

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS**

**ADDENDUM NO. 1
FOR
SIDEWALK, CURB AND GUTTER, CONCRETE MEDIAN BARRIER REPAIRS AT
VARIOUS LOCATIONS, ISLAND OF OAHU
FEDERAL-AID PROJECT NO. HWY-OM-2027-38**

September 18, 2026

This Addendum shall make the following amendment(s) to the Solicitation:

A. SPECIAL PROVISIONS

1. Delete **SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS**, dated 8/6/26, in its entirety and replace it with attached **SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS**, dated r9/18/26.
2. Delete **SECTION 645 – WORK ZONE TRAFFIC CONTROL**, dated 7/30/26, in its entirety and replace it with attached **SECTION 645 – WORK ZONE TRAFFIC CONTROL**, dated r9/18/26.
3. Delete **SECTION 680 – DEFECTIVE CONCRETE REPAIRS**, dated 8/14/26, in its entirety and replace it with attached **SECTION 680 – DEFECTIVE CONCRETE REPAIRS**, dated r9/18/26.

B. PROPOSAL SCHEDULE

1. Delete **PROPOSAL SCHEDULE**, pages P-6 to P-28, dated 8/14/26, and replace it with attached **PROPOSAL SCHEDULE**, pages P-6 to P-28, dated r9/18/26.

The following is provided for information.

C. PRE-BID MEETING MINUTES

1. The attached **PRE-BID MEETING MINUTES** are provided for your information.

D. RESPONSES TO REQUESTS FOR INFORMATION (RFI'S/QUESTIONS)

1. The attached **RESPONSES TO REQUESTS FOR INFORMATION** are provided for 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.

Henry Kennedy

HENRY KENNEDY
Engineering Program Manager

1 Make this section a part of the Standard Specifications:

2
3 **"SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS**

4
5
6 **102.01 Prequalification of Bidders.** Prospective bidders shall be capable of
7 performing the work for which they are bidding.

8
9 In accordance with HRS Chapter 103D-310, the Department may require
10 any prospective bidder to submit answers to questions contained in the 'Standard
11 Qualification Questionnaire For Prospective Bidders On Public Works Contracts'
12 furnished by the Department, properly executed and notarized, setting forth a
13 complete statement of the experience of such prospective bidder and its
14 organization in performing similar work and a statement of the equipment
15 proposed to be used, together with adequate proof of the availability of such
16 equipment. Whenever it appears to the Department, from answers to the
17 questionnaire or otherwise, that the prospective bidder is not fully qualified and
18 able to perform the intended work, the Department will, after affording the
19 prospective bidder an opportunity to be heard and if still of the opinion that the
20 bidder is not fully qualified to perform the work, refuse to receive or consider any
21 bid offered by the prospective bidder. All information contained in the answers to
22 the questionnaire shall be kept confidential. Questionnaire so submitted shall be
23 returned to the bidders after serving their purpose.

24
25 No person, firm or corporation may bid where (1) the person, firm, or
26 corporation, or (2) a corporation owned substantially by the person, firm, or
27 corporation, or (3) a substantial stockholder or an officer of the corporation, or (4)
28 a partner or substantial investor in the firm is in arrears in payments owed to the
29 State or its political subdivisions or is in default as a surety or failure to do
30 faithfully and diligently previous contracts with the State.

31
32 **102.02 Contents of Proposal Forms.** The Department will furnish
33 prospective bidders with proposal forms posted in HlePRO stating:

- 34
35 (1) The location,
36
37 (2) Description of the proposed work,
38
39 (3) The approximate quantities,
40
41 (4) Items of work to be done or materials to be furnished,
42
43 (5) A schedule of items, and
44
45 (6) The time in which the work shall be completed.
46

Papers bound with or attached to the proposal form are part of the proposal. The bidder shall not detach or alter the papers bound with or attached to the proposal when the bidder submits its proposal through HlePRO.

Also, the bidder shall consider other documents including the plans and specifications a part of the proposal form whether attached or not.

102.03 (Unassigned)

102.04 Estimated Quantities. The quantities shown in the contract are approximate and are for the comparison of bids only. The actual quantity of work may not correspond with the quantities shown in the contract. The Department will make payment to the Contractor for unit price items in accordance with the contract for only the following:

- (1) Actual quantities of work done and accepted, not the estimated quantities; or
- (2) Actual quantities of materials furnished, not the estimated quantities.

The Department may increase, decrease, or omit each scheduled quantities of work to be done and materials to be furnished.

102.05 Examination of Contract and Site of Work. The bidder shall examine carefully the site of the proposed work and contract before submitting a proposal.

By the act of submitting a bid for the proposed contract, the bidder warrants that:

- (1) The bidder and its Subcontractors have reviewed the contract documents and found them free from ambiguities and sufficient for the purpose intended;
- (2) The bidder and its workers, employees and subcontractors have the skills and experience in the type of work required by the contract documents bid upon;
- (3) Neither the bidder nor its employees, agents, suppliers or subcontractors have relied upon verbal representations from the Department, its employees or agents, including architects, engineers or consultants, in assembling the bid figure; and
- (4) The basis for the bid figure is solely on the construction contract documents.

93 Also, the bidder warrants that the bidder has examined the site of the
94 work. From its investigations, the bidder acknowledges satisfaction on:

- 95
96 (1) The nature and location of the work;
97
98 (2) The character, quality, and quantity of materials;
99
100 (3) The difficulties to be encountered; and
101
102 (4) The kind and amount of equipment and other facilities needed.
103

104 Subsurface information or hydrographic survey data furnished are for the
105 bidders' convenience only. The data and information furnished are the product of
106 the Department's interpretation gathered in investigations made at the specific
107 locations. These conditions may not be typical of conditions at other locations
108 within the project area or that such conditions remain unchanged. Also,
109 conditions found at the time of the subsurface explorations may not be the same
110 conditions when work starts. The bidder shall be solely responsible for
111 assumptions, deductions, or conclusions the bidder may derive from the
112 subsurface information or data furnished.
113

114 If the Engineer determines that the natural conditions differ from that
115 originally anticipated or contemplated by the Contractor in the items of
116 excavation, the State may treat the difference in natural conditions, as falling
117 within the meaning of Subsection 104.02 – Changes.
118

119 **102.06 Preparation of Proposal.** The submittal of its proposal shall be on
120 forms furnished by the Department. The bidder shall specify in words or figures:

- 121
122 (1) A unit price for each pay item with a quantity given;
123
124 (2) The products of the respective unit prices and quantities;
125
126 (3) The lump sum amount; and
127
128 (4) The total amount of the proposal obtained by adding the amounts
129 of the several items.
130

131 The words and figures shall be in ink or typed. If a discrepancy occurs
132 between the prices written in words and those written in figures, the prices written
133 in words shall govern.
134

135 When an item in the proposal contains an option to be made, the bidder
136 shall choose in accordance with the contract for that particular item.
137 Determination of an option will not permit the Contractor to choose again.
138

The bidder shall sign the proposal properly in ink. A duly authorized representatives of the bidder or by an agent of the bidder legally qualified and acceptable to the Department shall sign, including one or more partners of the bidder and one or more representatives of each entity comprising a joint venture.

When an agent, other than the officer(s) of a corporation authorized to sign contracts for the corporation or a partner of a partnership, signs the proposals, a 'Power of Attorney' shall be on file with the Department or submitted with the proposal. Otherwise, the Department will reject the proposal as irregular and unauthorized.

The bidder shall submit acceptable evidence of the authority of the partner, member(s) or officer(s) to sign for the partnership, joint venture, or corporation respectively with the proposal. Otherwise, the Department will reject the proposal as irregular and unauthorized.

102.07 Irregular Proposals. The Department may consider proposals irregular and may reject the proposals for the following reasons:

(1) The proposal is a form not furnished by the Department, altered, or detached;

(2) The proposal contains unauthorized additions, conditions, or alternates. Also, the proposal contains irregularities that may tend to make the proposal incomplete, indefinite, or ambiguous to its meaning;

(3) The bidder adds provisions reserving the right to accept or reject an award. Also, the bidder adds provisions into a contract before an award;

(4) The proposal does not contain a unit price for each pay item listed except authorized optional pay items; and

(5) Prices for some items are out of proportion to the prices for other items.

(6) If in the opinion of the Director, the bidder and its listed subcontractors do not have the Contactor's licenses or combination of Contractor's licenses necessary to complete the work.

Where the prospective bidder is bidding on multiple projects simultaneously and the proposal limits the maximum gross amount of awards that the bidder can accept at one bid letting, the proposal is not irregular if the limit on the gross amount of awards is clear, and the Department selects the awards that can be given.

102.08 Proposal Guaranty. The Department will not consider a proposal of \$25,000 or more unless accompanied by:

- (1) A deposit of legal tender; or
 - (2) A valid surety bid bond, underwritten by a company licensed to issue bonds in the State of Hawaii, in the form and composed, substantially, with the same language as provided herewith and signed by both parties; or
 - (3) A certificate of deposit, share certificate, cashier's check, treasurer's check, teller's check, or official check drawn by, or a certified check accepted by and payable on demand to the State by a bank, savings institution, or credit union insured by the Federal Deposit Insurance Corporation (FDIC) or the National Credit Union Administration (NCUA).
- (a) The bidder may use these instruments only to a maximum of \$100,000.
 - (b) If the required security or bond amount totals over \$100,000 more than one instrument not exceeding \$100,000 each and issued by different financial institutions shall be acceptable.
 - (c) The instrument shall be made payable at sight to the Department.
 - (d) **If bidder elects options (1) or (3) above for its bid security, said bid security shall be in its original form and shall be submitted before the bid deadline to the Contract Office, Department of Transportation, Aliiaimoku Hale, 869 Punchbowl Street, Room 103, Honolulu, Hawaii 96813. Original surety bid bonds do not need to be submitted to the Contracts Office. Bidders are reminded that a copy of its surety bid bond shall be included with its bid submitted and uploaded to HlePRO.**

In accordance with HRS Chapter 103D-323, the above shall be in a sum not less than 5% of the total amount bid per area.

102.09 Delivery of Proposal. Bidders shall submit and upload the complete proposal in HlePRO prior to the bid opening date and time. Proposals received after said due date and time shall not be considered. Any additional support documents explicitly designated as confidential and/or proprietary shall be uploaded as a separate file to HlePRO. Bidders shall not include confidential and/or proprietary documents with the proposal. The record of each bidder and respective bid shall be open to public inspection. Original (wet ink, hard copy) proposal documents are not required to be submitted. **Contract award shall be based on evaluation of proposals submitted and uploaded to HlePRO.**

FAILURE TO UPLOAD THE COMPLETE PROPOSAL TO HlePRO SHALL BE GROUNDS FOR REJECTION OF THE BID.

If there is a conflict between the specification document and the HlePRO solicitation, the specifications shall govern and control, unless otherwise specified.

102.10 Withdrawal or Revision of Proposals. A bid may be modified or withdrawn prior to the bid opening date and time. Withdrawal or revision of proposal shall be completed, submitted and uploaded to HlePRO prior to the bid opening date and time.

102.11 Public Opening of Proposals. Not applicable.

102.12 Disqualification of Bidders. The Department may disqualify a bidder and reject its proposal for the following reasons:

- (1) Submittal of more than one proposal whether under the same or different name.
- (2) Evidence of collusion among bidders. The Department will not recognize participants in collusion as bidders for any future work of the Department until such participants are reinstated as qualified bidders.
- (3) Lack of proposal guaranty.
- (4) Submittal of an unsigned or improperly signed proposal.
- (5) Submittal of a proposal without a listing of subcontractors or containing only a partial or incomplete listing of subcontractors.
- (6) Submittal of an irregular proposal in accordance with Subsection 102.07 - Irregular Proposals.

(7) Evidence of assistance from a person who has been an employee of the agency within the preceding two years and who participated while in State office or employment in the matter with which the contract is directly concerned, pursuant to HRS Chapter 84-15.

(8) Suspended or debarred in accordance with HRS Chapter 104-25.

(9) Failure to complete the prequalification questionnaire, if applicable.

(10) Failure to attend the mandatory pre-bid meeting, if applicable.

102.13 Material Guaranty. The successful bidder may be required to furnish a statement of the composition, origin, manufacture of materials, and samples.

102.14 Substitution of Materials and Equipment Before Bid Opening. See Subsection 106.13 for Substitution of Materials and Equipment After Bid Opening.

(A) General. When brand names of materials or equipment are specified in the contract documents, they are to indicate a quality, style, appearance, or performance and not to limit competition. The bidder shall base its bid on one of the specified brand names unless alternate brands are qualified as equal or better in an addendum. As specified in the Notice to Bidders, all requests shall be posted as a question in HlePRO under the "Question and Answer" tab.

Supporting documents for specific request shall be emailed to the Project Manager specified in the Notice to Bidders. Request must be posted in HlePRO and supporting documents received by the Project Manager no later than fourteen (14) calendar days before the bid opening date.

An addendum will be issued to inform all prospective bidders of any accepted substitution in accordance with Subsection 102.17 – Addenda.

(B) Statement of Variances. The statement of variances must list all features of the proposed substitution that differ from the contract documents and must further certify that the substitution has no other variant features. The brochure and information submitted shall be clearly marked showing make, model, size, options, and any other features requested by the Engineer and must include sufficient evidence to evaluate each feature listed as a variance. A request will be denied if submitted without sufficient evidence. If after installing the substituted product, an unlisted variance is discovered, the Contractor shall immediately replace the product with a specified product at no increase in contract price and contract time.

314 **(C) Substitution Denial.** Any substitution request not complying with
315 the above requirements will be denied.

316
317 **102.15 Preferences.**

318
319 **(A) Preference for Hawaii Products.** In accordance with ACT 174,
320 SLH 2022, effective June 27, 2022, Hawaii Products Preference shall not
321 apply to solicitations for public works construction. Therefore, the Hawaii
322 Products Preference shall not apply to this project.

323
324 **(B) Preferences for Apprenticeship Programs.** In accordance with
325 ACT 17, SLH 2009 – Apprenticeship Program, a 5% bid adjustment for
326 bidders that are parties to apprenticeship agreements pursuant to Hawaii
327 Revised Statutes (HRS) Section 103-55.6 may be applied to the bidder's
328 price for evaluation purposes. These procedures apply to public works
329 projects with estimated cost of \$250,000 or more and entered into under
330 the provisions of HRS Chapter 103.

