STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	PROJ. NO.		SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	78A-01-91M	1992	2	70

STANDARD PLAN NO.	TITLE	DATE
B-01	Notes and Miscellaneous Details	07/01/86
B-02 ·		
B-03 ·	Typical Structure Excavation and Backfill Pay Limits	07/01/86
B-04	·	
B-05		
B-06 ·	Concrete Box Girder	07/01/86
B-07 ·	Concrete Box Girder	07/01/86
B-08 ·	Concrete Box Girder	07/01/86
B-09 ·		
B-10 ·		
B-11 ·		
B-12 ·	Prestressed Concrete Piles	07/01/86
B-13	Prestressed Concrete Piles	07/01/86
mental version tale i i interno de se d		
D-01	Chain Link Fence With Toprail	r03/06/8
D-02	Chain Link Fence Without Toprail	07/01/86
D-03 ·	Wire Fence With Metal Posts	07/01/86
D-04	Typical Details of Curbs and/or Gutters	07/01/86
D-05	Typical Details of Reinforced Concrete Drop Driveway	07/01/86
D-06	Centerline and Reference Survey Monument	07/01/80
D-07	Street Survey Monument	07/01/86
D-08	Landscaping Shrub and Tree Planting	07/01/86
D-09	Field Office	07/01/80
D-10	Field Office	07/01/86
D-11 ·	Project Site Laboratory	07/01/80
D-12	Project Site Laboratory	07/01/80
D-13	Field Office & Project Site Laboratory	07/01/86
H-01	Type A, B, C and D Catch Basin	07/01/86
H-02	Type A1. B1. C1 and D1 Catch Basin	07/01/8
H-03	Type A2, B2, C2 and D2 Catch Basin	07/01/80
H-04	Typical Reinforcing Details for Catch Basins	07/01/8
H-05	Type A. B and C Storm Drain Manhole	07/01/8
H-06	Type D and E Storm Drain Manhole	07/01/8
H-07	Type F Storm Drain Manhole	07/01/8
H-08	Catch Basin and Manhole Casting	07/01/8
H-09	Type A-9 and A-9P Frames and Grates	07/01/8
H-10	Type A-9B Frames and Grates	07/01/8
H-11 ·	Type 61614 and 61214 Grated Drop Inlet	07/01/8
	Type 61616 Grated Drop Inlet	07/01/8
H-12		
H-12 H-13	61214, 61614 & 61616 Steel Frames and Grates	07/01/8
H-12 H-13 H-14	61214, 61614 & 61616 Steel Frames and Grates 61214B Steel Frame and Grates	
H-13 ·		07/01/8
H-13 ·	61214B Steel Frame and Grates	07/01/86 07/01/86
H-13 · H-14 · H-15	61214B Steel Frame and Grates 61614B Steel Frame and Grates	07/01/8 07/01/8 07/01/8
H-13 H-14 H-15 H-16	61214B Steel Frame and Grates 61614B Steel Frame and Grates Concrete and Cement Rubble Masonry Structures	07/01/8 07/01/8 07/01/8 07/01/8
H-13 : H-14 : H-15 : H-16 : H-17 :	61214B Steel Frame and Grates 61614B Steel Frame and Grates Concrete and Cement Rubble Masonry Structures Inlet Structures	07/01/86 07/01/86 07/01/86 07/01/86
H-13 : H-14 : H-15 : H-16 : H-17 : H-18 :	61214B Steel Frame and Grates 61614B Steel Frame and Grates Concrete and Cement Rubble Masonry Structures Inlet Structures Flared End Section for Culverts	07/01/86 07/01/86 07/01/86 07/01/86 07/01/86
H-13 · H-14 · H-15 · H-16 · H-17 · H-18 · H-19 · H-19	61214B Steel Frame and Grates 61614B Steel Frame and Grates Concrete and Cement Rubble Masonry Structures Inlet Structures Flared End Section for Culverts Outlet Structures	07/01/86 07/01/86 07/01/86 07/01/86 07/01/86 07/01/86
H-13 H-14 H-15 H-16 H-17 H-18 H-19 H-20	61214B Steel Frame and Grates 61614B Steel Frame and Grates Concrete and Cement Rubble Masonry Structures Inlet Structures Flared End Section for Culverts Outlet Structures Concrete Spillway Inlet	07/01/86 07/01/86 07/01/86 07/01/86 07/01/86 07/01/86 07/01/86 07/01/86 07/01/86

