



**ADDENDUM NO. 2  
Issued April 14, 2009**

**TO**

**REQUEST FOR BIDS  
FOR  
COMPLETION OF CLOSURE  
OF THE  
PHASE 1 ASH AREA  
AT THE  
HARTFORD LANDFILL  
(RFB Number FY09-EN-004)  
(RFB Issued March 18, 2009)**

**Note:** Bidders are required to acknowledge this and all Addenda in Section 5(a) of the Bid Form.

This Addendum consists of CRRA's responses to written questions received by 3:00 p.m., April 7, 2009, the due date specified in the Contract Documents. Because of changes resulting from various answers, the Bid Price Form has been revised as have Plan Numbers D-3 and D-4. These documents are attached to this addendum and revised documents have been posted on CRRA's web page.

One question that was received concerned "hold harmless" language in the Performance Bond. This question will be addressed in a subsequent addendum.

## 1. GENERAL

1.1	Question	Is this a project that will accept a small business entity? As a subcontractor?
	Answer	CRRA will evaluate a small business entity using the same criteria that it would use to evaluate any other entity and, if a small business entity is determined to be the most qualified, CRRA would recommend selection of that entity.  CRRA would also consider a small business entity as a subcontractor.
1.2	Question	Will the scale at the construction entrance be available for the use of the contractor(s)?
	Answer	No, the CRRA scale at the Hartford Landfill will not be available for the use of the contractor.
1.3	Question	The specifications require Professional Liability insurance (\$1,000,000 limit). Is this required for the general contractor not involved with any design work?
	Answer	Yes, Professional Liability insurance in the minimum amount of \$1,000,000 is required for the general contractor. Professional Liability insurance covers more than design work.

## 2. BID PRICE FORM

2.1	Question	On the Bid Price Form, Item 6 refers to specification Section 01010, but the documents provided do not include Section 01010.
	Answer	Specification Section 01010 is one of the specifications included in the General Requirements, <b>Exhibit B</b> to the Agreement.

<b>2.2</b>	Question	In the Bid Price Form, Item 12 – Drainage Flat Pipes, refers to specification section 06641. This section is not included in the bid documents.
	Answer	Technical Specification 06641 was added to the RFB Package Documents by Addendum 1.
<b>2.3</b>	Question	In the Bid Price Form, Item 31 gives a quantity of 15,950 SF for the Green Armor. Should this be 15,950 SY?
	Answer	The bid item should be in SY.
<b>2.4</b>	Question	Sheet P-1 indicates that the existing riprap lined swale is to be cleaned but there is no bid item for this action.
	Answer	A description has been added to bid item No. 36 for this cleanout of an existing drainage structure.
<b>2.5</b>	Question	Please provide a detail and/or specification on Bid Price Item 39 - Piezometer Extensions.
	Answer	See the attached modified Sheet D-3.
<b>2.6</b>	Question	Are the correct specification sections listed in Unit Price Bid Item 2 in the Bid Price Form?
	Answer	The language for Unit Price Bid Item 2 in the Bid Price Form should be changed to read “ <u>Perform Site Surveys</u> – Perform initial and final site surveys as described in the Specification Section 01010 for the Unit Price per Survey of:”
<b>2.7</b>	Question	In the Bid Price Form, Unit Price Bid Item 3 repeats the description for “Site Surveys” in the second section when it seems this should read “Temporary Facilities.”
	Answer	In the Bid Price Form, for Unit Price Bid Item 3, the title of the item the second time it appears should be “Temporary Facilities,” rather than “Perform Site Surveys.”

### 3. PLAN SHEETS

<b>3.1</b>	Question	Sheet D-2, Existing Cap and New Final Cap Interface detail, indicates that the depth of sand above the half pipe on the east slope will be nine inches. Is the depth also nine inches for the area above the half pipe on the north slope?
	Answer	See Sheet D-3 which indicates the limit of the drainage geonet and that, for the area above the half-pipe on the north slope, 12" of sand is to be used. Where the drainage geonet is used the Contractor shall use 9" of sand. Where flat drainage pipe is used the Contractor shall use 12" of sand.
<b>3.2</b>	Question	Sheet D-2, Typical North and East Exterior Berm Section, states that the 4-inch Round Drain Pipe is used in six locations. Should this be nine locations?
	Answer	There is a discrepancy between sheets D-2 and P-5. The Round Drain Pipe is used in 9 locations as indicated on P-5.
<b>3.3</b>	Question	Please furnish a detail for the extension of the piezometers.
	Answer	A piezometer extension detail and a leachate clean-out detail have been added to Sheet D-3 (see attached drawing).
<b>3.4</b>	Question	What is the pipe material and size for the pump access that will be extended as shown on sheet D-4?
	Answer	The two pipes are 24" and 18" SDR-11 HDPE. Sheet D-4 has been modified to show this (see attached drawing).
<b>3.5</b>	Question	The detail on Plan Sheet D-4 shows an extension to the previously-installed pump access discharge pipe. Neither the detail nor the specification gives us the pipe size or wall thickness: SDR-26, 18, 21, etc. Please provide further information on the size and type of pipe required.
	Answer	See Answer to Question No. 3.4 above.
<b>3.6</b>	Question	Is the proposed access road on the South side of the site already in place, or does it need extensive grading to build?
	Answer	The grayed contours shown on D-6 are those that currently exist as this area of the site will not be modified substantially prior to the contractor accessing the site. Extensive grading will not be required.

