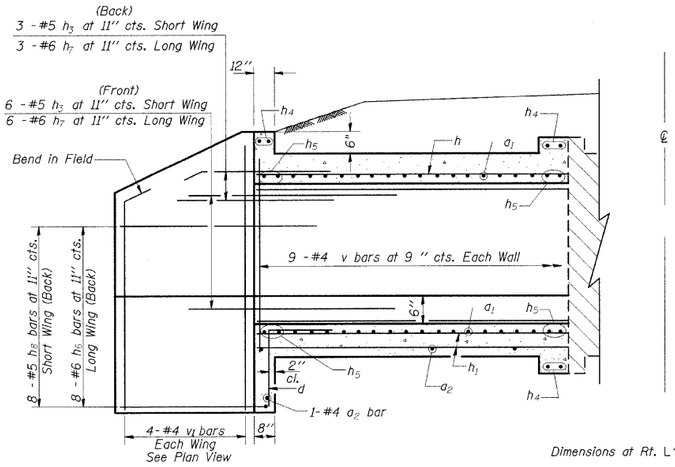
CONTRACT NO. 98542

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
932	(8,9,11)W,RS-1	*	401	187
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* JOHNSON/POPE

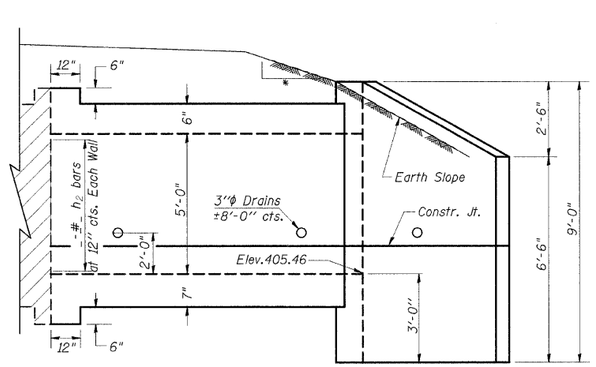
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION



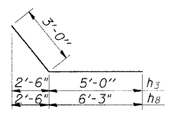
Dimensions at Rt. L's to ℄ Roadway

HALF LONG. SECTION

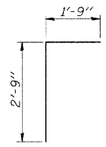


HALF ELEVATION

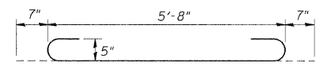
- 4:1 TO CLEAR ZONE
  3:1 AFTER CLEAR ZONE



BARS h_3 & h_8



BAR d

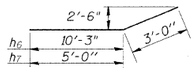


BAR a_1

DESIGN STRESSES

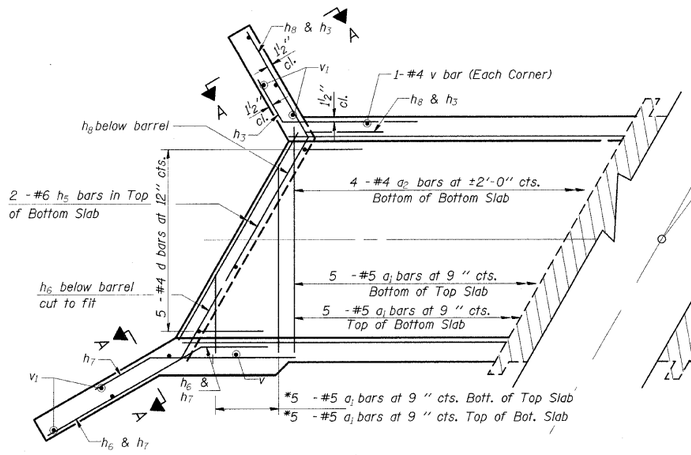
fy = 60,000 psi
f'c = 3,500 psi

LOADING HS 20-44 & ALT.

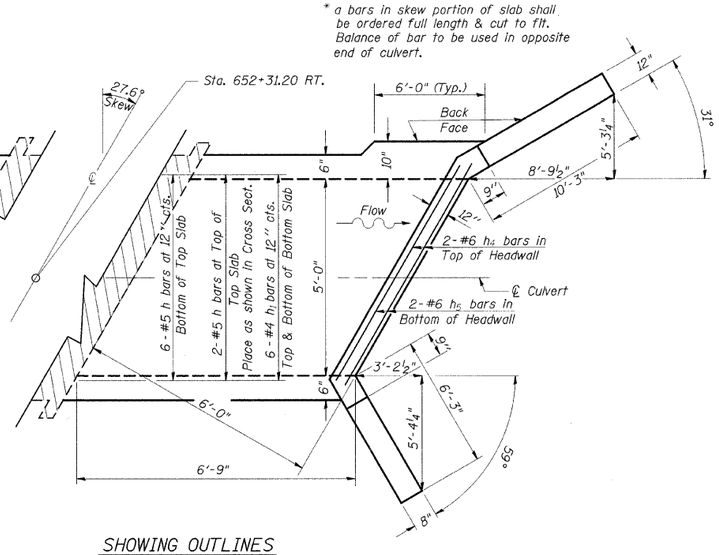


BARS h_6 & h_7

* a bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.

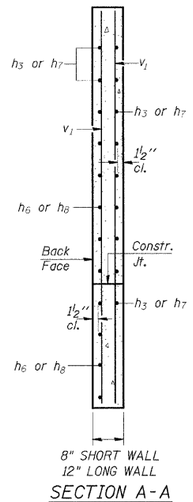


SHOWING REINFORCEMENT



SHOWING OUTLINES

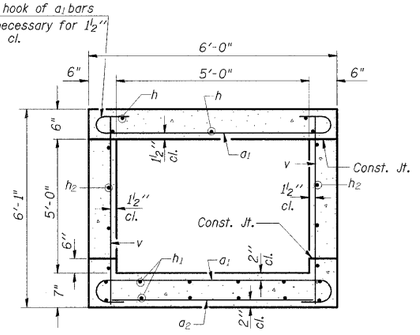
PLAN



8" SHORT WALL
12" LONG WALL

SECTION A-A

Tilt hook of a_1 bars if necessary for 1½" min. cl.

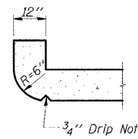


SECTION THRU BARREL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	20	#5	6'-10"	
a_2	5	#4	5'-3"	
d	5	#4	4'-6"	
h	8	#5	6'-6"	
h_1	12	#4	6'-6"	
h_2	10	#5	6'-6"	
h_3	9	#5	8'-0"	
h_4	6	#6	5'-10"	
h_5	8	#6	6'-5"	
h_6	8	#6	13'-3"	
h_7	9	#6	8'-0"	
h_8	8	#5	9'-3"	
v	18	#4	5'-9"	
v_1	8	#4	8'-7"	
Expansion Bolts ¾"		Each	16	
Concrete Box Culverts		Cu. Yd.	7.9	
Reinforcement Bars		Pound	1020	

PRECAST OPTION NOT ALLOWED



SECTION THRU HEADWALL
(Up Stream End Only)

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.

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

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

All construction joints shall be bonded.

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION

STATION 652+31.2 RT.

5' X 5', SKEW 27.6° RT. AH.

EXTEND 6'-9"

SSB-H-R 6-1-2000

DATE-TIME
DGN-SPEC