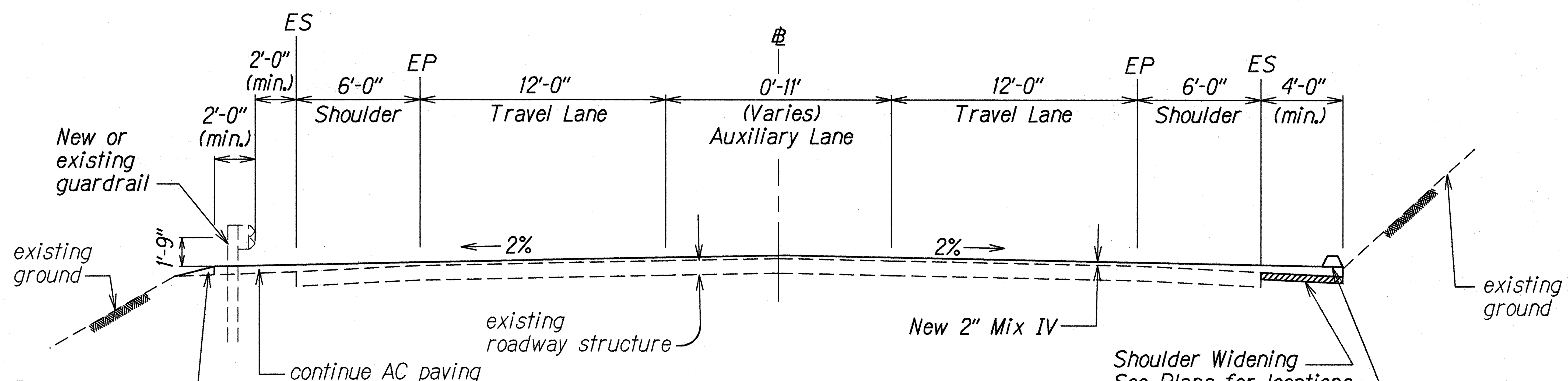
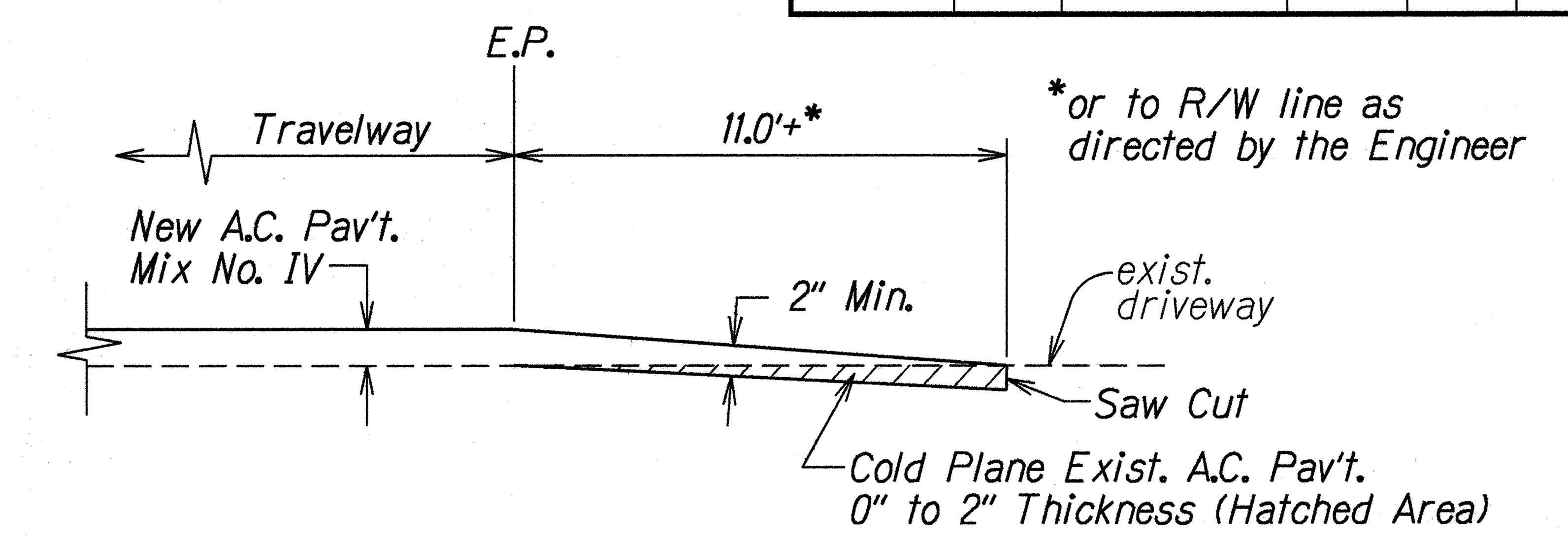
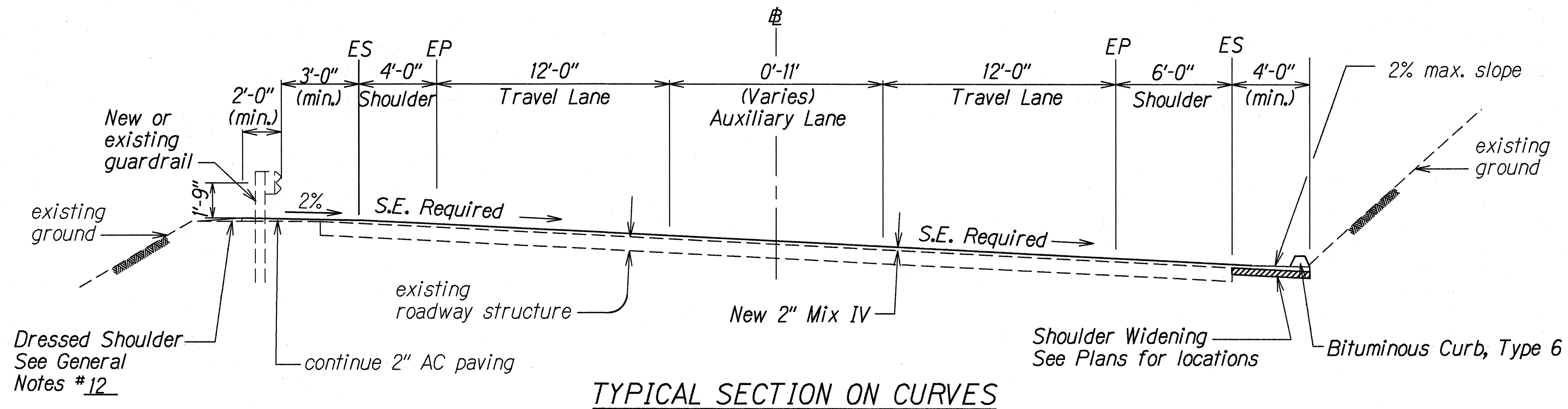
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-97M	1997	ADD.4	22



