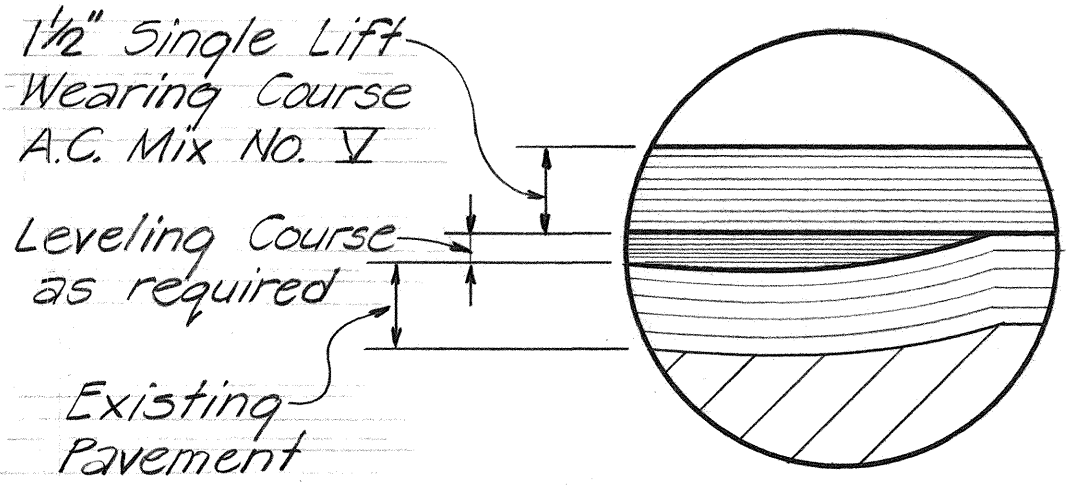


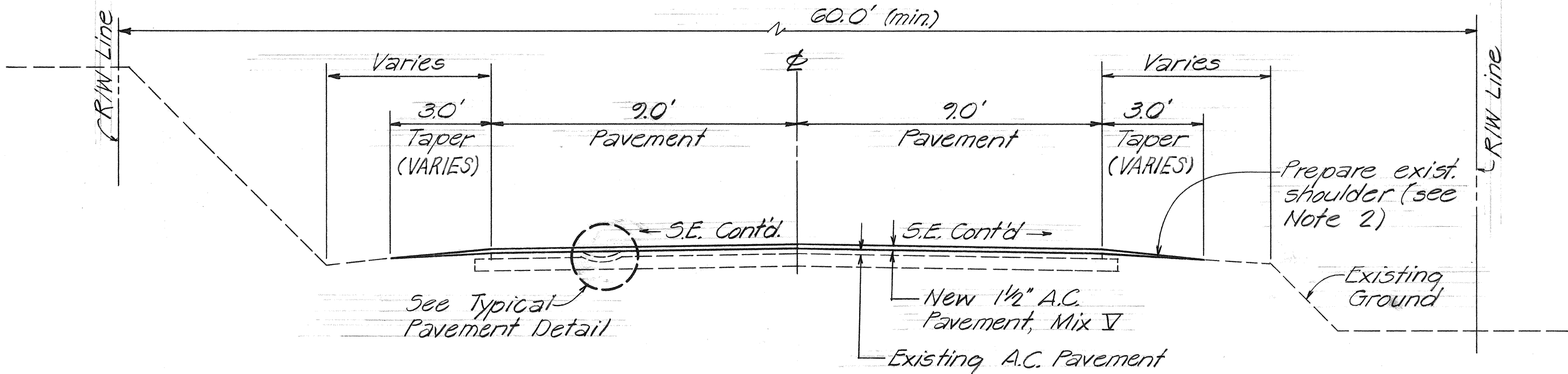
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	12D-01-20M 250A-01-20M	1990	9	14

GENERAL NOTES

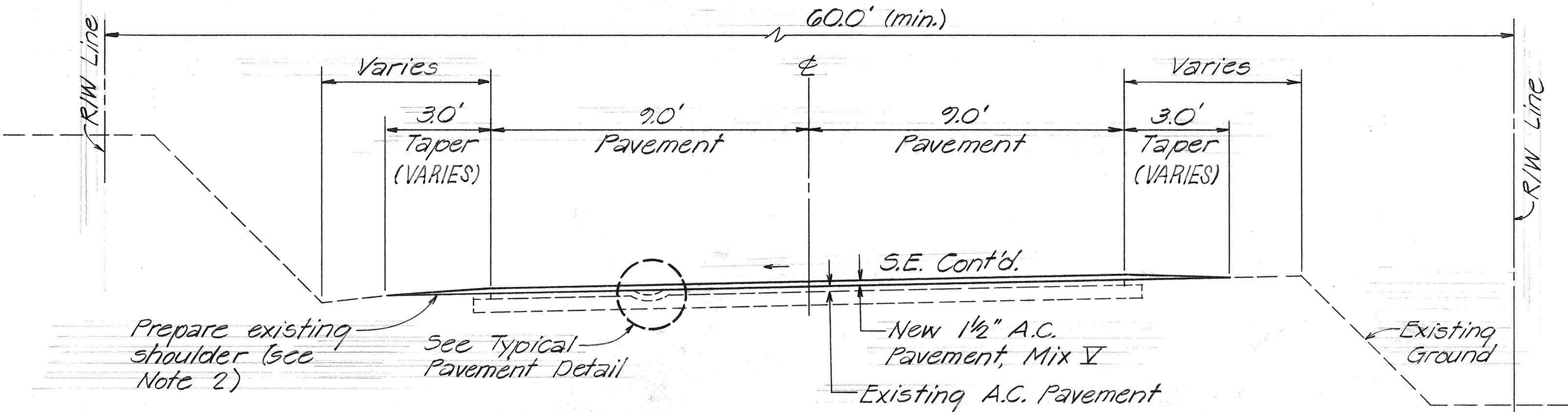
- Improvements consist of preparation of existing shoulder areas for paving, reconstructing weakened pavement areas, resurfacing the existing pavement, installing pavement markers, and reconstructing and adjusting centerline survey monuments.
- Preparation of existing shoulder areas for paving shall be done by the contractor. This work shall include cleaning and grubbing, backfilling edge of pavement drop-offs to maintain existing pavement slope and shoulder compaction. This work shall be incidental to item no. 401.0500-Asphalt Concrete Pavement, Mix no. V.
- All construction signs shall be reflectorized with high intensity reflective sheeting.
- Pavement areas where striping is to be done shall be broomed off by the contractor prior to striping by state forces.
- Asphalt concrete for leveling course shall be paid for under item no. 401.0500-Asphalt Concrete Pavement Mix No. V.
- Tack coat shall be incidental to item no. 401.0500-Asphalt Concrete Pavement Mix No. V.
- Existing pavement surface variable. Surface indicated here is not intended to represent any specific location.
- Construct smooth and easy riding connection to existing roadway at beginning and end of project and at the end of daily work.



