

## **EXHIBIT 2**

### **SCOPE OF SERVICES**

#### **PART 1 - GENERAL - The Woodlands Division**

The San Jacinto River Authority – is accepting proposals for Fencing Contractors to provide all labor, materials, and equipment required to for new fencing installations, demolitions, and repairs; and, clearing of fence lines for The Woodlands, Division services area, The Woodlands, Texas. The purpose of this solicitation is to set pricing for future fencing needs. Unit Pricing is to include labor, overhead and profit.

SJRA requests services for routine and occasional emergency basis. Routine Response Time requested is seven (7) days from initial call; Emergency Response Time is four (4) hours from initial call. Both Response times shall be a part of the evaluation criteria and award of this contract.

All fencing is to new and be of industrial/commercial quality per the following specifications.

Contractor shall visit the site and inspect the area with SJRA Representative. Contractor shall provide quote to SJRA Representative. If accepted by SJRA Representative a Purchase Order will be issued to Contractor.

When submitting a quote, Contractor shall state the number of calendar days for project completion from receipt of purchase order to completion of job; to include receiving all materials required for job.

**Selected Contractor shall itemize quotes for Routine Response Time projects *in the same manner* (unit rates) as the proposed pricing submitted in response to this RFP.**

**Selected Contractor shall itemize invoices for Emergency Response Time projects *in the same manner* (unit rates) as the proposed pricing submitted in response to this RFP.**

The SJRA Representative shall inspect each project with Contractor before a project is approved for payment. Contractor shall request an inspection a minimum of 48 hours in advance with the SJRA Representative. SJRA must approve each project prior to authorizing payment. The Contractor is responsible for requesting and scheduling inspection with SJRA Representative.

SJRA is requesting the pricing in units, linear feet or each. Unit pricing should include all necessary components, hardware, posts, fittings, accessories, etc. per the specification in this RFP.

**CHAIN LINK FENCE AND GATES  
6' HIGH with 3 Strands of Barbed Wire  
Or  
8' HIGH without Barbed Wire**

1.01 SUMMARY

- A. This section includes the furnishing and installing of new six (6) foot high vinyl-coated galvanized chain link fence, twenty (20) foot wide cantilever (rolling) gate for vehicle access, and a conventional three (3) foot wide, swing gate for pedestrian access and related labor, materials and accessories complete in place. Fence and both gates to include three (3) strands of barbed wire mounted above the six (6) foot high chain link fabric.

1.02 MEASUREMENT AND PAYMENT

- A. Measurement for payment for fence shall be in accordance with the bid proposal.

1.03 RELATED DOCUMENTS

- A. Refer to Drawings provided in this RFP.

1.04 REFERENCES

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.
  - 1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
    - a. ASTM A36/A36M – 1993 Standard Specification for Structural Steel.
    - b. ASTM A53 – 1993 Standard Specification for Pipe, Steel, Black and Hot Dipped, Zinc Coated, Welded and Seamless.
    - c. ASTM A121 - 1992 Standard Specification for Zinc Coated (Galvanized) Steel Barbed Wire.
    - d. ASTM A153 – 1982 Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
    - e. ASTM A392 – 1991 Standard Specification for Zinc Coated Steel Chain Link Fence Fabric.
    - f. ASTM A501 – 1993 Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.

1.05 SUBMITTALS

- A. Submit the following:
  - 1. Operation and maintenance data for the automatic gate operator and accessories (if Contractor provided).

San Jacinto River Authority  
RFP 18-0120 Fencing Services

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver fabric, posts, gates, and accessories to jobsite with sufficient protection, bracing, etc., to ensure arrival in undamaged condition.
- B. Store in original bundles on level supports and protect to prevent damage until erected.

PART 2 PRODUCTS

2.01 MANUFACTURER(S)

- A. Fence
  - 1. Anchor Post Products, Inc., Colorguard Corporation, or “equal” – subject to review and acceptance by SJRA. SJRA reserves the right to request specifications on any “equal” offered. Approval by SJRA for “equal” on one project does not automatically approve “equal” for any future project.
- B. Automatic Gate Opener
  - 1. RAM SET (Model No. 5500 - minimum)
    - a. Contractor provided, contractor installed or,
    - b. SJRA provided, contractor installed.

2.02 DESIGN CRITERIA

- A. Height
  - 1. Fence and gates shall be constructed of six (6) foot high by two (2) inch woven mesh and have three (3) barbed wires set horizontally on the top of the fence and gates, with arms facing out.
  - 2. Fence and gates shall be constructed of six (8) foot high by two (2) inch woven mesh without barbed wire.

