



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Solicitation

NUMBER

DEFK14000

PAGE

1

ADDRESS CORRESPONDENCE TO ATTENTION OF:

TARA LYLE

304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

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DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

1707 COONSKIN DRIVE

CHARLESTON, WV

25311-1099

304-341-6368

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DATE PRINTED

08/09/2013

BID OPENING DATE:

08/27/2013

BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 2						
SEE ATTACHED PAGES.						
END OF ADDENDUM NO. 2						
0001	1	JB		968-20		
CONSTRUCTION OF LOGAN READINESS CENTER						
***** THIS IS THE END OF RFQ DEFK14000 ***** TOTAL:						

SIGNATURE

TELEPHONE

DATE

TITLE

FEIN

ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

SOLICITATION NUMBER: DEFK14000
Addendum Number: 2

The purpose of this addendum is to modify the solicitation identified as DEFK14000 ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☒ [X] Modify bid opening date and time
- ☐ [] Modify specifications of product or service being sought
- ☒ [X] Attachment of vendor questions and responses
- ☐ [] Attachment of pre-bid sign-in sheet
- ☐ [] Correction of error
- ☒ [X] Other

Description of Modification to Solicitation:

1. The bid opening has been extended from 08/22/2013 to 08/27/2013. The bid opening time remains at 1:30 pm.
2. Revised specifications attached.
3. Responses to vendor questions attached.
4. Revised Bid Forms attached - Section I, II and III.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.



ADDENDUM NO. 2

RE: Logan-Mingo Readiness Center
West Virginia Army National Guard
Logan and Mingo Counties, West Virginia
Architect's Project No. 0612

TO: Prospective Bidders

FROM: ZMM, Inc. Architects And Engineers

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

**ATTACH THIS ADDENDUM TO THE FRONT COVER OF THE PROJECT MANUAL AND
ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED ON THE BID FORM.**

PART 1 - CHANGES TO SPECIFICATIONS

- A. REPLACE Bid Form Parts I, II, and III dated 07/05/13 with replacement Bid Form dated 08/09/13 as attached to this Addendum.
- B. Refer to Attachment 'B' State Change Order Checklist and sample sheets referenced in Paragraph 1.7 in Section 01035 – Modification Procedures.
- C. Section 13916 – Fire Suppression Sprinklers: Make the following revisions:
 - 1. DELETE paragraph 1.4.A in its entirety. See FM Global Loss Data Sheet 3-26 "Fire Protection Water Demand" and Engineering Bulletin 04-12 "Supplement to Data Sheet 3-26" for design requirements, including acceptable applications of sprinklers by type. Both documents are available on-line.
 - 2. Backflow Preventer CLARIFICATION:
 - a. Backflow preventer is required to protect potable water supply from a backflow condition. As per UFC 3-600-01 1 March 2013 par. 3-6.6 it must be installed on the discharge side of the fire pump.
 - 3. Flow Meter: ADD flow meter to fire pump installation per UFC par. 3-6.10.



4. Piping Material CLARIFICATION:
 - a. DELETE all mention of lightwall threadable steel pipe. UFC par. 4-2.4.5 states that "steel piping with wall thickness less than Schedule 40 shall not be threaded."
 - b. Schedule 10 pipe 2-1/2" and larger with mechanical joints is acceptable.
5. Fire Protection Engineer Requirement: As per UFC, a FPPE or a PE as described shall stamp and seal the Drawings.
- D. Section 15985 – Sequence Of Operations: Article 3.27 VAV Box Terminals CLARIFICATION: Occupied/unoccupied status for VAV boxes is determined via interface with lighting occupancy sensors. Interface with sensors by Div 15. See Drawings E1-8,9,10, Keyed Note 3.

PART 2 - CHANGES TO DRAWINGS

- A. Drawing C2-8: DELETE fluorescent lighting fixtures in precast concrete water meter vault shown on Detail 1 this sheet.
- B. Drawing P3-1: ADD to "Enlarged Plumbing Plan Area B" Bell and Gossett Tank Model PTA-42V.
- C. Drawing E1-6: ADD two ground mounted LED floodlights at base of entrance sign illuminating only the front side of sign. Install 1" underground conduit from closest parking lot light pole to entrance sign located on bottom left side of drawing and tie into circuit HA2-5.
 1. Floodlights to be Lithonia D-Series DSXF1 LED 1 A530/40K WFL MVOLT THK DNAXD (aluminum finish) or equal of Lumark Crosstour XTOR LED Series. Refer to Drawing C1-3, item no. 32 for location of sign.

PART 3 - CLARIFICATIONS

- A. Deep Dynamic Compaction (DDC) requirement for the pond bottom can be replaced by 48" of undercut and replacement with soil fill.
- B. Section 01035 – Modification Procedures: REPLACE Paragraph 1.3.C with the following:
- C. 1.3.C Proposal Request and Modification Agreement: Reference AIA Document G709 "Work Changes Proposal Request" and "West Virginia Army National Guard Contract Modification Agreement" (Reference Table of Contents, Contract Forms). Once agreement on scope and price is reached, the A/E will prepare a modification agreement for signature by all parties. Each party has three (3) business days in which to execute the completed modification agreement.



PART 4 – QUESTIONS AND RESPONSES

- A. RFI No. 1: Spec sections 13915 2.1.A.11 Piping Applications mention the use of Schedule 10 piping and Threadable Thinwall piping for the fire sprinkler systems. Past editions of UFC 3-600-01 4-2.3.2 would permit the use of Schedule 10 piping after evaluating the water quality. UFC 3-600-01 4-2.3.2 no longer mentions the use of Schedule 10 piping. Please confirm that Schedule 10 piping can be used as mentioned in 13915 2.3.
- Response: Schedule 10 pipe 2-1/2" and larger with mechanical joints is acceptable. Delete all mention of lightwall threadable steel pipe. UFC par. 4-2.4.5 states that "steel piping with wall thickness less than Schedule 40 shall not be threaded."
- B. RFI No. 2: Spec section 13916 1.4.A.4 Minimum Density for Automatic Sprinkler Piping Design says that the hydraulic design area is to be 3,000 square feet in accordance with UFC 3-600-01 Table 4-1. Please note that it appears that the 2013 edition of UFC 3-600-01 has removed Table 4-1 and UFC 3-600-01 4-2.3.5 Hydraulic Calculations require that a design area of 1,500 square feet be calculated. Please confirm whether the hydraulic design area is to be 1,500 per 2013 edition of UFC or spec section 13916.
- Response: Revise hydraulic design criteria in accordance with FM Global Loss Data Sheet 3-26 "Fire Protection Water Demand" and Engineering Bulletin 04-12 "Supplement to Data Sheet 3-26", as referenced in UFC 3-600-01, for design requirements. Both documents are available online.
- C. RFI No. 3: Confirm that a Reduced Pressure Detector Backflow Preventer is required as per spec section 13917 2.8. The UFC only requires a Reduced Pressure Backflow device if anti-freeze is used within the system. It does not appear that an anti-freeze system will be required anywhere on this project. Confirm that a Reduced Pressure Detector Backflow Preventer is required.
- Response: Backflow preventer is required to protect potable water supply from a backflow condition. As per UFC 3-600-01 1 March 2013 par. 3-6.6 it must be installed on the discharge side of the fire pump.
- D. RFI No. 4: Confirm that a registered Fire Protection Engineer must sign and stamp drawings. The UFC requires FPE stamp but WV does not.
- Response: As per UFC, a FPPE or a PE as described shall stamp and seal the drawings.
- E. RFI No. 5: Spec section 13916 2.10.C.1 mentions the use of Extended Coverage sprinklers. UFC 4-2.3.6 Sprinkler Coverage does not allow sprinkler spacing using Extended Coverage sprinklers. Confirm if Extended Coverage sprinklers can be used.
- Response: See FM Global Loss Data Sheet 3-26 "Fire Protection Water Demand" and Engineering Bulletin 04-12 "Supplement to Data Sheet 3-26", as referenced in UFC 3-600-01, for acceptable applications of extended coverage sprinklers. Both documents are available online.



- F. RFI No. 6: UFC 3-600-01 section 3-6.10 Flow Meter requires a flow meter to be installed in addition to a pump test header. Spec section 13922 Diesel Drive Fire Pump section 2.4 Fire Pump Accessories does not mention installing a Flow Meter. Confirm that a flow meter is required.

1. Response: Add Flow Meter to fire pump installation per UFC par. 3-6.10.

End Of Addendum

Attachments: Bid Form Parts I, II, and III dated 08/07/13 34 pages
Attachment 'B' State Change Order Checklist and sample sheets 11 page

BID FORM

SECTION I – BASE BID AND ALTERNATES

DATED: _____
(Bidder to insert date bid submitted)

SUBMITTED BY: (Name and Address)

WEST VIRGINIA CONTRACTOR LICENSE NUMBER: WV _____

SUBMITTED TO: State of West Virginia

The undersigned, being familiar with local conditions affecting the cost of the work and the contract documents, including Instructions to Bidders, Bid Form, General Conditions, Drawings, and Specifications and any Addenda issued, hereby propose to perform everything required to be performed and to provide and furnish all the labor, materials, tools, expendable equipment and all services necessary to complete in a workmanlike manner all the work required for:

**The Logan-Mingo Readiness Center
West Virginia Army National Guard
Logan-Mingo Counties, West Virginia**

all in accordance with the Drawings and Specifications as prepared by ZMM, Inc. Architects and Engineers, 222 Lee Street West, Charleston, West Virginia 25302, (304) 342-0159.

