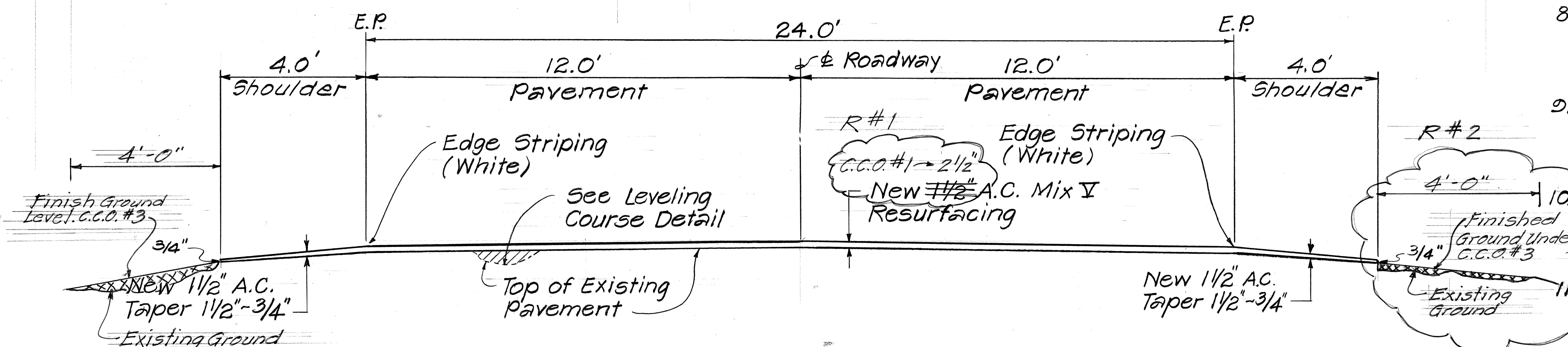


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	30AC-01-87M 30A-01-87	1987	3	18

GENERAL NOTES

- The scope of work involves improvements at two Sections of Honoapiilani Highway in the vicinity of Olowalu and Kaanapali as follows:
 - Olowalu Section-Improvements consists of ~~reconstructing weakened pavement areas~~, resurfacing with asphalt concrete pavement, adjusting survey monuments and installing pavement markers and striping.
 - Kaanapali Section-Improvements consist of widening the existing pavement, constructing paved shoulders, resurfacing with asphalt concrete pavement, adjusting utility manholes and survey monuments, installing guardrail, traffic signs and pavement markers and striping.
- The removal of the existing shoulder shall be considered Roadway Excavation. Saw cut the existing shoulder prior to removal.
- The removal and disposal of the existing wooden guardrail with posts shall be considered incidental to New Guardrail.

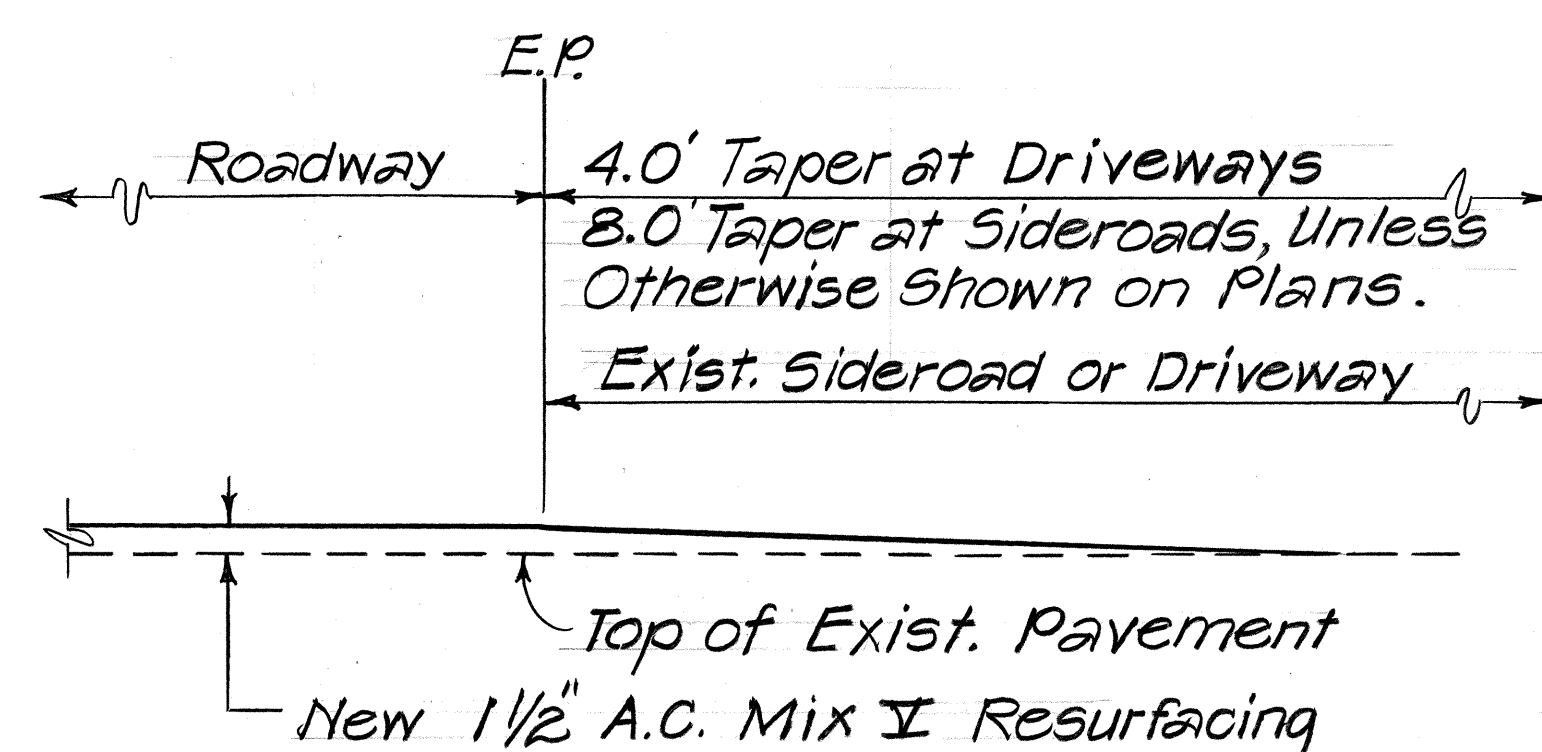
- Before resurfacing, the Contractor shall remove and dispose of existing Raised Pavement Markers. This work shall be considered incidental to Item No. 401.0500, A.C. Pavement, Mix No. V.
- Prior to placing leveling course or resurfacing, the existing surface shall be cleaned as described in Section 310 of the Standard Specifications and as amended. Payment shall be considered incidental to Item No. 401.0500, A.C. Pavement Mix No. V.
- All holes, cracks and large depression shall be filled, leveled and compacted with A.C. Pavement, Mix No. V prior to resurfacing as directed by the Engineer. Payment shall be made under Item No. 401.0500, A.C. Pavement, Mix No. V.
- In general the total A.C. Overlay thickness shall be 1 1/2 inches unless otherwise directed by the Engineer. (Olowalu to be 2 1/2")
- Smooth riding connections shall be constructed at the beginning and end of the project, and at all connecting approaches as directed by the Engineer. Payment for this work shall be made under Item No. 401.0500, A.C. Pavement, Mix No. V.
- The Contractor's attention is directed to Sub-Sections 104.04, 107.13, 107.21, Section 645 of the Standard Specifications and the Special Provisions.



