

**COLLIER COUNTY**  
**ADDENDUM No.9**  
**TO**  
**CONTRACT DOCUMENTS**  
**FOR**  
**BID #18-7305**  
**PROPOSED MASTER PUMP STATION 306.00**

The following changes and additional information are hereby made part of the Contract documents:

CHANGES:

The Solicitation "End Date" has been extended to: **3:00 pm on July 18<sup>th</sup>, 2018**

QUESTION AND ANSWERS

Question 38: Specification 40 07 64 Pipe Hangers and Supports call for material to be hot dipped galvanized, however the support details called out on the drawings call for stainless steel. Please clarify.

**Answer 38: Type 316 Stainless Steel is required for rod, channel and all pipe hangers and support systems. All anchor bolts, screws and hardware shall be Type 316. Specification and Drawing changes provided herein.**

Question 44: DWG #E-101 shows conduit #10127 twice, the first in the gate access panel, the second is in the north gate slave controller going to the fire department access switch. The latter agrees with the conduit schedule, the first conduit in the gate access must be numbered incorrectly. What should the first conduit number be?

**Answer 44: The conduit 10127 shown to the gate access panel is in error – there is no other conduit called out to the gate access panel. However, the exact number and routing of conduit will depend on the gate equipment submitted by the contractor. Conduit 10104 from the MDP shown to the North Gate Slave Controller continues to the North Gate Master Controller. These same situations occur at the South Gate – Conduit 10134 to the South gate access panel is not needed, and conduit 10103 continues from the South Gate Master Controller to the Slave Controller. Drawing changes provided herein.**

Question 53: DWG #E-201 Is there a minimum dimension of the direct bury conduits that are passing under pump foundations P5, P6, P7?

Answer: A 10" minimum clearance from the top of direct buried conduits (or duct banks) to the bottom of any concrete pads shall be provided. Concrete pads include slab on grade, diesel pump equipment pads, electrical equipment pads and fuel line trench pads. However, no conduit shall be installed under column footers. Drawing changes are provided herein.

Question 54: DWG #S-501 Detail 4 equipment pad for vibrating machinery is an isolated concrete pad. Should all conduits coming to the vibrating machine be stubbed up outside of this isolated pad?

Answer: Yes. Drawing changes are provided herein.

Question 55: DWG #A-602 Wall section #2 shows the 10" slab under the fuel line trench, is there a minimum dimension of the direct bury conduits passing under this 10" concrete section?

Answer: See answer to question 53.

Question 56: Please provide slope/pitch for Steel Trusses.

Answer: The slope/pitch for the Steel Trusses is  $5 \frac{7}{16} : 12$ . Drawing changes are provided herein.

Question 57: Specification Section 055300 indicates Aluminum Grating Systems, is this specification section to be used for the trench drain grating as well as the elevated platform grating? Please note detail 9/S-502 indicates Stainless Steel grating. Please clarify what products are to be used where?

Answer: Aluminum Grating Systems are acceptable. Drawing changes provided herein.

Question 59: It appears that there are size, quantity, and location conflicts as it relates to the louvers. The architectural drawings (4/A-901) indicate 6 louver types whereas the mechanical drawings (M-601) indicate 3 exterior louver types. See our attempted comparison - LV-1 (mechanical type H), LV-2 (mechanical type I), LV-3 (mechanical type H), LV-4 (mechanical type J), LV-5 - not shown on mechanical, and LV-5A - not shown on mechanical? Which louver schedule governs as it relates to both size and locations? M-101 indicates 4 type H louvers on the East side of the building. Elevation 2 on A-502 does not indicate these louvers. Which document is correct? LV- 5 & LV5-5A are not indicated on print page M-101, are the actually required

Answer 59: The LV louver types on A-901 indicate the correct louver sizes. The sizes shown on M-601 are incorrect. LV-5 and LV-5A are proposed on A-601- Detail 2-MPS 306 Building Section above the lower roof slab but are not called out. LV-5 and LV-5A are also identified on A-602: Detail 2-Wall Section. The 4 louvers shown on the east wall of M-101 are not correct and should be labeled Exterior Windows EW-3 as shown on A-901. Drawing changes provided herein.