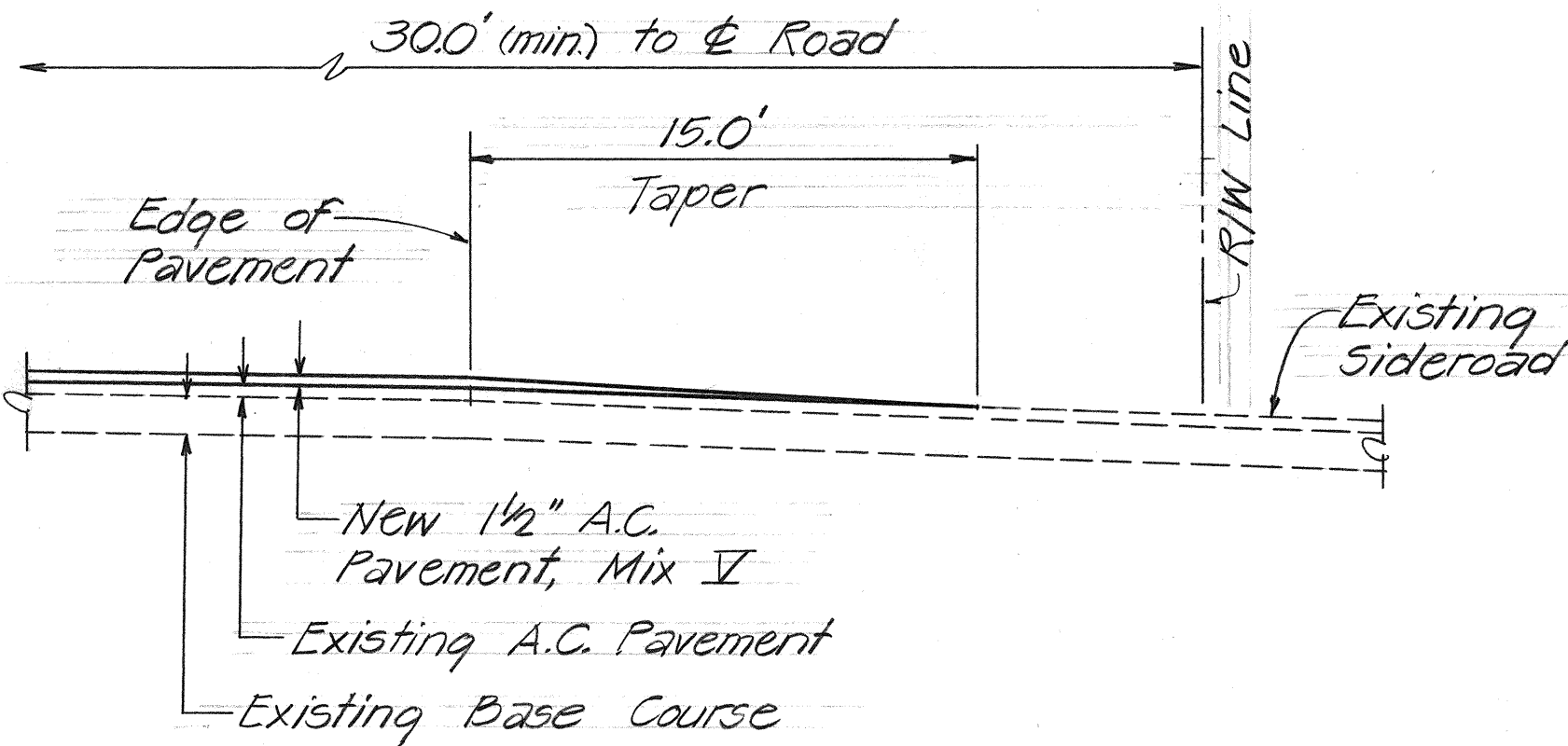
TYP. PAVEMENT DETAIL
Not to Scale



TYPICAL TANGENT SECTION
Not to Scale



TYPICAL SUPERELEVATED SECTION
Not to Scale



SIDEROAD CONNECTION DETAIL
Not to Scale

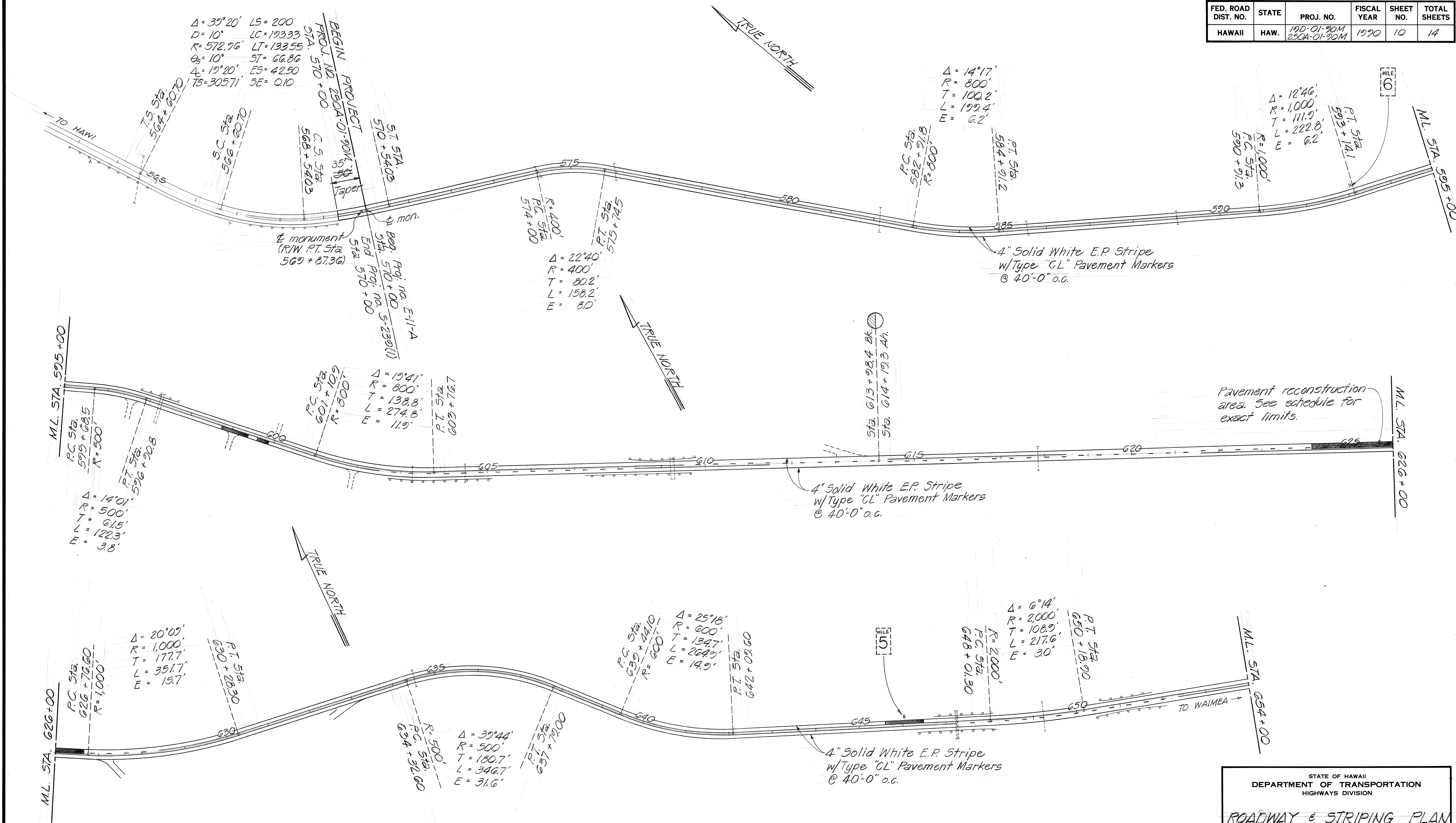
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TYPICAL SECTIONS
AND DETAILS**
 KOHALA MOUNTAIN ROAD RESURFACING
 Waiaka Bridge Towards Hawi
 Proj. no. 250A-01-20M
 Not to Scale Date: Sept. 1989

SHEET No. 1 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	190-01-90M 250A-01-90M	1990	10	14



