

3470204 PORTLAND CEMENT CONCRETE – CLASS NS
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Anonymous

Comments: (1-19-15)

Was wondering if the placement time should be similar to the 2014 change to Spec 346? This would give the contractors a 15 minute window to complete the placement, since the 90min and the 120min have always been the cutoff for transit, etc. of 346 and 347 respectively. If not going to cause material degradation and concrete remains workable, might be something to consider to give contractors a chance to get used to this change. 2015 346 Spec and 347 proposed Spec change below. 346-7.2.2 Placement Time: All the concrete in a load must be in its final placement position a maximum of 15 minutes after the transit time has expired unless a time extension is approved in advance by the Engineer. 347-3.3 Delivery: The maximum allowable mixing, and agitation, and placement time of concrete is 120 minutes.

Response:

Neil Monkman

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Comments: (2-6-15)

As long as we are revising the 347 specification, I believe the verbiage related to compressive strength needs to be revised as well.

347-3.1 allows the use of structural concrete in lieu of non-structural concrete, but acceptance is based on 347 which would be 347-5.1. The certification is considered acceptance. The spec states "The Engineer will hold the contractor responsible for rejecting loads that do not meet the minimum compressive strength requirements".

Question: How would anyone know if the "load" does not meet the 28 day requirement until cylinders are tested? The verbiage also seems to indicate that sampling and testing is a requirement by QC.

I suggest the following: Acceptance by the Department will be by Certification on the Delivery Ticket, as described herein, by the Batcher and the Contractor. The Engineer reserves the right to perform Independent Verification sampling and will hold the contractor responsible for concrete that does not meet the minimum compressive strength requirements. Delineate and replace, at no cost to the Department (continue as currently written)

Note that the reason this is important is that typically the contractor will not have their QC onsite to sample and test non-structural concrete due to the acceptance criteria nor would they be required to. However, VT may very well have the equipment available.

Response:

Alice Custis (via Deborah Ihsan)

FDOT, D4

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Comments: (2-11-15)

1. Section 347-3.1 – Recommend revising the sentence that currently states, “Within two hours prior to each day’s batching, ensure that the concrete production facility determines the free moisture for the coarse and fine aggregates.” To instead state: “Ensure that the concrete

production facility determines the free moisture for the coarse and fine aggregates within two hours prior to each day's batching."

Response:

2. Section 347-5.1 – Recommend revising the sentence that currently states, "If any uncontrolled cracks appear during the life of the Contract unacceptable to the Engineer...." To instead state: "If during the life of the Contract any uncontrolled cracks appear unacceptable to the Engineer..."

Response:
