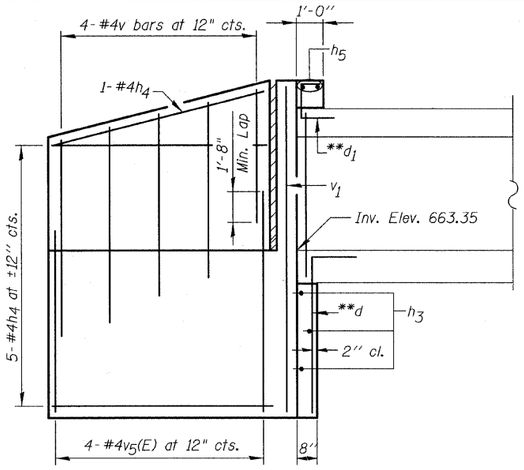
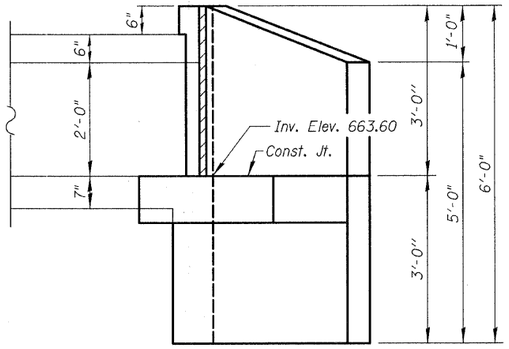
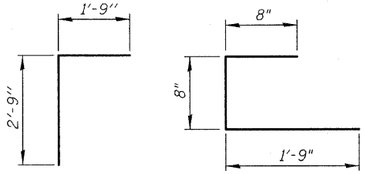


SHOWING REINFORCEMENT

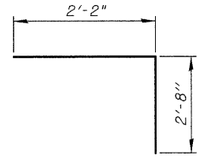
ELEVATION



SHOWING DIMENSIONS



**BAR d **BAR d_1



BAR z

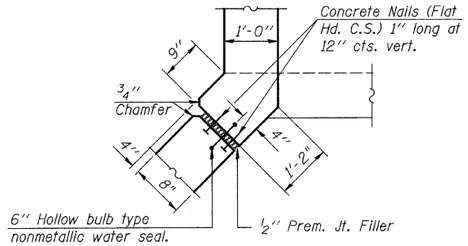
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_3	6	#6	9'-9"	—
h_4	28	#4	3'-5"	—
h_5	8	#6	4'-9"	—
v	16	#4	2'-8"	—
v_1	8	#4	5'-8"	—
v_5(E)	16	#4	4'-8"	—
w	12	#5	4'-7"	—
z	32	#4	4'-10"	⌐
Reinforcement Bars			Pound	430
Reinforcement Bars, Epoxy Coated			Pound	50
Concrete Box Culverts			Cu. Yd.	5.7

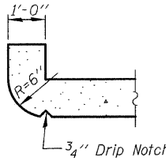
BILL OF MATERIAL (FOR REINFORCEMENT BARS CAST INTO PRECAST CULVERTS)

Bar	No.	Size	Length	Shape
**d	20	#4	4'-6"	⌐
**d1	20	#4	3'-1"	⌐
**w1	12	#5	6'-7"	—

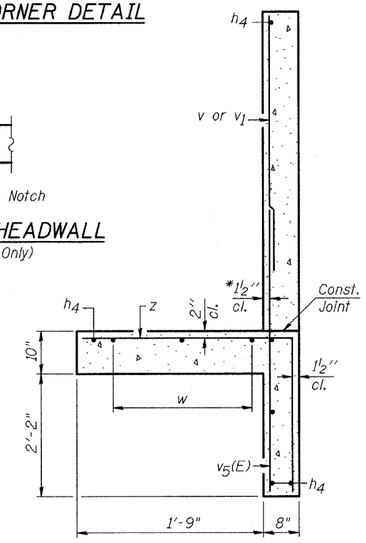
**Cast Reinforcement Bars into Precast Concrete Box Culvert as shown. Cost included with Precast Concrete Box Culverts 4'x2'



