

SECTION 01150

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE OF THIS SECTION

- A. The following explanation of the Measurement and Payment for the Bid Form items is provided; however, the omission of reference to any item shall not alter the intent of the Bid Form or relieve the Contractor of the necessity of constructing a complete project under this Contract.

1.02 METHOD OF MEASUREMENT

- A. **Measurement of Length:** Unless otherwise specified for the particular items involved, all measurements of distance for items to be paid for on the basis of length shall be taken horizontally or vertically.
- B. **Measurement of Area:** In the measurement of items paid for on the basis of area of finished work, the lengths and/or widths to be used in the calculations shall be the actual dimensions measured along the surface of the completed work within the neat lines shown or designated. At intersections, the measurement used for length of side area will be measured from the outside edge of the width allowed along the main trench.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

3.01 BID FORM

- A. **BID ITEM NO. 1 – MOBILIZATION, BONDS & INSURANCE**

Measurement: Work as specified in this section shall consist of work preparatory to actual construction at the site. It shall include, but not be limited to, movement of personnel, equipment, supplies, and incidentals to the project site, and for the establishment of temporary offices, buildings, safety equipment and first aid supplies, sanitary and other facilities as required by these Specifications and state and local laws and regulations. This cost should include the construction of two (2) project signs that shall be displayed at approaches to the project area. The intent is that the signs will be freestanding. The sign shall display on both sides the project name, Village Logo, elected officials, and contact information. The costs of any and all permits, bonds and any required insurance, and any other preconstruction expense necessary for the start of the work, excluding the cost of construction materials, shall be included in this section. Also included in this section will be all costs associated with meetings and coordination with the Owner and Engineer for the purpose of discussing project progress.

Payment: Payment shall be made as a lump sum quantity in accordance with the following schedule and the contract documents:

<u>Percentage</u> <u>Contract</u> <u>Amount Earned</u>	<u>Allowable</u> <u>Percentage of</u> <u>Lump Sum Price</u>
5%	25%
10%	50%
25%	75%
50%	100%

The standard retainage will be applied to these allowances.

B. BID ITEM NO. 2 - REMOVAL AND SALVAGE/DISPOSAL OF MAIN WASTEWATER PUMP STATION EXISTING EQUIPMENT/MATERIALS

Measurement: The cost shall include demolition, removal and salvage/disposal of all existing equipment, materials, controls, and associated electrical system components.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor and equipment needed to salvage/dispose of all existing equipment as indicated on the plans off site in a legal manner. Prior to disposal,

the Contractor will coordinate with Owner on any items to be salvaged or kept by the Village.

C. **BID ITEM NO. 3 – DEMOLITION OF MAIN WASTEWATER PUMP STATION BUILDING/WETWELL/DRY PIT STRUCTURES AND UTILITIES**

Measurement: The cost shall include demolition and disposal of the existing pump station, site elements in conflict with the proposed improvements, and existing utilities to be removed or placed out of service.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor and equipment needed to demolish and remove the existing pump station building, wetwell, dry pit, FPL vault, existing gravity sewer, force main piping, and all asphalt, concrete, curbing, sidewalk, etc. as indicated on the plans off site in a legal manner. Bid item cost to include provisions and legal procedures for proper disinfection and disposal of any existing wastewater and/or debris in the wetwell or associated piping as part of the demolition process. Bid item also to include studies, such as asbestos, required by any authorities having jurisdiction prior to demolishing the structure.

D. **BID ITEM NO. 4 - REMOVAL AND SALVAGE/DISPOSAL OF MAIN WASTEWATER PUMP STATION GENERATOR AND FUEL SYSTEM**

Measurement: The cost shall include demolition, removal and salvage/disposal of the existing generator system.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor and equipment needed to salvage/dispose of the existing generator, fuel system, generator system accessories, controls, and associated electrical system as indicated on the plans off site in a legal manner. Prior to disposal, the Contractor will coordinate with Owner on any generator related items to be salvaged or kept by the Village. Bid item cost to include provisions and legal procedures for proper removal and/or disposal of any fuels or contaminated fluids associated with the generator system.

