

**Loxahatchee River District
Jupiter Inlet Lighthouse
Septic to Sewer Conversion**

Addendum Number 3

January 25, 2022

The following clarifications and modifications are hereby made to the bidding documents for the above referenced project.

Acknowledge receipt of the addendum by inserting its number on Page 17 of the bid. Failure to do so may subject the bidder to disqualification.

Item 3-1 **REVISE** Instructions to Bidders, Article I, Item 9, Execution of Contract to read as follows “When the District gives a Notice of Award to the Successful Bidder, it shall be accompanied by the required number of unsigned counterparts of the Contract and all other written Contract Documents. Within fifteen calendar (15) days thereafter, Contractor shall sign and deliver the counterparts of the Contract and other written Contract Documents to the District with the required bonds and insurance certificates. Within fifteen calendar (15) days thereafter, the District shall deliver one fully signed counterpart to Contractor. Each counterpart is to be accompanied by a complete set of the appropriately identified Plans and Specifications. Following execution of the Contract by the District, the construction schedule shall be modified to begin upon the execution of the Contract by both Parties of the Contract.”

Item 3-2 **REPLACE** the bid form with the revised bid form attached.

Item 3-3 **REPLACE** Section 01200 Measurement and Payment with the revised Section 01200 Measurement and Payment attached.

Item 3-4 The following are questions asked after the pre-bid and the corresponding answers. As the deadline for questions has now passed, no further questions will be answered via addendum.

Questions

- 1. Could you provide the engineers estimate/budget for the above referenced project?**

The engineer’s estimate for this project is approximately \$1,300,000.00

- 2. Bid docs state “owner to furnish lift station”. Which components will the owner be furnishing and which ones will the contractor still be responsible for?**

Wetwell, valve vault, hatches, discharge piping, pumps, pump bases, rails, brackets, and control panel shall be furnished by the Owner for installation by the Contractor. Contractor shall be responsible for miscellaneous hardware and labor required for complete and successful installation of the pumps and pump accessories and furnishing and installing the concrete pad.

- 3. Bid docs state “installation of 3 lower pressure grinder stations” 1. Who is supplying them? 2. Where are the 3 low pressure Grinder Stations being installed?. 3. Where are they getting fed from?**

The District will be furnishing the low-pressure grinder stations. They are being installed as shown on Sheet C-3 of the engineering plans. They will be collecting flows from Units G, H, and I as shown on the plans. The Contractor will be responsible for the installation of the electrical feed from the existing panel at the Unit to the electrical disconnect box at the low pressure grinder station.

- 4. Will LRD be providing a spot for disposal of excess fill or will the contractor be responsible for the cost of off-site disposal?**

All excess fill will be the responsibility of the Contractor.

- 5. Will LRD be providing a disposal site for pumped materials in the grey water and septic tanks or will the contractor be responsible for the cost of off-site disposal?**

The pumped materials from the grey water and septic tanks may be brought to the District’s wastewater treatment facility located at 2500 Jupiter Park Drive, Jupiter, FL 33458 for disposal.

- 6. PAY ITEM NO. 53 – FPL UNDERGROUND INSTALLATION states that “The Contract Unit Price for this item shall constitute full compensation for all labor, materials, equipment and incidentals necessary to transport all materials from the FPL storage site to the project and install transformer pads, conduit, pull boxes and incidentals for conversion of FPL power from overhead to underground as shown on FPL plans in Appendix E. Typically**

FPL installs their own transformer pads. Will the contractor be installing these for this project?

The Contractor will be responsible for installing the transformer pads.

7. What is the thickness of the existing asphalt that is to be removed?

Please refer to the geotechnical report provided in Appendix D. Based upon the borings in the report, the existing asphalt thickness ranges from 1 to 4 inches.

8. Please, provide contact information for both FPL and Comcast representatives with specific knowledge of this project.

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Construction Specialist 2
Comcast Cable
3960 RCA Blvd. Ste 6002
Palm Beach Gardens, FL 33410
Miya_fisher@comcast.com
Office (561) 815-6633

Vaughn Moncrieffe
Vaughn.moncrieffe@fpl.com
561-575-6335

9. Please advise whether or not the materials for this project are subject to the American Iron and Steel (AIS) requirements or Buy America requirements.

The materials for this project are not subject to the American Iron and Steel or Buy America requirements.

10. The water & sewer infrastructure industry is under a “Force Majeure” situation due to the continuous and significant price increases along with extremely long lead times for all the piping materials, fittings, valves, etc. All these products are experiencing rapid price increases and material shortages with extended lead times mainly caused by the worldwide disruption of the supply chains caused by the COVID 19 pandemic. The material suppliers are not committing to holding prices/quotations and have implemented a policy of “pricing to be determined at time of shipment and subject to availability”. These are unprecedented times that appear to be here well into 2022. How this Force Majeure situation will be addressed by the City? The Contractor should be compensated for both time and cost since we cannot secure pricing and lead

time for the piping materials, fittings, valves, etc. needed to construct this project. Please advise.

In addition to the District, there are numerous other municipalities and agencies currently bidding water and sewer infrastructure projects with no stipulations. No changes will be made to the current contract documents.

- 11. Bid form item #9 – 4' Manhole (6'-8') – Quantity stated (1). Actual take off quantity and confirmed on existing plans – (2) for a revised total manhole count of (7), not (6) as currently stated in bid form.**

Please refer to the revised bid form which is attached to this addendum.

- 12. Missing bid item – “install backflow preventer per detail CC-1 on sheet SD-5” – Plan sheet C-8 does not have a corresponding bid item number.**

Please note that this note should refer to detail CC-5 not CC-1. A line item has been added to the bid form. Please refer to the attached revised bid form and Section 1200 Measurement and Payment.

- 13. Bid form item #24 – 6” PVC Water Main. I was wondering if a section of this installation could be installed via directional bore to minimize potential impact on existing trees. The section I am referencing is on plan sheet 7 & 10. And is approximately 330 LF in length. Let me know if a directional bore for this section of 6” water main is an acceptable installation option?**

Directional bores are permissible as long as an 8” HDPE SDR 11 main is utilized such that an inside diameter of 6-inches or greater is provided.

- 14. Note 13 on C-9 states that no impact to root zones will be allowed. The gravity sewer run between manhole 3 and 4 is proposed to be < 5’ from one banyan tree and < 10’ from another. The roots will be impacted by this sewer installation. Please clarify how the contractor is to install without affecting the root zones.**

As stated in the same note, any roots that are affected shall require all roots to be pruned with sanitized equipment, resulting in clean cuts and not shorn, jagged edges.

