



EPA Region V

RAC

Response Action Contract

*Frontier Hard Chrome
Demolition Design*

Work Assignment Number: 134-RDRD-1027

EPA Contract: 68-W7-0026

August 2002



Weston Solutions, Inc. • 190 Queen Anne Avenue North • Seattle, WA 98109-4926

**DEMOLITION DESIGN
FRONTIER HARD CHROME
VANCOUVER, WASHINGTON**

Prepared for

**U.S. EPA Contract No. 68-W7-0026
U.S. Environmental Protection Agency
Region X
1200 Sixth Avenue
Seattle, WA 98101**

Contract No. 68-W7-0026
Work Assignment No. 134-RDRD-1027
Work Order No. 20064-134-100-1110
Document Control No. RFW134-2F-ALKU

August 2002

Prepared by

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EXHIBIT B

SCOPE OF WORK

Contract Agreement No.
for Structure Demolition/Recycle/Disposal SOW at Frontier Hardchrome

FRONTIER HARDCHROME
VANCOUVER, WASHINGTON

STRUCTURE DEMOLITION/RECYCLE/DISPOSAL
BID SCHEDULE

Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
Phase 1 – Structure Demolition					
1	Mobilization	L.S.	1		
2.	Disconnect and Abandon Utilities	L.S.	1		
3.	Crane and Power Panel Removal	See items 3.a, 3.b, 3.c and 3.d below		-----	-----
3.a	Remove Richardson Power Panels	Each	15		
3.b	Remove Richardson Jib Cranes	Each	13		
3.c	Remove Richardson Gantry Crane	Each	1		
3.d	Remove Frontier Hardchrome Gantry Crane	Each	1		
4.	Structure Demolition	L.S.	1		
5.	Nonhazardous Material Staging, Hauling, Recycling and/or Disposal	L.S.	1		
6.	Hazardous Material Staging, Hauling and Disposal	Ton	25		
7.	Earthwork - Excavate Test Pits	Days	2		
8.	Health and Safety	L.S.	1		
9.	Site Security	L.S.	1		
10.	Demobilization	L.S.	1		
Total Amount					

STRUCTURE DEMOLITION/RECYCLE/DISPOSAL

BID SCHEDULE

Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
Phase 2 – Foundation Demolition and Piling Removal					
11.	Mobilization	L.S.	1		
12.	Foundation Removal	L.S.	1		
13.	Machine Foundation Removal	L.S.	1		
14.	Remove and Dispose of Foundation Piling	Each	20		
15.	Hazardous Material Staging, Hauling and Disposal	Ton	125		
16.	Nonhazardous Material Staging, Hauling, Recycling and/or Disposal	L.S.	1		
17.	Earthwork	See items 17.a and 17.b below			
17.a	Level Site	L.S.	1		
17.b	Dust Fixative	Sq. Yd.	4,400		
18.	Health and Safety/Security	L.S.	1		
19.	Demobilization	L.S.	1		
Total Amount					

FRONTIER HARDCHROME
VANCOUVER, WASHINGTON

STRUCTURE DEMOLITION/RECYCLE/DISPOSAL
SCOPE OF WORK

1.0 GENERAL

The Frontier Hardchrome (FHC) Site is located in the southwestern part of Washington State. The site is approximately one-half mile north of the Columbia River and covers about one-half acre. Frontier Hardchrome is located at 113 Y Street, Vancouver, Washington.

In approximately 1955, the site was filled with hydraulic dredge material and construction rubble. Since then the site has been primarily occupied by two businesses, both engaged in the chrome plating business. Pioneer Plating operated at the site from 1958 to 1970. The site was then occupied by FHC until 1983. The property has been leased to various other businesses since 1983. Presently, the FHC facility is being used as a truck driving school. Soil and groundwater at FHC are contaminated with hexavalent chromium.

The work covered under this subcontract will include the demolition/recycle/disposal of several structures located on the Frontier Hardchrome Superfund Site. The structures to be removed primarily consist of two buildings associated with chrome plating and metal fabrication; these buildings are the former FHC, and the Richardson Metals Building. The scope of work also includes subsurface soil explorations.

The FHC site is a Superfund Site and work must be done in an environmentally safe manner. Hazardous materials (primarily soil) are present on the site. The Contractor shall be cognizant of potential local business and community impacts (such as noise, dust, access blockages, odors, etc.) and perform the work with due consideration of these concerns.

1.1 DEFINITIONS

The following definitions apply to this scope of work:

Construction Manager—The U.S. EPA on-site, full time designee responsible for managing and overseeing performance of the construction work. The Construction Manager will be an employee of Weston Solutions, Inc. (WESTON). The Construction Manager has complete authority over the scope of work. The Construction Manager may designate a resident engineer to assume on-site responsibilities in his absence.

Contractor—The firm contracted by WESTON to perform the work. The Contractor reports to the Construction Manager.

Subcontractor–Firms contracted by the Contractor to perform certain portions of the work. Subcontractors report to the Contractor.

Site Health and Safety Coordinator (SHSC)–The individual responsible for overseeing site health and safety. The SHSC will ensure that all safety documentation is in place and health and safety plans are being followed. The SHSC will ensure that the Contractor is maintaining safe site conditions and working in a safe manner. The SHSC will be a WESTON employee.

Site Safety Officer (SSO)–The individual responsible for ensuring day-to-day activities are being performed safely and that all site workers are adhering to specific safety rules and precautions established for each job activity. The SSO is responsible for enforcing PPE requirements, contaminant monitoring, confined space entry monitoring, medical record and training record maintenance, safe housekeeping and other safety related functions. The SSO is a Contractor employee and reports indirectly to the SHSC.

2.0 WORK ACTIVITIES

The following is a list of activities the Contractor will be responsible for completing:

- Comply with substantive requirements of City permits and coordinate work with appropriate City personnel.
- Mobilize all equipment to the site.
- Designate exclusion zones (signs, barriers, etc.)
- Install a Contractor site construction trailer (as required by the Contractor).
- Field verify and mark the location of all utilities.
- Disconnect, deactivate and/or remove all utilities that will be affected by demolition activities.
- Remove and save 13 jib cranes, 15 power panels and 1 gantry crane located inside the Richardson Metal Works Building.
- Remove and save 1 gantry crane inside the Former Frontier Hardchrome Building.
- Demolish and remove all structures including building contents, pavements and foundations and pilings.

- Complete 4 exploratory excavations to a depth of approximately 15 feet.
- Maintain on-site equipment decontamination area.
- Transport non-hazardous materials to recycling facilities and/or a construction debris landfill.
- Transport hazardous materials to approved disposal facilities and/or a hazardous waste landfill.
- Schedule and coordinate all disposal shipments.
- Complete the proper documentation for the transportation and disposal of all waste generated or recovered.
- Dispose of all PPE.
- Implement traffic control devices when Contractor's equipment significantly impairs the normal flow of traffic, causes undue risk to vehicular traffic, or is required to be in any roadway, sidewalk or public right-of-way.
- Provide site security as required to protect the Contractors equipment.
- Restore fences, sidewalks and streets damaged by the Contractor during structure removal.
- Demobilize all Contractor equipment.

3.0 SUBMITTALS

The Contractor, or representative thereof, is required to attend a pre-bid site walk before submitting a proposal. Thereafter, provide submittals in accordance with specification Section 01300.

4.0 HEALTH AND SAFETY

While on-site, the Contractor shall adhere to all health and safety requirements as set forth in the Site HASP prepared by WESTON. The Contractor shall also adhere to the requirements set forth in his own HSP. The Contractor shall designate an on-site safety officer that shall be responsible for assuring the Contractor's employees adhere to all safety requirements.

5.0 INTERFACE WITH OTHER CONTRACTORS/COMPANIES

The Contractor will be required to interface with other contractors and entities at the site to minimize conflicts and facilitate construction activities. These contractors/entities are:

5.1 WESTON SOLUTIONS, INC.

WESTON will provide overall project management and supervision of the Contractors. WESTON will also ensure health and safety requirements are being followed. The Contractors will be required to interface with WESTON's site health and safety coordinator and Construction Manager.

5.2 CASSIDY MANUFACTURING

Cassidy Manufacturing is located adjacent to the Richardson Metals Works Building (which is to be demolished). The Contractor shall demolish the Frontier Hardchrome and Richardson buildings in a manner which does not interrupt activities at Cassidy; does not block the flow of traffic into and out of Cassidy's facility; and does not damage the Cassidy facility or their utilities. Noise and dust shall also be controlled to limits prescribed herein.

5.3 CITY OF VANCOUVER

Contractor shall interface with the City to obtain all permits necessary for the work. Contractor shall inform City personnel of work being performed and coordinate all work with appropriate City personnel. Arrangements for utilities, such as water and electricity, shall be coordinated by the Contractor with appropriate departments.

6.0 SUPPORT FACILITIES

WESTON will provide porta-potties for site use. The Contractor will be required to pay for all other utilities used by the Contractor and will be responsible for all cost associated with the Contractors construction trailer installation and rental (as required).

A non-contaminated concrete pad is available onsite for staging transport trucks and other equipment that will access roadways.

7.0 DRAWINGS, SPECIFICATIONS AND PLANS

This design package contains the following Drawings, Specifications and Plans to be used for

structure demolition/recycle/disposal:

Drawings

<u>Drawing Number</u>	<u>Revision Number</u>	<u>Title</u>
100	0	Existing Site Plan
101	0	Utility Plan

7.1 Specifications

DIVISION 1 – GENERAL

01025	8-02-02	Measurement and Payment
01027	8-02-02	Application for Payments
01028	8-02-02	Modification/Change Order Procedures
01100	8-02-02	Environmental Protection
01101	8-02-02	Materials Handling
01200	8-02-02	Project Meetings
01300	8-02-02	Submittals
01310	8-02-02	Construction Scheduling
01390	8-02-02	Health and Safety
01500	8-02-02	Construction Facilities and Temporary Controls
01505	8-02-02	Mobilization
01700	8-02-02	Contract Closeout
01710	8-02-02	Cleaning
01720	8-02-02	Project Record Documents
01850	8-02-02	Security

DIVISION 2 – SITE WORK

02050	8-02-02	Demolition
02200	8-02-02	Earthwork
02300	8-02-02	Off-Site Transportation
02400	8-02-02	Off-Site Disposal

7.2 Plans

- Site Health and Safety Plan
- Site Management Plan

8.0 SCHEDULE

Schedule (Offeror is to complete and return with the proposal as indicated)

Proposals Due:	xxxxx
Award of Subcontract:	xxxxx
Mobilization Complete:	xxxxx
Demolition Complete	xxxxx

Number of days on-site, including mobilization and demobilization: Days* (Offeror to Complete)

Contractor will normally work:
Hours/Day (Offeror to Complete)
Days/Week (Offeror to Complete)

Note: Building demolition work must be completed on or before January 15, 2003. Dates for completion of foundation demolition and piling removal to be determined.

* Time in calendar days from receipt of award.

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<u>SECTION</u>	<u>TITLE</u>
01025	MEASUREMENT AND PAYMENT
01027	APPLICATION FOR PAYMENTS
01028	MODIFICATION/CHANGE ORDER PROCEDURES
01100	ENVIRONMENTAL PROTECTION
01101	MATERIALS HANDLING
01200	PROJECT MEETINGS
01300	SUBMITTALS
01310	CONSTRUCTION SCHEDULING
01390	HEALTH AND SAFETY
01500	CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS
01505	MOBILIZATION
01700	CONTRACT CLOSEOUT
01710	CLEANING
01720	PROJECT RECORD DOCUMENTS
01850	SECURITY
02050	DEMOLITION
02200	EARTHWORK
02300	OFF-SITE TRANSPORTATION
02400	OFF-SITE DISPOSAL

SECTION 01025
MEASUREMENT AND PAYMENT

PART 1-GENERAL

1.01 SUMMARY

- A. This section covers the methods and procedures that will be used to measure the Contractor's work and to provide payment to the Contractor for work performance under this Contract. It is the responsibility of the Contractor to make a thorough investigation of the Drawings and Specifications and the Site to determine the scope of Work included in each bid item.
- B. Payments will be made to the Contractor based on the quantities of work as measured in accordance with the specified methods of measurement and the prices stipulated in the accepted Bid. This method of payment will constitute complete compensation for all work shown on the Drawings and provided in the Specifications or other contract documents, and for all costs of accepting the general risks, liabilities and obligations expressed or implied. Payment under all items shall include, but not be limited to, compensation for furnishing all supervision, labor, equipment, overhead, profit, materials, services, licenses and permits, and performing all work required to accomplish and complete the work specified under each item and other associated work.
- C. Procedures for application of payment are specified in Section 01027.

1.02 SUBMITTALS

A. Schedule of Values

Prepare and submit to the Construction Manager, 7 days following Notice to Proceed, a schedule of values for all pay items. Organize and subdivide Schedule of Values so that a price is established for each activity on the Progress Schedule. Include short titles in the Schedule of Values. Provide major subtotal line corresponding to each of the items identified in the Bid Form. The Schedule of Values may provide incremental measurement and payment for bid items. However, work items bid at unit rate shall only be compensated when the measured units of work are complete in all

respects.

B. Monthly Invoice

With each monthly invoice, compute quantities of completed work for that month. The calculation package shall be attached to the monthly invoice and shall be prepared in sufficient detail to allow the Construction Manager to verify the values of completed work. Progress payments will be made for lump sum items based on approved invoices and on the approved schedule of values.

PART 2-PRODUCTS

NOT USED

PART 3-EXECUTION

This section discusses the work, measurement and payment for every item indicated in the bid schedule.

PHASE 1 - STRUCTURE DEMOLITION

3.01 MOBILIZATION (Item 1)

A. Work Included

Work includes mobilization of personnel and improvement to the site, set up of office space, debris staging areas, exclusion zones, sanitary facilities, liquid storage capacity above that provided by others, power to the demolition site, and other facilities as needed. Includes obtaining necessary permits from local agencies, installation of silt fence, storm drain protection, purchasing required bonds and insurance, and submittal preparation.

B. Payment

Payment will be lump sum. Mobilization payment will be paid when Contractor completes specification section 01505 item 1.02A.1, 1.02A.2, 1.02A.3, 1.02A.4, 1.02A.7, 1.02A.8, 1.02.A9; specification section 01100 item 3.03B, and provides the required submittals acceptable to the construction manager.