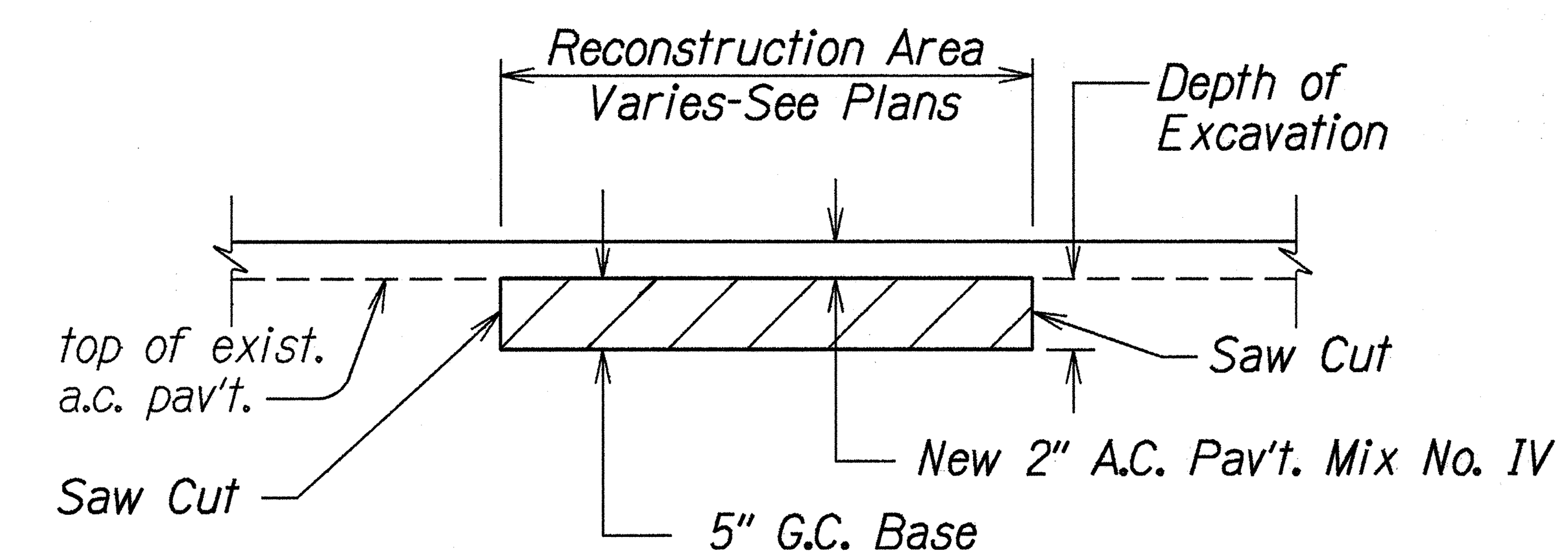
TYPICAL SECTION ON TANGENTS
WAIEHU BEACH ROAD
Scale: 1/4" = 1'-0"



