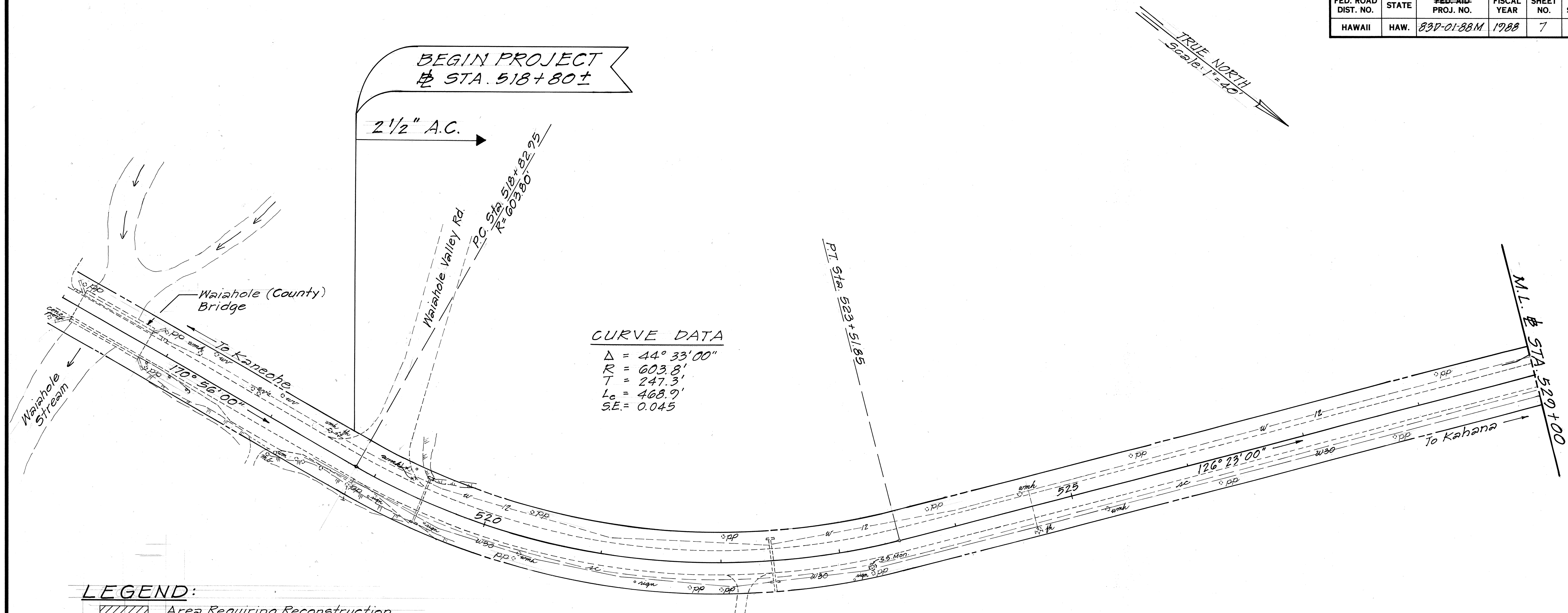


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-88M	1988	7	35



LEGEND:

- ////// Area Requiring Reconstruction of Weakened Pavement
- PP Existing Utility Pole
- W30- Existing Water Line
- umh Existing Water Manhole
- wv Existing Water Valve
- ◆ fh Existing Fire Hydrant
- um Existing Water Meter
- ⊙ Existing State Survey Disk Monument
- fa- Existing U.S. Navy Fuel Line
- sb- Existing Sewer Line
- ac- Existing U.S. Army Signal Corps Cable

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		
NO.		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Rd. to Kualoa
Proj. No. 83D-01-88M

Scale: 1"=40' Date: Oct, 1987
SHEET No. 1 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-88M	1988	8	35

CURVE DATA

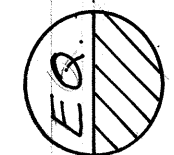
$\Delta = 31^{\circ} 34' 00''$
 $R = 1910.08'$
 $T = 539.9'$
 $L_c = 1052.2'$
 $S.E. = 0$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Rd. to Kualoa
Proj. No. 83D-01-88M

Scale: 1" = 40' Date: Oct, 1987
SHEET No. 2 OF 9 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	



PC Sta. 546+85.3
R=3437.87'

