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

REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Dallas Forester
No. C37765
Exp. 12-31-12
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.

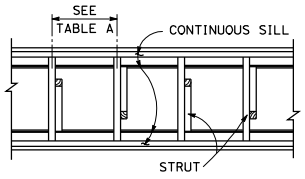
TABLE B

TIMBER STRUTS FOR STRUCTURAL STEEL PLATE VEHICULAR UNDERCROSSING		
SPAN	STRUT SIZE	SILL SIZE
13'-2" - 15'-6"	4" x 4"	4" x 6"
15'-9" - 17'-3"	4" x 4"	4" x 8"
Over 17'-3"	6" x 6"	6" x 8"

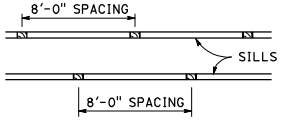
Tabular data in Table B based on 6" x 2" corrugations, (Structural steel plate).

TABLE A

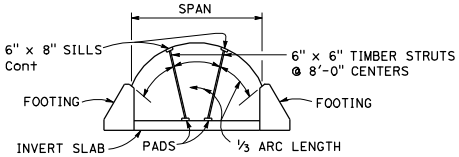
TIMBER STRUTS FOR STRUCTURAL STEEL PLATE PIPE			
PIPE Dia	STRUT SIZE	HEIGHT OF FILL	
		0 TO 20'-0"	GREATER THAN 20'-0"
240" THRU 252"	8" x 8"	5'-0" SPACING	3'-0" SPACING
	10" x 10"	8'-0" SPACING	4'-6" SPACING



SECTION A-A



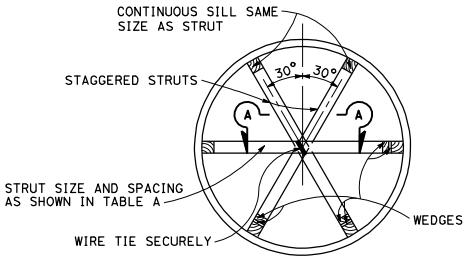
SECTION B-B



TYPICAL SECTION

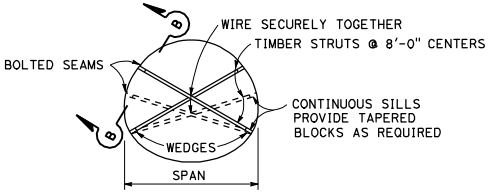
STRUCTURAL STEEL PLATE ARCHES

Struts required when span of structural steel plate arch exceeds 18'-0" Pad size as directed by Engineer.



TYPICAL SECTION

STRUCTURAL STEEL PLATE PIPES



TYPICAL SECTION

STRUCTURAL STEEL PLATE VEHICULAR UNDERCROSSING

NOTES:

1. Struts shown are minimum required during construction when construction vehicle loading exceeds 32 kip/axle, and minimun cover is less than that shown for metal culverts in the table on Standard Plan D88.
2. Backfill shall be brought up uniformly on both sides of the structure.
3. For minimum cover over structure for construction loads, see Standard Plan D88.
4. Strut all situations where overfill is removed in an unbalanced manner.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STRUT DETAILS FOR STRUCTURAL STEEL PIPES, ARCHES AND VEHICULAR UNDERCROSSING

NO SCALE

D88A

2010 STANDARD PLAN D88A

5-6-09