



**Buffel
Grass**[®]
SEED COMPANY, INC.

The Buffel Grass Seed Company, Inc.

Irrigation Division

Texas License: LI0015535

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Proposal

"The Grass Is Always Greener On Our Side Of The Fence"

October 21, 2016

Nueces County Inland Parks
4540 FM 892
Robstown, TX 78380

We are please to present our quote below for West Haven Park.

Scope:

- Post Emergent Treatment
 - The 180 ft x 300 ft sports field area plus a 20 ft plus buffer zone will be sprayed with Round-up or equal to kill existing grass and weeds prior to any dirt work (this kills existing weeds but doesn't prevent new weeds from germinating from seeds present).
- Rough Grading
 - Haul in 1,620 CY of top soil to the site
 - Use existing pile of top soil left by concrete contractor (approximately 360 CY)
 - Using the above (1,620 CY and the 360 CY of topsoil, we will build up the area where the sports field (180 ft x 300 ft) is shown on the print. The field will be raise as much as possible as the above soil will allow (estimated between 3 -6 inches depending on cubic yards consumed when filling low areas and volume lost due to compaction when roller is applied).
 - Some of the above top soil will be used to grade between the field and the surrounding new walking trail.
 - We will slope the field and center area such as to force most of the runoff toward Darcey Drive, Rockford Drive and Cliff Maus Drive. The goal is to minimize runoff to the south which faces the Westhaven Terrace Subdivision. We are limited by the elevations of the walking trail around the subject area.
- Installation of Irrigation System for the Sports Field
 - We will install an irrigation system to water the 180 ft x 360 ft sports field
 - The outer rotary heads will be set to water 360 degrees to create a buffer zone (green zone) around the field to keep the turf healthy on the field as well as 20 ft or so around the field
 - Components
 - Hunter Controller (Pro-C with needed modules)
 - 13 zones +/-
 - 104 Rotary Hunter PGP Heads +/- or equals
 - Rain Sensor
 - All 13 electric control valves will be 10 inch valve boxes with bolt on lids so kids cannot remove them and create a tripping hazard. Owner would be responsible to keep up with lids after initial installation.
 - All Electric Valves and valve boxes will be outside the playing field for safety
 - We will run at least one extra wire for spare
 - We will use the existing 2 inch Back Flow Preventer (Pressure Vacuum Breaker) that belongs to the City of Corpus Christi Parks Dept. We will tie-in to the discharge line after the backflow preventer and put an isolation valve for this system and put an isolation valve to the existing system that the City of Corpus Christi Parks Dept. has currently idle in case they ever want to bring it up again. The existing water meter and isolation valve will be re-used.
 - Backflow Preventer will be re-certified

- The existing stainless steel enclosure where the park's irrigation controller is will be used for the new controller. The enclosure has a power supply which we will use for the new controller.
 - The concrete pedestal where the enclosure sits will be leveled as it is currently leaning.
- Fine Grading and addition of Soil Amendments
 - We would bring about 80 CY of ground compost (soil amendments) and spread it throughout the field. This is equal to about ½ inch of soil amendments
 - We would then apply the soil conditioner attachment to mix the soil amendments with the top soil.
 - We would then back drag the field to fine grade it
 - We would finally run a roller to create some mild compaction; however, we don't want to compact the soil too much as we need to leave a good seed bed for hydro-mulching
- Hydro-mulching
 - We would hydro-mulch the 180 ft x 300 ft sports field plus the 20 ft buffer zone around it with:
 - Bermuda Triangle or Magestic Bermuda (customer choice)
 - Panterra Turf Rye-grass

Cost = \$49,000.00

Irrigation in Texas is regulated by the Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087.

Buffel Grass Seed Company, Inc.
(Irrigation Division)

Acceptance

Date



SITE WORK * SITE UTILITIES

1. Fine Grading and Addition of soil Amendments

We would bring about 80 cy of ground compost and spread it throughout the field. This is equal to about ½ inch of soil amendments.

We would then mix the soil amendments with the top soil.

We would then back drag the field to fine grade it.

2. Rough Grading:

Haul in 1,620 CY of top soil to the site.

Use existing 360CY +/- pile of top soil left by concrete contractor.

With the 1,620 CY of topsoil and 360 CY we will build up the area where the sports field (180 ft x 300 ft) estimated at 3 inches plus depending on cubic yards used to fill low areas and due to compaction when roller is applied.

He will also grade between the field and the surrounding new walking trail.

We will slope the site such as to force most of the runoff toward Darcey Drive, Rockford Drive and Cliff Maus Drive. We will minimize runoff to the south which faces the Westhaven Terrace subdivision

3. Installation of Irrigation System for the Sports Field.

We will install an irrigation system to water the 180 ft x 360 ft sports field.

System

Existing stainless steel enclosure where the park's irrigation controller is will be used for the new controller as requested by customer. The enclosure has a power supply which we will use for the new controller.

The concrete pedestal where the enclosure sits will be leveled.

Rainbird Controller

12-14 zones +/- or equals

96 Rotary Hunter PGP Heads +/- or equal

Rain Sensor

Electric Valves and valve boxes will be outside the playing field for safety.

Existing 2 inch Back Flow Preventer that belongs to the City of Corpus Christi Parks Dept. and the existing water meter and isolation valve will be re-used.

Backflow Preventer will be re-certified.

4. Hydro-mulching

We would hydro-mulch the 180 ft x 300 ft sports field with Bermuda Turf Rye-grass

5. We would finally run a roller to create some mild compaction.

6. Post Emergent Treatment

The 180 ft x 300 ft sports field area will be sprayed with Round-up or equal to kill existing grass and weeds prior to any dirt work.

Quote Amount : 51,420.00



October 29, 2016

Nueces County
Attn: Mr. Edward
5445 FM 892
Robstown, TX 78380

**Re: Westhaven Park Irrigation and Site Grading
Construction Proposal**

Dear Mr. Herrera,

In accordance with your request, International Consulting Engineers (ICE) is pleased to furnish the following proposal for the construction of the irrigation and seeding of the sports field in relation to the Westhaven Park. The following is the scope of work for the project:

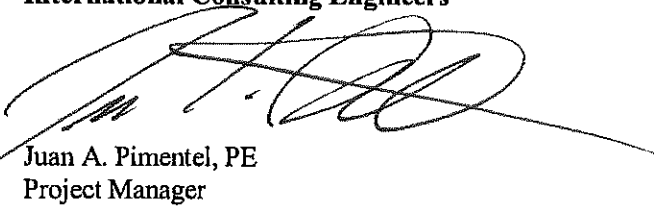
- Install Irrigation System for the new sport field (180 ft x 360 ft)
- Haul 1,620 of fill material, which will include using the existing stockpile
- Rough and fine site grading for the new field
- Hydro-mulching with Bermuda Turf Rye-Grass
- Apply Post Emergent before seeding

Exclusion: All permit fees shall be paid by Nueces County

ICE proposes to furnish all materials and labor to perform all work *for a lump sum of \$54,200.00 (Fifty-Four Thousand Two Hundred Dollars and Zero Cents)* which cost shall cover all items of any nature whatsoever needed to perform to the work called for this proposal

We appreciate the opportunity to be of service. Should you have any questions concerning this proposal, please do not hesitate to contact me at (361) 826-5805 or jj@icengineers.net

Sincerely,
International Consulting Engineers



Juan A. Pimentel, PE
Project Manager