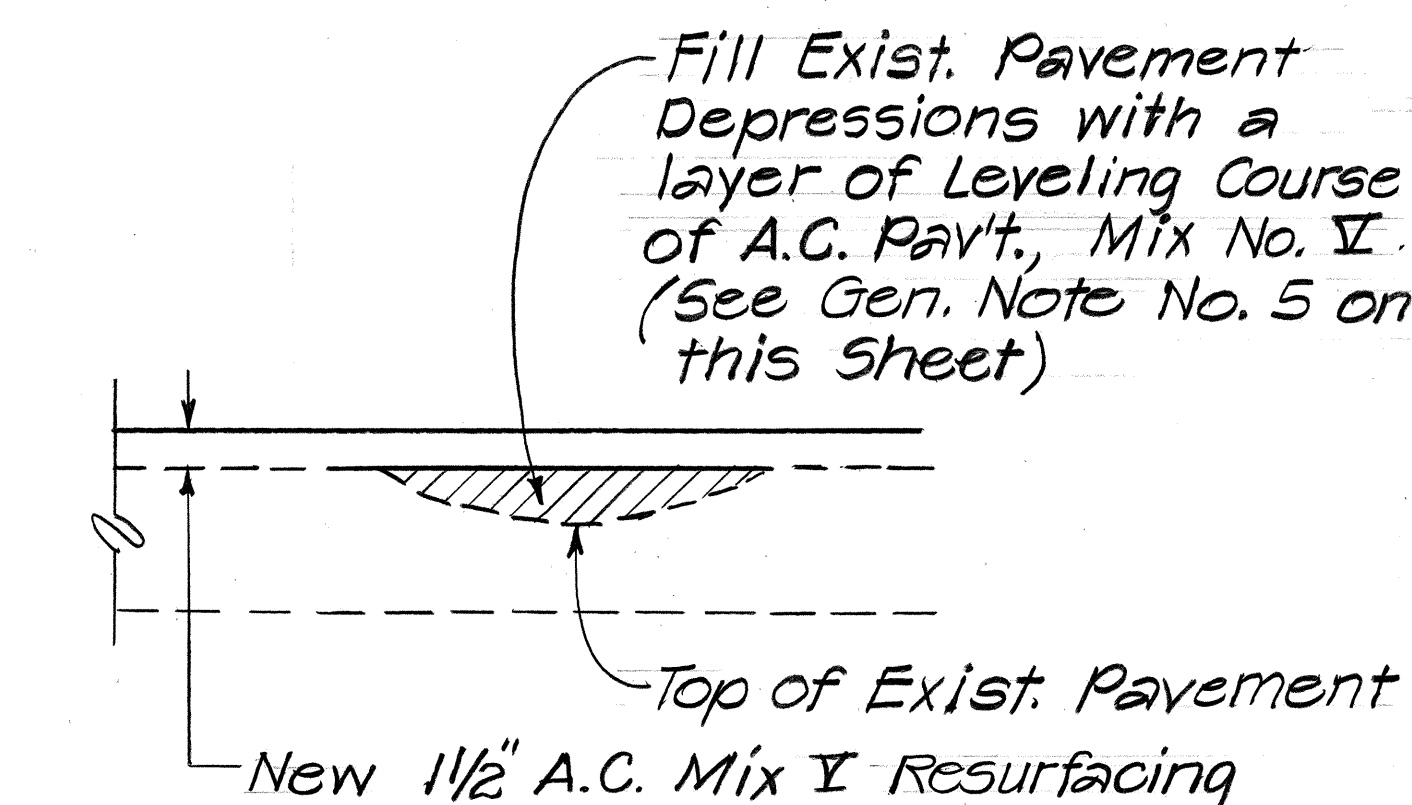
TYPICAL SECTION ~ VICINITY OF OLOWALU
STA. 33+00 TO STA. 77+00
Scale: 1/2"=1'-0"

- The Contractor shall construct tapers at sideroads as shown on the plans, unless otherwise directed by the Engineer. Payment for this work shall be made under Item No. 401.0500, A.C. Pavement, Mix No. V.
- The existence and location of underground Utilities, manholes, monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. The encountering of other obstacles during the course of the work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.