E. **BID ITEM NO. 5 - REMOVAL AND SALVAGE/DISPOSAL OF HISPANOLA AVENUE WASTEWATER PUMP STATION EXISTING EQUIPMENT/MATERIALS**

Measurement: The cost shall include demolition, removal and salvage/disposal of all existing equipment, materials, controls, and associated electrical system components.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor and equipment needed to salvage/dispose of all existing equipment as indicated on the plans off site in a legal manner. Prior to disposal, the Contractor will coordinate with Owner on any items to be salvaged or kept by the Village.

F. **BID ITEM NO. 6 – DEMOLITION OF HISPANOLA AVENUE PUMP STATION WETWELL/DRY PIT STRUCTURES AND UTILITIES**

Measurement: The cost shall include demolition and disposal of the existing pump station, site elements in conflict with the proposed improvements, and existing utilities to be removed or placed out of service. This cost shall also include field coordination and removal/relocation of all palm trees on the Hispanola Avenue as directed by the Village.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor and equipment needed to demolish and remove the existing pump station wetwell, dry pit, existing gravity sewer, force main piping, and all asphalt, concrete, curbing, sidewalk, etc. as indicated on the plans off site in a legal manner. Bid item cost to include provisions and legal procedures for proper disinfection and disposal of any existing wastewater and/or debris in the wetwell or associated piping as part of the demolition process. Bid item also to include palm tree removal/relocation and studies, such as asbestos, required by any authorities having jurisdiction prior to demolishing the structure.

G. **BID ITEM NO. 7 - REMOVAL AND SALVAGE/DISPOSAL OF HISPANOLA AVENUE PUMP STATION GENERATOR AND FUEL SYSTEM**

Measurement: The cost shall include demolition, removal and salvage/disposal of the existing generator system.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor and equipment needed to salvage/dispose of the existing generator, fuel system, generator system accessories, controls, and associated electrical system as indicated on the plans off site in a legal manner. Prior to disposal, the Contractor will coordinate with Owner on any generator related items to be salvaged or kept by the Village. Bid item cost to include provisions and legal procedures for proper removal and/or disposal of any fuels or contaminated fluids associated with the generator system.

H. **BID ITEM NO. 8 - INSTALL NEW SUBMERSIBLE MAIN WASTEWATER PUMP STATION WITH VALVE VAULT**

Measurement: The cost shall include work associated with installing new submersible wastewater pump station including but not limited to wetwell, valve vault, submersible pumps, all valves, piping, and fittings reflected on the pump station detail sheet, hatch covers, pump station accessories, and sump pump system.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, pump station installation, connection to proposed sanitary sewer and force main systems, system restraining, concrete, clearing, grubbing, excavation and back fill, sheeting and shoring as needed, bypass pumping plan and equipment, dewatering, compaction, disposal of undesirable material, new fill, grading, safety, dust/erosion control, survey layout, asbuilt drawings, repair or replacement of existing utilities impacted or damaged during construction, operation and maintenance manuals, and training for a complete wastewater pump station installation. Any item not specified shall be considered incidental to the work.

I. **BID ITEM NO. 9 – INSTALL 8” C900 PVC FORCE MAIN AT MAIN WASTEWATER PUMP STATION**

Measurement: The cost shall include material and work associated with installing 8” C900 PVC force main piping as shown on the plans on a lineal foot basis in accordance with the unit prices contained in the proposal.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, force main installation, DIP fittings with protective coatings, connection to existing system, restraining devices, clearing, grubbing, excavation and back fill, sheeting and shoring as needed, bypass pumping plan and equipment, dewatering, compaction, disposal of undesirable material, new fill, grading, associated trench restoration, safety, dust/erosion, pressure testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for a complete force main installation. Any item not specified shall be considered incidental to the work.

J. **BID ITEM NO. 10 – 8” PLUG VALVES AT MAIN WASTEWATER PUMP STATION**

Measurement: The cost shall include material and work associated with installing 8” plug valves as shown on the plans in accordance with the unit prices contained in the proposal.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, valve installation, valve box installation, concrete pads, extension nuts, restraining devices, fittings, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, associated trench restoration, safety, dust/erosion, pressure testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for complete a complete plug valve installation. Any item not specified shall be considered incidental to the work.