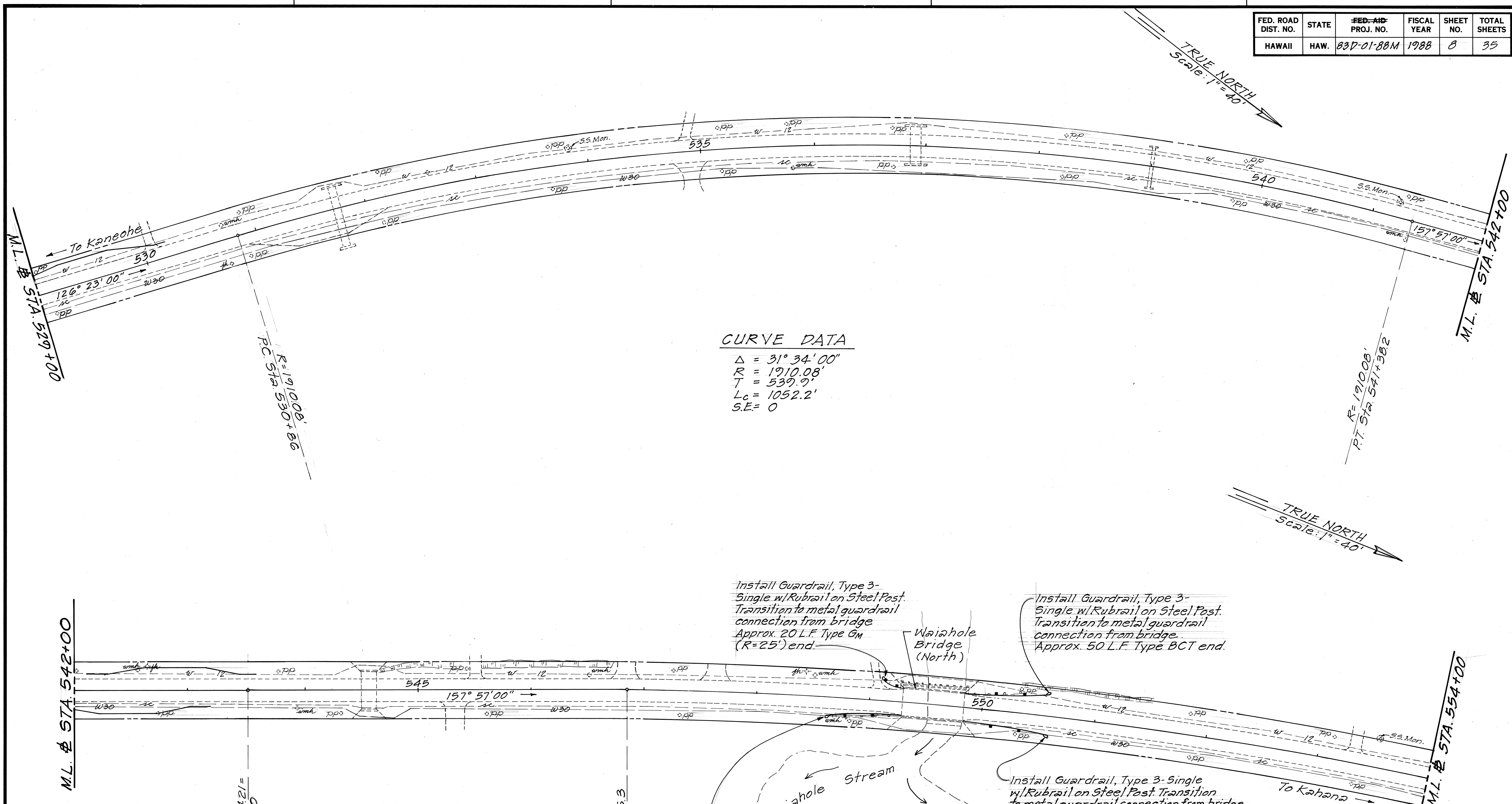
Install Guardrail, Type 3-
 Single w/ Rubrail on Steel Post.
 Transition to metal guardrail
 connection from bridge
 Approx. 20 L.F. Type G_M
 (R=25') end.

Waiahole
 Bridge
 (North)

Install Guardrail, Type 3-
 Single w/ Rubrail on Steel Post.
 Transition to metal guardrail
 connection from bridge.
 Approx. 50 L.F. Type BCT end.

