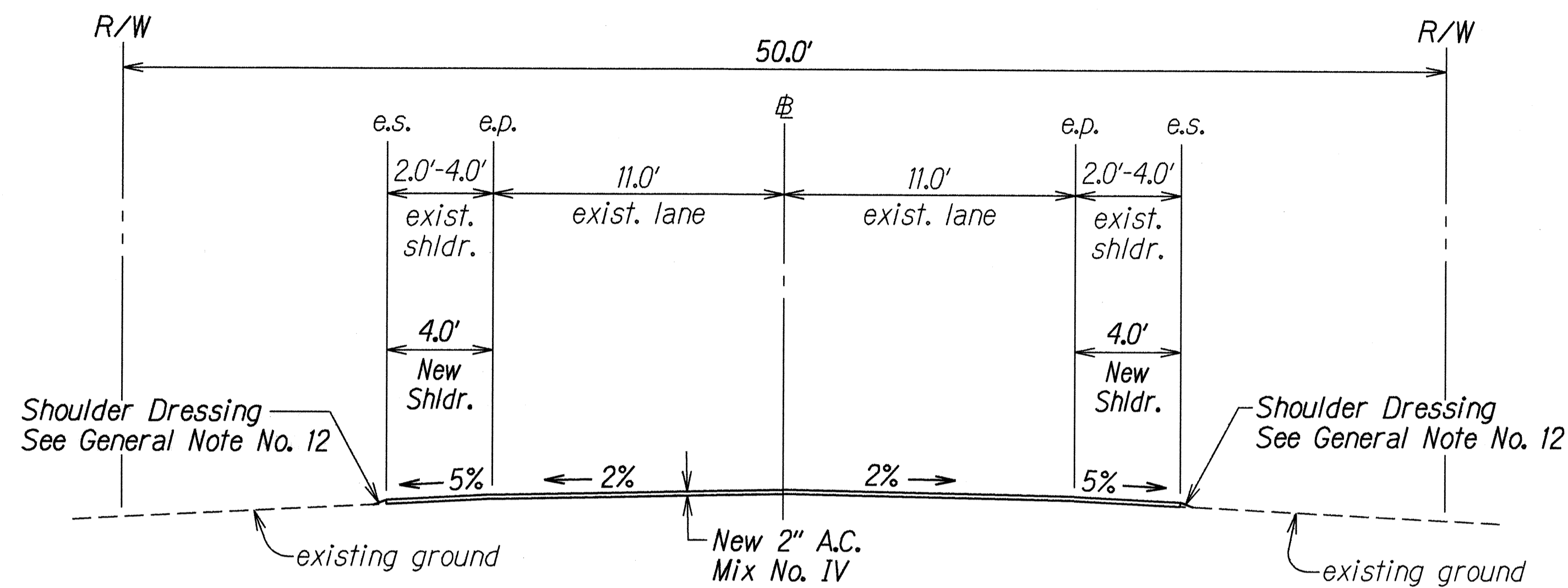