331
332 The following provisions apply to this Apprenticeship Program.

333
334 **(1) Definitions**

335
336 **(a)** “Apprenticeable trade”, HRS Section 103-55.6 (c),
337 shall have the same meaning as ‘apprenticeable occupation’
338 pursuant to Hawaii Administrative Rules (HAR) Section 30-1-
339 5.

340
341 **(b)** “Department” means the department of labor and
342 industrial relations.

343
344 **(c)** “Director” means the director of labor and industrial
345 relations.

346
347 **(d)** “Employ” means the employment of a person in an
348 employer-employee relations.

349
350 **(e)** “Governmental body” means as defined in HRS
351 Section 103D-104.

352
353 **(f)** “Party to an apprenticeship agreement” means party
354 to a registered apprenticeship program with the department
355 of labor and industrial relations.

356
357 **(g)** “Preference” means the 5% by which the qualified
358 bidder's offer amount would be decreased for evaluation
359 purposes.

(h) "Public work" shall be as defined in HRS Section 104-2 and HAR Section 12-22-1.

(i) "Registered apprenticeship program" means a construction trade program approved by the department pursuant to HAR Section 12-30-1 and Section 12-30-4.

(j) "Sponsor" means an operator of an apprenticeship program and in whose name the program is approved and registered with the department of labor and industrial relations pursuant to HAR Section 12-30-1.

(k) Offeror – Entity/bidder submitting a proposal to undertake a project.

(l) Procurement Officer – Director of Transportation or his authorized representative.

(2) Qualification Procedures

(a) Any bidder seeking the preference must be a party to an apprenticeship agreement registered with the department at the time the offer is made for each apprenticeable trade the bidder will employ to construct the public works projects for which the offer is being made.

1. The apprenticeship agreement shall be registered and conform to the requirements of HRS Chapter 372.

2. Subcontractors do not have to be a party to an apprenticeship agreement for the bidder to obtain the preference.

3. The bidder is not required to have apprentices in its employ at the time of submittal of an offer to qualify for the preference.

(b) The department shall:

1. Develop and maintain a list of construction trades in registered apprenticeship programs which conform to HRS Chapter 372; and

2. Electronically post the list, including any

amendments, on the department website
(<http://labor.hawaii.gov>).

(c) Bidder is responsible to comply with all submission requirements for registration of its apprenticeship program before requesting a preference.

(d) Bidder shall provide a certification by the sponsor of the respective registered apprenticeship programs covering the relevant trade(s) for the public works project.

(e) *Certification Form 1* issued by the department shall include:

1. Contractor information;
2. Solicitation reference;
3. Trade(s);
4. Date and name of apprenticeship program;
5. Signature of authorized training coordinator or training trust fund administrator certifying that the contractor is a participant in the program, and that the program is registered with the department;
6. Contract information for sponsor's authorized representative signing the form;
7. Number of apprentices enrolled in the program, number who successfully completed the apprenticeship program in the past 12 months, including whether the contractor is signatory to a collective bargaining agreement for that trade, or if not, provide for attachment of a copy of the agreement between the contractor and the program.

(3) Solicitation Procedures.

(a) If the NTB indicates that this project is covered by this preference, and the offer is less than \$250,000 this preference will still be applicable in determining the lowest bidder.

(b) A claim for this preference must include the following:

1. Allow bidder seeking to claim the preference to state the trades the bidder will employ to perform the work;

2. For each trade to be employed to perform the work, the bidder shall submit a completed signed original *Certification Form 1* verifying participation in an apprenticeship program registered with the department;

3. The *Certification Form 1* shall be authorized by an apprenticeship sponsor of the department's list of registered apprenticeship programs. The authorization shall be an original signature by an authorized official of the apprenticeship sponsor; and

4. The completed *Certification Form 1* for each trade must be submitted by the bidder with the offer. Previous certifications shall not apply unless allowed by the solicitation.

(c) Upon receiving *Certification Form 1*, the procurement officer will verify with the department that the apprenticeship program is on the list of apprenticeship programs registered with the department. If the programs are not confirmed by the department, the bidder will not qualify for the preference.

(4) Evaluation and Contract Award

(a) If the bidder certifies participation in an apprenticeship program for each trade which will be employed by the bidder for the project, the procurement officer shall apply the preference and decrease the bidder's total bid amount by five per cent (5%) for evaluation purposes.

(b) Should the bidder qualify for other statutory preferences, all applicable preferences shall be applied to the bidder's price.

(c) The contract amount shall be the original offer amount, exclusive of any preference; the preference is only for evaluation purposes.

(d) Any claims challenging a bidder's representation that the bidder is a participant in an apprenticeship program(s) as claimed, shall be submitted to the procurement officer. The

procurement officer will refer the challenge to the department of labor and industrial relations who shall investigate any such claims and shall make a determination.

(5) Contract Administration

(a) For the duration of a contract awarded utilizing the apprenticeship preference, the contractor shall certify each month that work is being conducted on the project, that it continues to be a participant in the relevant apprenticeship program for each trade it employs.

(b) Monthly certification shall be made on *Monthly Certification Form 2* prepared and made available by the department, be a signed original by the respective apprenticeship program sponsors authorized official, and submitted by the contractor with its monthly payment requests.

(c) Should the contractor fail or refuse to submit its monthly certification forms, or at any time during the construction of the project, cease to be a part to a registered apprenticeship agreement for each apprenticeable trades the contractor employs, or will employ, the contractor will be subject to the following sanctions:

1. Withholding of the requested payment until the required form(s) are submitted;
2. Temporary or permanent cessation of work on the project, without recourse to breach of contract claims by the contractor; provided the agency shall be entitled to restitution for nonperformance or liquidated damages claims; or
3. Proceed to debar or suspend pursuant to HRS Section 103D-702.

(d) If events such as “acts of God,” acts of a public enemy, acts of the State or any other governmental body in its sovereign or contractual capacity, fires, floods, epidemics, freight embargoes, unusually severe weather, or strikes or other labor disputes prevent the contractor from submitting the certification forms, the contractor shall not be penalized as provided herein, provided the contractor completely and expeditiously complies with the certification process when

the event is over.

This subsection shall not apply when its application will disqualify the State from receiving federal funds or aid.

(C) Preference for Recycled Products. Recycled Products shall not apply to this project.

(D) Preference to Hawaii Bidder(s)/Offeror(s). In accordance with HRS §103D-302, the Hawaii bidder preference is applicable to this solicitation, for evaluation purposes only. Bidders (or offerors) desiring to qualify for the five percent (5%) preference shall submit a completed Hawaii Bidder/Offeror Preference Certification Form (Form SPO-081) with each bid at or before the time set for receipt of bids. Certifications submitted for previous or other solicitations will not be accepted.

(E) Evaluation Procedures and Contract Award. For bid evaluation, the Engineer will evaluate the bids by applying the applicable preferences selected by the bidders according to the contract. The Engineer will base the calculations for adjustments upon the original bid prices offered. If more than one preference applies, the evaluated bid price shall be the sum of the original bid price plus applicable preference adjustments.

The Engineer will award the contract to the responsible bidder submitting the responsive bid with the lowest evaluated bid price. The contract amount of the contract awarded shall be the original bid price offered exclusive of any preference.

102.16 Certification for Safety and Health Program for Bids in excess of \$100,000. In accordance with HRS Chapter 396-18, the bidder or offeror, by signing and submitting this proposal, certifies that a written safety and health plan for this project will be available and implemented by the notice to proceed date for this project. Details of the requirements of this plan may be obtained from the State Department of Labor and Industrial Relations, Occupational Safety and Health Division (HIOSH).

102.17 Addenda. Addenda issued shall become part of the contract documents. Addenda to the bid documents will be provided to all prospective bidders via HlePRO. Each addendum shall be an addition to the contract documents. The terms and requirements of the bid documents (i.e., drawings, specifications and other bid and contract documents) cannot be changed prior to the bid opening except by a duly issued addendum."

END OF SECTION 102

Amend “Section 645 – WORK ZONE TRAFFIC CONTROL” to read as follows:

“SECTION 645 - WORK ZONE TRAFFIC CONTROL

645.01 Description. This section describes the following:

(A) Furnishing, installing, maintaining, and subsequently removing work zone traffic control devices, and personnel. Work zone traffic control shall include providing flaggers and police officers.

(B) Keeping roads for public traffic open and in passable condition; providing and maintaining temporary access crossings for trails, businesses, parking lots, garages, residences, farms, parks, and other driveways; taking necessary work precautions for the protection, safety, and convenience of the public; should pedestrian facilities exist, taking necessary measures for safe and accessible passage, with route information and ADAAG compliance, for pedestrians traveling through or near work zone; taking necessary precautions to protect work zone workers from situations that place workers at increased risk from motorized traffic.

(C) Taking safety and precautionary measures, such as illuminating roadway obstructions during hours of darkness, in accordance with Chapter 286, HRS; Title 19, Subtitle 5, Chapters 127, 128, and 129, HAR; and *MUTCD*.

645.02 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
Traffic Delineators	750.09
Preformed Pavement Marking Tape	755.04

Submit electronic crashworthy documentation, including but not limited to, drawings in pdf and CADD, crash test reports, and FHWA eligibility letters certifying compliance with MASH 2016, for signs, sign supports, barricades, tubular markers, cones, vertical panels, and other traffic control devices. Only devices that are deemed crashworthy will be allowed.

47
48 Upon request of the Engineer, furnish self-certified MASH 2016 compliant
49 letter from vendor(s) for each type of Category 1 traffic control device, as defined by
50 FHWA and/or AASHTO, including single-piece traffic cone, single-piece drum, and
51 tubular marker.

52
53 Traffic control devices, including signs, barricades, warning lights, arrow
54 boards, portable changeable message signs, cones, tubular markers, and temporary
55 concrete barriers shall conform to the American Traffic Safety Services Association
56 (ATSSA), *Quality Guidelines for Temporary Traffic Control Devices and Features*
57 and the *MUTCD*.

58
59 Protective devices including barricades, warning signs, lights, and temporary
60 signals shall conform to Title 19, Subtitle 5, Chapters 127, 128, and 129, HAR.
61 Retroreflectorization for protective devices such as barricades, tubular markers, and
62 warning signs shall conform to Subsection 750.01 – Signs.

63
64 **645.03 Construction.** Furnish, install, and maintain barricades, signs, cones,
65 tubular markers, lights, flashing signals, and other traffic control devices.

66
67 Furnish two police officers for each location that requires work zone traffic
68 control. If the Traffic Control Plan (TCP) is included in the contract documents,
69 furnish number of police officers indicated in the TCP, whichever is greater.

70
71 When directing traffic, flaggers, or police officers, or both shall be in direct
72 communication with each other.

73
74 Furnish two Electronic Message Boards or the amount requested by the
75 Engineer for each work site that requires work zone traffic control on a daily basis.

76
77 TCP for lane closure on two-lane road will consider intersections and
78 driveway access. Maximum length of a lane closure on a two-lane road is 1,000
79 feet.

80
81 Submit TCP and schedule at least 15 working days before work starts.
82 Submit modifications and deviations from accepted TCP and schedule at least 15
83 working days before start of work requiring modification or deviation. Illegible TCP
84 will not be accepted.

85
86 Include the following in TCP and schedule:

- 87
88 (1) Signs (type, size, designation, and placement).
89
90 (2) Traffic movements shown by arrows.
91
92 (3) Positions of flaggers and police officers.

(4) Barricades, cones, tubular markers, and additional traffic control devices and measures necessary for protection of work and public safety; and placement, spacing, distances, and reference points for traffic control devices.

(5) Layout, drawn to scale, of traffic control devices, including information needed to layout TCP.

(6) Brief description of work.

(7) Dates of work.

(8) Times of day affected.

(9) Proposed public information sign.

(10) Proposed news release.

Place sign or device situated farthest upstream from work zone first. Then place others progressively downstream toward work zone.

Extend cones or tubular markers to point where cones or tubular markers are visible to approaching traffic.

For signs with messages on both faces, cover inapplicable message before placement.

Keep barricades, construction and warning signs, and other traffic control devices in good condition. Repair, clean, or replace barricades, signs, or other devices as required to maintain effectiveness and appearance. The Engineer alone will decide suitable condition of each barricade, sign, or other traffic control device.

Remove or cover regulatory and warning signs that conflict with TCP. Restore signs upon completion of work or as ordered by the Engineer. Affix object markers to post(s) of covered sign.

Promptly remove or cover construction and warning signs that are not applicable or not in use.

For sign covers, fully covers signs as indicated in the Acceptable category of the ATSSA Quality Guidelines for Temporary Traffic Control Devices and Features. Covers that are deemed to be in the Marginal or Unacceptable categories will not be accepted. Covers that are fabricated from rigid materials will also not be accepted unless it is certified to be MASH 2016 compliant.

Promptly remove traffic control devices that are no longer needed.

Remove traffic control devices in reverse order of installation, starting closest to work zone and continuing away from work zone.

Maintain abutting owners' existing access until replacement access is usable. Obtain permission from abutting owners, including conditions for closing existing access. Submit copy of agreement with abutting owners before beginning work in the affected area.

When working on existing facility that will be kept open to traffic, provide smooth and even surface for public traffic use. Only work on a portion of roadway at one time, and stage construction from one side to other while routing traffic over opposite side.

During subgrade and paving operations, paved shoulders may be used for public traffic.

Do not store material or equipment where it will interfere with public traffic. Remove equipment and other obstructions out of right-of-way or clear zone to permit free and safe passage of public traffic during non-working hours or suspension of work. For storage of materials and equipment, see Subsection 105.14 – Storage and Handling of Materials and Equipment.

Notify Fire Department, in writing, at least 24 hours before blocking or closing road access. Keep fire hydrants accessible to Fire Department by not placing material or other obstructions within five feet of fire hydrant or closer than permitted by applicable ordinances, rules, and regulations.

Notify the Engineer and County, including Bus Systems Division, Police Department, Fire Department, Emergency Medical Services, and Department of Health in writing at least five days before start of construction.

(A) Signs. Install signs sufficiently ahead of location where operations may interfere with use of road by traffic and at intermediate points where new work crosses or coincides with existing road.

Place signs in accordance with TCP as accepted by the Engineer.

(B) Work Zone Signs. Erect work zone signs at the beginning of project and at the end of project at the location indicated by the Engineer. These signs shall remain for the duration of the highway project. Maintain these signs. Place these signs besides the required traffic control signs called for herein.

