



State of Rhode Island
Department of Administration / Division of Purchases
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ADDENDUM # 3

11/0113
RFQ #7511365

Title: East Campus Sewer Improvements – Rhode Island College

Submission Deadline: November 8, 2013 @ 1:30 PM (ET)

Per the issuance of ADDENDUM # 3 the following are noted:

Under the provisions of Article 7 of Section 00200, Instructions to Bidders, Bidders are informed that the Bidding Documents for the above mentioned Project are modified, corrected, and/or supplemented as follows. Addendum No. 3 becomes part of the Bidding Documents and Contract Documents. (See attached)

Acknowledge receipt of this addendum by inserting its number in Article 5.2 of the Bid form. Failure to acknowledge receipt of the Addendum may subject the Bidder to disqualification.

Interested Parties should monitor this website on a regular basis, for any additional information that may be posted.

**Gary P. Mosca
Sr. Buyer**

**Addendum No. 3
to the Bidding Documents**

**East Campus Sewer Improvements
Rhode Island College
Providence, RI**

Issued October 30, 2013

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Project Manual Changes

Item 1-1 Section 00410 – Bid Form

Delete Section 00410 – Bid Form in its entirety and replace with the attached Section 00410 – Bid Form.

Item 1-2 Section 01110 – Summary of Work

Insert the following paragraph as paragraph 1.3.b.1.g;

“g. Existing sewer must remain operational throughout construction. Sewer abandonment may begin following the completion of proposed sewer installation, testing, and connections to the new sewer.”

Item 1-3 Section 01270 – Measurement and Payment

Delete Section 01270 – Measurement and Payment in its entirety and replace with the attached Section 01270 – Measurement and Payment.

Item 1-4 Section 02110 – Contaminated Soil Excavation

Add the attached Section 02110 – Contaminated Soil Excavation in its entirety including the attached Soil Management Plan.

Item 1-5 Section 02120 – Transportation and Disposal of Contaminated Soils

Add the attached Section 02120 – Transportation and Disposal of Contaminated Soils in its entirety.

Item 1-6 Section 02315 – Excavation, Backfill, Compaction and Dewatering

Delete paragraph 3.2.C.1 in its entirety.

Clarifications

Item 1-7 There is a significant difference in price between mechanical, blasting and boulder removal.

Contractors shall follow State of Rhode Island laws regarding blasting. Please see the attached bid form for the different categories of rock removal.

Item 1-8 There is a restriction on street openings from November 15th to April 1st in section 01140. However; there is a Providence City ordinance that permits opening of a street after November 15th, does the November 15th to April 1st restriction still apply?

The City ordinance is not applicable. The restriction on street openings between November 15th to April 1st dates are not applicable, provided all openings receive temporary patch in accordance with the specifications.

Item 1-9 Will cold patch be acceptable for temporary patch when the asphalt plants are closed?

Only under emergency situations and by written request from the Contractor. The Contractor shall request the use of temporary patch 2 weeks prior to intended use, the Owner will review and provide the Contractor with a response. Contractor is responsible for maintaining all patches throughout the winter (if disturbed by plowing, weather, settling, etc.).

Item 1-10 Who will inspect the project?

Both Tighe & Bond as well as Rhode Island College.

Item 1-11 Is there a budget?

Yes, however it is not public information.

END OF ADDENDUM NO. 3

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Section 00410 – Bid Form

SECTION 00410

BID FORM

PROJECT IDENTIFICATION:

East Campus Sewer Improvements

TABLE OF ARTICLES

1. Bid Recipient
2. Bidder's Acknowledgements
3. Bidder's Representations
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5. Basis of Bid
6. Time of Completion
7. Attachments to This Bid
8. Bid Submittal

ARTICLE 1 - BID RECIPIENT

- 1.1 Submit bid in accordance with the instructions listed on the original bid solicitation:

**State of Rhode Island
Division of Purchasing**

- 1.2 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 - BIDDER'S ACKNOWLEDGEMENTS

- 2.1 Bidder accepts all of the terms and conditions of the Advertisement for Bids and Instructions to Bidders, including without limitation, those dealing with the disposition of Bid deposit. The Bid will remain subject to acceptance for 30 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

- 3.1 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:
 - A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents and the Addenda, receipt of all which is hereby acknowledged.

- B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) that have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in SC-4.06 as containing reliable “technical data.”
- E. Bidder has considered the information known to Bidder; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents; and (3) Bidder’s safety precautions and programs.
- F. Based on the information and observations referred to in Paragraph 3.1E above, Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times required and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

ARTICLE 4 - BIDDER’S CERTIFICATION

- 4.1 Bidder hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work, that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee.

- 4.2 Bidder hereby certifies under the penalties of perjury, to the best of Bidder's knowledge and belief, that Bidder has filed all State tax returns and paid all State taxes required by law.
- 4.3 Bidder hereby certifies Bidder will comply with the minority workforce percentage ratio and specific affirmative action steps contained in the EEO/AA provisions of this Contract, including compliance with the Minority Business Enterprise as required under these contract provisions. The Bidder, if this Bid is accepted, shall be required to obtain from each of its subcontractors a copy of the certification by said subcontractor, regardless of tier, that it will comply with the minority workforce ratio and specific affirmative action steps contained in these EEO/AA contract provisions and submit it to Owner prior to the award of such subcontract.
- 4.4 Bidder certifies that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- 4.5 Bidder certifies that Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- 4.6 Bidder certifies that Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- 4.7 Bidder certifies that Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph:
- A. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
 - B. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of the Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - C. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and
 - D. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 - BASIS OF BID

- 5.1 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
1	Mobilization and Demobilization, per lump sum, the price of: _____	lump sum* =	\$ _____
	(\$ _____) *Not to exceed 5 percent of the total Bid price		
2	Police Detail, the price of: _____	Allowance =	\$30,000.00
	Thirty thousand dollars (\$30,000.00 _____)		
3	Traffic Control, per lump sum, the price of: _____	lump sum =	\$ _____
	(\$ _____)		
4	Pipeline and Manhole Abandonment, per lump sum, the price of: _____	lump sum =	\$ _____
	(\$ _____)		
5	Haybales/Siltation Fencing, per linear foot, the price of: _____	x 900 l.f. =	\$ _____
	(\$ _____)		
6	Test Pits, per cubic yard, the price of: _____	x 150 c.y. =	\$ _____
	(\$ _____)		
7	Excavation Below Normal Grade – Unsuitable Material, per cubic yard, the price of: _____	x 100 c.y. =	\$ _____
	(\$ _____)		

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
8	Rock Excavation – Mechanical, per cubic yard, the price of: _____	x 1,000 c.y. =	\$ _____
	(\$ _____)		
9	Rock Excavation - Blasting, per cubic yard, the price of: _____	x 2,000 c.y. =	\$ _____
	(\$ _____)		
10	Processed Gravel Borrow, per cubic yard, the price of: _____	x 75 c.y. =	\$ _____
	(\$ _____)		
11	Broken Stone Borrow, per cubic yard, the price of: _____	x 100 c.y. =	\$ _____
	(\$ _____)		
12	Ordinary Borrow, per cubic yard, the price of: _____	x 3,000 c.y. =	\$ _____
	(\$ _____)		
13	Sand Borrow, per cubic yard, the price of: _____	x 50 c.y. =	\$ _____
	(\$ _____)		
14	8-inch Mainline PVC SDR-35 Gravity Pipe, per linear foot, the price of: _____	x 2,450 l.f. =	\$ _____
	(\$ _____)		

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
15	48-inch Precast Concrete Sewer Manholes, each, the price of: _____	x 22 each =	\$ _____
	(\$ _____)		
16	48-inch Precast Concrete Sewer Manholes - Additional Vertical Feet in excess of 5 feet, per vertical foot, the price of: _____	x 150 v.f. =	\$ _____
	(\$ _____)		
17	Manhole Chimney, each, the price of: _____	x 4 each =	\$ _____
	(\$ _____)		
18	Breaking into Existing Manholes and Catch Basins, each, the price of: _____	x 3 each =	\$ _____
	(\$ _____)		
19	Service Connection Chimney, each, the price of: _____	x 4 each =	\$ _____
	(\$ _____)		
20	6-inch PVC SDR-35 Service Pipe, per linear foot, the price of: _____	x 950 l.f. =	\$ _____
	(\$ _____)		
21	PVC Wye Fitting, each, the price of: _____	x 16 each =	\$ _____
	(\$ _____)		

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
22	Sanitary Sewer Service Cleanout, each, the price of: _____	x 16 each =	\$ _____
	(\$ _____)		
23	Sanitary Sewer Service Reconnection, each, the price of: _____	x 23 each =	\$ _____
	(\$ _____)		
24	Sanitary Sewer Service Location/Investigation, each, the price of: _____	x 16 each =	\$ _____
	(\$ _____)		
25	Television Inspection and Video Recording of Existing Sanitary Sewer Main Pipelines, per linear foot, the price of: _____	x 1,200 l.f. =	\$ _____
	(\$ _____)		
26	Existing Sewer Spot Repair, per linear foot, the price of: _____	x 100 lf =	\$ _____
	(\$ _____)		
27	Pipe Lining, per linear foot, the price of: _____	x 700 l.f. =	\$ _____
	(\$ _____)		

