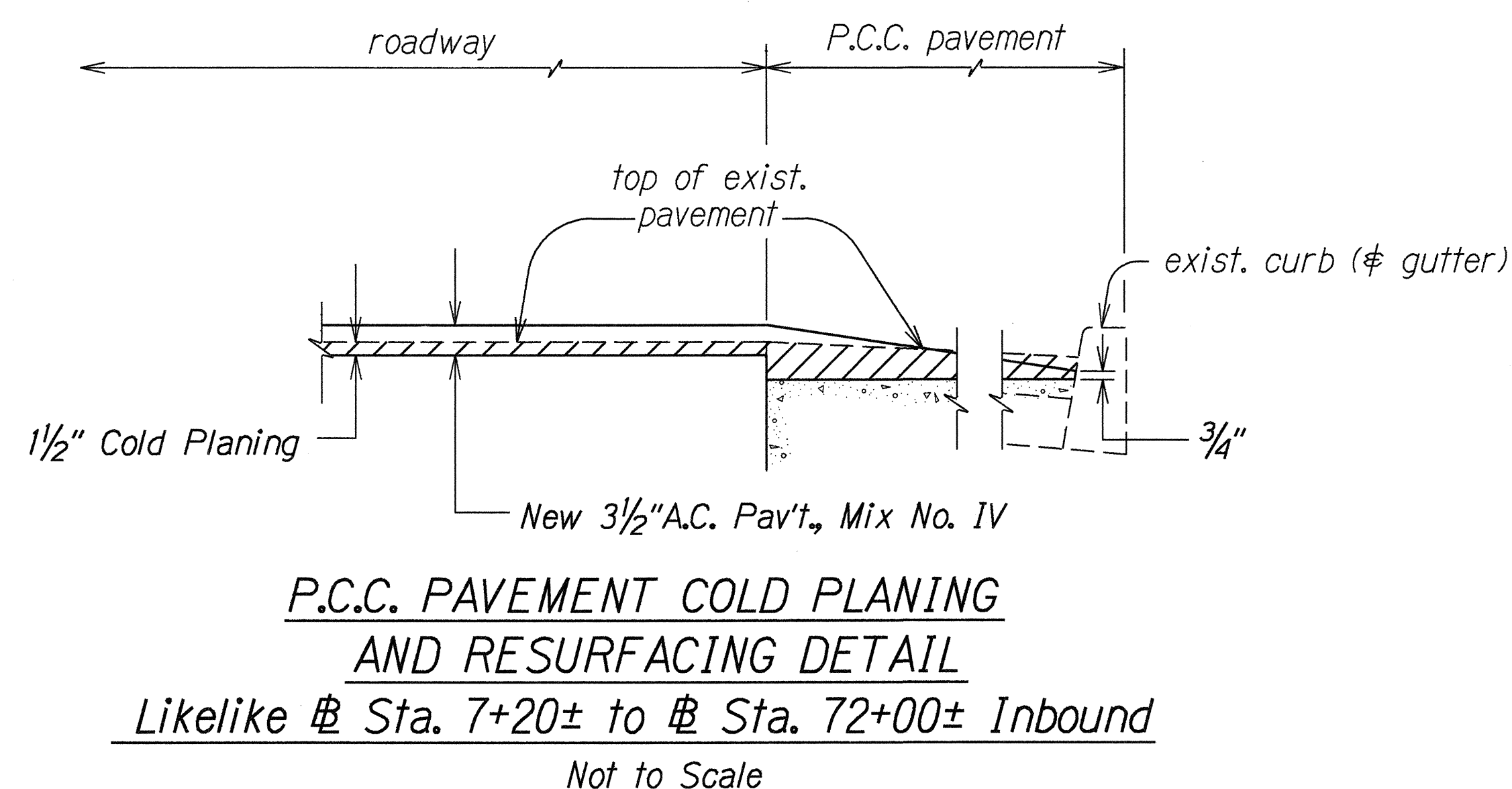
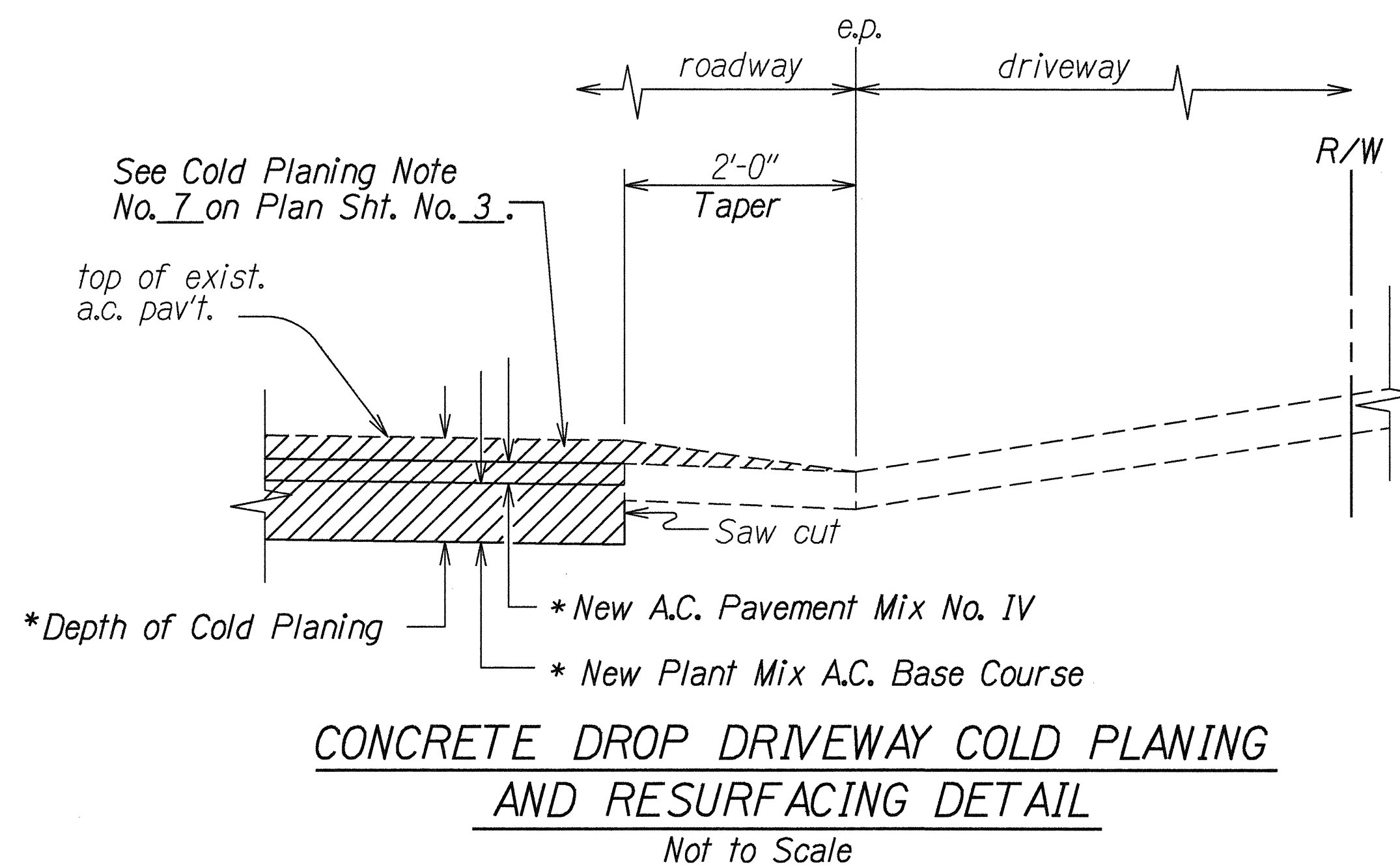
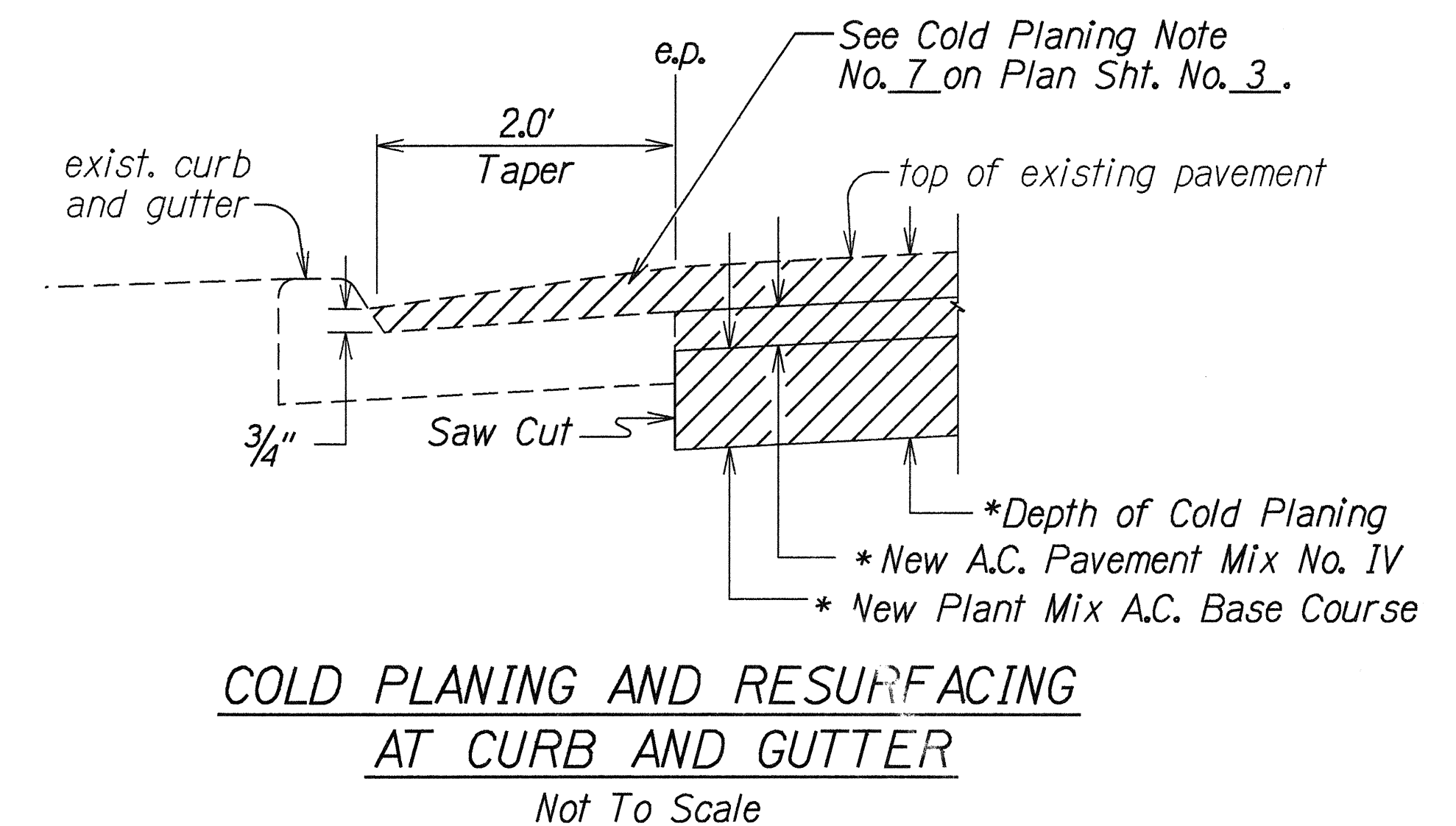
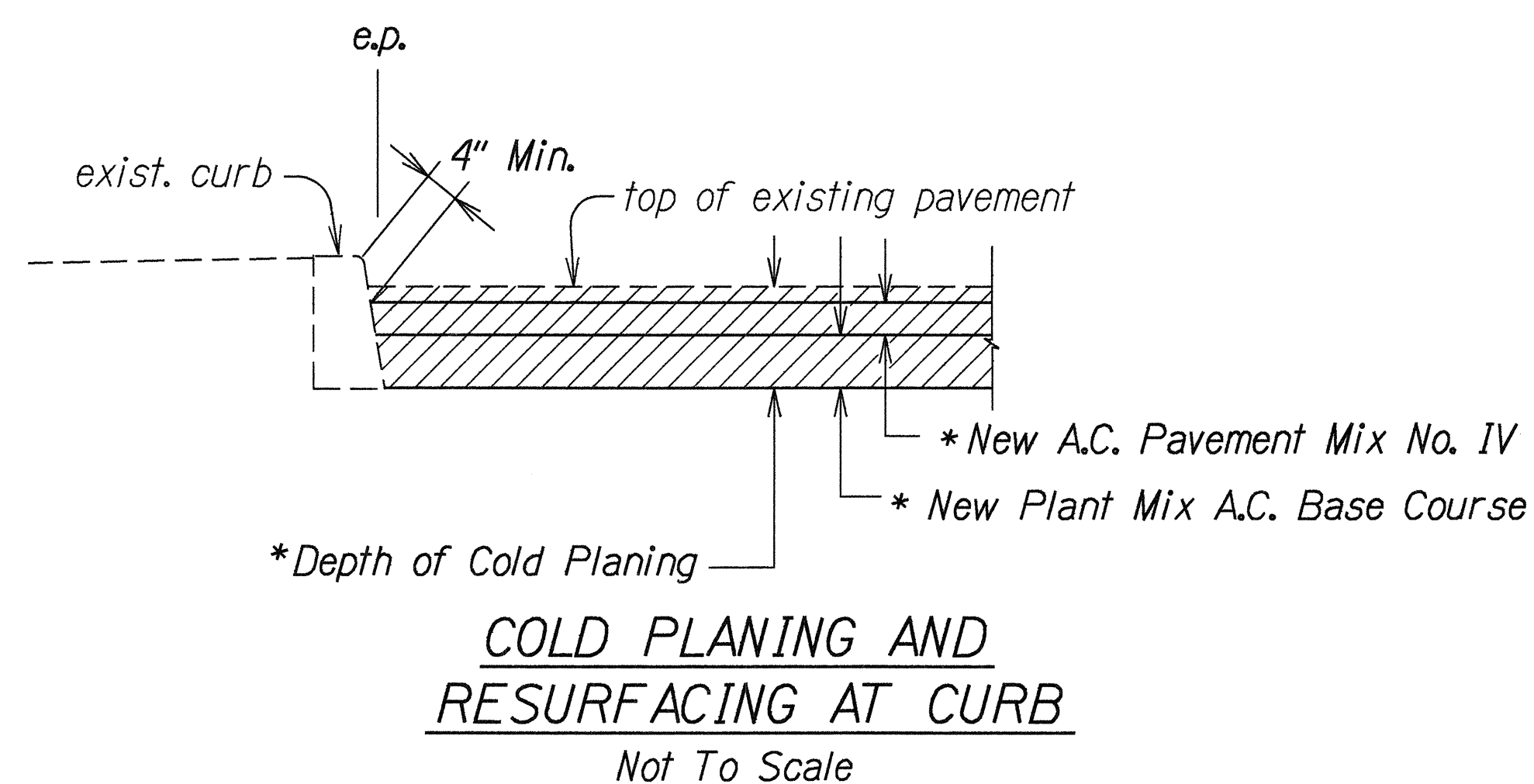
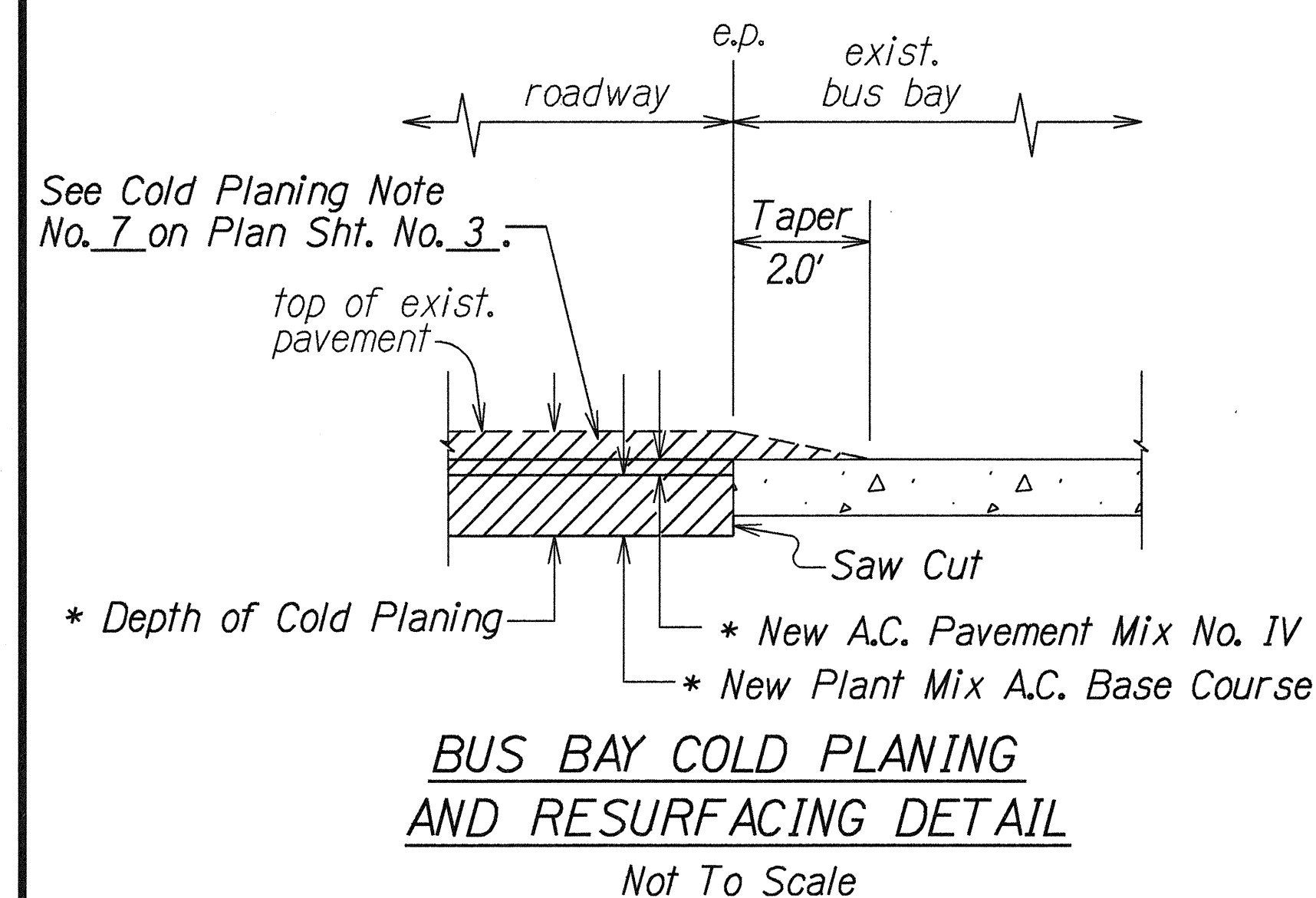
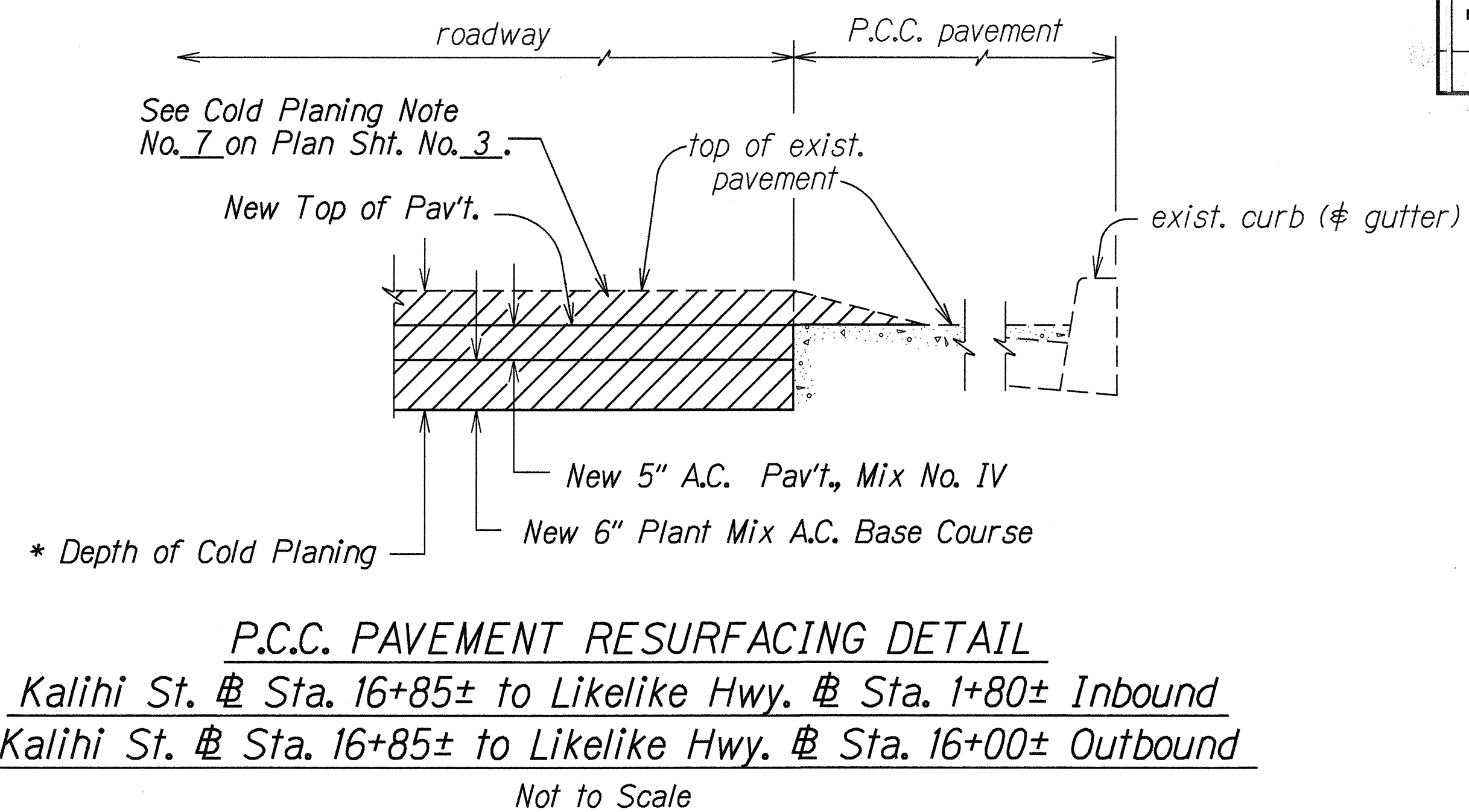
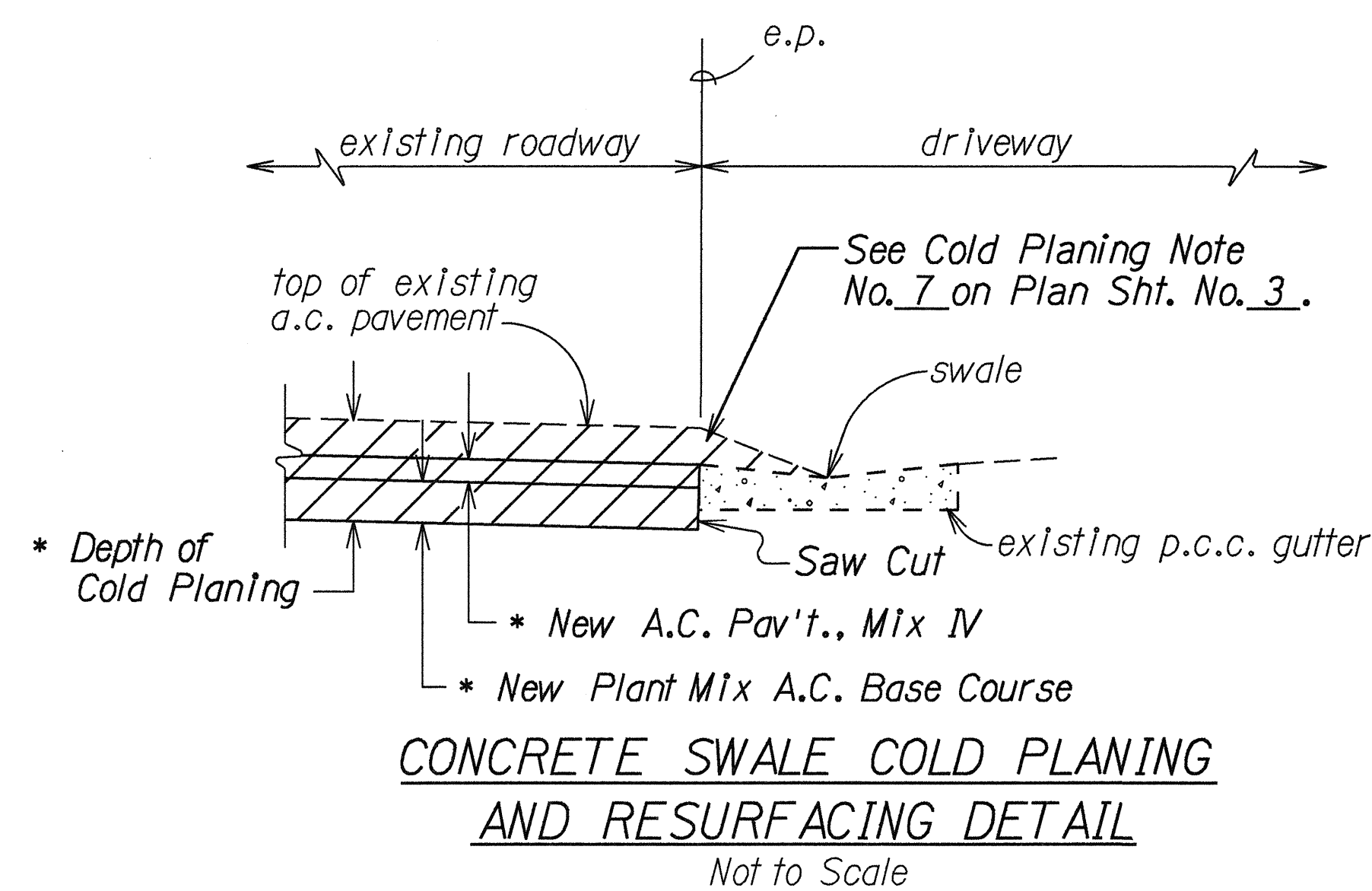


