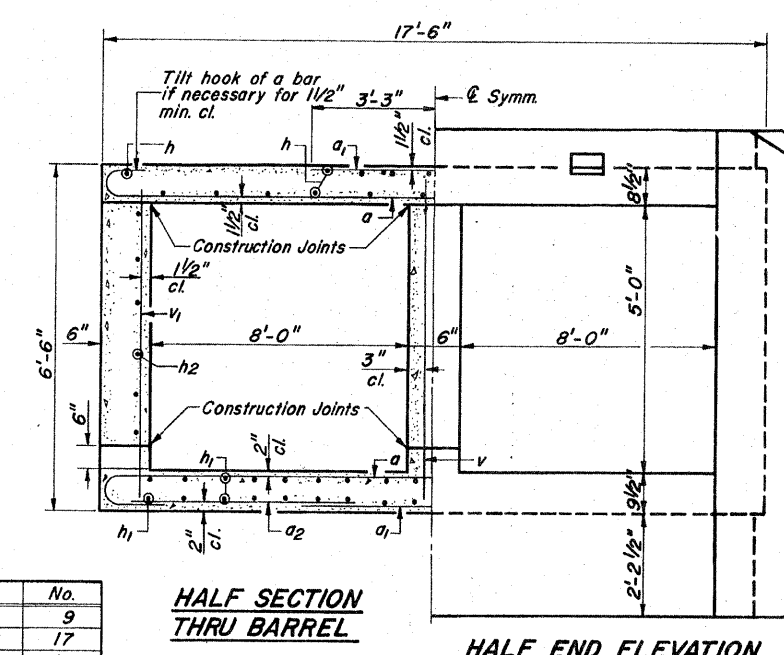
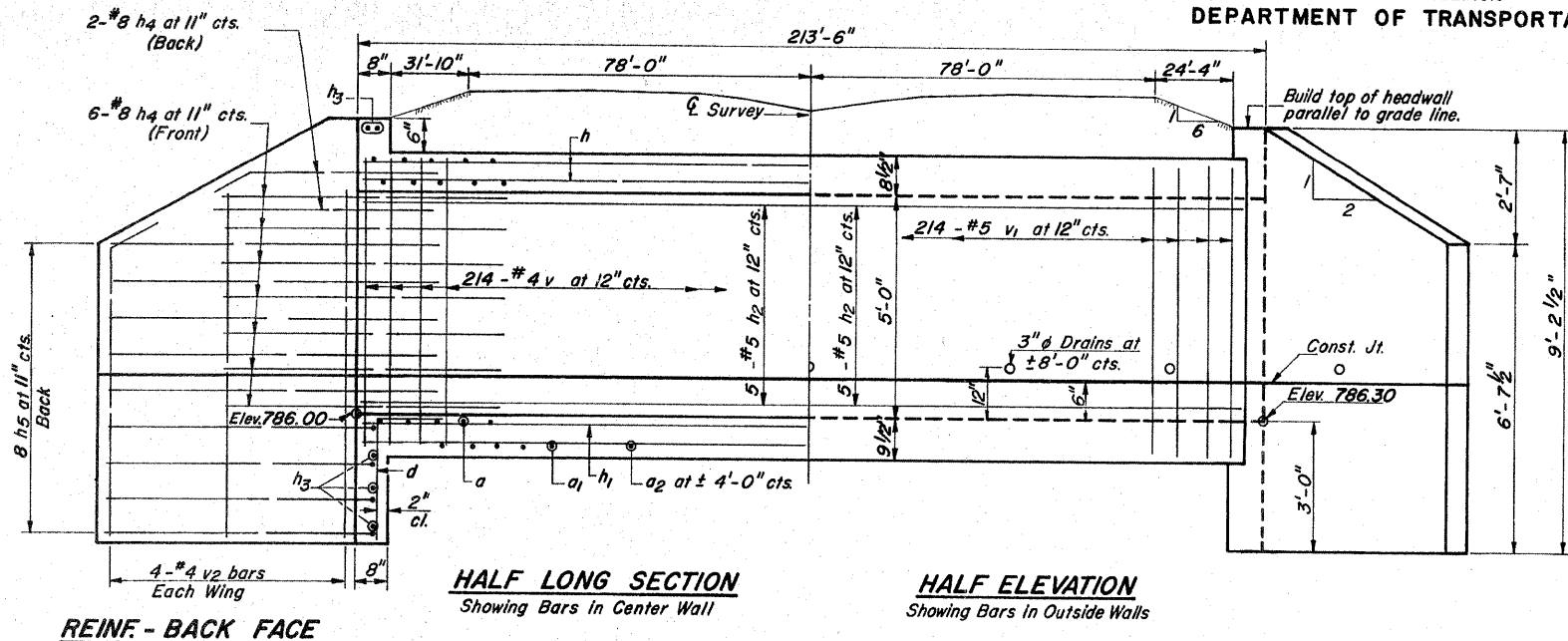


