1	Make this section a part of the Standard Specifications:		
2 3			
3	<b>"SECTION 697 – SURVEYING</b>		
4 5	697.01 Descri	<b>ption.</b> This section describes performing pre-construction and	
6		surveying in accordance with the contract documents.	
0 7	p031-001131140101	i surveying in accordance with the contract documents.	
, 8 9	697.02 Materi	als. Not applicable.	
10 11	697.03 Const	ruction.	
11	(A) Bound	lary survey. As directed by the Engineer, the Contractor shall	
12	complete a boundary survey within the project limits on the State right of		
14	way. Survey shall be performed, stamped, and signed by a Hawaii		
15	-	Land Surveyor.	
16			
17	(1)	Survey shall include, but is not limited to, the following	
18		elements:	
19			
20		i. Property lines for the State right of way and adjacent	
21 22		property lines and side roads to the project. Contactor shall submit boundary map and boundary study to the	
22		State for review and acceptance.	
23 24		ii. State baseline information and existing monuments and	
25		benchmarks.	
26			
27	(2)	Submit the survey to the Engineer in a CAD format as directed	
28		by the Engineer, for the Engineer's review. Make any	
29		changes that the Engineer recommends.	
30			
31	(3)	Submit the final survey in a PDF and CAD format as directed	
32		by the Engineer, prior to construction affecting the existing	
33 34		condition of the project area.	
35	(B) Pre-co	<b>Instruction survey.</b> As directed by the Engineer, the	
36	. ,	r shall complete a pre-construction survey within the project	
37		he State right of way. Survey shall be performed, stamped, and	
38		a Hawaii Licensed Land Surveyor.	
39	0	·	
40	(1)	Survey shall include, but is not limited to, the following	
41		elements:	
42			
43		i. Property lines for the State right of way and adjacent	
44 45		property lines and side roads to the project. Contactor shall submit boundary map and boundary study to the	
43 46		State for review and acceptance.	
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47	ii. State baseline information and existing monuments and
48	benchmarks.
49	iii. All structures within the right of way (curb, gutter,
50	guardrail, end treatments, poles, lights, fences, walls,
51	sidewalk, driveways, signs, signals, pavement, buildings,
52	etc.)
53	iv. All pavement markings, raised pavement markers,
54	delineators, and rumble strips within the right of way
55	(pavement striping, symbols, arrows, words, crosswalks,
56	yield and stop lines, etc.)
57	v. Topographic surveying providing 2' contour intervals.
58	Identify grade break points and other topographic
59	features.
60	vi. Location of all storm drain facilities and invert elevations,
61	size, and material type for all storm drain pipes
62 63	(manholes, culverts, inlets, etc.).
63 64	vii. Location of all above ground facilities and record information for underground facilities, including pipe
04 65	inverts, size, and material for all other utilities (sewer,
66	water, power, communications, etc.). Correlate above
67	ground information with existing utility records.
68	ground mornation war oxisting daily robords.
69	(2) Submit the survey to the Engineer in a CAD format as directed
70	by the Engineer, for the Engineer's review. Make any
71	changes that the Engineer recommends.
72	
73	(3) Submit the final survey in a PDF and CAD format as directed
74	by the Engineer, prior to construction affecting the existing
75	condition of the project area.
76	
77 <b>-</b> 2	(C) Construction Staking. As directed by the Engineer, any
78 70	reconstruction, pavement marking installation, or monument installations
79 80	shall be staked out by a Hawaii Licensed Land Surveyor.
80 81	(D) Post-construction survey. As directed by the Engineer, following
81	completion of construction, the Contactor shall conduct a survey to modify
82	the pre-construction survey to reflect the post construction condition of the
83 84	project limits. Survey shall be performed, stamped, and signed by a
85	Hawaii Licensed Land Surveyor.
86	
87	(1) Submit the survey to the Engineer in a CAD format as directed
88	by the Engineer, for the Engineer's review. Make any
89	changes that the Engineer recommends.
90	
91	(2) Submit the final survey in a PDF and CAD format as directed
92	by the Engineer, before or during pre-final inspection.
93	

697.04 Measurement. The Engineer will measure Surveying as ordered by
the Engineer on a force account basis in accordance with Subsection 109.06 –
Force Account Provisions and Compensation."

97

98 **645.05 Payment.** The Engineer will pay for the accepted Surveying at the 99 contract price on a force account basis in accordance with the contract 100 documents. Payment will be full compensation for the work prescribed in this 101 section and the contract documents.

102

103 The Engineer will compute the actual amount paid to the Contractor for 104 force account work according to Subsection 109.06 – Force Account Provisions 105 and Compensation.

106

107 The Engineer will pay for the following pay items when included in the 108 proposal schedule:

- 109
- 110 **Pay Item**
- 111112 Surveying

An estimated amount for force account is allocated in the proposal schedule under 'Surveying', but actual amount to be paid will be the sum shown on accepted force account records, whether this sum be more or less than the estimated amount allocated in the proposal schedule. The Engineer will pay for surveying requested by the Engineer on a force account basis."

- 119
- 120

## END OF SECTION 697

Pay Unit

Force Account