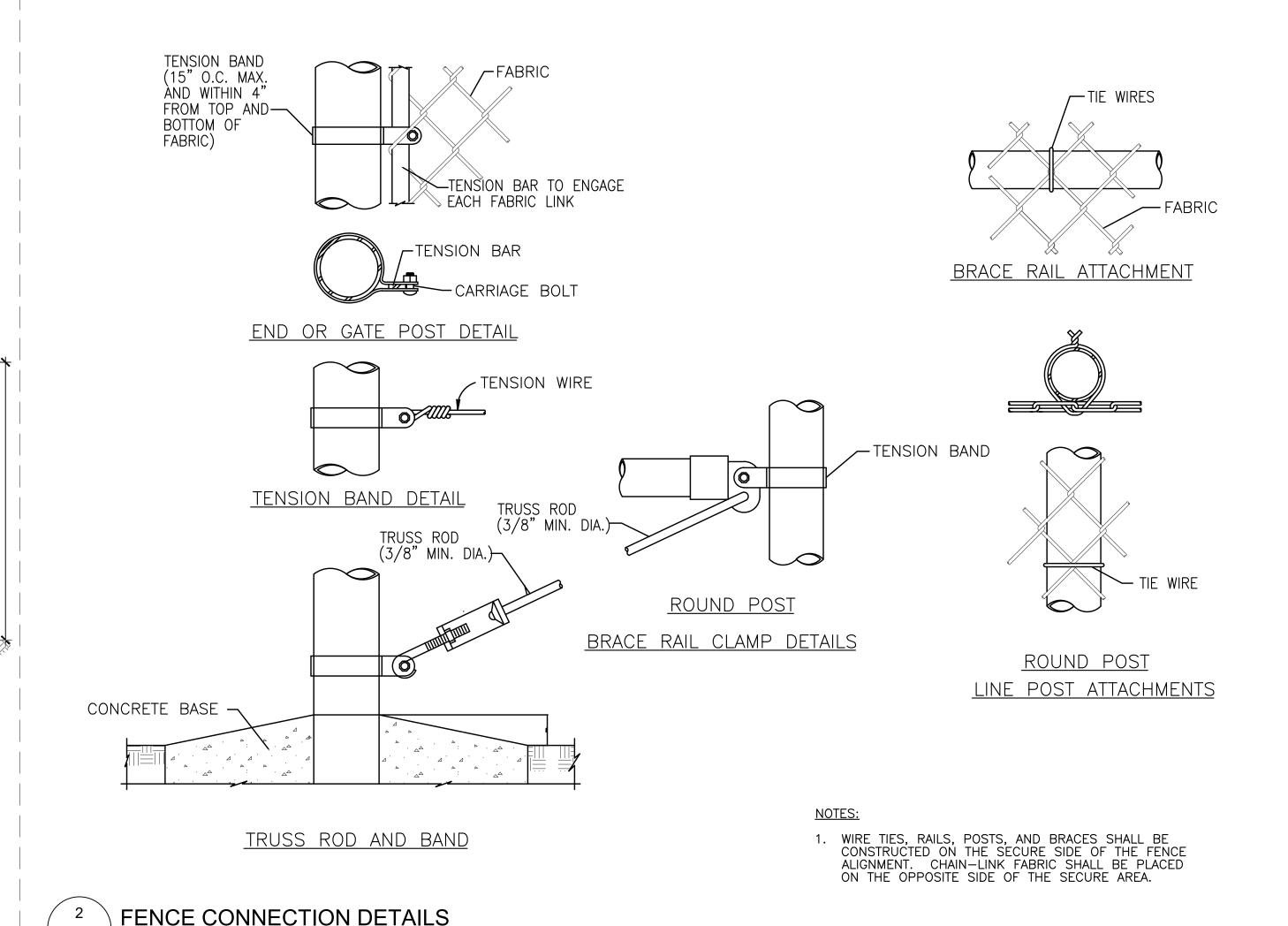
THE TIME OF INSTALLATION TO PREVENT

ENTRAPMENT AND DEATH OF BIRDS -FENCE POST CAP 10'-0" O.C. TYP. - FENCE POST CAP BRACE AT GATE-24'-0" MAX. GATE OPENING POST TO NEAREST LINE -7GA. COIL SPRING GALV. TENSION FENCE POST, "B" WIRE (TERMINAL END, CORNER AND PULL POST) FENCE POST, "A" FENCE POST, "C"-(LINE POST) —FENCE POST, "C" TIE ROD (3/8" MIN (GATE POST) (GATE POST) -TIE WIRES OR HOG RINGS (TYP.) -7GA. COIL SPRING GALV. TENSION -CONC. FENCE POST GATE FOOTING-FOOTING f'c = 2,500DIA. CROWN TOP OF TYP. AT TYP. AT CORNER CONCRETE TO PREVENT TYP. AT GATE LINE POST & END POST WATER ACCUMILATION AT PIPE BASE. PROVIDE 12" HIGH WILDLIFE ACCESS FOR 50'-0" LENGTH AT 100 FEET APART / 1



CHAIN LINK FENCING AND GATES

 $\sqrt{S-3.5}$ Scale: $1/\overline{4'' = 1'-0''}$

FENCE ELEVATION

REFERENCES

- A. ASTM A121 SPECIFICATION FOR METALLIC-COATED CARBON STEEL BARBED WIRE
- B. ASTM A392 SPECIFICATION FOR ZINC-COATED STEEL CHAIN-LINK FENCE FABRIC
- C. ASTM A780 STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATING D. ASTM A817 SPECIFICATION FOR METALLIC-COATED STEEL WIRE FOR CHAIN LINK FENCE FABRIC AND MARCELLED TENSION WIRE
- E. ASTM A824 SPECIFICATION FOR METALLIC-COATED STEEL MARCELLED TENSION WIRE FOR USE WITH CHAIN LINK
- F. ASTM F552 STANDARD TERMINOLOGY RELATING TO CHAIN LINK FENCING
- G. ASTM F567 STANDARD PRACTICE FOR INSTALLATION OF CHAIN LINK FENCE