3.02 DISCONNECT AND ABANDON UTILITIES (Item 2)

A. Work Included

Work includes disconnecting all utilities that may impede site demolition. Contractor is responsible for identifying and locating utilities such that they may be disconnected or safeguarded. Utilities include gas, water, power, storm drains, telephone and TV cables, sewer, etc. All utilities to the site must be disconnected that may result in unsafe working conditions. Contractor shall also remove sections of the buried drains as indicated on the drawings.

B. Payment

Payment will be lump sum.

3.03 CRANE AND POWER PANEL REMOVAL (Item 3)

A. Work included

Work includes removal of:

1. Fifteen (15) power panels inside the Richardson Metals Building,
2. Thirteen (13) jib cranes inside the Richardson Metals Building,
3. One (1) gantry crane inside the Richardson Metals Building,
4. One (1) gantry crane inside the former Frontier Hardchrome Building,

Contractor will store the cranes and panels onsite.

B. Payment

Payment will be unit priced at a unit rate as provided in the bid schedule. Payment for quantities over or under bid schedule quantities will be made at the unit price provided in the bid schedule.

3.04 STRUCTURE DEMOLITION (Item 4)

A. Work Included

Work includes demolition of all above ground structures. Includes removal of soil on demolition materials before offsite recycling/disposal. Includes dust suppression and drainage (runoff) control.

B. Payment

Payment will be lump sum. Periodic payment will be made based on the percent of demolition completed.

3.05 NONHAZARDOUS MATERIAL STAGING, HAULING, RECYCLING, AND/OR DISPOSAL (Item 5)

A. Work Included

Work includes staging of non-hazardous material in designated marked stockpiles, removal of soil from debris, loading of non-hazardous demolition debris, transportation, recycle, and/or disposal at an approved landfill. Contractor is encouraged to recycle as much demolition debris as possible. Demolition material recycling proceeds will become the property of the Contractor. Material inside the structure is included.

B. Payment

Lump sum payment will be made.

3.06 HAZARDOUS MATERIAL STAGING, HAULING, AND DISPOSAL (Item 6)

A. Work Included

Work includes staging of hazardous material in designated marked stockpiles, loading of hazardous solid debris (primarily flume cinderblocks inside the Frontier Hardchrome Building), transportation, manifesting and disposal at a licensed hazardous waste landfill.

B. Measurement

Quantity will be on a per ton basis as determined by measurement at a certified scale.

C. Payment

Payment will be based on the tons of material disposed at an off-site hazardous waste landfill at a unit rate as provided in the bid schedule. Payment for quantities over or under bid schedule quantities will be made at the unit price provided in the bid schedule.

3.07 EARTHWORK (Item 7)

A. Work Included

Work includes:

Excavation of 4 test pits, provision of ground protection, soil stockpiling, backfilling soil into excavation and ground protection material disposal. Note: Test pits are being excavated to identify magnitude of buried debris.

B. Payment

Payment will be unit priced on a daily (8 hours per day) basis.

3.08 HEALTH AND SAFETY (Item 8)

A. Work Included

The contractor shall provide a site safety officer to oversee and coordinate construction and safety programs. The Contractor shall provide PPE, decontamination equipment, and on-site monitoring equipment such as PIDs, mini-rams and OVMs as needed. The contractor shall ensure medical examinations and hazardous waste training for all site workers is current.

B. Payment

Payment will be lump sum.

3.9 SITE SECURITY (Item 9)

A. Work Included

Work includes providing security personnel during working hours and to secure the site after hours, providing additional fencing and lighting, as deemed necessary to protect the contractors equipment. Includes providing sign-in and sign-out logs.

B. Payment

Payment will be lump sum.

3.10 DEMOBILIZATION (Item 10)

A. Work Included

Work includes leveling of the site where soil was disturbed, decontamination of all Contractors equipment, removal of Contractors facilities and equipment, removal of all debris and garbage and final road cleaning as necessary as specified in section 01505, items 1.02A.4, 1.02A.5 and 1.02A.6.

B. Payment

Payment will be lump sum.

PHASE 2 - FOUNDATION DEMOLITION AND PILING REMOVAL

3.11 MOBILIZATION (Item 11)

A. Work Included

Work includes mobilization of personnel to the site, set up of exclusion zones and other facilities as needed. Includes storm drain protection and submittal preparation.

B. Payment

Payment will be lump sum.

3.12 FOUNDATION REMOVAL (Item 12)

A. Work Included

Work includes demolition of all concrete slabs, foundations, and pavement. Includes removal of soil on concrete/pavement before offsite recycling/disposal. Includes dust suppression and drainage (runoff) control.

B. Payment

Payment will be lump sum. Periodic payment will be made based on the percent of demolition completed.

3.13 MACHINE FOUNDATION REMOVAL (Item 13)

A. Work Included

Work includes removal of the machine foundation located inside the Richardson Building. Includes removal of soil on concrete before offsite recycling/disposal. Includes dust suppression and drainage (runoff) control.

C. Payment

Payment will be lump sum.

3.14 REMOVE AND DISPOSE OF FOUNDATION PILING (Item 14)

A. Work Included

Work includes removal of Frontier Hardchrome foundation piling, piling decontamination, onsite piling storage (until sample results are available), and piling recycle/disposal. Includes loading and disposal of piling after sampling by others is complete (assume 3 weeks after removal). Contractor shall assume piling are a non-hazardous material after decontamination.

B. Payment

Payment will be unit priced per piling at a unit rate as provided in the bid schedule. Payment for quantities over or under bid schedule quantities will be made at the unit price provided in the bid schedule. Assume piling are non-hazardous material.

3.15 HAZARDOUS MATERIAL STAGING, HAULING, AND DISPOSAL (Item 15)

A. Work Included

Work includes staging of hazardous material in designated marked stockpiles, loading of hazardous solid debris (primarily contaminated concrete), transportation, manifesting and disposal at a licensed hazardous waste landfill.

B. Measurement

Quantity will be on a per ton basis as determined by measurement at a certified scale.

C. Payment

Payment will be based on the tons of material disposed at an off-site hazardous waste landfill at a unit rate as provided in the bid schedule. Payment for quantities over or under bid schedule quantities will be made at the unit price provided in the bid schedule.

3.16 NONHAZARDOUS MATERIAL STAGING, HAULING, RECYCLING, AND/OR DISPOSAL (Item 16)

A. Work Included

Work includes staging of non-hazardous material (primarily concrete and asphalt) in designated marked stockpiles, removal of soil from material, loading of non-hazardous material, transportation, recycle, and/or disposal at an approved landfill. Contractor is encouraged to recycle as much demolition material as possible. Demolition material recycling proceeds will become the property of the Contractor.

B. Payment

Lump sum payment will be made.

3.17 EARTHWORK (Item 17)

A. Work Included

Work includes:

1. Leveling the disturbed area of the site, soil consolidation (rolling), and water addition (as needed only for soil consolidation).

2. Applying a dust fixative over the disturbed areas of the site.

B. Measurement

Quantity for item 2 will be based on a square yard basis as determined using a measuring tape.

C. Payment

Payment for item 1 will be lump sum. Payment for item 2 will be unit priced on a square yard basis. Payment for quantities over or under bid schedule quantities will be made at the unit price provided in the bid schedule.

3.18 HEALTH AND SAFETY/SECURITY (Item 18)

A. Work Included

The contractor shall provide a site safety officer to oversee and coordinate construction and safety programs. The Contractor shall provide PPE, decontamination equipment, and on-site monitoring equipment such as PIDs, mini-rams and OVMs as needed. The contractor shall ensure medical examinations and hazardous waste training for all site workers is current.

Includes site security as needed to protect the contractors equipment. Includes providing security personnel during working hours and to secure the site after hours, as needed, providing additional fencing and lighting, as deemed necessary, and providing sign-in and sign-out logs.

B. Payment

Payment will be lump sum.

3.19 DEMOBILIZATION (Item 19)

A. Work Included

Work includes decontamination of all Contractors equipment, removal of Contractors facilities and equipment, removal of all debris and garbage and final road cleaning as necessary as specified in section 01505, items 1.02A.4, 1.02A.5 and 1.02A.6.

3.20 INCIDENTAL WORK

All work not included in paragraphs 3.01 to 3.19 of this section but specified or implied in the Contract Documents shall be included in the contract prices of the item or items most closely associated with the work.

END OF SECTION

SECTION 01027
APPLICATION FOR PAYMENTS

PART 1-GENERAL

1.01 REQUIREMENTS

- A. Submit Applications for Payment to Construction Manager in accordance with the schedule established by Conditions of the Contract and Agreement between Construction Manager and Contractor.

1.02 FORMAT AND DATA REQUIRED

- A. Submit payment applications to the Construction Manager on the forms provided in Attachment 01027.
- B. Provide itemized data on continuation sheet:
 - 1. Format, schedules, line items and values: those items in the Schedule of Values accepted by Construction Manager.

1.03 PREPARATION OF APPLICATION FOR EACH PROGRESS PAYMENT

- A. Application Form:
 - 1. Fill in required information, including that for Change Orders executed prior to date of submittal of application.
 - 2. Fill in summary of dollar values to agree with respective totals indicated on continuation sheets.
 - 3. Execute certification with signature of a responsible officer of Contractor.
- B. Continuation Sheets:
 - 1. Fill in the total list of all scheduled items of work, including item number, estimated quantity, and accepted unit price for each item.

2. Fill in the number of units completed to date and the associated dollar value for each scheduled line item when the work is performed. Round off subtotal values to nearest dollar.
3. List each Change Order executed prior to date of submission at the end of the continuation sheets. List the Change Order Number and description the same as an original component item of work.

1.04 SUBSTANTIATING DATA FOR PROGRESS PAYMENTS

- A. When the Construction Manager requires substantiating data; submit suitable information with a cover letter identifying:
 1. Project.
 2. Application number and date.
 3. Detailed list of enclosures.
- B. For stored products:
 1. Item number and identification as shown on application.
 2. Description of specific material.
- C. Submit one copy of data and cover letter for each copy of application.

1.05 PREPARATION OF APPLICATION FOR FINAL PAYMENT

- A. Fill in Application form (Final Payment) provided in Attachment 01027 as specified for progress payments.
- B. Use continuation sheet for presenting the final statement of accounting as specified in Section 01700-Contract Closeout.

1.06 SUBMITTAL PROCEDURE

- A. Submit Application for Payment to Construction Manager at the times stipulated in the Agreement.
- B. Number: Three copies of each Application.
- C. When Construction Manager finds Application for payment properly completed and

correct, he will transmit application for payment and the approved invoice to WESTON accounts payable to initiate payment to Contractor.

PART 2-PRODUCTS

NOT USED

PART 3-EXECUTION

NOT USED

END OF SECTION

ATTACHMENT 01027

PAYMENT APPLICATION AND CERTIFICATE FORM

**PAYMENT APPLICATION AND CERTIFICATE SIGNATURE PAGE
(FINAL PAYMENT)**

PAYMENT APPLICATION AND CERTIFICATE

PROJECT: _____ WORK ORDER NO.: _____
 PAYMENT ESTIMATE: _____ DATE: _____
 PERIOD FROM _____ TO _____ SHEET _____ OF _____
 CONTRACTOR: _____

1. Original Lump Sum Contract Amount	\$ _____
2. Lump Sum Change Order Amount	\$ _____
3. Unit Price Items	\$ _____
4. Time and Materials	\$ _____
5. Revised Contract Amount	\$ _____
6. Total Payment to Date (previous certificates for payment)	\$ _____
7. Total Retainage to Date	\$ _____
8. Current Payment Due	\$ _____
a. Lump Sum	\$ _____
b. Materials on Hand	\$ _____
c. Unit Price	\$ _____
d. Time and Materials	\$ _____
9. Subtotal	\$ _____
10. Current Retainage	\$ _____
11. Current Payment Due	\$ _____
12. Total Payment (6 + 11)	\$ _____
13. Total Retainage (7 + 10)	\$ _____
14. Total Value of Work to Date (12 + 13)	\$ _____
15. Percentage of Work Complete (line 14/line 5)	\$ _____
16. Current Payment Due	\$ _____

The undersigned Contractor certifies that the Work covered by this application for Payment has been completed in accordance with the Contract Documents, that all amounts due to date have been paid by him for Work for which previous Certificates for Payment were issued and payments received from the Construction Manager, and that the current payment shown herein is now due.

 Contractor By Date

I hereby acknowledge that the material and labor involved on the above estimate are correct and payment on same is due contractor.

 Weston Solutions, Inc. Date

**PAYMENT APPLICATION AND
CERTIFICATE SIGNATURE PAGE
(FINAL PAYMENT)**

PROJECT: _____

WORK ORDER NO. _____

APPLICATION NO.: _____

DATE: _____

PERIOD FROM _____ TO _____ 19____

SHEET ____ OF

CONTRACTOR: _____

I Hereby Acknowledge that this contract has been completed in substantial compliance with the items of the agreement, Specifications and Plans. I, therefore, recommend acceptance of the work and processing of this final estimate as showing the total amount of money due to Contractor in compliance with the terms of the Contract.

CONSTRUCTION MANAGER
Weston Solutions, Inc.

DATE

CONTRACTOR: _____

ADDRESS: _____

CITY STATE ZIP CODE

With the acceptance of this final payment, we, the Contractor, release the Construction Manager and Agents from all claims and all liability to us, the Contractor, for all things done or furnished in connection with the Work, and every act of the Construction Manager and all others relating to, or arising, out of the Work.

SIGNATURE

DATE

TITLE

SECTION 01028
MODIFICATION/CHANGE ORDER PROCEDURES

PART 1-GENERAL

1.01 SUMMARY

- A. Without invalidating the Contract, and without notice to surety, the Construction Manager may order changes in the Work consisting of additions, deletions, or modifications in the Work, with the Contractor's compensation and the time to perform under this Contract equitably adjusted accordingly. All such changes in the work shall be authorized by a Contract Modification, Immediate Action Change Order, or Field Order. The contract sum may be changed only by written and signed Immediate Action Change Orders or Contract Modifications.
- B. Immediate Action Change Orders, Change Order Request, Contract Modification, and Field Order forms are provided in Attachment 01028 of this section.

1.02 AUTHORIZATION

- A. Designate in writing the member of Contractor's organization:
 - 1. Who is authorized to accept changes in the Work.
 - 2. Who is responsible for informing others in the Contractor's employ of the authorization of changes in the Work.
- B. The Construction Manager will designate in writing the WESTON person who is authorized to initiate Immediate Action Change Orders or Contract Modifications.
- C. Do not start work until the appropriate written Immediate Action Change Order, Contract Modification or Field Order Change Order is approved and received by the Construction Manager.