2.03 MATERIALS AND/OR EQUIPMENT

- A. Fence and Gates
  - 1. Vinyl Coating: Coat fence components, except barbs, with thermally bonded plasticized polyvinyl chloride (PVC). Color vinyl coating black. Coat wire fabric with 7 mil. Vinyl. Coat other fence components with 10 mil. Vinyl.
  - 2. Fabric to conform to ASTM A392, 6 feet high, No. 9 W&M gage wire woven in 2” mesh. Unless otherwise shown on Plans, use Class 2 zinc coating. Top and bottom salvages to be twisted and barbed.

San Jacinto River Authority  
RFP 18-0120 Fencing Services

3. Barbed wire to be 3 lines of wire mounted on extension arms and conforming to ASTM A121, No. 12-1/2 W&M gage wire, with 4 point barbs, and Class 3 zinc coating. Space barbs 3 inches apart.
4. Barbed wire extension arm to be standard, one-piece, three-wire capacity, with steel conforming to ASTM A36/A36M.
5. Line Posts shall be 2" O.D. Schedule 40 galvanized steel pipe conforming to STM A120. Pipe to be installed at 10' spacing maximum. Set in minimum 36" in concrete footing 10" diameter thoroughly compacted with smooth finish slightly higher than the ground and sloped to drain away from the posts.
6. End, corner, and pull posts shall be Hot-Dip Galvanized piping 4" O.D. Set in minimum 42" in concrete footing 18" diameter thoroughly compacted with smooth finish slightly higher than the ground and sloped to drain away from the posts.
7. All posts shall be set plumb and to the required grade and alignment.
8. Top, mid and bottom rail to be minimum 1 5/8 inch O.D. galvanized steel pipe Schedule 40 galvanized steel pipe conforming to ASTM A120.
9. Cantilever and swing gate posts to be in accordance with ASTM A53, Schedule 40 for steel pipe, and ASTM A501 for steel tubing.
10. Cantilever and swing gates to be standard heavy type, welded, watertight, rigid frame, pipe dimensions to be as shown on Drawings, or minimum 1.90 inch O.D. Schedule 40 steel pipe with minimum weight 2.72 pounds per foot, conforming to ASTM A53.
11. Hot-Dip galvanized component metal parts not covered by ASTM specifications above with minimum standard zinc coating in accordance with ASTM A153 before application of vinyl coating.

B. Cantilever Gate (Refer to Drawing provided in this RFP)

1. Framework
  - a. All horizontal and vertical frame members shall be minimum 12-gauge two (2) inch round tubing, hot-dip galvanized inside and out after assembly. Gate frame to be prepped and painted with black gloss enamel paint prior to being fitted with vinyl coated chain link fencing material and barbed wire. If welding is required after assembly, all welds shall be air driven wire brush cleaned and covered with two (2) coats of galvanized-weld. Vertical members shall be spaced on maximum 60-inch centers. Size of frame to be determined by manufacturer to allow 20' cantilever from rollers.
  - b. Each gate section shall have diagonal braces made from minimum 3/8-inch galvanized rods. Each rod shall be threaded at both ends and attached to four (4) inch truss rod tighteners. Truss rod tighteners shall be fastened to frame by 7/16" by 3" galvanized eye bolts. All diagonal truss rods shall have two (2) nuts to prevent slippage.

San Jacinto River Authority  
RFP 18-0120 Fencing Services

2. Guide Rollers
  - a. Guide rollers are to be made from 1/4" by 3" adjustable pipe strap. Strap is to be held to post by four (4) 7/16" galvanized carriage head bolts. Guide rollers are to be machined from 2" by 3" UHMW Dupont High-Density Poly material. Each roller to have 17/32" roller bearing with urethane seals. Rollers shall be held to bracket by 1/2" by 6" stainless steel hex bolt with lock nut. Bracket to be hot-dip galvanized after fabrication.
  
3. Guide Yokes
  - a. The guide yokes shall be made from 3/4" x 3/4" galvanized steel bar stock and seal welded to the gate post that receives the gate. Guide yokes shall be hot-dip galvanized after fabrication. Provide two (2) guide yokes; one (1) yoke welded to gate post 1 1/2' from bottom of gate, and one (1) yoke welded to gate post 5' from the bottom of gate. All welds shall be air driven wire brush cleaned and covered with two (2) coats of galvanized-weld zinc rich paint. Both sides of yoke to extend a minimum of 8" over gate when in closed position.
  
