

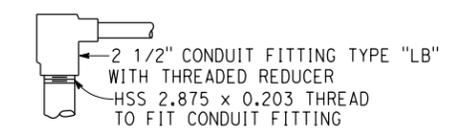
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
DDDD	CCCC	RRRR	PPPP	????	####

REGISTERED CIVIL ENGINEER	X	DATE	
MM/DD/YYYY			
PLANS APPROVAL DATE			

REGISTERED PROFESSIONAL ENGINEER
No. X
Exp. X
CIVIL
STATE OF CALIFORNIA

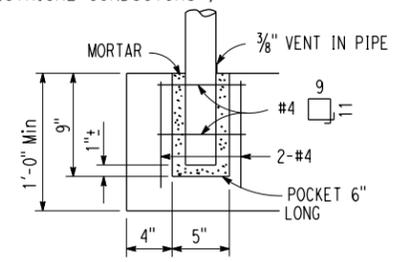
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.



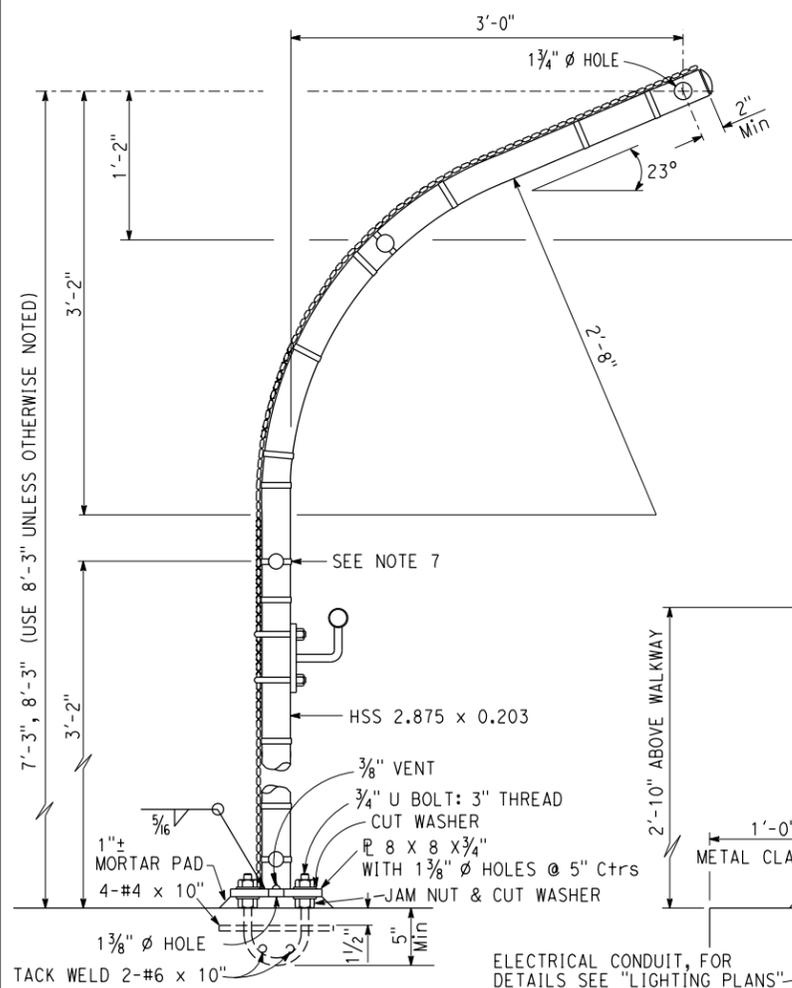
END POST

1 1/2" = 1'-0"
(WITH ELECTRICAL CONDUCTORS)



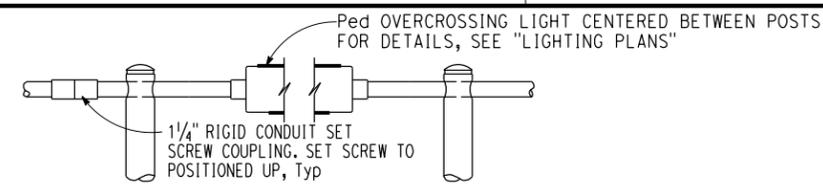
ALTERNATIVE ANCHORAGE DETAIL

1 1/2" = 1'-0"
MAY BE USED WHEN THICKNESS OF CONCRETE IS 1'-0" OR MORE
NOT TO BE USED WHEN POST CONTAINS ELECTRICAL CONDUIT