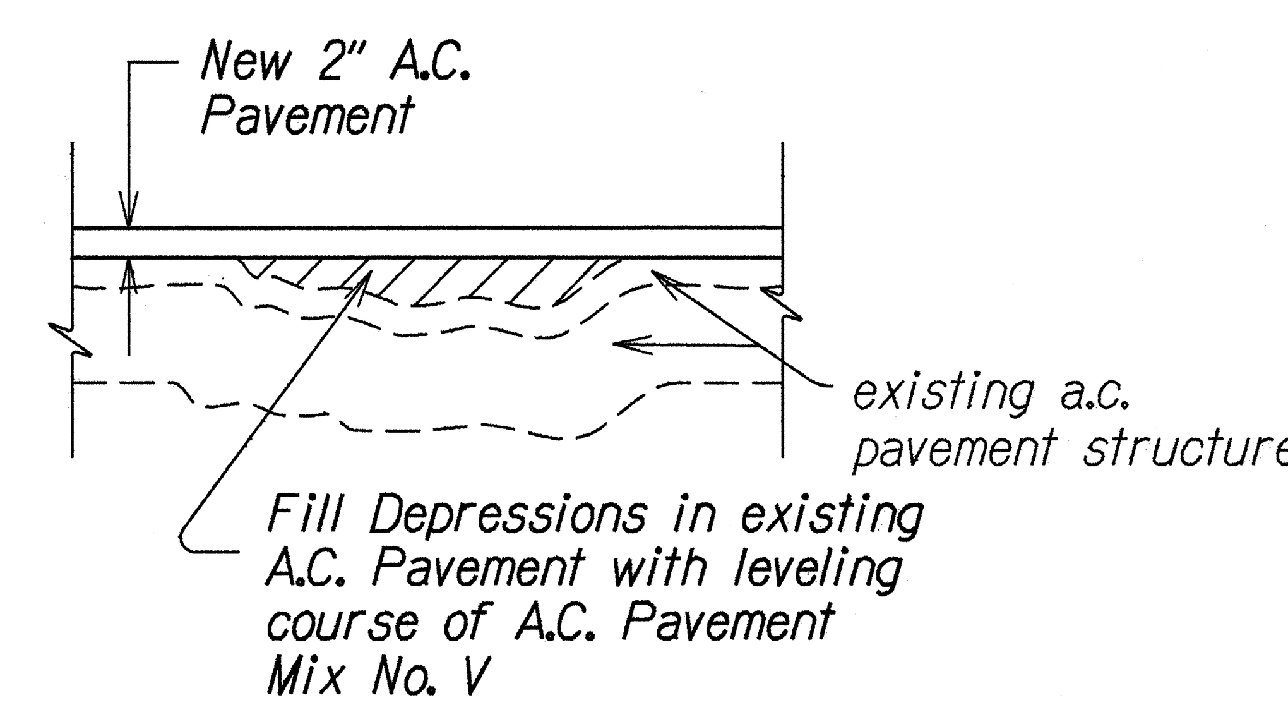
SIDE ROAD PAVING TRANSITION DETAIL
Not To Scale



