

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ADDENDUM NO. 1
FOR
SIGN REPLACEMENT
AT VARIOUS LOCATIONS
PROJECT NO. HWY-O-03-07M
ISLAND OF OAHU
FY 2007**

Amend the Bid Documents as follows:

1. SPECIAL PROVISIONS

- a. Replace Table of Contents dated 5/07/07 with the attached Table of Contents dated r6/12/07.
- b. Replace Pages 110-1a through 110-7a dated 5/07/07 with the attached Pages 110-1a through 110-7a dated r6/07/07.
- c. Replace Pages 630-1a through 630-6a dated 5/07/07 with the attached Pages 630-1a through 630-6a dated r6/12/07.
- d. Replace Pages 631-1a through 631-2a dated 5/07/07 with the attached Pages 631-1a through 631-3a dated r6/12/07.
- e. Replace Pages 632-1a through 632-3a dated 4/16/07 with the attached Pages 632-1a through 632-3a dated r6/12/07.
- f. Add Page 750.01-1a dated 6/12/07.


2. PROPOSAL SCHEDULE

- a. Replace Pages P-7 through P-26 dated 5/07/07 with the attached Pages P-7 through P-38 dated r6/12/07.

3. PRE-BID CONFERENCE

- a. Attached are the June 4, 2007 Pre-bid Conference Minutes and Attendance Sheet for your information.

Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided on page P-4 of the Proposal.



BARRY FUKUNAGA
Director of Transportation

HWY-O-03-07M

06/12/07

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Labor and Material Payment Bond

Chapter 104 Compliance Certificate

Certificate of Compliance for Final Payment

SECTION 110 - SIGN REPLACEMENT

110.01 Scope of Work - The work shall consist of furnishing all labor, necessary equipment, materials and traffic control, to replace signs on the Island of Oahu as requested. Sign replacement for roadside signs, excluding guide signs, involves replacing sign, replacing pole, replacing sign and pole, straightening sign, and cleaning off graffiti. Sign replacement for roadside and overhead guide signs involves replacing sign panel only, overlay sign panels, replacing sign and frame complete, repairing light frame structure, repairing support frame structure, and cleaning off graffiti. All work shall be performed in a professional manner in accordance with current practices and this document. All sign parts and debris shall be removed daily at all locations. See Section 110.03 – Area of Coverage. All signs older than 10-years old shall be replaced where necessary or as directed by the Engineer.

The Contractor shall work as directed by the Highways Division's Oahu District Maintenance Engineer. The Contractor, as per Section 110.04 Safety and Convenience, shall provide traffic control and its cost shall be inclusive of sign replacement work cost.

The Contractor shall possess an "A" General Engineering Contractor's license, or a "C-14" Sign Contractor's license for the full term of the contract, and shall have possessed the license and have performed similar work for at least two years prior to the bid date. Failure to meet this requirement shall be cause of disqualification.

110.02 Contract Period and Option to Extend - The period of the contract shall be for twelve (12) months commencing from the date indicated in the "Notice to Proceed" from the Department. There is an option to extend for two (2) additional twelve (12) month periods, without re-bidding, upon mutual agreement in writing prior to the contract expiration date, provided the initial bid price remains the same. The maximum contract period is thirty-six (36) months.

Failure by the Contractor to execute the amendment to extend the contract within the number of days specified under Section 103.08 Failure to Execute Contract may be cause for cancellation of the written agreement to extend the contract and may be subject to disqualification from bidding future projects for a two-year period in accordance with Section 102.12 Disqualification of Bidders.

110.03 Area of Coverage - The project requires the Contractor to replace signs on the Island of Oahu. Work shall be grouped into four areas along with the corresponding routes as shown on the attached map of the island of Oahu (Figure 1). Note: There are numerous side streets with or without route numbers along State highways where State Jurisdiction extends various distances into side streets. The four areas are:

- (A) **Area 1:** Route 64, Sand Island Access Road/ Sand Island Parkway
Nimitz Highway (92) to Coast Guard Station Gate
Route 78, Moanalua Freeway
Kamehameha Highway (99) On-Ramp to Moanalua Freeway
To Moanalua Freeway Overpass (Structure over H-1)

Route 99, Kamehameha Highway
 Waiawa Interchange to Pearl Harbor Interchange
 Route 92, Nimitz Highway
 Main Gates at Pearl Harbor and Hickam AFB to Richards Street
 Route 92, Ala Moana Boulevard
 Richards Street to Kalakaua Avenue
 Route 7241, Halawa Heights Road
 Kikania Street to Fernridge Place
 Route 7241, Kahuapaani Street
 Salt Lake Boulevard to Halawa Heights Road
 Route 7239, Ulune Extension/Halawa Valley Road
 North East of Kahuapaani Street to Iwaiwa Street
 Route 7351, Radford Drive
 Kamehameha Highway (99) to Bougainville Drive (7350)
 Route 7310, Puuloa Road
 Nimitz Highway to Mahiole Street
 Route 7345, Jarrette White Road
 Mahiole Street to Gate of Tripler Hospital
 Route 7413, Liliha Street
 North King Street to School Street
 Route 7350, Bougainville Drive
 Radford Drive to Vicinity of Radford High School
 Route 7351, Radford Drive
 Kamehameha Highway (99) to Bougainville Drive
 Route 7415, Middle Street
 Kamehameha Highway (99) to Mauka of H-1 Freeway
 *Route H-1, Waiawa Interchange to Kahauiki Interchange
 Pearl City /Waipahu to Middle Street
 Route H-3, Halawa Interchange to Halawa Portal of Harano
 Tunnels
 Route H201, Moanalua Freeway
 Moanalua Freeway Overpass (Structure over H-1) to Kahauiki Interchange
 Ala Ike Street (Leeward Community College)
 Kamehameha Highway (Keehi Interchange)
 Middle Street to Kalihi Stream Bridge
 Kaua Street
 Middle Street to Pineapple Place
 Lagoon Drive
 Nimitz Highway (92) to Koapaka Street
 Moanalua Road (Waiau Interchange)
 Ewa of Kaulike Drive to Kokohead of Hoomalu Street
 North King Street
 Middle Street (7415) to Ola Lane Overpass
 Pacific Street
 Between Nimitz Highway Outbound and inbound lanes in Iwilei
 Salt Lake Boulevard
 Kahuapaani Street (7241) to Luapele Drive
 Sumner Street
 Between Nimitz Highway Outbound and inbound lanes in Iwilei
 Waiawa Road (Near Leeward Community College)
 Farrington Highway (99) to Ala Ike Street

(B) Area 2: Route 76, Fort Weaver Road
Navy Reservation Gate to Farrington Highway (7101)
Route 93, Farrington Highway
(Palailai Interchange to Kaena Point State Park)
Route 95, Kalaeloa Boulevard/ Malakole Street
Palailai Interchange (H-1) to Kalaeloa Barbers Point Harbor
Route 99, Farrington Highway
Waiawa Interchange
Route 750, Kunia Road
Farrington Highway (7101) to Wilikina Drive (99)
Route 901, Fort Barrette Road
Barbers Point Naval Reservation to Makakilo Drive Overpass
Route 7101, Farrington Highway
Fort Weaver Road (76) to Waiawa Interchange
Route 7110, Farrington Highway
Fort Weaver Road (76) to West Access to Old Fort Weaver Road
Route 7141, Iroquois Road
Fort Weaver Road (76) to West Loch Ammunition Depot
Route 7142, Waipahu Street
Kamehameha Highway (99) to Makai End of H-1 Overpass
Farrington Highway (Makakilo Interchange)
Intersection of Fort Barrette Road and Makakilo Drive, 500 Feet on both
sides of intersection