15. Note 13 on C-9 states that no tree branch impact will be allowed. The proposed asphalt removal and retention pond construction between STA 68+00 to 69+28 has several large trees and bushes that area overhanging the existing road and will be impacted during the construction activities. Please clarify how the contractor is to install without affecting these branches.

As stated in the same note, any affected branches must be pruned by an ISA certified arborist in conformance with Town of Jupiter requirements and ANSI A300 standards.

16. Will there be any site access restrictions for the contractor during construction?

There are no site access restrictions, however the Jupiter Inlet Lighthouse is open to the public for tours on Tuesdays through Sunday from 10 am until 4 pm. The Contractor shall make sure that the operations of the Lighthouse are not impacted by the construction activities.

17. There is a proposed 6" PVC water main running from STA 58+00 to 61+00 that runs under large landscaped area between the paver footpath and the fencing. Is it the design intent to remove this landscaping to install the PVC water main?

Any landscaping disturbed shall be restored to pre-work conditions. As noted in the response to question #13, directional bores are permissible as long as an 8" HDPE SDR 11 main is utilized such that an inside diameter of 6-inches or greater is provided.

18. Could the District provide any information on the size of the septic tanks to be abandoned and the grey water tanks to be removed?

All available information regarding the existing septic tanks and grey water tanks has been provided.

19. Does the District have a quote for the installation for the FPL and Comcast lines that could be provided to the contractor to assist with our bid of these items? If not could the District consider changing these items to allowances?

The measurement and payment items for these items have been revised to help clarify the Contractor's scope of work. Please refer to the descriptions for Pay Items No.53 and No. 54 in the revised Section 1200 Measurement and Payment.

20. Once the FPL and Comcast lines have been relocated who is responsible for the removal of the poles?

The Contractor will be responsible for the removal of the poles.

21. For Bid Item 44 Turf Reinforcement Mat the C350 does not meet FDOT Type E-5 (Plastic Erosion Mat Type 3). If you need FDOT APL with the approved products list I can provide it.

Section 02630 Storm Drainage **REMOVE** Section 2.04 B “TRM shall be North American Green Vmax C350 or engineer approved equal.” and **REPLACE** with “TRM shall be on the FDOT Approved products list.”

22. For Item 50 and 51 which is more or less an allowance item should the engineer provide that number to us.

The Contractor shall utilize the Tree & Shrubbery Restoration and Miscellaneous Restoration bid items to cover the Contractor’s costs for items that are not covered in the other bid items. No allowance will be provided.

23. For the project above I asked for clarification for bid item 53 and 54 so that we would know what we are pricing and how much. The reply that came back was to look at the plans which only give the location of the transfer pads and there is nothing at all about the conduit on where it gets installed and how many runs of each. It also refers you to go to section 01200 to get the answers which doesn’t give you no information at all.

In addition to the plans, please refer to Appendix E of the contract documents which contains the FPL plans and Appendix F which contains the Comcast plans.

END OF ADDENDUM 3

BID FORM — BASE BID
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
JUPITER INLET LIGHTHOUSE SEPTIC TO SEWER CONVERSION
UNIT PRICES

ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
General/Permit					
1	MOBILIZATION, DEMOBILIZATION, BONDS & INSURANCE	1	LS		
2	MAINTENANCE OF TRAFFIC	1	LS		
3	AS-BUILT RECORD DRAWINGS	1	LS		
4	AUDIO VIDEO DOCUMENTATION	1	LS		
5	NPDES PERMIT/EROSION MEASURES	1	LS		
Gravity Sewer and Sanitary Services					
6	8" PVC SANITARY SEWER PIPE (0' - 6')	970	LF		
7	8" PVC SANITARY SEWER PIPE (6' - 8')	500	LF		
8	4' MANHOLE (0' - 6')	5	EA		
9	4' MANHOLE (6' - 8')	2	EA		
10	4" PVC LATERAL - SINGLE SERVICE W/ CLEAN-OUT	5	EA		
11	6" PVC LATERAL - DOUBLE SERVICE W/CLEANOUT	1	EA		
Low Pressure Sewer and Pump Stations					
12	2" PVC FORCE MAIN AND FITTINGS	310	LF		
13	2" HDPE FORCE MAIN AND FITTINGS	670	LF		
14	1.5 SINGLE LOW-PRESSURE SERVICE	3	EA		
15	INSTALL COMMERCIAL (DUPEX) GRINDER PUMP STATION AND FURNISH AND INSTALL CONCRETE PAD	1	LS		
16	INSTALL SIMPLEX GRINDER PUMP STATION	3	EA		
17	INSTALL 6' CHAIN LINK FENCE	50	LF		
18	CHAIN LINK GATE	1	EA		
19	CONNECT 2" PVC FORCE MAIN TO EXISTING 2" FORCE MAIN	1	EA		
20	TERMINAL FLUSHING PORT	1	EA		
21	INLINE FLUSHING PORT	1	EA		
22	AIR RELEASE VALVE	1	EA		

Water Main					
23	8" PVC WATER MAIN	1,750	LF		
24	6" PVC WATER MAIN	1,000	LF		
25	DUCTILE IRON FITTINGS	1	TN		
26	8" GATE VALVE	4	EA		
27	6" GATE VALVE	4	EA		
28	FIRE HYDRANT ASSEMBLY W/6" GATE VALVE	3	EA		
29	BLOWOFF ASSEMBLY	2	EA		
30	PRESSURE TESTING & CHLORINATING NEW WATER MAIN	2,750	LF		
31	SAMPLE POINTS	3	EA		
32	SINGLE WATER SERVICE	10	EA		
33	POTABLE IRRIGATION SERVICE	1	EA		
34	CUT, CAP AND GROUT EXISTING WATER MAIN	1	LS		
35	CONNECT TO EXISTING WATER METER	1	LS		
36	PRESSURE VACUUM BREAKER BACKFLOW PREVENTER	1	EA		
Site Improvements, Roadway, and Drainage					
37	12" STABILIZED SUBGRADE, LBR 40 MIX BASE WITH EXISTING SAND	240	SY		
38	REWORK COMPACTED SHELLROCK ROADWAYS AND DRIVEWAYS	4,400	SY		
39	COMPACTED SHELLROCK PARKING AREAS	220	SY		
40	WHEEL STOPS FOR PARKING AREA	9	EA		
41	INSTALL CONCRETE SIDEWALK	55	SY		
42	CLEARING AND GRUBBING	2	AC		
43	ABANDON EXISTING STORMWATER STRUCTURE	1	LS		
44	EXCAVATION AND GRADING	650	CY		
45	TURF REINFORCEMENT MAT	150	SY		
46	18" RCP STORMWATER PIPING	40	LF		
47	CATCH BASIN, DITCH BOTTOM INLET TYPE-C	2	EA		
48	PUMP OUT AND REMOVE GREY WATER TANK	10	EA		
49	PUMP OUT AND ABANDON SEPTIC TANK	11	EA		
50	SODDING	1	LS		
51	TREE & SHRUBBERY RESTORATION	1	LS		
52	MISCELLANEOUS RESTORATION	1	LS		