Waiahole Stream

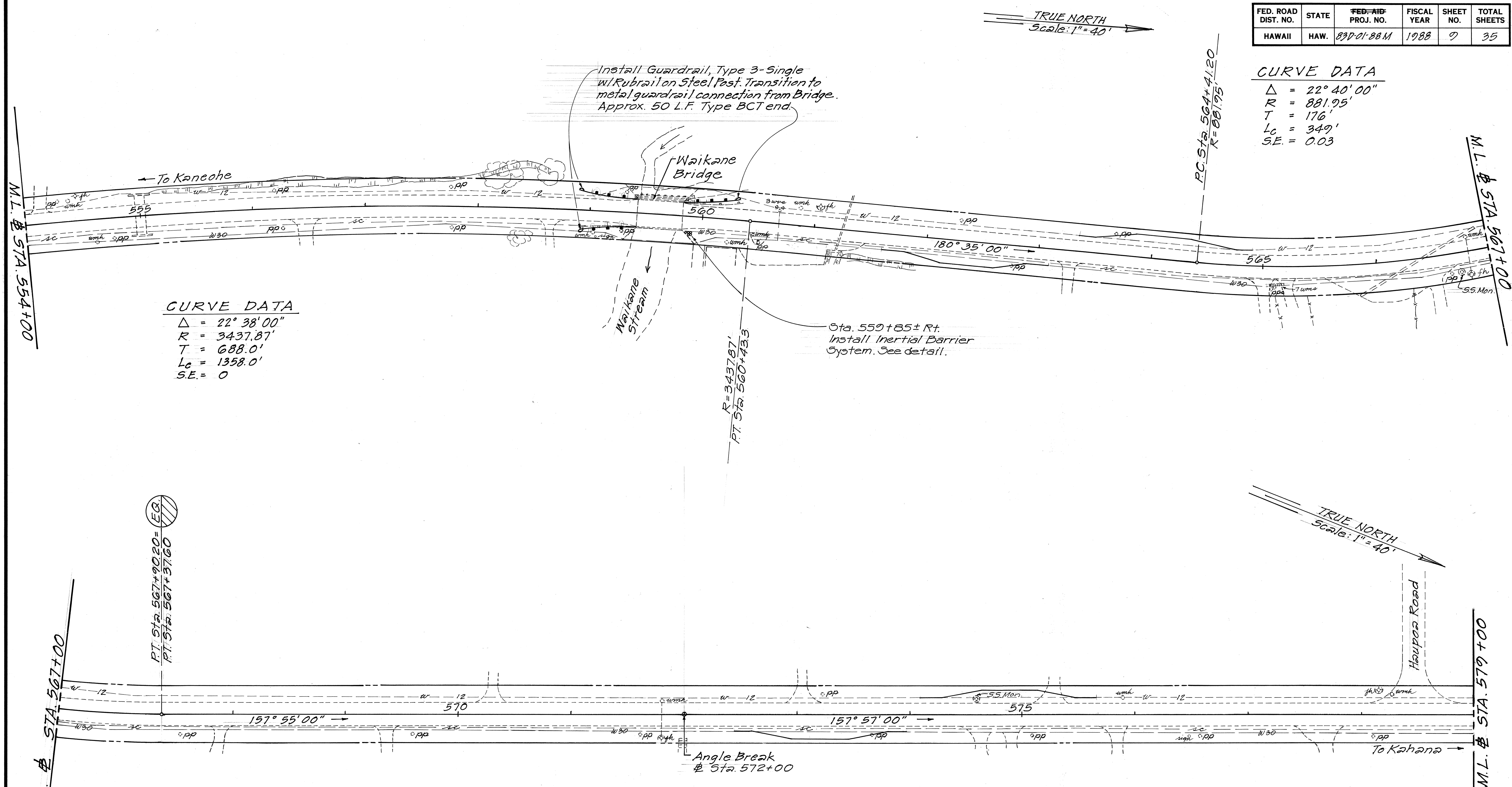
Install Guardrail, Type 3- Single
 w/ Rubrail on Steel Post. Transition
 to metal guardrail connection from bridge
 Approx. 50 L.F. Type BCT end.



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-88M	1988	9	35

CURVE DATA
 $\Delta = 22^\circ 40' 00''$
 $R = 881.95'$
 $T = 176'$
 $L_c = 349'$
 $SE = 0.03$

CURVE DATA
 $\Delta = 22^\circ 38' 00''$
 $R = 3437.87'$
 $T = 688.0'$
 $L_c = 1358.0'$
 $SE = 0$



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

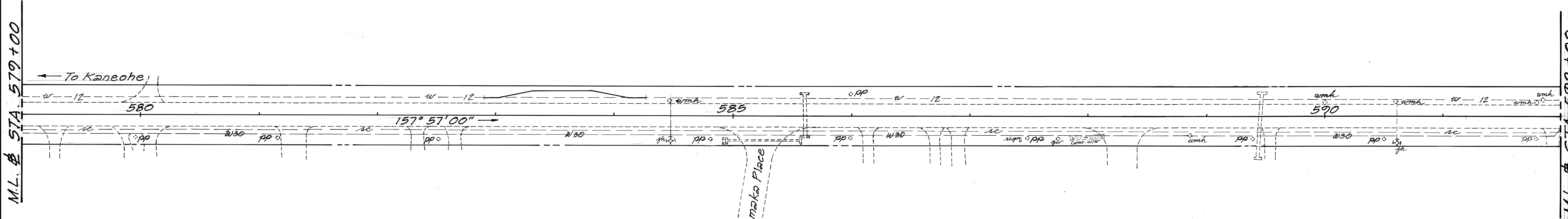
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Rd to Kualoa
Proj. No. 83D-01-88M

Scale: 1"=40' Date: Oct, 1987
SHEET No. 3 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-88M	1988	10	35

TRUE NORTH
Scale: 1"=40'