(C) Area 3: Route 80, Kamehameha Highway
Wilikina Drive (99) to Kamananui Road (99)
Route 83, Joseph P. Leong Highway
Kamehameha Highway (99) to Kamehameha Highway (83)
Route 83, Kamehameha Highway
Kahalewai Place to Kahaluu Bridge
Kahekili Highway
Kahaluu Bridge to Intersection of Kahekili Highway & Likelike Highway (63)
Route 83, Likelike Highway
Intersection of Likelike Hwy (63) and Kamehameha Hwy (83) to Kaneohe
Bay Drive (65)
Route 83, Kamehameha Highway
Intersection of Likelike Hwy (63) & Kaneohe Bay Drive (65) to Pali Hwy (61)
Route 99, Kamehameha Highway
Weed Junction (Haleiwa) to Kamananui Road (99)
Route 99, Kamananui Road
Kamehameha Highway (99) to Wilikina Drive (99)
Route 99, Wilikina Drive
Kamananui Road (99) to Kamehameha Hwy (99) at Wahiawa Interchange
Route 930, Farrington Highway
Dillingham Airfield to Kaukonahua Road at Thompson Corner
Route 930, Kaukonahua Road
Kaukonahua Road at Thompson Corner to Weed Junction (Haleiwa)
Route 7012, Whitmore Avenue
Kamehameha Highway (99) to Helemano Naval Reservation

Route 7013, Meheula Parkway (Mililani Interchange)
 Beginning of Northbound On-Ramp to End of Southbound Off-Ramp
 Route 7160, Ka Uka Boulevard (Waipio Interchange)
 Moaniani Street to the beginning of Mililani Memorial Park Road
 Route H-2, Wahiawa Interchange to Waiawa Interchange
 Leilehua Golf Course Road (Leilehua Interchange)
 Kamehameha Highway (99) to Northbound Off-Ramp

(D) Area 4: Route 61, Pali Highway/
 Vineyard Boulevard (98) to Castle Junction
 Route 61, Kalanianaʻole Highway
 Castle Junction to Waimanalo Junction
 Route 61, Kailua Road
 Waimanalo Junction to Kawainui Bridge
 Route 63, Kalihi Street
 Nimitz Highway (92) to School Street
 Route 63, Likelike Highway
 School Street to Intersection of Kahekili Hwy (83) & Likelike Hwy (83)
 Route 65, Kaneohe Bay Drive
 Kamehameha Highway (83) to Vicinity of Kaimalu Place
 Route 65, Mokapu Saddle Road
 Kaneohe Bay Drive (65) to Ilipilio Street
 Route 65, Mokapu Boulevard
 Ilipilio Street to North Kalaheo Avenue
 Route 72, Kalanianaʻole Highway
 Waimanalo Junction to Ainakoa Avenue
 Route 98, Vineyard Boulevard
 H-1 Off-Ramp & Olomea Street to H-1 On-Ramp (Pedestrian Overpass)
 Route 98, Halona Street
 Houghtailing Street to Palama Street
 Route 98, Olomea Street
 Houghtailing Street to Palama Street
 Route 7601, Old Waialae Road (Kapiolani Interchange)
 Kapiolani Boulevard to North King Street
 Route 7801, Waialae Avenue
 17th Avenue to Kilauea Avenue
 *Route H-1, Middle Street to Ainakoa Avenue
 Route H-3, Haiku Portal of Harano Tunnel to Kaneohe
 Marine Corp Base
 Bingham Street
 Punahou Street to Vicinity of Isenberg
 Funchal Street
 Pauoa Road to Pali Highway (61)
 Kaneohe Bay Drive
 Malae Place to Kailua Interchange (H-3)
 Kapahulu Avenue
 Harding Avenue to Kapiolani Boulevard
 Keeaumoku Street
 Kinau Street to Kaihee Street

Kokohead Avenue
Harding Avenue to Pahoehoe Avenue
Lunalilo Street
Ernest Street to Keeaumoku Street
McCully Street
Beretania Street to Dole Street
Metcalf Street
Dole Street to Alexander Street
Papaku Place
Near Piikoi/H-1 On-Ramp (East)
South King/Harding Avenue
Waialae Avenue (near Humane Society) to Second Avenue
Waiaka Road
Waiaka Place to Kapiolani Boulevard
Waioanaka Street

*Note: Night work is required. Refer to Section 110.04
– Safety and Convenience

110.04 Safety and Convenience - The Contractor shall at all times conduct his work to assure the least possible obstruction to public traffic. The Safety and convenience of the general public and the protection of persons and property is of utmost importance, and the Contractor shall provide appropriate traffic control and safety measures. The Contractor and his employees shall treat members of the public in a fair and polite manner. Workers shall present a professional appearance and conduct themselves in a professional manner at all times.

All Traffic control and safety measures shall be done in Conformance with the "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways" adopted by the Director of Transportation, and the current U.S. Federal Highway Administration "Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, Part VI – Standards and Guide for Traffic Controls for Street and Highway Construction, Maintenance, Utility, and Incident Management Operations, 1988 Edition of MUTCD, Revision 3 September 3, 1993. Costs for traffic control shall include set-up and removal of all signs, cones, delineators, barricades, flag persons, police officers, arrow boards, etc., and shall be included in the guardrail proposal price. Traffic control plan figures are attached for reference, see Section 645 – Traffic Control Devices.

Do not close traffic lanes or slow down traffic during the following peak hours:

Morning Peak Hours	6:00 A.M. to 8:30 A.M.
Afternoon Peak Hours	3:00 P.M. to 6:00 P.M.

Above peak hours is daily except Saturdays, Sundays and holidays.

Night work is required for Route H-1, H1/H2 Merge to Ainakoa Avenue. The night work hours are from 10:00 P.M. to 4:30 A.M. Areas 1 and 4 are affected.

The Contractor must notify all private property owners in the vicinity where sign replacement is performed in the event that the work may hinder access to their property. The Contractor must also secure permission prior to entering private property to do sign work, if any.

The Contractor shall remove debris daily and shall leave the work site in a condition equal to or cleaner than prior to commencing work. The Contractor shall be responsible for all hauling and lawful disposal of debris. Any unauthorized or illegal disposal is grounds for termination of the contract.

110.05 Hours of Operation - The Contractor shall be available to provide the specified services during normal working hours and complete the services within the period specified in the work order. Normal working days and hours for the project are defined as Monday through Friday, 8:30 A.M. to 3:00 P.M., except for State holidays. Refer to Section 645 – Work Zone Traffic Control. Authorized Highways personnel will contact the Contractor to schedule work, as needed. All services requested after normal work hours may be charged in accordance with Subsection 107.30 – Overtime and Night Work.

110.06 Disposal of Debris - The Contractor shall be responsible for all hauling and dump fees and shall include the cost of these items in his bid. Any unauthorized or illegal disposal is grounds for termination of the contract.

110.07 Work Orders - Prepare a work order (Figure 2) for each sign replacement or group of sign replacements in the same location. The work order shall be similar to the attached form. The work order shall also include the construction time schedule. At certain work sites, erosion control plans or BMP plans will be requested by the Engineer. Submit the work order for approval to Mr. Michael Medeiros, Highways Division Field Engineer, Oahu District Office, 727 Kakoi Street, Honolulu, Hawaii 96819. Work shall not be performed unless the Contractor receives an approved work order. The Engineer or his representative shall authorize any increases in total price.

110.08 Bond Requirement.

(A). Proposal Guaranty.

In as much as the contract to be executed is a price-term, open end, or requirements contract under which the contract price, or total amount to be paid the Contractor cannot be determined at the time the contract is executed, the proposal guaranty required under Section 102.08 shall be in the following amounts:

<u>Proposal</u>	<u>Security Amount</u>
A – Area 1	\$6,250.00
B – Area 2	\$6,250.00
C – Area 3	\$6,250.00
D – Area 4	\$6,250.00

(B). Performance and Payment Bond.

The contract bond required under Section 103.06 – Requirement of Contract Bond shall be furnished by the Contractor for the term of the contract (twelve (12) months). The bond of the contract shall be submitted to the State, or such additional time as may be granted by the State. Such bond for each extended year may be extensions of the original bond by endorsements thereto.

In as much as the contract to be executed is a price-term, open end, or requirements contract under which the contract price, or total amount to be paid the Contractor cannot be determined at the time the contract is executed, the performance and payment bond amounts required for the work at each Area shall be as follows:

<u>Proposal</u>	<u>Security Amount</u>
A – Area 1	\$125,000.00
B – Area 2	\$125,000.00
C – Area 3	\$125,000.00
D – Area 4	\$125,000.00

110.09 Basis of Payment. Payment shall be made by purchase order. The Contractor shall submit monthly progress payments to the Oahu District Office, 727 Kakoi Street, Honolulu, Hawaii 96819, if services are rendered. (See Subsection 109.09 - Progress Payments).