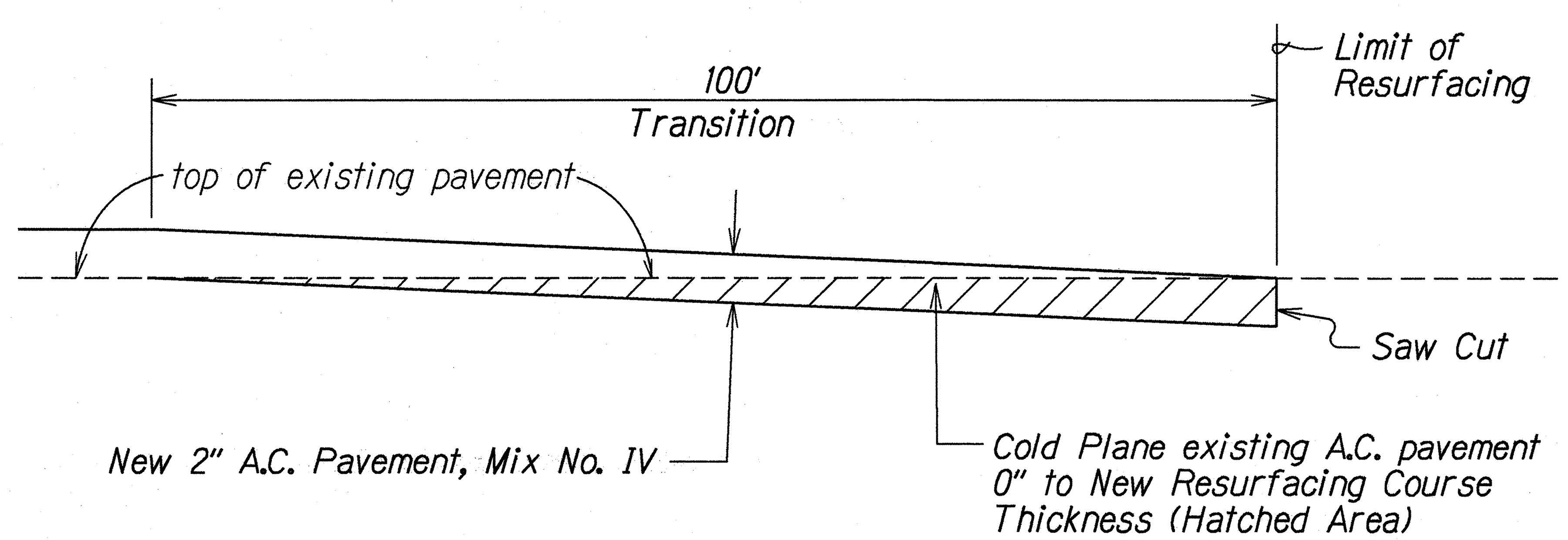
TYPICAL SECTION ON CURVES
WAIEHU BEACH ROAD
Scale: 1/4" = 1'-0"



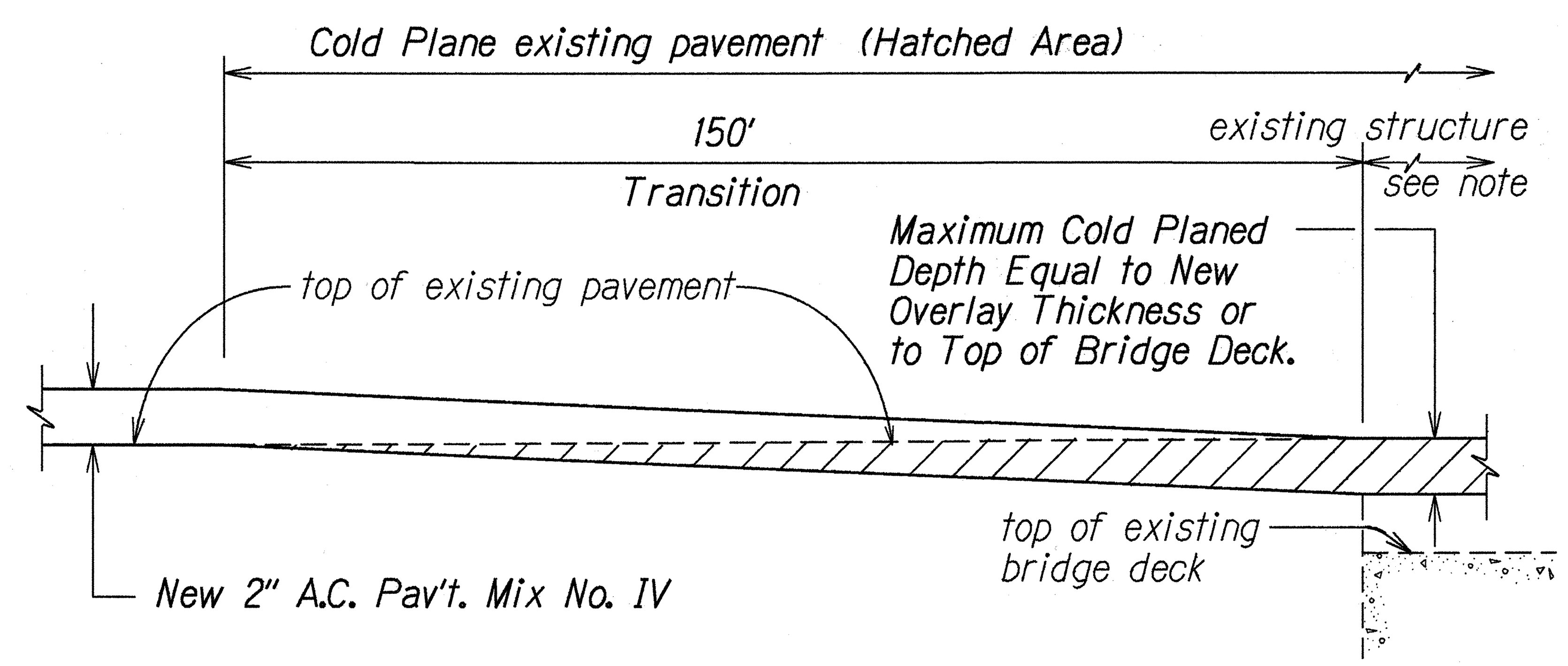
A.C. PAVEMENT RECONSTRUCTION DETAIL
Not To Scale