K. **BID ITEM NO. 11 – FORCE MAIN AIR RELEASE VALVE ASSEMBLY AT MAIN WASTEWATER PUMP STATION**

Measurement: The cost shall include material and work associated with installing air release valves as shown on the plans or as determined in the field in accordance with the unit prices contained in the proposal. The air release valves shall be automatic operation type and installed in a concrete vault with manhole cover as specified.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all existing

utilities prior to construction, automatic air release valve assembly installation, corporation stops, pipe, fittings, couplings, taps, valve vault/box, connection to force main, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, associated trench restoration, safety, dust/erosion, pressure testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for complete a complete air release valve assembly installation. Any item not specified shall be considered incidental to the work.

L. BID ITEM NO. 12 AND 13 – 18” AND 10” PVC GRAVITY SEWER AT MAIN WASTEWATER PUMP STATION

Measurement: The cost shall include material and work associated with installing PVC, SDR 26 gravity sewer as shown on the plans on a lineal foot basis in accordance with the unit prices contained in the proposal.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, gravity sewer installation, connection to existing/proposed system, pipe couplings, clearing, grubbing, excavation and back fill, sheeting and shoring as needed, bypass pumping plan and equipment, dewatering, compaction, disposal of undesirable material, new fill, grading, associated trench restoration, safety, dust/erosion, testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for a complete force main installation. Any item not specified shall be considered incidental to the work.

M. BID ITEM NO. 14 – INSTALL SANITARY MANHOLE AT MAIN WASTEWATER PUMP STATION

Measurement: The unit price shall include work associated with installing new sanitary manholes including but limited to manhole structure, manhole covers and frames, invert channels, and accessories as shown on the plans.

Payment: Payment shall be at the contract unit price for the installation of sanitary manholes and shall include all costs for labor, equipment, materials, bypass pumping, connection to proposed/existing sanitary sewer system, grouting, interior and exterior protective coatings, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading,

trench restoration, testing, utility cover adjustment, survey layout, record drawings, and repair or replacement of existing utilities impacted or damaged during construction for a complete sanitary manhole installation. Any item not specified shall be considered incidental to the work.

N. **BID ITEM NO. 15 - INSTALL MACERATOR ASSEMBLY AT MAIN WASTEWATER PUMP STATION**

Measurement: The cost shall include work associated with installing a new wastewater macerator assembly including but limited to manhole structure, submersible macerator, manhole cover and frame, and accessories as shown on the plans.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, macerator assembly installation, connection to proposed sanitary sewer system, restraining and anchoring requirements/devices, concrete, clearing, grubbing, excavation and back fill, bypass pumping, dewatering, compaction, disposal of undesirable material, new fill, grading, safety, dust/erosion control, survey layout, asbuilt drawings, repair or replacement of existing utilities impacted or damaged during construction, operation and maintenance manuals, and training for a complete wastewater macerator installation. Any item not specified shall be considered incidental to the work.

O. **BID ITEM NO. 16 – INSTALL ¾” HDPE WATER SERVICE WITH RPZ AT MAIN WASTEWATER PUMP STATION**

Measurement: The cost shall include work associated with installing a new ¾” HDPE water service including but not limited to HDPE piping, RPZ backflow assembly, hose bib, corporation stops, fittings, couplings, taps, connection to existing water meter, and accessories as shown on the plans.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, water service installation, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, associated site restoration, safety, dust/erosion, disinfection and bacteriological testing, pressure testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for a

complete water service installation. Any item not specified shall be considered incidental to the work.

P. BID ITEM NO. 17 – INSTALL FENCE AT MAIN WASTEWATER PUMP STATION

Measurement: The cost shall include material and work associated with installing new chain link fencing including but not limited fencing, posts, gate, fabric, truss rods, concrete footers, locking devices and accessories as shown on the plans on a lineal foot basis in accordance with the unit prices contained in the proposal.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all underground utilities prior to construction, fence and gate installation, building department permitting, clearing, grubbing, excavation and back fill, compaction, disposal of undesirable material, new fill, grading, safety, dust/erosion, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for a complete chain link fence and gate installation. Any item not specified shall be considered incidental to the work.