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & STRIPING PLAN

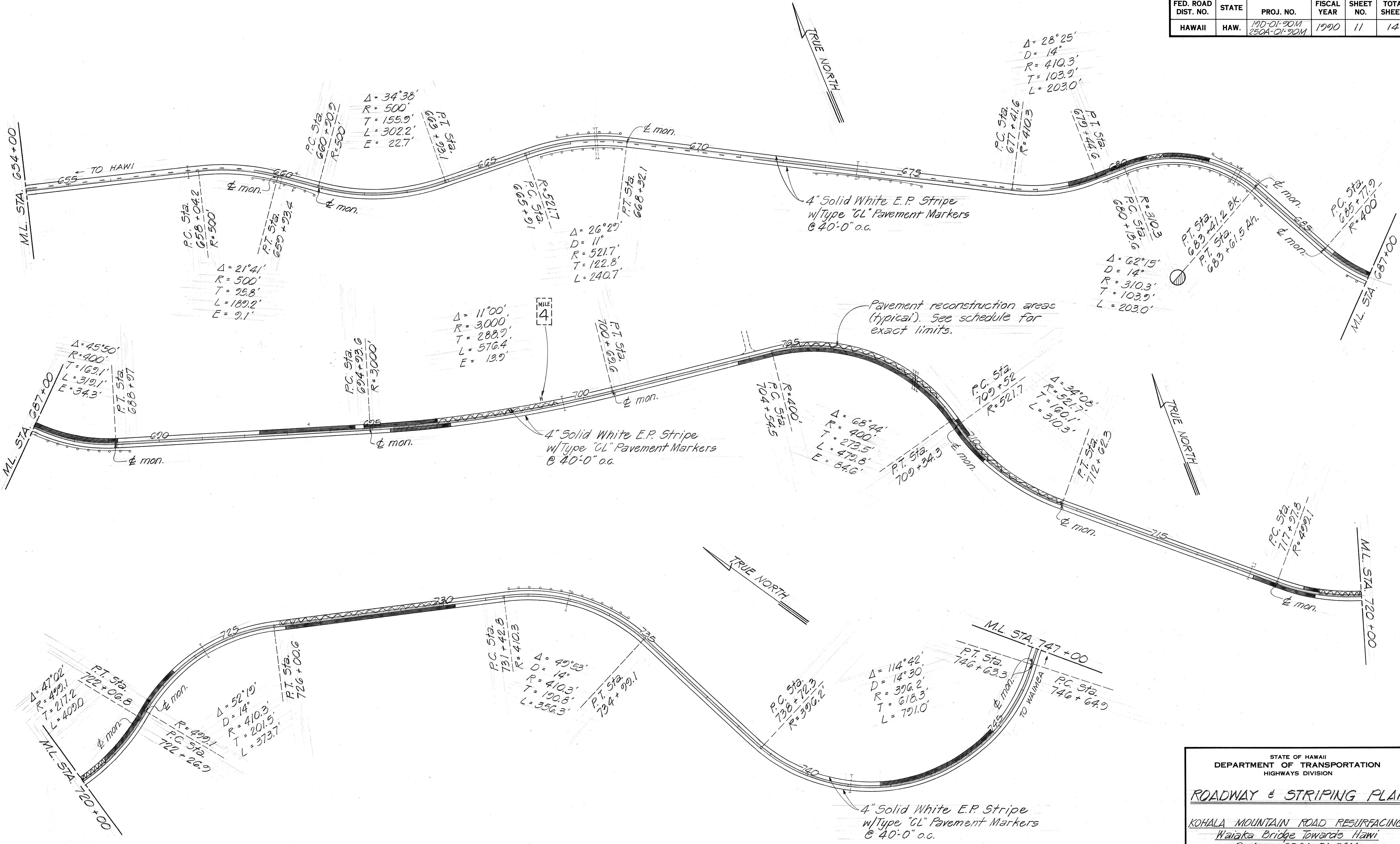
KOHALA MOUNTAIN ROAD RESURFACING
Waiaka Bridge Towards Hawi
Proj. no. 250A-01-90M

Scale: 1"=100' Date: Sept. 1989

SHEET NO. 2 OF 6 SHEETS

AS-BUILT

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	190-01-20M 250A-01-20M	1990	11	14



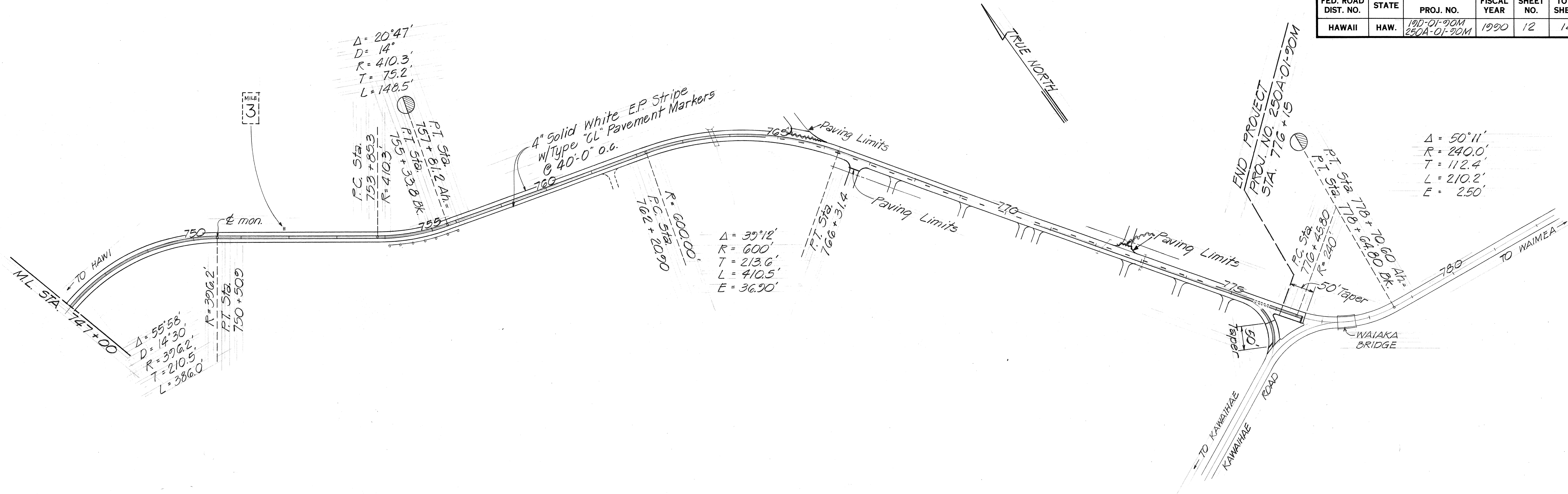
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & STRIPING PLAN