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	811



* Note: For Thickness, See Schedule on Plan Sht. No. 20.

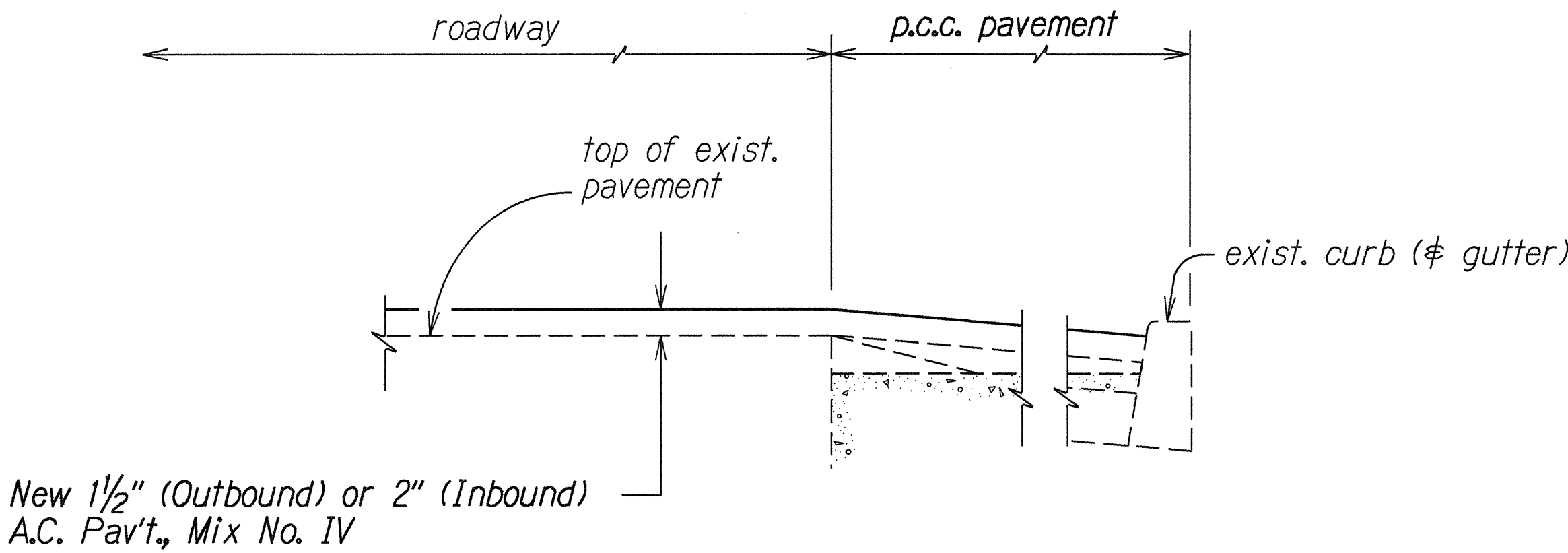
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
IN COLD PLANING AREAS
LIKELIKE HIGHWAY RESURFACING
F.A. Project No. NH-063-1(19)
KALIHI STREET RESURFACING
F.A. Project No. STP-063-1(20)
Date: May, 1995

SHEET No. 1 OF 5 SHEETS

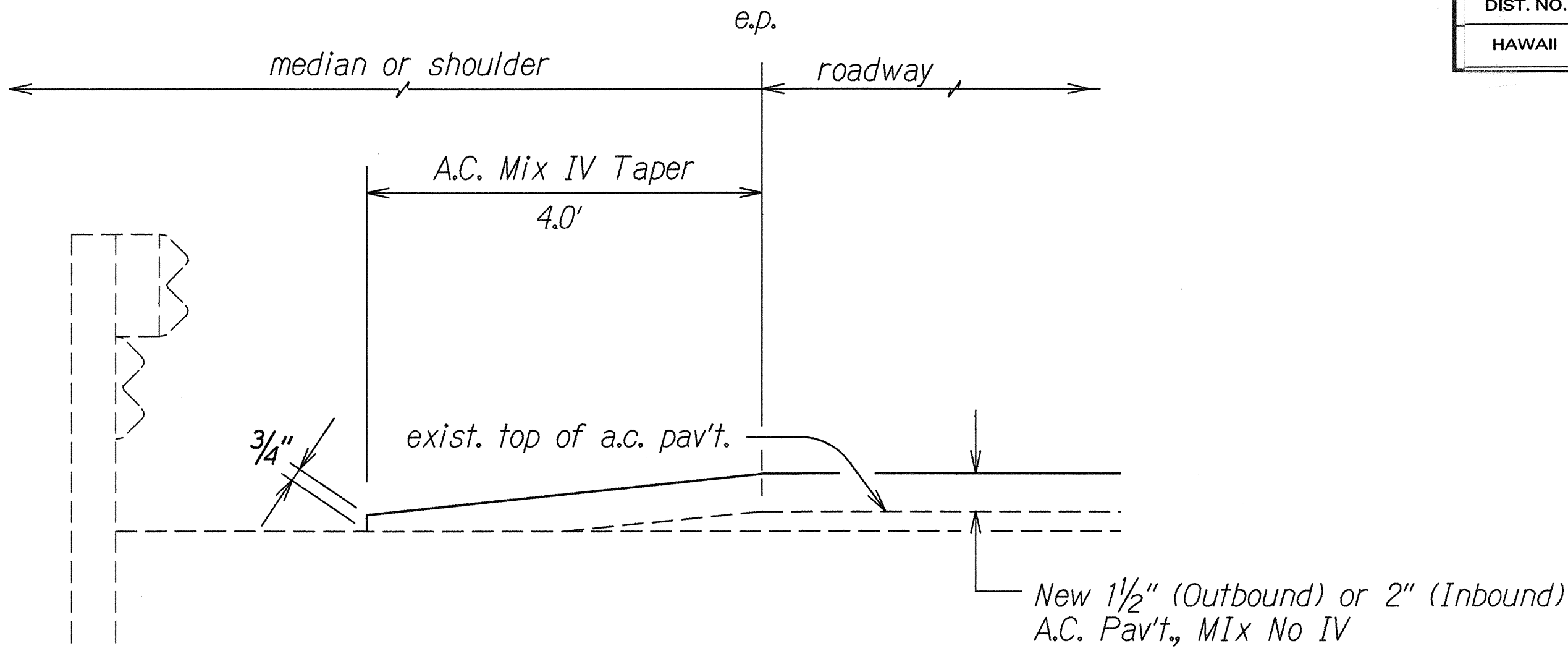
SURVEY PLOTTED BY	DATE
DRAWN BY	6/7/95
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
66/High/Hwy	
No. 11/10/10/10	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	811



P.C.C. PAVEMENT RESURFACING DETAIL

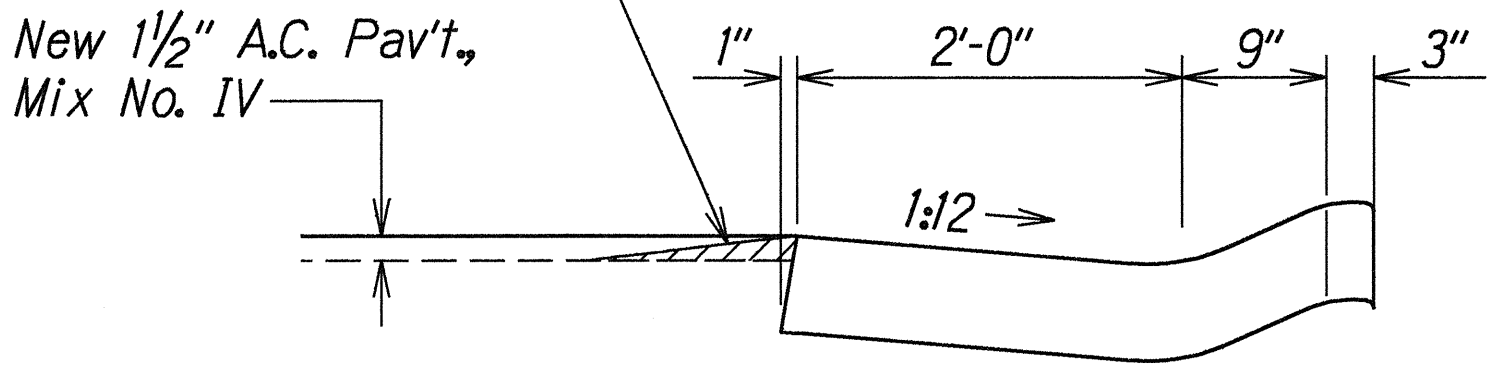
Not to Scale



RESURFACING AT MEDIAN OR SHOULDER WITH GUARDRAIL

Not To Scale

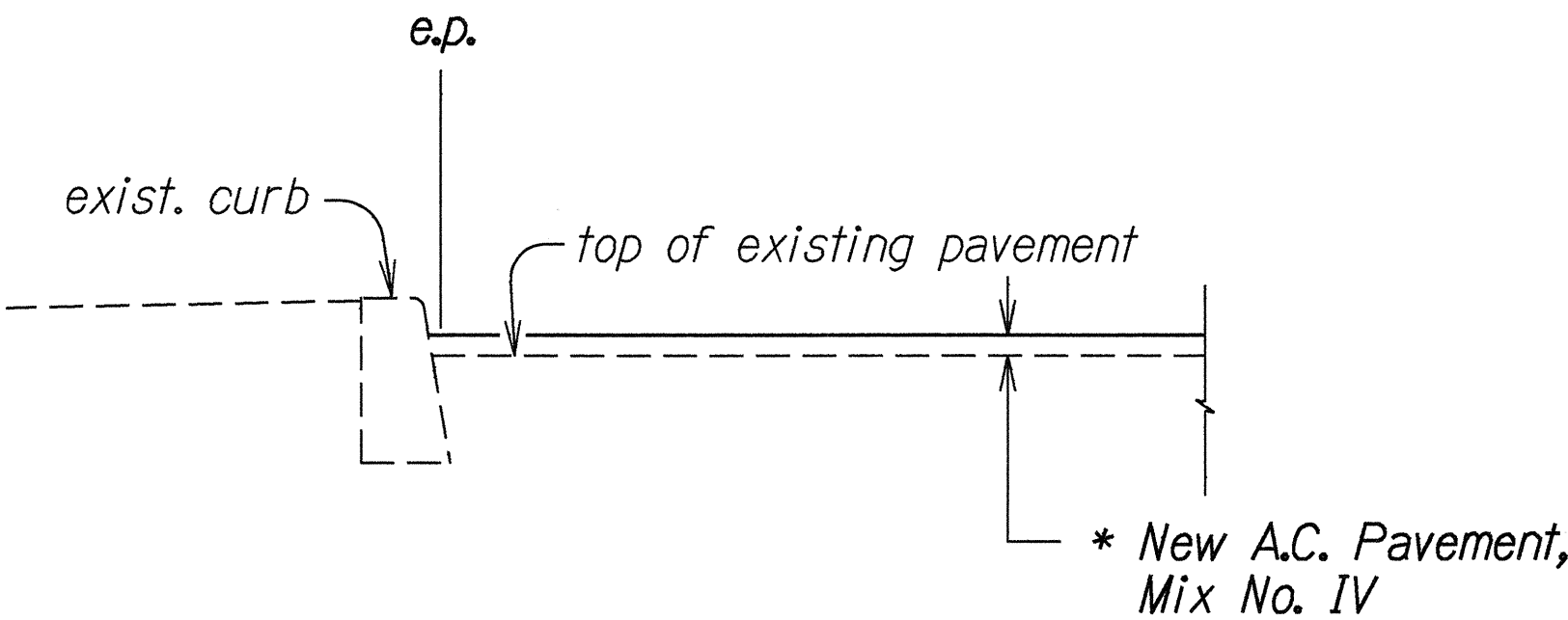
Remove Temporary A.C. Transition Taper.
Removal and disposal to be considered incidental
to Cold Planing Items.