<b>3.7</b>	Question	Note 8 on Plan Sheet P-1 indicates that existing contours in Cells 1 and 3 have been left out intentionally; therefore we cannot do an accurate takeoff of volumes of earthwork. Unit Price Bid Item 1, Ash Location and Regrading, indicates a quantity of 5,000 CY of grading. Are we to assume that the approximate quantity of earthmoving to get to the proposed subgrades will be in the neighborhood of 5,000 CY? (our quick takeoff with the CAD files showed a shortage of 200,000 CY, probably as a result of the missing topo info).
	Answer	The Contractor should expect what is described in the specifications and at the Site Walk. Ash at the site is currently being shaped to match final grades as much as possible. The Contractor shall perform a site survey after the work has been awarded and this information will be used by the engineer to develop final contours with the goal of minimizing the need for additional ash regrading.
<b>3.8</b>	Question	Is the limit of the drainage composite on the north slope at the half pipe swale approximate elevation 62 to 70?
	Answer	No, the limit is as indicated on Drawing P-5. The drainage composite will be terminated near the top of the slope.
<b>3.9</b>	Question	Drawing P1 notes several structures that require a "collar" installation. Does this refer to a riser installation at these structures?
	Answer	Where the "collar" installation is called out there is also reference to the sheet on which the "collar" detail is located.
<b>3.10</b>	Question	Drawing P1 notes several structures that require a "collar" installation. Is there a liner boot at these structures?
	Answer	The structures that require "collar" installation or extension that will penetrate through the final membrane include 4" HDPE Leachate System Cleanouts, Electrical Handholes, Piezometers, Pump Access Pipes, Force Main Cleanouts, and the Force Main Chambers. All of these are located on the exterior perimeter berm and the detail will not be modified except for the 4" HDPE Leachate System Cleanouts and the Pump Access Pipes. The Pump Access Pipe detail (sheet D-4) already calls for the membrane to be welded to the pipe but will be modified to call out the pipe size, material, and thickness. A detail is needed for the Leachate System Cleanouts and will be added along with the piezometer extension detail on the modified sheet D-3.

<b>3.11</b>	Question	Sheet D4 shows a liner boot detail for the 24" pump access pipe. Are there specific booting requirements for any other structures within the limits of the cap (Force Main Chambers, Electrical Handholes, Electrical Panel, Pipe Extensions)
	Answer	See the answer to question 3.10 above.
<b>3.12</b>	Question	What is the size of the force main for extension? Is there a detail of what is expected?
	Answer	Please see sheet D-3 for detail on the force main extension.

**4. OTHER QUESTIONS**

<b>4.1</b>	Question	Please confirm that material testing, such as compaction, sieve, proctor and chemical will be by the Contractor.
	Answer	Yes, material testing will be the responsibility of the Contractor unless material is supplied by CRRA. If CRRA provides the material, CRRA will provide the Contractor with data necessary to perform field confirmation testing. The Contractor may assume that the material provided by CRRA is adequate for the use indicated.
<b>4.2</b>	Question	Please confirm that the Engineer is responsible for producing the Stormwater Pollution Control Plan as stated in Part A, Note 9 of Specification Section 02220. Note, Contractors cannot be held accountable for additional costs of measures in this plan if they are not shown on/within bid documents.
	Answer	The Engineer is responsible for producing the Stormwater Pollution Control Plan. The measures described in this plan were developed from those shown on the Contract Drawings and Specifications. The Contractor will be held responsible for all of the measures as shown on the Contract Drawings and Specifications.
<b>4.3</b>	Question	Is any special surface treatment (stone, fabric, etc) required for the staging areas?
	Answer	No, but it is the responsibility of the contractor to return staging areas to their pre-construction condition or better.

<b>4.4</b>	Question	On the sand requirement, the specifications state that sand passing ¼ inch sieve for 6" above liner?
	Answer	Yes.
<b>4.5</b>	Question	The halfpipe swale detail requires a corrugated pipe section between halfpipe and composite board. Is this section also corrugated steel pipe?
	Answer	Yes.
<b>4.6</b>	Question	What is the area covered with the scrim plastic cover and how many blocks are on it?
	Answer	The area of the temporary membrane that will have to be removed by the contractor is approximately 105,000 SF. The number of blocks is approximately 180.
<b>4.7</b>	Question	Will cover soil have to meet the GA or GB PMC?
	Answer	Cover soil will have to meet the GB PM as indicated in the technical specifications.



