
ADDENDUM NO. 3

Date: November 16, 2021

Project: City of Tuscaloosa
Campus Area Water Distribution System and Instrumentation Upgrades
Proposal “D” – Water Booster Station Package
City Project Numbers: 2018.019.004 / A21-1388
DWSRF Project Number: FS010085-03 Contract 2D

Bid Date: Thursday, November 18, 2021
2:00 p.m. local time

The following changes, additions, clarifications, and/or deletions are hereby made part of the Contract Documents for the project referenced above as fully and completely as if the same were set forth fully therein:

1. For Clarification:

- The contractor and the building manufacturer shall coordinate the foundation design based on building loading and provide shop drawing for approval. Thickness shown in drawings shall be considered minimum.
- The electrical service is 480 volts. The building electrical panel to provide service for lights, HVAC Unit, convenience outlets and SCADA shall be 120/240 volt. The pump station shall include a step down transformer to facilitate the difference in voltage.
- APCO Service -
There will be no charges to the Contractor for Alabama Power Company service.
- Gas Company Service -
SPIRE Energy will run the service line, set meter for the back-up generator at no charge to the Contractor.
- Fence -
See attached Technical Specification Section 02444 Chain Link Fencing and Gates for fabric (Vinyl Coated) fencing and accessories.

Attachments:

Technical Specification Section 02444 – 5 Pages

**THIS ADDENDUM CONSISTS OF ONE (1) TYPEWRITTEN PAGE AND ONE (1) ATTACHMENT
CONSISTING OF FIVE (5) PAGES, FOR A TOTAL OF SIX (6) PAGES.**

RECEIPT OF ADDENDUM NO. 3

The following hereby acknowledges receipt of Addendum No. 3, dated November 16, 2021.

Complete the following and return by fax to (205) 759-1524 or scan and email to dmadison@mcgiffert.com

We are in receipt of Addendum No. 3 and fully understand the contents and our bid on the above referenced project submitted reflects the intent of this Addendum.

Contractor Name

*By: _____

Date: _____
* *Signature must be by person legally qualified to sign bid.*

SECTION 02444 – CHAIN LINK FENCING AND GATES

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SECTION 02444 – CHAIN LINK FENCING AND GATES

PART 1 - GENERAL

1.1 WORK INCLUDED:

- A. The contractor shall furnish and install chain link fencing as shown on the drawings and as specified herein. The fencing shall be installed complete with all accessories, fittings, and fastenings.
- B. In general, the items of work to be performed under this Section shall include, but not be limited to, providing all materials, equipment, tools and labor to complete the work as noted in the specifications and indicated on the drawings.

1.2 QUALITY ASSURANCE:

- A. For actual installation of chain link fencing and gates, use only personnel completely trained and experienced in installation of the approved materials and thoroughly familiar with the original design and the approved Shop Drawings.

1.3 SUBMITTALS:

- A. Submit shop drawings to the Engineer in accordance with Section 01300 of these specifications.

1.4 PRODUCT HANDLING:

- A. Protection:
Use all means necessary to protect chain link fencing materials before, during, and after installation and to protect the installed work and materials of all other trades.
- B. Replacements:
In the event of damage, immediately make all repairs and replacements necessary to the approval of the Engineer and at no additional cost to the Owner.

1.5 CHAIN LINK FENCING MATERIALS:

- A. Fabric (Galvanized Steel):
 - 1. General:
The chain link fabric shall be woven into a 2" diamond shape mesh in which the individual pickets are helically woven and interwoven in the form of a continuous chain link mesh. The galvanized-after-weaving chain link fabric shall be a 9 (.148") gauge woven of good commercial quality steel wire with a uniform square mesh measuring 2" between its parallel sides, galvanized after weaving by the hot dip process to give a minimum of 1.2 ounces of zinc per square foot of wire surface distributed over the entire fabric including the cut ends, as per ASTM A-392, Class I. The following minimum breaking strength shall apply as per U.S. Government Spec. RR-F-191/1A. 9(.148") gauge-1290 lbs.
- B. Fabric (Vinyl Clad):
 - 1. General:
The chain link fabric shall be woven into a 2" diamond shape mesh in which the individual pickets are helically woven and interwoven in the form of a chain link mesh. The chain link fabric shall be vinyl coated, nine (9) gauge steel. The vinyl coating shall be a minimum 7 mil. polyvinyl chloride plastic resin. Color shall be selected by the engineer from standard manufacturer's color.

C. Framing:

1. General:

Unless otherwise stated in this section all steel parts shall be galvanized by the hot dip process in accordance with the relevant ASTM specification and vinyl coated to match fabric color.

Pipe-ASTM A-120, A53 Grade B or SS40 (Schedule 40)

Hardware-ASTM A-153

Barbed Wire-ASTM A-121, Class 3

Round, Square and C-Posts-ASTM A-123

All pipe sizes shown are nominal dimension unless noted O.D. (outside diameter).

D. Line Posts:

1. Line posts shall be galvanized steel sections, vinyl coated, as listed below or equivalent:

Fence Height Excluding Barbed Wire	Roll Formed "C"	A-120	A-53	SS40
8' or less	1.875"x1.625"x2.34 #Ft	2.5"x5.79 #1	2.0"x3.65 #1	2" x 3.12 #/1
8' or more	2.250"x1.700"x2.73 #Ft	2.5"x5.79 #1	2.5"x5.79 #1	
Over 8' to 12'				1-1/2" x 4.64 #/1

E. Yield Point - Minimum:

ASTM A-120	25,000 psi
ASTM A-53	35,000 psi
Roll Formed "C"	50,000 psi
SS40	50,000 psi

Posts shall be of sufficient length to allow for installation to a depth of approximately 3' below ground level.

