

Requirements and Specifications to Construct

**Reconfigure and Resurface HIARNG Building
282 & 1898 Motor Pool Parking Lot, HIARNG
Kalaeloa**

Project: CA-XXXXXX-C

**For
The State of Hawaii, Department of Defense
Hawaii Army National Guard**

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HIARNG CFMO DPM
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RECONFIGURE & RESURFACE MOTOR POOL PARKING LOT
HIARNG 282/1898 MOTOR POOL

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SECTION 01100 - PROJECT REQUIREMENTS

PART 1 - GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Location: BLDG 282 / 1898 Motor Pool, Hawaii Army National Guard (HIARNG), Kalaeloa Base
- B. Project Identification: Reconfigure and Resurface HIARNG Building 282 & 1898 Motor Pool Parking Lot, Kalaeloa Base, Oahu.
- C. The Work includes
 - a. Earthwork
 - b. Bases
 - c. Pavements
 - d. Miscellaneous Construction
 - e. Materials
- D. Perform operations and furnish equipment, fixtures, appliances, tools, materials, related items and labor necessary to execute, complete and deliver the Work as required by the Contract Documents.
- E. The Division and Sections into which these Specifications are divided shall not be considered an accurate or complete segregation of work by trades. This also applies to work specified within each section.
- F. Contractor shall not alter the Drawings and Specifications. If an error or discrepancy is found, notify the Engineer.
- G. Specifying of interface and coordination in the various Specification sections is provided for information and convenience only. These requirements in the various sections shall complement the requirements of this Section.

1.02 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated and include incomplete sentences. Omission of words or phrases such as "the Contractor shall," "as shown on the Drawings," "a," "an," and "the" are intentional. Omitted words and phrases shall be provided by inference to form complete sentences. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred, as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates. Where devices, or items, or parts thereof are

referred to in the singular, it is intended that such reference shall apply to as many such devices, items or parts as are required to properly complete the Work.

2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - i. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
3. Abbreviations and Acronyms for Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Gale Research's "Encyclopedia of Associations" or in Columbia Books' "National Trade & Professional Associations of the U.S.."

B. Terms

1. Directed: Terms such as "directed," "requested," "authorized," "selected," "approved," "required," and "permitted" mean directed by Engineer, requested by Engineer, and similar phrases.
2. Indicated: The term "indicated" refers to graphic representation, notes, or schedules on Drawings or to other paragraphs or schedules in Specifications and similar requirements in the Contract Documents. Terms such as "shown," "noted," "scheduled," and "specified" are used to help the user locate the reference.
3. Furnish: The term "furnish" means to supply and deliver to project site, ready for unloading, unpacking, assembly, and similar operations.
4. Install: The term "install" describes operations at project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
5. Provide: The terms "provide" or "provides" means to furnish and install, complete and ready for the intended use.
6. Installer: An installer is the Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-Subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
7. Submit: Terms such as "submit," "furnish," "provide," and "prepare" and similar phrases in the context of a submittal, means to submit to the Engineer.

8. Engineer: The Engineer is Jim Barbour or delegated Project Manager from the State of Hawaii, Department of Defense for this project.
9. Department: The Department is the State of Hawaii, Department of Defense.

C. Industry Standards

1. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
 2. Publication Dates: Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.
 3. Conflicting Requirements: If compliance with 2 or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to Engineer for a decision before proceeding.
- D. All make, model, manufacturer, and products called for are assumed to be followed by "or approved equal or better," unless otherwise stated.

1.03 WORK SEQUENCE

- A. To minimize the impact of the Work and ensure the continued daily operations of the Hawaii Army National Guard, the Work shall be conducted in four (4) phases as shown on the contract Drawings and generally described as follows.
1. Phase 1: Site work including excavating and curb demolition
 2. Phase 1: Sloping and drainage analysis
 3. Phase 2: Installation of sub-grade materials.
 4. Phase 3: Installation of Asphalt

Once the Work, including that of individual phases, has started, it shall proceed without interruption, until Work and/or the Work of the individual phase has been completed.

1.04 USE OF PREMISES AND WORK RESTRICTIONS

A. The Contractor's use of premises is restricted as follows:

1. Sanitation:

- a. Contractor shall provide sanitary facilities including temporary toilets and wash facilities for all construction personnel.

2. Noise and Dust Control:

- a. In adjacent locations surrounding the project site, noise, dust and other disrupting activities, resulting from construction operations, are detrimental to the conduct of the Facility activities. Therefore, Contractor shall monitor its construction activities and exercise precaution when using equipment and machinery to keep the noise and dust levels to a minimum.

3. Other Conditions:

- a. Contractor shall supply a trash bin or bins as required for construction debris. Contractor shall ensure bin(s) are emptied no less than once per week.
- b. Operate machinery and equipment with discretion and with minimum interference to parking lot and walkways. Do not leave machinery and equipment unattended on roads or in the parking lot.
- c. A storage area for materials, supplies and equipment is designated on the plans. The Department will not be held responsible for damaged or missing items held on site.
 - d. Keep access roads to the project site free of dirt and debris. Provide, erect and maintain lights, barriers, signs, etc. when working on facility roads, driveways and walkways to protect pedestrians and moped/bicycle riders. Obey facility traffic and safety regulations.
 - e. Implement an approved Traffic Control Plan to ensure the safety of vehicles and pedestrians traversing the HIARNG Kalaeloa Base Entrance during hauling operations.

1.05 FUTURE WORK

A. Separate Contract:

B. Cooperate fully with separate Contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract.

1.06 SOLID WASTE REPORTS

- A. Submit solid waste reports for the duration of the project. The reports shall address:
 - 1. Diverted Waste (i.e. waste that does not go into the landfill)
 - 2. Landfill Waste
- B. Submit legible copies of dump ticket receipts from vendor, showing the tonnage of waste. If waste products are combined together with waste from other projects, the Contractor shall provide a breakdown per project.

1.07 MISCELLANEOUS PROVISIONS

- A. Historical Archaeological Artifacts: All items having any apparent historical or archaeological interest discovered in the course of construction activities shall be carefully preserved. Should historic remains such as artifacts, burials, concentrations of shell or charcoal be encountered during the construction activities, work shall cease immediately in the adjacent vicinity of the find and the applicable site shall be protected from further damage. The Contractor shall immediately contact the Project Manager.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01310 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. General project coordination procedures.
 - 2. Project meetings.

1.02 PERFORMANCE AND COORDINATION

- A. Contractor is in charge of the Work within the Project Contract Limits, and shall direct and schedule the Work. The Contractor holds final responsibility for performance, interface, and completion of the Work.
- B. The Contractor is responsible for jobsite Administration. Provide a competent superintendent on the job and provide an adequate staff to execute the Work. In addition, all workers shall dress appropriately and conduct themselves properly at all times. Loud abusive behavior, sexual harassment and misconduct will not be tolerated. Workers found in violation of the above shall be removed from the job site as directed by the Engineer.
- C. The State will hold the Contractor liable for all the acts of Subcontractors and shall deal only with the Prime Contractor in matters pertaining to other trades employed on the job.
- D. Coordination: Provide project interface and coordination to properly and accurately bring together the several parts, components, systems, and assemblies as required to complete the Work pursuant to the GENERAL CONDITIONS and SPECIAL CONDITIONS.
 - 1. Provide interface and coordination of all trades, crafts and subcontracts. Ensure and make correct and accurate connections of abutting, adjoining, overlapping, and related work. Provide anchors, fasteners, accessories, appurtenances, and incidental items needed to complete the Work, fully, and correctly in accordance with the Contract Documents.
 - 2. Provide additional structural components, bracing, blocking, miscellaneous metal, backing, anchors, fasteners, and installation accessories required to properly anchor, fasten, or attach material, equipment, hardware, systems and assemblies to the structure.
 - 3. Provide excavation, backfilling, trenching and drilling for trades to install their work.

4. Materials, equipment, component parts, accessories, incidental items, connections, and services required to complete the Work which are not provided by Subcontractors shall be provided by the Contractor.
5. Coordination: Coordinate construction operations included in various Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, which depend on each other for proper installation, connection, and operation.

1.03 COOPERATION WITH OTHER CONTRACTORS

- A. The State reserves the right at any time to contract for or otherwise perform other or additional work within the Project Contract Limits. The Contractor of this project shall to the extent ordered by the Engineer, conduct its work so as not to interfere with or hinder the progress or completion of the work performed by the State or other Contractors.

