

20200410 - MUNICIPAL SOLID WASTER TRANSFER STATION UPGRADES

BRUNSWICK COUNTY, NORTH CAROLINA

APRIL 2020

SPECIFICATIONS

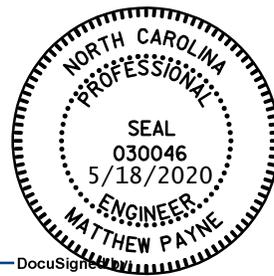
ADDENDUM NO. 1

MAY 15, 2020

CORRECTED MAY 18, 2020
REMOVAL OF INCORRECT GENERAL REQUIREMENTS SECTION. ORIGINAL
GENERAL REQUIREMENTS REMAIN UNCHANGE.

THIS ADDENDUM REPLACES EXISTING SECTIONS.

SEAL



DocuSign
Matthew Payne
E7C3056295FF484...

Prepared By:
Dewberry
2610 Wycliff Road
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Raleigh, NC 27607
(919) 636-6322
NCBELS #F-0929

ADVERTISEMENT FOR BIDS
BRUNSWICK COUNTY

20200410 - MUNICIPAL SOLID WASTE TRANSFER STATION
UPGRADES

Pursuant to the General Statutes of North Carolina (143-129 et. seq.), Brunswick County is soliciting bids for repairs to the Brunswick County Municipal Solid Waste Transfer Station located at 172 Landfill Road NE, Bolivia NC 28422. Bids must be received by Brunswick County's designee, Dewberry Engineers Inc. ("Dewberry"), located at 2610 Wycliff Rd., Suite 410, Raleigh NC 27607 by **2:00 PM**, local time on **Thursday, May 21, 2020**. **The bids will be for the furnishing of all labor and material as detailed in the technical specifications and construction drawings and all equipment required for the removal and replacement of the transfer station steel hopper assembly, approximately 8000 square feet of removal and replacement of concrete floor, selective demolition and replacement of metal building members and all other related work as shown on the Contract Documents, as more fully set forth herein. Any changes to the specifications or scope of work or clarifications to the bidding documents will be made in the form of an Addendum and will be supplied to all prospective bidders.**

Each bid must be made on the blank forms provided with the bound copies of the Contract Documents and must be addressed to Mr. Amir Hadjimiry, c/o Dewberry, 2610 Wycliff Rd., Suite 410, Raleigh NC 27607. Each bid must be sealed and clearly marked on the outside "20200410-MUNICIPAL SOLID WASTE TRANSFER STATION UPGRADES", with the name, address and license number of the bidder. Sealed bids will be opened on Thursday, May 21, 2020 at 2:00 pm within the Dewberry office located at 2610 Wycliff Rd., Suite 410, Raleigh NC 27607 and read aloud.

Neither Brunswick County nor Dewberry will be responsible for the failure of any mail or delivery service to deliver a bid. Regardless of the manner of submission, bids received after the aforementioned date and time or bids not submitted at the correct location or in the designated manner will not be accepted.

Contract Documents, including complete drawings and specifications, may be obtained by electronic copy in PDF form by contacting Mr. Amir Hadjimiry by e-mail ahadjimiry@dewberry.com or contacting by phone to receive electronic copy at (984) 255-7047. There will be no charge associated with obtaining electronic copy of the Contract Documents. Dewberry will require a **24-hour notice** prior to delivery of Contract Documents. Contract Documents will be available on April 29, 2020.

No consideration will be given to any request for Plans and Specifications two (2) days prior to the date for receiving bids.

All Bidders questions and/or clarifications must be submitted in writing to Dewberry Engineers Inc., 2610 Wycliff Road, Suite 410, Raleigh, NC 27607 no later than 5:00 PM, local time on **Friday, May 15, 2020**. Bidders questions and/or clarifications received **after** this date will not receive a response. If warranted Bidders questions and/or clarifications may be answered by Addenda.

All bids will be received as **Single Prime**.