Q. BID ITEM NO. 18 - INSTALL NEW SUBMERSIBLE HISPANOLA AVENUE PUMP STATION WITH VALVE VAULT

Measurement: The cost shall include work associated with installing new submersible wastewater pump station including but not limited to wetwell, valve vault, submersible pumps, all valves, piping, and fittings reflected on the pump station detail sheet, hatch covers, pump station accessories, and sump pump system.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, pump station installation, connection to proposed sanitary sewer and force main systems, system restraining, concrete, clearing, grubbing, excavation and back fill, sheeting and shoring as needed, bypass pumping plan and equipment, dewatering, compaction, disposal of undesirable material, new fill, grading, safety, dust/erosion control, survey layout, asbuilt drawings, repair or replacement of existing utilities impacted or damaged during construction, operation and maintenance manuals, and training for a complete

wastewater pump station installation. Any item not specified shall be considered incidental to the work.

R. **BID ITEM NO. 19 – INSTALL 8” C900 PVC FORCE MAIN AT HISPANOLA AVENUE PUMP STATION**

Measurement: The cost shall include material and work associated with installing 8” C900 PVC force main piping as shown on the plans on a lineal foot basis in accordance with the unit prices contained in the proposal.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, force main installation, DIP fittings with protective coatings, connection to existing system, restraining devices, clearing, grubbing, excavation and back fill, sheeting and shoring as needed, bypass pumping plan and equipment, dewatering, compaction, disposal of undesirable material, new fill, grading, associated trench restoration, safety, dust/erosion, pressure testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for a complete force main installation. Any item not specified shall be considered incidental to the work.

S. **BID ITEM NO. 20 – 8” PLUG VALVES AT HISPANOLA AVENUE PUMP STATION**

Measurement: The cost shall include material and work associated with installing 8” plug valves as shown on the plans in accordance with the unit prices contained in the proposal.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, valve installation, valve box installation, concrete pads, extension nuts, restraining devices, fittings, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, associated trench restoration, safety, dust/erosion, pressure testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for complete a complete plug valve installation. Any item not specified shall be considered incidental to the work.

T. **BID ITEM NO. 21 – FORCE MAIN AIR RELEASE VALVE ASSEMBLY AT HISPANOLA AVENUE PUMP STATION**

Measurement: The cost shall include material and work associated with installing air release valves as shown on the plans or as determined in the field in accordance with the unit prices contained in the proposal. The air release valves shall be automatic operation type and installed in a concrete vault with manhole cover as specified.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, automatic air release valve assembly installation, corporation stops, pipe, fittings, couplings, taps, valve vault/box, connection to force main, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, associated trench restoration, safety, dust/erosion, pressure testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for complete a complete air release valve assembly installation. Any item not specified shall be considered incidental to the work.

U. **BID ITEM NO. 22 – 18” PVC GRAVITY SEWER AT HISPANOLA AVENUE PUMP STATION**

Measurement: The cost shall include material and work associated with installing PVC, SDR 26 gravity sewer as shown on the plans on a lineal foot basis in accordance with the unit prices contained in the proposal.

Payment: Payment for this work shall be made at the unit cost basis and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, gravity sewer installation, connection to existing/proposed system, pipe couplings, clearing, grubbing, excavation and back fill, sheeting and shoring as needed, bypass pumping plan and equipment, dewatering, compaction, disposal of undesirable material, new fill, grading, associated trench restoration, safety, dust/erosion, testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for a complete force main installation. Any item not specified shall be considered incidental to the work.

V. **BID ITEM NO. 23 – INSTALL SANITARY MANHOLE AT HISPANOLA AVENUE PUMP STATION**

Measurement: The unit price shall include work associated with installing new sanitary manholes including but limited to manhole structure, manhole covers and frames, invert channels, and accessories as shown on the plans.

Payment: Payment shall be at the contract unit price for the installation of sanitary manholes and shall include all costs for labor, equipment, materials, bypass pumping, connection to proposed/existing sanitary sewer system, grouting, interior and exterior protective coatings, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, trench restoration, testing, utility cover adjustment, survey layout, record drawings, and repair or replacement of existing utilities impacted or damaged during construction for a complete sanitary manhole installation. Any item not specified shall be considered incidental to the work.

W. **BID ITEM NO. 24 – INSTALL ¾” HDPE WATER SERVICE WITH RPZ AT HISPANOLA AVENUE PUMP STATION**

Measurement: The cost shall include work associated with installing a new ¾” HDPE water service including but not limited to HDPE piping, RPZ backflow assembly, hose bib, corporation stops, fittings, couplings, taps, connection to existing water meter, and accessories as shown on the plans.