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

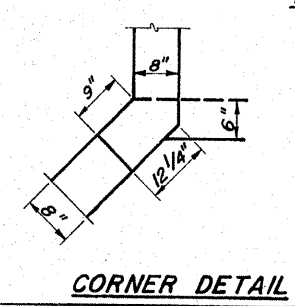
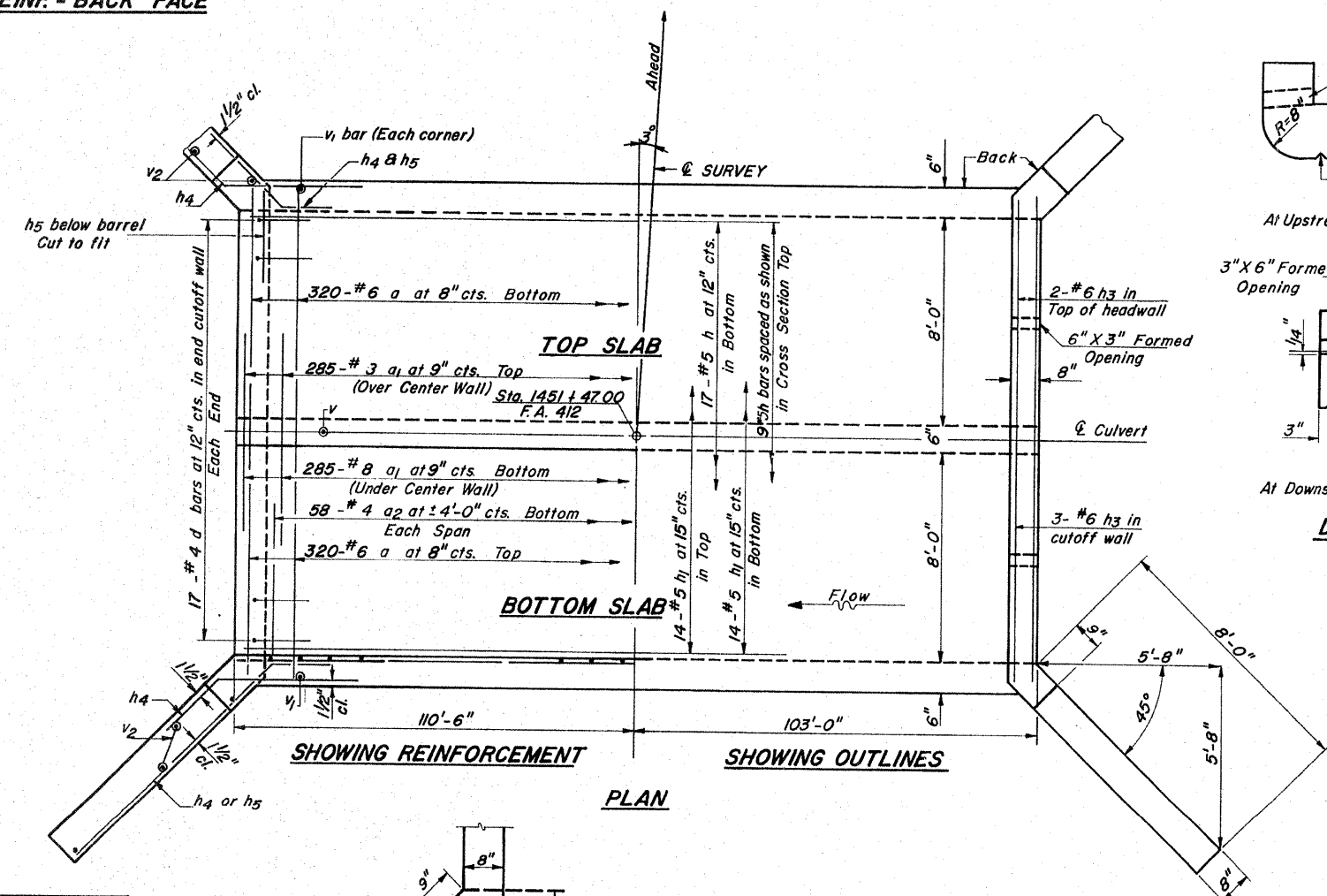
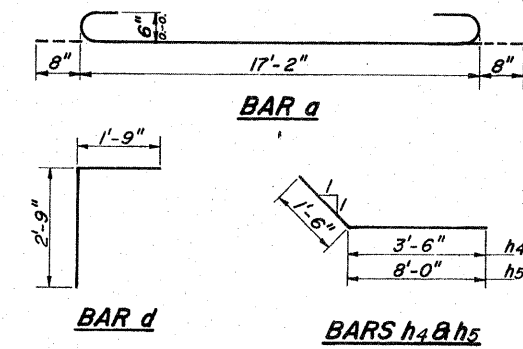
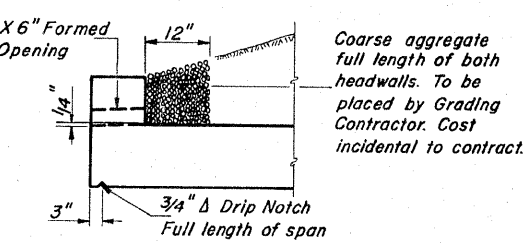
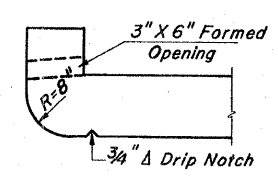
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 412	141-1A	OGLE	628	227
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT.		