LEVELING COURSE DETAIL
Not To Scale



COLD PLANED TRANSITION DETAIL
BEGIN ℄ END PROJECT
Not To Scale



Note: In cold planing the pavement over the structure, the Contractor shall exercise care not to damage any portion of the structure, especially the slab, joints, drainage pipes or reinforcement. Any damage to the structure during the cold planing operations shall be repaired by the Contractor at his expense. Repair work shall be directed by the Engineer. The Contractor shall verify the thickness of the pavement by taking several measurements throughout the structure.

COLD PLANED TRANSITION AND RESURFACING
OVER EXISTING STRUCTURE
Not to Scale

DATE	REVISION
5-21-97	Revise existing shoulder slopes. Revise New shoulder slope per Addendum No. 2.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS ℄ DETAILS

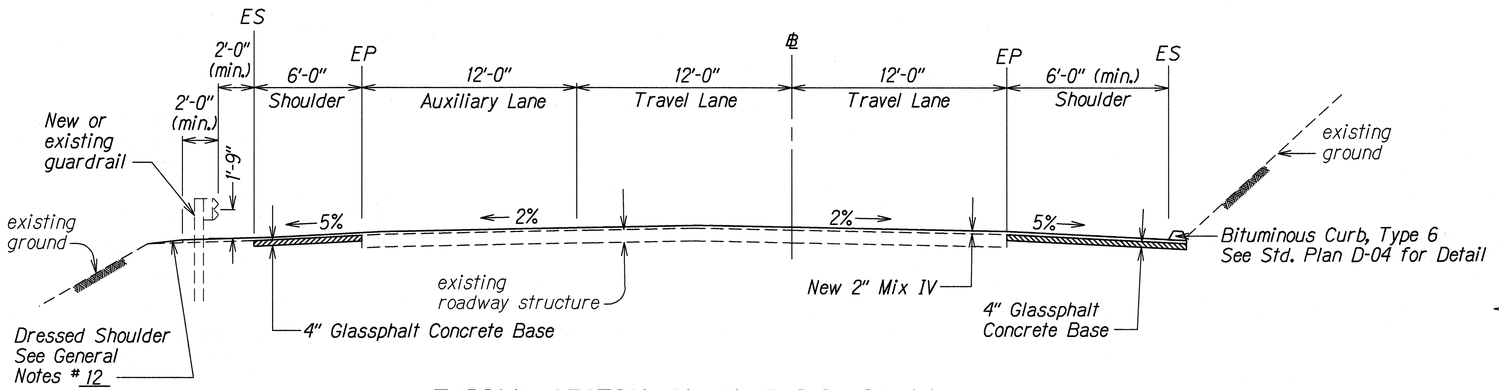
WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-97M

