

PLAN	DATE	BY	DATE
SURVEYED			
NOTE BOOK			
NO.			

PROFILE	DATE	BY	DATE
SURVEYED			
NOTE BOOK			
NO.			

ESTIMATED QUANTITIES	Sta. 10+25	Sta. 12+81	Sta. 12+96	Sta. 15+30	Sta. 15+50	Sta. 19+32	Sta. 33+40
Reconstructing CB into MH With New Type P CI Frame & Cover	1		1	1			1
Type B Catch Basin							1
Type C Catch Basin	1		1				
Type C-C-1 Catch Basin					1		
Reconstructing Catch Basin						1	1
Reconstructing Sewer Manhole		1					

CURVE DATA
 $\Delta = 32^\circ 32' 00''$
 $R = 1500.00'$
 $T = 437.68'$
 $C = 840.32'$
 $L_c = 891.72'$

Sta. 12+96
 Reconstruct existing catch basin into manhole. Install Type P Cast Iron Frame and Cover. See Sheet 72 for details.
 Construct new Type C Catch Basin over existing 30" concrete drainage pipe.
 Match catch basin invert to fit exist'g drainage pipe invert. Reuse Type B Cast Iron Frame and Cover from existing catch basin. Sencut and remove existing pipe from within new catch basin.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-063-1(17)	1984	54	156

BEGIN PROJECT NO. F-063-1(17)
 STA. 7+15.32

Sta. 10+25
 Reconstruct existing catch basin into manhole. Install Type P Cast Iron Frame and Cover. See Sheet 72 for details.
 Construct new Type C Catch Basin. Reuse Type B Cast Iron Frame and Cover from existing catch basin.

Top Inv. -129.0
 Install new 24-Inch R.C. Pipe Cl. III

Sta. 8+00±
 Adjust Storm Drain Manhole Frame and Cover.

B.M. "D" on C.B. corner
 Elev. = 136.21

Sta. 12+81±
 Reconstruct Existing Sewer Manhole. Reuse Existing Frame and Cover. See Sheet 73 for details.

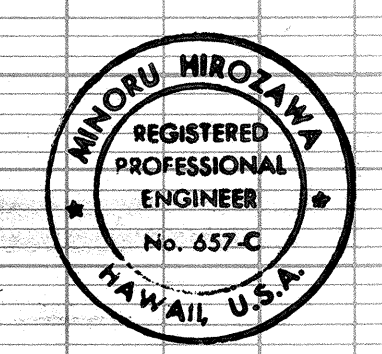
B.M. Monument
 Top 1 1/2" pipe
 Elev. = 146.54

Kalihi Street

Makuahe Street

Original & Profile of North Lane

Beg. Proj. No. F-063-1(17)
 STA. 7+15.32



THIS WORK WAS PREPARED BY
 ME OR UNDER MY SUPERVISION
 [Signature]

APPROVED: DATE 2/10/84
 [Signature]
 Chief, Div. of Wastewater Management
 Dept. of Public Works

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-063-1(17)	1984	55	156

Sta 15+30

Reconstruct existing catch basin into manhole. Install Type P Cast Iron Frame and Cover. See Sheet 72 for details.

Sta 15+50

Construct new Combination Type C & C-1 Catch Basin. Reuse Type B Cast Iron Frame and Cover from existing catch basin. See Sheet 71 for details.

Sta 19+32

Reconstruct existing catch basin. Portion of existing catch basin to remain. Construct partial Type C Catch Basin addition. Reuse Type B Cast Iron Frame and Cover. See Sheet 72 for details.

Sta 15+00± to Sta 22+60±

Construct 6' wide Reinforced Concrete Walkway

Est. Quantity:

Reinforced Concrete Walkway 530 sq. yd.

Sta 24+38± to Sta 26+10±

Construct 6' wide Reinforced Concrete Walkway or as shown on Detail Plan of Roadway.

Est. Quant.

Reinforced Concrete Walkway 119 sq. yd.

Match existing Concrete Walkway elevation at Sta. 24+38±. See Sheet 60 for variable width section of walkway. 60

Sta 24+38± to Sta 26+40±

Remove existing concrete walkway and CRM walls. Drainage systems under walkway to remain in service. Remove all interior fences.

Sta 29+25± (32'± Left)

Adjust Sewer Manhole Frame and Cover. Contractor to locate and adjust to new finish grade.

Sta 25+53±

Adjust Storm Drain Manhole Frame and Cover. Existing Elev. = 151.24 New Elev. = 154.64

Sta 25+55±

Adjust Sewer Manhole Frame and Cover. Existing Elev. = 148.03 New Elev. = 153.32

Sta 22+90±

Adjust 1-20" WMH Frame and Cover.

Existing Walkway to remain.

Pedestrian Structure

BM "D" on catch basin corner - Elev. = 149.97

182° 52'

Existing walkway to be removed

Remove existing CRM Wall.

Sta 24+02±

Adjust 1-20" Water Manhole Frame and Cover.

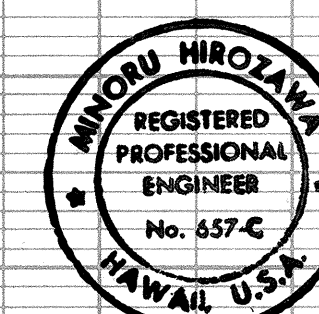
Sta 17+25±

Adjust Storm Drain Manhole Frame and Cover. Install Type P Cast Iron Frame and Cover. Salvage existing frame and cover.

