

SECTION 200 -- CIVIL

A. GENERAL

1. This section outlines general requirements for civil designs to be performed for the Bureau. This standard is intended to establish a baseline of design. The designer shall apply the principles of this section in order to achieve a level of quality and consistency in the design and the construction of State facilities.
2. Every Specification Section is required to include in Part 2 (as the first item), "SUBSTITUTIONS: Materials shall be as specified..." (refer to "SECTION 100 -- GENERAL" for the entire statement).
3. Make sure all specification sections are coordinated with the Bureau's General Conditions, Document 000708.
4. Salvage of materials in general (excess loam, trees, wood chips, etc) shall be coordinated with the Using Agency. Identify materials to be salvaged by the Using Agency and/or by the Contractor for the Using Agency.

B. STANDARDS

1. NHDOT *Standard Specifications for Road and Bridge Construction* (SSRBC), latest edition.
 - a. All divisions of the SSRBC shall apply to the Bureau's projects and be referenced in the contract documents. SSRBC divisions apply to the Bureau's projects as indicated in the following:
 - 1) Division 100 -- General Provisions: Not applicable except where referenced in Divisions 200 through 700, to the extent that those provisions do not conflict with other express provisions of the contract specifications.
 - 2) Divisions 200 – 700: Applicable to the extent that those provisions do not conflict with other express provisions of the contract specifications.
 - 3) Any portion of the SSRBC relating to "Basis of Payment" and "Method of Measurement" is not applicable.
 - b. All applicable technical provisions of the SSRBC shall be considered effective for the exterior work unless some sections of the SSRBC are modified by individual specification sections. Any such modifications shall take precedence over the SSRBC provisions.
 - c. If there are any conflicts between references, the most stringent reference, as determined by the Contract Administrator, shall apply.
 - d. A quality of assurance program including frequency and method of testing shall be as defined by the Engineer of Record. At a minimum, the SSRBC "Frequency of Sampling and Testing" shall be incorporated as found in the following tables:
 - 1) "Frequency of Sampling & Testing – Soil Items Method Specifications."
 - 2) "Frequency of Sampling & Testing – Asphalt Items, Method Specification."
 - 3) Refer to:
<http://www.nh.gov/dot/org/projectdevelopment/planning/documents/QA-QCMaterialStandards-2010.pdf>

C. EARTHWORK -- Reserved for future use.

D. EXTERIOR IMPROVEMENTS

1. Granite curbing is preferred in lieu of precast concrete. Vertical granite curb is preferred in lieu of sloped granite edging. Asphalt berm or edging is allowed only by written permission of the Contract Administrator. Refer to *Standard Specifications for Road and Bridge Construction, State of New Hampshire, Department of Transportation (SSRBC)*, latest edition, Section 609.
2. Sidewalk accessibility: Include design and details for sidewalk accessibility requirements for detectable warnings, curb ramps, etc. Refer to *Design Guidelines*, "Section 100 – General," article "STATE CODES, REGULATIONS, PERMITS," subparagraph, "NH Governor's Commission on Disability, Architectural Barrier Free-Design Committee."
3. Concrete sidewalks: 4,000 psi compressive strength.
 - a. Minimum width: 5'-0".
 - b. Control joints: 5'-0" on center, maximum spacing.
 - c. Expansion joints: 30'-0" on center, maximum spacing. Asphalt-saturated cellulosic fiber is permitted, terminated not less than ½ inch or more than 1 inch below finished surface. During concrete placement, protect to edge of joint filler with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.
4. Asphalt sidewalks: Allowed only by written permission of Contract Administrator.
 - a. Provide minimum 3" depth in two courses.
 - b. Refer to SSRBC, latest edition, Section 608.

E. UTILITIES

1. Catch basin frames:
 - a. Set in concrete.
 - b. Provide detail drawings.
 - c. Refer to SSRBC, latest edition, Section 604.3.4.
2. Manholes:
 - a. Provide detail drawings.
 - b. Refer to SSRBC, latest edition, Section 604.