



THE CITY OF DAYTONA BEACH
OFFICE OF THE PURCHASING AGENT

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ADDENDUM NO. 2

DATE: April 17, 2018
PROJECT: ITB 0318-1140
First Step Shelter Program Site Work and Building Foundation”
OPENING DATE: April 24, 2018

This addendum is hereby incorporated into the Request for Proposal for the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strikethrough~~.

1. The following Special Instruction is ADDED as “SI 3: The Contractor is encouraged to achieve a minimum of 20% employment of Volusia County residents.”
2. The Engineer’s Estimate of Probable Cost has been updated for this project and is \$1,236,421.00.
3. Plan Sheets #1, 5, 6, 6A, 6B, 7, 8, 8A, 9, 11, 12 and 17 have been revised, in some instances to account for requirements of the FDOT. The Plan Sheets have also been revised to reflect / coordinate with the architectural and electrical plan more specifically the lighting plan and the grease trap size.
4. The Bid Schedule has been updated along with the Measurement and Payment Section. The bid schedule has been sequentially renumbered and quantities adjusted based on the FDOT (US. 92) turn lane revisions. The Measurement and Payment Section has been revised to include the additional bid items per Addendum No. 1.
5. This Addendum is being issued to the Civil package of this project. This Addendum is part of the Contract Documents and modifies the Project Plans and Specifications as follows:

ADD.2.01 Sheet S3.3 (Addendum #1)

At monument sign add the following:

1. Provide cast aluminum signage on both sides of sign.
2. Facility name shall be 6" high letters.
3. Facility address shall be 4" high numbers and letters.
4. City logo to be 16" diameter cast aluminum (match City graphics).

5. Aluminum plate letters to be 1/2" thick with baked enamel finish (color to be determined) - letter style Microgramma (all caps).
6. Provide concealed (tamper resistant) fasteners per manufacturer's requirements.
7. Graphics to be Nelson-Harkins Industries or equal.

6. The following are answers to questions submitted by prospective bidders:

- a. I did not see any measurement and payment description for all this Foundation work. I assume it is a Lump Sum bid item addition to the Civil contract but it is not spelled out in the addendum. There is no reference to a change in the Bid Form either to add this in.

Response: The foundation work has been provided separate line items on the bid schedule.

- b. Item 1.09 in the addendum changes the two (2) grease trap sizes on the plans from 1,500 gal to 2,500 gal. I do not see a corresponding note reflecting a change to the site package Bid Form (line item 38) (formally bid item 37) that is currently being advertised. This should be clarified to avoid any confusion.

Response: The plans, bid schedule, and measurement and payment section has been updated to reflect 2-2,500 gal. grease traps. (See bid item #38)

- c. Addendum items 1.07 and 1.08 add new communication and new electrical conduit site layout plans into the bid. These plans also reference that they supersede the comm. and elec. conduit layouts shown on sheet 7 of the civil package out for bids. These sheets are very different and more extensive than the conduits on sheet 7. However, I do not see any corresponding adjustment to the quantities shown in the bid form for the civil package currently being advertised. In the civil package bid form line items 24, 25, and 38-40 reflect conduit installation. Also, there appears to be a much more extensive use of concrete encasement on conduits. This item should appear in the bid form or clarified that it is incidental and included in price per foot of conduit installation.

Response: Items 26 and 27 include conduit under pavement. These are for future needs. The conduit provided in Bid Items 39-53 is for fiber optic and electrical needs as identified on the Contract Drawings.

- d. Sheet S2.0: I cannot read this sheet. Please adjust the line weights of both the referenced plan (lighter) and the foundation layers (darker) so that the work reads clearly. (it would help to turn off several of the base floor plan layers to clean this plan up)

Response: The lighter line weight items are not part of the work for this phase but is shown for informational and coordination purposes. The darker weight foundations read clearly as work of the scope. Add note: All work of this phase is shown in the darker weight lines. The foundations are the project scope on this sheet.

- e. Sheet S2.0: Foundation Notes: take out this note as no hatched areas are shown, or show the hatched areas.

Response: Add note: Delete note referencing hatched areas.