1.04 COORDINATION WITH OTHER PRIME CONTRACTORS

- A. Multiple Prime Contractors performing work under separate agreements with the State may be present near the project location, adjacent to and abutting the Project Contract Limits. This Contractor shall coordinate activities, sequence of work, protective barriers and any and all areas of work interfacing with other Prime Contractor's work. Contractor shall provide a continuity of finishes, walks, landscape, etc. at abutting Contract Limits so no additional work will be required. Any damage to other Prime Contractor's Work committed by this Contractor (or its Subcontractor) shall be repaired promptly at no additional cost to the State.
- B. Coordinate Subcontractors and keep them informed of any work from the other Projects that may affect the site or the Subcontractor's work. If the Contractor has any questions regarding its coordination responsibilities or needs clarification as to the impact in scheduling of its work and the work of other projects, this Contractor shall notify the Engineer in writing.
- C. Subject to approval by the Engineer, this Contractor shall amend and schedule its work and operations to minimize disruptions to the work and operations of other projects.
 1. Relocate or remove and replace temporary barriers, fencing supports or bracing to allow work by others to proceed unimpeded. Do not remove required barriers supporting work until specified time or as approved by the Engineer. This does not relieve the Contractor of the responsibility of proper coordination of the work. If directed by the Engineer, leave in place any temporary barriers.
 2. Coordinate work that abuts or overlaps work of the other projects with the Engineer and other Prime Contractors to mutual agreement so that work is 100 percent complete with continuity of all materials, systems and finishes.
 3. When directed by the Engineer, provide access into the construction zone to allow the other project's Contractor(s) to perform their Work and work that must be interfaced.

4. Contractor shall adjust and coordinate its Work and operations as required by the other projects as part of the Work of this contract without additional cost or delay to the State.
5. When directed by the Engineer provide a combined Contractor's construction schedule.

D. Other Contracts: If known, they are listed in SECTION 01100 - PROJECT REQUIREMENTS.

1.05 CONTROL OF WORK

A. General: All authority over the following items of work shall be in accordance with the Hawaii Standard Specifications for Road and Bridge Construction (HSSRB) 2005 Section 105:

1. Authority.....Section 105.01
2. Submittals Section 105.02
3. Shop Drawings.....Section 105.03
4. Review and Acceptance Process Section 105.04
5. Interpretations of the Contract Documents..... Section 105.05
6. Priority within Drawings Section 105.06
7. Examination of Contract Documents..... Section 105.07
8. Coordination between Contractor and StateSection 105.08
9. Coordination between Contractors..... Section 105.09
10. Construction Stakes, Lines and Grade Section 105.10(A)
11. Inspection of the Work and Materials.....Section 105.11
12. Removal of Non-Conforming and Unauthorized Work..... Section 105.12
13. Subcontracts Section 105.16
14. Dimensions and Performance Standards..... Section 105.17

B. Where the reference provisions of the "HSSRBC" differ from any applicable requirements contained elsewhere within the Specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer.

C. All other portions of Section 105 not mentioned above are not to be considered part of the project's Specifications.

1.06 COORDINATION WITH USER

A. Contractor shall coordinate all construction work with the Engineer.

1.07 SUBMITTALS

A. Photo Documentation: Prior to the start of jobsite work, the Contractor shall photo document the existing conditions at the site and file with the Engineer one complete set of documents.

1.08 PROJECT MEETINGS AND TRAINING

- A. General: Schedule and conduct meetings and conferences as directed by the Engineer at the Job Site, unless otherwise indicated. The Contractor is not required to set up a field office.
1. Attendees: Inform participants and others involved, Engineer, Construction Manager and individuals whose presence is required, of date and time of each general meeting. Notify Engineer of scheduled meeting dates and times.
 2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
 3. Minutes: Contractor record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Engineer, within 7 days of the meeting.
- B. Preconstruction Conference: Engineer shall schedule a preconstruction conference before the start of construction, at a time convenient to the Engineer, a Project Notice to Proceed date will be established at the conference. Conference will be held at **BLDG 282**. The Engineer shall conduct the meeting to review responsibilities and personnel assignments.
1. Attendees: Engineer, Construction Manager, and design consultants; Facility Users; Contractor and its superintendent; major Subcontractors; manufacturers; suppliers; and other concerned parties shall attend the conference. All participants at the conference shall be familiar with the Project and authorized to conclude matters relating to the Work.
 2. Agenda: Discuss items of significance that could affect progress, including but not limiting to the following:
 - a. Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing and coordination.
 - d. Designation of responsible personnel.
 - e. Use of the premises.
 - f. Responsibility for temporary facilities and controls.
 - g. Parking availability.
 - h. Office, work, and storage areas.
 - i. Equipment deliveries and priorities.
 - j. First aid.
 - k. Security.
 - l. Progress cleaning.
 - m. Working hours.
 - n. Kahala Tunnel traffic control plan.
- C. Progress Meetings: Conduct progress meetings at monthly or other intervals as determined by the Engineer.

1. Attendees: In addition to Engineer, each Contractor, Subcontractor, Construction Manager, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with the Project and authorized to conclude matters relating to the Work.
2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Outstanding Requests for information (clarification).
 - 2) Interface requirements.
 - 3) Sequence of operations.
 - 4) Status of outstanding submittals.
 - 5) Deliveries.
 - 6) Off-site fabrication.
 - 7) Access.
 - 8) Site utilization.
 - 9) Temporary facilities and controls.
 - 10) Work hours.
 - 11) Hazards and risks.
 - 12) Progress cleaning.
 - 13) Quality and work standards.
 - 14) Force Account work.
 - 15) Change Orders and Change Proposals.
 - 16) Documentation of information for payment requests.
 - 17) Traffic Control
 - c. Corrective Action Plan: Contractor shall provide a plan of corrective action for any item which is delayed or expected to be delayed. Then the plan should indicate how the item impacts the contractual dates.
3. Reporting: Distribute minutes of the meeting to each party present and to parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.
 - a. Schedule Updating: Revise Contractor's Construction Schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01320 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Contractor's Construction Schedule.
 - 2. Submittals Schedule.
 - 3. Schedule of Prices.
 - 4. Payment request.

- B. Related Sections include the following:
 - 1. SECTION 01310 - PROJECT MANAGEMENT AND COORDINATION for preparing a combined Contractor's Construction Schedule.
 - 2. SECTION 01330 - SUBMITTAL PROCEDURES for submitting schedules and reports.

1.02 DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
 - 1. Critical activities are activities on the critical path and control the total length of the project. They must start and finish on the planned early start and finish times.
 - 2. Predecessor activity is an activity that must be completed before a given activity can be started.

- B. CPM: Critical Path Method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of project.

- C. Critical Path: The longest continuous chain of activities through the network schedule that establishes the minimum overall Project duration and contains no float.

- D. Event: The starting or ending point of an activity.

- E. Float: The measure of leeway in starting and completing an activity.

1. Float time is not for the exclusive use or benefit of either the Department or Contractor, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.
 2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the following activity.
 3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.
- F. Schedule of Prices: A statement furnished by Contractor allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Payment requests.

1.02 SUBMITTALS

- A. Required Submittals: Submit 2 sets of the list of the required submittals, by Specification Section, within 15 days after award of the contract or upon earlier written instructions from the Engineer. A general listing is provided under SECTION 01330 - SUBMITTAL PROCEDURES.
1. The listing shall indicate and include the following:
 - a. The number of copies required for submittal.
 - b. Planned submittal date.
 - c. Approval date required by the Contractor.
 - d. A space where the "date of submittal" can be inserted.
 - e. A space where the "date of approval" can be inserted.
 - f. A space where an "action code" can be inserted.
- B. Construction Schedule: Submit 3 sets of the Construction Schedule for review within 15 days after the award of the contract or upon earlier written instructions from the Engineer.
- C. Schedule of Prices: Submit 3 sets of the Schedule of Prices integrated with the Construction Schedule for review within 15 days after the award of the contract or upon earlier written instructions from the Engineer.
1. Contractor shall submit Payment requests to Engineer for approval. Request to include Job No., Contract No., and line item breakdown, reflecting the Schedule of Prices.
- D. Payment request: Submit the payment request at earliest possible date and no sooner than the last day of the month after all payroll affidavits, updated submittal registers, and schedules have been submitted.

1.03 COORDINATION

- A. Coordinate preparation and processing of schedules and reports with performance of construction activities and with scheduling and reporting of separate Contractors.

- B. Construction Schedule: Coordinate Contractor's Construction Schedule with the Schedule of Prices, Submittals Schedule, loaded monthly event activity, and other required schedules and reports.
 - 1. Secure time commitments for performing critical elements of the Work from parties involved.
 - 2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.
- C. Schedule of Prices: Coordinate preparation of the schedule with preparation of Contractor's Construction Schedule.
 - 1. Correlate line items in the Schedule of Prices with other required administrative forms and schedules, including the following:
 - a. The payment request and the Construction Progress Report continuation sheet for the event cost estimate per time period.
 - b. Submittals Schedule.