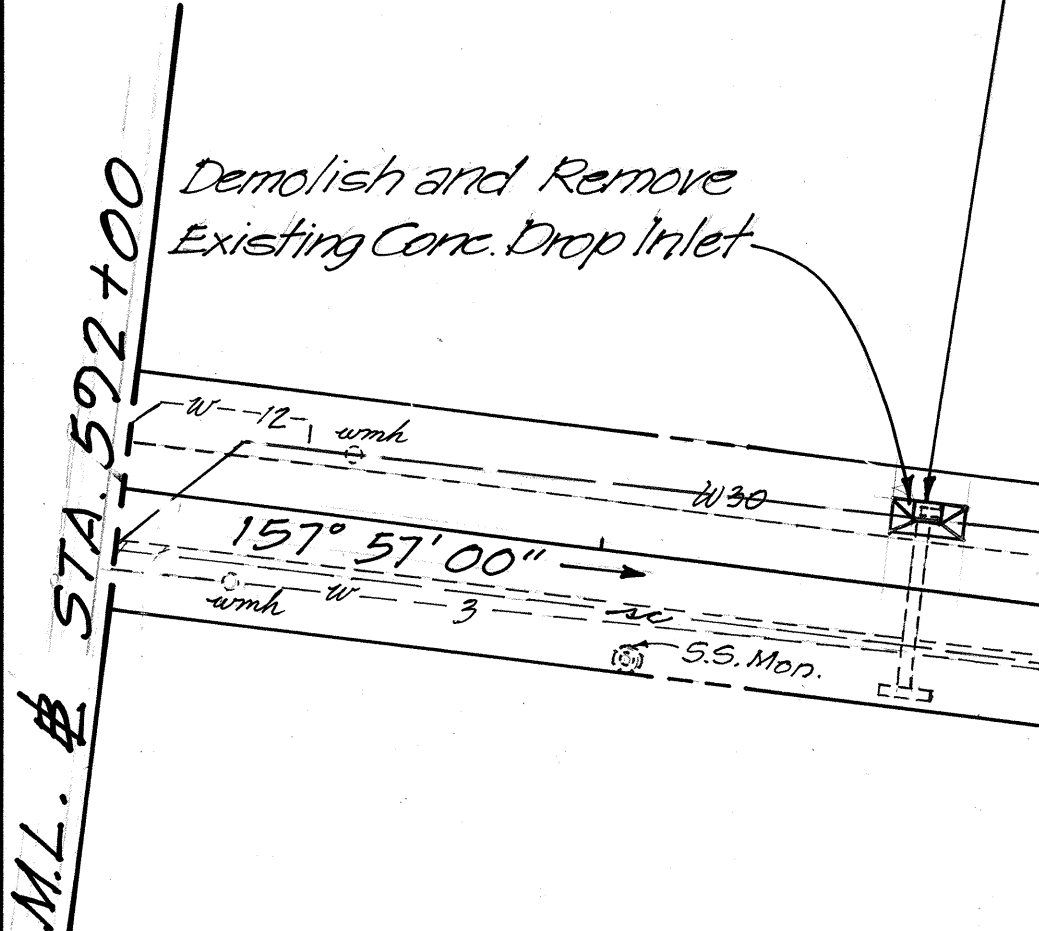


Sta. 593+66 Lt.
Type "A" Grated Drop Inlet
Inv. = 29.0±

CURVE DATA
 $\Delta = 7^{\circ}15'00''$
 $R = 1635.28'$
 $T = 103.7'$
 $L_c = 207'$
 $S.E. = 0$

P.C. Sta. 594+20.2
R=1635.28'

P.T. Sta. 596+27.3 = E.C.
Sta. 595+29.9



Sta. 600+00± to Sta. 601+00± Rt.
Install Guardrail, Type 3-Single
w/ Steel Post. Approximate 50 L.F.
BCT end treatment (2 each)

Remove collapsed Culvert and Headwall
Sta. 600+55 Rt.
CRM Headwall
Inv. = 37.0±

Sta. 600+55
Construct CRM Headwall, Stone Riprap,
Conc. Collar (for details, see sht. no. H5)
Install: 36" RCP, Class III

Sta. 593+66
Construct Type "A" Grated Drop Inlet
(For details, see sht. no. H3)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