STANDARD PLAN NO.	TITLE	DATE
TE-01 🌑	Miscellaneous Sign Details	07/01/
TE-02 ®	Galvanized Flanged Channel Sign Post Mounting	07/01/8
TE-03 ①	Galvanized Square Tube Sign Post Mounting	07/01/
TE-04 (Regulatory Signs	r09/01/
TE-05 💮	Warning Signs	07/01/
TE-06 ©	Miscellaneous Signs	r11/03/
TE-07	Reserved	07/01/
TE-08 (Construction Signs	r09/01/
TE-09 🐠	Miscellaneous Intersection Signs	r03/06/
TE-10	Reserved	07/01/
TE-11	Bike Route Sign and Supplementary Plates	07/01/
TE-12	State Route Marker and Auxiliary Markers	07/01/
TE-13 🌑	Interstate Route Marker	07/01/
TE-14 🌑	State Route Marker and Border Detail for Guide Signs	07/01/
TE-15 🌑	Route Marker Assemblies	07/01/
TE-16	Miscellaneous Reflector Markers	07/01/
TE-17 ●	Type II Object Markers	07/01/
TE-18 🚳	Mileposts	07/01/
TE-19	Reserved	07/01/
TE-20 💮	Overhead Sign Supports	07/01/
TE-21 •	Overhead Sign Support, Box Truss Type, Aluminum	07/01/
TE-22	Foundation Details and Schedules	07/01/
TE-23	Supports for Ground Mounted Guide Sign	r11/03/
TE-24 🌑	Breakaway Sign Supports for Ground Mounted Guide Signs	07/01/
TE-25 💮	Laminated Aluminum Sign Panels (Overhead)	07/01/
TE-26 •	Laminated Aluminum Sign Panels (Ground Mounted)	07/01/
TE-27	Solid Aluminum Extruded Sign Panel and Accessory Details	07/01/
TE-28 (b)	Guide Signs Luminaire Mountings	07/01/
TE-29	Reserved	07/01/
TE-30 @	Raised Pavement Markers and Striping	r11/03/
TE-31 (Miscellaneous Pavement Markings	r11/03/
TE-32	Miscellaneous Pavement Markings	r11/03/
TE-33 (1)	Miscellaneous Pavement Markings	r11/03/
TE-34	Reserved	07/01/
TE-35 @	Pavement Alphabets, Numbers & Symbols	07/01/
TE-36 ®	Pavement Alphabets, Numbers & Symbols	07/01/
TE-37	Reserved	07/01/
TE-38	Traffic Signal System, Miscellaneous Details	r11/03/
TE-39	Traffic Signal System, Miscellaneous Details	07/01/
TE-40 ©	Loop Detectors	r11/03/
TE-41 (Pullboxes	07/01/
TE-42	Type III Traffic Signal Standard	07/01/
TE-43	Concrete Pullbox (2' x 3')	07/01/
TE-44	Reserved	07/01/

STANDARD PLAN NO.		DATE
TE-45	Reserved	07/01/86
TE-46	Reserved	07/01/86
TE-47	Reserved	07/01/86
TE-48	Reserved	07/01/86
TE-49	Reserved	07/01/86
TE-50	Metal Guardrail	r03/06/87
TE-51 ·	Metal Guardrail	r09/01/87
TE-52	Metal Guardrail with Rubrail	r11/03/89
TE-53	Metal Guardrail with Rubrail at Obstruction	r09/01/87
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	r11/03/89
TE-55	Metal Guardrail Connection to Concrete Barrier	r11/03/89
TE-56	Concrete Barrier Transition	07/01/86
TE-57	Guardrail Type 3. Thrie Beam	r11/03/89
TE-57A	Guardrail Type 3, Modified Thrie Beam	11/03/89
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59	Trailing End Flare, One & Two Way Roadway	r11/03/89
TE-60	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	r11/03/89
TE-62	Breakaway Cable Terminal (BCT)	r09/01/87
TE-63	Guardrail Type 4 (Rigid Barrier)	r09/01/87
TE-64	Portable Concrete Barrier	r11/03/89
TE-65	Guardrail Type 4. Miscellaneous	r09/01/87
TE-66 ●	Barricades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	r11/03/89
TE-69	Wheelchair Ramps	r11/03/89

