1		SECTION 607 – CHAIN LINK FENCES AND GATES
2		
3		
4	607.01	<b>Description.</b> This section describes constructing chain link fences and
5 6	gates.	
7	607.02	Materials.
8	007.02	
9	Structura	l Concrete 601
10		
11	Chain Lir	nk Fence Materials 722
12		
13	607.03	Construction.
14		
15	(A	
16		acing at fence breaks or at intersections with existing fences to conform to
17	re	quired closure.
18		
19 20	~	For concrete embedded posts, braces, or anchors, install temporary
20 21	•	lys or braces to secure posts until concrete sets. Do not install materials posts, or strain guys and braces until seven days after concrete
21		acement. Crown top of concrete fence footings to shed water.
22	Pie	accinent. Orown top of concrete rence rootings to shed water.
24		Set top of posts to required height and alignment.
25		
26		Attach wire or fencing fabric firmly to posts and braces. Stretch taut
27	ar	d install to required height.
28		
29		Provide electrical ground conforming to Section 9 of the National
30		ectric Safety Code at each crossing of electric transmission, distribution, or
31	se	condary line.
32	(5	
33	(B	, i ii U
34 25		chedule of Chain Link Fence Posts. Space line posts at 10 feet maximum
35 36		erval, center to center of post, measured parallel to the ground. Install osts in vertical position.
30 37	μc	

TABLE 607.03-1 - SCHEDULE OF CHAIN LINK FENCE POSTS								
ZINC-COATED PIPE - NOMINAL								
Fence Height	Line Post		End, Corner & Pull Post		Brace		Top Rail	
(Feet)	OD Inch	Wt Ibs/ft	OD Inch	Wt Ibs/ft	OD Inch	Wt Ibs/ft	OD Inch	Wt Ibs/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								
Fence Height	Line Post		End, Corner & Pull Post		Brace		Top Rail	
(Feet)	OD Inch	Wt Ibs/ft	OD Inch	Wt Ibs/ft	OD Inch	Wt Ibs/ft	OD Inch	Wt Ibs/ft
3	2	1.264	3	2.621	1-1/4	0.786	1-1/4	0.786

Conform footing depths to Table 607.03-2 – Footing Depths.

TABLE 607.03-2 - FOOTING DEPTHS					
Type of Post	Fabric Height Inches	Footing Depth (Minimum) Feet			
Line Post	36	2			
End, Corner, and Gate Post	36	2.5			
Line Post	48	2.5			
Other Post		3			

 Use minimum footing diameter of 8 inches, or three times diameter of post, whichever is greater.

44						
45	For fence heights greater than 6 feet, brace end, corner, and gate					
46	posts to nearest line post with horizontal braces as compression members,					
47	and truss rods with turnbuckles as tension members. Provide brace and					
48	truss pull posts at intervals of 300 feet in both directions.					
49						
50	Install corner posts when fence line changes 30 degrees or more.					
50 51						
51 52	Dasa tan rail ar tan tanaian wira through hasa of lina nast tana ar					
	Pass top rail or top tension wire through base of line post tops or					
53	extension arms, and form continuous brace from end to end of each fence					
54	section.					
55						
56	Furnish top rails in approximate 20-foot lengths. Provide top rails with					
57	accepted outside couplings or expansion sleeves. Fasten top rail or top					
58	tension wire securely to terminal posts with rail ends and brace bands.					
59						
60	Furnish brace rails in required lengths.					
61						
62	(C) Fence Fabric. Fasten chain link fabric on designated side of posts.					
63	Position fabric to follow ground contour with bottom of fabric 2 inches above					
64	ground.					
65	ground.					
66	Provide knuckled finish on bottom edge of chain link fabric. For chain					
	•					
67	link fabric widths greater than 60 inches, provide twisted and barbed finish on					
68	top edge. For chain link fabric widths of 60 inches or less, provide knuckled					
69	finish on top edge.					
70						
71	Fasten top edge of chain link fabric to top rail or tension wire between					
72	posts. Fasten bottom edge of chain link fabric to tension wire between posts.					
73	Excavate high points of ground to install bottom tension wire on straight					
74	grade between posts. Do not fill depressions.					
75						
76	Fasten chain link fabric to end, corner, and gate posts with stretcher					
77	bars and stretcher bar bands spaced at 12 inches. Fasten chain link fabric to					
78	line posts and tension wires with tie wires or metal bands. Space tie wires or					
79	metal bands on line posts at approximately 14 inches, and on top rails and					
80	tension wires at approximately 24 inches.					
81						
82	(D) Gates. Furnish gate frames and posts from pipes conforming to Table					
82	607.03-3 – Gates (3 Feet to 6 Feet Height), or accepted shapes of equivalent					
83 84	structural strength. Cross-truss drive gates with adjustable truss rods					
	· · · · · · · · · · · · · · · · · · ·					
85	acceptable to the Engineer. Assemble from properly designed fittings, or by					
86	welding techniques acceptable to the Engineer.					
87						
88						

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- Use chain link fabric for gate. Attach fabric to gate frame by stretcher
  bars and tie wires, as specified for fence construction, and suitable tension
  connectors spaced at approximately 12 inches.
  - For gate heights up to 60 inches, hang gate with two hinges. For gate heights greater than 60 inches, hang gate with three hinges. Provide hinges designed to clamp securely to gate post, and permit gate to swing back against fence.
    - Provide gates with combination catch and locking attachment of design acceptable to the Engineer. Provide stops to hold gates open and center rest with catch where required.

TABLE 607.03-3 - GATES (3 FEET TO 6 FEET HEIGHT)					
ZINC-COATED PIPE					
GAT	E FRAMES	GATE OPENING	GATE POSTS		
O.D. Inch	Nominal Weight Ibs/ft		O.D. Inch	Nominal Weight Ibs/ft	
1-7/8	2.72	Single to 6' or Double to 12'	3	5.79	
1-7/8	2.72	Single over 6' to 13' or Double over 12' to 26' inclusive	4	9.11	
1-7/8	2.72	Single over 13' to 18' or Double over 26' to 36' inclusive	6-5/8	18.97	
1-7/8	2.72	Single over 18' or Double over 36'	8-5/8	24.70	

TABLE 607.03-3 - GATES (Continued)							
ALUMINUM PIPE							
GATE FRAMES				GATE POSTS			
Nominal Size Inch	Nominal O.D. Inch	Wt. Ibs/ft	GATE OPENING	Nominal Size Inch	Nominal O.D. Inch	Wt. Ibs/ft	
1-1/2	1.9	0.94	Single to 6' or Double to 12'	3	3-1/2	2.621	
1-1/2	1.9	0.94	Single over 6' to 13' or Double over 12' to 26' inclusive	3-1/2	4	3.151	
1-1/2	1.9	0.94	Single over 13' to 18' or Double over 26' to 36'inclusive	6	6-5/8	6.564	
1-1/2	1.9	0.94	Single over 18' or Double over 36'	8	8-5/8	9.878	

103

104

105 607.04 Measurement. Fence and gate will be paid on a lump sum basis.
 106 Measurement for payment will not apply.

107

108 **607.05 Payment.** The Engineer will pay for accepted fence and gate on a 109 contract lump sum basis. Payment will be full compensation for work prescribed in 110 this section and contract documents.

111

111 The Engineer will pay for following pay items when included in proposal 112 schedule:

113	Pay Item	Pay Unit
114	Feet, Chain Link Fence	Lump Sum
115 116 117	Chain Link Gate, Feet High And Feet Wide	Lump Sum
118	END OF SECTION 607	