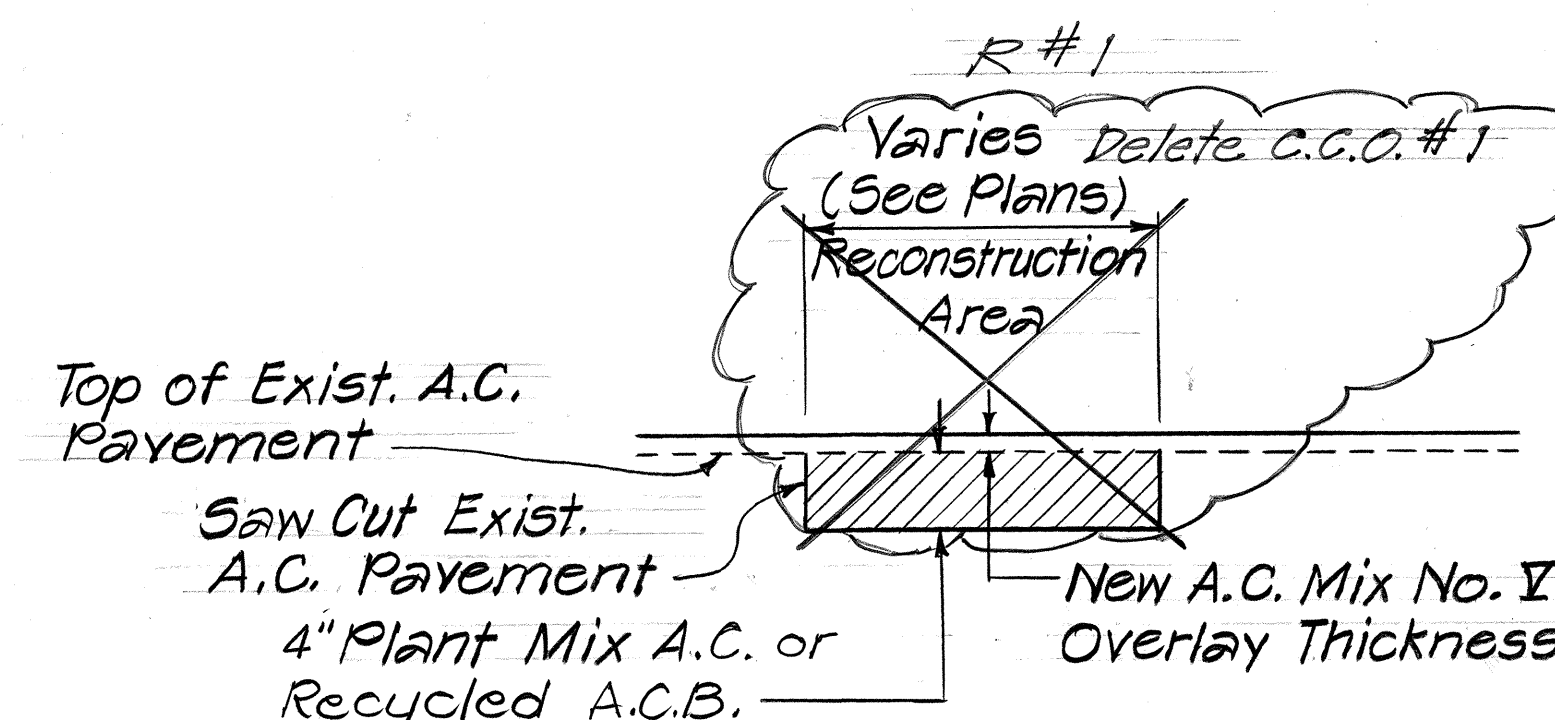
- The location and size of the reconstruction areas shown on the plan are approximate only. The weakened areas will have gotten worse since these plans were drawn. The Contractor is directed to visit the project to observe the extent of deterioration prior to bidding the exact limits and quantities shall be determined in the field by the Engineer.
- Saw-Cut of existing pavement shall not be measured or paid for separately but shall be considered incidental to Asphalt Concrete Pavement, Mix No. V.



TYPICAL DETAIL AT SIDEROAD OR DRIVEWAY CONNECTIONS
Not to Scale



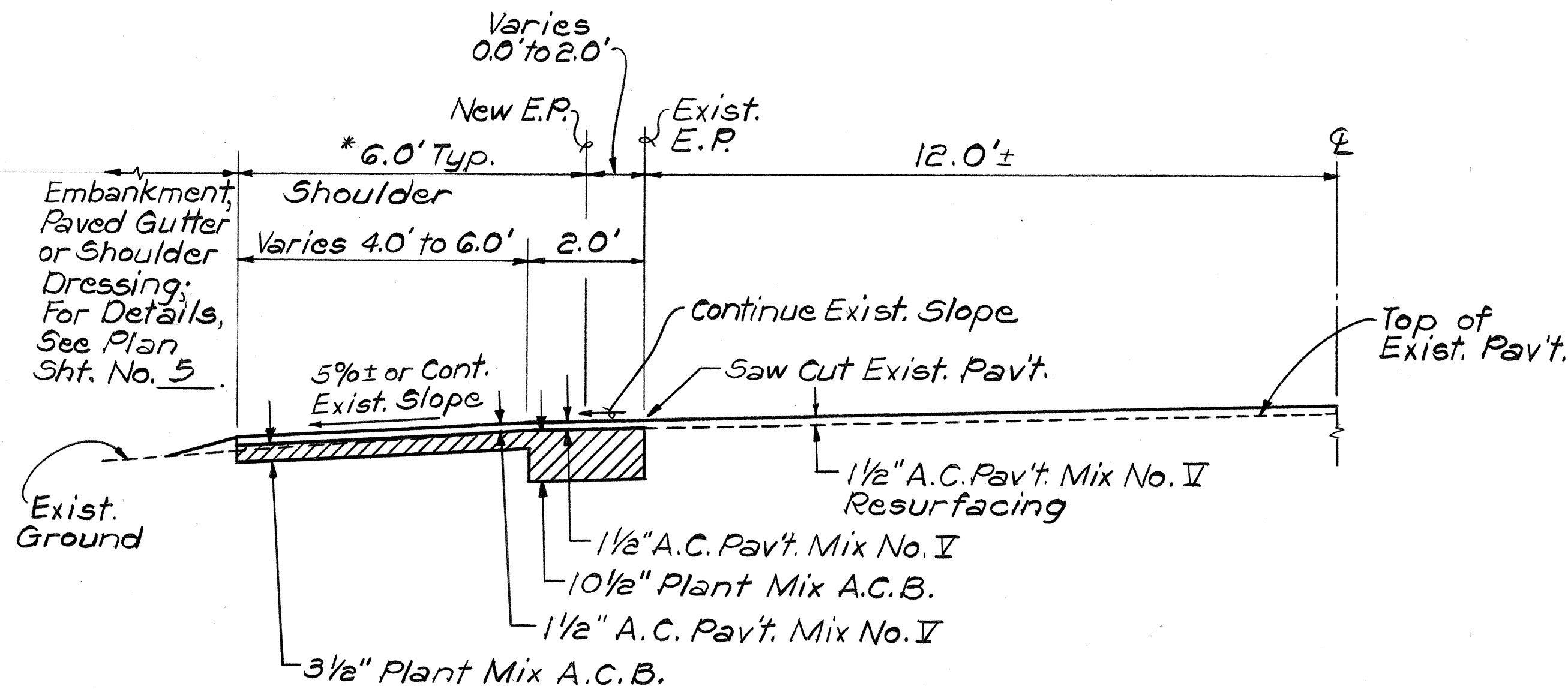
LEVELING COURSE DETAIL
Not to Scale



TYPICAL RECONSTRUCTION AREA
Not to Scale

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
GENERAL NOTES, TYPICAL SECTIONS AND DETAILS
HONOAPIILANI HWY. RESURFACING AND GUARDRAIL & SHOULDER IMPR.
PROJ. NOS. 30AC-01-87M & 30A-01-87
SCALE: AS SHOWN DATE: MAY 1987
SHEET NO. 1 OF 4 SHEETS