**BID PRICE FORM**

**COMPLETION OF CLOSURE OF THE  
PHASE 1 ASH AREA AT THE HARTFORD LANDFILL  
(RFB Number FY09-EN-004)**

Bidder will complete the Work as specified in the Contract Documents for the following lump sum and unit price costs (please use itemized table below):

**1. LUMP SUM BID ITEMS**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
1	<u>Mobilization/Demobilization</u> - Mobilize to the site and demobilize after the completion of work all labor, equipment, tools, and other incidentals required for the performance of the work for the Lump Sum Price of:	\$
	dollars	
	and	cents
2	<u>Localized Repair/Ash Removal</u> – Provide all labor, equipment, tools, and other incidentals required to peel back geotextile, remove ash from surface of geomembrane, and then restore and repair geotextile as described in Section 01010 and shown on Dwg. P-1 of the Contract Drawings for the Lump Sum Price of:	\$
	dollars	
	and	cents
3	<u>Silt Fence with Hay Bales</u> – 1,915 LF, furnished and installed as shown on the Contract Drawings for the Lump Sum Price of:	\$
	dollars	
	and	cents



**1. LUMP SUM BID ITEMS (Continued)**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
4	<u>Silt Sacks</u> - 2 total, furnished and installed as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and  cents	
5	<u>Stone Check Dams</u> - 17 total, furnished and installed as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and  cents	
6	<u>Site Preparation</u> - Remove temporary cover materials placed over the work area and store for reuse or dispose of materials appropriately as described in Section 01010 for the Lump Sum Price of:  dollars	\$
	and  cents	
7	<u>Subbase Material</u> – Furnish, transport and stockpile 9,830 CY of suitable subbase material as described in Specification Section 02225 and as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):  dollars	\$
	and  cents	
8	<u>Subbase Material</u> – Place, compact, and test 9,830 CY of suitable subbase material as described in Specification Sections 02220 and 02225 and as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):  dollars	\$
	and  cents	

**1. LUMP SUM BID ITEMS (Continued)**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
9	<u>Geotextile</u> – 118,000 SY, furnished and installed as described in Specification Section 06645 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
10	<u>Geomembrane</u> – 59,000 SY, furnished and installed as described in Specification Section 06643 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
11	<u>Geocomposite Drainage Layer</u> – 27,600 SY, furnished and installed as described in Specification Section 06645 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
12	<u>Drainage Flat Pipes</u> – 12,442 LF 12" Flat, 197 LF 4" Round, and 352 LF 18" Flat, furnished and installed as described in Specification Section 06641, including all fittings, appurtenances, and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
13	<u>Drainage Sand</u> – Furnish, transport and stockpile 6,880 cubic yards of drainage sand with a hydraulic conductivity of equal to or greater than $10^{-3}$ cm/s as described in Specification Section 02227 and as shown in the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):  dollars	\$
	and cents	

**1. LUMP SUM BID ITEMS (Continued)**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
14	<p><u>Drainage Sand</u> – Place, compact, and test 6,880 cubic yards of drainage sand with a hydraulic conductivity of equal to or greater than <math>10^{-3}</math> cm/s as described in Specification Sections 02220 and 02227 and as shown in the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	
15	<p><u>Drainage Sand</u> – Furnish, transport and stockpile 10,420 cubic yards of drainage sand with a hydraulic conductivity of equal to or greater than <math>10^{-2}</math> cm/s as described in Specification Section 02227 and as shown in the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	
16	<p><u>Drainage Sand</u> – Place, compact, and test 10,420 cubic yards of drainage sand with a hydraulic conductivity of equal to or greater than <math>10^{-2}</math> cm/s as described in Specification Sections 02220 and 02227 and as shown in the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	
17	<p><u>Cover Soil</u> – Furnish, transport and stockpile 14,750 cubic yards of suitable cover soil as described in Specification Section 02227 and as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars.</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	

**1. LUMP SUM BID ITEMS (Continued)**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
18	<p><u>Cover Soil</u> – Place, compact, and test 14,750 cubic yards of suitable cover soil as described in Specification Sections 02220 and 02227 and as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	
19	<p><u>Topsoil</u> – Furnish, transport and stockpile 9,830 cubic yards of suitable topsoil as described in Specification Section 02228 and as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	
20	<p><u>Topsoil</u> – Place, compact, and test 9,830 cubic yards of suitable topsoil as described in Specification Sections 02220 and 02227 and as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	
21	<p><u>Process Stone</u> – Furnish, transport and stockpile 200 cubic yards of suitable process stone as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	
22	<p><u>Process Stone</u> – Place, compact, and test 200 cubic yards of suitable process stone as described in Specification Section 02220 and as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):</p> <p style="text-align: right;">dollars</p>	\$
	<p>and</p> <p style="text-align: right;">cents</p>	