A.C. TAPER REMOVAL DETAIL

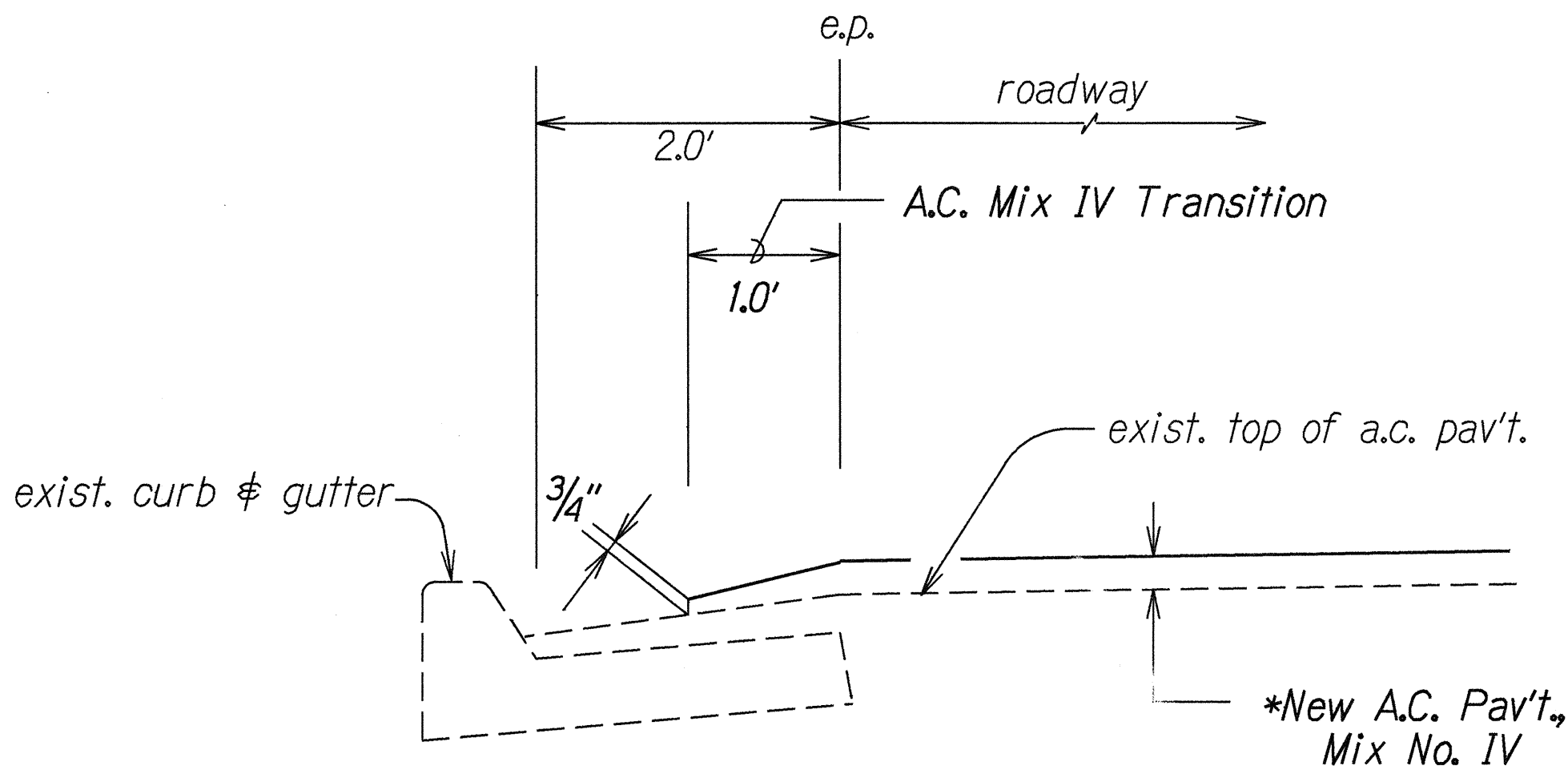
LIKELIKE HWY., ± STA. 70+32± TO ± STA. 74+87± Rt.

Not to Scale



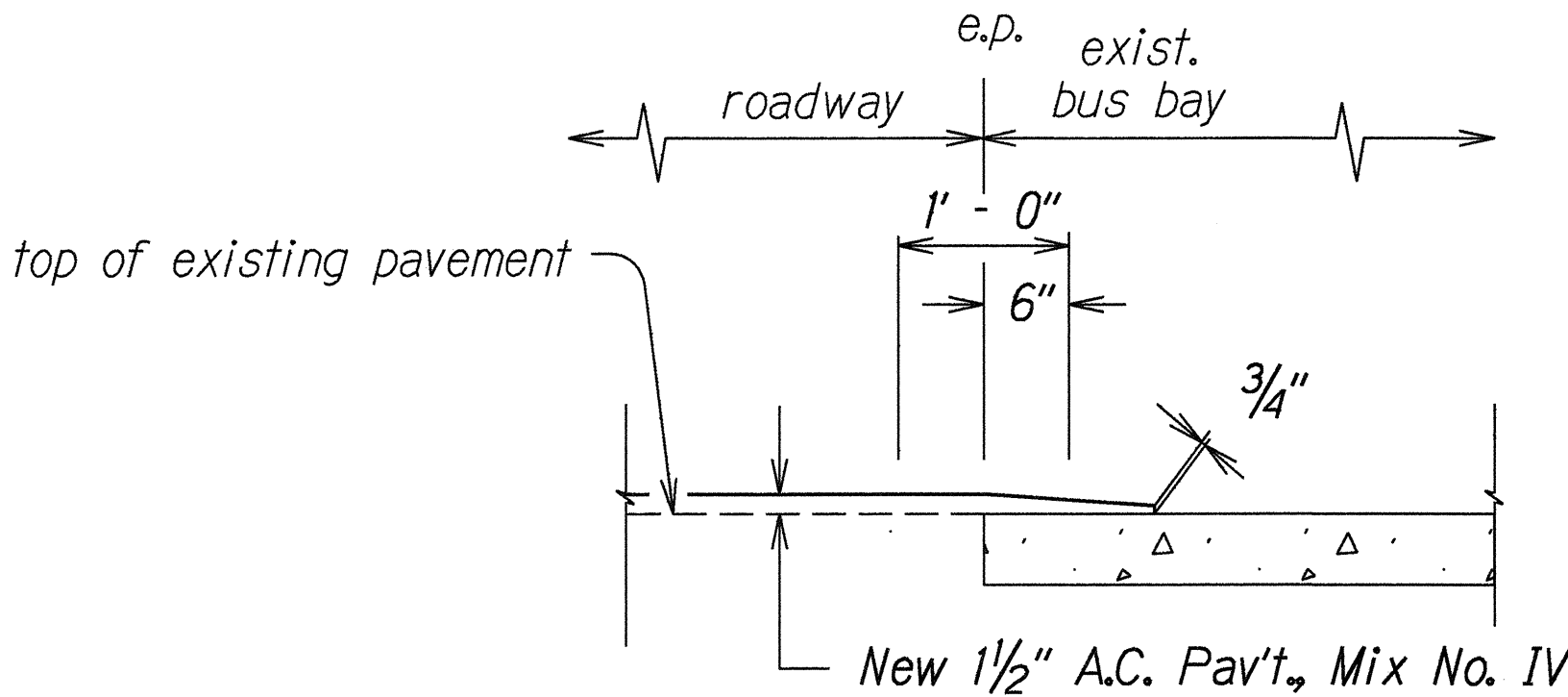
RESURFACING AT CURB

Not To Scale



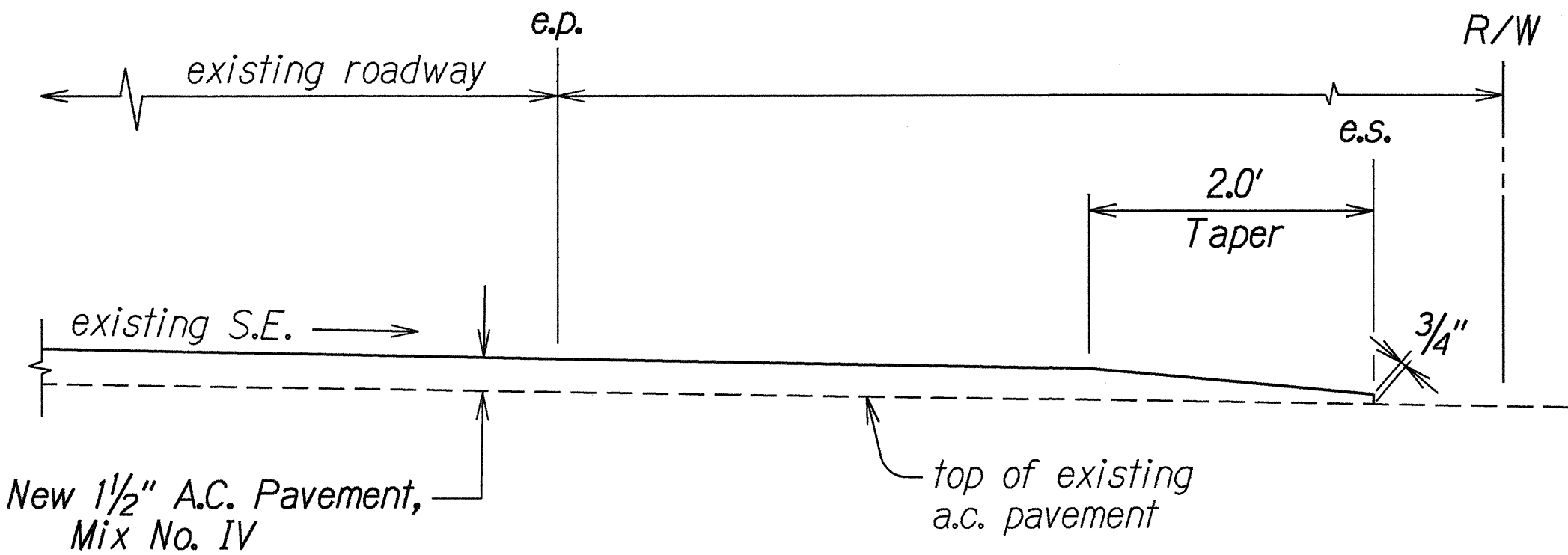
RESURFACING AT CURB AND GUTTER

Not To Scale



BUS BAY RESURFACING DETAIL

Not To Scale



DETAIL OF A.C. RESURFACING WHERE
PAVED SHOULDER EXISTS

Not To Scale

* Note: For Thickness, See Schedule on
Plan Sht. No. 20

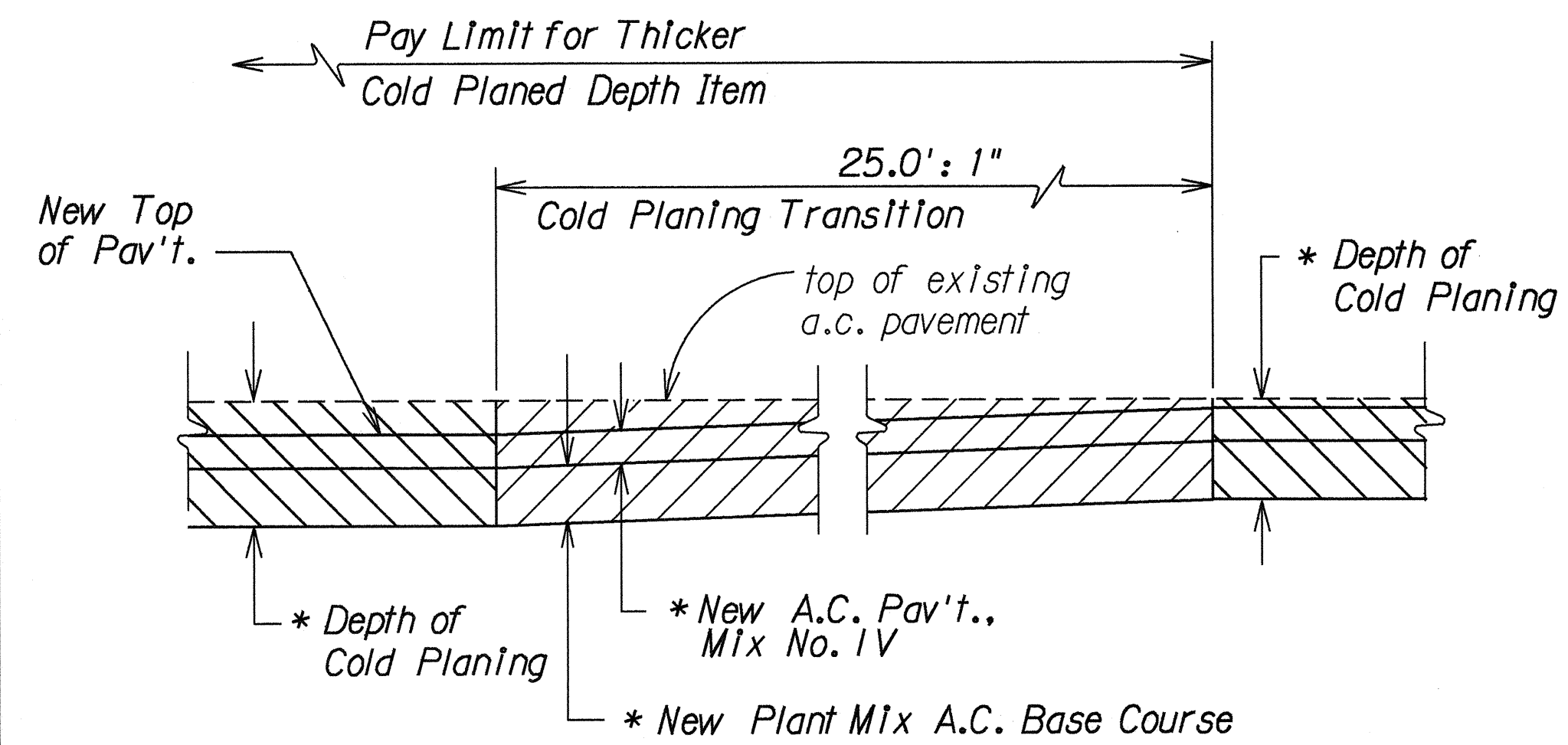
SURVEY PLOTTED BY	DATE	6/7/95
DRAWN BY		
CHECKED BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		
ORIGINAL PLAN		
NOTE BOOK		
NO.		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

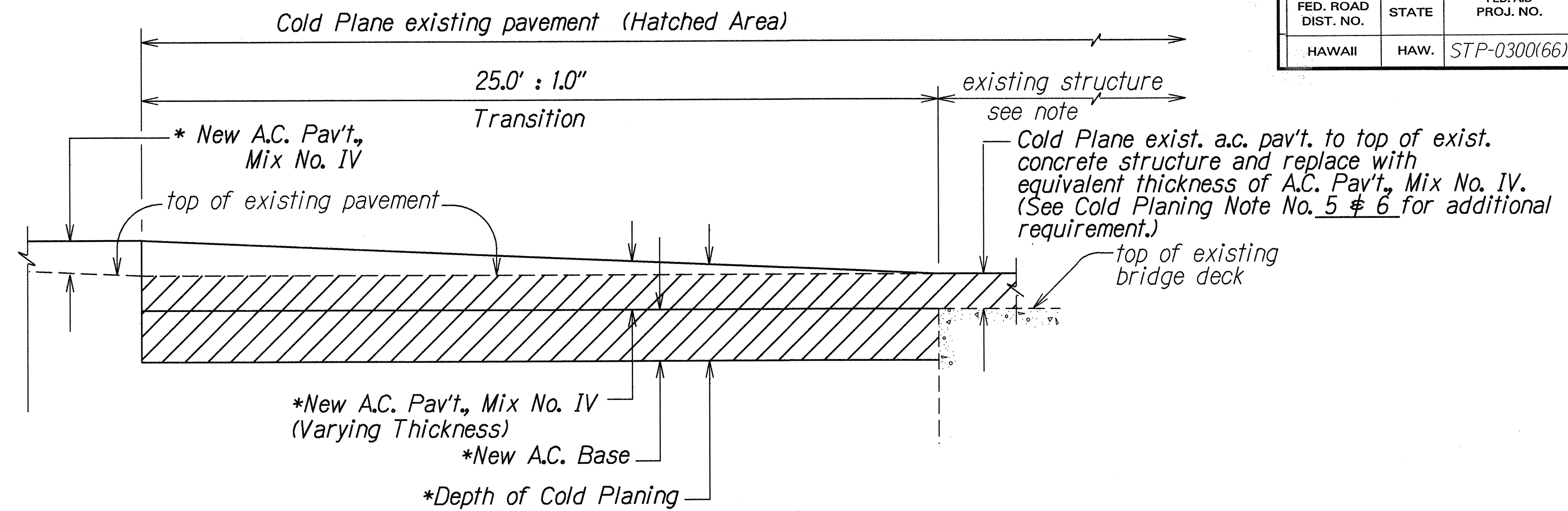
TYPICAL DETAILS
LIKELIKE HIGHWAY RESURFACING
F.A. Project No. NH-063-1(19)
KALIHI STREET RESURFACING
F.A. Project No. STP-063-1(20)
Date: May, 1995