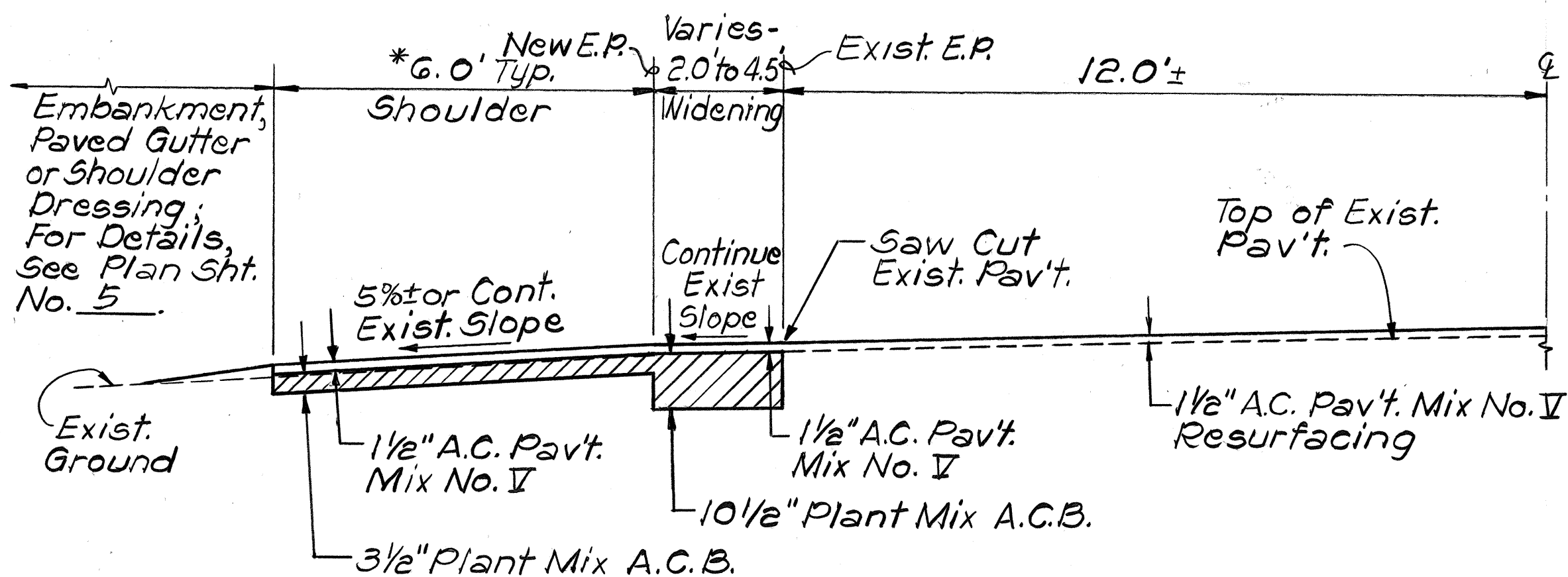
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	30AC-01-87M 30A-01-87	1987	4	18



**TYPICAL HALF SECTION - RESURFACING, PAVEMENT
WIDENING AND SHOULDER CONSTRUCTION**

± STA. 111+00 to ± STA. 112+20 ± Lt. Rt., ± Sta. 119+70 ± to ± STA. 120+90 ± Lt. Rt.
± STA. 168±50 ± to ± STA. 169+65 ± Lt. Rt., ± STA. 178+40 ± to ± STA. 178+90 ± Lt.,
± STA. 177+85 ± to ± STA. 178+90 ± Rt.

