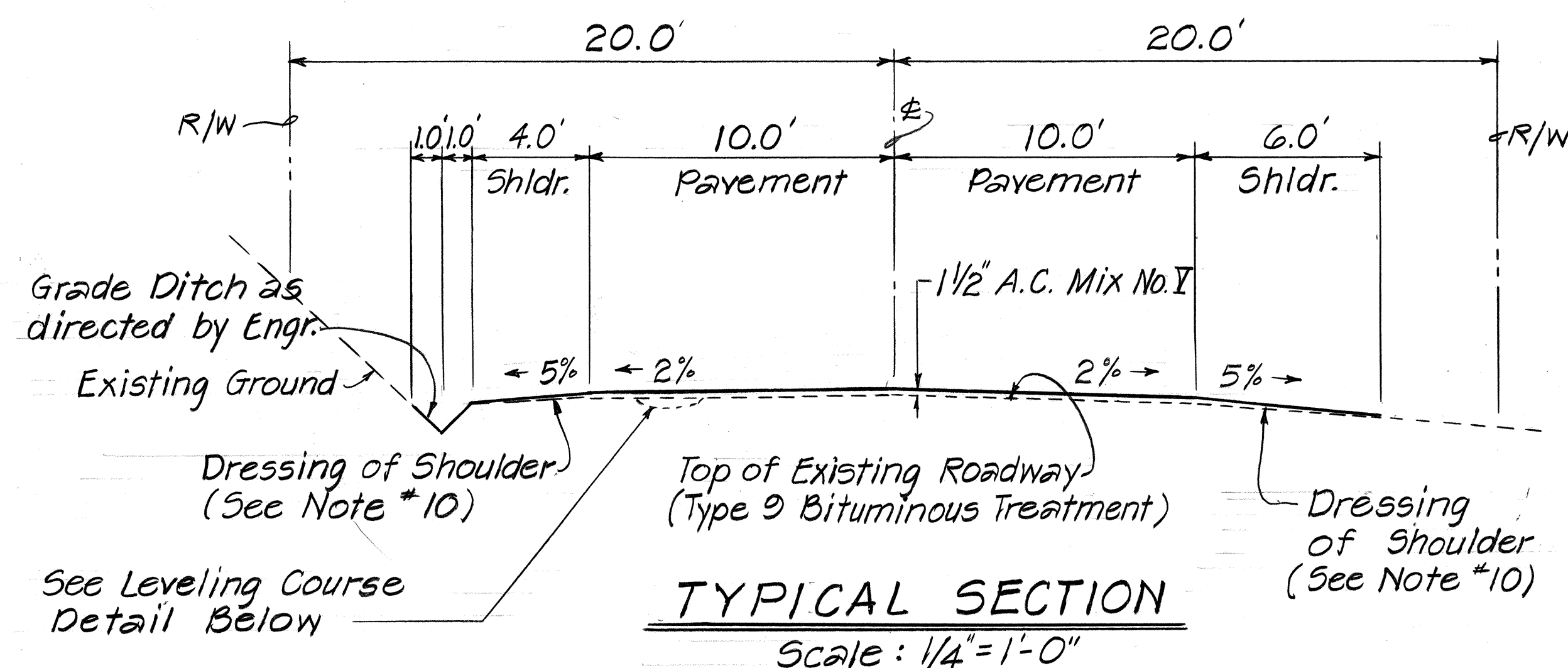
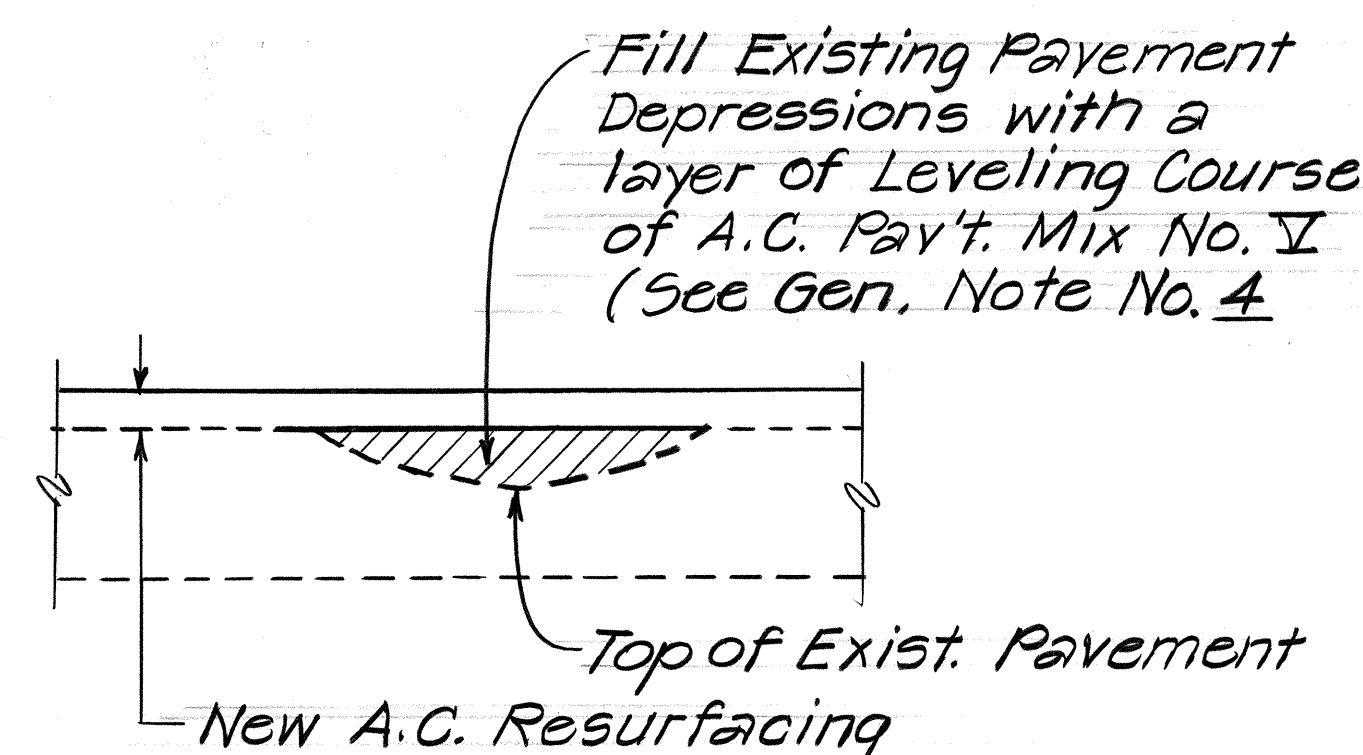


FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	440A-01-88M	1988	3	5



REGULATORY & WARNING SIGN W/ POST SUMMARY (10 sq. ft. or less)

STATION	REGULATORY	QTY.
1+00 Rt.	R2-1(15)	1
14+28 Lt.	R4-1	1
20+65 Lt.	R2-1(15)	1
29+80 Lt.	R4-1	1
TOTAL		4



REFLECTOR MARKER W/POST SUMMARY

CULVERT STATION	RM-4(R)	RM-4(L)
17+80	2	2
24+60	2	2
TOTAL		4

PAYEMENT STRIPING & MARKER SUMMARY

STATION TO STATION	CONDITION	4" WHITE (L.F.)	4" YELLOW (L.F.)	4" DOUBLE YELLOW (L.F.)	TYPE "DL" (EA.)	TYPE "HL" (EA.)	TYPE "J" (EA.)
0+35 - 30+65	Edge Striping	6,080					
0+35 - 4+78	One Way Pass'g. Rt.		403		12	12	40
4+78 - 14+28	Passing Rt., Lt.				25		100
14+28 - 21+15	One Way Pass'g. Lt.		687		19	19	73
21+15 - 30+65	No Pass'g. Rt., Lt.			950	49		
0+25 - 0+75	No Pass'g.			50			
TOTAL		6,080	1,090	1,000	105	27	204

