieve or sash brushes.

13. Two approved dial type thermometers - 50°F to 500°F.

14. One approved two-burner electric hot plate, UL approved.

15. Metal mixing bowl, 14 inches or greater diameter.

16. Sample splitting tool.

17. Two putty knives.

18. Five metal sampling buckets.

19. Dust masks.

20. Two pairs of suede work gloves.

22. An adequate supply of towels for Marshall core specific gravity test.

23. An approved cleaning solvent for the equipment must be provided.

24. Two pairs of safety goggles and two pairs of gloves for high heat applications.

25. One Marshall core specific gravity apparatus.

26. One Density tank for Marshall core specific gravity.

27. Two sampling spoons.

28. Two spatulas.

29. One shovel.

30. One fire extinguisher (10 lbs. min.).

31. A hood with an exhaust fan or other acceptable means of ventilation.

32. First Aid Kit. **930.03.2 Cement Concrete Mixing Plants.** The Contractor shall provide the following at the concrete mixing plant:

a. Equipment and Supplies.

1. One digital platform beam scale, capacity 45 kilograms, sensitivity 5 grams.
2. One approved two-burner electric hot plate, UL approved.
3. One gravity drying oven of rugged construction with 3/8-inch thick insulated walls, minimum inside dimensions to be 18 inches wide, 14 inches deep and 19 inches high, equipped with two expanded metal shelves, automatic thermostat and other controls, a glass thermometer reading 0^o to 300^o C. by 1^o divisions.
4. One Gilson type sieve shaker (Model TS-1) with timer or equivalent, consisting of eight changeable screens; screens to be within US Standard tolerances and have openings as follows: 2½", 2", 1½", 1", ¾", ½", 3/8", No. 4, No. 8, No. 16, and pan. The unit should be enclosed and adequate ventilation shall be provided.
5. One motor-driven portable sieve shaker for operation on 110-volt, 60-cycle single phase current, complete with belt driven mechanism to produce combination rocking and tapping action, capacity for 6 full-height sieves plus pan and cover; all parts mounted on a sturdy base.
6. One set of brass-frame United States Standard testing sieves, all to be full height, 8 inches in diameter and matched for nesting; one each of the following: ¾", ½", 3/8", Nos. 4, 8, 16, 20, 30, 40, 50, 80, two No. 100, and one No. 200 mesh with No. 14 mesh backing, two pans and one cover.
7. Three fine, 2-inch sieve or sash brushes and two brass wire briquette brushes.
8. One set of 8 sturdy pans for drying soils, approximately 10" x 14" x 2¼" of 12-gauge metal.
9. One complete air meter test outfit, 1/4 cubic foot, (Ref. AASHTO T152 and ASTM C231).
10. One complete slump test outfit (Ref. AASHTO T23 and T119).
11. One sturdy pan, 14-gauge metal, with reinforced rims 24" x 24" x 3".
12. One sample splitter ½-inch chute width - 16 chutes.
13. One sample splitter 2½-inch chute width - 8 chutes.
14. One digital scale - 2,000 grams plus/minus 0.1 gram.
15. One small concrete scoop (#1).
16. Two dial thermometers (0^oF to +160^oF).
17. Four plastic buckets, 5-gallon capacity.

18. One fire extinguisher (10 lbs. min.).
19. One shovel.
20. One steel brush, long handle.
21. Two putty knives.
22. Two pairs of suede work gloves.
23. One square steel trowel (6-inch length center handle).
24. First-Aid Kit.
25. One plastic storage tote (10-gallon capacity, 24" x 16" x 8.75" minimum).
26. One large concrete scoop (#2).

930.03.3 Computer Equipment. The items of computer equipment and software to be furnished, installed, tested, made operational, and maintained within the Plant Field Laboratory are set forth in Special Provision Code 930.1000. If a plant is producing both asphalt and concrete, two complete sets of computer equipment will be required.

