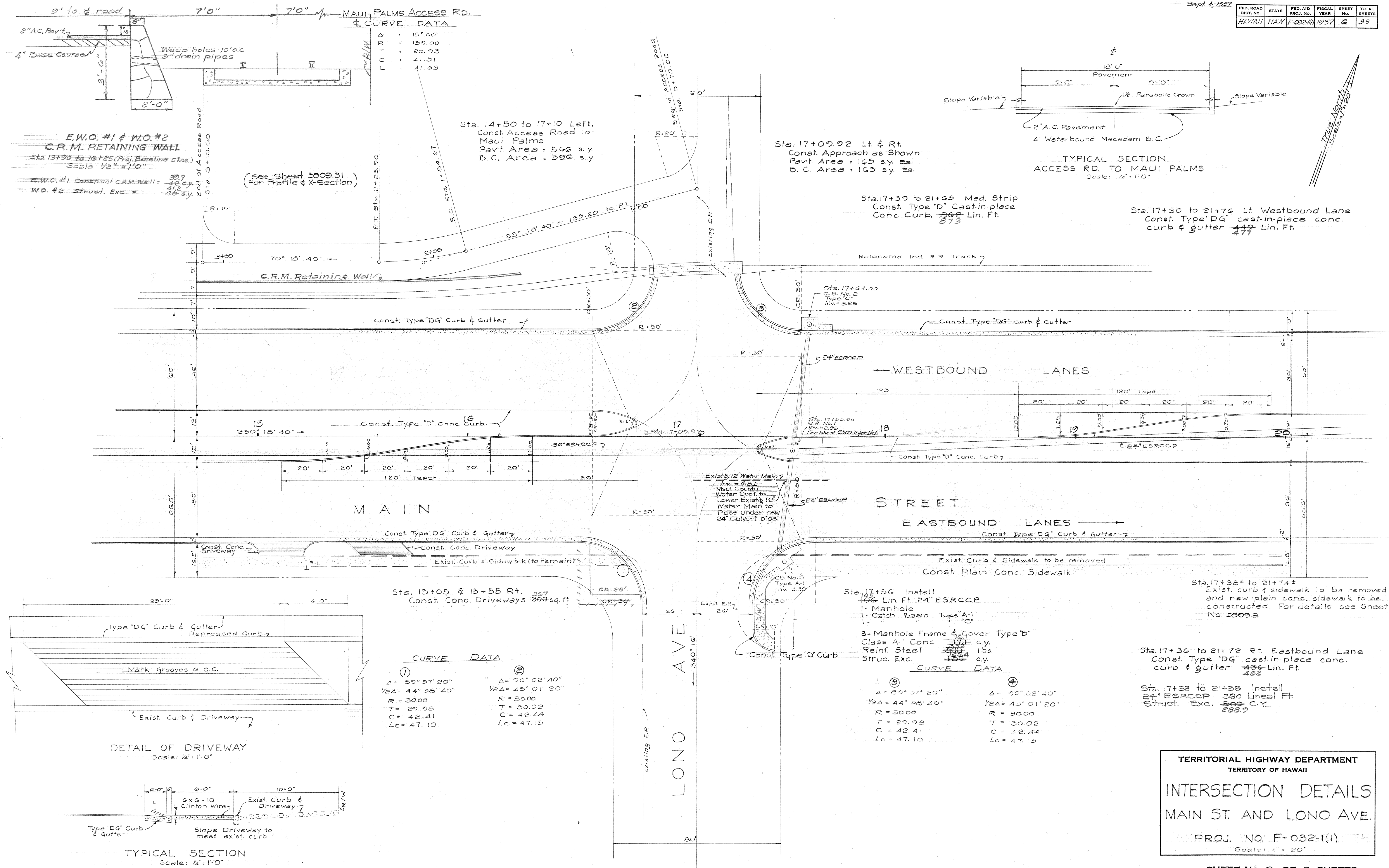


Sept. 4, 1937

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-032-1(1)	1937	6	33



DATE	DESIGNED BY	CHECKED BY
PLANNED BY	TRACED BY	QUANTITIES BY
NOTE BOOK	NO.	CHECKED BY

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

INTERSECTION DETAILS
MAIN ST. AND LONO AVE.