Payment: Payment for this work shall be made at the lump sum price and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, water service installation, clearing, grubbing, excavation and back fill, dewatering, compaction, disposal of undesirable material, new fill, grading, associated site restoration, safety, dust/erosion, disinfection and bacteriological testing, pressure testing, survey layout, asbuilt drawings, and repair or replacement of existing utilities impacted or damaged during construction for a complete water service installation. Any item not specified shall be considered incidental to the work.

X. **BID ITEM NO. 25 – ELECTRICAL SYSTEM MODIFICATIONS AND NEW ELECTRICAL WORK AT MAIN WASTEWATER PUMP STATION**

Measurement: The cost shall include material and work associated with the modifications of the existing electrical service/distribution system as needed for the installation of the new control panel and associated control system components including but not limited to all conduit, wiring, and grounding at the Main Wastewater Pump Station.

Payment: Payment for modifications of the electrical distribution system as well as installation of new electrical system shall be made at the lump sum price and shall include all materials, labor, and all terminations and tie-in at the control panel and panelboards for a complete electrical service/distribution system installation. Cost shall also include coordination with FPL and the Owner as needed for the new electrical service.

Y. **BID ITEM NO. 26 – INSTALL NEW CONTROL PANEL AT MAIN WASTEWATER PUMP STATION**

Measurement: The cost shall include material and work associated with installing a new control panel system including but not limited to stainless steel control panel, variable frequency drive, programmable logic controller, operator interface, air conditioner, equipment rack, level transmitter, level switches, pressure transmitter, and SCADA system for the Main Wastewater Pump Station and associated wastewater macerator as shown on the plans.

Payment: Payment for this work shall be made at a lump sum cost and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, control panel installation, concrete, clearing, grubbing, excavation and back fill, compaction, disposal of undesirable material, new fill, grading, safety, dust/erosion control, survey layout, asbuilt drawings, repair or replacement of existing utilities impacted or damaged during construction, operation and maintenance manuals, and training for a complete control panel system installation. Any item not specified shall be considered incidental to the work.

Z. **BID ITEM NO. 27 – ELECTRICAL SYSTEM MODIFICATIONS AND NEW ELECTRICAL WORK AT HISPANOLA AVENUE PUMP STATION**

Measurement: The cost shall include material and work associated with the modifications of the existing electrical service/distribution system as needed for the installation of the new control panel and associated control system components

including but not limited to all conduit, wiring, and grounding at the Hispanola Avenue Pump Station.

Payment: Payment for modifications of the electrical distribution system as well as installation of new electrical system shall be made at the lump sum price and shall include all materials, labor, and all terminations and tie-in at the control panel and panelboards for a complete electrical service/distribution system installation. Cost shall also include coordination with FPL and the Owner as needed for the new electrical service.

AA. **BID ITEM NO. 28 – INSTALL NEW CONTROL PANEL AT HISPANOLA AVENUE PUMP STATION**

Measurement: The cost shall include material and work associated with installing a new control panel system including but not limited to stainless steel control panel, variable frequency drive, programmable logic controller, operator interface, air conditioner, equipment rack, level transmitter, level switches, pressure transmitter, and SCADA system for the Hispanola Avenue Pump Station as shown on the plans.

Payment: Payment for this work shall be made at a lump sum cost and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, control panel installation, concrete, clearing, grubbing, excavation and back fill, compaction, disposal of undesirable material, new fill, grading, safety, dust/erosion control, survey layout, asbuilt drawings, repair or replacement of existing utilities impacted or damaged during construction, operation and maintenance manuals, and training for a complete control panel system installation. Any item not specified shall be considered incidental to the work.

BB. **BID ITEM NO. 29 – ELECTRICAL SYSTEM MODIFICATIONS AND NEW ELECTRICAL WORK AT VILLAGE HALL PUMP STATION**

Measurement: The cost shall include material and work associated with the modifications of the existing electrical service/distribution system as needed for the installation of the new control panel and associated control system components including but not limited to all conduit, wiring, and grounding at the Village Hall Pump Station.

Payment: Payment for modifications of the electrical distribution system as well as installation of new electrical system shall be made at the lump sum price and shall include all materials, labor, and all terminations and tie-in at the control panel and panelboards for a complete electrical service/distribution system installation. Cost shall also include coordination with FPL and the Owner as needed for the new electrical service.

