SECTION 205 – EXCAVATION AND BACKFILL FOR BRIDGE AND RETAINING STRUCTURES

Make the following amendments to said Section:

(I)   Amend **205.01 Description** by revising subparagraph (A) between lines 5 and 8 to read as follows:

>   "(A)   Excavating and backfilling to depths and lines established for bridge, overhead-mounted expressway sign, retaining (reinforced concrete or cement rubble masonry) structures, foundations, and box culverts."

(II)   Amend **205.03(A)(1) General** by adding the following paragraph after line 47 to read as follows:

>   "The Contractor shall be responsible for protecting the sides of the excavations from cave-ins. If the Contractor decides to brace or shore the cut slope, the Contractor shall submit working drawings and calculations. The working drawings and calculations shall be stamped by a registered Hawaii Structural Engineer and a registered Civil Engineer specializing in Geotechnical Engineering in the State of Hawaii. If the Contractor decides not to brace the cut slope, the Contractor shall submit, when requested by the Engineer, calculations, showing the stability of the slope, stamped by a registered Civil Engineer specializing in Geotechnical Engineering in the State of Hawaii. The working drawings and calculations shall be reviewed and accepted by the Engineer before proceeding with the construction."

(III)   Amend **205.03(B)   Structure Backfill** by revising the lines 151 to 155 to read as follows:

>   "(B)   Structure Backfill.   Place structure backfill material A behind bridge abutments, wingwalls, and retaining structures. Do not deposit fill material against back of concrete abutments, piers, concrete box culverts, retaining structures, and foundations until the concrete has met the requirements in Subsection 503.03(E) – Loading."

(IV)   Amend **205.03(B)   Structure Backfill** by revising the second sentence of the second paragraph at lines 158 and 159 to read as follows:

>   "Continue backfilling so that unbalanced loads due to uneven or unsymmetrical lifts do not exceed 16 inches in height."

(V)   Amend **Section 205.03(C) Filter Material** by revising the first sentence to read as follows:

46   "Place backfill filter material at bridge and retaining structures in
47   accordance with the contract documents."
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49 **(VI)** Amend **205.04** **Measurement** to read as follows:
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51 "**205.04 Measurement.**
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53   **(A)** **Structure Excavation.** The quantity to be paid for structure
54   excavation is the quantity shown in the proposal schedule. The contract
55   quantity will be adjusted for authorized changes that affect the quantity or
56   for errors made in computing this quantity. If there is evidence that a
57   quantity specified as a contract quantity is incorrect, submit calculations,
58   drawings, or other evidence indicating why the quantity is in error and
59   request, in writing, that the quantity be adjusted.
60
61   **(B)** **Structure Backfill.** The quantity to be paid for structure backfill is
62   the quantity shown in the proposal schedule. The contract quantity will be
63   adjusted for authorized changes that affect the quantity or for errors made
64   in computing this quantity. If there is evidence that a quantity specified as
65   a contract quantity is incorrect, submit calculations, drawings, or other
66   evidence indicating why the quantity is in error and request, in writing, that
67   the quantity be adjusted."
68
69 **(VII)** Amend **205.05** **Payment** to read as follows:
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71 "**205.05 Payment.** The Engineer will pay for the accepted pay items listed
72 below based on the contract unit price per pay unit, as shown in the proposal
73 schedule. Payment will be full compensation for the work prescribed in this
74 section and the contract documents.
75
76   The Engineer will pay for the following pay items when included in the
77 proposal schedule:
78

Pay Item	Pay Unit
Structure Excavation for _____	Cubic Yard
Structure Backfill for _____	Cubic Yard"

END OF SECTION 205