

MISCELLANEOUS SUMMARIES (SHEET 1 OF 3)

REVISED 07/14/09
AMENDMENT A002

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI HP & TI 200(2)	C22	C24

MISCELLANEOUS SUMMARIES									
Item Number			15705-0100	15705-1400	20101-0000	20210-0000	21101-1000	25101-3000	63503-1000
Station			Soil Erosion Control, Silt Fence (linear feet)	Soil Erosion Control, Sediment Log (1 of 2) (linear feet)	Clearing and Grubbing* (acre)	Special Clearing and Grubbing (A'a Lava Compaction)* (acre)	Roadway Obliteration, Method 1 (square yard)	Placed Riprap, Class 3 (1 of 2) (cubic yard)	Temporary Traffic Control, Plastic Fence (for kipuka) (linear feet)
1160+00	to	1180+00		80	4.78	4.78	1392.74	123	530
1180+00	to	1200+00		40	5.50	1.32	3760.59	357	655
1200+00	to	1220+00		60	4.62		287.70	862	1629
1220+00	to	1240+00		100	4.33		513.82	74	1411
1240+00	to	1260+00		100	4.66		4462.27	172	
1260+00	to	1280+00		40	4.65		1109.62	0	
1280+00	to	1300+00		40	3.68		442.90	50	
1300+00	to	1320+00		40	4.93		212.10	862	612
1320+00	to	1327+00		40	1.51		387.54	0	
1327+00	to	1336+00	500	0	1.23		861.79	0	
SCHEDULE A TOTAL			500	540	40	6	13431	2500	4837
1327+00	to	1347+00		40	4.90		388.84	839	
1347+00	to	1367+00		100	4.59		2159.94	469	
1367+00	to	1387+00		60	5.33		1445.98	209	
1387+00	to	1407+00		140	4.75		4309.76	222	1612
1407+00	to	1427+00		20	4.87		1229.29	210	1915
1427+00	to	1447+00		60	4.57		1316.62	383	590
1447+00	to	1450+00		0	0.54		65.06	0	
1450+00	to	1460+80	500	0	2.01		1800.81	0	
SCHEDULE B TOTAL			1000	960	70	6	25286	4832	8954
1450+00	to	1470+00		20	5.67		1475.93	431	
1470+00	to	1490+00		100	5.49		5233.06	173	
1490+00	to	1510+00		20	6.45		2572.79	123	1924
1510+00	to	1530+00		40	5.18		36.52	1,000	304
1530+00	to	1545+00		40	3.07		688.00	0	
1545+00	to	1554+00	500	60	1.39		51.62	0	
SCHEDULE C TOTAL			1500	1240	95	6	33543	6559	11182

* Clearing and grubbing area does not include the existing paved roadway footprint plus 5 feet on both sides.

The following quantities are approximate unless noted as a contract quantity. Payment will be made for the actual quantities of work performed and accepted or for materials furnished according to the contract.

TABULATION OF QUANTITIES



The work was prepared by me or under my supervision and construction of this project will be under my supervision.
Expiration Date of License: 03/30/10

MISCELLANEOUS SUMMARIES (SHEET 1 OF 3)