4. Chain Bracket
  - a. Provide a chain bracket made from 1/2" x 2" x 16" bar stock and fabricated to allow attachment to gate frame with two (2) 3/8" x 2" galvanized u-bolts. Chain bracket is to have three (3) 1/2" adjustment slots for the chain.
  
5. Gate Posts
  - a. Gate post shall be 6"x 6" x 10', 6"schedule 40, steel galvanized pipe hot-dip galvanized inside and out, or such other strength as manufacturer can demonstrate to ENGINEER/OWNER that bending will not occur under wind loads, attempted forced entry or normal use. Gate posts to be fabricated with a minimum of six (6), 1/2" thick x 2" wide x 4" long galvanized steel tabs, seal welded at right angles to the post at intervals on the bottom 36"of the post. Clean welds with air driven brush and coat with two layers of zinc rich paint. Set the gate posts in minimum 42" deep holes filled with high strength concrete. Gate posts to be prepped and painted with black gloss enamel paint after all welding/cleaning/galvanizing.
  
6. Automatic Gate Opener
  - a. **Automatic Gate Opener must incorporate a receiver that is compatible with handheld MULTI-CODE remote transmitters by Linear, Part No. 412001 0423 3000, and FCC ID EF4 NE02X4.** Operator shall be equipped with 120 volt, 1 phase, minimum 1 hp motor (contractor responsible for confirming motor hp is adequate for length/width/weight of gate), with heavy duty ball bearings, and shall be inside a pad-lockable enclosure. Accessories to include four (2) two

San Jacinto River Authority  
RFP 18-0120 Fencing Services

channel transmitters for remote control of gate (MULTI-CODE by Linear, Part No. 412001 0423 3000, FCC ID EF4 NE02X4).

- b. Automatic gate opening system shall have a manual override to allow manual opening of the gate from the inside or outside of the facility in the event of a power failure.
- c. Operator to be equipped with audible alarm warning.
- d. Signage (Placard): Warning signs to be installed on each side of gate (3' to 5' above bottom) and two (2) on each side of opener, and (1) on rear of opener– Elite Product No. A WS-SL.

7. PEDESTRIAN GATE

- a. Provide a conventional 3' wide swing gate for pedestrian access – lockable with heavy duty hinges and padlock mechanism. Construct to match style, fabric and height of cantilever gate including fence slats. Provide 4" black vinyl posts at pedestrian gate. Set the gate posts in minimum 36" deep holes filled with high strength concrete.

PART 3 EXECUTION

3.01 ERECTION

- 1. Install chain link fence and gates to the specifications provided in this RFP.
- 2. Fencing shall follow the ground contour except where goes along asphalted area, install the fence on the asphalt with a 3' – 4" clearance from the fabric to the edge of the asphalt. The SJRA Representative may waive this requirement.
- 3. Contractor to be responsible for fence and gate design. Size in accordance with dimensions specified in this RFP and shown on Drawing provided with this RFP. Furnish hinges, latches, stops, keepers, and other accessories. Gates to open as indicated by SJRA Representative. Furnish latches with provisions for padlocking.
- 4. Demonstrate to SJRA Representative after construction that the equipment operates as designed with a minimum of effort to open and close the gate.

3.02 WARRANTY

- A. Provide a two (2) year warranty for the gate and opening mechanism. Warranty shall be in the name of SJRA.

END OF SECTION

**WOODEN FENCE and GATE SPECIFICATIONS  
(Six (6) Foot High)**

**General Specification:**

Wooden fences shall be constructed of 2" galvanized post, 4" corner post, 3" C-channel for Top, Middle and bottom rails.

Fence material shall be comprised of #2 grade cedar pickets.

Rot boards shall be made of 2"x12" pressure treated lumber and Top Cap 2"x 8" cedar.

Wood pickets to be non-treated 7'0" #2 grade cedar.

Wood Cap boards to be non-treated 2" x 8" #2 grade cedar.

Wood rot board to be 2" x 12" pressure treated.

Use galvanized self-tapping screws for fastening.

Line post shall be 2" outer-diameter schedule 40 galvanized

Corner post shall be 4" outer-diameter schedule 40 galvanized.

Center attachments shall be 3" galvanized C channel, 3 each a top, center and bottom channel with 2 each galvanized screws to be used per picket per channel.

Use C-channel to attach rot board, a minimum of 2 each galvanized screws to be used at each connection per piece of board.

