



May 26, 2016

Jason Wilkie
Pedal Valves
13625 River Rd.
Luling, LA 70070

Subject: - Hollywood, FL: Aclara Equipment Removal.

Jason,

We will remove and dispose of the Aclara equipment as requested in yesterday's discussion with Mark.

Removal of 33 of the locations is relatively straight forward – although a few sites do require the addition of a flagman and “arrow boards” in addition to a bucket truck and operator (electrician). However, the radio at the West Elevated Tank is an issue due to its location on the tank. If we can remove it when we install the R900's on the tank, we will do it at no additional charge. If we have to go back and remove it at a later date, the cost will be significant. It will require a certified tower climber to remove it from the cat-walk railing.

Project Overview:

Remove 33 “pole” mounted radios, antennas & coax, brackets, and solar array. Remove and dispose of batteries consistent with EPA guidelines. The solar panels will be disposed of in a manner consistent with current regulations for disposal of hazardous waste. The remaining parts will be disposed of consistent with local codes and regulations.



1458 Cove Hill Court, Longwood, FL 32750

May 10, 2016

Proposal HO160510PV

Jason Wilkie, Vice President
Pedal Valves, Inc. 13625 River Rd.
Luling, LA 70070

Subject: Hollywood, FL – R900 Gateway Installation
Reference: CSG Site Survey Notes: March 31, 2016
DCU Location Map2 spreadsheet received March 24, 2016
Scope Change Request dated April 21, 2016 – Terry Gullett
Email: from Robert Thomas to Terry Gullett et.al. dated May 10, 2016; 9:28 AM ET

Jason,

CSG Data Networks, Inc. (CSG) is pleased to submit our modified proposal for installing the R900 Gateways in Hollywood, FL. There will be 24 Gateways installed on street-light poles and three (3) installed on the West Elevated Tank. This is an increase of two (2) to the quantity requested in the Scope Change (referenced) due to installation restrictions at the West Elevated Tank.

An option to increase the quantity of Gateways installed is included.

Project Overview:

The 24 gateways to be installed on the streetlight poles will be solar powered. The three (3) gateways to be installed at the West Elevated Tank will be mounted on an H-Frame at the base of the tank and will be AC powered. The City committed to provide the electrical circuit for these Gateways.

The Gateways at the West Elevated Tank will be deployed with Omni PCTel MFB9155NF antennas. This antenna is the only approved antenna for the R900 Gateway. It is recommended that the antennas be 120° sector antennas due the mounting location required (cat-walk rail) to mitigate any possible interference with the SCADA systems deployed at the top of the tank. Deploying “omni” antennas in this scenario will cause performance degradation of the Gateways. 120° sector antennas are commercially available and are strongly recommended.

CSG will provide all required installation material with the exception of the Gateways, antennas, and Solar systems.

Final configuration and testing of the Gateways will be completed by others.

Project Details:

- Perform a detailed “site survey” to identify potential problems and identify alternate locations where possible to mitigate potential problems,
- Install R900 Gateways and solar systems (street light poles) as identified in the referenced documents and subsequent updates,



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Requirements: Proposal is based on the following requirements:

- Mounting assets are structurally sufficient, provide adequate space for mounting required brackets, and approval to deploy on the asset has been granted,
- All equipment will be installed per the manufacturers requirements,
- All antenna connections shall be weather-proofed in accordance with manufacturers and/or industry standards,
- A dedicated 120 VAC branch circuit terminating in a Junction Box must be available within 25 feet of the R900 equipment at the West Elevated Tank. CSG will provide the electrical connection to the Junction Box,
- Proposal does not include removal of the existing Aclara equipment,
- Permits (if required), leases, and/or approvals must be obtained by others prior to the start of installation,
- Changes to equipment quantity, type, and/or proposed mounting sites will require a change order,
- Proposal valid for a period of 30 days from date of proposal,
- Price does not include permits, fees, bonds, taxes or other costs not specifically identified as included in this proposal,
- CSG will provide an "as-built" installation document at the conclusion of the installation.

Option A:

Install additional Gateways on City owned/maintained streetlight poles. Additional Gateways will be solar powered.