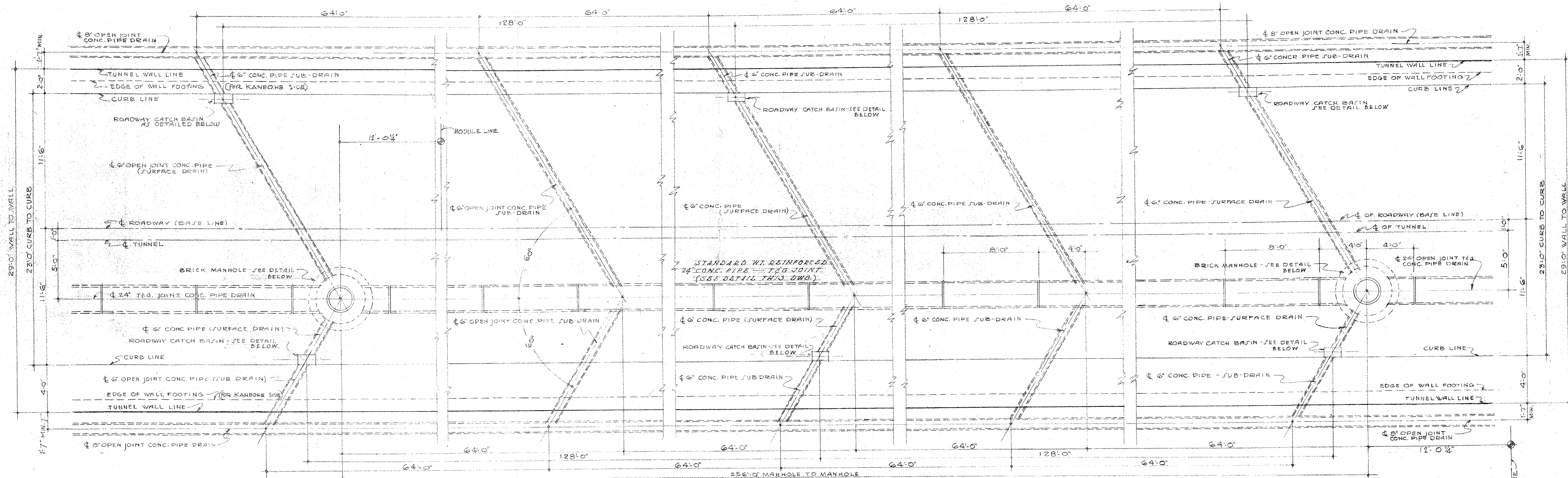
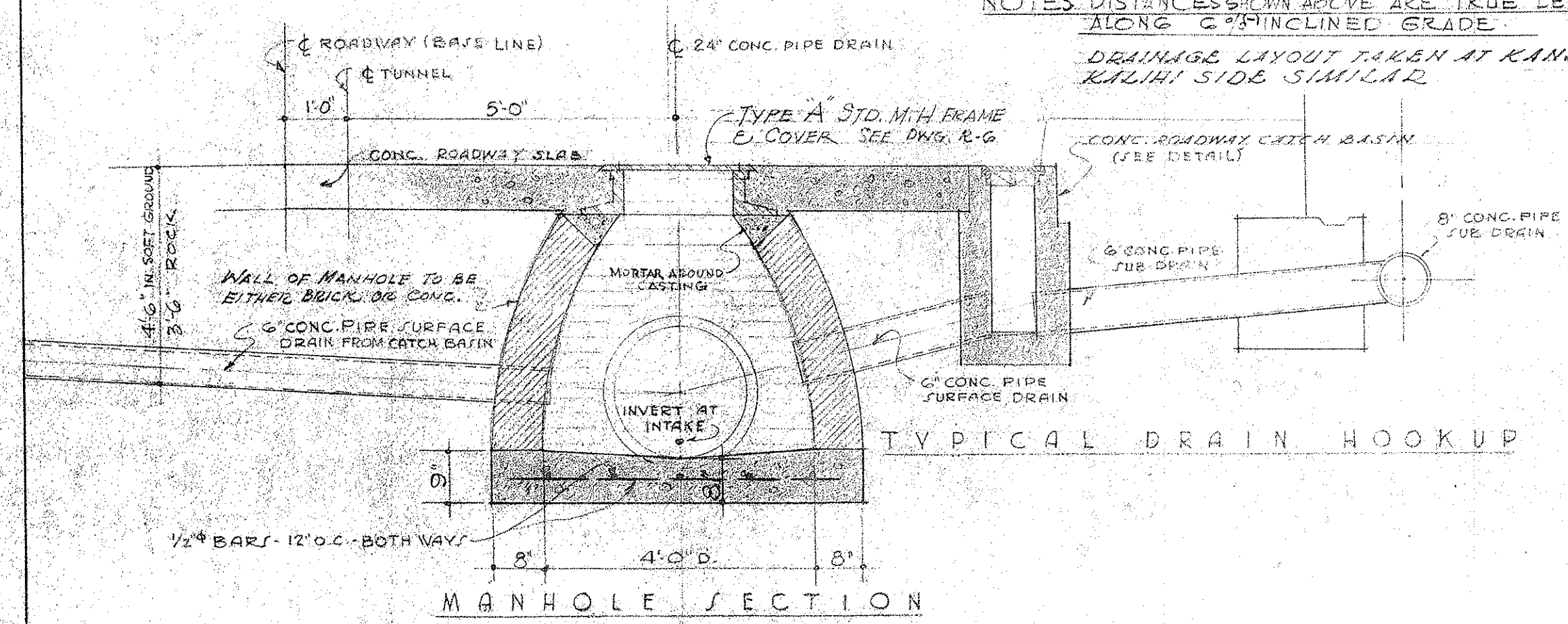