Question 63: Will signage be required, we found no schedule nor specification?

Answer 63: Signage is required. Two temporary signs will be installed for Project at designated locations. Specification changes are provided herein

Question 64: The size of the day tanks shown on Drawing Number P-901 calls for three (3) 75 gallon and on page 9 of Section No. 23 11 00 calls for 200 gallons for each day tank. Which is correct?

Answer: The day tank size for the diesel pumps indicated on P-901 is correct at 75 Gallons. The day tank size for the Generator is 200 gallons as noted correctly in Specification Section. The UL and NFPA requirements listed on P-901 and in the Specifications all apply. See Specification changes provided herein.

Question 65: Print page S-101 (slab plan) indicates for the 4 pump pads to be constructed per detail 3 on S-501. In reviewing section a on S-301 it appears that the thickness of the pad might be in question as it scales to over 2' thick. Please confirm?

Answer: The final dimensions of the electric pump slabs shall be determined based upon the final shop drawings for the approved pumps and must meet the clearance requirements provided in the process pipe system drawings. A 3'10" clearance height from the centerline of the suction pipes to the slab on grade is provided on D-301. The thickness of the slab shown in detail 3 on S-501 is identified as a 4" minimum but the height may be increased for clearance requirements. For bidding purposes, it is acceptable to assume a 2' thickness for the electric pump equipment pads.

## SPECIFICATIONS

1. Specification Section 01 50 00 –Construction Facilities and Temporary Controls .
  - a. Insert Paragraph 1.02.H. with the following:

1.02.H. Contractor to provide two – 4' x 8' Temporary signs which shall be constructed of a minimum ¾-inch Medium Density Overlay (MDO) plywood with 4-inch by 4-inch supports and 2-inch by 4-inch cross bracing. The sign shall be bolted to the support, allowing for easy removal during the Hurricane Preparedness Plan.

1. An experienced professional sign maker shall fabricate signs.
2. All hardware for signs shall be 316 Stainless Steel.
3. All sign face corners shall be rounded.
4. The content and location of the Temporary signs shall be submitted by contractor as a shop drawing and approved by County.

2. Specification Section 23 05 29- Hangers & Supports for HVAC piping and Equipment . Add Paragraph 1.2-C Materials as follows:

1.2-C-Materials: All Pipe Hangers and support systems shall be Type 316 stainless steel. This includes all rods, channels, pipe stands, anchor bolts, and ancillary hardware, unless approved by ENGINEER. Should specific piping and equipment specifications and drawing details identify materials for the pipe hangers and support systems that are not Type 316 SS, Contractor shall notify Engineer of conflict and provide Type 316 SS, unless otherwise specifically approved by Engineer. See drawing changes provided herein.

3. Specification Section 23 11 00-Fuel Oil Systems: Replace Paragraph 2.4. A with the following:

2.4-A: Provide 75 gallons fuel capacity packaged day tank systems for the diesel engine driven pumps. Provide 200-gallon fuel capacity packaged day tank system for the stand by generator. The packaged day tank systems shall capable of automatically delivering (self refilling) fuel supply from the new 4,000 gallon main aboveground fuel storage tank and transferring any fuel return/overflow back to the main tank. Approved day tank system and accessories: Simplex SRT series or approved equal.

4. Specification Section 40 07 64- Pipe Hangers and Supports Paragraph 2.02C shall be replaced with the following:

2.02- C: All Pipe Hangers and support systems shall be Type 316 stainless steel. This includes all rods, channels, pipe stands, anchor bolts, and ancillary hardware, unless approved by ENGINEER. Should specific piping and equipment specifications and drawing details identify materials for the pipe hangers and support systems that are not Type 316 SS, Contractor shall notify Engineer of conflict and provide Type 316 SS, unless otherwise specifically approved by Engineer. See drawing changes provided herein.

5. Specification Section 43 21 38 Chopper Pumps: Insert 3.06- G as follows

3.06-G: Field testing requires 24 consecutive hours on each pump. The contractor should anticipate an additional 120 hours (5 days) of startup testing during the 2 month testing/commissioning period for each pump. Therefore a total of approximately 144 hours of operation is expected for each pump.