The work zone signs shall be new and become the property of the Contractor.

(C) **Barricades.**

(1) **General.** Provide, erect, and maintain necessary barricades suitable for protection of work and safety of the public.

Barricades shall be in good condition. Barricade application and installation shall be in accordance with accepted TCP.

Provide sand bags if required or ordered by the Engineer. Sand bags and installation method shall comply with *MUTCD* and be accepted by the Engineer prior to use. Do not place sand bags on striped barricade rail.

During hours of darkness, install steady burn or flashing lamps on barricades selected by the Engineer. Attach lamps on barricade ends closest to traveled way and visible to oncoming traffic.

Do not install signs on barricades unless signs and barricades have been crash tested as a unit and accepted under NCHRP Report 350.

(2) **Retroreflectorization.** Retroreflectorize barricade rails and attachment with retroreflective sheeting in accordance with Subsection 750.01(C)(4) - Type III or IV Retroreflective Sheeting (High Intensity) or Subsection 750.01(C)(5) - Hardened Aluminum-Backed Retroreflective Sheeting.

Retroreflectorize both vertical faces of each barricade rail.

(3) **Color.** Provide white colored rails, frames, and braces with front and back rail faces having 6-inch-wide alternating orange or red and white stripes sloping downward toward traveled way at angle of 45 degrees from vertical. Use stripe colors in accordance with the following:

(a) Use orange and white stripes for the following conditions:

1. Construction work.
2. Detours.
3. Maintenance work.

(b) Use red and white stripes for the following conditions:

1. On roadways with no outlet, such as dead-ends and cul-de-sacs.

2. Ramps or lanes closed for operational purposes.

3. Permanent or semi-permanent closure or termination of roadway.

(4) **Maintenance.** Keep barricades in good condition. Repair, repaint, clean, or replace barricades to maintain effectiveness and appearance. Immediately replace missing or damaged barricades, lamps, sandbags, and other accepted weights.

Clean and repair barricades before relocating to other locations.

(D) **Traffic Delineators.** Install traffic delineators in accordance with accepted TCP.

Maintain traffic delineators in good condition. Immediately replace missing or damaged tubular markers.

Clean delineators prior to relocating to new location.

(E) **Cones.** Install traffic cones in accordance with accepted TCP.

Maintain traffic cones. Keep traffic cones clean and in good repair. Immediately replace lost, stolen, or damaged traffic cones.

Clean cones prior to relocating to new location.

(F) **Lane Closures.** Lane closures will be allowed only from 8:30 a.m. to 3:00 p.m., Monday through Friday. Exceptions to lane closure hours specified require written acceptance by the Engineer. Placement and removal of all work zone devices within the travel lanes, such as arrow boards, cones, etc., are restricted to allowable closure times. No increase in contract price or contract time will be given for lane closure restrictions specified.

For island of Oahu, no lane closures will be allowed during 24-hour periods as follows:

(1) Day preceding holiday (3:00 p.m. to Midnight), except as otherwise specified.

(2) Holidays (Midnight to Midnight).

(3) Day before and day after Thanksgiving Day (Midnight to Midnight).

(4) Three-week holiday period for Christmas and New Years (Midnight to Midnight).

(5) Three-week "Beat-the-School-Jam" period, to be determined, (Midnight to Midnight) beginning approximately third week of August.

(6) Other dates of events indicated in the contract documents.

No time extension will be given for the above restrictions. The contract time for the project has accounted for any loss of time due to the above restrictions.

Closure of only one lane of traffic will be allowed during lane-closure hours. Keep lanes open to traffic and allow flow at posted speed limit during non-lane closure hours.

If applicable, coordinate lane closures with adjacent project(s) at no increase in contract price or contract time.

Rental fees will be assessed in accordance with Subsection 108.10 – Rental Fees for Unauthorized Lane Closure or Occupancy, for failure to open lanes to traffic during peak hours. Morning and afternoon peak hours shall be from 5:30 a.m. to 8:30 a.m. and 3:00 p.m. to 6:00 p.m., respectively, Monday through Friday.

Before scheduling work, submit requests for detours and lane closures as follows:

(1) Detours - 8 weeks before implementing detours.

(2) Lane closures - 6 weeks before implementing lane closures.

Include the following with detour and lane closure requests:

(1) Explanation of proposed changes to existing traffic pattern.

(2) Installation schedule for informational and traffic control signs.

(3) Publication schedule for legal notices.

(4) Plan showing proposed informational signs.

(5) Plan showing lane changes or detours in accordance with accepted TCP, including details at beginning of multi-lane highway lane changes and detours.

Detours or lane closures will not be allowed before the Engineer accepts detour or lane closure request.

TABLE 645-I - FOR TRAFFIC CONTROL PLAN							
POSTED SPEED LIMIT (M.P.H.)	SIGN SPACING (D) (FEET)	TAPER LENGTH (T) (FEET)		LONGI- TUDINAL BUFFER SPACE (B) (FEET)	SPACING OF CONES OR TUBULAR MARKERS (FEET)		
		W = 12' OR LESS	W = GREATER THAN 12' *		TAPER	TANGENT	WORK AREA
20	250	200	W x 17	35	20	20	10
25	250	200	W x 17	55	25	25	10
30	250	250	W x 20	85	30	30	10
35	250	250	W x 20	120	35	35	10
40	500	350	W x 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10
* W = width of lane or shoulder							

(G) **Advisory Signs.** Submit advisory sign shop drawings. Construct, install, maintain, and remove two advisory signs as ordered by the Engineer. Place signs at locations designated by the Engineer. Provide signs, minimum 8 feet wide by 4 feet high, with black letters on orange background, and with three 4.00 pounds/foot flanged channel posts for each sign.

Include starting date and hours of construction in sign message. Use letter heights of 8 inches, Series D. The Engineer will review and accept advisory signs' wording before fabrication. Install advisory signs two weeks before start of construction. Remove advisory signs immediately after construction has been completed or as ordered by the Engineer.

(H) **Advertisement.** Place advertisement in newspaper, as ordered by the Engineer, for the following traffic pattern changes or night work:

- (1) Detours.
- (2) Lane closure.

(3) Permanent road closure.

(4) Permanent new route that changes previous route.

Include the following information:

(1) Map of traffic pattern change limits.

(2) Map showing lane(s) closure and detour pattern.

(3) Notice of starting and ending dates and duration.

(4) Explanation of lane(s) closure or detours in "Notice To Motorist".

Quality of map shall conform to the following requirements:

(1) No freehand printing or penciling.

(2) Highlight important features by darkening, cross-hatching, crossing-out, or coloring important words, as necessary.

(3) Provide maps with minimum size of five columns wide and four columns deep. Lesser width columns may be considered to balance against size of drawing.

(4) Text specifications.

(a) Work being featured - 3/16-inch text.

(b) Major roads and features - 1/8-inch text.

(c) Other roads and features- first letter of sentence upper case.

(d) "NOTICE TO MOTORIST" in upper case.

(e) Message - first letter of sentence upper case.

(5) Line Thickness.

(a) Important feature being advertised - line thicker than rest of map.

(b) Directional arrow - bolder than rest of lines shown on map, when important, to show route traffic should use.

(6) Show reference direction such as "TO HONOLULU" with arrow
Submit the following:

(a) "Notice to Motorists" before placement in newspaper, six weeks before start of work.

(b) Actual size of notice to be published in newspaper. The Engineer will not allow size reduction of notices once accepted. Submit final, camera-ready "Notice to Motorists" advertisement.

Place advertisement for three consecutive days and within one week before traffic pattern changes, in publication as ordered by the Engineer.

645.04 Measurement. Traffic control as specified in Subsection 645.03 – Construction will be measured per lane mile and will not include any work performed under other specific traffic control contract bid items.

The Engineer will measure Electronic Message Boards per each on a daily basis in accordance with the contract documents.

The Engineer will measure Additional Police Officers, Traffic Control Devices, and Advertisement, if ordered by the Engineer, on a force account basis, in accordance with Subsection 109.06 – Force Account Provisions and Compensation.

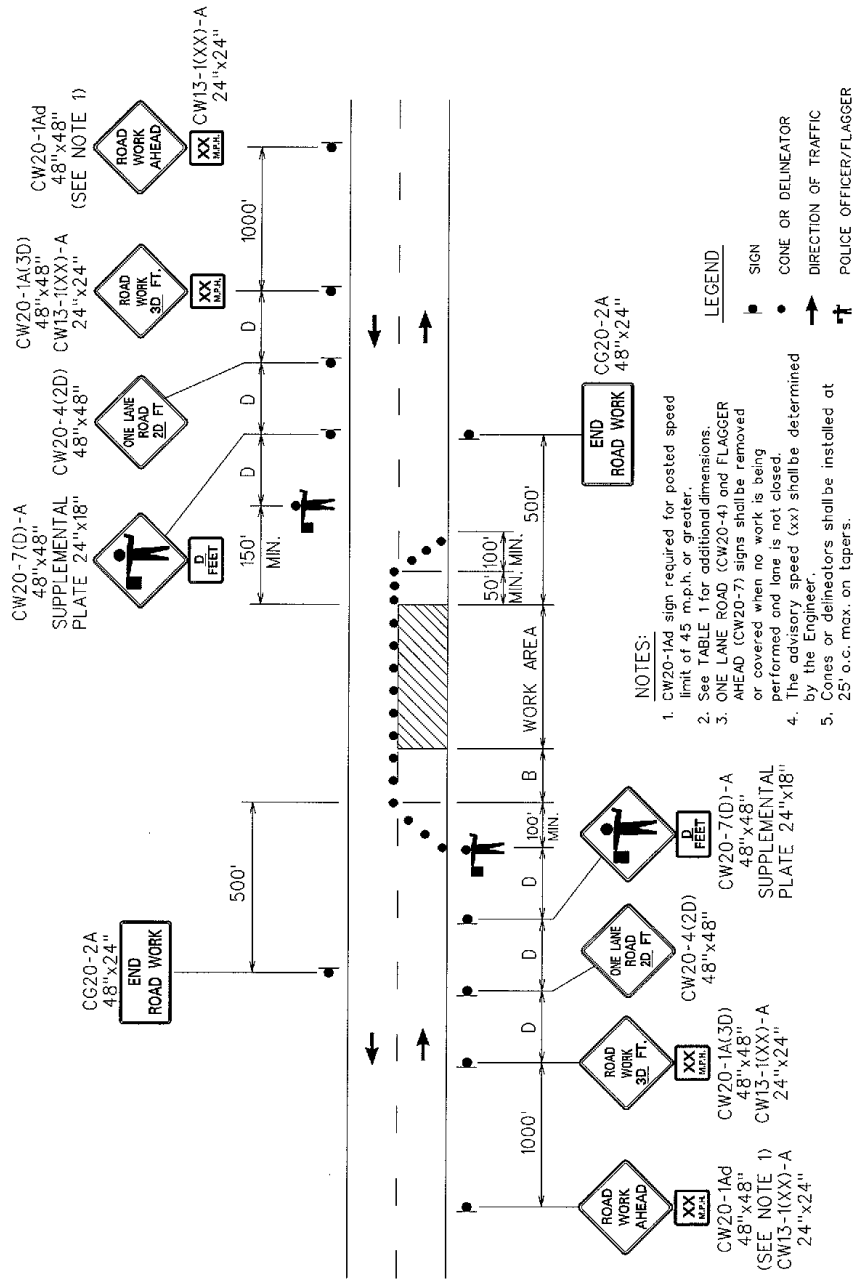
645.05 Payment. The Engineer will pay for the accepted traffic control at the contract price per lane mile. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the accepted Electronic Message Boards at the contract price per each on a daily basis. The price includes full compensation for renting/furnishing, installing, setting up, maintaining and removing one electronic message board for a 24-hour period and furnishing labor, materials, tools, equipment, and incidentals necessary to operate the Electronic Message Boards.

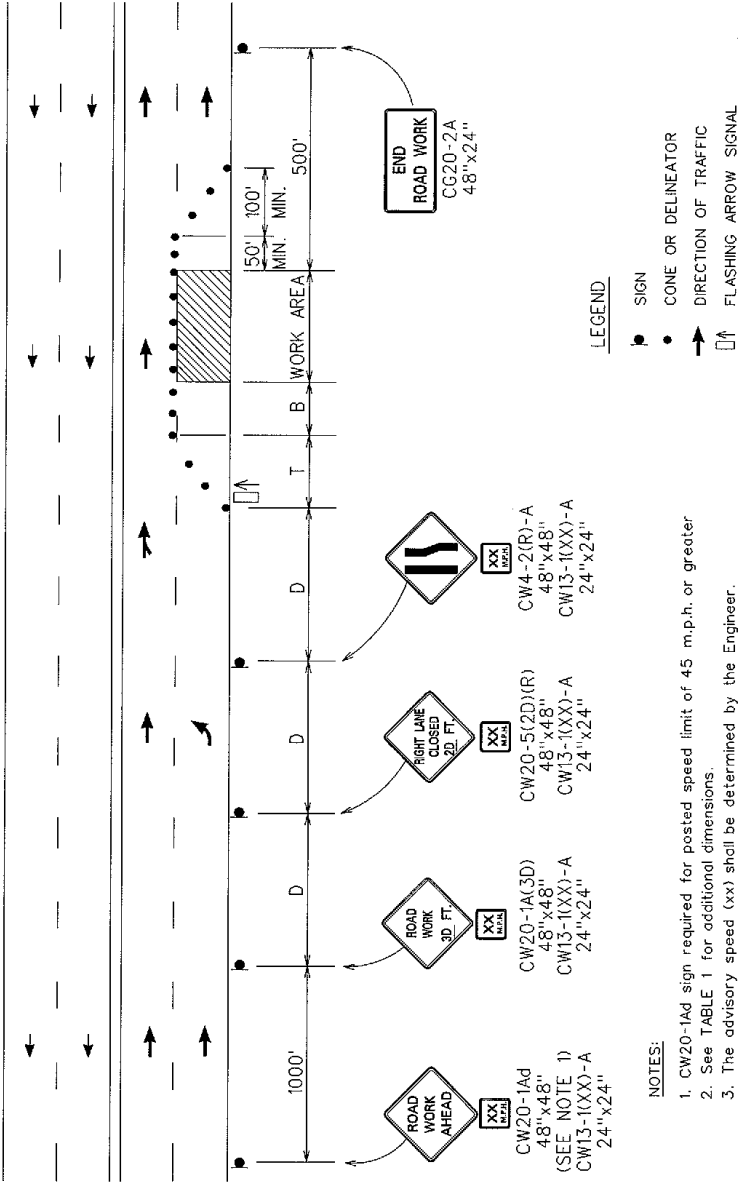
An estimated amount for the force account may be allocated in the proposal schedule under "Additional Police Officers, Traffic Control Devices, and Advertisement," but the actual amount to be paid will be the sum shown on the accepted force account records, whether this sum be more or less than the estimated amount allocated in the proposal schedule. The Engineer will negotiate the force account amounts for the respective pay items when each work order is issued.