- f. Sheet S2.0: Take out 4" slab note box as this plan is only for footings and walls. The scope of this note will be covered on another sheet.
Response: Add note: Delete reference to 4" slab note.
- g. On page 13A regarding the ROLLING GATE & FENCE DETAILS, what is the gauge thickness of the vinyl coated chain link fencing?
Response: Please refer to FDOT Design Standards (dated 2016) Fence Type B, Index No. 802 construction details and specifications (3 sheets) with Type IV Vinyl Coated Fabric.
- h. As per the City Manager's request, please remove the names of: RON McLEMORE and JAMES ROBERT SLOANE, P.E. from the Cover Sheet (CM) "OWNER" section.
Response: See revised Cover Sheet 1, Ron McLemore and James Robert Sloane, P.E. has been removed.

Sheet 11

- i. Note 8, change "insure" to "ensure".
Response: Note 8 has been changed to "ensure" as requested.
- j. Note 10, Does the substantial and final completion time include the 90-day landscape maintenance? If not, how are we paying for those 90 days, are we withholding retaining during those 90 days, are they not finally complete until the end of those 90 days?
Response: Note #10 has been revised to 30 days. All plant material shall be installed at the time of substantial completion.
- k. Note 15, we have seed, no sod. Measured by the SY, why is it necessary for the contractor to do their own SF takeoffs?
Response: Per the bid schedule, there is 20,170 SY of sod. Note 15 has been revised.
- l. Note 16, I don't see any sprinkler specs to address the irrigation requirements.
Response: Note 16 has been deleted.
- m. Note 17, contains an incomplete sentence.
Response: Note 17 has been revised.

Sheet 12 – Stormwater Notes

- n. Note 11 & 12, delete "is responsible for" and state that the Contractor shall.
Response: The requested notes have been revised as requested.

Sheet 17 - Potable Water Construction Standards

- o. Note 1, be aware that the GC's define a day as a calendar day. Plans and specs take precedence but this could cause some confusion.
Response: This note pertains to clearance of water mains and is a City Standard note required by the utilities division.
- p. Clarification regarding electrical Pay Items.

Response: Typical bid items are formatted as (#) #” HDPE w/ Interduct Concrete Encased. For example, Bid Item 41 is described as 50 LF (3) 4” HDPE w/ Interduct. This is intended to be a system of 3-4” HDPE pipes, therefore for this bid item, the total length of 4” pipe needed to install the system is (3) * 50 LF=150 LF total.

All other terms and conditions remain the same.

Bidders shall acknowledge receipt of this addendum in the Bid Proposal Letter.

The City of Daytona Beach

Joanne Flick, CPPO, CPPB
Purchasing Agent

FIRST STEP HOMELESS ASSISTANCE SHELTER - PHASE 1**ADDENDUM 2 - REVISED - BID ITEM SCHEDULE****Summary of Paving & Drainage Pay Items**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
1	Mobilization (Max 5%)	1	LS	\$	\$
2	Remobilization (Max 5%)	1	EA	\$	\$
3	Grubbing	10.35	AC	\$	\$
4	Earthwork	10,500	CY	\$	\$
5	Import Fill			\$	\$
6	Bahia Sod	20,170	SY	\$	\$
7	Maintenance of Traffic	1	LS	\$	\$
8	Striping & Signage	1	LS	\$	\$
9	Concrete Wheel Stops	48	EA	\$	\$
10	15" RCP	60	LF	\$	\$
11	15" MES	2	EA	\$	\$
12	1 1/2" Type SP-9.5 Asphalt Surface Course	306	TN	\$	\$
13	6" Crushed Concrete Base (LBR 140) Compacted to 98% Density Per AASHTO T-180 Modified Proctor Test	6,103	SY	\$	\$
14	6" Compacted Sub Base, LBR 40 or FBV 75 PSI	6,103	SY	\$	\$
15	1" Type SP-9.5 Asphalt Surface Course (Traffic C)	46	TN	\$	\$
16	2" Type SP-12.5 Asphalt Structural Course (Traffic C)	92	TN	\$	\$
17	10" Crushed Concrete Base (LBR 140) Compacted to 98% Density Per AASHTO T-180 Modified Proctor Test	904	SY	\$	\$
18	12" Type B Stabilization, LBR 40	904	SY	\$	\$
19	6" Stabilized Shoulder, FBV 75 PSI	416	SY	\$	\$
20	6" Concrete 3500 PSI	1,573	SY	\$	\$
21	2' Environmental Curb	48	LF	\$	\$
22	Type F Curb	1,440	LF	\$	\$
23	Detectable Warning	11	EA	\$	\$
24	PVC Bleed Down	1	EA	\$	\$
25	Concrete Overflow Weir	1	EA	\$	\$
26	4" PVC Conduit	240	LF	\$	\$
27	6" PVC Conduit	480	LF	\$	\$
28	6' High Black Vinyl Coated Chain Link Fence	1,800	LF	\$	\$
29	24' Double Rolling Gate	2	EA	\$	\$
30	Bike Rack	3	EA	\$	\$
31	Flag Pole	1	EA	\$	\$
32	1,000 Gallon Propane Tank	1	LS	\$	\$
Paving & Drainage Sub-Total:					\$

