

MISCELLANEOUS SUMMARIES (Sheet 1 of 4)

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200(1)	C20	C23

ADD CULVERT EXTENSION 0+00

DRAINAGE SUMMARY

SEE PIPE PLOTS AT LI FOR CULVERT DETAILS

Item Number		15204	60201K	60201N	60201P	60201R	60206K	25101C	25101D	60404E	62001CC	25105C	*
Station	Skew (degrees)	Drainage Structure Survey & Staking (each)	18-inch Pipe Culvert (linear foot)	30-inch Pipe Culvert (linear foot)	36-inch Pipe Culvert (linear foot)	48-inch Pipe Culvert (linear foot)	End Section for 18-inch Pipe Culvert (each)	Placed Riprap, Class 3 (cubic yard)	Placed Riprap, Class 4 (cubic yard)	Catch Basin Type 5 (each)	Rubble Masonry, Coarse Pointed Finish (cubic yard)	Mortared Riprap, Class 3 (cubic yard)	Earthwork Geotextile Type IV-E (square yard)
342+53	23	1			118				47		30	70	242
343+17	50	1		162					47		25	58	225
T.S. 8+21.51	26	1	102 2A				2	5					15
State Park 0+60.20	4	1	124 2AB					13			12	15	73
624+50										1			
636+75										1			
646+25										1			
DOFAW No. 2 0+50	0	1	28	INSTALLED SUB				12			10	10	63
Pu'u O'o Ranch 0+74.73	10	1	68	DELETED				14			14	19	85
1014+15	10	1				140			56		31	35	191
1119+50	0	1			106				58		27	40	204
TOTAL		8	322	162	224	140	2	44	208	3	149	247	1098

*Not a pay item, for information only

NOTE: ALL CULVERTS HDPE

SIGN REMOVAL SUMMARY

Item Number	20301B
Station	Removal of Signs* (each)
704+30	1
735+50	1
736+60	1
787+40	1
789+75	1
791+10	2
918+50	1
959+50	1
960+00	1
961+50 to 964+50	8
990+00	1
998+00	2
1019+00 to 1022+00	10
1053+75	1
1080+25	1
1133+50	1
1140+50	1
1153+00	1
1158+50	1
TOTAL	37

REMOVING & RESETTING SIGN SUMMARY

Item Number	63308A
Station	Removing & Resetting Sign (each)
976+50 R	1
1020+50 R	2
1119+10 R	1
1164+25 R	1
TOTAL	5

FIELD ACCESS ROAD SUMMARY

Item Number	62201DG
Station (+/-)	Bulldozer, D-9 (hour)
810+50 to 813+00	5.0
862+00 to 864+00	4.0
877+50 to 880+50	6.0
881+00 to 885+50	9.0
886+25 to 888+50	5.0
890+00 to 893+50	7.0
911+40 to 913+20	4.0
919+25 to 920+75	3.0
925+00 to 927+75	6.0
977+75 to 979+25	3.0
1005+00 to 1010+50	11.0
TOTAL	63.0

APPROACH ROAD SUMMARY

Station (+/-)	Label	Length	Minor Approach Road Survey & Staking (each)
363+74 L	Mauna Kea State Park Access	330	0
375+00 R	Hunting Access "A"	60	1
405+20 R	Hunting Access "B"	70	1
406+10 L	Fire Access No. 8	90	1
428+25 L	Fire Access No. 9	70	1
428+25 R	Hunting Access "C"	65	1
455+50 L	Fire Access No. 10	75	1
455+50 R	Hunting Access "D"	70	1
480+90 L	Fire Access No. 11	85	1
550+95 L	Hunting Access "E1"	85	1
553+00 R	Hunting Access "E2"	85	1
561+25 L	Fire Access No. 12	75	1
662+25 R	Connector Road 3	150	0
686+64 L	Mauna Kea Access	290	0
686+64 R	Pu'u Huluhulu Access	225	0
700+00 R	Mauna Loa Access	150	0
735+80 L	DHHL Access No. 1	85	0
752+60 L	DHHL Access No. 2	160	0
752+60 R	Kipuka Ainahou Access No.1	170	1
783+00 R	DOFAW Field Access No. 1	85	1
790+50 L	DOFAW Field Access No. 2	105	1
795+00 R	Hunting Access	150	1
877+10 R	Kipuka Ainahou Access No.2	80	1
914+35 R	HELCO Access No. 1 & Hunting Access	115	1
946+76 L	Pu'u O'o Ranch Access	200	1
976+83 R	Pu'u O'o Trail Access	95	1
1004+09 L	Saddle House Access	125	1
1020+40 R	Kulani Powerline Access	200	1
1049+00 L	Kipuka 21 Access	190	0
1085+00 L	HELCO Access No. 2	90	1
1135+00 L	HELCO Access No. 3 / DOFAW	110	1
TOTAL		3935	23