1.03 DEFINITIONS

- A. Contract Modification–A written order specifying a change in the work (Change Order), together with the corresponding change in compensation under this Contract, if any, and the corresponding change in the time to perform under this Contract, if any, which has been agreed upon and signed by the Contractor and WESTON.
- B. Immediate Action Change Order–Circumstances will sometimes require WESTON to direct the Contractor to proceed with work to address an immediate need at the site. This need may result from emergency situations or be required to avoid incurring delay costs. In these circumstances the Construction Manager or his designee will order the Contractor to proceed with actions that are needed on an immediate basis, while the standard Contract Modification process is carried forward in the normal manner.
- C. Field Order–Without invalidating this Contract, the Construction Manager may order minor changes in the Work consisting of additions, deletions, or modifications that do not involve any corresponding change in the Contractor's compensation, or in the time for the Contractor to perform under this Contract in the substance of the contract. Such a change shall be made pursuant to a written order, named a "Field Order."

1.04 PRELIMINARY PROCEDURES

- A. The Construction Manager may initiate changes by submitting a Construction Modification Request (CMR) to the Contractor. Request will include:
 - 1. Detailed description of the change, products, and location of the change in the Project.
 - 2. Supplementary or revised drawings and specifications.
 - 3. The projected time span for making the change and a specific statement as to whether overtime work is, or is not, authorized.
 - 4. A specific period of time during which the requested price will be considered valid.
 - 5. Such request is for information only and is not an instruction to execute the changes nor to stop work in progress.
- B. Contractor may request changes by submitting a CMR to the Construction Manager containing:

1. Description of the proposed changes.
2. State of the reason for making the changes.
3. Statement of the effect on the Contract Sum and the Contract Time.
4. Statement of the effect on the work of separate contractors or subcontractors.
5. Documentation supporting any change in Contract Sum or Contract Time, as appropriate.

1.05 DOCUMENTATION OF PROPOSALS AND CLAIMS

A. Lump Sum (fixed price) and unit price.

1. Support each quotation for a lump-sum proposal, and for each unit price which has not previously been established, with sufficient substantiating data to allow the Construction Manager to evaluate the quotation.
2. On request, provide additional data to support time and cost computations:
 - a. Labor required.
 - b. Equipment required.
 - c. Products required.
 1. Recommended source of purchase and unit cost.
 2. Quantities required.
 - d. Taxes, insurance and bonds.
 - e. Credit for work deleted from Contract, similarly documented.
 - f. Overhead and profit.
 - g. Justification for any change in Contract Time.

B. Time and Materials

1. Support each claim for additional costs and for work done on a time-and-material basis, with documentation as required for a lump-sum proposal, plus additional information:
 - a. Name of Construction Manager who ordered the work, and date of the order.

- b. Dates and times work was performed and by whom.
- c. Time record, summary of hours worked and hourly rates paid.
- d. Receipts and invoices for:
 1. Equipment used, listing dates and times of use.
 2. Products used, listing of quantities.
 3. Subcontracts (lower tier contractors).

2. Document requests for substitutions for products.

1.06 PREPARATION OF CONTRACT MODIFICATIONS

- A. The Construction Manager will initiate the appropriate Immediate Action Change Order or Contract Modification.
- B. Immediate Action Change Order or Contract Modification will describe changes in the work, both additions and deletions, with attachments of revised Contract Documents to define details of the change.
- C. Immediate Action Change Order or Contract Modification will provide an accounting of the adjustment in the Contract Sum and in the Contract Time.

1.07 LUMP-SUM (FIXED-PRICE) CONTRACT MODIFICATIONS

- A. Content of Contract Modifications will be based on, either:
 1. The Construction Manager's proposal request and Contractor's responsive proposal as mutually agreed.
 2. Contractor's Proposal for a change, as recommended by the Construction Manager.
- B. Contractor will sign, date, and return a copy of the Contract Modifications to the Construction Manager to indicate agreement with the terms therein.
- C. The Construction Manager will sign and date the Immediate Action Change Order as authorization for the Contractor to proceed with the changes.
- D. WESTON contracts will sign and date the Contract Modification as authorization for the Contractor to proceed with the changes after client consent.

1.08 UNIT PRICE CONTRACT MODIFICATION

- A. Content of Contract Modifications will be based on, either:
 - 1. Construction Manager's definition of the scope of the required changes.
 - 2. Contractor's Proposal for a change.
 - 3. Survey of completed work.
- B. The unit prices will be:
 - 1. Those stated in the Agreement.
 - 2. Those mutually agreed upon between Construction Manager and Contractor.
- C. When quantities of each of the items affected by the Contract Modification can be determined prior to start of the Work:
 - 1. Contractor will sign, date, and return a copy of the Immediate Action Change Order to the Construction Manager to indicate agreement with the terms therein.
 - 2. Construction Manager will sign and date the Immediate Action Change Order as authorization for Contractor to proceed with the changes.
 - 3. Contract Modifications will be handled per 1.07.
- D. When quantities of the items cannot be determined prior to start of the Work:
 - 1. Construction Manager will issue a construction immediate action change order directing Contractor to proceed with the change on the basis of unit prices, and will cite the applicable unit prices.
 - 2. At completion of the change, the Construction Manager will determine the cost of such work based on the unit prices and quantities used.
 - a. Contractor shall submit documentation to establish the number of units of each item and any claims for a change in Contract Time.
 - 3. Construction Manager will sign and date the Contract Modification to establish the change in Contract Sum and in Contract Time.
 - 4. Construction Manager and Contractor will sign and date the Contract

Modification to indicate their agreement with the terms therein.

1.09 TIME AND MATERIALS CHANGE ORDER

In the event a lump sum or unit price Contract Modification will not cover the scope of work, WESTON will initiate a time and materials change order. The applicable information in the lump sum (1.07) or unit price (1.08) change orders apply to time and materials as well as the appropriate FAR changes.

1.10 CORRELATION WITH CONTRACTOR'S SUBMITTALS

- A. Periodically, as required, revise Schedule of Values and Request for Payment forms to record each change as a separate item of Work, and to record the adjusted Contract Sum.
- B. Revise the Construction Schedule to reflect each change in Contract Time.
 - 1. Revise sub-schedules to show changes for other items of Work affected by the changes.
- C. Upon completion of work under a Contract Modification enter pertinent changes in Record Documents.

PART 2-PRODUCTS

NOT USED

PART 3-EXECUTION

NOT USED

END OF SECTION

ATTACHMENT 01028

CONTRACT MODIFICATION (CHANGE ORDER) FORM

IMMEDIATE ACTION CHANGE ORDER FORM

CONTRACT MODIFICATION REQUEST (CMR) FORM

FIELD ORDER FORM

**CONTRACT MODIFICATION
(CHANGE ORDER)**

EFFECTIVE DATE: _____

CONTRACT MODIFICATION NO.: _____ CONTRACT NO. _____

ISSUED TO (SUBCONTRACTOR) ISSUED BY (WESTON) WORK ORDER NO. _____
 Weston Solutions, Inc.
 190 Queen Anne Ave N., Suite 200 PRIME CONTRACT NO. _____
 Seattle, WA 98109

THE FOLLOWING MODIFICATIONS TO THE CONTRACT ARE HEREBY ORDERED:
 (USE ADDITIONAL PAGES IF REQUIRED)

CONTRACT AMOUNT	
ORIGINAL (CONTROL/SUM)	\$ _____
PREVIOUS CHANGE ORDERS (NET)	\$ _____
THIS CHANGE ORDER (NET)	\$ _____
REVISED CONTRACT AMOUNT	\$ _____

CONTRACT TIME (CAL. DAYS)	
ORIGINAL DURATIONS	_____ DAYS
PREVIOUS CHANGE ORDERS (ADD/DEDUCT)	_____ DAYS
THIS CHANGE ORDER (ADD/DEDUCT)	_____ DAYS
REVISED CONTRACT TIME	_____ DAYS
THE REVISED CONTRACT COMPLETION DATE IS:	_____, 19

THIS CHANGE ORDER/SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF PART III—GENERAL PROVISIONS, ARTICLE I CHANGES.

IMPORTANT: Subcontractor (X is is not) required to sign this document and return two (2) copies to Roy F. Weston, Inc.
 Note: if subcontractor is required to sign this document, the terms changed by this modification do not become part of the subcontract until the modification is signed by Roy F. Weston, Inc.

RECOMMENDED: CONSTRUCTION MANAGER (WESTON)	AUTHORIZED BY: CONTRACTOR	AUTHORIZED BY: WESTON
_____	_____	_____
_____	_____	_____
ADDRESS _____	ADDRESS _____	ADDRESS _____
_____	_____	_____
BY _____	BY _____	BY _____
DATE _____	DATE _____	DATE _____

**IMMEDIATE ACTION CHANGE ORDER
(CONTRACT MODIFICATION)**

PROJECT _____ WORK ORDER _____
CONTRACTOR _____
REASON FOR CHANGE _____

DESCRIPTION OF WORK

METHOD OF PAYMENT (check one)

_____	NO CHANGE IN CONTRACT VALUE		
_____	AT UNIT PRICE OF CONTRACT		
_____	AT LUMP SUM	AMOUNT	_____
_____	T & M	EST. AMOUNT	_____

TIME EXTENSION

YES _____ NO _____ NO. OF DAYS _____

REMARKS

APPROVAL AND ACCEPTANCE

CONSTRUCTION MANAGER _____ DATE _____
RESIDENCE ENGINEER _____ DATE _____
CONTRACTOR _____ DATE _____

**CONTRACT MODIFICATION REQUEST (CMR)
(CHANGE ORDER)**

TO: _____ DATE _____
FROM: _____ CMR# _____
PROJECT: _____ DATE _____
CONTRACT: _____ WORK ORDER NO. _____
CONTRACTOR: _____ PRIME CONTRACT NO. _____
KEYWORD DESCRIPTION: _____

IT IS REQUESTED BY _____ OF _____, THAT A CONTRACT MODIFICATION BE INITIATED TO THE ABOVE-REFERENCED CONTRACT. THE FOLLOWING INFORMATION IS PROVIDED AS BACKUP DATA:

(1) SCOPE OF WORK:

(2) REASON FOR MODIFICATION:

(3) APPROXIMATE COST CHANGE TO CONTRACT PRICE: _____

(4) WILL THE CONTRACTOR NEED ADDITIONAL CONTRACT TIME TO COMPLETE THE CHANGE IN WORK SCOPE?

YES NO _____ CALENDAR DAYS

(5) WILL THE CONTRACTOR NEED ADDITIONAL PERSONNEL TO COMPLETE THE CHANGE IN WORK SCOPE?

YES IF SO, TRADE(S) _____

NO NO. OF PERSONNEL _____

DURATION _____ (CALENDAR DAYS)

(6) HAS THE SCOPE, COST, PERSONNEL REQUIREMENTS, AND SCHEDULE BEEN DISCUSSED WITH THE CONTRACTOR?

YES NO

(7) THE CONTRACT MODIFICATION CORRESPONDENCE WILL BE INITIATED BY:

CONTRACTOR DESIGN CONSULTANT

OWNER CONST CONSULTANT

(8) ATTACHMENT IDENTIFICATION:

PREPARED BY: _____ REVIEWED BY: _____

DATE: _____ DATE: _____

FIELD ORDER

ORDER NO. _____

PROJECT: _____ WORK ORDER NO. _____

CONTRACTOR: _____ EFFECTIVE DATE _____

CONSTRUCTION MANAGER: _____ PRIME CONTRACT NO. _____

DESCRIPTION OF ALTERATION: _____

REASON FOR ALTERATION: _____

REFER TO DRAWING SHEETS _____

SECTION OR DETAIL

REFER TO SPECIFICATION PARAGRAPHS _____

WILL ADDITIONAL DRAWINGS BE NECESSARY?

YES

NO

ASSIGNED NO. OF DRAWINGS

It is understood and mutually agreed that this form is to be used only to record minor alterations which do no increase or decrease the contract price or change the intent of a specific provision of the contract. Any alterations involving change to the contract price or contract requirements must be covered by a formal Contract Modification executed by WESTON and the Contractor. A summation of these field orders will be incorporated into a modification(s) prior to contract completion.

RECOMMENDED:

BY: _____

CONSTRUCTION MANAGER (WESTON)

DATE: _____

AUTHORIZED:

BY: _____

(CONTRACTOR)

TITLE: _____

DATE: _____

AUTHORIZED:

BY: _____

CONTRACTS (WESTON)

TITLE: _____

DATE: _____

SECTION 01100
ENVIRONMENTAL PROTECTION

PART 1-GENERAL

1.01 SUMMARY

- A. This section outlines the minimum measures to be employed for the protection of the environment to the greatest extent possible during site operations. Environmental protection requires considerations of noise level and protection of air, water and land resources. It involves solid waste management and activities aimed at abatement of pollution in general.
- B. Comply with the measures outlined in this section, the Site Management Plan, and all applicable local, state, and federal regulations. The Construction Manager has the authority to stop all work if conditions of noncompliance exist.

1.02 REFERENCE STANDARDS

- A. Code of Federal Regulations (CFR):
 - 1. 29 CFR 1910 Occupational Health and Environmental Control
 - 2. 40 CFR 261 Regulations Identifying Hazardous Waste
 - 3. 40 CFR 262 Regulations for Hazardous Waste Generators
 - 4. 40 CFR 263 Regulations for Hazardous Waste Transporters
 - 5. 40 CFR 264 Regulations for Construction Managers and Operators of Permitted Hazardous Waste Facilities
 - 6. 40 CFR 300 Procedures for Planning and Implementing Off-Site Response Actions
 - 7. 49 CFR 178 Regulations for Shipping Container Specifications

- B. Washington Administrative Codes (WACs)
 - 1. WAC 173-60 Noise Control Act
 - 2. WAC 173-303 State Regulations for Dangerous Waste
 - 3. WAC 173-303-170 Regulations for Dangerous Waste Generators
 - 4. WAC 296-24, 27, 44, 62, and 155 Washington State Department of Labor and Industries Safety and Health Regulations
 - 5. WAC 197-11 State Environmental Policy Act (SEPA)
- C. Southwest Clean Air Agency
 - 1. Visible Dust Rule
- D. City of Vancouver Ordinances and Building Codes
 - 1. Building Codes
 - 2. Grading and Drainage Requirements
 - 3. Fire Codes
 - 4. Utility Modifications
 - 5. Traffic Ordinances

1.03 SUBMITTALS

- A. Preconstruction Survey: Perform a preconstruction reconnaissance survey of the project site with the Construction Manager 7 days prior to site mobilization, and photograph existing conditions on and adjacent to the site.
- B. Submit to the Construction Manager certifications 7 days prior to site mobilization that coordination with local authorities has been performed for substantive requirements of applicable permits. Provide a listing of the departments contacted.
- C. Submit to the Construction Manager 7 days prior to mobilization the proposed dust fixative to be used at the end of the demolition phase.