FIRST STEP HOMELESS ASSISTANCE SHELTER - PHASE 1**ADDENDUM 2 - REVISED - BID ITEM SCHEDULE****Summary of Sanitary Sewer Pay Items**

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
33	8" PVC Gravity Sewer Pipe, DR-26	700	LF	\$	\$
34	8" Plug	1	EA	\$	\$
35	Sanitary Manhole	3	EA	\$	\$
36	6" PVC Gravity Sewer Pipe, DR-26	413	LF	\$	\$
37	6" Plug	3	EA	\$	\$
38	6" Cleanout	9	EA	\$	\$
39	6" Two Way Cleanout	2	EA	\$	\$
40	2,500 Gallon Grease Interceptor	2	EA	\$	\$

Sanitary Sewer Sub-Total: \$

Summary of Electrical Pay Items

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
41	(4) 4" HDPE w/ Interduct Concrete Encased	670	LF	\$	\$
42	(2) 4" HDPE w/ Interduct	70	LF	\$	\$
43	(3) 4" HDPE w/ Interduct	50	LF	\$	\$
44	(2) 2" HDPE w/ Interduct	140	LF	\$	\$
45	(1) 2" HDPE w/ Interduct	680	LF	\$	\$
46	(1) 1" HDPE w/ Interduct	350	LF	\$	\$
47	P.C. Concrete Pull Box	12	LF	\$	\$
48	(3) 3" HDPE w/ Interduct Concrete Encased	120	LF	\$	\$
49	(4) 3" HDPE w/ Interduct Concrete Encased (w/o Primary Service Feeder)	620	LF	\$	\$
50	(2) 3" HDPE w/ (1) 1 Inch HDPE	120	LF	\$	\$
51	(1) 1" HDPE	480	LF	\$	\$
52	(1) 1" HDPE w/ P.S.	2,040	LF	\$	\$
53	(2) 1" HDPE w/ P.S.	120	LF	\$	\$
54	(3) P.C. Concrete Pull Box	3	LF	\$	\$
55	Allowance for Misc. Items - Caps / Markers / Slabs	1	LS		\$

Electrical Sub-Total: \$

FIRST STEP HOMELESS ASSISTANCE SHELTER - PHASE 1**ADDENDUM 2 - REVISED - BID ITEM SCHEDULE****Summary of Building Foundation Pay Items**

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
56	Continuous Concrete Footing	160	CY	\$	\$
57	Concrete Pad Footing	14	CY	\$	\$
58	Steel Rebar at Continuous Footing	8.8	TN	\$	\$
59	Steel Rebar at Pad Footing	1.2	TN	\$	\$
60	Dumpster Enclosure (1) w/ Pad / Bollards / Gates	1	EA	\$	\$
61	6" Thick Reinforced Concrete (2) pads at Pods	2	EA	\$	\$
62	Monument Sign	1	EA	\$	\$