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

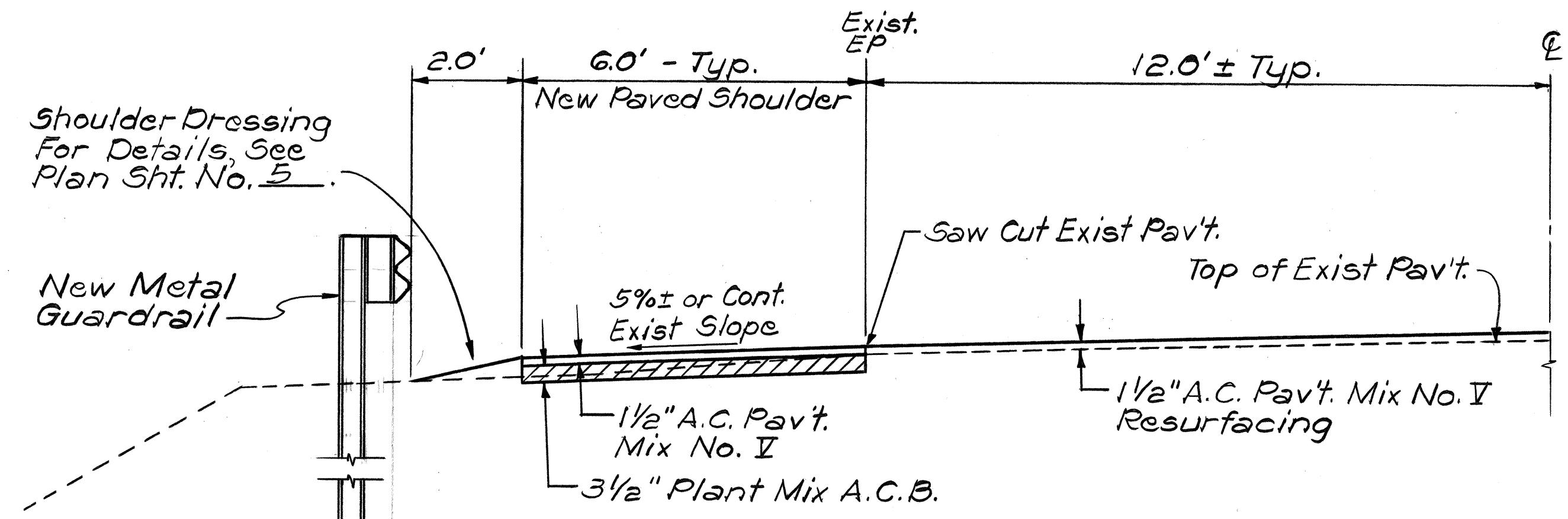


**TYPICAL HALF SECTION - RESURFACING, PAVEMENT
WIDENING AND SHOULDER CONSTRUCTION**

± STA. 112+20 ± to ± STA. 119+70 ± Lt. Rt., ± STA. 169+65 ± to ± STA. 178+40 ± Lt.,
± STA. 169+65 ± to ± STA. 177+85 ± Rt.

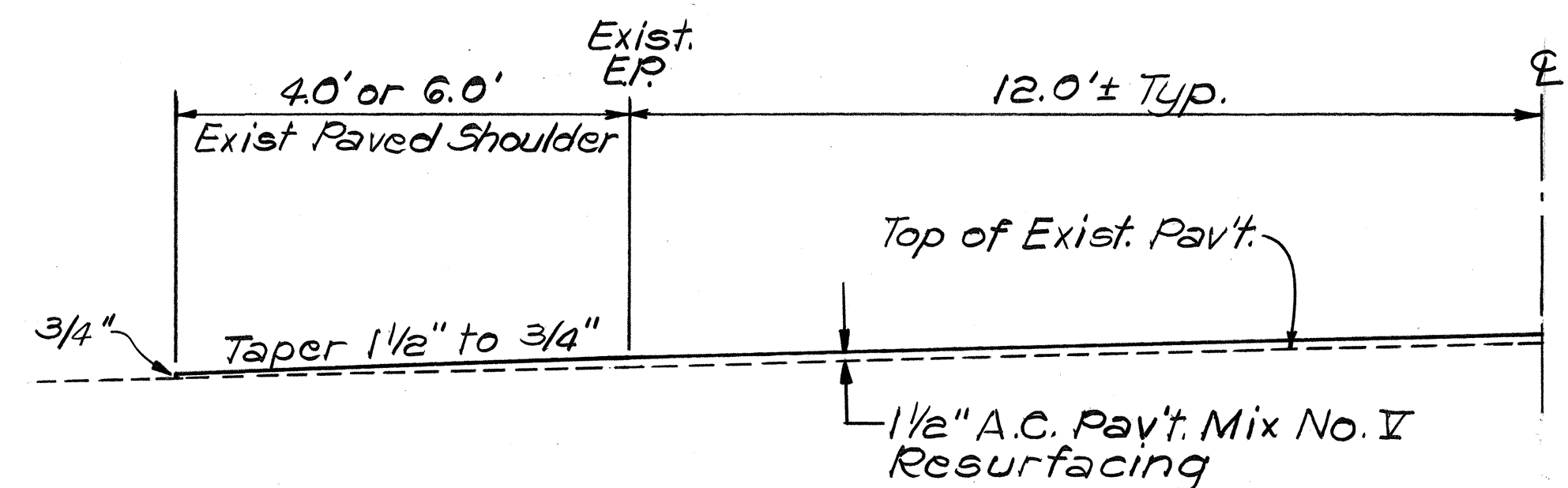
Scale: 1/2" = 1'-0"

* Width of New Paved Shoulder shall vary from ± Sta. 111+00 to ± Sta. 120+90 ±. For Details, see Plan Sheet No. 5.



**TYPICAL HALF SECTION
RESURFACING & SHOULDER CONSTRUCTION**

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



**TYPICAL HALF SECTION
RESURFACING AT EXISTING PAVED SHOULDER**

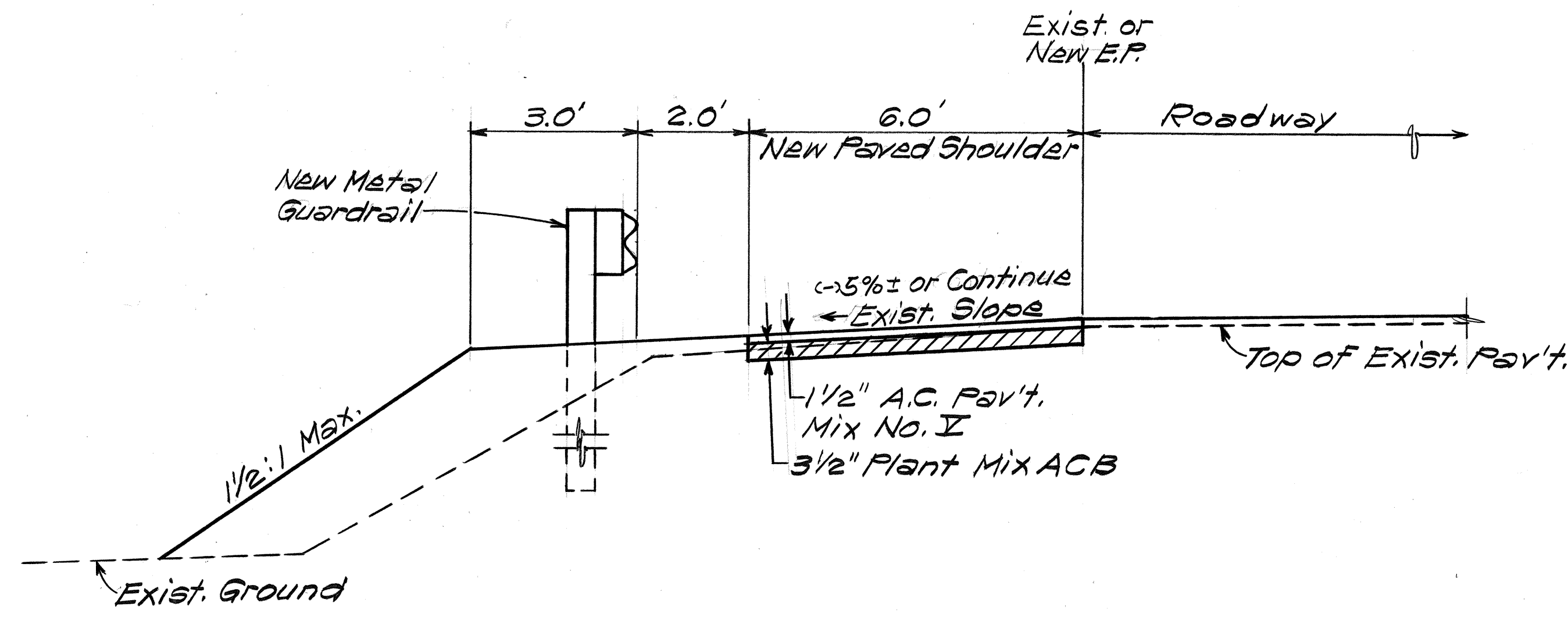
Scale: 1/2" = 1'-0"

