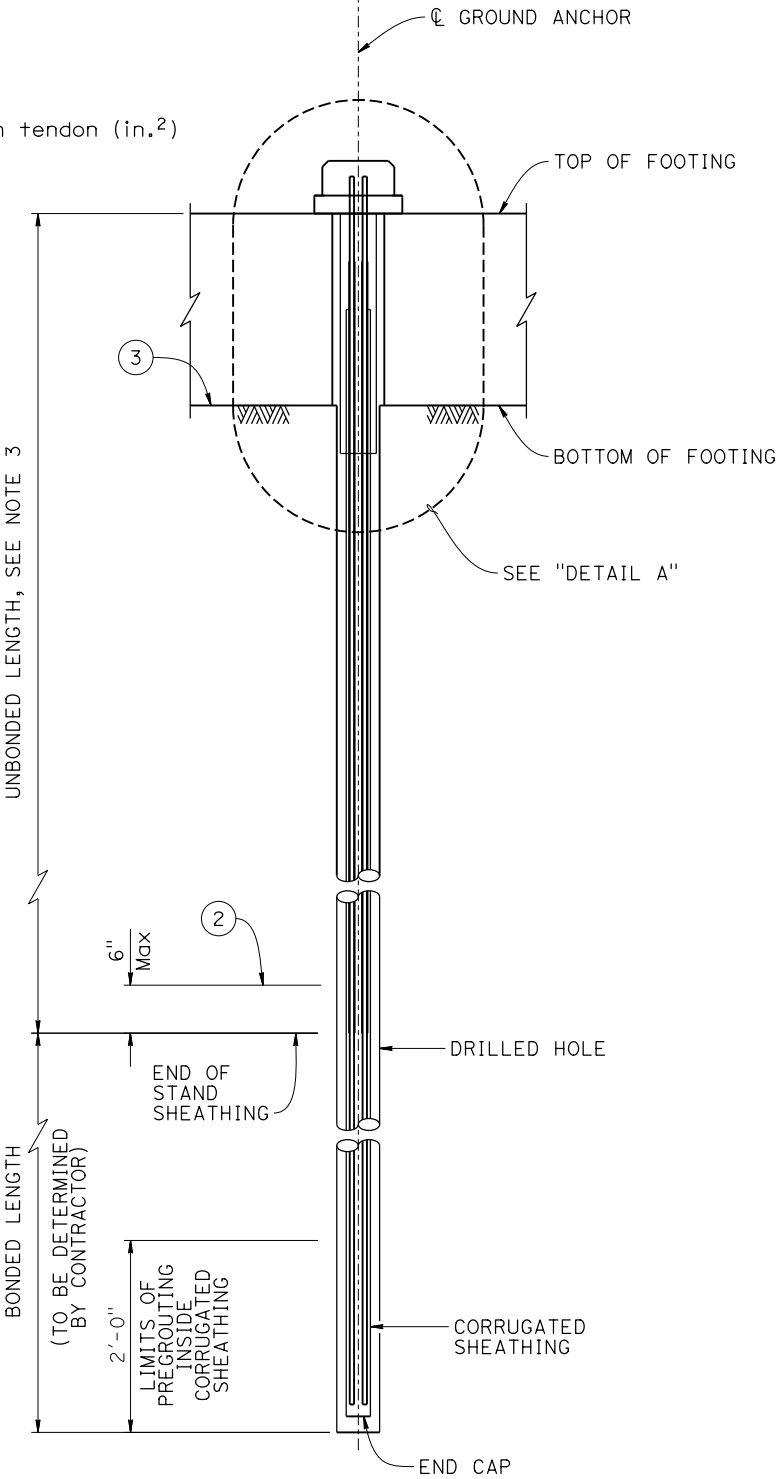


GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

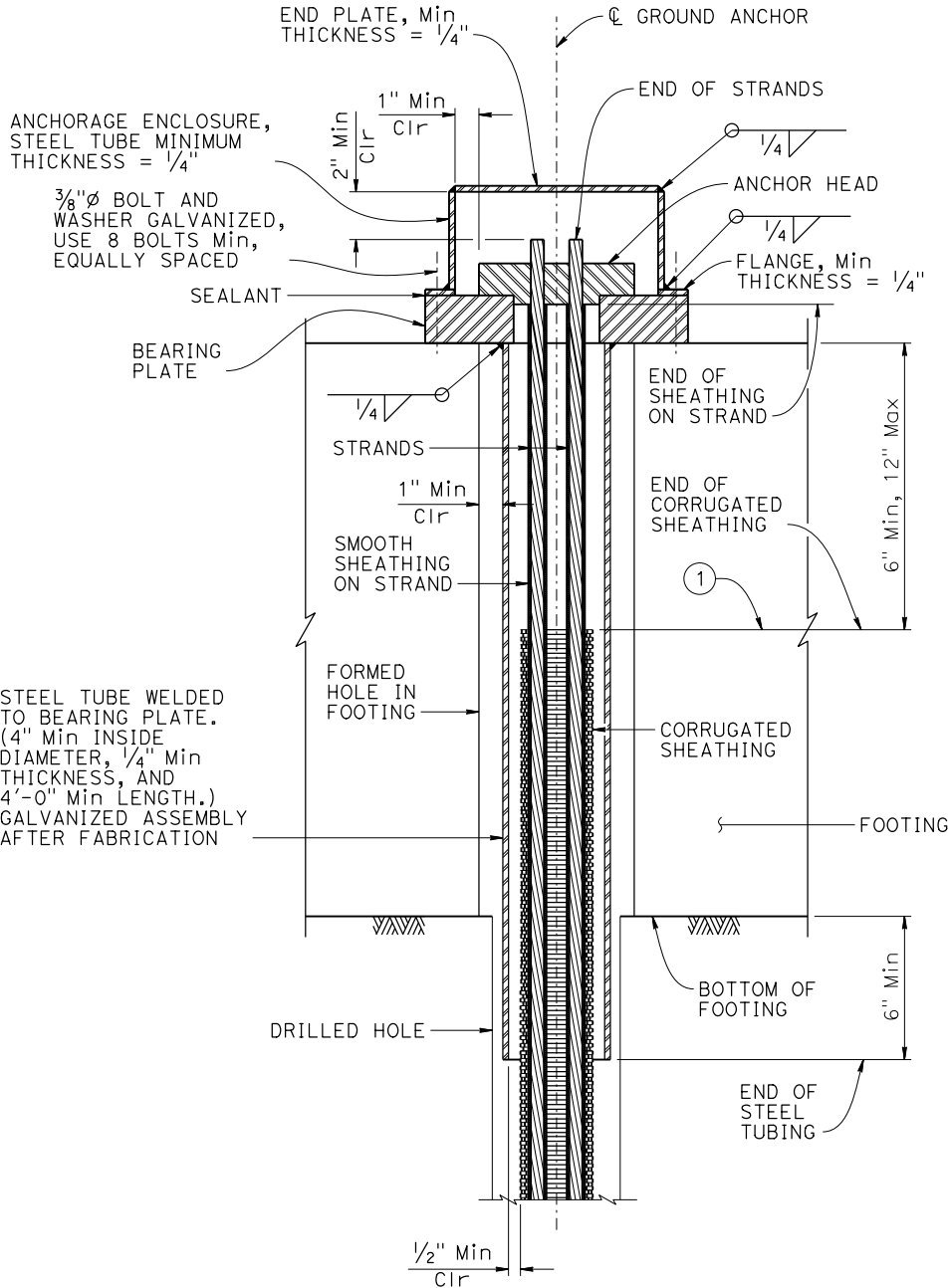
DESIGN:
AASHTO LRFD Bridge Design Specifications,
2017 edition with California Amendments
updated June 2024

PRESTRESSING STEEL (GROUND ANCHORS):
STRANDS - $f_{pu} = 270$ ksi
 P_{TL} = Test load per tendon (kips)
 f_{pu} = Minimum tensile strength of prestressing steel (ksi)
 A_s = Minimum cross sectional area of prestressing steel in tendon (in.²)
 A_s (Min) = $\frac{1.0 P_{TL}}{0.75 f_{pu}}$ (Strand)

- NOTES:
1. Anchorage enclosure shall have provisions to allow injecting grout at low end and venting at high end. Galvanize enclosure after fabrication.
 2. Alternate anchor enclosure shown on "VERTICAL GROUND ANCHOR DETAILS No. 2" sheet.
 3. For A_s , P_{TL} and unbonded tendon length, see Project Plans elsewhere.
- ① Level of initial grouting inside corrugated sheathing
② Level of initial grouting in drilled hole
③ Level of secondary grouting in drilled hole



GROUND ANCHOR TENDON DETAILS (STRANDS)



DETAIL A

NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			X	DATE	
PLANS APPROVAL DATE					
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.					

REGISTERED PROFESSIONAL ENGINEER

CIVIL

STATE OF CALIFORNIA

BRIDGE STANDARD DETAILS		DESIGN	BY X	CHECKED X	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	X			
xs12-030-1 FILE No.	October 2025 APPROVAL DATE	DETAILS	BY X	CHECKED X			XX-XXXX				
		QUANTITIES	BY X	CHECKED X			POST MILE X.X				
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html						UNIT: XXXX PROJECT NUMBER & PHASE: XXXXXXXXXX1	COUNTY/ROUTE/ZONE: XXX/XXX/X CONTRACT No.: XX-XXXXX4	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 1	OF 2