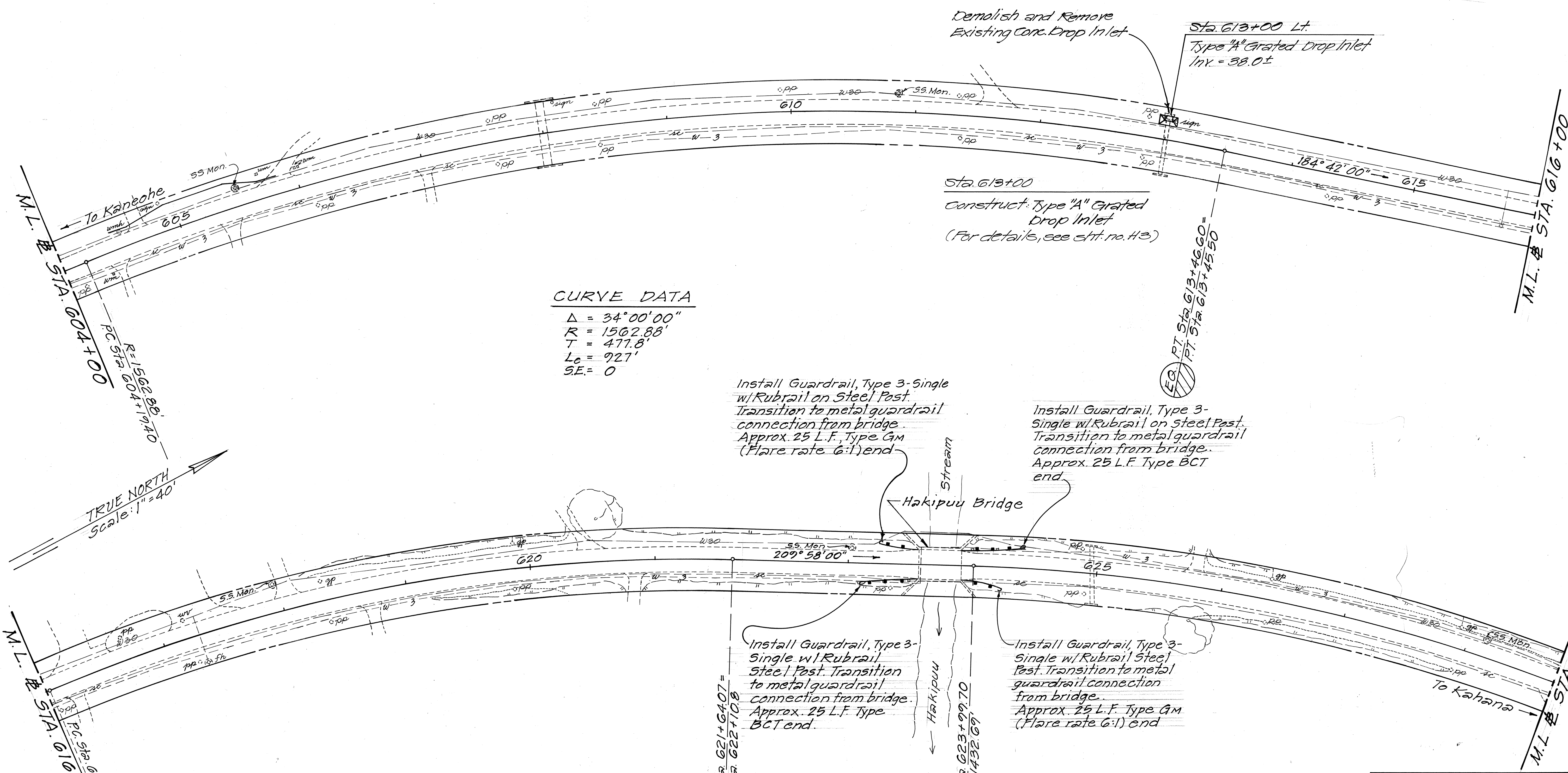
ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Waialeale Valley Rd. to Kualoa
Proj. No. 83D-01-88M

Scale: 1"=40' Date: Oct., 1987
SHEET No. 4 OF 9 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-BBM	1988	11	35

TRUE NORTH
Scale: 1"=40'



CURVE DATA

Δ = 34°00'00"
R = 1562.88'
T = 477.8'
Lc = 927'
SE = 0

Install Guardrail, Type 3-Single w/ Rubrail on Steel Post. Transition to metal guardrail connection from bridge. Approx. 25 L.F. Type GM (Flare rate 6:1) end

Install Guardrail, Type 3-Single w/ Rubrail on Steel Post. Transition to metal guardrail connection from bridge. Approx. 25 L.F. Type BCT end

Install Guardrail, Type 3-Single w/ Rubrail on Steel Post. Transition to metal guardrail connection from bridge. Approx. 25 L.F. Type BCT end

Install Guardrail, Type 3-Single w/ Rubrail on Steel Post. Transition to metal guardrail connection from bridge. Approx. 25 L.F. Type GM (Flare rate 6:1) end

CURVE DATA

Δ = 25°16'00"
R = 1273.57'
T = 285'
Lc = 561.6'
SE = 0.02

CURVE DATA

Δ = 25°11'00"
R = 1432.67'
T = 320.0'
Lc = 629.6'
SE = 0.02

check card file for update information for realignment of roadway also this file.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