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

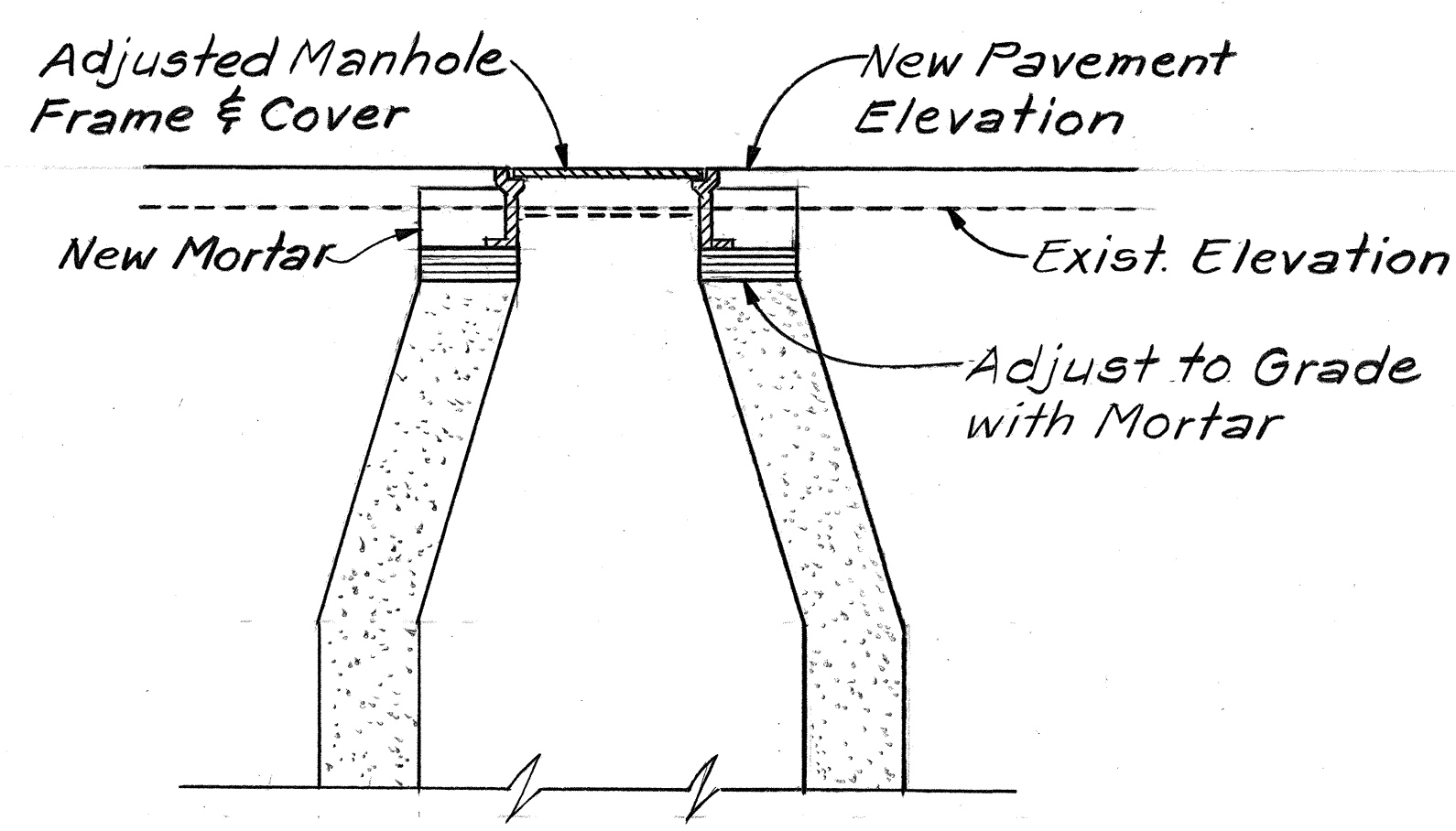
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TYPICAL HALF SECTION
KAANAPALI SECTION**
HONOAPIILANI HWY. RESURFACING
AND GUARDRAIL & SHOULDER IMP
PROJ. NOS. 30AC-01-87M & 30A-01-87
Scale: As Noted Date: May, 1987
SHEET NO. 2 OF 4 SHEETS

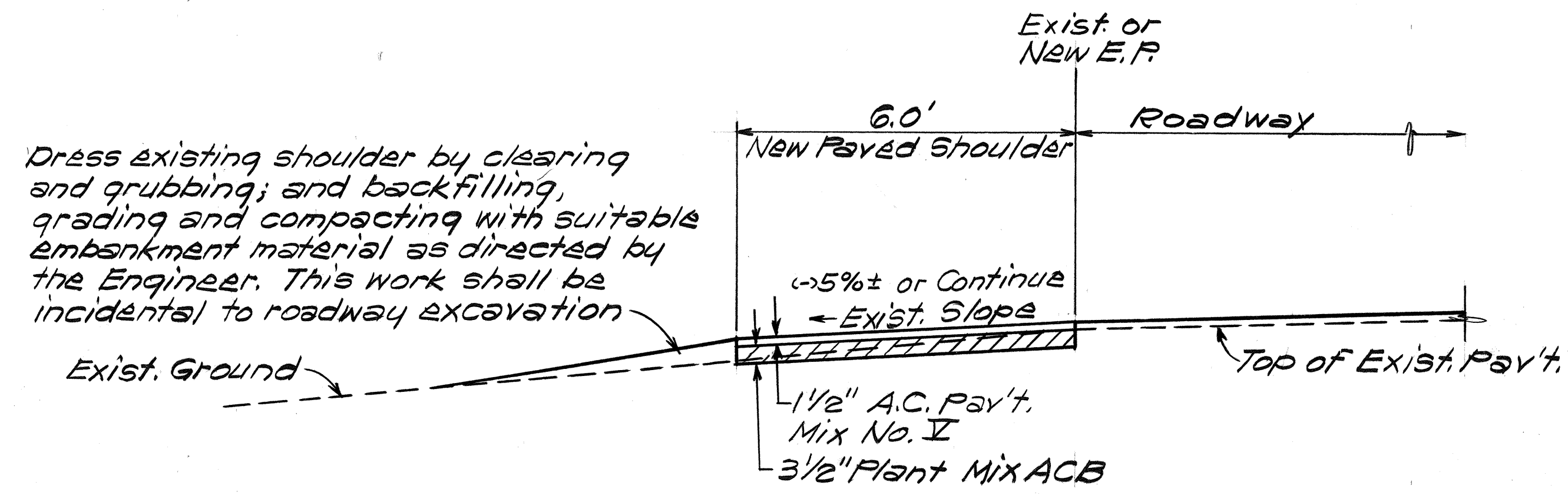
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	30AC-01-87M 30A-01-87	1987	5	18



