

1 Make the following Section a part of the Standard Specifications:

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3 **“SECTION 219 – DETERMINATION AND CHARACTERIZATION OF FILL**
4 **MATERIAL**

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7 **219.01 Description.** This section describes determination and characterization
8 of fill material for project sites.

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10 Requirements of this section apply to all waste generated from construction
11 and demolition (C&D) activities on the project.

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13 **219.02 Definitions.**

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15 **(A) Inert Fill Material.** Inert Fill Material is defined in the Hawaii Revised
16 Statutes (HRS) 342H-1. Materials that do not meet this definition shall be
17 disposed of at the appropriate Hawaii Department of Health (HDOH) Solid
18 and Hazardous Waste Branch permitted solid waste management facility.

19
20 The January 2008 State of Hawaii Department of Transportation,
21 Highways Division, Construction Best Management Practices Field Manual,
22 specifies inert fill material shall not be contaminated with asbestos or lead-
23 based paint. In addition, inert fill materials do not decompose or produce
24 leachate or other products harmful to the environment.

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26
27 **219.03 Construction.**

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29 **(A) Preconstruction Requirements.** Retain the services of an
30 Environmental Professional as accepted by the Engineer. Submit
31 documentation the Environmental Professional has a minimum of five (5)
32 years of experience in solid and hazardous waste management and fill
33 material characterization within 30 calendar days of contract certification
34 date.

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36 **(B) Construction Requirements.**

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38 **(1) Reclassification of Solid Waste into Inert Fill Material.** If
39 reclassifying solid waste as inert fill, obtain written acceptance from
40 the Engineer before following the requirements of Section
41 219.03(B)(2) Inert Fill Material.

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43 **(2) Inert Fill Material.** The State reserves the right to reject
44 imported fill from sources known to contain hazardous material or if
45 any of the requirements in this specification are not met. The source
46 and/or stockpiled location of the material shall remain accessible at all
47 times to State personnel for sampling, testing, and inspection as

determined by the Engineer. Prior to importing/removal of material, the Contractor shall provide the specific location and quantity of material that is to be transported to/from the project site.

(a) Certificates. Provide a written certificate indicating that the fill material meets the inert fill material definition specified herein. The written certificate shall include a description of the evidence (including but not limited to historical documentation of land use, test results, fill material characterization report, and/or Phase I Environmental Site Assessment) used by the Contractor to determine that the fill material is inert fill material. The written certificate shall be prepared and signed by an Environmental Professional. Submit the written certificate to the Engineer 14 calendar days before the fill material is imported to or removed from the project site. Do not import the fill material to, or export the fill material from the project site until the Engineer has accepted the certificate. Revise the written certificate as requested by the Engineer until the Engineer has accepted the certificate at no additional cost to the State. If the Engineer does not accept the certificate, the fill material shall not be considered inert fill material; and the Contractor shall dispose of the fill material in accordance with all applicable Federal, state, and Local laws and regulations at no additional cost to the State.

(b) Documentation. Provide documentation that the material will be taken to a properly permitted site. At minimum the documentation shall include the location of the disposal site (name, address, Tax Map Key No., telephone number, and map) with a revised Solid Waste Disclosure Form to indicate the material that was reclassified as inert fill and the location that the inert fill will be taken to.

(c) Laboratory Certification. Samples shall be tested by a laboratory certified to perform the specific analyses.

(d) Hawaii Department of Health Guidance Documents. The HDOH has published guidance documents for the characterization of fill material and construction and demolition (C&D) waste. Comply with all applicable Federal, State, and Local laws and regulations. The procedures of the most recent versions of the following guidance documents or their replacements for the determination and characterization of the fill material or waste may be used as a reference:

1. Guidance for Soil Stockpile Characterization and Evaluation of Imported and Exported Fill Material.

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96 2. Evaluation of Fill Material for Chemical
97 Contaminants (Fact Sheet).
98

99 3. Guidance for Construction & Demolition (C&D)
100 Waste Disposal.
101

102 4. Technical Guidance Manual for the
103 Implementation of the Hawai'i State Contingency Plan.
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105 Obtain and follow the latest versions of the applicable
106 HDOH guidance documents.
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108 **219.04 Measurement.** Determination and characterization of fill material will be
109 paid on a lump sum basis. Measurement for payment will not apply.
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111 **219.05 Payment.** The Engineer will pay for the accepted pay items listed below
112 at contract price per pay unit, as shown in the proposal schedule. Payment will be
113 full compensation for work prescribed in this section and contract documents.
114

115 The Engineer will pay for the following pay item when included in proposal
116 schedule:
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| 118 Pay Item | 119 Pay Unit |
|---|--------------|
| 120 Determination and Characterization of Fill Material | 121 Lump Sum |

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123 The Engineer may assess liquidated damages up to \$27,500 per day for non-
124 compliance of each requirement and all other requirements in this section.”
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127 **END OF SECTION 219**