**ATTACHMENT A
 BID SCHEDULE
 FOR
 BRUNSWICK COUNTY MUNICIPAL SOLID WASTE TRANSFER STATION REPAIRS**

The Work includes, but is not limited to, the construction of the removal and replacement of the structural steel hopper, 8000 square feet of concrete slab demolition and replacement, selective demolition and replacement of building structural components and associated appurtenances implied in the Specifications and as shown on the Drawings. **The total base bid price for the Brunswick County Municipal Solid Waste Transfer Station Repairs shall include all work described or implied in the Specifications and shown on the Drawings.**

<u>Line</u>	<u>Description</u>	<u>Pay Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
<u>General</u>					
1	Mobilization (Limited to 1.5% Total Bid)	LS	1		
2	Clearing and Grubbing (31 10 00)	LS	1		
3	Silt Fence (31 32 11)	LF	40		
4	Silt Fence Outlet (31 32 11)	EA	1		
5	Maintenance of Erosion Control Devices (31 32 11)	LS	1		
6	Temporary Safety Barrier (015000)	LF	80		
<u>Structure</u>					
7	Hydro-demolition (021420)	SF	8000		
8	Furnish Cast-in-Place Concrete 5,000 psi (033000)	CY	115		
9	Remove Existing Concrete Barrier (024119)	LF	60		
10	Cast-in-place Concrete Barrier (033000)	LF	120		
11	Selective Demolition of Building (024119)	LS	1		
12	Cast-in-place Concrete (Column Encasement) (033000)	CY	1		
13	Structural Steel (Misc. Metal and Hopper Assembly) (051200)	LB	17,116		
14	Cold-Formed Metal Framing (054000)	LB	1,527		
15	Aluminum Siding (074616)	SF	2,600		
16	Electrical Relocation (260529)	LS	1		
17	Excavation (312000)	CY	5		
18	Structural Fill (312000)	CY	35		

**ATTACHMENT A
 BID SCHEDULE
 FOR
 BRUNSWICK COUNTY MUNICIPAL SOLID WASTE TRANSFER STATION REPAIRS**

Total Base Bid Price for the Brunswick County Municipal Solid Waste Transfer Station Repairs = lines 1-19

Dollars(\$)

 (use words) (use numerals)

BID ALTERNATE – STEEL WORK ONLY: The total bid price for the Brunswick County Municipal Solid Waste Transfer Station Repairs Bid Alternate – STEEL WORK ONLY shall include the removal and replacement of the structural steel hopper and concrete removal and replacement necessary as shown on plan sheets S-6 and S-7.

<u>Line</u>	<u>Description</u>	<u>Pay Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
<u>Structure</u>					
19	Concrete Removal (024119)	CY	17		
20	Furnish and Place Cast-in-Place Concrete 5,000 psi (033000)	CY	17		
21	Selective Demolition of Building (024119)	LS	1		
22	Cast-in-place Concrete (Column Encasement) (033000)	CY	1		
23	Structural Steel (Misc. Metal and Hopper Assembly) (051200)	LB	17,116		
24	Cold-Formed Metal Framing (054000)	LB	1,527		
25	Aluminum Siding (074616)	SF	1,500		
26	Electrical Relocation (260529)	LS	1		
27	Cast-in-place Concrete Barrier (033000)	LF	60		

BID ALTERNATE – STEEL WORK ONLY Bid Price for the Brunswick County Municipal Solid Waste Transfer Station Repairs = lines 19-27

Dollars(\$)

 (use words) (use numerals)

**ATTACHMENT A
 BID SCHEDULE
 FOR
 BRUNSWICK COUNTY MUNICIPAL SOLID WASTE TRANSFER STATION REPAIRS**

BID ALTERNATE – CONCRETE FLOOR WORK ONLY: The total bid price for the Brunswick County Municipal Solid Waste Transfer Station Repairs Bid Alternate – **CONCRETE FLOOR WORK ONLY** shall include the 8000 square feet of concrete slab demolition and replacement, selective demolition and replacement of building structural components and associated appurtenances implied in the Specifications and as shown on the Drawings.

<u>Line</u>	<u>Description</u>	<u>Pay Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
<u>Structure</u>					
28	Hydro-demolition (021420)	SF	8000		
29	Furnish Cast-in-Place Concrete 5,000 psi (033000)	CY	115		
30	Remove Existing Concrete Barrier (024119)	LF	60		
31	Cast-in-place Concrete Barrier (033000)	LF	120		
32	Selective Demolition of Building (024119)	LS	1		
33	Cast-in-place Concrete (Column Encasement) (033000)	CY	1		
34	Structural Steel (Misc. Metal and Hopper Assembly) (051200)	LB	17,116		
35	Cold-Formed Metal Framing (054000)	LB	1,527		
36	Aluminum Siding (074616)	SF	1,100		

BID ALTERNATE – CONCRETE FLOOR WORK ONLY Bid Price for the Brunswick County Municipal Solid Waste Transfer Station Repairs = lines 28 - 36

_____ Dollars(\$)
 (use words) _____ (use numerals)

General Contractor: _____ License Number _____

**ATTACHMENT A
 BID SCHEDULE
 FOR
 BRUNSWICK COUNTY MUNICIPAL SOLID WASTE TRANSFER STATION REPAIRS**

BID ADD ITEM – The total bid price for the Brunswick County Municipal Solid Waste Transfer Station Upgrades may include additional Metal Siding Repairs, specifically gutters, downspouts, and miscellaneous panels not to exceed 500 square feet.