Building Foundation Sub-Total: \$ _____

Summary of Water Pay Items

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
63	12" DIP Water Main	355	LF	\$	\$
64	10" DIP Water Main	912	LF	\$	\$
65	8" DIP Water Main	10	LF	\$	\$
66	6" DIP Water Main	710	LF	\$	\$
67	3" PVC DR-21	383	LF	\$	\$
68	3" Service Tap with Valve and Reduced Pressure Backflow Preventer	1	EA	\$	\$
69	Fire Hydrant with Valve	3	EA	\$	\$
70	Fire Department Connection	1	EA	\$	\$
71	3" Valve	3	EA	\$	\$
72	3" Plug	2	EA	\$	\$
73	12" x 6" Tee	1	EA	\$	\$
74	12" Valve	1	EA	\$	\$
75	12" Plug	1	EA	\$	\$
76	10" x 6" x 10" Tee DIP	2	EA	\$	\$
77	10" Valve DIP	2	EA	\$	\$
78	10" DIP 45° Bend	1	EA	\$	\$
79	2" Blow Off Assembly	1	EA	\$	\$
80	10" x 6" Reducer	1	EA	\$	\$
81	10" x 8" Reducer	2	EA	\$	\$
82	8" Reduced Pressure Backflow Preventer	1	EA	\$	\$
83	6" Check Valve	1	EA	\$	\$
84	6" Post Indicator Valve	1	EA	\$	\$

Water Sub-Total: \$ _____

FIRST STEP HOMELESS ASSISTANCE SHELTER - PHASE 1

ADDENDUM 2 - REVISED - BID ITEM SCHEDULE

Summary of Soil Erosion & Sediment Control Pay Items

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
85	Staked Silt Fencing	2,820	LF	\$ _____	\$ _____
86	Gravel Construction Entrance	1	EA	\$ _____	\$ _____
87	Landscape	1	LS	\$ _____	\$ _____
88	Seed and Mulch	6,000	SY	\$ _____	\$ _____

Soil Erosion & Sediment Control Sub-Total: \$ _____

Base Bid Total - (Items 1 - 88): \$ _____

Add Alternate - A

<u>ITEM</u>	<u>ITEM DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
1	8 FT. High Black Vinyl Coated Chain Link Fence (Includes Gates)	968	LF	\$ _____	\$ _____

(Base Bid and Add Alternate - A) Grand Total: \$ _____

Contractor's Name: _____

Contractor's Address: _____

Contractor's Signature: _____

Printed Name: _____

SECTION 01025
MEASUREMENT AND PAYMENT

PART 1 – GENERAL REQUIREMENTS

1.1 SUMMARY

- A. Explanation of the Measurement and Payment for the bid and pay items is made for information and guidance. The omission of reference to any item in this description shall not, however, alter the intent of the bid form or relieve the CONTRACTOR of the necessity of furnishing such as part of the contract.
- B. Payment shall be made for the items listed on the Bid Schedule on the basis of the work actually performed and completed to the configuration and extent shown on the Drawings, described in the specifications, noted in the construction plans, noted in the Summary of Pay Items and on the Summary of Quantity sheet.
- C. The quantities set forth in the Bid Schedule are approximate and are given to establish a uniform basis for the comparison of bids. The Owner reserves the right to increase or decrease the quantity of any class or portion of the work during the progress of construction in accordance with the terms of the contract.
- D. Unit prices are used as a means of computing the final figures for bid and contract purposes, for periodic payments for work performed, for determining value of additions or deletions and wherever else reasonable.
- E. Measurement and payment for bid/pay items with a Florida Department of Transportation (FDOT) pay item number noted in their description shall be in accordance with referenced FDOT requirements and any modifications that are shown in the description.

1.2 COSTS INCLUDED IN PAYMENT ITEMS

- A. No separate payment will be made for the following items. The cost of such work shall be included in the unit price of applicable pay items listed in the Bid Schedule unless otherwise noted in the construction plans:
 - 1. Trench and roadway excavation, including removal of unsuitable soils and unsuitable materials of any nature unless otherwise specified.
 - 2. Any material or equipment required to be installed and utilized for tests.
 - 3. Concrete encasement.
 - 4. Maintaining the existing quality of service during construction.

