

Working Drawings for Municipally Managed Projects:

Supplemental design sheets or similar data which the Contractor is required to submit to the Resident Engineer (RE) to be reviewed for conformance by the Design Engineer.

Working drawings submitted to detail work that has not been designed in the Contract Plans shall be designed, detailed, and stamped by a professional engineer and submitted to the RE to be reviewed for conformance by the design engineer.

Categories of Working Drawings:

I. Fabrication Drawings

Fabrication drawings are required for work performed by or in conjunction with materials furnished by a fabricator or supplier. They shall consist of complete details developed from information in the Contract, and field measurements to define dimensions, sizes, procedures, and materials necessary to complete fabrication and installation or erection of the work specified.

II. Construction Drawings

For an item or element of work that permits the Contractor optional details, procedures, and materials, the Contractor shall prepare and submit to be reviewed for conformance detailed drawings and procedures of how the Contractor proposes to perform and control the work. Construction drawings and procedures shall be stamped and signed by a qualified licensed professional engineer registered in the State of Vermont. The professional engineer is responsible for the design, performance of the designed element, and preparation of the construction drawings and procedures.

III. Design Drawings

For an item or element of work to be permanently incorporated in the project which has not been designed and detailed in the Contract Plans, the Contractor shall prepare and submit to be reviewed for conformance detailed designs, procedures, and drawings for the item or element of work. Design drawings and procedures shall be stamped and signed by a licensed professional engineer registered in the State of Vermont.

Sections requiring **Fabrication Drawings:**

506 - Structural Steel *
508 - Shear Connectors
510 – Prestressed Concrete
516 – Expansion Devices
522 – Lumber and Timber
525 – Bridge Railings
531 – Bridge Bearing Devices
540 – Precast Concrete **
543 – Contractor-Fabricated Precast Concrete Structure
544 – Prefabricated Bridge Unit Superstructure
621 – Traffic Barriers
677 – Overhead Traffic Sign Supports
678 – Traffic Control Signals
679 – Street Lighting

Sections requiring **Construction Drawings:**

204 – Excavation for Structures
208 – Cofferdams
501 – Performance Based Structural Concrete
502 – Shoring Superstructures
506 – Structural Steel *
510 – Prestressed Concrete
522 – Lumber and Timber
540 – Precast Concrete **
543 – Contractor-Fabricated Precast Concrete Structure
544 – Prefabricated Bridge Unit Superstructure
641 – Traffic Control

* **506 - Structural Steel:** Prior to performing any work under this Section, the fabricator must have received approval for all Fabrication Drawings, welding procedures and any special Contract requirements and have notified the VTrans Structural Steel Fabrication Engineer at least 10 Working Days in advance of fabrication.

** **540 - Precast Concrete:** Structural design calculations and fabrication drawings for precast concrete shall be submitted as Construction Drawings to VTrans Concrete Materials Unit prior to performing work under this section.

Please reach out to the VTrans Project Manager with any questions concerning working drawings and associated processes.