

APPROVED:
Division Administrator

SUPPLEMENTAL SPECIFICATION

July 1, 2021

By: _____
FEDERAL HIGHWAY ADMINISTRATION

General

Delete Subsection 702.4.5 of the Standard Specifications in its entirety and replace it with the following:

702.4.5 Removal of Falsework and Forms

- 1 In order to obtain a satisfactory surface finish, remove the forms for ornamental work, railings, parapets, and other vertical surfaces that will be exposed in the finished work as soon as the concrete has hardened sufficiently to allow the removal of the forms without damaging the edges, corners, and faces of the concrete. Do not remove the forms in less than 5 hours, nor more than 48 hours, unless the concrete is poured on Friday, in which case the forms may be removed the following Monday. Column and pier forms may be removed after 24 hours.
- 2 Keep forms and falsework under slabs, decks, beams, girders, caps, arches, and structures or parts of structures carrying static dead loads in place until the concrete compressive strength reaches at least 75% of the design strength. Compressive strength verification for the removal of forms and falsework on bent caps and full-depth patches on bridge decks may be performed through the use of a calibrated rebound hammer in conformance with SC-T-49. Other nondestructive test methods may be used where rebound hammer is allowed with prior approval by the BCE. For all other elements referenced above, make additional test cylinders and cure under similar conditions for use in form and falsework removal strength determinations. Document and report the results of all strength tests performed by the Contractor to the RCE prior to removing forms and falsework, regardless of the test method.
- 3 The allowance for the use of the calibrated rebound hammer described above is strictly for removal of forms and falsework. Strength requirements for the addition of superimposed load as described in Section 702.4.6 shall be verified with concrete test cylinders.
- 4 Do not use methods of form and falsework removal that are likely to cause overstressing of the concrete. In general, remove the forms from the bottom upward. Do not remove forms without the consent of the RCE.
- 5 Strike falsework supporting concrete beams, slabs, and brackets that will support sidewalks, concrete railing, or other applicable items before the sidewalk, concrete railing, or the other items are cast.
- 6 Extra test cylinders for early form or falsework removal will be at no additional expense to the Department.