Collier County
Public Utilities Department
Engineering & Project Management Division

BID ADDENDUM NUMBER ONE
for
CARICA PUMP STATION WATER MAIN IMPROVEMENTS
Solicitation No. 18-7486

ISSUE DATE: Thursday, September 27, 2018

The following changes, additions, deletions and/or clarifications are made to the Contract Documents and Specifications for the above referenced project:

GENERAL

1. SITE VISITS

Collier County will allow access and provide site visits to bidders at the Carica Pump Station located at 7200 Goodlette-Frank Road (just south of Vanderbilt Beach Road), Naples, FL on Tuesday, October 2, 2018 at 9:00 a.m. and on Wednesday, October 3, 2018 at 2:00 p.m. See Attachment #1 for location map.

A site visit is not mandatory but is highly recommended by Collier County.

2. BID DEADLINES

No change has been made to the due date. As a reminder to potential bidders:

- Deadline to send in questions is close of business on 5:00 p.m. Wednesday, October 10, 2018.
- Bid submittals are due on or before 3:00 p.m., Wednesday, October 17, 2018.

CLARIFICATION

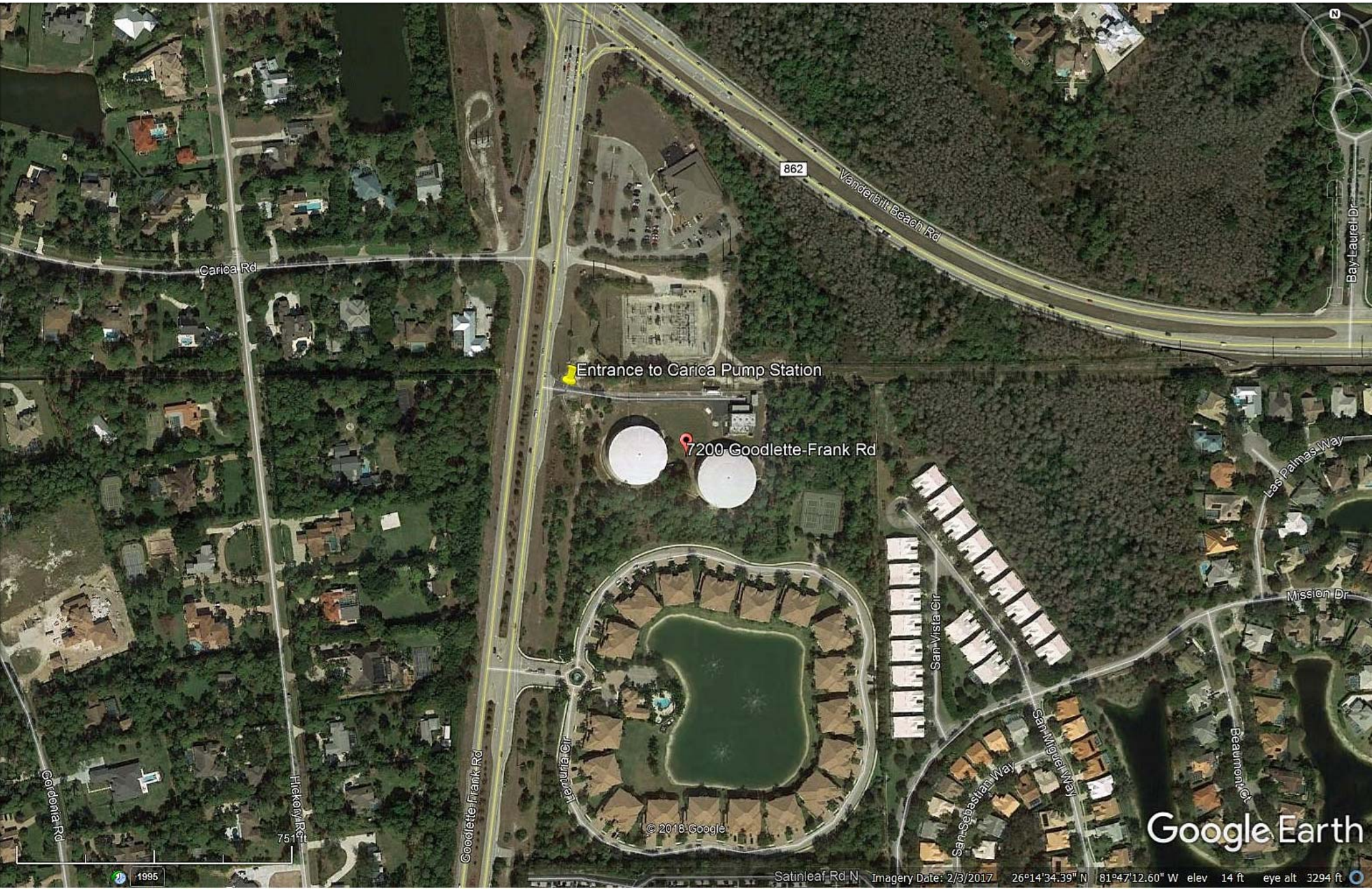
3. EAST TANK FILL LINE

The east tank fill line (not shown on construction plans, out of plan view) may be utilized to fill both tanks during construction and shut down of the west tank fill line. See Attachment #2 for location map.

