

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-2(36)	1995	34	41

[illegible]

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
	DRAWN BY <u>X</u>
	TRACED BY _____
NOTE BOOK	DESIGNED BY <u>X</u>
<i>Wyllowen</i>	QUANTITIES BY _____
<i>Wyllowen</i>	CHECKED BY _____
<i>Wyllowen</i>	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL SCHEDULE

HAWAII BELT ROAD RESURFACING
AHOLE BRIDGE TO KOLEKOLE BRIDGE
F.A. PROJECT NO. STP-019-2(36)

Scale: None Date: April, 1995

SHEET No. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-2(36)	1995	35	41

GUARDRAIL SCHEDULE (Continued)

FROM	TO	LEFT	RIGHT	LENGTH OF NEW GR. (FT.)	GUARDRAIL END TREATMENT				BRIDGE NAME	GUARDRAILS TO BE REMOVED	REMARKS
					LEADING	RADIUS	TRAILING	RADIUS			
SDR 3(14)											
0+32	0+89.5	●		62.5	TO EXIST.	— —	G+	20'	— —	37.5	REPLACE BCT WITH TYPE G+
0+39	3+26		●	312.5	G+	25'	G+	25'	— —	0.0	NEW INSTALLATION
2+43.5	3+56	●		112.5	MELT	— —	TO EXIST.	— —	— —	37.5	REPLACE BCT WITH MELT
8+77	9+14.5		●	12.5	MELT	— —	TO EXIST.	— —	— —	37.5	REPLACE BCT WITH MELT
8+91	9+41	●		62.5	TO EXIST.	— —	G+	25'	— —	25.0	REPLACE BCT WITH TYPE G+
9+91	10+41	●		62.5	G+	25'	TO EXIST.		— —	25.0	REPLACE BCT WITH TYPE G+
15+17	15+54.5		●	12.5	MELT	— —	TO EXIST.	— —	— —	37.5	REPLACE BCT WITH MELT
18+65	18+90		●	25.0	TO EXIST.	— —	TO EXIST.	— —	— —	— —	CONNECT ENDS OF GUARDRAIL
19+17	19+67	●		0.0	Type I	— —	TO EXIST.	— —	WAIKAUMALO	50.0	REPLACE TYPE I BRIDGE CONNECTION
19+17	19+67		●	0.0	TO EXIST.	— —	Type I	— —	WAIKAUMALO	50.0	REPLACE TYPE I BRIDGE CONNECTION
22+68	23+18	●		0.0	TO EXIST.	— —	Type I	— —	WAIKAUMALO	50.0	REPLACE TYPE I BRIDGE CONNECTION
22+68	23+18		●	0.0	Type I	— —	TO EXIST.	— —	WAIKAUMALO	50.0	REPLACE TYPE I BRIDGE CONNECTION
26+30.5	26+68	●		12.5	MELT	— —	TO EXIST.	— —	— —	37.5	REPLACE BCT WITH MELT
33+41	33+78.5	●		12.5	TO EXIST.	— —	MELT	— —	— —	37.5	REPLACE BCT WITH MELT
35+40.5	35+78	●		12.5	MELT	— —	TO EXIST.	— —	— —	37.5	REPLACE BCT WITH MELT
SDR 3(13)											
46+65.5	48+28	●		112.5	Type I	— —	F	— —	NANUE	162.5	REPLACE TYPE I BRIDGE CONNECTION & TYPE F
47+65.5	48+28		●	12.5	C	— —	Type I	— —	NANUE	62.5	REPLACE TYPE C & TYPE I BRIDGE CONNECTION
0+04	1+54	●		75.0	MELT	— —	Type I	— —	NANUE	150.0	REPLACE EXISTING WITH MELT & TYPE I BRIDGE CONNECTION
0+04	0+91.5		●	37.5	Type I	— —	F	— —	NANUE	87.5	REPLACE TYPE I BRIDGE CONNECTION & TYPE F
4+31	4+68.5	●		12.5	TO EXIST.	— —	MELT	— —	— —	37.5	REPLACE BCT WITH MELT
8+41.5	8+66.5	●		25.0	C	— —	TO EXIST.	— —	— —	12.5	REPLACE TYPE C
20+33	21+08	●		— —	C	— —	TO EXIST.	— —	OPEA	— —	RESET 75 L.F. OF GUARDRAIL & TYPE C END
24+89	25+51.5	●		37.5	TO EXIST.	— —	MELT	— —	— —	37.5	EXTEND GUARDRAIL & REPLACE BCT WITH MELT
26+30	27+55		●	137.5	G+	25'	MELT	— —	— —	100.0	REPLACE EXISTING WITH TYPE G+ AND MELT
26+51.5	27+14	●		37.5	MELT	— —	TO EXIST.	— —	— —	37.5	EXTEND GUARDRAIL & REPLACE BCT WITH MELT
28+30	28+67.5	●		12.5	TO EXIST.	— —	MELT	— —	— —	37.5	REPLACE BCT WITH MELT
32+80	33+05	●		— —	— —	— —	— —	— —	— —	25.0	REMOVE TYPE C
32+80	38+17.5	●		537.5	C	— —	TO EXIST.	— —	— —	350.0	CONNECT GUARDRAIL SEGMENTS & INSTALL TYPE C