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
28	Precast Concrete Drain Manholes, each, the price of: _____	x 4 each =	\$ _____
	(\$ _____)		
29	48-inch Precast Concrete Drain Manholes - Additional Vertical Feet in excess of 5 feet, per vertical foot, the price of: _____	x 5 v.f. =	\$ _____
	(\$ _____)		
30	Remove and Replace Catch Basins, each, the price of: _____	x 3 each =	\$ _____
	(\$ _____)		
31	HDPE Drain Pipe, per linear foot, the price of: _____	x 500 l.f. =	\$ _____
	(\$ _____)		
32	Controlled Density Fill, per cubic foot, the price of: _____	x 100 c.f. =	\$ _____
	(\$ _____)		
33	Culvert Replacement, per lump sum, the price of: _____	lump sum =	\$ _____
	(\$ _____)		
34	Temporary Bituminous Concrete Pavement Repair, per square yard, the price of: _____	x 2,600 s.y. =	\$ _____
	(\$ _____)		

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
35	Permanent Bituminous Concrete Pavement Repair, per square yard, the price of: _____	x 3,250 s.y. =	\$ _____
	(\$ _____)		
36	Bituminous Concrete Sidewalk and Driveway Repair, per square yard, the price of: _____	x 50 s.y. =	\$ _____
	(\$ _____)		
37	Portland Cement Concrete Sidewalk and Driveway Repair, per square yard, the price of: _____	x 50 s.y. =	\$ _____
	(\$ _____)		
38	Bituminous Concrete Berm, per linear foot, the price of: _____	x 100 l.f. =	\$ _____
	(\$ _____)		
39	Portland Cement Concrete Curb, per linear foot, the price of: _____	x 50 l.f. =	\$ _____
	(\$ _____)		
40	Loam and Seed, per square yard, the price of: _____	x 1,000 s.y. =	\$ _____
	(\$ _____)		
41	Tree Removal, each, the price of: _____	x 3 each =	\$ _____
	(\$ _____)		

Item Number	Item Name and Unit Bid Prices Written in Words and Figures	Estimated Quantity	Total Amount of Item (in figures)
42	Red Maple or Green Ash Tree, each, the price of: _____	x 2 each =	\$ _____
	(\$ _____)		
43	Sergeant Cherry, Aristocrat Pear, or Japan Lilac Shrub, each, the price of: _____	x 2 each =	\$ _____
	(\$ _____)		
44	Removal of soil containing arsenic, per cubic yard, the price of: _____	x 1,000 c.y. =	\$ _____
	(\$ _____)		

TOTAL AMOUNT OF BID - Items 1 through 44

_____ dollars

(words)

(\$ _____)

(figures)

5.2 This Bid includes Addenda numbered _____.

ARTICLE 6 - TIME OF COMPLETION

6.1 Bidder agrees that the Work will be substantially completed and completed and ready for final payment in accordance with paragraph 14.07.B of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.2 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement.

ARTICLE 7 - ATTACHMENTS TO THIS BID

7.1 The following documents are attached to and made a condition of this Bid:

- A. Bid deposit in the amount of _____ dollars (\$ _____), consisting of a bid bond or certified check, in the amount of five percent of the total amount of bid.
- B. Certified copy of Resolution of Board of Directors (if Corporation)
- C. List of Subcontractors
- D. Statement acknowledging Bidders' obligation to meet the MBE requirements as outlined in Rhode Island G.L.37-14.1.

ARTICLE 8 - BID SUBMITTAL

8.1 The Bid is submitted by:

Date _____

(Print Name of Firm Submitting a General Bid)

(Signature of Authorized Representative)

(Print Name of Person Signing Bid and Title)

Social Security Number or

Federal Identification Number: _____
(Business Address)

(City, State and Zip Code)

Phone #: _____

Fax #: _____

E-mail: _____

If BIDDER is:

An Individual

By _____

(Individual's Signature)

(Printed or Typed Name of Individual)

Doing Business as _____

License or Registration Number: _____

Business Address: _____

Phone #: _____

Fax #: _____

Email: _____

A Partnership

By _____

(Firm's Name)

By _____

(Partner's Signature)

(Printed or Typed Name and Title of Partner)

License or Registration Number: _____

Business Address: _____

Phone #: _____

Fax #: _____

Email: _____

A Corporation

By _____

(Corporation's Name)

(State of Incorporation)

By _____

(Signature of Officer Authorized to Sign)

(Printed or Typed Name and Title of Officer Authorized to Sign)

(CORPORATE SEAL)

Attest _____

(Secretary)

License or Registration Number: _____

Business Address: _____

Phone #: _____

Fax #: _____

Email: _____

A Joint Venture

By _____

(Signature)

(Printed or Typed Name)

(Address)

Phone #: _____

Fax #: _____

Email: _____

By _____

(Signature)

(Printed or Typed Name)

(Address)

Phone #: _____

Fax #: _____

Email: _____

(Each joint venture must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

END OF SECTION

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Section 01270 – Measurement and Payment

SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 DIVISION 0 AND DIVISION 1 WORK INCIDENTAL TO THE CONTRACT PRICE

- A. No separate measurement or payment will be made for Work called for in Division 0 or Division 1 of the Specifications, unless specifically covered under the Bid items listed below. All costs associated with this Work will be considered incidental to the Contract Bid price.
- B. Division 2 through Division 13 Work will be measured and paid for at the Contractor's unit Bid price or lump sum item cost as indicated on the Bid form. Those payable Work items, and related prices as Bid, will be the basis for all compensation to the Contractor for Work performed under this Contract. Work not specifically included as a Bid item, but which is required to properly and satisfactorily complete the Work is considered ancillary and incidental to the Bid item Work, and payment for such Work is considered to be included in the values as Bid for payable items. Compensation for all unit Bid price Work will be made based on the measured quantity of Work under the appropriate Bid items.

1.2 MOBILIZATION AND DEMOBILIZATION (ITEM 1)

- A. Measurement
 - 1. There will be no measurement for the mobilization and demobilization to the Site as this Work will be on a lump sum basis.
- B. Payment
 - 1. Payment of the lump sum Bid price will be paid in two equal installments. The first installment will occur at the time the first payment requisition is submitted after the Contractor has initiated full-time construction activity. The second installation will be paid when the Contractor has completed all construction activity including final cleanup and punchlist items. In no case will the total of both installments exceed 5 percent of the Bid price.

1.3 POLICE DETAIL ALLOWANCE (ITEM 2)

- A. Measurement
 - 1. There will be no measurement for police details charges. This item is an allowance for reimbursement to the Contractor.
- B. Payment
 - 1. The Contractor will be reimbursed for the actual charges associated with the police details, based on the police invoices submitted to the Engineer.
 - 2. There will be no markup allowed under this item.

1.4 TRAFFIC CONTROL (ITEM 3)**A. Measurement**

1. There will be no measurement for traffic control as this Work will be on a lump sum basis.

B. Payment

1. Payment of the lump sum Bid price will be full compensation for all labor, equipment and materials required for or incidental to the traffic control Work.
2. Payments will be made on a monthly basis as a percentage of the lump sum Bid and the amount of Work for that particular month.

1.5 PIPELINE AND MANHOLE ABANDONMENT (ITEM 4)**A. Measurement**

1. There will be no measurement for pipeline and manhole abandonment as this Work will be on a lump sum basis.

B. Payment

1. Payment of the lump sum Bid price for abandonment of all existing pipelines and manholes will be full compensation for all labor, equipment, and materials required for or incidental to the Work.

1.6 HAYBALES/SILTATION FENCING (ITEM 5)**A. Measurement**

1. Measurement for haybales/siltation fencing will be on a linear foot basis. The length of haybales and siltation fence will be the actual approved length of haybales and siltation fence measured in place by the Engineer.

B. Payment

1. Payment of the Bid price for haybales/siltation fencing will be full compensation for the installation and removal of the haybales and siltation fence, and the restoration of the area disturbed by their placement including all labor, equipment and materials required for or incidental to the Work.

1.7 TEST PITS (ITEM 6)**A. Measurement**

1. Measurement for test pits will be on a cubic yard basis as approved and measured in the field by the Engineer.

B. Payment

1. Payment of the Bid price for test pits will be full compensation for all cutting of surfaces, excavation, backfill, compaction, dewatering, sheeting and bracing, required measurements, and all labor, equipment and materials required for incidental to the Work.

2. Test pits excavated under the Sanitary Sewer Service Location/Investigation item (Item 26) will not be paid under this item.

1.8 EXCAVATION BELOW NORMAL GRADE – UNSUITABLE MATERIAL (ITEM 7)

A. Measurement

1. Measurement for excavation below normal grade of unsuitable material will be on a cubic yard basis of earth excavated below the normal grade of excavation to install the pipeline or manhole as approved and measured by the Engineer. Measurement limits for payment purposes shall be as shown on the "Trench Paylines" Detail on the Drawings.
2. For plastic pipe, the normal grade is defined as the stone bedding subgrade. For concrete and ductile iron pipe, the normal grade is defined as the pipe invert. For structures, measurement shall be from below the bottom of the structure.

B. Payment

1. Payment of the Bid price for below invert grade excavation will be full compensation for all excavation, removal and proper off-site disposal of the material, placing and removing sheeting or bracing, and all labor, equipment and materials required for or incidental to the Work.
2. Excavation and disposal of material removed to install pipe bedding is included under the sewer pipe items.

