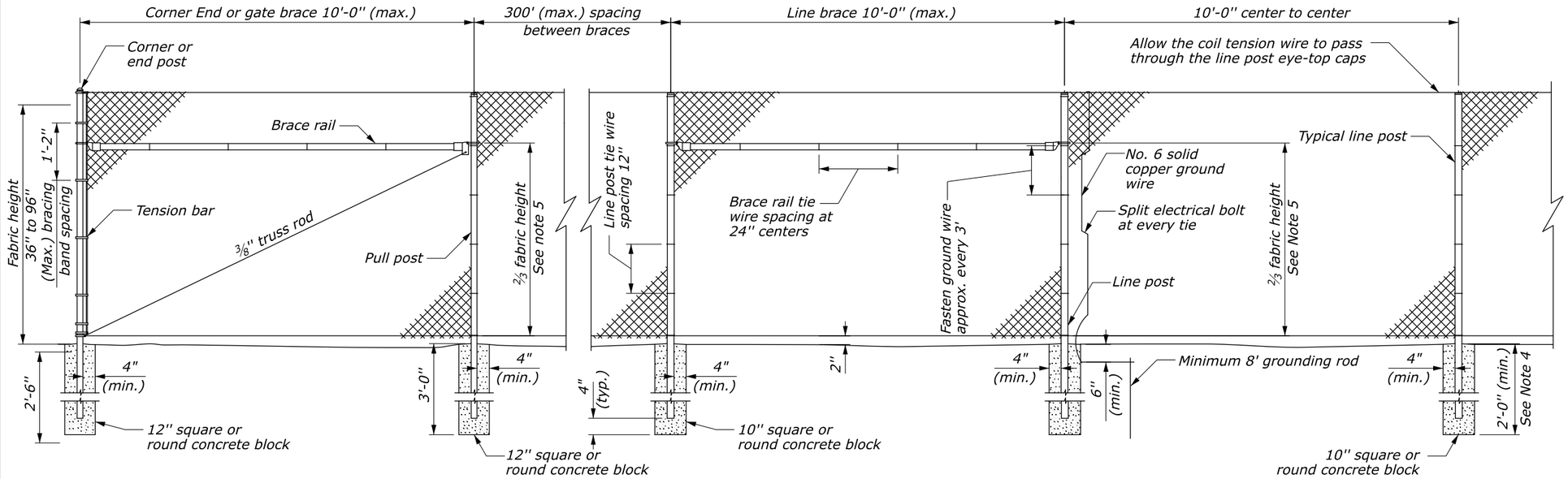
STATE	PROJECT	SHEET NUMBER



NOTES:

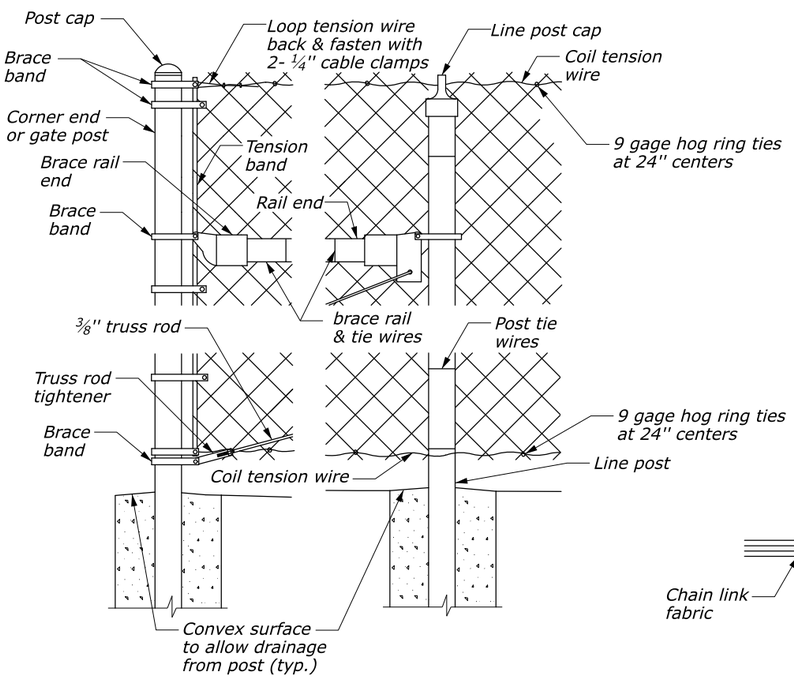
1. Furnish metal post and rails conforming to ASTM F 689.
2. Use Type 1 requirements from chain link fence table unless otherwise specified.
3. Set all post in concrete. Set corner, end, and pull posts to the dimension shown. Ensure the minimum depth of concrete for line posts is 24 inches. Increase depth by 3 inches for each addtional foot of fence height over 4 feet.
4. Install braces on all terminals on fences without a top rail. No braces are required on fabric 6 feet in height or less where a top rail is specified. Install braces where fabric is over 6 feet in height. Where a top rail is used, attach the brace at the halfway point of the terminal post above grade and, where the rail is omitted, at the two-thirds point above grade. Do not install top rail unless specified in the Special Contract Requirements.
5. Adjust the post top elevations to provide a smooth visual fence profile. Install corner posts at horizontal breaks in the fence at 15° or more.
6. If alternate steel posts are used, provide fastening bands, caps, brace rail, rail ends, and truss rod attaching hardware compatible with the post sizes ans styles selected.
7. Provide fence fabric with a 2-inch mesh. Use 11-gage wire in fabric heights of 48 inches or less, and 9-gage wire in fabric heights greater than 48 inches. Provide Class D coating when zinc-coated steel fence frabric is used. Knuckle both selvages on fabric less than 72 inches high. For fabric 72 inches or higher, Knuckle one selvage and twist the other.
8. See Detail E619-09, sheet 2 of 2 for hardware and gate requirements.

