

1 **SECTION 411 - PORTLAND CEMENT CONCRETE PAVEMENT**

2
3 Make the following amendments to said Section:

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5 **(I)** Amend **Subsection 411.03(A) — Paving Plan** by adding the following after line
6 38:

7
8 **"(7)** Certified Concrete Flatwork Finisher Requirement. Perform the
9 placement and finishing operations of concrete flatwork with a minimum
10 ratio of one certified ACI Concrete Flatwork Finisher and Technician with
11 4,500 hours of acceptable work experience (certified craftsman) per three
12 concrete finishers (concrete finishers without ACI Concrete Flatwork
13 Finisher and Technician certification and 4,500 hours of acceptable work
14 experience) at each location on the project site having flatwork done. The
15 concrete flatwork shall be under the direct supervision of a certified
16 craftsman. Designate the certified craftsman who will be supervising and
17 responsible for determining the quality of the finish of the concrete flatwork
18 being performed. No flatwork shall be performed without the required
19 amount of certified craftsman present.

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21 a. Flatwork concrete is defined as any concrete work that requires
22 tools or machines to be used during the placement and finishing
23 operations of concrete. Concrete flatwork includes concrete work
24 that requires a specified finishing, smoothness or rigid surface
25 tolerances such as sidewalks, walkways, portland cement
26 concrete pavement, concrete white-topping, girder seats, pier
27 caps, bridge decks, on-grade concrete slabs, approach slabs,
28 concrete overlays, and concrete repairs which exceed one
29 square foot per day.
- 30
31 b. Areas that are not considered flatwork concrete are the top of
32 foundations or structures that will have backfill material placed
33 directly on the concrete surface.
- 34
35 c. Submit copies of the craftsman's current ACI certification 30 days
36 before concrete flatwork begins for the Engineer's review and
37 acceptance. The Engineer has the right to require the removal,
38 replacement, retraining and re-certification of a certified
39 craftsman if that person does not, in the opinion of the Engineer,
40 demonstrate the ability to place and finish concrete in accordance
41 with the practices recommended in the ACI Concrete Flatwork
42 Finisher Certification Program and to meet the finishing
43 standards required by the contract documents.
- 44
45 d. Any cost or impact to the contractor in providing, training,
46 certification, retraining, replacement, or re-certification is
47 incidental to the contract items that require concrete flatwork.

(II) Amend **Subsection 411.03(I)(1) — General** by revising the first paragraph from line 205 to 210 to read:

"(1) General. Make advance arrangements for preventing delay in concrete delivery and placement. An interval of more than 30 minutes between placement of two consecutive batches or loads shall constitute cause for stopping paving operations and requiring construction joint to be placed, at no increase in contract price or contract time, at location and of the type ordered by the Engineer."

(III) Amend **Subsection 411.03(M) — Final Strike-Off, Consolidation, and Finishing** by adding the following after Line 629:

"(6) Evaporation Retarders and Finishing Aids. Evaporation retarders and finishing aids solutions may be used. Adjust dilution rates to fit local climate. Evaporation retarders and finishing aids shall not be used interchangeably, using them interchangeably will damage the concrete surface and shall be cause for the pavement being non-compliant and its removal or remedial repair."

(IV) Amend **Subsection 411.03(M) — Final Strike-Off, Consolidation, and Finishing** by revising the subsection title on line 631 to read:

"(7) Straightedge Testing and Surface Correction."

(V) Amend **Subsection 411.03(M) — Final Strike-Off, Consolidation, and Finishing** by revising the subsection title on line 646 to read:

"(8) Final Finish."

(VI) Amend **Subsection 411.03(M) — Final Strike-Off, Consolidation, and Finishing** by revising the subsection title on line 631 to read:

"(9) Edging at Forms and Joints."

(VII) Amend **411.04 — Measurement** by revising lines 955 to 961 to read as follows:

"411.04 Measurement.

(A) The Engineer will measure concrete pavement per cubic yard in accordance with the contract documents."

(VIII) Amend **411.05 — Payment** by revising lines 971 to 983 to read as follows:

"Pay Item	Pay Unit
11-Inch Portland Cement Concrete Pavement (Bus Pad)	Cubic Yard
4-Inch Portland Cement Concrete Pavement (Center Island)	Cubic Yard

The Engineer will not pay for longitudinal joints, transverse expansion joints, transverse contraction joints, or construction joints separately and will consider the cost for those items as included in the contract price for the concrete pavement pay item. The cost is for the work prescribed in this section, Section 411 — Portland Cement Concrete Pavement, and the contract documents."

END OF SECTION 411