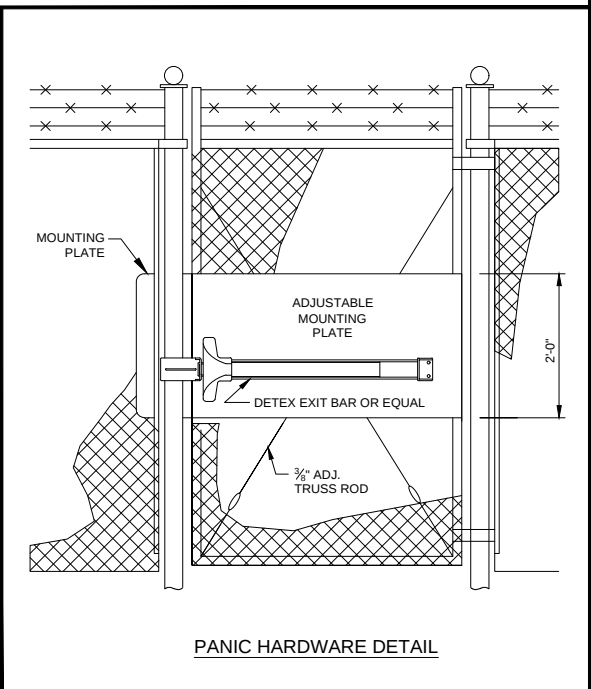
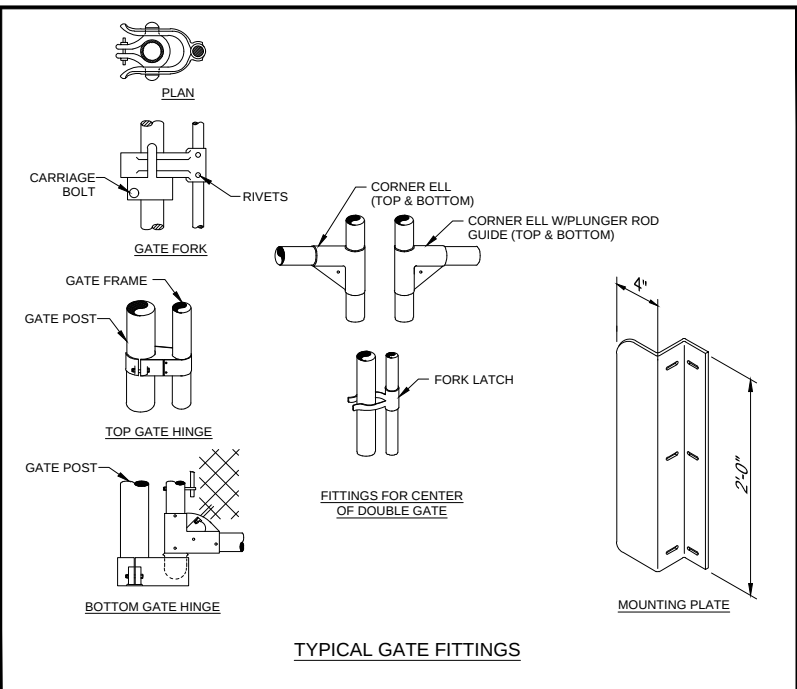
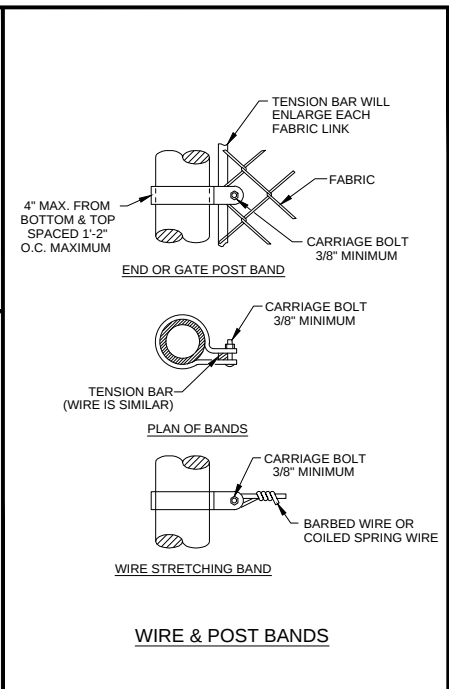