Scale: As Shown Date: April 1997

SHEET No. 1 OF 1 SHEETS

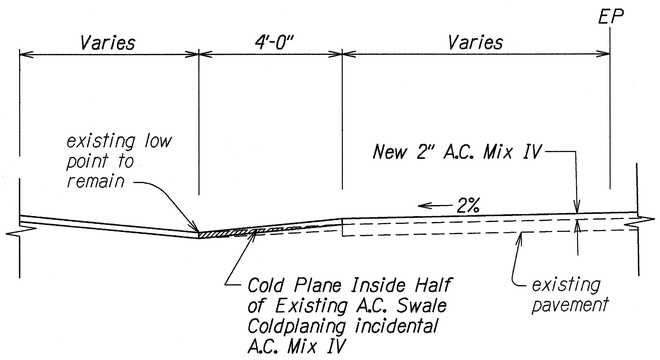
ADD.4

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-97M	1997	ADD.5	22



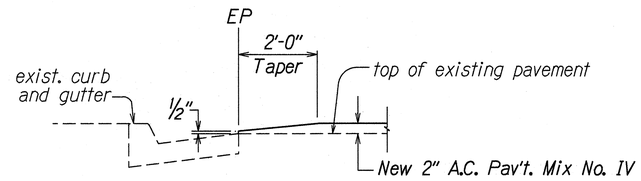
TYPICAL SECTION ON KAHEKILI HIGHWAY

Scale: 1/4" = 1'-0"



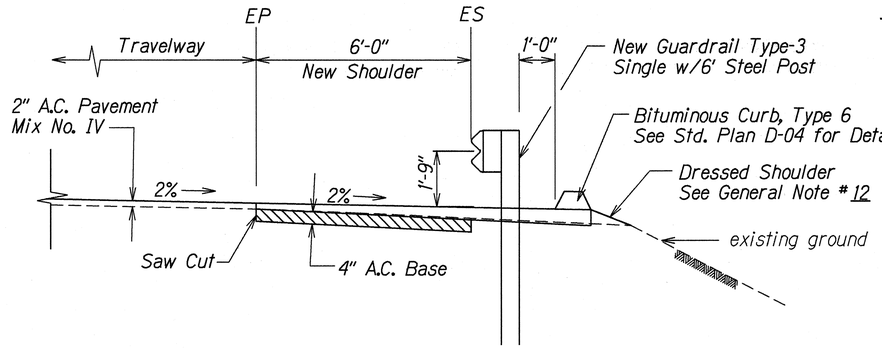
TYPICAL DETAIL OF A.C. SWALE RECONSTRUCTION WAIEHU BEACH ROAD ℄ STA. 28+10± LT. - 30+30± LT.

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



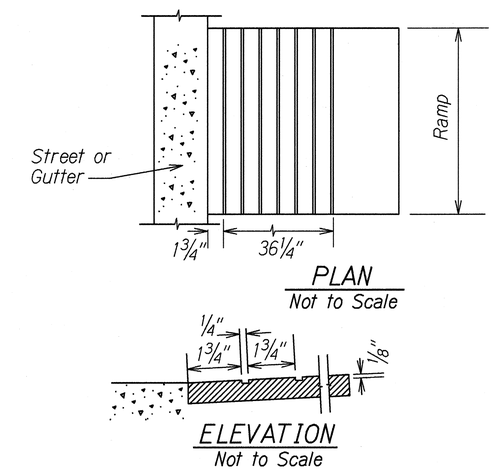
RESURFACING AT CURB AND GUTTER WITH TAPER ENDING AT EDGE OF GUTTER