CORNER DETAIL

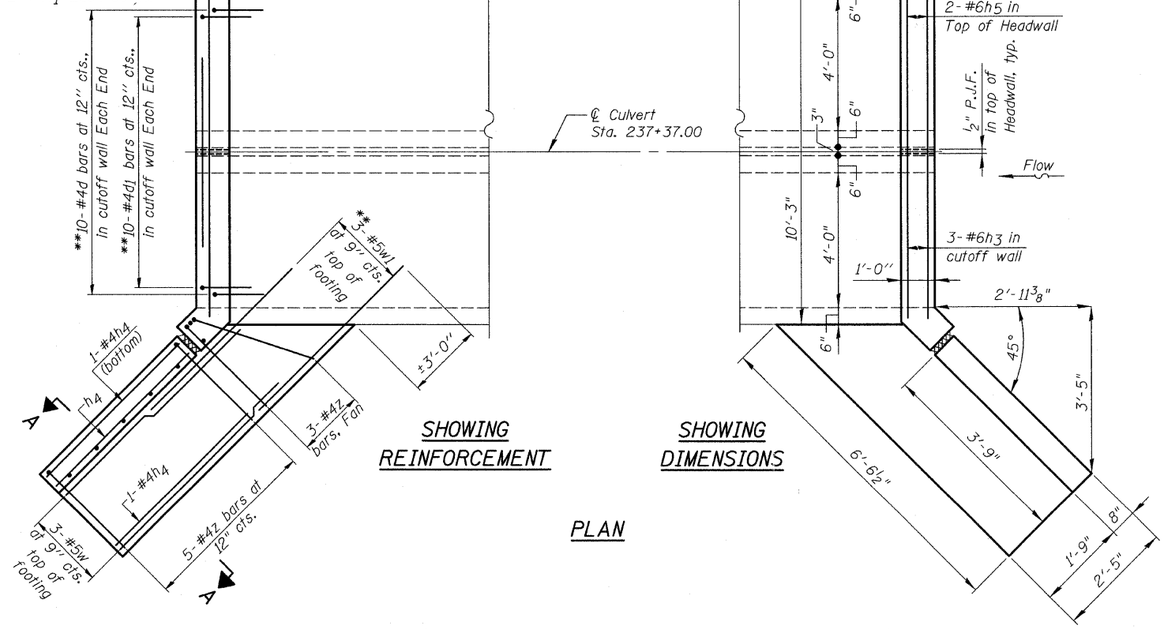


SECTION THRU HEADWALL
(Up Stream End Only)



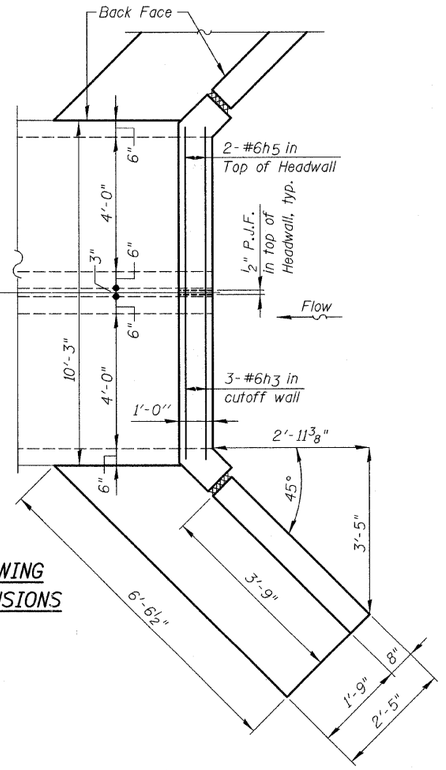
SECTION A-A
Maximum soil pressure under footing = 1,371 psf

*v_5(E) bars shall not be placed more than 1 1/2" cl. from back face of wingwall



SHOWING REINFORCEMENT

PLAN



SHOWING DIMENSIONS

CAST-IN-PLACE END SECTION DETAILS
STRUCTURE NO. 049-0242
OUTLET NO. 19

CHRISTIAN-ROGE & ASSOCIATES, INC.

FILE NAME = D1602953-03-end_sect_det.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REVISED -
		CHECKED - B.N.S.	REVISED -
	PLOT SCALE =	DRAWN - F.M.	REVISED -
	PLOT DATE =	CHECKED - B.N.S./J.C.N.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE END SECTION DETAILS
STRUCTURE NO. 049-0242
SHEET NO. SC6-3 OF SC6-4 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	128R-3	LAKE	518	378
		CONTRACT NO. 60953		
	ILLINOIS FED. AID PROJECT			