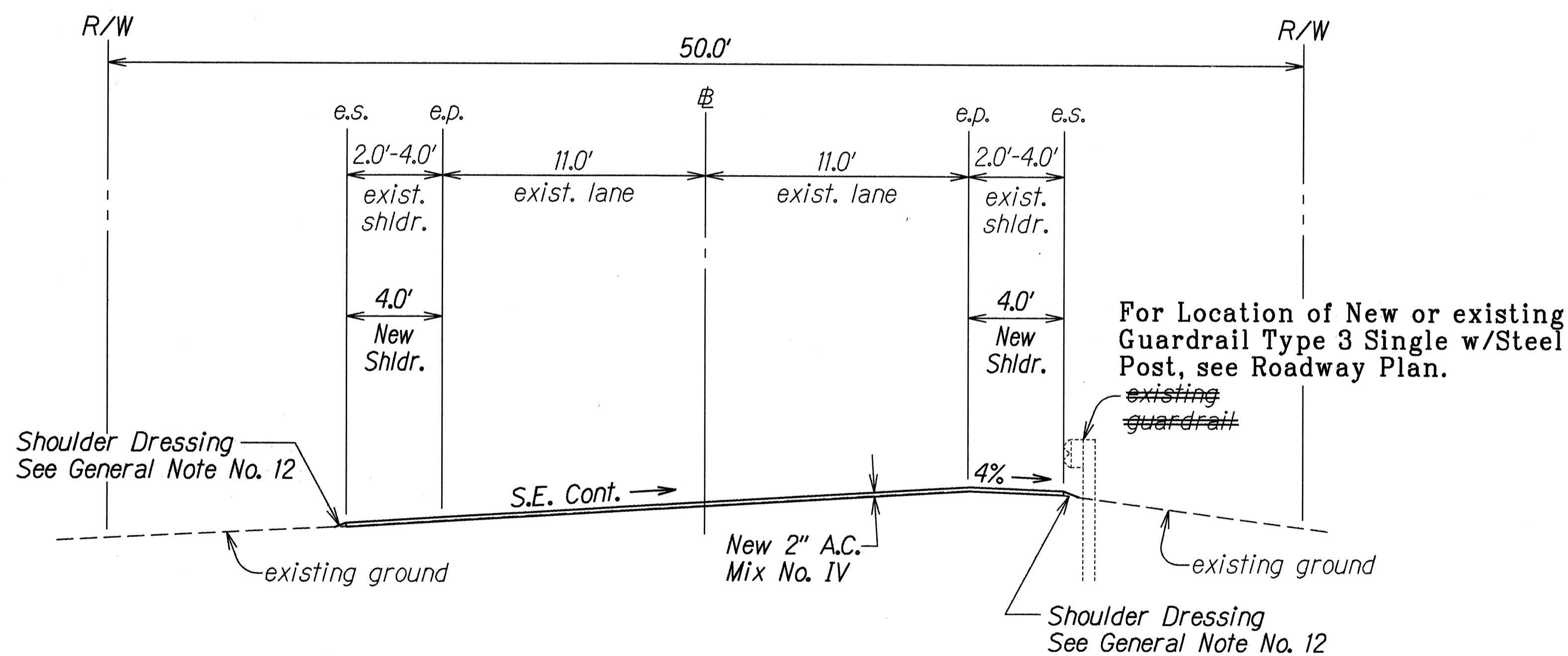