1.04 COMPLIANCE WITH LAWS

- A. Assume responsibility for ensuring that all applicable federal, state, county and municipal laws concerning unwanted environmental impacts of air, soil, stormwater drainage, and groundwater are being complied with by his personnel and any Contractor(s). When a condition of noncompliance exists, the Construction Manager may issue an order stopping all or part of the work until satisfactory corrective actions are taken. All time lost due to stop orders will be at Contractor's expense. Assume responsibility for the identification and acquisition of all permits required to complete the Work.

PART 2-PRODUCTS

NOT USED

PART 3-EXECUTION

3.01 NOISE LEVELS

- A. Excessive use of vehicle horns and unmuffled exhaust systems will not be permitted. The Contractor is to take corrective action to address such deficiencies. Noise level requirements are discussed in the Site Management Plan. Noise shall be limited to 70 dBA at the facility boundary.

Note: Surrounding businesses are extremely concerned about excessive noise during demolition. Contractor shall keep noise to a minimum by using care in demolition and by minimizing uncontrolled falling debris. Contractor will be required to modify demolition methods if noise complaints occur.

3.02 CONTROL AND DISPOSAL OF PETROLEUM PRODUCTS

- A. Hazardous Type Waste: Remove, handle, and dispose of all hazardous waste in accordance with applicable federal and state regulations and codes. Store hazardous substances in approved containers (49 CFR 178) properly labeled to identify the type of substances and date the container was filled. Remove the containers from the Site, store and dispose of hazardous substances in accordance with 40 CFR 263 and 264.
- B. Petroleum Products: Conduct the fueling and lubricating of equipment and motor vehicles to protect against spills and evaporation. Do not store bulk fuel at the site.

Fuel shall be arranged through use of an offsite fuel supplier. Properly dispose of lubricants to be discarded and all excess oil in accordance with state regulations. In the event of a spill, immediately notify the Construction Manager and take appropriate counter-measures.

3.03 LAND RESOURCES PROTECTION

A. Preservation

1. Preserve all land resources within site premises in their present condition or restore them to their pre-demolition condition at the completion of work activities except as otherwise delineated by the Drawings or Specifications.

B. Erosion Protection

1. Construct a silt fence around the work area (exclusion area) as shown on the drawings and as detailed in the Site Management Plan.
2. Selectively place materials to minimize erosion and prevent any sediment or runoff from entering the adjacent properties and stormdrains. Runoff from the exclusion zone will not be allowed and Contractor will be required to construct soil berms as necessary to confine runoff within exclusion zone. Install stormdrain protection devices as shown in the Site Management Plan.
3. Comply with all applicable laws concerning soil erosion and sediment control.

3.04 WATER RESOURCES PROTECTION

- A. Water Pollution: Do not pollute or allow the pollution of drainages with fuels, oils, solvents, acids, insecticides, herbicides, trash or other harmful materials and substances.

3.05 AIR RESOURCES PROTECTION

- A. Smoke: Minimize pollution of air by adhering to the Health and Safety Plan guidelines. Take measures to prevent fires, and excessive vehicle smoke and excessive releases of organic vapors to atmosphere.
- B. Dust Control: Keep dust down at all times, including nonworking periods. Sprinkle the soil and other areas disturbed by work activities during the demolition phase with

water to minimize dust. Use the minimum quantity of water necessary for dust control to minimize site runoff. During building demolition, apply water (use the minimum necessary) or take other precautions to keep dust to a minimum. Dust concentrations must be kept to less than 2.5 mg/m³. If dust control is not adequately applied, the Construction Manager shall require the contractor to apply a more aggressive, commercially available dust control fixative at no additional cost.

At the end of the foundation demolition and piling removal phase (see Demolition Section 02050, Paragraph 3.04.G and H.), level and roll the site, and apply a long lasting, commercially available dust suppressant over the disturbed area. Dust suppressant shall be an acrylic polymer (manufactured by America West Dust Control [Ph. 1-888-547-5475] or equivalent).

3.06 RECORDING AND PRESERVING HISTORICAL AND ARCHAEOLOGICAL DISCOVERIES

- A. Any objects having apparent historical or archaeological value discovered in the course of construction activities shall be faithfully preserved. The Contractor will leave item undisturbed and immediately notify the Construction Manager of any such discovery. It will be the Construction Manager's responsibility to notify the proper archaeological or historical authorities.

3.07 PROTECTION OF FISH AND WILDLIFE

- A. Not Applicable

3.08 DISPOSAL OF DEBRIS, RUBBISH, AND SOLID WASTE

- A. Debris and Rubbish: Decontaminate, remove and dispose/recycle of all debris and rubbish generated on the site resulting from work activities. Transport and disposal shall comply with all applicable federal, state and local laws. Such materials are to be removed from the site prior to final completion and acceptance of the work.
- B. Solid Waste: Place solid wastes in containers which are regularly emptied. Do not prepare, cook, or dispose of food on-site. Prevent contamination of the site and other areas when handling and disposing wastes. Upon project completion, remove the solid waste containers and any solid waste on-site.

3.09 MAINTENANCE OF POLLUTION CONTROL FACILITIES DURING CONSTRUCTION

- A. Contractor shall maintain all facilities provided for pollution control under this contract as long as demolition operations continue.

END OF SECTION

SECTION 01101
MATERIALS HANDLING

PART 1-GENERAL

1.01 SUMMARY

- A. Contaminated and Non-Contaminated material will be staged on-site for either on-site or off-site disposal. Refer to Site Management Plan for classification and disposal requirements.
- B. Ensure proper waste designation and compliance with regulatory requirements for handling, storage, and disposal.

1.02 REFERENCE STANDARDS

- A. Code of Federal Regulations
 - 1. 40 CFR 268-Hazardous Waste Disposal
 - 2. 40 CFR 112 - Spill Prevention Control and Countermeasure Plans
 - 3. 49 CFR 171 - 179 - Packaging, marking labeling, and shipping of Hazardous Materials.
- B. Washington State Regulations
 - 1. WAC 173-303. Washington Dangerous Waste Regulations

PART 2-PRODUCTS

NOT USED

PART 3-EXECUTION

3.01 CONTAMINATED MATERIAL SOURCES AND COLLECTION

- A. Contaminated Concrete: It is estimated that approximately 75 cubic yards of concrete contaminated with hexavalent chrome will be required to be disposed at a hazardous waste disposal facility. The Contractor shall stage this material within the footprint of the building(s) as shown on the drawings. Bulk soil adhering to the concrete shall be removed prior to loading into transport trucks. The soil may be removed using mechanical methods or by pressure washing. Contractor shall control use of the pressure washer to avoid runoff outside the building's footprint.
- B. Decontamination Wastes: Personnel decontamination facilities (provided by others) consist of a temporary decontamination area and decontamination liquid storage tank/drum. Personnel decontamination solutions will be transferred by others to the storage tank/drum.

Equipment decontamination will be the responsibility of the Contractor. Equipment decontamination will be performed by manually removing bulk soil from the equipment in an area of known pre-existing soil contamination adjacent to the northeast corner of the Frontier Hardchrome Building as shown on the drawings. After bulk decontamination has been performed, equipment shall undergo a final decontamination using a steam cleaner. Use of water for decontamination shall be kept to a minimum. After decontamination, equipment shall be moved immediately into the adjacent clean zone to avoid re-contamination.

3.02 ON-SITE MATERIAL STORAGE AND HANDLING

- A. Liquid Transfer: WESTON is responsible for decontamination liquid disposal. Disposal of other liquid wastes generated (i.e., used oil, antifreeze) is the responsibility of the Contractor. Perform liquid transfer to the Contractor's storage tanks and liquid hauling vehicles in a manner designed to eliminate spillage. Collect and dispose of spilled contaminated liquids and soils contaminated as a result of the spillage.
- B. Non-Contaminated Material: Non-contaminated material anticipated to be generated from demolition consists of wood debris, plasterboard, brick, wire, sheetmetal, interior furnishings (such as lights, sinks, toilets, etc.), concrete and other materials. Stage and handle these materials within the footprint of the building(s) as shown on the drawings. During demolition, keep non-contaminated debris from contacting the contaminated soil to minimize cross contamination.

- C. Loading: All materials (contaminated and non-contaminated) shall be loaded onto transport trucks for disposal/recycling. Transport trucks shall be staged on the clean concrete staging pad. Contact with soil inside the site boundary shall be minimized.

3.03 OFF-SITE SHIPMENT

- A. Label each shipment of contaminated material to be shipped off-site and dispose of according to its waste designation. Follow all required regulations and obtain all required permits.
- B. Off-Site shipment of any material falls under EPA's Off Site Rule. Contractor shall submit information regarding proposed off-site receiving unit in accordance with Off-site Disposal Specifications Section 02400.

END OF SECTION

SECTION 01200
PROJECT MEETINGS

PART 1-GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Construction Manager will schedule and administer pre-construction meeting, weekly progress meetings, and specially called meetings throughout progress of the work as needed. Construction Manager will:
1. Prepare agenda for meetings.
 2. Distribute written notice of each meeting two days in advance of meeting date.
 3. Make physical arrangements for meetings.
 4. Preside at meetings.
 5. Record the minutes; include significant proceedings and decisions.
 6. Reproduce and distribute copies of minutes after each meeting to:
 - a. Participants in the meeting.
 - b. Parties affected by decisions made at the meeting.
- B. Representatives of Contractors and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents.

1.02 PRE-CONSTRUCTION MEETING

- A. Schedule prior to commencement of construction.
- B. Time and Location: a central site, convenient for all parties, mutually agreed upon.
- C. Attendance:
1. Construction Manager.
 2. EPA Representative
 3. Resident Engineer
 4. Contractor's Project Manager and Project Superintendent.
 5. Governmental representatives as appropriate.
 6. Others as appropriate.

- D. Unless previously submitted to the Construction Manager, Contractor will bring the following items:
1. Construction schedule.
 2. Schedule of Values.
 3. Required Submittals.
- E. Agenda will include:
1. Distribution and discussion of:
 - a. List of major Contractors and suppliers.
 - b. Projected Construction Schedules.
 2. Construction Schedule and critical work sequencing.
 3. Major equipment deliveries.
 4. Designation of responsible personnel.
 5. Procedures and processing of:
 - a. Field decisions.
 - b. Proposal requests.
 - c. Submittals.
 - d. Change Orders.
 - e. Applications for Payment.
 6. Adequacy of distribution of Contract Documents.
 7. Procedures for maintaining Record Documents.
 8. Use of premises:
 - a. Office, work and storage areas.
 - b. Other
 9. Construction facilities, controls and construction aids.
 10. Temporary utilities.
 11. Safety and first-aid procedures.
 12. Security procedures.
 13. Housekeeping procedures.
 14. Contractor's provisions for spill prevention control and counter measures and emergency contingency plan.
 15. A site reconnaissance to verify that the design criteria plans, drawings and specifications are understood.
 16. City, community and local business issues.

1.03 PROGRESS MEETINGS

- A. Construction Manager will schedule regular weekly meetings.

- B. Location of the meetings: Meetings will be held at project site unless otherwise directed by Construction Manager.
- C. Attendance:
1. Construction Manager
 2. Contractor(s)
 3. Others, as appropriate
- D. Purpose of Meeting:
1. Review of work progress since previous meeting.
 2. Field observations, problems, conflicts.
 3. Problems which impede Construction Schedule.
 4. Corrective measures and procedures to regain projected schedule.
 5. Revisions to Construction Schedule.
 6. Progress, schedule during succeeding work period.
 7. Review submittal schedules; expedite as required.
 8. Maintenance of quality standards.
 9. Pending changes.
 10. Review proposed changes for:
 - a. Effect on Construction Schedule and on completion date.
 - b. Effect on cost
 11. City, community and local business issues.
 12. Other business.

PART 2-PRODUCTS

NOT USED

PART 3-EXECUTION

NOT USED

END OF SECTION

SECTION 01300
SUBMITTALS

PART 1 - GENERAL

1.01 SUMMARY

- A. Assume responsibility for developing, reviewing, editing and preparing submittals to satisfy the requirements of each specific section of the contract documents.

1.02 FORMAT

- A. The transmittal sheet provided in Attachment 01300-1 shall accompany each submittal with the following information furnished:
 - 1. Project Name
 - 2. Submittal Title
 - 3. Submittal Number
 - 4. Reference Section
 - 5. Date
 - 6. Name of contractor, subcontractor, supplier and manufacturer.
 - 7. Changes from Contract Document.
 - 8. Identification of revisions on submittals.
 - 9. Contractor's stamp, initialed or signed, certifying review of submittal.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 SUBMITTAL REQUIREMENTS

- A. A list of submittals, including the specification section reference and time due, is summarized in Table 01300-1. This list may not include all submittals required by this contract and is intended only to aid the Contractor in his timely and complete

submission of all items required without delay to the project. All submittals shall be provided to the Construction Manager.