1.9 ROCK EXCAVATION (ITEMS 8 AND 9)

A. Measurement

1. Measurement for rock excavation will be on a cubic yard basis as measured in the field by the Engineer. Measurement limits for payment purposes shall be as shown on the "Trench Paylines" Detail on the Drawings.
2. Rock with earth overburden shall be stripped of earth and exposed so that the rock can be profiled prior to removal. Excavation between the surface and the top of rock will be paid for under the applicable sewer pipe items

Payment

1. Payment of the Bid price for rock excavation will be full compensation for all excavation, backfill, compaction, removal and proper off-site disposal of the material, all survey profiling costs and all labor, equipment and materials required for or incidental to the Work.
2. Rock excavated using mechanical means, including boulders greater than 1 cubic yard, will be paid under Item 8.
3. Rock excavated using blasting will be paid under Item 9.
4. Boulders less than 1 cubic yard will be considered incidental to excavation and will be paid for under the appropriate item.

5. Payment for rock excavation will be at the Bid price regardless of the depth at which it is encountered.

1.10 PROCESSED GRAVEL BORROW (ITEM 10)

A. Measurement

1. Measurement for processed gravel borrow will be on a cubic yard basis. The depth of processed gravel borrow shall be the actual depth placed in the completed Work, but in no case shall this exceed the depth approved by the Engineer. Width measurement limits for payment purposes shall be as shown on the "Trench Paylines" Detail on the Drawings.

B. Payment

1. Payment of the Bid price for processed gravel borrow will be full compensation for furnishing, hauling, placing, spreading, and compacting, and include all labor, equipment and materials required for or incidental to the Work.
2. Payment of the Bid price shall not include processed gravel for road base. Payment for road base gravel is included in the applicable pavement repair item.

1.11 BROKEN STONE BORROW (ITEM 11)

A. Measurement

1. Measurement for broken stone borrow will be on a cubic yard basis. The depth of broken stone will be actual depth placed in the completed Work, but in no case will this exceed the depth approved by the Engineer. Width measurement limits for payment purposes shall be as shown on the "Trench Paylines" Detail on the Drawings.
2. Broken stone borrow that the Contractor uses as a method to control groundwater is at the Contractor's expense and will not be paid for under this item.
3. $\frac{3}{4}$ inch crushed stone used for PVC pipe bedding is to be included under the appropriate pipe items and will not be paid for under this item.

B. Payment

1. Payment of the Bid price for broken stone borrow will be full compensation for furnishing, hauling, placing, spreading, and compacting, and include all labor, equipment, and materials required for or incidental to the Work.

1.12 ORDINARY BORROW (ITEM 12)

A. Measurement

1. Measurement for ordinary borrow will be on a cubic yard basis. The depth of ordinary borrow will be actual depth placed in the completed Work, but in no case will this exceed the depth approved by the Engineer. Width measurement limits for payment purposes shall be as shown on the "Trench Paylines" Detail on the Drawings.

B. Payment

1. Payment of the Bid price for ordinary borrow will be full compensation for furnishing, hauling, placing, spreading, and compacting, and includes all labor, equipment, and materials required for or incidental to the Work.

1.13 SAND BORROW (ITEM 13)**A. Measurement**

1. Measurement for sand borrow will be on a cubic yard basis. The depth of sand will be actual depth placed in the completed Work, but in no case will this exceed the depth approved by the Engineer. Width measurement limits for payment purposes shall be as shown on the "Trench Paylines" Detail on the Drawings.

B. Payment

1. Payment of the Bid price for sand borrow will be full compensation for furnishing, hauling, placing, spreading, compacting including all labor, equipment, and materials required for or incidental to the Work.

1.14 8-INCH MAINLINE PVC SDR-35 GRAVITY PIPE (ITEM 14)**A. Measurement**

1. Measurement for mainline PVC gravity pipe will be on a linear foot basis and will be along the ground surface above and parallel to the pipeline from and to the inside face of structures. No deductions will be made for the length of fittings.
2. 3/4 inch crushed stone required for PVC gravity pipe bedding and backfill to 6 inches above the pipe will be included as part of the installation cost of mainline PVC pipe.

B. Payment

1. Payment of the Bid price for mainline PVC gravity pipe will be full compensation for all surface cutting, excavation, backfill, compaction, dewatering; clearing and grubbing, maintaining existing utilities; providing and testing of all pipes, 3/4 inch crushed stone, warning tape, and all labor, equipment and materials required for or incidental to the Work.
2. A 10 percent retainage will be held on payment for this item until the required leakage testing Work is complete and satisfactory to the Engineer.

1.15 PRECAST CONCRETE SEWER MANHOLES (ITEMS 15 THROUGH 16)**A. Measurement**

1. Measurement for 48 inch diameter precast concrete sewer manholes will be a count of the number of precast concrete sewer manholes provided. (Item 15)

2. Measurement for vertical feet of 48 inch diameter precast concrete sewer manholes in excess of 5 vertical feet will be the total depth of the manhole from the top of the frame and cover to the lowest pipe invert less 5 feet. (Item 16)

B. Payment

1. Payment of the Bid price for each 48-inch precast concrete sewer manholes will be full compensation for the structure, frame and cover, waterproofing, invert, installation, testing, adjustment of frame and cover prior to paving, all surface cutting, excavation, removal of existing structures, backfill, compaction, dewatering; clearing and grubbing, maintaining existing utilities; and all labor, equipment and materials required for or incidental to the Work (Item 15).
2. Payment of the Bid price for each vertical foot of a 48-inch precast concrete sewer manhole constructed in excess of 5 feet will be full compensation for all labor, equipment and materials required for or incidental to the Work (Item 16).
3. A 10 percent retainage will be held on payment for Items 15 through 16 until the required leakage testing Work is complete and satisfactory to the Engineer.

1.16 MANHOLE CHIMNEY (ITEM 17)

A. Measurement

1. Measurement for interior manhole chimneys will be a count of the number of manhole chimneys provided in accordance with the standard detail shown on the Drawings.

B. Payment

1. Payment of the Bid price for each interior manhole chimney will be full compensation for all labor, equipment and materials required for or incidental to the Work.

1.17 BREAKING INTO EXISTING MANHOLES AND CATCHBASINS (ITEM 18)

A. Measurement

1. Measurement for breaking into existing manholes and catchbasins will be a count of the number of manholes and catchbasins broken into for reconnection approved by the Engineer.

B. Payment

1. Payment of the Bid price for breaking into an existing manhole and catchbasin, pipe installation, rubber boot installation, and masonry repair of manhole wall and invert will be full compensation for all labor, equipment and materials required for or incidental to the Work.

1.18 SERVICE CONNECTION CHIMNEY (ITEM 19)**A. Measurement**

1. Measurement for service connection chimneys will be a count of the number of service connection chimneys provided and approved by the Engineer.

B. Payment

1. Payment of the Bid price for each service connection chimney completed in place will be full compensation for all labor, materials and equipment required for or incidental to the Work. The Bid price is for the incremental cost of a service connection chimney above that of a standard service connection tee.

1.19 6-INCH PVC SDR-35 SERVICE PIPE AND FITTINGS (ITEMS 20 THROUGH 21)**A. Measurement**

1. Measurements for PVC service pipe will be on a linear foot basis and will be along the ground surface above and parallel to the pipeline from the inside face of the mainline pipe or structure to the point of termination (end cap or connection to existing service pipe). No deductions will be made for the length of fittings. Allowances for the cost of bends shall be included in the pipe unit price (Item 20).
2. 3/4 inch crushed stone required for PVC gravity pipe bedding and backfill to 6 inches above the pipe will be included as part of the installation cost of 6-inch PVC service pipe and fittings.
3. All excavation required to install the PVC gravity service pipe will be included as part of the installation cost of the 6-inch PVC service pipe and fittings.
4. Measurement for 6-inch sanitary sewer service wye, regardless of the size of the main line, will be a count of the number of wyes provided (Item 21).

B. Payment

1. Payment of the Bid price for service pipe and fittings will be full compensation for all surface cutting, excavation, backfill, compaction, dewatering; clearing and grubbing, maintaining existing utilities; providing and testing of all pipes, 3/4 inch crushed stone, warning tape, and all labor, equipment and materials required for or incidental to the Work.
2. Payment of the Bid price for each wye specified will be full compensation for all installation costs, 3/4 inch crushed stone, and all labor, equipment, and materials required for or incidental to the Work.

1.20 SANITARY SEWER SERVICE CLEANOUT (ITEM 22)**A. Measurement**

1. Measurement for service cleanouts will be a count of the number of service cleanouts provided and approved by the Engineer.

B. Payment

1. Payment of the Bid price for each sewer service cleanout completed in place will be full compensation for all labor, materials, and equipment required for or incidental to the Work.

1.21 SANITARY SEWER SERVICE RECONNECTION (ITEM 23)**A. Measurement**

1. Measurement for sanitary sewer service reconnections will be a count of the number of sanitary sewer service reconnections provided and approved by the Engineer.

B. Payment

1. Payment of the Bid price for each sanitary sewer service reconnection will be full compensation for all transition fittings and/or adaptors, abandonment of the existing building service pipe no longer in service, and all labor, equipment and materials required for or incidental to the Work.
2. This item includes dye water testing, smoke testing, or other methods as needed to confirm that the pipe is a sanitary sewer service.