PART 2 - PRODUCTS

2.01 SUBMITTALS SCHEDULE

- A. Comply with the GENERAL CONDITIONS. Furnish required submittals specified in this Section and in the Technical Sections. Submittals include one or more of the following: shop drawings, material samples, technical data, material safety data information, schedules of materials, guarantees, certifications, and field posted as-built drawings.
- B. Preparation: Furnish a schedule of submittals per Engineer.
 - 1. Coordinate Submittals Schedule with list of subcontracts, the Schedule of Prices, and Contractor's Construction Schedule.
 - 2. The schedule shall accommodate a minimum of 21 calendar days for the State's review, as applicable for the Island the project is located.
 - 3. Prepare and submit an updated list to the Engineer at monthly intervals or as directed by the Engineer. The listing shall reflect all approvals received since the last update.

2.02 CONTRACTOR'S CONSTRUCTION SCHEDULE – GANTT CHART METHOD

- A. The construction schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. The progress chart shall indicate the order in which the Contractor contemplates starting and completing the several salient features of the work (including acquiring materials, plant, and equipment).

- B. Upon completion of the Engineer's review, the Contractor shall amend the schedule as necessary to reflect the comments. If necessary, the Contractor shall participate in a meeting with the Engineer to discuss the proposed schedule and changes required. Submit the revised schedule for review within 7 calendar days after receipt of the comments.
- C. Use the reviewed schedule for planning, organizing and directing the work, for reporting progress, and for requesting payment for the work completed. Unless providing an update, do not make changes to the reviewed schedule without the Engineer's approval.
- D. If, in the opinion of the Engineer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve progress, including those that may be required by the Engineer, without additional cost to the State. The Engineer may require the Contractor to increase the number of shifts, overtime operations, days of work, or amount of construction plant, and to submit for approval any supplemental schedule or schedules in chart form as the Engineer deems necessary to demonstrate how the approved rate of progress will be regained.
- E. Update the construction schedule at monthly intervals or when directed by the Engineer to revise the schedule. Reflect any changes occurring since the last update with each invoice for progress payment. Submit copies of the purchase orders and confirmation of the delivery dates as directed. The Engineer's review of the updated schedule is to check that the updated schedule does not alter the construction performance period unless the period was revised through a change order or contract modification.

2.03 SCHEDULE OF PRICES

- A. Furnish a schedule of prices to the Engineer.
- B. Provide a breakdown of the Contract Sum in enough detail to facilitate the development and the continued evaluation of Payment requests. Provide several line items for principal subcontract amounts, or for materials or equipment purchased or fabricated and stored, but not yet installed, where appropriate. Round amounts to nearest whole dollar; total shall equal the Contract Price.
- C. Each item in the Schedule of Prices and Payment request shall be complete. Include total cost and proportionate share of general overhead and profit for each item.

2.04 PAYMENT REQUEST

- A. Payment Request Forms: Use and submit copies of the Payment Request and Construction Progress forms provided by the Engineer. Furnish two (2) copies, one with an original signature.
- B. Forms Preparation: Complete every entry on form. Execute by a person authorized to sign legal documents on behalf of the Contractor.
 - 1. Include amounts of Change Orders and Contract Modifications before last day of construction period covered by Request Form.

- C. Use the Schedule of Prices as the Monthly Construction Progress Report. Each Payment Request shall be consistent with previous requests and payments. The Engineer shall determine the appropriateness of each payment request item.
- D. Payment Request Times: The date for each progress request is the last day of each month. The period covered by each Payment Request starts on the first day of the month or following the end of the preceding period and ends on the last day of the month.
- E. Updating: Update the schedule of prices listed in the Payment request when Change Orders or Contract Modifications result in a change in the Contract Price.
- F. Provide a separate line item for each part of the Work where Payment request may include materials or equipment purchased or fabricated and stored, but not yet installed.
- G. Differentiate between items stored on-site and items stored off-site. Include evidence of insurance or bonded warehousing if required.
- H. Provide separate line items for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
- I. No payment will be made until the following are submitted to the Construction Manager each month:
 - 1. Monthly Estimate (3 copies)
 - 2. Monthly Progress Report (3 copies)
 - 3. Statement of Contract Time (3 copies)
 - 4. Updated Submittal Register (3 copies)
 - 5. Updated Progress Schedule (3 copies)
 - 6. All Daily Reports (3 copies)
 - 7. Payroll Affidavits (Certified Payrolls) are submitted weekly (3 copies)
 - 8. Monthly Report of Contractor's Participation in Approved Apprenticeship Program Under Act 17 (Form 2) is submitted monthly (3 copies)
- J. Retainage: The Department will withhold retainage in compliance with the GENERAL CONDITIONS.
- K. Transmittal: Submit the signed original and 1 copy of each Payment Request for processing.

2.05 CONTRACTOR DAILY PROGRESS REPORTS

- A. The General Contractor is responsible for submitting the General Contractor and Subcontractor Daily Progress Reports (Daily Reports) for the General Contractor all subcontractors and any lower-tier subcontractors.
- B. The form of the Daily Progress Report shall be as directed by the Engineer. A separate report shall be made and submitted for the General Contractor (each calendar day) and each subcontractor (each day worked). The report shall include the following information for each employer: Name of General Contractor or Subcontractor, Report Number, Contract Day (consecutive calendar day from Notice to Proceed (NTP) Date), date worked, work location and description, number of workers, trade/labor classification, and work hours. For General Contractor, only the Contract Day is required because the Report Number will be the same number.
- C. The Daily Reports shall be prepared from the project NTP date. Daily Reports shall continue to be prepared and submitted up to the Project Acceptance Date. After the Project Acceptance Date, Daily Reports will be submitted for days worked only, and continue until the Contract Completion Notice date. Running Contract Day will stop at Project Acceptance Date.
- D. Submit copies of the previous week's reports on Monday morning at 10:00 a.m.
- E. Daily Reports can be handwritten in the field.
- F. A sample Daily Progress Report Form will be supplied prior to the start of the work.

PART 3 - EXECUTION (Not Used)

END OF SECTION

SECTION 01330 – SUBMITTALS

PART 1 – GENERAL

1.01 SUMMARY

- A. Comply with the GENERAL CONDITIONS.
- B. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other miscellaneous submittals.

1.02 SUBMITTAL PROCEDURES

- A. Coordinate Work and Submittals: Contractor shall certify the submittals were reviewed and coordinated.
- B. Submittal Certification: Provide in MS Word when submitting electronically. Provide a reproduction (or stamp) of the “Submittal Certification” and furnish the required information with all submittals. Include the certification on:
 - 1. The title sheet of each shop drawing, or
 - 2. The cover sheet of submittals in 8-1/2 inch x 11-inch format, or
 - 3. One face of a cardstock tag (minimum size 3-inch x 6-inch) tied to each sample. On the sample tag, identify the sample to ensure sample can be matched to the tag if accidentally separated. The opposite face of the tag will be used by the Engineer to receive, review, log stamp and include comments.
- C. Variances: The Contractor shall request approval for a variance. Clearly note any proposed deviations or variances from the Specifications, Drawings, and other Contract Documents on the submittal and also in a separately written letter accompanying the submittal
- D. Submittal Certification Form (stamp or digital)

CONTRACTOR NAME: _____

PROJECT: _____

JOB NO: _____

As the General Contractor, we checked this submittal and we certify it is correct, complete, and in compliance with Contract Drawings and Specifications. All affected Contractors and suppliers are aware of, and will integrate this submittal into their own work.

3. Tests

4. Closing

D. Contractor shall separate all different types of data as separate line items all with the column requirements.

E. Contractor shall send monthly updates and reconciled copies electronically to the Engineer and the Design Consultant in MS Word or MS Excel or other format as accepted by the Engineer.