Table 01300-1 Contractor Submittals

Item	Reference Section	Review Period (Calendar Days)	Submittal Due
Schedule of Values	01025	14	7 days after Notice to Proceed
Monthly Invoice	1025	7	5 working days after months end
Payment Application and Certificate	01027	7	Monthly Invoice
Payment Application and Certificate Signature Page (Final Payment)	01027	7	Final Invoice
Preconstruction Survey	01100	7	7 days prior to site mobilization
Coordination with Local Authorities	1100	7	7 days prior to site mobilization
Dust Fixative	1100	7	7 days prior to site mobilization
Labor and Material Bond	Bidders Information	N/A	with signed contract
Performance Bond	Bidders Information	N/A	with signed contract
Preliminary Schedule	01310	7	7 days after Notice of Award
Monthly Progress Reports	01310	7	With payment application
Weekly Reports and Schedules	01310	7	2 working days after end of week
Reports of Problems	01310	7	As required
Schedule of Estimated Payments	01310	7	5 days after approval of project schedule and schedule of values
Contractors Health and Safety Plan	01390	14	7 days after Notice to Proceed
Employees Safety Training Documentation	01390	14	With Contractors HSP
Logs and Reports	01390	7	Weekly

Table 01300-1?Contractor Submittals (Continued)

Item	Reference Section	Review Period (Calendar Days)	Submittal Due
Qualifications of Site Safety Officer	01390	14	With Contractors HSP
Notice of Substantial Completion and Punch List	01700	N/A	At requested substantial completion
Written Certification for Final Inspection	01700	1	7 days prior to final inspection
Record Documents	01700	N/A	Contract closeout
Affidavit of Payment of Debts and Claims	01700	14	Final Payment
Affidavit of Release of Liens	01700	14	Final Payment
Final Adjustment of Accounts	01700	14	Final Payment
Certificate of Insurance for Completed Operations	01700	14	Final Payment
Final Application for Payment	01700	7	At Project Completion
Record Documents	1720	14	At Project Completion
Security Protocols	01850	5	5 days prior to preconstruction conference
Contractor Work Plan	02050	14	14 days after Notice to Proceed
Utility Disconnection Documentation	02050	1	Upon completion of utility disconnection
Summary of Work Completed	02050	N/A	Project Closeout
Manifests	02300	N/A	When generated and after disposal facility receipt of waste
Disposal Facilities	02400	30	With bid and 7 days after Notice to Proceed
Verification of receipt, weight and disposal of wastes	02400	NA	Within 14 days of receipt at disposal facility

- B. Schedule submittals timely to specified review time and need for approval to not delay the work; all impacts associated with untimely and/or incomplete submittals will be at Contractor's expense.

C. Number of submittals required: Three copies.

3.02 Construction Manager's Duties

A. The Construction Manager's duties relative to the submittals are as follows:

1. Review for general conformance with Contract Documents.
2. Affix stamp and initials or signature indicating the review of submittal.
3. Return submittals to Contractor for distribution.

B. Disposition will be one of the following:

1. No Exception Taken - Item changed or replaced from original Contract document is accepted.
2. Make Corrections Noted - Correct items as noted.
3. Rejected - Item was completely rejected, Contractor is to follow directions as noted.
4. Revise and Resubmit - Address written comments and resubmit item(s).
5. Submit Specified Item - Submit item as noted.

3.03 RESUBMITTAL REQUIREMENTS

A. Make corrections or changes in the submittals required and resubmit until approved.

1. Revise initial submittals and resubmit as specified for the initial submittal. Indicate changes which have been made.

B. Accompany resubmittals with a transmittal sheet. In the transmittal sheet show the number assigned to the original submittal.

3.04 REVISIONS TO OTHER DOCUMENTS

A. Approved Contractor submittals may differ from WESTON prepared documents, such as the Site Management Plan. In such cases, WESTON will document the approach proposed in WESTON approved Contractor submittals for the project record.

END OF SECTION

ATTACHMENT 01300-1

TRANSMITTAL OF CONTRACTOR'S SUBMITTAL

TRANSMITTAL OF CONTRACTOR'S SUBMITTAL
 (ATTACH TO EACH SUBMITTAL)

DATE _____

TO _____
 WESTON SOLUTIONS, INC.

SUBMITTAL NO. _____
 ~ NEW SUBMITTAL ~ RESUBMITTAL
 PREVIOUS SUBMITTAL NO. _____

FROM _____
 CONTRACTOR

PROJECT _____
 WORK ORDER _____
 SPECIFICATION SECTION NO. _____
 (COVER ONLY ON SECTION WITH EACH TRANSMITTAL)

SUBMITTAL FOR: ~ SHOP DRAWINGS ~ MATERIAL DATA ~ SAMPLES ~ O & M MANUAL INFORMATION
 ~ PROPOSED SUBSTITUTION ~ OTHER _____

THE FOLLOWING ITEMS ARE HEREBY SUBMITTED FOR REVIEW AND ACTION:

DESCRIPTION OF ITEM SUBMITTED (TYPE, SIZE, MODEL NUMBER, ETC.)	MFG. OR CONTR. CAT., DRAWING OR BROCHURE NO.	NO. OF COPIES	SPEC. SEC. NO.

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated, and are stamped accordingly

 NAME OF CONTRACTOR

 SIGNATURE OF CONTRACTOR

SECTION 01310
CONSTRUCTION SCHEDULING

PART 1 - GENERAL

1.01 BASIC REQUIREMENTS

- A. Prepare and submit the following construction scheduling documents in accordance with the terms of this Section:
1. Schedules.
 2. Weekly progress reports.
 3. Schedule of estimated payments.

1.02 SUBMITTALS

- A. Preliminary Schedule: Prepare and submit to the Construction Manager a written schedule fixing the respective dates for the start and completion of various parts of the work. Schedules shall be reviewed by the Construction Manager and are subject to change during the progress of Work. Submit this schedule within 7 days after Notice of Award.
- B. Monthly Progress Reports: Submit Monthly Progress Reports to the Construction Manager with each application for payment. Such reports shall include the progress to date, modified activities since the previous submission, and revised projections of progress and completion.
- C. Weekly Progress Reports: Provide weekly reports and updated schedules.
- D. Reports of Problems: Provide a narrative report as soon as a major problem is identified to define:
1. Problem areas or major changes in the scope, anticipated delays, and the impact on the schedule.
 2. Corrective action recommended and its effect.

3. The effect of changes on schedules of any subcontractor(s).

1.03 SIGNIFICANCE OF CONSTRUCTION SCHEDULING DOCUMENTS

- A. The percentage completion reported for each activity as listed in the weekly progress report and the prices of those activities as stated in the Schedule of Values will be used in part to determine the amount of each payment to the Contractor.
- B. The schedule and progress reports will be primary references in evaluating claims for delay and requests for time extensions.
- C. No payments will be made to the Contractor until acceptable schedules, the initial schedule of estimated payments and the initial progress reports have been received and approved by the Construction Manager.

1.04 DEFINITIONS

- A. Activity: An item of work as defined in more detail later in this Section.
- B. Event: A point in time representing the completion of two or more activities and illustrated by the intersection of two or more arrows. An event has no time duration.

1.05 SCHEDULE

- A. Preparation of Schedules
 1. Plot all activities on bar charts graduated in days.
 2. Organize the bar charts so that activities in a given sub-network are plotted in numerical order on a given bar chart or charts.
 3. Represent each sub-network by a single bar on a summary bar chart.
 4. Show the following information on each bar chart:
 - a. Project title and number.
 - b. Date of preparation.
 - c. Identification number and abbreviated title for each activity.
 - d. Week ending dates and vertical lines marking same.
 - e. Annotation or symbol which indicated when an activity was actually finished.
 - f. Symbol and abbreviation legend.

- g. Activity interdependence on other activities.
5. Prepare schedules on 8.5-inch by 11-inch sheets.
- B. Updating and Submittal of Schedules
- 1. For initial schedule submit 4 copies.
 - 2. Submit the initial schedule 7 days after Notice of Award.
 - 3. Update the schedules each week and submit with the weekly progress reports.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 WEEKLY PROGRESS REPORTS

- A. Preparation of Weekly Progress Reports
- 1. Begin preparation of weekly progress reports promptly after the last working day of each week.
 - 2. Include the following information:
 - a. List of activities completed during reporting period.
 - b. List of activities started during week.
 - c. List of upcoming critical activities.
 - d. List of activities not finished by scheduled completion date.
 - e. Unit quantities of work completed (where paid by unit quantity).
 - f. Title and number of project.
 - g. Date of report, i.e., last working day of week covered by report.
 - 3. Include the following information in the letter of transmittal:
 - a. Problem areas
 - b. Anticipated delays
 - c. Recommended actions

B. Submittal of Weekly Progress Reports

1. Submit two copies to Construction Manager within 2 working days after the end of the reporting period.
2. Submit reports for each week of the contract period.

3.02 SCHEDULE OF ESTIMATED PAYMENTS

A. Preparation

1. Indicate the estimated amount of each progress payment to be made to the Contractor during each contract payment period. Also, indicate the amount of the final payment.
2. Base schedule on approved Schedule of Values and approved project schedule.
3. Deduct retainage from progress payments. Retainage shall be 10 percent of the first 50 percent of the contract price. Refer to article 32 of the Contract Agreement.

B. Submittal and Updating

1. Submit initial schedule of estimated payments within 5 working days after receipt of approved schedule of values, and project schedule.
2. Submit on 8 1/2 inches by 11 inch paper.

END OF SECTION

SECTION 01390
HEALTH AND SAFETY

PART 1 - GENERAL

1.01 SUMMARY

- A. Minimum Health and Safety Requirements: Health and safety are the sole responsibility of the Contractor. Contractor shall take precautions to prevent damage, injury or loss to all employees on the work site and other persons who may be affected thereby.
- B. Principal Work Items.
 - 1. Prepare a Contractor-specific Health and Safety Plan (HSP) which complements the Site HASP prepared by WESTON.

1.02 REFERENCES

- A. All applicable OSHA requirements.
- B. Requirements for Worker Health and Safety included in the National Oil and Hazardous Substances Contingency Plan (40 CFR 300.38).
- C. All applicable State of Washington Regulatory requirements.
- D. All applicable City of Vancouver Regulatory requirements.
- E. All applicable Clark County Regulatory requirements.
- F. CERCLA Sections (Superfund).
- G. SARA Sections (Superfund).
- H. Contingency Plan
- I. Site Management Plan

J. WESTON Health and Safety Plan

1.03 SUBMITTALS

- A. Contractor shall submit proposed Health and Safety Plan within 7 calendar days of Notice to Proceed.
- B. Submit employee safety training documentation (doctor certifications, 40-hour training, 8-hour refresher and recent medical examination) with the HSP.
- C. Logs and Reports.
 - 1. Safety Inspection Log.
 - 2. Check In/Check Out Log for the Site.
- F. Qualifications of Site Safety Officer.

1.04 DEFINITIONS

- A. Site Health and Safety Coordinator (SHSC). Construction Manager's representative responsible for ensuring Site Safety Officer implementation of the HASP.
- B. Site Safety Officer (SSO). Contractor's representative directly responsible for the daily implementation of the HSP.
- C. Contaminated Material. Material which cannot legally be disposed of except in a Class 1, 2 or 3 Hazardous Waste Disposal facility.
- D. Exclusion Zone: Any portion of the project area in which hazardous chemicals are present, or may be reasonably suspected to be present in any medium (e.g., air, concrete, paint, soil, groundwater, etc.).
- E. Contamination Reduction Zone (Transition Area): Area between the Exclusion Zone and Clean Zone which provides a transition between contamination and clean areas. Decontamination Stations are located in this zone.
- F. Clean Zone: Any portion of the site outside the Exclusion Zone and the Contamination Reduction Zone. Support equipment is located in this zone.
- G. Monitoring: The use of direct reading field instrumentation to provide information regarding the levels of dust, contaminated particulate, or vapors in the air. Monitoring

will be conducted to evaluate employee exposures to toxic materials and hazardous conditions.

- H. Health and Safety Plan (HSP): Site Health and Safety Plan prepared by the Contractor approved for the specified Work.
- I. Gaseous Conditions. (Use OSHA definition).
- J. Potentially Gaseous Conditions. (Use OSHA definition).
- K. Non-gaseous Conditions. (Use OSHA definition).
- L. OSHA Permissible Exposure Limits (PEL). Time weighted average (TWA) concentrations to which most workers can be exposed for 40 hours per week on a permanent basis with no significant health effects. These concentrations are enforceable OSHA standards. (Source: NIOSH/OSHA; Pocket Guide to Chemical Hazards).
- M. Immediately Dangerous to Life and Health (IDLH). Concentrations representing a condition that is likely to cause death or immediate or delayed permanent adverse health effects or prevent the escape from such an environment.
- N. Threshold Limit Values - Time Weighted Averaged (TLV-TWA). Time weighted average concentrations to which most workers can be exposed for 40 hours per week on a permanent basis with no significant health effects. They are similar to PELs except that they are not enforceable standards and are updated annually. (Source: ACGIH Threshold Limit Values and Biological Exposure Indices).

1.05 SITE SAFETY REGULATIONS

- A. Contact with contaminated or suspected contaminated surfaces should be avoided.
- B. Alcoholic beverages and controlled substances shall not be allowed on site.
- C. A Contractor HSP shall be developed for all phases of site operations and made available to all personnel.
- D. All Contractor personnel shall be familiar with standard operating safety procedures and any additional instructions and information contained in the site HSP.
- E. All personnel shall adhere to the Construction Manager's HASP and Contractor's HSP.

- F. All personnel going on site shall be adequately trained and thoroughly briefed on anticipated hazards, safety equipment to be employed, safety practices to be followed, emergency procedures and communications.
- G. Entrance and exit locations shall be designated and posted, and emergency escape routes shall be delineated. Warning signals for site evacuation must be established and communicated to all personnel.
- H. The Contractor shall clearly establish the exclusion zone using markers or fencing.

1.06 MEDICAL CARE

Medical care is divided into routine health care and emergency medical care and treatment.

- A. Routine Health Care. Routine health care shall provide special medical examinations, care and counseling in the case of potential, known or suspected exposure to toxic substances. Any special tests needed depend on the chemical substance to which the individual has been exposed.
- B. Emergency Medical Care and Treatment. The Contractors Medical Program shall address emergency medical care and treatment of project personnel.
 - 1. Posted name, address and telephone number of nearest medical facility with map, travel time and directions from each job site.
 - 2. Investigation of local emergency organizations to respond to potential emergencies at the site. If local organizations are unable to adequately respond, other emergency prearrangements shall be made.
 - 3. Arrangements shall be made to quickly obtain emergency services. Telephone numbers and procedures shall be posted.

1.07 SITE SAFETY OFFICER

- A. Site Safety Officer.
 - 1. Qualifications.
 - a. One or more years relevant experience.
 - b. Current certification in First Aid and CPR procedures.

2. Responsibilities.
 - a. Direct Health and Safety activities on-site.
 - b. Report safety-related incidents to SHSC and fill out Lost Time Incident forms as required.
 - c. Implement Health and Safety Plan.
 - d. Maintain Health and Safety equipment.
 - e. Perform air monitoring as required by the Contractors Health and Safety Plan under the supervision of the Site Health and Safety Coordinator.
3. Authority.
 - a. Suspend field activities if health and safety of personnel are endangered.
 - b. Suspend an individual from field activities for infractions of the Health and Safety Plan.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 GENERAL

- A. Contractors Health and Safety Program shall contain:
 1. Project-specific Health and Safety Plan.
 2. Health and Safety Training Program.
 3. Standard Operating Procedures.
 4. Air Monitoring Program (as required).
- B. Minimum requirements are presented in this section. Contractor shall develop program using these elements as a basis, adding additional requirements as deemed necessary.