1.22 SANITARY SEWER SERVICE LOCATION/INVESTIGATION (ITEM 24)**A. Measurement**

1. Measurement for the sanitary sewer service location/investigation Work will be a count of the number of sanitary sewer services located using an electronic transmitter, hand held sanitary service CCTV camera or through test pit excavation as approved by the Engineer.

B. Payment

1. Payment of the Bid price for each sanitary sewer service successfully located, including any required pipe cleaning and/or removal of pipe obstructions and surface restoration, will be full compensation for all labor, equipment and materials required for or incidental to the Work.
2. Sanitary sewer service location/investigations that do not result in the successful location of the sewer service line will not be included in the count.
3. The location of sanitary sewer service alignment utilizing a television inspection service camera will be included in the count.
4. The location of the service connection at the sewer main through television inspection will not be included in the count.
5. Test pits to locate existing sanitary services will not be paid for separately under the "Test Pit" item.

1.23 TELEVISION INSPECTION AND VIDEO RECORDING OF EXISTING SANITARY SEWER MAIN PIPELINES (ITEM 25)**A. Measurement**

1. Measurement for television inspection and video recording of existing pipelines will be on a linear foot basis and will be made along the ground surface above and parallel to the pipeline from and to the inside surface of structures.
2. Heavy cleaning, defined as more than 3 passes of the jet hose, is included in this item and is considered incidental to the television inspection and video recording of existing pipelines.

B. Payment

1. Payment of the Bid price for pipe that has been television inspected and video recorded will be full compensation for any required preparatory cleaning, inspection, and video recording of the pipelines, and all labor, equipment and materials required for or incidental to the Work.
2. The location of sewer service alignments utilizing CCTV service camera's will be paid for under item 24 and will not be paid for under this item.

1.24 EXISTING SEWER SPOT REPAIR (ITEM 26)**A. Measurement**

1. Measurement for spot repairs of the existing sewer pipe as a result of CCTV investigation will be on a linear foot basis measured horizontally along the centerline of the sewer repaired.
2. 3/4 inch crushed stone required for PVC gravity pipe bedding and backfill to 6 inches above the pipe will be included as part of the installation cost of mainline PVC pipe.

B. Payment

1. Payment of the Bid price for spot repairs of existing sewers will be full compensation for all surface cutting, excavation, backfill, compaction, dewatering; clearing and grubbing, maintaining existing utilities; all transition fittings and/or adaptors, removal and disposal of the existing pipe, couplings, providing and testing of all pipes, 3/4 inch crushed stone, warning tape, and all labor, equipment and materials required for or incidental to the Work.

1.25 LINING OF EXISTING SEWERS (ITEM 27)**A. Measurement**

1. Measurement for lining the existing sewer pipe will be on a linear foot basis measured horizontally along the centerline of the sewer lined, from and to the inside face of the structures.

B. Payment

1. Payment of the Bid price for each linear foot of sewer pipe lined swill be full will be full compensation for the installation and curing of the liner, post-rehabilitation television inspection, bypass pumping, reinstating all services, testing and all labor, equipment and materials required for or incidental to the Work.

1.26 PRECAST CONCRETE DRAIN MANHOLES (ITEMS 28 THROUGH 29)**A. Measurement**

1. Measurement for 48 inch diameter precast concrete drain manholes will be a count of the number of precast concrete sewer manholes provided. (Item 28)
2. Measurement for vertical feet of 48 inch diameter precast concrete drain manholes in excess of 5 vertical feet will be the total depth of the manhole from the top of the frame and cover to the lowest pipe invert less 5 feet. (Item 29)

B. Payment

1. Payment of the Bid price for each 48-inch precast concrete drain manholes will be full compensation for the structure, frame and cover, invert, installation, testing, adjustment of frame and cover prior to paving, and all labor, equipment and materials required for or incidental to the Work. (Item 28).
2. Payment of the Bid price for each vertical foot of a 48-inch precast concrete drain manhole constructed in excess of 5 feet will be full compensation for all labor, equipment and materials required for or incidental to the Work. (Item 29).
3. A 10 percent retainage will be held on payment for Items 28 through 29 until the required leakage testing Work is complete and satisfactory to the Engineer.

1.27 REMOVE AND REPLACE CATCHBASINS (ITEM 30)**A. Measurement**

1. Measurement for the removal and replacement of an existing catchbasin will be a count of the number of catchbasins removed and replaced.

B. Payment

1. Payment of the Bid price for the removal and replacement of an existing catchbasin will be full compensation for excavation, removal and proper disposal of the old structure; providing the new structure including sump, hood, frame and grate; installation; adjustment of frame and grate prior to paving; and all labor, equipment and materials required for or incidental to the Work.

1.28 HDPE H-20 DRAIN PIPE (ITEM 31)**A. Measurement**

1. Measurement for HDPE drain pipe will be on a linear foot basis and will be along the ground surface above and parallel to the pipeline from and to the inside face of structures. No deductions will be made for the length of fittings.

B. Payment

1. Payment of the Bid price for HDPE pipe will be full compensation for providing and testing of all pipes, surface cutting, dewatering, excavation, compaction, testing, warning tape, and all labor, equipment and materials required for or incidental to the Work.

1.29 CONTROLLED DENSITY FILL (ITEM 32)**A. Measurement**

1. Measurement for controlled density fill will be on a cubic yard basis. The width to be paid for will be the actual width of controlled density fill placed, but in no case will payment be made for controlled density fill placed greater in width than that shown on the "Trench Paylines" Detail on the Drawings. The length and depth of controlled density fill to be paid for will be the actual length and depth placed in the completed Work, but in no case will this exceed the length and depth approved by the Engineer.

B. Payment

1. Payment of the Bid price for controlled density fill will be full compensation for furnishing, hauling, and placing the fill including the placement and removal of steel plates and required trench bulkheads, and all labor, equipment and materials required for or incidental to the Work.
2. Payment for controlled density fill will also include the hauling and off-site disposal of the material being replaced by the controlled density fill.

1.30 CULVERT REPLACEMENT (ITEM 33)**A. Measurement**

1. There will be no measurement for culvert replacement as this Work will be on a lump sum basis.

B. Payment

1. Payment of the Bid price for culvert replacement will be full compensation for all labor, equipment and materials required for or incidental to the 20-inch CMP and 12-inch CMP culvert replacement. Work under this item includes sawcutting, excavation, compaction, pavement removal and disposal, temporary pavement repair, permanent pavement repair, tack coat, removal of the existing culverts, in-kind installation of new HDPE culvert, reinforced concrete flared end sections, rip rap scour pad, dewatering, erosion control measures, restoration, seeding, mulching, warning tape, temporary

stabilization, and all labor, equipment and materials required for or incidental to the Work.

2. Removal and replacement of existing catchbasin connected to the culverts will be paid for under the appropriate remove and replace catchbasin item.

1.31 TEMPORARY BITUMINOUS CONCRETE PAVEMENT REPAIR (ITEM 34)

A. Measurement

1. Measurement for temporary bituminous concrete pavement repair will be on a square yard basis as measured in the field by the Engineer. The length of the repair will be the actual length of the trench repaired. The width will be the actual width of repair made, but in no case will payment be made for trench repair greater in width than that shown on the "Trench Paylines Detail" on the Drawings.
2. Any cold patching required is considered incidental to this item and will not be measured for payment.

B. Payment

1. Payment of the Bid price for temporary bituminous concrete pavement repair, including processed gravel base, pavement marking replacement, tack coat, will be full compensation for furnishing, hauling, placing, spreading, and compacting the gravel base and bituminous concrete, necessary adjustment of rim elevations for catchbasins, manholes, gate box covers and other utility adjustments, and all labor, equipment and materials required for or incidental to the Work.
2. Asphalt escalation is considered incidental to this item and will not be paid for.

1.32 PERMANENT BITUMINOUS CONCRETE PAVEMENT REPAIR (ITEM 35)

A. Measurement

1. Measurement for permanent bituminous concrete pavement repair will be on a square yard basis as measured in the field by the Engineer. The length of the repair will be the actual length of the trench repaired. The width will be the actual width of repair made, but in no case will payment be made for trench repair greater in width than that shown on the "Trench Paylines" Detail on the Drawings.

B. Payment

1. Payment of the Bid price for permanent bituminous concrete pavement repair will be full compensation for saw cutting, removal of the temporary repair and existing pavement, pavement marking replacement, tack coat, preparation of the sub base, and furnishing, hauling, placing, spreading, and compacting the bituminous concrete, necessary adjustment of rim elevations for catchbasins, manholes, gate box covers and other utility adjustments including all labor, equipment and materials required for or incidental to the Work.

2. Asphalt escalation is considered incidental to this item and will not be paid for.

1.33 BITUMINOUS CONCRETE SIDEWALK AND DRIVEWAY REPAIR (ITEM 36)

A. Measurement

1. Measurement for bituminous concrete sidewalk and driveway repair will be on a square yard basis as measured in the field by the Engineer. The length of the repair will be the actual length of the trench repaired. The width will be the actual width of repair made, but in no case will payment be made for trench repair greater in width than that shown on the "Trench Paylines" Detail on the Drawings

B. Payment

1. Payment of the Bid price for bituminous concrete sidewalk and driveway paving repair, including gravel base and installation and removal of a temporary repair, will be full compensation for furnishing, hauling, placing, spreading, and compacting the bituminous concrete, and all labor, equipment and materials required for or incidental to the Work.