KOHALA MOUNTAIN ROAD RESURFACING
Waiaka Bridge Toward's Hawi
Proj. no. 250A-01-20M
Scale: 1"=100' Date: Sept. 1989
SHEET NO. 3 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	190-01-90M 250A-01-90M	1990	12	14



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & STRIPING PLAN

KOHALA MOUNTAIN ROAD RESURFACING
Waiaka Bridge Towards Hawi
Proj. no. 250A-01-90M

Scale: 1"=100' Date: Sept. 1989
SHEET No. 4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	120-01-20M 250A-01-20M	1990	13	14

PAVEMENT MARKER SCHEDULE						
STATION		DESCRIPTION	TYPE			
FROM	TO		DL	HL	J	GL
569 + 50	602 + 50	No Passing - Both Sides	166			168
602 + 50	608 + 35	No Passing L - Passing R	15	14	56	30
608 + 35	609 + 50	No Passing - Both Sides	7			6
609 + 50	611 + 50	Passing L - No Passing R	5	5	20	10
611 + 50	614 + 25 BK 614 + 45 AH	Passing - Both Sides	8		28	14
614 + 25 BK 614 + 45 AH	618 + 50 BK 618 + 70 AH	No Passing L - Passing R	10	11	44	20
618 + 50 BK 618 + 70 AH	621 + 50	Passing - Both Sides	8		28	14
621 + 50	628 + 50	Passing L - No Passing R	18	18	72	36
628 + 50	647 + 25	No Passing - Both Sides	25			94
647 + 25	652 + 25	No Passing L - Passing R	13	12	48	26
652 + 25	654 + 25	No Passing - Both Sides	11			10
654 + 25	659 + 25	Passing L - No Passing R	13	12	48	26