NOTE:

STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " • " NEXT TO THE STANDARD PLAN NO. (D-07 ●)

09/01/87	REVISED STANDARD PLANS TE-04, TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69. REVISED STANDARD PLANS D-01, TE-09, TE-69, TE-6
DATE	TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

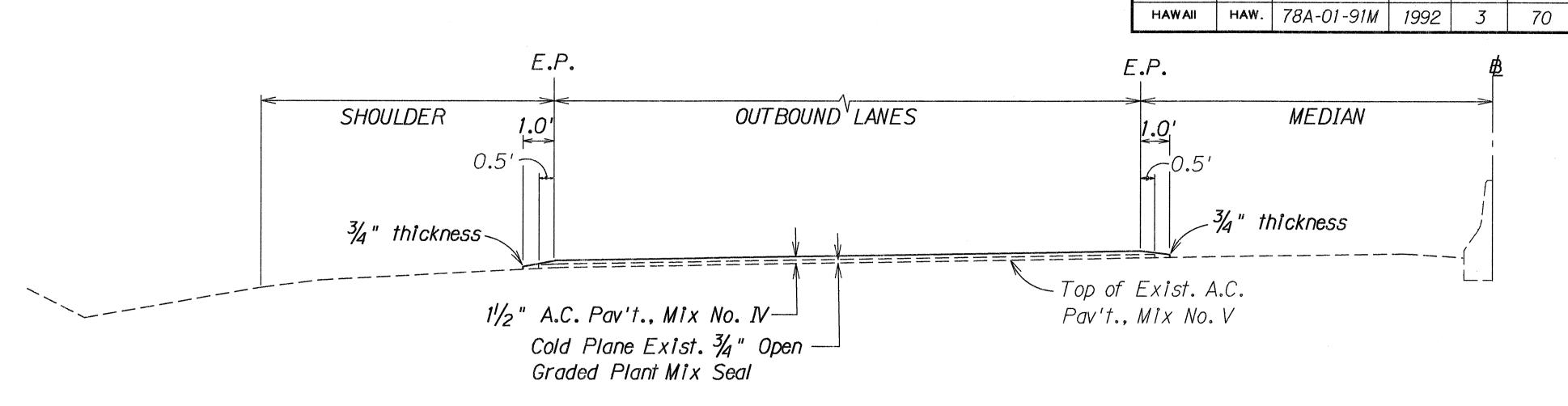
STANDARD PLANS SUMMARY

MOANALUA FREEWAY RESURFACING <u>Aiea Interchange To Moanalua</u> Stream Bridge (Outbound Lanes) PROJECT NO. 78A-01-91M