SHEET No. 2 OF 5 SHEETS

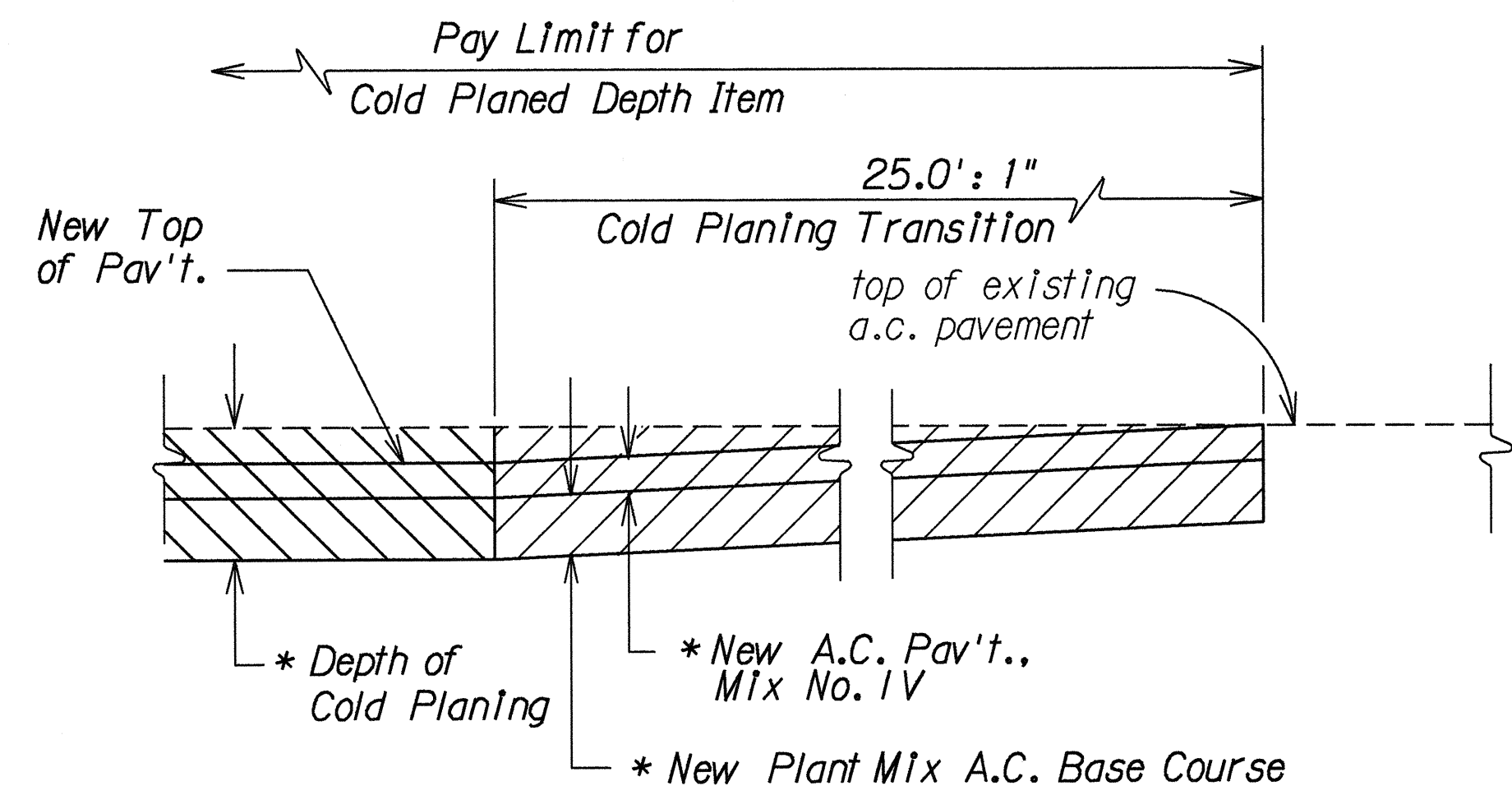
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	811



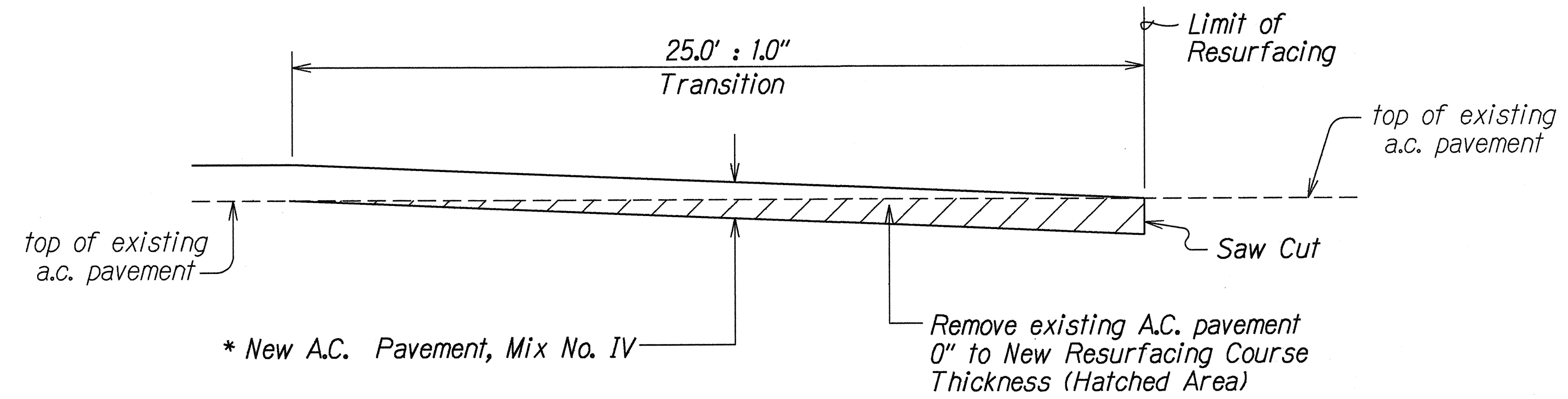
LONGITUDINAL COLD PLANING TRANSITION DETAIL
BETWEEN DIFFERENT COLD PLANING DEPTHS
Not to Scale



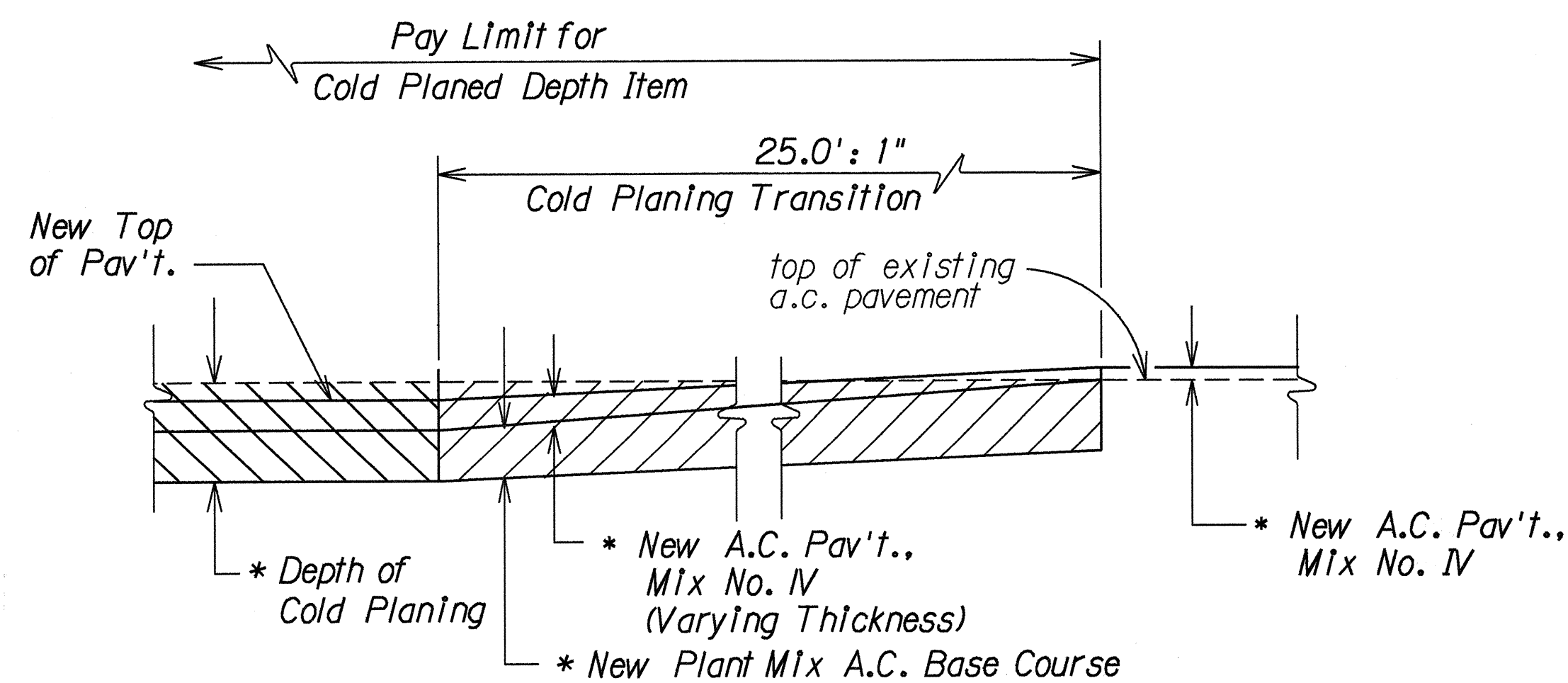
COLD PLANED TRANSITION AND RESURFACING
OVER EXISTING STRUCTURE
Not to Scale



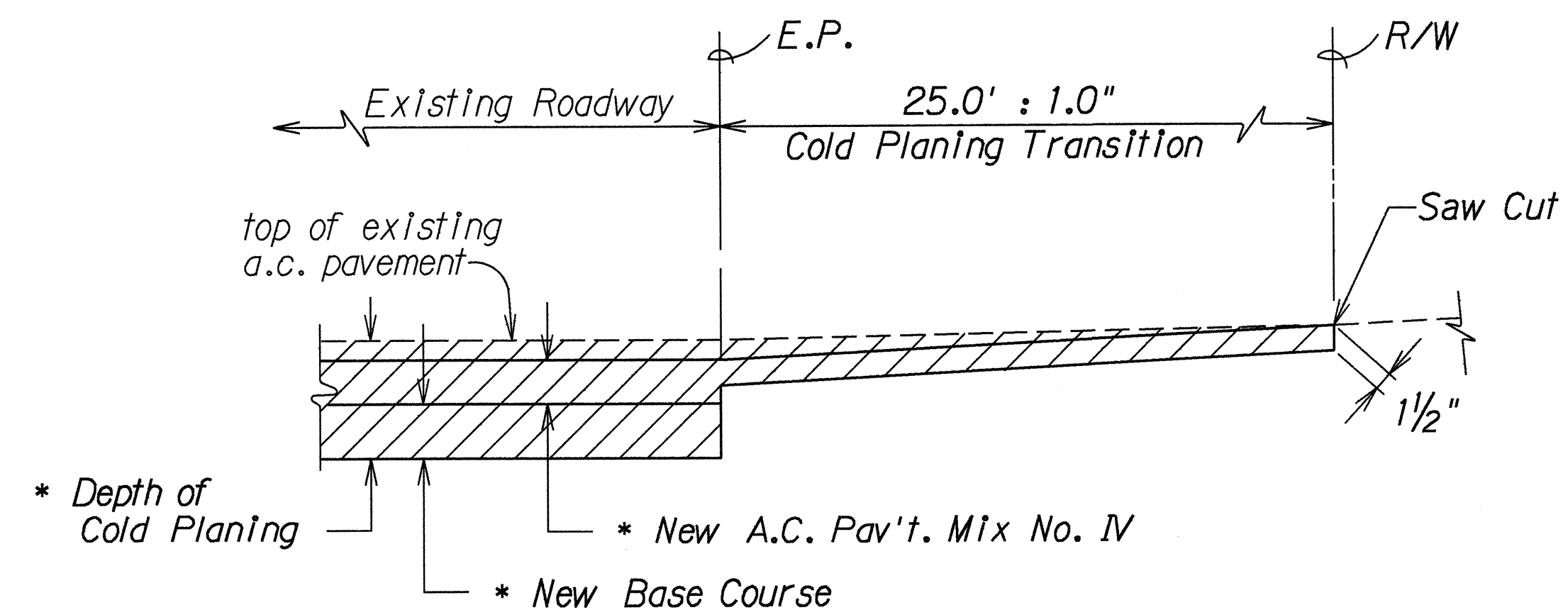
LONGITUDINAL COLD PLANING TRANSITION DETAIL
COLD PLANING TO EXISTING A.C. PAVEMENT AREA
Not to Scale



COLD PLANED TRANSITION TO EXISTING A.C. PAVEMENT
Not To Scale



LONGITUDINAL COLD PLANING TRANSITION DETAIL
COLD PLANING TO A.C. OVERLAY AREA
Not to Scale



SIDE STREETS AND DRIVEWAY
COLD PLANING AND RESURFACING DETAIL
Not to Scale

- Notes:
1. Provide smooth riding transition into driveways as directed by the Engineer. This work shall be considered incidental to Cold Planing.
 2. Cold Planing thickness for driveways and side streets shall be 1 1/2" unless otherwise noted on the plans.

* Note: For Thickness, See Schedule on Plan Sht. No. 20

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS

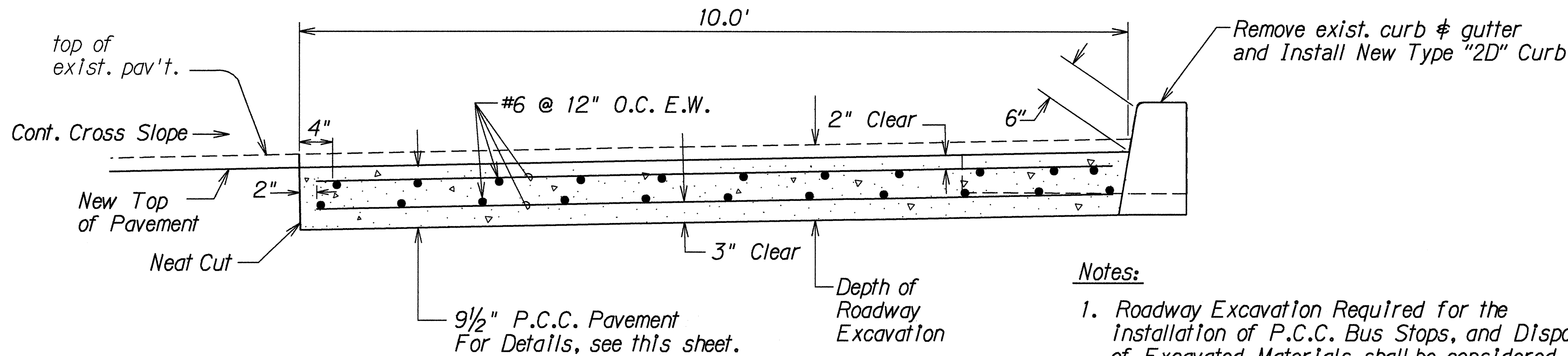
LIKELIKE HIGHWAY RESURFACING
F.A. Project No. NH-063-1(19)

KALIHI STREET RESURFACING
F.A. Project No. STP-063-1(20)

Date: May, 1995

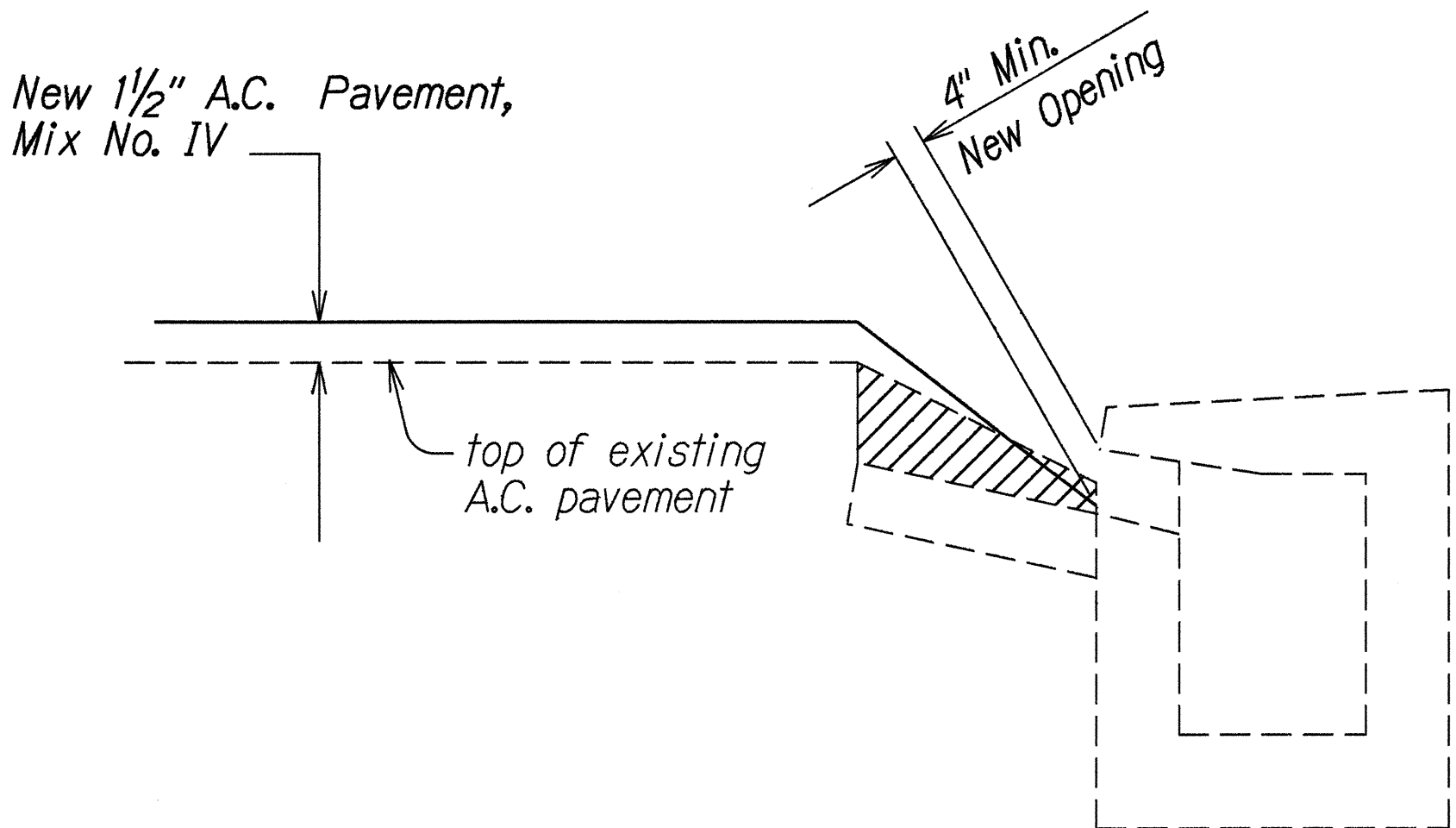
SURVEY PLOTTED BY	DATE
DRAWN BY	6/7/95
CHECKED BY	
QUANTITIES BY	
NOTES BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	811