END OF SECTION 110

SECTION 630 - TRAFFIC CONTROL GUIDE SIGNS

630.01 Description. This section describes furnishing and installing guide signs, sign structures, overhead sign supports, and foundations. Guide signs include freeway, expressway, destination, street name signs, and route markers.

630.02 Materials.

Structural Concrete	601
Zinc Paints and Primers	708.02
Dark Green Enamel Paint	708.03
Paint Thinner	708.04
Signs	750.01
Sign Posts	750.02
Fasteners for Signs and Route Markers	750.03
Ground Mounted Destination and Expressway Sign Supports	750.04
Overhead Expressway Sign Supports	750.05

Retroreflective sheeting shall conform to AASHTO M 268, or as amended in accordance with Subsection 750.01 - Signs.

Submit certification and mill test reports for overhead sign support materials with the following information:

(A) List of component parts showing the following:

(1) Description of each part.

(2) Source of fabrication of material (including ASTM numbers where applicable).

(3) Certificate of Compliance.

(B) Complete and detailed engineering computations accompanying shop drawings that justify selection of dimensions and materials. Computations and drawings shall be stamped and signed by Hawaii Licensed Structural Engineer.

48 (C) Copy of mill test reports for structural members (posts and beams),
49 including physical and chemical descriptions of material incorporated.

50
51 **630.03 Construction.**

52
53 (A) **Destination and Expressway Sign Supports.**

54
55 (1) **Alternate Designs.** Alternate designs for overhead
56 expressway sign supports of either steel or aluminum shall comply
57 with the following:

58
59 (a) Be similar in appearance and construction detail to
60 sign supports indicated in the contract documents.

61
62 (b) Base design on criteria indicated in the contract
63 documents.

64
65 (c) Do not change foundations or other anchorages,
66 including anchor bolt details.

67
68 (d) Design load-carrying capacities at least equal to load-
69 carrying capacities indicated in the contract documents.

70
71 (e) Provide vandal resistance at least equal to that
72 indicated in the contract documents.

73
74 Submit shop drawings, specifications, and structural
75 calculations for alternate designs of overhead sign supports in
76 accordance with Subsection 105.03(A) - Shop Drawing
77 Requirements. Structural calculations and shop drawings shall be
78 stamped and signed by Hawaii Licensed Structural Engineer.
79 Identify on drawings ASTM designated alloy and temper materials.
80 When using stock or standard items, catalog cuts may be submitted
81 instead of shop drawings.

82
83 (2) **Shop Drawings.** Submit shop drawings in accordance with
84 Subsection 105.03(A) - Shop Drawing Requirements and
85 Subsection 501.03(A) - Shop Plans.

86
87 (3) **Welds.** Make welds continuous in accordance with Section
88 501 - Steel Structures.

89
90 Extend weld metal at transverse joints to sleeve, making
91 sleeve an integral part of joint. Use submerged arc process to
92 make longitudinal welds. Grind welds, except fillet welds, flush with
93 base material.

95 **(4) Zinc Coating.** Hot-dip zinc coat exposed surfaces, including
96 inner portion of tubular posts and arms, after fabrication. Hot-dip
97 zinc coat upper 10-1/4 inches of anchor bolts. Zinc coating shall
98 conform to Subsection 501.03(G) - Zinc Coating.
99

100 **(5) Painting.** For steel structural members, paint ground-
101 mounted destination and expressway sign supports and overhead
102 expressway sign posts, crossarms, and panel frames at work site
103 after preparation of zinc-coated surfaces, in accordance with
104 Subsection 501.03(F) - Painting. Alternatively, include one prime
105 coat of zinc-dust, zinc-oxide primer, followed by two coats of dark
106 green enamel paint.
107

108 When indicated in the contract documents, paint aluminum
109 structural members in accordance with Subsection 715.02 -
110 Contacts With Dissimilar Material.
111

112 **(6) Miscellaneous Destination Sign Posts.** Furnish and install
113 zinc-coated steel posts, flanged channel posts, or 12 or 14 gage
114 square tube posts.
115

116 **(7) Aluminum Sign Supports.** Aluminum sign supports shall
117 conform to Subsection 750.05(B) - Aluminum Supports.
118

119 **(B) Exit Number Panel Mounting.** Submit specifications and shop
120 drawings of exit number panel mounting and support attachments to
121 expressway signs.
122

123 Specify and identify materials used in shop drawings in accordance
124 with ASTM standards. Submit catalog cuts instead of shop drawings
125 when using stock or standard items.
126

127 Relocate or furnish and install exit number panel mounting and
128 support attachments to right or left edge of expressway or destination
129 signs, as indicated in the contract documents.
130

131 **(C) Destination And Expressway Signs.**
132

133 **(1) Shop Drawings.** Submit shop drawings of destination and
134 expressway signs.
135

136 **(2) Assembly.** Assemble and check panels in shop for
137 straightness, alignment, and dimensions.

138 **(3) Installation.** Install sign panels carefully and securely.
139 Replace signs chipped or bent during installation.
140
141

141 **(D) Splicing of Reflective Sheeting Material.** Do not splice legends
142 when using reflecting material as background for signs with sheet
143 aluminum backing. Make reflecting material one piece whenever sign
144 dimensions are four feet by six feet or less.

145
146 **(E) Labeling of Signs.** Label back of each new sign with legible block
147 print, one-inch high numbers, in a manner that shall produce markings at
148 least as durable as the sign messages applied to sign face. Include the
149 following information:

150
151 (1) Route Number.

152
153 (2) Mile Post.

154
155 (3) Sign installation date.

156
157 **(F) Refurbishing Sign Panel.** Complete each sign panel within one
158 working day. Exception to this requirement will be contingent upon safety
159 considerations, equipment, provisions for protection of public, and
160 acceptance by the Engineer.

161
162 (1) **Shop Drawings.** Submit shop drawings at least 10 working
163 days before beginning sign refurbishment.

164
165 (2) **Overlay Panels.** Refurbish signs with overlay panels.
166 Messages, shields, arrows, and borders shall conform to *Manual on*
167 *Uniform Traffic Control Devices* (MUTCD) and these specifications.

168
169 Reflectorize overlay panels of aluminum sheets in
170 accordance with Subsection 750.01 - Signs. Reflectorize
171 messages, arrows, and border with Type III or IV retroreflective
172 sheeting or acrylic plastic reflex reflectors. Reflectorize shield
173 symbol with Type III or IV retroreflective sheeting. Aluminum sheet
174 shall conform to ASTM B 209, alloy 6061-T6 flat sheet, and shall be
175 minimum 0.1 inch thick.

176
177 Before fabrication, verify sizes of sign panels, and sizes,
178 shape, and format of letters, numerals, symbols, and borders.
179 Immediately inform the Engineer of discrepancies. Correct
180 discrepancies. Before fabrication, submit final design of sign and
181 splice locations.

182
183 Fabricate and install overlay panels in accordance with
184 manufacturer's instructions.

185
186 Remove existing letters, numerals, symbols, and borders.
187 Clean and prepare sign panel for overlaying, as recommended by

188 panel manufacturer.

189
190 Prefabricated overlay panels may be installed with existing
191 sign panel remaining in place.

192
193 **(G) Removal of Existing Signs.** Remove, clean, and store existing
194 expressway and destination signs that will not be used in project. The
195 Engineer will designate signs to be stored or disposed of.

196
197 **(H) Street Name Sign on Traffic Signal Mast Arm.** Install signs on
198 mast arms, using brackets.

199
200 **(I) Removal of Graffiti.** Remove and clean graffiti with approved
201 graffiti removal solvent. Solvent shall be formulated specifically to remove
202 graffiti from traffic signs.

203
204 **630.04 Measurement.**

205
206 **(A)** The Engineer will measure panel per square foot in accordance
207 with the contract documents.

208
209 **(B)** The Engineer will measure galvanized steel post for ground-
210 mounted destination and expressway sign per linear foot.

211
212 **(C)** Post, post and arms; route marker assembly; directional sign post;
213 footing; street name sign; street name sign on traffic signal mast arm;
214 relocation of existing sign; flanged channel or galvanized square tube post
215 for destination sign; breakaway steel post and foundation for ground-
216 mounted destination sign; replacement of existing sign panel with new
217 destination sign panel; overlay panel; removing, storing and installing
218 existing sign onto overhead sign structure; and overhead sign supports
219 and foundation will be paid per each.

220
221 **(D)** The Engineer will measure graffiti removal per square foot
222 according with the contract documents.

