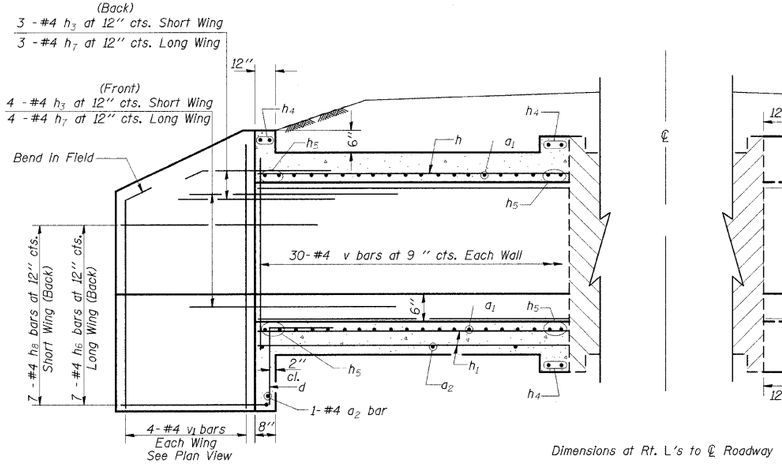
CONTRACT NO. 98542

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
932	(8,9,11)W,RS-1	*	401	176
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

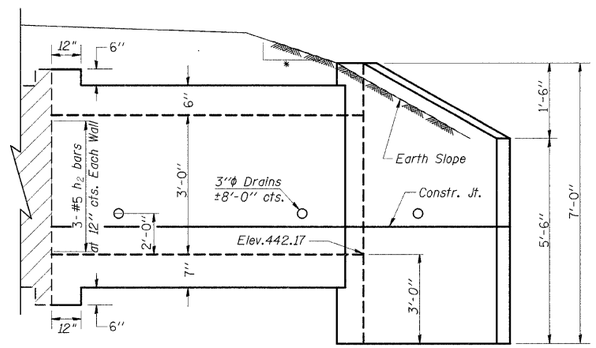
* JOHNSON/POPE

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION



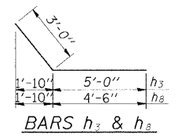
HALF LONG. SECTION



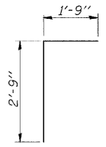
Dimensions at Rt. L's to ℄ Roadway

HALF ELEVATION

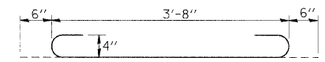
* 4:1 TO CLEAR ZONE
3:1 AFTER CLEAR ZONE



BARS h_3 & h_8



BAR d

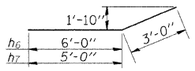


BAR a_1

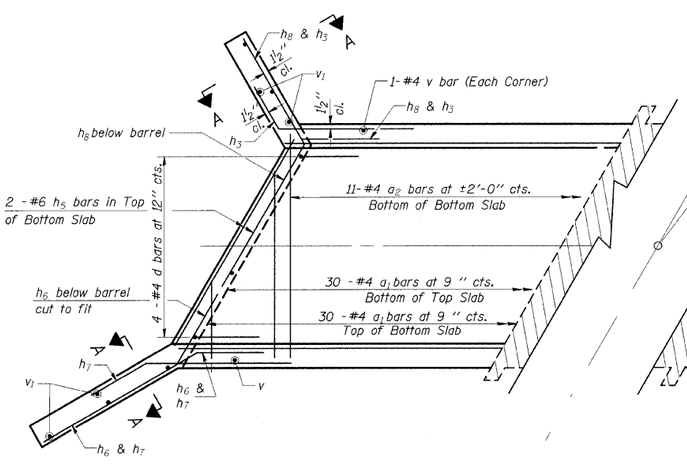
DESIGN STRESSES

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

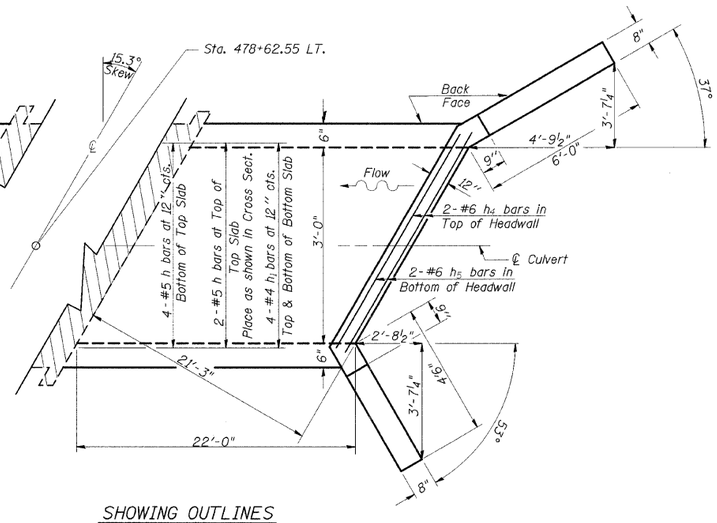
LOADING HS 20-44 & ALT.



BARS h_6 & h_7



SHOWING REINFORCEMENT



SHOWING OUTLINES

PLAN

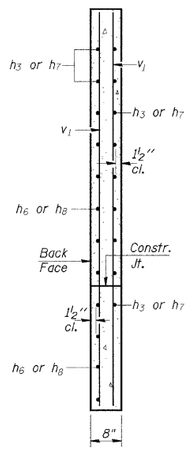
NOTES

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.

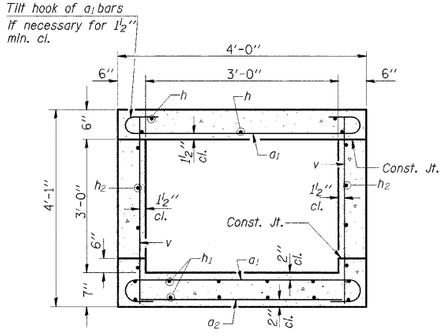
Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

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

All construction joints shall be bonded.



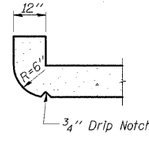
SECTION A-A



SECTION THRU BARREL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	60	#4	4'-8"	⊂⊃
a_2	12	#4	3'-3"	—
d	4	#4	4'-6"	⌐
h	6	#5	21'-9"	—
h_1	8	#4	21'-9"	—
h_2	6	#5	21'-9"	—
h_3	7	#4	8'-0"	⟋
h_4	6	#6	3'-4"	—
h_5	8	#6	3'-10"	—
h_6	7	#4	9'-0"	⟋
h_7	7	#4	8'-0"	⟋
h_8	7	#4	1'-6"	⟋
v	62	#4	3'-9"	—
v_1	8	#4	6'-1"	—
Expansion Bolts ¾"		Each		10
Concrete Box Culverts		Cu. Yd.		7.9
Reinforcement Bars		Pound		1030



SECTION THRU HEADWALL

(Up Stream End Only)

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION

STATION 478+62.55 LT.

3' X 3', SKEW 15.3° RT. AH.

EXTEND 22'-0"

•DATE-TIME•
•DGN-SPEC•

SSB-H-R 6-1-2000