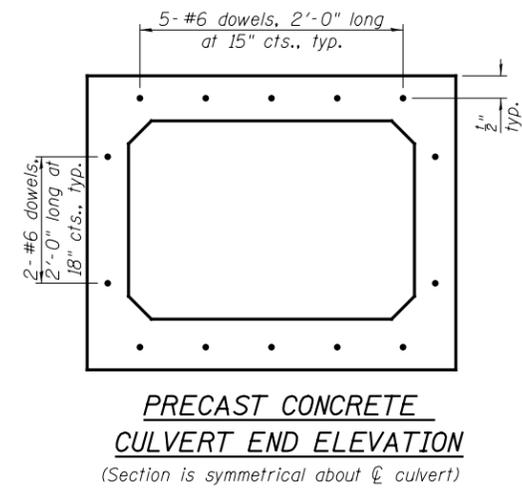
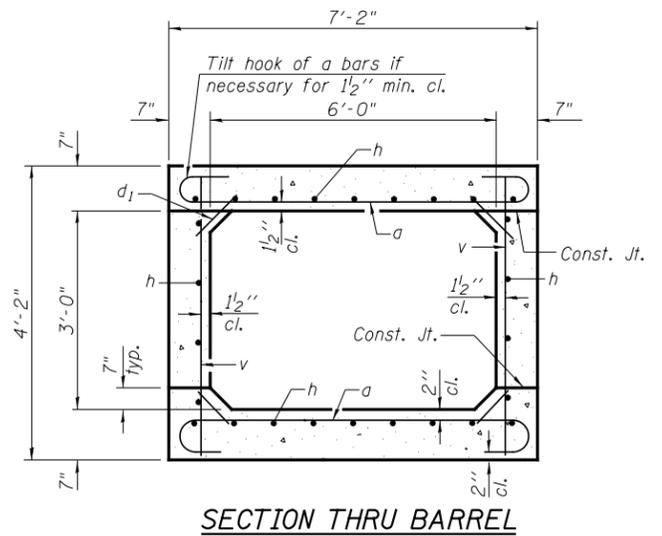