ITEM NUMBER		15705-0100	15705-1400	20101-0000	20210-0000	21101-1000	25101-3000	63503-1000
STATION		Soil Erosion Control, Silt Fence (linear feet)	Soil Erosion Control, Sediment Log (1 of 2) (linear feet)	Clearing and Grubbing (acre)	Special Clearing and Grubbing (A'a Lava Compaction)* (acre)	Roadway Obliteration, Method 1 (square yard)	Placed Riprap, Class 3 (1 of 2) (cubic yard)	Temporary Traffic Control, Plastic Fence (for kipuka) (linear feet)
1160+00	1180+00			4.78	4.5	1392.74	220	
1180+00	1200+00	20	100	5.5		3760.59	422	
1200+00	1220+00		33	4.62		287.7	1226	135
1220+00	1240+00	120	19	4.33		513.82		673
1240+00	1260+00	8	100	4.66		4462.27	343	376
1260+00	1280+00			4.65		1109.62		
1280+00	1300+00		110	3.68		442.9		
1300+00	1320+00		88	4.93		212.1	1051	1219
1320+00	1327+00		92	1.51		387.54		
1327+00	1336+00		44	1.23		0		
1336+00	1347+00	78	200	4.9		194.42	1229	
1347+00	1367+00		77	4.59		2159.94	667	
1367+00	1387+00		33	5.33		1445.98	1062	
1387+00	1407+00	100	66	4.75		4309.76	457	
1407+00	1427+00	100	44	4.87		1229.29	799	
1427+00	1447+00	317	322	4.57		1316.62		
1447+00	1450+00	160	66	0.54		65.06	295	
1450+00	1460+80	60	121	2.01		737.96		
1460+80	1470+00	20	11	5.67		737.97	667	
1470+00	1490+00		187	5.49		3769.07	241	
1490+00	1510+00	50	118	6.45		2572.79	450	
1510+00	1530+00		24	5.18		36.52	1005	
1530+00	1545+00	50	89	3.07		688		
1545+00	1554+00	20	165	1.39		51.62		
SCHEDULE C TOTALS		1103	2109	98.7	4.5	31884.28	10128	2403

MISCELLANEOUS SUMMARIES (SHEET 2 OF 3)

TEMPORARY TRAFFIC CONTROL SUMMARY

Item Number	30110-0000	63502-0500	63502-0600	63502-1050	63502-1300	63502-1500	63502-1600	63502-1700	63503-0400	63503-0700	63506-0400	63506-0500	63507-0600	63510-0100
Station	Aggregate Surface Course (ton)	Barricade, Type 2 (each)	Barricade, Type 3 (each)	Tubular Marker (each)	Drum (each)	Warning Light, Type A* (each)	Warning Light, Type B** (each)	Warning Light, Type C** (each)	Water Filled Barrier (linear feet)	Pavement Markings (linear feet)	Police Officer (hour)	Flagger (hour)	Pilot Car (day)	Traffic and Safety Supervisor (week)
Schedule A														
1160+00-1336+00	3590	10	10	450	40	30	4	100	4500	33400	450	4500	125	72
Schedule B														
1328+00-1460+80	6335	10	20	760	40	30	4	100	7600	58000	760	7700	215	88
Schedule C														
1450+00-1554+00	11100	20	30	1000	40	30	4	100	10000	77000	1000	10080	280	112
TOTAL	21025	20	30	1000	40	30	4	100	10000	77000	1000	10080	280	112

Location of quantities are for bid purposes only and are used for estimating. It may be necessary to shift quantities to other locations as the project requires.

*To be mounted on the first two drums, barricades, or temporary concrete barriers in the series.

**To be mounted on the drums, barricades, or temporary concrete barriers every 20 feet.

SIGN REMOVAL SUMMARY

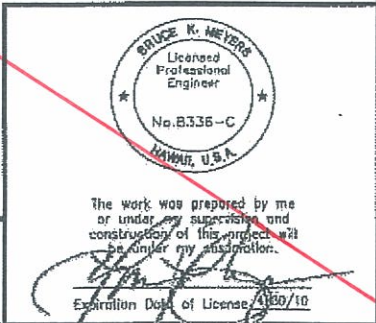
Item Number	20301-2400		20301-2400
Station	Removal of Signs (each)	Station	Removal of Signs (each)
1169+00	2	1415+00	1
1179+00	1	1434+00	1
1182+50	1	1436+00	1
1211+50	2	1437+50 to 1439+50	3
1227+00	1	1440+00 to 1441+00	2
1234+00	1	1451+00	2
1256+00	1	SCHEDULE B TOTAL	30
1274+00	1		
1283+00	1	1465+50	2
1299+50	1	1472+00 to 1475+50	4
1304+00	1	1497+00	1
1311+50	1	1505+00	1
SCHEDULE A TOTAL	14	1519+00	1
		1520+00	1
1365+00	1	SCHEDULE C TOTAL	40
1402+00 to 1404+00	5		

