

Statement of Work:
2023 Kemmerer Field Office – Dry Fork/Smith’s Fork Lower Crossing
Wildlife Friendly Enclosure Fence

Introduction

The work includes installation of a wildlife friendly four-wire fence: 3 barbed 1 smooth bottom wire. The fence is one continuous line, approximately 1,210 lineal feet. It is recommended that each bidder make the onsite tour to assess the accessibility.

Specifics for the fence are stated below. The work will be performed on and around the Dry Fork/Smith’s Fork Road lower crossing.

It is the contractor’s responsibility to ensure that livestock does not cross through the opening while the new fence is constructed.

Specifics for Fence:

There is approximately 1,210 lineal feet of a new fence will be constructed according to the drawings and is estimated to have 4 wire gates and 13 3-post corners.

Location

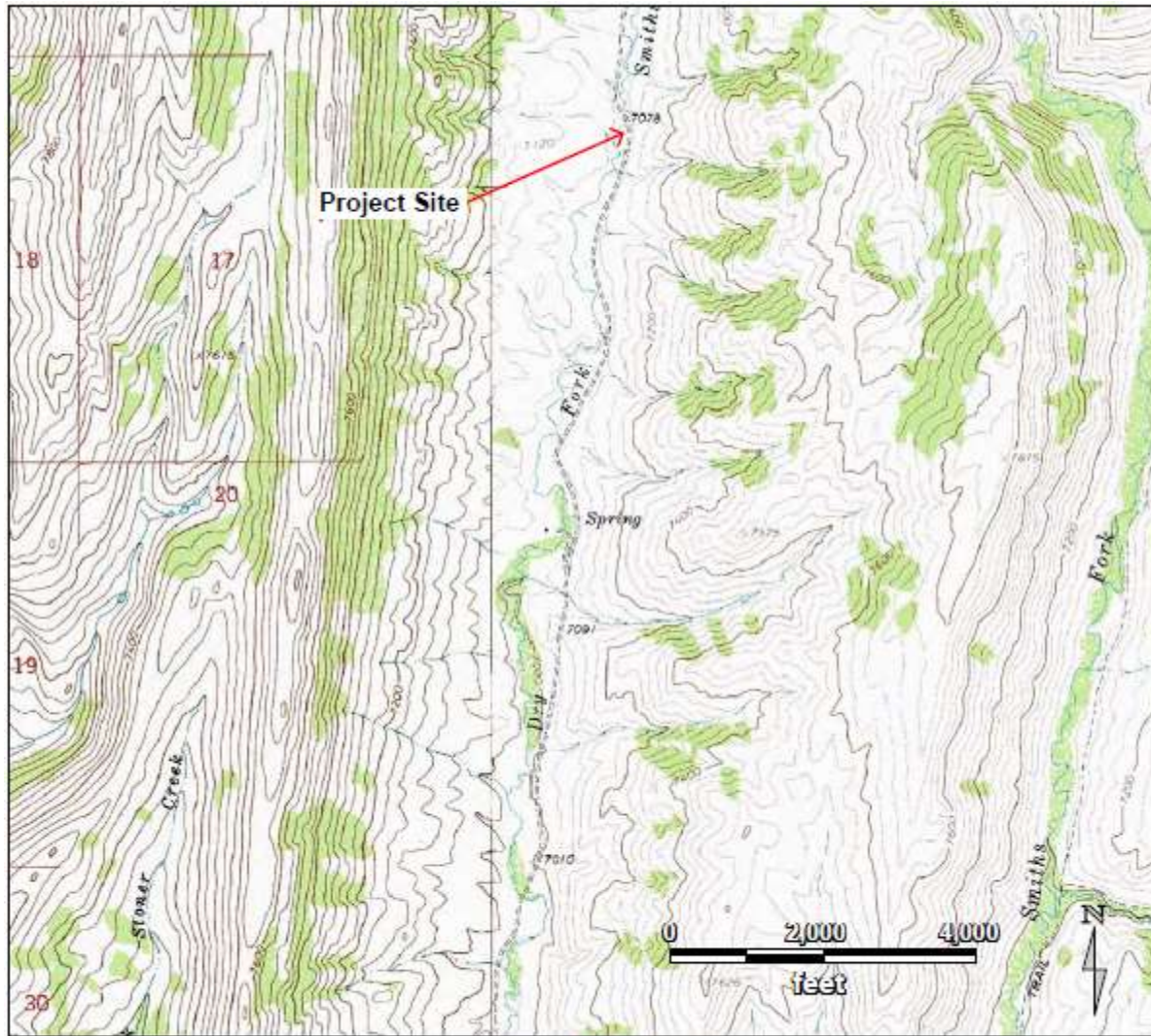
See attached map.