CHAIN LINK FENCE

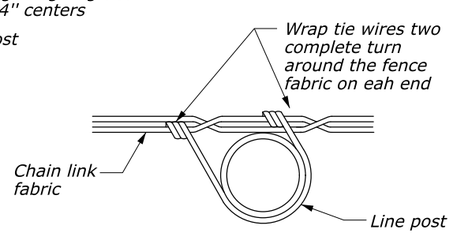
CHAIN LINK FENCE

POST SIZE AND WEIGHT TABLE

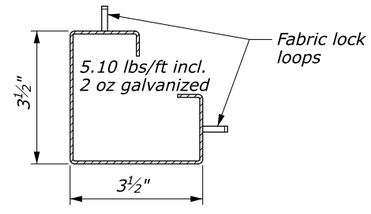
DESCRIPTION	FENCE TYPE	ROUND PIPE				HOT ROLLED SHAPE				ROLLED FORMED	
		Steel		Aluminum		Steel		Steel		Steel	
		Minimum yield strength Psi.									
		25,000		25,000		50,000		45,000		45,000	
		Size and mass									
		dia. inch	mass lbs/ft	dia. inch	mass lbs/ft	dia. inch	mass lbs/ft	dia. inch	mass lbs/ft	dia. inch	mass lbs/ft
Brace rail & top rail	Type 1	1.66	2.27	1.660	0.786	1.66	1.40	------	------	1¼ x 1⅝	1.40
	Type 2	1.66	1.82	------	------	1.66	1.40	------	------	1¼ x 1⅝	1.40
Line post	Type 1	2.375	3.65	2.375	1.264	2.375	3.12	2¼ x 1 45/64	3.26	2¼ x 1⅝	2.70
	Type 2	2.375	2.96	------	------	2.375	2.31	------	------	1⅞ x 1⅝	2.76
End, corner & pull post	Type 1	2.875	5.79	2.875	2.004	2.875	4.64	------	------	3½ x 3½	5.10
	Type 2	2.875	4.69	------	------	2.875	3.25	------	------	3½ x 3½	5.10



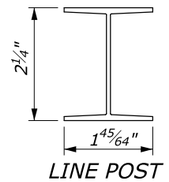
CHAIN LINK DETAIL



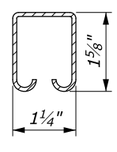
CHAIN LINK FENCE TIE DETAIL



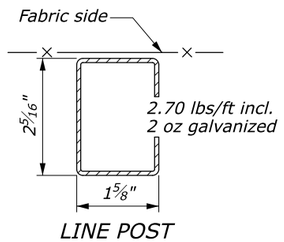
END OR CORNER POST



LINE POST

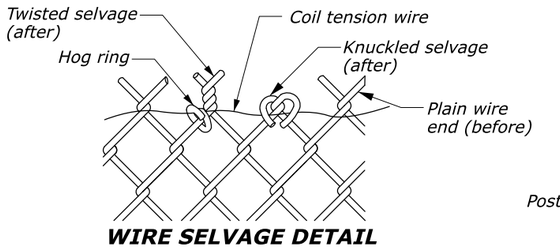


TOP & BRACE RAIL

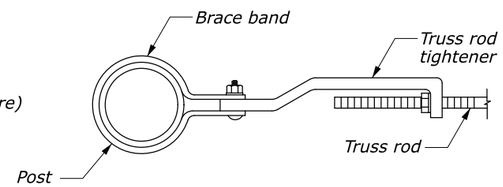


LINE POST

ALTERNATE STEEL POST & BRACE SECTIONS



WIRE SELVAGE DETAIL



TRUSS ROD TIGHTENER DETAIL

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
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OFFICE OF FEDERAL LANDS HIGHWAY

