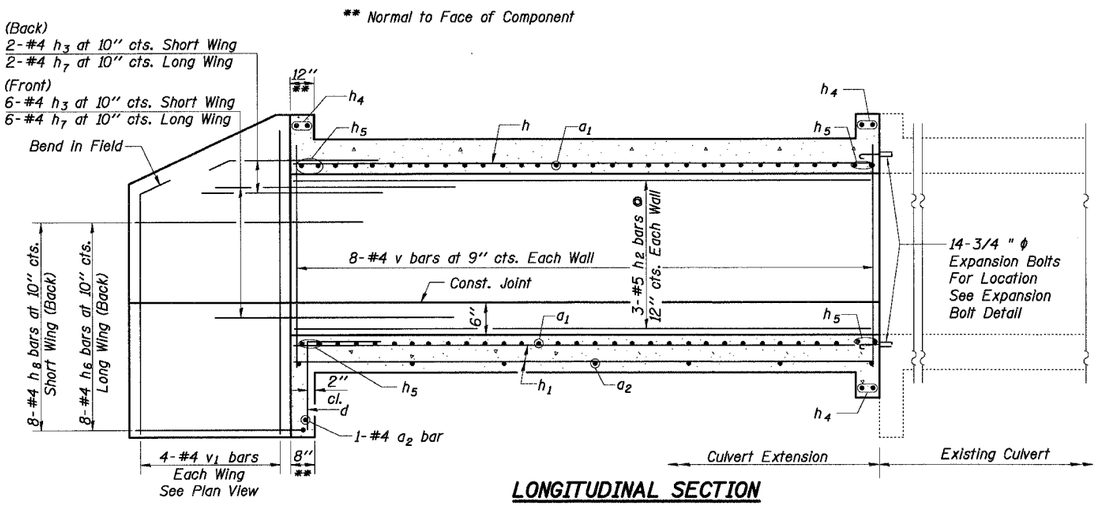
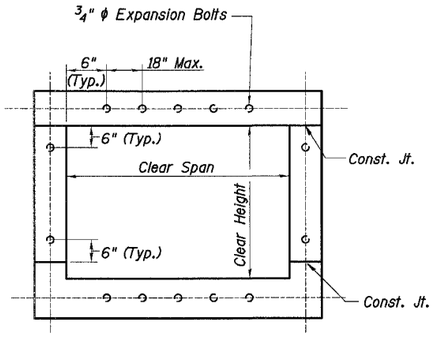
CONTRACT NO. 66600

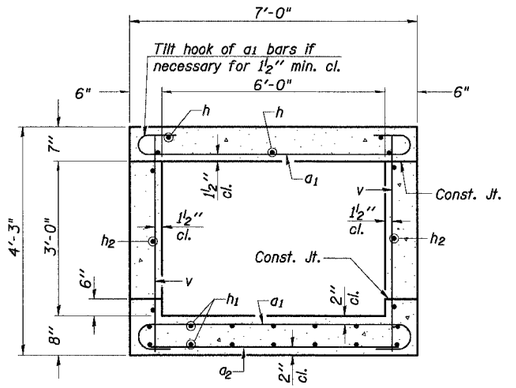
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	50-5HBK-2	LASALLE	331	154
STA. 105+00		TO STA. 136+00		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