Sta 16+40± to Sta 27+50± (Right)

Remove existing A.C. and Concrete Walkways. Grade existing ground to drain. Remove all interior fences. Drainage system at bridge to remain in service. Portions of the CRM wall shall be removed as directed by the Engineer.

Original & Profile of North Lane



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
M. Hirokawa
Signature

APPROVED: DATE 2-7-84

R. Nagata
Chief, Planning & Engineering, BWS

APPROVED: DATE 2/10/84

A. Uyama
Chief, Div. of Wastewater Management
Dept. of Public Works

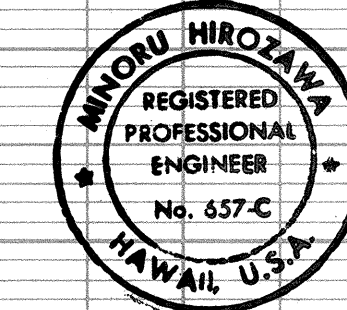
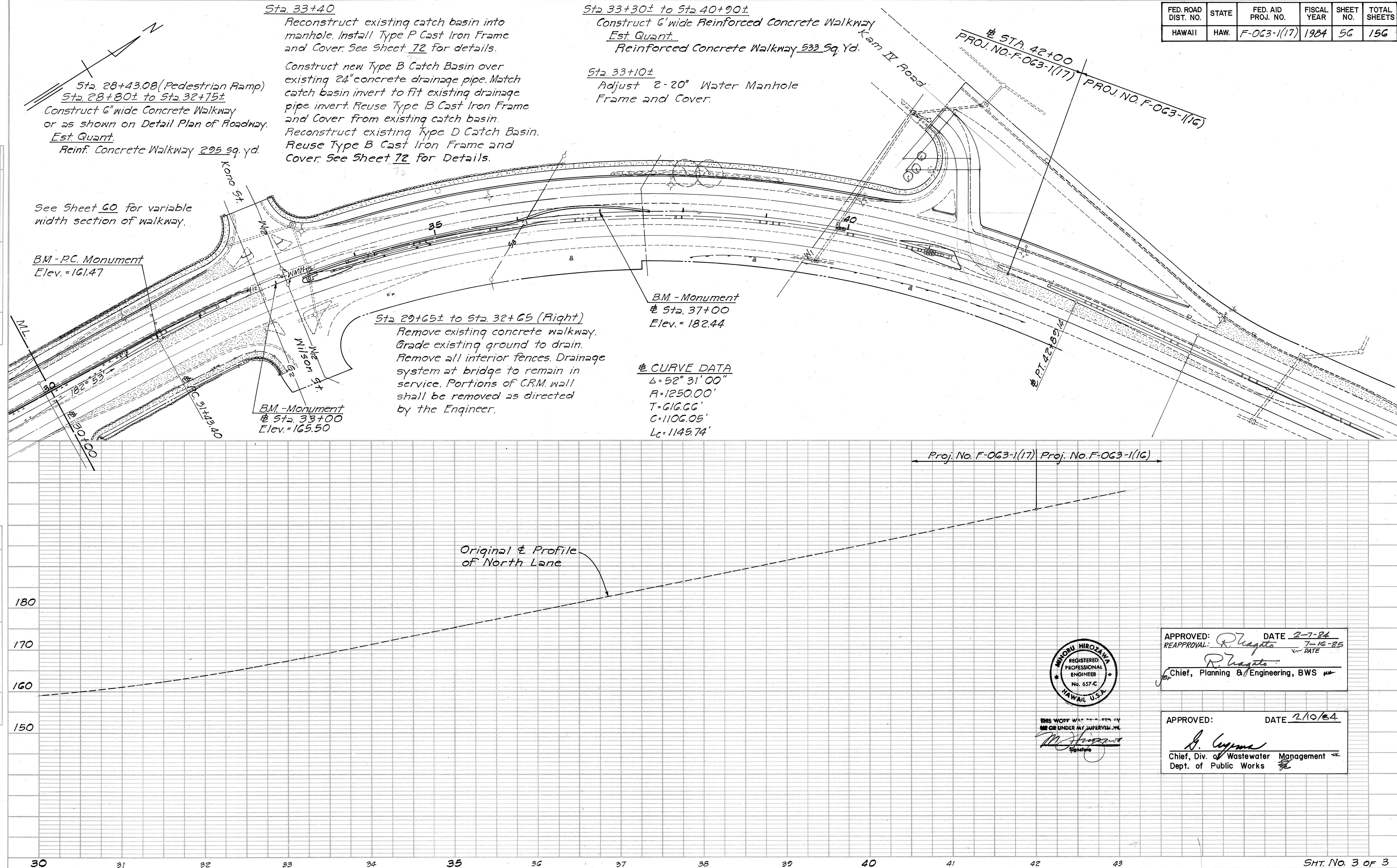
SHT. No. 2 of 3

55

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-063-1(17)	1984	56	156

PLAN	DATE	BY	DATE	BY
SURVEYED				
NOTE BOOK				
ALIGNED CHECKED				
RT. OF WAY CHECKED				
NO.				

PROFILE	DATE	BY	DATE	BY
SURVEYED				
NOTE BOOK				
GRADES CHECKED				
B. M. S. NOTED				
STRUCTURE NOTATIONS CHECKED				
NO.				



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Signature

APPROVED: *R. Nagata* DATE 2-7-84
REAPPROVAL: *R. Nagata* 7-16-85 DATE
Chief, Planning & Engineering, BWS

APPROVED: *G. Uyama* DATE 2/10/84
Chief, Div. of Wastewater Management
Dept. of Public Works