Underground Utility Installation					
53	LIFT STATION ELECTRICAL SERVICE	1	LS		
54	FPL UNDERGROUND INSTALLATION	1	LS		
55	COMCAST UNDERGROUND INSTALLATION	1	LS		
TOTAL					

TOTAL BASE BID, ITEMS 1-55 (in words) _____
Dollars

_____ Cents

THE CONTRACT AWARD SHALL BE EVALUATED BASED ON THE TOTAL BASE BID PRICE FOR ITEMS 1 THROUGH 55 AS SUBMITTED BY THE LOWEST, QUALIFIED, RESPONSIBLE, RESPONSIVE BIDDER.

(Name of Bidder)

Bidders Name: _____

By: _____
Signature of Authorized Officer, Partner, Member, Manager

Print Name of Person signing: _____

Title: _____

Business Address: _____

Incorporated or formed under the laws of the State of _____.

SECTION 01200

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. The Unit prices stated in the Contract shall be considered payment in full for the completion of all work. Payment shall be made under each item only for work as it is not specifically included under other items.
- B. The CONTRACTOR shall furnish all labor, equipment and material required to complete the construction that will provide a new sewer system and replacement of the potable water system at the Jupiter Inlet Lighthouse property. The sewer system includes gravity sewer piping, manholes, duplex grinder pump station, sewer services, and low-pressure force main. The potable water system will include 2” HDPE water main piping and services. The project also includes replacement of the existing asphalt roadway with a new shell rock roadway and parking areas.

1.02 PERFORMANCE

- A. Section generally defines unless otherwise indicated, the following:
 - 1. Payment item descriptions.
 - 2. Payment application descriptions.
- B. The cost of temporary facilities, bonds, insurance, attending project meetings, administration, record drawings, policing, and other general duties shall be considered incidental to all items.
- C. The OWNER may direct the CONTRACTOR to install certain portions of the work in advance of other portions without extra payment to the CONTRACTOR.

1.03 RELATED SECTIONS

- A. Notice to Contractors
- B. Article 1 - Instructions to Bidders.
- C. Article 2 - Bid Form.
- D. Article 4 – Contract.

E. Article 10 - General Conditions.

1.04 LUMP SUM ITEMS

A. The lump sum price shall be full compensation for all labor, materials and equipment to satisfactorily complete the installation of the items as shown on the plans and indicated in the details for lump sum bid items.

1.05 UNIT PRICE ITEMS

A. The ENGINEER or his representative shall determine the number of units of each work item installed.

1.06 SATISFACTORY COMPLETION

A. Satisfactory completion shall include dewatering, if any, and repair or replacement of damaged landscaping, irrigation systems, pavement or other existing improvements.

1.07 PAYMENT ITEMS

A. Unit Price Bid

1. Payment shall constitute summation of measured quantities multiplied by the respective unit price for items constructed as specified herein and shown on the engineering drawings; including installation and removal of all temporary facilities, piping; and supply of all incidental materials, equipment and labor necessary to complete the contemplated Work whether specifically identified herein or not.
2. Partial progress payments will be made at monthly intervals and will be based upon the value of the Work completed on the date that a partial payment application is submitted less deductions for retainage as defined elsewhere. Signed and Sealed Record Drawings shall be submitted and approved with each partial and final pay request.

1.08 PAYMENT APPLICATION DESCRIPTION

A. Preparation of Applications:

1. Present required information in type written form, or equivalent.
2. Execute certification by signature of authorized officer.
3. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed.

4. List each authorized Change Order as an extension on the Application for Payment, listing Change Order number and dollar amount as for an original item of Work.

B. Submittal Procedures

1. Submit three (3) copies of each Application for Payment.

Payment Period: Submit monthly as directed by the OWNER.

Submit signed and sealed record drawings covering work for which payment is being requested.

Submit revised progress schedule accurately reflecting the work completed and the schedule of future work items.

C. Substantiating Data

1. When OWNER requires substantiating information, submit data justifying dollar amounts in question.
2. Provide one (1) copy of data with cover letter of each copy of application. Show Application number and date, and line item by number and description on each piece of data.

PART 2 – PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 BID ITEM DESCRIPTIONS

A. PAY ITEM NO. 1 – MOBILIZATION/DEMobilIZATION

The Contract Lump Sum for this item shall constitute full compensation for mobilization, demobilization, general conditions, insurances, monthly photos, shop drawings, permits, temporary facilities, and bonding in accordance with the contract documents. The first payment shall not include mobilization / demobilization if the CONTRACTOR has not started work at the project site. Payment for this item shall be by Lump Sum (LS). Total cost of this item shall not exceed 10% of the total contract value.

B. PAY ITEM NO. 2 – MAINTENANCE OF TRAFFIC

The Contract Lump Sum for this item shall constitute full compensation for providing all necessary permits and traffic devices to maintain traffic during construction and restoration. Traffic devices may be in the form of barricades, personnel, lights, signs, temporary rock roadways, etc. All work shall be in accordance with all applicable Florida Department of Transportation specifications, and in accordance with the governing municipalities and other governing agencies. Payment for this item shall be by Lump Sum (LS).

C. PAY ITEM NO. 3 – AS-BUILT RECORD DRAWINGS

The Contract Lump Sum for this item shall constitute full compensation for providing a Professional Surveyor licensed in the State of Florida to perform as-built surveying including: signed and sealed record drawings; AUTOCAD record drawings and other items described in **Section 01720 - Record Documents**. Payment for record drawing information will be made upon completion of all required items in accordance with the requirements of the Contract Documents. Payment for record drawings will be processed after drawings are approved. No partial payments shall be made for record drawings. Payment for this item shall be by Lump Sum (LS).

D. PAY ITEM NO. 4 – AUDIO VIDEO DOCUMENTATION

The Contract Unit Price for this item shall constitute full compensation for providing, prior to start of construction, a video of the project by a professional video-taping service acceptable to the OWNER. The video may include all driveways, landscaping area, etc. for each side of the streets. The video should extend from right-of-way to right-of-way and 10' beyond. A copy of the video shall be turned over to the OWNER and ENGINEER for their use. Payment for this item shall be by Lump Sum (LS).