- H. ASTM F626 SPECIFICATION FOR FENCE FITTINGS
- I. ASTM F900 SPECIFICATION FOR INDUSTRIAL AND COMMERCIAL SWING GATES
- J. ASTM F1043 SPECIFICATION FOR STRENGTH AND PROTECTIVE COATINGS OF METAL INDUSTRIAL CHAIN LINK FENCE
- K. ASTM F1083 SPECIFICATION FOR PIPE, STEEL, HOT-DIPPED ZINC-COATED (GALVANIZED) WELDED, FOR FENCE
- L. ASTM F1910 SPECIFICATION FOR LONG BARBED TAPE OBSTACLES
- M. ASTM F1911 STANDARD PRACTICE FOR INSTALLATION OF BARBED TAPE
- SHOP DRAWINGS: SITE PLAN SHOWING LAYOUT OF FENCE LOCATION WITH DIMENSIONS, LOCATION OF GATES AND OPENING SIZE, CLEARED AREA, ELEVATION OF FENCE, GATES, FOOTINGS AND DETAILS OF ATTACHMENTS. CERTIFICATIONS: MANUFACTURERS MATERIAL CERTIFICATIONS IN COMPLIANCE WITH THE CURRENT ASTM SPECIFICATIONS.
- FENCE CONTRACTOR SHALL BE A COMPANY WITH DEMONSTRATED SUCCESSFUL EXPERIENCE INSTALLING SIMILAR PROJECTS AND PRODUCTS IN ACCORDANCE WITH ASTM F 567.
- CURRENT PUBLISHED EDITION OF ASTM SPECIFICATIONS TOLERANCES APPLY. ASTM SPECIFICATION TOLERANCES SUPERSEDE ANY CONFLICTING TOLERANCE.
- 5. CHAIN LINK FABRIC
- A. STEEL CHAIN LINK FABRIC:
 - a. 11GA. x 2" STEEL GBW FABRIC (COLOR PER CUP REQUIREMENTS) w/ KNUCKLED BOTTOM
 - b. AT ENDS OF FABRIC ROLLS, USE WOVEN WIRE SPLICES WOVEN TOGETHER

A. ROUND STEEL PIPE AND RAIL: ASTM A53 GR. B (35,000 PSI YIELD STRENGTH), SS-40, OR LG-40 (Fy = 50,000 PSI YIELD STRENGTH). OR AP40 PIPE. HOT DIP GALVANIZED ZINC EXTERIOR AND HOT DIP GALVANIZED ZINC INTERIOR

