



Connecticut DOT

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Bureau of Engineering and Construction

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ENGINEERING & CONSTRUCTION BULLETIN

Assistant Chief Engineer

January 2022 Supplements to the Standard Specifications, Form 818

The January 2022 Supplements to the Standard Specifications for Roads, Bridges, Facilities and Incidental Construction, Form 818, have been approved. A searchable PDF document is posted on the Department's Internet site "[Doing Business With CTDOT, Standards and Specifications.](#)" No hard copies will be available.

The online postings for January 2022 include:

1. Stand-alone January 2022 Supplements
2. Form 818 with January 2022 Supplement changes in **purple text** (printable version, with notes pages)
3. January 2022 List of Major Changes (attached)

Printed copies can be made on your own.

Projects with Final Design Plan (FDP) dates of **May 11, 2022** or later shall reference the January 2022 Supplemented Standard Specifications, Form 818 in the Contract.

**PROJECTS WITH FINAL DESIGN PLAN (FDP) DATES
BETWEEN DECEMBER 2, 2021 AND MAY 10, 2022
MUST REFERENCE THE JULY 2021 SUPPLEMENTAL SPECIFICATIONS.**

SUMMARY OF CHANGES
January 2022 SUPPLEMENTS TO FORM 818
EFFECTIVE FOR FDP DATES ON or AFTER MAY 11, 2022

**PROJECTS WITH FINAL DESIGN PLAN (FDP) DATES
BETWEEN DECEMBER 2, 2021 AND MAY 10, 2022
MUST REFERENCE THE JULY 2021 SUPPLEMENTAL SPECIFICATIONS.**

SECTION 1.05 – CONTROL OF THE WORK

Revised Article 1.05.19 to clarify that the AISC Bridge Erection Endorsement is only required for field erection of steel bridge girders, beams, or trusses, and for fabricated components of overhead signs.

SECTION 1.20-1.05 – CONTROL OF THE WORK FOR FACILITIES CONSTRUCTION

Revised language in 1.20-1.05.05 to clarify that the Facilities contractor is responsible to provide as-built conditions drawings. Also removed language for submitting a Record Survey.

SECTION 1.20-9.80 – CONSTRUCTION SURVEYING FOR FACILITIES CONSTRUCTION

Removed language in 1.20-9.80.03 requiring the submission of Project Record Drawings (already required in Article 1.20-1.08.14) and removed requirement for an A-2 survey.

SECTION 2.11 - ANTI-TRACKING PAD

Revised “turf establishment” to “seeding” and other minor revisions.

SECTION 4.01 – CONCRETE FOR PAVEMENT

Deleted this section so that a special provision, owned by Pavement Design Unit, will be used.

SECTION 5.14 - PREFABRICATED CONCRETE STRUCTURAL COMPONENTS and SECTION M.14 - PREFABRICATED CONCRETE MEMBERS

Major updates for both Sections.

- In Section 5.14, rearranged subarticles to address required Submittals first under Construction Methods; added requirements for precast components (previously this Section only addressed prestressed); directed that project-specific information (such as whether dry fit is required) will be as specified on the Plans. The following items are added to the List of Standard Items:
 - o Precast Approach Slab
 - o Precast Concrete Walls
 - o Precast Substructure Element
 - o Precast Concrete Three-Sided Rigid Frame
- In Section M.14, introduced Class PRC nomenclature to emphasize precast concrete and to differentiate it from Class PCC nomenclature for cast-in-place concrete

SECTION 6.01 - CONCRETE FOR STRUCTURES and SECTION M.03 - PORTLAND AND HYDRAULIC CEMENT CONCRETE

Major revisions in Section 6.01:

- emphasis added that 6.01 is for cast-in-place concrete for structures (not precast)
- clarified that contractor is responsible for workability / slump of the plastic concrete
- revised language allowing addition of water to the concrete mix on site by the producer's "QC staff or representative"
- allowing addition of air entrainment admixture on site by the producer's QC staff "or representative"
- removed slump limits in Table 6.01.03-2 as contractor is responsible for workability
- added sentence that the results of testing on the Department's QA testing cylinders "shall not be used to control stages or progression of the work" to emphasize that contractor's field-cured cylinders are to be used for this purpose

In Section M.03:

- Changed title of Section to allow use of hydraulic cement and put in specifications for it
- Replaced Department mix design "Approval" with "Producer mix self-qualification"
- Allowing use of recycled materials within mixes, including ground glass pozzolan
- Article M.03.02 title changed to emphasize cast-in-place concrete standard mixes
- Revisions to Table M.03.02-1 Standard Mix Designs outlining classes of concrete, 28 day strength requirements and 56 day resistivity requirements (if applicable)
- Addition of Class PCCXXX83 related to surface or structural repair concrete, with maximum resistivity requirement
- Removal of water/cement ratio requirements and minimum cement content requirements
- Revisions to Table M.03.02-1a Exposure Factor per Application to clarify use of Exposure Factors 1 "Moderate" and 2 "Severe," and added Exposure Factor 3 "Special" to be used only for structural repair concrete with sacrificial anodes
- Removal of M.03.07 Adhesive Anchoring Material (making it "vacant") related to incorporation of new Section 6.10 Drilling Holes and Bonding Anchors and Dowels which includes updated requirements for adhesive anchor material
- M.03.08 Joint Materials includes minor corrections including correcting reference to ASTM D8139

SECTION 6.10 - DRILLING HOLES AND BONDING ANCHORS AND DOWELS

Incorporated special provision, owned by Bryan Reed of Bridge Design, that has been successfully used on projects for over a year. There is a fillable form included with this Section for recording field testing of installed anchors and dowels.

SECTION 9.10 - METAL BEAM RAIL

Revised to refer to new Section 6.10, Drilling Holes and Bonding Anchors and Dowels, for when metal beam rail attachment is installed into existing concrete.

SECTION 9.21 - CONCRETE SIDEWALKS AND RAMPS

Added paragraph to Article 9.21.03 titled "Discontinuities" to address a maximum 1/2 inch height difference between sidewalk slabs, as requested by Snow Peng, ADA Coordinating Engineer.

SECTION M.06 - METALS

Revision to M.06.03 to prohibit the use of aerosol galvanizing products for field repairs and touch ups.