1.34 PORTLAND CEMENT CONCRETE SIDEWALK AND DRIVEWAY REPAIR (ITEM 37)

A. Measurement

1. Measurement for Portland cement concrete sidewalk and driveway repair will be on a square yard basis as measured in the field by the Engineer. The length of the repair will be the actual length of the trench repaired. The width will be the actual width of repair made, but in no case will payment be made for trench repairs greater in width than that shown on the "Trench Paylines" detail on the Drawings, except when the repair is extended to the next panel joint as ordered by the Engineer

B. Payment

1. Payment of the Bid price for Portland cement concrete sidewalk and driveway repair, including gravel base and installation and removal of a temporary repair, will be full compensation for furnishing, hauling, placing, spreading, finishing and curing the concrete, and all labor, equipment and materials required for or incidental to the Work.

1.35 BITUMINOUS CONCRETE BERM (ITEM 38)

A. Measurement

1. Measurement for bituminous concrete berm will be on a linear foot basis as measured in the field by the Engineer. The length of berm will be the actual length of berm replaced within the paylines shown on the "Trench Paylines" Detail on the Drawings.

B. Payment

1. Payment of the Bid price for bituminous concrete berm, including gravel base and all required backup material (gravel or loaming and seeding) will be full compensation for all labor, equipment and materials required for or incidental to the Work.

1.36 PORTLAND CEMENT CONCRETE CURB REMOVED AND RESET (ITEM 39)**A. Measurement**

1. Measurement for Portland cement concrete curb removed and reset will be on a linear foot basis as measured in the field by the Engineer. The length will be the actual length of repair made within the paylines shown on the "Trench Paylines" Detail on the Drawings except when the repair is extended one joint beyond the limit.

B. Payment

1. Payment of the Bid price for Portland cement concrete curb removed and reset, including gravel base, new concrete curb, concrete backing, and all required backup material (gravel or loaming and seeding) will be full compensation for furnishing, hauling, and placing, and all labor, equipment and materials required for or incidental to the Work.

1.37 LOAM AND SEED (ITEM 40)**A. Measurement**

1. Measurement for loam and seed will be on a square yard basis as measured in the field by the Engineer. The length of the repair will be the actual length of the trench loamed and seeded. The width will be limited to that shown on the "Trench Paylines" Detail or the actual width of repair, whichever is less.
2. Measurement for payment under this item will be for loam and seed Work as required for lawn restoration and/or for "lawn quality" restoration of disturbed areas, based on project paylines. Restoration of all other unpaved areas will be as "vegetative cover" using salvaged topsoil material and erosion control planting to restore the site to its original condition and/or to establish a satisfactory vegetative cover.
3. Placement of vegetative cover is incidental to the Contractor's excavation and other Work on this project. No separate measurement or payment for this Work will be made under this contract.

B. Payment

1. Payment of the Bid price for loam and seed will be made in two installments and will be full compensation for all labor, equipment, and materials required for or incidental to the Work. Loaming and seeding outside of the designated paylines may be required, but will not be paid for under this item.

2. Payment of the Bid price for this Item will be broken down into two installments. 60% of the Bid price will be paid upon the initial placement of the loaming and seeding. The remaining 40% will be paid upon grass establishment and final acceptance.

1.38 TREE REMOVAL (ITEM 41)

A. Measurement

1. Measurement for trees greater than 4" in diameter removed will be a count of the number of trees greater than 4" diameter trees removed.

B. Payment

1. Payment of the Bid price for each tree greater than 4" in diameter removed will be full compensation for all labor, equipment, and materials required for or incidental to the Work.
2. There will be no Payment the removal of trees less than 4" in diameter. All labor, equipment, and materials required to remove trees less than 4" in diameter is considered incidental to the project.

1.39 RED MAPLE OR GREEN ASH TREE (ITEM 42)

A. Measurement

1. Measurement for will be will be a count of the number of 2.5" minimum caliper red maple or green ash trees provided.

B. Payment

1. Payment of the bid price for each 2.5" minimum caliper red maple or green ash tree will be full compensation for providing the tree; planting; and all labor, equipment and materials required for or incidental to the Work.

1.40 SERGEANT CHERRY, ARISTOCRAT PEAR, OR JAPAN LILAC SHRUB (ITEM 43)

A. Measurement

1. Measurement for will be will be a count of the number of sergeant cherry (2.5" minimum caliper), aristocrat pear (2.5" minimum caliper), or Japan lilac shrubs (4' minimum height) provided.

B. Payment

1. Payment of the bid price for each sergeant cherry, aristocrat pear, or Japan lilac shrub will be full compensation for providing the shrub; planting; and all labor, equipment and materials required for or incidental to the Work.

1.41 REMOVAL OF SOIL CONTAINING ARSENIC (ITEM 44)**A. Measurement**

1. Measurement for the removal of soil containing arsenic will be on a cubic yard basis. The volume of the soil removed will be the measure of the actual depth removed during excavation, but in no case will this exceed the depth approved by the Engineer. Width measurement limits for payment purposes shall be as shown on the "Trench Paylines" Detail on the Drawings.
2. Measurement will not be based on the bill of laden slips that have either the tonnage or volume of disposed soil.

B. Payment

1. Payment of the Bid price for the removal of soil containing arsenic will be full compensation for testing, licensed personnel, removal, hauling, proper disposal, including a bill of laden, and includes all labor, equipment, and materials required for or incidental to the Work.

PART 2 PRODUCTS - NOT USED**PART 3 EXECUTION - NOT USED****END OF SECTION**

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Section 02110 – Contaminated Soil Excavation

SECTION 02110

CONTAMINATED SOIL EXCAVATION

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes

1. Excavation, handling, stockpiling, and temporary storage of Contaminated Soil
2. Movement and placement of Contaminated Soil into a temporary controlled stockpile area
3. Decontamination of tools, equipment, and vehicles and the collection, management and disposal of resulting liquids and/or solids
4. Other work involving the handling of contaminated materials which may be required including but not limited to miscellaneous facility component removal, removal of obstructions, excavation support systems, and any incidental work related thereto

B. Related Sections

1. Section 02120 - Transportation and Disposal of Contaminated Soil
2. Section 02315 - Excavation, Backfill, Compaction and Dewatering

1.2 REFERENCES

- A. Soil Management Plan (attached)
- B. Rhode Island Department of Environmental Management, Remediation Regulations
- C. 40 CFR Part 261, Identification and Listing of Hazardous Waste
- D. 40 CFR Part 268, Land Disposal Restrictions

1.3 DEFINITIONS

- A. Natural Soil: Soil in which all substances naturally occurring therein are present in concentrations not exceeding the concentrations of such substance occurring naturally in the environment and in which soil no other substance is analytically detectable.
- B. Contaminated Soil: Soils or fills determined by analytical results to contain oil and/or hazardous material at concentrations equal to or greater than a release notification threshold established by Rhode Island Department of Environmental Management Remediation Regulations.
- C. Special Handling: Methods used to excavate, collect, grade, load, move, transport, stockpile, dispose, or otherwise manage a contaminated material or Contaminated Soil are such that (1) the spillage, loss, co-mingling, or uncontrolled deposition of such material is minimized, (2) personal exposure to contaminants present in such a material are minimized, (3) the adverse impacts to the community and the

surrounding environment from contaminants present in such material are minimized,
(4) all applicable regulatory requirements applicable to such activity are satisfied.

1.4 QUALITY ASSURANCE

- A. All contaminated material excavated or otherwise collected, consolidated and managed during the course of the work will require Special Handling in accordance with these specifications, Contractor Health and Safety Plan, and all applicable permits, approvals, authorizations, and Regulations.
- B. Perform the handling of contaminated materials with equipment and techniques in accordance with the performance requirements defined in this specification, and all applicable regulations.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.1 GENERAL

- A. Contractor shall comply with the requirements within the attached Soil Management Plan.
- B. Provide all employees and subcontractor(s) with personal protective equipment and protective clothing consistent with the levels of protection for this work as indicated in Contractor's Health and Safety Plan.
- C. Perform all contaminated material handling operations in accordance with standard engineering practices applicable to such activity, according to Rhode Island Department of Environmental Management regulations, and according to the provisions of Contractor Health and Safety Plan. Utilize methods which consider the health and safety of all Contractor and subcontractor personnel, support personnel, Engineer and his representatives, and the surrounding environment.
- D. All site health and safety controls shall be fully established and in operation prior to beginning any contaminated material handling activity. Site controls shall include but not be limited to work zones properly barricaded, decontamination facilities, air monitoring, and all support equipment and supplies including personal protective equipment.
- E. Minimize the spread of contaminated materials during handling. Transport vehicles used to move Contaminated Soil at the Project Site shall be free from leaks. Trucks or other conveyances deemed unacceptable for use by Engineer shall not be used for the movement of contaminated materials.
- F. Keep work areas, including but not limited to, areas adjacent to excavations, roadways leading to and from excavation areas, driveways, parking areas, and public roadways free of contaminated materials. If such materials are deposited, spilled, or spread, such material shall be removed promptly, and properly disposed of to the satisfaction of Engineer no later than the end of each working day or as requested by Engineer.
- G. Owner is the generator and will sign all manifests and bills of lading. Except for materials required to be transported under manifest, transport all Contaminated Soil material under bills of lading regardless of the chemical quality of the soils.