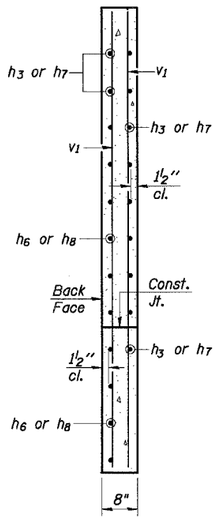
LONGITUDINAL SECTION



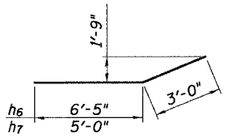
EXPANSION BOLT DETAIL



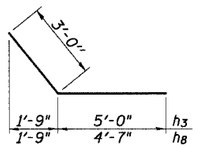
SECTION THRU BARREL



SECTION A-A



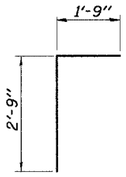
BARS h6 & h7



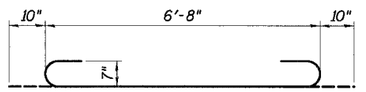
BARS h3 & h8

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	16	# 7	8'-4"	
a2	4	# 4	6'-8"	
d	7	# 4	4'-6"	
h	9	# 7	4'-8"	
h1	14	# 4	4'-8"	
h2	6	# 5	4'-8"	
h3	8	# 4	8'-0"	
h4	6	# 6	6'-1"	
h5	8	# 6	7'-1"	
h6	8	# 4	9'-5"	
h7	8	# 4	8'-0"	
h8	8	# 4	7'-7"	
v	18	# 4	3'-11"	
v1	8	# 4	6'-9"	
Concrete Box Culverts			Cu. Yd.	5
Reinforcement Bars			Pound	870

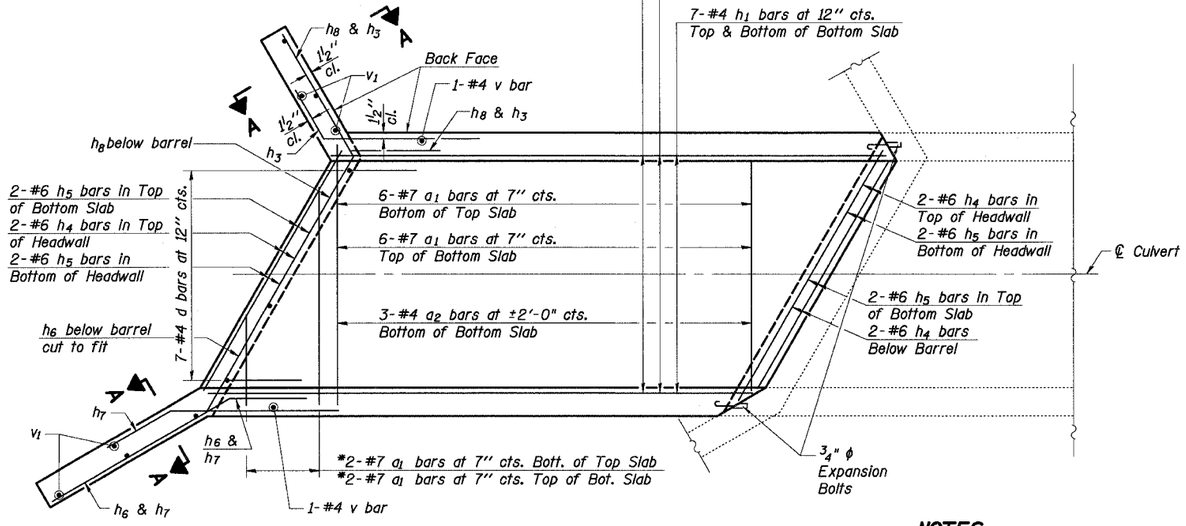


BAR d



BAR a1

* 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.



PLAN SHOWING REINFORCEMENT

DESIGN STRESSES

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

LOADING HS 20-44 & ALT.

NOTES

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.
All construction joints shall be bonded.
Expansion bolts shall be 3/4" ϕ hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete.
If necessary, cut to fit bars in the culvert extension at the interface between the existing culvert and the culvert extension.
Cost of 3/4" ϕ Expansion Bolts to be included with Concrete Box Culverts.

REVISIONS	
NAME	DATE

Baker Engineering, Inc.

ILLINOIS DEPARTMENT OF TRANSPORTATION

6'X3' BOX CULVERT EXTENSION DETAILS

MARSEILLES ROAD (FAS Rt. 268)
OVER I-80 (F.A.I. ROUTE 80)
STRUCTURE NUMBER 050-0245
LA SALLE COUNTY SECTION 50-5HBK-2
STATION 120+00.08
DESIGNED: DM DRAWN: DM
DATE: 11/02/07 CHECKED: GG CHECKED: GG

h:\07496\3.0 deliverables\3.3 structure\Drawings\Final\Culvert 6x3 Details.dgn
11/5/2007