Scale: N.T.S

- c. LINE POST
- d. END, CORNER,
- e. BRACE, Bottom and Intermediate Rails to be 7 Ga. Galvanized Tension Wire.
- 7. TENSION WIRE
- A. METALLIC COATED STEEL MARCELLED TENSION WIRE: 7 GAUGE (0.177 IN.) (4.50 MM) MARCELLED WIRE COMPLYING WITH ASTM A824 MATCH COATING TYPE TO THAT OF THE CHAIN LINK FABRIC: TYPE II ZINC-COATED, ASTM A817 CLASS 4 - 1.2 OZ/ FT^2 (366 G/ M^2)

8. FITTINGS

- A. TENSION AND BRACE BANDS: GALVANIZED PRESSED STEEL COMPLYING WITH ASTM F626, MINIMUM STEEL THICKNESS OF 12 GAUGE (0.105 IN.) (2.67 MM), MINIMUM WIDTH OF 3/4 IN. (19 MM) AND MINIMUM ZINC COATING OF 1.20 OZ/FT^2 (366 G/M²). SECURE BANDS WITH 5/16 IN. (7.94 MM) GALVANIZED STEEL CARRIAGE BOLTS.
- B. TERMINAL POST CAPS, LINE POST LOOP TOPS, RAIL AND BRACE ENDS, BOULEVARD CLAMPS, RAIL SLEEVES: IN COMPLIANCE TO ASTM F626, PRESSED STEEL GALVANIZED AFTER FABRICATION HAVING A MINIMUM ZINC COATING OF 1.20 OZ/FT^2 (366 G/M^2).
- C. TRUSS ROD ASSEMBLY: IN COMPLIANCE WITH ASTM F626, 3/8 IN. (9.53 MM) DIAMETER STEEL TRUSS ROD WITH A PRESSED STEEL TIGHTENER, MINIMUM ZINC COATING OF 1.2 OZ/FT2 (366 G/M2), ASSEMBLY CAPABLE OF WITHSTANDING A TENSION OF 2,000 LBS. (970 KG).
- D. TENSION BARS: IN COMPLIANCE WITH ASTM F626. GALVANIZED STEEL ONE-PIECE LENGTH 2 IN. (50 MM) LESS THAN THE FABRIC HEIGHT. MINIMUM ZINC COATING 1.2 OZ. $/FT^2$ (366 G/M²). BARS FOR 2 IN. (50 MM) MESH SHALL HAVE A MINIMUM CROSS SECTION OF 3/16 IN. (4.8 MM) BY 3/4 IN. (19 MM)
- 9. TIE WIRE AND HOG RINGS
- A. TIE WIRE AND HOG RINGS: GALVANIZED MINIMUM ZINC COATING, 11 GA. STEEL TIE WIRE & 11 GA. STEEL TIE WIRE SPACED AT 15" O.C. FOR LINE POSTS & 24" O.C. FOR RAILS.

10. SWING GATES

- A. SWING GATES: GALVANIZED STEEL WELDED FABRICATION IN COMPLIANCE WITH ASTM F900. GATE FRAME MEMBERS 4.00 IN. OD ASTM F1083 SS40 OR AP40 GALVANIZED STEEL PIPE POSTS AND 1.875" O.D. AP-20 FRAMEWORK. FRAME MEMBERS SPACED NO GREATER THAN 8 FT. (2440 MM) APART VERTICALLY AND HORIZONTALLY. WELDED JOINTS PROTECTED BY APPLYING ZINC-RICH PAINT IN ACCORDANCE WITH ASTM PRACTICE A780. POSITIVE LOCKING GATE LATCH, PRESSED STEEL GALVANIZED AFTER FABRICATION. GALVANIZED MALLEABLE IRON OR HEAVY GAUGE PRESSED STEEL POST AND FRAME HINGES. MATCH GATE FABRIC TO THAT OF THE FENCE SYSTEM GATEPOSTS, ASTM F1083 SCHEDULE 40 OR AP40 GALVANIZED STEEL PIPE.
- B. GATEPOSTS: PIPE IN COMPLIANCE WITH ASTM F1083/A53 Gr. B OR AP40 PIPE.
- 11. POSTS: POSTS SHALL BE SET PLUMB IN CONCRETE FOOTINGS IN ACCORDANCE WITH ASTM F567. TOP OF CONCRETE FOOTING TO BE AT GRADE CROWNED TO SHED WATER AWAY FROM THE POST.