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

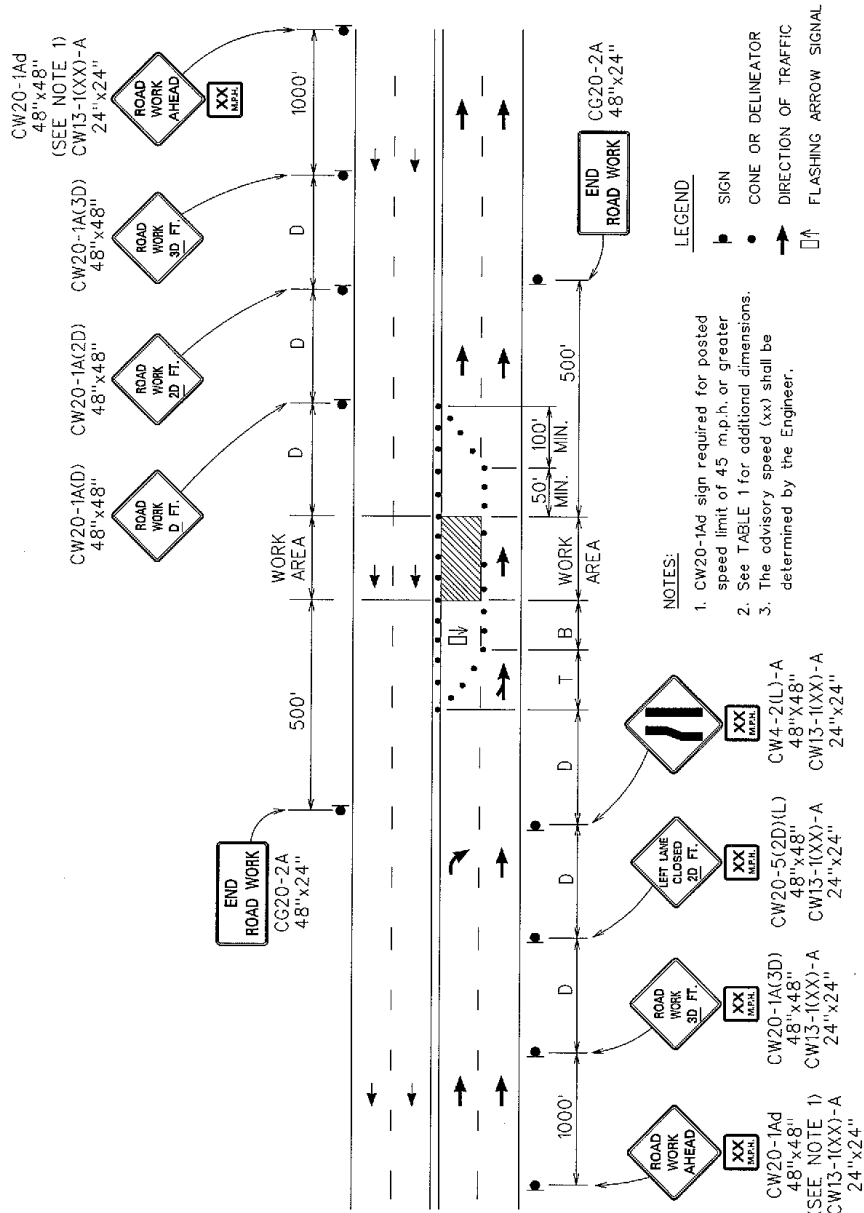
441	Pay Item	Pay Unit
442		
443	Traffic Control (Interstate Freeway)	Lane Mile
444		
445	Traffic Control (State Highway)	Lane Mile
446		
447	Electronic Message Board (per day)	Each
448		
449	Additional Police Officers, Traffic Control	
450	Devices, and Advertisement	Force Account
451		
452	The Engineer will not pay for request submittals. The Engineer will not	
453	consider claims for additional compensation of late submittals or requests by	
454	Contractor.	
455		



TWO-LANE HIGHWAY - ONE LANE CLOSED
FIGURE 1 - TRAFFIC CONTROL PLAN

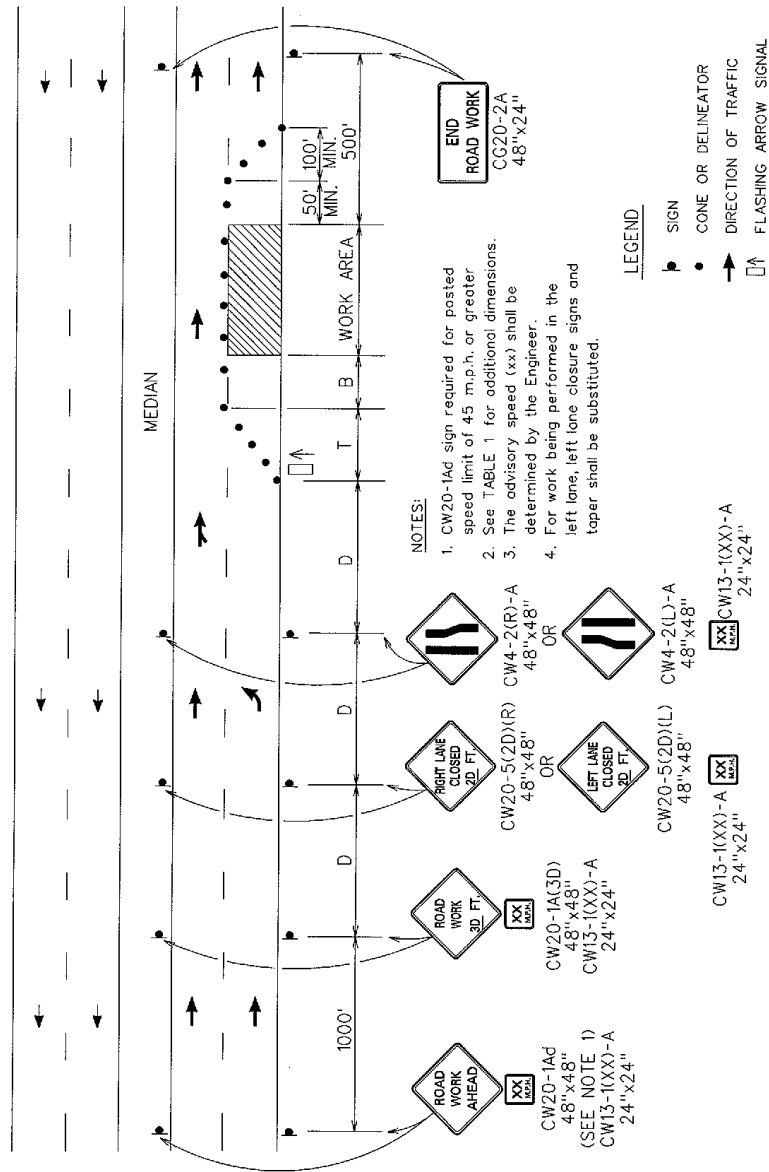


MULTILANE UNDIVIDED HIGHWAY - RIGHT LANE CLOSED



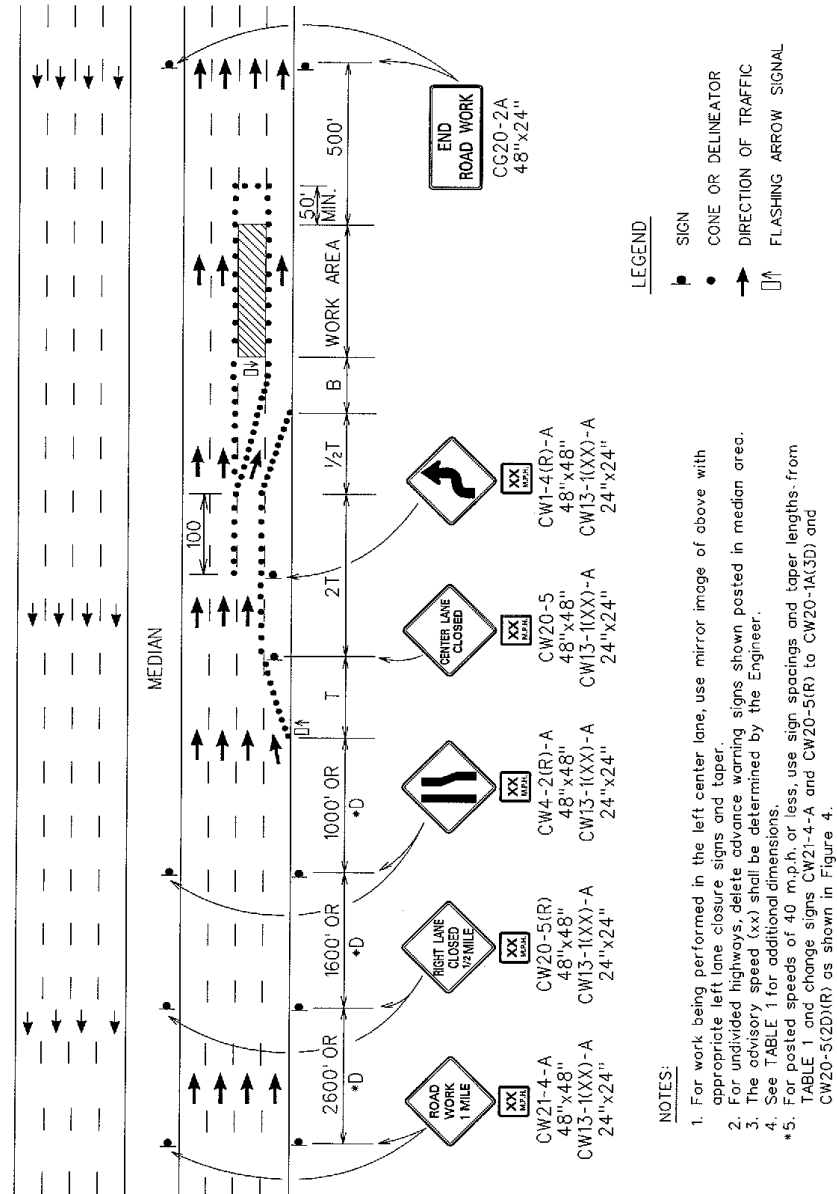
MULTILANE UNDIVIDED HIGHWAY - LEFT LANE CLOSED

FIGURE 3 - TRAFFIC CONTROL PLAN



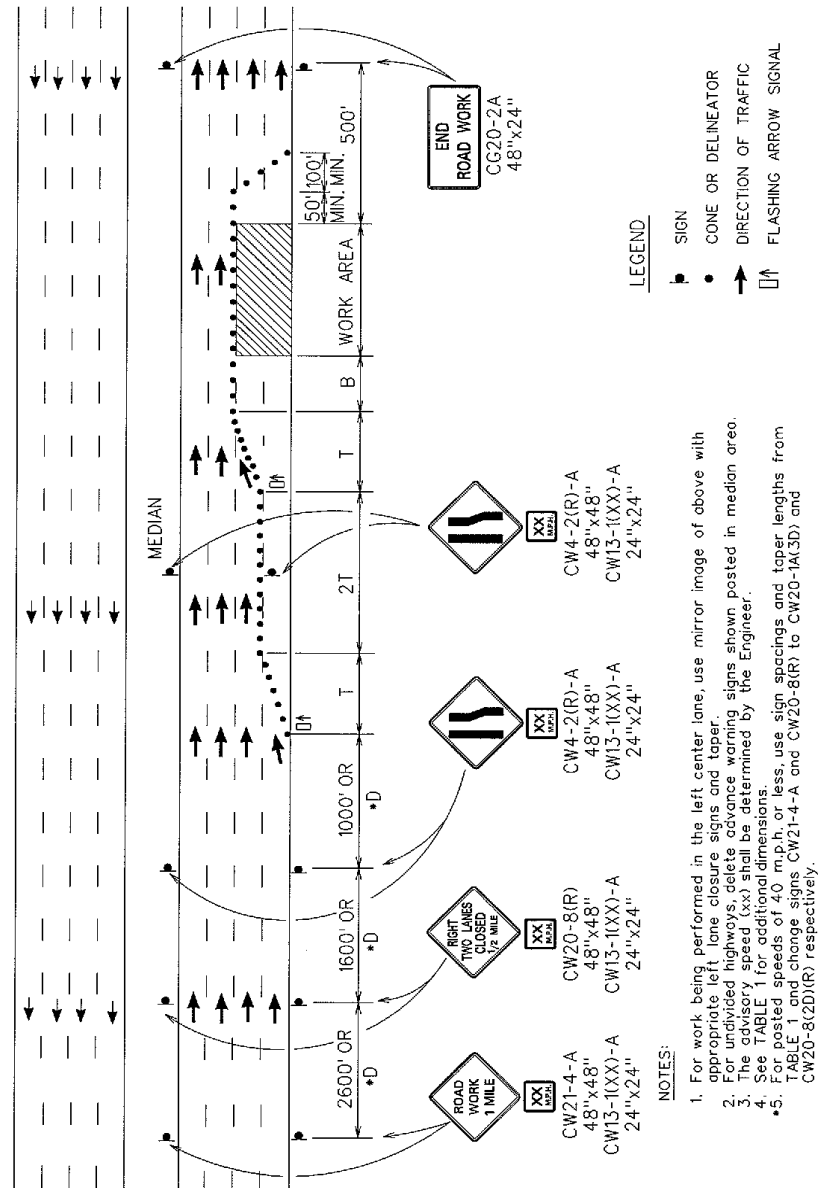
MULTILANE DIVIDED HIGHWAY - ONE LANE CLOSED