BASE BID:

For the sum of: _____
_____ (\$ _____).

ALTERNATES:

The Owner may or may not select the deductive alternates.

The contract will be awarded based on the grand total of the Base Bid, the Deductive Alternates if selected, and any Alternate Bid Items. Owner will select Alternate Bid Items in the order presented in the bid documents, and Owner reserves the right to accept or reject the alternate bid(s) if the costs exceed the amount budgeted for the Project. This language supersedes any language contained in the AIA A701 with reference to the acceptance of bid (award).

(‘Provide’ means ‘furnish and install.’ Include in bids below all related coordination and modification requirements associated with the Work of each Alternate.)

Refer to Section 01030 “Alternates” for description of Alternates.

Deduct Alternates:**Deduct Alternate Bid No. 1 – VAV HVAC System in lieu of VRF System****DEDUCT the sum of:**

_____ (\$ _____).

Deduct Alternate Bid No. 2 – Fluorescent Light Fixtures in lieu of LED Light Fixtures**DEDUCT the sum of:**

_____ (\$ _____).

Deduct Alternate Bid No. 3 – Generator**DEDUCT the sum of:**

_____ (\$ _____).

Add Alternates – Federally Funded:**Add Alternate Bid No. 4 – Vehicle Wash Rack and Canopy****ADD the sum of:**

_____ (\$ _____).

Add Alternate Bid No. 5 – Unheated Storage Pre-Engineered Metal Building**ADD the sum of:**

_____ (\$ _____).

Add Alternate Bid No. 6 – Fuel Truck Parking Pad**ADD the sum of:**

_____ (\$ _____).

Add Alternate Bid No. 7 – Lockers**ADD the sum of:**

_____ (\$ _____).

Add Alternate Bid No. 8 – Loading Dock**ADD the sum of:**

_____ (\$ _____).

Add Alternate Bid No. 9 – Loading Ramp**ADD the sum of:**

_____ (\$ _____).

Add Alternate Bid No. 10 – Operable Partitions in Classrooms**ADD the sum of:**

_____ (\$ _____).

Add Alternate Bid No. 11 – Trash Enclosure**ADD the sum of:**

_____ (\$ _____).

Add Alternate Bid No. 12 – Overhead Crane in Maintenance Work Bay**ADD the sum of:**

_____ (\$ _____).

Add Alternates – State Funded:**Add Alternate Bid No. 13 – Security Fencing Upgrade.****ADD the sum of:**

_____ (\$ _____).

If awarded contract on Base Bid and any Alternates, I (we) agree to perform the work including base bid and all alternates to substantial completion (or-beneficial occupancy) in **728** days. The Bidder understands that the Owner may impose liquidated damages in the amount stated in and, in accordance with, the Special Conditions, for each day thereafter, Sundays and holidays included, that the Work remains uncompleted, which sum is agreed upon as the proper measure of liquidated damages which the Owner will sustain per diem by the failure of the Bidder to complete the Work in the stipulated time, and the sum is not to be construed in any sense a penalty. Liquidated damages will be assessed at substantial completion for the base bid and all alternates accepted by the Government.

It is hereby certified that the undersigned is the only person(s) interested in this proposal as principal, and the proposal is made without collusion with any person, firm, or corporation. Bidder hereby agrees to

execute the contract and furnish surety company bonds, in the forms incorporated in the contract documents, in the amount of one hundred (100%) percent of the contract price for performance, including maintenance, and for payment for labor and materials, respectively at the time required by the bidding documents, and to begin work within five (5) days following receipt of Notice to Proceed.

The Bidder certifies that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor.

The Bidder agrees that the Owner reserves the right to reject any or all bids, and to waive any formalities in the bidding. The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 90 days.

The Bidder acknowledges receipt of the following Addenda: (Please list by number and date.)

Bidder guarantees that, if awarded the contract, he will furnish and deliver all materials, tools, equipment, tests, transportation, secure all permits and licenses, and perform all labor, superintendence and all means of construction, pay all fees, except those specifically excluded in the Project Manual and do all incidental work to execute, construct, and finish the work in an expeditious, substantial, and workmanlike manner, in accordance with the contract documents to the complete satisfaction and acceptance of the Owner, for the prices stated.

It is understood that the Owner reserves the right to reject any/or all proposals, or part thereof or items therein, and to waive technicalities as required for the best interests of the Owner. It is further understood that competency and responsibility of bidders will receive consideration before the award of the contract.

The undersigned agrees that the contract documents are incorporated herein by reference and shall be construed to be part thereof, with the same affect as if such were repeated at length herein, or where physically attached hereto. The undersigned further certifies that: (1) this proposal is genuine and is not sham, collusive, or fraudulent; (2) this proposal is not made in the interest or in behalf of any person other than the undersigned; (3) the undersigned has not sought in any manner, by collusion or otherwise, to secure any advantage over any other bidders.

Enclosed herewith is a bid security prepared in accordance with the Instructions to Bidders in the amount of five percent (5%) of the amount of the bid (being not less than 5% of the total of the base bid). We agree that the above stated amount is the proper measure of liquidated damages which the owner will sustain by our failure to execute the contract and to furnish the performance bond in case this proposal is accepted.

SIGNATURE OF BIDDER:

Firm: _____

By: _____

Address: _____

Title: _____

Address: _____

Phone: _____

Address: _____

Fax: _____

END OF SECTION I

SECTION II - BID ITEMS AND UNIT COSTS

In the event that unit quantities stated below differ from quantities required for completion of the Work, unit costs as stated below shall be the basis of adjustments in Contract Sum.

Bid items with the same number must include the same unit price.

NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
Primary Facility Base Bid					
1	Readiness Center	1	LS		
PRIMARY FACILITY BASE BID SUB-TOTAL					
Project Administration/Quality Control Base Bid					
2	Mobilization/Demobilization	1	LS		
3	General Administration	1	LS		
4	Project Quality Control	1	LS		
PROJECT ADMIN/QUALITY CONTROL SUB-TOTAL					
Civil/Site Base Bid					
Site Preparation					
5	WVDOH Encroachment Permit (Allowance)	1	LS	\$5,000.00	\$5,000.00
6	Site Preparation	1	LS		
7	Sediment and Erosion Control	1	LS		
8	Retention Pond	1	LS		
9	Waste Disposal	5	TN		
10	Deep Dynamic Compaction Program	1	LS		
11	Settlement Monitoring Program	1	LS		
Earthwork					
12	Unclassified Excavation	1	LS		
13	Subgrade Preparation	27,089	SY		
14	Soil Drying	200	TN		
15	Soil Conditioning - 12"	500	SY		
16	Over-Excavation	200	SY		
17	Topsoil	5,000	CY		
Roads and Paving					
18	7" Concrete Paving	1,192	SY		
19	Free Draining Base Trench and Piping	2,740	LF		
20	Hardstand Paving	18,745	SY		
21	Concrete Curbing	932	LF		

NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
22	Wheel Stops	165	EA		
23	Signage	1	LS		
24	Gravel Road	775	SY		
25	Gravel Apron	979	LF		
Miscellaneous					
26	Sidewalk	947	SY		
27	Type I Lawn	1	LS		
28	24' Sliding Gate	1	EA		
29	20' Sliding Gate	2	EA		
30	16' Double Swing Gate	2	EA		
31	12' Double Swing Gate	1	EA		
32	8' Double Swing Gate	1	EA		
33	5' Personnel Gate	3	EA		
34	Security Fencing	2,197	LF		
35	40' Flagpole	2	EA		
36	Natural Rock Obstacles	956	LF		
37	Oil/Water Separator	1	EA		
38	Bollards 8"	4	EA		
39	Bollards Removable	6	EA		
Water					
40	4" PVC Water	733	LF		
41	6" PVC Water	1,075	LF		
42	10" PVC Water	735	LF		
43	12" PVC Water	471	LF		
44	PIV	1	EA		
45	Fire Hydrant	3	EA		
46	Water Vault	1	EA		
Sewer					
47	Manholes, Sanitary Sewer	117	VF		
48	Frame and Cover, Sanitary Sewer	17	EA		
49	3" PVC Sanitary Sewer	64	LF		
50	4" PVC Sanitary Sewer	312	LF		
51	6" PVC Sanitary Sewer	195	LF		
52	8" PVC Sanitary Sewer	1,726	LF		
53	8" DIP Sanitary Sewer	100	LF		
54	Cleanout, Sanitary Sewer	6	EA		
Gas					
55	4" Gas Service Line	301	LF		
Storm Drainage					
56	4" PVC Storm	275	LF		
57	6" PVC Storm	660	LF		
58	8" PVC Storm	286	LF		

NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
59	12" PVC Storm	893	LF		
60	15" HPDE Storm	356	LF		
61	18" HDPE Storm	758	LF		
62	24" HDPE Storm	490	LF		
63	30" HDPE Storm	671	LF		
64	Type 1 Ditch	100	LF		
65	Type 2 Ditch	200	LF		
66	Type 3 Ditch	1,056	LF		
67	Type 4 Ditch	2,015	LF		
68	Junction Box	2	EA		
69	Type "B" Drop Inlet	13	EA		
70	Type "G" Drop Inlet	2	EA		
71	12" Yard Drain	6	EA		
72	Drain Basin	15	EA		
73	Concrete Headwall	2	EA		
Power and Communications					
74	Electrical Duct Bank Type 1	22	LF		
75	Electrical Duct Bank Type 2	20	LF		
76	Electrical Duct Bank Type 3	81	LF		
77	Combined Duct Bank Type 1	339	LF		
78	Combined Duct Bank Type 2	80	LF		
79	Communications Duct Bank Type 1	15	LF		
80	Transformer Pad	1	LS		
100	6" Subsurface Drains	500	LF		
CIVIL/SITE BASE BID SUB-TOTAL					

BASE BID TOTAL*	
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*Note: Base Bid Total is the summation of PRIMARY FACILITY BASE BID, PROJECT ADMINISTRATION/QUALITY CONTROL BASE BID, and CIVIL/SITE BASE BID.