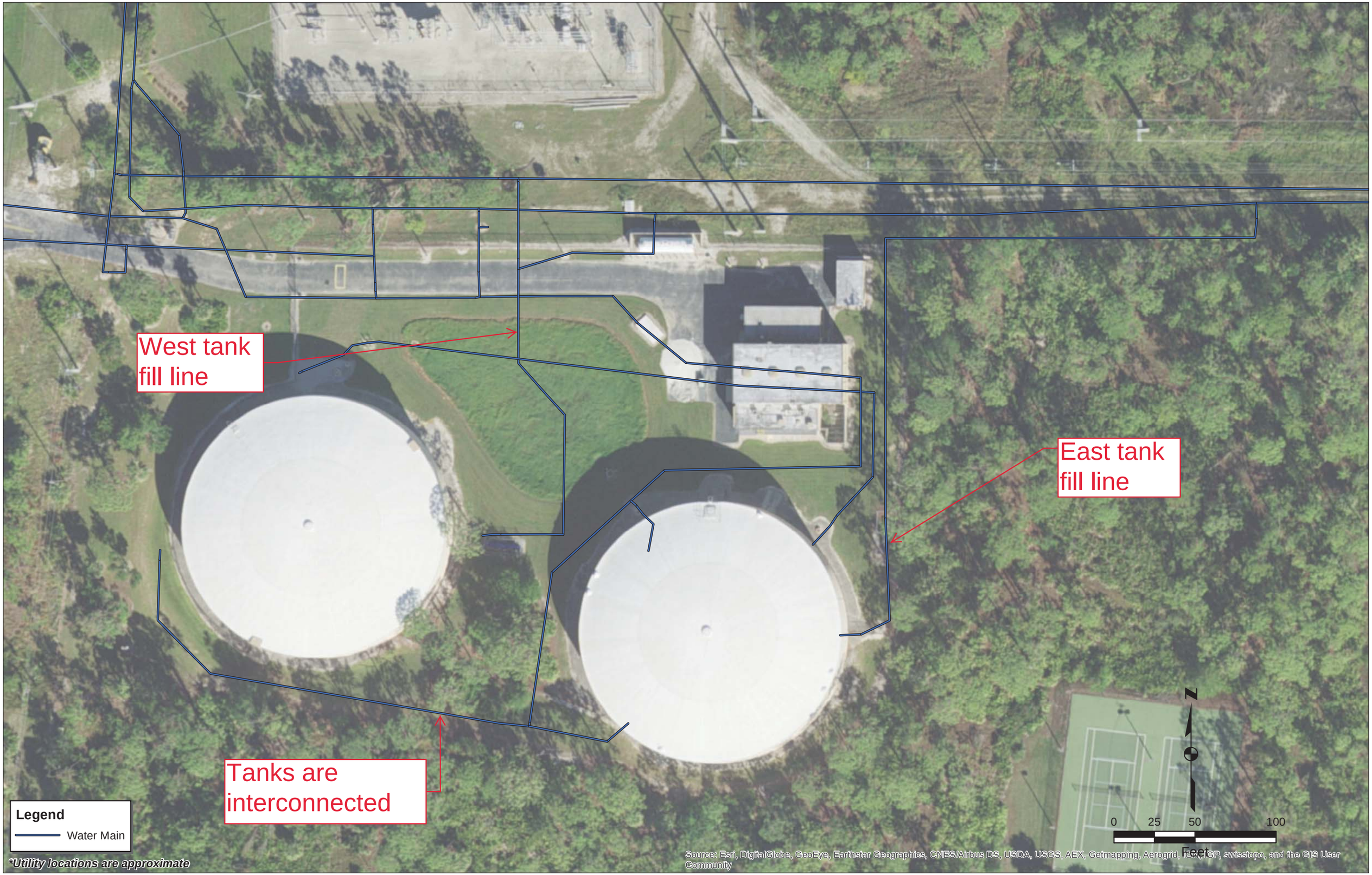
TECHNICAL SPECIFICATIONS

4. Remove and replace in the bid documents Technical Specification *30" Bypass Valve Assembly Sequence of Operation* dated 8/23/2018 with the attached updated Technical Specification *30" Bypass Valve Assembly Sequence of Operation* dated 8/31/2018. See Attachment #3 for updated specification.

ATTACHMENT #1


Entrance to Carica Pump Station
7200 Goodlette-Frank Rd
862
Vanderbilt Beach Rd
Carica Rd
Bay Laurel Dr
Las Palmas Way
Mission Dr
San Vista Cir
San Miguel Way
San Sebastian Way
Beaumont Ct
Goodlette-Frank Rd
Jamuna Cir
Gordonia Rd
Hickory Rd
751 ft
1995
© 2018 Google
Google Earth
Satinleaf Rd N
Imagery Date: 2/3/2017
26°14'34.39" N
81°47'12.60" W
elev 14 ft