DRAINAGE LAYOUT - MANHOLE TO MANHOLE

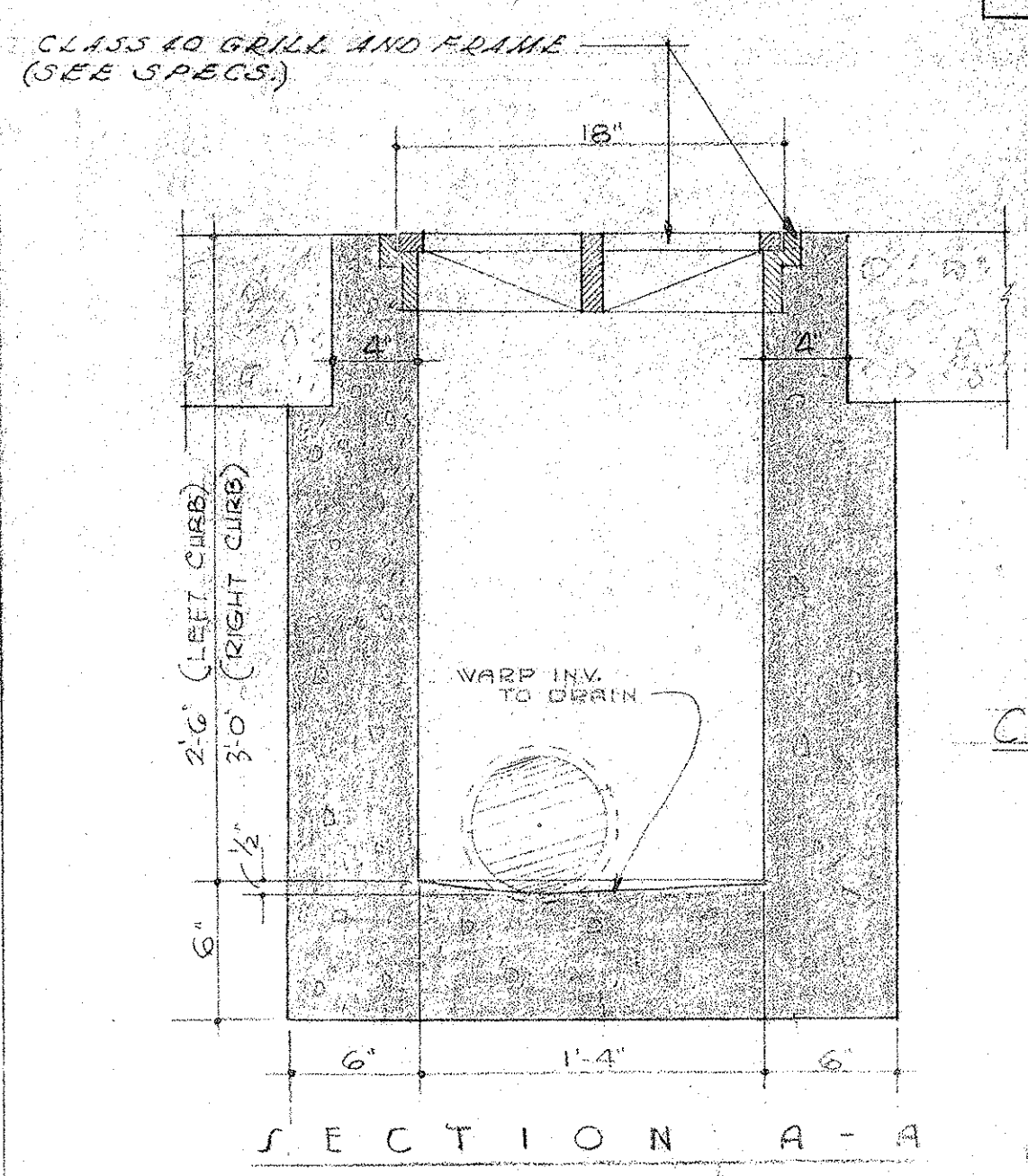
NOTES: DISTANCES SHOWN ABOVE ARE TRUE LENGTH MEASURED ALONG 2% INCLINED GRADE.
DRAINAGE LAYOUT TAKEN AT KANEHOLE SIDE, KALIHI SIDE SIMILAR.