CC. **BID ITEM NO. 30 – INSTALL NEW CONTROL PANEL AT VILLAGE HALL PUMP STATION**

Measurement: The cost shall include material and work associated with installing a new control panel system including but not limited to stainless steel control panel, variable frequency drive, programmable logic controller, operator interface, air conditioner, equipment rack, level transmitter, level switches, pressure transmitter, and SCADA system for the Village Hall Pump Station as shown on the plans.

Payment: Payment for this work shall be made at a lump sum cost and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, control panel installation, concrete, clearing, grubbing, excavation and back fill, compaction, disposal of undesirable material, new fill, grading, safety, dust/erosion control, survey layout, asbuilt drawings, repair or replacement of existing utilities impacted or damaged during construction, operation and maintenance manuals, and training for a complete control panel system installation. Any item not specified shall be considered incidental to the work.

DD. **BID ITEM NO. 31 – ELECTRICAL SYSTEM MODIFICATIONS AND NEW ELECTRICAL WORK AT SOUTH TREASURE DRIVE PUMP STATION**

Measurement: The cost shall include material and work associated with the modifications of the existing electrical service/distribution system as needed for the installation of the new control panel and associated control system components including but not limited to all conduit, wiring, and grounding at the South Treasure Drive Pump Station.

Payment: Payment for modifications of the electrical distribution system as well as installation of new electrical system shall be made at the lump sum price and

shall include all materials, labor, and all terminations and tie-in at the control panel and panelboards for a complete electrical service/distribution system installation. Cost shall also include coordination with FPL and the Owner as needed for the new electrical service.

EE. **BID ITEM NO. 32 – INSTALL NEW CONTROL PANEL AT SOUTH TRASURE DIRVE PUMP STATION**

Measurement: The cost shall include material and work associated with installing a new control panel system including but not limited to stainless steel control panel, operator interface, equipment rack, level transmitter, level switches, pressure transmitter, and SCADA system for the South Treasure Drive Pump Station as shown on the plans.

Payment: Payment for this work shall be made at a lump sum cost and shall include all labor, equipment, material, location and coordination of all existing utilities prior to construction, control panel installation, concrete, clearing, grubbing, excavation and back fill, compaction, disposal of undesirable material, new fill, grading, safety, dust/erosion control, survey layout, asbuilt drawings, repair or replacement of existing utilities impacted or damaged during construction, operation and maintenance manuals, and training for a complete control panel system installation. Any item not specified shall be considered incidental to the work.

FF. **BID ITEM NO. 33 – ALL PUMP STATION SITE RESTORATION**

Measurement: The cost shall include all construction requirements for project restoration not included as part of a separate bid item so that all areas disturbed or damaged during construction shall be installed as shown on the plans or restored to conditions existing prior to the work.

Payment: Payment for all site restoration work shall be made at the lump sum price and shall include all materials, labor and equipment necessary to perform site restoration work including grading, milling, asphalt over restored utility trench, asphalt in milled areas, base material, limerock, and asphalt in new paved areas, new or restored concrete sidewalk, curbing, valley gutter, driveways, planting, sodding, landscape, irrigation, lighting, striping, signage, clean-up, and any other work required for project completion and acceptance. Any trench or

site restoration costs referenced as part of other bid items should be included in those bid items accordingly.

Restoration other than or in addition to what is indicated by the plans, specifications, and defined herein will be considered incidental to the construction and the costs of this incidental restoration should be included in the cost of project.

GG. BID ITEM NO. 34, 35, 36 and 37 – PROVIDE TRAILER MOUNTED DIESEL ENGINE DRIVEN GENERATOR

Measurement: The cost shall include all work associated with providing a new trailer mounted diesel engine driven generator at each pump station.

Payment: Payment shall be at the contract unit price for all labor, procurement to provide, new trailer mounted diesel engine driven generator, controls and instrumentation, wiring, fuel system, operation and maintenance manuals, start-up/testing, and training for a complete trailer mounted diesel engine driven generator.

HH. BID ITEM NO. 38 – ALLOWANCE

Measurement: The cost shall include a fixed amount per the Bid Form.

Payment: Use of the allocation account shall be for unforeseeable conditions, for construction changes and for availability adjustments, if ordered and authorized by the Village. At the closeout of contract, monies remaining in the contingency allowance will be credited to the Village by change order.

END OF SECTION