**1. LUMP SUM BID ITEMS (Continued)**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
23	<u>Asphalt Millings</u> – Furnish, transport and stockpile 200 cubic yards of asphalt millings as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):  dollars	\$
	and cents	
24	<u>Asphalt Millings</u> – Place, compact, and test 200 cubic yards of asphalt millings as described in Specification Section 02220 and as shown on the Contract Drawings for the Lump Sum Price of (measurement and payment to be based upon final, in-place volumes for approved work):  dollars	\$
	and cents	
25	<u>Pump Access Pipe Protection</u> – 2 total, provide all labor, materials, and equipment necessary to extend the pump access pipes and construct the protection structure as shown on the Contract Drawings, including moving concrete blocks available onsite, extending electrical hand holes and force main manholes, and placing pea stone, for the Lump Sum Price of:  dollars	\$
	and cents	
26	<u>Force Main Cleanout Extensions</u> – 4 Total, provide all labor, materials, and equipment necessary to extend the force main cleanout pipes and construct the protection structure as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	

**1. LUMP SUM BID ITEMS (Continued)**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
27	<u>Electrical Handhole Extensions</u> – 3 Total, provide all labor, materials, and equipment necessary to extend the electrical handhole protection structure as shown on the Contract Drawings, excluding those within the Pump Access Pipe Protection, for the Lump Sum Price of:  dollars	\$
	and cents	
28	<u>Half-Pipe Diversion Swales</u> – 1,280 LF, provide all labor, materials, and equipment to construct the Half-Pipe Diversion Swales as shown on the Contract Drawings, including stone weep, wire mesh, additional geotextile and geomembrane, and other appurtenances for the Lump Sum Price of:  dollars	\$
	and cents	
29	<u>Grouted Riprap Drainage Downchute</u> - 595 LF, furnished and installed as described in Section 02721 and as shown on the Contract Drawings, including geotextile, geomembrane, riprap and other stone, and grout, for the Lump Sum Price of:  dollars	\$
	and cents	
30	<u>Jute Netting</u> – 2,570 SY, furnished and installed as described in Section 02900 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
31	<u>Turf Reinforcement Mat (Green Armor)</u> – 15,950 SY furnished and installed as described in Specification Section 02900 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	

**1. LUMP SUM BID ITEMS (Continued)**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
32	<u>Fiber Filtration Tubes</u> – 3,850 LF furnished and installed as described in Specification Section 02900 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
33	<u>Flexible Growth Media and All Landscaping</u> – 59,000 SY, furnished and applied as described in Section 06642 and 02900 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
34	<u>Reconstruct Riprap Perimeter Swale</u> - 880 LF, furnished and installed as described in Section 02271 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
35	<u>Modified Riprap North Slope</u> – 1,120 SY, furnished and installed as described in Section 02271 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
36	<u>Cleanout Existing Drainage Structures</u> – 580 LF of swale along the northern perimeter, 520 LF of pipe and 3 drainage structures, remove and dispose onsite accumulated sediment in pipes, basins, and other structures as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	

**1. LUMP SUM BID ITEMS (Continued)**

Item No.	Brief Description: Lump Sum Bid in Words	Lump Sum Bid in Figures
37	<u>Remove Existing Drainage Structures - 230 LF</u> , remove and dispose offsite existing drainage structures as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
38	<u>Construct New Drainage Collection and Outfall System – 117 LF of HDPE pipe</u> , 1 catch basin, 1 manhole, 1 HDPE FES, furnished and installed, and refurbish riprap outlet protection as described in Specification Sections 02271 and 02630 and as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
39	<u>Piezometer Extensions – 2 Total</u> , provide all labor, materials, and equipment necessary to extend the two piezometers on the north slope as shown on the Contract Drawings for the Lump Sum Price of:  dollars	\$
	and cents	
40	<u>Four-Inch HDPE Cleanout Extensions – 2 total</u> , provide all labor, materials, and equipment necessary to protect and extend as shown on the Contract Drawings the 4" HDPE Leachate system cleanout pipes for the Lump Sum Price of:  dollars	\$
	and cents	
	<b>SUBTOTAL LUMP SUM BID ITEMS (In Words)</b>  dollars	<b>SUBTOTAL LUMP SUM BID ITEMS (In Figures)</b>  \$
	and cents	



**2. UNIT PRICE BID ITEMS**

Item No.	Estimated Quantity	Brief Description: Unit and Total Bid in Words	
1	5,000 CY	<u>Ash Relocation and Regrading</u> - Regrade and relocate ash as directed by the Engineer to achieve final ash grades within the Work Area as indicated on the Contract Drawings for the Unit Price per Cubic Yard of:	<b>Item Unit Bid in Figures</b>  \$
		dollars	
		and	<b>Item Total Bid in Figures</b>  \$
		cents	
2	2 Each	<u>Perform Site Surveys</u> – Perform initial and final site surveys as described in the Specification Sections 01010 for the Unit Price per Survey of:	<b>Item Unit Bid in Figures</b>  \$
		dollars	
		and	<b>Item Total Bid in Figures</b>  \$
		cents	