SHEET NO. 2
2 SHEETS



Bar	Location	No.
h	Top of top slab	9
h	Bottom of top slab	17
h ₁	Top of bottom slab	14
h ₁	Bottom of bottom slab	14
h ₂	Each outside wall	5
h ₂	Center wall	5

7 Lengths each required



DESIGNED:	WAI
CHECKED:	HMW
DRAWN:	WAI & BSB
CHECKED:	HMW

BILL OF MATERIAL

Bar	No.	Size	Length	Bar	No.	Size	Length
a	640	#6	18'-6"	v	214	#4	6'-2"
a ₁	570	#8	6'-6"	v ₁	432	#5	6'-2"
a ₂	116	#4	6'-3"	v ₂	16	#4	8'-0"
d	34	#4	4'-6"				
h	182	#5	31'-6"				
h ₁	196	#5	31'-6"				
h ₂	105	#5	31'-6"				
h ₃	10	#6	17'-0"				
h ₄	32	#8	5'-0"				
h ₅	32	#8	9'-6"				

Class X Concrete	Cu. Yds.	275.4
Reinforcement Bars	Lbs.	49,370

FOR INFORMATION ONLY

DESIGN STRESSES
 f_s = 20,000 p.s.i.
 f_c = 1400 p.s.i. Barrel
 f_c = 1200 p.s.i. Wings
 v = 90 p.s.i. Barrel
 n = 10

DBL. 8' X 5' R. C. BOX CULVERT
 F.A. RTE. 412 SECTION 141
 OGLE COUNTY
 STATION 1451+47.00

LOADING HS-20-44