Not To Scale



TYPICAL SECTION FOR A.C. CURB

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



PLAN

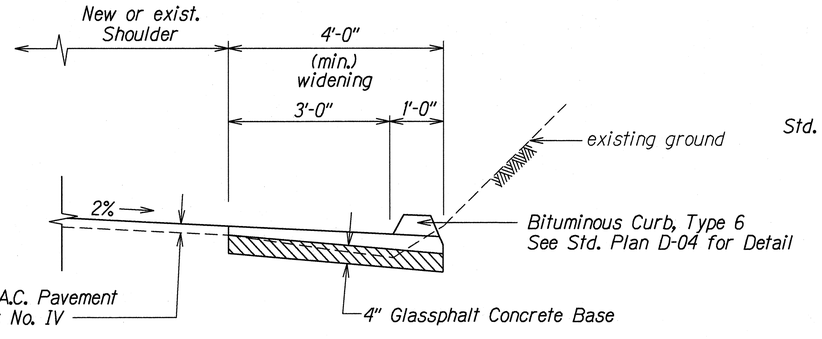
Not to Scale

ELEVATION

Not to Scale

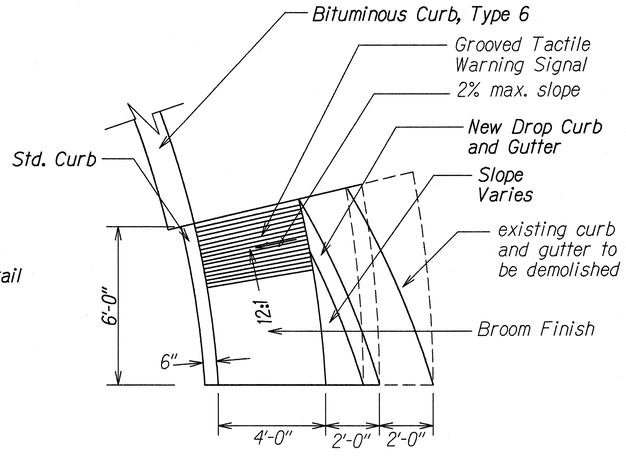
GROOVED TACTILE WARNING SIGNAL

Not to Scale



TYPICAL SECTION ON SHOULDER WIDENING

Scale: 3/4" = 1'-0"



MODIFIED TYPE "D" WHEELCHAIR RAMP

Scale: 3/8"=1'

DATE	REVISION
6-10-97	Revise "Modified Type 'E' " to "Modified Type 'D' " Wheelchair Ramp per Addendum No. 2.
5-21-97	Revise New and existing shoulder slopes, add Ramp allowable maximum slope per Addendum No. 2.

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY JC/mh/PW DATE 6/12/97
TRACED BY
DESIGNED BY TM
NOTE BOOK dtl mh 1wb
QUANTITIES BY
CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS & DETAILS

WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-97M

Scale: As Shown Date: April 1997

SHEET No. 1 OF 1 SHEETS

ADD. 5

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-97M	1997	ADD.5S-1	22

CURB RAMP NOTES:

1. The New Gutter fronting the curb ramps shall not exceed a slope of 20:1 maximum Areas without a gutter shall be handled on a case by case basis in order to meet the 20:1 maximum slope requirement.

2. The New Gutter fronting the 6'-0" minimum flares on both sides of the New Curb Ramps shall have a transition slope from 20:1 maximum to the existing gutter slope.

3. When the curb exceeds the standard 6" height, the side flares and ramp may be greater than 6'-0" in order to meet the 12:1 maximum slope requirement.

4. Curb Ramps shall be reinforced if adjacent sidewalks are reinforced.

5. All new adjacent sidewalks should have a minimum width of 6'-0" excluding the curb and the cross slope shall not exceed 50:1.

6. The Contractor shall use the Edge of Pavement (E.P.) fronting the new curb ramp or gutter as the control elevation when constructing the New Curb Ramp or Curb Ramp with gutter.

7. The New Standard Curb shall be 12" wide at signalized intersection or mid-block pedestrian crossings. For sidewalk width, excluding curb, is less than 4'-0", an Engineer approved, modified sidewalk with a minimum 3'-0" wide curb ramp and a 12" wide standard curb shall be installed.

8. The width of Curb Ramp including curbs shall match the width of the sidewalk. When the sidewalk width is less than 4'-0", an Engineer approved, modified sidewalk with a minimum 3'-0" wide curb ramp excluding curbs shall be installed. Standard curbs shall be installed on all Type "D" and Modified Type "D" Curb Ramps.

GENERAL NOTES:

1. When necessitated by existing physical conditions, alternate Curb Ramps may be used subject to Engineer's approval.

2. Subject to field conditions, the Engineer shall determine final location of Curb Ramp.

3. Where necessary, pullboxes, handholes, manholes, etc. shall be adjusted to match Curb Ramp grade. Adjustments shall not be paid for sepatately but shall be considered incidental to the various wheelchair items.