	Shop Drawings & Diagrams	Samples	Certificates (Material, Treatment,	Product Data, Manufacturer' s Technical Literature	MSDS Sheets	Calculations	Reports (Testing, Maintenance,	Test Plan	Equipment or Fixture Listing	Schedules (Project Installation)	Maintenance Service Contract	Field Posted As-Built Drawings	Others	Guaranty or Warranty	Manufacturer' s Guaranty or Warranty (Greater than one year)
01230 – Alternates															
01310 – Project Management and Coordination										X			X		
01320 – Construction Progress Documentation							X			X					
01330 – Submittal Procedures															
01500 – Temporary Facilities and Controls			X	X	X		X								
01700 – Execution Requirements	X			X		X							X		

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END OF SECTION

	Shop Drawings & Diagrams
	Samples
	Certificates (Material, Treatment,
	Product Data, Manufacturer's Technical Literature
	MSDS Sheets
	Calculations
	Reports (Testing, Maintenance,
	Test Plan
	Equipment or Fixture Listing
	Schedules (Project Installation)
	Maintenance Service Contract
	Field Posted As-Built Drawings
	Others
	Guaranty or Warranty
	Manufacturer's Guaranty or Warranty (Greater than one year)

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.01 SUMMARY

- A. Requirements for temporary facilities and controls, including temporary utilities, support facilities, and security and protection facilities.
- B. Temporary utilities include but are not limited to, the following:
 - 1. Water service and distribution.
 - 2. Sanitary facilities, including toilets, wash facilities, and drinking water facilities.
 - 3. Electric power service.
 - 4. Lighting
- C. Support facilities include, but are not limited to, the following:
 - 1. Storage sheds.
 - 2. Trash, refuse disposal.
 - 3. Construction aids and miscellaneous services and facilities.
- D. Security and protection facilities and measures include, but are not limited to, the following:
 - 1. Environmental protection, such as dust fences, biosocks, etc.
 - 2. Barricades, etc.
 - 3. Temporary enclosures.

1.02 USE CHARGES

- A. General: Cost or use charges for temporary facilities are not chargeable to the State and shall be included in the Contract Price. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following:
 - 1. Other Contractors with agreements with the State working within the contract limits.
 - 2. Occupants of Project.
 - 3. Testing agencies.
 - 4. Engineer and personnel of authorities having jurisdiction.

1.03 (NOT USED)

1.04 QUALITY ASSURANCE

- A. Standards: Comply with UBC Chapter 33, "Site Work, Demolition and Construction," ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241, "Construction, Alteration, and Demolition Operations."
 - 1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
 - 2. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70, "National Electrical Code."

1.05 PROJECT CONDITIONS

- A. Conditions of Use: The following conditions apply to use of temporary services and facilities by all parties engaged in the Work:
 - 1. Keep temporary services and facilities clean and neat.
 - 2. Relocate temporary services and facilities as required by progress of the Work.

1.06 PREPARATION AND PROTECTION

- A. Protection of Property: Continually maintain adequate protection of the Work from damage and protect all property, including but not limited to buildings, equipment, furniture, grounds, vegetation, material, utility systems located at and adjoining the job site. Repair, replace or pay the expense to repair damages resulting from Contractor's fault or negligence.
- B. Before starting work to be applied to previously erected constructions, make a thorough and complete investigation of the recipient surfaces and determine their suitability to receive required additional construction and finishes. Make any repair that is required to properly prepare surfaces, and coordinate the Work to provide a suitable surface to receive following Work.
- C. Commencing work by any trade implies acceptance of existing conditions and surfaces as satisfactory for the application of subsequent work, and full responsibility for finished results and assumption of warranty obligations under the Contract.
- D. Protect existing (including interiors) work to prevent damage by vandals or the elements. Provide temporary protection. Use curtains, barricades, or other appropriate methods. Take positive measures to prevent breakage of glass and damage to plastic, aluminum and other finishes.
- E. Repairs and Replacements: Promptly replace and repair damages to the approval of the Engineer. Additional time required to secure replacements and to make repairs does not justify a time extension.

PART 2 - PRODUCTS

2.01 EQUIPMENT

- A. General: Provide new materials. Undamaged, previously used materials in serviceable condition may be used if approved by Engineer. Provide materials suitable for use intended
- B. Self-Contained Combination Toilet and Urinal Units: Single occupant units of chemical, aerated recirculation, or combustion type: fully enclosed with a glass fiber reinforced polyester shell or similar nonabsorbent material. One quarter of, or at least one unit(s) shall contain a hand wash sink with potable water storage.

PART 3 - EXECUTION

3.01 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required.
- B. Provide each facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.
 - 1. Arrange with utility company, the Department, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
 - 2. Provide adequate capacity at each stage of construction. Before temporary utility is available, provide trucked in services.
- C. Water Service: Make arrangements with the utility company for temporary use of water, and pay for all expenses. At the option of the Contractor, a temporary tap into the facility's existing water system is allowed, subject to the following conditions:
 - 1. Comply with the Department of Health's and County water provider's requirements when tapping into the existing water system.
 - 2. Reasonable amounts of water will be available without charge.
 - 3. Meter the tapped line and prior to water use, notify the Engineer to observe an initial meter reading.
 - 4. Contractor to take monthly readings and report usage amount to Engineer. If the Engineer determines that the water usage is beyond a "reasonable" amount, the State will bill the Contractor for excess usage at the current NAVFAC water and associated sewer rates.
 - 5. Upon completion of the project and just prior to removal of the water meter, notify the Engineer to observe a final meter reading.

6. Should the Contractor at any time fail to comply with any or all of the above conditions, the Department may terminate the use of water. The Contractor shall remove the hookup within 48 hours of notification of such termination.
- D. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water fixtures. Comply with regulations and health codes for type, number, location, operation, and maintenance of fixtures and facilities.
1. Disposable Supplies: Provide toilet tissue, paper towels, paper cups, and similar disposable materials for each facility. Maintain adequate supply. Provide covered waste containers for disposal of used material.
- E. Electric Power Service: Use of State facilities electrical power services will be permitted as long as equipment is maintained in a condition acceptable to the Engineer.
- F. Wash Facilities: Install wash facilities supplied with potable water at convenient locations for personnel who handle materials that require wash up. Dispose of drainage properly. Supply cleaning compounds appropriate for each type of material handled.
- G. Locate toilets and drinking water fixtures so personnel need not walk more than 2 stories vertically or 200-feet horizontally to facilities.

3.02 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
1. Locate storage sheds, sanitary facilities, and other temporary construction and support facilities for easy access or where shown on Contract Drawings or as directed by the Engineer.
 2. Maintain support facilities until near Substantial Completion. Remove before Substantial Completion.
- B. Project Sign and Temporary Sign(s):
1. Provide and install signs, including warning signs as shown on the plans.
 2. Install signs where directed by the Engineer or where indicated to inform public and persons seeking entrance to the Project. Do not permit installation of unauthorized signs.
 3. Provide temporary signs to provide directional information to construction personnel and visitors.
 4. Construct signs with durable materials, properly supported or mounted, and visible.
- C. Trash, Refuse Disposal:
1. Department of Health – Illegal Dumping Notice. See attachment to Part 3 of this

section.

- a. This Notice to be printed out on 8.5" x 11" paper.
 - b. This Notice to be posted at the job site field office and/or in locations visible to all contractors, subcontractors, suppliers, vendors, etc. throughout the duration of the project.
2. Illegal Dumping of solid waste could subject the Contractor to fines and could lead to felony prosecution in accordance with Chapter 342H, HRS. For more information, see the following web site:
<http://www.hawaii.gov/health/environmental/waste/sw/pdf/llldump.pdf>
 3. Provide waste collection containers in sizes adequate to handle waste from construction operations. Containerize and clearly label hazardous, dangerous, or unsanitary waste materials separately from other waste.
 4. Haul unusable debris and waste material to an appropriate off site dump area.
 - a. Water down debris and waste materials during loading operations or provide other measures to prevent dust or other airborne contaminants.
 5. Burning of debris and waste materials shall not be permitted on the project site. The project shall be cleaned of all trash, construction debris and waste materials, and other objectionable materials, and removed daily.

3.03 ENVIRONMENTAL CONTROLS

- A. General: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- B. Dust Control:
 1. Prevent dust from becoming airborne at all times including non-working hours, weekends and holidays in conformance with the State Department of Health, Administrative Rules, Title 11, Chapter 60.1 Air Pollution Control.
 2. Contractor is responsible for and shall determine the method of dust control. Subject to the Contractor's choice, the use of water or environmentally friendly chemicals may be used over surfaces that create airborne dust.
 3. Contractor is responsible for all damage claims due to their negligence to control dust.
- C. Noise Control
 1. Keep noise within acceptable levels at all times in conformance with the State Department of Health, Administrative Rules, Title 11, Chapter 46 Community Noise Control. Obtain and pay for the Community Noise Permit when

construction equipment or other devices emit noise at levels exceeding the allowable limits.

2. Unless specified elsewhere, do not start construction equipment that meet allowable noise limits prior to 6:45 A.M. or equipment exceeding allowable noise levels prior to 7:00 A.M.

3.04 VIOLATION OF ENVIRONMENTAL PROVISIONS

- A. Violations of any of the above environmental control requirements or any other pollution control requirements; which may also be specified in the other Specifications sections, shall be resolved under the GENERAL CONDITIONS.