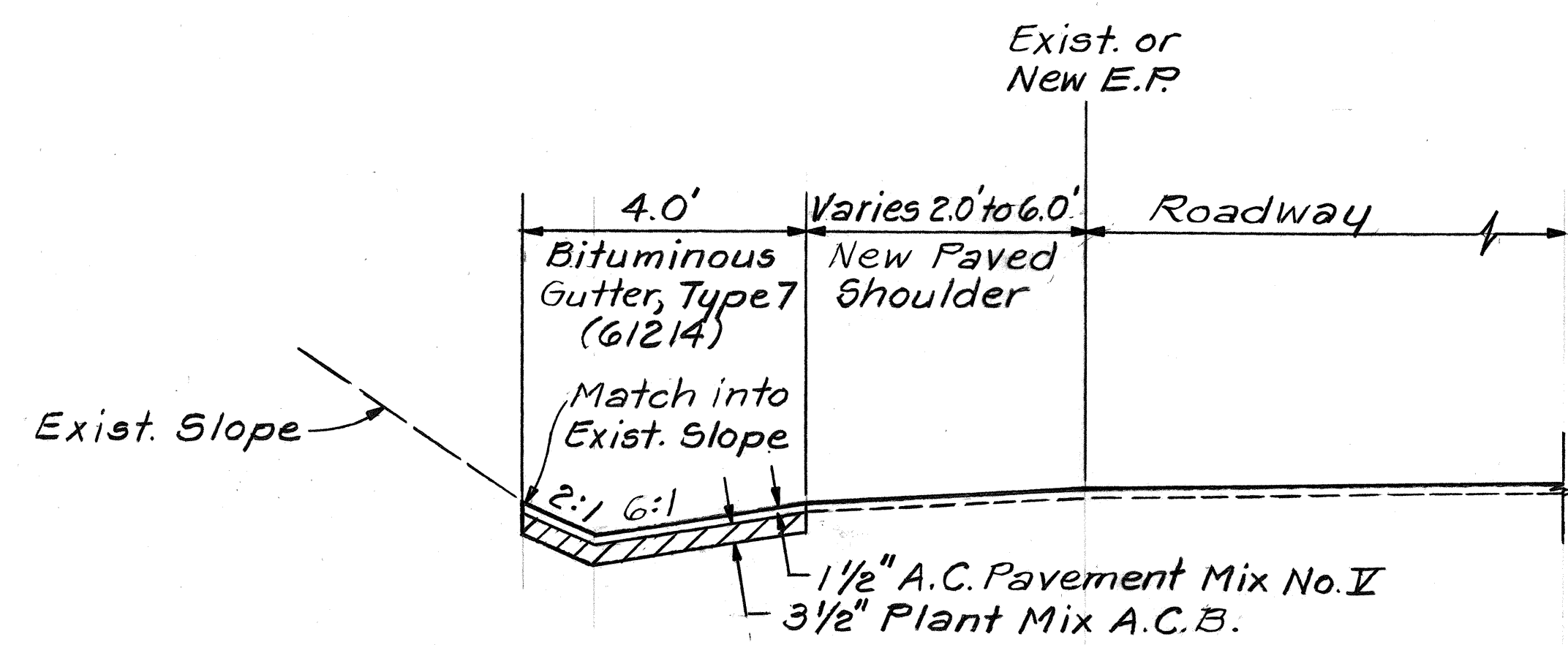
TYPICAL DETAIL ~ EMBANKMENT CONSTRUCTION
Scale: 1/2" = 1'-0"



MANHOLE FRAME & COVER ADJUSTMENT DETAIL
Not to Scale



TYPICAL DETAIL ~ DRESSING EXISTING SHOULDER
Scale: 1/2" = 1'-0"



TYPICAL DETAIL ~ BITUMINOUS GUTTER
Scale: 1/2" = 1'-0"