PROJ. NO. F-032-1(1)
Scale: 1" = 20'

SHEET NO. 2 OF 6 SHEETS

5909.6

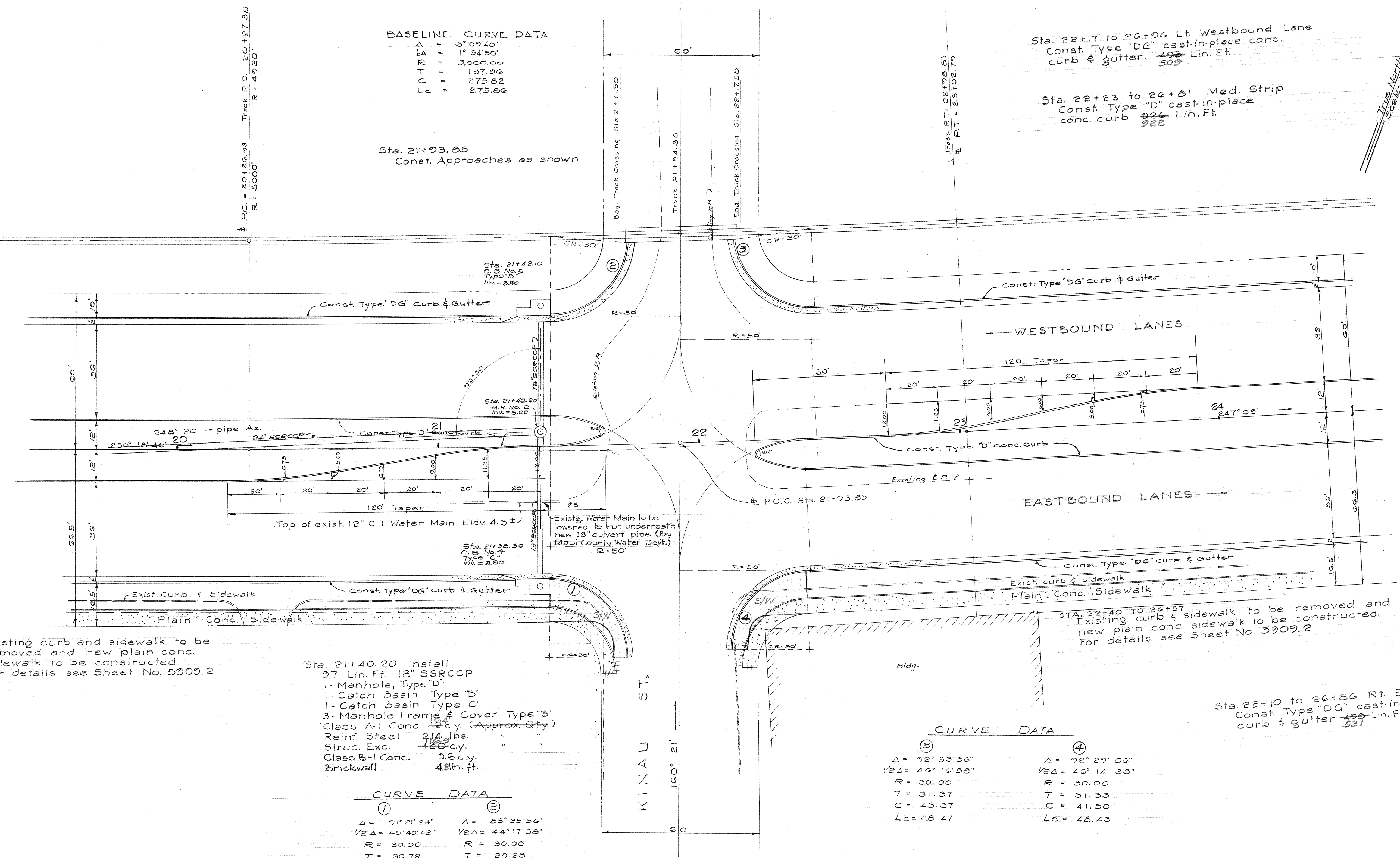
BASILINE CURVE DATA
 $\Delta = 3^\circ 09' 40''$
 $\frac{1}{2}\Delta = 1^\circ 34' 50''$
 $R = 3,000.00$
 $T = 137.96$
 $C = 275.82$
 $Lc = 275.82$