The work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of License 4/06

*Do not remove signs until construction in the immediate area requires it.

MISCELLANEOUS SUMMARIES (Sheet 2 of 4)

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200(1)	C21	C23

MISC SUMMARIES									
Item Number	15703	15709	15735	20101	20444	21101	62404N	62504B	62901B
Station	Silt Fence (linear foot)	Check Dams* (each)	Sediment Control Log (each)	Clearing and Grubbing (acre)	Lava Compaction (acre)	Roadway Obliteration (square yard)	Placing Conserved Topsoil, 6-Inch Depth (square yard)	Mulching, Hydraulic Method (acre)	Erosion Control Mat Type 2 (square yard)
340+50 to 351+00	1400		34	3.2		242	7176	1.6	
T.S. 0+00 to T.S. 10+00	550	23	8	2.5		601		1.7	133
360+00 to 366+00	350	12	13	2.4		714	6860	1.4	222
366+00 to 630+50**	2900							12.0	1389
630+50 to 655+00									56
655+00 to 694+00				9.9		1889			
694+00 to 717+00				6.5					
717+00 to 880+50		16	31	35.0	35.0	1486			
880+50 to 900+00		2		5.1	5.1				
900+00 to 925+00		6		7.6	7.6	155			
925+00 to 950+00		4	15	7.8	7.8	268			
950+00 to 975+00		4		8.0	8.0	1904			
975+00 to 1000+00	700	2	20	7.8	7.8	19			
1000+00 to 1025+00		4	20	8.2	8.2	102			
1025+00 to 1050+00		4		8.3	8.3	211			
1050+00 to 1075+00		6		8.2	8.2	1305			
1075+00 to 1100+00		2		7.4	7.4				
1100+00 to 1125+00		4	22	7.4	7.4				
1125+00 to 1150+00		4		7.0	7.0				
1150+00 to 1165+00		2	20	4.3	4.3				
PTA Quarry	1500		10						
TOTAL	7400	95	193	146.6	122.1	8896	14036	16.7	1801

*Check dams may be sediment control log types or other approved by the CO.
**Quantity estimate for silt fence and check dam is to replace the existing devices as necessary (approximately one-half of those existing).

TELEPHONE INSTALLATION SUMMARY		
Item Number	60101	30106GF
Station	Concrete (cubic yard)	Subbase, Government Furnished (cubic yard)
415+00 R	0.44	0.56
482+00 L	0.44	0.56
542+00 R	0.44	0.56
605+00 L	0.47	0.59
670+00 R	0.67	0.83
TOTAL	2.5	3.1

*All other materials and work involved with installing the emergency phones will be paid

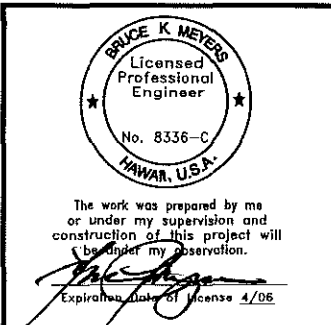
EARTH BERM SUMMARY			
Item Number	15706	25101A	*
Station	Earth Berm (linear foot)	Placed Riprap, Class 1 (cubic yard)	Earthwork Geotextile, Type IV-E (square yard)
347+50 to 350+00	250	30	201
TOTAL	250	30	201

*For information only.