223
224 **630.05 Payment.** The Engineer will pay for the accepted pay items listed
225 below at the contract price per pay unit, as shown in the proposal schedule.
226 Payment will be full compensation for work prescribed in this section and the
227 contract documents.

The Engineer will pay for each of the following pay items when included in the proposal schedule:

Pay Item	Pay Unit
Panel for _____	Square Foot
Overlay Panel for _____	Square Foot
Galvanized Steel Post (_____) for Ground-Mounted Destination and Expressway Sign	Each
Destination Sign _____	Square Foot
Slip Base Post for _____	Each
Street Name Sign _____	Each
Type _____ Route Marker _____	Each
Graffiti Removal for _____	Square Foot

The Engineer will pay for the accepted quantities of additional contract items required for alternate design at the contract prices per pay units, as specified in contract change order. Payment will be full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete work, including additional labor, materials, tools, equipment, and other incidentals that may become necessary to complete alternate design work.

END OF SECTION 630

1 **SECTION 631 - TRAFFIC CONTROL REGULATORY, WARNING,**
2 **AND MISCELLANEOUS SIGNS**
3
4

5 **631.01 Description.** This section describes providing regulatory, warning,
6 information, and miscellaneous signs, sign posts, and foundations.
7

8 **631.02 Materials.**
9

10 Signs 750.01
11

12 Sign Posts 750.02
13

14 Fasteners for Signs and Route Markers 750.03
15

16 Retroreflective sheeting shall conform to AASHTO M 268, or as amended
17 in accordance with Subsection 750.01 - Signs.
18

19 **631.03 Construction.**
20

21 **(A) Sign Supports.** Provide permanent signs on posts at required
22 locations. Set posts plumb.
23

24 **(1) Sign Posts.** Use flange channel posts or square tube posts
25 (12 or 14 gage) for the following:
26

27 **(a)** Regulatory and warning signs.
28

29 **(b)** Bikeway signs.
30

31 **(c)** School area signs.
32

33 **(d)** Civil Defense signs.
34

35 **(e)** Conventional motorist services signs.
36

37 **(B) Splicing of Reflective Sheeting Material.** Do not splice legends
38 when using reflecting material as background for signs with sheet
39 aluminum backing. Make reflecting material one-piece whenever sign
40 dimensions are 4 feet by 6 feet or less.
41

42 **(C) Labeling of Signs.** Label back of each sign with legible block
43 print, one-inch high numbers, in a manner that shall produce markings at
44 least as durable as the sign messages applied to sign face. Include the
45 following information:
46
47

(1) Route Number.

(2) Mile Post (same as existing sign).

(3) Date sign installed.

(D) **Refurbishing Sign Panel.** Submit shop drawings at least 10 working days before beginning sign refurbishment. Complete each sign panel within one working day.

(E) **Removal of Existing Signs.** Remove, clean, and store existing regulatory, warning, and miscellaneous signs that will not be used in the contract. The Engineer will designate signs to be stored or disposed of.

(F) **Removal of Graffiti.** Remove and clean graffiti with approved graffiti removal solvent. Solvent shall be formulated specifically to remove graffiti from traffic signs.

(G) **Straightening of Signs.** Reset sign and post(s) that are not plumb. Foundation for post(s) shall be new or reset into undisturbed or compacted soil.

631.04 Measurement.

(A) Regulatory, warning, information, miscellaneous, and straightening of signs will be measured per each in accordance with contract documents. Measurement for post(s) and foundation(s) will only apply to items that specify this hardware.

(B) Post(s) and foundation(s) will be measured per each in accordance with contract documents.

(C) The Engineer will measure graffiti removal per square foot in accordance with contract documents.

631.05 Payment. The Engineer will pay for the accepted pay items listed below at the contract price per pay unit. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for each of the following pay item when included in the proposal schedule:

Pay Item	Pay Unit
Regulatory Sign _____	Each
Warning Sign _____	Each

1
2 Information Sign _____ Each
3
4 Miscellaneous Sign _____ Each
5
6 _____ Post and Foundation (_____) Each
7
8 Graffiti Removal for _____ Square Foot
9
10 Straightening of Sign Each
11

12 The Engineer will not pay for removing and delivering of existing signs that
13 will not be incorporated in the completed project; labeling of new signs; removing,
14 salvaging or storing of existing posts; and removing, cleaning, stacking and
15 delivering the existing signs and posts that are not incorporated in the completed
16 project separately and will consider the cost as included in the lump sum prices
17 for the various traffic control, regulatory, warning, and miscellaneous sign
18 Contract pay items. The cost is for the work prescribed in this section and the
19 contract documents.
20
21
22

END OF SECTION 631

SECTION 632 - MARKERS

632.01 Description. This section describes furnishing and installing reflector, object, and milepost markers, and posts.

632.02 Materials.

Signs 750.01

Sign Posts 750.02

Fasteners for Signs and Route Markers 750.03

Reflector Marker 750.07

Flexible Delineator Posts and Reflectors 750.08

632.03 Construction.

(A) Marker Posts. Set marker posts plumb. Provide the following types of marker posts in accordance with the contract documents:

(1) Metal Posts. Zinc coat metal posts. Provide 1.12 pounds per foot flanged channel posts; or 1-1/2-inch or 2-inch, 12-gage square tube posts; or 2-1/2-inch, 10-gage square tube posts.

(2) Flexible Posts.

(B) Markers.

(1) Reflector Marker. Provide the following types of reflector markers: RM-1, RM-2, RM-3, and RM-5. Reflector markers shall be one of the following:

(a) Type III or IV retroreflective sheeting marker.

(b) Plastic prismatic reflector marker with 3-inch diameter reflector units.

(2) Object Marker. Retroreflective sheeting material for object markers specified in this subsection shall conform to Subsection 750.01(C)(4) - Type III or IV Retroreflective Sheeting (High Intensity).

48 (a) **Type I Object Marker (OM1).** OM1 shall be one of
49 the following:

- 50
- 51 1. Nine 3-inch, round, amber plastic prismatic
52 reflectors fastened with blind rivets to yellow Type III
53 or IV retroreflective sheeting marker.
 - 54 2. Yellow Type III or IV retroreflective sheeting
55 marker.

56

57

58 (b) **Type II Object Marker (OM2).** OM2 shall be one of
59 the following:

- 60
- 61 1. Three 3-inch, round, amber plastic prismatic
62 reflectors fastened with blind rivets to yellow Type III
63 or IV retroreflective sheeting marker.
 - 64 2. Yellow Type III or IV retroreflective sheeting
65 marker.

66

67

68 (c) **Type III Object Marker (OM3).** OM3 shall be either
69 Type III or IV retroreflective sheeting marker.

70

71 (d) **End-of-Road Marker (OM4).** OM4 shall be one of
72 the following:

- 73
- 74 1. Nine 3-inch, round, red plastic prismatic
75 reflectors fastened with blind rivets to red Type III or
76 IV retroreflective sheeting marker.
 - 77 2. Red Type III or IV retroreflective sheeting
78 marker.

79

80

81 (C) **Removal of Graffiti.** Remove and clean graffiti with approved
82 graffiti removal solvent. Solvent shall be formulated specifically to remove
83 graffiti from traffic signs.

84

85 **632.04 Measurement.**

86 (A) Milepost marker with post, milepost marker, and object marker will
87 be measured per each in accordance with contract documents.

88

89 (B) The Engineer will measure graffiti removal per square foot in
90 accordance with the contract documents.

91

92 **632.05 Payment.** The Engineer will pay for the accepted pay items listed
93 below on an each basis. Payment will be full compensation for the work
94 prescribed in this section and the contract documents.

