

## **City Of Commerce City Buffalo Run Golf Course**

### **Irrigation Control Replacement Scope of Work 2015 Project**

#### Project Overview:

The purpose of this project is to replace the aging and failing control system of the irrigation system in order to continue to irrigate the golf course effectively. The replacement of this system will also allow for increased control of the system by having individual sprinkler control instead of having two sprinklers attached to one station. The addition of sprinklers (back up heads) around the greens will also provide better control of the irrigation on and around the greens, which will help improve the condition of the turf as well as the playability of the golf course.

#### Golf Course Personnel Responsibilities:

- Golf course personnel will complete the sprinkler numbering system. This will be completed prior to start of installation of satellites.
- Golf course personnel will label the wiring inside the satellite, clean the inside of the satellite control box of all debris, and lubricate the bolts holding the satellite to the concrete pads.

#### Contractor Responsibilities:

Satellite controller installation.

- Disconnect all wires and remove old satellite control boxes.
- Make repairs to concrete pads and add additional pads as needed.
- Install new satellite control boxes. (VP)
- Connect all wires as labeled.
  - Any wire connections made outside of control box must be made in a standard valve box using direct burial connections DBR/Y-B.
- Install "Add –A – Zones" where indicated on map provided by golf course staff.
  - Digging up sprinkler heads to install add-a-zones, as well as turf repair work to the disturbed area will be required.
- Test and ensure that all stations function properly and that the location of each station matches the map provided.
- Install back up sprinkler heads and "Add – A – Zones" as indicated on map, see Exhibit "B" for total number of "Add –A –Zones" required.
- Install new irrigation computer and program. (Toro Lynx)
- Install field interface unit and hand-held radio interface.
- Determine optimal location for Vertex repeater and install device.
- Install new antenna and cable assembly on the maintenance facility roof.

General Statements:

- Project start date is set for August 31, 2015.
- Contractor is responsible for obtaining all permits required for the project.
- All digging/trenching by contractor that requires the use of machinery or tools (other than a hand-held shovel) must be pre-approved by Kirk Reiber. Golf course staff will assist by locating all irrigation components prior to machine digging/trenching.
- Contractor is responsible for repairing all damage to any golf course property resulting from contractor's actions.
- Project close out date is November 30, 2015. Liquated damages in the amount of \$100.00 per day will be paid in the event that the project is not completed by November 30, 2015.