

DETAIL OF DROP STRUCTURE

BOX CULVERT 1 @ 7.0' X 3.0'

STA. 16 + 40.91 LT. (CULVERT NO. 7)

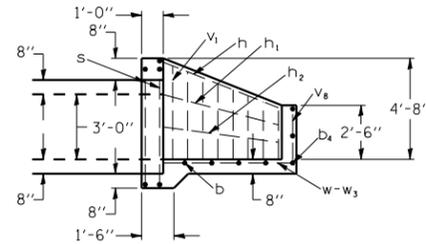
Up Stream End

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	10-32HB-3,K	Champaign	352	157
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90758				

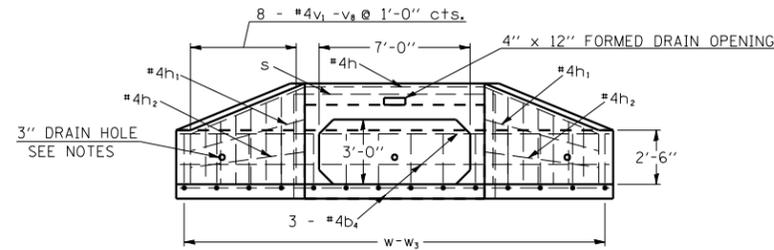
F.A.I. RT. 57
SEC. 10-32HB-3,K
LOADING HS 20-44 & ALT.
STR. NO. 010-8355

NAME PLATE

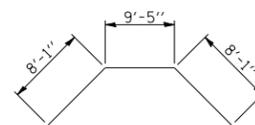
- See Highway Standard 515001-02 for dimensions and placement.
- Name Plate will be paid for at the contract unit price per "EACH" for "NAME PLATES".



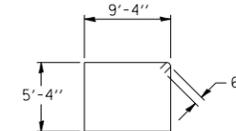
SECTION A - A



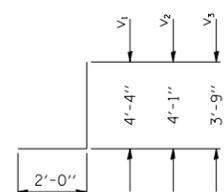
END VIEW



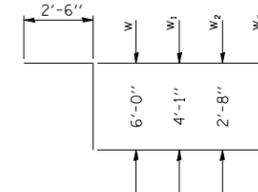
BAR h



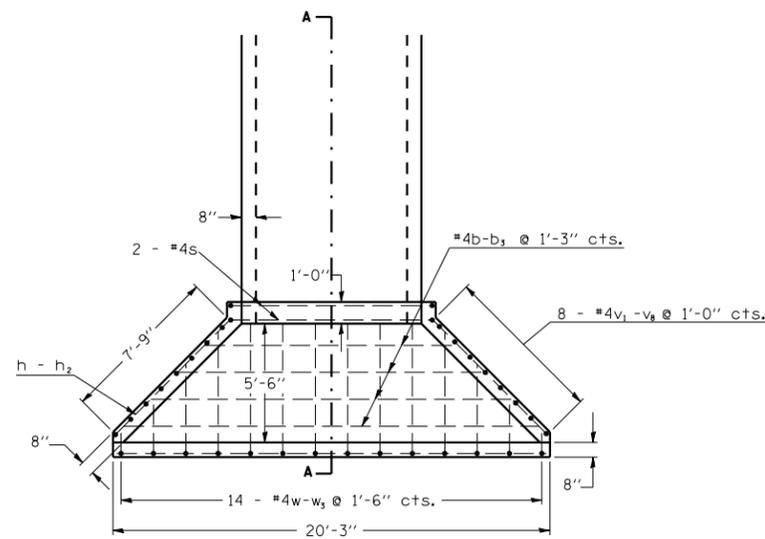
BAR s



v BARS



w BARS



PLAN

NOTES

- All bars should be rounded and shall conform to the requirements of Art. 1006.10 of Standard Specs.
- Class SI Concrete shall be used throughout.
- The Precast Concrete Box Culvert Sections shall conform to the requirements of AASHTO M259.
- All dimensions are in FEET (')-INCHES (") unless otherwise noted.
- Concrete and Rebar quantities and lengths calculated for the cast-in-place End Sections will vary based on the precast box culverts supplied.
- End Sections will be paid for at the contract unit price each for BOX CULVERT END SECTION CULVERT NO., as outlined in Art. 540.08, which prices shall include all concrete, rebar, and all other items necessary to complete the proposed work.
- Drain holes shall be provided in accordance with Art. 503.12.
- Drawings not to scale.

BILL OF MATERIAL (ONE HEADWALL)

Bar	No.	Size	Length (ft)	Shape
b	1	#4	11'-9"	—
b ₁	1	#4	14'-3"	—
b ₂	1	#4	16'-9"	—
b ₃	1	#4	19'-3"	—
b ₄	3	#4	19'-11"	—
h	1	#4	25'-7"	—
h ₁	2	#4	7'-10"	—
h ₂	2	#4	7'-9"	—
s	2	#4	29'-4"	—
v ₁	2	#4	6'-4"	J
v ₂	2	#4	6'-1"	J
v ₃	2	#4	5'-9"	J
v ₄	2	#4	5'-6"	J
v ₅	2	#4	5'-3"	J
v ₆	2	#4	4'-11"	J
v ₇	2	#4	4'-8"	J
v ₈	2	#4	4'-5"	J
w	8	#4	8'-6"	J
w ₁	2	#4	6'-7"	J
w ₂	2	#4	5'-2"	J
w ₃	2	#4	3'-8"	J
Reinforcement Bars			LB.	282
Class SI Conc. Hdwall			CU. YD.	6.6

ITEM	UNIT	QUANT.
Drop Structure Culvert No. 7,	EACH	1

BOX CULVERT END SECTIONS (CAST IN PLACE)
1 @ 7.0' X 3.0'
STA. 16+40.91 NO SKEW

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		CULVERT DETAILS

SCALE: VERT. DRAWN BY JDC
 HORIZ. CHECKED BY
 DATE 051605