eye alt 3294 ft

ATTACHMENT #2


West tank
fill line
East tank
fill line
Tanks are
interconnected
Legend
Water Main
*Utility locations are approximate
N
0
25
50
100
Feet
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

ATTACHMENT #3

Collier County Public Utilities

Carica Pump Station Water Main Improvements

30” Bypass Valve Assembly
Sequence of Operation

Bypass Valve Assembly

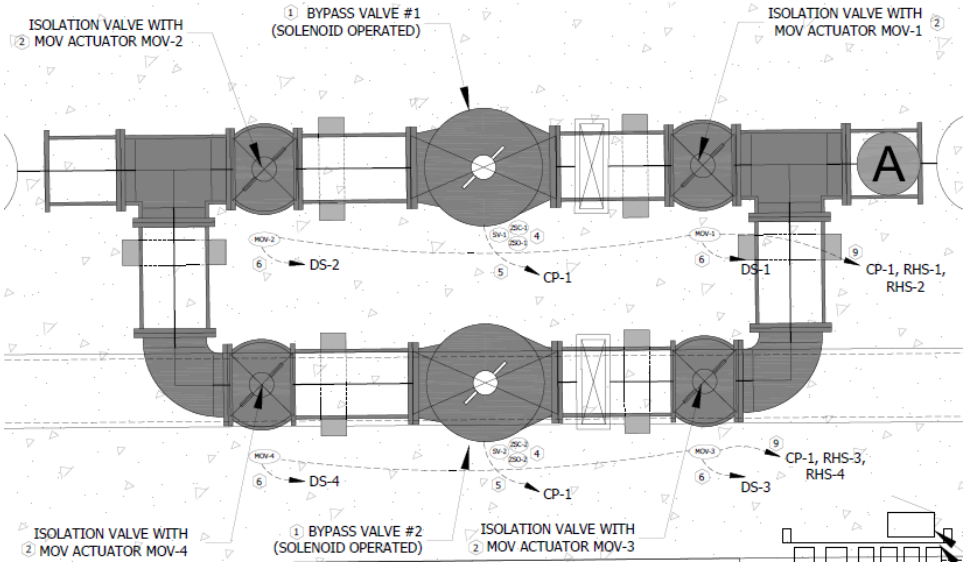
The bypass valve assembly for the Carica Pump Station is intended to allow Collier County staff to direct water flow at the pump station site locally or remotely. The water flow may be directed to either one of two 5-million-gallon storage tanks, or to bypass the tanks and flow to the water distribution system.