659 + 25	667 + 00	No Passing - Both Sides	40			38
667 + 00	671 + 30	No Passing L - Passing R	11	10	40	22
671 + 30	674 + 00	No Passing - Both Sides	14			14
674 + 00	678 + 30	Passing L - No Passing R	11	10	40	22
678 + 30	764 + 75	No Passing - Both Sides	433			432
764 + 75	769 + 25	No Passing L - Passing R	12	12	48	22
769 + 25	770 + 35	Passing - Both Sides	3			6
770 + 35	774 + 85	Passing L - No Passing R	12	12	48	22
774 + 85	776 + 65	No Passing - Both Sides	10			10
765 + 47		Sideroad Left	3			2
766 + 76		Sideroad Right	3			2
722 + 62		Sideroad Left	3			2
		Route 10 - To Kawaihae	6			4
TOTALS			930	116	520	1052
			903	115		1041

NOTES:

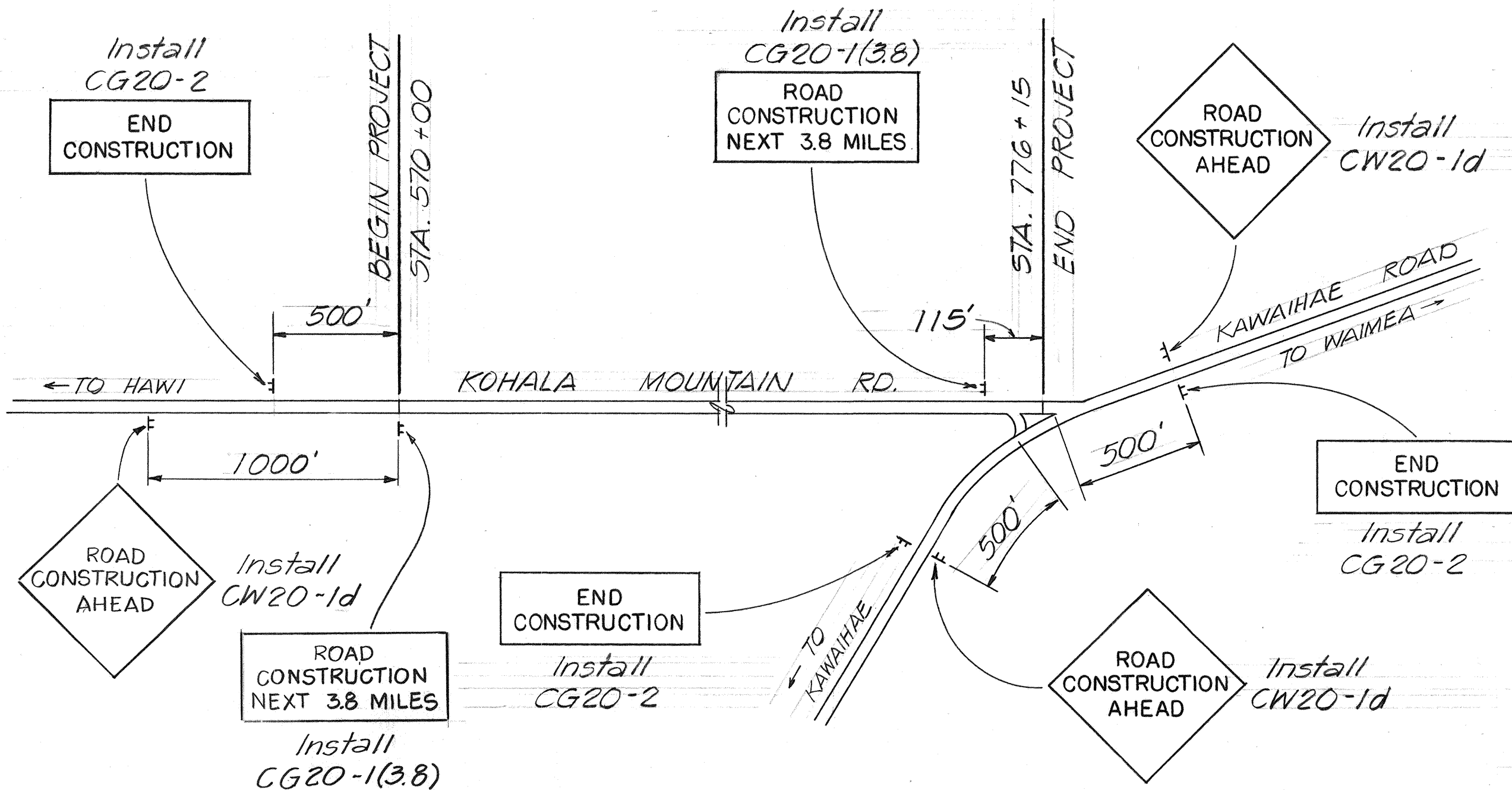
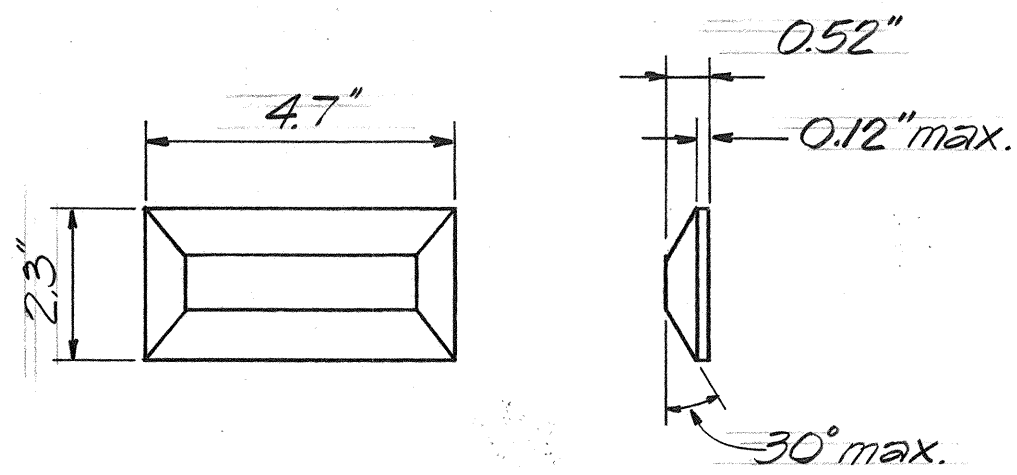
- Layout of pavement markers shall be done by the Contractor and approved by the Engineer prior to any installation work.
- Pavement areas to be striped shall be broomed off by the Contractor prior to striping by the State.
- Details of Type C, Type D and Type H Markers on Standard Plan Nos. TE-30, TE-31 and TE-32 shall be deleted and replaced with details of Type GL, Type DL and Type HL Markers as shown on this sheet. All references to Type C, Type D and Type H Markers in the plans shall mean Type GL, Type DL and Type HL Markers.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.

