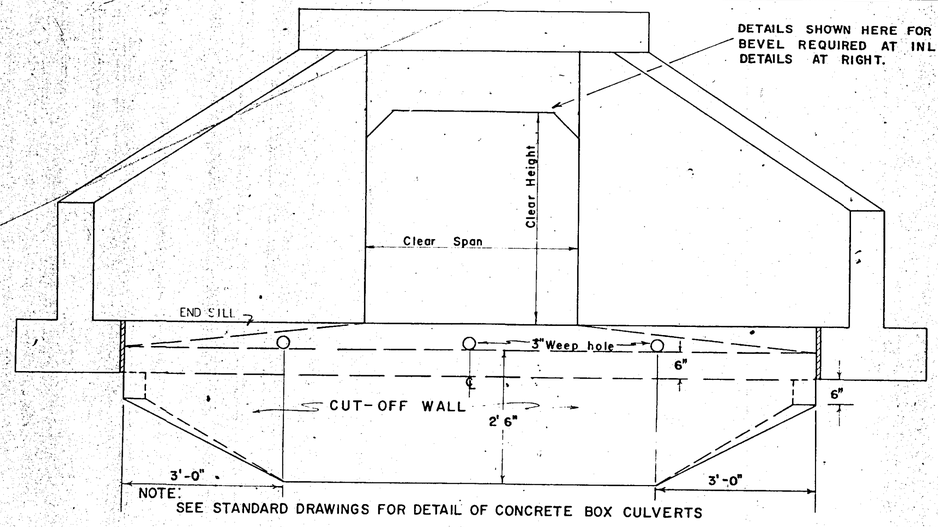
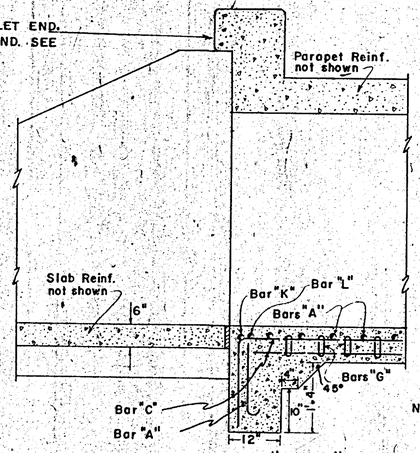
T.T.C.	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	TSAP 193 (9)	78	135

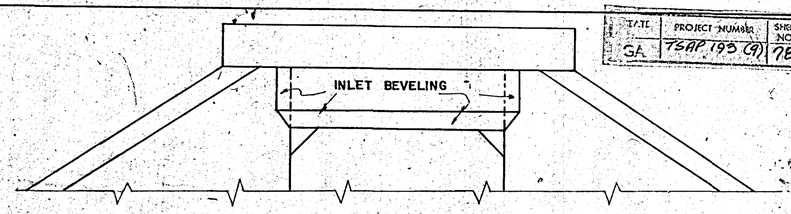


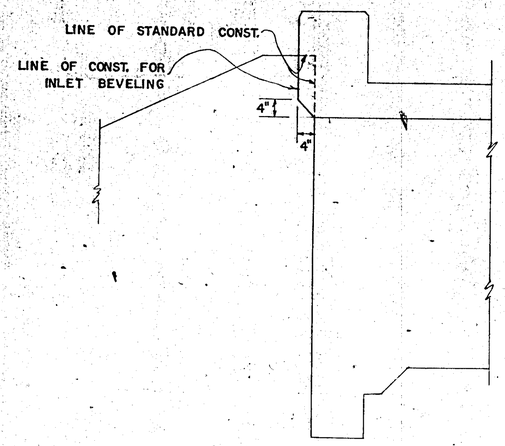
NOTE:
SEE STANDARD DRAWINGS FOR DETAIL OF CONCRETE BOX CULVERTS



SECTION "A-A"

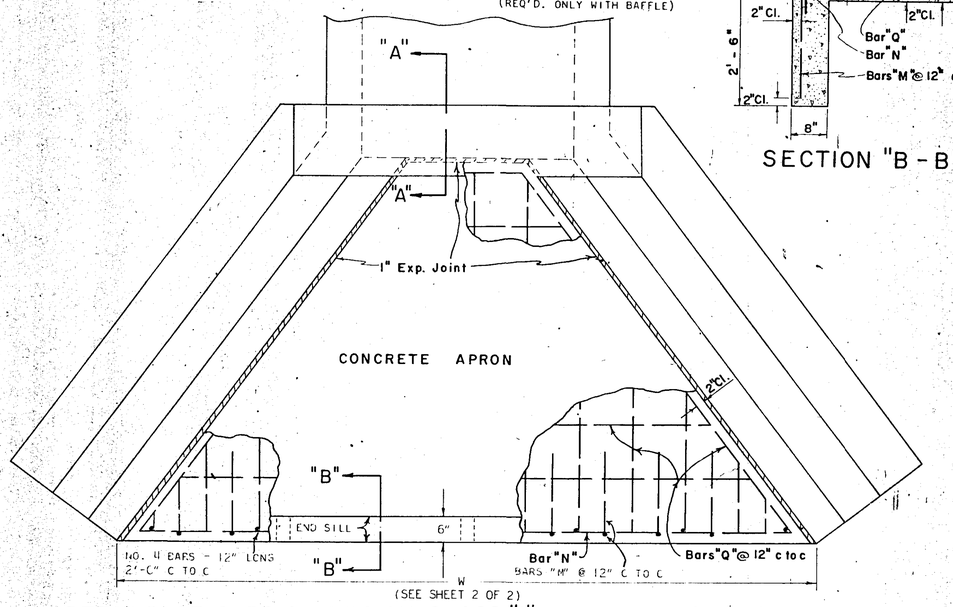
NOTE:
See STANDARD DRAWING For Bar "A" Details.





