

SURVEY PLOTTED BY _____

DATE _____

ORIGINAL PLAN

NOTED BY _____

DESIGNED BY _____

QUANTITIES BY _____

CHECKED BY _____

No. _____

DRAWN BY _____

DESIGNED BY _____

DATE _____

SHOULDER WIDENING SCHEDULE (FULL PAV'T SECTION) O/S LT. (NORTH BOUND LANE)			
STA. BEGIN	STA. END	LENGTH (FT)	APPROX. AREA (SF) ₇
357+00.0	379+50.0	2,253.2*	11,266.2
485+50.0	501+80.0	1,630.0	8,150.0
516+83.0	542+80.0	2,597.0	12,985.0
554+20.0	565+00.0	1,080.0	5,400.0
604+00.0	19+39.0	2,868.6*	14,342.9
13+90.0	674+23.0	3,400.3*	17,001.7
24+62.0	15+00.0	962.0	4,810
13+00.0	5+10.0	790.0	3,950.0
O/S RT. (SOUTH BOUND LANE)			
STA. BEGIN	STA. END	LENGTH (FT)	APPROX. AREA (SF)
359+53.0	382+71.0	2,318.0	11,590.0
434+50.0	436+71.3	221.3	1,106.4
438+76.3	441+85.0	308.8	1,543.8
443.61.1	456+65.0	1,303.9	6,519.35
474+18.3	483+06.6	888.3	4,441.6
496+00.0	500+25.0	425.0 ₆	2,125.0
515+10.0	522+26.3	716.3	3,581.4
529+55.0	566+07.4	3652.4*	18,825.7
570+60.0	626+75.0	5,615.0	28,075.0
657+30.0	690+35.0	3,305.0	16,525.0
Full Depth Shoulder Pavement (Area)			172,239.0

FULL DEPTH ROADWAY RECONSTRUCTION SCHEDULE			
STA. BEGIN	STA. END	LANE	APPROX. AREA (SF)
496+00.0	500+25.0	Southbound	4,250.0
497+75.0	500+25.0	Northbound	2,500.0
Full Depth Pavement Reconstruction (Area)			6,750.0 SF

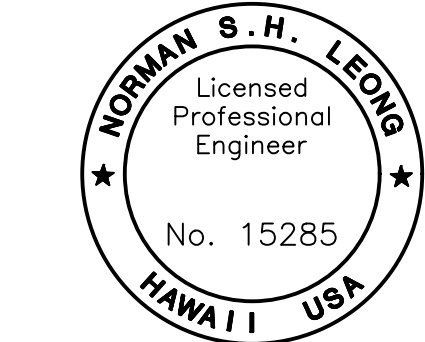
MILLED RUMBLE STRIP, SHOULDER SCHEDULE O/S LT. (NORTH BOUND LANE)		
STA. BEGIN	STA. END	LENGTH (FT)
357+00.0	379+50.0	2,253.2*
485+50.0	501+80.0	1,630.0
509+63.0	542+80.0	3,317.0
554+20.0	565+00.0	1,080.0
604+00.0	19+39.0	2,868.6*
13+90.0	674+23.0	3,400.3*
24+62.0	5+10.0	1,952.0
751+50.0	766+00.0	1,450.0
O/S RT. (SOUTH BOUND LANE)		
STA. BEGIN	STA. END	LENGTH (FT)
359+53.0	382+71.0	2,318.0
434+50.0	456+65.0	2,215.0
474+18.3	483+06.6	888.3
512+05.0	566+07.4	5402.4*
570+60.0	626+75.0	5,615.0
657+30.0	690+35.0	3,305.0
12+67.0	0+00.8	1,266.3
753+50.0	766+00.0	1,250.0
Pay Item No. 615.0100 - Milled Rumble Strip, Shoulder		40,230.0

SINGLE WHITE 6-INCH PAVEMENT STRIPING SCHEDULE O/S RT. (SOUTH BOUND LANE)			
STA. BEGIN	STA. END	LENGTH (FT)	TYPE C MARKER
20+25.0	18+00.0	225.0	6
566+07.0	569+64.5	357.4	9
570+19.2	570+60.0	40.8	2
626+75.0	16+71.0	861.6*	22
O/S LT. (NORTH BOUND LANE)			
STA. BEGIN	STA. END	LENGTH (FT)	TYPE C MARKER
565+00.0	579+50.0	1,454.0	37
19+39.0	16+70.0	269.0	7
Milled Rumble Strip Length ₄		37,310.0	951
Pay Item No. 629.1020 - Single White 6-Inch Pavement Striping (Thermoplastic Extrusion)		43,860.0	
Pay Item No. 629.4020 - Type C Pavement Markers			1,107.0