3.05 TEMPORARY FIRE PROTECTION

- A. Install and maintain temporary fire protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
 1. Locate fire extinguishers where convenient and effective for their intended purpose.
 2. Store combustible materials in containers in fire safe locations.
 3. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities and other access routes for firefighting. Prohibit smoking in hazardous fire exposure areas.
 4. Supervise welding operations, combustion type temporary heating units, and similar sources of fire ignition.

3.06 OPERATION, TERMINATION, AND REMOVAL

- A. Maintenance: Maintain facilities in good operating condition until removal. Protect from damage caused by heat temperatures and similar elements.
- B. Termination and Removal: Remove each temporary facility when needed, or for its service has ended, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 1. Materials and facilities that constitute temporary facilities are the property of Contractor. The Department reserves the right to take possession of Project identification signs.

END OF SECTION

DEPARTMENT OF HEALTH ILLEGAL DUMPING NOTICE

The law requires you to dispose solid waste only at recycling or disposal facilities permitted by the Department of Health.

“Solid waste” includes municipal refuse, construction and demolition waste, household waste, tires, car batteries, derelict vehicles, green wastes, furniture, and appliance.

Illegal dumping of solid waste or allowing illegal disposal of solid waste on your property even if contractual or other arrangements are made could subject you to fines from \$10,000 to \$25,000 per occurrence and could lead to felony persecution in accordance with Chapter 342H, HRS.

Contact the Department of Health, Solid Waste Section at 586-4226 to report illegal dumping activities or if you have further questions.

SECTION 01700 - EXECUTION REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes general procedural requirements governing execution of the Work including the following:
 - 1. Construction layout. Field engineering and surveying.
 - 2. General installation of products.
 - 3. Progress cleaning.
 - 4. Starting and adjusting.
 - 5. Protection of installed construction.
 - 6. Correction of the Work.
- B. Related Sections
 - 1. SECTION 01770 - CLOSEOUT PROCEDURES.

1.02 SUBMITTALS

- A. Landfill Receipts: Submit copy of receipts issued by a landfill facility.

1.03 NOTIFICATION

- A. Contact the Engineer at least 7 working days prior to starting any onsite work.

1.04 PROJECT AND SITE CONDITIONS

- A. Project Contract Limits are indicated on the plans. Perform necessary and incidental work, which may fall outside of these demarcation lines. Confine construction activities within the Project Contract Limits and do not spread equipment and materials indiscriminately about the area. Project Contract Limits are Shown on the Drawings
- B. Disruption of Utility Services: If necessary, prearrange work related to the temporary disconnection of electrical, communication and other utility systems with the Engineer. Unless a longer notification period is required elsewhere in the Contract Documents, notify the Engineer at least 15 days in advance of any interruption of existing utility service. Time and duration of interruptions are subject to the Engineer's approval. Keep the utility interruptions and duration to a minimum so as not to cause inconvenience or hardship to the facility. If temporary electrical or other utility systems hook-up is required, provide the necessary services. Pay for temporary services as part of the contract, unless specifically noted otherwise.

- C. Contractor's Operations - Provide means and methods to execute the Work and minimize interruption or interference to the surrounding facilities' operations. Rearrange the construction schedule when construction activities result in interruptions that hamper the operations of the facilities.
- D. Maintain safe passageway to and from the occupied buildings for the using agency personnel and the public at all times.
- E. Contractor, Subcontractor(s) and their employees will not be allowed to park in zones assigned to Users or facility personnel during any work on the roadways. Subject to availability, the Engineer may designate areas outside of the Contract Limits to be used by the Contractor. Restore any lawn area damaged by construction activities.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 EXAMINING THE SITE

- A. Contractor and Subcontractors are expected to visit the site and make due allowances for difficulties and contingencies to be encountered. Compare contract documents with work in place. Become familiar, with existing conditions, the conditions to be encountered in performing the Work, and the requirements of the Drawings and Specifications.
- B. Verify construction lines, grades, dimensions and elevations indicated on the Drawings before any clearing, excavation or construction begins. Bring any discrepancy to the attention of the Engineer, and make any change in accordance with the Engineer instruction.
- C. Obtain all field measurements required for the accurate installation of the Work included in this Contract. Verify governing dimensions and examine adjoining work on which the Contractor or Subcontractor's work is in any way dependent. Submit differences discovered during the verification work to the Engineer for interpretations before proceeding with the associated work. Exact measurements are the Contractor's responsibility.
- D. Furnish or obtain templates, patterns, and setting instructions as required for the installation of all Work. Verify dimensions in the field.
- E. Contractor shall accept the site and the existing building(s) in the condition that exists at the time access is granted to begin the Work. Verify existing conditions and dimensions shown and other dimensions not indicated but necessary to accomplish the Work.
- F. Locate all general reference points and take action to prevent their destruction. Lay out work and be responsible for lines, elevations and measurements and the work executed. Exercise precautions to verify figures and conditions shown on Drawings before layout of work.

3.02 SITE UTILITIES AND TONING

- A. Cooperate, coordinate and schedule work to maintain construction progress, and accommodate the operations and work of the owners of underground or overhead utility lines or other property in removing or altering the lines or providing new services.
- B. Contact all the various utility companies before the start of the work to ascertain any existing utilities and to develop a full understanding of the utility requirements with respect to this Project. Furnish the Engineer with evidence that the utility companies were contacted.
- C. Should the Contractor discover the existence and location of utilities in the contract Drawings are not correct, do not disturb the utilities and immediately notify the Engineer.
- D. Do not disturb or modify any utilities encountered, whether shown or not on the Contract Drawings, unless otherwise instructed in the Drawings and Specifications or as directed by the Engineer. Repair and restore to pre-damaged condition any utilities or any other property damaged by construction activities.

3.03 FIELD MEASUREMENTS

- A. Take field measurements to fit and install the Work properly.
- B. Review of Contract Documents and Field Conditions: Submit a Request for Information (RFI) immediately upon discovery of the need for clarification of the Contract Documents. Include a detailed description of problem encountered, together with recommendations for changing the Contract Documents.

3.04 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to existing conditions. If discrepancies are discovered, notify the Engineer promptly.

3.05 FIELD ENGINEERING

- A. **Topographic Survey: Contractor is to perform, conduct, or hire a Licensed Surveyor to plot elevations of the Project Limits and subsequent perimeter.**
- B. **Sloping and Drainage: Contractor is responsible for the identification of all stormwater drainage inlets and sloping the installation to adequately drain the Project Limit's runoff**
- C. Reference Points: Locate existing permanent or temporary benchmarks, control points and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.
 - 1. Do not change or relocate existing benchmarks or control points without the Engineer's approval. Report lost or destroyed permanent benchmarks or control points promptly. Report the need to relocate permanent benchmarks or control points to the Engineer before proceeding.
 - 2. Replace lost or destroyed permanent benchmarks and control points promptly.

- D. Remove and replace chipped, scratched, and broken glass or reflective surfaces.
- E. Contractor is to perform **two** surveys; the first survey is to be finished before any site work begins (construction) and the second is to be performed at the conclusion of the project
 - 1. Elevation differences are to be corrected to maintain current runoff drainage

3.06 CLEANING

- A. General: Clean the project site and work areas daily. Dispose of waste materials and debris so that Site is cleanly maintained. Hauling of waste material and debris shall be done in the afternoons.
- B. Health and Safety Plan: Contractor shall submit a health and safety plan for the project to the Construction Manager for review.
- C. Traffic Control Plan: Contractor shall submit a traffic control plan for the work on the main road as well as when hauling waste materials on the same road.

END OF SECTION

SECTION 01770 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section includes administrative and procedural requirements for contract closeout, including the following:
 - 1. Project Record Documents.
 - 2. Warranties.
 - 3. Instruction for the State's personnel.
- B. Related documents include the following:
 - 1. SECTION 01700 - EXECUTION REQUIREMENTS.

1.02 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting a Final Inspection to determine Substantial Completion, complete the following items in addition to requirements of Article 7.31 Substantial Completion and Final Inspection of the GENERAL CONDITIONS.
 - 1. Advise the Engineer of pending insurance changeover requirements.
 - 2. Submit specific warranties, final certifications, and similar documents.
 - 3. Terminate and remove temporary facilities from Project site, along with construction tools, and similar elements.
 - 4. Complete final cleaning requirements, including touch-up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
 - 5. Submit certified topographic surveys

1.03 FINAL COMPLETION

- A. Preliminary Procedures: Within 10 days from the Project Acceptance Date, complete the following items in addition the requirements of General Conditions Article 7 Prosecution and Progress:
 - 1. Instruct the State's personnel in operation, adjustment, and maintenance of products, equipment, and systems.