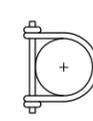
TYPICAL POST DETAIL

1 1/2" = 1'-0"



INTERMEDIATE POSTS

1 1/2" = 1'-0"



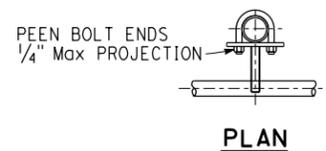
PLAN



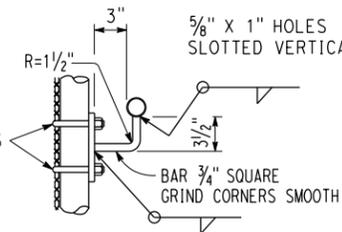
ELEVATION

DETAIL "H"

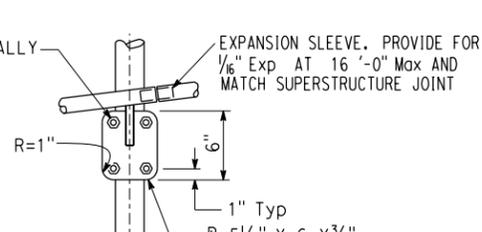
1 1/2" = 1'-0"



PLAN



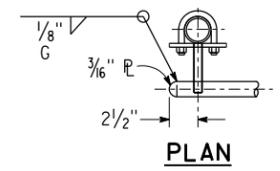
SIDE VIEW



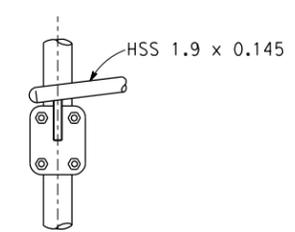
ELEVATION

PIPE HANDRAILING BRACKET

1 1/2" = 1'-0"