Alternate Bid Items					
NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
Deduct Alternates					
Alternate #1 - VAV HVAC System in lieu of VRF System					
81	VAV HVAC System	-1	LS		
Alternate #1 Total					
Alternate #2 - Fluorescent Light Fixtures in lieu of LED Light Fixtures					
82	Fluorescent Light Fixtures	-1	LS		
Alternate #2 Total					
Alternate #3 - Generator					
83	Generator	-1	LS		
Alternate #3 Total					
Add Alternates - Federally Funded					
Alternate #4 - Vehicle Wash Rack and Canopy					
84	Vehicle Wash Rack and Canopy	1	LS		
85	1" PVC Water	293	LF		
38	Bollards 8"	4	EA		
51	6" PVC Sanitary Sewer	317	LF		
20	Hardstand Paving (delete)	-145	SY		
Alternate #4 Total					
Alternate #5 - Unheated Storage Pre-Engineered Metal Building					
86	Pre-Engineered Metal Building	1	LS		
87	Deep Dynamic Compaction for Unheated Storage	1	LS		
18	7" Concrete Paving	187	SY		
57	6" PVC Storm	316	LF		
20	Hardstand Paving (delete)	-560	SY		
34	Security Fencing (delete)	-168	LF		
Alternate #5 Total					
Alternate #6 - Fuel Truck Parking Pad					
88	Fuel Truck Parking Pad	1	LS		
50	4" PVC Sanitary Sewer	39	LF		
20	Hardstand Paving (delete)	-100	SY		
Alternate #6 Total					

Alternate Bid Items, continued					
NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
Alternate #7 - Lockers					
89	Lockers	1	LS		
Alternate #7 Total					
Alternate #8 - Loading Dock					
90	Loading Dock	1	LS		
91	Deep Dynamic Compaction for Loading Dock	1	LS		
92	Retaining Wall	63	LF		
93	Trench Drain and Grate	25	LF		
18	7" Concrete Paving	964	SY		
19	Free Draining Base Trench and Piping	109	LF		
58	8" PVC Storm	115	LF		
20	Hardstand Paving (delete)	-964	SY		
21	Concrete Curbing (delete)	-110	LF		
61	18" HDPE Storm (delete)	-75	LF		
69	Type "B" Drop Inlet (delete)	-1	EA		
Alternate #8 Total					
Alternate #9 - Loading Ramp					
94	Loading Ramp	1	LS		
95	30' Double Swing Gate	1	EA		
20	Hardstand Paving	203	SY		
38	Bollards 8"	1	EA		
58	8" PVC Storm	115	LF		
68	Junction Box	1	EA		
69	Type "B" Drop Inlet	1	EA		
34	Security Fencing (delete)	-30	LF		
Alternate #9 Total					
Alternate #10 - Operable Partitions in Classrooms					
96	Operable Partitions	1	LS		
Alternate #10 Total					
Alternate #11 - Trash Enclosure					
97	Trash Enclosure	1	LS		
38	Bollards 8"	2	EA		
18	7" Concrete Paving (delete)	-24	SY		
Alternate #11 Total					

Alternate Bid Items, continued					
NO.	ITEM	QTY	UNIT	UNIT PRICE (\$)	EXTENDED PRICE (\$)
Alternate #12 - Overhead Crane in Maintenance Work Bay					
98	Overhead Crane	1	LS		
Alternate #12 Total					
Add Alternates - State Funded					
Alternate #13 - Security Fencing Upgrade					
99	Fencing/Gate Upgrade	1	LS		
Alternate #13 Total					

END OF SECTION II

SECTION III – DESCRIPTION OF BID ITEMS

Bid Item 1: Readiness Center**Unit:** Lump Sum (LS)

Description: The item shall consist of any and all material, equipment, and labor for items required by the contract documents to provide a complete and functional Readiness Center building and/or assembly as shown under Base Bid in the Drawings and Specifications. The Readiness Center includes lobbies, corridors, administration space, recruiting and family support space, educational facilities, storage, locker rooms, physical training rooms, mail rooms, drill halls, toilets, janitor closets, as well as mechanical, electrical, and data rooms.

This item shall include any additional items related to Site Construction where a unit cost has not been requested. Additionally, this work shall include site utilities, excavation and backfill to foundation subgrade for utilities and foundations, and grading within five feet of the building perimeter. The work shall include, but is not limited to, all materials, labor, equipment, and incidentals to construct the facility within the terms and conditions of the plans and specifications. This work also includes, but is not limited to: building excavation; backfill; foundation systems; gravel dry beds; up to 40 cubic yards of lean concrete backfill, concrete; masonry; veneer brick; structural steel; metal stud framing; pre-engineered metal trusses; carpentry and wood decking; waterproofing; insulation; roofing; interior and exterior walls; railings; doors; windows; finishes; casework; mechanical systems; electrical systems; fire suppression system; fire alarm; and data systems. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, dated July 3, 2013 as well as any addenda issued during the bidding process. Work shall include, but is not limited to, providing labor, materials, equipment, and incidentals necessary to perform all items of work.

Measurement: Measurement will be based on completion of the work described and accepted by the Contracting Officer Technical Representative (COTR).

Payment: Payment for item will be in accordance with the specifications.

Bid Item 2: Mobilization/Demobilization**Unit:** Lump Sum

Description: This work shall consist of the performance of construction preparatory operations, including the movement of personnel, equipment, and materials to and from the project site; payment of performance bond, guaranty bond, and other insurance premiums; establishment and removal of the contractor's field office and storage facilities, including fenced enclosure of staging area.

Measurement: Measurement will be based on completion of the work described, prorated from lump sum amounts according to the Basis of Payment below.

Payment: Payment for item will be in three installments. The first payment of 50 percent of the lump sum price will be made on the first estimate following partial mobilization including the placement or erection of the Contractor's office and storage facilities and the initiation of construction work. The second payment of 25 percent will be made on the next estimate following completion of substantial mobilization. The remaining 25 percent will be paid upon demobilization and satisfactory restoration of the contractor's staging and work area and final completion of the Project.

Bid Item 3: General Administration**Unit:** Lump Sum

Description: This work shall consist of performing the construction administrative duties associated with managing the construction as stated in Division 1 and throughout the Specifications, providing construction layout, providing temporary utilities for the site and coordination of permanent utility installation and tie-in of site grading and access roads, administration and maintenance of all required permits for the project, including permit fees, and Business and Occupation Taxes.

Measurement: Measurement will be based on completion of the work described, prorated from lump sum amounts according to the Basis of Payment below.

Payment: This item will be paid for at the contract lump sum price, based on percentage of contract completion.

Bid Item 4: Project Quality Control**Unit:** Lump Sum

Description: This work shall consist of establishing and maintaining a Quality Control Program throughout the duration of the project.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: This item will be paid for at the contract lump sum price, based on percentage of completion.

Bid Item 5: WVDOH Encroachment Permit(s) (Allowance)**Unit:** Lump Sum (LS) (Allowance)

Description: This work shall consist of obtaining encroachment permit(s) for the sanitary sewer extension, grading, and stormwater drainage on WVDOH right of ways as shown on the Plans or as required by the WVDOH. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The contractor will not bid on this work, but will be reimbursed the actual permit fee(s). The contractor shall submit an estimate for the permit(s) to the COTR for approval prior to submitting the application(s).

Payment: This item shall be reimbursed by submitting the permit fee(s) receipt(s), based on acceptance of the encroachment(s) by the WVDOH and the COTR.

Bid Item 6: Site Preparation**Unit:** Lump Sum (LS)

Description: This work shall consist of the removal of trees and other vegetation, topsoil stripping and stockpiling, removal of existing utilities, installation of temporary utilities, demolition, temporary safety fence, and clearing and grubbing of all areas disturbed by the Contractor. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the contractor in completing this item.

Payment: Payment shall be made at the contract unit price per lump sum.

