
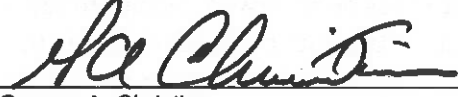


To: <p style="text-align: center;"><b>SUPERSEDED BY</b>  <u>EB 06-057</u>  <b>EFFECTIVE</b> <u>5/3/07</u></p>		New York State Department of Transportation <b>ENGINEERING          INSTRUCTION</b>	<b>EI</b> <b>03-010</b>
<b>Title: REINFORCEMENT INCLUDED WITH CONCRETE ITEMS AND NO BAR LIST IN PLANS</b>			
Distribution: <input type="checkbox"/> Manufacturers (18) <input type="checkbox"/> Surveyors (33) <input checked="" type="checkbox"/> Main Office (30) <input checked="" type="checkbox"/> Consultants (34) <input checked="" type="checkbox"/> Local Govt. (31) <input checked="" type="checkbox"/> Contractors (39) <input checked="" type="checkbox"/> Regions/Agencies (32) <input type="checkbox"/> ( )		Approved:  George A. Christian Acting Deputy Chief Engineer (Structures) <div style="float: right; text-align: right;"> <u>3/14/03</u>          Date       </div>	

**ADMINISTRATIVE INFORMATION:**

- This EI is effective with projects submitted for the letting of 09/11/03
- This EI does not supersede any issuances

**PURPOSE:**

This EI issues items for use when concrete reinforcing steel is included in the structural concrete item. It also issues modifications to Section 557 of the *Standard Specifications* to address the situation when bar lists are not included in the contract plans for superstructure and approach slabs.

**TECHNICAL INFORMATION:**

- Interim Guidance: No changes are required in on-going projects
- Actions by Designers: Regions may choose to progress projects without including reinforcing bar lists in the contract plans. If this option is chosen designers will use Item 16555.9701 M - Concrete for Structures Class HP (Reinforcement Included) and Item 16555.9702 M - Footing Concrete, Class HP (Reinforcement Included)

**IMPLEMENTATION:**

- Main Office DQAB will insert the revisions to Section 557 of the Standard Specifications as a shelf note when called for by the Estimate beginning with projects submitted for the letting of 09/11/03.
- The following specifications are disapproved:  
 08555.0104M - Footing Concrete, Class A (No Concrete Class Substitutions Permitted - Reinforcement Included)  
 08555.0105M - Concrete for Structures, Class A - (Reinforcement Included)  
 02555.0105M - Concrete for Structures, Class HP (Reinforcement Included)  
 16555.9601M - Concrete for Structures, Class HP (Galvanized Reinforcement Included)
- New Specifications: Items 16555.9701 M and 16555.9702 M may be used with projects beginning with the letting of 9/11/03.

**TRANSMITTED MATERIALS:**

- Shelf Note to modify part of Section 557
- Item 16555.9701 M - Concrete for Structures Class HP (Reinforcement Included)
- Item 16555.9702 M - Footing Concrete, Class HP (Reinforcement Included)

## EI 03-010 Page 2 of 2

**BACKGROUND:** In recent years some regions have chosen to prepare contract plans that do not contain reinforcing bar lists and comprehensive placement details for structures. While this practice has generally worked well, there have been some difficulties in the quality of the bar lists and placement drawings prepared by the reinforcing steel fabricator. The special specifications issued by this EI address this concern by requiring that the bar lists and placement drawings be prepared in accordance with the Concrete Reinforcing Steel Institute's Publication, *Reinforcing Bar Detailing*. In addition, the new specifications require that the bar lists and placement drawings be reviewed and approved for conformance with design requirements by the structure designer. Approval of bar lists by the designer is the standard practice in the building industry where bar lists and placement drawings are almost never included in the contract plans.

Structural Slab Items contained in Section 557 already include reinforcing bars in the concrete items. The new shelf note will cover situations where bar lists are not contained in the contract plans.

Guidance for designers on what to include and how to properly prepare contract plans without bar lists is contained in Structures Design Advisory 03-001. Structures Design Advisories are available on the Department web site. ([www.dot.state.ny.us](http://www.dot.state.ny.us))

The decision whether to progress a project without bar lists and placement drawings in lieu of the traditional procedure rests with the Regional office. However, if that option is exercised the contract plans will be prepared in accordance with the Structures Design Advisory and the attached specifications will be used. A note should be placed on the Preliminary Plan tear sheet stating that a bar list will not be included in the Contract Plans.