1.04 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Preparation: Submit 2 copies of any updated action taken list. In addition to requirements of GENERAL CONDITIONS Article 7.31 Substantial Completion and Final Inspection, include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Include the following information at the top of each page:
 - a. Project Name and Title.
 - b. DOD Job No.
 - c. Date and page number.
 - d. Name of Contractor.

1.05 PROJECT RECORD DOCUMENTS AND REQUIREMENTS

- A. General:
1. Definition: "Project Record Documents," including Record Drawings, shall fulfill the requirements of "Field-Posted As-Built Drawings" listed in the GENERAL CONDITIONS.
 2. Do not use Project Record Documents for daily construction purposes. Protect Project Record Documents from deterioration and loss. Provide access to Project Record Documents for Engineer's reference during normal working hours. Maintain these documents as specified in paragraph entitled "Record Drawings" hereinafter.
 3. Where the recorded changes depicted on the Contractor's Field Posted Record ("As-builts") are in the form of shop drawings, the Contractor shall provide those shop drawings electronically on the same sheet size as the drawings transmitted to the Contractor. The new drawing sheets shall be titled and numbered to conform to the construction drawings and clearly indicate what information they supersede in the actual construction drawings. For example, a new drawing that replaces drawing M-3, could be numbered M3a.
 4. The Designer, under contract with the State, will update the drawings to show all addendum, PCD, and sketch changes. The Engineer will transmit these drawings to the Contractor who will make all "red-line" corrections to these drawings to record the changes depicted on the Contractor's Field Posted Record ("As-Builts") by accepted drafting practices as approved by the Engineer.
 5. The Contractor shall bring to the attention of the Engineer any discrepancy between the changes made by the Designer and those depicted on addendum, PCD, and sketch changes. The Engineer will resolve any conflicts.
 6. Submit final Record Documents (Field Posted Record Drawings) within 10 days after the Final Inspection Date but no later than the Contract Completion Date, unless the GENERAL CONDITIONS require an earlier submittal date.

7. The Contractor shall guarantee the accuracy of its final Record Documents. The State will hold the Contractor liable for costs the State incurs as a result of inaccuracies in the Contractor's Record Documents.
8. Prepare and submit construction photographs and electronic files, damage or settlement surveys, property surveys, and similar final record information as required by the Engineer.

B. Record Drawings:

1. Produce a new full-size set of Field Posted Record ("As-Builts") Drawings at the conclusion of the job. Clearly and accurately record all deviations from alignments, elevations and dimensions, which are stipulated on the drawings and for changes directed by the Engineer that deviate from the drawings.
2. Record changes immediately after they are constructed in place and where applicable, refer to the authorizing document (Field Order, Change Order, or Contract Supplement). Use red pencil to record changes. Make Field Posted Record Drawings available to the Engineer at any time so that its clarity and accuracy can be monitored.
 - a. Give particular attention to information on concealed elements that cannot be readily identified and recorded later.
 - b. Accurately record information in an understandable drawing technique.
 - c. Record data as soon as possible after obtaining it. Record and check the markup before enclosing concealed installations.
 - d. Mark the contract drawings or the shop drawings, whichever is most capable of showing actual physical conditions, completely and accurately. Where Shop Drawings are marked, show cross-reference on contract drawings.
 - e. Mark important additional information that was either shown schematically or omitted from original Drawings.
 - f. Locate concealed building utilities by dimension from bench marks or permanent structures. Locate site utilities by dimensions, azimuth and lengths from bench marks or permanent structures.
 - g. Note field order numbers, Change Order numbers, Contract Modification numbers, Alternate numbers, post-construction drawing numbers (PCD) and similar identification (RFI numbers) where applicable.
 - h. The Contractor shall initial each deviation and each revision marking.
3. Use the final Field Posted Record Drawings sheets to create one electronic version of the set. The set shall be recorded in Adobe Acrobat PDF (Portable Document Format). Create a single indexed, bookmarked PDF file of the entire set of drawings and record on the CD. Submit one set of the final Field Posted Record Drawings sheets and the complete electronic CD set(s).

1.06 WARRANTIES

- A. Submittal Time: Submit written manufacturer's warranties at request of the Engineer for designated portions of the Work where commencement of warranties other than Project Acceptance date is indicated.
- B. Partial Occupancy: Submit properly executed manufacturer's warranties within 45 days of completion of designated portions of the Work that are completed and occupied or used by the State during construction period by separate agreement with Contractor.
- C. Organize manufacturer's warranty documents into an orderly sequence based on the table of contents of the Specifications.
 - 1. Use the final submittal of the warranties to create an electronic Adobe Acrobat PDF (Portable Document Format) version of the bound warranty documents files. Each sheet shall be separately scanned, at 600 DPI or better into a PDF file, indexed and recorded on a file-sharing service.
- D. Provide 2 sets of manufacturer's warranties that exceed one year and one digital copy as part of the closing document submittals.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.01 FINAL AND PROGRESSIVE CLEANING

- A. General: Provide final and progressive cleaning for each phase of work prior to starting the next phase. In addition to requirements of Article 7 of the GENERAL CONDITIONS conduct cleaning and waste-removal operations to comply with local laws and ordinances and federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions unless noted otherwise. Complete the following cleaning operations before requesting final inspection for entire Project or for a portion of Project:
 - 1. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - 2. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits resulting from construction activities.
 - 3. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.

4. Remove tools, construction equipment, machinery, and surplus material from Project site.
 5. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 6. Remove debris and surface dust from limited access spaces, including: roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 7. Sweep concrete floors broom clean in unoccupied spaces.
 8. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials. Polish mirrors and glass surfaces, taking care not to scratch surfaces.
 9. Remove labels that are not permanent.
 10. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
 11. Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 12. Replace parts subject to unusual operating conditions.
 13. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency. Replace burned-out bulbs, and those noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.
 14. Leave Project clean and ready for occupancy.
- C. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the State's property. Do not discharge volatile, harmful, or dangerous materials into drainage and sewer systems or onto State property. Remove waste materials from Project site in accordance with applicable federal, State and local regulations.

END OF SECTION

SECTION 02110 – CLEARING AND GRUBBING

PART 1 – GENERAL

1.01 SUMMARY

- A. This section includes clearing, grubbing, and disposing of surplus materials in accordance with the Hawaii Standard Specification for Road and Bridge Construction, 2005 (HSSRBC), Section 201.
- B. Work shall include the items described below, but shall not be limited to the following:
 - 1. Description..... Section 201.01
- C. Where the reference provisions of the “HSSRBC” differ from any applicable requirements contained elsewhere within the specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.
- D. All other portions of Section 201 not mentioned below are not to be considered part of the Specifications.

PART 2 – PRODUCTS

2.01 MATERIALS (None)

PART 3 – EXECUTION

3.01 CONSTRUCTION

- A. Furnish all labor, materials, tools and equipment necessary to perform clearing, grubbing, protecting trees, vegetation, and objects designated to remain, removing and disposing of vegetation, debris, and unwanted material from right-of-way, and borrow pits, and other areas designated in the contact documents or by the Engineer.
- B. Work shall include but shall not be limited to the following sections:
 - 1. Vector Control Section 201.03 (A)
 - 2. Best Management Practices (BMP).....Section 201.03 (B)
 - 3. LimitsSection 201.03 (C)
 - 4. Clearing Section 201.03 (D)
 - 5. Grubbing Section 201.03 (E)
 - 6. Removal and Disposal of Material Section 201.03 (F)
 - a. Remove material and debris and dispose of at an authorized site.
 - b. All portions of this specification (i.e. Section 201.03 (F) shall remain the same.
 - 2. Subgrade Preparation Section 203.03 (D)

END OF SECTION

SECTION 02210 – EXCAVATION AND EMBANKMENT

PART 1 – GENERAL

1.01 SUMMARY

- A. This section includes excavating, hauling, and disposing of surplus excavated material; and placing and compacting specified materials necessary to construct the project in accordance with the Hawaii Standard Specification for Road and Bridge Construction, 2005 (HSSRBC), Section 203 and Section 106.
- B. Work shall include the items listed below, but shall not be limited to the following:
 - 1. Roadway excavation includes excavating and compacting, or disposing of, all materials whatever character encountered in the work.
 - 2. For terminology used in this section, refer to Section 101 – Terms, Abbreviations and Definitions and ASTM D 653.
- C. Where the reference provisions of the “HSSRBC” differ from any applicable requirements contained elsewhere within the specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.
- D. All other portions of Section 203 and Section 106 not mentioned below are not to be considered part of the Specifications.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. The Materials portion of this specification shall include, but not be limited to the following:
 - 1. Cullet and Cullet-Made Materials... Section 717
 - 1. Excavated Material..... Section 203.02 (A)
 - 2. Selected Material Section 203.02 (B)
 - 3. Borrow Excavated Material..... Section 203.02 (C)
- B. Material Restrictions and Requirements shall conform to, but not be limited to HSSRBC Section 106. The following sections shall apply herein:
 - 1. Source of Supply and Quality Requirements Section 106.01
 - 2. Material Sources Section 106.02
 - 3. Unauthorized Excavation Section 106.03
 - 4. Notice of Change Section 106.06
 - 5. Certificate of Compliance Section 106.07
 - a. The Contractor shall submit a Certificate of Compliance from the manufacturer, supplier or both for all materials in lieu of samples in accordance with this specification.
 - 6. Non-Conforming Material Section 106.08