Date: Dec.,19**91** SHEET No. 1 OF 1 SHEETS

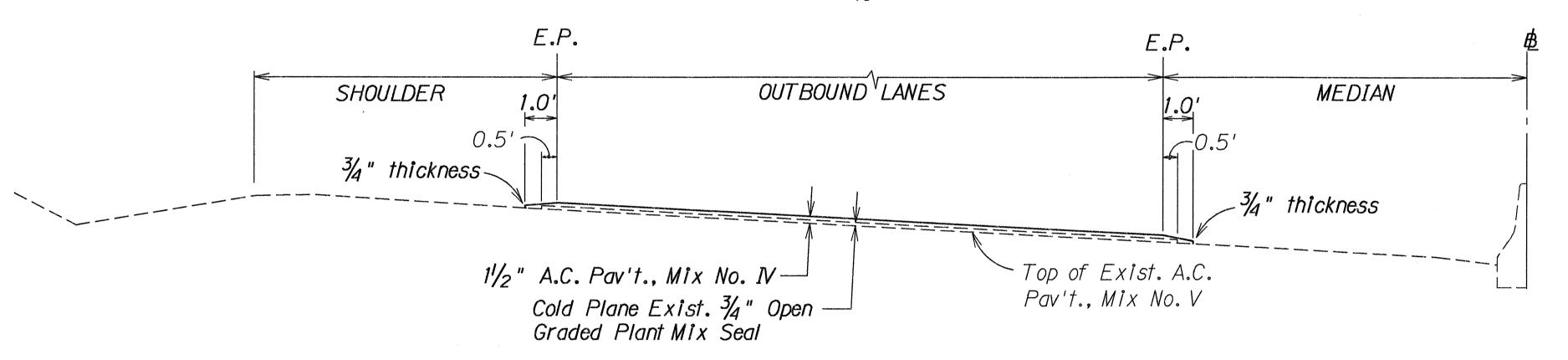
GENERAL NOTES

- This project consists of reconstructing existing weakened pavement areas, removing approximately $\frac{3}{4}$ " thick existing open graded plant mix seal by cold planing, resurfacing with $\frac{1}{2}$ " thick Asphalt Concrete Pavement, Mix No. IV, adjusting manhole frames and covers, refurbishing expressway and destination signs, and installing pavement markers, striping and signing.
- 2. The existence and location of underground utilities, manholes, C&C street survey monuments, centerline monuments and structures as shown on the plans are from the latest available data but the accuracy is not guaranteed. Furthermore, the encountering of other obstacles during the course of work may be possible. The Contractor shall be responsible and shall pay for all damages to existing facilities resulting from his operations.
- 3. The Contractor's attention is directed to Section 107-Legal Relations and Responsibility to Public and Section 645-Traffic Control for traffic control requirements.
- 4. All holes and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. IV prior to resurfacing. This work will be paid for under Item No. 401.0400, Asphalt Concrete Pavement, Mix No. IV.
- 5. The Contractor shall remove and dispose of all existing raised pavement markers in the resurfacing areas prior to overlaying of Asphalt Concrete. This work shall be considered incidental to Item No. 401.0400-Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.
- 6. Smooth riding connections shall be constructed at the beginning and end of project and at all connecting approaches as shown on the plans and as directed by the Engineer.
- 7. No resurfacing shall be done over the bridges. The existing asphalt concrete pavement at the bridge approaches and trailing ends shall be removed by cold planing. For details, see Plan Sheet No. 4.
- 8. Transition cold planing at the beginning and end of project at ramp ends, and at concrete structures will be paid for under Item No. 652.1000-Cold Planing.
- 9. At reconstruction areas adjacent to gutter sections, the contractor shall cold plane the A.C. taper within the gutter section, and construct a new A.C. taper with A.C. Pavement, Mix No. IV to replace the removed taper. The new taper shall be constructed as part of the reconstruction work prior to the resurfacing course. The cold planing and replacement of the A.C. taper shall be paid for under Item No. 652.1000-Cold Planing and Item No. 401.0500-Asphlat Concrete Pavement, Mix No. IV.