E. PAY ITEM NO. 5 – NPDES PERMIT/EROSION MEASURES

The Contract Lump Sum for this item shall constitute full compensation for establishing, constructing and maintaining erosion and sediment control measures. The erosion control programs shall be maintained during the entire period of construction, including any extensions in Contract time. Temporary erosion and pollution control shall include construction work off-site where such work is necessary as a result of borrow pit operations, haul roads or equipment storage sites, etc. This work shall also include the preparation of any required Stormwater Pollution Prevention Plan (SWPPP), including modifications and updates. The CONTRACTOR shall obtain and comply with all provisions of the State of Florida, Department of Environmental Protection, Permit for Stormwater Discharge from Large and Small Construction Activities (NPDES Construction Site Permit Program). Payment for this item shall be by Lump Sum (LS).

F. PAY ITEM NO. 6 – 8" PVC SANITARY SEWER PIPE (0' - 6')

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to furnish and install the 8-inch SDR-26 PVC sanitary sewer pipe (0' – 6' deep) as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the pipe trench, together with the disposal of all excess materials, bracing, and sheeting, the installation of the PVC pipe, pipe restraints, and tracer wire, the backfilling and compaction of the pipe trenches, density testing, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all time, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the sanitary sewer main. Item includes any dewatering necessary for installation of the piping. This work also includes repairs to irrigation systems damaged or removed during the construction activities and shall include piping, valves, heads, controls, conduit, boxes, wires, panels, etc. All irrigation systems shall be restored to the pre-existing condition or better. This item shall also include removal and proper restoration of miscellaneous items such as decorative landscaping, drainage culverts, irrigation piping, etc. Payment of this item shall be per Linear Foot (LF) installed.

G. PAY ITEM NO. 7 – 8" PVC SANITARY SEWER PIPE (6' - 8')

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to furnish and install the 8-inch SDR-26 PVC sanitary sewer pipe (6' – 8' deep) as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the pipe trench, together with the disposal of all excess materials, bracing, and sheeting, the installation of the PVC pipe, pipe restraints, and tracer wire, the backfilling and compaction of the pipe trenches, density testing, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all time, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the sanitary sewer main. Item includes any dewatering necessary for installation of the piping. This work also includes repairs to irrigation systems damaged or removed during the construction activities and shall include piping, valves, heads, controls, conduit, boxes, wires, panels, etc. All irrigation systems shall be restored to the pre-existing condition or better. This item shall also include removal and proper restoration of miscellaneous items such as decorative landscaping, drainage culverts, irrigation piping, etc. Payment of this item shall be per Linear Foot (LF) installed.

H. PAY ITEM NO. 8 – 4' MANHOLE (0' - 6')

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install 4' manholes (0' – 6'

deep) as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the manhole, disposal of all excess materials, bracing and sheeting, the installation of the coated manhole with frame and cover, the connection of the proposed sanitary sewer main to the proposed manhole, forming of the base including invert channel, mudding the manhole watertight, rock base, backfill and compaction, testing, supports, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all times, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the manhole. Item includes any dewatering necessary for installation of the manhole. Payment for this item shall be the actual number of Each (EA) manholes (0' – 6' deep) installed.

I. PAY ITEM NO. 9 – 4' MANHOLE (6' - 8')

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install 4' manholes (6' – 8' deep) as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the manhole, disposal of all excess materials, bracing and sheeting, the installation of the coated manhole with frame and cover, the connection of the proposed sanitary sewer main to the proposed manhole, forming of the base including invert channel, mudding the manhole watertight, rock base, backfill and compaction, testing, supports, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all times, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the manhole. Item includes any dewatering necessary for installation of the manhole. Payment for this item shall be the actual number of Each (EA) manholes (6' – 8' deep) installed.

J. PAY ITEM NO. 10 – 4" PVC LATERAL - SINGLE SERVICE W/ CLEAN-OUT

The Contract Unit Price for this item shall constitute full compensation for providing all labor, materials, equipment, and incidentals necessary to furnish and install PVC service piping, fittings, adapters, EMS markers, cleanouts, and any other appurtenances necessary to connect the single service to the sanitary sewer shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation and backfill thereof, together with the disposal of all excess materials, bracing and sheeting, the furnishing and compaction, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways at all times, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of sewer service lines, cleanout, and appurtenances. This item shall include all labor, materials, equipment, and incidentals necessary to connect the lateral to the existing structure as shown on the drawings, including any necessary

plumbing permits. Item includes any dewatering necessary for installation of the manhole. Payment for this item shall be the actual number of Each (EA) single short service installed.

K. PAY ITEM NO. 11 – 6" PVC LATERAL - DOUBLE SERVICE W/CLEANOUT

The Contract Unit Price for this item shall constitute full compensation for providing all labor, materials, equipment, and incidentals necessary to furnish and install PVC service piping, fittings, adapters, EMS markers, cleanouts, and any other appurtenances necessary to connect the single or double service to the 6-inch or 8-inch sanitary sewer service pipe shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation and backfill thereof, together with the disposal of all excess materials, bracing and sheeting, the furnishing and compaction, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways at all times, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of sewer service lines, cleanout, and appurtenances. This item shall include all labor, materials, equipment, and incidentals necessary to connect the lateral to the existing structure as shown on the drawings, including any necessary plumbing permits. Payment for this item shall be the actual number of Each (EA) double service installed.

L. PAY ITEM NO. 12 – 2" PVC FORCE MAIN AND FITTINGS

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to furnish and install PVC force main as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the pipe trench, together with the disposal of all excess materials, bracing, sheeting, and dewatering, the installation of the PVC pipe, fittings, pipe restraints, and trace wire, the backfilling and compaction of the pipe trenches, density testing, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all time, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the water main. This work also includes repairs to irrigation systems damaged or removed during the construction activities and shall include piping, valves, heads, controls, conduit, boxes, wires, panels, etc. All irrigation systems shall be restored to the pre-existing condition or better. This item shall also include removal and proper restoration of miscellaneous items such as decorative landscaping, drainage culverts, irrigation piping, etc. Payment of this item shall be per Linear Foot (LF) installed.

M. PAY ITEM NO. 13 – 2" HDPE FORCE MAIN AND FITTINGS

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete construction of a 2-inch HDPE water main installed via horizontal directional drill methods as shown on the construction Drawings, specified herein and as directed by the ENGINEER. This item includes, but is not limited to, surveying, erosion control, excavation, backfill, and compaction for entry and exit pits, maintenance of traffic, supporting and protecting existing utilities, dewatering, all pipe, fusing, drilling, reaming, slurry, pulling of pipe through the borehole, disposal of excess materials, frac-out control, pipe marking tape, tracer wire, tracer wire termination boxes, adapters, restoration of irrigation systems (irrigation piping, sprinkler heads, etc.), providing temporary restoration of roads, temporary restoration of structures, etc., and removal and disposal of sidewalks, driveways, asphaltic concrete, rock base and subgrade (including necessary sawcutting). Payment for this item is per linear foot (LF) of piping installed. Payment for this item will be from the end of the 2-inch pipe with the pulling head connected to it to the end of the last section of 2-inch pipe pulled as part of the HDD.