PART 3 – EXECUTION

1.01 CONSTRUCTION

- A. Furnish all labor, materials, tools and equipment necessary to excavate and construct embankment for roads, road intersections, and road entrances to a smooth and uniform surface in accordance with the HSSRBC, Section 203.03 unless otherwise specified. Excavate so as not to disturb material outside limits of slopes or limits of grading. Excavation shall include the scraping of the old AC pavement from the gun turrets' concrete pad surface located in the parking lot by whatever means possible to complete the work. The gun turrets' concrete pad area is shown approximately on the plans. The Contractor shall take whatever means necessary to determine the extent of the scraping/excavation to complete the construction of the new pavement section over the concrete pad area.

- B. Work shall include but shall not be limited to the following sections:
 - 1. ExcavationSection 203.03 (A)
 - 2. Excavated Material..... Section 203.03 (B)
 - 3. Embankment Construction Section 203.03 (C)
 - a. General Section 203.03 (C)(1)
 - b. Soils Testing. Testing of the fill material for conformance to the Specifications and monitoring of all backfill, including compaction, shall be the responsibility of the Contractor. All test results shall be submitted to the Engineer for record purposes. All costs for soils inspection and testing during construction shall be borne by the Contractor.
 - c. Test Locations. The Engineer is entitled to dictate which areas of fill are to be tested during the time when the soils tests are to occur.

 - 4. Subgrade Preparation Section 203.03 (D)

END OF SECTION

SECTION 02211 – EXCAVATION AND BACKFILL FOR DRAINAGE STRUCTURES

PART 1 – GENERAL

1.01 SUMMARY

- A. This section includes: (1) excavating and backfilling to depths and lines established for drainage structure foundations and (2) excavating and backfilling trenches for culverts, culvert headwalls and hand-laid and dumped rip-rap and drainage structures in accordance with the Hawaii Standard Specification for Road and Bridge Construction, 2005 (HSSRBC), Section 206 – Excavation and Backfilling for Drainage Structures.
- B. Where the reference provisions of the “HSSRBC” differ from any applicable requirements contained elsewhere within the Specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.
- C. Reference Specification: Section 603 – Culverts and Storm Drains particularly:
 - 1. Section 603.03 Construction
 - a. (A) Excavation
 - b. (B) Laying Bed Course Material
 - c. (I) Backfilling
- D. All other portions of Section 206 not mentioned below are not to be considered part of the Specifications.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. The Materials portion of this Specification shall include, but not be limited to the following:
 - 1. Structure Backfill Material..... Section 703.20
 - 2. Trench backfill Material Section 703.21
 - 3. Cullet and Cullet-Made Material Section 717

Structure and trench backfill material shall include a mixture of aggregate and cullet. When cullet is not produced on the project island, or material unit price of cullet is greater than material unit price of structure backfill or greater than material unit price of trench backfill, cullet may be excluded for that backfill application. Before excluding cullet, submit availability and pricing documentation.

PART 3 – EXECUTION

3.01 CONSTRUCTION

- A. Furnish all labor, materials, tools and equipment necessary to excavate and backfill drainage structures and trenches for drainage structures including hand-laid and dumped rip-rap in accordance with the HSSRBC, Section 206.03 unless otherwise specified. Excavate so as not to disturb material outside limits of slopes or limits of grading. Notify the Engineer 10 working days before excavating for drainage structures.

- B. Work shall include but shall not be limited to the following:
 - 1. Cleaning Culverts. Clean, remove and dispose of silt, trash, vegetation growth from existing culverts and adjoining drainage structures within project limits. Clean by manual or mechanical means. Discharge of debris or wash water during culvert cleaning into stream, ocean, or State of Hawaii waters will not be allowed.

 - 2. Structure and Trench Excavation Section 206.03 (A)(1&2)

 - 3. Structure and Trench Backfill.....Section 206.03 (B)
 - a. Soils Testing. Testing of the fill material for conformance to the project specification and monitoring of all backfill, including compaction, shall be the responsibility of the Contractor. The testing shall be overseen by an independent licensed professional Civil Engineer with a geotechnical background or a testing laboratory accredited by the State Department of Transportation. All test results shall be submitted to the Construction Manager for record purposes. All costs for soils inspection and testing during construction shall be borne by the Contractor.
 - b. Test Locations. The Engineer is entitled to dictate which areas of fill are to be tested during the time when the soils tests are to occur.

END OF SECTION

SECTION 02212 – DRESSING OF SHOULDERS

PART 1 – GENERAL

1.01 SUMMARY

- A. This section describes shaping, grading, filling, and compacting unpaved shoulders in accordance with the Hawaii Standard Specification for Road and Bridge Construction, 2005 (HSSRBC), Section 203.
- B. Where the reference provisions of the “HSSRBC” differ from any applicable requirements contained elsewhere within the Specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Use suitable material from roadway excavation, including topsoil and base materials salvaged from this project. HMA pavement removed by cold planning, from reconstruction, and from roadway excavation shall be considered extra surplus excavation material and shall be disposed of as specified in Section 203 – Excavation and Embankment, unless otherwise indicated in the contract documents. Use additional materials from borrow excavation or as ordered by the Engineer.

PART 3 – EXECUTION

3.01 CONSTRUCTION

- A. Furnish all labor, materials, tools and equipment necessary to shape, grade, fill, and compact shoulders after completion of or in conjunction with the pavement resurfacing.

Place shoulder material uniformly in loose layers not to exceed 8 inches in thickness. Compact each layer until relative compaction of 95 percent or more is achieved. Finish shoulders and slopes, including ditches where necessary, to a smooth and uniform surface that will merge with adjacent slopes. Correct variations to within one-tenth of a foot in elevation or alignment to conform to typical sections indicated in the contract documents.

Correct irregularities in the surface, if any, resulting from grading, filling, and compaction to prevent formation of depressions or water pockets. Repair damage to the shoulder surface or pavement due to the construction operations.

END OF SECTION

SECTION 02310 – TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL

PART 1 – GENERAL

1.01 SUMMARY

- A. Furnish, install, maintain and subsequently remove temporary water pollution, dust and erosion control devices in accordance with the Standard Specification for Road and Bridge Construction, 2005 (HSSRBC), Section 209.01.
- B. Work shall include the items listed below listed below, but shall not be limited to the following:
 1. Written site-specific best management plans (BMP).
 2. Control measures to be applied to any haul roads, work areas.
 3. Removal and disposal of hazardous wastes.
- C. Where the reference provisions of the “HSSRBC” differ from any applicable requirements contained elsewhere within the specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.
- D. All other portions of Section 209 not mentioned below are not to be considered part of the Specifications.

PART 2 – PRODUCTS

2.01 MATERIAL

- A. Furnish all materials necessary to construct work zone traffic control in accordance with the HSSRBC, with the following sections unless otherwise specified.
 - MulchesSection 209.02 (B)
 - Grass Section 209.02 (C)
 - Fertilizer and Soil ConditionersSection 209.02 (D)
 - Hydro-mulching Section 209.02 (E)
 - Silt FencesSection 209.02 (F)
 - BermsSection 209.02 (G)
 - GeotextilesSection 716
 - Bed Course Material for Crushed Rock Cradle Section 703.16
- B. Items not listed above such as Filter Socks, Wash Racks (corrugated steel panels), etc. that are to be used as pollution control methods will require submittals of catalog cuts, product data, manufacturer’s technical literature and reports for testing and/or maintenance.
- B. Alternative materials or methods to control, prevent, remove and dispose of pollution are allowable, if acceptable to Engineer.

PART 3 – EXECUTION

3.01 CONSTRUCTION

- A. Furnish all labor, materials, tools and equipment necessary to construct Water Pollution, Dust and Erosion Control measures in accordance with the HSSRBC, Section 209.03 unless otherwise specified.