01025-1

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5. Cleanup.
6. Structural fill, backfill, pipe bedding and compacted granular material.
7. Paved and unpaved roadway restoration or replacement including but not limited to all disturbed improvements within the right of way, adjacent traffic signal system components included within the limits of lump sum work, unless otherwise specified.
8. Shoring, sheeting and worksite safety.
9. Field offices.
10. Job signs.
11. Sanitary and potable water supplies.
12. Power.
13. Watchmen.
14. Bonds and Insurance.
15. Any and all Geotechnical testing of backfill, subgrade base material, asphalt and concrete.
16. Testing/Quality Control
17. Dewatering
18. Tracer Wire and Tape
19. Pigging and Pressure Testing
20. Chlorination

PART 2 – PRODUCTS

(Not Applicable, See General Conditions)

PART 3 – EXECUTION

3.1 BID ITEMS

BASE BID

1. Mobilization (Max 5%)

Definition. Mobilization shall be the preparatory work and operations in mobilizing for beginning work on the project, including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site, and for the establishment of temporary offices, storage buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by the Contract Documents and applicable laws and regulations. The costs of bonds, required insurance, permits and any other preconstruction expense necessary for the start of the work, excluding the cost of construction materials, shall also be included in this item.

Payment. Partial payments for this item shall be made in accordance with the following schedule:

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Percent of Original Contract Amount Earned	Allowable Percent of the Lump Sum Price for the Item
After Contract Execution	10
10	25
25	50
50	75
100	100

2. Remobilization (Max 5%)

Definition. Remobilization shall be the preparatory work and operations in returning to begin work after having left the jobsite. The purpose of this bid item is to provide a mechanism for payment associated with coordinating with the Phase 2 General Contractor. The remobilization shall include, but not limited to, those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site, and for the establishment of temporary offices, storage buildings, safety equipment and first aid supplies, sanitary and other facilities, as required by the Contract Documents and applicable laws and regulations. The costs of bonds, required insurance, permits and any other preconstruction expense necessary for the start of the work, excluding the cost of construction materials, shall also be included in this item. The quantity for payment shall be on a per each basis that remobilization “is required”.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for remobilization, as shown on the Contract Drawings.

3. Grubbing

Measurement. The quantity for payment shall be on a per Acre basis.

Payment. Payment of the applicable unit price per acre shall be full compensation for furnishing all labor, material and equipment required for grubbing the stormwater ponds, parking lots, building pads and roadway as shown on the plans. No separate payment shall be made for transporting and disposing of tree including stumps and other debris. Note: Much of the site has already been grubbed, however, any additional grubbing required, to ensure removal of all trees/stumps & underbrush within the development footprint shall be paid under this line item.

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4. **Earthwork**

Measurement. The quantity for payment shall be on a Lump Sum basis.

Payment. Payment of the applicable Lump Sum price shall be full compensation for furnishing all labor, material and equipment required for earthwork as shown on the contract drawings including, but not limited to excavating, cutting, filling, dewatering, grading to the design elevations, and testing. All placed fill to be compacted to 98% density per AASHTO T-180 modified proctor test as shown on the contract drawings.

5. **Imported Fill**

Measurement. The quantity for payment shall be on a Cubic Yard basis.

Payment. Payment of the applicable unit price per cubic yard shall be full compensation for furnishing all labor, material and equipment required to Impact Fill in order to achieve the design elevations as shown on the contract drawings.

6. **Bahia Sod**

Measurement. The quantity for payment shall be on a Square Yard basis.

Payment. Payment of the applicable unit price per square yard shall be full compensation for supplying all labor, materials and equipment necessary for Bahia Sod, as shown on the Contract Drawings.

7. **Maintenance of Traffic**

Measurement. The quantity for payment shall be on a Lump Sum basis.

Payment. Payment of the applicable unit price per lump sum shall be full compensation for furnishing all plant, labor, materials and equipment necessary to provide the maintenance of traffic (MOT) required by the Florida Department of Transportation and the City of Daytona Beach. The maintenance of traffic shall follow the Contract Documents and the MOT detail Drawings.

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8. Striping and Signage

Measurement. The quantity for payment shall be on a Lump Sum basis.

Payment. Payment of the applicable unit price per lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the Striping & Signage, as shown on the Contract Drawings. All striping both onsite and within the FDOT right-of-way shall be included within this pay item.

9. Concrete Wheel Stops

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Concrete Wheel Stops, as shown on the Contract Drawings.

10. 15" RCP

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 15" RCP, as shown on the Contract Drawings.

11. 15" MES

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each 15" MES shall be full compensation for supplying all labor, materials and equipment necessary for installation of the 15" MES, as shown on the Contract Drawings.