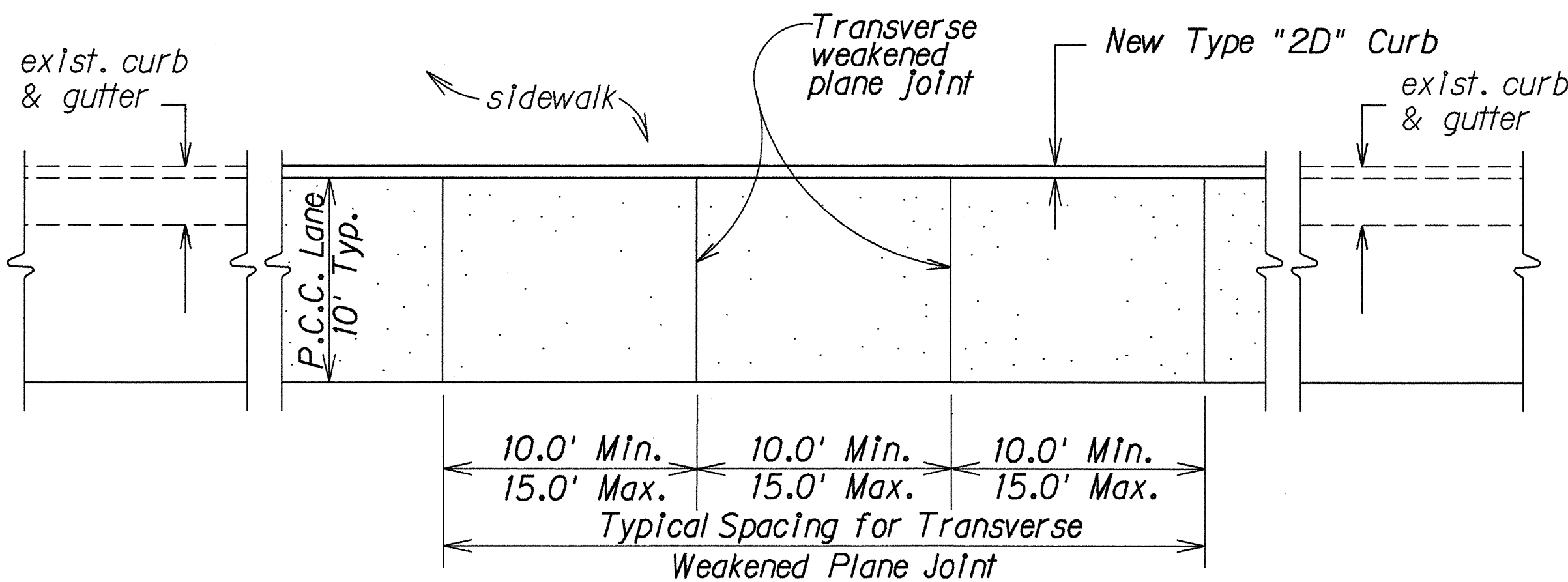


P.C.C. BUS STOP PAVEMENT DETAIL
Not to Scale

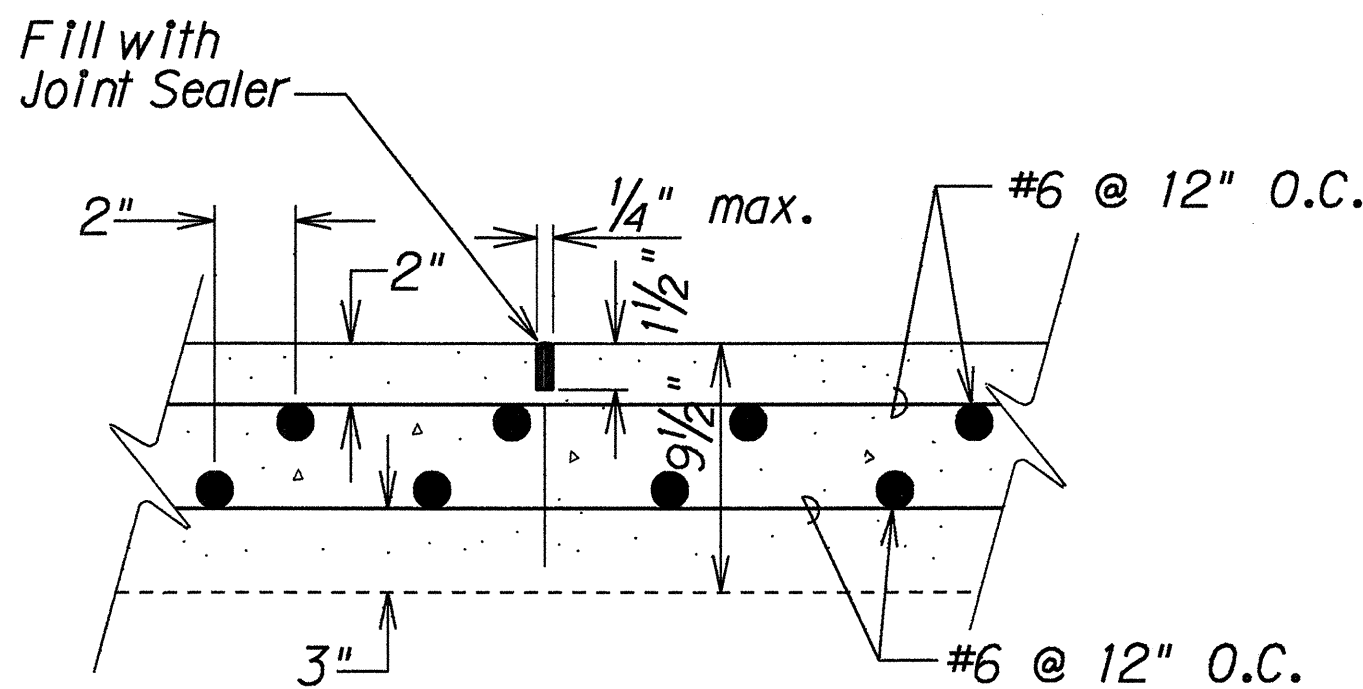
- Notes:**
1. Roadway Excavation Required for the Installation of P.C.C. Bus Stops, and Disposal of Excavated Materials shall be considered Incidental to Item No. 411.1212, 9-1/2 Inch Reinforced Concrete Pavement, and will not be paid for separately.
 2. Removal of existing curb & gutter shall be Incidental to the New Curbing.



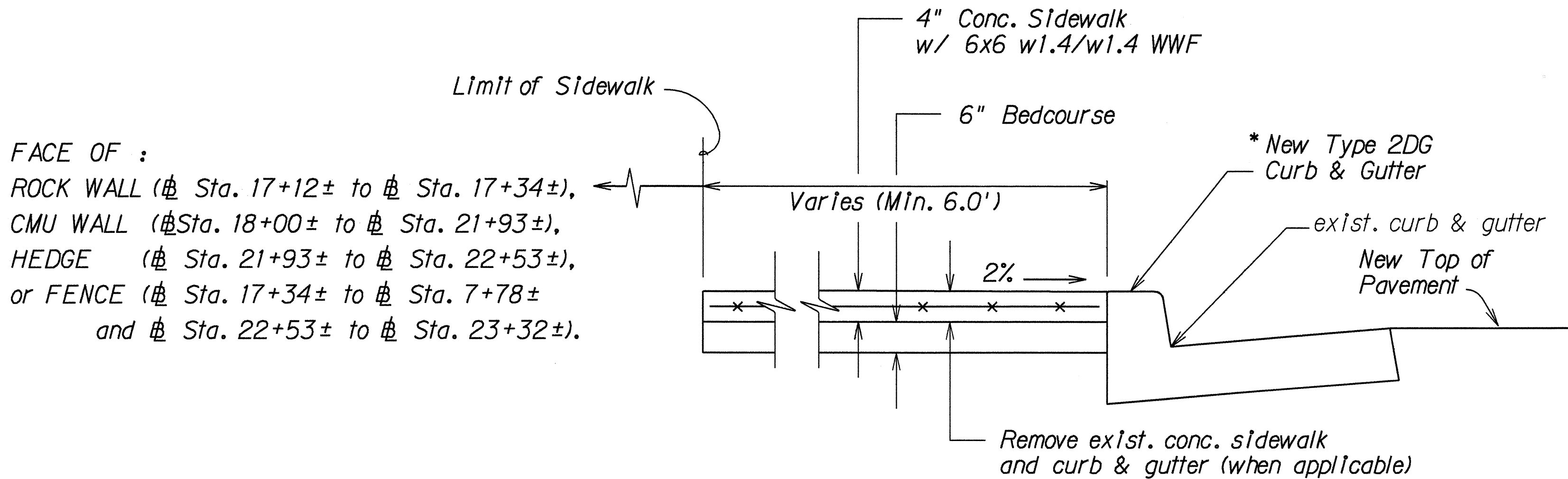
RESURFACING TRANSITION AT CATCH BASINS
Not To Scale



TYPICAL JOINT LOCATION AND LAYOUT PLAN FOR P.C.C. BUS STOP
Not To Scale



TRANSVERSE WEAKENED PLANE JOINT FOR P.C.C. BUS STOP (SAWED CONTRACTION)
Not To Scale



REINFORCED CONCRETE SIDEWALK
Kalihi St. Sta. 17+12± to Sta. 23+32±

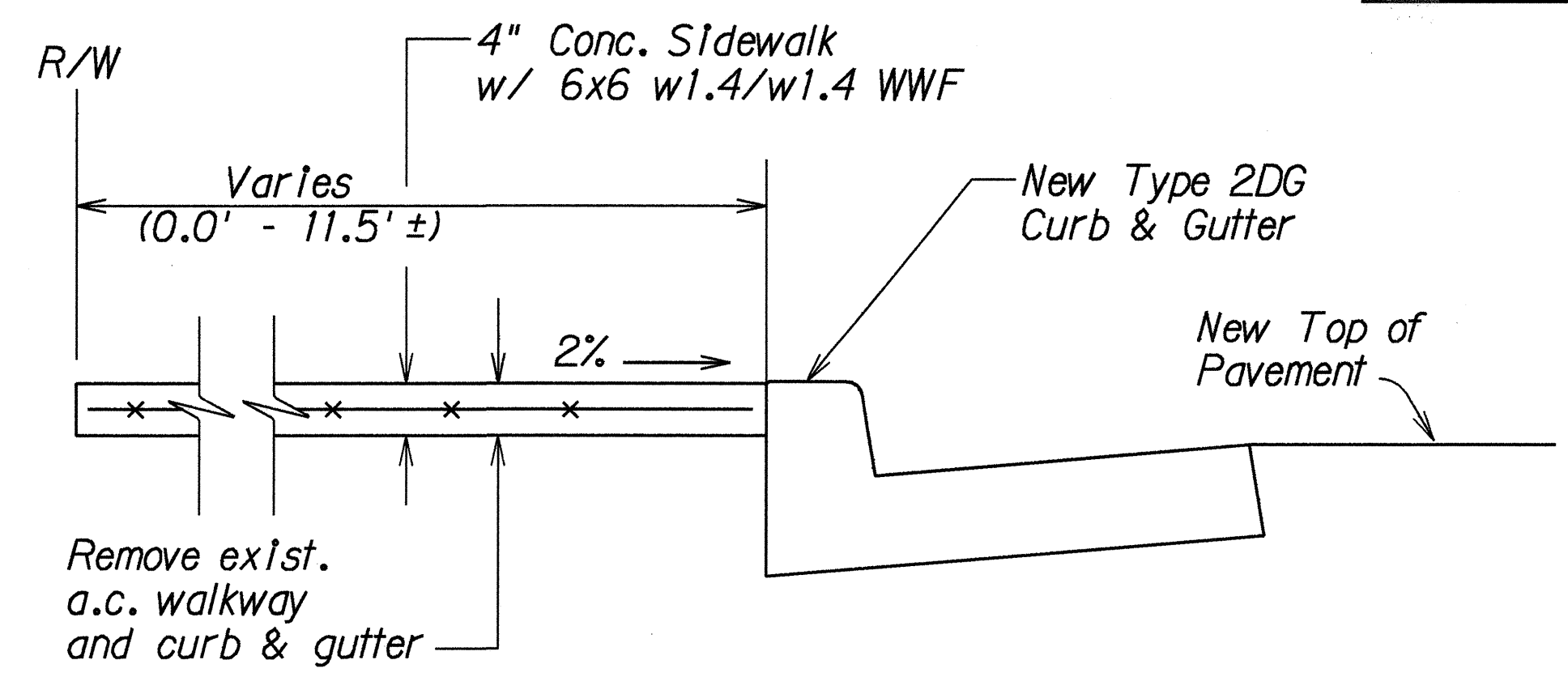
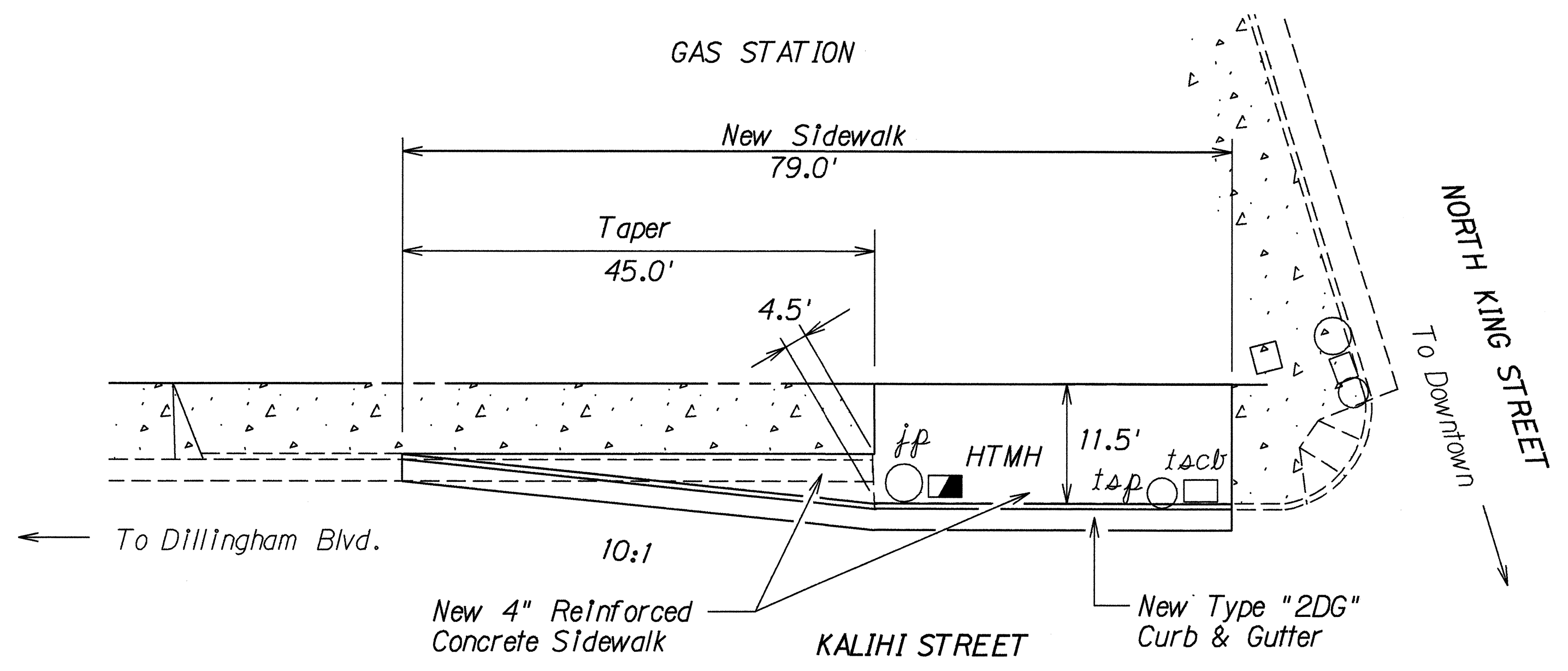
*Note: Kalihi St. Sta. 17+12± to Kalihi St. Sta. 17+34±

FACE OF :
ROCK WALL (Sta. 17+12± to Sta. 17+34±),
CMU WALL (Sta. 18+00± to Sta. 21+93±),
HEDGE (Sta. 21+93± to Sta. 22+53±),
or FENCE (Sta. 17+34± to Sta. 7+78±
and Sta. 22+53± to Sta. 23+32±).

6/21/95	Revise P.C.C Bus Stop Pav't. Detail Note No. 1 and Add Reinforced Conc. Sidewalk Detail.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION MISCELLANEOUS DETAILS LIKELIKE HIGHWAY RESURFACING F.A. Project No. NH-063-1(19) KALIHI STREET RESURFACING F.A. Project No. STP-063-1(20) Date: May, 1995	
SHEET No. 4 OF 5 SHEETS	

SURVEY PLOTTED BY	DATE	6/20/95
DRAWN BY		
TRACED BY		
QUANTITIES BY		
CHECKED BY		
ORIGINAL PLAN		
NOTE BOOK		
N.		