95

96

97 The Engineer will pay for each of the following pay items when included in
98 the proposal schedule:

99

100	Pay Item	Pay Unit
101		
102	Milepost Marker _____	Each
103		
104	Type _____ Object Marker	Each
105		
106	Reflector Marker _____	Each
107		
108	Graffiti Removal for _____	Square Foot
109		

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112

113

END OF SECTION 632

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SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 1 (AREA 1)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.1010	Panel for Overhead Expressway Sign			
630.1010 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1010 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1010 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1020	Panel for Ground Mounted Expressway Sign			
630.1020 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1020 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1020 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1030	Overlay Panel for Overhead Expressway Sign			
630.1030 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1030 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1030 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1040	Overlay Panel for Ground Mounted Expressway Sign			
630.1040 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1040 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1040 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2010	Destination Sign			
630.2010 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.2010 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2010 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2030	Slip Base Post for Destination Sign			
630.2030 a	10 Lin. Ft. or less	1	Each	\$ _____
630.2030 b	10 - 15 Lin. Ft.	1	Each	\$ _____
630.2030 c	greater than 15 Lin. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 1 (AREA 1)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.2031	Galvanized Steel Post (I-beam) for Ground Mounted Destination and Expressway Sign			
630.2031 a	10 Lin. Ft. or less	1	Each	\$ _____
630.2031 b	10 - 15 Lin. Ft.	1	Each	\$ _____
630.2031 c	greater than 15 Lin. Ft.	1	Each	\$ _____
630.3010	Street Name Sign			
630.3010 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3010 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3010 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.3020	Street Name Sign on Post(s)			
630.3020 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3020 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3020 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.3030	Street Name Sign on Overhead Mast Arm			
630.3030 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3030 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3030 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4010	Type "A" Route Marker Assembly			
630.4010 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4010 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4010 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4020	Type "B" Route Marker Assembly			
630.4020 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4020 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4020 c	greater than 6 Sq. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 1 (AREA 1)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.4030	Type "A" Route Marker Assembly with Post(s)			
630.4030 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
630.4030 b	2 - 6 Sq. Ft.	<u>1</u>	Each	\$ _____
630.4030 c	greater than 6 Sq. Ft.	<u>1</u>	Each	\$ _____
630.4040	Type "B" Route Marker Assembly with Post(s)			
630.4040 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
630.4040 b	2 - 6 Sq. Ft.	<u>1</u>	Each	\$ _____
630.4040 c	greater than 6 Sq. Ft.	<u>1</u>	Each	\$ _____
630.9100	Graffiti Removal for Overhead Expressway Sign			
630.9100 a	50 Sq. Ft. or less	<u>1</u>	Sq. Ft.	\$ _____
630.9100 b	51 - 125 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____
630.9100 c	greater than 125 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____
630.9200	Graffiti Removal for Ground Mounted Expressway and Destination Sign			
630.9200 a	50 Sq. Ft. or less	<u>1</u>	Sq. Ft.	\$ _____
630.9200 b	51 - 125 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____
630.9200 c	greater than 125 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____
630.9300	Graffiti Removal for Street Name Sign and Route Marker Assembly			
630.9300 a	50 Sq. Ft. or less	<u>1</u>	Sq. Ft.	\$ _____
630.9300 b	51 - 125 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____
630.9300 c	greater than 125 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 1 (AREA 1)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.9400	Graffiti Removal for Street Name Sign on Overhead Mast Arm			
630.9400 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9400 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9400 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
631.5100	Regulatory Sign			
631.5100 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5100 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5100 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5110	Regulatory Sign with Post(s)			
631.5110 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5110 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5110 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5200	Warning Sign			
631.5200 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5200 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5200 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5210	Warning Sign with Post(s)			
631.5210 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5210 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5210 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5300	Information Sign			
631.5300 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5300 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5300 c	greater than 10 Sq. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 1 (AREA 1)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
631.5310	Information Sign with Post(s)			
631.5310 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
631.5310 b	2 - 10 Sq. Ft.	<u>1</u>	Each	\$ _____
631.5310 c	greater than 10 Sq. Ft.	<u>1</u>	Each	\$ _____
631.5410	Miscellaneous Sign with Post(s)			
631.5410 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
631.5410 b	2 - 10 Sq. Ft.	<u>1</u>	Each	\$ _____
631.5410 c	greater than 10 Sq. Ft.	<u>1</u>	Each	\$ _____
631.8100	Flanged Channel Post and Foundation (2.50 lbs/ft.)			
631.8100 a	8 Ft. or less	<u>1</u>	Each	\$ _____
631.8100 b	8 - 11 Ft.	<u>1</u>	Each	\$ _____
631.8100 c	greater than 11 Ft.	<u>1</u>	Each	\$ _____
631.8110	Flanged Channel Post and Foundation (4.00 lbs/ft.)			
631.8110 a	8 Ft. or less	<u>1</u>	Each	\$ _____
631.8110 b	8 - 11 Ft.	<u>1</u>	Each	\$ _____
631.8110 c	greater than 11 Ft.	<u>1</u>	Each	\$ _____
631.8200	Square Tube Post and Foundation (2 Inch)			
631.8200 a	8 Ft. or less	<u>1</u>	Each	\$ _____
631.8200 b	8 - 11 Ft.	<u>1</u>	Each	\$ _____
631.8200 c	greater than 11 Ft.	<u>1</u>	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 1 (AREA 1)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
631.8210	Square Tube Post and Foundation (2-1/2 Inch)			
631.8210 a	8 Ft. or less	1	Each	\$ _____
631.8210 b	8 - 11 Ft.	1	Each	\$ _____
631.8210 c	greater than 11 Ft.	1	Each	\$ _____
631.9100	Graffiti Removal for Regulatory, Warning, Information, and Miscellaneous Sign			
631.9100 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
631.9100 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
631.9100 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
632.7500	Mile Post Marker			
632.7500 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7500 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7510	Mile Post Marker with Post(s)			
632.7510 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7510 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7520	Mile Post Marker with Post(s) (Bi-Directional)			
632.7520 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7520 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7600	Type II Object Marker			
632.7600 a	25 Each or less	1	Each	\$ _____
632.7600 b	25 - 100 Each	1	Each	\$ _____
632.7610	Type III Object Marker			
632.7610 a	5 Each or less	1	Each	\$ _____
632.7610 b	5 - 15 Each	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 1 (AREA 1)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
632.7700	Reflector Marker with Galvanized Steel Post(s) and Foundation			
632.7700 a	RM-1	<u>1</u>	Each	\$ _____
632.7700 b	RM-2	<u>1</u>	Each	\$ _____
632.7700 c	RM-3	<u>1</u>	Each	\$ _____
632.7710	Reflector Marker with Type A Delineator			
632.7710 a	RM-1	<u>1</u>	Each	\$ _____
632.7710 b	RM-2	<u>1</u>	Each	\$ _____
632.7710 c	RM-3	<u>1</u>	Each	\$ _____
632.7720	Reflector Marker with Type B Delineator			
632.7720 a	RM-1	<u>1</u>	Each	\$ _____
632.7720 b	RM-2	<u>1</u>	Each	\$ _____
632.7720 c	RM-3	<u>1</u>	Each	\$ _____
632.7730	Reflector Marker on W-beam Guardrail			
632.7730 a	RM-5	<u>1</u>	Each	\$ _____
632.9100	Graffiti Removal for Mile Post and Type III Object Marker			
632.9100 a	2 Sq. Ft. or less	<u>1</u>	Sq. Ft.	\$ _____
632.9100 b	2 - 6 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 1 (AREA 1)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
632.9500	Straightening of Sign			
632.9500 a	Sign with One (1) Post	<u>1</u>	Each	\$ <u> </u>
632.9500 b	Sign with Two (2) Posts	<u>1</u>	Each	\$ <u> </u>
632.9500 c	Sign with Three (3) Posts	<u>1</u>	Each	\$ <u> </u>
SUM OF ALL ITEMS FOR COMPARISON OF BIDS - AREA 1				\$ <u> </u>

The "SUM OF ALL ITEMS FOR COMPARISON OF BIDS" will be used to determine the lowest responsible bidder.

- Notes:
1. Bid prices are for travel time, mileage and furnishing all labor, tools, traffic controls, all applicable taxes, fees and equipment necessary for all work shown and called for in accordance with the true intent and meaning of the specifications.
 2. Bidder may bid on any or all areas. To be considered, bidder must submit a bid for all items within an area.