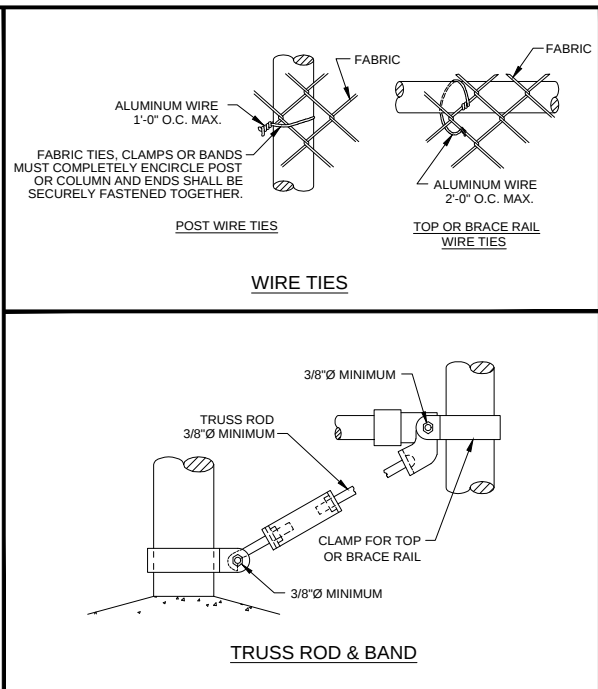
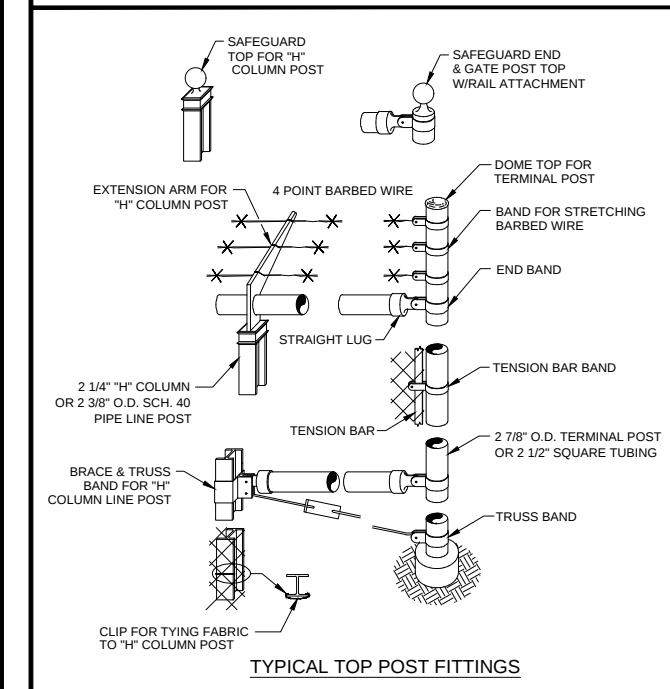
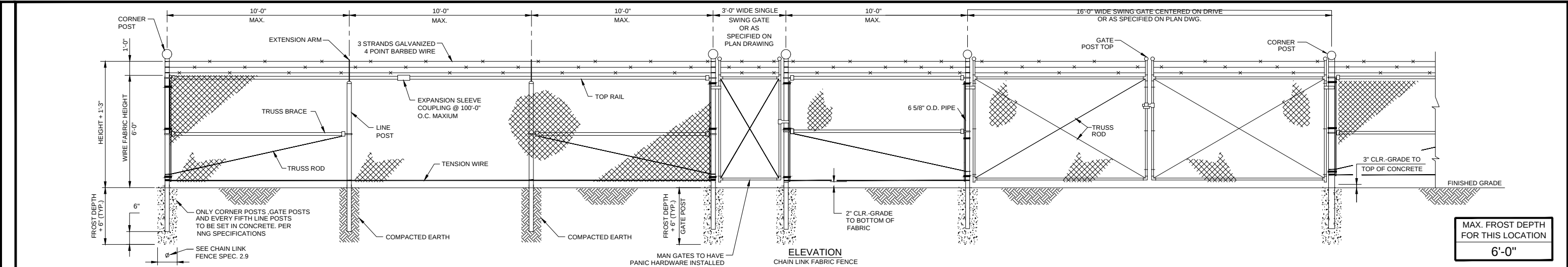