Sta. 21+23.85
 Const. Approaches as shown

Sta. 22+17 to 26+26 Lt. Westbound Lane
 Const. Type "DG" cast-in-place conc. curb & gutter. 495 Lin. Ft.

Sta. 22+23 to 26+31 Med. Strip
 Const. Type "D" cast-in-place conc. curb 222 Lin. Ft.

True North
 Scale: 1"=20'



Existing curb and sidewalk to be removed and new plain conc. sidewalk to be constructed. For details see Sheet No. 5909.2

Sta. 21+40.20 Install
 97 Lin. Ft. 18" SSRCCP
 1. Manhole, Type "D"
 1. Catch Basin Type "B"
 1. Catch Basin Type "C"
 3. Manhole Frame & Cover Type "B"
 Class A-1 Conc. 12 c.y. (Approx. Qty.)
 Reinf. Steel 214 lbs.
 Struc. Exc. 120 c.y.
 Class B-1 Conc. 0.6 c.y.
 Brickwall 48 lin. ft.

CURVE DATA

①	②
$\Delta = 71^\circ 21' 24''$	$\Delta = 88^\circ 35' 56''$
$\frac{1}{2}\Delta = 35^\circ 40' 42''$	$\frac{1}{2}\Delta = 44^\circ 17' 58''$
$R = 30.00$	$R = 30.00$
$T = 30.72$	$T = 27.28$
$C = 42.93$	$C = 41.70$
$Lc = 47.53$	$Lc = 46.37$

CURVE DATA

③	④
$\Delta = 72^\circ 33' 56''$	$\Delta = 72^\circ 27' 06''$
$\frac{1}{2}\Delta = 36^\circ 16' 58''$	$\frac{1}{2}\Delta = 36^\circ 13' 33''$
$R = 30.00$	$R = 30.00$
$T = 31.37$	$T = 31.33$
$C = 43.37$	$C = 41.50$
$Lc = 48.47$	$Lc = 48.43$

Sta. 22+10 to 26+36 Rt. Eastbound Lanes
 Const. Type "DG" cast-in-place conc. curb & gutter 495 Lin. Ft.

Sta. 22+40 to 26+37
 Existing curb & sidewalk to be removed and new plain conc. sidewalk to be constructed. For details see Sheet No. 5909.2

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII

INTERSECTION DETAILS
 MAIN ST. AND KINAU ST.

PROJ. No. F-032-1(1)
 Scale: 1"=20'

SHEET No. 3 OF 6 SHEETS

5909.7

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

Sta. 26+62.50 to 28+32 Lt. Westbound Lanes

Install 24" ESRCCP 166 Lin. Ft.
1- Catch Basin Type "B"
1- Manhole Frame & Cover Type "B"
Class A-1 Conc. = 4 c.y.
Reinf. Steel = 95 lbs.
Struct. Exc. = 150 c.y.

Const. Access Road. See Plan & Profile Sheet 5909.4

Sta. 28+35 to 30+68 Lt.

Install 24" ESRCCP 230 Lin. Ft.
1- Catch Basin Type "A"
1- Manhole Frame & Cover Type "B"
Class A-1 Conc. = 7.5 c.y.
Reinf. Steel = 125 lbs.
Struct. Exc. = 220 c.y.