Type "GL": Red-Clear Reflective Marker
Type "DL": Two-Way Yellow Reflective Marker
Type "HL": One-Way Yellow Reflective Marker

MONUMENT SCHEDULE					
EXISTING PROJ. NO.	STATION	* RECONSTRUCT (Item no. 613.0100)	ADJUST EXISTING (Item no. 613.0110)	± OFFSET (FT)	EXIST. DEPTH (FT)
5-239(1)	(RW) P.T. 569 + 87.36		1	0	0
	P.O.C. 570 + 00		1	0	0
	P.T. 659 + 93.4	1		1.2 RT.	0.23
	P.C. 660 + 90.9	1	+	0.7 RT.	0.12
	P.T. 668 + 32.1	1	+	1.2 LT.	0.12
	P.T. 683 + 41.2 BK P.T. 683 + 61.5 AH	1		1.0 LT.	0.22
	P.C. 685 + 77.9	1		0	0.25
	P.T. 688 + 97	1	+	1.2 RT.	0.17
	P.C. 694 + 93.6	1		0.2 LT.	0.25
E.A.P. E-11-A	P.T. 700 + 69.6	1		0.4 LT.	0.20
	P.T. 709 + 34.3	1		1.5 LT.	0.23
	P.T. 712 + 62.3	1		1.9 RT.	0.20
	P.C. 717 + 97.8	1		1.8 LT.	0.3
	P.T. 722 + 06.80	1		1.2 RT.	0.3
	P.C. 722 + 26.9	1		0	0.29
	P.T. 746 + 63.3	1		1.0 RT.	0.23
	P.C. 746 + 64.9	1		1.0 RT.	0.22
	P.T. 750 + 50.9	1		0.8 LT.	0.33
TOTALS		16 EA.	2 EA.		