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	811

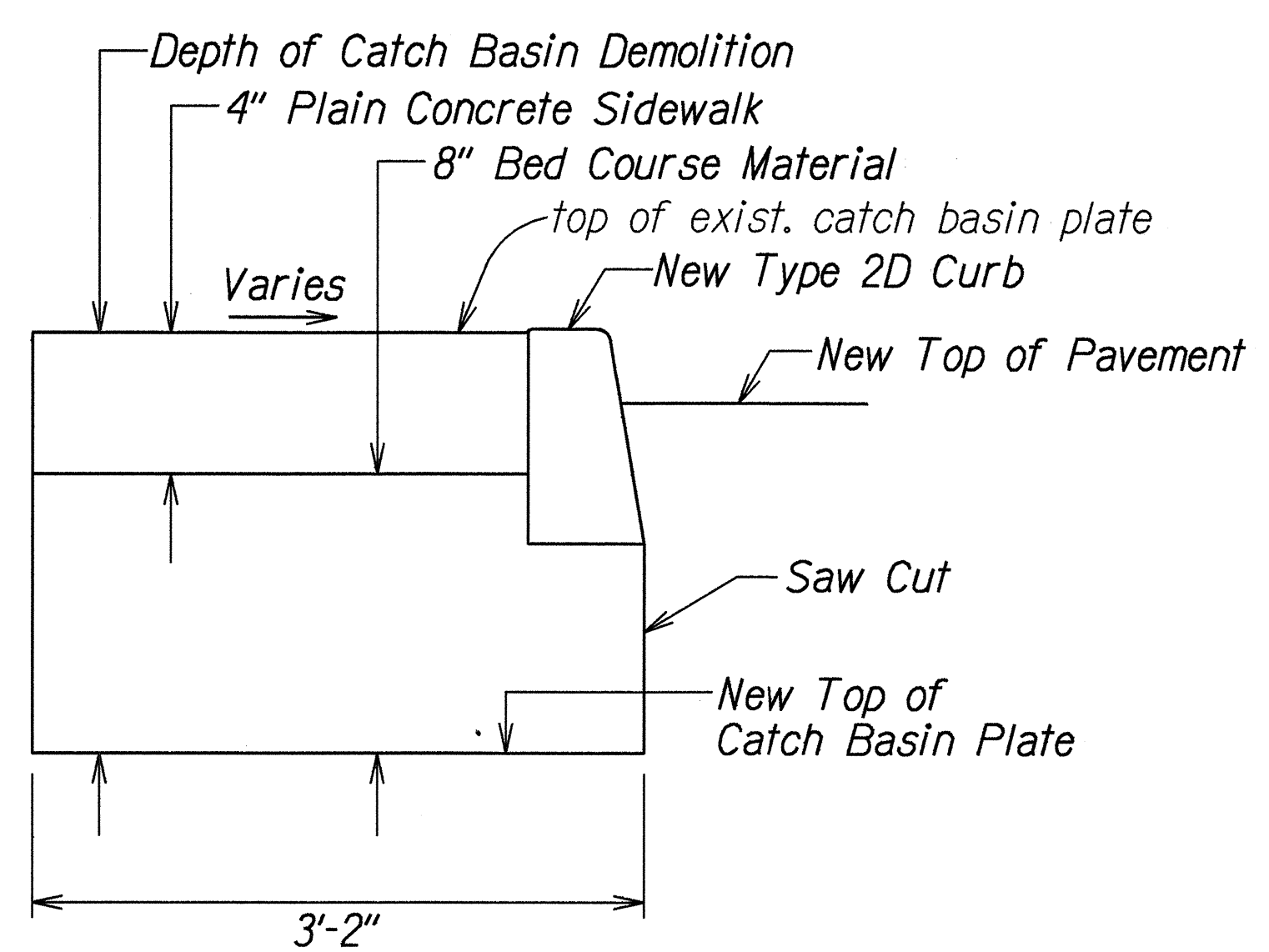


PLAN
Scale: 1"=10'

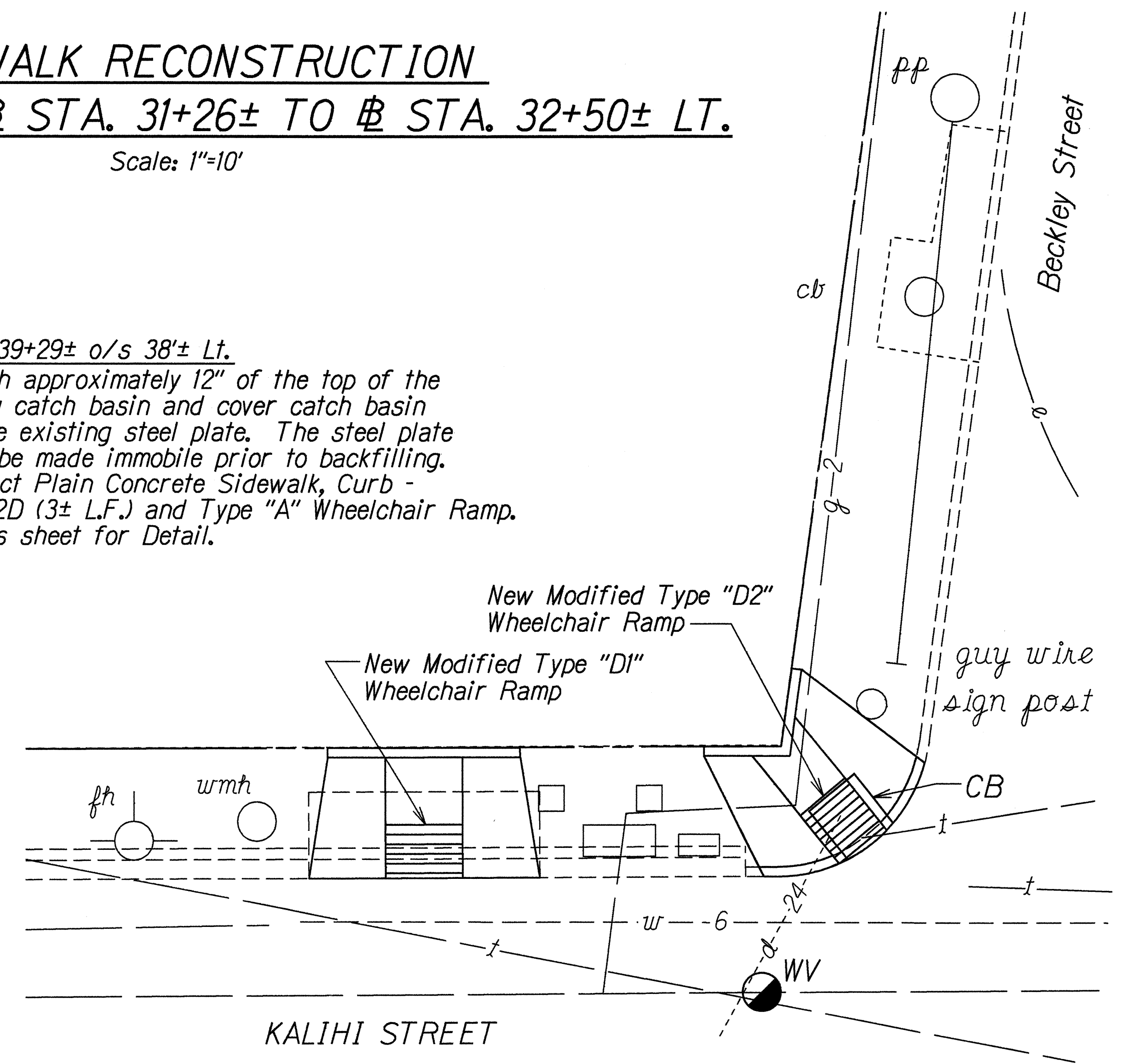
Note: Connect New Curbing and Sidewalk to Match Existing.

DETAIL
Not to Scale

SIDEWALK RECONSTRUCTION
KALIHI STREET @ STA. 31+26± TO @ STA. 32+50± LT.
Scale: 1"=10'



@ Sta. 39+29± o/s 38± Lt.
Demolish approximately 12" of the top of the existing catch basin and cover catch basin with the existing steel plate. The steel plate should be made immobile prior to backfilling. Construct Plain Concrete Sidewalk, Curb - Typem 2D (3± L.F.) and Type "A" Wheelchair Ramp. See this sheet for Detail.



DETAIL
Not To Scale

PARTIAL CATCH BASIN DEMOLITION
AND SIDEWALK RECONSTRUCTION
Scale As Shown

PLAN
Scale: 1"=5'

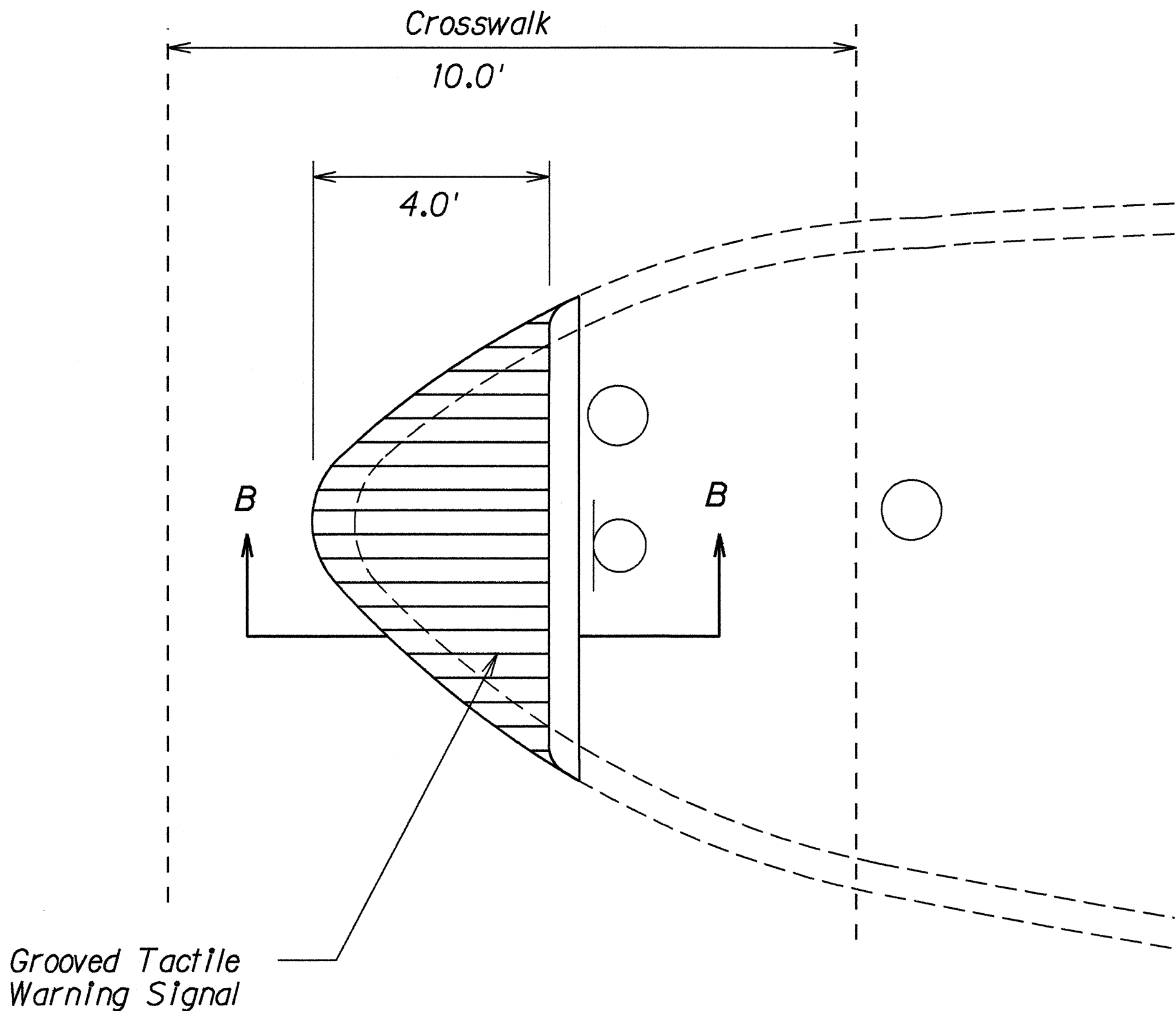
NOTE: Demolition and disposal of top of catch basin, covering of new top of catch basin, bedcourse, plain concrete sidewalk and all equipment, tools, labor and incidentals necessary to complete the work shall be considered incidental to Item No. 650.1000 - Wheelchair Ramp, Type "A".

11/20/95	Revise Wheelchair Ramp Types at Beckley St.
6/21/95	Revise "Sidewalk Reconstruction" Title, Catch Basin Detail Note, and Catch Basin Plan Note.

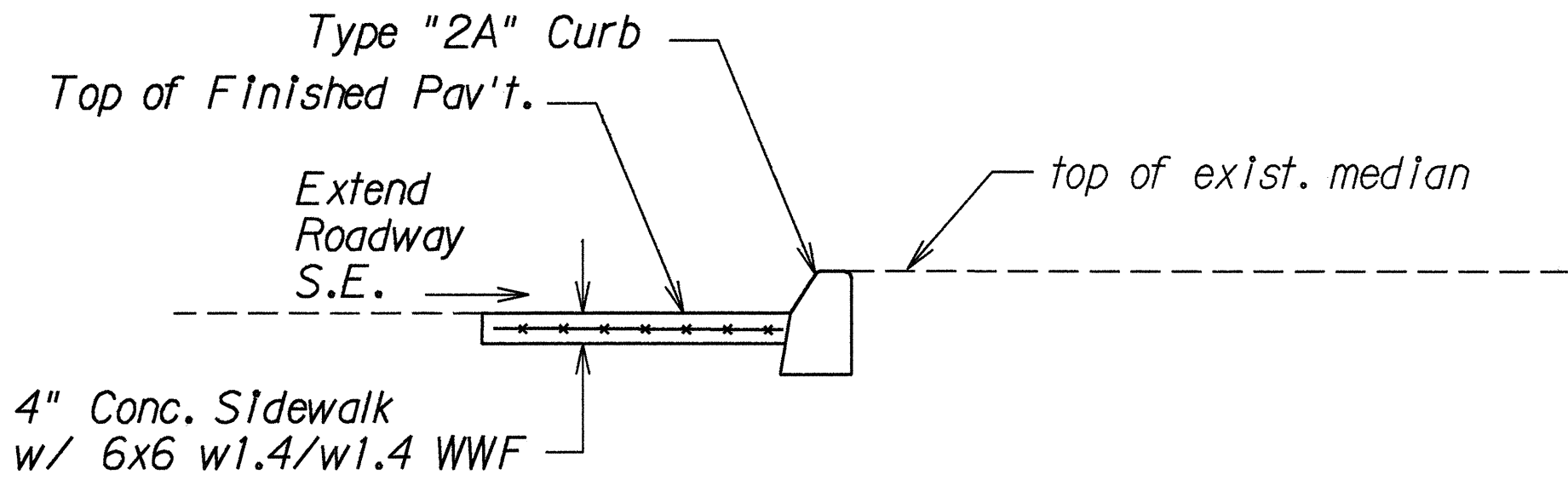
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION MISCELLANEOUS DETAILS LIKELIKE HIGHWAY RESURFACING F.A. Project No. NH-063-1(19) KALIHI STREET RESURFACING F.A. Project No. STP-063-1(20) Date: May, 1995	
SHEET No. 5 OF 5 SHEETS	

SURVEY PLOTTED BY	DATE
DRAWN BY	3/20/96
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	811



PLAN



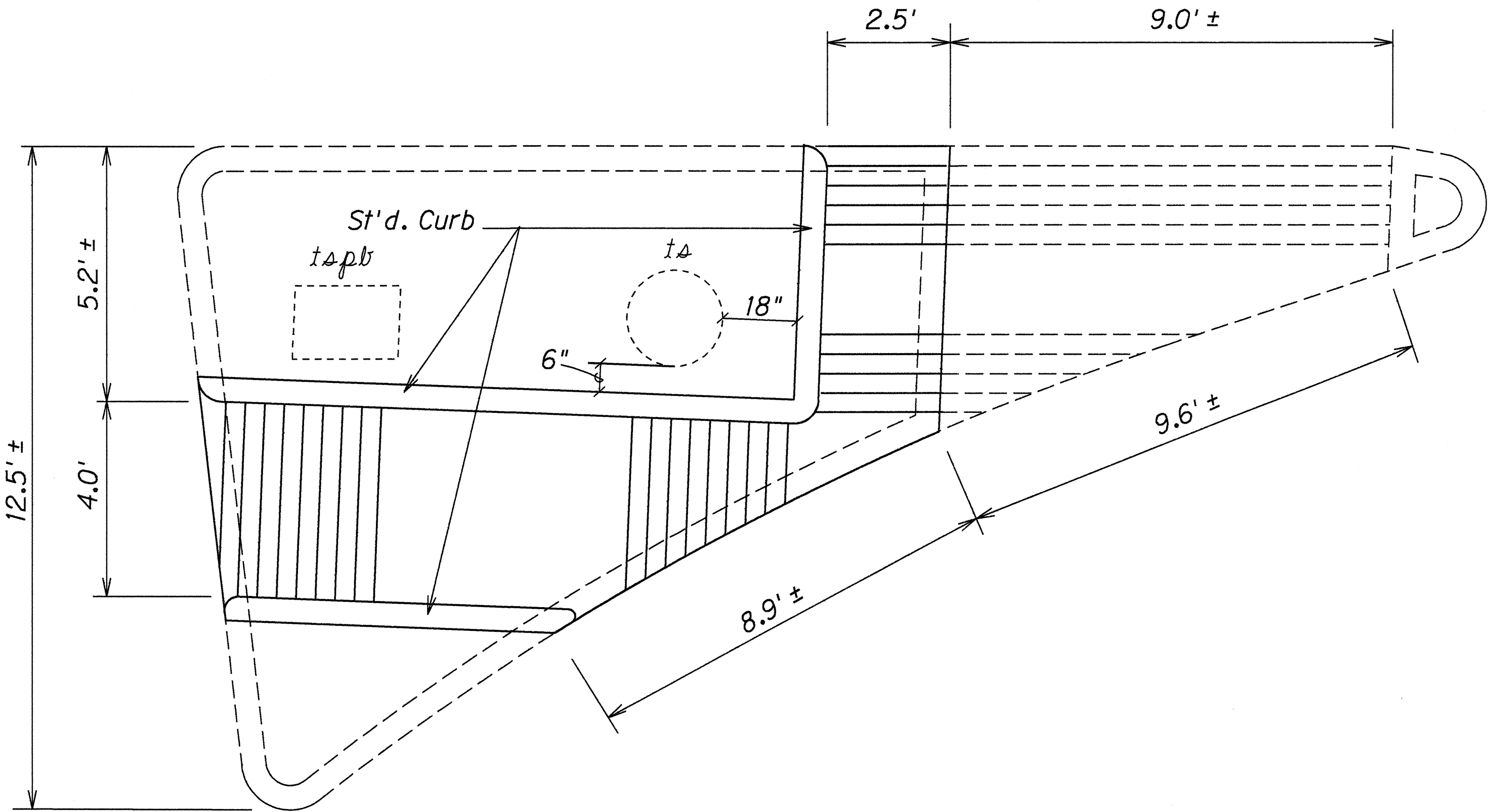
SECTION B-B

MODIFIED TYPE "C1" WHEELCHAIR RAMP DETAIL
Likelike Hwy. @ Sta. 14+60± Rt.