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 2 (AREA 2)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.1010	Panel for Overhead Expressway Sign			
630.1010 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1010 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1010 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1020	Panel for Ground Mounted Expressway Sign			
630.1020 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1020 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1020 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1030	Overlay Panel for Overhead Expressway Sign			
630.1030 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1030 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1030 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1040	Overlay Panel for Ground Mounted Expressway Sign			
630.1040 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1040 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1040 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2010	Destination Sign			
630.2010 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.2010 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2010 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2030	Slip Base Post for Destination Sign			
630.2030 a	10 Lin. Ft. or less	1	Each	\$ _____
630.2030 b	10 - 15 Lin. Ft.	1	Each	\$ _____
630.2030 c	greater than 15 Lin. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 2 (AREA 2)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.2031	Galvanized Steel Post (I-beam) for Ground Mounted Destination and Expressway Sign			
630.2031 a	10 Lin. Ft. or less	1	Each	\$ _____
630.2031 b	10 - 15 Lin. Ft.	1	Each	\$ _____
630.2031 c	greater than 15 Lin. Ft.	1	Each	\$ _____
630.3010	Street Name Sign			
630.3010 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3010 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3010 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.3020	Street Name Sign on Post(s)			
630.3020 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3020 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3020 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.3030	Street Name Sign on Overhead Mast Arm			
630.3030 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3030 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3030 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4010	Type "A" Route Marker Assembly			
630.4010 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4010 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4010 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4020	Type "B" Route Marker Assembly			
630.4020 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4020 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4020 c	greater than 6 Sq. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 2 (AREA 2)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.4030	Type "A" Route Marker Assembly with Post(s)			
630.4030 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4030 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4030 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4040	Type "B" Route Marker Assembly with Post(s)			
630.4040 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4040 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4040 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.9100	Graffiti Removal for Overhead Expressway Sign			
630.9100 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9100 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9100 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9200	Graffiti Removal for Ground Mounted Expressway and Destination Sign			
630.9200 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9200 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9200 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9300	Graffiti Removal for Street Name Sign and Route Marker Assembly			
630.9300 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9300 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9300 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 2 (AREA 2)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.9400	Graffiti Removal for Street Name Sign on Overhead Mast Arm			
630.9400 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9400 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9400 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
631.5100	Regulatory Sign			
631.5100 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5100 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5100 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5110	Regulatory Sign with Post(s)			
631.5110 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5110 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5110 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5200	Warning Sign			
631.5200 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5200 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5200 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5210	Warning Sign with Post(s)			
631.5210 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5210 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5210 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5300	Information Sign			
631.5300 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5300 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5300 c	greater than 10 Sq. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 2 (AREA 2)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
631.5310	Information Sign with Post(s)			
631.5310 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5310 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5310 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5410	Miscellaneous Sign with Post(s)			
631.5410 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5410 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5410 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.8100	Flanged Channel Post and Foundation (2.50 lbs/ft.)			
631.8100 a	8 Ft. or less	1	Each	\$ _____
631.8100 b	8 - 11 Ft.	1	Each	\$ _____
631.8100 c	greater than 11 Ft.	1	Each	\$ _____
631.8110	Flanged Channel Post and Foundation (4.00 lbs/ft.)			
631.8110 a	8 Ft. or less	1	Each	\$ _____
631.8110 b	8 - 11 Ft.	1	Each	\$ _____
631.8110 c	greater than 11 Ft.	1	Each	\$ _____
631.8200	Square Tube Post and Foundation (2 Inch)			
631.8200 a	8 Ft. or less	1	Each	\$ _____
631.8200 b	8 - 11 Ft.	1	Each	\$ _____
631.8200 c	greater than 11 Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 2 (AREA 2)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
631.8210	Square Tube Post and Foundation (2-1/2 Inch)			
631.8210 a	8 Ft. or less	1	Each	\$ _____
631.8210 b	8 - 11 Ft.	1	Each	\$ _____
631.8210 c	greater than 11 Ft.	1	Each	\$ _____
631.9100	Graffiti Removal for Regulatory, Warning, Information, and Miscellaneous Sign			
631.9100 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
631.9100 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
631.9100 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
632.7500	Mile Post Marker			
632.7500 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7500 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7510	Mile Post Marker with Post(s)			
632.7510 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7510 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7520	Mile Post Marker with Post(s) (Bi-Directional)			
632.7520 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7520 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7600	Type II Object Marker			
632.7600 a	25 Each or less	1	Each	\$ _____
632.7600 b	25 - 100 Each	1	Each	\$ _____
632.7610	Type III Object Marker			
632.7610 a	5 Each or less	1	Each	\$ _____
632.7610 b	5 - 15 Each	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 2 (AREA 2)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
632.7700	Reflector Marker with Galvanized Steel Post(s) and Foundation			
632.7700 a	RM-1	1	Each	\$ _____
632.7700 b	RM-2	1	Each	\$ _____
632.7700 c	RM-3	1	Each	\$ _____
632.7710	Reflector Marker with Type A Delineator			
632.7710 a	RM-1	1	Each	\$ _____
632.7710 b	RM-2	1	Each	\$ _____
632.7710 c	RM-3	1	Each	\$ _____
632.7720	Reflector Marker with Type B Delineator			
632.7720 a	RM-1	1	Each	\$ _____
632.7720 b	RM-2	1	Each	\$ _____
632.7720 c	RM-3	1	Each	\$ _____
632.7730	Reflector Marker on W-beam Guardrail			
632.7730 a	RM-5	1	Each	\$ _____
632.9100	Graffiti Removal for Mile Post and Type III Object Marker			
632.9100 a	2 Sq. Ft. or less	1	Sq. Ft.	\$ _____
632.9100 b	2 - 6 Sq. Ft.	1	Sq. Ft.	\$ _____

**SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 2 (AREA 2)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M**

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
632.9500	Straightening of Sign			
632.9500 a	Sign with One (1) Post	1	Each	\$ _____
632.9500 b	Sign with Two (2) Posts	1	Each	\$ _____
632.9500 c	Sign with Three (3) Posts	1	Each	\$ _____
SUM OF ALL ITEMS FOR COMPARISON OF BIDS - AREA 2				\$ _____

The "SUM OF ALL ITEMS FOR COMPARISON OF BIDS" will be used to determine the lowest responsible bidder.

- Notes:
1. Bid prices are for travel time, mileage and furnishing all labor, tools, traffic controls, all applicable taxes, fees and equipment necessary for all work shown and called for in accordance with the true intent and meaning of the specifications.
 2. Bidder may bid on any or all areas. To be considered, bidder must submit a bid for all items within an area.