DETAIL FOR INLET BEVELING ON ALL BOX CULVERTS

SECTION "B-B"

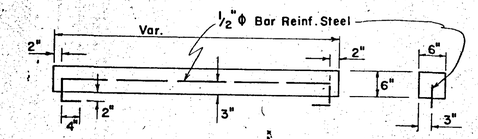


DETAILS OF SPECIAL DESIGN CLASS "A" CONCRETE APRON FOR BOX CULVERTS (OMIT END SILL ON INLET END)

STEEL REINF. FOR APRON			
BAR	SIZE	LENGTH	
M	#4	3'-8"	
N	#5	W-6"	
Q	#4	Vary	

GENERAL NOTES:

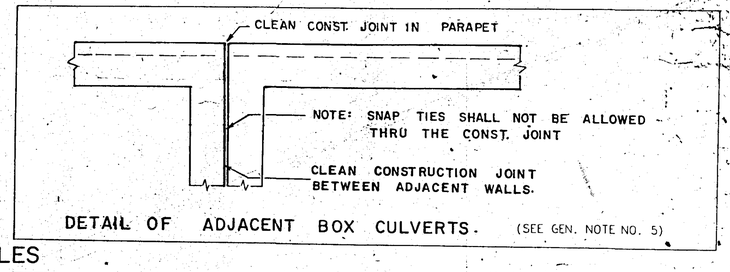
1. INLET BEVELING REQUIRED AT INLET OF ALL BOX CULVERTS, EXTENDING FROM WINGWALL TO WINGWALL, AT TOP OF CULVERT AS SHOWN.
2. CONCRETE APRONS WITH END SILLS ARE REQ'D AT ALL OUTLETS OF ALL BOX CULVERTS. APRONS MAY NOT BE OMITTED ON CONSTRUCTION UNLESS THE ENGINEER DETERMINES THAT EXCESSIVE ROCK CHANNEL WILL PREVENT EROSION AND MAKE THE CONCRETE APRON DIFFICULT TO CONSTRUCT. APRONS (WITHOUT ENDS SILLS) WILL BE REQUIRED AT INLET ENDS ONLY IF PLANS SPECIFY.
3. DETAILS HERESHOWN APPLIED TO ALL BOX CULVERTS, STANDARD AND SPECIAL DESIGN, UNLESS NOTED OTHERWISE ON PLANS.
4. ADJACENT BOX CULVERTS: WHERE ABUTTING OUTSIDE WALLS OF BOX CULVERTS VARY IN THICKNESS ACCORDING TO DESIGN FILL HEIGHT, THE MAXIMUM THICKNESS (SHOWN FOR HIGHEST FILL) IS TO BE MAINTAINED THROUGHOUT BARREL LENGTH WITH CLEAN CONSTRUCTION JOINT BETWEEN THE TWO WALLS AS SHOWN IN DETAIL AT RIGHT. STEEL REINFORCEMENT WILL REMAIN THE SAME AS NORMAL CONSTRUCTION FOR A GIVEN DESIGN WITH DIMENSIONS MEASURED FROM INSIDE OF CULVERT WALL. CU.YDS. OF CONCRETE WILL BE INCREASED DUE TO THIS CONSTRUCTION AND SHOULD BE CALCULATED ON AN INDIVIDUAL BASIS. QUANTITIES FOR STEEL WILL REMAIN THE SAME.



DETAILS OF CLASS "A" CONCRETE BAFFLES

NOTE: BAFFLES MAY BE PRECAST OR POURED IN PLACE. Baffles will be used on pipe and box culvert aprons and in paved ditches at locations shown in the plans or as directed by the engineer.

BASIS OF PAYMENT: = Cu. Yds. Class "A" Concrete
= Lbs. Bar Reinf. Steel



DETAIL OF ADJACENT BOX CULVERTS. (SEE GEN. NOTE NO. 5)

DATE	REVISIONS
8-11-67	CONCRETE BOX CULVERT APRONS
9-5-67	CONCRETE BOX CULVERT APRONS
9-27-72	CONCRETE BOX CULVERT INLET BEVEL.
4-29-75	ADD. GEN. NOTES AND REMOVE BEVEL. DETAIL FROM SEC. A-A
6-6-75	ADDED DETAIL OF ADJACENT BOX CULVERTS
12-1-75	REV. SEC. "A-A" AND "B-B"
11-17-77	REV. GENERAL NOTE #2

CONSTRUCTION DETAILS

CONC. BOX CULVT. INLET BEVELING
CLASS "A" CONCRETE BOX CULVERT APRONS
CLASS "A" CONCRETE BAFFLES
(SEE SHEET 2 FOR BOX CULVERT APRON QUANTITIES)

SHEET 1 OF 2

Bergen N. O. 135 "Imperial"