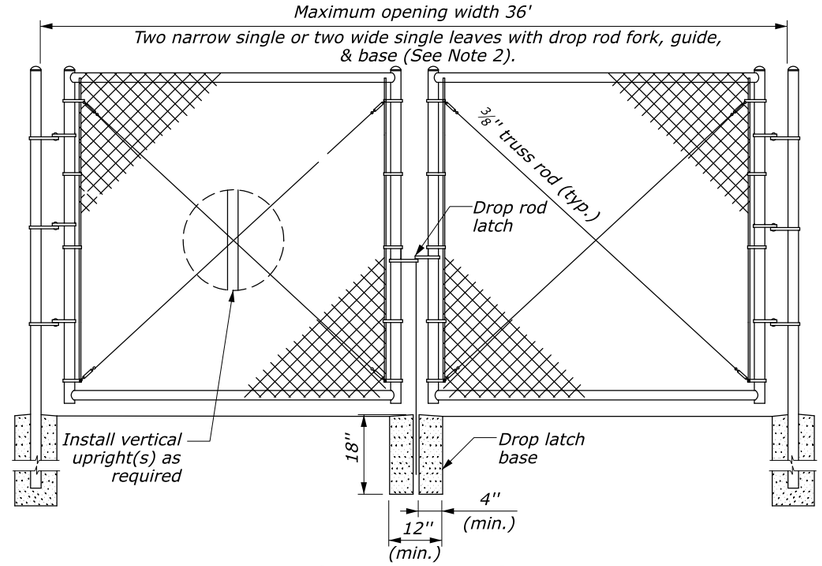
EFLHD DETAIL

CHAIN LINK FENCE AND GATE

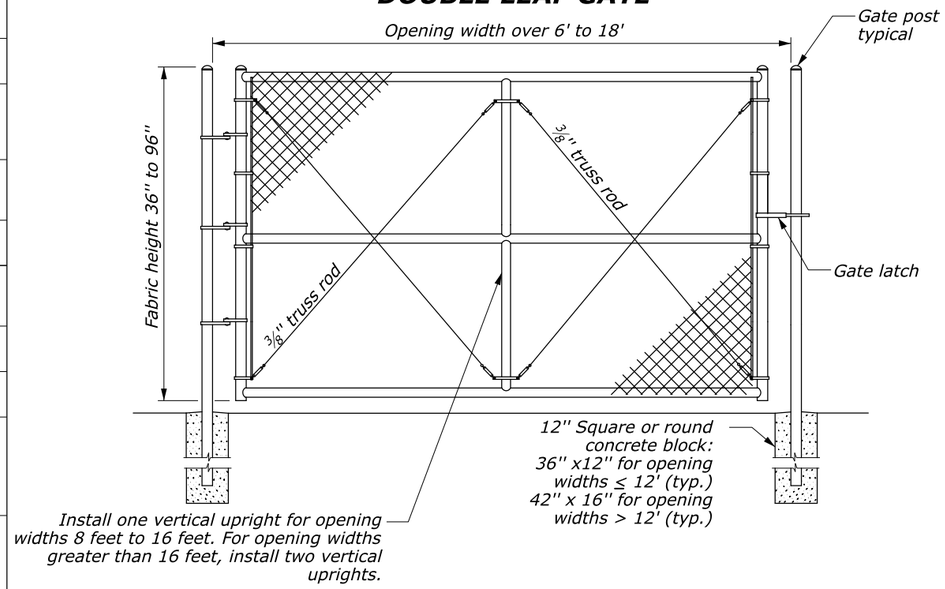
Sheet 1 of 2

DETAIL APPROVED FOR USE	DETAIL
APPROVED: MAY 2011 REVISED: SEPTEMBER 2020	E619-09

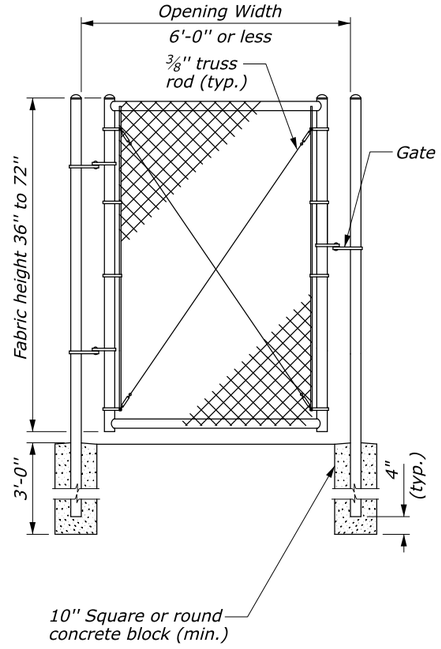
HARDWARE ITEM DESCRIPTION	STANDARD REQUIREMENTS
Brace rail and top rail	See table on Detail E619-09
Line post	See table on Detail E619-09
Corner; end and pull posts	See table on Detail E619-09
Post cap	Cast non-ferrous alloy or galvanized pressed steel cap must fit snugly on post and gate topa
Line post cap	Galvanized pressed steel minimum '' 3/32'' thickness or galvanized malleable ferrous alloy
Tension band	Minimum 3/32'' x 5/16'' galvanized steel
Brace band	Minimum 3/32'' x 5/16'' galvanized steel
Band bolt	Minimum 5/16'' x 1¼'' galvanized carriage bolt, (Lock washer & flat washer for each band0
Rail end	Galvanized pressed steel or galvanized malleable ferrous alloy minimum...'' 3/8'' thickness on back bolting appendage
Brace rail end	Galvanized pressed steel or galvanized malleable ferrous alloy minimum'' 3/8'' thickness on back bolting appendage
Truss rod tightener	Minimum ¼'' formed galvanized steel
Truss rod	3/8'' galvanized, NC threaded rod, lock washer, & flat washer with two 90° bends opposite of threaded end
Top rail sleeve	Galvanized steel 0.051'' minimum thickness by 6'' minimum length
Tension bar	Minimum 3/16'' x ¾'' galvanized steel
Fence fabric	2'' diamond mesh fabric, See note no. 4 on Detail E619-07 of Sheet 1
Tie wires	Minimum 9 gage aluminum with one hooked end
Coil tension wire	0.177'' minimum diameter metalic coated wire
Gate latch	Minimum ⅛'' galvanized pressed steel or malleable ferrous alloy. 1 latch per each single gate with bent minimum 3/8'' attachment bolt, washer & nut.
Frame hinge	Minimum ⅛'' galvanized pressed steel with 2 - 3/8'' U-bolts, lockwasher & nuts per hinge. Use 2 hinges per gate leaf up to 8' in width and 3 hinges per gate leaf widths greater than 8'.
