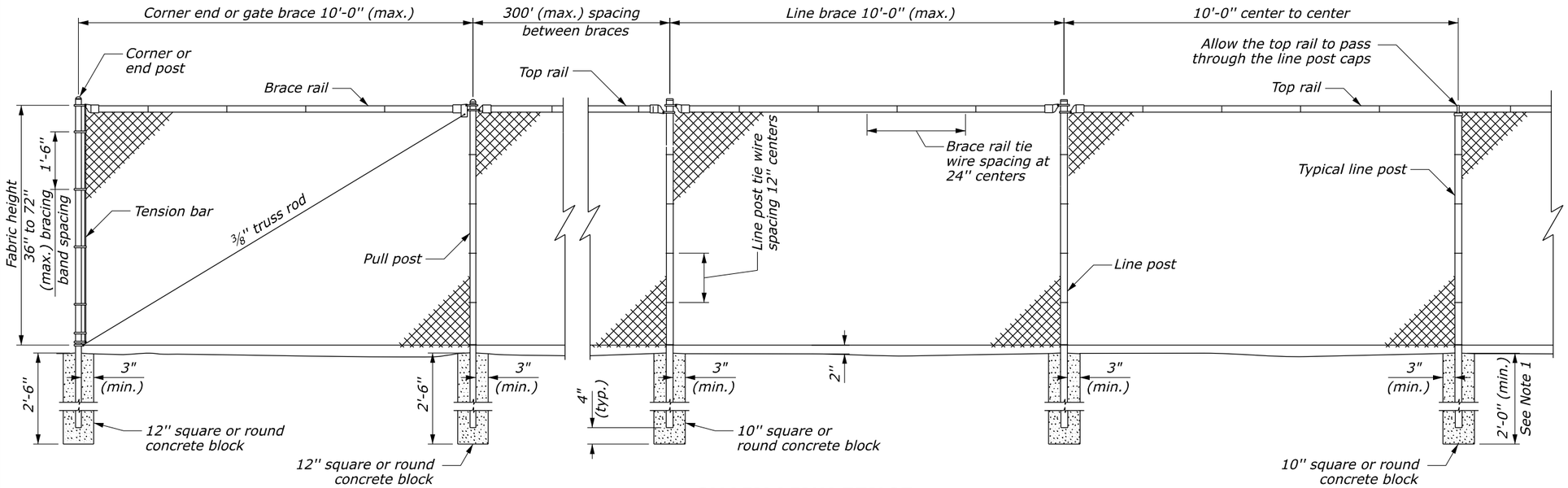
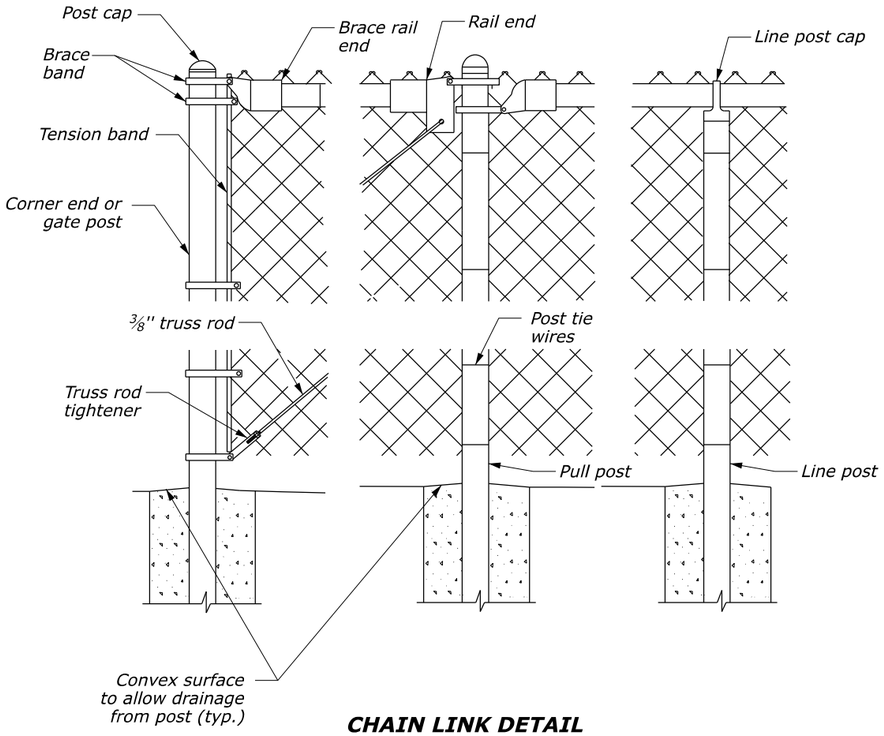
PROJECT	SHEET NUMBER