Bid Item 7: Sediment and Erosion Control**Unit:** Lump Sum (LS)

Description: This item shall consist of furnishing, installation, maintenance and subsequent removal of necessary storm water structures, best management practices, and other work required to prevent escape of sediment from disturbed areas of project site. Also included is the modification of the existing WV NPDES permit and administrative maintenance of any permits required by the West Virginia Department of Environmental Protection (WVDEP) or other agencies. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the contractor in completing this item.

Payment: Payment for item shall be in three installments. The first payment of 50% of the lump sum price shall be made on the first estimate following issuance of a modification to the existing WV NPDES Construction Stormwater Permit and installation of best management practices required by the approved Stormwater Pollution Prevention Plan. The second payment of 25% shall be made on the next estimate following finish grading and stabilization of all waste and borrow areas. The remaining 25% shall be paid upon termination of the WV NPDES permit by the WVDEP for properly stabilizing the site, demobilization, and final completion of the Project.

Bid Item 8: Retention Pond**Unit:** Lump Sum (LS)

Description: This work shall consist of constructing the retention ponds as shown in the Plans. The work includes excavation, subgrade compaction, concrete, backfill, inlet and outlet structures, pipes, outlet protection, sediment removal and maintenance. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There shall be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price per lump sum.

Bid Item 9: Waste Disposal**Unit:** Ton (TN)

Description: This work shall include, but is not limited to, disposal of rubbish, trash, scrap, and other materials encountered at the site that require disposal at a sanitary landfill. The work includes sorting, loading, hauling, and disposal. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work completed shall be measured in tons as evidenced by weigh tickets from a legally operating sanitary landfill and certified by the contractor to be correct.

Payment: Payment shall be made at the contract unit price per ton.

Bid Item 10: Deep Dynamic Compaction (DDC) Program**Unit:** Lump Sum (LS)

Description: This work shall consist of improving the strength and compressibility characteristics of subsurface soils by providing deep dynamic compaction for the buildings, structures, and pond shown on the plans and as specified in the contract documents. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, engineering support, supervision, and quality control required to complete the work.

Measurement: There shall be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price per lump sum.

Bid Item 11: Settlement Monitoring Program**Unit:** Lump Sum (LS)

Description: This work shall consist of developing and then executing a settlement monitoring program for all areas at the site modified by DDC. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, engineering support, supervision, and quality control required to complete the work.

Measurement: There shall be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price per lump sum.

Bid Item 12: Unclassified Excavation**Unit:** Lump Sum (LS)

Description: This work shall consist of, but is not limited to, unclassified excavation, loading and hauling of excavated material, placement and compaction, and shall include final grading, shaping and contouring of the excavation and fill areas. The terms for earthwork used in the remainder of this Section imply excavation in native materials. The Contractor, with approval of the COTR, shall adjust the final grades as necessary to create a finished project. The Contractor shall excavate to the lines and grades shown on the Plans.

The Contractor shall perform all excavation of every description and of whatever materials encountered to the depths indicated on the Plans. No additional compensation shall be considered for rock excavation or the reduction of large rock and boulders to less than 18" in any dimension. Over-excavation and/or fill not shown on the Plans or specified herein shall be at the Contractor's expense, unless approved by the COTR prior to commencing such work. If unsuitable materials exist below the grades shown on the Plans, this material shall be removed with the prior approval of the COTR and shall be paid per the unit price for "Over-Excavation".

Except at locations where excavation of unsuitable material is required, care shall be taken not to excavate below the depths specified. Final shaping and contouring of the areas shall be performed to the satisfaction of the COTR.

This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There shall be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price per lump sum.

Bid Item 13: Subgrade Preparation

Unit: Square Yard (SY)

Description: This work shall include, but is not limited to, excavation, subgrade compaction, scarification, and recompaction of the top 24 inches of in-place subgrade under structures, building slabs, steps, and pavements in excavated areas. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work. Manipulation of the excavated material to achieve optimum moisture content shall be considered incidental to the work. If additional satisfactory soil fill is required to achieve subgrade elevations after compaction, it shall be considered incidental to the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Material prepared beyond approved limits shall not be included in the measured quantity. Subgrade preparation of other areas, such as walkways and lawn areas, is incidental to earthwork and shall not be paid for by this bid item.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 14: Soil Drying

Unit: Ton (TN)

Description: This work shall include, but is not limited to, quicklime application and mixing of stockpiles of existing satisfactory soils with high moisture content. The required demonstration of proposed techniques is incidental. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work completed shall be measured in tons of quicklime used as evidenced by weigh tickets for bulk loads or delivery slips for packaged materials certified by the contractor to be correct.

Payment: Payment shall be made at the contract unit price per ton.

Bid Item 15: Soil Conditioning – 12"**Unit:** Square Yard (SY)

Description: This work shall include, but is not limited to, scarifying, lime application, mixing, compacting and rolling areas of existing satisfactory soils with high moisture content to a depth of 12" in locations directed by the COTR. The required demonstration of proposed techniques on test pads is incidental. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 16: Over-Excavation**Unit:** Square Yard (SY)

Description: This work shall include, but is not limited to, excavation below subgrade, transportation and disposal of unsuitable materials, placement of geogrid and AASHTO #1 stone, and proof-rolling areas of unsuitable soils in locations directed by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 17: Top Soil**Unit:** Cubic Yard (CY)

Description: This work shall consist of, but is not limited to, furnishing, amending, placing and fine grading imported topsoil in the areas indicated on the plans.

This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The method of measurement for determining the quantity of topsoil will be by multiplying the area topsoiled by an average depth measurement taken in the field. A minimum of one depth measurement per 10,000 sf (100' x 100') will be used to determine the coverage depth.

Payment: This item will be paid for at the contract unit price per cubic yard.

Bid Item 18: Concrete Paving, 7"**Unit:** Square Yard (SY)

Description: This work consists of furnishing and complete installation of Portland cement concrete pavement, reinforcing, joints, sealants, geotextile fabric, and No. 57 aggregate at the areas as shown on the plans. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 19: Free Draining Base Trench and Piping**Unit:** Linear Foot (LF)

Description: This work shall consist of constructing free draining base trenches and outlet pipes in reasonably close conformity with the lines, grades, dimensions, and locations shown on the Plans or established by the COTR. Excavation, perforated pipe, filter material, outlet pipe, aggregate backfill, and disposing of all surplus material is included with this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured by the linear foot of free draining base trench installed, complete in place and accepted. The perforated pipe, geotextile, and aggregate backfill is a component of the free draining base trench. Length shall be determined from actual measurements once the free draining base trench is in place. No deductions shall be made for placement of the drop connection required at outlet pipe locations. Outlet pipes required from the free draining base trench to daylight or another drainage structure are incidental to this item.

Payment: The quantities, determined as provided above, shall be paid for at the contract unit price per linear foot.

Bid Item 20: Hardstand Paving**Unit:** Square Yard (SY)

Description: This work includes, but is not limited to, furnishing and complete installation of AASHTO #1 and WVDOT Class 1 aggregates, and heavy duty woven geotextile for pavements. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.

Payment: Payment shall be made at the contract unit price per square yard.

Bid Item 21: Concrete Curbing**Unit:** Linear Foot (LF)

Description: This work shall include, but is not limited to, the construction of cast-in-place concrete curbing at the locations shown on the Plans, or as directed by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Curbing shall be measured along the front face of the section at the finish grade elevation.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 22: Wheel Stops**Unit:** Each (EA)

Description: This work includes, but is not limited to, furnishing and complete installation of plastic wheel stops as directed by the COTR. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured per each wheel stop completely installed.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 23: Signage**Unit:** Lump Sum (LS)

Description: This item includes, but is not limited to, furnishing and installing miscellaneous signs, stop, parking, informational, etc. as noted on the Plans or as directed by the COTR. Signs, posts, foundations, and necessary hardware are included. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on completion of work described.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 24: Gravel Road**Unit:** Square Yard (SY)

Description: This work shall consist of installation of the gravel access road in locations specified on the plans or as directed by the COTR. Gravel road work includes excavation, geotextile fabric, stone, and backfill. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on square yard of paving in place, completed, and accepted by the COTR.

Payment: This item shall be paid for at the contract price per square yard.

Bid Item 25:	Gravel Apron
Unit:	Linear Foot (LF)
Description:	This work shall consist of installation of the gravel apron for the Military Equipment Parking area in locations specified on the plans or as directed by the COTR. Gravel apron work includes excavation, geotextile fabric, stone, and backfill. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.
Measurement:	Measurement shall be based on linear feet of gravel apron in place, completed, and accepted by the COTR.
Payment:	This item shall be paid for at the contract price per linear foot.
Bid Item 26:	Sidewalk
Unit:	Square Yard (SY)
Description:	This work shall consist of furnishing and installing welded wire mesh reinforcing, 4,500 psi air-entrained concrete, Class 1 stone, formwork and incidentals associated with concrete sidewalks and pads as detailed on the Plans. The areas adjacent to the building shall also include drainage fill and foam insulation. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.
Measurement:	Measurement shall be based on square yards of area completed for the work described. Excess material or material placed beyond approved limits shall not be included in the measured quantity.
Payment:	Payment shall be made at the contract unit price per square yard.
Bid Item 27:	Type I Lawn
Unit:	Lump Sum (LS)
Description:	This work shall consist of lawns as shown on the Drawings and specified in Section 02920, "Lawns and Grasses". The bid item shall include fine grading and preparing lawn areas, furnishing and applying soil amendments and fertilizers, seeding lawn areas, protection and maintenance of lawn areas. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.
Measurement:	Measurement shall be based on completion of work described.
Payment:	Payment shall be made at the contract unit price for lump sum.