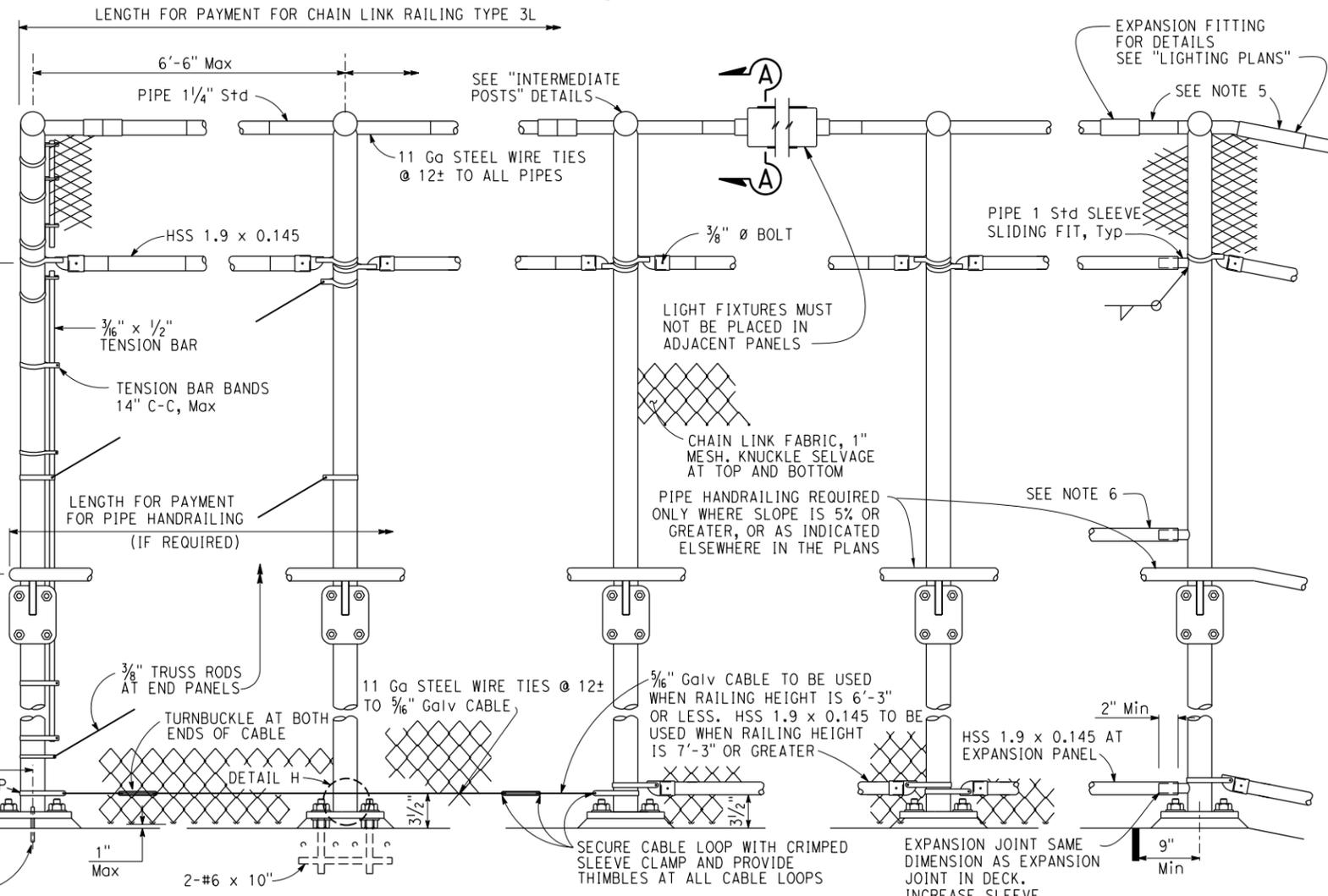
PLAN



ELEVATION

PIPE HANDRAILING AT END

1 1/2" = 1'-0"



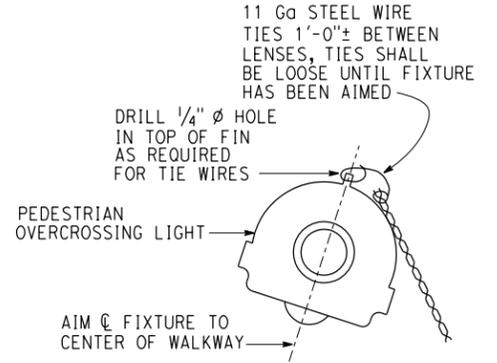
END POST

INTERMEDIATE POST

ELEVATION

1 1/2" = 1'-0"

EXPANSION JOINT



SECTION A-A

DETAIL TO BE REPLACED WITH THE UPDATED DETAIL WHEN AVAILABLE
NO SCALE

**GENERAL NOTES
LOAD AND RESISTANCE
FACTOR DESIGN**

DESIGN:
AASHTO LRFD Bridge Design Specifications,
8th Edition 2017 with California
Amendments April 2019

CONCRETE:
f_y = 60ksi f'_c = 3.6 ksi

STRUCTURAL STEEL:
HSS: f_y = 50 ksi

- NOTES:
- Railing must conform to horizontal and vertical alignment. Posts must be vertical. Horizontal pipes shall be bent if radius is 150'-0" or less. May be an 6'-0" chords if radius is over 150'-0".
 - Peen all 3/8" diameter bolts.
 - When railing is on slope, fabric must be parallel to slope.
 - Alternative details may be submitted by Contractor for Engineer's approval.
 - All pipe carrying electrical conductors must be replaced by rigid steel conduit.
 - Additional HSS 1.9 x 0.145 required on radius less than 150'-0".
 - Design valid for bridges with the top of chain link railing type 3L equal to or less than 100' height above surrounding ground surfaces.
 - Details for RAILING TYPE 3 & 3L are similar except TYPE 3 does not have light fixtures.

BRIDGE STANDARD DETAILS		
xs16-165 FILE NO.	July 2020 APPROVAL DATE	The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES
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BRIDGE No.	
POST MILE	
CHAIN LINK RAILING TYPE 3L	