N. PAY ITEM NO. 14 – 1.5 SINGLE LOW PRESSURE SERVICE

The Contract Unit Price for this item shall constitute full compensation for providing all labor, materials, equipment, and incidentals necessary to furnish and install PVC service piping (up to 30 feet), fittings, adapters, EMS markers, curb stops, ball valves, swing check valves, service boxes, and any other appurtenances necessary to connect the single service to the force main shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation and backfill thereof, together with the disposal of all excess materials, bracing, sheeting and dewatering, the furnishing and compaction, hydrostatic testing, disinfection, maintaining uninterrupted flow of existing utilities, providing access to driveways at all times, constructing and maintaining all bridges required for traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs, and sod and all other work required for the complete installation of sewer service lines, service boxes, valves, and appurtenances. Payment for this item shall be the actual number of Each (EA) single service installed.

O. PAY ITEM NO. 15 – INSTALL COMMERCIAL (DUPLEX) GRINDER PUMP STATION AND CONCRETE PAD

The Contract Unit Price for this item shall constitute full compensation for installation of a new a commercial duplex grinder pump station with concrete pad as shown on the drawings and detailed in Appendix J. The unit bid price shall include, but is not limited to, installation of the Wetwell, valve vault, hatches, discharge piping, pumps, pump bases, rails, brackets, control panel and other appurtenances necessary to provide a functioning and complete pump system. Wetwell, valve vault, hatches, discharge piping, pumps, pump bases, rails, brackets, and control

panel shall be furnished by the Owner for installation by the Contractor. Contractor shall be responsible for miscellaneous hardware and labor required for complete and successful installation of the pumps and pump accessories and furnishing and installing the concrete pad. Measurement and Payment shall be a lump sum (LS) for installation of the grinderpump station and concrete pad.

P. PAY ITEM NO. 16 – INSTALL SIMPLEX GRINDER PUMP STATION

The Contract Unit Price for this item shall constitute full compensation for installation of a new simplex grinder pump station as shown on the drawings. The unit bid price shall include, but is not limited to, installation of the Wetwell, valve vault, hatches, discharge piping, pumps, pump bases, rails, brackets, control panel and other appurtenances necessary to provide a functioning and complete pump system. Wetwell, valve vault, hatches, discharge piping, pumps, pump bases, rails, brackets, and control panel shall be furnished by the Owner for installation by the Contractor. Contractor shall be responsible for miscellaneous hardware and labor required for complete and successful installation of the pumps and pump accessories. Measurement and Payment shall be each (EA) for installation of the grinder pump station.

Q. PAY ITEM NO. 17 – BLACK VINYL-COATED CHAIN-LINK FENCE

Measurement and payment shall be per linear foot (LF) of 6-foot high black vinyl-coated chain-link fence. The unit price shall include, but is not limited to, chain-link fence, black vinyl coating as required for all fence fabric, all posts, concrete footing, braces, rails and accessories. All posts shall be capped with galvanized steel tops. Line post tops shall provide for passage of top rail. All welded joints shall be coated with a two-part epoxy.

R. PAY ITEM NO. 18 – BLACK VINYL-COATED CHAIN-LINK SWING GATE

Measurement and payment shall be per each (EA) chain-link fence gate furnished and installed. Fence gate shall be 6-foot high double swing type with a clearance of 14 feet from fence post to fence post. The unit price shall include, but is not limited to, black vinyl coating as required, all posts, concrete footing, braces, rails, hinges, turnbuckles, lockable latch with industrial drop rod, and other accessories. All posts shall be capped with galvanized steel tops. Line posts shall provide for passage of top rail. All welded joints shall be coated with a two-part epoxy.

S. PAY ITEM NO. 19 – CONNECT 2" PVC FORCE MAIN TO EXISTING 2" FORCE MAIN

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to connect to the proposed 2- inch PVC force main to the existing 2-inch PVC force main where shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not

limited to: removing existing pipe and fittings, excavation and backfill thereof, sheeting and bracing, dewatering, protection and support of existing utilities, proper handling and disposal of pipe at an approved facility, installing adapters for new the new pipe and fittings, providing access to roadway, driveways, and sidewalks at all times, backfilling and compaction, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs, and lawns, and all other work required for connecting to the existing force main. Payment for this item shall be the actual number of Each (EA) connection installed.

T. PAY ITEM NO. 20 – TERMINAL FLUSHING PORT

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install terminal flushing ports, as shown on the drawings, as specified herein and as directed by the ENGINEER, including but not limited to: excavation, disposal of excess materials, bracing, sheeting and dewatering, the installation of the materials of the terminal flushing port assembly, box, cover, PVC piping, ball valves, plugs, fittings, gaskets, flanges, and restraints, backfill and compaction, rock bedding, hydrostatic testing, concrete thrust blocks, maintaining uninterrupted service in existing utilities, location and protection of utilities, maintenance of traffic, and all other work required for the complete installation of the terminal flushing port. Payment for this item shall be the actual number of Each (EA) terminal flushing port installed.

U. PAY ITEM NO. 21 – INLINE FLUSHING PORT

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install in-line flushing ports, as shown on the drawings, as specified herein and as directed by the ENGINEER, including but not limited to: excavation, disposal of excess materials, bracing, sheeting and dewatering, the installation of the materials of the in-line flushing port assembly, box, cover, PVC piping, ball valves, plugs, fittings, gaskets, flanges, and restraints, backfill and compaction, rock bedding, hydrostatic testing, concrete thrust blocks, maintaining uninterrupted service in existing utilities, location and protection of utilities, maintenance of traffic, and all other work required for the complete installation of the in-line flushing port. Payment for this item shall be the actual number of Each (EA) in-line flushing port installed.

V. PAY ITEM NO. 22 – AIR RELEASE VALVE

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install air release valves as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the valves, together with the disposal of all excess materials, bracing, sheeting and dewatering, the installation of the air release valve, valve boxes, bolts, nuts, and gaskets, backfilling, hydrostatic testing, concrete thrust block and restraints and concrete supports, maintaining

uninterrupted flow of existing utilities, providing access to driveways and roadways at all times, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the air release valves. Payment for this item shall be the actual number of Each (EA) air release valve installed.