Bid Items 28–33: Sliding Gate – 24', 20'; Double Swing Gate – 16', 12', 8'; Personnel Gate – 5'**Unit:** Each (EA)

Description: This work consists of furnishing and complete installation of various types of gates for chain link fences and site security. The price shall include excavating, trenching, concrete footings, backfilling, grouting posts in place, grounding, bonding, barbed wire, and locks. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be per each gate completely installed.

Payment: The accepted quantities of gates shall be paid for at the contract unit price per each complete in place.

Bid Item 34: Security Fencing**Unit:** Linear Foot (LF)

Description: This work consists of furnishing and complete installation of chain link fencing and personnel gates. The price will include excavating, trenching, concrete footings, backfilling, grouting posts in place, grounding, bonding, barbed wire, and gate hardware. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be along the bottom wire of the fence from outside to outside of end posts for each continuous run of fence, excluding lengths occupied by vehicular gates.

Payment: The accepted quantities of fencing materials shall be paid for at the contract unit price per linear foot complete in place.

Bid Item 35: 40' Flagpole**Unit:** Each (EA)

Description: This item includes furnishing and installing the 40' aluminum flagpole in front of the facility. The foundation, including excavation, aggregate, concrete and miscellaneous hardware are incidental to this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There shall be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for each.

Bid Item 36: Natural Rock Obstacles**Unit:** Linear Foot (LF)

Description: This item of work consists of furnishing and installing durable, on-site or imported rock, landscape fabric, No. 57 stone, and edging as shown on the Plans. Excavation, shaping, sizing, and placement of the rocks are incidental. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be by the linear foot along the front face of the obstacles at the finished grade elevation.

Payment: Payment shall be made at the contract unit price for linear foot.

Bid Item 37: Oil/Water Separator

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of an underground separator designed for gravity separation of free oils (hydrocarbons and other petroleum products) and settleable solids from wastewater. Excavation, backfill, concrete pad, bedding material, manways, piping and fittings to a point beyond the outline of the tank, alarm and control panel, electrical and data wiring, and vent piping are incidental. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on completion of the work described according to the Basis of Payment below.

Payment: Payment shall be made at the contract unit price for each.

Bid Items 38–39: Bollards 8", Bollards Removable

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of bollards. The unit price shall include furnishing and installing metal posts, and associated hardware, concrete footings, excavation, backfill, and compensation for doing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, and incidentals required to complete the work.

Measurement: The quantity of work done shall be measured per each bollard completely installed and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Items 40–43: Water Line, PVC – 4", 6", 10" and 12"

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing various sizes of water line. These prices shall fully compensate the Contractor for providing pipe, fittings, valves, bedding, excavation, backfill, concrete thrust blocks, concrete encasement, steel casing pipe, asphalt repair, curb stops, flushing, testing, coordination with the Mingo County Public Service District and agencies having jurisdiction for acceptance. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of water line in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings and appurtenances associated with the water line.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 44:	PIV
Unit:	Each (EA)
Description:	This work consists of furnishing and complete installation of Post Indicator Valves. The unit price shall include furnishing and installing the valves, fittings, excavation, bedding, backfill, concrete thrust blocks, saw-cutting of pipe, and testing and inspection. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.
Measurement:	The quantity of work done shall be measured per unit PIV acceptably installed.
Payment:	Payment shall be made at the contract unit price per each.
Bid Item 45:	Fire Hydrant
Unit:	Each (EA)
Description:	This work consists of furnishing and complete installation of exterior fire hydrants. The unit price shall include furnishing and installing a fire hydrant, fittings, excavation, bedding, backfill, concrete thrust blocks, saw-cutting of pipe, and testing and inspection. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.
Measurement:	The quantity of work done shall be measured per unit fire hydrant acceptably installed.
Payment:	Payment shall be made at the contract unit price per each.
Bid Item 46:	Water Vault
Unit:	Each (EA)
Description:	This work consists of furnishing, placing and installing the precast concrete vault, bedding, backfill, water meter, backflow preventer and associated valves and appurtenances as detailed in the Plans. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.
Measurement:	Measurement shall be per water meter pit installed and accepted by the COTR and authorities having jurisdiction.
Payment:	Payment shall be made at the contract price per each.
Bid Item 47:	Manholes, Sanitary Sewer
Unit:	Vertical Foot (VF)
Description:	This work shall include, but is not limited to, installing pre-cast concrete manholes at the locations specified in the plans. Excavation, bedding, manhole section and grade ring installation, backfill, and testing and inspection are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on vertical feet of manhole in place, as measured from the invert to the top of concrete or spacer ring, completed and accepted by the COTR and authorities having jurisdiction.

Payment: Payment shall be made at the contract unit price per vertical foot.

Bid Item 48: Frame & Cover, Sanitary Sewer

Unit: Each (EA)

Description: This work consists of furnishing, placing and installing the frame and cover for sanitary manholes as detailed in the Plans. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be per frame and cover installed and accepted by the COTR.

Payment: Payment shall be made at the contract price per each.

Bid Items 49-53: PVC Sanitary Sewer, 3", 4", 6", and 8"; DIP, 8"

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing various sizes of sanitary sewer piping. These prices shall fully compensate the Contractor for providing pipe, bedding, excavation, backfill, fittings, cleanouts, casing pipes, pavement repairs, testing and coordination with the Mingo County Public Service District for acceptance. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of sanitary sewer piping in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings, appurtenances, and cleanouts associated with the sanitary sewer piping.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 54: Cleanout, Sanitary Sewer

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of cleanout. The unit price shall include furnishing and installing pipe, fittings, concrete apron, excavation, and backfill. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: The quantity of work done shall be measured per each cleanout completely installed and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 55: 4" Gas Service Line**Unit:** Linear Foot (LF)

Description: This work shall consist of furnishing and installing 4" gas lines from the building to point of connection on the Plans. These prices shall fully compensate the Contractor for providing pipe, bedding, excavation, backfill, valves, existing utility tie-ins, pavement restoration, and casing pipes. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of gas line in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings and appurtenances associated with the gas line.

Payment: Payment shall be made at the contract unit price per linear foot of line in service.

Bid Items 56-59: Storm Line, PVC – 4", 6", 8", and 12"**Unit:** Linear Foot (LF)

Description: This work consists of the furnishing and complete installation of PVC pipe for storm drainage outside the building. This price shall fully compensate the Contractor for providing pipe, bedding, excavation, backfill, fill, fittings, and pavement repairs. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Conduit of the different types and sizes, shall be measured by the linear foot in place, the measurement being made along the centerline of each pipe installed. Branch connections, tees, wyes, and elbows shall be measured along their centerlines and these lengths included in the total lengths of the appropriate conduit. Wyes, tees, and other branch connections shall be measured along the centerlines to points of intersection. The portion of pipe extending through to the inside face of headwalls of all types, manholes, inlets, boxes, or other structures shall be included in the measurement.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Items 60-63: Storm Line, HDPE – 15", 18", 24" and 30"**Unit:** Linear Foot (LF)

Description: This work consists of the furnishing and complete installation of high density polyethylene pipe for storm drainage. Pipe, bedding, excavation, backfill, fill, fittings, and pavement repairs, are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Conduit of the different types and sizes, shall be measured by the linear foot in place, the measurement being made along the centerline of each pipe installed. Branch connections, tees, wyes, and elbows shall be measured along their centerlines and these lengths included in the total lengths of the appropriate conduit. Wyes, tees, and other branch connections shall be measured along the centerlines to points of intersection. The portion of pipe extending through to the inside face of headwalls of all types, manholes, inlets, boxes, or other structures shall be included in the measurement.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Items 64-65: Type 1 Ditch, Type 2 Ditch**Unit:** Linear Foot (LF)**Description:** This work shall consist of the construction of open flow ways for surface drainage, using geotextile fabric, riprap and grout. Excavation, shaping and lining and geotextile fabric are incidental.**Measurement:** The quantity of work done shall be measured along the flow line of the ditch, from the first point of design depth to the point where the ditch breaks the plane of the drainage structure it empties into.**Payment:** Payment shall be made by the contract unit price per linear foot.**Bid Items 66-67: Type 3 Ditch, Type 4 Ditch****Unit:** Linear Foot (LF)**Description:** This work shall consist of the construction of open flow ways for surface drainage, using permanent erosion control matting. Excavation, shaping, seeding, and lining are incidental. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** The quantity of work done shall be measured along the flow line of the ditch, from the first point of design depth to the point where the ditch breaks the plane of the drainage structure it empties into.**Payment:** Payment shall be made by the contract unit price per linear foot.**Bid Item 68: Junction Box****Unit:** Each (EA)**Description:** This work shall consist of installing pre-cast or cast-in-place concrete junction boxes for storm drainage. Pipe connection, bedding, excavation, backfill, fill, fittings, frames and covers, and pavement repairs, are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.**Measurement:** Measurement shall be based on each junction box in place completed, and accepted by the COTR.**Payment:** Payment shall be made at the contract unit price for each.**Bid Items 69-70: Type "B" and "G" Drop Inlet****Unit:** Each (EA)**Description:** This work shall consist of installing pre-cast or cast-in-place concrete inlets for storm drainage. Pipe connection, bedding, excavation, backfill, fill, fittings, grates, frames, and pavement repairs, are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on each drain inlet in place completed, and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Items 71-72: 12" Yard Drain, Drain Basin

Unit: Each (EA)

Description: This work shall consist of installing drains and inlets for storm drainage. Inlets, grates, pipe, excavation, bedding, backfill, fill, fittings and pavement repairs are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on each yard drain in place completed, and accepted by the COTR.