GENERAL NOTES

- This Project begins at Kaumalapau Highway intersection and proceeds towards the Lanai Airport. The overall length of this project is 0.57 miles.
- Improvements consists of roadway resurfacing with asphalt concrete, pavement striping and markers, install regulating signs and grade existing shoulders and ditches.
- 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. 401.0501 - Asphalt Concrete Pavement, Mix No. V.
- All holes, cracks and large depressions 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. 401.0501 - Asphalt Concrete Pavement.
- Smooth riding connections shall be constructed at the beginning and end of the project, at all connecting approaches, at extra widening and at areas directed by the Engineer. Payment shall be made under Item No. 401.0501 - Asphalt Concrete Pavement, Mix No. V.
- In general, the total A.C. pavement overlay thickness shall be 1 1/2 inches unless otherwise directed by the Engineer.
- The Contractor's attention is directed to Section 104.04 and Section 645 of the Specifications concerning maintenance of traffic and traffic control. Payment for police officers and additional traffic control devices required by other agencies shall be considered incidental to various items of work. All other items not shown on the contractor's traffic control plans that required by the Engineer will be measured and paid for on force account basis.
- Before resurfacing, the contractor shall remove and dispose of existing raised pavement markers. This work shall be considered incidental to asphalt concrete pavement item.
- The contractor shall reference all existing pavement markings prior to resurfacing. Final placement of the new pavement markings shall be approved by the Engineer. See Standard Plan TE-30 for more details.
- The contractor shall immediately fill, compact and fine grade shoulders and ditches upon completion of the resurfacing work. Aggregate for dressing of shoulders shall conform to the requirements of Section 703.23 of the Standard Specifications. Limits of shoulder and/or ditch grading shall be approved by the Engineer prior to grading operation. Payment for this work shall be made under item No. 203.0230 - Fill, compact and fine grade shoulders and ditches.
- The contractor shall verify the location of the existing water lines at Sta. 24+60± Lt., and other underground utility lines at the entrance to the Airport prior to commencing work on the project. The contractor shall notify the State, in writing, two (2) weeks prior to starting paving operation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYP. SECTIONS, GEN. NOTES,
PAV'T. MARK'G. & SIGN SUMM.