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-96M	1996	5	50



### TYPICAL TANGENT SECTION

Scale:  $\frac{1}{4}'' = 1'-0''$



### TYPICAL SUPERELEVATED SECTION

Scale:  $\frac{1}{4}'' = 1'-0''$

LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

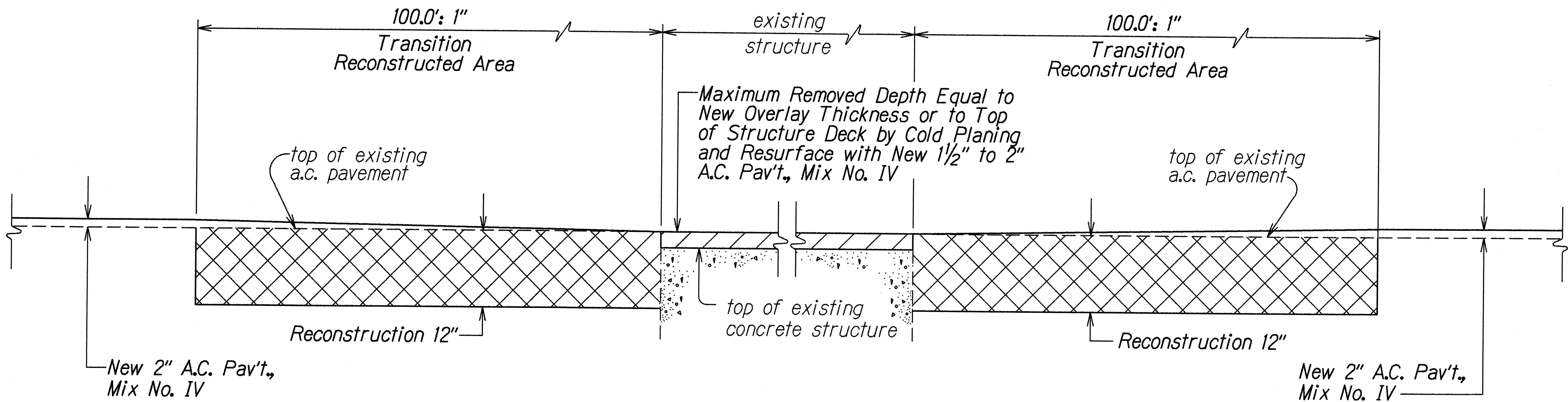
**TYPICAL SECTIONS**

KAMEHAMEHA HIGHWAY RESURFACING  
Crouching Lion to Makao Road  
Project No. 83D-01-96M

Scale: As Shown Date: May, 1996  
SHEET No. 1 OF 3 SHEETS

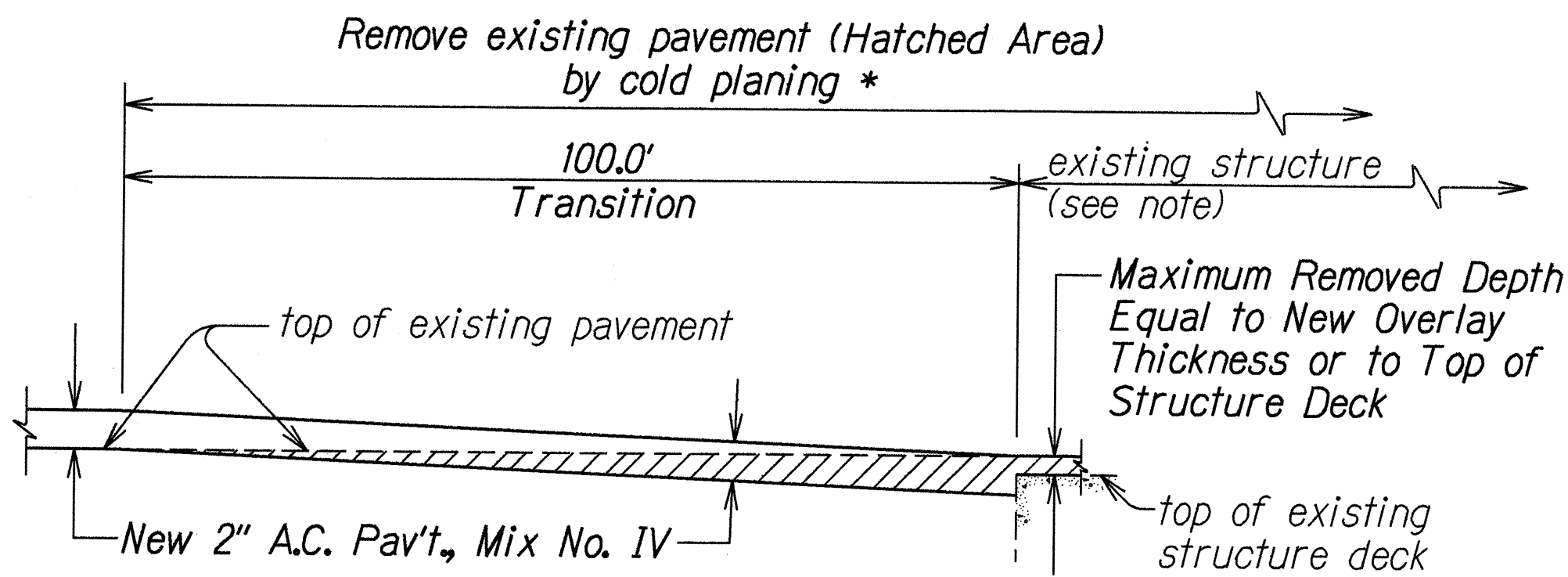
ORIGINAL PLAN	DATE	15-9-96
DESIGNED BY	TRACED BY	
NOTED BY	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
DATE		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-96M	1996	6	50



ROADWAY BRIDGES TO BE COLD PLANED	
NAME OF BRIDGE	APPROX. QUANTITIES (SQ. YD.)
South Kahana Bridge (No. 57)	211±
North Kahana Bridge (No. 56)	213±
South Punaluu Bridge	301±
North Punaluu Bridge	93±
Kaluanui Bridge	333±
Waimanana Bridge	192±

NORTH KAHANA BRIDGE  
COLD PLANING, RECONSTRUCTION AND RESURFACING DETAIL  
 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.

