

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(28)	1984	5	34

True North
Scale: 1"=50'

Type G
Flare

M.L.
Sta. 53+00

BEGIN PROJECT
F.A.P. No. F-072-1(28)
Sta. 41+50

WE
WEO

To Kailua

45 Adjust
C&C Mon.

C&C Mon.

50

P.C.C. STA. 48+00.98
R=11,459.16
R=7,639.44

OLD KALANIANA'OLE ROAD

C&C
CORPORATION
YARD

CURVE DATA

$\Delta = 13^\circ 20' 00''$
 $R = 7,639.44'$
 $T = 892.92'$
 $C = 1,773.77'$
 $Lc = 1,777.78'$
 $Se = 0.02$

Sta 52+50 to Sta 69+75 Left

Reset existing guard rail height and
construct Type C & Type G Flares

Est. Quantity
1,725 lin. ft. Guard Rails
1 ea. Type C Flare
1 ea. Type G Flare

M.L.

71'x12'

140'x6'

43'x6'

189'x12'

125'x6'

SCC

60

65

115'x6'

53'x12'

125'x6'

M.L.
Sta. 68+00

327° 45' 00"

C&C Mon.

Construct
A.C. Berm

Remove existing guard rails
and relocate as shown.

Begin A.C. Berm
Sta. 65+00

P.T. STA. 65+78.76
R=7,639.44

Sta 54+25 to Sta. 70+00 Right

Remove existing guard rails and reconstruct
at location as shown. Type C and Type F
flares incidental to reconstructed guard rails.
Construct A.C. berm from Sta. 65+00 to Sta. 70+00.
See details on sht. no. 4

Est. Quantity
1,575 lin. ft. Reconstructed Guard Rails
500 lin. ft. A.C. Berm

Sta 67+50 to Sta 69+40± Right

Repair pavement cracks with slurry seal
crack filler. See Section 404-Slurry Seal
of the Special Provisions.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PLAN

KALANIANA'OLE HIGHWAY RESURFACING

C&C Corporation Yard
Towards Waimanalo

F.A. PROJECT No. F-072-1(28)

Scale: 1"=50' Date: Apr. 1984

SHEET NO. 1 OF 4 SHEETS

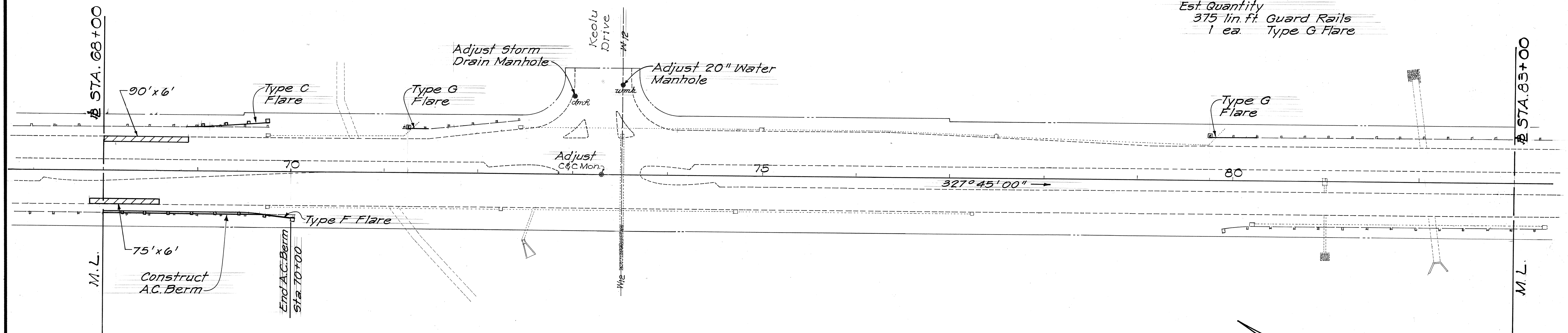
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(28)	1984	6	34

Sta. 71+25 to Sta. 72+50 Left
Reset existing guard rail height and construct Type G Flare

Est. Quantity
125 lin. ft. Guard Rails
1 ea. Type G Flare

Sta. 79+75 to Sta. 83+50 Left
Reset existing guard rail height and construct Type G flare

