



PLAN  
Scale: 1" = 30'

GENERAL NOTES

**SPECIFICATIONS:**  
 All materials and construction shall conform to the State of Vermont, Department of Highways, Standard Specifications for Highway and Bridge Construction, dated April, 1964, and the AASHTO Standard Specifications dated 1965 as modified by current interim specifications.

**LIVE LOAD:**  
 Structure designed for HS 20-44 loading modified for National System of Interstate Highways applied in accordance with the provisions of the AASHTO Standard Specifications Article 12.B.

**CONCRETE:**  
 All exposed edges of concrete shall be chamfered 1"x1" unless otherwise noted. All construction joints to be made as shown on SCB-D6-G7, Details B and C unless otherwise noted.

**REINFORCEMENT:**  
 All reinforcement to have a clear cover of 2" unless otherwise noted.

**DIMENSIONS:**  
 All dimensions given are measured horizontally or vertically unless otherwise noted. Dimensions given are for 65°F unless otherwise noted. Elevation datum Sea level based on nearest U.S. Government vertical control.

**STRUCTURAL STEEL:**  
 Item 404 shall include all structural steel, copper, wrought iron, and any other materials indicated or required in the completed structure which are not otherwise classified. All structural steel shall be structural carbon steel conforming to the requirements of the specifications for steel bridges and buildings A.S.T.M. designation A-36-62, except as otherwise noted. The contractor shall submit complete details of the structural steel to the State of Vermont, Department of Highways, and receive their written approval prior to the start of fabrication. The steel details shall include provisions for cambering of beams for dead load deflection as well as erection diagrams and falsework details. The final color of field paint shall be green.

**WATER REPELLENT:**  
 The top surface of safety walks, fascia and back to the fascia beam under the slab, exposed areas of abutments not otherwise treated shall be covered with Water Repellent (Item 404).

**FIELD BOLTING:**  
 Field bolted connections shall be made with 7/8" φ A325 High Strength Bolts. A490 bolts are not allowed.

**ABUTMENTS:**  
 The top surfaces of all abutments (1234) shall be sloped 1/4" per foot from the back edge of the abutment to the front edge of the abutment except for bearing pads which shall be level. Elevation of bridge seats given are for centerline of bearings. The entire exposed top surface of abutments (1234) shall be coated with asphaltic mastic coating 1/2" thick as per item 404 of the specifications. The application of this item shall be after all painting and incidental items are completed.

**GENERAL:**  
 All expansion material shall be premixed cork containing no bitumen or asphalt. Payment for waterstop sealing strips and all labor necessary to install same, shall be included in the unit price bid for concrete class B, item 401.B.

**BITUMINOUS CONCRETE PAVEMENT:**  
 Bituminous Concrete Pavement item 361 Modified Type II shall be applied in two courses.

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FAIRHAVEN-RUTLAND  
 SHF BPN1 (10)  
 PROJECT BRIDGE #9E & 9W  
 SHEET 21 OF 28  
 FOR INFORMATION ONLY

VERMONT  
 STATE HIGHWAY DEPARTMENT  
 TOWN OF CASTLETON  
 U.S. ROUTE 4  
 TH-24 OVER U.S. RTE. 4  
 RELOCATION  
 PLAN AND ELEVATION

McFARLAND-JOHNSON  
 CONSULTING ENGINEERS  
 BINGHAMTON, NEW YORK  
 DESIGNED WDS CHECKED JEL DATE 3-16-68  
 DRAWN LRS IN CHARGE HGC SCALE AS NOTED  
 PROJECT NO. APO20450 SH 21 OF 28

STANDARD DRAWINGS

- SCB-D6-67 CURB DETAILS & CONSTRUCTION JOINT DETAILS-DET. A,B & D, MAY 23-69 R
- SCB-D4-67 CORK REINFORCING LAYOUT AT ABUTMENT- DEC. 17-68
- SCB-D2-67 BEAM HAUNCH - DET. C, JAN. 24-68
- SCB-D1-67 BENCH MARK & BRIDGE MARKER DETAILS & GENERAL NOTES - JAN. 24-68
- SB-EE-65 STEEL RAILING DETAILS - NOV. 8-66
- SB-EI-64 (SHEETS 1 & 2) ALUMINUM RAILING DETAILS - SH. 1 DEC. 16-68 SH. 2 NOV. 8-66
- SCB-D3-67 PLASTIC TUBES AT EXPANSION PLATE - DET. A, JAN. 24-68

DESIGN STRESSES

Concrete: f<sub>c</sub> = 3,000 p.s.i., f<sub>t</sub> = 1,000 p.s.i.  
 Structural Steel: f<sub>s</sub> = 20,000 p.s.i.  
 (A 36 - other steels as per AASHTO Specifications)  
 Reinforcing Steel (Intermediate Grade): f<sub>s</sub> = 20,000 p.s.i. (Tension)  
 f<sub>s</sub> = 16,000 p.s.i. (Compression)