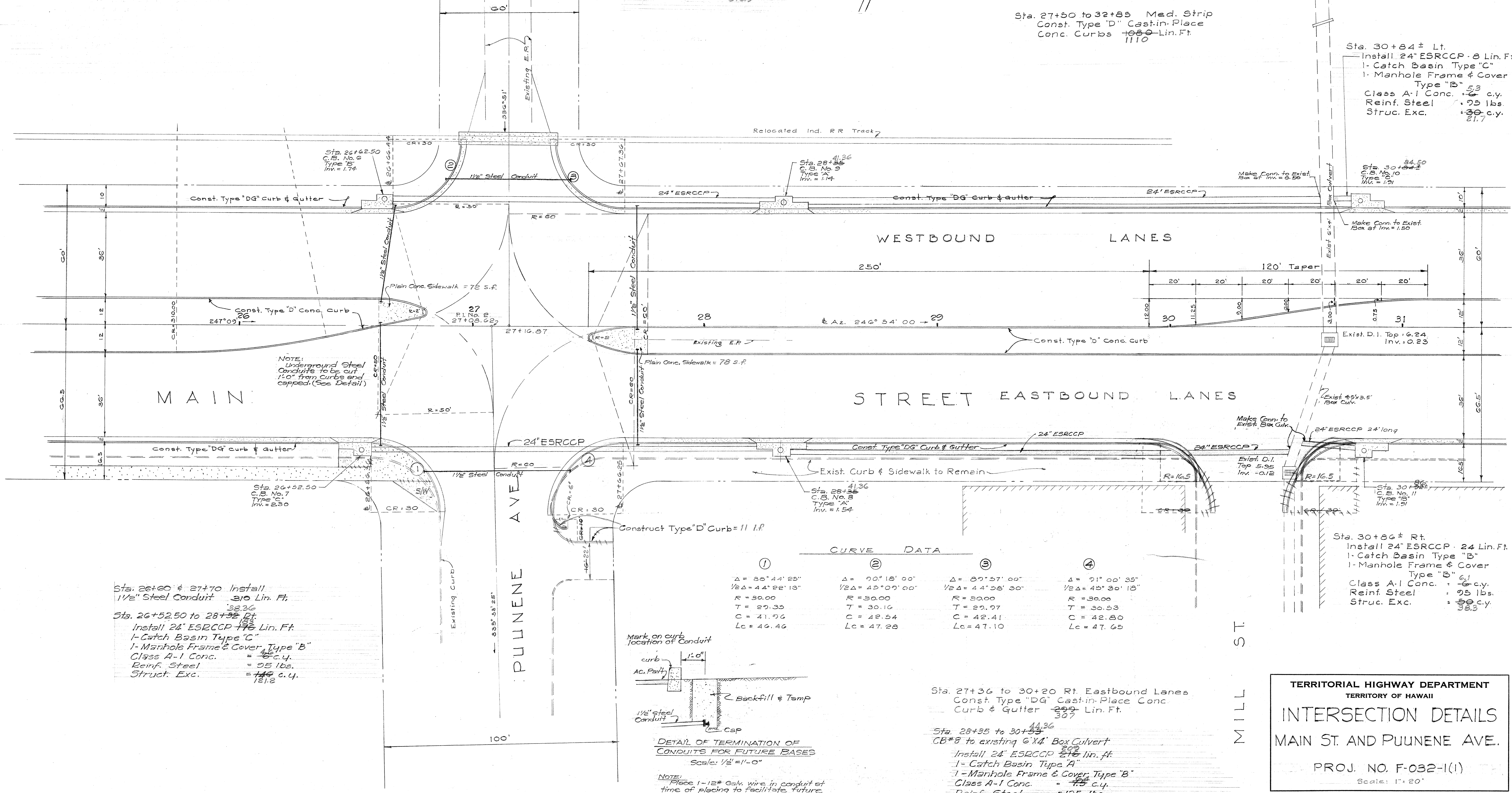
Sta. 27+37 to 32+27 Lt. Westbound Lanes
Const. Type "DG" Cast-in-Place Conc. Curb & Gutter 557 Lin. Ft.