Should the Contractor fail to provide any of the supplies or equipment described above and deemed necessary by the Engineer, the State will not accept any mixes or products dispatched from subject site unless otherwise approved by the Engineer.

930.03.4 Scales. All scales for bituminous and cement concrete mixing plant testing equipment must be calibrated every six months and must conform to the requirements of applicable Specifications.

930.03.5 Catalogues. Catalogs for the above equipment are available at the Department's Materials Laboratory.

930.04 METHOD OF MEASUREMENT. Not applicable.

930.05 BASIS OF PAYMENT. Provision of "Plant Field Laboratory" will not be paid for separately, but shall be considered a subsidiary obligation of the Contractor, with the costs thereof distributed among the contract unit prices for other items of work.

Remove **Section 935; Removing Bituminous Pavement by Cold Planing**; pages 9-69 and 9-70 of the RI Standard Specifications for Road and Bridge Construction, and JS Specification **935.99; Removing Bituminous Pavement by Micro-Milling**, page AC-123 of the January 2011 Compilation of Approved Specifications and replace them with the following:

SECTION 935

REMOVING BITUMINOUS PAVEMENT BY MICRO-MILLING

935.01 DESCRIPTION. This work consists of the removal of bituminous material using micro-milling to a depth specified on the Plans or as directed by the Engineer, all in accordance with these Specifications.

935.02 MATERIALS. Not applicable.

935.03 CONSTRUCTION METHODS.

935.03.1 Equipment. The milling equipment for removing the bituminous pavement shall be designed specifically for grinding asphalt surfaces to close tolerances and shall be operated at a rate that will avoid tearing and gouging of the pavement surface. The equipment shall be capable of accurately establishing profile grades and cross slopes, and shall have a positive means for preventing any dust resulting from the operation from escaping into the air. An averaging ski not less than 25 feet in length shall be utilized with the pavement removal equipment on all limited-access highways and on other types of highways when indicated in the Contract Documents.

The equipment furnished by the Contractor shall be in good repair and shall be maintained so as to produce a clean cut to the pavement at all times.

935.03.2 Control Strip. The Contractor shall grind a control strip at least 500 feet long with uniformly textured surface and cross section. The milled pavement surface shall have a transverse pattern 0.3 inches or less between the centers of each strike area. The macrotexture shall be 1/16 inches or less as measured using ASTM E965.

935.03.3 Pavement Grinding. Upon the approval of the Control Strip by the Engineer, all areas designated for micro-milling shall be ground using the identical procedures, settings and speed, and shall conform in all respects to the requirements for the control strip.

No asphalt cuttings shall remain on the project at the end of the workday. Asphalt cuttings shall be removed and legally disposed of by the Contractor.

Care shall be exercised in cold planing adjacent to roadway joints, roadway appurtenances and face of curbing.

935.04 Method of Measurement. "Removing Bituminous Pavement by Micro-Milling" will be measured by the number of square yards of said pavement actually removed in accordance with the Plans and/or as directed by the Engineer.

935.05 Basis of Payment – The accepted quantity of "Removing Bituminous Pavement by Micro-Milling" will be paid for at the contract unit price per square yard as listed in the Proposal. The price so-stated constitutes full and complete compensation for all labor, materials, equipment, disposal and all other incidentals required to finish the work, complete and accepted by the Engineer.

Replace **Subsection T-15.03.5; Post Holes**, page T-30 of the RI Standard Specifications for Road and Bridge Construction in its entirety with the following.

T.15.03.5

POST HOLES

T.15.03.5 Post Holes. Post holes shall be excavated to the depth and in the position shown on the Plans, or as indicated by the Engineer. A tolerance of plus or minus 3 inches will be permitted in the depth of the holes for wood posts. The exposed portions of the posts shall be set plumb and true to line and grade, and holes shall be backfilled with sound earth and tamped in 6-inch layers in such a way as not to displace the posts.

Post holes to be excavated through an existing concrete or asphalt surface shall be backfilled with earth as prescribed above to within 4 inches of the original grade. After this is completed, 4 inches of concrete shall be placed in the hole and the surface leveled and finished with the original grade.