W. PAY ITEMS NO. 23 and 24 – 8” AND 6” PVC WATER MAIN

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete construction of C-900 PVC water main as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but not limited to, all surveying, erosion control, trenching, rock removal, disposal of excess materials, bracing, sheeting, dewatering, supporting existing utilities, restraint gaskets or glands, bedding, pipe, pipe marking, tape, blocking, backfilling, compaction, and removal and disposal of sidewalks, driveways, asphaltic concrete, rock base and subgrade (including necessary sawcutting). Payment for this item is per Linear Foot (LF) installed.

X. PAY ITEM NO. 25 -DUCTILE IRON FITTINGS

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete installation of cement lined compact ductile iron fittings, including plugs, as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but is not limited to, all excavation, disposal of excess materials, bracing, sheeting, rock removal, dewatering, the furnishing and installation of the ductile iron fittings, bolts, nuts, gaskets, flanges, restraints, glands, markers, backfilling, compaction, concrete thrust blocks, location and protection of utilities. Payment for this item shall be the actual weight of the compact fittings installed per pound. The weight of glands, restraints, gaskets, nuts, washers, bolts, and other accessories will not be measured for payment.

Y. PAY ITEMS NO. 26 AND 27 – 8” AND 6” GATE VALVE WITH VALVE BOX

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete installation of ductile iron gate valves as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but is not limited to, all excavation, disposal of excess materials, bracing, sheeting, rock removal, dewatering, the furnishing and installation of the gate valves, valve boxes, valve key extensions, bolts, nuts, gaskets, restraints, glands, backfilling, compaction, concrete thrust blocks concrete collars, Operation and Maintenance Manuals, and protection of utilities, structures, trees, and shrubs. Payment for this item shall be the actual number of Each (EA) valve installed.

Z. PAY ITEM NO. 28 – FIRE HYDRANT ASSEMBLY WITH 6” GATE VALVE AND VALVE BOX

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete installation of a fire hydrant assembly, a 6-inch ductile iron gate valve, and valve box as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but is not limited to, all excavation, disposal of excess materials, bracing, sheeting, rock removal, dewatering, the furnishing and installation of the fire hydrant assembly, 90-degree bend, gate valve, 6-inch PVC pipe from the tee to the hydrant, valve boxes, valve key extensions, bolts, nuts, gaskets, restraints, glands, backfilling, compaction, concrete thrust blocks concrete collars, Operation and Maintenance Manuals, and protection of utilities, structures, trees, and shrubs. Payment for this item shall be the actual number of Each (EA) fire hydrant installed.

AA. PAY ITEM NO. 29 – BLOWOFF ASSEMBLY

Under this item, the Contractor shall provide all labor, materials and equipment, and incidentals necessary to furnish and install Blowoff Assembly as shown on the drawings, as specified herein and as directed by the Engineer, including but not limited to: excavation, disposal of excess materials, bracing, sheeting and dewatering, the furnishing and installation of the fill and flushing assembly, fittings, bolts, nuts, gaskets, flanges, restraints, backfill and compaction, testing, supports, maintaining existing utilities, protection of utilities, protection of structures, trees and shrubs and all other work required for the complete installation of the Blowoff Assembly. Payment of this item shall be per Each (EA) Blowoff Assembly installed.

BB. PAY ITEM NO. 30 – PRESSURE TESTING & CHLORINATING NEW WATER MAIN

The Contractor’s bid unit price per linear foot (LF) of water main shall include all labor, materials, equipment, and incidentals necessary to flush and disinfect, as necessary for satisfactory bacteriological sampling and clearance, the new water mains, as shown on the Drawings and specified herein, and as directed by the Engineer. This item shall include coordination and planning for disposal of flushing water and disinfecting solutions, and coordination of bacteriological sampling with the Owner. All work shall be in accordance with the Owner specifications, applicable AWWA standards, and the Florida Department of Environmental Protection. Payment for chlorination and testing shall be contingent on acceptance and clearance to place the water main in service being granted by the Florida Department of Environmental Protection. Note that expenses for re-flushing, disinfection, and sampling required due to previously failed bacteriological samples shall be borne by the Contractor, and will not be paid by the Owner.

Failing bacteriological tests must be retested on both the failing test site and the adjacent test sites. The expenses for re-sampling the failing test site and the adjacent

test sites shall be borne by the Contractor and will not be paid by the Owner.

CC. PAY ITEM NO. 31 –SAMPLE POINT

Under this item, the Contractor shall provide all labor, materials and equipment, and incidentals necessary to furnish and install sample points as shown on the drawings, as specified herein and as directed by the Engineer, including but not limited to: excavation, disposal of excess materials, bracing, sheeting and dewatering, the furnishing and installation of the sample points, fittings, bolts, nuts, gaskets, flanges, restraints, backfill and compaction, testing, supports, removal of sample points after testing is complete, maintaining existing utilities, protection of utilities, protection of structures, trees and shrubs and all other work required for the complete installation of the sample points. Payment of this item shall be per Each (EA) sample point installed.

DD. PAY ITEM NO. 32 & 33 – SINGLE WATER SERVICE & POTABLE WATER IRRIGATION SERVICE

The Contractor's bid unit price per each (EA) shall include all labor, materials, equipment, and incidentals necessary to furnish and install a water service from the new water main to the new valve box including furnishing and installing polyethylene (PE) tubing, location wire, service saddles, corporation stops, curb stops, poly tubing and poly adapters, nipples, tees, elbows, fittings and all other materials required for the complete connection as shown on the Drawings and specified herein, and as directed by the Engineer, including but not limited to: excavation, disposal of all excess materials, bracing, sheeting, and dewatering, bedding, backfilling and compaction of trenches.

This item also includes density testing, flushing, hydrostatic testing, disinfection, maintaining uninterrupted services of existing utilities, providing access to driveways and roadways at all times, cleaning the site of the work location, protection of existing utilities, structures, trees, shrubs, and lawns, and all other work required for the complete installation of the service connection.

The unit price bid per water service (EA) shall also include all labor, materials, equipment and incidentals necessary to make the water service connection from the new valve box to the house connection; furnish and install polyethylene (PE) tubing, corporation stops, or any other materials required for the connection, making connection to the valve box and the connection going into the house as shown on the contract drawings, as specified herein and as directed by the Engineer, including but not limited to: the excavation and backfill thereof, together with the disposal of all excess materials, bracing, sheeting and dewatering, the furnishing, installation, and compaction, hydrostatic testing, disinfection, cutting and capping the existing service line, maintaining uninterrupted flow of existing utilities, providing access to driveways at all times, constructing and maintaining all traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete connection of water service lines. All work shall be in accordance with Town of Jupiter requirement.