Deliverables

Bids will be accepted based on a bid schedule of items for the fence. All work shall follow specifications and drawings.

Project Contacts

TBD



Project Vicinity Map
 Quadrangle: Porcupine Creek; T26N R118W Sec 4 and 16
 Scale: 1 in = 2,000 ft

**SECTION 01009
GENERAL INFORMATION AND REQUIREMENTS**

PART 1: GENERAL

1.1 SUMMARY:

- A. Description of Work: Furnishing labor, equipment, and materials to construct approximately 1,210 LF of 4 wire fence. The bottom wire of the new fence will be barbless, the other 3 wires will be barbed.
- B. Location: Work under this Contract is located in Lincoln County, Wyoming. Work locations are shown on the maps.
- C. Work Data Sheet: Designates the type and quantity of work required at the project location, and dimensions required for typical drawings.
- D. Debris: Debris consisting of wood posts, poles, steel posts, and wire shall become the property of the Contractor and shall be removed from the work site. The Contractor shall be responsible for disposal of construction debris in a legal manner, and for payment of any fees required. Burning of debris is not permitted on the work site.

1.2 REFERENCES

- A. Referenced Specifications/Standards with Abbreviations and/or Acronyms: Wherever the following acronyms are used in these specifications or on the drawings, they are to be construed the same as the respective expressions represented. Copies of the referenced specifications/ standards referred to herein may be procured by the Contractor, from the following:

ALSC American Lumber Standards Committee
 PO Box 210
 Germantown, MD 20875

ANSI American National Standards Institute
 11 W 42nd St.
 New York, NY 10036

AWPA American Wood Preservers' Association

P.O. Box 286
Woodstock MD 21163

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|-------------|---|
| AWPA C 1-95 | All Timber Products, Pressure Treatment |
| AWPA C 5-95 | Fence Posts, Pressure Treatment |
| AWPA M 4-95 | Care of Pressure Treated Wood Products |
| AWPA P 5-95 | Waterborne Preservatives |
| AWPA P 8-95 | Oil-Borne Preservatives |
| AWPA P 9-92 | Solvents for Organic Preservative Systems |

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| CFR | Code of Federal Regulations (Available from the Government Printing Office) N. Capitol St. between G and H St., NW Washington, DC 20402 |
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| FS | Federal Standard General Services Administration Specifications Branch Room 6039, GSA Building 7th and D Streets, S.W. Washington, DC 20407 |
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| GSA | General Services Administration F St. and 18th St., NW Washington, DC 20405 |
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| OSHA | Occupational Safety and Health Administration US Department of Labor 200 Constitution Ave., NW Washington DC 20210 |
|------|---|

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|--------------|-----------------------|
| OSHA 2207-91 | Construction Industry |
|--------------|-----------------------|

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|------|--|
| WWPA | Western Wood Products Association 522 SW 5th Avenue, Yeon Bldg Portland, OR 97204-2122 |
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1.3 SUBMITTALS

(There are no applicable requirements)

1.4 DELIVERY, STORAGE, AND HANDLING:

- A. Delivery: The Contractor shall protect products incorporated into the work from damage while in transit to the site.
- B. Storage: The Contractor shall provide temporary storage facilities for products. Storage shall comply with the manufacturer's instructions. The storage area shall permit access for inspection and handling.
- C. Handling: The Contractor shall load and unload products in such a manner that protects them from damage.