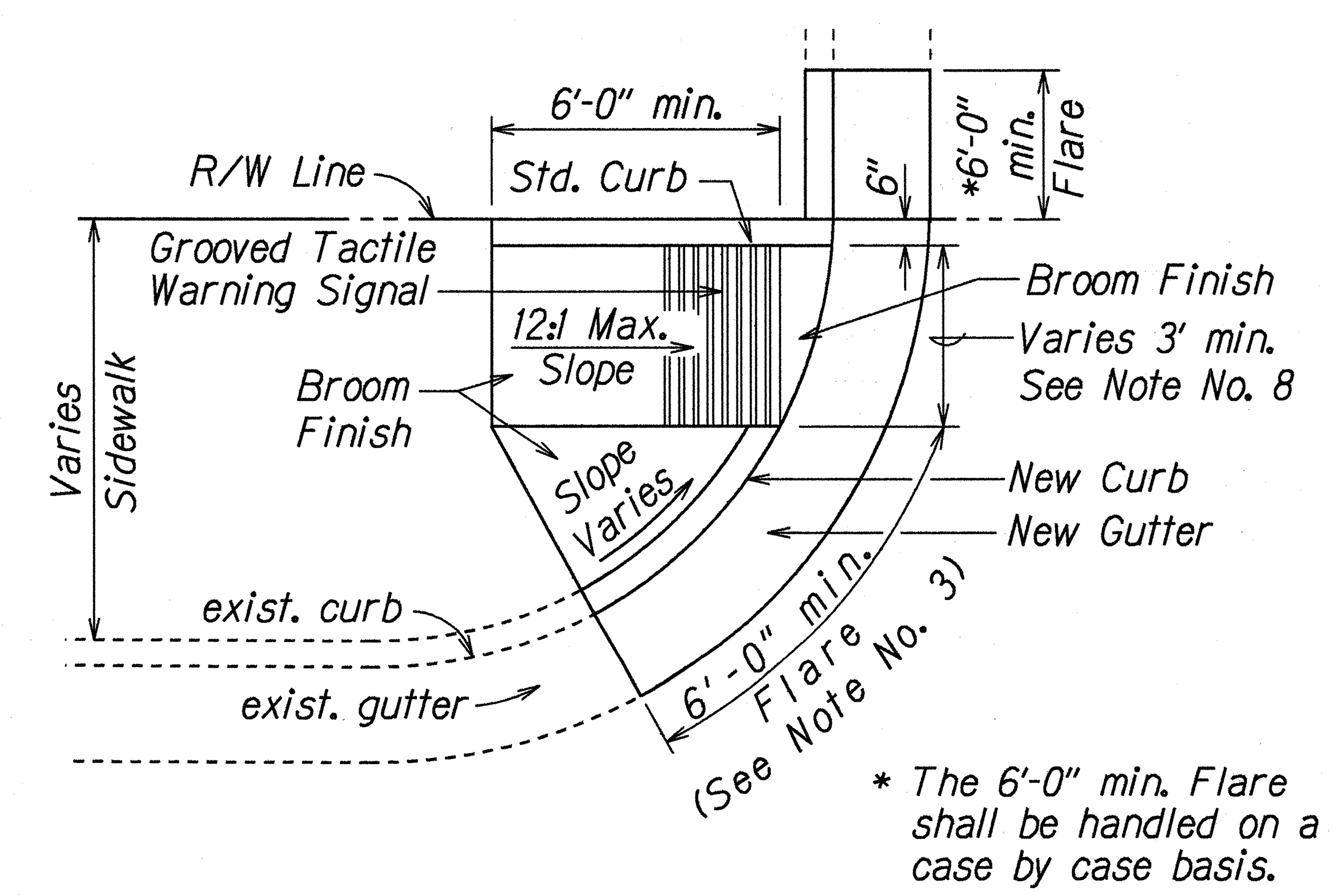
4. All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb) for pedestrian circulation.

5. Narrow Sidewalks (3'-0" min. width excluding curb) will prohibit the installation of any sign posts, utility poles, fire hydrants, traffic signals standards, light poles, etc. in the sidewalk, which will prevent a 3'-0" wide clear zone for pedestrian circulation. Also, Narrow Sidewalks shall require a minimum 6'-0" wide by 10'-0" long passing space at intervals not to exceed 200 feet.

6. If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of way.

7. Single curb ramps serving two street crossing directions is prohibited in new construction.

8. Objects protruding from utility poles and walls adjacent to the sidewalks (i.e. wall mounted fire hydrants, telephones, meters on poles etc.) shall meet the current American with Disabilities Act (ADA) Accessibility Guidelines and will be subject to Engineer's approval.



* The 6'-0" min. Flare shall be handled on a case by case basis.

WHEELCHAIR RAMP - TYPE "D"

DATE	REVISION
6/6/97	Detail and notes for Type "D" wheelchair ramp per Addendum No. 2.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP DETAIL

WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-97M

Scale: As Shown   Date: June 1997

SHEET No. 1 OF 1 SHEETS

ADD. 5S-1

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 6/12/97
NOTE BOOK dd1.mh	DRAWN BY HWY-T, MH	
curbramp.dgn No.	TRACED BY	
	DESIGNED BY HWY-T	
	QUANTITIES BY	
	CHECKED BY	