3.2 EXCAVATION OF CONTAMINATED MATERIALS

- A. Perform excavation in accordance with the requirements of Section 02315, Excavation, Backfill, Compaction and Dewatering, and this section.
- B. Excavate contaminated soil to limits required to install sewer and drain utilities and as requested by the Engineer.
- C. Minimize the spread and loss of contaminated materials during excavation activities.
 - 1. Following excavation, transport contaminated materials directly to the temporary controlled stockpile area for stockpiling. Excavated contaminated materials shall not be placed directly on the ground.
- D. Employ methods necessary to isolate contaminated materials from non-contaminated soils to the degree practicable.
- E. Segregate construction debris from excavated contaminated materials at the point of excavation, prior to the movement of contaminated materials from excavation areas. Engineer may evaluate debris during excavation to determine if such material can be designated uncontaminated general demolition material.
- F. Open excavations represent a substantial hazard. Contractor shall implement measures as appropriate to temporarily secure open excavations. All excavations shall be backfilled at the end of the work day. Implement measures to divert surface water around excavation sites to prevent water from directly entering into open excavations.

3.3 BACKFILL

- A. Backfill excavations in accordance with Section 02315, Excavation, Backfill & Compaction and Dewatering.
- B. Backfill excavations as soon as possible after Engineer has indicated that test results confirm remediation objectives have been achieved and backfilling may proceed.

3.4 UNFORESEEN CONTAMINATED MATERIALS

- A. In the event that unforeseen contaminated materials are encountered during the course of the work, permit the Engineer sufficient time to devise an appropriate course of action based upon the conditions present.
 - 1. Until such appropriate course of action is devised, Contractor shall secure the work area in question such that it does not pose a health and safety risk.
 - 2. Engineer will provide Contractor with a scope of work and performance requirements for the collection, consolidation, removal or excavation of unforeseen contaminated material. Contractor shall then undertake contaminated material remediation with equipment and techniques established by Contractor in accordance with said scope of work and performance requirements.
- B. Contaminated material remediation shall be performed in accordance with scope of work outlined in Item 3.4.A.2 and in accordance with this specification.

3.5 CONFIRMATION TESTING BY ENGINEER

- A. At such time the Engineer is satisfied that the limits of contaminated material have been reached, Engineer will perform appropriate confirmation sampling to confirm remediation objectives have been achieved and no additional contaminated material excavation or removal is required.
- B. Contractor is hereby notified that laboratory turnaround time for the analysis of confirmation samples may be up to 5 working days from date of collection. No claim for delay will be considered based upon Contractor failing to accommodate the laboratory turnaround time as defined herein.
- C. Engineer will inform Contractor if test results confirm remediation objectives have been achieved and backfilling may proceed.
- D. Should the results of Engineer's testing indicate additional contaminated material excavation or removal is required, Engineer will define those areas beyond the limits originally indicated where additional contaminated material excavation or removal shall be required.

3.6 STORAGE OF EXCAVATED MATERIALS

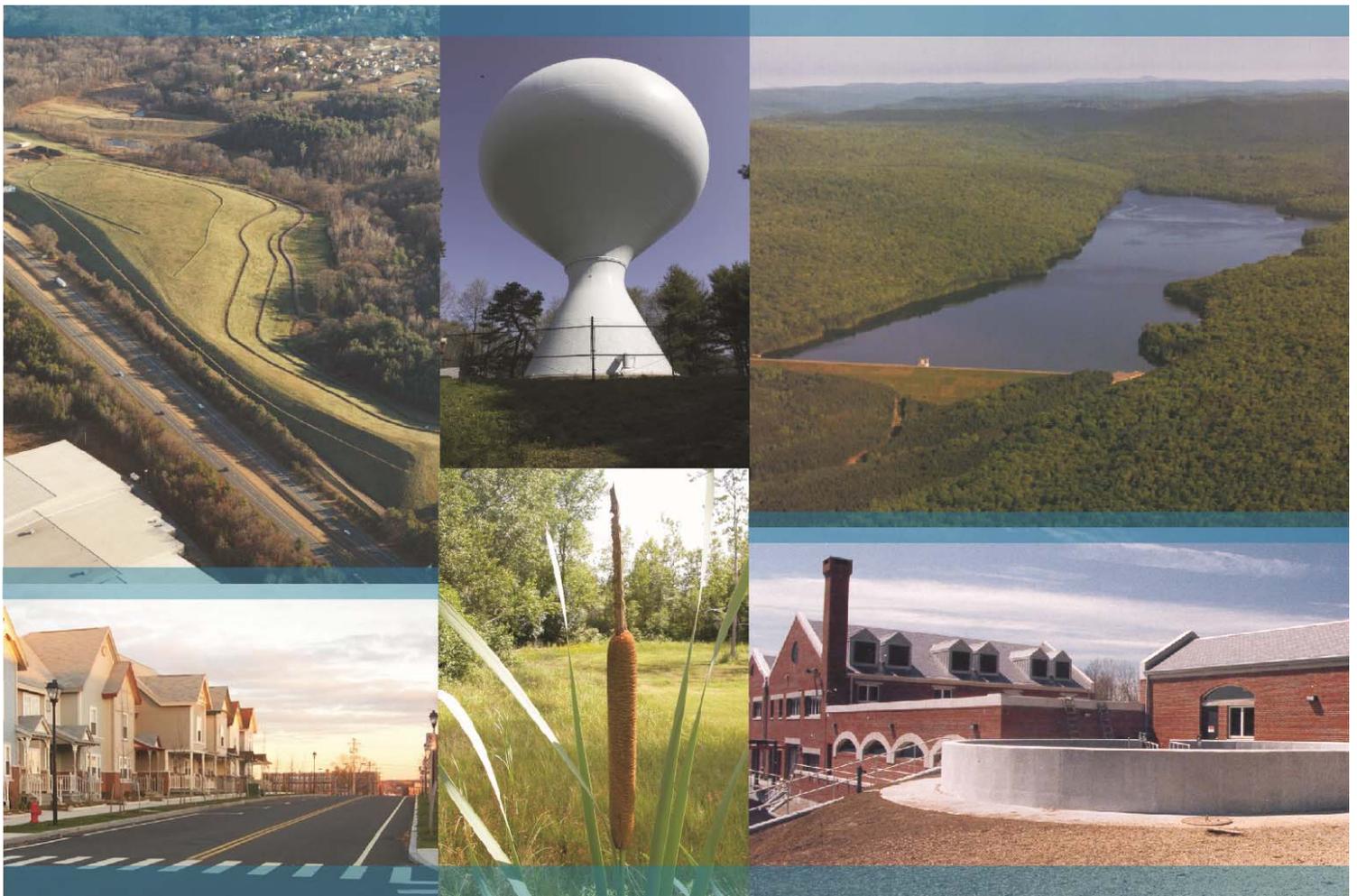
- A. Excavated contaminated material shall be temporarily stockpiled on-site. Stockpile contaminated soils in an area designated by the Engineer in such a manner to protect existing site surface, materials and structures from contamination, runoff and erosion. Place the contaminated soil on a minimum of 6 mil polyethylene sheeting and at the end of each day the stockpiled soil shall be covered with 6 mil polyethylene sheeting and secure the covering to prevent the stockpile from becoming uncovered due to winds.

3.7 DUST CONTROL

- A. Implement fugitive dust suppression to prevent unacceptable levels of dust resulting from handling operations associated with contaminated materials. Dust suppression methods shall be subject to approval from Engineer. Supervise fugitive dust control measures and monitor airborne particulate matter as required.

END OF SECTION

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Tighe&Bond

East Campus Sewer Improvements

Soil Management Plan

Prepared For:

**Rhode Island College
Providence, Rhode Island**

October 30, 2013

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Section 1

Introduction

Tighe & Bond has prepared this *Soil Management Plan* (SMP) for Rhode Island College for the management activities specific to the improvements of the existing drainage and sewer infrastructure on the east campus of Rhode Island College. This document is supplemental to the East Campus Sewer Improvement Project Construction Documents. Tighe & Bond has prepared the following SMP for the excavation, stockpiling, management and off-Site disposal and/or re-use of soils at the Site.

During previous soil investigations completed at the college, but not in proximity to or associated with this investigation, elevated arsenic concentrations have been identified in soil at concentrations above the Rhode Island Department of Environmental Management (RIDEM) Residential Direct Exposure Criterion of 7 milligrams-per-kilogram (mg/kg). According to previous documentation, no other contaminants were detected at levels above the applicable regulatory criteria, and the elevated arsenic was attributed to natural background conditions. RIDEM was notified of the previous arsenic concentrations identified at the college. No analytical data from the proposed areas of excavation associated with this project have been collected to date.

As described in this SMP, the contractor shall assume that all soils managed during this project may contain elevated arsenic concentrations unless analytical testing has been completed in accordance with this SMP. In addition, excess soil shall not be transported off- site unless in accordance with the SMP.

Section 2

Soil Management

2.1 Soil Management Procedures

The following procedures should be followed during the excavation, stockpiling, management and re-use of soils at the Site. Site activities should also conform to the bid documents associated with the East Campus Sewer Improvement project.