FENCE REMOVAL/PLACEMENT & GATE SUMMARY						
Item Number	20302V	61901AC	61902BG	61902BK	61902BP	61902BQ
Station	Removal of Fence (linear foot)	Fence, Woven Wire Type, 48-inch (linear foot)	Gate, Metal Type, 14-foot Width (each)	Gate, Metal Type, 20-foot Width (each)	Gate, Metal Type, 28-foot Width (each)	Gate, Metal Type, 30-foot Width (each)
662+25 R					1	
735+80 L				1		
752+60 L				1		
783+00 R			1			
696+50 to 743+20 L	4670	4670				
946+76 L			1			
967+00 to 978+00 L	1100	1100				
1004+09 L			1			
1049+00 L						1
TOTAL	5770	5770	3	2	1	1

FIREBREAK FENCE & CURB SUMMARY				
Item Number	41201CM	60905K	61901A	63306
Station	Tack Coat Grade CSS-1, CSS-1h, SS-1, or SS-1h (ton)*	Asphalt Concrete Curb, 4-inch Depth (linear foot)	Fence, Smooth Wire (stainless steel cable) (linear foot)	Object Markers** (each)
360+00 to 375+00	0.02	1538	1538	39
375+00 to 568+00	0.52	38514	38514	963
TOTAL	0.54	40052	40052	1002

*Tack Coat Conversion - 8.3 lbs/gal, 0.05 gal/yd2 **RM-2 reflector markers



MISCELLANEOUS SUMMARIES (Sheet 3 of 4)

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200(1)	C22	C23

TEMPORARY PAVEMENT MARKING SUMMARY

Item Number	63514
Station	Temporary Pavement Markings (linear foot)
Segment 1	
T.S. 0+00 to T.S. 10+00 / 360+00 to 655+00	91500
Segment 2	
655+00 to 694+00	11700
694+00 to 717+50	7050
717+50 to 721+00	1050
721+00 to 732+00	3300
732+00 to 738+50	1950
738+50 to 778+50	12000
778+50 to 788+00	2850
788+00 to 796+00	2400
796+00 to 803+50	2250
803+50 to 812+00	2550
Segment 3	
812+00 to 835+50	7050
835+50 to 865+00	8850
865+00 to 871+50	1950
871+50 to 876+00	1350
876+00 to 880+50	1350
880+50 to 888+00	2250
888+00 to 903+00	4500
903+00 to 910+00	2100
910+00 to 923+00	3900
923+00 to 940+00	5100
940+00 to 952+50	3750
952+50 to 993+00	12150
Segment 4	
993+00 to 1007+00	4200
1007+00 to 1021+00	4200
1021+00 to 1058+50	11250
1058+50 to 1082+00	7050
1082+00 to 1122+00	12000
1122+00 to 1165+00	12900
TOTAL	244500
OPTION O TOTAL	244500

TEMPORARY TRAFFIC CONTROL SUMMARY

Item Number	30811	63505B	63505C	63506	63506A	63508	63509	63510	63511A	63521A	63521C	63539C	63542
Station	Aggregate Surface Course (ton)	Barricade, Type 2 (each)	Barricade, Type 3 (each)	Cone (each)	Cone, Type A (each)	Drum (each)	Flagger (hour)	Pilot Car (hour)	Temporary Barrier (linear foot)	Warning Light, Type A* (each)	Warning Light, Type C** (each)	Traffic and Safety Supervisor (Week)	Construction Sign (Government Furnished) (each)
Segment 1													
T.S. 0+00 to T.S. 10+00 / 360+00 to 655+00	2000.0	10	10	50		20	700					13.8	1
Segment 2													
655+00 to 812+00	4829.8	10	16	50	358	100	3100	1000	4900	48	239	34.4	
Segment 3													
812+00 to 985+00	9780.7	20	30	50	953	100	6200	2100	11750	136	571	68.8	
Segment 4													
985+00 to 1165+00	9503.0	10	40	50	872	100	3100	1000	7600	96	368	34.4	1
TOTAL	26113.5	20	40	50	953	100	13100	4100	11750	136	571	151	2

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. Items in italics are for contractors information only and will not be paid for directly.

* 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.

