Amend **Section 607 - Fences** to read as follows:

"SECTION 607 - FENCES

607.01 Description. This work includes constructing fences and gates according to the contract.

607.02 Materials. Materials shall conform the following:

Barbed Wire	710.01
Woven Wire	710.02
Chain Link Fencing	710.03
Fence Posts	710.06

Concrete for fence footings shall be Class D and shall conform to Section 601 - Structural Concrete.

When the location of manufacturing plants allows, the Engineer may inspect the plants periodically for compliance with specified manufacturing methods. The Engineer may get samples of materials for laboratory testing for compliance with material quality requirements. This may be the basis for acceptance of manufacturing lots regarding quality.

The condition of materials will be subject to inspection for acceptance before or during incorporation of materials into the work.

607.03 Construction Requirements.

(A) General. Clear, grade and grub as may be necessary to construct the fence to the required grade and alignment.

Make appropriate adjustment in post spacing to conform to the type of closure shown at locations requiring breaks in a run of fencing or at intersections with existing fences.

Install temporary guys or braces until the concrete has set sufficiently to hold the posts when the contract requires embedding posts, braces, or anchors in concrete. Do not install materials on posts or strain placed on guys and bracing set in concrete until 7 days have elapsed from the time of placing of the concrete.

Crown concrete fence footings at the top to shed water.

Set the tops of posts to the required grade and alignment. The Engineer will allow cutting of the tops of the posts only under the written request and the conditions specified.

Firmly attach wire or fencing of the size and type required to the posts and braces according to the contract. Stretch the wires taut and install the wires to the required elevations.

Furnish and install a ground conforming to Section 9 of the National Electric Safety Code at each location where an electric transmission, distribution, or secondary line crosses the fences covered by the contract.

(B) Chain Link Fence. Fabricate posts from pipes conforming to Table 607-I. Space line posts at not more than 10-foot intervals, measured from center to center of posts. In general, make measurement parallel to the slope of the natural ground in determining the post spacing. Place posts in a vertical position.

The depths of footing are as follows:

Type of Post	Fabric Height inch	Footing Depth (Minimum) Foot
Line Post	36	2
End, Corner, and Gate Post	36	2-1/2
Line Post	48	2-1/2
Other Post	–	3

In cross section, the minimum dimension of footings shall not be less than three times the maximum cross-sectional dimension of the post. Also the minimum dimension of footings shall not be less than 8 inches.

Brace end, corner, and gate posts for fencing of a height of 6 feet or more to the nearest line post with horizontal braces used as compression members and truss rods with turnbuckles used as tension members. Brace and truss pull post shall be at intervals of 300 feet in both directions as specified above.

Install corner posts when the fence line changes 30° or more.

TABLE 607.1 - SCHEDULE OF CHAIN LINK FENCE POSTS								
ZINC-COATED PIPE - NOMINAL								
Ht. of Fence (Feet)	Line Posts		End, Corner & Pull Posts		Braces		Top Rails	
	OD Inch	Wt #/ft	OD Inch	Wt #/ft	OD Inch	Wt #/ft	OD Inch	Wt #/ft
3	1-7/8	2.72	1-7/8	2.72	1-5/8	2.57	1-3/8	1.68
4	1-7/8	2.72	1-7/8	3.65	1-5/8	2.57	1-3/8	1.68
5	1-7/8	2.72	2-3/8	3.65	1-5/8	2.57	1-5/8	2.27
6	2-3/8	3.65	3	5.79	1-5/8	2.57	1-5/8	2.27
ALUMINUM PIPE - NOMINAL								
Ht. of Fence (Feet)	Line Posts		End, Corner & Pull Posts		Braces		Top Rails	
	OD Inch	Wt #/ft	OD Inch	Wt #/ft	OD Inch	Wt #/ft	OD Inch	Wt #/ft
3	2	1.264	3	2.621	1-1/4	0.786	1-1/4	0.786

The top rail or top tension wire shall pass through the base of line post tops or extension arms and form a continuous brace from end to end of each stretch of fence.

Furnish top rails in approximately 20-foot lengths. Provide with accepted outside couplings or expansion sleeves. Fasten the top rail or top tension wire securely to terminal posts by rail ends and brace bands.

Furnish brace rails in the required lengths.

Fasten chain link fabric on the designated side of the posts. Also, mount chain link fabric on the posts so that the bottom of the fabric is two inches above ground.

