1 2 3	Amend Section 613 - Centerline and Reference Survey Monuments to read as follows:
4 5	"SECTION 613 - CENTERLINE AND REFERENCE SURVEY MONUMENTS
6 7 8	613.01 Description. This section describes constructing, adjusting, and reconstructing centerline and reference survey monuments.
9	613.02 Materials.
10 11 12	Concrete, Class A 601
13	Reinforcing Steel 709.01
14 15 16	Adhesives for Pavement Markers 712.41
17	Structural Steel 713.01
18 19 20 21	Use brass plug for marking centerline point. Burr or feather plug for anchorage in concrete.
22 23	Use 2-inch, gage no. 9 concrete nails for pipe sleeve and plate.
24	613.03 Construction Requirements.
25 26 27 28 29 30 31 32 33	(A) Initial Installation. Cut holes in completed medians and shoulders. Cut holes to required depth, or to solid rock, whichever is less. Fill hole with concrete. Place the 4 #4 x 20-inch bars as shown on the plans when curing the concrete. Install brass plug in required position after concrete has sufficiently set. After curing concrete at least 7 days, restore edge of pavement surrounding monument to the original condition.
34 35 36	(B) First Pavement Resurfacing Adjustment. Adjust centerline and reference survey monuments before the paving operations.
37 38 39	Cover bottom of plate and sleeve assembly with adhesive and press assembly into place over the existing monument.
40 41 42 43 44 45	Align assembly so that the monument pin is in center of the sleeve. Maintain this alignment and fasten plate to existing concrete by driving concrete nails through predrilled holes. Drive nails until head of each nail is flush with plate. Complete these operations within five minutes of mixing the adhesive.

46	(C) Second and Third Pavement Resurfacing Adjustments.
47	Adjust centerline and reference survey monuments before paving
48	operations.
49	
50	Epoxy contact surfaces between sleeves and weld entire
51	circumference. Fill sleeve with newspaper or similar material to prevent
52	existing monument from being affected by tack coat or paving operations.
53	After laying pavement but before compaction, remove pavement material
54	directly above sleeve, and remove newspaper or similar material from
55	sleeve. After compaction of pavement, clean area enclosed by sleeve
56	so pin and concrete are clearly visible.
57	
58	(D) Reconstruction. Reference existing monument with cross nails
59	after laying and compacting new pavement. Construct new monument.
60	
61	(E) Reference Survey Data. Provide the following reference survey
62	data to the Engineer for all new monuments by qualified personnel under
63	the direct supervision of a surveyor licensed in the State of Hawaii with
64	experience in construction surveying of the work:
65	
66	(1) Stationing and offset
67	
68	(2) Local trig station north-south coordinates.
69	
70	The Engineer may check the Contractor's survey work. The
71	Engineer will inform the Contractor of the results of these checks. Such
72	checks shall not relieve the Contractor of its responsibility for the accuracy
73	of the layout work.
74	
75	Furnish personnel, engineering equipment and supplies,
76	transportation, and material necessary to complete the survey work.
77	
78	613.04 Method of Measurement.
79	and the second s
80	(A) New Centerline and Reference Survey Monument. New
81	centerline and reference survey monuments will be paid on a lump sum
82	basis. Measurement for payment will not apply.
83	(m) n () o () l n () o () l n () o (
84	(B) Reconstructing Centerline and Reference Survey Monument.
85	Reconstructing centerline and reference survey monuments will be paid
86	on a lump sum basis. Measurement for payment will not apply.
87	(O) Addition Contains and Defense Contains Manager The
88	(C) Adjusting Centerline and Reference Survey Monument. The
89	Engineer will measure adjusting centerline and reference survey
90	monument per each.
91	
92	

93	613.05 Basis of Payment.
94 05	(A) N. O (II) 1 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
95 96	(A) New Centerline and Reference Survey Monument. The
90 97	Engineer will pay for the accepted new centerline and reference survey
97 98	monument on a contract lump sum basis. Payment will be full
99	compensation for the work prescribed in this section and the contract documents.
100	documents.
101	(B) Reconstructing Centerline and Reference Survey Monument.
102	The Engineer will pay for the accepted reconstructing centerline and
103	reference survey monument on a contract lump sum basis. Payment will
104	be full compensation for the work prescribed in this section and the
105	contract documents.
106	
107	(C) Adjusting Centerline and Reference Survey Monument. The
108	Engineer will pay for the accepted adjusting centerline and reference
109	survey monument at the contract unit price per each. Payment will be full
110	compensation for the work prescribed in this section and the contract
111	documents
112	
113	The Engineer will pay for the following pay item when included in the
114	proposal schedule:
115	
116	Pay Item Pay Unit
117	
118	Centerline and Reference Survey Monuments Lump Sum
119 120	Paganatruoting Contarling and Deference Company Managements
120	Reconstructing Centerline and Reference Survey Monuments Lump Sum
122	Adjusting Centerline and Reference Survey Monuments Each
123	Adjusting Centerline and Reference Survey Mondinents
124	The Engineer will pay for:
125	The Engineer will pay for.
126	(1) 80 percent of the contract bid price upon completion of adjusting
127	the centerline and reference survey monument;
128	The second street of the second secon
129	(2) 20 percent of the contract bid price upon completion of providing
130	reference survey data to the Engineer for all new monuments."
131	
132	
133	END OF SECTION