FIGURE 4 - TRAFFIC CONTROL PLAN



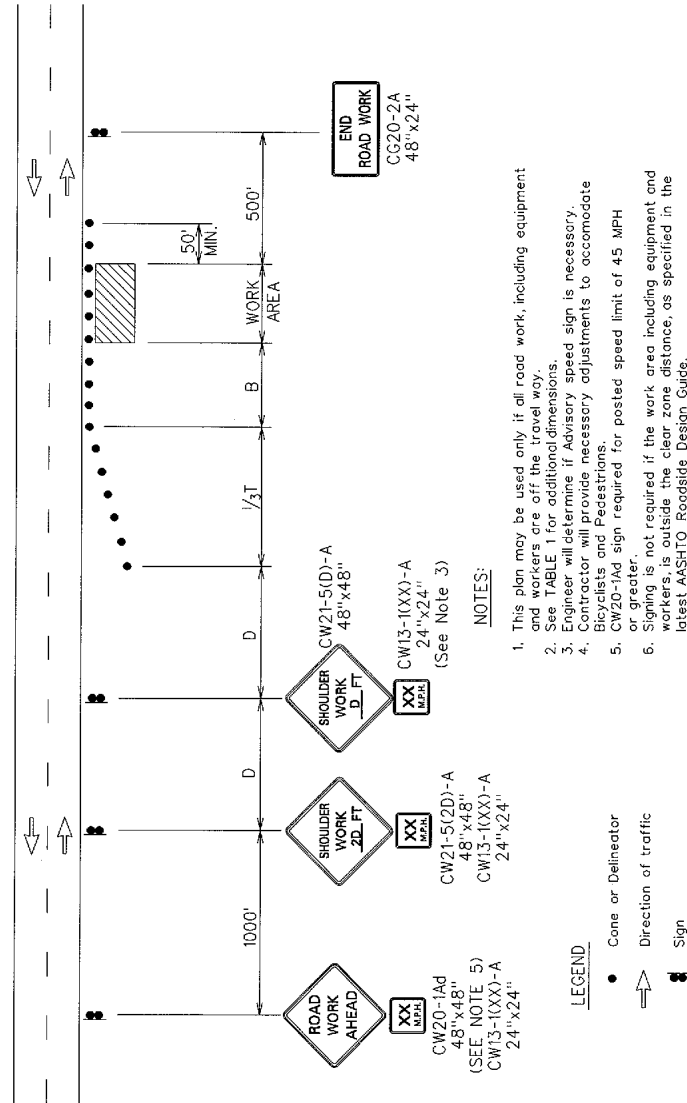
MULTILANE HIGHWAY - CENTER LANE CLOSED

FIGURE 5 - TRAFFIC CONTROL PLAN



MULTILANE HIGHWAY - MULTIPLE LANE CLOSED

FIGURE 6 - TRAFFIC CONTROL PLAN



R10/96

WORKING ON SHOULDER OR ROADSIDE
FIGURE 7 - TRAFFIC CONTROL PLAN

475
476
477
478

END OF SECTION 645

1 Make this section a part of the Standard Specifications:

2
3 **“SECTION 680 – DEFECTIVE CONCRETE REPAIRS**

4
5 **680.01 Description.** This section is for the repair of all concrete spalls,
6 delaminations, honeycombing, and other defective concrete. This section applies
7 to the locations identified by the State but not occurring over streams, tidal waters, or
8 drainage channels.

9
10 **680.02 Materials.** The Contractor shall use a polymer modified repair mortar
11 which shall herein be referred to as the “repair material.”

12
13 **(A) Polymer Modified Repair Mortar:**

14
15 **(1)** A factory blended cementitious patching material (containing no
16 gypsum) combined with a polymer type admixture, water, and a
17 penetrating corrosion inhibitor. The 7-day and 28-day compressive
18 strength shall be at least 4,000 psi and 6,000 psi respectively. The 28-
19 day permeability shall be <1,000 Coulombs per ASTM C1202, and the
20 28-day bond strength shall be at least 2,000 psi per ASTM C882. The
21 polymer type admixture shall be added to the mixing water. The ratio of
22 polymer solids to cement weight shall not be less than 10 percent.

23
24 **(2) Acceptable Materials:**

25
26 Duraltop Gel, The Euclid Chemical Company

27
28 EucoRepair SCC Fast, The Euclid Chemical Company

29
30 SikaTop 123 PLUS, Sika Corp.

31
32 Sikacrete-211 SCC Plus, Sika Corp.

33
34 **(B) Bonding Agent.**

35
36 **(1)** A three component, preproportioned, water based epoxy
37 modified Portland cement bonding agent and anti-corrosion coating
38 designed to bond fresh concrete to existing concrete. ASTM C882
39 Bond strength shall exceed 2400 psi at 14 days and shall be
40 compatible with approved repair materials used.

41
42 **(2) Acceptable Materials:**

43
44 Duraltop AC, The Euclid Chemical Company

45
46 Sika Armatec 110 EpoCem, Sika Corp.

(C) Water. Potable.

(D) Curing Compound. For curing of polymer modified repair concrete and mortars, apply Sinak Lithium Cure 1000 curing compound at a coverage rate of no more than 200 square feet per gallon. For curing concrete that will receive surface sealers, apply impervious sheeting, ASTM C171, or check with the manufacturer of the surface treatments on the recommended method of curing.

(E) Other Materials: All other materials, not specifically described but required for the successful completion and installation of the work, including the addition of course aggregate as permitted by the manufacturer, shall be as selected by the Contractor, subject to the acceptance of the Engineer.

(F) Substitution of Materials.

(1) Use only materials specified herein. Other materials of the same manufacturer or of other manufacturers may not be substituted for those specified without written approval of the Engineer. This is not to be construed as to limit competition but to establish a standard of quality. Other manufacturers of equal or better system of products may be considered as a substitution to the system of products specified herein, however, complete documentation proving that the substituted product meets or exceeds the performance of the specified product shall be provided in order to provide a basis for evaluation and comparison. Submission of incomplete, inadequate, incongruous, vague material and installation data will be grounds for disapproval without review.

(2) Substantiation: For substitution requests, submit documentation from the manufacturer's home office since claims by field sales and products representatives are not recognized by the parent company should a claim be inaccurate.

680.03 Construction.

(A) Submittals.

(1) Material Safety Data Sheets: Furnish the manufacturer's Material Safety Data Sheets for each of the materials present at any time on the job site.

(2) Manufacturer's data sheets and certificates of compliance signed

93 by the manufacturer for the following:

94
95 (a) Bonding agent and anti-corrosion coating for reinforcing
96 steel bars.

97
98 (b) Pre-packaged polymer modified repair mortar which
99 contains a penetrating corrosion inhibitor.

100
101 (c) Materials for curing repair concrete and mortars.

102
103 (d) Equipment: Submit descriptive literature describing the
104 kinds, types, model numbers and operational features of the
105 mixing and application equipment proposed for use on this
106 project.

107
108 (3) Three specimen per test age shall be prepared and tested in
109 accordance with ASTM C109. These test ages are 7-days and 28-
110 days.

111
112 **(B) Quality Assurance.**

113
114 (1) The Contractor shall be experienced (5 years or more) and have
115 expertise in the field of spall repairs of reinforced concrete structures,
116 proper application of migrating corrosion inhibiting admixtures and
117 protective coatings, and be familiar with the materials, repair and
118 protection systems specified for this project. The manufacturers of the
119 repair and protection systems shall be members in good standing of the
120 International Concrete Repair Institute (ICRI). The Contractor will
121 employ and provide a full-time supervisor to be on site at all times
122 during the duration of the work covered in this Section. This person will
123 work very closely with the manufacturer of the repair systems, the
124 Engineer and the State's representative.

125
126 (2) Codes and Standards: Comply with all locally applicable codes,
127 regulations and requirements pertaining to this work.

128
129 (3) Rejection of Installed Work: The Engineer shall have the right to
130 reject all work which is not in compliance with the requirements of the
131 drawings and specifications.

132
133 (a) Indication of lack of skill on the part of installation and
134 application personnel shall be sufficient grounds for the
135 Engineer to reject applied products and to require its immediate
136 removal and complete reinstallation and application at no
137 additional cost to the State. Personnel lacking the appropriate
138 level of skill shall be replaced.

(b) Replacement of rejected work may require that the materials in places be stripped back to solid substrate and that special additional surface preparation and a change of surface preparation or primer materials may be required. The Contractor shall research and define these procedures and complete the additional surface preparation and reapplication of the repair materials at no extra cost to the State.

(C) Delivery, Handling, and Storage.

(1) Delivery of Materials: Deliver all materials in original tightly sealed containers or unopened packages, clearly labeled and containing manufacturer's name, labels, date of manufacture, lot number, product identification, manufacturer's instructions for mixing, and warning for handling and toxicity.

(2) Storage: Store materials at the Contractor's place of business in cool, dry and safe location out of weather in original containers or unopened packages as recommended by the manufacturer. Temperature and humidity requirements of the manufacturer are to be adhered to at all times.

(3) Handling: Handle all materials in a safe manner and in a way to avoid breaking container seals.

(4) Environmental Requirements: Container shall comply with manufacturer's recommendations as to environmental conditions under which the materials may be applied.

(D) Job Conditions.

(1) Adhere to the manufacturer's printed instructions regarding weather and climate condition restrictions on the use of all materials supplied in this section.

(2) Do not apply the materials if it is raining or if rain is imminent. Take proper precautions to protect newly placed and completed repairs from weather conditions such as strong wind or rain.

(3) Do not man scaffolds or lift equipment in strong wind or rain conditions that makes working dangerous.

(4) Protection: Precautions shall be taken to avoid damage to any surface near the work area due to spillage.

(5) Barricades: Erect temporary barricades and railings, to prevent people from entering the project area. Coordinate with the State's representative on final location and placement. The extent of barricade and railings may be adjusted by HIOSHA requirements at no extra cost to the State.

(E) **Protection of the Work.** Use all means necessary to protect the materials of this section before, during and after installation and to protect this work and the work of all other trades (prior to final approval by the State). In the event of damage, immediately make repairs and replacements necessary, subject to the approval of the State's representative at no additional cost to the State.

(F) **Executions.**

(1) All repairs shall be made in accordance with the appropriate repair application procedures (RAP) publications by the American Concrete Institute (ACI).

(2) The Contractor shall inspect all concrete surfaces around the indicated area for spalling and/or other deterioration by hammer sounding and exploratory removal methods. Areas identified for repair shall be marked on the surface and measured. All areas shall be verified by the Engineer for approval prior to removal.

(3) **Defective Concrete Removal:**

(a) General: Execute all work in an orderly and careful manner. Protect all surfaces and items to remain. The Contractor is responsible for any and all damages, repairs or replacement of existing surfaces and items to remain. Carefully cut and remove defective materials indicated or found in accordance with the contract documents. Collect all concrete chips and other debris for proper disposal offsite.

(b) Where concrete work is to be repaired, make a 1/2 – inch deep square saw cut along straight lines at 90 degree angles, 1 inch minimum beyond the edge of the damaged area or spall into sound concrete, unless noted otherwise. Use a chipping gun to produce the remainder of the 1- inch deep square cut. When a saw-cut edge cannot be achieved because of tool interferences, face of the top edge of the patch shall be chipped out to provide a vertical face a minimum of 1/2-inch to 3/4-inch depth, unless shown otherwise. The remainder of the defective concrete shall be chipped out with a chipping gun to solid sound concrete. Adjust saw-cut depth so as not to cut existing

concealed reinforcing bars. Do not extend saw-cut beyond the limits of removal work.

(c) Spalled and Loose Surfaces: Remove all loose concrete and check all spalled areas that are indicated or are obvious upon visual examination.

(d) Sounding: Inspect the remaining exterior concrete surfaces around the repair area for any other defective concrete by tapping with a hammer throughout the exterior surface of the area around the repair and listening for dull or hollow sounds. In areas where tapping does not produce a solid tone, remove loose and spalled concrete until testing produces a solid tone. Use a high frequency chipping hammer to deepen cavity.

(e) Partially exposed reinforcing bar(s) exposed when prying and chipping off concrete shall be fully exposed throughout its length, within the patch area. There shall be a minimum of 1-inch of clear space between the reinforcing bars and the remaining concrete. Any damaged or severely corroded reinforcing bars shall be removed, and new reinforcing bars installed, in accordance with the contract documents. Where less than 1-1/2" clear cover was provided to the reinforcing bar, remove enough concrete to force reinforcing bar back away from the finished exterior face of the structure to meet the minimum 1-1/2" clearance.

(f) All concrete surfaces to receive repair material shall be roughened to obtain a concrete surface profile equal to CSP 6-8 in accordance with International Concrete Repair Institute (ICRI) guidelines 310.2 to ensure proper adhesion with repair material.

(4) Surface Preparation:

(a) Cleaning: After removal of all defective concrete, remaining concrete surfaces to be patched shall be structurally sound, clean, free of dirt, powdered concrete, loose mortar particles, paint, film, protective coatings, efflorescence, laitance, and other matter detrimental to proper adhesion of the new patch materials. Work surfaces must be free of ridges, fins or sharp projections. All reinforcing bars in the repair area shall be needle gunned to remove all scale and loose rust. Any areas not patched within 48 hours after needle gunning shall be recleaned. Contractor shall inform Engineer if more than 25% of the area of the reinforcing steel has been lost due to corrosion.

(i) Immediately prior to placement of bonding agent and repair material, the repair area shall be cleaned of all dust and debris with high-pressure, oil free compressed air at a minimum of 100 psi. Patch area shall be washed with clean water so that exposed concrete surface is saturated, but with no water accumulation on the surface.

(ii) Prior to applying repair material, follow manufacturer's recommendations for preparation, bonding and application.

(5) Application of Bonding Agent:

(a) All exposed steel and concrete shall be coated with bonding agent. The coating shall be complete with no skips, pin holes or holidays around the entire surface of the exposed steel and concrete. Apply the appropriate number of coats as recommended by the manufacturer. Adhere to manufacturer's requirements for drying time and open time when applying subsequent coats and repair material.

(6) Application of Repair Materials:

(a) Repair material manufacturer's representative shall be present for initial repair to ensure proper preparation and application techniques are being utilized.

(b) Mix repair material and apply in strict conformance with the manufacturer's published instructions or job specific written instructions. If patch exceeds maximum lift thickness, extend with aggregate as recommended by manufacturer.

(c) Make batches small enough to assure placement before binder sets.