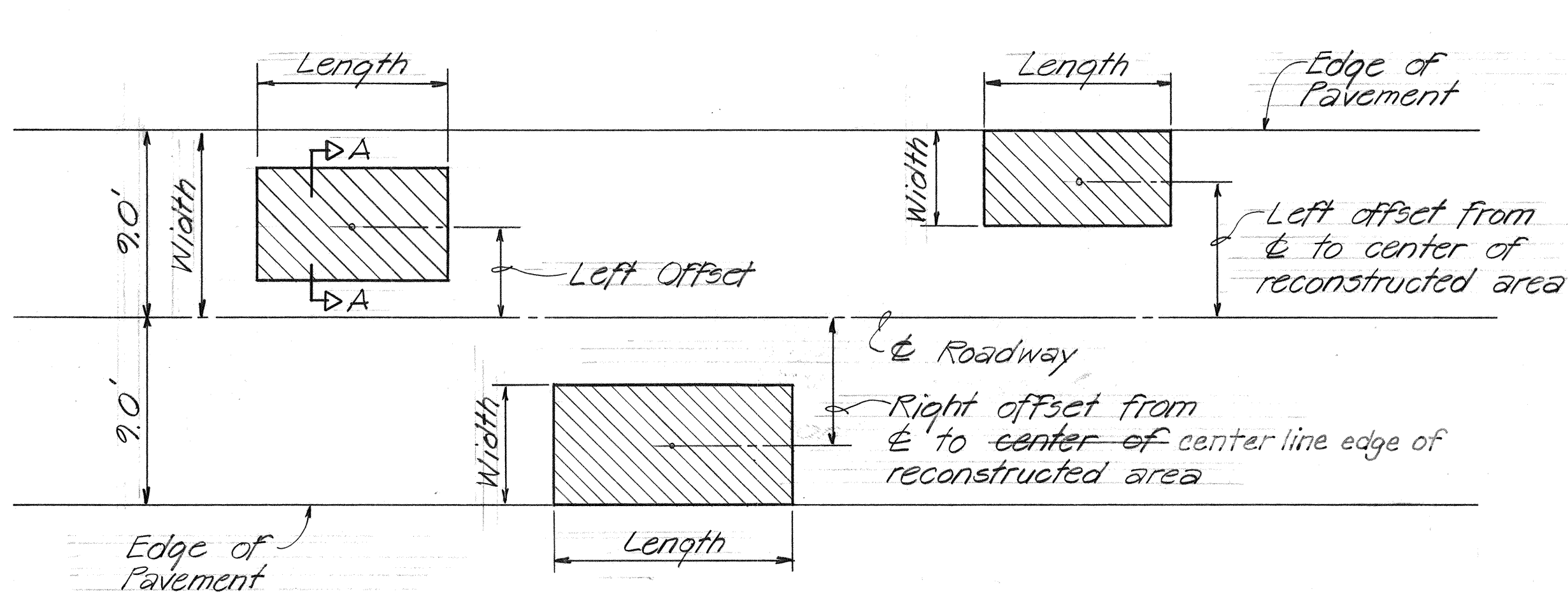
* = Remove existing ± monument. Refer to Standard Plan D-06 for details of new ± monument installation.

CONSTRUCTION SIGN SCHEDULE		
EXISTING PROJ. NO.	STATION	TYPE (Item no. 621.7100)
E-11-A	560 + 00 RT.	CW20-1d
	565 + 00 LT.	CG20-2
	570 + 00 RT.	CG20-1(3.8)
	775 + 00 LT.	CG20-1(3.8)
	782 + 50 RT.	CG20-2
	782 + 50 LT.	CW20-1d
11-C	499 + 50 RT.	CW20-1d
	499 + 50 LT.	CG20-2
TOTAL		8 - Ea.

