

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-075-1(3)	1966	6	42

NOTE:

Locations of the existing water lines as shown on the plans are approximate and were obtained from the B.W.S. Construction and As-Built Plans, and the Robinson Industrial Tract, 3rd Increment Plans. The Contractor shall verify the locations of the existing 12", 20", and 30" water lines before installing the 54" Drainage Culvert at the intersection of Waipahu Street and Kunia Road.

CURVE DATA FOR 54" CULVERT

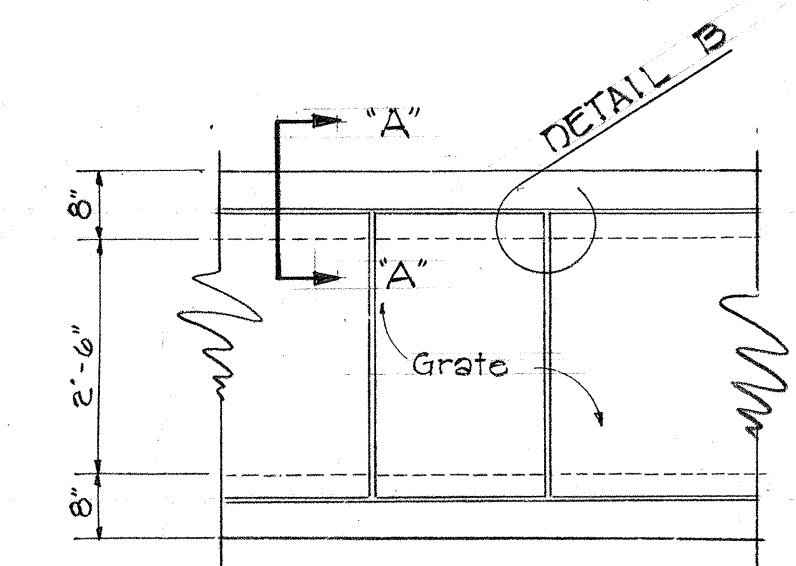
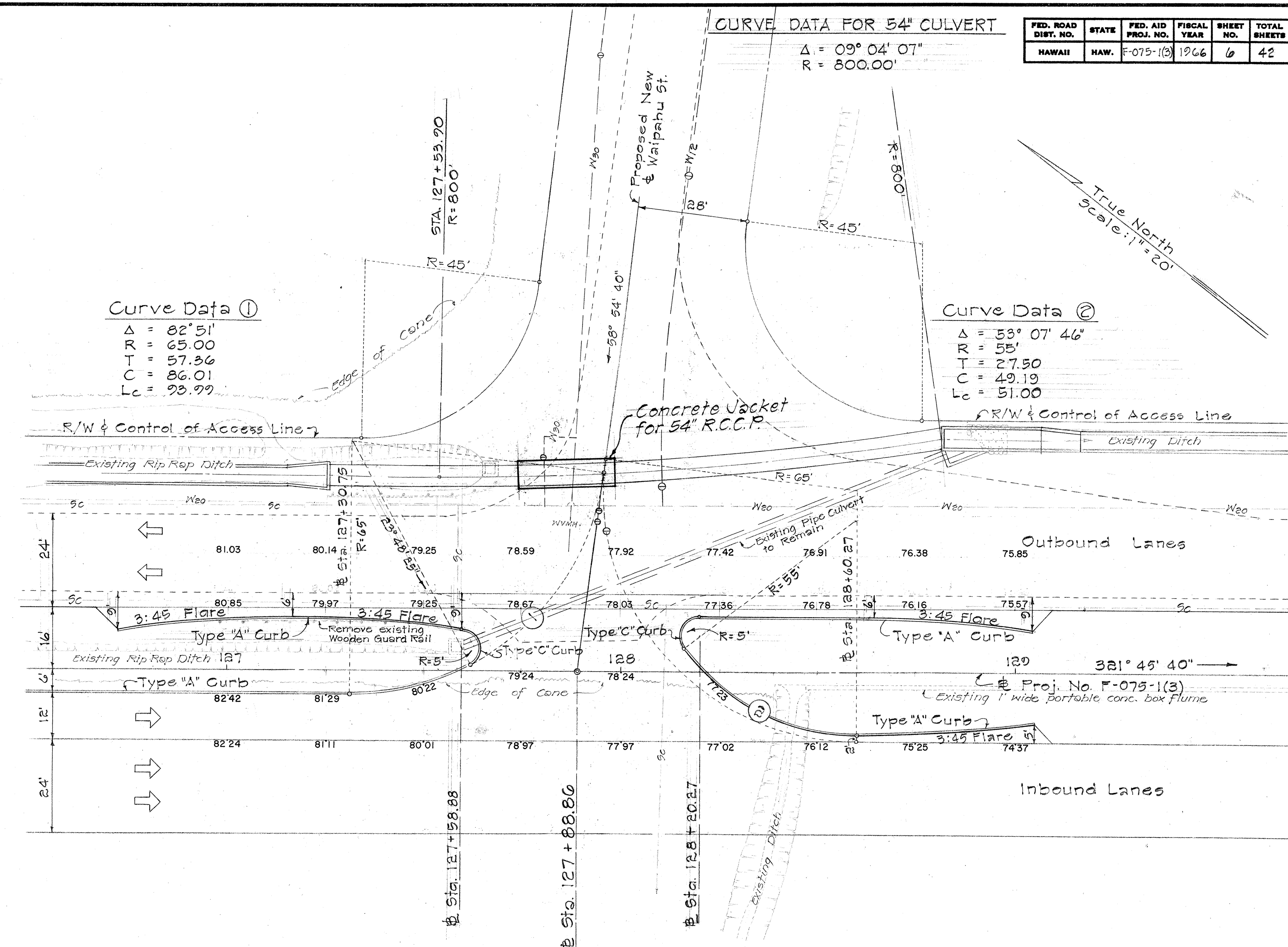
$\Delta = 09^\circ 04' 07"$
 $R = 800.00'$