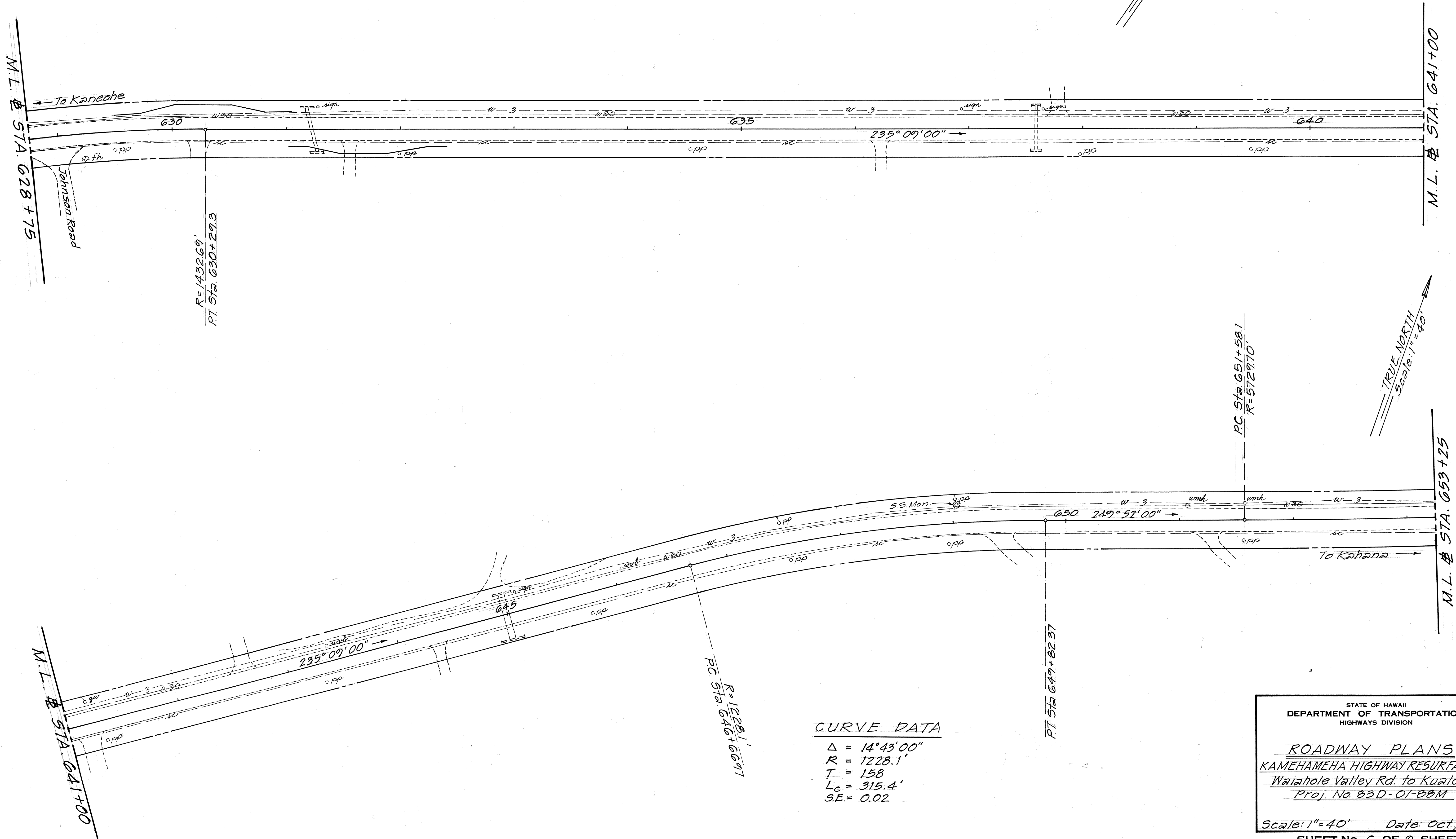
ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Waialeale Valley Rd. to Kualoa
Proj. No 83D-01-BBM

Scale: 1"=40' Date: Oct, 1987
SHEET No. 5 OF 9 SHEETS

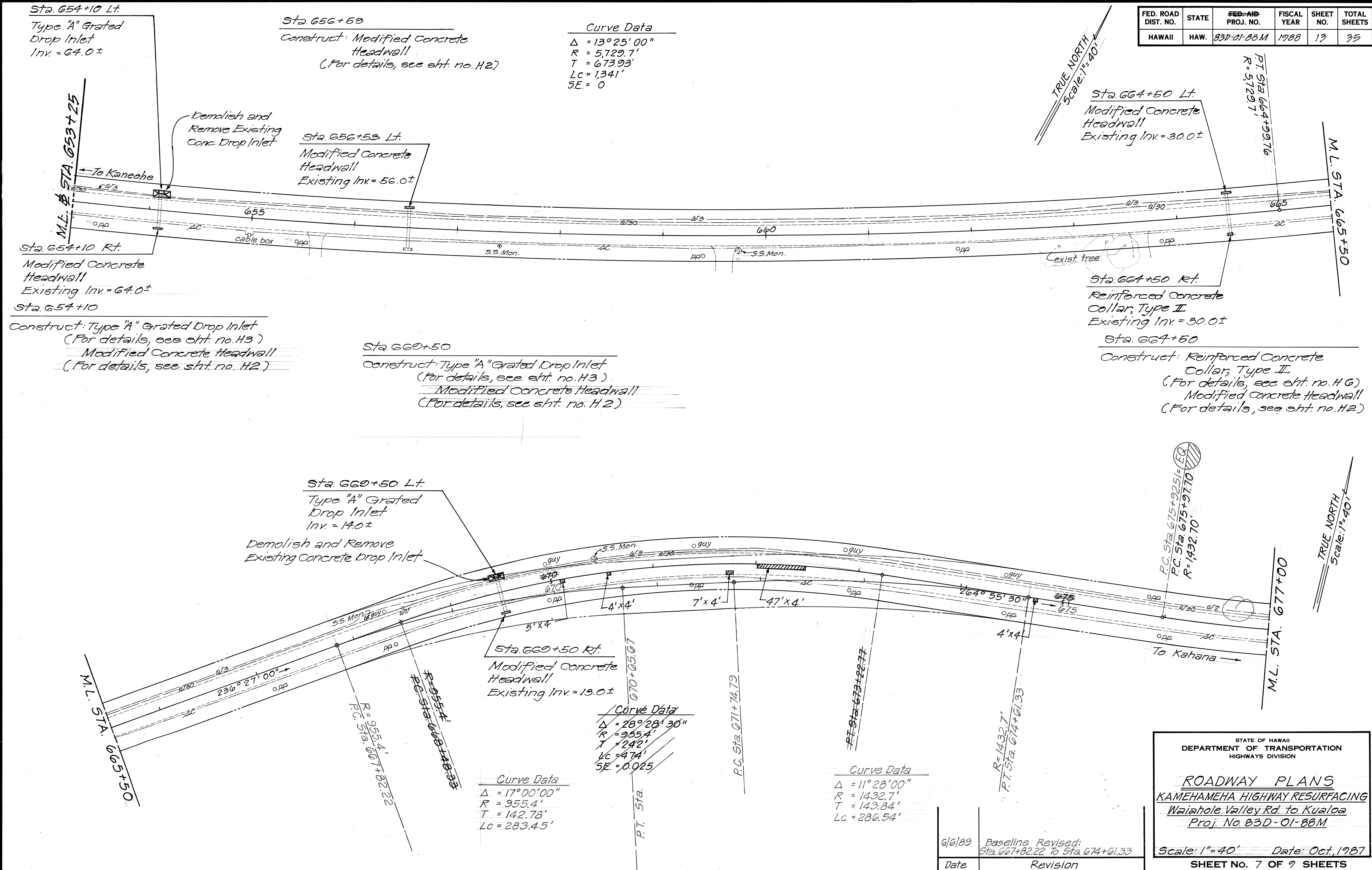
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-88M	1988	12	35