SCALE - 1/4" = 1'-0"



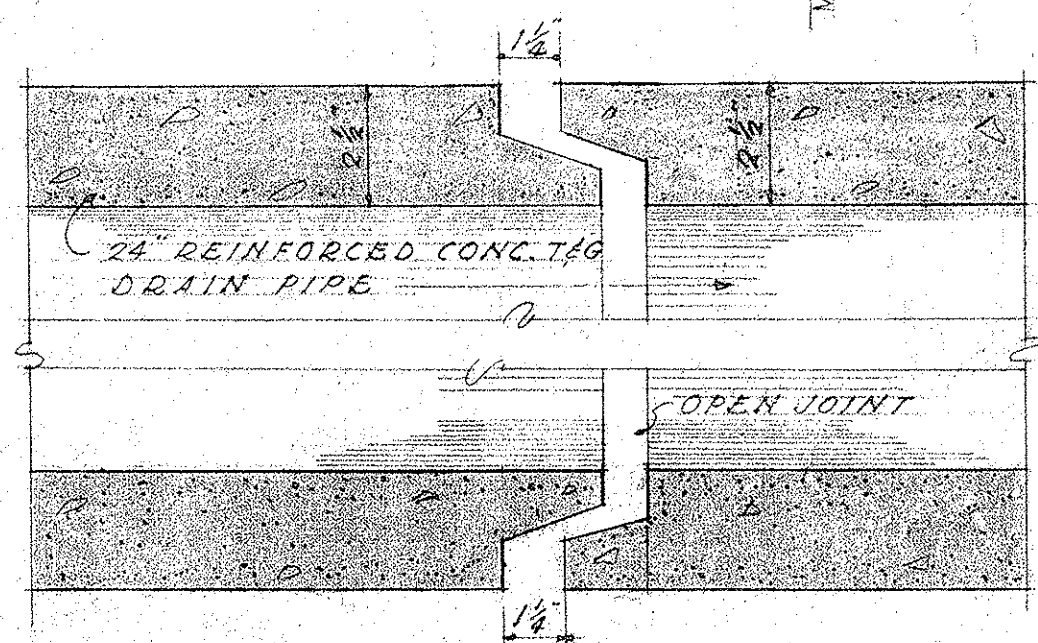
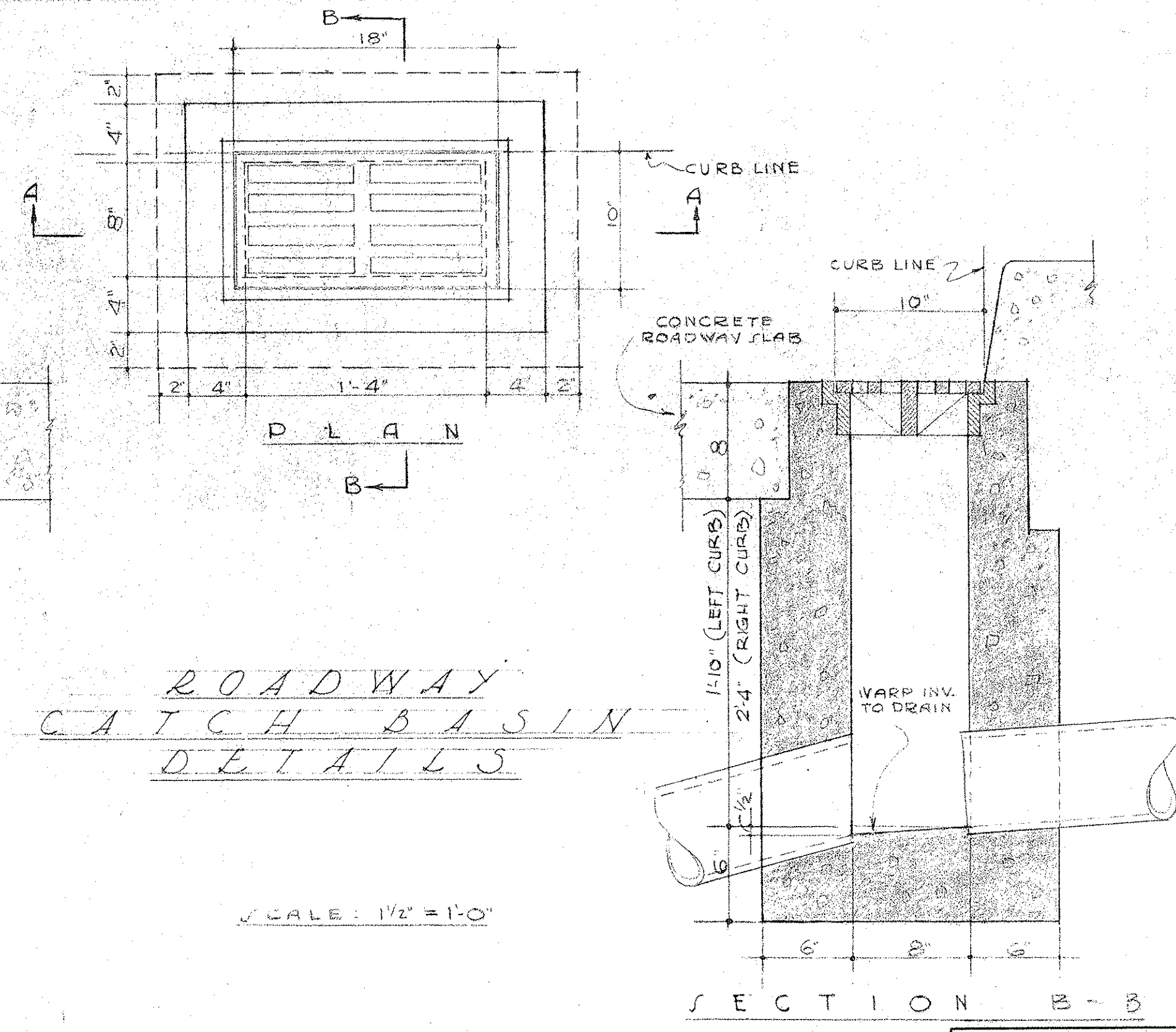
TYPICAL MANHOLE & DRAIN CONNECTION

SCALE - 1/2" = 1'-0"



ROADWAY CATCH BASIN DETAILS

SCALE - 1/2" = 1'-0"



OPEN JOINT DETAIL OF 24" CONC. DRAIN PIPE

DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU BUREAU OF PLANS			
KALIHI TUNNEL			
TUNNEL & SHAFT ROADWAY & DRAINAGE TYPICAL MODULES			
ENGINEER: W. L. LUM	DATE: JULY 18, 1953	CHECKED BY: W. LUM, Y.T.	TRACER: C.H.
DRAFTSMAN: E.K.C.	SCALE: AS NOTED	APPROVED: <i>W. L. LUM</i>	APPROVED: <i>W. LUM</i>
CHIEF ENGINEER	BUREAU ENGINEER		
W.S.	PROFILE	C.B.	
CH. SEC.	P.B.	S.B.	
W.M. BY:	P.W. BY:	S.W. BY:	