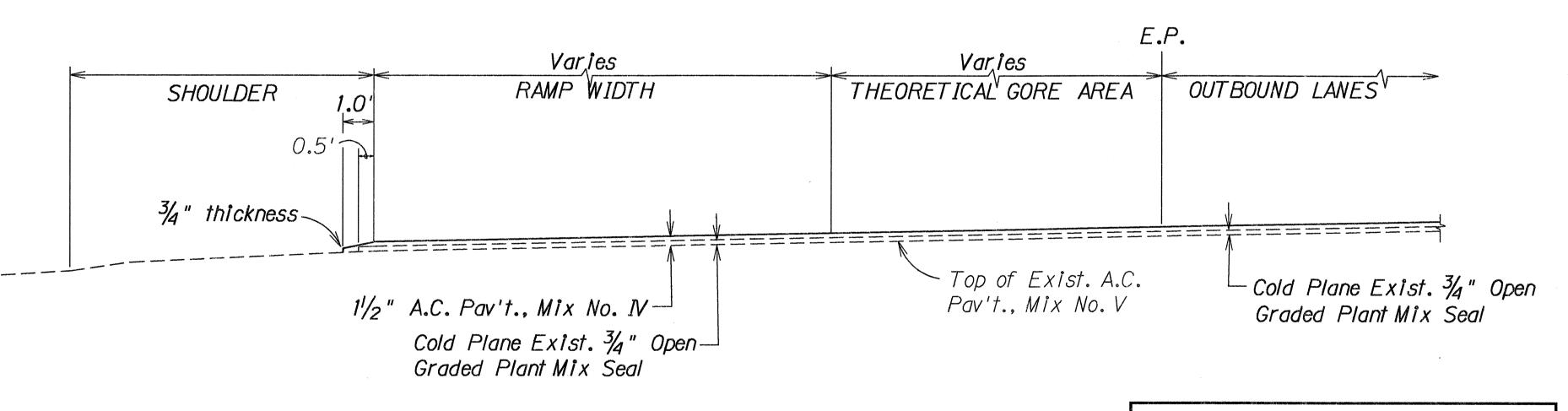


TYPICAL TANGENT HALF SECTION-MOANALUA FREEWAY

Scale: 3/8"=1'-0"



TYPICAL SUPERELEVATED HALF SECTION-MOANALUA FREEWAY Scale: 3/8" = 1' - 0"



TYPICAL SECTION THROUGH RAMP GORE AREA Scale: 3/8"=1'-0"

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL NOTES AND

TYPICAL SECTIONS

MOANALUA FREEWAY RESURFACING

Aiea Interchange to Moanalua

Stream Bridge (Outbound Lanes)