(d) For all hand, trowel placed vertical and overhead repair areas, apply repair material in layers as recommended by the manufacturer not exceeding maximum lift thickness. Work and press mortar onto the prepared substrate surfaces to ensure bond. For repair areas that require multiple lifts, the top surface of each lift must be roughened to create a mechanical bond for the following layer of repair material. All layers for each patch shall be placed on the same day. There shall be no cold joints in the field of the repair. Use vibratory floats, plates, or hand tampers to consolidate the patching material layers. Level each layer and screed the final surface unless a built-up section is

required to maintain 1 inch minimum concrete cover. Remove excess patching material on the adjacent surfaces before it hardens.

(e) Where formwork is used, the requirements of ACI 347R and Section 503 – Concrete Structures shall apply. Formwork shall be constructed true to existing lines with the repair material matching the finish lines of adjacent concrete surfaces. Repair material shall be pumped into the form in accordance with the manufacturer's recommendations. Any surface defects found after form removal shall be repaired by the Contractor at no additional cost to the State to the satisfaction of the Engineer.

(f) Curing:

(i) Immediately after the final layer of repair material has been placed and finished, curing shall begin.

(ii) Cure according to subsection 680.02(D) – Curing Compound.

(7) Field Quality Control:

(a) Sampling: As soon as the repair materials are batched, sample each batch for testing by an independent testing laboratory. Clearly identify each sample by description of patch material, batch number, intended repair location and quantity batched.

(b) Testing: Perform compressive strength tests on samples by an independent testing laboratory. If the compressive strength test results fail to meet the specified requirements after two tests, the repairs made using the batched material represented by the samples tested shall be rejected. Areas of rejected repairs shall be removed, replaced and re-tested until acceptable at no additional cost to the State. Submit a copy of the test results to the State's representative.

(c) Special Inspection:

(i) The State's representative will verify the damaged areas marked by the Contractor and the proposed sawcut perimeters prior to starting the demo work.

(ii) The State's representative will examine the repair materials at the job site to verify that the materials used

at the jobsite are the selected and approved materials referenced in the test results of design mixes or certificates of compliance.

(iii) The State's representative will examine the surface preparations, mixing, application and curing procedures of the repair materials to determine conformance with the requirements specified.

(d) In-Place Test of Repairs:

(i) The State's representative, utilizing a 2-pound hammer, will test all completed concrete spall repairs to locate hollow or ringing sounding areas. A hollow sound generally will indicate that either the repair material has not completely filled the space from which the damaged concrete was removed or that it has not adequately bonded to the concrete substrate.

(ii) The Contractor shall remove the repair material from those hollow or ringing sounding areas, prepare the surfaces of the exposed reinforcing bars and the sound concrete substrate, if necessary form and then place, cure and finish the new repair materials at no additional cost to the State. Upon completion, the repairs will be retested by the State's representative.

(8) Cleaning:

(a) Surfaces Not Involved in the Repairs: Adjacent surfaces damaged by staining left by concrete work, or other concrete materials shall be completely restored to original condition with respect to color and texture to the acceptance by the State's representative.

(b) Uncured polymer-modified repair mortar can be cleaned from tools with water. Cured polymer- modified repair mortar can only be removed mechanically.

(c) Removal:

(i) Remove debris and rubbish from the site daily. Prevent debris and rubbish from entering the Stream. Debris and rubbish shall not be allowed to accumulate on the site. Debris shall be removed and transported in a manner that will prevent spillage into the open channel,

415 onto the adjacent ground and streets.

416
417 (ii) Upon completion of the work, remove all materials,
418 tools, forming materials, catchments, work platforms,
419 refuse and debris generated by the work specified in this
420 section.

421
422 **680.04 Measurement.** The Engineer will measure the concrete barrier repairs per
423 cubic foot of repaired and accepted section.

424
425 **680.05 Payment.** The Engineer will pay for the accepted quantities of concrete
426 barrier repairs at the contract unit price per cubic foot, complete in place.

427
428 The payment will be full compensation for chipping, removing and disposing of
429 defective concrete found within the limits of the spall and patch repair work; locating
430 existing reinforcing steel bars, extending the probing to beyond the end of corrosion
431 and removing concrete around the corroded reinforcing steel; cleaning and preparing
432 concrete surfaces; removing corrosion damage from reinforcing steel; coating the
433 reinforcing steel and prepared concrete surfaces with a corrosion inhibitor epoxy
434 bonding agent; providing forms and falsework; placing, finishing and curing repair
435 materials; repairing defects; sampling and testing repair materials, and for clean-up;
436 and for furnishing equipment, tools, labor, materials and other incidentals necessary
437 to complete the work. Replacement of reinforcing steel shall be paid under Section
438 602 – Reinforcing Steel.

439
440 **Pay Item** **Pay Unit**
441
442 Concrete Barrier Repairs _____ Cubic Feet”

443
444
445
446 **END OF SECTION 680**
447

PREFERENCES FOR AREA 1

Bidders acknowledge that while preferences are considered in the evaluation of bids, the award of the contract will be in the amount of the bid offered exclusive of any preferences.

A. HAWAII BIDDER PREFERENCE

In accordance with HRS §103D-302, the Hawaii bidder preference is applicable to this solicitation for evaluation purposes only. Bidders desiring to qualify for the five per cent (5%) preference shall submit with their bid a completed *Hawaii Bidder/Offeror Preference Certification Form* (Form SPO-081) at or before the time set for receipt of bids. Certifications submitted for previous or other solicitations will not be accepted.

☐ **Yes, the Bidder elects to receive the Hawaii Bidder Preference and has included the Form SPO-081 with the bid.**

B. APPRENTICESHIP AGREEMENT PREFERENCE

In accordance with HRS §103-55.6, the estimated value of this public works contract is \$250,000 or more and the apprenticeship agreement preference is applicable to this solicitation for evaluation purposes only. Bidders desiring to qualify for the five per cent (5%) preference shall submit with their bid a complete, valid CERTIFICATION OF BIDDER'S PARTICIPATION IN APPROVED APPRENTICESHIP PROGRAM UNDER ACT 17 (Certification Form 1) *for each apprenticeable trade* the Bidder will employ on the project.

☐ **Yes, the Bidder elects to receive the Apprenticeship Agreement Preference and has attached Certification Form(s) 1 for each apprenticeable trade the Bidder will employ for this project (excluding subcontractors).**

By submission of this offer, the Bidder certifies that it has indicated **all apprenticeable trades that Bidder will employ** for this project (excluding subcontractors) by listing the applicable trades below:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

(Attach additional sheet if necessary.)

Form 1 Required. Failure to submit a valid Form 1 with the bid for every apprenticeable trade that Bidder will employ on the project will result in the preference being denied, regardless of whether the trade is listed above. If a Form 1 is submitted for a trade that is not listed above, the Form 1 will take

precedence over the listing and may be used to qualify Bidder for the preference.

Form 2 Required. If awarded the contract with the Apprenticeship Agreement Preference applied, then for the duration of the contract, the Bidder **shall** certify each month that work is being conducted on the project that the Contractor continues to be a participant in the relevant apprenticeship program for each trade it employs. Monthly certification shall be made on the Certification Form 2 and submitted to the HDOT.

Failure to comply with the requirements of the Apprenticeship Agreement Preference program will subject the Contractor to sanctions pursuant to HRS §103-55.6.

C. HAWAII PRODUCTS PREFERENCE

Hawaii Products Preference shall not apply to this solicitation.

D. RECYCLED PRODUCT PREFERENCE

Recycled Product Preference shall not apply to this solicitation.



STATE OF HAWAII
Hawaii Bidder/Offeror Preference
Certification Form
(As Defined in HRS 103D-1001)
AREA 1

I, _____, _____ of
(Authorized Officer's Name) (Office or Position Held)

_____, certify the following:
(Name of Bidder/Offeror)

- (1) That the Bidder/Offeror holds a valid commercial place of business located in the State of Hawaii at the following address:

and that the above-named office was opened on the following date: _____,

and has been staffed by the Bidder/Offeror or an employee of the Bidder/Offeror for not less than two (2) consecutive years immediately preceding the time and date set for the opening of bids or receipt of proposals;

- (2) That the bid or proposal in response to IFB/RFP No. _____, is submitted under the name under which the Bidder/Offeror is authorized to do business in the State;
- (3) That not less than fifty-one percent (51%) of the total direct labor hours required for performance of the contract will be performed within the State; and
- (4) If the Bidder/Offeror is a joint venture, the Bidder/Offeror is composed entirely of parties meeting the requirements of paragraphs (1), (2), and (3).

I certify under penalty of perjury that the above statements are true. I agree to maintain the above qualifications throughout contract performance; any changes in eligibility shall be reported to the Contract Administrator or purchasing agency's contact person identified in the RFP/IFB. I acknowledge that failure to maintain the above qualifications triggers a price adjustment equal to the value of the preference applied and may constitute cause for debarment under HRS §103D-702.

Signature of Authorized Officer

Print Name and Title

Date

PROPOSAL SCHEDULE – AREA 1					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.1000	Installation, Maintenance, Monitoring, and Removal of BMP	FA	FA	FA	\$50,000.00
602.1000	Reinforcing Steel for Concrete Barrier Repairs	200	LB	\$ _____	\$ _____
621.1000	Invasive Species Management	FA	FA	FA	\$10,000.00
634.1000	4-Inch Portland Cement Concrete Sidewalk	45	SY	\$ _____	\$ _____
634.1010	Removing Existing PCC Sidewalk	45	SY	\$ _____	\$ _____
638.1000	Curb, Type 2D	35	LF	\$ _____	\$ _____
638.1010	Curb and Gutter, Type 2DG	35	LF	\$ _____	\$ _____
638.1030	Removing Existing Curb	35	LF	\$ _____	\$ _____
638.1040	Removing Existing Curb and Gutter	35	LF	\$ _____	\$ _____
645.1000	Traffic Control (Interstate Freeway)	1	Lane Mile	\$ _____	\$ _____
645.1001	Traffic Control (State Highway)	1	Lane Mile	\$ _____	\$ _____
645.1002	Electronic Message Board (per day)	45	EA	\$ _____	\$ _____
645.1003	Additional Police Officers, Traffic Control Devices, and Advertisement	FA	FA	FA	\$20,000.00
650.1010	Curb Ramp, Type A	1	EA	\$ _____	\$ _____
650.1020	Curb Ramp, Type B	1	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 1					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
650.1021	Curb Ramp, Type B Modified	1	EA	\$_____	\$_____
650.1030	Curb Ramp, Type C	1	EA	\$_____	\$_____
650.1031	Curb Ramp, Type C Modified	1	EA	\$_____	\$_____
650.1040	Curb Ramp, Type D	1	EA	\$_____	\$_____
650.1041	Curb Ramp, Type D Modified	1	EA	\$_____	\$_____
650.1050	Curb Ramp, Type E	1	EA	\$_____	\$_____
650.1100	Detectable Warning Mat	1	EA	\$_____	\$_____
671.1000	Protection of Endangered Species	FA	FA	FA	\$50,000.00
680.1100	Concrete Barrier Repairs – 3” or Greater Remaining	50	CF	\$_____	\$_____
680.1200	Concrete Barrier Repairs – Less than 3” Remaining	50	CF	\$_____	\$_____
680.1300	Concrete Barrier Repairs – Full Width	50	CF	\$_____	\$_____
Total Amount for Comparison of Bids – AREA 1 \$_____ NOTE: Bidders shall complete all unit prices and amounts. Failure to do so shall be grounds for rejection of bid.					

PREFERENCES FOR AREA 2

Bidders acknowledge that while preferences are considered in the evaluation of bids, the award of the contract will be in the amount of the bid offered exclusive of any preferences.

A. HAWAII BIDDER PREFERENCE

In accordance with HRS §103D-302, the Hawaii bidder preference is applicable to this solicitation for evaluation purposes only. Bidders desiring to qualify for the five per cent (5%) preference shall submit with their bid a completed *Hawaii Bidder/Offeror Preference Certification Form* (Form SPO-081) at or before the time set for receipt of bids. Certifications submitted for previous or other solicitations will not be accepted.

☐ **Yes, the Bidder elects to receive the Hawaii Bidder Preference and has included the Form SPO-081 with the bid.**

B. APPRENTICESHIP AGREEMENT PREFERENCE

In accordance with HRS §103-55.6, the estimated value of this public works contract is \$250,000 or more and the apprenticeship agreement preference is applicable to this solicitation for evaluation purposes only. Bidders desiring to qualify for the five per cent (5%) preference shall submit with their bid a complete, valid CERTIFICATION OF BIDDER'S PARTICIPATION IN APPROVED APPRENTICESHIP PROGRAM UNDER ACT 17 (Certification Form 1) *for each apprenticeable trade* the Bidder will employ on the project.

☐ **Yes, the Bidder elects to receive the Apprenticeship Agreement Preference and has attached Certification Form(s) 1 for each apprenticeable trade the Bidder will employ for this project (excluding subcontractors).**

By submission of this offer, the Bidder certifies that it has indicated **all apprenticeable trades that Bidder will employ** for this project (excluding subcontractors) by listing the applicable trades below:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

(Attach additional sheet if necessary.)

Form 1 Required. Failure to submit a valid Form 1 with the bid for every apprenticeable trade that Bidder will employ on the project will result in the preference being denied, regardless of whether the trade is listed above. If a Form 1 is submitted for a trade that is not listed above, the Form 1 will take

precedence over the listing and may be used to qualify Bidder for the preference.

Form 2 Required. If awarded the contract with the Apprenticeship Agreement Preference applied, then for the duration of the contract, the Bidder **shall** certify each month that work is being conducted on the project that the Contractor continues to be a participant in the relevant apprenticeship program for each trade it employs. Monthly certification shall be made on the Certification Form 2 and submitted to the HDOT.

Failure to comply with the requirements of the Apprenticeship Agreement Preference program will subject the Contractor to sanctions pursuant to HRS §103-55.6.

C. HAWAII PRODUCTS PREFERENCE

Hawaii Products Preference shall not apply to this solicitation.

D. RECYCLED PRODUCT PREFERENCE

Recycled Product Preference shall not apply to this solicitation.



