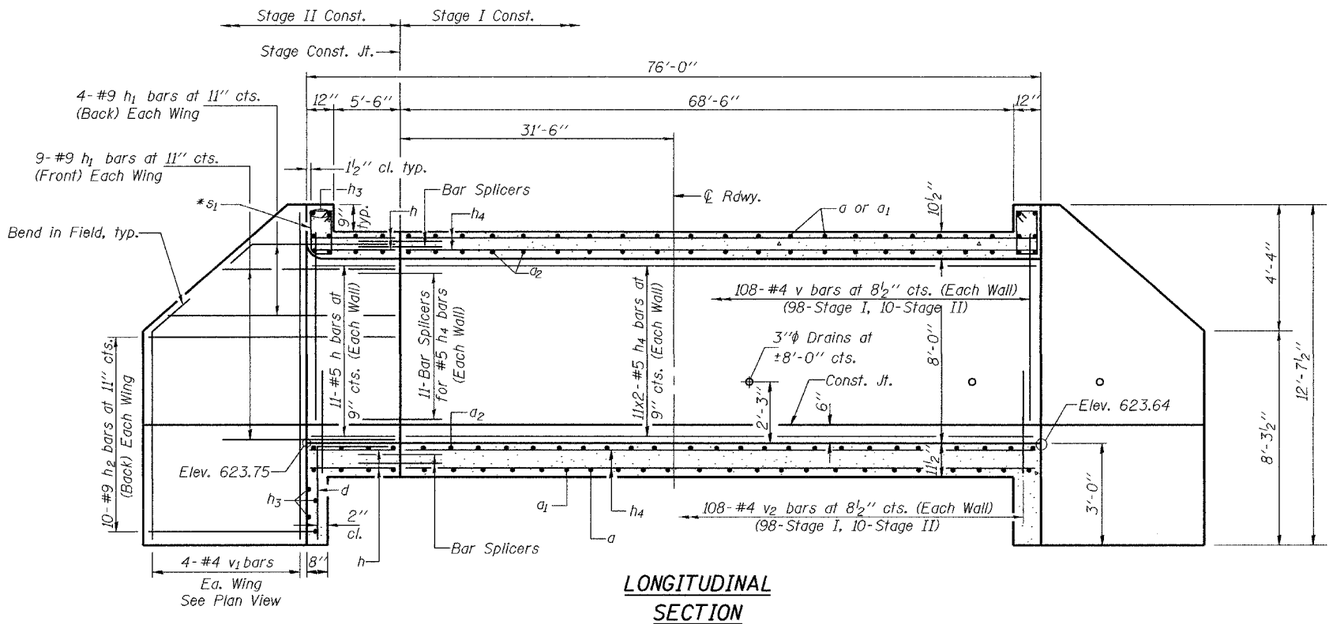
*Use s_1 bar at upstream headwall as shown.
Downstream headwall similar except use s bar.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

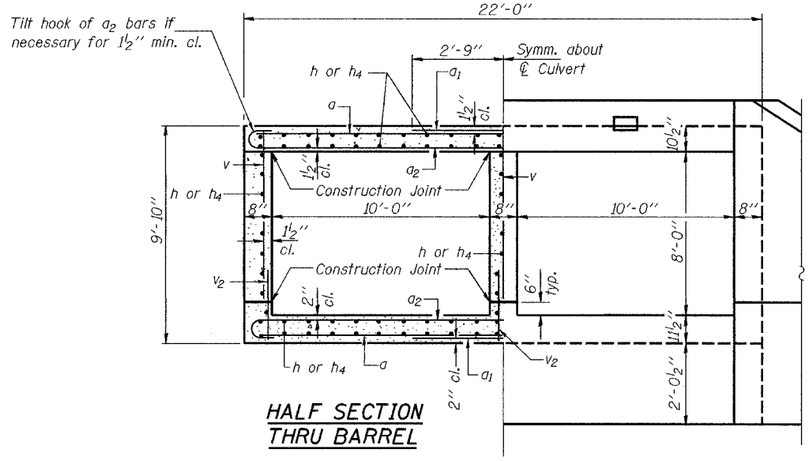
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 618	33(EXT) BR	McDONOUGH	63	24
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
7 SHEETS

Contract No. 68266

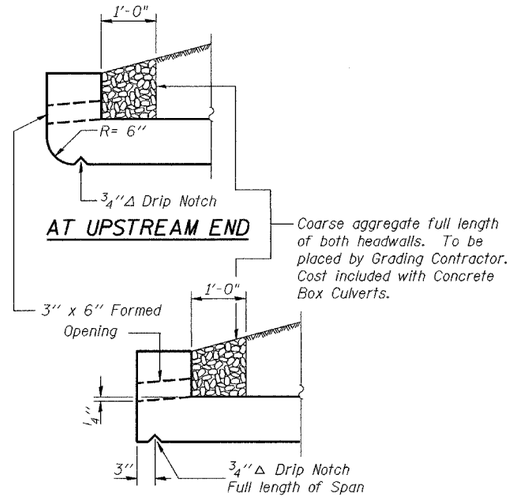


LONGITUDINAL SECTION

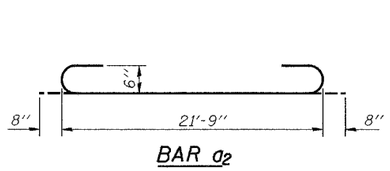


HALF SECTION THRU BARREL

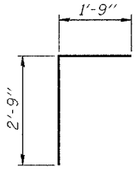
HALF END ELEVATION



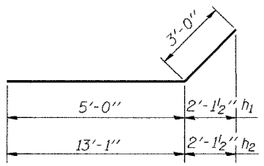
DRAIN DETAIL



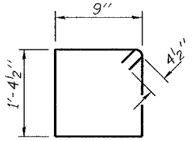
BAR a_2



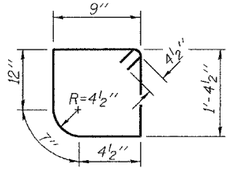
BAR d



BARS h_1 & h_2



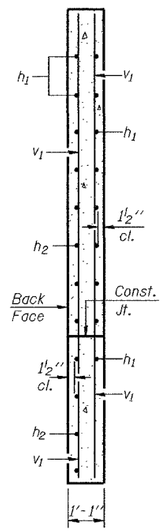
BAR s



BAR s_1

MIN. BAR LAPS

#4 bar = 1'-4"
#5 bar = 1'-8"



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	122	#6	21'-9"	
a_1	120	#6	5'-6"	
a_2	262	#6	23'-1"	
d	42	#4	4'-6"	
h	121	#5	6'-2"	
h_1	52	#9	8'-0"	
h_2	40	#9	16'-1"	
h_3	10	#6	21'-6"	
h_4	242	#5	35'-5"	
s	22	#4	5'-0"	
s_1	22	#4	4'-10"	
v	328	#4	8'-2"	
v_1	16	#4	12'-4"	
v_2	328	#4	2'-8"	
Concrete Box Culverts			Cu. Yd.	186.5
Reinforcement Bars			Pound	30,480

DESIGNED	Stephen M. Ryan
CHECKED	Sital J. Bhakta
DRAWN	BECKY M. CURRY
CHECKED	SMR & SJB

September 10, 2004
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Notes:
Bars indicated thus 11x2-#5 etc. indicates 11 lines of bars with 2 lengths per line.

CULVERT DETAILS
F.A.P. ROUTE 618 - SECTION 33(EXT)BR
McDONOUGH COUNTY
STATION 1014+55.00
STRUCTURE NO. 055-2005

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