Payment: Payment shall be made at the contract unit price per each.

Bid Item 73: Concrete Headwall

Unit: Each (EA)

Description: This work shall consist of installing cast-in-place concrete headwalls for storm drainage. Excavation, forming, reinforcement, concrete, pipe connection, aggregate bedding, backfill, and concrete finishing are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be for each headwall completely installed.

Payment: Payment shall be made at the contract unit price for each complete and in place.

Bid Item 74: Electrical Duct Bank Type 1

Unit: Linear Foot (LF)

Description: This work shall consist of trenching and backfill, vaults, handholes, junction boxes, conduit, concrete, and pull ropes required for the installation of underground primary. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on transformer pad and linear feet of underground primary constructed in conformance with the plans and specifications.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 75: Electrical Duct Bank Type 2

Unit: Linear Foot (LF)

Description: This work shall consist of trench and backfill, vaults, handholes, junction boxes, conduit, concrete, pull ropes, and conductors required for the installation of underground secondary between the transformer and the combined duct bank. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of underground secondary constructed in conformance with the plans and specifications.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 76: Electrical Duct Bank Type 3

Unit: Linear Foot (LF)

Description: This work shall consist of trench and backfill, vaults, handholes, junction boxes, conduit, concrete, pull ropes, conductors, and control wires required for the installation of underground secondary between the Readiness Center and the emergency generator. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of underground secondary constructed in conformance with the plans and specifications.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Items 77-78: Combined Duct Bank Type 1, Combined Duct Bank Type 2

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing conduits from the building or the point of origin to the point of connection on the Plans. These prices shall fully compensate the Contractor for providing pipe, fiber, wires, conductors, extra pull ropes, vaults, handholes, junction boxes, pedestals, concrete, excavation, backfill, and sleeves. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of duct bank in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings, and appurtenances associated with the duct bank.

Payment: Payment shall be made at the contract unit price per linear foot of line in service.

Bid Item 79: Communications Duct Bank Type 1

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing conduits from the building or the point of origin to the point of connection on the Plans. These prices shall fully compensate the Contractor for providing pipe, fiber, wires, extra pull ropes, vaults, handholes, pedestals, concrete, excavation, backfill, and sleeves. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of duct bank in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings, and appurtenances associated with the duct bank.

Payment: Payment shall be made at the contract unit price per linear foot of line in service.

Bid Item 80: Transformer Pad

Unit: Lump Sum (LS)

Description: This work shall consist of a cast-in-place concrete pad for the electrical transformer(s). The pad must meet the requirements of Appalachian Power Company for the transformer(s) used. This shall include excavation, concrete, reinforcing, grounding hardware, bollards for vehicular protection, aggregate base and any other incidentals necessary for a complete and functional pad. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 81: VAV HVAC System

Unit: Lump Sum (LS)

Description: This work shall consist of gas-fired and electric DX rooftop units, VAV and constant volume, including ductwork, VAV boxes with reheat coils, grilles, registers, diffusers, wall mounted thermostats and BAS controls as shown on the Alternate Plans. Include all ancillary items for a complete, properly operating HVAC system. Perform all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 82: Fluorescent Light Fixtures

Unit: Lump Sum (LS)

Description: This item shall consist of providing interior fluorescent lighting fixtures throughout the facility in lieu of interior LED (Light Emitting Diode) type fixtures. The work shall consist of any and all materials, equipment, and labor for items required by the contract documents to provide a complete and functional fluorescent lighting system as listed under Alternate Bid # 2 in the Drawings and Specifications. This alternate includes fluorescent lighting fixtures, electronic ballasts, controls and all associated conduit and wiring required for a complete interior lighting package. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 83: Generator

Unit: Lump Sum (LS)

Description: The item shall consist of any and all material, equipment, and labor for items required by the contract documents to provide a complete and functional generator as shown under Alternate Bid #3 in the Drawings and Specifications. The generator alternate includes the generator, the transfer switch, and the generator pad. The work shall include all miscellaneous conduit and wiring required for a complete and functional installation. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 84: Vehicle Wash Rack and Canopy

Unit: Lump Sum (LS)

Description: This work shall consist of adding a vehicle wash rack and canopy as shown in the Plans. Excavation, concrete, aggregate base, waterstops, structural steel, foundations, roof panels, trim panels, associated drainage structures, piping, conduits, post hydrant, hose reels and hose, and other ancillary equipment within the boundary created by the edge of the concrete pad are incidental to this item of work. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 85: Water Line, PVC – 1"

Unit: Linear Foot (LF)

Description: This work shall consist of furnishing and installing 1" PVC water line. These prices shall fully compensate the Contractor for providing pipe, fittings, valves, bedding, excavation, backfill, concrete thrust blocks, concrete encasement, steel casing pipe, asphalt repair, curb stops, flushing, testing, coordination with the Mingo County Public Service District and agencies having jurisdiction for acceptance. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of water line in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings and appurtenances associated with the water line.

Payment: Payment shall be made at the contract unit price per linear foot.

Bid Item 86: Pre-Engineered Metal Building

Unit: Lump Sum (LS)

Description: The item shall consist of any and all material, equipment, and labor for items required by the contract documents to provide a complete and functional Unheated Storage Buildings as shown under Alternate Bid #5 in the Drawings and Specifications. This item shall include any additional items related to Site Construction where a unit cost has not been requested.

Additionally, this work shall include site utilities, excavation and backfill to foundation subgrade for utilities and foundations, and grading within five feet of the perimeter. The work shall include, but is not limited to, all materials, labor, equipment, and incidentals to construct the facility within the terms and conditions of the plans and specifications. This work also includes, but is not limited to: building excavation; backfill; foundation systems; gravel dry beds; concrete; pre-engineered metal storage buildings; and electrical systems. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, dated July 3, 2013 as well as any addenda issued during the bidding process. Work shall include, but is not limited to, providing labor, materials, equipment, and incidentals necessary to perform all items of work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 87: Deep Dynamic Compaction (DDC) for Unheated Storage

Unit: Lump Sum (LS)

Description: This work shall consist of improving the strength and compressibility characteristics of subsurface soils by providing deep dynamic compaction for the unheated storage building shown on the plans and as specified in the contract documents. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, engineering support, supervision, and quality control required to complete the work.

Measurement: There shall be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price per lump sum.

Bid Item 88: Fuel Truck Parking Pad

Unit: Lump Sum (LS)

Description: This work shall consist of a cast-in-place concrete fuel truck pad as shown in the Plans. This shall include excavation, concrete, reinforcing, aggregate base, inlet, grate, piping, valves, and any other incidentals necessary for a complete and functional pad. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 89: Lockers

Unit: Lump Sum (LS)

Description: The item shall consist of any and all material, equipment, and labor for items required by the contract documents to provide complete and functional lockers as shown under Alternate Bid #7 in the Drawings and Specifications. This work shall consist of metal and plastic lockers, locker installation, and all incidentals necessary for complete and functional lockers. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 90: Loading Dock

Unit: Lump Sum (LS)

Description: The item shall consist of any and all material, equipment, and labor for items required by the contract documents to provide complete and functional loading dock as shown under Alternate Bid #8 in the Drawings and Specifications. This item shall include any additional items related to Site Construction where a unit cost has not been requested. Additionally, this work shall include site utilities, excavation and backfill to foundation subgrade for utilities and foundations, and grading within five feet of the perimeter. The work shall include, but is not limited to, all materials, labor, equipment, and incidentals to construct the loading dock within the terms and conditions of the plans and specifications. This work also includes, but is not limited to: excavation; backfill; foundation systems; gravel dry beds; concrete; and dock bumpers. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, dated July 3, 2013 as well as any addenda issued during the bidding process. Work shall include, but is not limited to, providing labor, materials, equipment, and incidentals necessary to perform all items of work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 91:	Deep Dynamic Compaction (DDC) for Loading Dock
Unit:	Lump Sum (LS)
Description:	This work shall consist of improving the strength and compressibility characteristics of subsurface soils by providing deep dynamic compaction for the loading dock shown on the plans and as specified in the contract documents. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, engineering support, supervision, and quality control required to complete the work.
Measurement:	There shall be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.
Payment:	Payment shall be made at the contract unit price per lump sum.
Bid Item 92:	Retaining Wall
Unit:	Linear Foot (LF)
Description:	This item of work is a cast-in-place concrete retaining wall. Excavation, backfill, handrail, and associated subsurface drainage are incidental. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.
Measurement:	Measurement shall be by the linear foot along the front face of the wall at the finished grade elevation.
Payment:	Payment shall be made at the contract unit price for linear foot.
Bid Item 93:	Trench Drain & Grate
Unit:	Linear Foot (LF)
Description:	This work shall consist of installing a vehicular trench drain for storm drainage. Pipe connection, bedding, excavation, backfill, reinforcement, concrete, fittings, frames and grates are included in this item. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.
Measurement:	Measurement shall be based on linear foot of trench drain installed and accepted by the COTR, measured along the center-line from end of grate to end of grate.
Payment:	Payment shall be made by the contract unit price per linear foot.
Bid Item 94:	Loading Ramp
Unit:	Lump Sum (LS)
Description:	This item of work is a cast-in-place reinforced concrete loading ramp with two levels. The aggregate, backfill, dock bumpers, excavation and soil backfill, and any other ancillary equipment required are incidental. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There shall be no direct measurement for materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 95: 30' Double Swing Gate

Unit: Each (EA)

Description: This work consists of furnishing and complete installation of a 30' double swing gate for chain link fences and site security. The price shall include excavating, trenching, concrete footings, backfilling, grouting posts in place, grounding, bonding, barbed wire, and locks. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be per each gate completely installed.