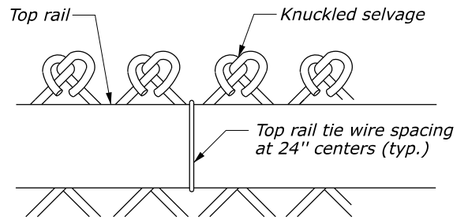
CHAIN LINK FENCE

NOTES:

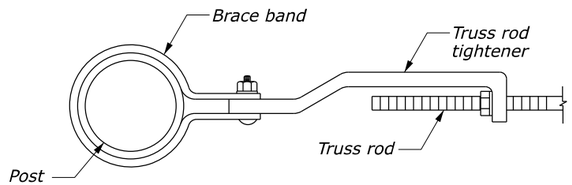
1. Set all posts in concrete. Set corner, end, and pull posts to the dimensions shown. Set line posts to a minimum depth of 24 inches in concrete. Increase depth by 3 inches for each additional foot of fence height over 4 feet.
2. Adjust the post top elevations to provide a smooth visual fence profile. Install corner posts at horizontal breaks in the fence at 15° or more.
3. 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 fabric is provided. Knuckle both selvages on fabric.
4. See Sheet 2 of 2 for hardware and gate requirements.



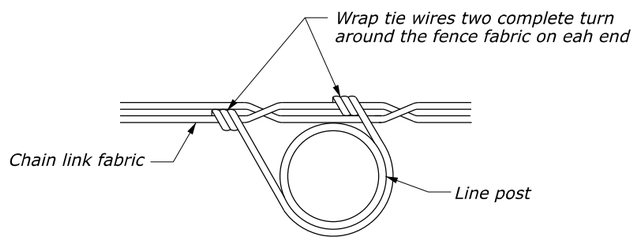
CHAIN LINK DETAIL



WIRE SELVAGE DETAIL



TRUSS ROD TIGHTENER DETAIL



CHAIN LINK FENCE TIE DETAIL

NO SCALE

CHAIN LINK FENCE

POST SIZE AND WEIGHT TABLE

DESCRIPTION	FENCE HEIGHT	ROUND PIPE Yield strength 25,000 Psi (min.)	
		dia. inch	lbs/ft (min.)
Brace rail & top rail	5 feet or less	1.315	0.740
	6 feet	1.315	0.740
Line post	5 feet or less	1.660	1.107
	6 feet	1.900	1.273
End, corner & pull post	5 feet or less	1.400	1.273
	6 feet	2.375	1.603