**END LONG. SECTION**

**END ELEVATION**

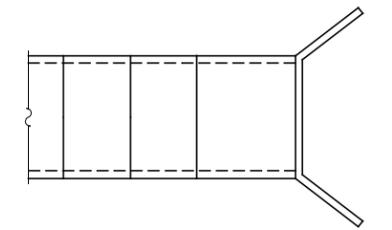


**PRECAST CONCRETE CULVERT END ELEVATION**  
(Section is symmetrical about  $\bar{C}$  culvert)

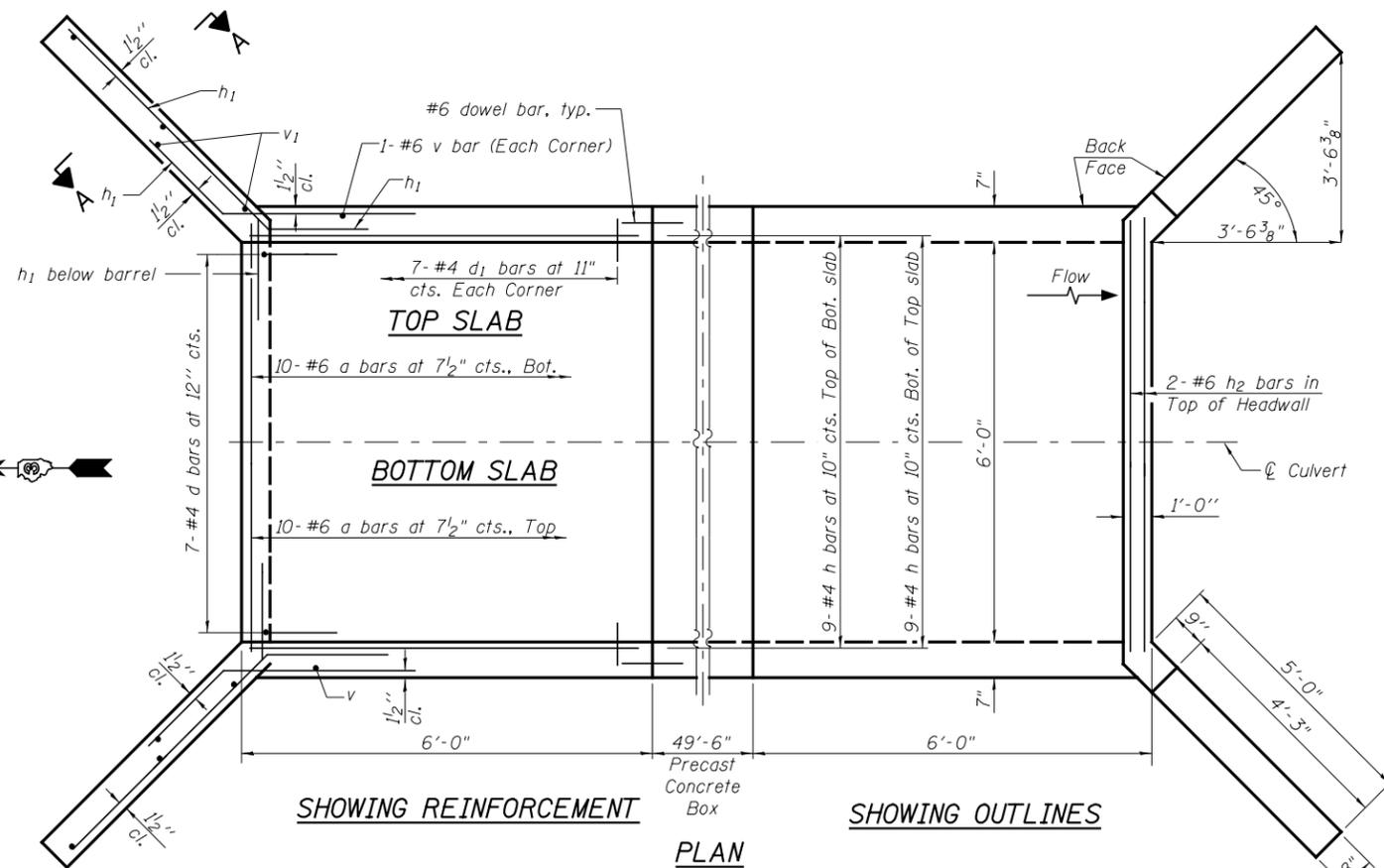


**SECTION THRU BARREL**

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



**ALIGNED PRECAST SECTIONS PLAN**



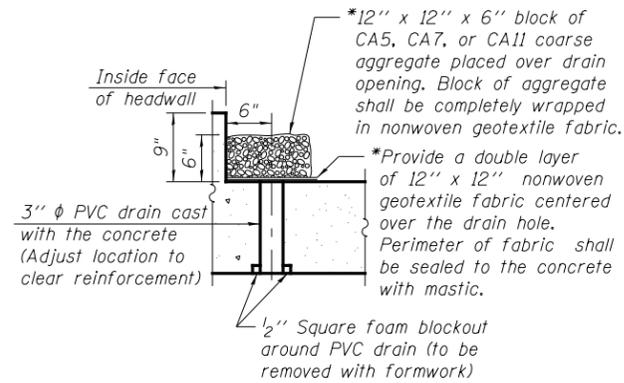
**TOP SLAB**

**BOTTOM SLAB**

**SHOWING REINFORCEMENT**

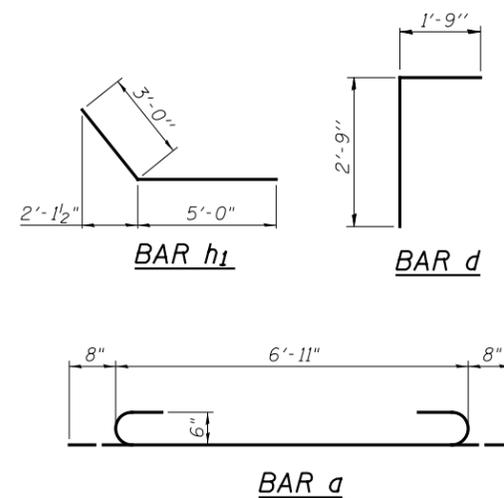
**SHOWING OUTLINES**

**PLAN**



**DRAIN DETAIL**

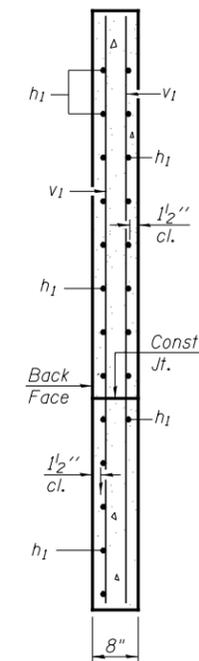
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



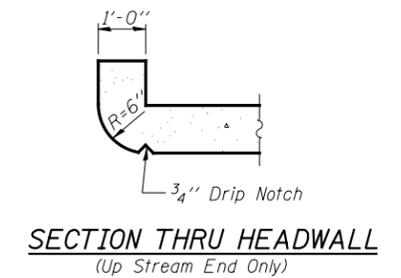
**BAR h1**

**BAR d**

**BAR a**



**SECTION A-A**



**SECTION THRU HEADWALL**  
(Up Stream End Only)

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	40	#6	8'-3"	
a1	2	#4	5'-10"	—
d	14	#4	4'-6"	
d1	56	#4	1'-2"	—
h	52	#4	5'-8"	—
h1	52	#5	8'-0"	—
h2	4	#6	5'-10"	—
v	44	#6	3'-10"	—
v1	16	#4	6'-9"	—
Concrete Box Culverts			Cu. Yd.	9.9
Reinforcement Bars			Pound	1590

Notes:  
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.  
Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications. Cost shall be included in the cost of Concrete Box Culverts.

REVISED -	USER NAME =	DESIGNED - PSS
REVISED -	FILE NAME =	CHECKED - VPT
REVISED -	PLOT SCALE =	DRAWN - AJF
REVISED -	PLOT DATE =	CHECKED - VPT



**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS WATER CROSSING 149A**

SHEET NO. 2 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(109, 110R-1)	KENDALL	619	400
CONTRACT NO. 66B84				
ILLINOIS FED. AID PROJECT				