3.02 HEALTH AND SAFETY PLAN

A. General

1. Minimum requirements for Health and Safety Plan are presented in this section. Contractor shall develop a job specific Health and Safety Plan using these elements as a basis, adding additional requirements as deemed necessary by the Contractor. Contractor shall not commence work prior to Construction Manager's review of Health and Safety Plan.
2. The Health and Safety Plan shall establish guidelines for the safety of personnel during the conduct of work. Contractor shall provide a copy of the Health and Safety Plan to each employee. All employees shall be required to read the Health and Safety Plan, sign a compliance agreement and abide by all provisions of the Health and Safety Plan. The Health and Safety Plan may be modified by the SSO in response to site conditions.
3. Health and Safety Plan shall include:
 - a. Site Description
 - b. Project Description
 - c. Hazard Assessment
 - d. List of Key Personnel
 - e. Air Monitoring Program (as required)
 - f. Emergency Response Procedures
 - g. Employee Training and Medical Monitoring Programs
 - h. Standard Operating Procedures
 - i. Engineering Controls (ventilation, etc.)
 - j. Decontamination Procedures
 - k. Delineation of the exclusion zone

B. Site Description. Physical description of site and site conditions. Site specific data pertaining to hazards. Identifies hazards known at time. If additional hazards are discovered, they should be added to this section by change order.

C. Project Description. Project-specific description of work to be performed.

D. Hazard Assessment. Hazard assessment shall address strategies for protection of workers against the following hazards:

1. For activities which involve no hazardous material contact, primary hazards are

- physical hazards associated with construction, use of heavy equipment and fire hazards.
2. For activities which involve only limited or the potential for hazardous material contact, the following hazards shall be protected against:
 - a. Physical hazards associated with construction, use of heavy equipment and fire hazards.
 - b. Heat stress (as appropriate).
 - c. Inhalation of contaminants.
 - d. Skin or eye contact with contaminants.
 - e. Ingestion of contaminants.
 3. For activities which involve direct contact with hazardous materials, the following hazards shall be protected against:
 - a. Physical hazards associated with construction, use of heavy equipment and fire hazards.
 - b. Heat stress (as appropriate).
 - c. Inhalation of contaminants.
 - d. Skin or eye contact with contaminants.
 - e. Ingestion of contaminants.
- E. List of Key Personnel. Health and Safety Plan shall identify key Contractor personnel responsible for site safety as outlined in article 1.07. A list of the names of these individuals shall be conspicuously posted at the site.
- F. Air Monitoring Program.
1. Health and Safety Plan shall designate personnel responsible for implementing the air monitoring program.
 2. The Site Safety Officer shall be responsible for enforcing established Air Action Levels.
 3. The Air Monitoring Program shall be described in detail in the Health and Safety Plan and as a minimum shall include:
 - a. Work Area Monitoring Program during construction activities.
 - b. Personnel monitoring, as appropriate.

4. During construction activities, a Work Area Monitoring Program shall be implemented including surveys of work areas and vicinity with at least the following:
 - a. Dust Monitoring Instrument.
5. Action Levels
 - a. Real time aerosol monitor reading exceeding the nuisance dust threshold of 2.5 mg/m^3 .

G. Emergency Response Procedures.

1. Emergency Response Procedures shall be included in the Contractor Health and Safety Plan.
2. Response actions to control releases of contaminants shall be included in the Contractor Health and Safety Plan.

3.03 TRAINING REQUIREMENTS

- A. Contractor shall provide training to all of its employees and of its contractors that will be assigned to the project which complies with the requirements of 29 CFR 1910.21. Training shall cover:
1. Names of personnel and alternates responsible for site health and safety.
 2. Health and safety hazards present on site.
 3. Personal protective equipment use, care and limitations.
 4. Work practices that minimize risks from hazard.
 5. Safe use of engineering controls and equipment on site.
 6. Hazard Communication (right-to-know program).
 7. Site control measures.
 8. Site standard operating procedures.
 9. Contingency plan.
 10. Confined space entry procedures (as needed).

In addition, employees who are responsible for responding to emergency situations shall be trained in how to respond to any anticipated emergency conditions.

B. Emergency Response Training

1. Fire Extinguisher Training. At least one member of each crew shall be trained in the use of portable fire extinguishers in accordance with 29 CFR 1910.157g.

C. Visitor Training. Contractor shall be responsible for training visitors to the site in order to make them aware of hazards associated with the site and explain emergency procedures.

3.04 STANDARD OPERATING PROCEDURES

Contractor shall develop and implement Standard Operating Procedures. At a minimum, the following Standard Operating Procedures shall be written:

- A. Heat Stress Prevention Plan (as appropriate).
- B. Respiratory Protection Plan.
- C. Incident/Accident Reporting Procedures.
- D. Site Control Procedures.
 1. Security Procedures.
 2. Communication Procedures.
 3. Site Layout.
 4. Work Zones.
 5. Documentation of site access.

3.05 INSPECTIONS

It shall be the responsibility of the Contractor to determine and document that the Health and Safety Program is being followed in accordance with minimum requirements of this specification and any additional requirements of the Contractor Health and Safety Plan. This shall be accomplished through the use of inspections and audits conducted by the Site Safety Officer and staff on a daily basis and by the SHSC as required.

3.06 RECORD KEEPING

Contractor shall maintain, as a minimum, the records specified in this section and any additional records required to develop, implement and maintain requirements of the Contractor Health and Safety Plan.

3.07 REPORTING

- A. Contractor shall provide submittals in accordance with article 1.03 of this section.
- B. Contractor shall notify Construction Manager when work may affect adjacent properties. All damage, injury or loss of any property caused by the work shall be remedied by the Contractor at no additional cost to the Construction Manager.

END OF SECTION

SECTION 01500
CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. WESTON will arrange for a portable toilet for the site. Contractor will be given access to this facility.
- B. The Contractor shall arrange and pay for any additional temporary facilities desired during construction that are not provided by WESTON.
- B. Temporary facilities includes, but not limited to the following:
 - 1. Electrical Service
 - 2. Lighting
 - 3. Heating and Ventilation
 - 4. Telephone Service
 - 5. Water
 - 6. Sanitary Facilities
 - 7. First Aid Facilities
 - 8. Fire Protection
 - 9. Field Offices and Sheds

1.02 GENERAL REQUIREMENTS

- A. Comply with applicable local, county, and state ordinances and building code.
- B. Complete work in neat and orderly manner.
- C. Maintain to give continuous service and to provide safe working conditions.

D. Modify and extend service as work progress requires.

F. Pay all costs associated with temporary facilities and services specified herein.

1.03 ELECTRICAL SERVICE

A. Arrange for temporary service to be installed as needed.

B. Furnish all temporary electric power systems required to perform work.

1.04 LIGHTING

A. Provide lighting for construction operations and security (as required).

B. Permanent lighting may be used when available.

C. Maintain lighting and make routine repairs.

1.06 TELEPHONE SERVICE

A. Provide temporary telephone service for all construction needs (Contractor only) throughout construction period.

B. Provide directory at each instrument, listing the name and business telephone number of:

1. Contractor and all subcontractors employed at work site.
2. EPA representatives.
3. Medical Services:
 - a. Physicians.
 - b. Hospitals.
 - c. Ambulance service companies.
4. Emergency numbers of all utilities.
5. Police
6. Fire Departments

1.07 WATER

A. Provide temporary distribution system and taps as required.

1.08 SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures.
- B. Provide temporary sanitary facilities as needed including:
 - 1. Portable containers to dispense potable drinking water.
 - 2. Washing facilities including eye wash fountains.

1.09 FIRST AID FACILITIES

- A. Provide first aid station in Contractors' field office or shed of equal quality.
- B. Provide full compliment of first aid supplies in weatherproof container at first aid station.

1.10 FIRE PROTECTION

- A. Provide sufficient number of portable fire extinguishers, rated 2A minimum, throughout the site.
- B. Provide means of notifying personnel in case of emergency.
- C. Ensure internal combustion engine powered equipment is located at safe distance from combustible materials.
- D. Prohibit smoking on entire site, and clearly post "No Smoking" signs.
- E. Flammable/Combustible Liquids
 - 1. Store flammable/combustible liquids in conformance with requirements of federal and local codes and regulations.
 - 2. Provide approved metal safety containers for storage of flammable/combustible liquids in excess of 1 gallon.
 - 3. Prohibit storage of flammable/combustible liquids near exits, stairways or common passageways.

1.11 FIELD OFFICES AND SHEDS

- A. Provide field offices with the following features:
 - 1. Doors with locks.
 - 2. Electric lighting and convenience outlets.

B. Provide storage sheds with the following features:

1. Weathertight construction as needed.
2. Sufficient space to provide for inspection.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION

SECTION 01505
MOBILIZATION/DEMobilIZATION

PART 1 - GENERAL

1.01 SUMMARY

- A. The work covered by this part includes furnishing all labor, materials and equipment, under the following provisions, to qualify for the Mobilization payment.

1.02 DESCRIPTION

- A. Mobilization/Demobilization shall include:
1. Construction of temporary facilities, office space, and mobilization of all construction equipment, materials, supplies, appurtenances, and the like, manned and ready for commencing and performing the Work.
 2. Set up exclusion zones, debris staging areas, silt fence, heavy equipment decontamination areas, storm drain protection, safety equipment, and equipment sheds (as required), as indicated on the drawings. Contractor shall install "Do Not Enter, Exclusion Area - Authorized Personnel Only" signs on the exclusion zone boundary.
 3. Obtaining all permits necessary to perform the work as well as any bonding required by the contract documents.
 4. Delivery to the site equipment, materials, and supplies necessary for performance of the Work but which are not intended to be incorporated in the work; the preparation of the work areas; personnel required to commencing actual work; and all other preparatory work required to permit commencement of the actual work on demolition items for which payment is provided under the Contract.
 5. Decontamination of temporary facilities, equipment, materials, supplies, appurtenances; and cleaning of the "Clean Staging Area" at the end of site work. Road cleaning shall be completed as necessary to remove site soil tracked onto roadways.

6. Subsequent removal from the site of all construction equipment, materials, supplies, appurtenances, temporary facilities and the like upon completion of the work. The silt fence around the work site is to remain in place. Storm drain protection devices shall be removed.
7. Removal of all liquids (excluding equipment decontamination solutions) generated by the Contractor.
8. Provision of bonds and insurance.
9. Preparation of required submittals.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION

SECTION 01700
CONTRACT CLOSEOUT

PART 1 - GENERAL

1.01 SUMMARY

- A. Prior to project closeout, the Contractor shall prepare and provide all documentation required in this section, unless otherwise noted.

1.02 SUBSTANTIAL COMPLETION

- A. When the Contractor considers the work to be substantially complete, the Contractor shall notify the Construction Manager and prepare a written request to establish the date of substantial completion accompanied by a list of deficiencies ("Punchlist") for project elements and reports of inspections made. The Construction Manager will issue a Certificate of Substantial Completion containing:
1. Date of Substantial Completion.
 2. Contractor's list of items to be completed or corrected as verified and amended by Construction Manager.
 3. The time required to complete or correct work of listed items.
 4. Signatures of Contractor's project manager.
 5. A place for signature of Construction Manager.
- B. Contractor shall finish work listed for completion or correction, within designated time.
- C. Construction Manager will make an inspection following receipt of Contractor's Notice and Punchlist, and prior to issuing the Certificate of Substantial Completion. If the work is deemed not substantially complete:
1. Contractor will be notified, in writing, stating reasons.

2. Contractor will then complete Work, and send second written notices to Construction Manager, certifying that Work or designated portion of Project, is substantially complete.
3. Construction Manager will re-inspect Work.

1.03 FINAL INSPECTION

A. Submit written certification 7 days prior to final inspection that:

1. Contract Documents have been reviewed.
2. Project was inspected for compliance with Contract Documents.
3. Work was completed in accordance with Contract Documents.
4. Work is completed and ready for final inspection.

B. Construction Manager will make final inspection after receipt of certification. Should Construction Manager consider the Work is complete in accordance with requirements of Contract Documents, Contractor will be requested to make Project Closeout submittals.

C. Should Construction Manager consider that Work is not complete:

1. Contractor will be notified, in writing, stating reasons.
2. Contractor will take immediate steps to remedy the stated deficiencies and send second written notice to Construction Manager certifying that Work is complete.
3. Construction Manager will re-inspect Work.

1.04 CLOSEOUT SUBMITTALS

- A. Submit copies of pertinent design changes/record drawings or other notes documenting site conditions and/or work performed as requested by the Construction Manager.
- B. Deliver Certificate of Insurance for Completed Work.

1.05 EVIDENCE OF PAYMENTS AND RELEASE OF LIENS

- A. Contractor's Affidavit of Payment of Debts and Claims.
- B. Contractor's Affidavit of Release of Liens:

1. Consent Of Surety to Final Payment.
2. Contractor's release or waiver of liens.
3. Separate releases of waivers of liens for subcontractors, suppliers, and others with lien rights against property of Construction Manager Settling Agent, together with list of those parties.

C. Duly execute all above submittals before delivery to the Construction Manager.

1.06 FINAL ADJUSTMENT OF ACCOUNTS

A. Submit final statement of accounting to Construction Manager.

B. Reflect all adjustments for:

1. Original Contract Sum.
2. Additions and deductions resulting from:
 - (a) Previous Change Orders.
 - (b) Cash Allowances.
 - (c) Unit Prices.
 - (d) Other Adjustments.
 - (e) Deductions for uncorrected Work.
 - (f) Penalties.
 - (g) Deductions for liquidated damages
 - (h) Deductions for Re-inspection Payments.
3. Total Contract Sum, as adjusted.
4. Previous payments.
5. Sum remaining due.

C. The Construction Manager will prepare final Change Order, reflecting approved adjustments to Contract Sum not previously made by Change Orders.

1.07 FINAL APPLICATION FOR PAYMENT

A. Submit final application in accordance with requirements of the General Conditions and

Section 01027.

1.08 FINAL CERTIFICATE FOR PAYMENT

- A. Construction Manager will issue final certificate in accordance with provisions of the Contract.
- B. Should final completion be materially delayed through no fault of Contractor, the Construction Manager may issue a Semi-Final Certificate for Payment in accordance with provisions of the Contract.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION

ATTACHMENT 01700

INSPECTION PUNCH LIST

SECTION 01710
CLEANING

PART 1 - GENERAL

1.01 SUMMARY

- A. Maintain site in an orderly and presentable fashion throughout demolition to the extent practical. Remove and dispose debris and rubbish from the site.