Est. Quantity
375 lin. ft. Guard Rails
1 ea. Type G Flare



Sta. 83+50 to Sta. 84+75 Left
Install guard rail, type 3 single with steel post

Est. Quantity
125 lin. ft. Guard Rails

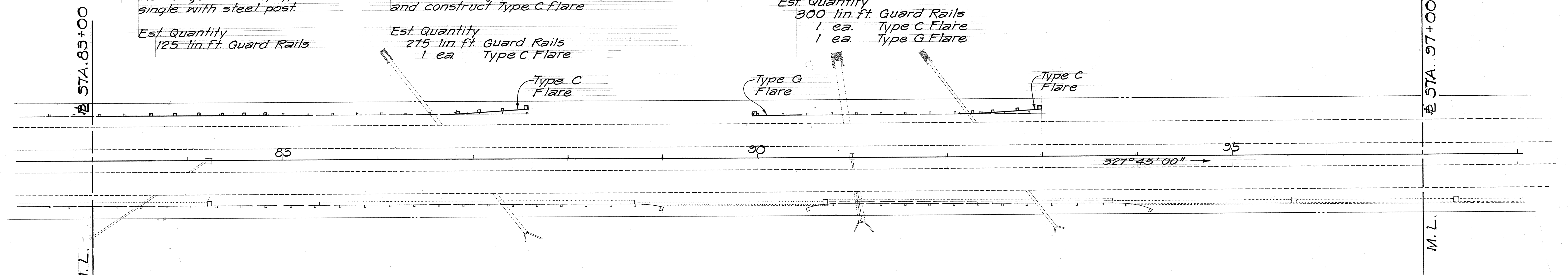
Sta. 84+75 to Sta. 87+50 Left
Reset existing guard rail height and construct Type C flare

Est. Quantity
275 lin. ft. Guard Rails
1 ea. Type C Flare

Sta. 90+00 to Sta. 93+00 Left

Reset existing guard rails height and construct Type C and Type G flare

Est. Quantity
300 lin. ft. Guard Rails
1 ea. Type C Flare
1 ea. Type G Flare



True North
Scale: 1"=50'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

APPROVED: Date: 5-8-84

R. Ugato
Chief, Planning & Engineering, BWS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
PLAN
KALANIANA'OLE HIGHWAY RESURFACING
C & C Corporation Yard
Towards Waimanalo
F.A. PROJECT No. F-072-1(28)
Scale: 1"=50' Date: Apr. 1984
SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(28)	1984	7	34

☯ CURVE DATA

$\Delta = 10^{\circ}00'00''$
 $R = 11,459.16'$
 $T = 1,002.55'$
 $C = 1,997.46'$
 $Lc = 2,000.00'$
 $Se = 0.02$

True North
Scale: 1"=50'

Sta 99+25 to Sta 101+75 Left

Reset existing guard rails height and construct Type C and Type G Flares

Est. Quantity
 250 lin. ft. Guard Rails
 1 ea Type C Flare
 1 ea Type G Flare

Sta 99+20 to Sta 103+55± Right

Repair pavement cracks with slurry seal crack filler. See section 404-Slurry Seal of the Special Provisions.

Sta 122+00 Left

Construct Type F Flare
 Est. Quantity
 1 ea Type F Flare

Sta 115+25 to Sta 117+75 Left

Remove existing guard rails & A.C. Berm.
 Construct new A.C. Berm and reconstruct guard rails. Type C and Type G flares and swale across driveway incidental to reconstructed guard rails. See detail sht. no. 4