- B. Work shall include but shall not be limited to the following sections:
 - 1. Preconstruction Requirements..... Section 209.03 (A)
 - 2. Construction Requirements..... Section 209.03 (B)

END OF SECTION

SECTION 02730 – HOT MIX ASPHALT BASE COURSE

PART 1 – GENERAL

1.01 SUMMARY

- A. Construct hot mix asphalt base course in accordance with the requirements of the “Hawaii Standard Specifications for Road and Bridge Construction, 2005” (HSSRBC), Section 301.
- B. Where the reference provisions of the HSSRBC differ from any applicable requirements contained elsewhere within the specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Furnish all materials necessary to construct hot mix asphalt base course in accordance with the following sections of the current HSSRBC, unless otherwise specified:
 - 1. Asphalt Cement.....Section 702.01
 - 2. Aggregate for Hot Mix Asphalt Base Course... Section 703.03

PART 3 – EXECUTION

3.01 WORKMANSHIP

- A. Furnish all labor, materials, tools and equipment necessary to construct hot mix asphalt base course in accordance with the following sections of the current HSSRBC.
- B. Work shall include the following sections:
 - 1. Description Section 301.01
 - 2. Materials... Section 301.02
 - 3. ConstructionSection 301.03
 - a. Compaction Testing. Testing of the base material for conformance to the Specifications and monitoring of compaction, shall be the responsibility of the Contractor. The testing shall be overseen by an independent licensed professional Civil Engineer with a geotechnical background or a testing laboratory accredited by the State Department of Transportation. All test results shall be submitted to the Construction Manager for record purposes. All costs for soils inspection and testing during construction shall be borne by the Contractor.
 - b. Test Locations. The Engineer is entitled to dictate which areas of base course are to be tested during the time when the compaction tests occur.
- C. All other portions of Section 301 not mentioned above are not to be considered part of the Specifications.

END OF SECTION

SECTION 02740 – HOT MIX ASPHALT PAVEMENT

PART 1 – GENERAL

1.01 SUMMARY

- A. Construct asphalt pavement in accordance with the requirements of the “Hawaii Standard Specifications for Road and Bridge Construction, 2005” (HSSRBC), Section 401.
- B. Where the reference provisions of the HSSRBC differ from any applicable requirements contained elsewhere within the specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Furnish all materials necessary to construct asphalt pavement in accordance with the HSSRBC Section 401.02, unless otherwise specified and include the following specifications:
 - 1. Asphalt Cement.....Section 702.01
 - 2. Emulsified Asphalt.....Section 702.04
 - 3. Aggregate for Hot Mix Asphalt PavementSection 703.09

PART 3 – EXECUTION

3.01 CONSTRUCTION

- A. Furnish all labor, materials, tools and equipment necessary to construct asphalt pavement in accordance with HSSRBC, Section 401.03
- B. Work shall include but shall not be limited to the following sections:
 - 1. Weather Limitations.....Section 401.03 (A)
 - 2. Equipment.....Section 401.03 (B)
 - 3. Preparation of SurfaceSection 401.03 (C)
 - 4. Plant OperationSection 401.03 (D)
 - 5. Spreading and FinishingSection 401.03 (E)
 - 6. Compaction.....Section 401.03 (F)
 - a. Compaction Testing. Testing of compaction for conformance to the project specification shall be the responsibility of the Contractor. All test results shall be submitted. All costs for soils inspection and testing during construction shall be borne by the Contractor.
 - b. Test Locations. The Engineer is entitled to dictate which areas of pavement are to be tested during the time when the tests are to occur.

- 7. Joints, Trimming Edges, and Utility Marking..... Section 401.03 (G)
 - 8. HMA Pavement Samples (Not Used)
 - 9. HMA Pavement Surface and Thickness Tolerances Section 401.03 (I)
 - 10. Protection of HMA Pavement..... Section 401.03 (J)
- C. All other portions of Section 401 not mentioned above are not to be considered part of the Specifications.

END OF SECTION

SECTION 02741 – TACK COAT

PART 1 – GENERAL

1.01 SUMMARY

- A. Apply tack coat in accordance with the requirements of the “Hawaii Standard Specifications for Road and Bridge Construction, 2005” (HSSRBC) Section 407.
- B. Where the reference provisions of the HSSRBC differ from any applicable requirements contained elsewhere within the Specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Furnish all materials necessary to construct tack coat in accordance with the following sections of the current HSSRBC, unless otherwise specified:
 - 1. Emulsified Asphalt
(Type SS-1, SS-1h, CSS-1 or CSS-1h).....Section 702.04
 - 2. Water Section 712.01

PART 3 – EXECUTION

3.01 WORKMANSHIP

- A. Furnish all labor, materials, tools, and equipment necessary to apply tack coat in accordance with the following section of the current HSSRBC, except 407.04 and 407.05.
 - 1. Tack Coat Section 407

END OF SECTION

SECTION 02750 – TRAFFIC CONTROL, REGULATORY, WARNING AND MISCELLANEOUS SIGNS

PART 1 – GENERAL

1.01.1 SUMMARY

- A. Install traffic signs in accordance with the requirements of the “Hawaii Standard Specifications for Road and Bridge Construction, 2005”.
- B. Where the referenced provisions of the HSSRBC differ from any applicable requirements contained elsewhere within the Specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Furnish all materials necessary to install traffic signs in accordance with following section of the current HSSRBC, unless otherwise specified;
 - 1. Signs..... Section 750.01
 - 2. Sign Posts.....Section 750.02
 - 3. Fasteners for Signs and Route Markers Section 750.03Retroreflective sheeting shall conform to AASHTO M 268 or as amended in accordance with Subsection 750.01 – Signs.
- B. Signs shall conform to the latest edition of the “Manual on Uniform Traffic Control Devices,” when applicable.

PART 3 – EXECUTION

3.01 WORKMANSHIP

- A. Furnish all labor, materials, tools, and equipment necessary to install traffic signs in accordance with the following sections of the current HSSRBC:
- B. Work shall include the following sections:
 - 1. Descriptions..... Section 631.01
 - 2. Materials..... Section 631.02
 - 3. Construction
 - a. Sign Supports
 - i. Sign Posts..... Section 631.03(A)(1)(a)
 - b. Splicing of Reflective Sheeting Material Section 631.03(B)
- C. All other portions of Section 631 not mentioned above are not to be considered part of the Specifications.

END OF SECTION

SECTION 02751 – PAVEMENT MARKINGS

PART 1 – GENERAL

1.01 SUMMARY

- A. Construct pavement marking work as indicated on or required by the drawings to facilitate construction of the proposed work in accordance with the requirements of the “Hawaii Standard Specifications for Road and Bridge Construction 2005 (HSSRBC).
- B. Work shall include but shall not be limited to the following:
 - 1. Temporary Pavement Markings
 - 2. Permanent Pavement Markings
- C. Where the reference provisions of the “HSSRBC” differ from any applicable requirements contained elsewhere within the Specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Furnish all materials necessary to construct pavement markings in accordance with the “HSSRBC,” unless otherwise specified.
 - 1. Preformed Pavement Marking Tape (Temporary only)Section 755.04
 - 2. Retroreflective Thermoplastic Compound Pavement Markings -
(White and Yellow) Section 755.05

PART 3 – EXECUTION

3.01 CONSTRUCTION

- A. Furnish all labor, materials, tools and equipment necessary to construct pavement markings in accordance with the “HSSRBC,” unless otherwise specified.
- B. Work shall include but shall not be limited to the following sections:
 - 1. General Section 629.03 (A)
 - 2. Temporary Pavement Markings Section 629.03 (B)
 - 3. Permanent Pavement markingsSection 629.03 (C)
- C. All other portions of Section 629 not mentioned above are not to be considered part of the Specifications.

END OF SECTION

SECTION 02990 – MOBILIZATION

PART 1 – GENERAL

1.01 SUMMARY

- A. Mobilization for this project shall be performed in accordance with the requirements of the “Hawaii Standard Specifications for Road and Bridge Construction, 2005 (HSSRBC),” Section 699.
- B. Where the referenced provisions of the HSSRBC differ from any applicable requirements contained elsewhere within the Specifications, the most stringent criteria shall be considered to govern, unless otherwise approved by the Engineer. All references to measurements and payment shall be deleted.
- C. Contractor shall submit a Schedule of Prices wherein the amount to be paid for this item does not exceed 10 percent of the sum of all items excluding the price of this item and the cost of any alternates.

1.02 PART 2 – PRODUCTS

2.01 MATERIALS (NOT USED)

PART 3 – EXECUTION

3.01 WORKMANSHIP (NOT USED)

END OF SECTION

END OF SPECIFICATIONS
JB