Scale: 1/2" = 1'-0"

NOTES:

- For additional Wheelchair Ramp details, see Section 650 - Wheelchair Ramps of the Special Provisions.
- All curbing angle points within the wheelchair ramps shall be rounded with R=6".
- Wheelchair Ramp widening shall be made part of "Modified Type "C2" Wheelchair Ramp" and will not be paid for separately.
- Curbs shall be considered incidental to the Wheelchair Ramps.



MODIFIED TYPE "C2" WHEELCHAIR RAMP &
WHEELCHAIR RAMP WIDENING DETAIL
Likelike Hwy. @ Sta. 15+00± Rt.

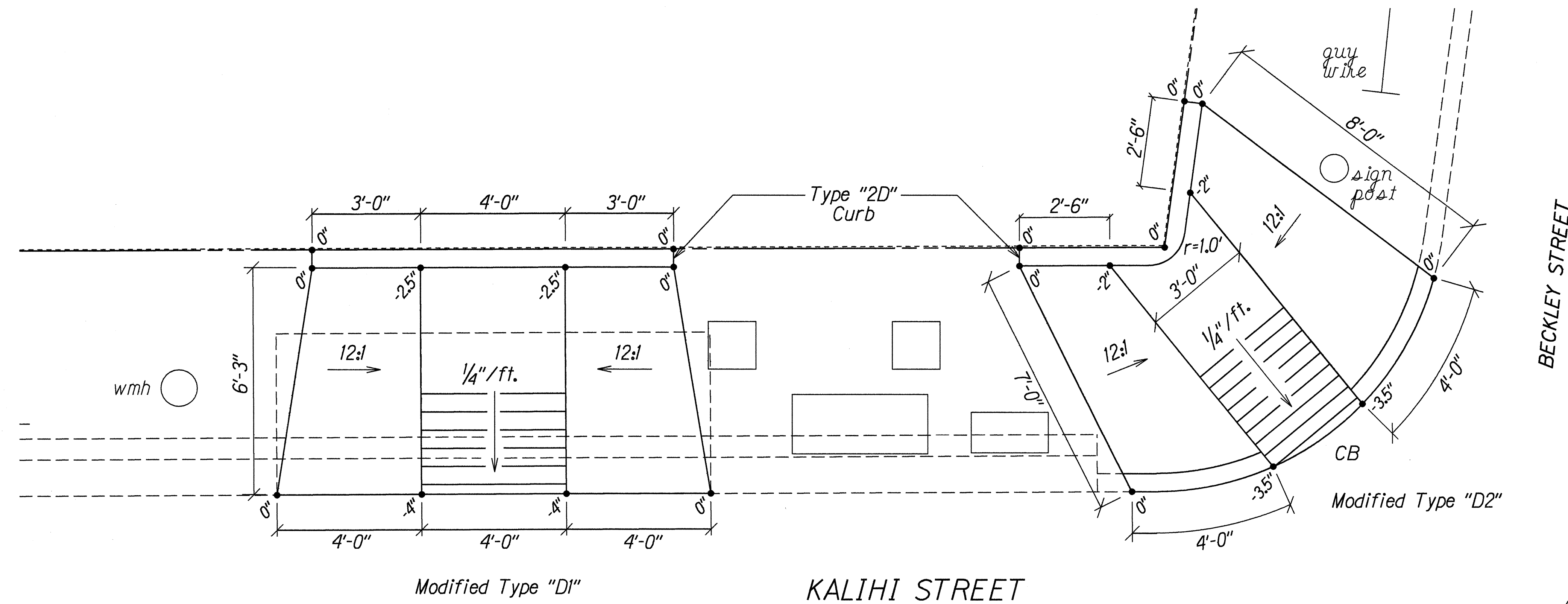
Scale: 1/2" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	6/20/95
	CHECKED BY	
	QUANTITIES BY	

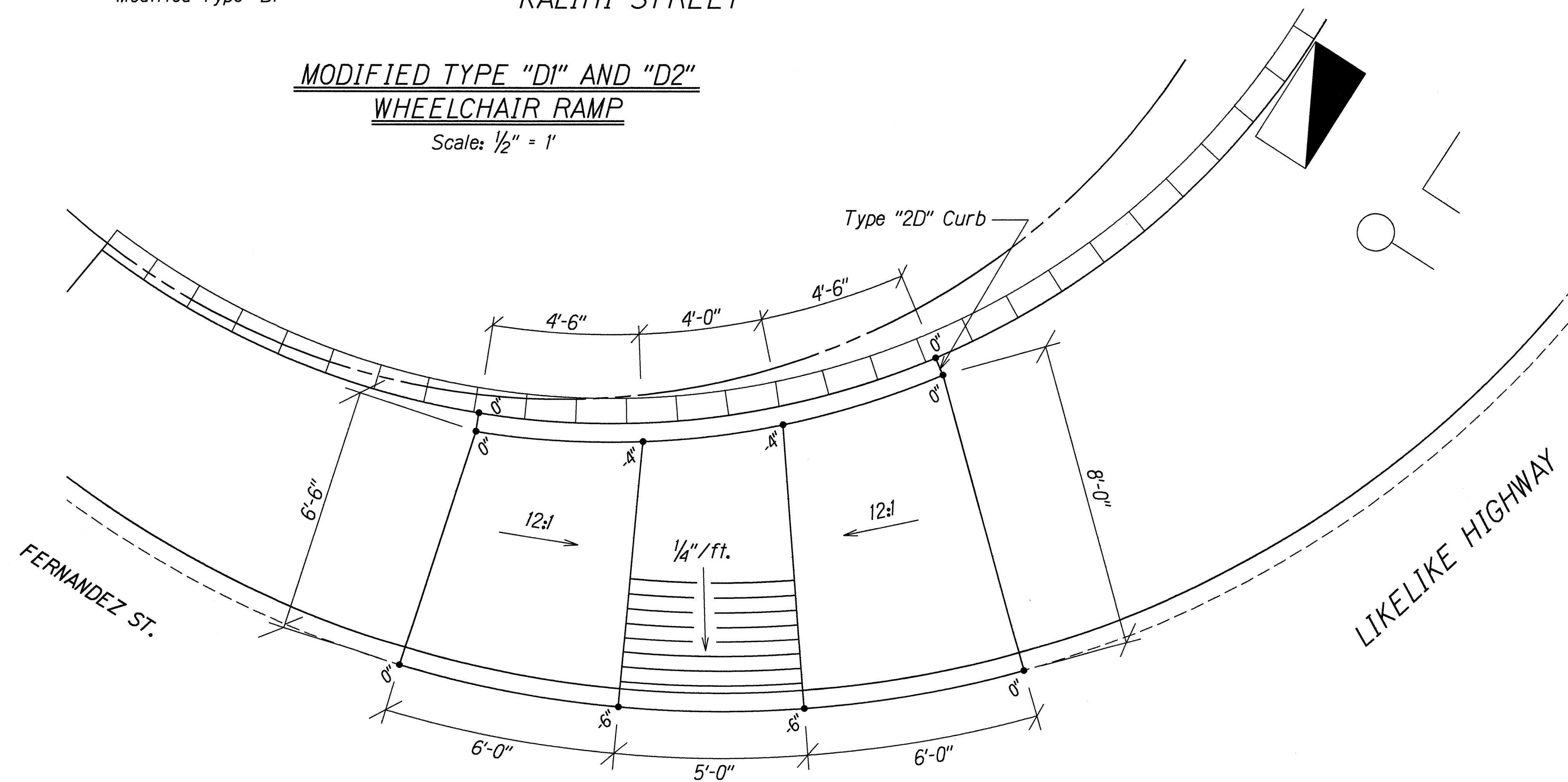
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS
LIKELIKE HIGHWAY RESURFACING
F.A. Project No. NH-063-1(19)
KALIHI STREET RESURFACING
F.A. Project No. STP-063-1(20)
Date: May, 1995

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-063-1(19)/STP-063-1(20)	1995	C.O. 13 S-2	78



MODIFIED TYPE "D1" AND "D2"
WHEELCHAIR RAMP
Scale: 1/2" = 1'



MODIFIED TYPE "D3" WHEELCHAIR RAMP
Scale: 1/2" = 1'

SURVEY PLOTTED BY	DATE
DRAWN BY	1/20/95
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

12/13/95	Additional Wheelchair Ramp Details
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS
LIKELIKE HIGHWAY RESURFACING
F.A. Project No. NH-063-1(19)

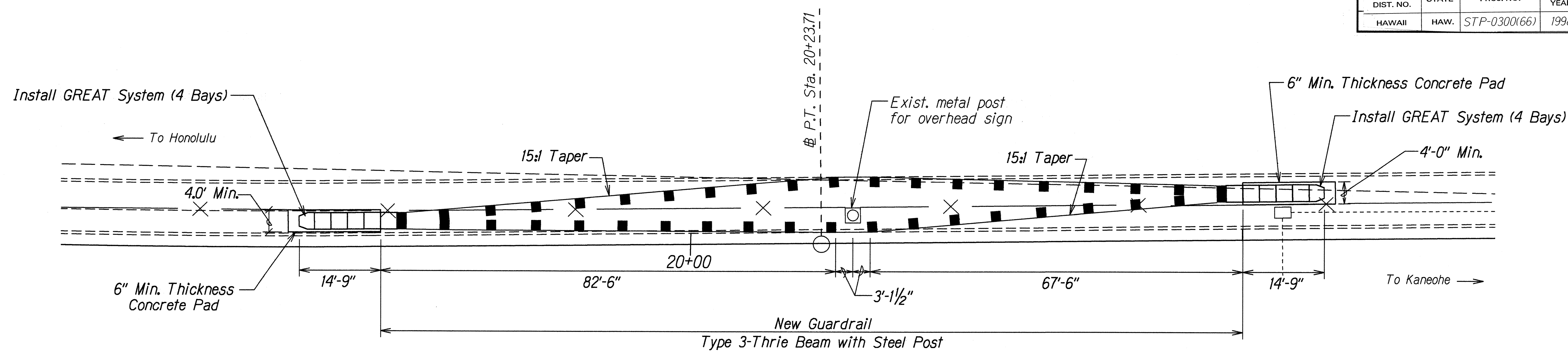
KALIHI STREET RESURFACING
F.A. Project No. STP-063-1(20)

Date: May, 1995

SHEET No. 5 OF 5 SHEETS

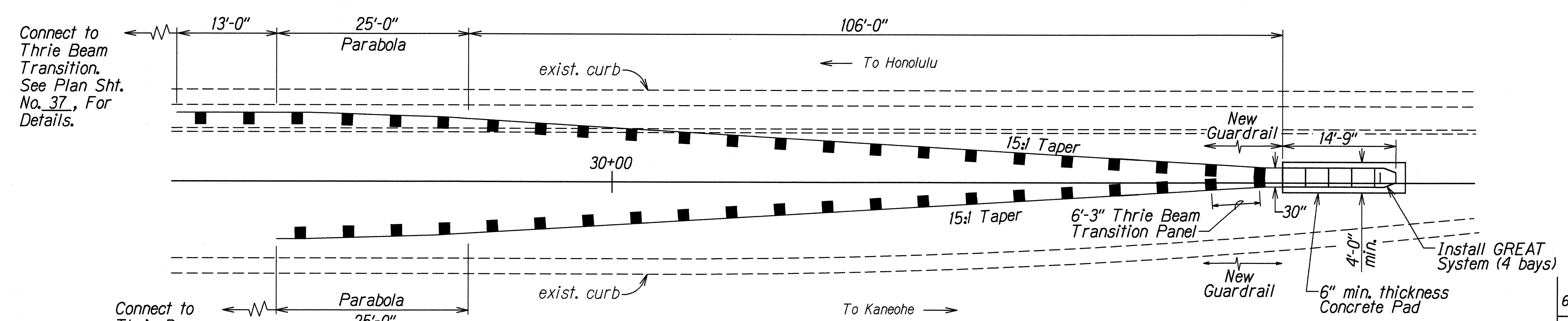
C.O. 13 S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	TOTAL SHEETS
HAWAII	HAW.	STP-0300(66)	1998	811



NOTE: Refer to Standard Plan TE-53, Metal Guardrail at Obstruction, for Post Spacing.

TYPICAL DETAIL - GREAT SYSTEM
KALIHI STREET @ STA 19+29± TO @ STA. 21+81± (MEDIAN)
 Scale: 1"=10'



TYPICAL DETAIL - GREAT SYSTEM
LIKELIKE HIGHWAY @ STA. 28+94± TO @ STA. 30+65± (MEDIAN)
 Scale: 1/8" = 1'-0"