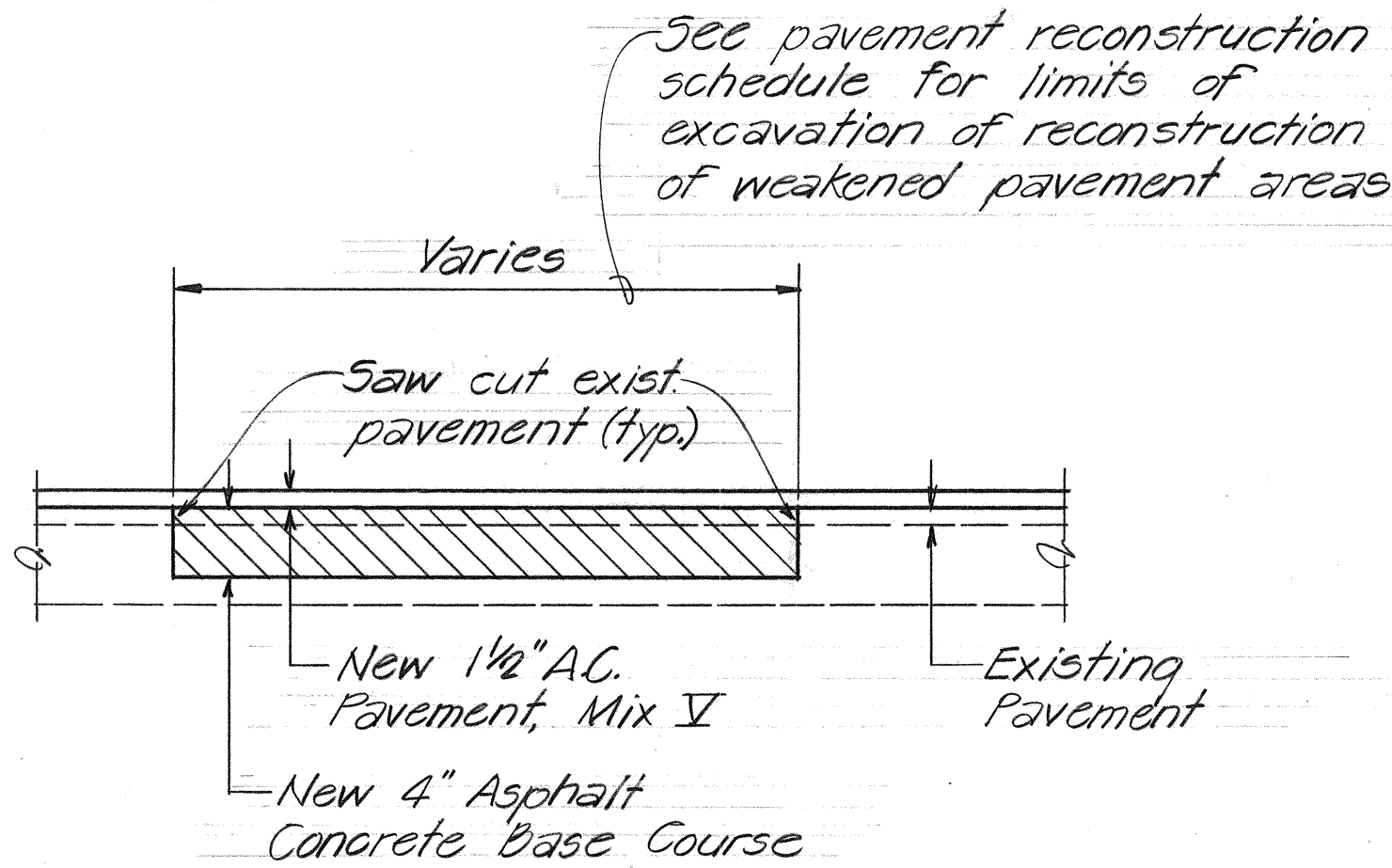


STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CONSTRUCTION SIGN PLAN DETAILS & SCHEDULES	
KOHALA MOUNTAIN ROAD RESURFACING Waikaka Bridge Towards Hawi Proj. no. 250A-01-20M	
Not to Scale	Date: Sept. 1989
SHEET No. 5 OF 6 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	250A-01-90M	1990	14	14



TYPICAL ROADWAY PLAN



TYPICAL SECTION A-A

PAV'T RECONSTRUCTION SCHEDULE					
STATION		LENGTH (Lin. Ft.)	OFFSET (Ft.)	WIDTH (Ft.)	AREA (Sq. Ft.)
FROM	TO				
6+60	624+81	247	3.5	6.33	1,563.51
624+13	624+81	68	7 Lt.	4	272
624+81	626+60	179	7.5 Lt.	3	637
628+75	670+60	85	4.5 Lt.	9	765
670+60	682+15	255	6 Lt.	6	1,530
686+00	688+80	280	7 Lt.	4	1,120
695+50	696+50	100	7.5 Rt.	3	300
696+50	699+30	280	7 Lt.	4	1,120
705+00	708+75	375	7 Lt.	4	1,500
709+40	712+60	320	7.5 Lt.	3	960
719+00	722+50	350	7.5 Lt.	3	1,050
726+15	730+00	385	7 Lt.	4	1,540
741+75	744+80	305	7.5 Lt.	3	915
TOTAL					11,609

RECONSTRUCTION NOTES

The exact limits and locations of Pavement Reconstruction shall be determined by the Engineer in the field. Payment for this work will be made under item nos. 301.0100 - 'Plant Mix Asphalt Concrete Base Course,' and 651.0100 - 'Excavation for Reconstruction of Weakened Pavement Areas.'

REVISED- PAV'T RECONSTRUCTION SCHEDULE					
STATION		OFFSET (ft.)	LENGTH (lin. ft.)	WIDTH (ft.)	TONS
FROM	TO				
744+80	741+75 Lt.	1.75	305	6.33	50.15
730+26	726+25 Rt.	3.40	401	"	65.93
723+39	720+72 Lt.	0.00	267	"	43.90
719+02	718+68 Lt.	3.50	34	"	5.59
718+91	717+41 Rt.	4.00	150	"	24.66
709+82	709+37 Lt.	4.20	45	"	7.40
710+50	703+75 Rt.	4.00	675	"	110.98
696+50	694+80 Lt.	3.50	170	"	27.95
694+56	692+35 Lt.	3.50	221	"	36.34
696+80	695+40 Rt.	3.00	140	"	23.02
689+00	688+80 Lt.	3.50	20	"	3.29
688+80	687+00 Lt.	1.50	180	"	29.60
687+00	686+00 Lt.	4.50	100	"	16.44
682+15	681+70 Lt.	2.50	45	"	7.40
681+70	681+09 Lt.	1.00	61	"	10.03
680+69	679+61 Lt.	2.00	108	"	17.76
679+61	678+75 Lt.	1.00	86	9.00	20.10
626+60	624+13 Lt.	3.50	247	6.33	40.61
SLIB-TOTAL					20,833.77 S.F. 541.15 TONS

NEW ADDITIONAL RECONSTRUCTION SCHEDULE					
STATION		OFFSET (ft.)	LENGTH (lin. ft.)	WIDTH (ft.)	TONS
FROM	TO				
765+15	764+15 Lt.	3.50	100	6.33	16.44
646+46	645+57 Lt.	3.50	89	"	14.63
599+88	599+60 Rt.	3.00	28	"	4.60
599+39	598+73 Rt.	4.00	66	"	10.85
SLIB-TOTAL					1,791.39 S.F. 46.52 TONS

TOTALS 22,625.16 S.F. 587.67 TONS

AS-BUILT POSTING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT RECONSTRUCTION
DETAILS & SCHEDULE
KOHALA MOUNTAIN ROAD RESURFACING
Waiaka Bridge Towards Hawi
Proj. no. 250A-01-90M
Not to Scale Date: Oct. 1989

SHEET NO. 6 OF 6 SHEETS

DATE: _____
DESIGNED BY: _____
CHECKED BY: _____
NO. _____

ORIGINAL PLAN
NOTE BOOK
QUANTITIES BY
DESIGNED BY
CHECKED BY