DRAINAGE SUMMARY

Item No.	15705-1400	25101-3000	25110-3000	60201-0800	62012-1000
Station	Soil Erosion Control, Sediment Log (2 of 2) (linear feet)	Placed Riprap, Class 3 (2 of 2) (cubic yard)	Grouted Riprap, Class 3 (cubic yard)	24-Inch Pipe Culvert (linear feet)	Stone Masonry Wall (cubic yard)
1167+82 L	80	14.62	9	24	11
1183+20 R	80	14.62	9	27	11
1243+30 R	80	14.62	9	24	11
1264+80 R	80	14.62	9	31	11
1303+80 R	80	14.62	9	30	11
1309+80 L	80	14.62	9	33	11
1309+80 R	80	14.62	9	36	11
SCH A TOTAL	560	102	63	205	77
1345+30 L	80	14.62	9	26	11
1365+20 R	80	14.62	9	27	11
1399+80 R	80	14.62	9	27	11
1444+15 L	80	14.62	9	33	11
SCH B TOTAL	880	161	99	318	121
1471+10 L	80	14.62	9	27	11
1494+30 R	80	14.62	9	95	11
SCH C TOTAL	1040	190	117	440	143

The following quantities are approximate unless noted as a contract quantity. Payment will be made for the actual quantities of work performed and accepted or for materials furnished according to the contract.

TABULATION OF QUANTITIES



MISCELLANEOUS SUMMARIES (SHEET 2 OF 3)

TEMPORARY TRAFFIC CONTROL SUMMARY

Item No.	63502-0600	63502-1050	63502-1051	63502-1300	63502-1301	63502-1302	63502-1303	63502-1304	63502-1305	63502-1306
Station	Barricade, Type 3 (each)	Tubular Marker (each)	Drum (each)	Warning Light, Type A* (each)	Water Filled Barrier (linear feet)	Pavement Markings (linear feet)	Police Officer (hour)	Flagger (hour)	Pilot Car (day)	Traffic & Safety Supervisor (Week)
1160+00 to 1554+00	4	2052	95	38	2138.5	78303	371.5	6262	176.4	106

SIGN REMOVAL SUMMARY

Westbound	Location
Winding Road Arrow	1520+00
Mile 12	1519+25
Winding Road Arrow	1495+50
Mile 13	1466+25
mph plate	1450+75
Speed limit 35	1435+00
Mile 14	1415+00
Reverse curve right arrow	1376+00
Speed limit 35	1370+00
Mile 15	1355+00
Hilo Forest Reserve with info plate	1315+50
Mile 16	1311+75
with 30 mph plate	1283+00
Mile 17	1266+00
Winding Road Arrow	1234+00
Mile 15	1211+00
with 25 mph plate	1190+50
Shoulder Rumble Strip	1150+50

Eastbound	Location
Speed Limit 45	1159+00
Begin 35 Mile Speed	1159+00
Winding Road Arrow	1179+50
Kaumana Trail sign	1183+00
Winding Road Arrow	1211+50
90 degree reverse curve left arrow	1227+50
Left curve arrow	1245+00
90 degree reverse curve left arrow with 25 mph plate	1271+00
Reverse curve left arrow	1274+25
4 single sided curve chevrons	1275+25
Winding Road Arrow	1299+25
Tree Planting Road with info plate	1300+50
Reverse curve right arrow	1365+00
Speed limit 35	1399+00
Left curve arrow	1400+50
4 single sided curve chevrons	1401+50
Speed Limit 35	1435+00
Left curve arrow	1436+50
5 double sided curve chevrons	1437+00
Winding Road Arrow	1442+00
Speed limit 35	1451+00
Winding Road Arrow	1465+00
4 single sided curve chevrons	1472+00
Winding Road Arrow	1505+00

DRAINAGE SUMMARY

Item No.	25110-3000	60201-0800	62012-1000
Station	Grouted Riprap, Class 3 (cubic yard)	24-Inch Pipe Culvert (linear feet)	Stone Masonry Wall (cubic yard)
1167+78 LT	6.16	24	11.97
1243+28 RT	6.56	28	11.97
1303+78 RT	6.56	30	11.97
1309+78 LT	6.56	33	11.97
1309+76 RT	6.56	32	11.97
1365+00 RT	6.56	28	11.97
1399+25 RT	6.56	28	11.97
1471+08 LT	6.56	28	11.97
1492+70 RT	6.56	84.8	11.97
SCH C TOTAL	58.64	315.8	107.73