Curve Data ①

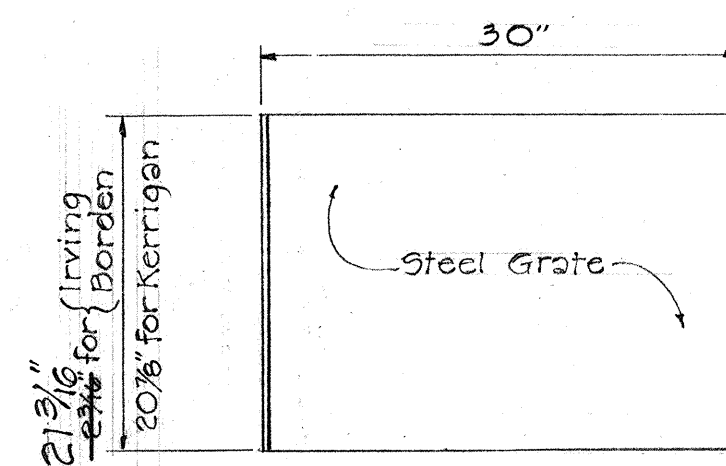
$\Delta = 82^\circ 51'$
 $R = 65.00'$
 $T = 57.36'$
 $C = 86.01'$
 $L_c = 93.99'$

Curve Data ②

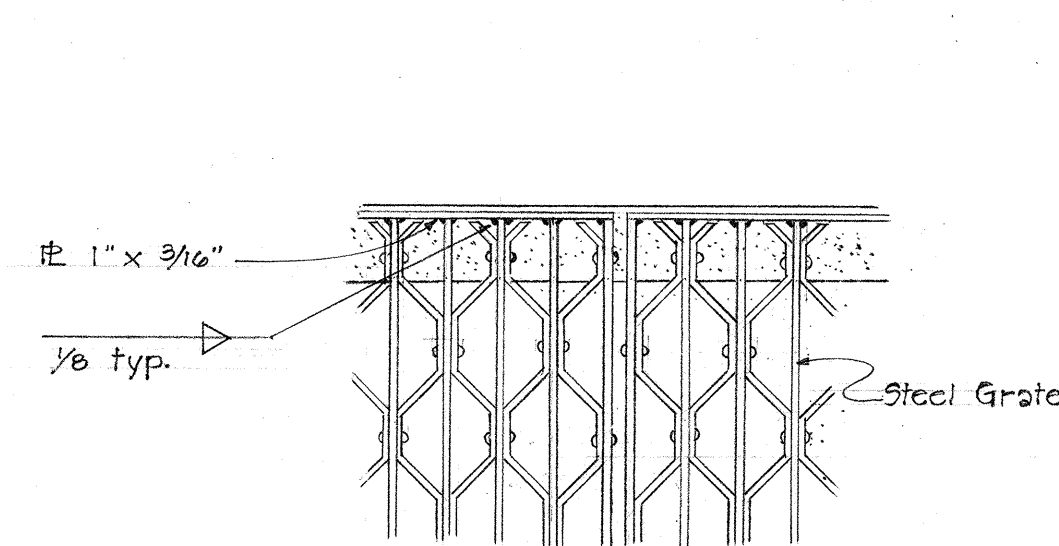
$\Delta = 53^\circ 07' 46"$
 $R = 55'$
 $T = 27.50'$
 $C = 49.19'$
 $L_c = 51.00'$



