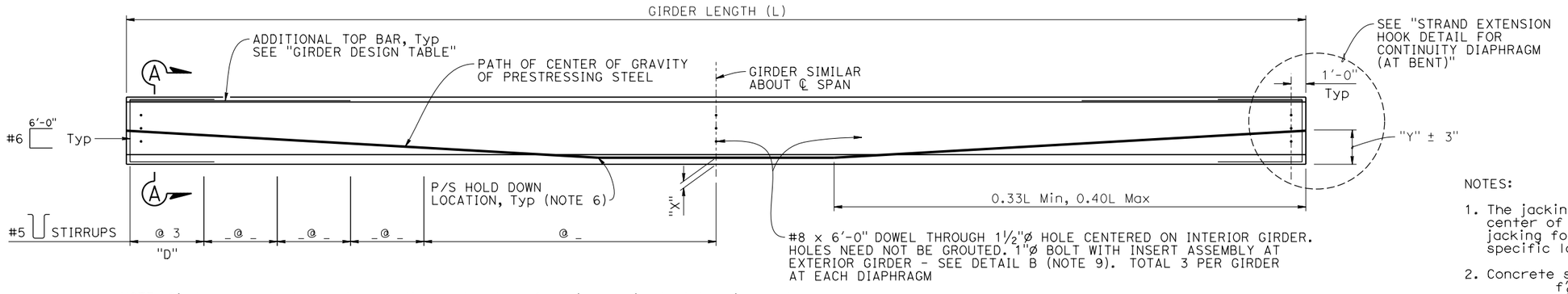
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER — X — DATE

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.



NOTE: Girder ends to be cast such that a level surface is provided at bearing pads.

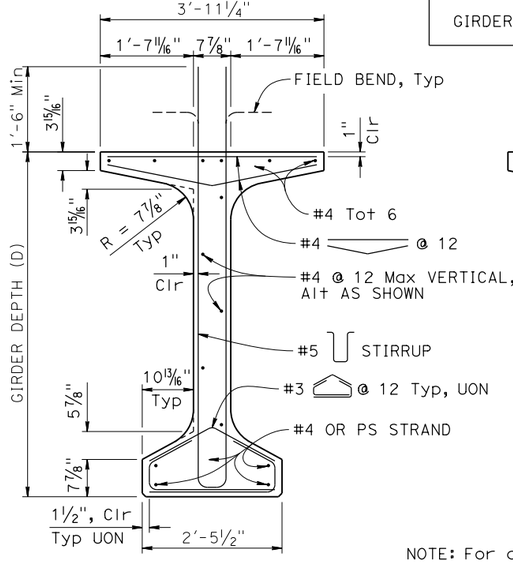
ELEVATION

GIRDER DESIGN TABLE

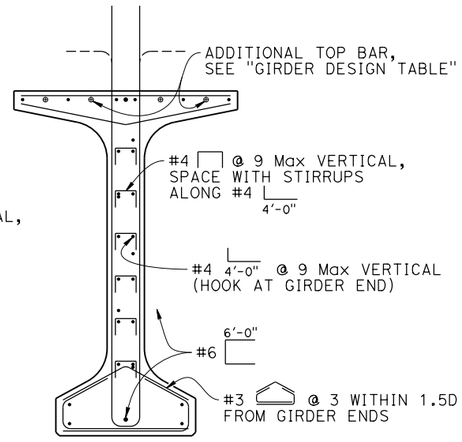
LOCATION	GIRDER LENGTH (L)	GIRDER DEPTH (D)	"X" (in.)	JACKING FORCE (P) (kip)	A_s, Min ($in.^2$)	"Y" (in)	CONCRETE STRENGTH (ksi)		MIDSPAN DEAD LOAD DEFLECTION (ft)		ADDITIONAL TOP BAR (EACH END)	TOTAL NUMBER OF STRAND EXTENDED
							f'_{ci}	f'_c	DECK	RAIL		
GIRDER A			4								#_x_Tot_	
			6									
GIRDER B			4									
			6									
GIRDER C			4									
			6									
GIRDER *			4									
			6									

NOTES:

1. The jacking force (P) is the force required at the center of the span before all design losses. The jacking force does not include any fabrication specific losses.
2. Concrete strength:
   f'_{ci} is at time of initial stressing
   f'_c is the 28-day compression strength
3. Deflection components will be used to set screed line elevations.
4. Screed line elevations for deck concrete will be determined by the Engineer.
5. Contractor may interpolate "JACKING FORCE" and "X" values between the limits shown, as authorized by the Engineer.
6. There shall be a minimum of two hold downs per girder for the prestressing.
7. Prestressing strand shall be 270 ksi low relaxation.
8. A_s, Min is the minimum area required of prestressing steel.
9. For "DETAIL B" and "WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE", see "PC/PRETENTIONED BULB-TEE GIRDER (MISC DETAILS) sheet.

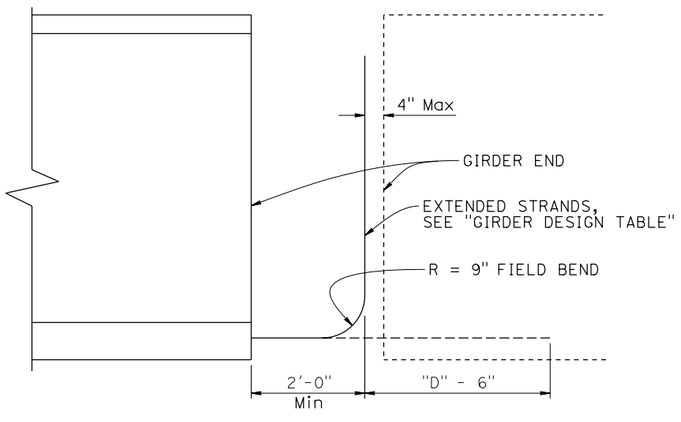


TYPICAL SECTION



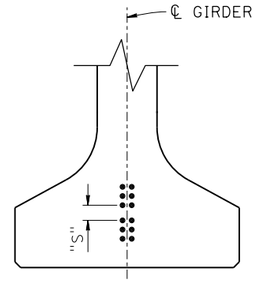
SECTION A-A

NOTE: For details not shown, see "TYPICAL SECTION".



STRAND EXTENSION HOOK DETAIL FOR CONTINUITY DIAPHRAGM (AT BENT)

NO SCALE



CLEARANCES FOR PRETENSIONED STRANDS

STRAND CLEARANCES NOTES:

1. Strands may be bundled in groups consisting of 3 vertically and 2 horizontally at midspan and separated at the ends.
2. The minimum distance "S" between groups or individual strands is 2" for 0.6"Ø strand.
3. "S" is measured between centers of adjacent strands.
4. Authorization of Engineer is required for deviation.

BRIDGE STANDARD DETAILS		DESIGN	BY X	CHECKED X	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No. XX-XXXX	X
xs1-121-2 FILE No.	October 2025 APPROVAL DATE	DETAILS	BY X	CHECKED X			POST MILE X.X	PC/PRETENSIONED BULB-TEE GIRDER (HARPED STRANDS)
		QUANTITIES	BY X	CHECKED X				

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html

DATE PLOTTED => 29-SEP-2025 TIME PLOTTED => 14:42 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3
FILE => xs1-121-2.dgn USERNAME => s155182

UNIT: XXXX COUNTY/ROUTE/ZONE: XXX/XXX/X
PROJECT NUMBER & PHASE: XXXXXXXXXX1 CONTRACT No.: XX-XXXX4

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
				2	3