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MISCELLANEOUS SUMMARIES (SHEET 3 OF 3)

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI HP & TI 200(2)	C24	C24

CONSTRUCTION SIGN SUMMARY					
Item Number					63504-1000
MUTCD ref.	Message	Panel Dimensions (in x in)	Area (square feet)	Quantity	Temporary Traffic Control, Construction Sign (square feet)
G20-1	Road Work Next 8 Miles	36 x 18	4.50	2	9.00
G20-2	End Road Work	36 x 18	4.50	2	9.00
G20-4	Pilot Car Follow Me	36 x 18	4.50	2	9.00
R4-1	Do Not Pass	24 x 30	5.00	3	15.00
R4-2	Pass With Care	24 x 30	5.00	4	20.00
R11-2	Road Closed	48 x 30	10.00	4	40.00
W1-3	Reverse Curve	48 x 24	8.00	4	32.00
W1-6	Chevron	30 x 30	6.25	8	50.00
W3-4	Be Prepared to Stop	48 x 48	16.00	2	32.00
W5-1	Road Narrows	36 x 36	9.00	2	18.00
W8-1	Bump	30 x 30	6.25	4	25.00
W8-3	Pavement Ends	30 x 30	6.25	4	25.00
W8-6	Trucks Crossing	30 x 30	6.25	4	25.00
W8-7	Loose Gravel	30 x 30	6.25	4	25.00
W8-12	No Center Stripe	48 x 48	16.00	4	64.00
W13-1	45/35 MPH	18 x 18	2.25	10	22.50
W14-3	No Passing Zone	pennant	6.00	1	6.00
W16-2	XX FT	24 x 18	3.00	6	18.00
W20-1	Road Work Ahead	36 x 36	9.00	2	18.00
W20-1	Road Work 1000 FT	36 x 36	9.00	2	18.00
W20-1	Road Work 500 FT	36 x 36	9.00	2	18.00
W20-4	One Lane Road Ahead	36 x 36	9.00	2	18.00
W20-7a	Flagger Symbol	36 x 36	9.00	2	18.00
W21-1a	Worker Symbol	36 x 36	9.00	1	9.00
W21-2	Fresh Oil	30 x 30	6.25	2	12.50
W21-3	Road Machinery Ahead	36 x 36	9.00	2	18.00
W21-5	Shoulder Work	30 x 30	6.25	1	6.25
W22-1	Blasting Zone Ahead	48 x 48	16.00	2	32.00
W22-2	Turn off Radio and Cell Phone	42 x 36	10.50	2	21.00
W22-3	End Blasting Zone	42 x 36	10.50	2	21.00
Spec.	Portable Changeable Message Signs (2)	-	-	-	-
Spec.	PROJECT SIGN	96 x 48	32.00	2	64.00
TOTAL				94	719

ASSUMPTIONS, CALCULATIONS, LOCATIONS

Need 2 for detail C635-03 and 1 for detail C635-11

Assumes two locations in a Segment will use detail C635-04

Assumes two locations in a Segment will use detail C635-04

Assumes two locations in a Segment will use detail C635-04

Assumes two locations in a Segment will use detail C635-05

Assumes two "Pavement Ends" sections in a Segment

Assumes two "Pavement Ends" sections in a Segment

Assumes two "Pavement Ends" sections in a Segment

Need 4 for the assumed two locations using detail C635-04, 2 for C635-06, 2 for C635-10, and 2 for C635-12

Need 1 for detail C635-11 or C635-12

Need 4 for detail C635-04 or C635-05, 1 for C635-10, and 1 for C635-12

Need 2 for detail C635-06

Need 1 for detail C635-10

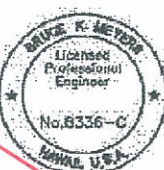
Need 1 for detail C635-10

Item Number 63507-0800 (DAY) to be installed at MP 19 and MP 11

To be installed at MP 7 and Saddle Road/SR 190 junction

TABULATION OF QUANTITIES

The following quantities are approximate unless noted as a contract quantity. Payment will be made for the actual quantities of work performed and accepted or for materials furnished according to the contract.