PROJECT NO. 78A-01-91M

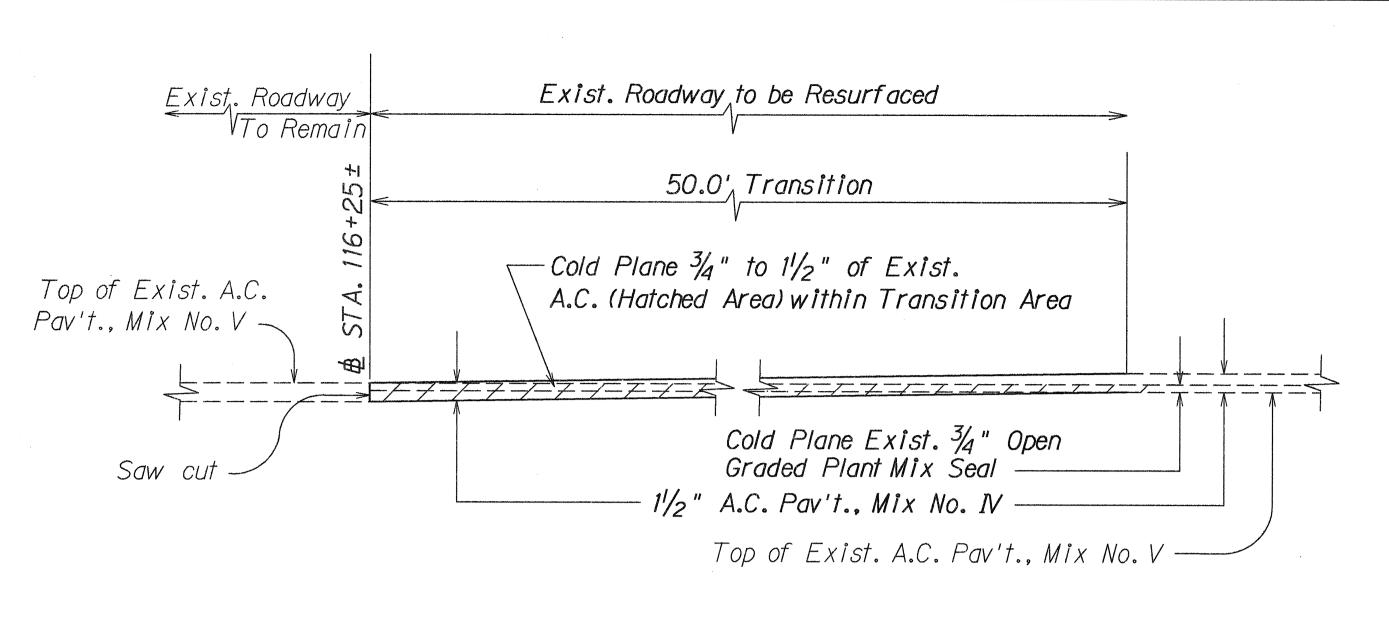
Scale: As Noted Date: Dec, 1991

SHEET No. 1 OF 1 SHEETS

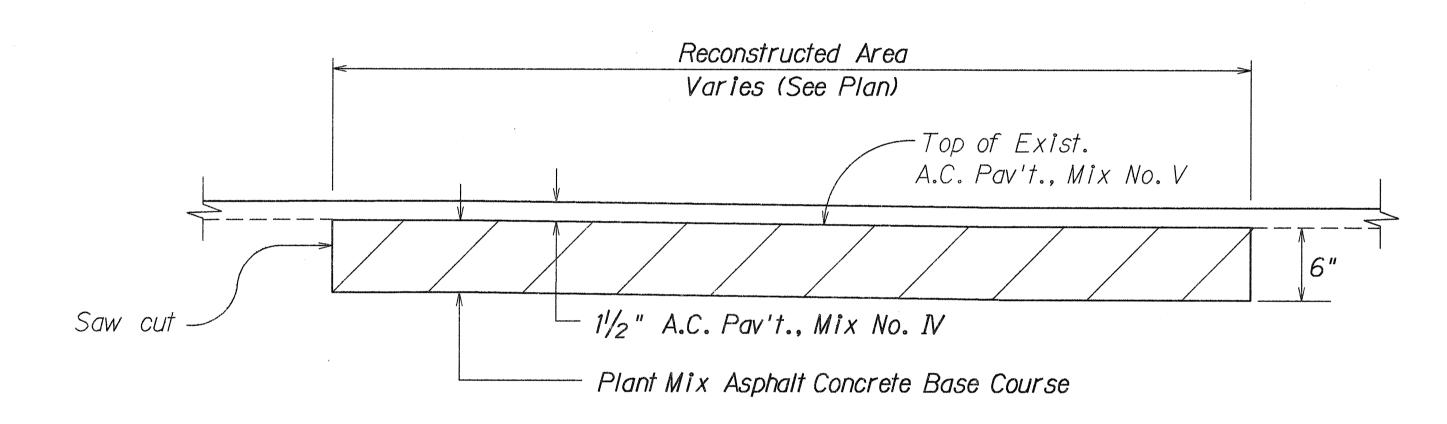
FISCAL SHEET TOTAL YEAR NO. SHEETS

FED. ROAD STATE

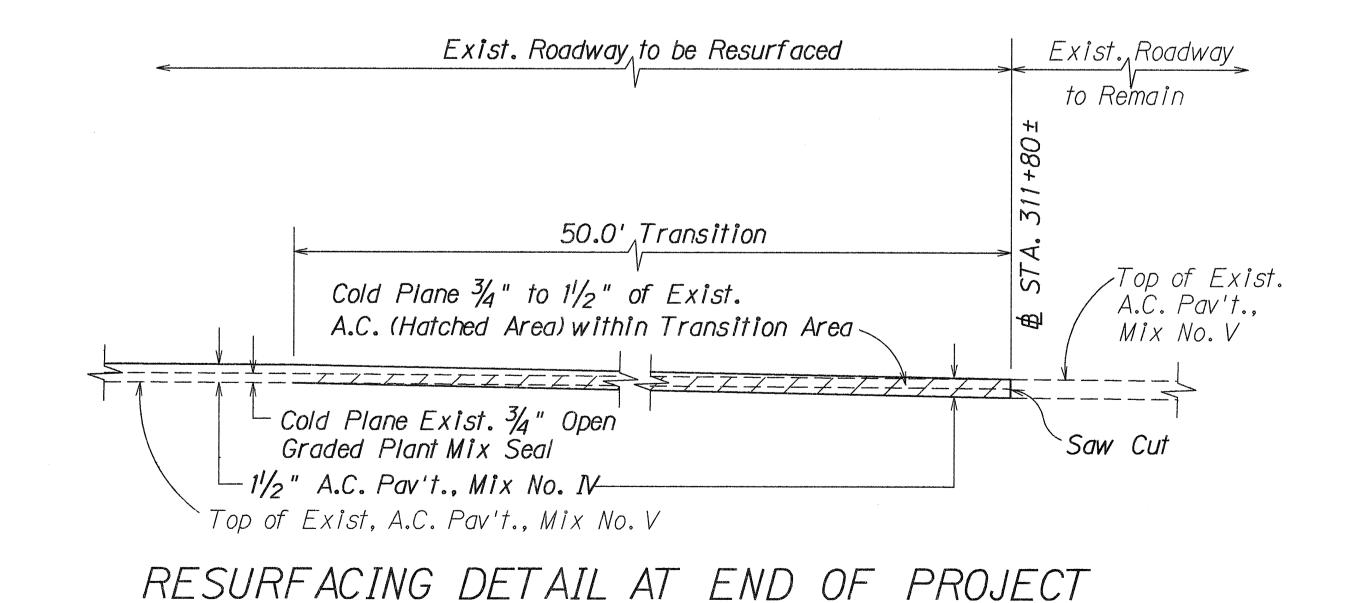
PROJ. NO.



