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

REGISTERED CIVIL ENGINEER

May 20, 2011

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Stanley P. Johnson No. C57793 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

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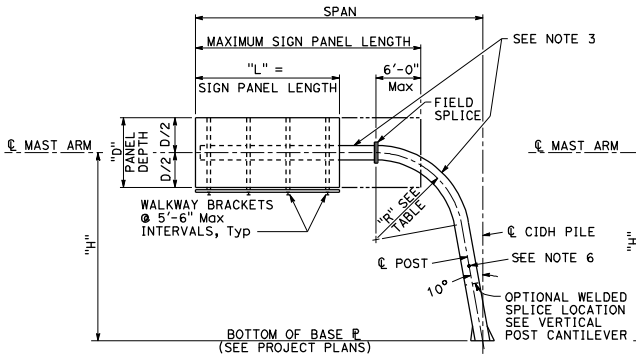
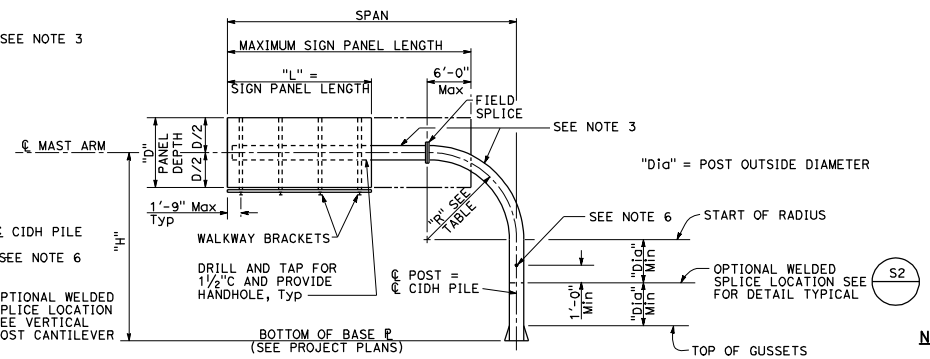


SLANTED POST CANTILEVER



VERTICAL POST CANTILEVER

"D" PANEL DEPTH	"H" POST HEIGHT	POST TYPE No. FOR SPANS OF CANTILEVER (SEE NOTE 8)																			
		38'-0" SPAN Col #	37'-0" SPAN Col #	36'-0" SPAN Col #	35'-0" SPAN Col #	34'-0" SPAN Col #	33'-0" SPAN Col #	32'-0" SPAN Col #	31'-0" SPAN Col #	30'-0" SPAN Col #	29'-0" SPAN Col #	28'-0" SPAN Col #	27'-0" SPAN Col #	26'-0" SPAN Col #	25'-0" SPAN Col #	24'-0" SPAN Col #	23'-0" SPAN Col #	22'-0" SPAN Col #	21'-0" SPAN Col #	20'-0" SPAN Col #
120"	29'-0"	6	5	5	5	5	5	5	5	4	4	4	4	4	3	3	3	3	2	2
	27'-0"	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	2	2	2
	25'-0"	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2
	23'-0"	5	5	5	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2
	21'-0"	5	5	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2
110"	29'-0"	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	2	2	2
	27'-0"	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2
	25'-0"	5	5	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2
	23'-0"	5	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2
	21'-0"	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1
100"	29'-0"	5	5	5	5	5	4	4	4	4	4	3	3	3	3	2	2	2	2	2
	27'-0"	5	5	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2
	25'-0"	4	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2
	23'-0"	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1
	21'-0"	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1
90"	29'-0"	5	5	5	5	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2
	27'-0"	4	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2
	25'-0"	4	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1
	23'-0"	4	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1
	21'-0"	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1
80"	29'-0"	4	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	1
	27'-0"	4	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	1	1
	25'-0"	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	1	1	1
	23'-0"	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1
	21'-0"	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1
70"	29'-0"	4	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	2	1	1
	27'-0"	4	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1
	25'-0"	4	4	4	4	3	3	3	3	3	2	2	2	2	2	2	1	1	1	1
	23'-0"	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1
	21'-0"	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1
60"	29'-0"	4	4	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1
	27'-0"	4	4	4	4	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1
	25'-0"	4	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1
	23'-0"	4	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1
	21'-0"	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1
50"	29'-0"	4	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1
	27'-0"	4	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1
	25'-0"	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1
	23'-0"	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
	21'-0"	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1

NOTES:

1. The maximum sign panel overlap onto the post elbow shall not exceed 6'-0" from the field splice.
2. When several sign panels are to be installed with a space between the panels, the space shall be as small as possible and 2'-0" maximum.
3. All posts between base plate and field splice shall be as scheduled in table. All mast arms are standard pipe.
4. During sign erection the post shall be raked as necessary with the use of leveling nuts to level the sign panel.
5. At final position of post all top and bottom anchor bolt nuts shall be snug tighten against base plate.
6. Drill and tap for 1½"C chase nipple and plug with recessed pipe plugs. Place perpendicular to sign panel axis and away from approaching traffic. See Standard Plan ES-15C.
7. NPS - Nominal Pipe Size.
8. Post type # in Roman or Numerical implies the same specification of pipe post.

POST TYPE No.	PIPE		"R" RADIUS
	NPS	THICKNESS	
I	20	½"	12'-0"
II	24	½"	↓
III	24	⅝"	↓
IV	30	½"	↓
V	30	⅝"	↓
VI	30	¾"	↓

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGNS-TUBULAR SINGLE POST TYPE LAYOUT AND PIPE SELECTION

NO SCALE

S31

2010 STANDARD PLAN S31

6-30-10