STATE OF HAWAII
Hawaii Bidder/Offoror Preference
Certification Form
(As Defined in HRS 103D-1001)
AREA 2

I, _____, _____ of
(Authorized Officer's Name) (Office or Position Held)

_____, certify the following:
(Name of Bidder/Offoror)

- (1) That the Bidder/Offoror holds a valid commercial place of business located in the State of Hawaii at the following address:

and that the above-named office was opened on the following date: _____,
and has been staffed by the Bidder/Offoror or an employee of the Bidder/Offoror for not less than two (2) consecutive years immediately preceding the time and date set for the opening of bids or receipt of proposals;

- (2) That the bid or proposal in response to IFB/RFP No. _____, is submitted under the name under which the Bidder/Offoror is authorized to do business in the State;
- (3) That not less than fifty-one percent (51%) of the total direct labor hours required for performance of the contract will be performed within the State; and
- (4) If the Bidder/Offoror is a joint venture, the Bidder/Offoror is composed entirely of parties meeting the requirements of paragraphs (1), (2), and (3).

I certify under penalty of perjury that the above statements are true. I agree to maintain the above qualifications throughout contract performance; any changes in eligibility shall be reported to the Contract Administrator or purchasing agency's contact person identified in the RFP/IFB. I acknowledge that failure to maintain the above qualifications triggers a price adjustment equal to the value of the preference applied and may constitute cause for debarment under HRS §103D-702.

Signature of Authorized Officer

Print Name and Title

Date

PROPOSAL SCHEDULE – AREA 2					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.2000	Installation, Maintenance, Monitoring, and Removal of BMP	FA	FA	FA	\$50,000.00
602.2000	Reinforcing Steel for Concrete Barrier Repairs	200	LB	\$ _____	\$ _____
621.2000	Invasive Species Management	FA	FA	FA	\$10,000.00
634.2000	4-Inch Portland Cement Concrete Sidewalk	45	SY	\$ _____	\$ _____
634.2010	Removing Existing PCC Sidewalk	45	SY	\$ _____	\$ _____
638.2000	Curb, Type 2D	35	LF	\$ _____	\$ _____
638.2010	Curb and Gutter, Type 2DG	35	LF	\$ _____	\$ _____
638.2030	Removing Existing Curb	35	LF	\$ _____	\$ _____
638.2040	Removing Existing Curb and Gutter	35	LF	\$ _____	\$ _____
645.2000	Traffic Control (Interstate Freeway)	1	Lane Mile	\$ _____	\$ _____
645.2001	Traffic Control (State Highway)	1	Lane Mile	\$ _____	\$ _____
645.2002	Electronic Message Board (per day)	45	EA	\$ _____	\$ _____
645.2003	Additional Police Officers, Traffic Control Devices, and Advertisement	FA	FA	FA	\$20,000.00
650.2010	Curb Ramp, Type A	1	EA	\$ _____	\$ _____
650.2020	Curb Ramp, Type B	1	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 2

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
650.2021	Curb Ramp, Type B Modified	1	EA	\$_____	\$_____
650.2030	Curb Ramp, Type C	1	EA	\$_____	\$_____
650.2031	Curb Ramp, Type C Modified	1	EA	\$_____	\$_____
650.2040	Curb Ramp, Type D	1	EA	\$_____	\$_____
650.2041	Curb Ramp, Type D Modified	1	EA	\$_____	\$_____
650.2050	Curb Ramp, Type E	1	EA	\$_____	\$_____
650.2100	Detectable Warning Mat	1	EA	\$_____	\$_____
671.2000	Protection of Endangered Species	FA	FA	FA	\$50,000.00
680.2100	Concrete Barrier Repairs – 3” or Greater Remaining	50	CF	\$_____	\$_____
680.2200	Concrete Barrier Repairs – Less than 3” Remaining	50	CF	\$_____	\$_____
680.2300	Concrete Barrier Repairs – Full Width	50	CF	\$_____	\$_____

Total Amount for Comparison of Bids – AREA 2 \$_____

NOTE: Bidders shall complete all unit prices and amounts. Failure to do so shall be grounds for rejection of bid.

PREFERENCES FOR AREA 3

Bidders acknowledge that while preferences are considered in the evaluation of bids, the award of the contract will be in the amount of the bid offered exclusive of any preferences.

A. HAWAII BIDDER PREFERENCE

In accordance with HRS §103D-302, the Hawaii bidder preference is applicable to this solicitation for evaluation purposes only. Bidders desiring to qualify for the five per cent (5%) preference shall submit with their bid a completed *Hawaii Bidder/Offeror Preference Certification Form* (Form SPO-081) at or before the time set for receipt of bids. Certifications submitted for previous or other solicitations will not be accepted.

☐ **Yes, the Bidder elects to receive the Hawaii Bidder Preference and has included the Form SPO-081 with the bid.**

B. APPRENTICESHIP AGREEMENT PREFERENCE

In accordance with HRS §103-55.6, the estimated value of this public works contract is \$250,000 or more and the apprenticeship agreement preference is applicable to this solicitation for evaluation purposes only. Bidders desiring to qualify for the five per cent (5%) preference shall submit with their bid a complete, valid CERTIFICATION OF BIDDER'S PARTICIPATION IN APPROVED APPRENTICESHIP PROGRAM UNDER ACT 17 (Certification Form 1) *for each apprenticeable trade* the Bidder will employ on the project.

☐ **Yes, the Bidder elects to receive the Apprenticeship Agreement Preference and has attached Certification Form(s) 1 for each apprenticeable trade the Bidder will employ for this project (excluding subcontractors).**

By submission of this offer, the Bidder certifies that it has indicated **all apprenticeable trades that Bidder will employ** for this project (excluding subcontractors) by listing the applicable trades below:

(Attach additional sheet if necessary.)

Form 1 Required. Failure to submit a valid Form 1 with the bid for every apprenticeable trade that Bidder will employ on the project will result in the preference being denied, regardless of whether the trade is listed above. If a Form 1 is submitted for a trade that is not listed above, the Form 1 will take

precedence over the listing and may be used to qualify Bidder for the preference.

Form 2 Required. If awarded the contract with the Apprenticeship Agreement Preference applied, then for the duration of the contract, the Bidder **shall** certify each month that work is being conducted on the project that the Contractor continues to be a participant in the relevant apprenticeship program for each trade it employs. Monthly certification shall be made on the Certification Form 2 and submitted to the HDOT.

Failure to comply with the requirements of the Apprenticeship Agreement Preference program will subject the Contractor to sanctions pursuant to HRS §103-55.6.

C. HAWAII PRODUCTS PREFERENCE

Hawaii Products Preference shall not apply to this solicitation.

D. RECYCLED PRODUCT PREFERENCE

Recycled Product Preference shall not apply to this solicitation.



STATE OF HAWAII
Hawaii Bidder/Offoror Preference
Certification Form
(As Defined in HRS 103D-1001)
AREA 3

I, _____, _____ of
(Authorized Officer's Name) (Office or Position Held)

_____, certify the following:
(Name of Bidder/Offoror)

- (1) That the Bidder/Offoror holds a valid commercial place of business located in the State of Hawaii at the following address:

and that the above-named office was opened on the following date: _____,
and has been staffed by the Bidder/Offoror or an employee of the Bidder/Offoror for not less than two (2) consecutive years immediately preceding the time and date set for the opening of bids or receipt of proposals;

- (2) That the bid or proposal in response to IFB/RFP No. _____, is submitted under the name under which the Bidder/Offoror is authorized to do business in the State;
- (3) That not less than fifty-one percent (51%) of the total direct labor hours required for performance of the contract will be performed within the State; and
- (4) If the Bidder/Offoror is a joint venture, the Bidder/Offoror is composed entirely of parties meeting the requirements of paragraphs (1), (2), and (3).

I certify under penalty of perjury that the above statements are true. I agree to maintain the above qualifications throughout contract performance; any changes in eligibility shall be reported to the Contract Administrator or purchasing agency's contact person identified in the RFP/IFB. I acknowledge that failure to maintain the above qualifications triggers a price adjustment equal to the value of the preference applied and may constitute cause for debarment under HRS §103D-702.

Signature of Authorized Officer

Print Name and Title

Date

PROPOSAL SCHEDULE – AREA 3					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.3000	Installation, Maintenance, Monitoring, and Removal of BMP	FA	FA	FA	\$50,000.00
602.3000	Reinforcing Steel for Concrete Barrier Repairs	200	LB	\$ _____	\$ _____
621.3000	Invasive Species Management	FA	FA	FA	\$10,000.00
634.3000	4-Inch Portland Cement Concrete Sidewalk	45	SY	\$ _____	\$ _____
634.3010	Removing Existing PCC Sidewalk	45	SY	\$ _____	\$ _____
638.3000	Curb, Type 2D	35	LF	\$ _____	\$ _____
638.3010	Curb and Gutter, Type 2DG	35	LF	\$ _____	\$ _____
638.3030	Removing Existing Curb	35	LF	\$ _____	\$ _____
638.3040	Removing Existing Curb and Gutter	35	LF	\$ _____	\$ _____
645.3000	Traffic Control (Interstate Freeway)	1	Lane Mile	\$ _____	\$ _____
645.3001	Traffic Control (State Highway)	1	Lane Mile	\$ _____	\$ _____
645.3002	Electronic Message Board (per day)	45	EA	\$ _____	\$ _____
645.3003	Additional Police Officers, Traffic Control Devices, and Advertisement	FA	FA	FA	\$20,000.00
650.3010	Curb Ramp, Type A	1	EA	\$ _____	\$ _____
650.3020	Curb Ramp, Type B	1	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 3					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
650.3021	Curb Ramp, Type B Modified	1	EA	\$_____	\$_____
650.3030	Curb Ramp, Type C	1	EA	\$_____	\$_____
650.3031	Curb Ramp, Type C Modified	1	EA	\$_____	\$_____
650.3040	Curb Ramp, Type D	1	EA	\$_____	\$_____
650.3041	Curb Ramp, Type D Modified	1	EA	\$_____	\$_____
650.3050	Curb Ramp, Type E	1	EA	\$_____	\$_____
650.3100	Detectable Warning Mat	1	EA	\$_____	\$_____
671.3000	Protection of Endangered Species	FA	FA	FA	\$50,000.00
680.3100	Concrete Barrier Repairs – 3” or Greater Remaining	50	CF	\$_____	\$_____
680.3200	Concrete Barrier Repairs – Less than 3” Remaining	50	CF	\$_____	\$_____
680.3300	Concrete Barrier Repairs – Full Width	50	CF	\$_____	\$_____
Total Amount for Comparison of Bids – AREA 3 \$_____ NOTE: Bidders shall complete all unit prices and amounts. Failure to do so shall be grounds for rejection of bid.					

PREFERENCES FOR AREA 4

Bidders acknowledge that while preferences are considered in the evaluation of bids, the award of the contract will be in the amount of the bid offered exclusive of any preferences.

A. HAWAII BIDDER PREFERENCE

In accordance with HRS §103D-302, the Hawaii bidder preference is applicable to this solicitation for evaluation purposes only. Bidders desiring to qualify for the five per cent (5%) preference shall submit with their bid a completed *Hawaii Bidder/Offeror Preference Certification Form* (Form SPO-081) at or before the time set for receipt of bids. Certifications submitted for previous or other solicitations will not be accepted.

☐ **Yes, the Bidder elects to receive the Hawaii Bidder Preference and has included the Form SPO-081 with the bid.**

B. APPRENTICESHIP AGREEMENT PREFERENCE

In accordance with HRS §103-55.6, the estimated value of this public works contract is \$250,000 or more and the apprenticeship agreement preference is applicable to this solicitation for evaluation purposes only. Bidders desiring to qualify for the five per cent (5%) preference shall submit with their bid a complete, valid CERTIFICATION OF BIDDER'S PARTICIPATION IN APPROVED APPRENTICESHIP PROGRAM UNDER ACT 17 (Certification Form 1) *for each apprenticeable trade* the Bidder will employ on the project.

☐ **Yes, the Bidder elects to receive the Apprenticeship Agreement Preference and has attached Certification Form(s) 1 for each apprenticeable trade the Bidder will employ for this project (excluding subcontractors).**

By submission of this offer, the Bidder certifies that it has indicated **all apprenticeable trades that Bidder will employ** for this project (excluding subcontractors) by listing the applicable trades below:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

(Attach additional sheet if necessary.)

Form 1 Required. Failure to submit a valid Form 1 with the bid for every apprenticeable trade that Bidder will employ on the project will result in the preference being denied, regardless of whether the trade is listed above. If a Form 1 is submitted for a trade that is not listed above, the Form 1 will take

precedence over the listing and may be used to qualify Bidder for the preference.

Form 2 Required. If awarded the contract with the Apprenticeship Agreement Preference applied, then for the duration of the contract, the Bidder **shall** certify each month that work is being conducted on the project that the Contractor continues to be a participant in the relevant apprenticeship program for each trade it employs. Monthly certification shall be made on the Certification Form 2 and submitted to the HDOT.

Failure to comply with the requirements of the Apprenticeship Agreement Preference program will subject the Contractor to sanctions pursuant to HRS §103-55.6.

C. HAWAII PRODUCTS PREFERENCE

Hawaii Products Preference shall not apply to this solicitation.

D. RECYCLED PRODUCT PREFERENCE

Recycled Product Preference shall not apply to this solicitation.



STATE OF HAWAII
Hawaii Bidder/Offeror Preference
Certification Form
(As Defined in HRS 103D-1001)
AREA 4

I, _____, _____ of
(Authorized Officer's Name) (Office or Position Held)

_____, certify the following:
(Name of Bidder/Offeror)

- (1) That the Bidder/Offeror holds a valid commercial place of business located in the State of Hawaii at the following address:

and that the above-named office was opened on the following date: _____,
and has been staffed by the Bidder/Offeror or an employee of the Bidder/Offeror for not less than two (2) consecutive years immediately preceding the time and date set for the opening of bids or receipt of proposals;

- (2) That the bid or proposal in response to IFB/RFP No. _____, is submitted under the name under which the Bidder/Offeror is authorized to do business in the State;
- (3) That not less than fifty-one percent (51%) of the total direct labor hours required for performance of the contract will be performed within the State; and
- (4) If the Bidder/Offeror is a joint venture, the Bidder/Offeror is composed entirely of parties meeting the requirements of paragraphs (1), (2), and (3).

I certify under penalty of perjury that the above statements are true. I agree to maintain the above qualifications throughout contract performance; any changes in eligibility shall be reported to the Contract Administrator or purchasing agency's contact person identified in the RFP/IFB. I acknowledge that failure to maintain the above qualifications triggers a price adjustment equal to the value of the preference applied and may constitute cause for debarment under HRS §103D-702.