**CONTACT:** Direct questions regarding this Engineering Instruction to Arthur Yannotti in the Structures Division at (518) 457-4453 (e-mail [ayannotti@dot.state.ny.us](mailto:ayannotti@dot.state.ny.us))

Make the following changes to Volume 2 of 3 of the Standard Specifications of January 2, 2002:

Page 5-86 **Insert** the following after line 34:

557-3.16 **No Bar list provided.** When no bar lists are provided in the contract documents the following shall apply:

1. At least thirty (30) days prior to fabrication of the reinforcement the Contractor shall submit a minimum of two copies of the bar lists and placement drawings showing the bar locations to the Engineer. The details of the bar list and placement drawings shall meet the requirements of the current edition of the Concrete Reinforcing Steel Institute's publication Reinforcing Bar Detailing. Placement drawings shall be size "B". Drawings and bar lists shall be clear and legible.
2. Requests for information or changes along with reasons shall be documented in a separate list.
3. The Engineer will transmit the documents to the designer for review for conformance with the design requirements and in accordance with §105-16. The designer will not be checking lengths, number of bars, weights or bar marks. Corrections will be returned to the Contractor. When the documents are satisfactory they will be returned to the Contractor stamped "Approved In Conformance With Design Requirements". The Contractor shall supply the Engineer with five (5) copies of the approved documents. No reinforcement shall be placed until copies of the approved documents are received by the Engineer.
4. Partial submissions that require coordination with other drawings will not be accepted.

**ITEM 16555.9701M - CONCRETE FOR STRUCTURES, CLASS HP**  
**(REINFORCEMENT INCLUDED AND NO BAR LIST IN PLANS)**

**ITEM 16555.9702M - FOOTING CONCRETE, CLASS HP**  
**(REINFORCEMENT INCLUDED AND NO BAR LIST IN PLANS)**

**DESCRIPTION:**

This work shall consist of furnishing and placing Class HP concrete for structures, including steel reinforcement as indicated in the contract documents or as directed by the Engineer.

**MATERIALS:**

All the material requirements of §555-2 and §556-2 shall apply. If specified in the contract documents, galvanized reinforcement shall meet the requirements of §709-11.

**CONSTRUCTION DETAILS:**

If placement details and bar lists are not included in the contract plans, then the following provisions apply:

1. At least thirty (30) days prior to fabrication of the reinforcement the Contractor shall submit a minimum of two copies of the bar lists and placement drawings showing the bar locations to the Engineer. The details of the bar list drawing and placement shall meet the requirements of the current edition of the Concrete Reinforcing Steel Institute's publication Reinforcing Bar Detailing. Placement drawings shall be size "B". Drawings and bar lists shall be clear and legible.
2. Requests for information or changes along with reasons shall be documented in a separate list.
3. The Engineer will transmit the documents to the designer for review for conformance with the design requirements and in accordance with §105-16. The designer will not check lengths, number of bars, weights or bar marks. Corrections will be returned to the Contractor. A review time of two days per placement drawing submitted with a minimum of 15 days for each submission will be allowed upon receipt of the submission. When the documents are satisfactory they will be returned to the Contractor stamped "Approved In Conformance With Design Requirements". The Contractor shall supply the Engineer with five (5) copies of the approved documents. No reinforcement shall be placed until copies of the approved documents are received by the Engineer.

**ITEM 16555.9701M - CONCRETE FOR STRUCTURES, CLASS HP**  
**(REINFORCEMENT INCLUDED AND NO BAR LIST IN PLANS)**

**ITEM 16555.9702M - FOOTING CONCRETE, CLASS HP**  
**(REINFORCEMENT INCLUDED AND NO BAR LIST IN PLANS)**

4. Construction details for reinforcing steel shall meet the requirements of §556-3. The reinforcement shall be of the type indicated in the contract documents.
5. Partial submissions that require coordination with other drawings will not be accepted.
7. All the provisions of §555-3 shall apply.

**METHOD OF MEASUREMENT:**

All the provisions of §555-4 shall apply. Separate measurement of the bar reinforcement will not be made.

**BASIS OF PAYMENT:**

All the provisions of § 555-5 shall apply, except that bar reinforcement will be included. No separate payment will be made for reinforcement.