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
KAANAPALI SECTION

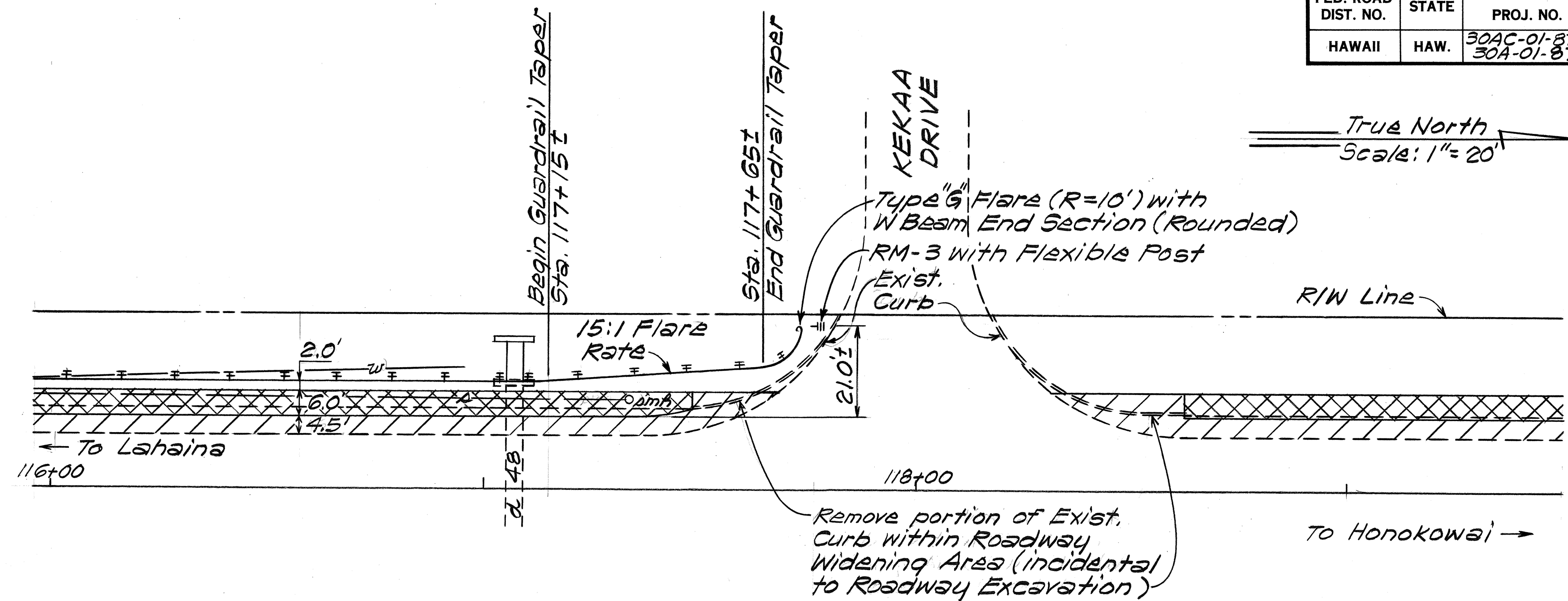
HONOAPIILANI HWY. RESURFACING
AND GUARDRAIL & SHOULDER IMPR.
PROJ. NOS. 30AC-01-87M & 30A-01-87

Scale: As Shown Date: May, 1987

SHEET No. 3 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	30AC-01-87M 30A-01-87	1987	6	18

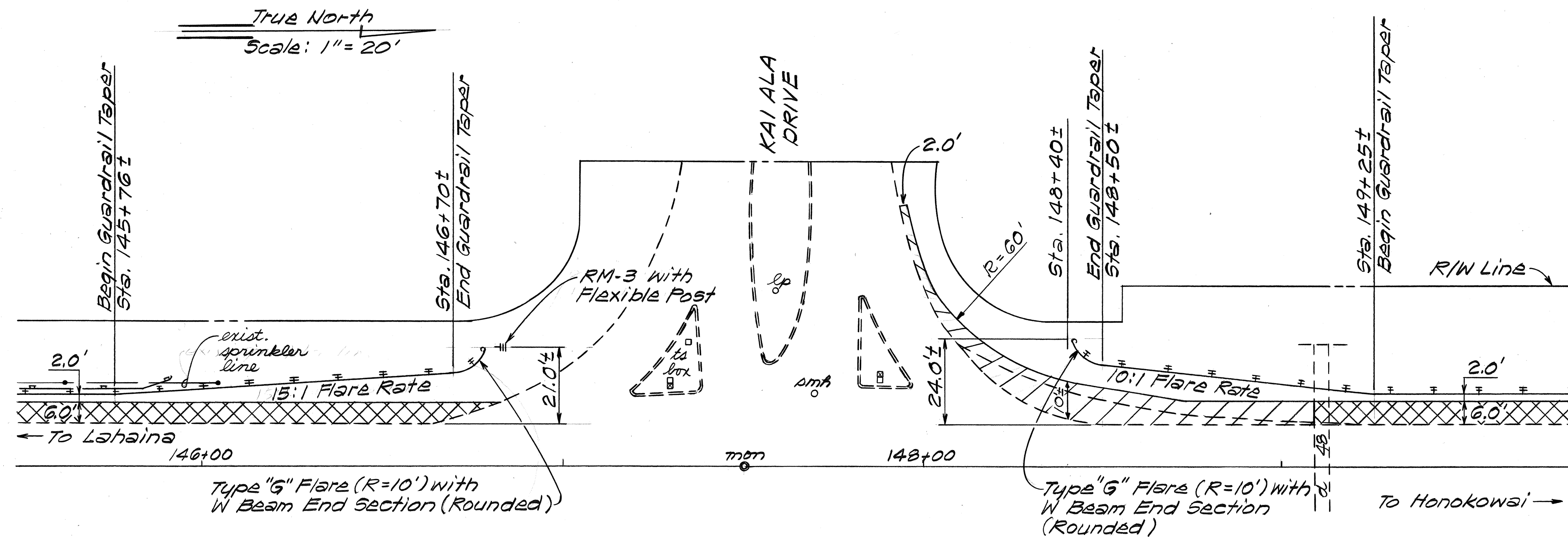
UTILITIES ADJUSTMENT SCHEDULE ~ KAANAPALI SECTION					
NO.	LOCATION		NO.	LOCATION	
	± STATION	OFFSET		± STATION	OFFSET
CAST IRON FRAME & COVER FOR WATER MANHOLE					
1	117 + 30	16' Rt.	3	162 + 77	21' Rt.
2	140 + 57	14' Rt.			
WATER VALVE BOX FRAME & COVER					
1	146 + 55	18' Rt.	3	172 + 49	18' Rt.
2	172 + 44	17' Rt.			
CAST IRON FRAME & COVER FOR SEWER MANHOLE					
1	114 + 02	22' Lt.	4	144 + 88	8' Lt.
2	117 + 34	21' Lt.	5	172 + 25	23' Lt.
3	120 + 74	18' Lt.			



DETAIL ROADWAY PLAN AT KEKAA DRIVE

LEGEND

- Roadway Widening Areas
- Shoulder Construction Areas



DETAIL ROADWAY PLAN AT KAI ALA DRIVE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DETAIL ROADWAY PLANS
AND UTILITY SCHEDULE**

HONOPILANI HWY. RESURFACING
AND GUARDRAIL & SHOULDER IMPR.
PROJ. NOS. 30AC-01-87M & 30A-01-87

Scale: As Shown Date: May, 1987

SHEET NO. 4 OF 4 SHEETS

DATE	
SURVEY PLOTTED BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	