<u>Line</u>	<u>Description</u>	<u>Pay Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total</u>
<u>Structure</u>					
37	Miscellaneous Metal Siding Repairs	LS	1		

BID ADD ITEM –for the Brunswick County Municipal Solid Waste Transfer Station Repairs = lines 37

_____ Dollars(\$)
 (use words) _____ (use numerals)

General Contractor: _____ License Number _____

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Phased construction.
4. Work by Owner.
5. Work under separate contracts.
6. Future work.
7. Purchase contracts.
8. Owner-furnished products.
9. Contractor-furnished, Owner-installed products.
10. Access to site.
11. Coordination with occupants.
12. Work restrictions.
13. Specification and Drawing conventions.
14. Miscellaneous provisions.

B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 PROJECT INFORMATION

A. Project Identification: Brunswick County Municipal Solid Waste Transfer Station Repairs

1. Project Location: 172 Land Fill Rd. Bolivia NC 28422.

B. Owner: Brunswick County Operation Services.

C. Engineer: Dewberry Engineers, Inc., 2610 Wycliff Rd., Suite 410, Raleigh, NC 27607. Project Manager Amir Hadjimiry, PE, 984-255-7047.

D. Contractor: **<Insert name and contact information for Contractor>** has been engaged as Contractor for this Project.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the following:

1. Hydro-demolition of existing transfer station reinforced concrete slab a minimum of 2 inches deep on the approach slab and 4 inches minimum on the tipping floor within the building. Demolition of existing cast-in-place reinforced concrete barrier and bollards within the building. Selective demolition of defective building members to be removed and replaced, or removed entirely as shown in the contract plans. Remove and replace hopper lip assembly at southern end of transfer station tipping floor. Cast-in-place concrete overlay of approach slab and transfer station tipping slab from 2 inches deep up to 12 inches deep. Siding replacement, column anchor tightening, minor earthwork to repair erosion and other Work indicated in the Contract Documents.

B. Type of Contract:

1. Project will be constructed under a single prime contract.

1.5 PHASED CONSTRUCTION

A. The Work shall be conducted in two phases, with each phase substantially complete as indicated.

1. Phase 1: Contractor shall install temporary barrier to designate and protect working area for this phase of work. Demolition of existing reinforced concrete barrier and removal of hopper lip assembly within the designated work area. Hydro-demolition of existing approach and tipping floor concrete slab. Clean and prepare slab for cast-in-place concrete overlay. Concrete shall cure for 10 days minimum. Install concrete barrier and cure for 10 days minimum. Concrete barrier and slab may be poured at same time at the discretion of the Contractor. Drill anchor holes for hopper lip assembly. Install new hopper lip assembly or provide temporary hopper lip construction.
2. Phase 2: The remaining Work shall be substantially complete and ready for occupancy at time of Substantial Completion for the Work.

B. Before commencing Work of each phase, submit an updated copy of Contractor's construction schedule showing the sequence, commencement and completion dates for all phases of the Work.

C. Should Contractor be unable to complete all items of work within the time frame designated, Contractor shall prepare a work schedule and submit for approval by the Owner items to be completed, dates required to complete work, and working hours for work to be completed.

1.6 WORK BY OWNER

A. General: Cooperate fully with Owner so work may be carried out smoothly, without interfering with or delaying work under this Contract or work by Owner. Coordinate the Work of this Contract with work performed by Owner.

1.7 ACCESS TO SITE

- A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
- B. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.
- C. Condition of Existing Grounds: Maintain portions of existing grounds, landscaping, and hardscaping affected by construction operations throughout construction period. Repair damage caused by construction operations.

1.8 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy site and building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.
 - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 - 2. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.
- B. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed portions of the Work, prior to Substantial Completion of the Work, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.
 - 1. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of Work.

1.9 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 6 a.m. to 7 p.m., Monday through Friday, unless otherwise indicated.
 - 1. Weekend Hours: 6 a.m. to 7 p.m.

2. Extended Work Hours: Contractor may submit plan for extended work hours in order to complete work within the prescribed contract schedule. This may include night work. Submit working hours plan to Owner for approval.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
1. Notify Owner not less than two days in advance of proposed utility interruptions.
 2. Obtain Owner's written permission before proceeding with utility interruptions.
- D. Restricted Substances: Use of tobacco products and other controlled substances on Project site is not permitted.
- E. Employee Identification: Provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.