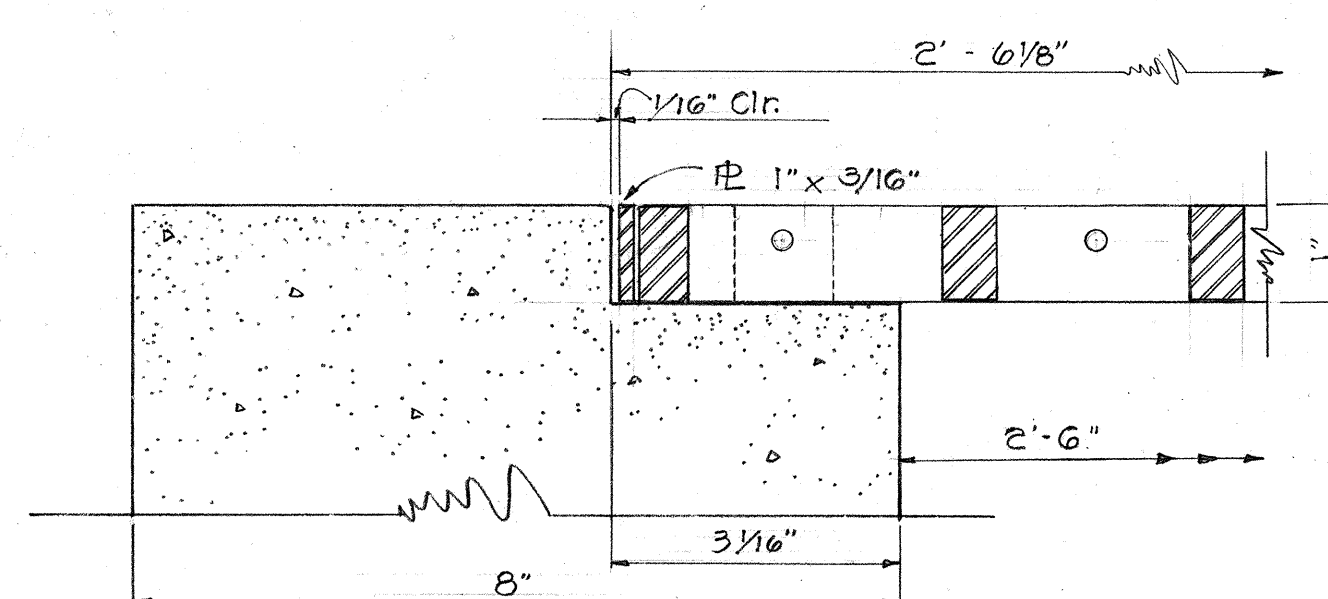
TYPICAL C.D.I. PLAN VIEW
 Not to Scale



STEEL GRATE PLAN
 Not to Scale



DETAIL "B"
 Not to Scale

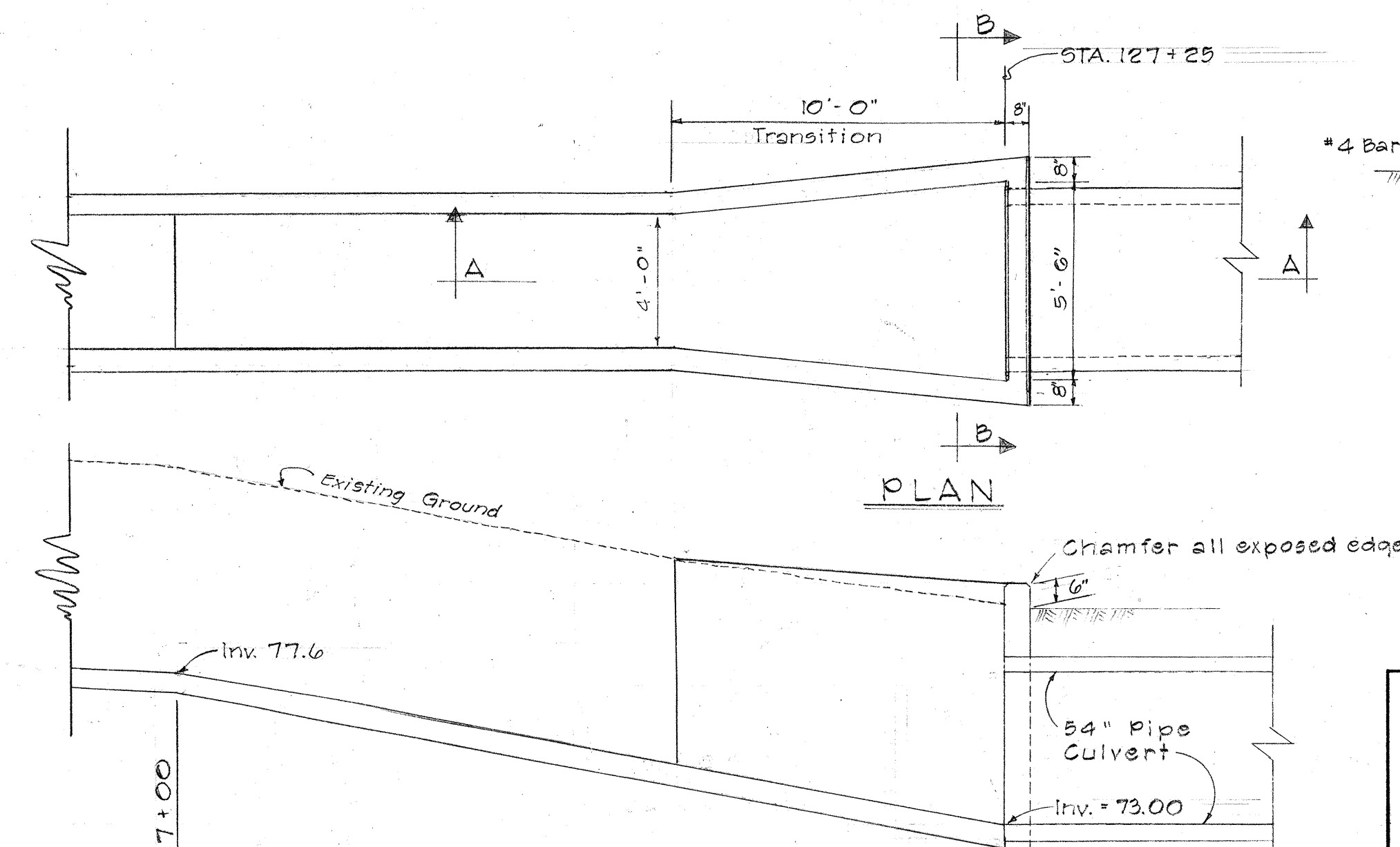


SECTION "A-A"
 Not to Scale

NOTE:

1. Steel Grates shall be: Irving, Type M or Type G, with 1" x 3/16" Bearing Bars; Borden, Type R or Type A with 1" x 3/16" Bearing Bars; Kerrigan, Type HDI-C-100, with 1 x 1/4" Bearing Bars; or approved equal.