GUARDRAIL INSTALLATION SCHEDULE						
STA. BEGIN	STA. END	TOTAL LENGTH (FT)	6' POST (LF)	8' POST (LF)	LEAD	TRAIL
498+30.4	499+43.2	112.5	12.5	100.0	Softstop	Softstop
560+78.6	564+64.8	387.5	387.5	0.0	Softstop	Softstop

MILLED CENTERLINE RUMBLE STRIP SCHEDULE				
STA. BEGIN	STA. END	LENGTH (FT)	TYPE D MARKER	TYPE H MARKER
434+50.0	440+35.0	585	30	
441+65.0	456+65.0	1,500	75	
470+00.0	483+05.0	1,305	66	
485+10.0	569+17.0	8,407.1*	421	
570+60.0	16+71.0	6,476.6*	324	
15+26.0	26+08.0	6,433.6*	322	
24+62.0	0+00.8	2,461.3	124	
751+50.0	764+53.0	1,303.0	66	
764+53.0	766+00.0	147 ₂	4	4
Pay Item No. 615.0200 - Milled Rumble Strip, Centerline		28,620 LF		
Pay Item No. 629.1020 - Double Yellow 4-Inch Pavement Striping (Thermoplastic Spray)		28,620 LF		
Pay Item No. 629.4030 - Type D Pavement Markers			1,432 EA	
Pay Item No. 629.4040 - Type H Pavement Markers				4 EA

RM-5 REFLECTOR MARKER SCHEDULE					
GUARDRAIL NO.	STA. BEGIN	STA. END	O/S	LENGTH	RM-5 QTY.
1e ₃	341+49.7	342+78.1	R†	128.4	0 ₃
2e	343+19.6	347+56.5	R†	436.9	0
3e	349+51.0	349+94.5	R†	43.5	0
4e	349+66.4	349+87.3	L†	20.9	0
5e	383+00.0	385+00.0	R†	200	0
6e	566+82.6	569+08.4	R†	225.8	10
7e	629+20.5	14+55.3	R†	831.8*	34
8e	18+01.3	16+40.7	L†	160.6	7
9e	15+14.6	14+45.1	L†	69.5	3
10e	5+11.0	3+36.2	R†	174.8	7
11e	697+81.8	20+78.3	R†	786.9*	32
12e	19+91.1	13+68.6	R†	622.5	25
13e	14+32.9	13+61.2	L†	71.7	3
Pay Item No. 632.9000 - Reflector Marker RM-5 Mounted on Guardrail					121 EA



This work was prepared by me or under my supervision and construction of this project will be under my observation.
Norman S. H. Leong
Expiration Date of License 4/24

FED. ROAD DIST. NO.

STATE

FED. AID PROJ. NO.

FISCAL YEAR

SHEET NO.

TOTAL SHEETS

HAWAII

HAW.

HS1P-011-1(045)

2023

81

114

Notes:

- * indicates an equation station falls within the station limits shown in the schedule. The length shown takes into account the computational difference from the equation stations. Subtracting station begin from station end will not yield same lengths.
- Sta. 764+53 to Sta. 766+00 (147 LF) shall be striped for "Passing Permitted" for traffic in the southbound direction. Measurement and payment of "Passing Permitted" striping shall be identical to Pay Item No. 629.1020 - Double Yellow 4-Inch Pavement Striping (Thermoplastic Extrusion).
- Guardrails numbered with an "e" suffix indicate an existing guardrail. Guardrails with previously installed RM-5s are indicated with a zero (0) in the quantity column. Installation of RM-5s on new guardrails shall be incidental to the various guardrail pay items.
- New 6-inch white edge stripe shall be applied where all milled shoulder rumble strips are shown on the plans.
- All total quantities associated with Pay Items have been rounded up and may not add up exactly from the individual quantities shown.
- No shoulder rumble strips shall be installed through this roadway shoulder section.
- Approximate area provided is exclusive of pavement required for 1'-0" pavement connection detail as shown on sheet 9

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SCHEDULES

MAMALAHOA HIGHWAY
SAFETY IMPROVEMENTS
Vicinity of Haleili Street and Bruner Road
Federal-Aid Project No. HS1P-011-1(045)
Scale: NTS Date: September 2023

SHEET No. 1 OF 1 SHEETS