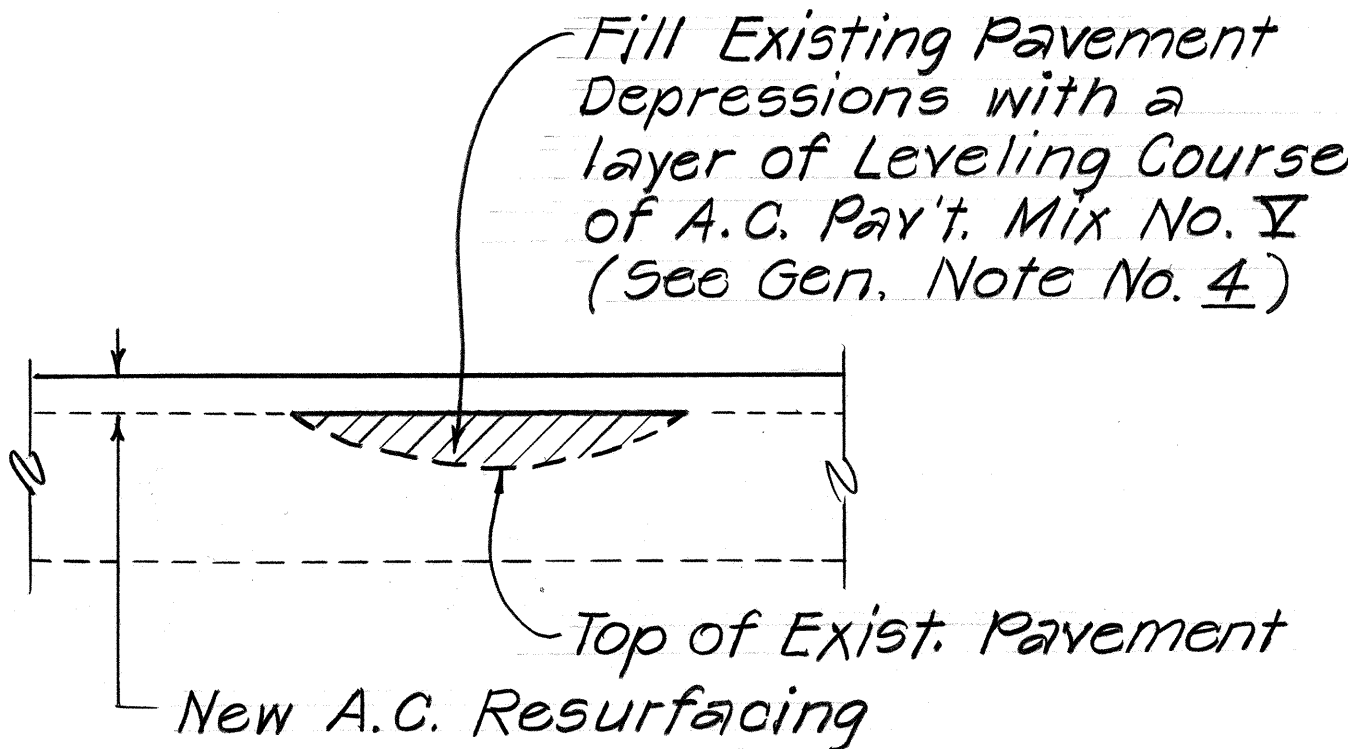
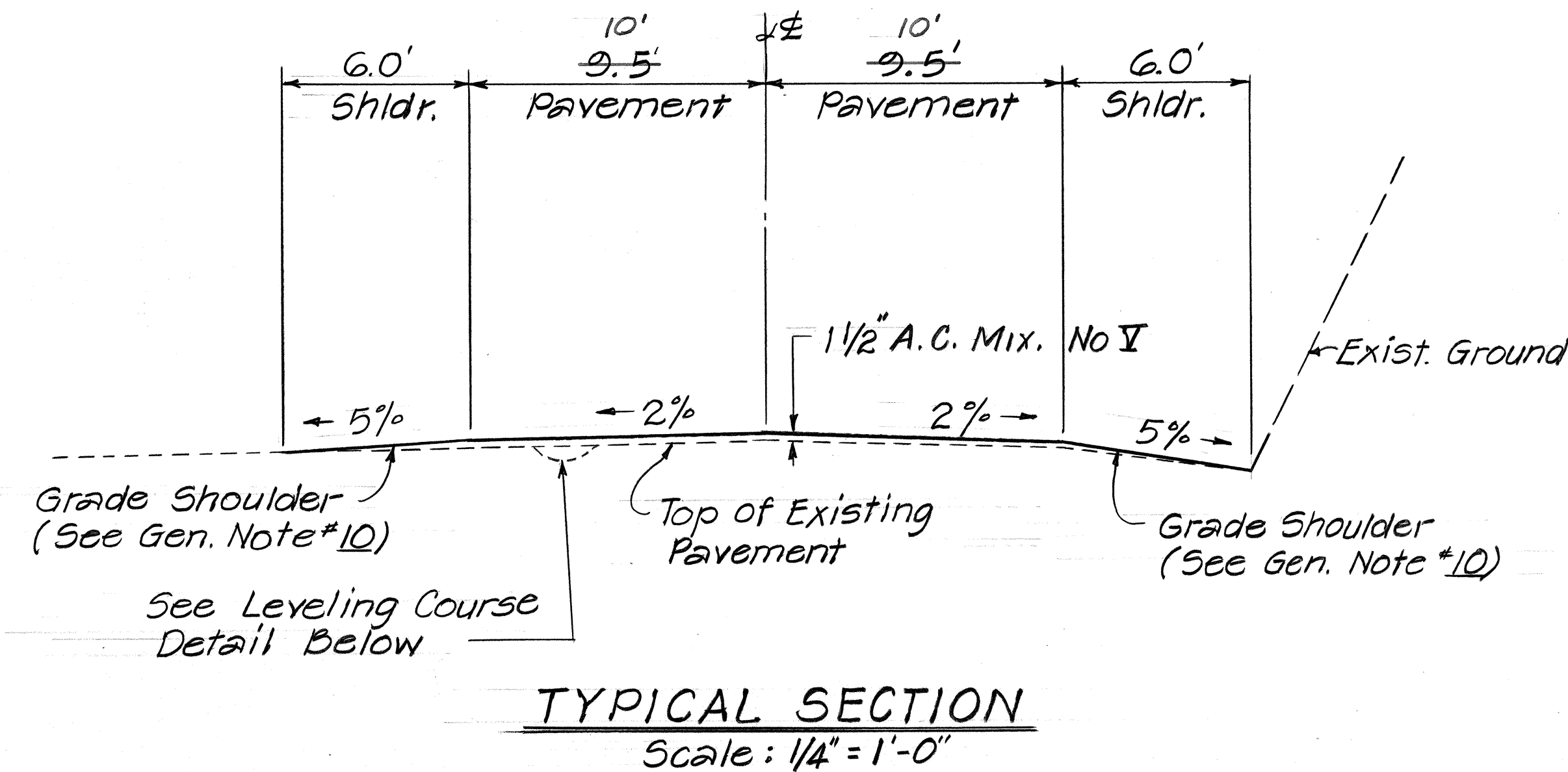
LANAI AIRPORT ROAD RESURFACING
Kaumalapau Hwy. to Airport
PROJ. NO. 440A-01-88M
Scale: As Shown Date: July, 1987