6. Specification 43 31 16 Diesel Driven Centrifugal Pump: Insert 3.06-F as follows

3.06-F: Field testing requires 24 consecutive hours on each pump. The contractor should anticipate an additional 120 hours (5 days) of startup testing during the 2 month testing/commissioning period for each pump. Therefore a total of approximately 144 hours of operation is expected for

each pump. If the combined run time of the diesel pumps is anticipated to exceed the total allocated time of operation, Contractor shall contact OWNER for approval to utilize Bid Item 7: Allowance for Additional Work as Directed by the Owner for additional costs related to fuel consumption.

## DRAWINGS

1. C-102: Insert 4 note as provided below:

Note 4. Where feasible, maintain a 10 foot horizontal separation (outside to outside) between water main and new force main and a 5 foot separation horizontal separation (outside to outside) from existing force main to proposed force main. The minimum separation between the water main and new force main is 5.5 feet (center to center). The minimum separation between proposed force mains and existing force mains is 3.5 ft (center to center). When installing proposed force mains, the pipe bedding supporting existing utilities shall not be disturbed. Notify Owner and Engineer when the minimum separation cannot be achieved or if minimum separations require disturbing existing pipe bedding.

2. C-103: Revise the notes as noted below:

- a. Replace Note 6 with the following:

6. Prior to construction, Contractor shall perform soft digs of the existing force main to determine the exact horizontal and vertical location. Notify Owner and Engineer if field adjustment of the proposed force main is required.

- b. Replace Note 8 with the following:

8. Where feasible, maintain a 10 foot horizontal separation (outside to outside) between water main and new force main and a 5 foot separation horizontal separation (outside to outside) from existing force main to proposed force main. The minimum separation between the water main and new force main is 5.5 feet (center to center). The minimum separation between proposed force mains and existing force mains is 3.5 ft (center to center). When installing proposed force mains, the pipe bedding supporting existing utilities shall not be disturbed. Notify Owner and Engineer when the minimum separation cannot be achieved or if minimum separations require disturbing existing pipe bedding.

3. C-104: Insert note 5 as follows:

Note 5. Where feasible, maintain a 10 foot horizontal separation (outside to outside) between water main and new force main and a 5 foot separation horizontal separation (outside to outside) from existing force main to proposed force main. The minimum separation between the water main and new force main is 5.5 feet (center to center). The minimum separation between proposed force mains and existing force mains is 3.5 ft (center to center). When installing proposed force mains, the pipe bedding supporting existing utilities shall not be disturbed. Notify Owner and Engineer when the minimum separation cannot be achieved or if minimum separations require disturbing existing pipe bedding.

4. D-502: Detail 3 (Duct and Pipe Support)-Revise as follows:

- a. Delete all references to 304 SST and replace with Type 316 SS.

5. A-601: Detail 2-MPS Building Section: Label the Louvers above the Lower Roof Slab as Type LV5/LV-5A.

6. S-103: Add Note #7 to drawing as follows:

Note #7: The slope/pitch for the Steel Trusses is  $5 \frac{7}{16} : 12$ .

7. S-501:Detail 4(Equipment Pad); add the following note:

Note #3: Conduits serving vibrating machinery shall be stubbed up outside equipment pads.

8. S-502: Detail 9 (Trench Detail): Replace annotation for grating "316 SS H20 RATED GRATING" with "Aluminum Alloy 6063-T6 H-20 Rated Grating"

9. M-101: Mechanical Floor Plan: Delete existing Louver Symbols: H, I, and J and replace with Louver Types or Exterior Window Types as follows:

- a. Replace Symbols "H" with "LV1" for the three Louvers on the North face of the pump room.
- b. Replace Symbols "H" with "EW3" to identify the four exterior windows on the East face of the pump room.
- c. Replace Symbols "H" with "LV1" for the two Louvers on the South face of the pump room.
- d. Replace Symbol "I" with "LV2" for the one louver on the South face of the generator room.
- e. Replace Symbol "H" with "LV3" for the one louver on the West face of the pump room.
- f. Replace Symbol "J" with "LV4" for the one louver on the West face of the generator room.

