

**COLLIER COUNTY**  
**ADDENDUM No.6**  
**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:

QUESTIONS AND ANSWERS

Question 29: Plans state roof assembly as Single Ply, and specs are for the Modified Asphalt. Can you please clarify?

**Answer 29: Roofing to be SBS Modified Bitumen as specified. See drawing changes herein.**

Question 31: Reference Drawing P-100. Under Piping Materials the drawing calls for the Diesel Fuel Pipe to be Double Wall Schedule 40 Black Steel with Class 150 malleable iron screwed fittings, however Specification Section 23 11 00-8 Paragraph 2.3 calls for the fuel system to be Schedule 80 Steel Pipe with 3000 lb. forged screw fittings. If double wall piping is required, please provide a specification.

**Answer 31: Double wall fuel piping is not required for any portion of this project. Provide single wall schedule 40 Black Steel pipe with class 150 threaded fittings. See specification and drawing changes herein.**

Question32: Reference Drawing P-100, under piping materials, drawing calls for the Sanitary Waste and Rainwater Leaders to be Schedule 40 PVC Pipe, however Section 22 13 16-14, Paragraph 3.11 piping schedule calls for Cast Iron Soil Pipe. Please clarify.

**Answer 32: Provide Schedule 40 PVC piping with solvent fittings as specified on sheet P-100. See specification changes herein.**

Question 34: Please clarify diesel pump exhaust piping material to be considered. Piping schedule on G-006 indicate SS SCH 80 and also refer to

specs 433116 which refers to specs 402076 that calls for SS SCH 40. Also D-301 indicates Gauge 16 SS 316.

Answer 34: D-301 reference to the 16 GA SS is for the hot air exhaust duct. The 10 inch engine exhaust should be SCH 40 as identified in Specification Section 43 31 16 paragraph 2.17c and Specification Section 40 20 76 paragraph 2.01c. See drawing changes provided herein.

Question 35: Please provide technical specifications for oil/water separator indicated on dwg P-901

Answer 35: See specification changes herein.

### SPECIFICATIONS

1. Specification Section 22 13 16 Sanitary Waste & Vent Piping revise as follows:
  - a. Insert Paragraph 3.11-B.3. with the following:  
Or Schedule 40 PVC piping with solvent fittings
  - b. Insert Paragraph 3.11-C.3. with the following:  
Or Schedule 40 PVC piping with solvent fittings
  - c. Insert Paragraph 3.11-D.4. with the following:  
Or Schedule 40 PVC piping with solvent fittings
  - d. Replace Paragraph 3.11-E.3. with the following:  
Or Schedule 40 PVC piping with solvent fittings
  - e. Replace Paragraph 3.11-F.3. with the following:  
Or Schedule 40 PVC piping with solvent fittings
  - f. Replace Paragraph 3.11-G.3. with the following:  
Or Schedule 40 PVC piping with solvent fittings
  
2. Specification Section 22 13 19 Sanitary Waste Piping Specialties, insert Paragraph 2.10 as follows
  - 2.10 OIL SEPARATORS
    - A. Oil Separator:
      1. Plastic Oil Separators:
      2. Type: Factory-fabricated interceptor for separating and removing light oil from wastewater.
      3. Location Requirements: Provide two (2) C24-HP load bearing access covers.
      4. Body Material: Plastic.
      5. Interior Lining: Not required.
      6. Exterior Coating: Not required.

7. Flow Rate: 100 gpm.
  8. Inlet and Outlet Size: 4 inches.
  9. Volume: 500 gallons
  10. End Connections: Plain.
  11. Cleanout: Integral or field installed on outlet.
  12. Mounting: Recessed, flush with floor.
  13. Flow-Control Fitting: Required.
  14. Descriptive Type or Function: Collection of repair shop trench drain system.
3. Specification Section 23 11 00 Fuel Oil Systems, replace Section 2.3 with the following:

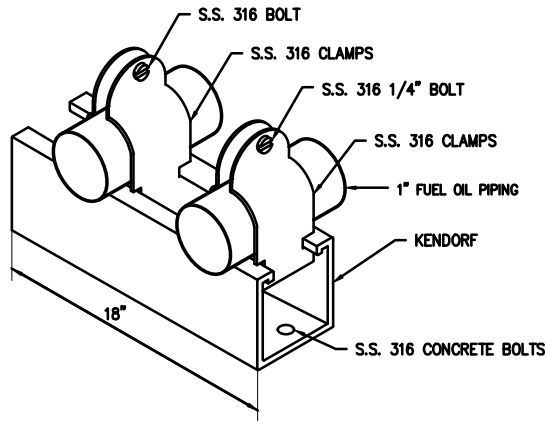
### 2.3. Fuel Pipe and Fittings

- A. Steel Pipe: ASTM A 53/A 53M, black steel, Schedule 40, Type E or S, Grade.
  1. Malleable-Iron Threaded Fittings: ASME B16.3, Class 150, standard pattern.
  2. Wrought-Steel Welding Fittings: ASTM A 234/A 234M, for butt and socket welding.
  3. Unions: ASME B16.39, Class 150, malleable iron with brass-to-iron seat, ground joint, and threaded ends.
  4. Forged-Steel Flanges and Flanged Fittings: ASME B16.5, minimum Class 150, including bolts, nuts, and gaskets of the following material group, end connections, and facings:
    - a. Material Group 1.1
    - b. End Connections: Threaded or butt welding to match pipe.
    - c. Lapped Face: Not permitted underground.
    - d. Gasket Materials: Asbestos free, ASME 16.20 metallic, or ASME B16.21 nonmetallic, gaskets compatible with fuel oil.
    - e. Bolts and Nuts: ASME B18.2.1, cadmium-plated steel.
- B. Provide fire resistant hangers, supports, brackets, waterstop/anchor collar or Link-Seal wall sleeves as required. Not all pipe supports or hangers required are shown in the drawings. Provide pipe supports for every piping system installed. Pipe support and hanger components shall withstand the dead loads imposed by the weight of the pipes, fittings, and valves (all filled with fuel), plus valve actuators and any insulation. Pipe hangers and supports shall comply with MSS SP-58 and be constructed of stainless steel.
- C. Aboveground Carbon Steel Piping shall be painted using a high build epoxy system with polyurethane top coat as noted below. Color to be red.
  1. Surface Preparation: SSPC SP-6
  2. Prime Coat (3 mils): Tnemec 90-96 or approved equal

3. Intermediate Coat (5 mils): Tnemec 104 or approved equal
4. Finish Coat (2 mils): Tnemec 1075 or approved equal

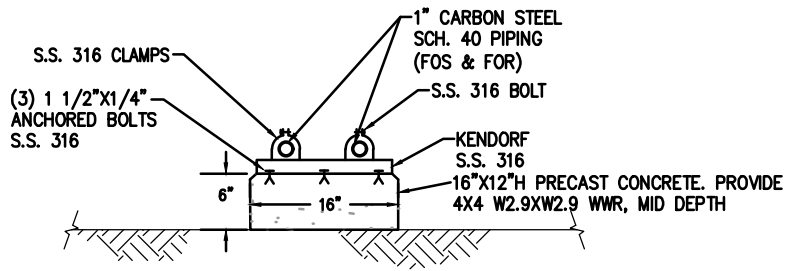
DRAWINGS:

1. On Sheet G-006: Revise Process Piping Schedule as follows:  
Ex-1, Exhaust, stainless, 12 inch and smaller shall be "SCH 40".  
Delete the reference to "SCH 80".
2. On Sheet C-104: Replace Note 3 as follows:  
Note 3. Prior to construction, contractor shall perform soft digs of the existing force main to determine the exact horizontal and vertical location. Notify the owner and engineer if field adjustment of the proposed force main is required.
3. On Sheet D-301: Replace Note 3 with the following:  
Note #3. The Diesel Pumps cooling system's exhaust duct shall be 16 Gauge Type 316 Stainless steel per ASTM A666; Provide standing drive joint connections. Engine exhaust (EX-1) shall be schedule 40 stainless steel.
4. On Sheets A-401, A-601 and A-801: Delete the "Single Ply" annotation and replace with "SBS Modified Bitumen".
5. On Sheet P-501: Modify diesel pumps schematic by deleting "double wall piping in trench".
6. Drawing P-502 Plumbing Details II: Modify sheet by inserting "Fuel Piping Support Detail" as provided in Attachment 1 as detail A12.

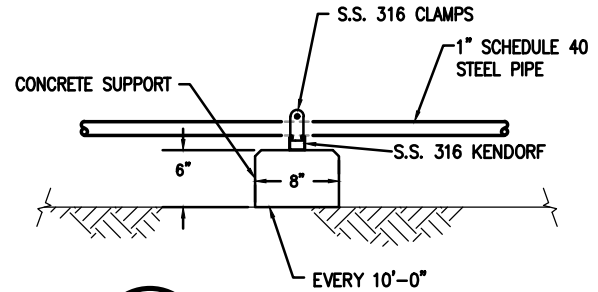


**PIPE SUPPORT ON CONCRETE**

NOT TO SCALE



**A SECTION**  
SCALE: NOT TO SCALE



**B SECTION**  
SCALE: NOT TO SCALE

NOTE: PROVIDE 3/4" CHAMFER ALONG ALL UPPER EDGES OF CONCRETE PIPE SUPPORT.

**A12 | FUEL OIL PIPING SUPPORT**

NOT TO SCALE



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WASTEWATER BASIN ANALYSIS-BASIN 306-MASTER PUMP STATION 306

FUEL PIPING SUPPORT DETAIL

DETAIL

A-12