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE	X
NOTED	DRAWN BY		
NOTED	TRACED BY		
NOTED	QUANTITIES BY		
NOTED	CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL SCHEDULE

HAWAII BELT ROAD RESURFACING
AHOLE BRIDGE TO KOLEKOLE BRIDGE
F.A. PROJECT NO. STP-019-2(36)

Scale: NoneDate: April, 1995

SHEET No. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-019-2(36)	1995	36	41

GUARDRAIL SCHEDULE (Continued)												
FROM	TO	LEFT	RIGHT	LENGTH OF NEW GR. (FT.)	GUARDRAIL END TREATMENT				BRIDGE NAME	GUARDRAILS TO BE REMOVED	REMARKS	
					LEADING	RADIUS	TRAILING	RADIUS				
SDR 3(13)												
34+54	36+79		●	225.0	C	---	F	---	---	125.0	REPLACE/MODIFY EXISTING GUARDRAIL	
39+15	43+15	●		400.0	C	---	F	---	---	375	REPLACE/MODIFY EXISTING GUARDRAIL	
45+43	53+05.5	●		737.5	MELT	---	F	---	---	562.5	REPLACE/MODIFY EXISTING GUARDRAIL	
55+06	65+81	●		1,100.0	G+	25'	G+	25'	---	750.0	REPLACE/MODIFY EXISTING GUARDRAIL	
58+38	62+25.5		●	362.5	MELT	---	G	---	---	287.5	REPLACE/MODIFY EXISTING GUARDRAIL	
66+05	82+45	●		1,600.0	G+	25'	G+	15'	---	1,175.0	REPLACE/MODIFY EXISTING GUARDRAIL	
68+64.5	70+52		●	162.5	MELT	---	G	---	---	150.0	REPLACE EXISTING GUARDRAIL & INSTALL MELT	
77+70	77+95		●	25.0	G	---	TO EXIST.	---	---	0.0	EXTEND GUARDRAIL	
82+62.5	90+25	●		750.0	MELT	---	G+	25'	---	650.0	REPLACE/MODIFY EXISTING GUARDRAIL	
85+60	88+75		●	325.0	C	---	G+	15'	---	162.5	REPLACE/CONSOLIDATE EXISTING GUARDRAIL	
116+49	116+74		●	25.0	C	---	TO EXIST.	---	---	0.0	REPLACE TYPE G END TREATMENT WITH TYPE C	
118+32.5	118+57.5	●		25.0	C	---	TO EXIST.	---	---	12.5	REPLACE TYPE G END TREATMENT WITH TYPE C	
118+52.5	119+02.5		●	50.0	TO EXIST.	---	F	---	---	37.5	REPLACE TYPE G END TREATMENT WITH TYPE F	
SDR 3(12)												
23+85	26+85		●	250.0	MELT	---	MELT	---	---	50.0	REPLACE TYPE G END TREATMENTS WITH MELT	
28+54	28+91.5		●	12.5	MELT	---	TO EXIST.	---	---	37.5	REPLACE BCT WITH MELT	
33+73.5	34+11		●	12.5	TO EXIST.	---	MELT	---	---	37.5	REPLACE BCT WITH MELT	
39+04.5	39+79.5	●		87.5	G+	25'	TO EXIST.	---	---	37.5	REPLACE BCT WITH TYPE G+	
44+27.5	46+02.5	●		175.0	C	---	F	---	---	75.0	REPLACE/MODIFY EXISTING GUARDRAIL	
44+53	45+90.5		●	137.5	C	---	F	---	---	62.5	REPLACE/MODIFY EXISTING GUARDRAIL	
64+32.5	64+70	●		12.5	TO EXIST.	---	MELT	---	KOLEKOLE	37.5	REPLACE BCT WITH MELT	
TOTAL				9,575.0					TOTAL	7,287.5		

- NOTES: 1. The Engineer shall modify guardrail designs to fit the existing field conditions.
2. Actual radius and locations shall be determined in the field by the Contractor and approved by the Engineer prior to the ordering of curved guardrail sections. Curved guardrail sections shall be ordered in a timely manner to complete the Project within the contract completion date.
3. Length for new guardrail installation excludes 25 l.f. for MELT End Treatment and 50 l.f. for Bridge End Connection item pay limits.
4. G+ Modified Type G Flare. Contractor shall verify radius in the field.

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F.A. PROJECT NO. STP-019-2(36)

Scale: NoneDate: April, 1995

SHEET No. 3 OF 3 SHEETS