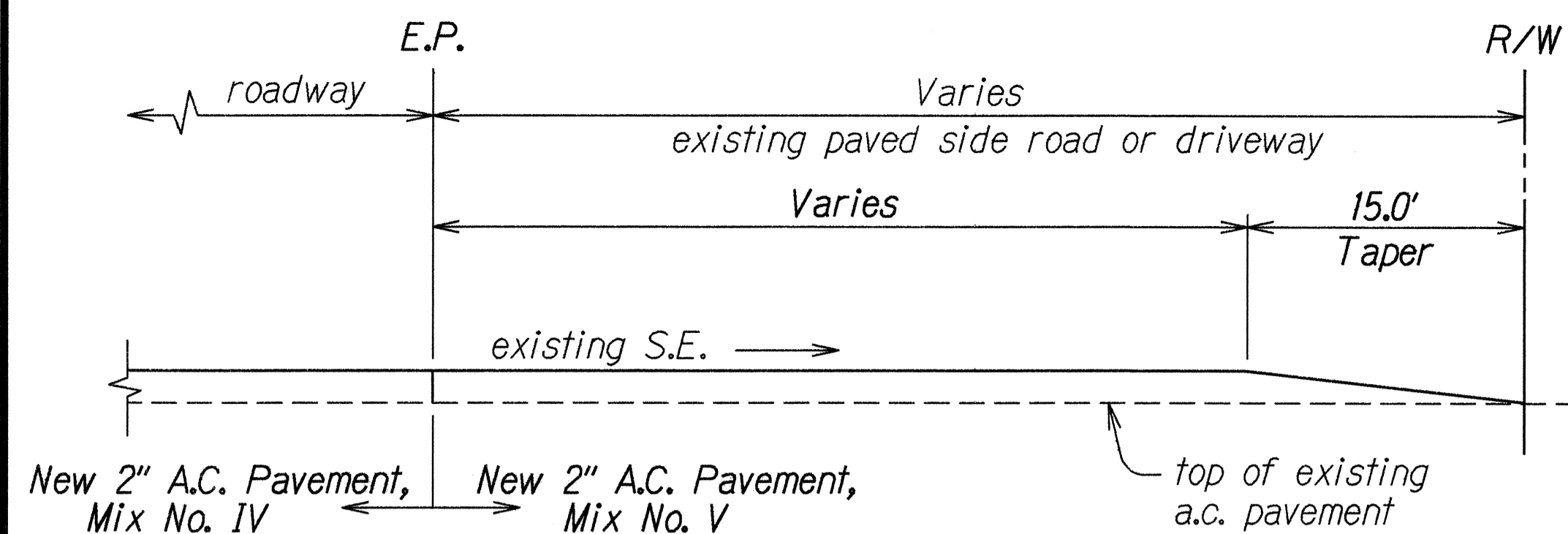
\* Removal of existing pavement shall be considered incidental to A.C. Pavement Mix No. IV and will not be paid for separately.