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12. 1 1/2" Type SP-9.5 Asphalt Surface Course

Measurement. The quantity for payment shall be the actual amount of asphalt as measured by tonnage that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per ton shall be full compensation for supplying all labor, materials and equipment necessary for installation the 1 1/2" Type SP-9.5 Asphalt Surface Course, as shown on the Contract Drawings.

13. 6" Crushed Concrete Base (LBR 140) Compacted to 98% Density Per AASHTO T-180 Modified Proctor Test

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yard shall be full compensation for supplying all labor, materials and equipment necessary for installation of the 6" Crushed Concrete Base (LBR 140) Compacted to 98% Density per AASHTO T-180 Modified Proctor Test, as shown on the Contract Drawings.

14. 6" Compacted Sub Base, LBR 40 or FBV 75 PSI

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yard shall be full compensation for supplying all labor, materials and equipment necessary for installation of the 6" Compacted Sub Base, LBR-40 or FBV 75 PSI, as shown on the Contract Drawings.

15. 1" Type SP-9.5 Asphalt Surface Course (Traffic C)

Measurement. The quantity for payment shall be the actual amount of asphalt as measured by tonnage that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per ton shall be full compensation for supplying all labor, materials and equipment necessary for installation the 1" Type SP 9.5 Asphalt Surface Course (Traffic C), as shown on the Contract Drawings.

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16. 2" Type SP-12.5 Asphalt Surface Course (Traffic C)

Measurement. The quantity for payment shall be the actual amount of asphalt as measured by tonnage that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per ton shall be full compensation for supplying all labor, materials and equipment necessary for installation the 2" Type SP 12.5 Asphalt Surface Course (Traffic C), as shown on the Contract Drawings.

17. 10" Crushed Concrete Base (LBR 140) Compacted to 98% Density Per AASHTO T-180 Modified Proctor Test

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yard shall be full compensation for supplying all labor, materials and equipment necessary for installation of the 10" Crushed Concrete Base (LBR 140) Compacted to 98% Density per AASHTO T-180 Modified Proctor Test, as shown on the Contract Drawings.

18. 12" Type B Stabilized LBR 40

Measurement. The quantity for payment shall be the number of Square Yard that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yard shall be full compensation for supplying all labor, materials and equipment necessary for installation of the 12" Type Stabilized LBR 40, as shown on the Contract Drawings.

19. 6" Stabilized Shoulder, FBV 75 PSI

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yard shall be full compensation for supplying all labor, materials and equipment necessary for installation of the 6" Stabilized Shoulder, FBV 75 PSI, as shown on the Contract Drawings.

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20. 6' Concrete 3500 PSI

Measurement. The quantity for payment shall be the number of Square Yards that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per square yard shall be full compensation for supplying all labor, materials and equipment necessary for installation of the 6' Concrete 3500 PSI, as shown on the Contract Drawings.

21. 2' Environmental Curb

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 2' Environmental Curb, as shown on the Contract Drawings.

22. Type "F" Curb

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Type "F" Curb, as shown on the Contract Drawings.

23. Detectable Warning

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Detectable Warning, as shown on the Contract Drawings.

01025-8

Rev. 04-17-18

24. PVC Bleed Down

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the PVC Bleed Down, as shown on the Contract Drawings.

25. Concrete Overflow Weir

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Concrete Overflow Weir, as shown on the Contract Drawings.

26. 4" PVC Conduit

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 4" PVC Conduit, as shown on the Contract Drawings.

27. 6" PVC Conduit

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" PVC Conduit, as shown on the Contract Drawings.

01025-9

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28. 6' High Black Vinyl Coated Chain Link Fence

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6' High Black Vinyl Coated Chain Link Fence, as shown on the Contract Drawings.

29. 24' Double Rolling Gate

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 24' Double Rolling Gate, as shown on the Contract Drawings.

30. Bike Rack

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Bike Rack capable of locking 9 bikes, as shown on the Contract Drawings.

31. Flag Pole

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Flag Pole, as shown on the Contract Drawings.

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32. 1,000 Gallon Propane Tank

Measurement. The quantity for payment shall be on a Lump Sum basis.

Payment. Payment of the applicable unit price per lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the 1,000 gallon propane tank, as shown on the Contract Drawings.

33. 8" PVC Gravity Sewer Pipe, DR-26

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8" PVC Gravity Sewer Pipe, DR-26, as shown on the Contract Drawings.