EE. PAY ITEM NO. 34 – CUT, CAP, AND GROUT EXISTING WATER MAIN

The Contractor's bid unit price per lump sum (LS) shall include all labor, materials, equipment, and incidentals necessary to cut, cap, and grout fill the existing water main where shown on the Drawings and specified herein, and as directed by the Engineer, including but not limited to: excavation, legal disposal of removed piping and all excess materials, bracing, sheeting, and dewatering, furnishing and installing caps, grouting, backfilling and compaction, density testing, maintaining uninterrupted services of existing utilities, providing access to driveways and roadways at all times, cleaning the site of the work location, protection of existing utilities, structures, trees, shrubs, and lawns, restoration of both sod and sidewalks, and all other work required for the complete installation. Cutting, capping, grouting and abandonment of water main shall be made at locations shown on the Drawings and as directed by the Engineer.

FF. PAY ITEM NO. 35– CONNECT TO EXISTING WATER METER

The Contractor's bid unit price per lump sum (LS) shall include all labor, materials, equipment, tools, and incidentals necessary to cut existing water main and connect proposed water main to the existing Town of Jupiter meter. Item includes gaskets, spool pieces, installation of the connection fittings, restraints, excavation for the trench, disposal of all excess materials, bracing, sheeting, and dewatering, backfilling and compaction of trenches, density testing, disinfection, maintaining uninterrupted services of existing utilities, providing access to driveways and roadways at all times, cleaning the site of the work location, protection of existing utilities, structures, trees, shrubs, irrigation systems, , and all other materials for a complete installation as shown on the Drawings and as specified herein.

GG. PAY ITEM NO. 36 – PRESSURE VACUUM BREAKER BACKFLOW PREVENTER

Under this item, the Contractor shall provide all labor, materials and equipment, and incidentals necessary to furnish and install the pressure vacuum breaker backflow preventer assembly as shown on the drawings, as specified herein and as directed by the Engineer, including but not limited to: excavation, disposal of excess materials, bracing, sheeting and dewatering, the furnishing and installation of the pressure vacuum breaker, ball valves, copper and PVC pipe and fittings, bolts, nuts, gaskets, flanges, restraints, backfill and compaction, testing, supports, maintaining existing utilities, protection of utilities, protection of structures, trees and shrubs and all other work required for the complete installation of the pressure vacuum assembly. Payment of this item shall be per Each (EA) pressure vacuum breaker backflow preventer installed.

HH. PAY ITEM NO. 37 – 12” STABILIZED SUBGRADE, LBR 40 MIX BASE WITH EXISTING SAND

Under this Item, Contractor shall provide all labor, material, and equipment required for furnishing, spreading and mixing of all stabilizing material required and any reprocessing of stabilization areas necessary to attain the specified bearing value. Payment for this item shall be by Square Yard (SY) of stabilized subgrade installed.

II. PAY ITEM NO. 38 – REWORK COMPACTED SHELLROCK ROADWAY AND DRIVEWAYS

Under this Item, Contractor shall provide all labor, material, and equipment required for the reworking of shellrock roadways and driveways. The bid price shall include but not be limited to installation, compaction, preparation and fine grading of subgrade and base, erosion control, furnishing and installing shellrock, and finishing. Payment for this item shall be by Square Yard (SY) of shellrock roadway or driveway.

JJ. PAY ITEM NO. 39 – INSTALL COMPACTED SHELLROCK PARKING AREAS

Under this Item, Contractor shall provide all labor, material, and equipment required for the installation of new shellrock (FDOT optional base group 6, 8” Coquina) parking areas. The bid price shall include but not be limited to installation, compaction, preparation and fine grading of subgrade and base, erosion control, furnishing and installing shellrock, and finishing. Payment for this item shall be by Square Yard (SY) of shellrock parking area installed.

KK. PAY ITEM NO. 40 – WHEEL STOPS FOR PARKING AREA

Contractor to provide all labor, material, and equipment required install concrete wheel stops in the parking spaces as noted on the plans. Payment for this item shall be by Each (EA).

LL. PAY ITEM NO. 41 – INSTALL CONCRETE SIDEWALK

The Contractor’s bid unit price per square yard (SY) shall include all labor, materials, equipment, and incidentals necessary for the complete installation of concrete sidewalks at the thickness indicated on the Drawings. This item includes, but is not limited to: removal and disposal of existing material, performance of all necessary survey work, earthwork, grading, compacting subgrade to 98% of max density per A.A.S.T.H.O. T-180, furnish and constructing concrete sidewalk base material, sand, furnishing and setting for expansion joint material, disposal of excess material, densities passed, all cleanup of the area disturbed by this construction, providing access to driveways and roadways at all times, protection of existing utilities, structures, trees, shrubs, protection and/or restoration of existing sodding and irrigation, and all other work required for the complete installation.

MM. PAY ITEM NO. 42 – CLEARING AND GRUBBING

Contractor shall provide all labor, material, and equipment required for all clearing and grubbing required for where excavation is to be done, lateral swales to be constructed, asphalt and flexible pavement to be removed, and any other clearing and grubbing indicated, or required for the construction of the entire project, including all necessary hauling, furnishing equipment, equipment operation, furnishing any areas required for disposal of debris, leveling of terrain and the landscaping work of trimming, etc. Payment for this item shall be by Acre (AC).

NN. PAY ITEM NO. 43 – ABANDON EXISTING STORMWATER STRUCTURE

Contractor to provide all labor, material, and equipment required to plug existing pipes and backfill existing drainage structures as noted on the plans. Payment for this item shall be by lump sum (LS).

OO. PAY ITEM NO. 44 – EXCAVATION AND GRADING

Payment will be based on the plan quantity for excavation to lines and grades shown on the Drawings. Contractor shall make his own estimate or verification of the excavation quantities based on the lines and grades shown on the Drawings and reflect that estimate in the unit price bid at the quantity included on the bid form. The earthwork quantities included in the bid form were calculated based on the total cut volume between the existing and proposed ground surface. Volumes included in topsoil stripping are included in the excavation volume. Excavated material shall remain on-site and be used for fill in areas of roadway and base removal, berms around retention, and spread out-side of the project limits in areas approved by the owner. The disposal of excavation on-site and grading of this fill will not be paid separately from this item. Excavation of trenches and excavation required for installation of pavement is not included. Work includes all materials, labor, and equipment, including, excavation and removal of unsuitable material from the site. Payment for this item is per Cubic Yard (CY) of excavated material.