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



FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-88M	1988	13	35

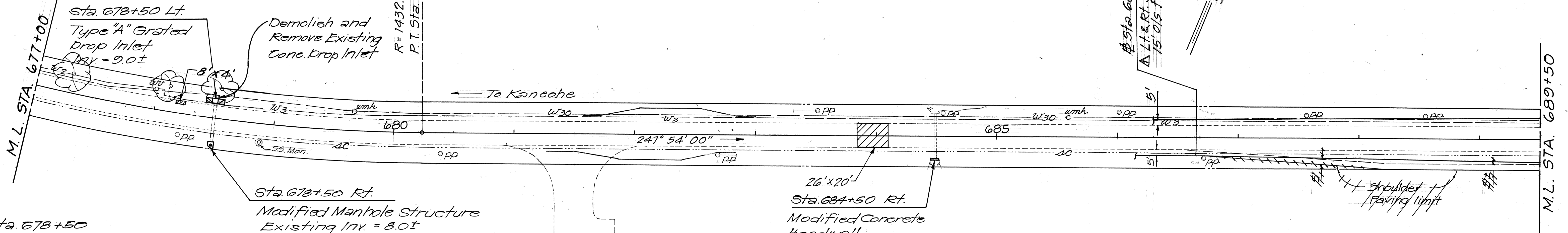


SURVEY PLOTTED BY	DATE
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ORIGINAL PLAN	
NOTE BOOK	
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-88M	1988	14	35

Curve Data

$\Delta = 17^{\circ} 01' 30''$
 $R = 1432.7'$
 $T = 214'$
 $Lc = 425'$
 $SE = 0.02$



Sta. 678+50

Construct: Type "A" Grated Drop Inlet
 (For details, see sht. no. H3)
 Modified Manhole Structure
 (For details, see sht. no. H7)

Sta. 678+50 Rt.

Modified Manhole Structure
 Existing Inv. = 8.0±

26'x20'

Sta. 684+50 Rt.

Modified Concrete
 Headwall
 Existing Inv. = 4.0±

Sta. 684+50

Construct: Modified Concrete
 Headwall
 (For details, see sht. no. H2)

Sta. 717+77

Construct: Type "B" Concrete
 Inlet Structure
 (For details, see sht. no. H8)
 Reinforced Concrete
 Collar, Type I
 (For details, see sht. no. H4)
 Install: 24" RCP, Class III

M.L. STA. 689+50

Sta. 690+90.03
 Lt. Bus Bay Paving 23.42' o/s from #
 Rt. Shoulder Paving 21.48' o/s

Sta. 691+90.03
 Lt. Shldr. Paving 17' o/s from #
 Rt. Shldr. Paving 25' o/s
 Kam Hwy. # Sta. 692+08.03
 Kualoa Regional Park #

Sta. 692+26.03
 Lt. Shldr. Paving 17' o/s from #
 Rt. Shldr. Paving 25' o/s

Sta. 693+26.03
 Lt. Shldr. Paving 17' o/s from #
 Rt. Shldr. Paving 23' o/s

Sta. 695+02.17 =
 Sta. 711+00
 P.C. Sta. 711+25.86
 $R = 573.68'$

Curve Data

$\Delta = 60^{\circ} 30' 00''$
 $R = 573.68'$
 $T = 334'$
 $Lc = 605'$
 $SE = 0.05$

TRUE NORTH
Scale: 1" = 40'

Sta. 717+77 Lt.