When sign posts, except U-channels, are to be installed within areas where new concrete or asphalt pavement is to be placed, the following method shall be used. At the post location, a box form will be installed. The side dimension of the box form shall be 4 inches larger than the greatest dimension of the required post, but no less than 8 inches, and its depth shall be 6 inches. The box form shall be firmly anchored and shall be placed such that the top of the box is at the finished grade of the pavement. The pavement shall be installed around the box form. The required post hole shall then be excavated within the area of the box form, and the post will be installed, with the proper backfilling, as described above. All concrete box forms shall conform to **Subsections 905.03.3(c), (d) and (g)** of these Specifications.

Revised: 2/19/2002

Total or gross sum of bid for Rhode Island Contract Number: 2012-CL-021

Federal-Aid Project Number(s): BRO-1954(071)

WRITTEN IN WORDS:

The undersigned bidder declares that this Proposal is made without connection with any other person or persons making proposals for the same work, and is in all respects fair and without collusion or fraud. The undersigned bidder submits herewith, a proposal guarantee in the form of a bid bond in favor of the State of Rhode Island in the amount of 5% of the total or gross sum of the bid and agrees and consents that the proposal guarantee shall be forfeited to the State as liquidated damages if the required contract agreement and contract bond are not executed within ten(10) days of the notice of award. All surety companies must be listed with The Department of the Treasury, Fiscal Services, Circular 570, (Latest Revision published by The Federal Register). The State reserves the right to retain the surety of all bidders until the successful bidder enters into the Contract or until such time as the award or cancellation of the Contract is announced at which point Sureties will be returned to all bidders by the State of Rhode Island, Office of Purchases. The undersigned bidder further agrees, if awarded the contract on this proposal, to begin work within ten (10) calendar days after the date of execution of the contract unless otherwise specified under special provisions or permitted by the Engineer, and further agrees to complete the work on or before the dates outlined in the Contract Documents.

COMPLETION DATE(S)

DESCRIPTION	DATE
Phase 1 Completion Date	November 30, 2012
Substantial Completion Date	November 30, 2015
Bid-Opening Date	February 1, 2012
Pre-Bid Date	January 19, 2012
Advertise Date	January 11, 2012

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING:

ADDENDA	DATE POSTED	DOCUMENT(S)	PAGE
NO.1	January 24, 2012	1. Status Certification for: Debarment, Eligibility, Indictments, Convictions or Civil Judgements	1
		2. Anti-Collusion Certificate	2
		4. DBE Affirmative Action Certification	3 - 9
		3. Disclosure of Lobbying Activities	

Total or gross sum of bid for Rhode Island Contract Number: 2012-CL-021

Federal-Aid Project Number(s): BRO-1954(071)

Whoever, being an officer, agent, or employee of the United States, or of any State, or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the costs thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction of any highway or related project submitted for approval to the Secretary of Transportation; or Whoever, knowingly makes any false statement, false representation, false report, or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or Whoever, knowingly makes any false statement or false representation as to a material fact in any statement, certificate, or report submitted pursuant to the provisions of the Federal-aid Road Act approved July 11, 1916 (39 Stat. 355), as amended and supplemented, Shall be fined not more than \$10,000 or imprisoned not more than five years, or both. By signing here the signee agrees that the disk submitted is the same as the paper submitted and that any discrepancies may result in disqualification of the bid.

BEING EITHER A (INDIVIDUAL, PARTNERSHIP,
(OR CORPORATION INCORPORATED)
(UNDER THE LAWS OF ANY STATE)
(IN THE UNITED STATES OF AMERICA)

Contractor

COMPOSED OF OFFICERS, PARTNERS
OR OWNER, AS FOLLOWS.

President

Vice-President

Secretary

Treasurer

Address

CERTIFICATION SUMMARY: I hereby certify that I have read all of the above requirements and understand that it affects the acceptability of my bid(s).

Name of Signatore - Title

Date