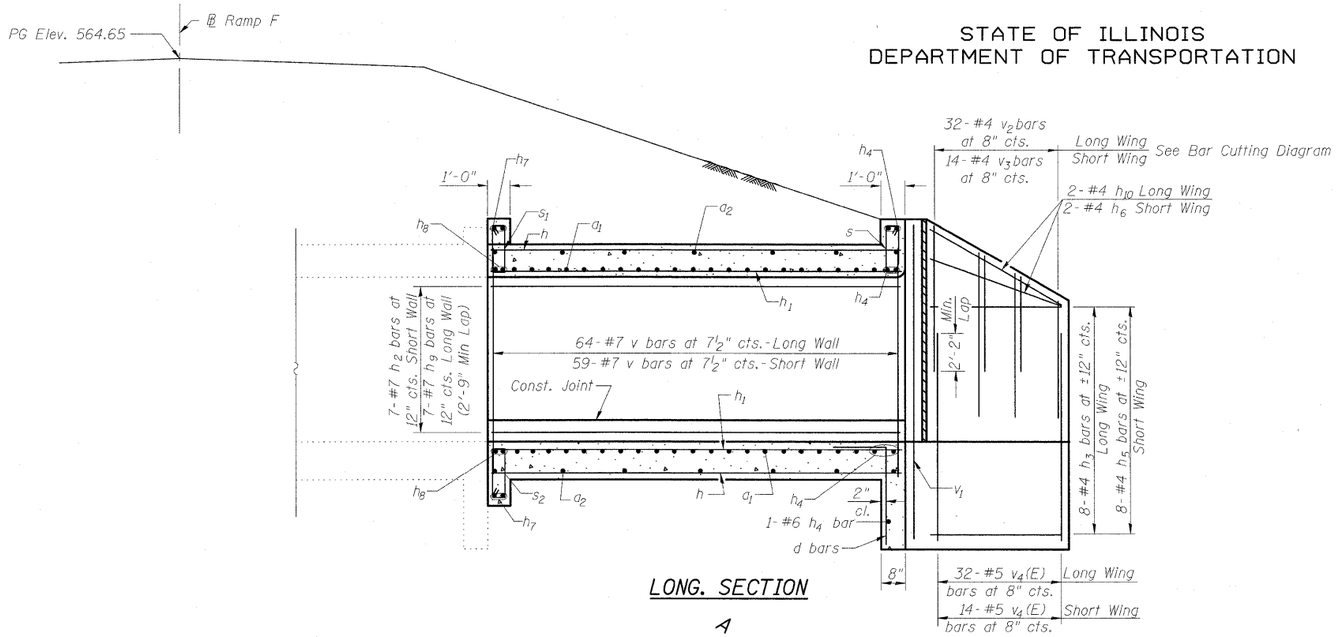
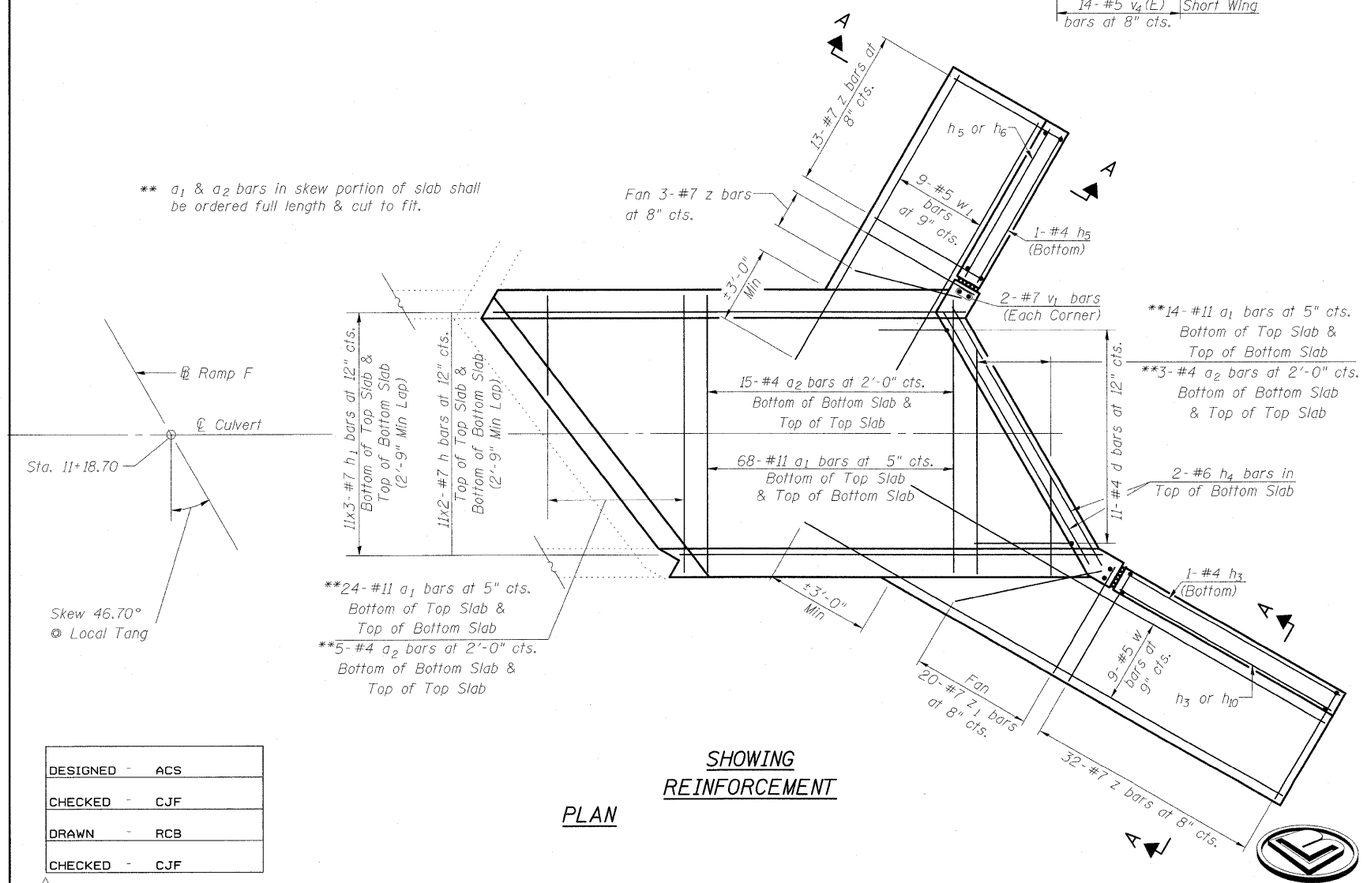
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