Drop rod latch & guide	Minimum ⅛'' galvanized presed steel. Drop rod guide includes 3/8'' x 3'' carriage bolt with lock washer & nut. Weld drop rod fork to rod & paint with an approved zinc rich paint.



DOUBLE LEAF GATE



WIDE SINGLE LEAF GATE



NARROW SINGLE LEAF GATE

CHAIN LINK GATE							
POST AND FRAME SIZE AND MASS TABLE							
GATE LEAF WIDTHS		ROUND PIPE					
		Steel		Aluminum		Steel	
		Minimum yield strength Psi.					
		25,000		25,000		50,000	
		Size and mass					
		dia. inch	lbs/ft (min.)	dia. inch	lbs/ft (min.)	dia. inch	lbs/ft (min.)
6 feet or less	Gate	2.875	4.64	2.875	1.94	2.875	4.64
Over 6 feet to 12 feet	post	4.000	8.65	4.000	2.99	4.000	6.56
Over 12 feet to 18 feet	size	6.625	18.02	-------	-------	-------	-------
Outside frame member	frame	1.900	2.28	1.900	1.900	1.900	2.28
Interior bracing member	size	1.660	1.83	1.900	1.900	1.660	1.84

NOTES:

1. Reinforce the gate frame corners with a malleable iron or pressed steel fitting designed for the purpose or shop weld the corners. Grind smooth all welds and paint each gate with the necessary hinges, latch, and drop rod locking device design for the type of gate posts and used on the project. Provide positive type latching devices with provisions for pad locking at all gates. Provide keepers to retain the gate in the open position.
2. Use alternate gate frames constructed of steel section, other than pipe, as approved by the CO.
3. The design of the chain link hardware may vary from the details shown. Ensure all hardware and materials used in a single installation are uniform and compatible.

STATE	PROJECT	SHEET NUMBER

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
OFFICE OF FEDERAL LANDS HIGHWAY

EFLHD DETAIL

CHAIN LINK FENCE AND GATE

Sheet 2 of 2

DETAIL APPROVED FOR USE	DETAIL
APPROVED: MAY 2011 REVISED: SEPTEMBER 2020	E619-09