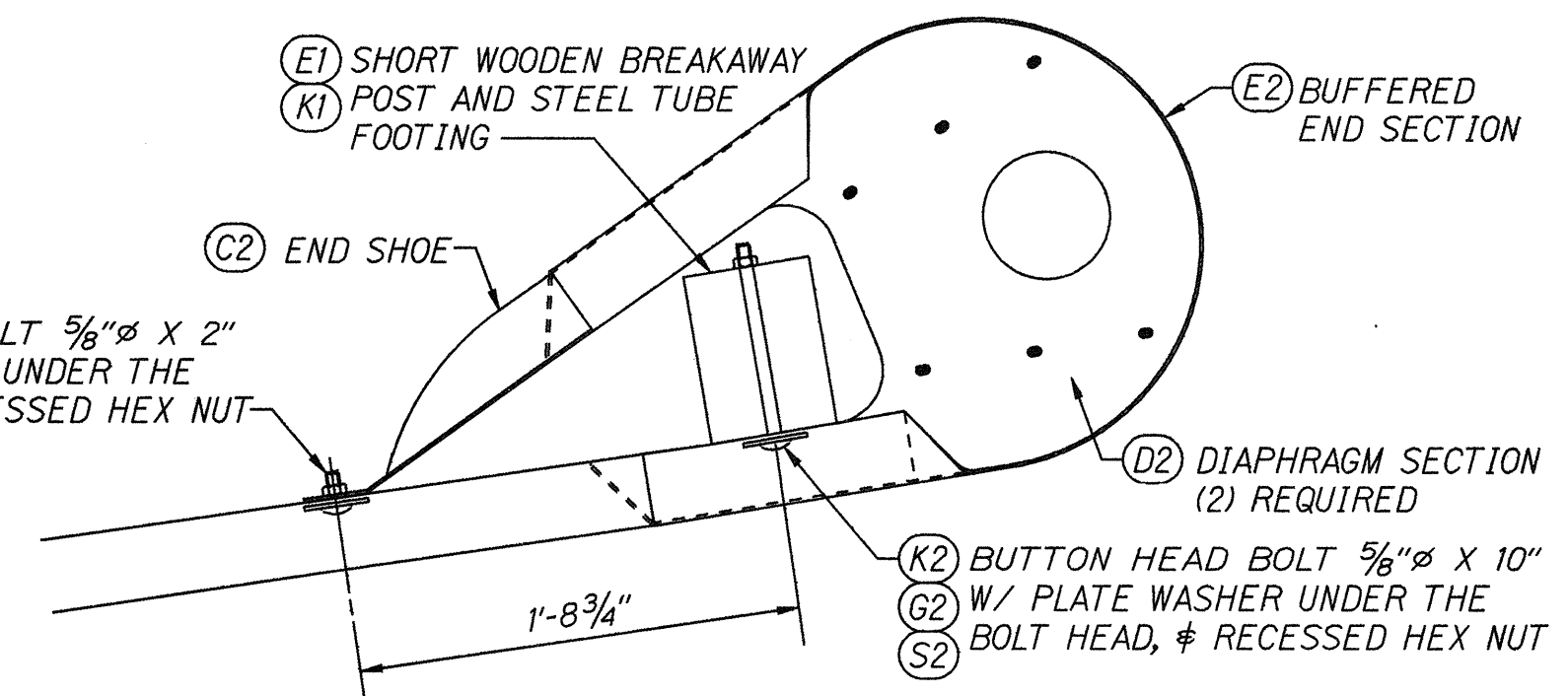
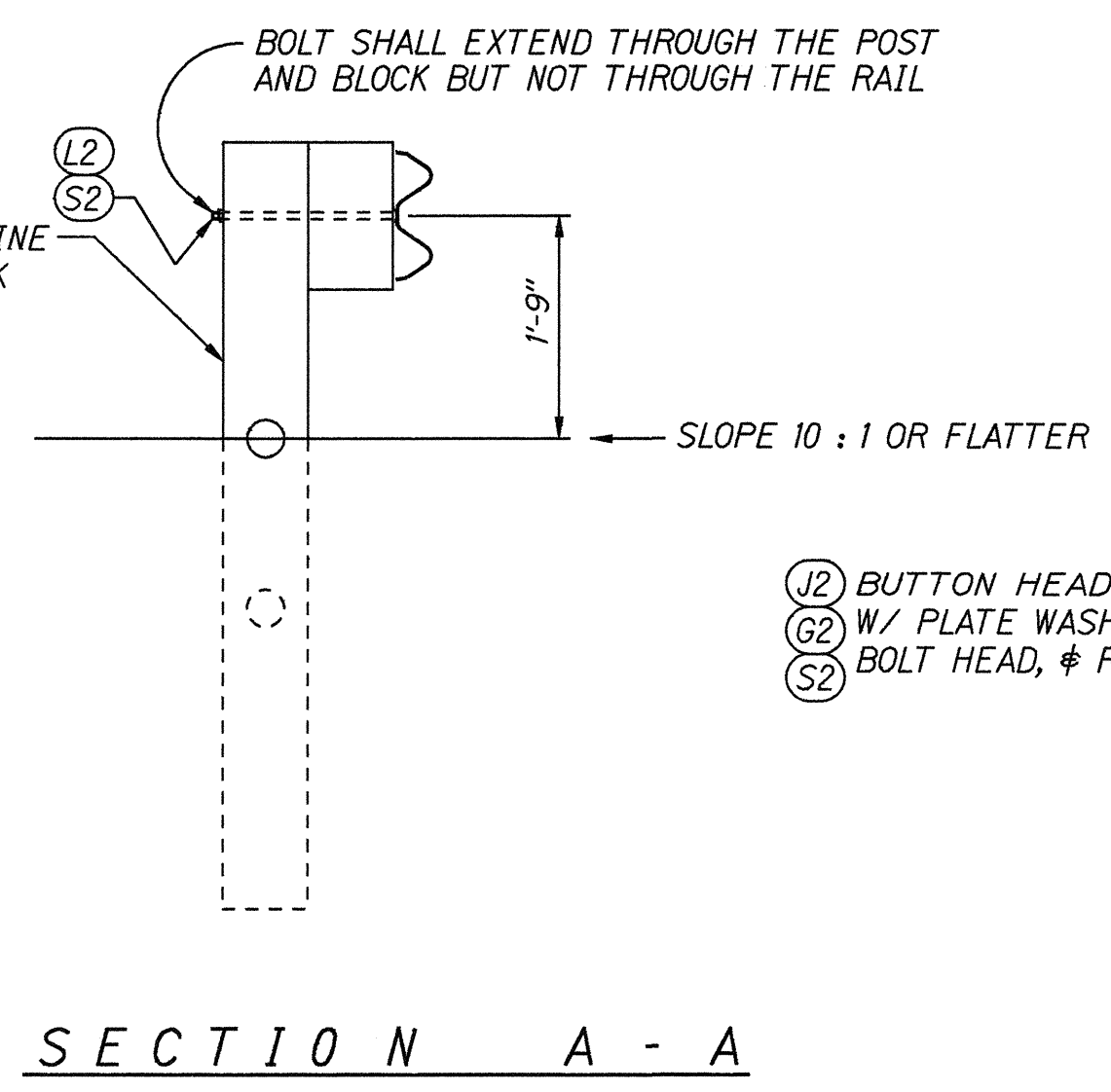
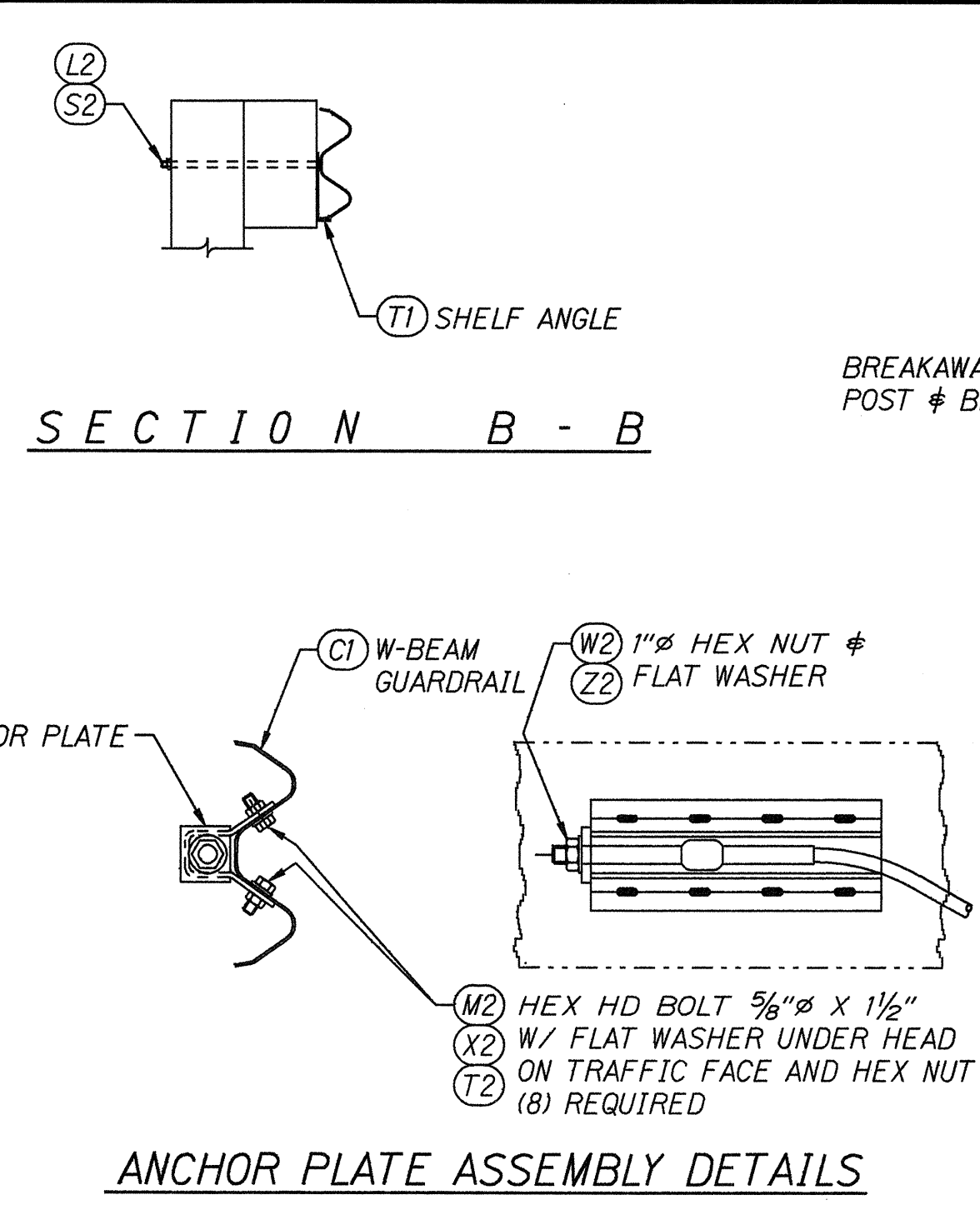
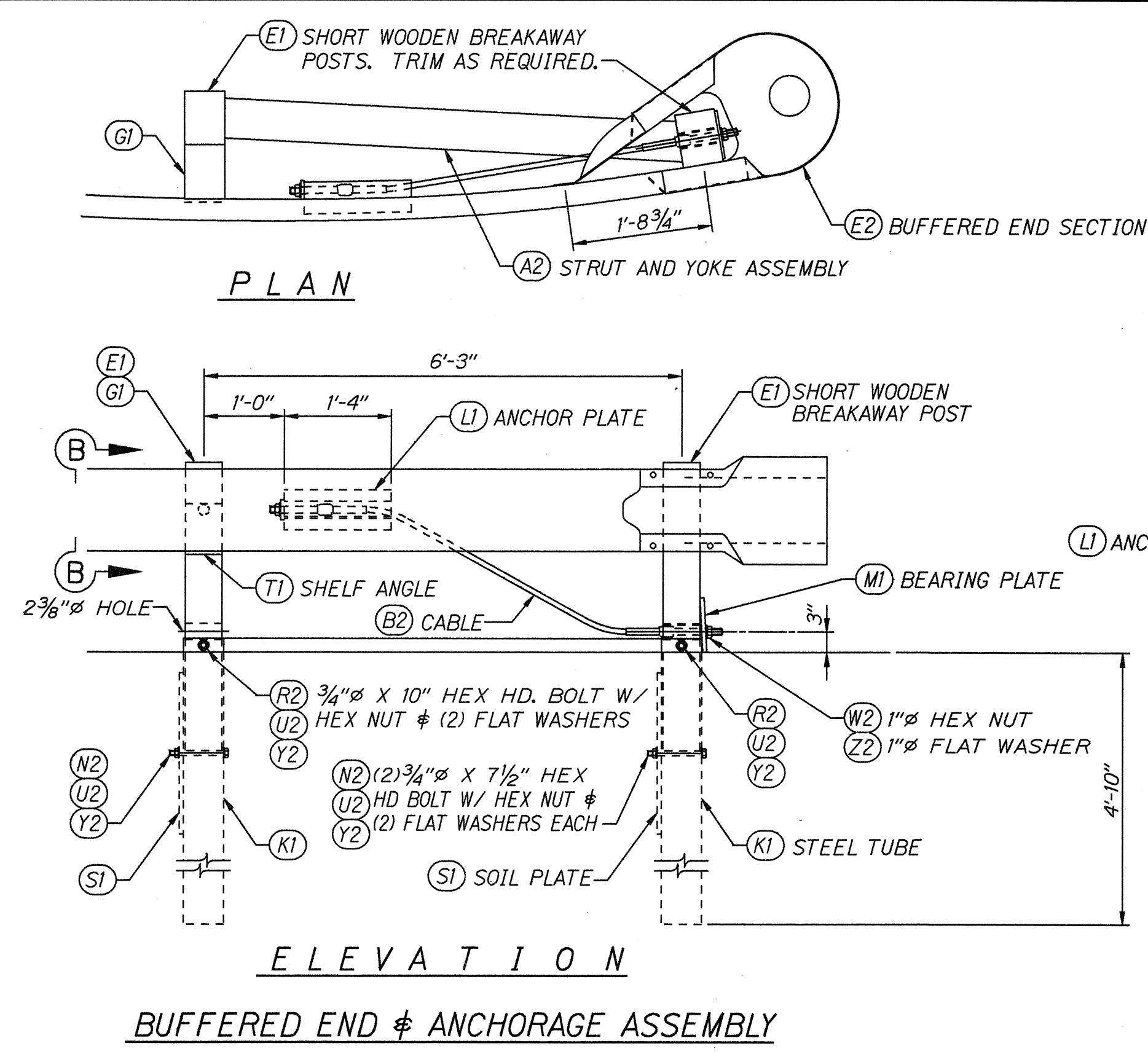
ORIGINAL PLAN	DATE
DRAWN BY M. Howells/L. Mitsuhashi	6/27/95
NOTED BY L. Yamane	
CHECKED BY N. Mitsuhashi	

6/21/95	Revise Top Detail Title
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
GUARDRAIL DETAILS	
LIKELIKE HIGHWAY RESURFACING F.A. Project No. NH-063-1(19)	
KALIHI STREET RESURFACING F.A. Project No. STP-063-1(20)	
Date: May, 1995	
SHEET No. 1 OF 5 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-063-1(19)/STP-063-1(20)	1995	16	78

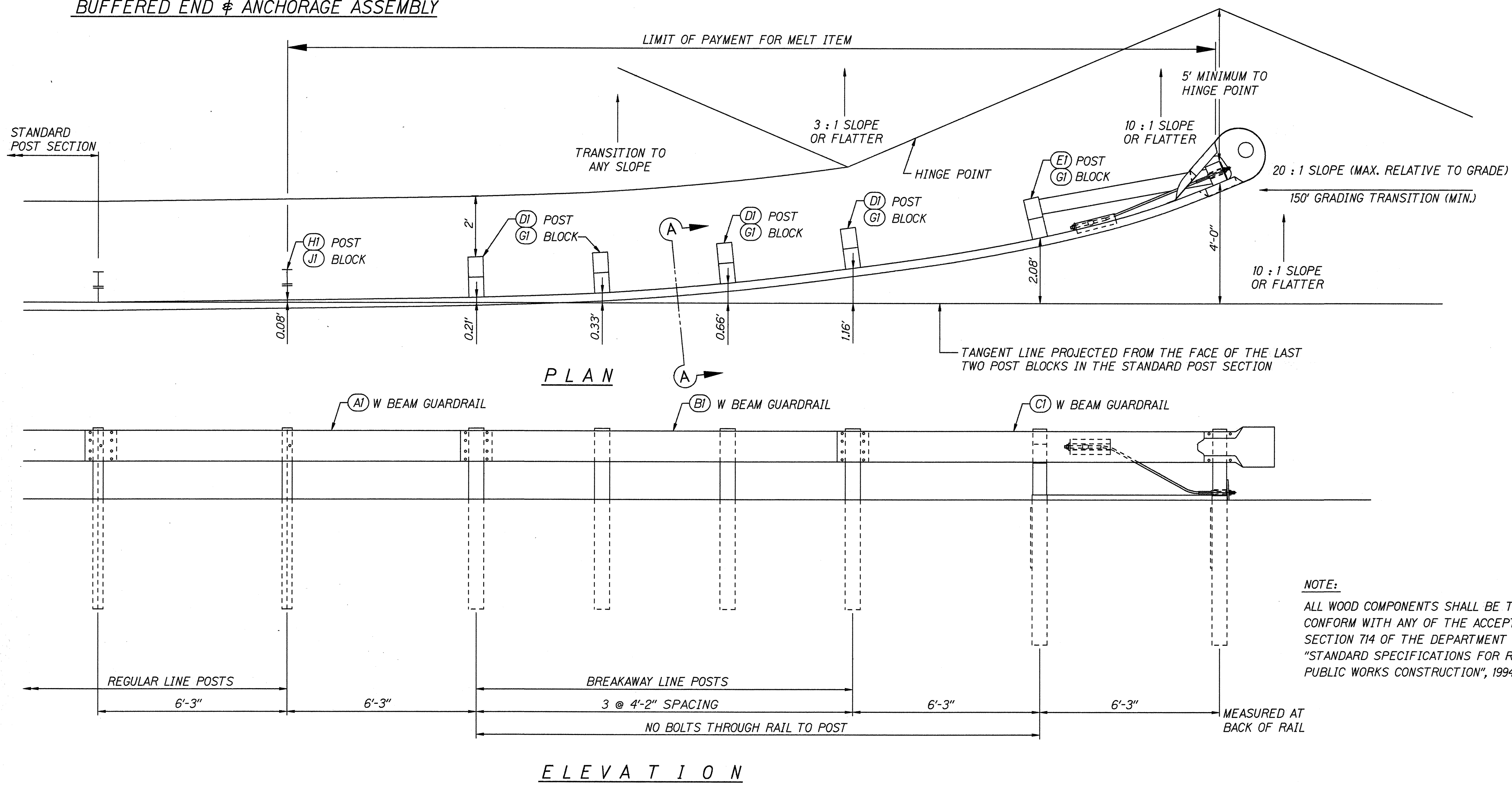
NOTES

1. THE POST OFFSET DIMENSIONS ARE GIVEN TO THE CENTER OF THE TRAFFIC FACE OF THE BLOCKOUTS, EXCEPT AT THE FIRST POST, WHERE THE DIMENSION IS TO THE CENTER OF THE TRAFFIC FACE OF THE POST. OFFSET POINTS ARE TO BE LOCATED BY CHORD MEASUREMENTS AT THE BACK OF THE RAIL EQUAL TO THE NOMINAL POST SPACINGS SHOWN. POSTS ARE TO BE SET APPROXIMATELY RADIAL TO THE RAILING AT EACH POST LOCATION.



SUMMARY OF COMPONENTS

FIND NO.	DESCRIPTION
(A1)	GUARDRAIL, 12GA X 12'-6"
(B1)	GUARDRAIL, 12GA X 12'-6"
(C1)	GUARDRAIL, 12GA X 12'-6"
(D1)	BREAKAWAY LINE POST, TIMBER - 6" X 8" X 6'-0"
(E1)	BREAKAWAY POST, TIMBER - 5 1/2" X 7 1/2" X 3'-6 1/2"
(G1)	BLOCK, TIMBER - 5 1/2" X 7 1/2" X 1'-2"
(H1)	POST - W6 X 8.5 X 6'-0"
(J1)	BLOCK - W6 X 8.5 X 1'-2"
(K1)	SOIL TUBE - TS 8 X 6 X .188 X 5'-0"
(L1)	CABLE ANCHOR BRACKET
(M1)	BEARING PLATE
(R1)	PIPE SPACER
(S1)	SOIL PLATE
(T1)	SHELF ANGLE
(A2)	STRUT & YOKE ASSEMBLY
(B2)	CABLE ASSEMBLY
(C2)	END SHOE
(D2)	DIAPHRAGM PLATE
(E2)	BUFFERED END SECTION
(G2)	WASHER, PLATE
(H2)	BOLT, SPLICE 5/8" X 1 1/4"
(J2)	BOLT, POST 5/8" X 2"
(K2)	BOLT, POST 5/8" X 10"
(L2)	BOLT, POST 5/8" X 18"
(M2)	BOLT, HEX 5/8" X 1 1/2"
(N2)	BOLT, HEX 3/4" X 7 1/2"
(R2)	BOLT, HEX 3/4" X 10"
(S2)	NUT, HEX, RECESSED 5/8"
(T2)	NUT, HEX 5/8"
(U2)	NUT, HEX 3/4"
(W2)	NUT, HEX 1"
(X2)	WASHER, FLAT 5/8"
(Y2)	WASHER, FLAT 3/4"
(Z2)	WASHER, FLAT 1"



NOTE:
ALL WOOD COMPONENTS SHALL BE TREATED TO CONFORM WITH ANY OF THE ACCEPTED METHODS IN SECTION 714 OF THE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND PUBLIC WORKS CONSTRUCTION", 1994.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MODIFIED ECCENTRIC LOADER

TERMINAL (MELT)

POST LAYOUT & ERECTION DETAILS

LIKEHIGHWAY RESURFACING

F.A. Project No. NH-063-1(19)

KALIHI STREET RESURFACING

F.A. Project No. STP-063-1(20)

Not to Scale Date: Feb, 1995

SHEET No. 3 OF 5 SHEETS

SURVEY PLOTTED BY	DATE	5/31/95
DRAWN BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		
ORIGINAL PLAN		
NOTE BOOK		
FILED		
DATE		
BY		