1.02 DISPOSAL REQUIREMENTS

- A. Contaminated Material: Conduct cleaning and disposal operations to comply with codes, ordinances, regulations, and anti-pollution laws. Safeguard, transport, and properly dispose of all substances. Do not co-mingle contaminated materials with non-contaminated materials. Contractor shall notify the Construction Manager of the proposed disposal facility for contaminated material per EPA's Off Site Rule.
- B. Non-Contaminated Material: Material, debris, and rubbish which contain no hazardous materials may be disposed in an approved construction debris landfill or recycled. Recycling is strongly encouraged.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 DURING DEMOLITION

- A. Site Maintenance: Clean the site periodically to keep the work area and adjacent properties free from accumulations of dangerous waste materials, garbage, rubbish and windblown debris resulting from demolition.
- B. Containers: Provide on-site containers for the collection of non-contaminated refuse,

materials, debris, and rubbish that will not be sent to a construction debris landfill or recycled. Arrange for these containers to be emptied periodically to prevent overflow. Place materials exceeding contamination levels in DOT approved containers. Protect containers from damage or rupture during remedial activities. Dispose of containers at project completion or sooner, if necessary. Do not use adjacent businesses disposal containers for disposal of Contractors debris or rubbish.

- C. Disposal: Remove contaminated and non-contaminated waste materials, debris and rubbish from the site as often as necessary to facilitate demolition and haul to appropriate disposal facilities.
- D. Burning: Burning of debris on site is prohibited.
- E. Liquid Waste: Disposal of contaminated liquid wastes and other chemical wastes in storm or sanitary sewer systems is not permitted. Place liquids in chemically resistant containers. Make arrangements with a licensed waste disposal company for removal.
- F. Roads: Demolition debris disposal trucks shall be kept on the "Clean Staging Area" when entering the site at all times as practical. Periodically inspect the roads into and out of the site. Periodically arrange for road cleaning when needed as a result of site activities. It is anticipated that during transportation of demolition debris, periodic road cleaning will be required.

3.02 FINAL CLEANING

- A. Prior to final completion, conduct an inspection of all work areas with the Construction Manager to verify that the entire site is clean. Promptly complete noted deficiencies.

END OF SECTION

SECTION 01720
PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.01 REQUIREMENTS INCLUDED

A. Maintain at the site for the Construction Manager one record copy of:

1. Drawings
2. Specifications
3. Addenda
4. Change Orders and other Modifications to the Contract
5. Construction Manager Field Orders or written instructions
6. Field Test records
7. Construction photographs
8. Health and Safety Certifications

1.02 MAINTENANCE OF DOCUMENTS

- A. Store record documents in Contractor's field office apart from documents used for construction.
- B. Maintain record documents in a clean, dry, legible condition and in good order. Do not use record documents for construction purposes.
- D. Make record documents available at all times for inspection by the Construction Manager.

1.03 MARKING DEVICES

- A. Provide red pencils for recording information.

1.04 RECORDING

- A. Label each document "PROJECT RECORD."

- B. Record information concurrently with demolition progress. Do not conceal any work until required information is recorded.
- C. Legibly mark the following information on drawings to record actual demolition:
 - 1. Size of various elements of foundations or large underground structures.
 - 2. Horizontal and vertical locations of underground and underslab utilities and appurtenances, referenced to permanent surface structures.
 - 3. Location of foundation piling identified during demolition
 - 4. Field changes of dimension and detail.
 - 5. Changes made by Field Order or by Change Order.
 - 6. Details not on original contract drawings.
- D. Legibly mark each specification Section to record:
 - 1. Changes made by Field Order or by Change Order.
 - 2. Other matters not originally specified.

1.05 SUBMITTAL

- A. At Contract close-out, deliver Record Documents to the Construction Manager.
- B. Place all letter-sized material in a three ring binder, neatly indexed.
- C. Accompany submittal with transmittal letter in duplicate, containing:
 - 1. Date.
 - 2. Project title and number.
 - 3. Contractor's name and address.
 - 4. Title and number of each Record Document.
 - 5. Certification that each document as submitted is complete and accurate.
 - 6. Signature of Contractor or his authorized representative.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION

SECTION 01850 SECURITY

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Control of all persons and vehicles entering and leaving the project site during working hours shall be provided by WESTON. WESTON shall exclude from the site personnel not properly identified. Personnel authorized to enter the site consist of Contractor employees, WESTON employees and EPA representatives. The Contractor shall:
1. Maintain a current list of Contractor's personnel and their subcontractor's personnel and submit a copy of the list to the WESTON Construction Manager.
 2. Require Contractor's personnel to sign in upon entering the site and to sign out when leaving. All Contractor personnel and their subcontractors shall be required to read and sign the Site Health and Safety Plan prior to entering the site.
 3. Allow no visitors on-site without the approval of the WESTON Construction Manager.
 4. Allow temporary access to the site through designated temporary access points. These points shall be secured when the site is unattended.
 5. Provide off-hours security personnel as deemed necessary to protect contractor's equipment.
 6. Provide physical security systems (fence, lights, etc.) as deemed necessary. An existing fence currently surrounds a portion of the site. Contractor shall verify fence meets Contractors security needs if fence is to be used.

1.02 SITE SECURITY PROTOCOLS

- A. The Contractor shall submit a set of site security protocols to the Construction Manager. These protocols shall address as a minimum:

1. Description of proposed off-hour security operations during the active demolition period.
2. Provisions for conducting off-hour security checks.
3. Provisions for conducting off-hour security patrols around the site.
4. Descriptions of how the following security breaches shall be handled:
 - a. Unauthorized personnel on the site (i.e., vandals, trespassers).
 - b. Unauthorized personnel attempting to gain access to the site.
5. Description of standard operating procedures for responses to emergency situations (i.e., contingencies, telephone numbers, radio frequencies, and call signs).

1.03 SITE SECURITY

- A. The Contractor is responsible for securing all Contractor equipment, vehicles, field offices, sheds, and employee facilities during the active construction period. Existing fence around Richardson's yard can be used by Contractor as deemed appropriate.
- B. The Contractor is responsible for coordinating with local officials for temporary barricading of roads if needed.
- C. A temporary site security fence will be installed by others as shown on the drawings. The fence will be installed at the conclusion of structure demolition.

1.04 SECURITY PERSONNEL

- A. The Contractor shall provide sufficient security as deemed necessary to accomplish the outlined requirements.
- B. The Contractor shall ensure that individuals responsible for site security have been made aware of the site hazards and provided with the training and medical examinations requirements as required to perform the Work.
- C. The Construction Manager shall have the right of approval and rejection of the security personnel assigned to the project site at any time during Contractor activities.

1.05 SECURITY EMERGENCIES

- A. The Construction Manager shall coordinate with local law enforcement officials (i.e., police/sheriff, highway patrol, emergency medical corps units, fire department, and utility emergency teams) to map out contingency plans for any emergency situation as specified in the Contingency Plan given.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION

SECTION 02050 DEMOLITION

PART 1 - GENERAL

1.01 SUMMARY

- A. This specification describes the requirements for demolition of site facilities, structures and pavement.
- B. All materials resulting from the demolition work, except as indicated or specified, shall become the responsibility of the Contractor and shall be legally removed from the site and disposed of properly or recycled. To the maximum extent possible, contaminated debris and demolition material shall be segregated from non-contaminated material. Material shall be handled and disposed/recycled as specified.
- C. Demolition shall be completed in two phases – Phase 1: Structure Demolition and Phase 2: Foundation Demolition and Piling Removal. Approximately 4 months will occur between phases.

1.02 SUBMITTALS

- A. The Contractor is to prepare and submit a Contractor Work Plan, to be approved by the Construction Manager. Contractor Work Plan shall be submitted 14 days after Notice to Proceed. The Work Plan shall include, at a minimum, the following:
 - 1. Methods, equipment and materials to be used during the demolition.
 - 2. Describe coordination for shutting off, capping and removing utilities.
 - 3. Demolition and removal schedule and work hours.
 - 4. Site Map which depicts equipment arrangements and material staging and decontamination areas.
 - 5. Methods for removal of jib and gantry cranes and power panels to prevent damage.
 - 6. Transportation requirements including disposal facilities and routes.
 - 7. Hazardous/non-hazardous material handling and segregation. Methods and approaches to be used to remove soil from concrete/asphalt prior to recycling/disposal.
 - 8. Material to be recycled and proposed recyclers.

9. Provisions for environmental protection, including dust control, noise control, stormwater control, erosion protection, and other environmental factors.
10. Provisions for preventing contamination of non-contaminated material.
11. Methods for completing test excavations including approach to keep excavated soil contamination from contacting surface soil.

- B. At the conclusion of work, submit a summary of the work completed detailing quantities of debris removed and final disposition, quantity and type of material reclaimed with certification of disposal, location and type of site anomalies (e.g., utilities not previously identified, etc.).

1.03 REFERENCES

- A. American National Standard for Demolition Operations
- B. American National Standard Institute (ANSI) Publications
- C. Demolition and Disposal Plan (DDP)

1.04 EXISTING CONDITIONS

- A. The facilities to be demolished are shown on the Drawings.
- B. The exact conditions of the facilities and surrounding areas will be observed by the Contractor during the mandatory pre-bid site walk through.

1.05 SEQUENCE AND SCHEDULE

- A. Perform all work in accordance to the approved demolition and removal schedule. Obtain written approval from the Construction Manager before deviating from this schedule and/or sequence.
- B. Demolition shall be completed in two phases. The first phase shall consist of aboveground structure demolition. The second phase (to occur approximately 4 months later) shall consist of on-ground and underground (e.g., foundation slab, piling, footing) structure removal.
- C. Plan operations to minimize temporary disruptions of utilities to existing facilities or adjacent property.

1.06 SAFETY

- A. Perform all work in accordance with the following:
 - 1. ANSI codes for safety in demolition operations
 - 2. All applicable OSHA regulations
 - 3. Site Health and Safety Plan
 - 4. Site Management Plan
- B. Demolition operations shall be conducted in a manner that will ensure the safety of persons and property and to prevent damage by falling debris. Contractor shall complete the demolition such that 1) the adjacent Cassidy Building and its utilities are not damaged, 2) access to the Cassidy facility is not impeded and parking is not obstructed, 3) personnel working adjacent to the site are not in danger from demolition activities.
- C. The sequence of operations shall be such that maximum practicable protection from inclement weather will be provided for materials and equipment located in partially dismantled structures.
- D. The use of explosives shall not be permitted.
- E. Thermic and other flame cutting operations will be minimized; however, special precautions will be taken when required to reduce the possibilities of fires or explosions.
- F. On-site burning is strictly prohibited.

1.07 EXISTING UTILITIES TO REMAIN

- A. The Contractor shall conduct his work with a minimum disturbance of existing utilities and it shall be his responsibility to coordinate all work in or near the utilities with the utility owners. The Contractor shall inform utility owners sufficiently in advance of his operations to enable them to identify and locate, reroute, provide temporary detours or to make other adjustments to utility lines in order that Work may proceed with a minimum of delay. The Contractor shall cooperate with all utility owners concerned for any utility adjustments necessary.
- B. All utilities to remain shall be maintained in service and protected against damage. No disruption of utility service to the Cassidy Facility or other nearby facilities (not designated for demolition) shall occur.
- C. Any damage to existing utilities (not designated for demolition) shall be repaired by the subcontractor at no additional cost.

- D. Locate and mark all existing utilities that are to remain.

1.08 ENVIRONMENTAL CONTROLS

- A. Prevent the spread of dust and flying particles. Apply dust control measures to prevent visible dust at the facility boundary. If required by governing regulations, use temporary enclosures and other suitable methods to prevent the spread of dust, dirt and debris. Dust control requirements are specified in the Site Management Plan. Dust concentrations shall be controlled to less than 2.5 mg/m³.
- B. Use appropriate controls to limit noise from demolition to acceptable levels. Noise from demolition shall be limited to 70 dBA at the facility boundary.
- C. Do not use water where it can create dangerous or objectionable conditions, such as localized flooding, erosion or sedimentation of nearby storm drains. Do not use water in quantities that causes runoff from the exclusion zone.
- D. Remove equipment and materials not designated for reuse/salvage. Dispose of removed equipment, materials, waste and debris in a manner conforming to all applicable laws and regulations.
- E. Do not disturb or damage areas on or adjacent to the project site.
- F. Use controls to prevent stormwater transported sediment from disturbed areas from leaving the site.
- G. All demolition materials shall be staged within the footprint of the building until it is loaded for offsite disposal/recycle, except as otherwise noted.
- H. Contractors shall minimize transport of soil outside the contaminated soil area boundary shown on the drawings. To this end, all heavy equipment used in demolition shall be kept within the contaminated soil area, to the extent practical.
- I. Contaminated equipment shall not progress beyond the exclusion area boundary without prior decontamination.
- J. Contractor shall control runoff from the demolition area to inside the exclusion area. Runoff from inside the exclusion area to outside the exclusion area will not be allowed. If runoff is observed by the Construction Manager, Contractor will be required to construct soil berms to contain flow.

PART 2 - PRODUCTS

2.01 EQUIPMENT AND MATERIALS FOR DEMOLITION

- A. Use equipment and materials, as approved in the Contractor Work Plan.
- B. The use of a "drop hammer" shall not be used.

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Prior to demolition, make a thorough inspection to determine the condition of the structure and features adjacent to items designated for demolition.
- B. Remove any salvageable and/or recoverable materials (such as the jib and gantry cranes, and breaker panels) and wastes from within the buildings before demolition.
- C. Notify disposal facility at least 14 days in advance of the intent to haul and dispose of material. Arrange and pay for all transportation and tipping fees.
- D. Remove any free liquids (other than water) from pipes, sumps, etc. before demolition.

3.02 PROTECTION OF PERSONS AND PROPERTY

- A. Provide safe working conditions for employees throughout demolition and removal operations. Observe all safety requirements for work below grade.
- B. Maintain safe access to adjacent property and buildings at all times. Do not obstruct roadways, sidewalks or passageways adjacent to the work.
- C. Perform demolition in a manner to prevent damage to adjacent property. Repair damage caused by the contractor or his subcontractors to City property or adjacent property and facilities.
- D. The Contractor shall be responsible for safety and integrity of adjacent structures and shall be liable for any damage due to movement or settlement. Cease operations if an adjacent structure appears to be endangered. Resume demolition only after proper protective measures have been taken.