Chain link fences shall have knuckled finish on the bottom edge. Chain link fences with fabric width over 60 inches shall have a twisted and barbed finish on the top edge projecting over the top rail or top tension wire of the fence. Chain link fences with fabric widths 60 inches or less shall have knuckled finish on the top edge.

Weave chain link fence fabric into approximately two inch mesh except around tennis courts. Weave chain link fence fabric into approximately 1.75 inches mesh around tennis courts.

Fasten between posts, the top edge of the fabric to a top rail or top tension wire and the lower edge fastened to a tension wire. Install the tension wire on a straight grade between posts by excavating the high points of ground. The Engineer will not permit filling of depressions.

Fasten the fabric to end, corner, and gate posts with stretcher bars and stretcher bar bands spaced at one-foot intervals; and to line posts and tension wires with tie wires or metal bands. Space tie wires or metal bands on line posts at intervals of approximately 14 inches, and on top rails and tension wires at approximately 24 inches.

Drive gates shall be of the widths designated in the contract. Walk gates shall be four-foot wide.

Fabricate gate frames and posts from pipes conforming to of Table 607-II, or if accepted, from shapes of equivalent structural strength. Drive gate shall be cross-trussed with accepted adjustable truss rods. Assemble by the use of properly designed fittings or by accepted welding techniques.

Fabric for the gate shall be the same as that used for the fence. Attach the fabric for the gate to the gate frame by stretcher bars and tie wires as specified for fence construction, and suitable tension connectors spaced at approximately one-foot intervals.

Hang the gates by at least two hinges designed to clamp securely to the gate post and permit the gate to swing back against the fence.

Provide gates with a combination catch and locking attachment of acceptable design. Provide stops to hold gates open and a center rest with catch where required.

GATE FRAMES		GATE OPENING	GATE POSTS	
O.D. Inch	Nominal Weight lbs/ft		O.D. Inch	Nominal Weight lbs/ft
1.875	2.72	Single to 6' or Double to 12'	3	5.79

1.875	2.72	Single over 6' to 13' or Double over 12' to 26' inclusive	4	9.11
1.875	2.72	Single over 13' to 18' or Double over 26' to 36' inclusive	6.625	18.97
1.875	2.72	Single over 18' or Double over 36'	8.625	24.70

ALUMINUM PIPE						
GATE FRAMES			**GATE OPENING**	**GATE POSTS**		
Nominal Size Inch	**Nominal O.D. Inch**	**Wt. lbs/ft**		**Nominal Size Inch**	**Nominal O.D. Inch**	**Wt. lbs/ft**
1.50	1.9	0.94	Single to 6' or Double to 12'	3	3-1/2	2.621
1.50	1.9	0.94	Single over 6' to 13' or Double over 12' to 26' inclusive	3.50	4	3.151
1.50	1.9	0.94	Single over 13' to 18' or Double over 26' to 36'inclusive	6	6.625	6.564
1.50	1.9	0.94	Single over 18' or Double over 36'	8	8.625	9.878

(C) Wire Fences. Stretch the wires tightly with an accepted fence wire stretcher and stapled to each wooden post with zinc-coated staples or wired to each concrete post with several turns of tie wire. Staple or wire wood spreaders, if required by the contract, to each strand of the fence wires. The wire shall always be on the side of the fence that faces this pasturage when the fence impounds animals.

Brace the fence at corners and angles and anchor against pull according to details shown in the contract.

Dip wood posts before use in creosote as required on the plans. Set

posts vertically in the ground to the approximate depth shown on the plans. Tamp posts thoroughly into place.

607.04 Method of Measurement. The Engineer will measure the fence per linear foot complete in place. Measurement will be along the top of the fence from outside to outside of end post for each continuous run of fence.

The Engineer will measure the gate per each complete in place.

607.05 Basis of Payment. The Engineer will pay for the accepted fence at the contract unit price per linear foot complete in place. The price includes full compensation for clearing, grading, and grubbing; placing and crowning the concrete footing; installing temporary bracing; setting the tops of post; furnishing and installing the fence, wires, posts, top rail or top tension wires, grounds and its accessories; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

The Engineer will pay for the accepted gate at the contract unit price per each complete in place. The price includes full compensation for clearing, grading, and grubbing; placing and crowning the concrete footing; installing temporary bracing; furnishing and installing the gate and its accessories; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

The Engineer will make payment under:

Pay Item	**Pay Unit**
_____ - Feet, _____ Fence _____	Linear Foot "

END OF SECTION