**2. UNIT PRICE BID ITEMS (Continued)**

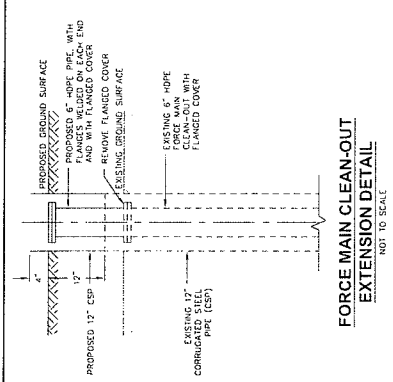
Item No.	Estimated Quantity	Brief Description: Unit and Total Bid in Words	
3	5 Months	<u>Temporary Facilities</u> - Provide temporary facilities as described in Section 01010 and as shown on the Contract Drawings for the Unit Price per Month of:  dollars	<b>Item Unit Bid in Figures</b>  \$
		and cents	
		<u>Temporary Facilities</u> – Item Total Bid in Words  dollars	<b>Item Total Bid in Figures</b>  \$
		and cents	
		<b>SUBTOTAL UNIT PRICE BID ITEMS (In Words)</b>  dollars	<b>SUBTOTAL UNIT PRICE BID ITEMS (In Figures)</b>  \$
		and cents	

**3. TOTAL BID PRICE**

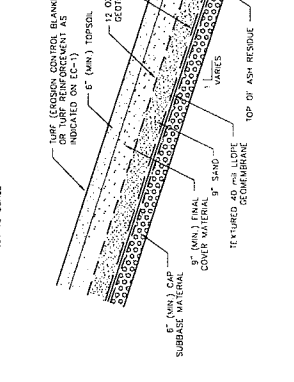
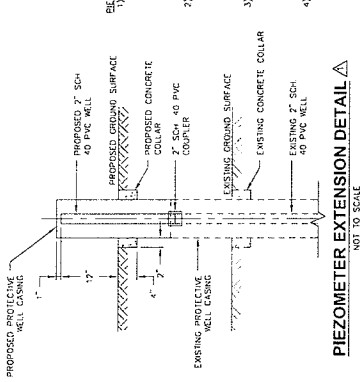
<b>SUBTOTAL LUMP SUM BID PRICE ITEMS (From Page 9)</b>	\$
<b>SUBTOTAL UNIT PRICE BID ITEMS (From Page 11)</b>	\$
<b>TOTAL BID PRICE (In Words)</b>	<b>TOTAL BID PRICE (In Figures)</b>
dollars	\$
and cents	

Bidder affirms that the above lump sum and unit price costs represent the entire cost to complete the Work in accordance with the Contract Documents and that no claim will be made on account of any increase in wage scales, material prices, delivery delays, taxes, insurance, cost indexes or any other rates affecting the construction industry or this Project, and that each and every such claim is hereby expressly waived by Bidder. CRRA reserves the right to transport and stockpile at the site suitable subbase material, drainage sand, cover material, process stone, asphalt millings, and topsoil. The Contractor shall assume that these materials are suitable for use as directed by the Engineer.

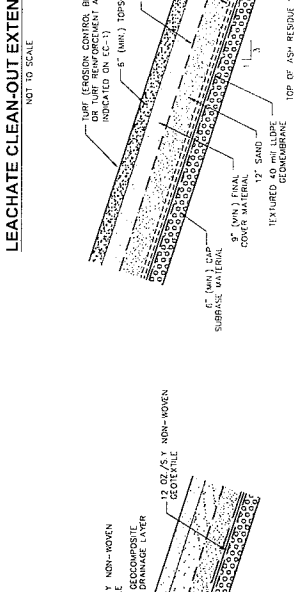
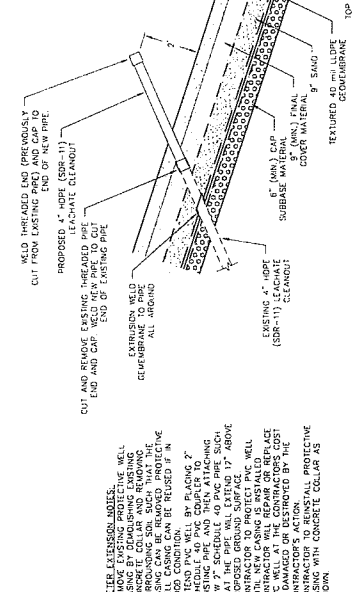
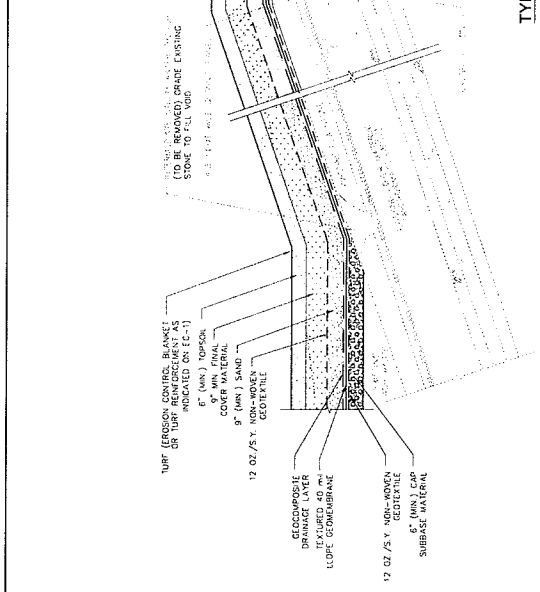
Name of Bidder (Firm):	
Signature of Bidder Representative:	
Name (Type/Print):	
Title:	
Date:	