2. Grating Pattern as shown is an illustration and may not necessarily look exactly like the types specified.

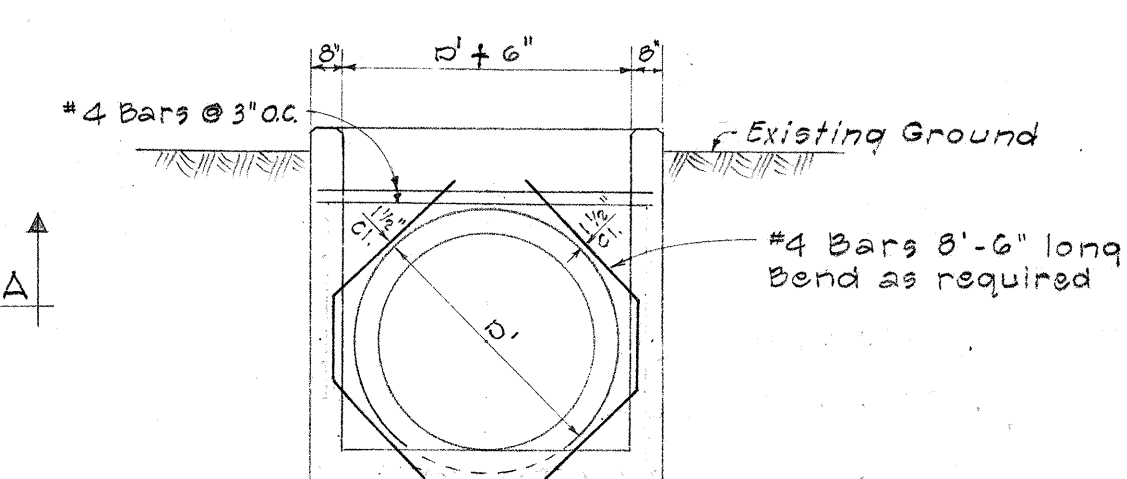
STEEL GRATE DETAILS



SECTION A-A

INLET DETAIL AT STA. 127+25 LT.

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



SECTION B-B

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DETAIL OF
 KUNIA ROAD AT
 WAIPAHU STREET

Scale: 1" = 20'

Aug. 1965

SHEET No. 1 OF 1 SHEETS