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 3 (AREA 3)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.1010	Panel for Overhead Expressway Sign			
630.1010 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1010 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1010 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1020	Panel for Ground Mounted Expressway Sign			
630.1020 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1020 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1020 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1030	Overlay Panel for Overhead Expressway Sign			
630.1030 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1030 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1030 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1040	Overlay Panel for Ground Mounted Expressway Sign			
630.1040 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1040 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1040 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2010	Destination Sign			
630.2010 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.2010 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2010 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2030	Slip Base Post for Destination Sign			
630.2030 a	10 Lin. Ft. or less	1	Each	\$ _____
630.2030 b	10 - 15 Lin. Ft.	1	Each	\$ _____
630.2030 c	greater than 15 Lin. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 3 (AREA 3)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.2031	Galvanized Steel Post (I-beam) for Ground Mounted Destination and Expressway Sign			
630.2031 a	10 Lin. Ft. or less	1	Each	\$ _____
630.2031 b	10 - 15 Lin. Ft.	1	Each	\$ _____
630.2031 c	greater than 15 Lin. Ft.	1	Each	\$ _____
630.3010	Street Name Sign			
630.3010 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3010 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3010 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.3020	Street Name Sign on Post(s)			
630.3020 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3020 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3020 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.3030	Street Name Sign on Overhead Mast Arm			
630.3030 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3030 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3030 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4010	Type "A" Route Marker Assembly			
630.4010 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4010 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4010 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4020	Type "B" Route Marker Assembly			
630.4020 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4020 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4020 c	greater than 6 Sq. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 3 (AREA 3)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.4030	Type "A" Route Marker Assembly with Post(s)			
630.4030 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4030 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4030 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4040	Type "B" Route Marker Assembly with Post(s)			
630.4040 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4040 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4040 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.9100	Graffiti Removal for Overhead Expressway Sign			
630.9100 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9100 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9100 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9200	Graffiti Removal for Ground Mounted Expressway and Destination Sign			
630.9200 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9200 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9200 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9300	Graffiti Removal for Street Name Sign and Route Marker Assembly			
630.9300 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9300 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9300 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 3 (AREA 3)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.9400	Graffiti Removal for Street Name Sign on Overhead Mast Arm			
630.9400 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9400 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9400 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
631.5100	Regulatory Sign			
631.5100 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5100 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5100 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5110	Regulatory Sign with Post(s)			
631.5110 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5110 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5110 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5200	Warning Sign			
631.5200 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5200 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5200 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5210	Warning Sign with Post(s)			
631.5210 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5210 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5210 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5300	Information Sign			
631.5300 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5300 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5300 c	greater than 10 Sq. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 3 (AREA 3)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
631.5310	Information Sign with Post(s)			
631.5310 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
631.5310 b	2 - 10 Sq. Ft.	<u>1</u>	Each	\$ _____
631.5310 c	greater than 10 Sq. Ft.	<u>1</u>	Each	\$ _____
631.5410	Miscellaneous Sign with Post(s)			
631.5410 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
631.5410 b	2 - 10 Sq. Ft.	<u>1</u>	Each	\$ _____
631.5410 c	greater than 10 Sq. Ft.	<u>1</u>	Each	\$ _____
631.8100	Flanged Channel Post and Foundation (2.50 lbs/ft.)			
631.8100 a	8 Ft. or less	<u>1</u>	Each	\$ _____
631.8100 b	8 - 11 Ft.	<u>1</u>	Each	\$ _____
631.8100 c	greater than 11 Ft.	<u>1</u>	Each	\$ _____
631.8110	Flanged Channel Post and Foundation (4.00 lbs/ft.)			
631.8110 a	8 Ft. or less	<u>1</u>	Each	\$ _____
631.8110 b	8 - 11 Ft.	<u>1</u>	Each	\$ _____
631.8110 c	greater than 11 Ft.	<u>1</u>	Each	\$ _____
631.8200	Square Tube Post and Foundation (2 Inch)			
631.8200 a	8 Ft. or less	<u>1</u>	Each	\$ _____
631.8200 b	8 - 11 Ft.	<u>1</u>	Each	\$ _____
631.8200 c	greater than 11 Ft.	<u>1</u>	Each	\$ _____
631.8210	Square Tube Post and Foundation (2-1/2 Inch)			
631.8210 a	8 Ft. or less	<u>1</u>	Each	\$ _____
631.8210 b	8 - 11 Ft.	<u>1</u>	Each	\$ _____
631.8210 c	greater than 11 Ft.	<u>1</u>	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 3 (AREA 3)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
631.9100	Graffiti Removal for Regulatory, Warning, Information, and Miscellaneous Sign			
631.9100 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
631.9100 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
631.9100 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
632.7500	Mile Post Marker			
632.7500 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7500 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7510	Mile Post Marker with Post(s)			
632.7510 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7510 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7520	Mile Post Marker with Post(s) (Bi-Directional)			
632.7520 a	2 Sq. Ft. or less	1	Each	\$ _____
632.7520 b	2 - 6 Sq. Ft.	1	Each	\$ _____
632.7600	Type II Object Marker			
632.7600 a	25 Each or less	1	Each	\$ _____
632.7600 b	25 - 100 Each	1	Each	\$ _____
632.7610	Type III Object Marker			
632.7610 a	5 Each or less	1	Each	\$ _____
632.7610 b	5 - 15 Each	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 3 (AREA 3)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
632.7700	Reflector Marker with Galvanized Steel Post(s) and Foundation			
632.7700 a	RM-1	1	Each	\$ _____
632.7700 b	RM-2	1	Each	\$ _____
632.7700 c	RM-3	1	Each	\$ _____
632.7710	Reflector Marker with Type A Delineator			
632.7710 a	RM-1	1	Each	\$ _____
632.7710 b	RM-2	1	Each	\$ _____
632.7710 c	RM-3	1	Each	\$ _____
632.7720	Reflector Marker with Type B Delineator			
632.7720 a	RM-1	1	Each	\$ _____
632.7720 b	RM-2	1	Each	\$ _____
632.7720 c	RM-3	1	Each	\$ _____
632.7730	Reflector Marker on W-beam Guardrail			
632.7730 a	RM-5	1	Each	\$ _____
632.9100	Graffiti Removal for Mile Post and Type III Object Marker			
632.9100 a	2 Sq. Ft. or less	1	Sq. Ft.	\$ _____
632.9100 b	2 - 6 Sq. Ft.	1	Sq. Ft.	\$ _____

**SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 3 (AREA 3)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M**

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
632.9500	Straightening of Sign			
632.9500 a	Sign with One (1) Post	1	Each	\$ _____
632.9500 b	Sign with Two (2) Posts	1	Each	\$ _____
632.9500 c	Sign with Three (3) Posts	1	Each	\$ _____
SUM OF ALL ITEMS FOR COMPARISON OF BIDS - AREA 3				\$ _____

The "SUM OF ALL ITEMS FOR COMPARISON OF BIDS" will be used to determine the lowest responsible bidder.

- Notes:
1. Bid prices are for travel time, mileage and furnishing all labor, tools, traffic controls, all applicable taxes, fees and equipment necessary for all work shown and called for in accordance with the true intent and meaning of the specifications.
 2. Bidder may bid on any or all areas. To be considered, bidder must submit a bid for all items within an area.

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 4 (AREA 4)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.1010	Panel for Overhead Expressway Sign			
630.1010 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1010 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1010 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1020	Panel for Ground Mounted Expressway Sign			
630.1020 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1020 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1020 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1030	Overlay Panel for Overhead Expressway Sign			
630.1030 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1030 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1030 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1040	Overlay Panel for Ground Mounted Expressway Sign			
630.1040 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.1040 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.1040 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2010	Destination Sign			
630.2010 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.2010 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2010 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.2030	Slip Base Post for Destination Sign			
630.2030 a	10 Lin. Ft. or less	1	Each	\$ _____
630.2030 b	10 - 15 Lin. Ft.	1	Each	\$ _____
630.2030 c	greater than 15 Lin. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 4 (AREA 4)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.2031	Galvanized Steel Post (I-beam) for Ground Mounted Destination and Expressway Sign			
630.2031 a	10 Lin. Ft. or less	1	Each	\$ _____
630.2031 b	10 - 15 Lin. Ft.	1	Each	\$ _____
630.2031 c	greater than 15 Lin. Ft.	1	Each	\$ _____
630.3010	Street Name Sign			
630.3010 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3010 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3010 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.3020	Street Name Sign on Post(s)			
630.3020 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3020 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3020 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.3030	Street Name Sign on Overhead Mast Arm			
630.3030 a	2 Sq. Ft. or less	1	Each	\$ _____
630.3030 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.3030 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4010	Type "A" Route Marker Assembly			
630.4010 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4010 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4010 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4020	Type "B" Route Marker Assembly			
630.4020 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4020 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4020 c	greater than 6 Sq. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 4 (AREA 4)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.4030	Type "A" Route Marker Assembly with Post(s)			
630.4030 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4030 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4030 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.4040	Type "B" Route Marker Assembly with Post(s)			
630.4040 a	2 Sq. Ft. or less	1	Each	\$ _____
630.4040 b	2 - 6 Sq. Ft.	1	Each	\$ _____
630.4040 c	greater than 6 Sq. Ft.	1	Each	\$ _____
630.9100	Graffiti Removal for Overhead Expressway Sign			
630.9100 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9100 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9100 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9200	Graffiti Removal for Ground Mounted Expressway and Destination Sign			
630.9200 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9200 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9200 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9300	Graffiti Removal for Street Name Sign and Route Marker Assembly			
630.9300 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9300 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9300 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 4 (AREA 4)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
630.9400	Graffiti Removal for Street Name Sign on Overhead Mast Arm			
630.9400 a	50 Sq. Ft. or less	1	Sq. Ft.	\$ _____
630.9400 b	51 - 125 Sq. Ft.	1	Sq. Ft.	\$ _____
630.9400 c	greater than 125 Sq. Ft.	1	Sq. Ft.	\$ _____
631.5100	Regulatory Sign			
631.5100 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5100 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5100 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5110	Regulatory Sign with Post(s)			
631.5110 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5110 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5110 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5200	Warning Sign			
631.5200 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5200 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5200 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5210	Warning Sign with Post(s)			
631.5210 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5210 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5210 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5300	Information Sign			
631.5300 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5300 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5300 c	greater than 10 Sq. Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 4 (AREA 4)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
631.5310	Information Sign with Post(s)			
631.5310 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5310 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5310 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.5410	Miscellaneous Sign with Post(s)			
631.5410 a	2 Sq. Ft. or less	1	Each	\$ _____
631.5410 b	2 - 10 Sq. Ft.	1	Each	\$ _____
631.5410 c	greater than 10 Sq. Ft.	1	Each	\$ _____
631.8100	Flanged Channel Post and Foundation (2.50 lbs/ft.)			
631.8100 a	8 Ft. or less	1	Each	\$ _____
631.8100 b	8 - 11 Ft.	1	Each	\$ _____
631.8100 c	greater than 11 Ft.	1	Each	\$ _____
631.8110	Flanged Channel Post and Foundation (4.00 lbs/ft.)			
631.8110 a	8 Ft. or less	1	Each	\$ _____
631.8110 b	8 - 11 Ft.	1	Each	\$ _____
631.8110 c	greater than 11 Ft.	1	Each	\$ _____
631.8200	Square Tube Post and Foundation (2 Inch)			
631.8200 a	8 Ft. or less	1	Each	\$ _____
631.8200 b	8 - 11 Ft.	1	Each	\$ _____
631.8200 c	greater than 11 Ft.	1	Each	\$ _____
631.8210	Square Tube Post and Foundation (2-1/2 Inch)			
631.8210 a	8 Ft. or less	1	Each	\$ _____
631.8210 b	8 - 11 Ft.	1	Each	\$ _____
631.8210 c	greater than 11 Ft.	1	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 4 (AREA 4)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
631.9100	Graffiti Removal for Regulatory, Warning, Information, and Miscellaneous Sign			
631.9100 a	50 Sq. Ft. or less	<u>1</u>	Sq. Ft.	\$ _____
631.9100 b	51 - 125 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____
631.9100 c	greater than 125 Sq. Ft.	<u>1</u>	Sq. Ft.	\$ _____
632.7500	Mile Post Marker			
632.7500 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
632.7500 b	2 - 6 Sq. Ft.	<u>1</u>	Each	\$ _____
632.7510	Mile Post Marker with Post(s)			
632.7510 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
632.7510 b	2 - 6 Sq. Ft.	<u>1</u>	Each	\$ _____
632.7520	Mile Post Marker with Post(s) (Bi-Directional)			
632.7520 a	2 Sq. Ft. or less	<u>1</u>	Each	\$ _____
632.7520 b	2 - 6 Sq. Ft.	<u>1</u>	Each	\$ _____
632.7600	Type II Object Marker			
632.7600 a	25 Each or less	<u>1</u>	Each	\$ _____
632.7600 b	25 - 100 Each	<u>1</u>	Each	\$ _____
632.7610	Type III Object Marker			
632.7610 a	5 Each or less	<u>1</u>	Each	\$ _____
632.7610 b	5 - 15 Each	<u>1</u>	Each	\$ _____

SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 4 (AREA 4)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
632.7700	Reflector Marker with Galvanized Steel Post(s) and Foundation			
632.7700 a	RM-1	1	Each	\$ _____
632.7700 b	RM-2	1	Each	\$ _____
632.7700 c	RM-3	1	Each	\$ _____
632.7710	Reflector Marker with Type A Delineator			
632.7710 a	RM-1	1	Each	\$ _____
632.7710 b	RM-2	1	Each	\$ _____
632.7710 c	RM-3	1	Each	\$ _____
632.7720	Reflector Marker with Type B Delineator			
632.7720 a	RM-1	1	Each	\$ _____
632.7720 b	RM-2	1	Each	\$ _____
632.7720 c	RM-3	1	Each	\$ _____
632.7730	Reflector Marker on W-beam Guardrail			
632.7730 a	RM-5	1	Each	\$ _____
632.9100	Graffiti Removal for Mile Post and Type III Object Marker			
632.9100 a	2 Sq. Ft. or less	1	Sq. Ft.	\$ _____
632.9100 b	2 - 6 Sq. Ft.	1	Sq. Ft.	\$ _____

**SIGN REPLACEMENT AT VARIOUS LOCATIONS
GROUP 4 (AREA 4)
ISLAND OF OAHU
PROJECT NO. HWY-O-03-07M**

PROPOSAL SCHEDULE				
ITEM NO.	ITEM OF WORK	QUANTITY	UNIT	UNIT PRICE
632.9500	Straightening of Sign			
632.9500 a	Sign with One (1) Post	1	Each	\$ _____
632.9500 b	Sign with Two (2) Posts	1	Each	\$ _____
632.9500 c	Sign with Three (3) Posts	1	Each	\$ _____
SUM OF ALL ITEMS FOR COMPARISON OF BIDS - AREA 4				\$ _____

The "SUM OF ALL ITEMS FOR COMPARISON OF BIDS" will be used to determine the lowest responsible bidder.

- Notes:
1. Bid prices are for travel time, mileage and furnishing all labor, tools, traffic controls, all applicable taxes, fees and equipment necessary for all work shown and called for in accordance with the true intent and meaning of the specifications.
 2. Bidder may bid on any or all areas. To be considered, bidder must submit a bid for all items within an area.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DESIGN BRANCH
HIGHWAY DESIGN SECTION
601 KAMOKILA BOULEVARD, ROOM 609
KAPOLEI, HAWAII 96707-2023

PRE-BID CONFERENCE MINUTES

601 KAMOKILA BOULEVARD, CONFERENCE ROOMS 111 A&B
KAPOLEI, HAWAII 96707-2023
4 JUNE 2007 0900 HOURS

PROJECT: SIGN REPLACEMENT AT VARIOUS LOCATIONS

ISLAND OF OAHU

PROJECT NUMBER: HWY-O-03-07M

Pre-Bid Conference began at 9:05 am,
Opened pre-bid conference by stating this is an open-ended project and this conference would answer any questions related to the specifications.

1. Question: Will there be a provision in the specs for a protective sheeting for graffiti?

Response: Will look into it and include it in the addendum, if necessary.

2. Question: For the Destination Sign, can the quantities change from each to square foot? It would be fairer to the DOT since the bids will probably be based on the largest size sign, even though a smaller size is required out in the field.

Response: We will look into it and change it if deemed necessary.

3. Question: Can there be a separate line item for posts for the destination signs? Also, what types of posts are required?

Response: There is a line item "Slip Base Post for Destination Sign".

4. Question: For the Route Marker Assembly (with or without Post), can the quantities change from square feet to the number of signs on each post, since there are usually 2 or 3 signs on each post?

Response: We will look into it and change it if deemed necessary.

5. Question: For Warning Sign, Information Sign, and Miscellaneous Sign (with or without Post), can the limits of the square foot sizes be changed to follow the standard specifications? For sizes 10 Sq. Ft. or less there is only one post, but for greater than 10 Sq. Ft. there are two posts.

For Example: 2 Sq. Ft. or less
 2-10 Sq. Ft.
 greater than 10 Sq. Ft.

Response: Yes, we will change it in the addendum.

6. Question: For Flanged Channel Post and Foundation and Square Tube Post and Foundation, what type of foundation is it? Is it the anchor or concrete type? Specifications don't specify which one.

Response: We will look into it and respond in an addendum.

7. Question: For Mile Post Marker with Post, are there one or two signs?

Response: We will look into it and respond in an addendum.

8. Question: For Type II Object Marker (assuming without Post), does the price include installation? What is it being installed on?

Response: We will look into it and respond in an addendum.

9. Question: For Reflector Marker with Post, what type of post is it on? Flexible? Steel? Specifications do not have RM-4's, but there seems to be a lot of RM-4's currently in place. Instead of using square foot for sizes can price them individually? (e.g. RM-2, RM-3, etc.)

Response: We will look into it and respond in an addendum.

10. Question: Will there be a line item for the cleaning of signs? What if the graffiti doesn't come off? Will we be compensated for the time spent on cleaning the graffiti even though we end up replacing the sign?

Response: Yes, we will add a line item for cleaning of signs and add compensation for time spent cleaning in the addendum.

Pre-Bid Conference concluded at 9:31 am.

SIGN REPLACEMENT AT VARIOUS LOCATIONS

PROJECT NO. HWY-O-03-07M

PRE-BID MEETING

JUNE 4, 2007

9:00 AM

NO.	NAME	COMPANY	PHONE NO.
1	Robert NEHMAD	3M	227-6448
2	DAVID TAKIGUCHI	G.P. ROADWAY INC	842 3200
3	Lana Murashige	DOT	642-7574
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