- 12. TOP RAIL: WHEN SPECIFIED, INSTALL 21 FT. (6.4 M) LENGTHS OF RAIL CONTINUOUS THRU THE LINE POST OR BARB ARM LOOP TOP. SPLICE RAIL USING TOP RAIL SLEEVES MINIMUM 6 IN. (152 MM) LONG. RAIL SHALL BE SECURED TO THE TERMINAL POST BY A BRACE BAND AND RAIL END. BOTTOM RAIL OR INTERMEDIATE RAIL SHALL BE FIELD CUT AND SECURED TO THE LINE POSTS USING BOULEVARD CLAMPS OR BRACE BAND WITH RAIL END.
- 13. TERMINAL POSTS: END. CORNER. PULL AND GATE POSTS SHALL BE BRACED AND TRUSSED FOR FENCE 6 FT. (1.8 M) AND HIGHER. THE HORIZONTAL BRACE RAIL AND DIAGONAL TRUSS ROD SHALL BE INSTALLED IN ACCORDANCE WITH ASTM F567.
- 14. TENSION WIRE: SHALL BE INSTALLED 4 IN. (101.6 MM) UP FROM THE BOTTOM OF THE FABRIC. FENCES WITHOUT TOP RAIL SHALL HAVE A TENSION WIRE INSTALLED 4 IN. (101.6 MM) DOWN FROM THE TOP OF THE FABRIC. TENSION WIRE TO BE STRETCHED TAUT, INDEPENDENTLY AND PRIOR TO THE FABRIC, BETWEEN THE TERMINAL POSTS AND SECURED TO THE TERMINAL POST USING A BRACE BAND. SECURE THE TENSION WIRE TO EACH LINE POST WITH A TIE
- 15. SWING GATES: INSTALLATION OF SWING GATES AND GATEPOSTS IN COMPLIANCE WITH ASTM F 567. DIRECTION OF SWING SHALL BE OUTWARD. GATES SHALL BE PLUMB IN THE CLOSED POSITION HAVING A BOTTOM CLEARANCE OF 3 IN. (76 MM) GRADE PERMITTING. HINGE AND LATCH OFFSET OPENING SPACE SHALL BE NO GREATER THAN 3 IN. (76 MM) IN THE CLOSED POSITION. GATE LEAF HOLDBACKS SHALL BE INSTALLED FOR ALL DOUBLE GATES.
- 16. BOLTS: CARRIAGE BOLTS USED FOR FITTINGS SHALL BE INSTALLED WITH THE HEAD ON THE SECURE SIDE OF THE FENCE. ALL BOLTS SHALL BE PEENED OVER TO PREVENT REMOVAL OF THE NUT.

PROJECT DEVELOPER



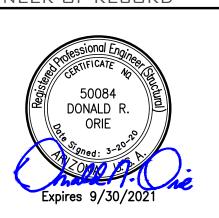
2180 South 1300 East Suite 600 Salt Lake City, UT 84106

ELECTRICAL ENGINEERS AND INSTALLERS



1730 South Anaheim Way Anaheim, CA 92805

657.276.0600 | fax 657.276.0781 ENGINEER OF RECORD





CONDITIONAL USE PERMIT:

EAST LINE SOLAR

ARRAY FIELD ADDRESS: 1665 E. SELMA HWY, CASA

GRANDE, AZ 85194, USA

PROJECT No.:

EAST LINE PHASE 1

REVISION		
MARK	DATE	DESCRIPTION
	04/15/2020	100% IFP SUBMITTAL

DRAWN BY: ENG DEPT CHECKED BY: SCALE:

DATE: DATE:

REI DISCLAIMER

Rosendin Electric, Inc's Professional Liability Insurance Coverage requires all work designed by the engineering group to be performed by Rosendin Electric, Inc. Design concepts and work product are the intellectual property of Rosendin Electric, Inc. an are not to be reproduced or distributed to solicit bids or proposal from other engineering or contracting firms. If the contract stipulates that the design product is the property of the Owner, i must be stamped and signed by a Professional Engineer who is no affiliated with Rosendin Electric, Inc.

SHEET TITLE

FENCING DETAILS

SHEET NUMBER

6 NOTE: IF DWG. IS NOT 24"x36", IT IS NOT FULL SIZE

S-3.5

ROUND STEEL PIPE FENCE FRAMEWORK

FENCE NOTES S-3.5 Scale: N.T.S.