7'0" max spacing between posts.

¼" max spacing between pickets.

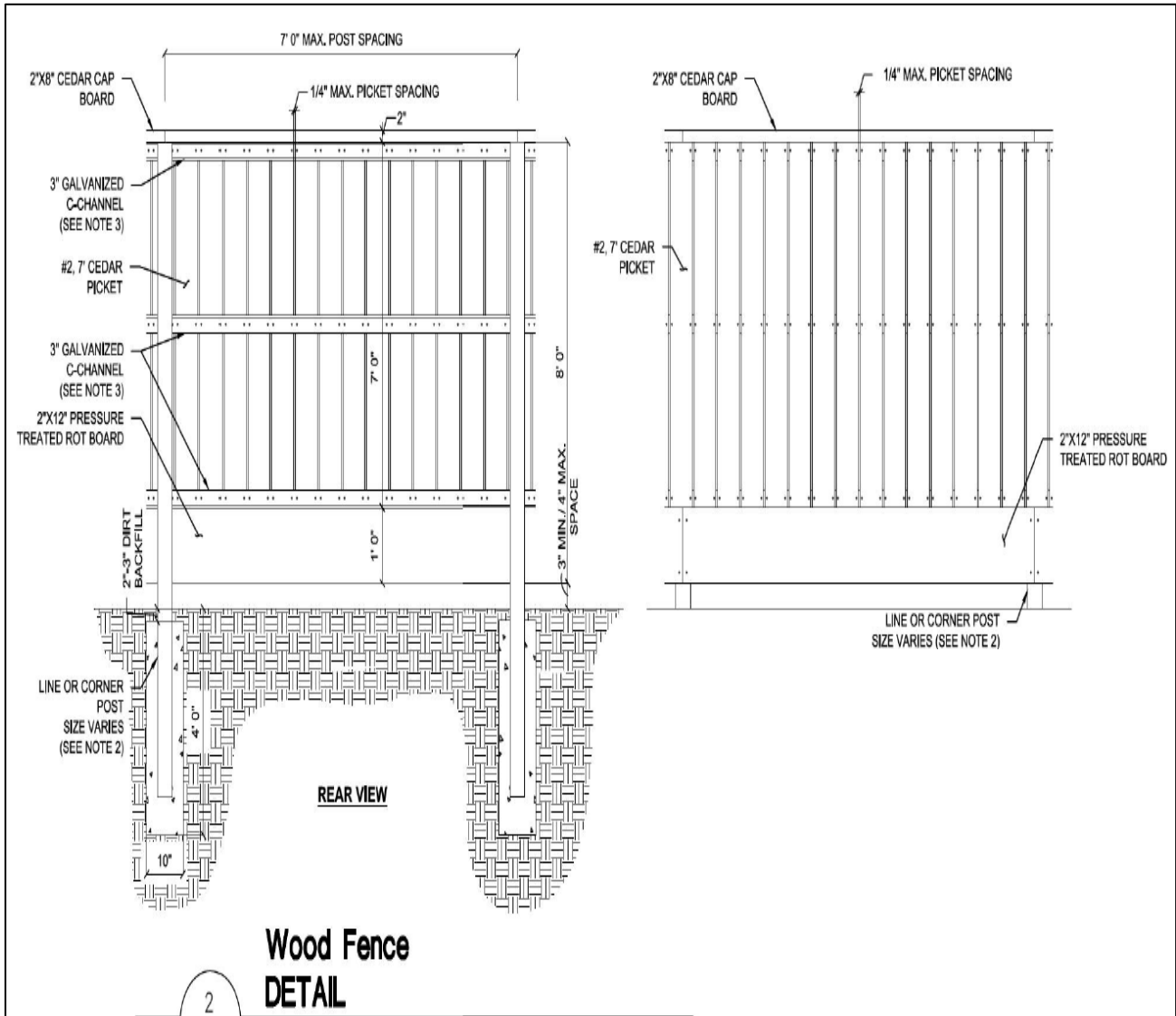
3" minimum and 4" maximum space between ground and rot board.

Weld all connections from post to C-channels.

Rear view shall face into the site and front view shall face outward from the site.

Note: if Barbed wire is called for, 6'0" pickets shall be used in place of 7'0" pickets with no top cap cedar board.

San Jacinto River Authority  
RFP 18-0120 Fencing Services





San Jacinto River Authority  
RFP 18-0120 Fencing Services

**Walk thru / Swing Gates:**

All horizontal, vertical and diagonal frame members shall be minimum 12-gauge two (2) inch round tubing, hot-dip galvanized inside and out after assembly.