TYPICAL LONGITUDINAL SECTION AT EXISTING  
STRUCTURE TO BE RESURFACED  
 Not to Scale

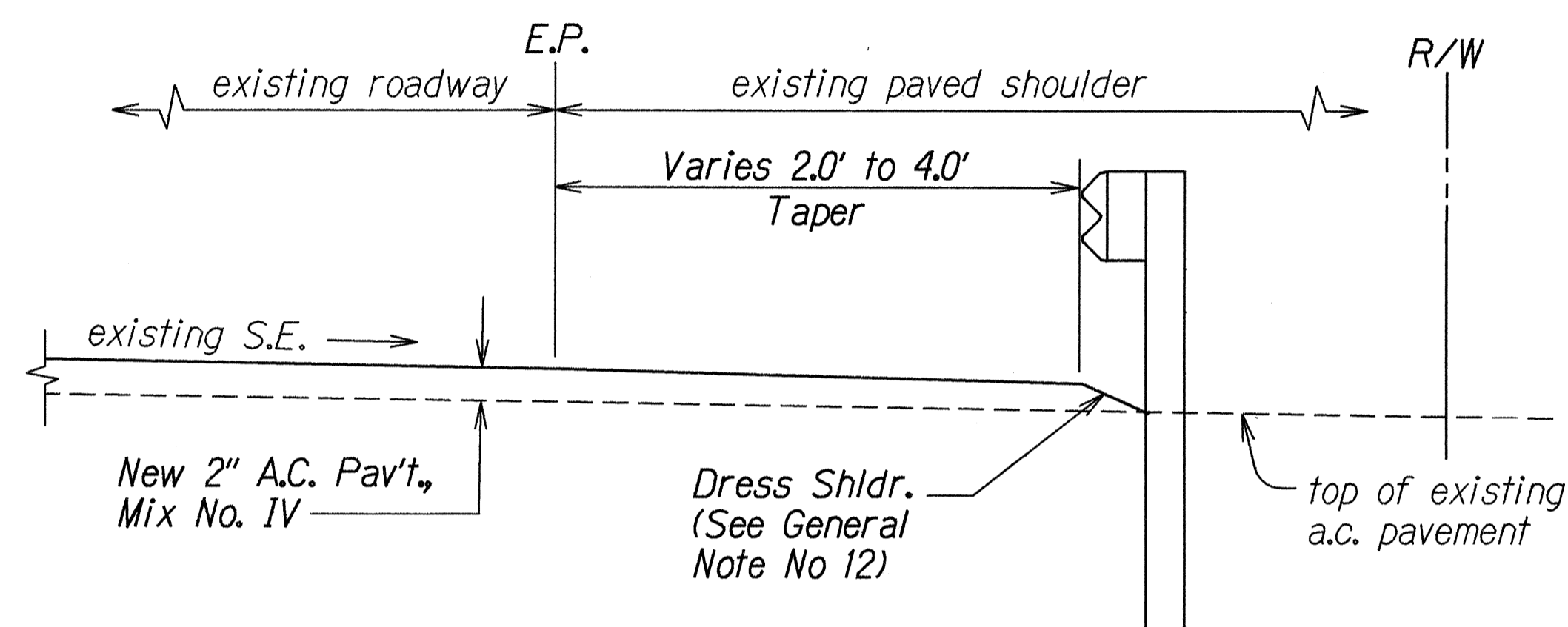
DATE	15-11-96
SURVEY PLANNED BY	
DRAWN BY	L. M. M. M.
DESIGNED BY	K. M.
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	15-11-96
QUANTITIES BY	
CHECKED BY	

6/20/96	Revised North Kahana Bridge Cold Planing, Reconstruction and Resurfacing Detail.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>TYPICAL SECTIONS</b> <u>KAMEHAMEHA HIGHWAY RESURFACING</u> <u>Crouching Lion to Makao Road</u> <u>Project No. 83D-01-96M</u> Scale: As Shown Date: May, 1996 SHEET No. 2 OF 3 SHEETS	