- E. Erect and maintain enclosures, barriers, warning lights, and other required protective devices.

3.03 UTILITY SERVICES

- A. Follow rules and regulations of authorities or utility companies having jurisdiction over water, natural gas, electricity, or telephone services.
- B. All utilities (including drains) shall be disconnected, capped, or shutoff prior to demolition.
- C. Once all utilities have been disconnected, inform the Construction Manager in writing that utilities have been disconnected and provide a list of the utilities disconnected. Upon review by the Construction Manager, approval to begin building demolition will be given as appropriate.

3.04 BUILDING DEMOLITION

- A. Asbestos inspections and asbestos removal (if necessary) will be performed by others prior to the Contractor arriving onsite. WESTON will subcontract the services of a certified asbestos inspection/removal company for asbestos inspection and removal.
- B. Remove the 13 jib cranes and 1 gantry crane in the Richardson Metals Buildings and 1 gantry crane in the former Frontier Hardchrome Building. These cranes are to be removed to the extent practical prior to beginning building demolition. Remove the 15 breaker panels in the Richardson Building before demolition. Store removed items in the location as shown on the drawings. The location where the removed items will be stored is in the clean zone. Contractor shall either transfer removed items from equipment in the exclusion zone to transport equipment waiting in the clean zone or shall decontaminate transport equipment as it passes from the exclusion zone to the clean zone. Tracking contamination between zones will not be allowed.
- C. Known underground utilities are indicated on the Drawings. Before starting demolition, establish location and extent of on-site underground utilities occurring in work area. Notify local utility companies to terminate existing services to the site as necessary. Terminate those utilities not terminated by the utility company. Remove all existing utilities and portions of underground drain lines as indicated on the drawings, and terminate in a manner conforming to the nationally (or local jurisdiction) recognized code covering the specific utility and satisfactory to the Construction Manager. Mark the live end of the utility after it has been disconnected to avoid damage during demolition. Perform no mechanically operated excavation within 4 feet of the live utility. Hand dig as

necessary to expose the utility for disconnection.

- D. Proceed with demolition in a systematic manner from the top of the structure to the ground. Remove items (see item A above) to be salvaged (which could not be removed prior to demolition) as soon as possible after initiation of building demolition. No demolition activity is to be performed when personnel are working inside buildings. Stage cranes and breaker panels on clean plastic in a location as shown on the drawings. Cover electrical items with waterproof tarp and secure.
- E. Do not overload existing roof or structures.
- F. Demolish structures to natural grade, unless otherwise indicated on Drawings.
- G. Completely demolish and remove and crush all slabs, foundations, underground structures, etc. This work will require removal of structures to below natural grade. (Note: A machine foundation is present inside the Richardson Metals Building. This machine foundation is approximately 5 feet thick by 10 feet wide by 20 feet long).
- H. Remove and Clean Piling. A portion of the former Frontier Hardchrome building is constructed on piling. Remove all piling by complete extraction. Do not break piling; if broken, all pieces must be removed by Contractor. Twenty piling are estimated; depth of 25 feet. Remove gross soil from piling and clean with a steam cleaner. Piling shall be cleaned within the footprint of the former FHC building to avoid spread of contamination. Stockpile decontaminated piling on plastic in the clean area and cover. Sampling of piling for disposal will be performed by others. Contractor shall dispose/recycle piling accordingly after sample results are received from the laboratory (approximately 3 weeks after sampling). Contractor shall assume piling are non-hazardous.
- I. Demolish non-contaminated asphalt and concrete located on the site designated for removal. Remove gross soil from asphalt and concrete. Remove remaining adhering soil with a steam cleaner prior to taking offsite for disposal/recycle. Remove soil from concrete within the footprint of the former FHC building.
- J. Demolish contaminated concrete and cinderblock (approximately 75 in-place cubic yards) located on the site designated for removal. Remove gross soil from concrete prior to transporting offsite for disposal as hazardous waste. Keep contaminated and non-contaminated concrete segregated from one another.
- K. Contractor shall perform demolition and material staging in a manner that prevents non-contaminated debris from contacting contaminated soil. All areas within the site exclusion area shall be considered to have contaminated soil. Contractor shall stage all

non-contaminated demolition material on existing non-contaminated structures (building floor slabs, etc.), or on other areas where the Contractor has provided a barrier to isolate contaminated soil from debris and as approved by the Construction Manager. Contractor's approach for preventing cross-contamination shall be discussed in the Contractor's Work Plan.

- L. Contractor shall give consideration to using the floor slab of the Frontier Hardchrome Building, the clean concrete slab and/or the Richardson Metals Building floor slab for staging materials to prevent contact with contaminated soil.

3.05 DISPOSAL/RECYCLE

- A. Removal all materials and debris from the site. Dispose or recycle accordingly.

3.06 ON-SITE STOCKPILE

- A. Location of on-site stockpile shall be shown in the Contractor Work Plan, and/or as directed by the Construction Manger.

END OF SECTION

SECTION 02200
EARTHWORK

PART 1-GENERAL

1.01 SUMMARY

- A. Excavate four test pits in selected locations shown on the drawings. Purpose of test pits is so Construction Manager can identify type and quantity of buried debris. Replace spoils into test pits and compact.
- B. Grade or level site after both Phase 1 and Phase 2 work where demolition activities disturbed the soil.

1.02 REFERENCE STANDARDS

- A. Code of Federal Regulations
 - 1. 29 CFR 1926.650 - .652 - Excavations
- B. Washington State Regulations
 - 1. WAC 296-155 Part N – Excavations, Trenching and Shoring.

PART 2-PRODUCTS

NOT USED

PART 3-EXECUTION

3.01 TEST PIT EXCAVATION

- A. Contractor shall excavate approximately 4 test pits in locations shown on the drawings. Location and number of test pits may be changed by the Construction Manager.

- B. Contractor shall cover the ground with plastic to prevent excavation spoils from contacting surface soil. The area covered with plastic shall be expanded as necessary during excavation to ensure spoils do not contact surface soil. Plastic may be reused from one excavation location to another.
- C. Test pits shall be excavated to a depth of approximately 15 feet as directed by the Construction Manager. The size of the excavation shall be only what is necessary to attain the desired depth unless directed otherwise by the Construction Manager. As soil is excavated, drain water from soil into excavation prior to placing soil onto plastic. Soil shall be placed no closer than 4 feet from excavations edge. Drain any water accumulation on plastic into excavation.
- D. Excavate soil in a manner that prevent cave-ins. Slope as necessary. Keep all personnel away from excavation area. Construction Manager will observe excavation and make note of materials and debris excavated. Construction Manager may also request visual descriptions of materials in excavation from equipment operator. No personnel are to enter excavation under any circumstances.
- E. Upon completion of the excavation and as directed by the Construction Manager, place soil and debris back into excavation in 2 foot lifts. Compact with bucket of excavator after each lift until firm.
- F. Excavations are to be filled immediately after appropriate information is recorded by the Construction Manager. Under no circumstances shall excavations be left open unsupervised or be left open overnight. All excavations shall be backfilled as soon as possible.
- G. After all excavations are complete, remove soil from plastic and dispose plastic accordingly.

3.02 SITE LEVELING

- A. After structure demolition work (Phase 1) is complete, level soil in the area affected by demolition activities. Level area where test pit excavation occurred.
- B. After foundation and piling removal work (Phase 2) is complete, level soil in the area affected by demolition activities. Roll flat. Site shall be leveled such that it does not drain towards Cassidy Manufacturing's Facility. Apply water as necessary to obtain consolidation. Water shall not applied in quantites that generate runoff.
- C. Apply dust fixative over disturbed area. Dust fixative shall be applied after Phase 2

foundation and piling removal work. Dust suppressant shall be an acrylic polymer (manufactured by America West Dust Control [Ph. 1-888-547-5475] or equivalent).

END OF SECTION

SECTION 02300
OFF-SITE TRANSPORTATION

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. The Contractor shall include in the Contractor's Work Plan a plan for the transportation of contaminated and non-contaminated debris. The plan is to contain routing information, type and size of vehicles to be used, material used to cover trucks, the name and location of disposal facilities, etc.
- B. The Contractor shall utilize appropriate vehicles and operating practices to prevent spillage from occurring enroute to the disposal/recycle facility.
- C. The Contractor shall originate and maintain the waste shipment records/manifests required by the Federal Resource Conservation and Recovery Act (PL 94-580), the State of Washington, as required by any other state along the transport route, and the state where the treatment/disposal facility is located. These records/manifests shall be maintained for all hazardous and non-hazardous materials.
- D. The Contractor shall coordinate the hauling with site work schedules and disposal facility schedule.

1.02 REFERENCE STANDARDS

- A. Code of Federal Regulations
 - 1. 40 CFR 112-SPCC
 - 2. 49 CFR 171 - 179 - Packaging, marking labeling, and shipping of Hazardous Materials
- B. Washington State Regulations
 - 1. WAC 173-303. Washington Dangerous Waste Regulations

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 LOADING

- A. Trucks hauling contaminated and non-contaminated debris off-site shall be loaded in the non-contaminated areas of the site, preferably on the "Clean Staging Area". Other loading areas desired by the Contractor will require approval of the Construction Manager and may require ground cover or engineering controls such as barriers to delineate contaminated and non-contaminated areas. Contractor shall also coordinate use of loading areas other than the "Clean Staging Area" with the City and neighboring businesses to avoid blocking streets and business entrances.
- B. The Contractor shall furnish, install, and maintain any temporary loading facilities required for completion of waste removal activities. Dust shall be kept to a minimum during loading of material into trucks.
- C. The Contractor shall provide the equipment, personnel, and facilities necessary to move and load waste materials designated for off-site transport. Vehicles used for hauling contaminated materials shall be decontaminated before first use, prior to hauling any material, and after last use to prevent cross-contamination of materials.
- D. The Contractor shall ensure that all operations for loading and hauling of contaminated wastes are in compliance with the appropriate local, Washington State Department of Transportation, Federal DOT regulations, and applicable RCRA requirements.
- E. All vehicles hauling bulk wastes from the site shall be inspected by the Contractor prior to leaving the site. No vehicle that is dripping or leaking any quantity of material shall be allowed to leave the site.
- F. The Contractor shall periodically inspect local roads used by the vehicles to ensure that no leakage or damage to the roads has occurred. Local roads shall be maintained in their original condition throughout this project.

3.02 HAULING

- A. The Contractor shall implement a hauling or transport schedule which allows for removal of the waste at a rate compatible with staging space limitations and time restrictions.

- B. The Contractor shall obtain manifest forms, obtain waste code numbers, and complete the waste shipment manifest records as required by the appropriate regulatory agencies for verifying the waste type (Code No.) and quantity of each load transported off-site. The EPA or their representative shall sign the manifest forms as the generator. Only the EPA's designated official or alternate can sign the manifest. Contaminated waste and debris shall be measured in units of weight. Two (2) copies of each manifest will be sent to the Construction Manager before the shipment leaves the site and within two (2) business days after notification of receipt at the disposal facility. Any manifest discrepancies shall be reported immediately to the Construction Manager and shall be resolved by the Contractor.
- C. The Contractor shall not transport waste from the site to an intermediate waste storage facility located closer than or enroute to the facility used for final treatment/disposal of waste.
- D. The Contractor shall coordinate vehicle inspection and recording of quantities leaving the site with the Construction Manager. These quantities shall be verified with recorded quantities at the disposal facility.
- E. The Contractor shall remedy situations involving waste spilled in transit; this action shall be accomplished at no additional project cost.
- F. The Contractor shall minimize the tracking of dust, dirt, or mud from the site, and shall perform road cleaning, if necessary, as determined by the Washington Department of Transportation, the Construction Manager, or local officials at no additional project cost.

END OF SECTION

SECTION 02400
OFF-SITE DISPOSAL

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. The work involves off-site disposal of hazardous and non-hazardous materials.
- B. The Contractor shall coordinate the schedule for truck and waste deliveries at the off-site disposal facilities to meet the approved project schedule and for compatibility with temporary staging limitations on-site and the availability of equipment or personnel for materials handling operations.
- C. The EPA's Off-site Policy for disposal of any materials from a Superfund Site must be met. Submit name, location, telephone number, and EPA ID number for each off-site disposal facility to be used. Submit information with bid, and again, 7 days after Notice to Proceed. If changes to the disposal facilities are desired, submit the information above, at least 7 days prior to the date that approval of the new facility is needed.

1.02 REFERENCE STANDARDS

- A. Code of Federal Regulations
 - 1. 40 CFR 268 - Hazardous Waste Disposal
 - 2. 40 CFR 112 - SPCC
 - 3. 49 CFR 171-179 - Packaging, marking labeling, and shipping of Hazardous Materials
- B. Washington State Regulations
 - 1. WAC 173-303 - Washington Dangerous Waste Regulations

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 OFF-SITE DISPOSAL

- A. The Contractor shall use only EPA approved off-site disposal facilities.
- B. The Contractor shall be responsible for ensuring:
 - 1. Acceptance of the specific waste at an approved off-site treatment or disposal facility.
 - 2. That the facility is properly permitted according to applicable Federal, state, and local regulations to accept the stated wastes.
 - 3. That the facility provides the stated treatment or disposal services.
- C. The Construction Manager and EPA reserve the right to contact and to visit disposal facilities and regulatory agencies to verify the disposal agreement and acceptability of the facilities.
- D. Contractor shall select a primary waste disposal facility and an alternate disposal facility for each waste type. Contractor's bid shall include costs for disposal at the primary facility and alternate pricing for use of the alternate facility.
- E. In the event that the identified and approved facility ceases to accept the stated waste materials or the facility ceases operations, the Contractor shall use the alternate approved and permitted facility for accepting the waste materials. The Contractor shall make the necessary arrangements to utilize the alternate facility and shall obtain the Construction Manager's approval for the alternate facility in the same manner as for the original facility.
- F. The Contractor will coordinate and comply with all requirements established by the disposal facilities (i.e., size, weight, volume, extent, etc.)

3.02 RECORDKEEPING

- A. The Contractor shall provide to the Construction Manager written documentation and records verifying receipt and weights of each load at the disposal facility and verification of proper disposal.

- B. If notification of receipt of any waste shipment is not received by the Contractor within two (2) weeks of departure of the waste from the site, the Contractor shall immediately notify the Construction Manager and contact the disposal facility to determine the status of the shipment and resolve the discrepancy.

END OF SECTION