Payment: The accepted quantities of gates shall be paid for at the contract unit price per each complete in place.

Bid Item 96: Operable Partitions

Unit: Lump Sum (LS)

Description: The item shall consist of any and all material, equipment, and labor for items required by the contract documents to provide complete and functional Operable Partitions as shown under Alternate Bid #10 in the Drawings and Specifications.

This item includes the miscellaneous steel framing. The full extent of this work is defined by the Contract Documents, including the Drawings and Project Manual, as well as any addenda issued during the bidding process. Work shall include, but is not limited to, providing labor, materials, equipment, and incidentals necessary to perform all items of work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 97: Trash Enclosure

Unit: Lump Sum (LS)

Description: This work shall consist of constructing a pad and walls at the back of the main building as shown in the Plans. Excavation, concrete, aggregate base, masonry walls, coping, associated bollards, and other ancillary equipment are incidental to this item of work. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 98: Overhead Crane

Unit: Lump Sum (LS)

Description: The item shall consist of any and all material, equipment, and labor for items required by the contract documents to provide complete and functional overhead crane as shown under Alternate Bid #12 in the Drawings and Specifications. This work shall consist of the crane, crane installation, as well as miscellaneous steel framing. The work shall include all of the miscellaneous framing and electrical connections for a complete and functional installation. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 99: Fencing/Gate Upgrade

Unit: Lump Sum (LS)

Description: This work shall consist of upgrading all security fencing, swing gates, sliding gates, and alternate bid items to an eight foot chain-link fabric height. Force Protection Gate is not included. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: There will be no direct measurement of materials, labor, and services provided by the Contractor in completing this item.

Payment: Payment shall be made at the contract unit price for lump sum.

Bid Item 100: 6" Subsurface Drains

Unit: Linear Foot (LF)

Description: This work shall consist of installation of subsurface drains of specified size in locations specified on the plans or directed by the COTR. The drains are to be installed in locations that will intercept the maximum amount of seepage. Subsurface drain work includes dewatering, excavation, drainage fabric, stone, pipe, fittings, cleanouts and backfill. This includes performing all work prescribed in a workmanlike and acceptable manner, including labor, tools, equipment, supplies, material, incidentals, and quality control required to complete the work.

Measurement: Measurement shall be based on linear feet of drains in place, completed, and accepted by the COTR. It shall be measured along the centerline and shall include all fittings as typical pipe section in the pipe being measured.

Payment: This item shall be paid for at the contract price per linear foot.

END OF SECTION

**State Change Order Submission Checklist for WVARNG Project Use
ONLY:
(Attachment B Sect 01035)**

- _____ Memorandum of Justification for Change Order Body (Owner)
 - Justification of Delay (if applicable – 20 days beyond signature dates)
 - Itemized Description, justification, and cost for work modifications
 - Consolidated pricing
 - Proper format
 - Proper labeling
 - Project Manager/Branch Chief Signatures

- _____ WV-35 (Owner)
 - Correct Cost
 - “X” Document
 - Signed
 - Correct Change Order #

- _____ Verification of Vendor in Good standing (Owner)
 - Secretary of State Registration
 - State Contractor License
 - Insurance Commission
 - Workers Comp

- _____ CFMO Modification Document (All)
 - Correct Cost
 - Correct Time
 - Standard Language
 - Correct label/identifier

- _____ **Contractor** Letter(s) – also see “Backup Information” below
 - Original Letters
 - Correct Cost
 - Purchasing Affidavit signed by the vendor

- _____ Backup Information
 - Contractor’s Estimate/detailed quotes/sub-contractor’s detailed quotes if applicable (Contractor)
 - TAG-CFO Authorization (if applicable) (Owner)

- _____ Contractor Bonding Change (Contractor)
 - Original Rider and Raised Seals and Acknowledgement
 - Correct cost – must exactly match new contract amount



SAMPLE

Proposal

To: [Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]

Number: 7
Date: [Redacted]
Job: L. WVANG AFRC -
Phone: [Redacted]

Description: [Redacted] Revisions

Reason: Design Change

Initiated by:

Sources: PR 307

We are pleased to offer the following specifications and pricing to make the following changes:
Refer to AIA G709 - 2001 Proposal Request Number: Du..

Description	Price
See Attached Detailed Breakdown	
GC Labor	
Door, Frame & Hardware Material (A.G. Mauro)	\$777.10
Label Door Frame Onsite (Guardian)	\$2,375.00
Masonry Lintel (Fumo Products)	\$1,450.00
Masonry Patching (Metro Masonry)	\$510.00
Electrical (B. Armstrong Elec)	\$510.07
	\$685.00
	Subtotal
	\$6,707.18
Sales Tax	\$2,885.00 8.00%
GC Bonds	\$5,885.28 1.50%
GC Mark-up (Sub Work)	\$2,945.09 10.00%
GC Mark-up (GC Work)	\$3,762.10 15.00%
	\$664.31
	Total:
	\$7,448.39

The schedule is not affected by this change.

If you have any questions, please contact me at (304) 525-5181.

Submitted by: [Redacted]

Approved by: [Redacted]

Date: [Redacted]

Cc:

SAMPLE

#007

ITEM	ITEM DESCRIPTION	BID QUANTITIES	UNITS	UNIT PRICE	EXTENDED PRICE
1	Flip door swing doors 1042, 1044 & 1046				
	Reuse frame #1046 in opening #1044	N/C	MH	\$ 48.57	\$ -
	Reuse frame #1044 in opening #1046	N/C	MH	\$ 48.57	\$ -
	Reuse frame #1098 in opening #1042	N/C	MH	\$ 48.57	\$ -
2	Flip door swing doors 1098				
	Reuse frame #1042 in opening #1098	N/C	MH	\$ 48.57	\$ -
	Add Label on-site for Fire Rating	1 LS		\$ 1,450.00	\$ 1,450.00
3	Revise door and frame type at opening #1100				
	Remove existing frame already set	8 MH		\$ 48.57	\$ 388.55
	Set new frame	2 MH		\$ 48.57	\$ 97.14
	New Materials (see quote)	1 LS		\$ 470.00	\$ 470.00
	Door & Hardware labor	N/C	MH	\$ 48.57	\$ -
	Masonry Infill (see quote)	1 LS		\$ 610.07	\$ 610.07
4	New door and frame at new opening #1016A				
	Set new frame	2 MH		\$ 48.57	\$ 97.14
	New Materials - lintel (see quote)	1 LS		\$ 610.00	\$ 610.00
	New Materials - door / frame / hrdw	1 LS		\$ 1,905.00	\$ 1,905.00
	Door & Hardware labor	4 MH		\$ 48.57	\$ 194.28
	Electrical (exit light & security)	1 LS		\$ 885.00	\$ 885.00
	SUBTOTAL				\$ 6,707.17
6	Sales Tax on Reinforcing Steel Material	\$ 2,985.00			\$ 179.10
7	Bonds (1.5%)	\$ 6,886.27			\$ 103.29
8	Mark-up Subcontractor Work (10%)	\$ 2,945.07			\$ 294.51
9	Mark-up Work / Purchases (15%)	\$ 3,762.10			\$ 564.32
	TOTAL				\$ 7,848.39



SAMPLE

~~CONFIDENTIAL - SECURITY INFORMATION~~

Quote #1. _

Date

N

F

ATTN: Mr. I

Job Name: I - Armed Forces Reserve Center

Job Location: I

WE HEREBY PROPOSE TO FURNISH THE FOLLOWING MATERIALS:

Add \$2,375.00
 + 5% WV Sales Tax \$ 142.50
 Add Total \$2,517.50

RFI # 007

The above price is for various changes to the above contract as directed by the above RFI and Neighborhood Construction e-mail dated 9-15-2010.
 Reference breakdown sheet attached.

Qualifications:

- 1) Labeling of previously shipped frame # 1090 in the field must be accomplished by others.
- 2) The above price is based on this change being accepted prior to the release of wood doors for the balance of the project.

Please sign and return this quotation if we are to proceed with ordering and fabrication. No materials related to this change can be delivered until an executable change order has been received. Please expedite the change order to avoid delays in delivery once materials are received.