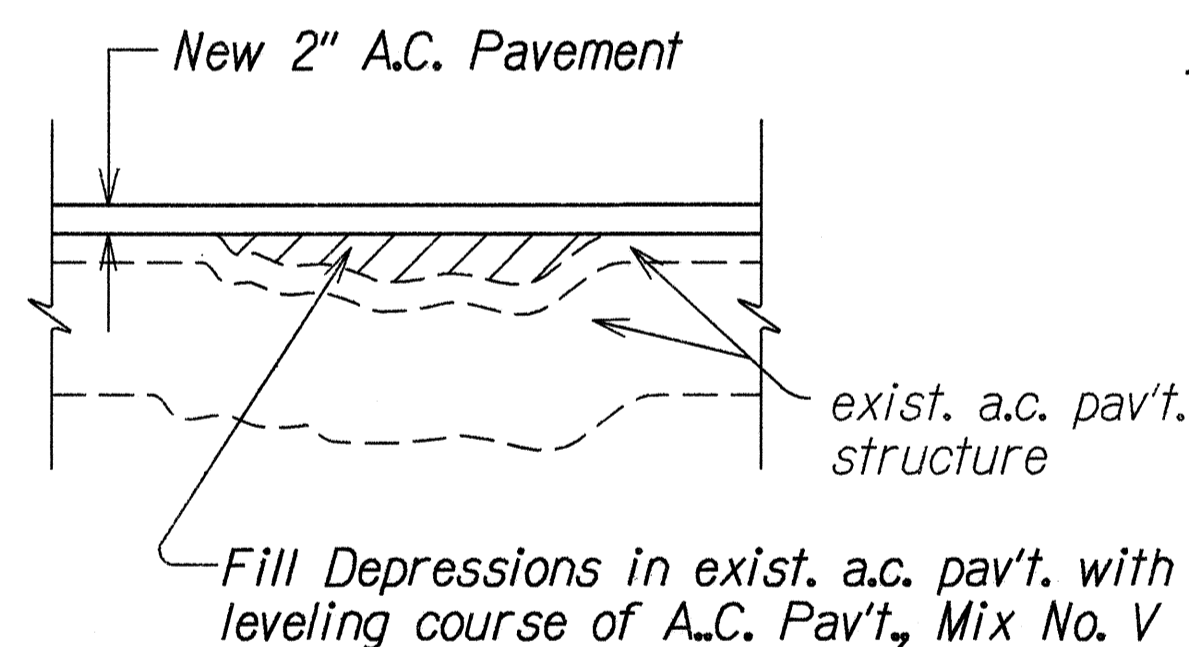
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-96M	1996	7	50



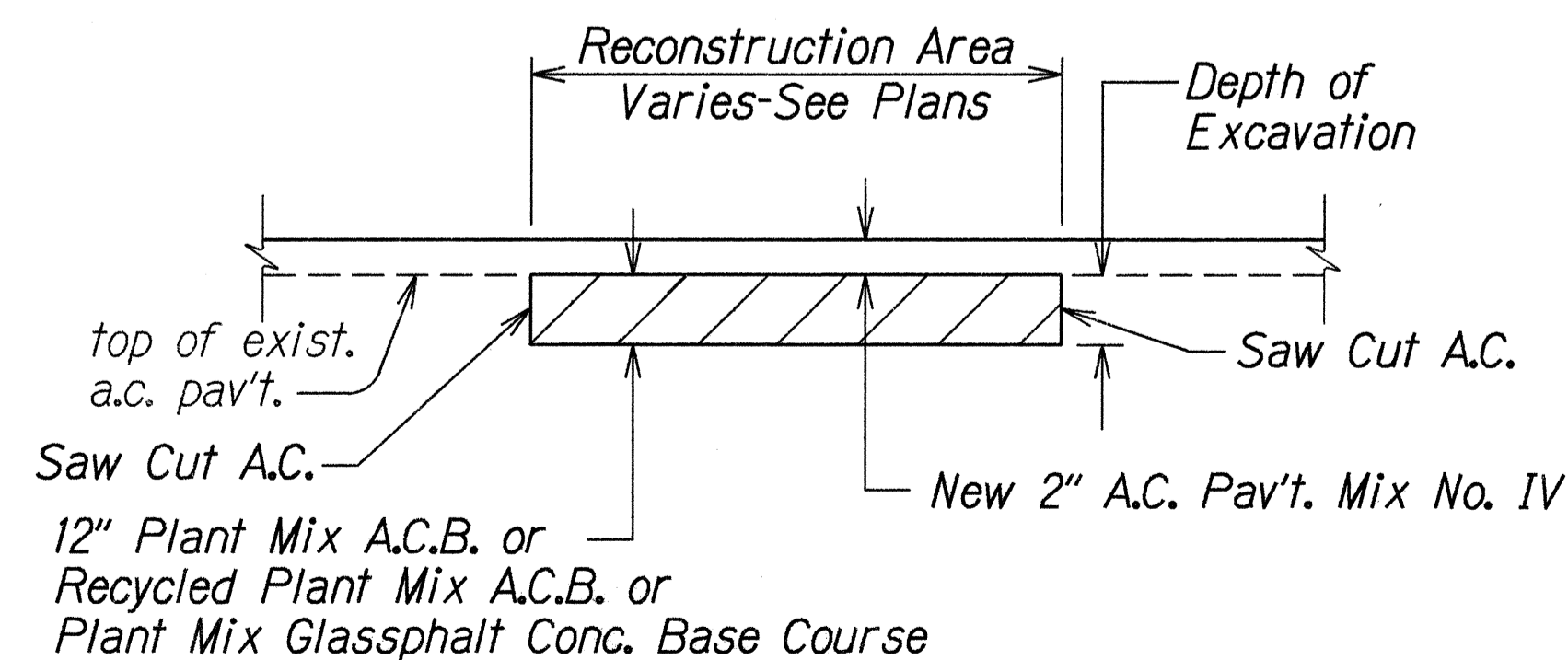
**A.C. RESURFACING AT PAVED SIDEROAD  
OR PAVED DRIVEWAY DETAIL**  
Not to Scale