The work was prepared by me or under my supervision and consultation of the project will be under my observation.

Expiration Date of License: 1/30/19

MISCELLANEOUS SUMMARIES (SHEET 3 OF 3)

CONSTRUCTION SIGN SUMMARY

STA	Sign	W or E bound	#	Dimension	Area
xx	Project Sign	E	1	54x120	45
1150+00	Roadwork next 8 miles	E	1	35x18	4.5
1153+00	Speed limit ahead 40 mph	E	1	36x36	9
1156+00	Speed limit 40 mph	E	2	36x48	24
1157+00	Roadwok 1000 ft	E	1	36x36	9
1158+00	Roadwork 500 ft	E	1	36x36	9
1158+00	End work zone	W	1	48x24	8
1160+00	Speed limit 25	E	2	36x48	24
1171+00	No Center Stripe	W	1	48x48	16
1172+00	Loose Gravel	W	1	30x30	6.25
1173+00	Pavement Ends	W	1	30x30	6.25
1175+00	Do Not Pass	W	1	24x30	5
1180+00	25 mph	W	1	36x48	12
1182+00	Pavement Ends	E	1	30x30	6.25
1184+00	Loose Gravel	E	1	30x30	6.25
1186+00	No Center Stripe	E	1	48x48	16
removed	Pavement Ends	E	1	48x48	16
removed	Loose Gravel	E	1	30x30	6.25
removed	No Center Stripe	E	1	48x48	16
1238+00	No Center Stripe	W	1	48x48	16
1240+00	Loose Gravel	W	1	30x30	6.25
1242+00	Pavement Ends	W	1	48x48	16
1242	25 mph	W	1	36x48	12
1252+50	Pavement Ends	E	1	48x48	16
1254+50	Loose Gravel	E	1	48x48	16
1256+50	No Center Stripe	E	1	48x48	16
1268+00	No Center Stripe	W	1	30x30	6.25
1269+00	Pavement Ends	E	1	48x48	16
1270+00	Loose Gravel	W	1	48x48	16
1270+50	Loose Gravel	E	1	48x48	16
1272+00	Pavement Ends	W	1	30x30	6.25
1272+50	No Center Stripe	E	1	48x48	16
1282+00	Pavement Ends	W	1	48x48	16
1284+00	Loose Gravel	W	1	48x48	16
1288+00	No Center Stripe	W	1	48x48	16
1291+50	Pavement Ends	E	1	30x30	6.25
1293+50	Loose Gravel	E	1	30x30	6.25
1295+50	No Center Stripe	E	1	48x48	16
1309+00	Pavement Ends	W	1	48x48	16
1311+00	Loose Gravel	W	1	48x48	16
1313+00	No Center Stripe	W	1	48x48	16
1340+00	Speed limit 25	W	2	36x48	24
1585+00	End work zone	E	1	48x24	8
1585+00	Road work 500 ft	W	1	36x36	9
1590+00	Road work 1000 ft	W	1	36x36	9
1595+00	Road work next 8 miles	W	1	36x18	4.5
1600+00	Speed limit 35 mph	W	2	24x30	10
xx	Project Sign	W	1	54x120	45
					653.5

Sign	#	Dimension	Area
Be Prepared to Stop	3	48x48	48
Flagger Symbol	3	48x48	48
Shoulder Work	2	30x30	12.5
Trucks Crossing	4	30x30	25
Road Work Ahead	1	48x48	16
Road Worker Symbol	1	36x36	9
Pavement Ends	1	30x30	6.25
Loose Gravel	1	30x30	6.25
Reverse Curve	2	48x48	32
No Center Stripe	1	48x48	16
Road Closed	3	48x30	30
Large Arrow	4	48x24	32
Bump	4	48x48	64
End Work Zone	1	48x24	8
			353

Total Area =	1006.5 sq ft
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