CHAIN LINK FENCE SPECIFICATIONS

1. INSTALLATION

FENCE ADDITION SHALL BE PLUMB AND TRUE TO LINE, CHAIN LINK FABRIC SHALL BE TAUT AND PROPERLY SECURED, CORNER BRACES AND DIAGONAL BRACES SHALL BE PROPERLY PLACED TO PREVENT SAGGING. THE COMPLETE INSTALLATION SHALL BE INSTALLED BY SKILLED AND, EXPERIENCED FENCE ERECTORS AND IN ACCORDANCE WITH A.S.T.M. F-567, PRACTICE FOR INSTALLATION OF CHAIN LINK FENCE, AND ALL APPLICABLE STATE AND LOCAL CODES.

2. MATERIAL

2.1 CHAIN LINK FENCE FABRIC

THE CHAIN LINK FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-392 SPECIFICATIONS AND SHALL BE HOT-DIPPED GALVANIZED AFTER WEAVING, HAVING A COATING WEIGHT OF TWO (2) OUNCES OF ZINC PER SQUARE FOOT, MINIMUM, OF COATED WIRE SURFACE (CLASS II). FABRIC SHALL BE FASTENED TO THE LINE POST BY MEANS OF NO. 6 GAUGE ALUMINUM WIRE CLIPS SPACED 12 INCHES ON CENTER. IT SHALL BE ATTACHED TO THE TOP RAIL WITH NO. 9 GAUGE ALUMINUM TIE WIRES SPACES 24 INCHES ON CENTER. FABRIC SHALL BE ATTACHED TO TERMINAL POSTS BY MEANS OF A 1/2" x 3/4" TENSION BAR WITH HEAVY GAUGE PRESSED STEEL BAND OR CLIPS SPACED APPROXIMATELY 14 INCHES ON CENTER. THE GALVANIZED FENCE FABRIC SHALL CONFORM TO ASTM F668-88, CLASS 2a MATERIAL. FINISHED SIZE SHALL BE 6-GAUGE (FINISHED) WITH 9-GAUGE CORE WIRE OR AS SPECIFIED ON DRAWINGS. FABRIC SHALL HAVE A KNUCKLE TOP AND BOTTOM SELVAGE.

2.2 ZINC COATING

ALL FENCE MATERIALS SHALL BE RESISTANT TO ATMOSPHERIC CORROSION WITHOUT PAINTING OR BE PROTECTED BY A ZINC COATING (GALVANIZED). POSTS, BRACES, FITTINGS AND EXTENSION ARMS SHALL BE HOT GALVANIZED WITH A MINIMUM COATING OF 2.0 OZ PER SQUARE FOOT IN ACCORDANCE WITH ASTM A 123.

2.3 FENCE POSTS

END, CORNER, ANGLE AND PULL POSTS SHALL BE 3" OR 2 7/8" OUTSIDE DIAMETER STEEL PIPE WEIGHING 5.79 LBS/FT. LINE POSTS SHALL BE 2 3/8" OUTSIDE DIAMETER STEEL PIPE WEIGHING 3.65 LBS/FT. ALL POSTS ARE TO BE 9 FEET LONG (MINIMUM) AND SPACED NOT MORE THAN 10 FEET APART.

2.4 POST CAPS OR EXTENSION ARMS

TOPS OF ALL FENCE POSTS WILL BE SEALED WITH A WATER TIGHT END CAP OR EXTENSION ARM. EXTENSION ARMS SHALL ACCOMMODATE 3 STRANDS OF BARBED WIRE 3 TO 5 INCHES APART AND SHALL BE MALLEABLE IRON FOR CORNER POSTS AND PRESSED STEEL FOR LINE POSTS.

2.5 TOP RAILS AND BRACES

TOP RAILS AND BRACES SHALL BE 1 1/2" OUTSIDE DIAMETER STEEL PIPE WEIGHING 2.27 LBS/FT. A MINIMUM OF ONE EXPANSION COUPLING WILL BE REQUIRED PER 100-FOOT LENGTH OF TOP FENCE.