F. Terminal Posts: End, corner and pull posts shall be as listed below:

Height	Pipe	Square Tube
6' or Less	2-1/2" @ 5.79 #/Ft.	1-1/2 @ 5.7 #/Ft.
Over 6' to 12'	3" @ 7.58 #/Ft.	3 @ 6.86 #/Ft.

G. Gate Post shall be listed below:

Gate Leaf Single Width	Steel Post Sizes	Weight Lbs/Ft.
6' or Less	3" O.D.	5.79
6' - 12'	4" O.D.	9.10
12' - 19'	6 5/8" O.D.	18.97
19' - 23'	8 5/8" O.D.	24.70
23' - 30'	10 3/4" O.D.	31.20

Each post shall be sufficient length to allow for a depth of approximately 3'0" below ground level.

H. Post Tops:

Tubular post tops shall be so designed as to exclude moisture from the post. "C" section line posts when top rail is not specified shall not require tops.

I. Toprail, Braces, Tension Wire, etc.

1. Toprail:

The fence shall have a continuous top rail for its full length of 1-5/8" O.D. galvanized tubing, vinyl coated, weighing 1.35 pounds per foot as per U.S. Government Spec. RR-F-191/3A. The top rail shall pass through openings provided in the line post tops and each length shall be coupled with an internal swaged sleeve for a distance of 3". Fabric shall be attached to the top rail by means of double wrapped 13 (.091") gauge vinyl coated tie wires spaced at intervals of approximately 24".

J. Tension Wire (for fences without top rail) - A7 (.177") gauge tension wire having a zinc coating of .80 oz. of zinc per square foot of surface area shall be provided along the top of the fence. Fabric shall be fastened to the tension wire at intervals of 24" with hog rings.

K. Truss Braces - for fences with fabric over 6' high, a brace rail of 1-5/8" O.D. galvanized tubing vinyl coated weighing 1.35 pounds per lineal foot, along with a 5/16" truss rod and tumbuckle attachment shall be installed between terminal post and each adjacent line post.

L. Tension Bars, Bands and Fittings - For fences using square terminal posts, fabric shall be attached to these square posts by means of a tension bar held in place by specially designed clips. When pipe gate posts are used, fabric shall be attached to these posts by means of 7/8" wide bands and tension bar. Fabric shall be attached to "C" section line posts by 9 gauge ties, intervals not to exceed 15". Tension bars, bands, and fittings shall be vinyl clad, color to match fabric.

M. Midrail - for fences with fabric over 6'-0" high, a 1-5/8" O.D. galvanized tubing weighing 1.35 lb./6.F is required.

N. Terminal Post and Linepost - Terminal Post and linepost shall be 2.875 O.D. galvanized pipe (vinyl clad) weighing 5.79 lb/ft.

1.6 OTHER MATERIALS:

A. All other materials, not specifically described but required for a complete and proper installation of chain link fencing, shall be as selected by the Contractor subject to the approval of the Engineer.

1.7 EXECUTION:

A. Inspection:

Prior to all work of this Section, carefully inspect installed work of all other trades and verify that all such work is complete to the point where this installation may properly commence.

B. Verify that chain link fencing and gates may be installed in strict accordance with the original design and the approved Shop Drawings.

C. In the event of discrepancy, immediately notify the Engineer.

D. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

1.8 INSTALLATION:

A. General:

The chain link fence, gates and accessories shall be installed in strict accordance with plans and specifications in a workmanlike manner.

B. Line Post Spacing:

Line posts shall be spaced not more than 10 feet on centers in the line of fence. They shall be plumb with tops properly aligned.

C. Line and Terminal Post Footings:

Drive Anchor Method (When Specified) - After being driven into the ground, the posts shall be held rigidly upright by means of two galvanized steel angle bars "Drive Anchors" which are driven diagonally through fittings attached to opposite sides of the post. Anchor blades shall be galvanized as per ASTM A525 Designation G90 and shall be the following sizes:

<u>Posts</u>	<u>Blade Side</u>
1-7/8" "C" Section	1-1/4" x 1-1/4" x 30"
2-1/4" "C" Section	1-1/2" x 1-1/2" x 30"
2-1/2" Square	1-1/2" x 1-1/2" x 30"

D. Concrete Footings:

Line and terminal posts shall be set in cylindrical concrete footings. A hole shall be excavated for the full depth of the post, not less than 10" in diameter for line posts and 12" in diameter for terminal posts. The concrete shall be minimum 28 day compressive strength 2500 psi. Depths shall be as shown on drawings.

E. Pull Posts:

Pull posts shall be installed at all points of deflection greater than 30-degrees in the line of fence and also at all points where there are abrupt changes in grade.

F. Fabric:

Rolls of chain link fabric shall be joined by weaving a single strand into the ends of the rolls to form a continuous mesh pattern. The fabric shall be stretch taut and securely fastened to the posts. Fabric shall be cut and attached independently at all terminal posts. The fabric shall be placed on the side of the fence as designated by the Owner or his representative. Knuckles shall be located as shown on drawings.

G. Clean Up:

The contractor shall promptly remove from the jobsite all excess excavated materials and other debris resulting from fence construction.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 02444