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

RESIDENTIAL CHAIN LINK FENCE

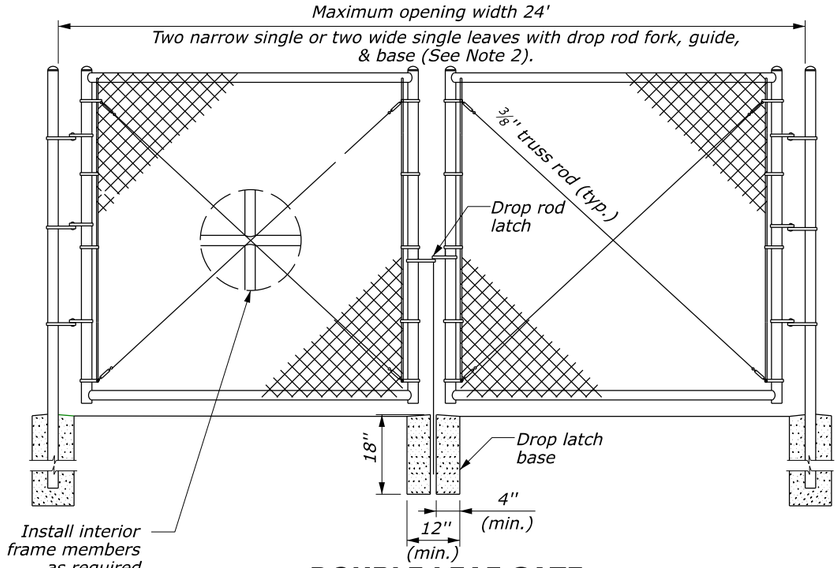
Sheet 1 of 2

EFLHD DETAIL E619-07

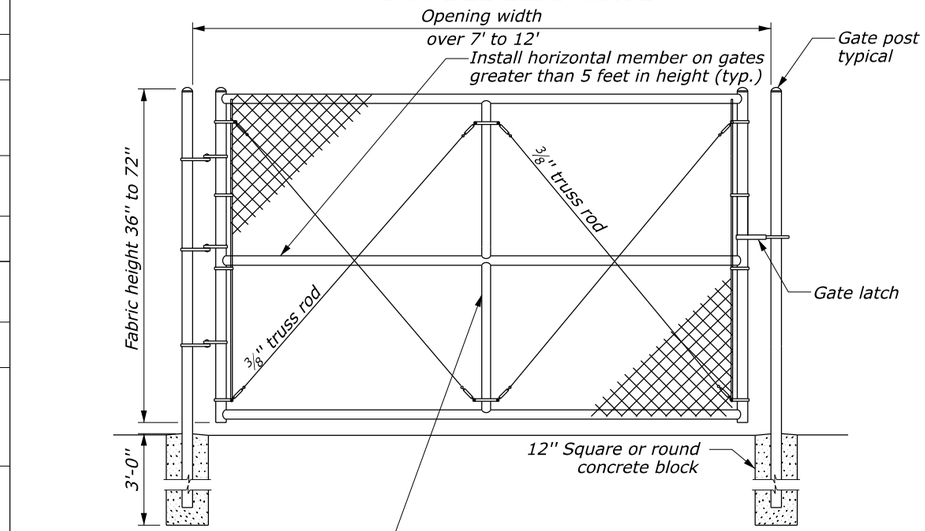
SPECIFICATION FP-14

APPROVED FOR USE 06/2024

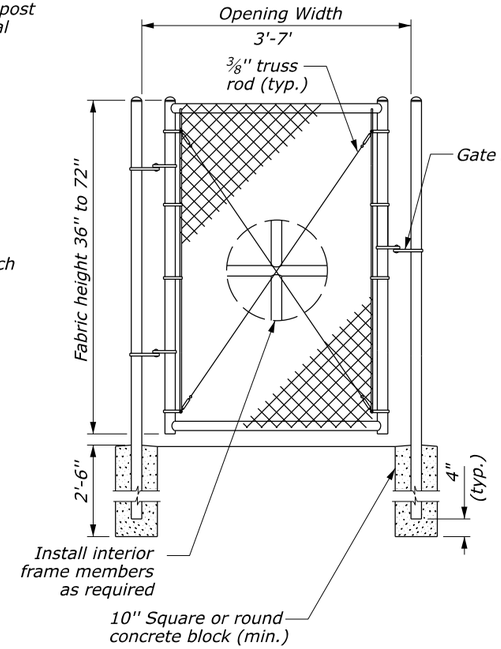
HARDWARE ITEM DESCRIPTION	STANDARD REQUIREMENTS
Brace rail and top rail	See table on Detail E619-09, Sheet 1 of 2
Line post	See table on Detail E619-09, Sheet 1 of 2
Corner; end and pull posts	See table on Detail E619-09, Sheet 1 of 2
Post cap	Cast non-ferrous alloy or galvanized pressed steel cap must 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 band)
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 4 on Detail E619-07, Sheet 1 of 2
Tie wires	Minimum 9 gage aluminum with one hooked end
Gate latch	Minimum 1/8" 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 1/8" 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 1/8" 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

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 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.
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.

CHAIN LINK GATE

POST AND FRAME SIZE AND MASS TABLE									
		Minimum yield strength 25,000 Psi							
GATE LEAF WIDTHS		ROUND TUBING				SQUARE TUBING			
		Steel		Aluminum		Steel		Aluminum	
		dia. inch	lbs/ft (min.)	dia. inch	lbs/ft (min.)	dia. inch	lbs/ft (min.)	dia. inch	lbs/ft (min.)
4 feet or less	Gate	1.90	1.257	1.90	0.866	2 x 2	2.35	2 x 2	0.94
Over 4 feet to 7 feet	post	2.375	2.135	2.375	1.260	2.5x2.5	2.728	2.5x2.5	1.265
Over 7 feet	size	2.375	3.117	2.375	2.00	2.5x2.5	3.882	2.5x2.5	2.904
Outside frame member	frame	1.315	0.866	1.315	0.435	1.25x1.25	1.048	1.25x1.25	0.576
Interior bracing member	size	1.315	0.866	1.315	0.435	1.25x1.25	1.048	1.25x1.25	0.576

NO SCALE

PROJECT	SHEET NUMBER

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

RESIDENTIAL CHAIN LINK FENCE HARDWARE AND GATE
Sheet 2 of 2

EFLHD DETAIL
E619-07
SPECIFICATION
FP-14
APPROVED FOR USE
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