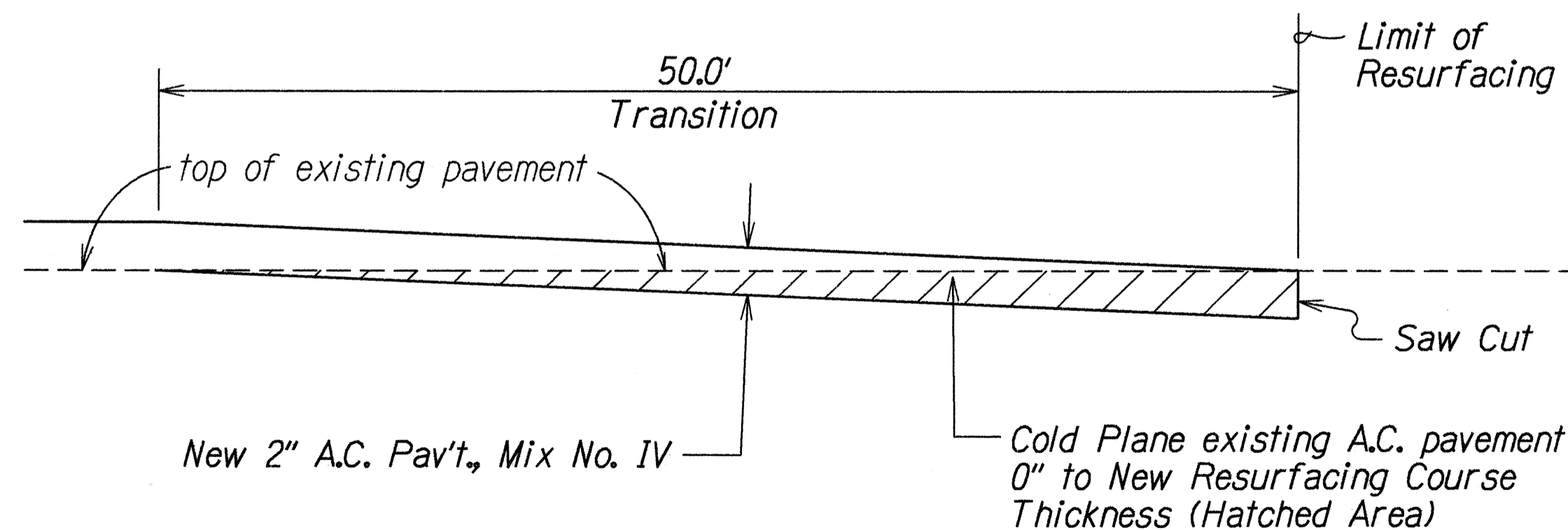
**A.C. RESURFACING WHERE PAVED  
SHOULDER EXIST DETAIL**  
Not to Scale