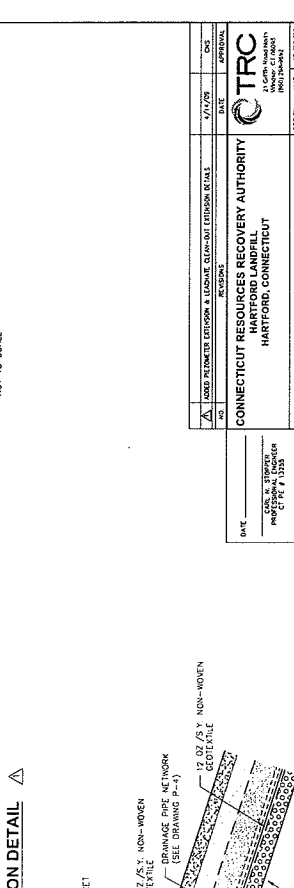
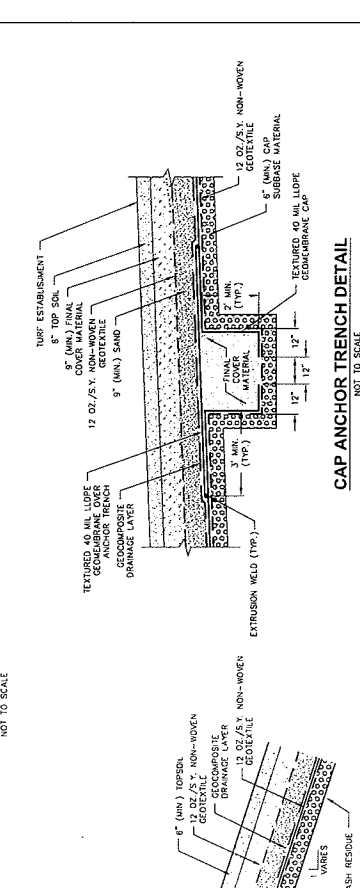
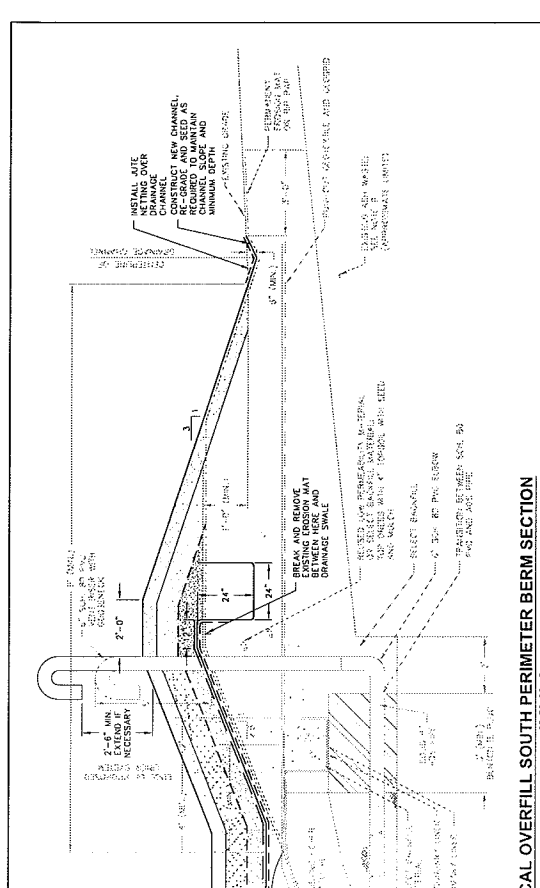
- FORCE MAIN CLEAN-OUT EXTENSION DETAIL**  
NOT TO SCALE
- NOTES:**
- 1) REMOVE EXISTING PROTECTIVE WELL CASING.
  - 2) BELL NEW RISER SECTION TO EXISTING CLEAN-OUT WITH FLANGED COVER AND WELD EXTENSION SUCH THAT THE FLANGE WILL BE APPROXIMATELY EVEN WITH PROPOSED GROUND SURFACE.
  - 3) PROJECT PIPE DURING CONSTRUCTION TO PROTECT PROTECTIVE WELL CASING.
  - 4) 12" CSP PIPE TO PROTECTIVE FORCE MAIN CLEAN-OUT AS SHOWN.