BOULDER SUMMARY

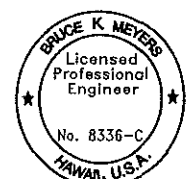
Item Number	25111
Station	Placed Individual Boulders (36-inch Diameter Min.) (each)
1027+50 L	2
1029+00 R	6
1031+00 R	3
1032+50 R	2
1033+50 R	4
1033+50 L	7
1035+50 L	5
1037+50 R	5
1038+00 L	4
1039+50 L	6
1047+00 L	7
TOTAL	51

SHOULDERING & RECONSTRUCTION SUMMARY

Item Number	30810	30302	30811
Station	Shouldering Material (cubic feet)	Aggregate Shouldering* (ton)	Road Reconditioning** (square yard)
366+00 - 375+00	6421.77	446	4654
375+00 - 568+00	91675.00	6367	62457
568+00 - 655+00	82829.22	5752	39333
TOTAL	180925.99	12565	106445
OPTION O			
366+00 - 375+00	1002.69	70	
375+00 - 568+00	19300.00	1340	
568+00 - 655+00	10685.34	742	
OPTION O TOTAL	30988.03	2152	

*used 138.9 lbs per cubic foot conversion.

** does not include approximately 1 mile of roadway.



The work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of License 4/06

MISCELLANEOUS SUMMARIES (Sheet 4 of 4)

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200(1)	C23	C23

CONSTRUCTION SIGN SUMMARY

Item Number							63507
MUTCD ref.	Message	Panel Dimensions (in x in)			Area (square feet)	Quantity	Construction Sign (square feet)
G20-1	Road Work Next 5 Miles	36	x	18	4.50	2	9
G20-2	End Road Work	36	x	18	4.50	4	18
G20-4	Pilot car follow me	36	x	18	4.50	2	9
R4-1	Do Not Pass	24	x	30	5.00	3	15
R4-2	Pass With Care	24	x	30	5.00	4	20
R11-2	Road Closed	48	x	30	10.00	4	40
W1-6	Arrow	48	x	24	8.00	4	32
W1-3	Reverse Curve	30	x	30	6.25	8	50
W3-4	Be Prepared to Stop	48	x	48	16.00	2	32
W5-1	Road Narrows	36	x	36	9.00	2	18
W8-1	Bump	30	x	30	6.25	4	25
W8-3	Pavement Ends	30	x	30	6.25	4	25
W8-6	Trucks Crossing	30	x	30	6.25	4	25
W8-7	Loose Gravel	30	x	30	6.25	4	25
W8-12	No Center Stripe	48	x	48	16.00	4	64
W13-1	XX MPH	18	x	18	2.25	10	22.5
W14-3	No Passing Zone	Irregular			6.00	1	6
W16-2	XX FT	24	x	18	3.00	6	18
W20-1	Road Work Ahead	36	x	36	9.00	2	18
W20-1	Road Work 1000 FT	36	x	36	9.00	2	18
W20-1	Road Work 500 FT	36	x	36	9.00	2	18
W20-4	One Lane Road Ahead	36	x	36	9.00	2	18
W20-7a	Flagger Symbol	36	x	36	9.00	2	18
W21-1a	Worker Symbol	36	x	36	9.00	1	9
W21-2	Fresh Oil	30	x	30	6.25	2	12.5
W21-3	Road Machinery Ahead	36	x	36	9.00	2	18
W21-5	Shoulder Work	30	x	30	6.25	1	6.25
W22-1	Blasting Zone Ahead	48	x	48	16.00	2	32
W22-2	Turn off Radio and Cell Phone	42	x	36	10.50	2	21
W 22-3	End Blasting Zone	42	x	36	10.50	2	21
Special (Government Furnished)	Saddle Road Realignment Start Date: _____ Construction Duration: ____ Months Anticipate Delays	96	x	48	32.00	2	64
TOTAL						96	727

ASSUMPTIONS AND CACLULATIONS

Sign R4-1: Need 2 for detail C635-03 and 2 for detail I 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 one locations in a Segment will use detail C635-05

W8-1, 8-3, and 8-7 assumes two "Pavement End" sections in a Segment

SIGN W13-1:Need 4 for the assumed two locations using detail C635-04, 2 for 635-06, 2 for detail 635-10, and 2 for 635-12

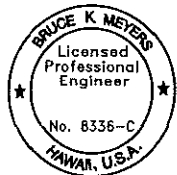
SIGN W14-3: Need 1 for C635-11 or 635-12

Sign W16-2: Need 4 for 635-04 or 635-05, 1 for 635-10, and 1 for 635-12

W20-4: Two needed for C635-06

W21-1a: One sign needed for Detail 635-10

SIGN W21-5: One needed for C635-10



The work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of License 4/06