Pre-Excavation Activities

1. A minimum of 72 hours prior to conducting any site grading or excavation, DIGSAFE should be contacted to obtain a valid DIGSAFE permit to inform public utility owners to locate and mark all underground utilities in the proposed work zone. Additionally, there are some campus owned utilities that will need to be located utilizing an independent utility location company. The contractor is responsible for coordinating and hiring a sub-contractor to perform the services as Rhode Island College will not perform any utility location. The Site contractor shall coordinate with local authorities to obtain the location of utilities unmarked by DIGSAFE (typically municipal water and sewer lines) at least 72 hours prior to excavation. When Site activities approach the location of any underground utility, the exact location shall be determined by safe and acceptable means. Any underground utility lines exposed in the excavation will be protected, supported, or removed. If an

unmarked underground utility is encountered, the contractor shall cease work immediately and notify the owner of the utility for further instruction.

2. Prior to excavation, all staff working at the Site, including the contractor must prepare and familiarize themselves with their Site specific Health and Safety Plan (HASP). Each contractor performing tasks at the Site should have their own HASP applicable to their personnel. Tighe & Bond has not prepared a HASP for Site contractors and assumes no responsibility for the health and safety of Site contractors or their personnel.

Excavation Activities

1. Site activities should be planned to be completed within a secured area of the Site and access to the Site should be restricted during the project. Additionally, off-hour access to the Site will be controlled with a locking temporary construction fence.
2. Soil excavation and grading shall be conducted in accordance with applicable Site permits.
3. During excavation activities, dust suppression methods must be utilized when visible windblown dusts are generated. The excessive generation of dust must be managed during soil excavation, stockpiling and loading. If excessive dust generation cannot be controlled or mitigated, the activity should be discontinued until conditions improve. (See Section 2.2 for additional information.)
4. If the presence of oil or hazardous materials (OHM) or any other unforeseen condition is identified during excavation activities, Site activities will immediately stop. Contractors should contact the appropriate Environmental Professional and the Rhode Island College Project Manager prior to continuing Site activities. The appropriate Site contacts are provided in Section 4.
5. Excess excavated soils will be staged and temporarily stored in a designated area of the property for no more than 90 days. The storage location shall be selected to prevent unauthorized access to the materials.
6. Excess excavated soils will be stockpiled on polyethylene sheeting and/or stored in roll-off containers. Stockpiled or stored soils will be covered with polyethylene sheeting (6 mil minimum) prior to leaving the Site and at the end of each workday. Soil shall be securely stockpiled in order to prevent migration and erosion from the stockpile locations.
7. Soil stockpiles shall be inspected daily; and damage to the covers shall be repaired immediately.
8. The contractor shall take measures to control stormwater run-off of impacted/stockpiled soils, which may include, siltation fences and staked hay bales in the areas of the Site used for stockpiling.

On-Site Reuse Procedures:

Soil generated from Site excavations may be placed back into its original excavation for use as backfill during the Site activities. The contractor shall make all reasonable efforts to backfill soils the corresponding depth and location from which the soils were originally removed.

Decontamination Procedures

Non-disposable equipment used during the soil excavation activities, including excavators, loaders and soil transport vehicles) must be properly decontaminated in accordance with the Contractors decontamination procedures as appropriate prior to removal from the Site.

2.2 Dust Prevention

The Contractor will prepare a Dust Prevention Plan prior to beginning work. During excavation activities, dust suppression methods must be utilized when visible windblown dusts are generated. The excessive generation of dust must be managed during soil excavation, stockpiling and loading. If excessive dust generation cannot be controlled or mitigated, the activity should be discontinued until conditions improve.

The Contractor shall maintain a water truck(s) at the Site to control airborne dust during soil excavation, grading and other site development activities. Initiation of dust control measures will be at the direction of Rhode Island College, the Environmental Professional, and/or the Contractor. The Contractor shall use the water truck when the Site soils become dry and there is potential for airborne dust. The Contractor shall have a sufficient number of operable water trucks to maintain a moist soil surface at all areas of the Site where exposed soils exist. Additionally, the Contractor shall install and maintain the facilities to fill and maintain the water truck(s).

2.3 Confirmatory Soil Sampling

The stockpile locations shall be accessible to the Environmental Professional upon completion of the stockpiling activities to allow for soil sample collection. Soil analytical testing must be performed by a Rhode Island Department of Health approved laboratory. The testing program for off-site soil reuse/disposal must be completed in compliance with the permit requirements of the planned receiving facility. Approval from the Environmental Professional, Rhode Island College Project Manager and the proposed receiving facility representative must be acquired prior to soils leaving the Site.

At a minimum analytical testing should include the following:

Petroleum Hydrocarbons	EPA Method 8100M
Volatile Organic Compounds	EPA Method 8260
Semi-volatile Organic Compounds	EPA Method 8270
Polychlorinated Biphenyls	EPA Method 8081
Total RCRA 8 Metals	EPA Method 6010 & 7471A
Flashpoint	EPA Method 1010M
Corrosivity (pH)	EPA Method 9045C
Reactivity (Sulfide and Cyanide)	EPA Methods SW-846 7.3.3.2/9014 and SW-846 7.3.4.2/376.2

Soils Classifications

Based on the analytical results, soils may be categorized as the following:

Non-regulated - results are below the RIDEM Method 1 Residential Direct Exposure Criteria (RDEC). Soils in this category do not require special handling.

Regulated – results exceed the RDEC. These soils must be managed properly and taken to a permitted receiving facility.

Hazardous Waste – results exceed United States Environmental Protection Agency (US EPA) Resource Conservation and Recovery Act (RCRA) hazardous waste criteria. These soils are subject to US EPA RCRA regulations and must be transported and disposed of at a RCRA-permitted treatment, storage, disposal (TSD) facility in accordance with applicable regulations.

2.4 Groundwater Assessment and Dewatering

At this time the excavation activities are planned for a maximum of 15 feet below grade and it is anticipated that groundwater will be encountered in some locations during Site activities. Groundwater dewatering activities should be planned for the Site.

2.5 Off-Site Soil Disposal

This SMP proposes the reuse of the stockpiled soils on Site. Soils that cannot be reused on Site are subject to the following procedures;

1. Soil excavated from the Site may not be transported off-Site for re-use or disposal without prior approval from the Environmental Professional, Rhode Island College Project Manager and the proposed receiving facility representative.
2. Prior to off-site shipment, a pre-classification soil sample(s) will need to be analyzed in accordance with the selected disposal facilities requirements. Laboratory testing must be completed by the Environmental Professional.
3. Soil analytical testing must be performed by a Rhode Island Department of Health approved laboratory.
4. Soil data may indicate that soil subject to removal from the Site meets the Residential Direct Exposure Criteria (RDEC) for all constituents and may have multiple options for re-use. Soil data will likely contain elevated arsenic concentrations that exceed the RDEC and will be subject to off-Site disposal.
5. No soil shall leave the Site for re-use or disposal without the approval of the Environmental Professional, the Rhode Island College Project Manager and the proposed receiving facility.
6. If soil does not meet the RDEC and cannot be reused on-Site, the soil subject to off-Site disposal must be properly managed and disposed of off-Site at an appropriately licensed facility.
7. If the soils are to be removed from the site, the soil will need to be transported under proper shipping documentation to an assigned disposal facility.
8. The Environmental Professional and Rhode Island College Project Manager should oversee the preparation of the necessary shipping documents and disposal procedures.
9. Copies of the material shipping records for any soils shipped from the Site must be provided to the Environmental Professional and the Rhode Island College Project Manager. This information will be included in closure reporting and likely submitted to the RIDEM.

2.6 Implementation Schedule

Limited investigative work is scheduled to begin during the winter of 2013/2104 with full scale excavation and stockpiling activities occurring in the spring of 2014. The project is scheduled to be substantially complete by June 30, 2014 and ready for the application of final pavement by October 24, 2014.

Section 3

Notification Requirements

During previous soil investigations completed at the college elevated arsenic concentrations have been identified in soil at concentrations above the RIDEM Residential Direct Exposure Criterion of 7 milligrams-per-kilogram (mg/kg). Although elevated arsenic has been attributed to natural background conditions, RIDEM was notified of the previous arsenic concentrations identified at the college. No analytical data from the proposed areas of excavation associated with this project have been collected to date. If elevated arsenic concentrations are identified in soils at the Site, the concentrations shall be reported to RIDEM and managed in accordance with all RIDEM regulations.

If extenuating Site or soil conditions are discovered beyond that which is outlined in the SMP, the Environmental Professional and Rhode Island College Project Manager should be notified immediately.

Section 4 Site Contacts

The following table provides the contact information for the various individuals that the contractor may need to contact during the completion of this project.