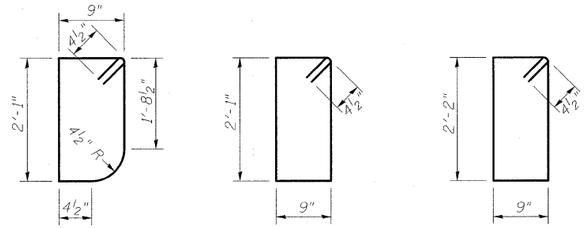


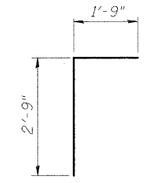
LONG. SECTION



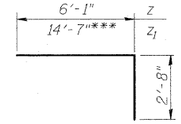
PLAN

SHOWING REINFORCEMENT



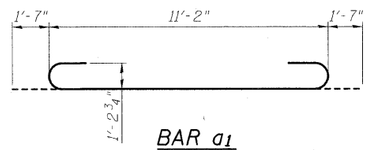


BAR d



BAR z & z1

*** Longest length required - 14'-7"
Field cut remaining bars to fit



BAR a1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	212	#11	14'-4"	
a_2	46	#4	11'-2"	
d	11	#4	4'-6"	
h	44	#7	21'-1"	
h_1	66	#7	15'-0"	
h_2	7	#7	36'-0"	
h_3	9	#4	20'-2"	
h_4	7	#6	12'-9"	
h_5	9	#4	7'-8"	
h_6	2	#4	8'-6"	
h_7	4	#6	14'-4"	
h_8	6	#8	14'-4"	
h_9	7	#7	39'-3"	
h_{10}	2	#4	20'-5"	
s	13	#4	6'-3"	
s_1	15	#4	6'-5"	
s_2	15	#4	6'-7"	
v	123	#7	8'-11"	
v_1	4	#7	11'-0"	
v_2	16	#4	11'-8"	
v_3	7	#4	11'-7"	
$v_4(E)$	46	#5	6'-0"	
w	9	#5	38'-5"	
w_1	9	#5	13'-4"	
z	48	#7	8'-9"	
z_1	20	#7	17'-3"	
Concrete Box Culverts		Cu. Yd.	80.5	
Reinforcement Bars, Epoxy Coated		Pound	290	
Reinforcement Bars		Pound	26920	
¾" Expansion Bolts		Each	24	
Concrete Removal		Cu. Yd.	7.2	
Removal & Disposal of Unsuitable Material		Cu. Yd.	54	
Rockfill-Replacement		Ton	114	

Notes:
Bars indicated thus 11 x 2-#7 etc. indicates 11 lines of bars with 2 lengths per line.
For Section A-A, see Sheet 1 of 3.
For Headwall and Edge Beam Reinforcement, see Sheet 1 of 3.

BOX CULVERT DETAILS
RT STA 11+18.70
RAMP F WB

DESIGNED -	ACS
CHECKED -	CJF
DRAWN -	RCB
CHECKED -	CJF

⚠ Revised Sheet 5/21/10 CJF

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
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Maryville, IL 62062-5635
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Fax 618-288-4666

SHEET NO. 2 OF 3 SHEETS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57/70	(25-3)R	EFFINGHAM	1416	454
			CONTRACT NO. 74296		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

156if PM 5/21/2010 ...\Culvert RT 11+18.70 sheet 4.dgn