1.10 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard.
 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.

1.3 DEFINITIONS

- A. Unit price is a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.
- B. Lump Sum price includes all materials, equipment, or services, or a portion of the Work necessary to complete the item or work and no additional compensation shall be provided.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Unit Price No. 1: Mobilization will be paid as a contract lump sum price.
 - 1. Includes all work necessary for the preparation and operations to mobilize personnel, materials and equipment to the project site.
 - 2. Unit price will be paid over the first two partial payment estimates.
- B. Unit Price No. 2: Clearing and Grubbing will be paid as a contract lump sum price.
 - 1. Includes all work necessary to complete the excavation and fill operations described in the contract plans.
 - 2. Unit price will be paid as a percentage of the work completed.
- C. Unit Price No. 3: Silt Fence will be paid as a contract unit price per linear foot installed.
 - 1. Furnish all material, construct, maintain and remove temporary silt fence at locations that require surface drainage to be filtered.
 - 2. Repairs to fence due to carelessness or neglect on the part of the Contractor will be at no cost to the Owner.
- D. Unit Price No. 4: Silt Fence Outlet will be paid as a contract unit price per each.
 - 1. Furnish all material, construct, maintain and remove silt fence outlet at termination of temporary silt fence.
 - 2. Repairs to fence due to carelessness or neglect on the part of the Contractor will be at no cost to the Owner.
- E. Unit Price No. 5: Maintenance of Erosion Control Devices shall be paid as a contract lump sum price not to exceed \$2,500.00 USD.
 - 1. Upon a qualified storm event, furnish all material, construction, to maintain erosion control devices on the project site to the as installed condition.
 - 2. Contractor shall submit documentation to substantiate qualified storm event and documentation of personnel and equipment used to maintain erosion control devices.
 - 3. Repairs to fence due to carelessness or neglect on the part of the Contractor will be at no cost to the Owner.
- F. Unit Price No. 6: Temporary Safety Barrier shall be paid as contract unite price per linear foot installed.
 - 1. Furnish, install, secure, maintain, remove and reset temporary concrete safety barrier.
 - 2. Unit price shall include all moves in all phases of work.
 - 3. Repair and replacement of temporary concrete safety barrier for the duration of the project will be performed at no additional cost to the Owner.
- G. Unit Price No. 7: Hydro-demolition shall be paid as a contract unit price per square feet of concrete slab demolished.
 - 1. Demolish, remove and dispose of existing concrete slab up to a depth of 12 inches as indicated in the contract documents.

2. Removal will be measured by the actual surface measurement of concrete slab before it is removed.
 3. Includes all costs associated with removal of materials upon completion of demolition.
- H. Unit Price No. 8: Furnish Cast-In-Place Concrete 5,000 psi shall be paid for as a contract unit price per cubic yard of concrete installed.
1. Furnish cast-in-place concrete 5,000 psi will be measured and paid as the number of cubic yards of concrete incorporated into the completed and accepted structure.
 2. The number of cubic yards of concrete is computed from the dimensions shown in the plans or from revised dimensions authorized by the Engineer.
 3. Work shall include concrete tipping floor, approach slab, concrete flume, and all other cast-in-place concrete work not herein defined.
- I. Unit Price No. 9: Remove Existing Concrete Barrier shall be paid for as a contract unit price per linear feet.
1. Removal will be measured by the actual horizontal length of existing concrete barrier before it is removed. Unit price shall include removal of existing bollards within the building.
 2. Includes all costs associated with removal of materials upon completion of demolition.
- J. Unit Price No. 10: Cast-in-Place Concrete Barrier shall be paid for as a contract unit price per linear foot.
1. Concrete barrier will be measured and paid for as the number of linear feet of concrete barrier provided in the plans.
 2. Unit price includes all formwork, reinforcement, labor and materials required to complete this work.
- K. Unit Price No. 11: Selective Demolition of Building shall be paid for as a contract lump sum price.
1. Includes all work necessary for the personnel, materials and equipment required for the removal of components and structures indicated on the contract documents.
 2. Lump sum will be paid based on the completion of demolished items per schedule below:
 - a. North Elevation Siding and Framing Removal - 50%
 - b. Miscellaneous solid rods, girts, siding and braces – 50%
 3. Includes all costs associated with removal of materials upon completion of demolition.
 4. Owner not responsible for costs incurred due to damage and necessary repairs of existing building by the Contractor during the demolition.
- L. Unit Price No. 12: Cast-in-Place Concrete (Column Encasement) shall be paid for as a contract unit price per cubic yard of concrete.
1. Column encasement concrete shall be measured and paid for based on the contract plan dimensions unless revised by the Engineer.
 2. Includes all formwork, reinforcement, labor and materials required to complete this work.
- M. Unit Price No. 13: Structural Steel (Misc. Metal and Hopper Lip Assembly) shall be paid as a contract unit price of pounds of steel.
1. Structural steel includes steel plate, solid rods, structural steel shapes and associated fasteners necessary to complete the work as described in the contract documents.
 2. Structural steel includes removal, assembly, fabrication, inspections, delivery and installation.