RESURFACING DETAIL AT BEGINNING OF PROJECT Not to Scale

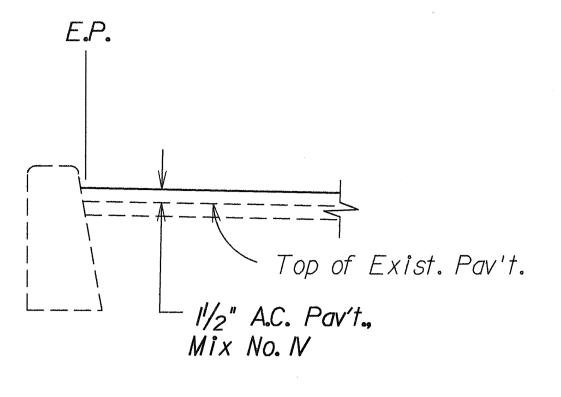


TYPICAL RECONSTRUCTION AREA Not to Scale

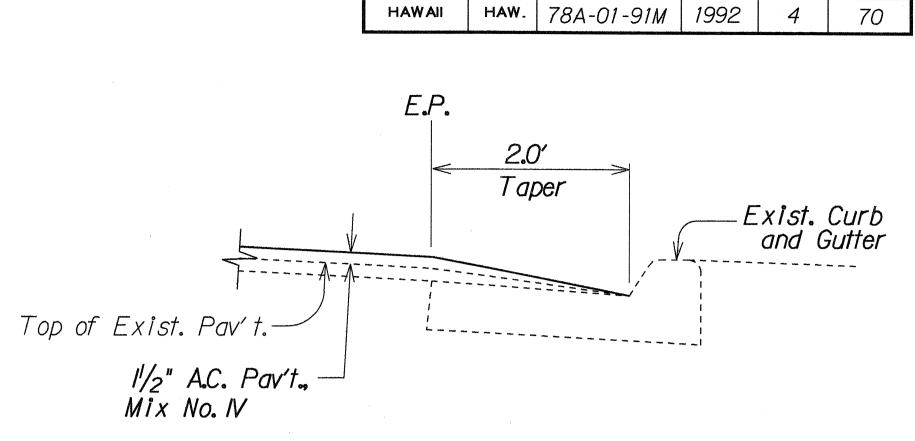


Not to Scale

Top of Exist. A.C. Pav't., Mix No. V TYPICAL DETAIL-TRANSITION AT CONCRETE STRUCTURE Not to Scale