Signature of Authorized Officer

Print Name and Title

Date

PROPOSAL SCHEDULE – AREA 4					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.4000	Installation, Maintenance, Monitoring, and Removal of BMP	FA	FA	FA	\$50,000.00
602.4000	Reinforcing Steel for Concrete Barrier Repairs	200	LB	\$ _____	\$ _____
621.4000	Invasive Species Management	FA	FA	FA	\$10,000.00
634.4000	4-Inch Portland Cement Concrete Sidewalk	45	SY	\$ _____	\$ _____
634.4010	Removing Existing PCC Sidewalk	45	SY	\$ _____	\$ _____
638.4000	Curb, Type 2D	35	LF	\$ _____	\$ _____
638.4010	Curb and Gutter, Type 2DG	35	LF	\$ _____	\$ _____
638.4030	Removing Existing Curb	35	LF	\$ _____	\$ _____
638.4040	Removing Existing Curb and Gutter	35	LF	\$ _____	\$ _____
645.4000	Traffic Control (Interstate Freeway)	1	Lane Mile	\$ _____	\$ _____
645.4001	Traffic Control (State Highway)	1	Lane Mile	\$ _____	\$ _____
645.4002	Electronic Message Board (per day)	45	EA	\$ _____	\$ _____
645.4003	Additional Police Officers, Traffic Control Devices, and Advertisement	FA	FA	FA	\$20,000.00
650.4010	Curb Ramp, Type A	1	EA	\$ _____	\$ _____
650.4020	Curb Ramp, Type B	1	EA	\$ _____	\$ _____

PROPOSAL SCHEDULE – AREA 4

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
650.4021	Curb Ramp, Type B Modified	1	EA	\$_____	\$_____
650.4030	Curb Ramp, Type C	1	EA	\$_____	\$_____
650.4031	Curb Ramp, Type C Modified	1	EA	\$_____	\$_____
650.4040	Curb Ramp, Type D	1	EA	\$_____	\$_____
650.4041	Curb Ramp, Type D Modified	1	EA	\$_____	\$_____
650.4050	Curb Ramp, Type E	1	EA	\$_____	\$_____
650.4100	Detectable Warning Mat	1	EA	\$_____	\$_____
671.4000	Protection of Endangered Species	FA	FA	FA	\$50,000.00
680.4100	Concrete Barrier Repairs – 3” or Greater Remaining	50	CF	\$_____	\$_____
680.4200	Concrete Barrier Repairs – Less than 3” Remaining	50	CF	\$_____	\$_____
680.4300	Concrete Barrier Repairs – Full Width	50	CF	\$_____	\$_____

Total Amount for Comparison of Bids – AREA 4 \$_____

NOTE: Bidders shall complete all unit prices and amounts. Failure to do so shall be grounds for rejection of bid.

PROPOSAL SCHEDULE – SUMMARY	
	AMOUNT
TOTAL AMOUNT FOR COMPARISON OF BIDS – AREA 1	\$ _____
TOTAL AMOUNT FOR COMPARISON OF BIDS – AREA 2	\$ _____
TOTAL AMOUNT FOR COMPARISON OF BIDS – AREA 3	\$ _____
TOTAL AMOUNT FOR COMPARISON OF BIDS – AREA 4	\$ _____

1 **PROPOSAL SCHEDULE**

2
3 The bidder is directed to Subsection 105.16 – Subcontracts.

4
5 The bidder is directed to Section 717 – Cullet and Cullet-Made Materials
6 regarding recycling of waste glass.

7
8 For each area, the “Total Amount for Comparison of Bids” shall be used to
9 determine the lowest responsible bidder.

10
11 Notes:

- 12
13 1. Bids shall include all Federal, State, County and other applicable taxes and
14 fees.
15
16 2. Bidders shall complete all unit prices and amounts. Failure to do so shall
17 be grounds for rejection of bid.
18
19 3. If a discrepancy occurs between unit bid price and the bid price, the unit bid
20 price shall govern.
21

- 22 4. **Bidders shall submit and upload the complete proposal to HlePRO**
23 **prior to the bid opening date and time. Proposals received after said**
24 **due date and time shall not be considered. Any additional support**
25 **documents explicitly designated as confidential and/or proprietary**
26 **shall be uploaded as a separate file to HlePRO. Bidders shall not**
27 **include confidential and/or proprietary documents with the proposal.**
28 **The record of each bidder and respective bid shall be open to public**
29 **inspection. Original (wet ink, hard copy) proposal documents are not**
30 **required to be submitted. Contract award shall be based on evaluation**
31 **of proposals submitted and uploaded to HlePRO.**
32 **FAILURE TO UPLOAD THE COMPLETE PROPOSAL TO HlePRO**
33 **SHALL BE GROUNDS FOR REJECTION OF THE BID.**
34

35 If there is a conflict between the specification document and the HlePRO
36 solicitation, the specifications shall govern and control, unless otherwise
37 specified.

- 38
39 5. Bid prices are for travel time, mileage, and furnishing all labor, tools, traffic
40 controls, all applicable taxes, fees, and equipment necessary for all work
41 shown and called for in accordance with the true intent and meaning of the
42 specifications.
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44 6. Bidder may bid on any or all areas. To be considered, bidder shall submit
45 a bid for all items within an area. Separate contracts will be awarded for
46 each area, but if a bidder is determined the lowest bidder for multiple areas,
47 one combined contract will be awarded.

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7. Any contract which is awarded shall be an open-ended contract since the exact value of work to be performed during the contract period cannot be determined beforehand. The unit price for each item of work on any particular work order shall be that which corresponds to the quantity of work for that item actually performed for each work order.
8. The sum of all work and materials required to perform the required repairs are issued on a "single work order". A single work order shall be a work order submitted by the Contractor for work that can be performed by the Contractor without relocating a distance of more than 100 feet between any two adjacent repair locations.
9. The quantities on the proposal schedule are for bidding purposes only, and this is no guarantee of the quantity of work that will be issued.

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS**

PRE-BID MEETING MINUTES

Project Title: Sidewalk, Curb and Gutter, Concrete Median
Barrier Repairs at Various Locations
Island of Oahu
Project No.: HWY-OM-2027-38
Date/Time: Tuesday, September 8, 2026, at 10:00 a.m. Hawaii Standard Time
(HST)
Place: Pre-bid meeting was held virtually on Microsoft Teams.

Attendees:

Name	Organization/ Company	Contact Information
Jessie Makainai	Makainai Construction LLC	(808) 369-4244 makainaiconstructionllc@gmail.com
Eric Kaleimamahu	2K Construction	(808)382-3150 Eric@2Kconstruction.com
Steve Park	Kaikor Construction Group, Inc.	(808)-954-7265 spark@kaikor.com
Jillian Chen	HDOT HWY-DD	(808) 692-8439 jillian.m.chen@hawaii.gov
Klara Agaran	HDOT HWY-DD	(808) 692-8441 klaraerika.agaran@hawaii.gov

Items of Discussion:

- A. Jillian Chen (HDOT HWY-DD) called the meeting to order at 10:03 a.m. and noted the following:
1. Anything said at the meeting was for clarification only. The bid documents shall govern over anything said in the meeting and discrepancies shall be clarified by addendum.
 2. The scope of work consists of furnishing all labor, necessary equipment, materials, and traffic control to repair severely cracked, popped up and depressed reinforced Portland cement, concrete sidewalks, curb and/or gutters, and severely damaged concrete median barriers on the Island of Oahu on an open end, “as needed” basis.

3. To be eligible for award, bidders must possess a valid State of Hawaii General Engineering “A” or General Building “B” or Specialty Contractor’s “C-31” or” C-31a” license at the time of bidding.
4. Bidders were advised to thoroughly review Special Provision Section 102 – Bidding Requirements and Conditions.
5. Bidders are required to submit a proposal guaranty amount of 5 percent of the amount bid per area (see Special Provisions Section 102.08 and proposal page P-3).
6. The contract time is 24 months beginning from the Notice to Proceed issued by HDOT. There is an option to extend for an additional three 12-month periods without re-bidding, upon mutual agreement.
7. Bidders may bid on any or all areas. Separate contracts will be awarded for each area, but if a bidder is determined the lowest bidder for multiple areas, one combined contract will be awarded.

B. Bidders were invited to ask questions.

1. No questions were asked.

C. The following reminders were given.

1. All requests for information (RFIs) must be submitted in writing through HiePRO by **Friday, September 11, 2026, at 2:00 p.m. HST**. Any questions received after the deadline will not be addressed and verbal RFIs will not receive a response.
2. Bid opening is currently scheduled for **Friday, September 25, 2026, at 2:00 p.m. HST**. Bidders shall submit and upload their complete proposals to HiePRO prior to the scheduled bid opening date and time. Any additional support documents explicitly designated as confidential and/or proprietary shall be uploaded as a separate file to HiePRO. Failure to upload the complete proposal to HiePRO shall be grounds for rejection of the bid. Proposals received after said due date and time shall not be considered.

D. The meeting concluded at 10:08 a.m.

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS**

RESPONSES TO REQUESTS FOR INFORMATION

Project Title: Sidewalk, Curb and Gutter, Concrete Median Barrier Repairs at Various Locations, Island of Oahu

Project No.: HWY-OM-2027-38

Solicitation No.: B27000319

Prospective bidders had submitted RFI in HiePRO. Questions and responses are as follows:

1. **Please clarify whether there is a minimum dollar value and/or minimum quantity of work that will be issued under an individual work order. If there is no minimum, please clarify how mobilization, demobilization, equipment transportation, concrete short-load/minimum-load charges, and other fixed costs associated with an individual work order are compensated.**

There is no minimum dollar value or quantity of work that is issued under an individual work order. Refer to page P-28 of the revised proposal schedule in Addendum No. 1. Work is issued on an as-needed basis. The Contractor needs to build these incidental costs into their bid prices.

2. **Please clarify the requirement in Subsection 104.01 that the Contractor “respond” to a work request within 48 hours after notification. Does “respond” mean acknowledgment/acceptance and coordination of the work request, or must the Contractor physically mobilize and commence work within 48 hours?**

The Contractor must acknowledge and coordinate the work request within 48 hours. The Contractor does not have to physically mobilize and commence work within 48 hours.

3. **For each individual work order, please clarify whether required traffic control, including setup/removal, signs, devices, arrow boards, message boards and personnel, will be measured and paid under the applicable Section 645 bid items, or whether any traffic control is considered incidental to the concrete repair items.**

All traffic control shall be paid under the traffic control line items in Special Provisions Section 645. The section has been revised, and a pay item has been added. See revised

Special Provisions Section 645 and proposal schedule in Addendum No. 1.

4. **Please confirm whether the greater-than-15-percent quantity adjustment provision of Subsection 102.04 applies separately to each unit-price item within each Area under this open-ended requirements contract. If actual quantities ordered are more than 15 percent above or below the Proposal Schedule estimated quantity, please confirm whether the Contractor may request a price adjustment pursuant to Subsection 104.06.**

The section has been revised. See revised Special Provisions Section 102 in Addendum No. 1. The quantities in the proposal schedule are for bidding purposes only. Refer to Page P-28 of the revised proposal schedule in Addendum No. 1.

5. **Please clarify the administration and payment provisions for the BMP (\$50,000), Invasive Species Management (\$10,000), and Protection of Endangered Species (\$50,000) allowance items included in each Area Proposal Schedule. Please identify what costs may be charged against each allowance, required supporting documentation, whether Contractor overhead and profit are permitted on authorized expenditures, and the treatment of unused allowance balances.**

For compensation of force account items, refer to the Standard Specifications Section 109.06.

6. **If one Contractor is awarded more than one Area, may HDOT issue work orders simultaneously in multiple Areas? If so, is the Contractor required to mobilize and perform those work orders concurrently, and does the 48-hour response requirement apply independently to each simultaneous work request?**

HDOT can issue work orders simultaneously in multiple areas. However, the Contractor does not have to perform the work concurrently but must acknowledge and start coordinating the work request.

7. **Please clarify whether individual work orders may require nighttime, weekend, or holiday work. If so, please clarify whether the contract unit prices are intended to include all additional labor, equipment, and operational costs associated with such work.**

Some locations may require nighttime work. Refer to Special Provisions Section 110.04. HDOT will not ask the Contractor to work on weekends or holidays.

8. **Please clarify whether a single work order may include multiple noncontiguous repair locations. If so, please clarify how traffic control, mobilization, and other location-specific costs will be measured and compensated for each separate location.**

Typically, a work order will include only one repair location. However, see revised proposal schedule page P-28 note 8 in Addendum No. 1 in regard to this question.

9. **Please clarify how the Contractor will be compensated if the Department cancels, postpones, or materially reduces an authorized work order after the Contractor has mobilized, committed materials, scheduled traffic control, or otherwise incurred costs in preparation for the work.**

If this occurs, HDOT will negotiate with the Contractor for fair payment of costs incurred.

10. **Please clarify which required preconstruction submittals are to be submitted once following contract award and which are required separately for each individual work order.**

HDOT reserves the right to ask for the submittals. Please bid accordingly.

11. **For materials and products that remain unchanged throughout the contract, including concrete mix designs, reinforcing steel, curing materials, repair materials, and traffic-control devices, please confirm whether an approved submittal remains valid for the contract duration or must be resubmitted for each individual work order.**

Generally speaking, approved submittals for materials and products that remain unchanged throughout the contract will be valid throughout the contract period. However, Standard Specifications Section 106 as amended by the Special Provisions shall be followed. Reinforcing steel, for example, is submitted for a specific batch. New submittals are needed for different batches.

12. **We are submitting TuffTex Materials products available for use in project B27000319 HWY-OM-2027-38 as mentioned in the solicitation**

Regarding submitted product material, TuffTex Materials RepPoxxy BAC, approved product has been included in revised Special Provisions Section 680. See Addendum No. 1. Note that the manufacturer does not provide warranty for the product. Any defective

material must be replaced or reimbursed at no additional cost to the State per Special Provisions Section 680.

Regarding submitted product TuffTex Materials RepPatch VOX-XL, it is rejected due to insufficient information regarding permeability requirement.

Regarding submitted products TuffTex Materials RepGrout NS, RepPave Black, RepCoat TMP, and RepPoxy TMA, the solicitation does not specify any brand name products. These substitution requests are not applicable. Bidders shall ensure products used meet requirements as stated in the specifications.