3. Contractor shall provide schedule of structural material to be paid for and items shall be paid upon installation and acceptance by the Engineer.
- N. Unit Price No. 14: Cold Formed Metal Framing shall be paid as a contract unit price per pound.
1. Cold formed metal framing includes all work necessary for the delivery and installation of cold formed metal framing as indicated on the plans.
 2. Contractor shall provide schedule of material to be paid for and items shall be paid upon installation and acceptance by the Engineer.
- O. Unit Price No. 15: Aluminum Siding shall be paid for as a contract unit price per square foot.
1. Includes removal and replacement of aluminum siding as indicated in the contract documents.
 2. Measurement shall be made by surface area of aluminum siding installed, measured on site and verified by the Engineer.
- P. Unit Price No. 16: Electrical Relocation shall be paid for as a contract lump sum price.
1. Includes all work necessary to remove and relocate electrical service from north elevation siding and framing and placed on structure to remain on inside of eastern elevation framing.
 2. Unit price shall be paid upon acceptance by the Engineer.
- Q. Unit Price No. 17: Excavation shall be paid for as a contract unit price per cubic yard not to exceed 5 cubic yards.
1. Includes all work necessary to excavate and provide graded ground surface to repair erosion on the eastern elevation of the building per the contract documents.
 2. Unit price shall be paid per cubic yard excavated up to 5 cubic yards of material. Additional excavation shall require approval by the Engineer prior to beginning work.
- R. Unit Price No. 18: Structural Fill shall be paid for as a contract unit price per cubic yard.
1. Includes all work and material required per the contract documents to place and grade structural fill over the existing building foundation. Includes compaction testing to be performed by a third party consultant.
 2. Unit price shall be paid for by cubic yards of structural fill delivered and placed per the contract documents.
- S. Measurement shall be made by material tickets delivered to the site, confirmed and accepted by the Engineer. Unit Price Nos. 19 through 36 have been defined previously and do not require additional definition.
- T. Unit Price No. 37: Miscellaneous Metal Siding Repairs bid add item shall be paid for as contract lump sum price. Contractor shall provide materials and labor to repair gutter and downspouts for the existing structure as well as up to 500 square feet of additional metal siding panels as instructed by the Owner/Engineer.

END OF SECTION 012200

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Steel Work Only.

1. Bid alternate includes only the work necessary to replace the existing structural steel hopper assembly, select demolition of concrete, metal siding and miscellaneous steel repairs through the building.
2. Alternate bid price shall include General Items 1-6.
3. The bid price for this alternate is for compensation of the items 1-6 and 19-27 as shown on Bid Form A.

B. Alternate No. 2: Concrete Work Only.

1. Bid alternate includes only the work necessary to replace the existing concrete floor, including demolition, placement of concrete, and miscellaneous repairs not associated with the structural steel hopper.
2. Alternate bid price shall include General Items 1-6.
3. The bid price for this alternate is for compensation of the items 1-6 and 28-36 as shown on Bid Form A.

C. Bid Add: Miscellaneous Metal Siding Repairs

1. Bid add includes a lump sum price for the repair/replacement of building gutters, downspouts and additional metal siding not shown on the contract plans up to 500 square feet. Costs associated with this lump sum shall include all materials and labor necessary to perform the work as instructed by the owner/engineer.
2. Bid price for this item of work is a lump sum price to be paid in addition to the total bid price if accepted by the Owner.

3.2 CONTRACTOR PROPOSED ALTERNATES

A. Alternative construction schedules, fabrications, construction methods, and/or repairs may be proposed by the Contractor and submitted with the Contractor Bid. Contractor shall provide bid in accordance with the provided Bid Form A in order to be considered as a responsive bidder. Owner may evaluate Contractor proposed alternates at the time of Bid, and may use proposed alternatives in the selection of the successful bidder.

B. Contractors may propose alternative demolition of the concrete provided the bid price includes the non-destructive demolition of existing reinforcement or the replacement of existing reinforcement within the existing concrete slab. Owner and Engineer must approve of the alternative concrete removal method prior to acceptance of the proposed demolition method.

END OF SECTION 012300