The bypass valve assembly will consist of the following:

- Two (2) Bypass Valves (Bypass Valve #1 & #2). The Bypass valves will allow water flow to be directed to the storage tanks or distribution system.
    - Bypass Valve Information
        - Bermad Solenoid-Controlled Diaphragm Valve
        - Model WW-30"M5-710-03-G-C-A5-EV-4DO-NN-NSS66
        - This valve is designed to "Fail Open"
        - See *Bypass Valve* Specifications and Construction Plans provided in the bid package.

- Four (4) Motor Operated Valves (MOV #1 – #4). The Motor Operated Gate Valves will allow for the Bypass Valves to be isolated for maintenance purposes. These valves are to be operated locally ONLY. Each MOV will have its own Remote Hand Station (RHS) located locally at the valve assembly.
    - Valve Information
        - Rotork Multi-Turn Actuators with Gate Valve
        - Model IQ3-40, 86 RPM.
        - See *MOV Actuator* Specifications and Construction Plans provided in the bid documents.

Below is the Schematic of the Proposed Valve Assembly. Bypass Valve #1 is intended to be the primary, while Bypass Valves #2 is intended to be the secondary, or backup, in the event Bypass Valve #1 is out of commission.



Valve Assembly Control Strategy

There will be three (3) modes of operation:

Local HAND Mode

When the HAND-OFF-AUTO selector switch is switched to HAND Mode, the Bypass Valve shall revert to its “shelf state”, de-energize, and open fully. This valve is designed to “fail open”.

Local OFF Mode

When the HAND-OFF-AUTO selector switch is switched to OFF mode, the Bypass Valve shall energize and close fully.

Local AUTO Mode

When the HAND-OFF-AUTO selector switch is switched to AUTO mode, the operator is able to set the operating mode remotely through the SCADA system and the Bypass Valve will be PLC controlled.

Valve Assembly SCADA

The SCADA system shall perform the following:

Bypass Valve #1 and #2

- Remote Operation through the SCADA system

SCADA HAND Mode

When the Bypass Valve is set to AUTO mode locally and the SCADA is switched to HAND Mode remotely, the Bypass Valve shall revert to its “shelf state”, de-energize, and open fully. This valve is designed to “fail open”.

SCADA OFF Mode

When the Bypass Valve is set to AUTO mode locally and the SCADA is switched to OFF mode, the Bypass Valve shall energize and close fully.

SCADA AUTO Mode

When the Bypass Valve is set to AUTO mode locally and the SCADA is switched to AUTO mode, the Bypass Valve is dictated by the following:

Storage Tank Level

If the water level in the storage tank is less than the SCADA low low level setpoint, the Bypass Valve shall open.

Pressure Transmitter at Pump House

If the pressure in the pump house is less than the SCADA low low level setpoint, the Bypass Valve shall open.

Pumps Running

If NO pumps are running in the pump house, the Bypass Valve shall open fully. If at least one (1) pump is running in the pump house, the Bypass Valve shall close.

Bypass Valve Minimum Open Time

If the Bypass Valve receives an open command, it shall open, and shut down the pumps in the Pump House. Anytime the Bypass Valve is open, the Bypass Valve shall remain open for a minimum of thirty (30) minutes.

- Status
  - Fully Opened
  - Fully Closed
  - Intermediate Position
- Alarms
  - Fail to Open
  - Fail to Close
  - Low Tank Level
  - Low Pressure Level

- SCADA Notifications
  - The SCADA system shall notify the operator if the following conditions are met:

    - If the Bypass Valve opens due to a low tank level.

    - If the Bypass Valve opens due to a low pressure at the pump house.

    - The Bypass valve closes due to at least one (1) pump running in the pump house.

    - The Bypass valve opens due to no pumps running in the pump house.

- History
    - Status History with Time Stamps
    - Alarm History with Time Stamps
    - Number of Openings per Day
    - Number of Closings per Day
    - Total Number of Openings
    - Total Number of Closings

Motor Operated Valves #1 – #4

- Status
    - Opened, Closed, Opening, Closing, Remote Control, Local Control, Actuator Position, Actuator Starts
- Alarms
    - Fail to Open
    - Fail to Close
    - Valve Jammed or Obstructed
    - Torque Trip
    - Monitor Relay
- History
    - Status History with Time Stamps
    - Alarm History with Time Stamps
    - Number of Openings per Day
    - Number of Closings per Day
    - Total Number of Openings
    - Total Number of Closings