2.6 WIRE

FABRIC TENSION WIRE SHALL BE #6 AWG OR HEAVIER COILED STEEL FABRIC SHALL BE FASTENED TO ALL LINE POSTS, TOP RAILS AND BRACES USING #9 AWG, ALUMINUM WIRE SPACED NOT MORE THAN 2 FEET APART. BARBED WIRE SHALL BE TWISTED DOUBLE STRAND, 12-1/2 AWG, GALVANIZED WITH 4-POINT PATTERN, ALUMINUM BARBS.

2.7 GATE POSTS

POSTS FOR SWING GATES SHALL BE AS FOLLOWS:
GATE WIDTH (FEET) CARBON STEEL PIPE GATE POSTS
6 AND LESS 3 INCH O.D., 5.79 LBS/FT
OVER 6 UP TO 13 4 INCH O.D., 9.10 LBS/FT
OVER 13 UP TO 18 6-5/8 INCH O.D., 18.97 LBS/FT
OVER 18 8-5/8 INCH O.D., 25.00 LBS/FT

POSTS FOR SLIDING GATES SHALL BE CARBON STEEL PIPE, 4" O.D., 9.1 LBS/FT FOR GATE WIDTHS 30 FEET OR LESS AND 6 3/8" O.D., 18.97 LBS/FT FOR GATES OVER 30 FEET WIDE.

2.8 GATES

GATES SHALL BE FULLY WELDED AND SUPPORTED WITHOUT SAG IN ANY DIRECTION. GATE FRAMES ARE TO BE STANDARD STEEL PIPE WITH 2" O.D. STILES AND RAILS AND 1 1/2" INCH O.D. BRACING. SLIDING GATES SHALL BE EQUIPPED WITH PIPE EXTENSIONS FOR TROLLEY SUPPORTS FROM OVERHEAD TRACK. HINGES ARE TO BE DOUBLE CLAMPING, OFFSET TYPE, 180° SWING, MALLEABLE IRON CASTINGS. SINGLE SWING GATES LESS THAN 10 FEET WIDE SHALL HAVE A FORK LATCH DOUBLE SWING GATES SHALL HAVE ECCENTRIC DOUBLE LOCKING TYPE LATCHES WHICH ENGAGE STRIKES SECURELY BOLTED TO THE GATE FRAMES AT BOTH TOP AND BOTTOM AND SHALL INCLUDE A HEAVY MALLEABLE IRON GATE STOP TO BE ANCHORED IN A CONCRETE FOOTING AT THE CENTER OF THE DOUBLE GATE OPENING. LATCHES SHALL HAVE PROVISIONS FOR PADLOCKING; PADLOCKS ARE NOT TO BE FURNISHED. EMERGENCY GATE LATCH AND SHROUD SHALL BE GALVANIZED. GALVANIZING DAMAGED BY FIELD ATTACHMENT OF EMERGENCY GATE LATCH AND SHROUD SHALL BE COATED WITH A ZINC-RICH PAINT, "GALVANOX".

2.9 CONCRETE

EVERY FIFTH POST SHALL BE SET IN CYLINDRICAL CONCRETE FOUNDATIONS WITH TOP OF FINISHED CONCRETE SURFACE 2" ABOVE FINISHED GRADE. EXCAVATION SHALL BE A MINIMUM OF 6 INCHES BELOW FROST DEPTH AND NOT LESS THAN 12" IN DIAMETER FOR ALL POSTS, AND NOT LESS THAN 3.5 TIMES THE DIAMETER OF TERMINAL AND GATE POSTS. CONCRETE SHALL MEET ACI-318 SPECIFICATION FOR 3000 PSI-28 DAY STRENGTH CONCRETE.

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DRAWING1

INTERNAL INFORMATION

DISTRIBUTION/COPIES LIMITED TO PROJECT NEEDS

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NO.	REVISION - DESCRIPTION			BY	DATE	CHK'D	APP'D

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STATUS	CHECKED		APPROVED		FAC. CODE:		REL. W.O. N/A	
	BY	DATE	BY	DATE	PL#	CONST. YR	2021	
PRELIM					STA# N/A	POI#	DATE	
BID					DESIGN			
CONST.					ASBUILT			
					FILE NO.			
					SCALE: N/A			

FACILITY NAME
PROJECT NAME
TYPICAL FENCE DETAILS
SEC. XX, TXXXX, RXXX
COUNTY, STATE

Northern
Natural Gas
WORK ORDER NO.
XXXXXXXX
DWG. NO.
P11-X