Est. Quantity
 250 lin. ft. Reconstructed Guard Rails
 290 lin. ft. A.C. Berm

Sta 98+95 to Sta 105+45 Right

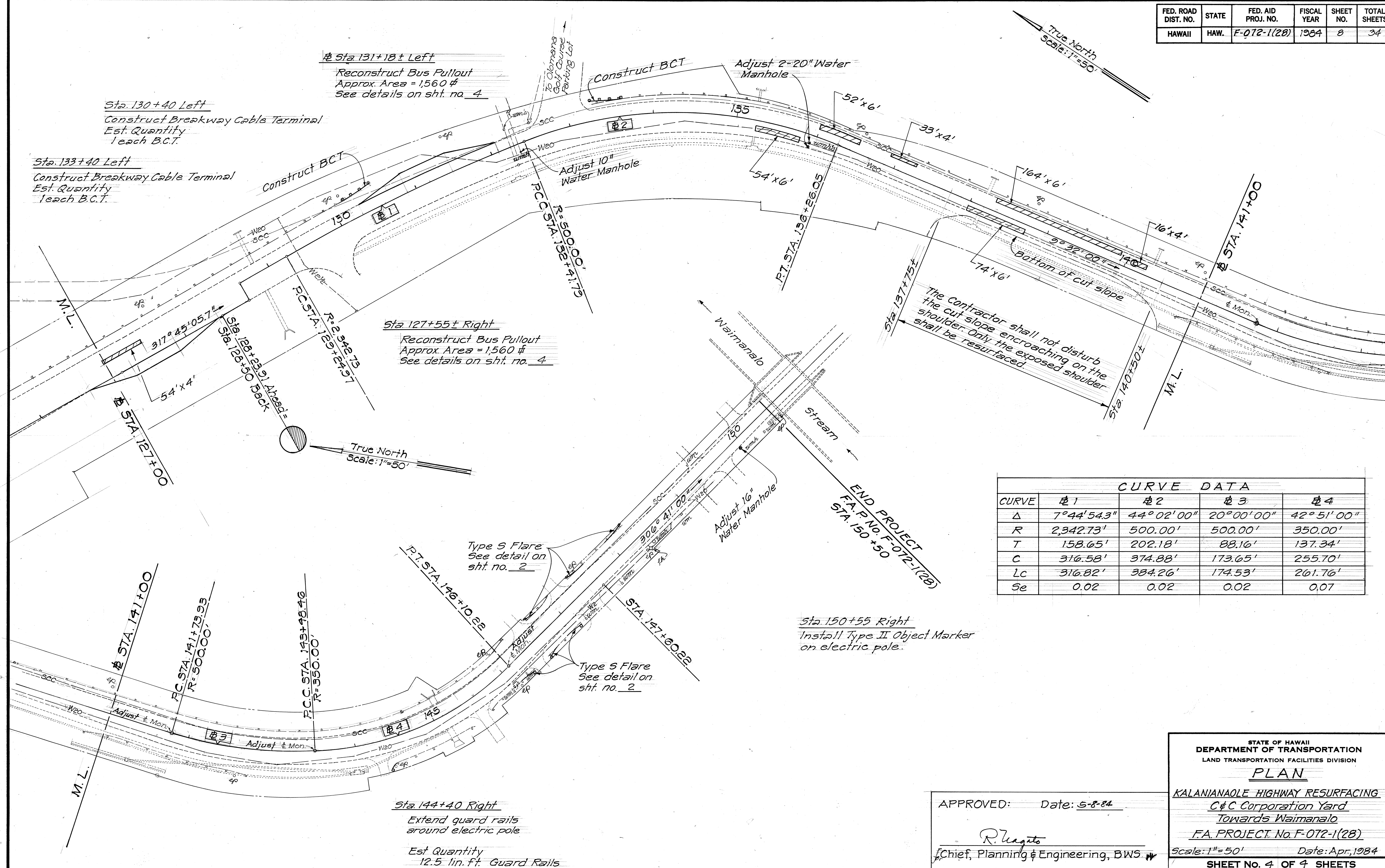
Remove existing guard rails and reconstruct at location as shown.
 Construct A.C. berm. Type C and Type F flares incidental to reconstructed guard rails. See detail on sht. no. 4

Est. Quantity
 650 lin. ft. Reconstructed Guard Rails
 550 lin. ft. A.C. Berm

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
PLAN
 KALANIANA'OLE HIGHWAY RESURFACING
 C&C Corporation Yard
 Towards Waimanalo
 F.A. PROJECT No. F-072-1(28)
 Scale: 1"=50' Date: Apr. 1984
 SHEET No. 3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-072-1(28)	1984	8	34



CURVE DATA				
CURVE	Δ 1	Δ 2	Δ 3	Δ 4
Δ	7°44'54.3"	44°02'00"	20°00'00"	42°51'00"
R	2,342.73'	500.00'	500.00'	350.00'
T	158.65'	202.18'	88.16'	137.34'
C	316.58'	374.88'	173.65'	255.70'
LC	316.82'	384.26'	174.53'	261.76'
Se	0.02	0.02	0.02	0.07

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

APPROVED: Date: 5-8-84
 R. Hagito
 Chief, Planning & Engineering, BWS

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
PLAN
 KALANIANA'OLE HIGHWAY RESURFACING
 C&C Corporation Yard
 Towards Waimanalo
 F.A. PROJECT No. F-072-1(28)
 Scale: 1"=50' Date: Apr. 1984
 SHEET NO. 4 OF 4 SHEETS