Current Issues: Odds and Ends

This issue will catch up on several odds and ends that have come up in the Resident Engineer Workshops and Structure Inspector Training.

1. The table above shows who is responsible for sending out the notification and acceptance forms for both Centrally Let and Division Let projects, as well as the required timetable.

2. Remember, on rehabilitation projects with multiple bridges you can wait until the final acceptance to send the acceptance notifications for all bridges together, but any change in vertical clearance must be sent in immediately.

3. There were questions regarding an incorrect height for guardrail anchor unit connections in the Standard Drawings. See [this Roadway Bulletin](#) for an explanation.

4. Grout samples are to be cubes, not cylinders. Cube molds can be ordered from the stock room on page 2 of [this form](#). The line number is 57 and the description reads “(2x2) Cube Mold (Elastomeric Use)”. Remember, grout for structures is a Type 3 grout and is covered in Section 1003 of the Spec Book. The 3-day samples are for early breaks, but 14 day samples are required for acceptance. Don’t use acceptance samples for early breaks.
Class Questions:

Question: What do I do about negative build-ups?

Answer:
Build-ups are the distance between the top of the girder and the theoretical bottom of slab elevation after the girder has deflected. This number is used to set deck pans, overhangs and grade the screed. Normally this number should always be positive, meaning the deck is higher than the top of the girder.

There are cases where this number is negative. This could be as a result of incorrect calculations, plan errors, extra camber in the girder, improperly graded splices in steel girders, and so on. While negative build-ups may not be a big deal you should notify the engineer any time you encounter them. In some cases, corrective action may be necessary. This will depend on the amount of the negative build-up and the girder type.

You may also encounter an excessively positive build-up. These can occur when there is a sag vertical curve in the alignment and significant camber in the girder. In this case the shear studs or stirrups on top of the girder may not properly engage the reinforcing steel in the deck.

In any of these cases the Area Construction Engineer will be happy to assist you in evaluating your specific situation.

Area Construction Engineers:

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New Videos:
New videos have been added to the Construction Unit YouTube playlist.
- Substructure Rehabilitation Part 2
- Substructure Rehabilitation Part 3
- Substructure Rehabilitation Part 4
- Superstructure Rehabilitation - Surface Preparation
- Superstructure Rehabilitation - Silane Overlay
- Superstructure Rehabilitation - epoxy overlays

Training:
Structure Inspector Training is now underway. It covers introductory level material designed for those with limited structure related experience. Details are still being worked out, so check back to see the schedule. Additionally, the CON 802 Basic Structure Inspection class has been revised as a companion to the class. It can be found here.

Structure Bulletins are now archived on the Construction Unit website under Construction Resources. Below is a QR code link to the Structure Bulletin Archive.

If you have a topic you would like to see addressed in a future edition of the Structure Bulletin please email us at either acochran@ncdot.gov or aearwood@ncdot.gov