1.5 QUALITY ASSURANCE:

- A. Codes and Standards: The work shall comply with codes and standards applicable to each type of work and as listed in the individual sections of these specifications. This Contract incorporates materials, applications, and tests by reference with the same force and effect as when they were given in full text.
- B. Conflict: Where a conflict occurs between reference documents and project specifications, the project specifications shall govern.

1.6 PROJECT/SITE CONDITIONS:

- A. Access to the Work:
 - 1. The work locations are shown on the drawings.
 - 2. Access to the work shall be provided by and at the Contractors expense. No roads shall be constructed by the Contractor or off-road driving permitted without prior written permission from the Contracting Officer.
 - 3. Contractor shall exercise care to prevent unnecessary surface disturbance to existing grass, vegetation, and to existing roads and two-tracks.
 - 4. Public, State, or private access roads damaged by the Contractor shall be restored, at the Contractor's expense, to the same condition they were in at the commencement of work.

B. Environmental Considerations:

1. No blading will be allowed.

1.7 SEQUENCING AND SCHEDULING:

- A. Work Schedule: The schedule shall be submitted at the pre-work conference. When requested, the Contractor shall submit an updated schedule within three calendar days. As a minimum, the estimated start and completion dates shall be shown in the schedule.

PART 2: PRODUCTS

- A. See material specifications section of these specifications.

PART 3: EXECUTION

3.1 PROJECT MEETINGS:

A. Pre-Work Conference:

1. A pre-work conference will be held prior to the start of work. The Contractor will be notified in advance of meeting time, date and place. The purpose will be to review required work, project drawings and specifications, construction schedules, payroll and payments, and administrative provisions of the Contract.
2. The Contractor, subcontractors and the persons responsible for coordination of the work shall be present at the meeting.
3. The Contractor shall be prepared to summarize and explain procedures planned for the project.

B. Progress Meetings:

1. Meetings shall be held at the project site, or as determined by the Contracting Officer.
2. Meetings may be called by either the Contracting Officer or the Contractor. Request shall state who should attend and include an agenda.

C. Final Inspection:

1. Meeting shall be held at the project site, or as determined by the Contracting Officer.
2. The Contractor shall notify the Contracting Officer in writing at least 3 working days before the completion date so the Government can schedule final inspection.
3. The Contractor shall require the superintendent to be present during this inspection.

3.2 PREPARATION

- A. Work Limits and Control Points: Will be established by the Contracting Officer.

PART 4: MEASUREMENT AND PAYMENT

4.1 METHOD OF MEASUREMENT:

- A. Units: Work described in this section will not be measured for payment.

4.2 BASIS OF PAYMENT:

- A. Payment: No direct payment for the work described under this section will be made. The Contractor shall include consideration for this item in the bid price for other items of the Contract.

END OF SECTION 01009

SECTION 01505 MOBILIZATION

PART 1: GENERAL

1.1 SUMMARY

- A. Section Includes: Preparatory work and operations, including those necessary to the movement of personnel, equipment, supplies and incidentals to the project site; and for other work and operations which must be performed, or costs incurred prior to beginning work on the various items on the project site.

PART 2: PRODUCTS

(There are no applicable requirements.)

PART 3: EXECUTION

(There are no applicable requirements.)

PART 4: MEASUREMENT AND PAYMENT

4.1 METHOD OF MEASUREMENT:

- A. Units: Progress payments will be made as follows:
1. When 5% of the original Contract amount is earned from other bid items, 50% of the amount bid for mobilization or 5% of the original Contract amount, whichever is lesser, will be paid.
 2. When 10% of the original Contract amount is earned from other bid items, 100% of the amount bid for mobilization or 10% of the original Contract amount, whichever is lesser, will be paid.