Sta. 27+50 to 32+85 Med. Strip
Const. Type "D" Cast-in-Place Conc. Curbs 1110 Lin. Ft.

Sta. 30+84 Lt.
Install 24" ESRCCP 8 Lin. Ft.
1- Catch Basin Type "C"
1- Manhole Frame & Cover Type "B"
Class A-1 Conc. = 6 c.y.
Reinf. Steel = 95 lbs.
Struct. Exc. = 30 c.y.

Sta. 30+84 Rt.
Install 24" ESRCCP 8 Lin. Ft.
1- Catch Basin Type "C"
1- Manhole Frame & Cover Type "B"
Class A-1 Conc. = 6 c.y.
Reinf. Steel = 95 lbs.
Struct. Exc. = 30 c.y.

Sta. 30+86 Rt.
Install 24" ESRCCP 24 Lin. Ft.
1- Catch Basin Type "B"
1- Manhole Frame & Cover Type "B"
Class A-1 Conc. = 6 c.y.
Reinf. Steel = 95 lbs.
Struct. Exc. = 30 c.y.



CURVE DATA

①	②	③	④
$\Delta = 35^{\circ}44'25''$ $\frac{1}{2}\Delta = 17^{\circ}52'12.5''$ $R = 30.00$ $T = 27.35$ $C = 41.76$ $Lc = 46.46$	$\Delta = 70^{\circ}18'00''$ $\frac{1}{2}\Delta = 35^{\circ}09'00''$ $R = 30.00$ $T = 30.16$ $C = 42.54$ $Lc = 47.28$	$\Delta = 87^{\circ}57'00''$ $\frac{1}{2}\Delta = 43^{\circ}58'30''$ $R = 30.00$ $T = 27.97$ $C = 42.41$ $Lc = 47.10$	$\Delta = 71^{\circ}00'35''$ $\frac{1}{2}\Delta = 35^{\circ}30'17.5''$ $R = 30.00$ $T = 30.33$ $C = 42.80$ $Lc = 47.65$

Sta. 26+60 to 27+70 Install 1 1/2" Steel Conduit 210 Lin. Ft.
Sta. 26+52.50 to 28+32 Rt. Install 24" ESRCCP 132 Lin. Ft.
1- Catch Basin Type "C"
1- Manhole Frame & Cover Type "B"
Class A-1 Conc. = 4 c.y.
Reinf. Steel = 95 lbs.
Struct. Exc. = 140 c.y.

Sta. 27+36 to 30+20 Rt. Eastbound Lanes
Const. Type "DG" Cast-in-Place Conc. Curb & Gutter 307 Lin. Ft.

Sta. 28+35 to 30+55
CB#8 to existing 6"x4" Box Culvert
Install 24" ESRCCP 215 Lin. Ft.
1- Catch Basin Type "A"
1- Manhole Frame & Cover Type "B"
Class A-1 Conc. = 7.5 c.y.
Reinf. Steel = 125 lbs.
Struct. Exc. = 215 c.y.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
INTERSECTION DETAILS
MAIN ST. AND PUUNENE AVE.
PROJ. NO. F-032-1(1)
Scale: 1" = 20'

SHEET NO. 4 OF 6 SHEETS

5909.S

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

Revised Sept. 18, 1957

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-032-1(1)	1957	10	33

BASELINE CURVE DATA

Δ = 3° 54' 00"
 1/2 Δ = 1° 57' 00"
 R = 3000.00'
 T = 102.14'
 C = 204.16'
 Lc = 204.20'

Sta. 33+37 to 34+71 Lt. Westbound Lanes
 Const. Type "DG" Cast-in-Place Conc.
 Curb & Gutter 350 Lin. Ft.

Sta. 33+38 to 37+50 Med. Strip 831
 Const. Type "D" Cast-in-Place Conc. Curb 865 Lin. Ft.