**TYPICAL CAP SECTION**  
TOP AREA AND EAST SLOPE ABOVE HALF-PIPES  
NOT TO SCALE



**TYPICAL CAP SECTION**  
NORTH SLOPE AND SLOPES BELOW HALF-PIPES  
NOT TO SCALE



**TYPICAL OVERFILL SOUTH PERIMETER BERM SECTION**  
NOT TO SCALE

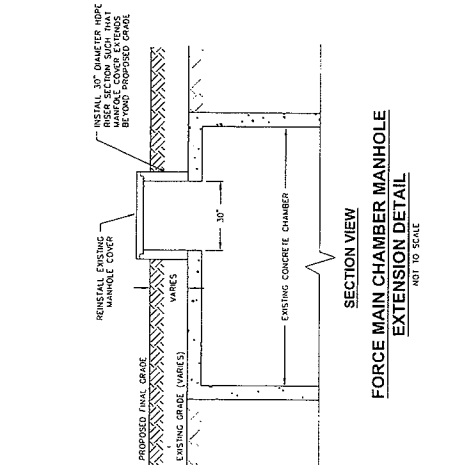
DATE	DESCRIPTION	DATE	APPROVAL
03/27/20	ISSUE FOR PERMITTING	03/27/20	TRC
03/27/20	REVISION	03/27/20	TRC
03/27/20	REVISION	03/27/20	TRC
03/27/20	REVISION	03/27/20	TRC
03/27/20	REVISION	03/27/20	TRC

**CONNECTICUT RESOURCES RECOVERY AUTHORITY**  
HARTFORD, CONNECTICUT

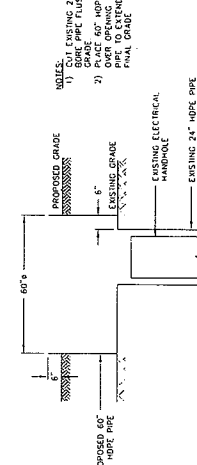
**HARTFORD LANDFILL PHASE I ASH AREA**  
FINAL CLOSURE