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID- PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	440B-01-88M	1988	4	5

GENERAL NOTES

- This project begins at Kaumalapau Highway intersection and proceeds towards Manele Harbor. The overall length of this project is 0.64 miles.
- Improvements consists of roadway resurfacing with asphalt concrete, pavement striping and markers, install regulatory signs and grade existing shoulders.
- 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. 401.0501 - Asphalt Concrete Pavement, Mix No. I.
- All holes, cracks and large depressions shall be filled, leveled and compacted with A.C. Pavement, Mix No. I prior to resurfacing as directed by the Engineer. Payment shall be made under Item No. 401.0501 - Asphalt Concrete Pavement.
- Smooth riding connections shall be constructed at the beginning and end of the project, at all connecting approaches and at areas directed by the Engineer. Payment shall be made under Item No. 401.0501 - Asphalt Concrete Pavement Mix No. I.
- In general, the total A.C. pavement overlay thickness shall be 1 1/2 inches unless otherwise directed by the Engineer.
- The contractor's attention is directed to Section 104.04 and Section 645 of the Specifications concerning maintenance of traffic and traffic control. Payment for police officers and additional traffic control devices required by other agencies shall be considered incidental to various items of work. All other items not shown on the contractor's traffic control plans but required by the Engineer will be measured and paid for on a force account basis.
- Before resurfacing, the contractor shall remove and dispose of existing raised pavement markers. This work shall be considered incidental to asphalt concrete pavement item.
- The contractor shall reference all existing pavement markings prior to resurfacing. Final placement of the new pavement markings shall be approved by the Engineer. See Standard Plan TE-30 for more details.
- The contractor shall immediately fill, compact and fine grade the shoulders upon completion of the resurfacing work. Aggregates for dressing of shoulders shall conform to the requirements of Section 703.23 of the Standard Specifications. Limits of shoulder grading shall be staked out by the contractor and approved by the Engineer prior to grading operation. Payment for this work shall be made under item No.203-0230- fill, compact and fine grade shoulders.
- The contractor shall notify the State, in writing, two (2) weeks prior to starting paving operation.



REGULATORY & WARNING SIGN W/ POST SUMMARY (10 sq. ft. or less)

STATION	REGULATORY	QTY.
6+30 Rt.	R4-1	1
31+40 Lt.	R4-1	1
TOTAL		2

PAYEMENT STRIPING & MARKER SUMMARY

STATION TO STATION	CONDITION	4" WHITE (L.F.)	4" YELLOW (L.F.)	4" DOUBLE YELLOW (L.F.)	TYPE "DL" (EA.)	TYPE "HL" (EA.)	TYPE "J" (EA.)
0+25 - 0+75	No Passing			50	2		
0+0015 - 2+00	One Way Pass'g, Rt		200	125	6	3	24
2+00 - 6+30	Passing Both Ways				12	10	48
6+30 - 11+30	One Way Pass'g, Lt.		420	500	14	9	25
10+50 - 11+30	No Passing			2200	77	110	56
10+50 - 26+40	No Passing			1510	77	110	56
26+40 - 31+40	One Way Pass'g, Rt		500		14	14	56
32+50 - 34+00	No Passing Both Ways				7		28
25 - 32+50	Edge Striping	6,450					
0+00 - 34+00	Edge Striping	6,800					
TOTAL		6,450	545	2,250	134	14	88
		6,800	1,200	1510	130	34	212

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYP. SECTION, GENERAL NOTES, PAY'T. MARKING & SIGN SUMMARY	
MANELE ROAD RESURFACING, Kaumalapau Hwy. Toward Manele Bay	
PROJ. NO. 440B-01-88M	
SCALE: AS SHOWN	DATE: JUNE, 1987
SHEET No. 1 OF 1 SHEETS	