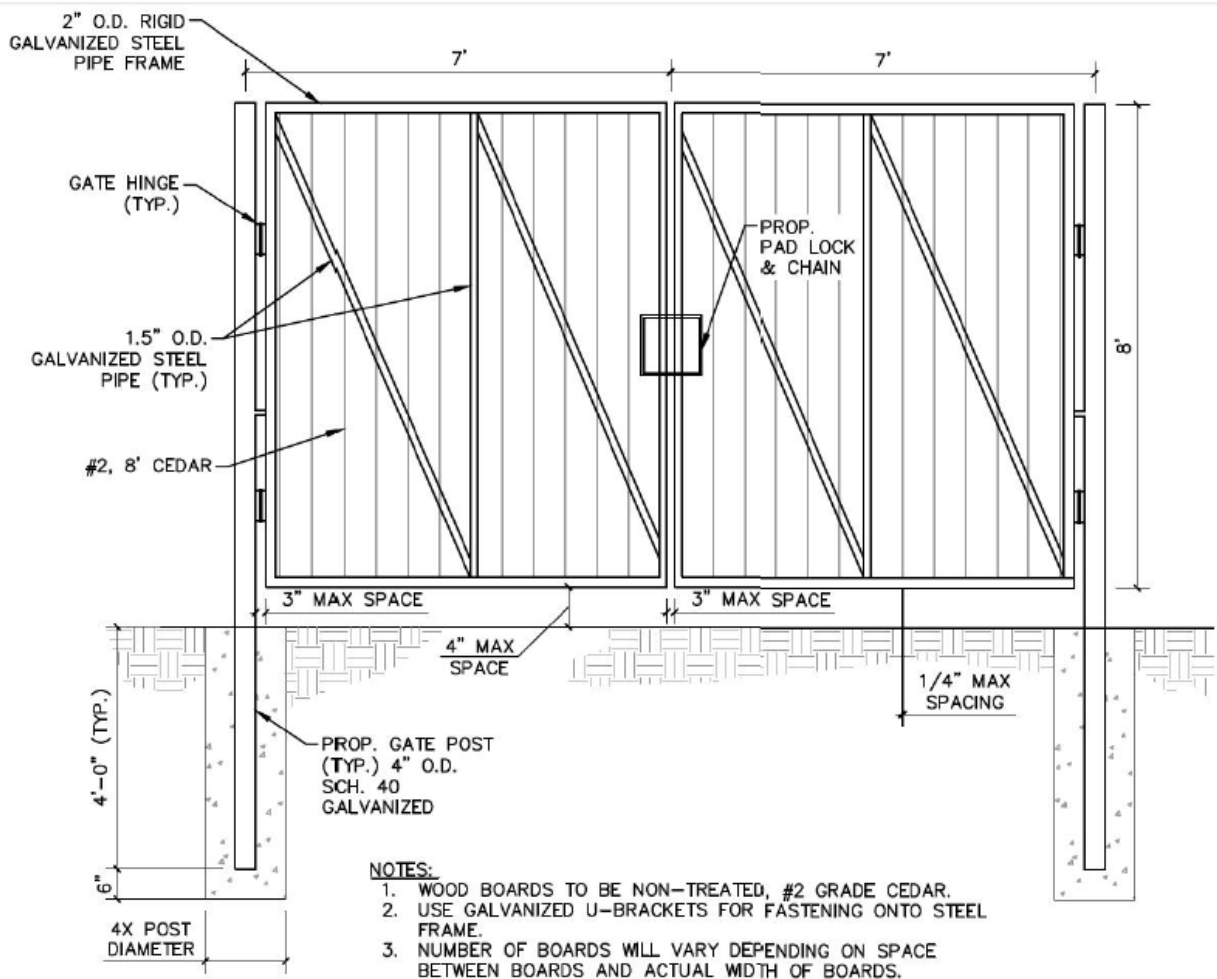
Gate frame to be prepped and painted with black gloss enamel paint if welding is required after assembly, all welds shall be air driven wire brush cleaned and covered with two (2) coats of galvanized-weld.

Wood boards to be non-treated #2 grade cedar. Number of boards will vary depending on space between boards and actual width of boards.

Use galvanized U-Brackets for fastening onto steel frame.

Vertical members spaced on maximum 48-inch centers.

Each gate section shall have diagonal braces.



**Galvanized Frame-Wood Covered Swing Gate**