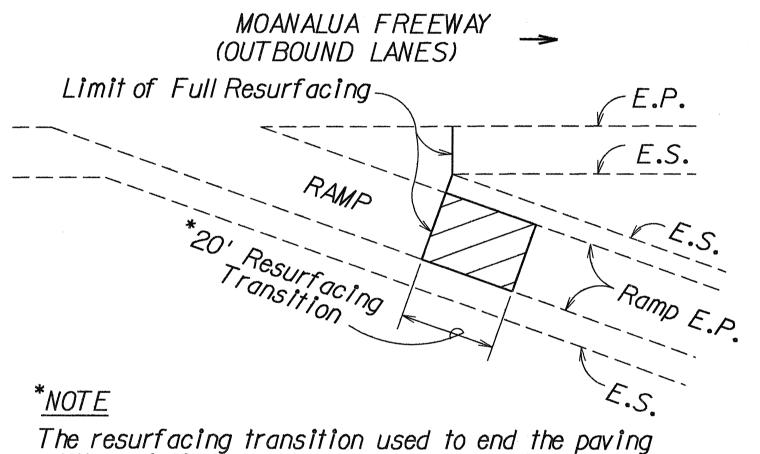


TYPICAL DETAIL AT EXISTING CURB Not to Scale



TYPICAL DETAIL AT EXISTING CURB AND GUTTER

Not to Scale



The resurfacing transition used to end the paving at the existing ramp pavement shall be similar to "Resurfacing Detail at End of Project", as shown on this sheet.

PLAN

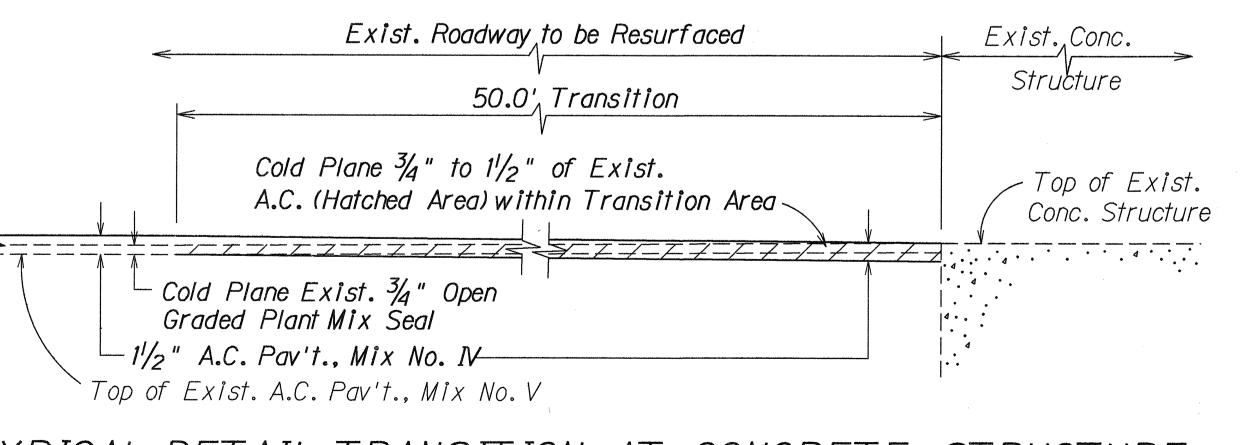
- 1/2" A.C. Pav't., Mix No. IV Exist. A.C. Pav't Structure Fill Depressions In Exist. A.C. Pav't With A Layer Of Leveling Course Of A.C. Pav't Mix No. IV

FISCAL SHEET TOTAL YEAR NO. SHEETS

LEVELING COURSE DETAIL

Not to Scale

TYPICAL DETAIL-RAMP RESURFACING Not to Scale



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

MOANALUA FREEWAY RESURFACING Aiea Interchange to Moanalua Stream Bridge (Outbound Lanes) PROJECT NO. 78A-01-91M Date: Dec, 1991 Scale: As Noted

SHEET No. 1 OF 1 SHEETS

SURVEY PLOT
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES F