Type "B" Concrete
 Inlet Structure
 Inv. = 1.0±
 Demolish and
 Remove Exist.
 Conc. Inlet
 Structure

Sta. 718+00
 Lt. Shldr. Paving 17' o/s from #
 Rt. Shldr. Paving 23' o/s

Construct P.C.C. Curb
 to match into existing
 Approximate 80 L.F.

Kualoa Regional Park Entrance

Demolish & remove
 existing P.C.C. curb.
 Reconstruct & pave
 w/ 6" Recycled ACB &
 2 1/2" A.C. Mix No. V to
 match adjacent pavement

Left Turn @ Kualoa
 Regional Park Entrance
 Revision

5-9-88
 Date

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING

Waiahole Valley Rd. to Kualoa

Proj. No. 83D-01-88M

Scale: 1" = 40'

Date: Oct, 1987

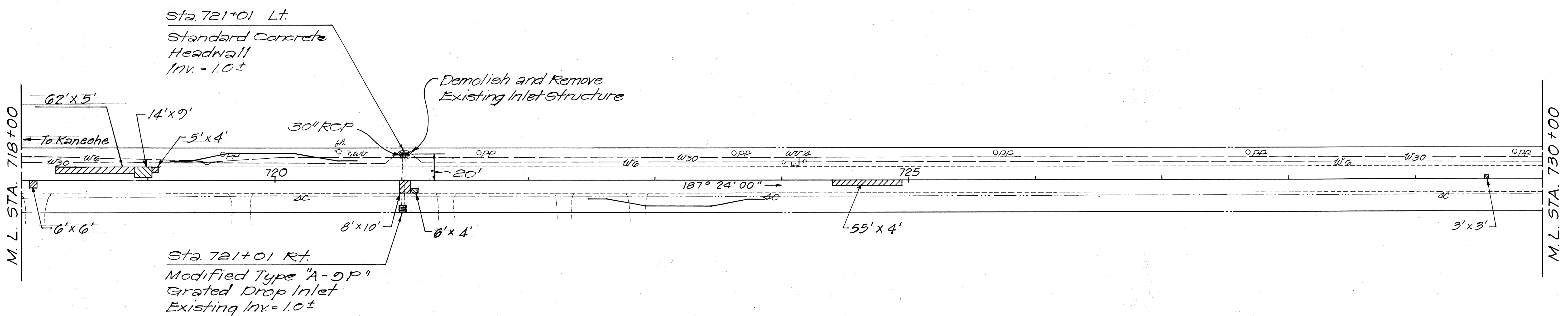
SHEET NO. 8 OF 9 SHEETS

C.O. 14

SURVEY PLOTTED BY	DATE
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QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-88M	1988	15	36

TRUE NORTH
Scale: 1"=40'

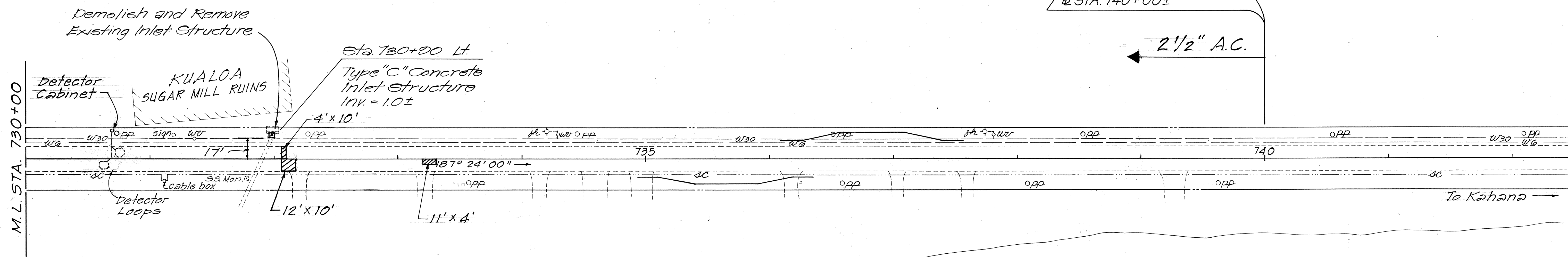


Sta. 721+01
Construct: Standard Concrete Headwall
Modified Type "A-9P" Grated Drop Inlet
(For details, see sht. no. H9)
Reinforced Concrete Collar, Type I
(For details, see sht. no. H4)
Install: 30" RCP, Class III

Sta. 730+00 Lt.
Construct: Type "C" Concrete
Inlet Structure
(For details, see sht. no. H9)

TRUE NORTH
Scale: 1"=40'

END PROJECT
Sta. 740+00±
2 1/2" A.C.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Rd. to Kualoa
Proj. No. 83D-01-88M

Scale: 1"=40' Date: Oct. 1987
SHEET No. 9 OF 9 SHEETS

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