34. 8" Plug

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8" Plugs, as shown on the Contract Drawings.

35. Sanitary Manhole

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Sanitary Manhole, as shown on the Contract Drawings.

36. 6" PVC Gravity Sewer Pipe, DR-26

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" PVC Gravity Sewer Pipe, DR-26, as shown on the Contract Drawings.

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37. 6' Plug

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Plugs, as shown on the Contract Drawings.

38. 6' Cleanout

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Cleanout, as shown on the Contract Drawings.

39. 6" Two Way Cleanout

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Two Way Cleanout, as shown on the Contract Drawings.

40. 2,500 Gallon Grease Interceptor

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 2,500 Gallon Grease Interceptor, as shown on the Contract Drawings.

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41. (4) 4" HDPE w/ Interduct Concrete Encased

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (4) 4" HDPE Interduct Concrete Encased, as shown on the Contract Drawings.

42. (2) 4" HDPE w/ Interduct

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (2) 4" HDPE Interduct, as shown on the Contract Drawings.

43. (3) 4" HDPE w/ Interduct

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (3) 4" HDPE w/ Interduct, as shown on the Contract Drawings.

44. (2) 2" HDPE w/ Interduct

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (2) 2" HDPE w/ Interduct, as shown on the Contract Drawings.

45. (1) 2" HDPE w/ Interduct

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (1) 2" HDPE w/ Interduct, as shown on the Contract Drawings.

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46. (1) 1" HDPE w/ Interduct

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (1) 1" HDPE w/ Interduct, as shown on the Contract Drawings.

47. P.C. Concrete Pull Box

Measurement. The quantity for payment shall be on an Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the P.C. Concrete Pull Box, as shown on the Contract Drawings.

48. (3) 3" HDPE w/ Interduct Concrete Encased

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (3) 3" HDPE w/ Interduct Concrete Encased, as shown on the Contract Drawings.

49. (4) 3" HDPE w/ Interduct Concrete Encased (w/o Primary Service Feeder)

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (4) 3" HDPE w/ Interduct Concrete Encased (w/o Primary Service Feeder), as shown on the Contract Drawings.

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50. (2) 3" HDPE w/ (1) 1 Inch HDPE

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (2) 3" HDPE w/ (1) 1 Inch HDPE, as shown on the Contract Drawings.

51. (1) 1" HDPE

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (1) 1" HDPE, as shown on the Contract Drawings.

52. (1) 1" HDPE w/ P.S.

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (1) 1" HDPE w /P.S., as shown on the Contract Drawings.

53. (2) 1" HDPE w/ P.S.

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (2) 1" HDPE w /P.S., as shown on the Contract Drawings.

54. (3) P.C. Concrete Pull Box

Measurement. The quantity for payment shall be on an Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the (3) P.C. Concrete Pull Box, as shown on the Contract Drawings.

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55. Allowance for Misc. Items – Caps / Markers / Slabs

Measurement. The quantity for payment shall be on a Lump Sum basis.

Payment. Payment of the applicable unit price per lump sum shall be full compensation for supplying all labor, materials and equipment necessary for Allowance for Misc. – Caps / Markers / Slabs, as shown on the Contract Drawings.

56. Continuous Concrete Footing

Measurement. The quantity for payment shall be on a Cubic Yard basis.

Payment. Payment of the applicable unit price per cubic yard shall be full compensation for furnishing all labor, material and equipment required for Continuous Concrete Footing as shown on the contract drawings.

57. Concrete Pad Footing

Measurement. The quantity for payment shall be on a Cubic Yard basis.

Payment. Payment of the applicable unit price per cubic yard shall be full compensation for furnishing all labor, material and equipment required for Concrete Pad Footing as shown on the contract drawings.

58. Steel Rebar at Continuous Footing

Measurement. The quantity for payment shall be the actual amount of Steel Rebar at Continuous Footing as measured by tonnage that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per ton shall be full compensation for supplying all labor, materials and equipment necessary for installation the Steel Rebar at Continuous Footing, as shown on the Contract Drawings.

59. Steel Rebar at Pad Footing

Measurement. The quantity for payment shall be the actual amount of Steel Rebar at Pad Footing as measured by tonnage that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per ton shall be full compensation for supplying all labor, materials and equipment necessary for installation the Steel Rebar at Pad Footing, as shown on the Contract Drawings.