**LEVELING COURSE DETAIL**  
Not To Scale



**A.C. PAVEMENT 12" RECONSTRUCTION DETAIL**  
Not to Scale



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

UTILITY AND MONUMENT ADJUSTMENT SCHEDULE					
UTILITY/MONUMENT	STATION	OFFSET	UTILITY/MONUMENT	STATION	OFFSET
Centerline Monument	916+02.20	0.0'	Water Manhole	1061+78±	11.9' Rt.
Centerline Monument	916+33.51	0.0'	Water Valve	1068+17±	15.5' Lt.
Centerline Monument	919+07.40	0.0'	Water Valve	1073+18±	24.5' Lt.
Centerline Monument	919+92.60	0.0'	Water Valve	1073+24±	24.5' Lt.
Water Manhole	920+37±	13.5' Lt.	Water Manhole	1077+37±	16.4' Lt.
Centerline Monument	922+54.02	0.0'	Water Meter Box	1094+53±	18.9' Lt.
Water Valve	923+27±	14.1' Lt.	Water Valve	1096+22±	13.8' Lt.
Water Valve	939+61±	13.2' Lt.	Water Manhole	1096+29±	13.8' Lt.
Water Meter Box	956+01±	14.1' Lt.	Water Manhole	1096+53±	13.5' Lt.
Water Valve	962+39±	14.1' Lt.	Water Manhole	1096+69±	13.5' Lt.
Water Valve	963+08±	4.7' Lt	Water Manhole	1104+08±	14.9' Lt.
Water Valve	963+14±	15.8' Lt.	Water Manhole	1107+51±	12.7' Rt.
Water Valve	965+57±	13.9' Lt.	Water Manhole	1108+48±	14.2' Rt.
Water Valve	965+62±	13.9' Lt.	Water Valve	1110+65±	9.0' Lt.
Water Valve	965+66±	6.7' Lt.	Water Manhole	1112+38±	15.5' Lt.
Water Manhole	966+89±	20.5' Lt.	Water Valve	1114+19±	13.5' Lt.
Water Valve	966+93±	19.2' Lt.	Water Manhole	1128+86±	15.5' Lt.
Water Meter Box	1008+77±	15.7' Rt.	Water Manhole	1132+57±	15.0' Lt.
Water Meter Box	1009+86±	15.7' Rt.	Water Manhole	1135+12±	15.4' Rt.
Water Valve	1012+82±	10.5' Lt.	Water Valve	1135+17±	16.4' Rt.
Water Manhole	1018+88±	15.5' Lt.	Water Manhole	1135+91±	15.5' Rt.
Water Valve	1019+32±	10.5' Lt.	Water Valve	1140+55±	17.5' Lt.
Water Valve	1026+54±	10.5' Lt.	Water Valve	1142+75±	12.5' Lt.
Water Meter Box	1038+00±	15.8' Rt.	Water Manhole	1145+46±	15.0' Rt.
State Survey Monument	1039+22±	13.5' Rt.	Water Manhole	1161+35±	14.1' Rt.
Water Valve	1042+85±	14.0' Lt.	Water Manhole	1173+80±	21.0' Lt.
Water Valve	1043+56±	14.3' Lt.	Water Valve	1174+02±	14.5' Lt.
Water Manhole	1043+61±	14.3' Lt.	Water Valve	1174+08±	14.5' Lt.
Water Manhole	1044+42±	15.4' Lt.	Water Manhole	1178+17±	14.0' Lt.
Water Manhole	1045+49±	17.5' Lt.	Water Valve	1185+38±	23.5' Lt.
Water Manhole	1052+07±	17.0' Lt.	Water Valve	1185+46±	21.9' Lt.
Water Manhole	1054+75±	12.5' Lt.	Water Meter Box	1185+46±	17.8' Lt.
Water Manhole	1058+84±	16.0' Lt.	Water Meter Box	1186+25±	22.8' Lt.

DESIGNED BY	DATE
TRACED BY	15-8-96
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTED BY	
PLANNED BY	
ORIGINAL PLAN	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TYPICAL DETAILS AND  
UTILITY & MONUMENT  
ADJUSTMENT SCHEDULE**  
KAMEHAMEHA HIGHWAY RESURFACING  
Crouching Lion to Makao Road  
Project No. 83D-01-96M  
Scale: As Shown Date: May, 1996  
SHEET No. 3 OF 3 SHEETS