4.2 BASIS OF PAYMENT:

Payment: Prices and payment will be full compensation for the work described in this section. Payment will be made under:

Pay Item

Pay Unit

Mobilization

Lump Sum

END OF SECTION 01505

SECTION 02824 WIRE FENCES AND GATES

PART 1: GENERAL

1.1 SUMMARY

- A. Section Includes: Installing barbed wire, steel posts, 3-post corner braces, and wire gates.
- B. Related Sections:

General Information and Requirements Section 01009

1.2 SUBMITTALS

- A. General: Submittals shall be according to Section 01009 - General Information and Requirements.

1.3 QUALITY ASSURANCE

- A. General: Contractor – All work will be inspected by the Contracting Officer's Representative before acceptance.

PART 2: PRODUCTS

2.1 CONTRACTOR - FURNISHED MATERIALS

All building supplies and materials will be furnished by the contractor.

PART 3: EXECUTION

3.1 PREPARATION

- A. Clearing: No blading will be allowed. Cutting and clearing shall be by

hand cutting (chain saws included). Dispose of cut brush by scattering it evenly adjacent to the fence line.

3.2 INSTALLATION

A. General:

1. Steel posts shall not be used for end-panel, corner-panel, gate-panel, or stress-panel posts.
2. When treated posts must be bored or cut during construction, thoroughly swab untreated surfaces with copper naphthenate.

B. Driving Posts:

1. Wood Posts: Driving wood posts shall not be allowed for Stress Panels, Three Post Corners and End Panels. Driving line posts will be allowed if they drive without damaging the post.
2. Steel Posts: Drive into the ground to the depth shown on the drawings or until the anchor plate is slightly below the ground surface. Posts shall be driven plumb. When rock formations prevent driving, remove anchor plate, and excavate or drill holes a minimum of 18-inches deep and slightly larger than the diameter of the post. Place posts in the holes and grout the post solidly in position.

C. Setting Posts:

Dig holes for setting wood posts to the depth as shown on the Work Data Sheet FOR Corners, End and Stress Panels. Set posts plumb and to the spacing and grades as shown on the drawings, unless staked otherwise. Space posts within 6-inches of the dimension shown on the drawings or specified on the Work Data Sheet. Holes shall provide adequate open space around the post so backfill can be tamped the full depth around the post. Backfill with soil gradually and uniformly around each post. Holes shall be backfilled firmly, from the bottom of the hole to the top of ground surface.

D. Corner Post, Gate Post, Corner Panel, Brace, End Panel, and Stress Panel Assemblies:

Construct as shown on the drawings or as staked in the field. Construct stress panels on crests of hills, and a maximum of 1320 feet center-to-center for barbed wire sections. In addition, stress panels are required at points between which wire is to be stretched. Construct end panels at the end of fence runs unless shown otherwise on the drawings.

E. Wire:

Stretch tightly and staple to wood posts or securely attach to steel posts with standard wire clips. Wire is properly stretched when it is springy to the touch. Drive staples crosswise with the grain of the wood. The wire shall be free to move through the staples as it expands and contracts. Terminate wire at each end post, gate post, corner post, or stress panel. Wrap wire around the post two times and tie off by wrapping around the incoming wire a minimum of four times.

F. Brace Wire:

Twist tight with a lever. Leave one end of the lever long enough to fasten behind the horizontal brace to prevent wire from unwinding.

1. The lever shall be a straight ridged rod, consisting of dimension wood ripped and cut to length or a minimum #4 rebar cut to length.

G. Spiking: For spikes predrilled lead holes shall be used. The hole diameter shall be $\frac{3}{4}$ the diameter of the spike and drilled to a depth no greater than $\frac{1}{2}$ the length of the spike.