PP. PAY ITEM NO. 45 – TURF REINFORCEMENT MAT

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete construction of turf reinforcement mat as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but not limited to, all surveying, erosion control, trenching, disposal of excess materials, bracing, sheeting, dewatering, supporting existing utilities, bedding, backfilling and compaction, and installation of the turf reinforcement mat as shown on the engineering plans. Payment for this item is per square yard (SY) installed.

QQ. PAY ITEM NO. 46 – 18" RCP STORMWATER PIPING

The Contract Unit Price for this item shall constitute full compensation for furnishing

all materials, labor, equipment and tools for the complete construction of a 18" RCP culvert as shown on the construction drawings, specified herein and as directed by the Engineer. This item includes, but not limited to, all surveying, erosion control, trenching, rock removal, disposal of excess materials, bracing, sheeting, dewatering, supporting existing utilities, bedding, pipe, pipe marking, tape, blocking, backfilling, compaction, and removal and disposal of sidewalks, asphaltic concrete, rock base and subgrade (including necessary saw cutting). Payment for this item is per horizontal Linear Foot (LF) installed

RR. PAY ITEM NO. 47 – CATCH BASIN, DITCH BOTTOM INLET TYPE-C

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install FDOT Type C Ditch Bottom Inlet(s) as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the inlet, disposal of all excess materials, bracing and sheeting, the installation of the inlet and great, the connection of the proposed storm sewer to the inlet, mudding the manhole water-tight, rock base, backfill and compaction, testing, supports, providing access to driveways and roadways at all times, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the inlet. Item includes any dewatering necessary for installation of the manhole. Payment for this item shall be the actual number of Each (EA) inlets installed.

SS. PAY ITEM NO. 48 – PUMP OUT AND REMOVE GREY WATER TANK

Under this Item, Contractor shall provide all labor, material, and equipment required for the complete removal of existing grey water tanks as indicated on the Drawings. This item includes pump out of any materials in the tank, excavation, complete removal and legal disposal, and backfill and compaction of the excavated areas. Payment of this item shall be by Each grey water tank removed (EA).

TT. PAY ITEM NO. 49 – PUMP OUT AND ABANDON SEPTIC TANK

Under this Item, Contractor shall provide all labor, material, and equipment required for the complete abandonment of existing septic tanks as indicated on the Drawings. This item includes pump out of any materials in the tank, crushing and collapsing of tank to prevent water holding, backfill and compaction of the tank with clean fill, and all other requirements for legal septic tank abandonment as outlined by the Florida Department of Health. Item includes any permit fees required for abandonment. Payment of this item shall be by Each septic tank abandoned (EA).

UU. PAY ITEM NO. 50 – SODDING

The Contract Unit Price for this item shall constitute full compensation for furnishing all labor, materials, equipment and incidentals necessary to restore all sod, as specified herein and as directed by the ENGINEER including those areas disturbed by the CONTRACTOR for pipe installations, equipment and material laydown,

storage, access areas and areas disturbed outside the limits of the work. This item shall include but not be limited to: furnishing and installing sod, fertilizer, topsoil, water, grading, cutting, and preparation of subgrade, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the sod. The CONTRACTOR shall be responsible for the proper protection and maintenance of the sodded areas until a satisfactory uniform stand of grass has been established (minimum of two cuttings). Where sod fails to grow properly, the CONTRACTOR shall re-sod at his/her own expense, until satisfactory to the ENGINEER. No additional payment for sod will be made for this project. Payment of this item shall be lump sum (LS).

VV. PAY ITEM NO. 51 – TREE & SHRUBBERY RESTORATION

The Contract Unit Price for this item shall constitute full compensation for furnishing all labor, materials, equipment and incidentals necessary to restore and replace shrubbery and trees that are disturbed by the construction, as specified herein and as directed by the ENGINEER, including but not limited to: furnishing and installing, replacing or relocating shrubbery and trees, fertilizer, topsoil, water, grading, cutting, mulching and preparation of subgrade, cleaning the site of the work location and protection of utilities, structures, and lawns, and all other work required for the complete restoration of the existing shrubbery and trees. All trees and shrubbery damaged beyond the limits of the work (20' each way from the center of the proposed pipe or outside of the right-of-way) as a result of the CONTRACTOR's operations shall be removed and replaced at CONTRACTOR's expense in accordance with the specifications and to the approval of the OWNER. Payment of this item shall be by Lump Sum (LS).

WW. PAY ITEM NO. 52 – MISCELLANEOUS RESTORATION

The Contract Unit Price for this item shall constitute full compensation for furnishing all labor, materials, equipment and incidentals. The unit price shall include, but is not limited to, furnishing and installing any necessary utility repairs, landscaping replacement, concrete sidewalk repairs, and any other restoration required to bring the site to pre-construction condition or better. Measurement and Payment shall be a lump sum (LS) for miscellaneous restoration required at the lift station site, not covered in other bid items.

XX. PAY ITEM NO. 53 – LIFT STATION ELECTRICAL SERVICE

The Contract Unit Price for this item shall constitute full compensation for furnishing all labor, materials, equipment and incidentals necessary to install a customer owned secondary electrical service from the proposed transformer (3 PH 150KVA (120/208), 6-7940-7531-0-0) shown on FPL Plans in Appendix E, Drawing No. B16R380 in Appendix E to the proposed lift station site as shown on drawing E2. The contract unit price shall include the conduit, wire and FPL cost for the meter. All terminations at the transformer and all equipment owned by FPL shall be completed by FPL. Installation shall comply with NEC and FPL standards.

YY. PAY ITEM NO. 54 – FPL UNDERGROUND INSTALLATION

The Contract Unit Price for this item shall constitute full compensation for all labor, materials, equipment and incidentals necessary to transport all materials from the FPL storage site to the project and install transformer pads, conduit, pull boxes and incidentals for conversion of FPL power from overhead to underground as shown on FPL plans in Appendix E. This pay item shall include all costs for a complete underground power conversion at the site up to the individual meters at each building. This pay item does not include the direct purchase material cost or installation cost from FPL. The Owner will direct purchase the materials and FPL installation cost.

ZZ. PAY ITEM NO. 55 – COMCAST UNDERGROUND INSTALLATION

The Contract Unit Price for this item shall constitute full compensation for all labor, materials, equipment and incidentals necessary to transport all materials from the Comcast storage site to the project and install pads, conduit, pull boxes and incidentals for conversion of Comcast from overhead to underground as shown on Comcast plans in Appendix F. This pay item shall include all costs for a complete underground conversion at the site up to the individual buildings. This pay item does not include the direct purchase material cost or installation cost from Comcast. The Owner will direct purchase the materials and Comcast installation cost.

END OF SECTION