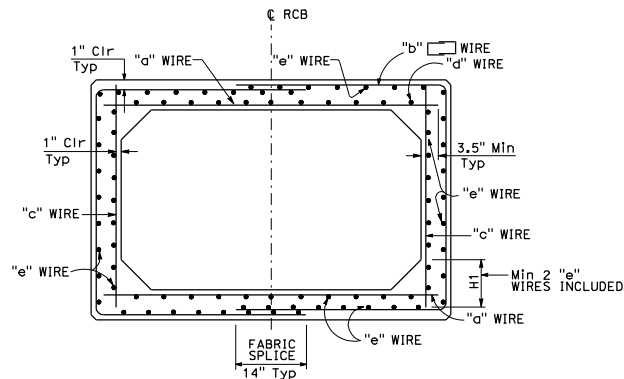
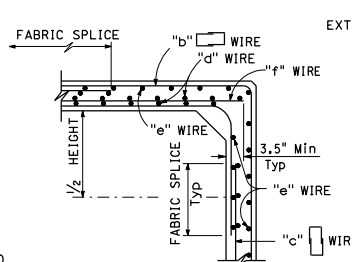
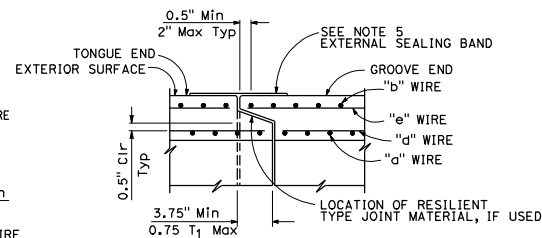
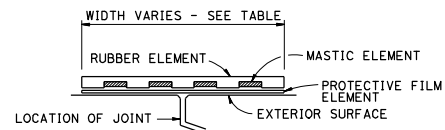




TYPICAL SECTION - SPANS 4'-0" THRU 12'-0"

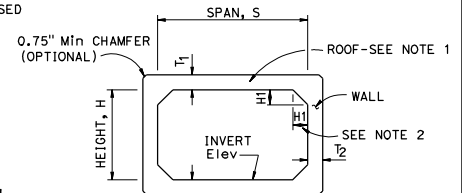
ALTERNATIVE
DETAILING OPTION

END JOINT DETAIL



EXTERNAL SEALING BAND SCHEMATIC

DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL
			TOTAL PROJECT	NO. SHEETS
REGISTERED CIVIL ENGINEER May 20, 2011 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.				
DALLIN FORESTER No. C37865 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA				



SCHEMATIC

TABLE	
SPAN	EXTERNAL SEALING BAND WIDTH
4'-6'	9"
7'-8'	11"
10'-12'	13"

SPAN, S		4'				5'				6'				7'			
HEIGHT, H		2'	3'	4'		2'	3'	4'	5'	2'	3'	4'	5'	2'	3'	4'	5'
MAXIMUM EARTH COVER		10'	20'	10'	20'	10'	20'	10'	20'	10'	20'	10'	20'	10'	20'	10'	20'
CONCRETE (INCH)	ROOF	T ₁	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	6"	6"	6"	6"	6"	6"	6"	6"
	SIDE WALL	T ₂	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	6"	6"	6"	6"	6"	6"	6"	6"
	INVERT	T ₃	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	6"	6"	6"	6"	6"	6"	6"	6"
MINIMUM WELDED WIRE FABRIC (Inch ² /ft ²)		"a"	.33	.47	.34	.49	.34	.50	.40	.62	.41	.62	.42	.64	.43	.64	.44
		"b"	.23	.28	.23	.25	.21	.23	.26	.36	.24	.36	.24	.33	.24	.30	.28
		"c"	.11	.11	.11	.12	.18	.24	.11	.11	.11	.11	.13	.23	.24	.34	.11
		"d"	.16	.11	.16	.11	.16	.11	.17	.11	.18	.11	.18	.11	.18	.11	.17
		"e"	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
* QUANTITY		Conc	.31	.34	.38	.37	.41	.44	.48	.51	.56	.60	.64	.63	.68	.73	.78
		Reinf	35	41	39	45	45	51	49	58	49	62	54	69	62	78	60
** SOIL PRESSURE (ksf)			2.3	4.4	2.4	4.5	2.4	4.5	3.1	4.4	3.1	4.5	3.1	4.5	3.2	4.5	2.7

SPAN, S		8'				10'				12'			
HEIGHT, H		4'	5'	6'	7'	8'	9'	10'		6'	7'	8'	9'
MAXIMUM EARTH COVER		10'	20'	10'	20'	10'	20'	10'	20'	10'	20'	10'	20'
CONCRETE (INCH)	ROOF	T ₁	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"
	SIDE WALL	T ₂	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"
	INVERT	T ₃	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"
MINIMUM WELDED WIRE FABRIC (Inch ² /ft ²)		"a"	.55	.87	.56	.90	.57	.92	.58	.93	.58	.94	.66
		"b"	.37	.59	.35	.55	.33	.52	.33	.52	.36	.57	.45
		"c"	.11	.11	.11	.11	.20	.31	.31	.42	.38	.62	.11
		"d"	.19	.11	.19	.11	.20	.11	.20	.11	.20	.11	.20
		"e"	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
* QUANTITY		Conc	.78	.83	.88	.94	.99	1.10	1.17	1.23	1.29	1.35	1.41
		Reinf	93	129	97	133	105	148	117	161	131	189	133
** SOIL PRESSURE (ksf)			2.5	4.6	2.5	4.6	2.5	4.6	3.8	4.6	3.8	4.7	3.8

* See Note 3

** See Note 6

NOTES:

- The inside and outside surfaces of the RCB roof shall be marked "TOP".
- H1 minimum shall equal the wall thickness. H1 maximum shall be 8" for spans through 8' and 14" for spans over 8'.
- Quantities are approximate and for design purposes only.
- For design and details not shown see Standard Plan D83B.
- For external sealing band applications see Standard Plan A62G.
- Soil pressure shown are factored per AASHTO LRFD and include soil weight of fill over box, self weight of box and live load where applicable.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATIONPRECAST REINFORCED
CONCRETE BOX CULVERT

NO SCALE

D83A