H. Minor Drainage Crossings:

Additional steel posts shall be set at the top and bottom of breaks or the centerline of the drainage depending on the size and shape of the drainages. Additional wire shall start and end from the main fence. Shall be in locations staked in the field or as directed by the Contracting Officer.

- I. Wooden Fence Stays: Fence stays shall be used in this Contract. See work data sheet for size of wood stays
- J. Wire Gates: Construct wire gates with 2 wooden fence stays spaced evenly across opening. Each gate will have a fence closer. Gate closures will not be measured separately, but costs for gate closers should be considered as part as the Wire Gate bid item cost on the bid schedule.

PART 4: MEASUREMENT AND PAYMENT

4.1 METHOD OF MEASUREMENT

- A. Units: The work described in this section will be measured and paid for by the job, each section, for fence constructed.
- B. No direct payment will be made for drainage crossings, deadmen, figure fours, or rock jacks. The Contractor shall include consideration for these items in the bid price for other items of the contract.

4.2 BASIS OF PAYMENT

- A. Payment: Prices and payment will be full compensation for the work described in this section. Payment will be made under:

| <u>Pay Item</u> | <u>Pay Unit</u> |
|---------------------|-----------------|
| Construct New Fence | LF |
| 3 - Post Corners | EA |
| Drainage Crossings | EA |
| Wire Gates | EA |

END OF SECTION 02824

SECTION 02826

FENCE-DRAINAGE CROSSINGS

PART 1: GENERAL

1.1 SUMMARY

- A. Section Includes: Furnishing and installing drainage crossings at the locations shown on the drawings, or as staked in the field.

1.1 PROJECT/SITE CONDITIONS

- A. Requirements: Access roads shall not be constructed along fence lines and to the construction site unless written approval is granted by the Contracting Officer. Cross country travel with wheeled or tracked vehicles shall be only to and along fence lines.

PART 2: PRODUCTS

2.1 MATERIALS

- A. Wire Fence Materials: Shall be according to Section 02824 - Wire Fences and Gates and as shown on the drawings.

PART 3: EXECUTION

3.1 PREPARATION

- A. Clearing: Clearing shall be limited to hand clearing. Only vegetation that interferes with the fence shall be removed. All debris shall be disposed of in the immediate vicinity.

3.2 INSTALLATION

- A. Type A: Construct Type A drainage crossings as shown on the drawings, with an auxiliary fence of wire, rock weights, and posts constructed under

and independent of the main fence, so that when the crossing washes out, the main fence will not be damaged.

PART 4: MEASUREMENT AND PAYMENT

4.1 METHOD OF MEASUREMENT

- A. Units: The work described in this section will be measured and paid for as complete units.

4.2 BASIS OF PAYMENT

- A. Payment: Prices and payment will be full compensation for the work described in this section. Payment will be made under:

| <u>Pay Item</u> | <u>Pay Unit</u> |
|-----------------------------------|-----------------|
| 02826(1) Drainage Crossing-Type A | EA |

END OF SECTION

Material Specifications:

Specifications

- A. Barbed Wire: A strand of two 12-1/2-gauge galvanized wires twisted together with 2-point barbs of 14-gauge wire spaced 4-inches apart. Wire and barbs shall be zinc-coated steel, with a zinc coating of at least 0.3 oz/ft² of coated surface area. The minimum breaking strength of each wire shall be 950 lbs-force. The barbed wire shall conform to ASTM A 121.
- B. Barbless Wire: A strand of two 12-1/2-gauge galvanized wires twisted together. Wire shall be zinc-coated steel wire of at least 0.3 oz/ft² of coated surface area. The minimum breaking strength of each wire shall be 950 lbs-force. The barbless wire shall conform to ASTM A 121.
- C. Wood Stays: Straight, sound single-stem members. Shall be 42" long, 2" (milled) in diameter made from Ponderosa pine, or Lodgepole Pine. Peeled and CCA treated.
- D. Steel Fence Posts: ASTM A 702; painted green with white or silver tops "T" bar type, with a welded or riveted anchor plate. Furnish with clip-type wire fasteners (punched tabs for fastening wires are not acceptable). Steel posts shall be manufactured from wrought, rail, or new billet steel, and shall have a minimum weight of 1.33 lb/ft. The anchor plates shall weigh a minimum of 0.67 pounds ± 5 percent, be a minimum of 18 square inches in area, and be 18-inches from the bottom of the post. The posts shall be 5.5' in length.
- E. Wood Posts and Braces:
 - 1. Acceptable Wood Posts: Sound single-stem members. A slight bend in one plane is acceptable. Posts may be full stem members, sawed members of square cross section, or split members (western red cedar only). Nominal diameter for treated posts shall be 6-inches.

The following species will be acceptable: Ponderosa pine, Lodgepole pine, fir, and tamarack. All treated posts shall be free of bark with ends cut square.

2. Basis for Rejection: Posts are not acceptable when sweep causes a straight line joining the center of the top to the center of the butt to fall outside the body of the post, or at point 2-inches or more from the center of the post. Posts that are charred, twisted, rotted, or excessively bent are not acceptable. Seasoning checks, single or opposite each other with a sum total equal to or more than 1/2 the thickness of the post is not acceptable.
3. Wood Treatment Practices: General: The following treatments may be used. Treatment method shall be in accordance with AWPAC 1.
 1. Chromate Copper Arsenic Method: chromate copper arsenate, waterborne preservative (conforming to Type B in AWPAC 5) shall be applied. Minimum net retention of solid preservative shall be 0.4 pounds per cubic foot (gauge only) using the full-cell pressure treatment process.
 2. Assay Report: The Supplier shall furnish an assay report, for all treated wood products, from an independent testing laboratory to the Contracting Officer. A minimum of five-inch boring shall be taken from each bundle of 50 posts as samples for the assay report.

A written submittal for all materials shall be submitted for approval to COR/POC Rock Springs Wyoming BLM Field Office prior to shipping the products.

Contact COR/POC with any questions.

WORK DATA SHEET
Dry Fork/Smith's Fork Lower Crossing

Fence type: 4-Wire Fence

Type of top wire: Barbed

Type of intermediate wires: Barbed

Type of bottom wire: Smooth/Barbless

Wire locations/dimensions in inches (spacing):

E. Top of Post 48 inches from ground level

D. Top Wire- barbed 40 inches from ground level

C: Barbed 3rd Wire 28 inches from ground level

B: Barbed 2nd Wire 22 inches from ground level

A: Smooth 16 inches from ground level

Ratio of wood to steel line posts: All Steel Line Posts

Line post spacing (L): 16.5 ft 0 inches

Type of Stays: 3" diameter wood stays, one per section

Stay spacing (I): 8 ft. 2.5 inches

Length of wood posts: 6 ft 6 inches

Depth of wood posts in ground: 2 ft 6 inches

Length of steel posts: 5 ft 6 inches

Depth of steel posts in ground: 1 ft 6 inches

Number of mechanical gate closers: 4 each

BID SCHEDULE
Dry Fork/Smith's Fork Lower Crossing

| Item | Description | Unit | Quantity | Unit Cost | Total Cost |
|------|-----------------------------|------|----------|-----------|------------|
| 1 | Mobilization/Demobilization | LS | 1.00 | \$_____ | \$_____ |
| 2 | Construct New Fence | LF | 1210.00 | \$_____ | \$_____ |
| 3 | 3 Post Corners | EA | 13.00 | \$_____ | \$_____ |
| 4 | Drainage/Creek Crossings | EA | 2.00 | \$_____ | \$_____ |
| 5 | Wire Gates | EA | 4.00 | \$_____ | \$_____ |