Terms No Retention-Net 30 Days

Quoted By: _____

Finance charge of 1-1/4% per month.

will be applied on invoices after 60 days.

ACCEPTANCE OF PROPOSAL: The above prices, specifications, terms and conditions are satisfactory and are hereby accepted.

COMPANY _____

DATE OF ACCEPTANCE _____

BY _____

SAMPLE

United Forces Readiness Center

Breakdown Sheet

- 1) For the addition of opening # 1016A

	Add \$1,905.00
1 Hollow Metal Frame 3870 x 5 1/4" jamb Depth x 4" Head	Add \$ 285.00
1 Hollow metal Door 3870 x Flush x Galvanized x Seamless	Add \$ 420.00
1 Architects Hardware Set 35	Add \$1,200.00

- 2) For the addition of a new hollow metal frame for opening # 1100

	Add \$470.00
1 Hollow Metal Frame 3870 x 5 1/4" jamb Depth x 4" Head	Add \$200.00
-1 Wood Door 3070 - Narrow Lite-Non Label	Deduct \$170.00
1 Wood Door 3070 - Narrow Lite- 45 Minute Label	Add \$440.00

- 3) Reuse Hollow Metal Frame # 1046 at opening # 1044

Due to swing change	No Charge
---------------------	-----------

- 4) Reuse Hollow Metal Frame # 1044 at opening # 1046

Due to swing change	No Charge
---------------------	-----------

- 5) Reuse Hollow Metal Frame # 1098 at opening # 1042

Due to swing change	No Charge
---------------------	-----------

- 6) Reuse Hollow Metal Frame # 1042 at opening # 1098

Due to swing change	No Charge
---------------------	-----------

Note: Adding a label to frame # 1098 in the field must be accomplished by others.



SAMPLE

FIRE TESTING LABORATORIES, INC. QUOTE/PROPOSAL (v.10/05)

000046

Phone: _____ Fax: _____

Web Site: _____
Email: _____

Date: 10/13/10

Quote No: 1013108

Attention: _____ Please fill in lines marked with an "X"

Company: N. _____

Address: _____ NY 12591

Phone: _____ Fax: _____ Email: _____

Service: Examining, Inspecting and/or Labeling 1 Openings (an Opening Is 1 Door &/or 1 Frame)

Pricing Details: Basic Charge = \$700.00 + Expenses (this covers 10 openings); Additional Openings Over 10 = \$30.00 each

Fee: Total: \$1,450.00 (includes \$750 for expenses; openings over 10 will be billed @ \$30.00 each)

If metal labels are preferred, add \$8.00 per label to the fee. Also, please see "Special Notes" #3 below.

Test Standard: UL 63; HUD Archule; GL-97-02

Work Location: _____ AERC Contact Person: Jane

Work Address: _____ Phone: same

Approx. Commencement Date: _____ (N.B.: P.O. # must be received before job can be put on schedule)

Work Assigned To: _____

N.B.: FOR DOOR LABELING SERVICE, DOUBLE DOORS IN ONE FRAME = TWO OPENINGS

Special Notes: 1. We will need the use of a small cart, like a medicine cart, 36" high. 2. Mylar self-adhesive labels will be used. 3. If metal labels are preferred, the contractor's staff will be responsible for riveting the metal labels to the doors and frames. 4. GUARDIAN ACCEPTS VISA OR MASTER CARD. 5. QUOTE WILL BE IN EFFECT FOR 60 DAYS AFTER ISSUING DATE

GUARDIAN FEDERAL I.D. #: 14-176957

Guardian Requires a Purchase Order From The Client & Client's Signature Below Please return signed copy with appropriate blanks filled in along with P.O. or P.O. number to Guardian: Thank you for choosing Guardian.

For: _____	For Client: _____
Signature: _____	Accepted by: _____
Print Name: _____	Print Name: _____
Title: <u>Administrator</u>	Title: <u>Buyer</u> Date: _____
Date: <u>10/13/10</u> GL #: _____	Company: _____
	P. O. #: _____

000047

10-21-'10 12:35 FROM-Y

T-688 P0001

F-955

PHONE

SAMPLE

**RESPONSE TO REQUEST
FOR PROPOSAL
DOOR CHANGE AT #1100**

2010

Company

PHONE
FAX

RE: Armed Forces Reserve Center
7

Cost for labor, material and equipment to:

In-fill for Door Change at #1100. Total Additional Cost \$810.07

Please advise in writing if this Proposal is accepted

5. 7

SAMPLE

** DEBIT MEMO ****

PAGE: 1

CHA

.3-2753

INVOICE NUMBER: C

INVOICE DATE:

ORDER NUMBER:

SALESPERSON:

CUSTOMER NO:

SOLD TO:

N.

F

HL

SHIP TO:

TV ARMED SERVICES PROJECT

C, CONSTRUCTION

WV

STOMER P.O.

REBAL

TERMS

Net 30 Days

BEAM LINTER

610.00

ORDERED BY T

NET INVOICE:	610.00
FREIGHT:	.00
SALES TAX:	36.60
INVOICE TOTAL:	646.60

tion certificates are required for the state
which material is delivered or tax must be paid



Phone: 204
 Fax: 0
 E-Mail: 204

WV
 P.

October 1

Hunt

Attn: I

Armory -

1) Door Addition -

Exit Light & Materials - $\$52.18 + 15\% = \175.00

Labor - 3 hours @ $\$65.22 + 15\% = \210.00

Fire Alarm Pull Station -

Pull Station & Materials - $\$82.82 + 15\% = \95.00

Labor - 2 hours @ $\$65.22 + 15\% = \150.00

Door Contact -

Door Contact & Materials - $\$39.14 + 15\% = \45.00

Labor - 3 hours @ $\$65.22 + 15\% = \210.00

Total - $\$885.00$

Thank you,

WEST VIRGINIA ARMY NATIONAL GUARD
CONSTRUCTION & FACILITIES MANAGEMENT OFFICE
DESIGN & CONSTRUCTION BRANCH
1703 Coonskin Drive
Charleston, West Virginia, 25311-1085

SAMPLE
2

FMO-OTR-

08 2013

State of West Virginia Department of Administration
Purchasing Division
Attn: Tara Lyle
2019 Washington Street, East
Charleston, WV 25305-0130

Subject: Contract Changes (CO#), RC, Counties,
WV

Re: , Contract DEFK NGB PN

Dear Ms. Lyle:

Please accept the following information as sufficient justification for Changes on the above-referenced Construction Contract associated with the Readiness Center project in Counties, WV.

Item #1: WV NPDES Stormwater Permit Application Fee

1. Scope-of-Work: Provide the monies required for the A/E to pay the NPDES Stormwater Permit Application Fee directly to the State of West Virginia on behalf of the WVARNG, using Federal Design funds.
2. Justification for Change: The A/E Contract for the above-referenced Project was executed in 2006. In more recent times, the WVARNG has included responsibility for the payment of the WV NPDES Stormwater Permit Application Fee in the A/E's Contract for similar Projects. Executing a Change Order to the A/E's Contract for the Logan/Mingo RC Project will make it consistent with the terms of similar A/E Contracts for other current Projects. There is no re-work involved with this change.
3. Cost: \$1,287.00
4. Funding: 100% Federal Funds = \$1,287.00
0% State Monies = \$0.00

Item #2: Contract Time Extension

1. Scope-of-Work: Extend the A/E Contract Expiration Date from 31 December 2012 to 31 December 2013.

2. Justification for Change: The A/E Contract was executed in 2006 with a Contract Expiration Date of 31 December 2012. The time required for the WVARNG to secure funding for completion of this Contract pushed the date for submission of the Construction Bid Documents to the NGB out to February 2013. Extending the A/E Contract Completion Time from 31 December 2012 to 31 December 2013 (365 days) will provide adequate time for the A/E to fulfill their obligations regarding the design and bidding phase services for this Project.
3. Cost: \$0.00
4. Funding: 0% Federal Funds = \$0.00
0% State Monies = \$0.00

Accounting Summary:

Item #	COR #	Description	Reason	Within Scope	Amount	Time	FEDERAL	STATE
1	N/A	WV NPDES Stormwater Permit Fee	O	Y	\$1,287.00	0	\$1,287.00	\$0.00
2	N/A	Contract Time Extension	O	Y	\$0.00	365	\$0.00	\$0.00
Totals					NET CHANGE Days			
					\$1,287.00	365	\$1,287.00	\$0.00

(Reason Notes: E- Error and Omission, U- Unforeseen Condition, O- Owner Directed)

If you have any questions, please contact Mr. _____ at your convenience. We thank you in advance for your continued timely assistance in these matters.

Respectfully,

Concurrence:

Project Manager

Daniel W. Clevenger
MAJ, WVARNG
Design & Construction Branch Chief, CFMO

Attachments:

1. WV-35
2. Purchasing Affidavit
3. Back-up Information

.CP-005 FMO-OTR-25
.DP.02.B.1.4

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: DEFK14000

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

<input type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
<input type="checkbox"/> Addendum No. 4	<input type="checkbox"/> Addendum No. 9
<input type="checkbox"/> Addendum No. 5	<input type="checkbox"/> Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company

Authorized Signature

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.