<u>Company / Affiliation</u>	<u>Name</u>	<u>Address</u>	<u>Phone Number</u>
Tighe & Bond	Rebecca Sherer	53 Southampton Road Westfield, MA 01085	(413) 562-1600
Rhode Island College	Kevin Fitta	600 Mount Pleasant Ave., Providence, RI 02908	(401) 456-9885
RIDEM, Office of Waste Management	Jeffrey Crawford	235 Promenade Street Providence, RI 02903	(401) 222-2797
RIDEM Emergency Response	Jim Ball	235 Promenade Street Providence, RI 02903	(401) 222-2797 x7129 or (401) 222-3070

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Section 02120 – Transportation and Disposal of Contaminated Soils

SECTION 02120

TRANSPORTATION AND DISPOSAL OF CONTAMINATED SOIL

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Transportation and disposal of Contaminated Soil or materials collected, consolidated, excavated, and generated during performance of the Work.
 - 2. Coordination, loading, transportation and disposal of contaminated materials.
- B. Related Sections
 - 1. Section 01350, Health & Safety Plan
 - 2. Section 02110, Contaminated Soil Excavation
 - 3. Section 13283, Hazardous Waste & Materials Abatement

1.2 DEFINITIONS

- A. Disposal: The discharge, deposit, injection, dumping, spilling, leaking, incineration or placing of any contaminated material or otherwise hazardous substance into or on any land or water so that such hazardous waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including ground waters.
- B. Generator: Any person, by site, whose act or process produces hazardous waste, or whose act first causes an oil or hazardous material to become subject to regulation.
- C. Regulated Waste: Non-Resource Conservation and Recovery Act (RCRA) hazardous wastes such as oils, petroleum products or residuals, chemical liquids, chemical gases or vapors, non-Toxic Substances Control Act (TSCA) polychlorinated biphenyls (PCBs), waste chemical solids, including soils, and other contaminated material wastes not defined as RCRA Hazardous, TSCA-regulated, or Special Waste.
- D. Manifest: An approved form used as a shipping document to identify the quantity, composition, and the origin, routing, and destination of regulated or hazardous waste from the site of generation to the point of disposal, treatment, storage, or use.
- E. Shipping Paper: An invoice, bill of lading, or other shipping document serving a similar purpose; other than a hazardous waste manifest used to document the conveyance of materials between different locations, including regulated wastes when applicable.
- F. Treatment: Any method, technique or process, including neutralization, incineration, stabilization or solidification, designed to change the physical, chemical or biological character or composition of any hazardous waste so as to neutralize such waste or so as to render such waste less hazardous, non-hazardous, safer to transport, amenable to storage, or reduced in volume, except such method or

technique as may be included as an integral part of a manufacturing process at the point of generation.

- G. TSCA/RCRA Landfill: This type of landfill is permitted to accept soil that contains PCB at levels of 50 ppm to 500 ppm, acceptable for landfill disposal as defined in 40 CFR Part 761; soil that is classified as either a RCRA characteristic waste or RCRA listed waste as defined in 40 CFR Part 261 but meets the treatment standards established in 40 CFR Part 268 - Land Disposal Restrictions; and all other soil classified as a hazardous material in 310 CMR 30.00. This type of landfill shall be approved to operate under a Federal Part B operating permit and shall be permitted to accept material with PCB concentrations up to 500 ppm under TSCA. The landfill shall be designed with a double composite liner meeting minimum RCRA design requirements. The landfill shall operate a leachate collection system and shall also operate a leak detection well system. The landfill shall be capable of stabilizing soils for meeting requirements of the USEPA's present rules required under the 1984 amendments to RCRA, banning the land disposal of hazardous material.
- H. RCRA Landfill: This type of landfill is permitted to accept soil that contains PCBs levels below 50 ppm; soil that is classified as either a RCRA characteristic waste or RCRA listed waste as defined in 40 CFR Part 261 but meets the treatment standards established in 40 CFR Part 268 - Land Disposal Restrictions and all other soil classified as a hazardous material. This type of landfill shall be approved to operate under a Federal Part B operating permit. The landfill shall be designed with a double composite liner meeting minimum RCRA design requirements. The landfill will operate a leachate collection system and will also operate a leak detection well system. The landfill shall be capable of stabilizing soils for meeting requirements of the land ban.
- I. Non-RCRA Out-of-State Lined Landfill: This type of landfill shall be state approved or permitted to accept soil that is defined as a hazardous material, but is not classified as either a RCRA characteristic waste or RCRA listed waste as defined in 40 CFR Part 261; soil containing PCBs below 50 ppm; and all other soil not permitted or unsuitable for in-state disposal or recycling.
- J. In-State Landfill Facility (Reuse as Cover Material): This type of facility shall be approved to accept soil that is classified as petroleum contaminated soil, that would be classified as a hazardous material; and is not classified as a RCRA characteristic waste or RCRA listed waste as defined in 40 CFR Part 261.

1.3 SUBMITTALS

- A. Submit all pertinent information relating to the transport and disposal of materials specified herein, within 14 days after issuance of the Notice to Proceed and prior to transport and disposal. The information submitted be in one package and shall include the following, as a minimum:
 - 1. Information for proposed treatment/disposal facility or facilities including the following:
 - a. General Information
 - 1) Facility Name

- 2) Facility Address
 - 3) Name of Contact Person
 - 4) Title of Contact Person
 - 5) Telephone Number of Contact Person
 - 6) Permit Number
- b. The facility shall specify the volume of material that can be accepted from the Project on a weekly and a total basis.
 - c. The facility shall provide written confirmation that they are permitted to accept and will accept the classified contaminated materials the general quality and quantity described by these specifications.
 - d. The facility shall provide a listing of all current and valid permits, licenses, letters of approval, and other authorizations to operate that they hold, pertaining to the receipt and treatment/disposal of the contaminated materials described by these specifications.
2. Transporter Identification Number and expiration date.
 3. Name and address of all hazardous material transporters to be used to transport materials including proof of permit, license, or authorization to transport hazardous material in all affected states.
- B. Upon receipt of final approval from treatment/disposal facility to accept contaminated materials, submit copy of said approval.
- C. Within ten (10) working days after the off-site transportation of contaminated materials, submit copies of all paperwork related to transportation of contaminated materials. Such paperwork may include, but not be limited to receipts, weight tickets, and disposal certificates.
1. Provide certified tare and gross weight slips for each load received at the designated treatment/disposal facility which shall be attached to copy of related manifest or bill of lading.
- D. Prior to receiving progress payment, submit documentation certifying that all materials were transported to, accepted, and disposed of, at the selected treatment/disposal facility. The documentation shall include the following, as a minimum.
1. Documentation for each load from the site to the disposal facility, including all manifests and any other applicable transfer documentation.
 2. All documentation for each load shall be tracked by the original manifest or bill of lading document number assigned at the project site at time of signature by authorized Engineer.

1.4 REGULATORY REQUIREMENTS

- A. Obtain all Federal, State and local permits, approvals, or authorizations required for the transport and disposal of contaminated materials. Adhere to all requirements of such permits, approvals, or authorizations.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.1 GENERAL

- A. Sample, test, or analyze contaminated material for approval of final disposal.
- B. Contaminated materials to be disposed of include, but are not limited to contaminated soil, rock, miscellaneous contaminated debris, petroleum fuels, petroleum residuals, concrete, and other materials from remediation, demolition and decontamination operations.
- C. All contaminated materials excavated, consolidated, or otherwise managed during the course of the work will require special handling in accordance with these specifications, the Contractor's Health and Safety Plan, and all applicable permits, approvals, authorizations, and regulations.
- D. Dispose of contaminated materials at facilities approved by Owner or Engineer.
- E. All Contractor personnel shall wear personal protective equipment and protective clothing consistent with the levels of protection for this Work as indicated in the Site Health and Safety Plan.
- F. Contractor shall select treatment/disposal facilities to receive contaminated materials from the Project which are established, fully operational, and in full compliance with all applicable Federal, State, and local regulations.
- G. Perform collection of characterization (except soils) samples and laboratory analyses to satisfy the acceptance criteria for selected receiving facility(s).
- H. Remove all contaminated materials from the project site and legally dispose of materials.

3.2 CHARACTERIZATION FOR DISPOSAL-CONTAMINATED SOIL

- A. Contaminated soil characterization sampling will be conducted by the Engineer.
- B. The Engineer will collect soil samples. Such samples may be collected from within Excavation Areas, or following deposition of Contaminated Soil in the Temporary Controlled Stockpile Area.
 - 1. Contractor is responsible for all laboratory charges associated with samples.

3.3 DISPOSAL COORDINATION AND TRANSPORT

- A. Contractor is solely responsible for coordinating treatment/disposal facility approval, scheduling, loading, transport, and ultimate disposal of contaminated materials at treatment/disposal facility. No claim for delay will be considered based upon

Contractor's facility failing to meet Contractor's production schedule. No payments will be made for rejected loads.

3.4 MANIFESTS AND SHIPPING PAPERS

- A. Owner is designated as the "Generator" and will sign all Manifests and Shipping Papers. Manifests and Shipping Papers shall be prepared by Contractor twenty four (24) hours in advance of shipment of contaminated materials. Authorized Owner's representative will sign as "Generator" as each load of contaminated material leaves the Project Site. Contractor shall forward appropriate original copies of Manifests or Bills of Lading to Engineer on the same day the contaminated materials leave the Project Site.

3.5 TRANSPORT OF CONTAMINATED MATERIAL

- A. Transport contaminated materials off-site after all treatment/disposal facility documentation has been completed and the material accepted by said facility.
- B. Transport contaminated materials from the site to treatment/disposal facility in accordance with all United States Department of Transportation (DOT), USEPA, and other regulations of all affected states.
- C. The Hauler(s) shall be licensed in all states affected by transport.
- D. Provide to Engineer copies of all weight slips, both tare and gross, for every load weighed and disposed of at the accepted disposal facility. The slips shall be tracked by the original manifest document number that was assigned by Engineer at the site. Owner will only make progress payments upon receipt of these weight slips.
- E. Minimize the potential for development of free liquid during transport. Do not load wet soils for transport. If free liquid does develop during transport, Contractor shall be responsible for proper collection and disposal of same.
- F. Soil located in the Temporary Stockpile Area shall be removed from the Project Site in accordance with the requirements of this section.

END OF SECTION

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