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60. Dumpster Enclosure (1) w/ Pad / Bollards / Gates

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Dumpster Enclosure (1) w/ Pad / Bollards / Gates, as shown on the Contract Drawings.

61. 6" Thick Reinforced Concrete (2) Pads at Pods

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Thick Reinforced Concrete (2) Pads at Pods, as shown on the Contract Drawings.

62. Monument Sign

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Monument Sign, as shown on the Contract Drawings.

63. 12" DIP Water Main

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12" DIP Water Main, as shown on the Contract Drawings.

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64. 10" DIP Water Main

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 10" DIP Water Main, as shown on the Contract Drawings.

65. 8" DIP Water Main

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8" DIP Water Main, as shown on the Contract Drawings.

66. 6" DIP Water Main

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" DIP Water Main, as shown on the Contract Drawings.

67. 3" PVC DR-21

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 3" PVC DR-21, as shown on the Contract Drawings.

68. 3" Service Tap with Valve and Reduced Pressure Backflow Preventer

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 3" Service Tap with Valve and Reduced Pressure Backflow Preventer, as shown on the Contract Drawings.

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69. Fire Hydrant with Valve

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Fire Hydrant with Valve, as shown on the Contract Drawings.

70. Fire Department Connection

Measurement. The quantity for payment shall be on a per Each basis of Fire Department Connections that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Fire Department Connections, as shown on the Contract Drawings.

71. 3" Valve

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 3" Valves, as shown on the Contract Drawings.

72. 3" Plug

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 3" Plugs, as shown on the Contract Drawings.

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73. 12" x 6" Tee

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12" x 6" Tee, as shown on the Contract Drawings.

74. 12" Valve

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12" Valve, as shown on the Contract Drawings.

75. 12" Plug

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 12" Plug, as shown on the Contract Drawings.

76. 10" x 6" x 10" Tee DIP

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 10" x 6" x 10" Tee DIP, as shown on the Contract Drawings.

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77. 10" Valve DIP

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 10" Valve DIP, as shown on the Contract Drawings.

78. 10" DIP 45° Bends

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 10" DIP 45° Bends, as shown on the Contract Drawings. All forcemain fittings shall be lined. No separate payment shall be made for lining of the fittings.

79. 2" Blow Off Assembly

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 2" Blow Off Assembly, as shown on the Contract Drawings.

80. 10" x 6" Reducer

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 10" x 6" Reducer, as shown on the Contract Drawings.

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81. 10" x 8" Reducer

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 10" x 8" Reducer, as shown on the Contract Drawings.

82. 8" Reduced Pressure Backflow Preventer

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8" Reduced Pressure Backflow Preventer, as shown on the Contract Drawings.

83. 6" Check Valve

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Check Valve, as shown on the Contract Drawings.

84. 6" Post Indicator Valve

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 6" Indicator Valve, as shown on the Contract Drawings.

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85. Staked Silt Fence

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Staked Silt Fence, as shown on the Contract Drawings.

86. Gravel Construction Entrance

Measurement. The quantity for payment shall be on a per Each basis that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per each shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the Gravel Construction Entrances, as shown on the Contract Drawings.

87. Landscape

Measurement. The quantity for payment shall be on a Lump Sum basis.

Payment. Payment of the applicable unit price per lump sum shall be full compensation for supplying all labor, materials and equipment necessary for the Landscape, as shown on the Contract Drawings.

88. Seed and Mulch

Measurement. The quantity for payment shall be on a Square Yard basis.

Payment. Payment of the applicable unit price per square yard shall be full compensation for supplying all labor, materials and equipment necessary for Seed and Mulch, as shown on the Contract Drawings.

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ADD ALTERNATE - A:

1. 8 FT. High Black Vinyl Coated Chain Link Fence (Includes Gates)

Measurement. The quantity for payment shall be the number of Linear Foot that are satisfactorily furnished and installed.

Payment. Payment of the applicable unit price per linear foot shall be full compensation for supplying all labor, materials and equipment necessary for the installation of the 8 FT. High Black Vinyl Coated Chain Link Fence (includes Gates), as shown on the Contract Drawings.

END OF SECTION

01025-24

Rev. 04-17-18