Sta. 33+37 to 37+54 Const. Plain Conc. Sidewalk
 For Details See Sheet 5909.2

Sta. 36+58 Left to Sta. 37+00 Rt.
 Install 18" ESRCCP 96 Lin. Ft.
 Const. 1 Type "D" Catch Basin
 1 Type "B" Frame & Cover
 Class A-1 Conc. = 3.3 c.y.
 Reinf. Steel = 75.5 lb.
 Struct. Exc. = 45.5 c.y.

Install 36 Lin. Ft. 18" ESRCCP
 with C.D.I. and grating.
 Connect to C.B. No. 12.
 Class B-1 Conc. = 3.3 c.y.
 Struct. Exc. = 5.3 c.y.

Exist. R.R. Track and
 Switch to be relocated
 C.D.I. #2 Inv. = 3.58
 For det. see sht. 5909.11

Const. Type "D"
 Cast-in-Place Conc.
 Curb 102 Lin. Ft.

Remove existing Track Crossing and Construct
 New Conc. Track Crossing as per Detail on
 Sheet 5909.2.

Const. Plain Conc. Sidewalk

Const. Type "DG" Curb & Gutter

WESTBOUND LANES

Const. Type "D" Curb

Const. Type "DG" Curb & Gutter

EASTBOUND LANES

Const. Type "DG" Curb & Gutter

STREET

Grade at this Area to be Adjusted
 to Meet New Track Crossing

Remove existing track crossing
 and construct new conc. track crossing
 112.15 Lin. Ft. (For Detail See Sht. 5909.16A)

Exist. Barb-wire Fence to Remain

Sta. 37+53 Rt. to 38+00 Rt.
 Install 24" ESRCCP 47 Lin. Ft.
 Const. 1 Drop Intake with Type "C"
 C.I. Frame & Cover
 Class B-1 Conc. = 3 c.y.
 Emb. = 2.5 c.y.
 Struct. Exc. = 48.4

Sta. 37+76 Rt.
 Const. Approach as Shown
 Pavt. Area = 401 sq.
 B. C. Area = 416 sq.
 4" Base Course
 2" A. C. Pavt.
 Emb. = 2.5 c.y.
 Type "D" C.I.P. Curb 105 Lin. Ft.

Sta. 38+00 Rt.
 Const. 1 Type "D" Manhole with Type "B" Cast
 Iron Frame & Cover
 Install 18" ESRCCP 54 Lin. Ft.
 1 Conc. Headwall
 Class B-1 Conc. = 3 c.y.
 Reinf. Steel = 75.5 lb.
 G. R. R. Wall = 3.3 c.y.
 Struct. Exc. = 5.3 c.y.
 Brickwall = 5.3 Lin. Ft.

Sta. 37+00 Rt.
 Install 24" ESRCCP 55 Lin. Ft.
 Construct 1 Type "D" Catch Basin
 1 Type "B" Frame & Cover
 Class A-1 Conc. = 3.3 c.y.
 Reinf. Steel = 75.5 lb.
 Struct. Exc. = 45.5 c.y.

Sta. 38+00 Rt. to 38+60 Install
 24" ESRCCP 60 Lin. Ft.
 Struct. Exc. = 40 c.y.

CURVE DATA

①	②	③	④
Δ = 3° 54' 00"	Δ = 3° 54' 00"	Δ = 3° 54' 00"	Δ = 1° 57' 24"
1/2 Δ = 1° 57' 00"	1/2 Δ = 1° 57' 00"	1/2 Δ = 1° 57' 00"	1/2 Δ = 0° 58' 42"
R = 1200.00	R = 3000.00	R = 2000.00	R = 3008.00
T = 40.86	T = 102.14	T = 68.09	T = 51.37
C = 81.67	C = 204.16	C = 136.11	C = 102.72
Lc = 81.68	Lc = 204.20	Lc = 136.14	Lc = 102.72

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII

DETAIL OF ROADWAY
 MAIN STREET
 PROJ. No. F-032-1(1)
 Scale: 1" = 20'

SHEET NO. 6 OF 6 SHEETS

5909.10

DATE	DESIGNED BY	TRACED BY	QUANTITIES BY	CHECKED BY