**LANDFILL CAP DETAILS**

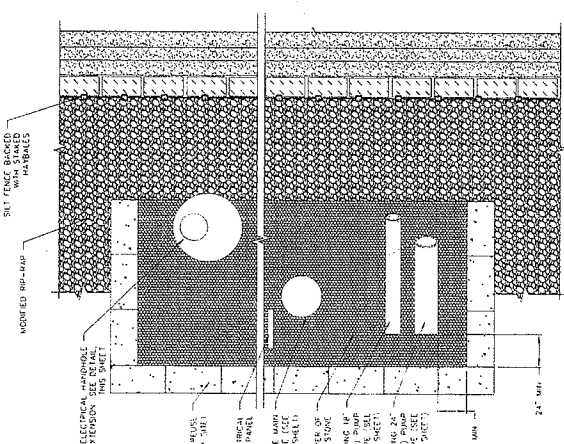
D-3



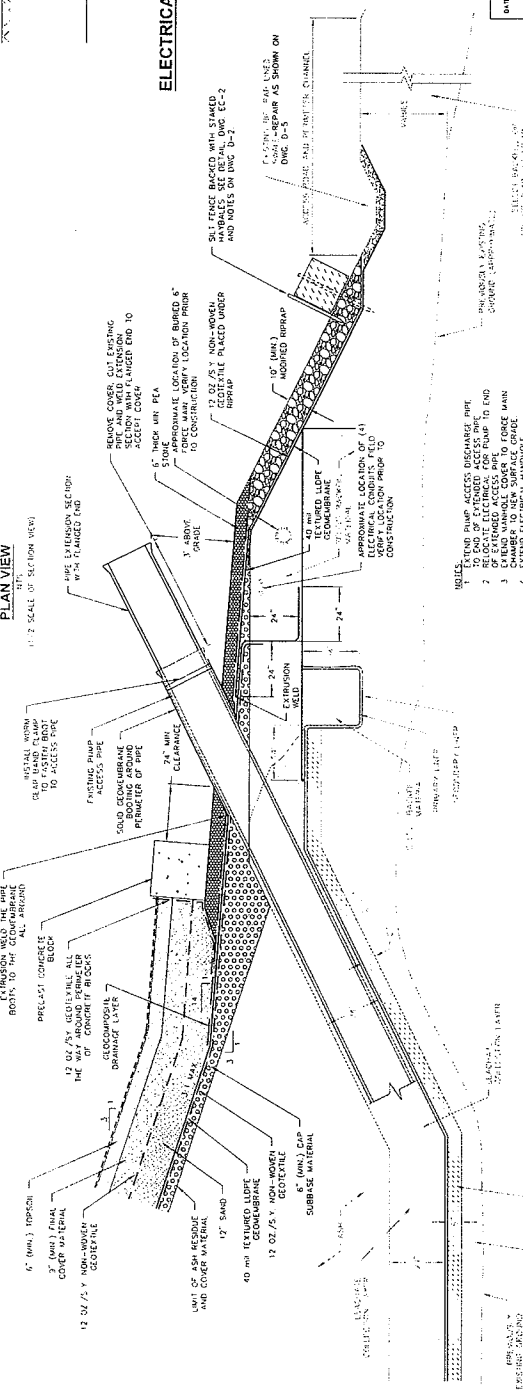
**SECTION VIEW  
FORCE MAIN CHAMBER MANHOLE  
EXTENSION DETAIL**  
NOT TO SCALE



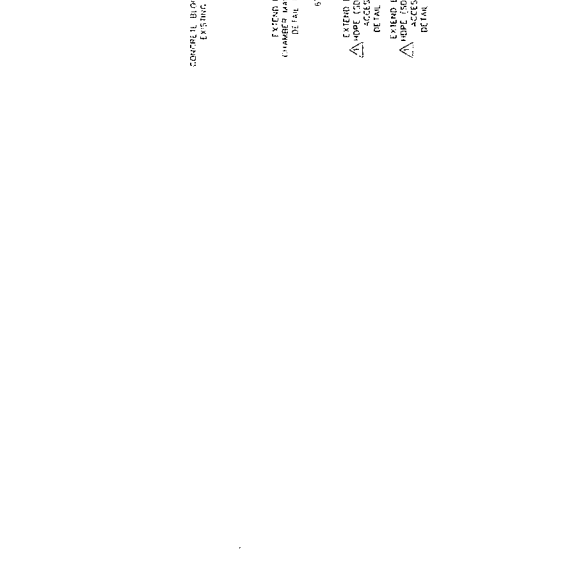
**SECTION VIEW  
ELECTRICAL HANDHOLE PROTECTION DETAIL**  
NOT TO SCALE



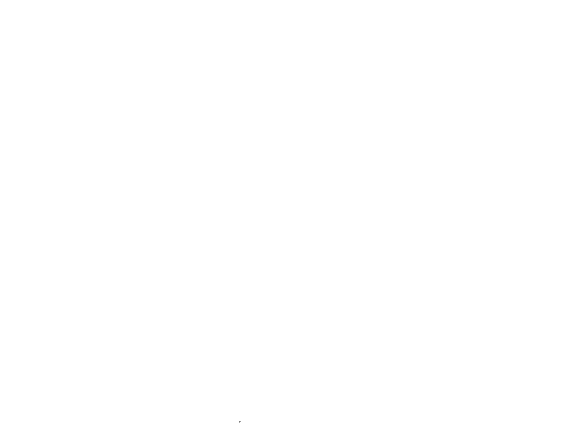
**PLAN VIEW**  
1/2\"/>



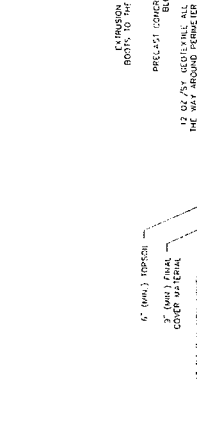
**SECTION VIEW  
EAST EXTERIOR BERM PUMP ACCESS  
PIPE DETAIL**  
NOT TO SCALE



**PLAN VIEW**  
1/2\"/>



**SECTION VIEW  
FORCE MAIN CHAMBER MANHOLE  
EXTENSION DETAIL**  
NOT TO SCALE



**SECTION VIEW  
ELECTRICAL HANDHOLE PROTECTION DETAIL**  
NOT TO SCALE



**PLAN VIEW**  
1/2\"/>



**SECTION VIEW  
EAST EXTERIOR BERM PUMP ACCESS  
PIPE DETAIL**  
NOT TO SCALE



**PLAN VIEW**  
1/2\"/>

NO.	REVISION	DATE	BY	CHKD.	APPROVAL
1	SCALE, EAST EXTERIOR BERM PUMP ACCESS PIPE DETAIL	7/17/09			
2	REVISION				

**CONNECTICUT RESOURCES RECOVERY AUTHORITY**  
 HARTFORD, CONNECTICUT  
**HARTFORD LANDFILL PHASE I ASH AREA**  
**FINAL CLOSURE**  
**EAST EXTERIOR BERM PUMP**  
**ACCESS PIPE DETAILS**

DATE: 07/17/09  
 DRAWN: MJE  
 CHECKED: JMB  
 SCALE: 1/4" = 1'-0"  
 PROJECT: 13300-0000-0000  
 DRAWING: D-4

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE

NOT TO SCALE