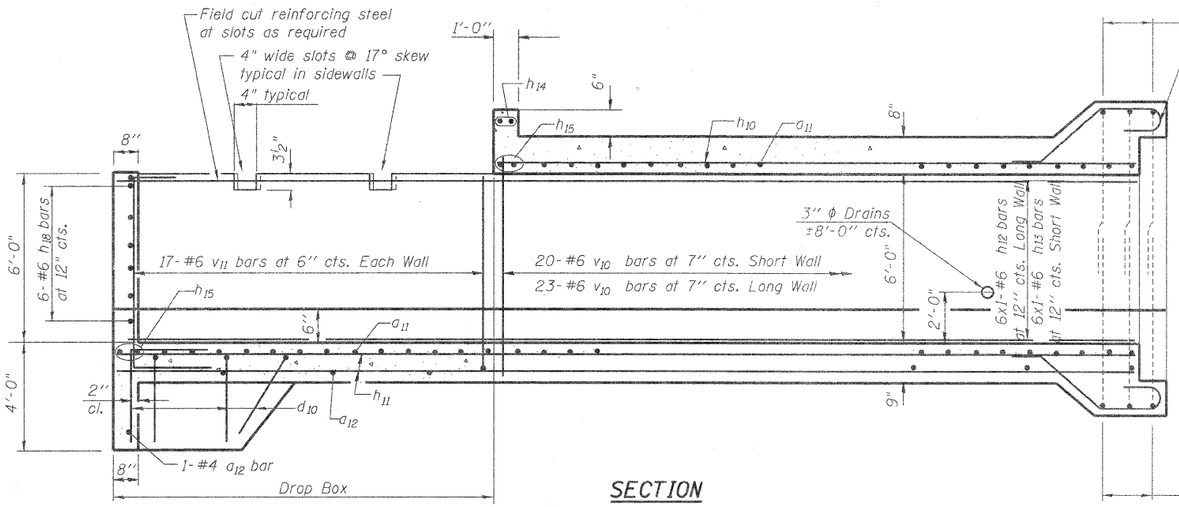
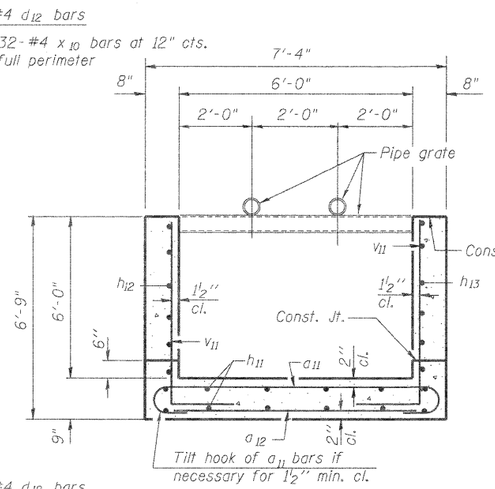
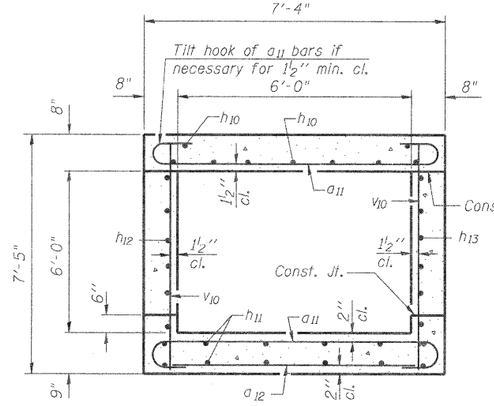


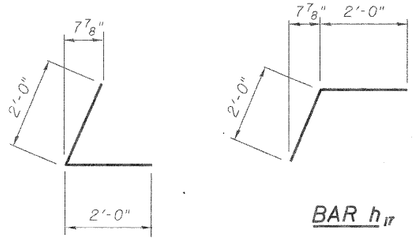
SECTION

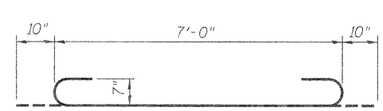


SECTION THRU DROP BOX

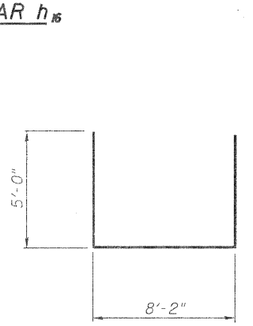


SECTION THRU BARREL

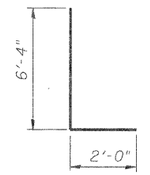




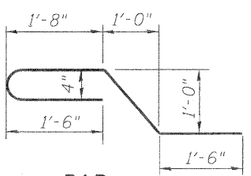
BAR a_{11}



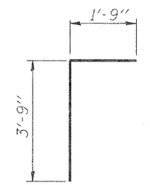
BAR d_{12}



BAR v_{11}



BAR x_{10}

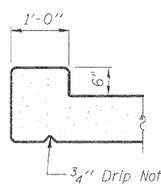


BAR d_{10}

PLAN

** Cut in field to fit.

* Cut in field to fit for skew. Use balance of a_{11} bars in Drop Box bottom slab



SECTION THRU HEADWALL

NOTES

A distance of not less than six feet of the barrel shall be poured monolithically with the Drop box walls.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

DESIGN STRESSES

fy = 60,000 psi
f'c = 3,500 psi

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_{11}	65	#7	8'-8"	
a_{12}	11	#4	7'-0"	
d_{10}	18	#4	5'-6"	
d_{12}	6	#4	18'-2"	
h_{10}	9	#6	12'-11"	
h_{11}	12	#5	22'-0"	
h_{12}	6	#6	22'-0"	
h_{13}	6	#6	17'-8"	
h_{14}	2	#6	7'-0"	
h_{15}	4	#6	7'-0"	
h_{16}	6	#6	4'-0"	
h_{17}	6	#6	4'-0"	
h_{18}	6	#6	7'-0"	
v_{10}	43	#6	7'-0"	
v_{11}	47	#6	8'-4"	
x_{10}	32	#4	6'-5"	
Concrete Box Culverts			Cu. Yd.	21.7
Reinforcement Bars			Pound	3,500

FILE NAME: 1011332-64515-005-CipUsReinf	USER NAME =	DESIGNED - MHM	REVISED -
		CHECKED - JBF	REVISED -
	PLOT SCALE =	DRAWN - RAP	REVISED -
	PLOT DATE =	CHECKED - JBF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UPSTREAM CAST-IN-PLACE CULVERT REINFORCEMENT
S.N. 101-1332

SHEET NO. 5 OF 6 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	34R	WINNEBAGO	491	329
		CONTRACT NO. 64515		
	ILLINOIS	FED. AID PROJECT		