10. M-102: Mechanical Floor Plan: Delete existing Louver Symbols: I, and J and replace with Louver Types as follows:
- Replace Symbol "I" with "LV2" for the one louver on the South face of the generator room.
  - Replace Symbol "J" with "LV4" for the one louver on the West face of the generator room.

11. M-501: Detail A3(Wall Pipe Support) Insert note as provided below:

Note 1. Use 316 SST nuts, bolts, and ancillary hardware.

12. M-502: Detail A4 (Electrical Generator, Exhaust & Ventilation Detail): Delete existing Louver Symbol "J" and replace with Louver Type "LV4"

13. M-503: Detail A12 (Duct Support Detail): Insert note as provided below:

Note 1. Use 316 SST nuts, bolts, hanger rods, and ancillary hardware.

14. M-601: Modify Air Distribution Schedule as follows:

- Replace Symbol "H" with Louver Type "LV1" and revise size of Louver from "96X100 Louver" to "11'X7'7" Louver"
- Replace Symbol "I" with Louver Type "LV2" and revise size of Louver from "60X72 Louver" to "5'4"X6'5" Louver"
- Replace Symbol "J" with Louver Type "LV4" and revise size of louver from "108 X 120 Louver" to "8'8" X 7'2".
- Add the following row to Air Distribution Schedule:

LV3	Exhaust/Intake	12'2"X10'	See DWG	See DWG	Aluminum Bird Screen.	ELF6375DXD
-----	----------------	-----------	---------	---------	-----------------------	------------

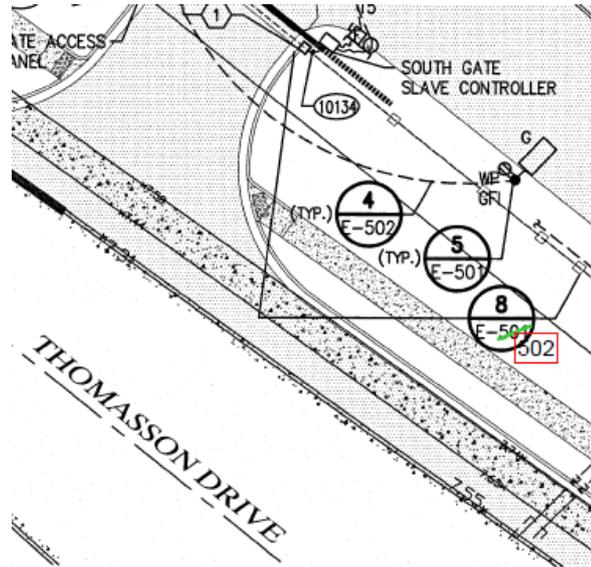
- Replace Note 3 as follows:

Note 3. Louvers specified by Section 08 91 19-Louvers. Refer to Architectural Drawings for exact sizes.

15. P-501: Detail A1 (Pipe Hangers-Clevis Type)- Revise Detail by inserting note as provided below:

Note 1. Use 316 SST for all materials.

16. E-101: Electrical Site Plan-Replace Call out Bubble 8/E-501 with 8/E-502. See figure below for clarification:



17. E-101-Electrical Site Plan; Revise Conduit Numbers on Conduit Lines as follows:
  - a. Delete Conduit Number 10134 labeled on the direct burial conduit line from the South Gate Access Panel to the Circuit
  - b. Delete Conduit Number 10127 labeled direct burial conduit line from the North Gate Access Panel to the Circuit
  - c. Add Conduit Number 10104 showing extension from North Gate Slave Controller to North Gate Master Controller
  - d. Add Conduit Number 10103 showing extension from South Gate Master Controller to South Gate Slave Controller
  
18. E-502: Detail 3 (Ductbank Concrete- Encased) and Detail 4 (Direct Burial Installation) -Add the following note 3 to both details:
  - a. Note 3: All direct burial conduit and direct burial conduit with concrete encasement must be a minimum of 10" below the bottom of the slab on grade, diesel pump equipment pads, electrical equipment pads and fuel line trench pads. No conduit shall be installed under column footers.