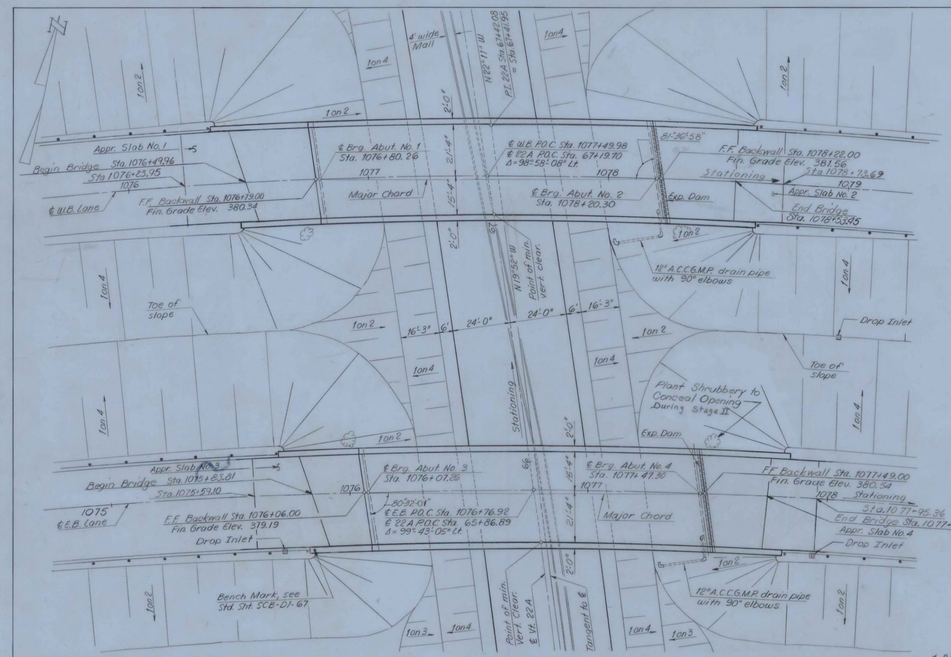
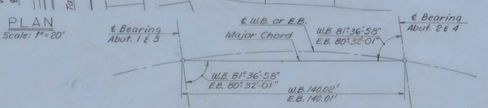


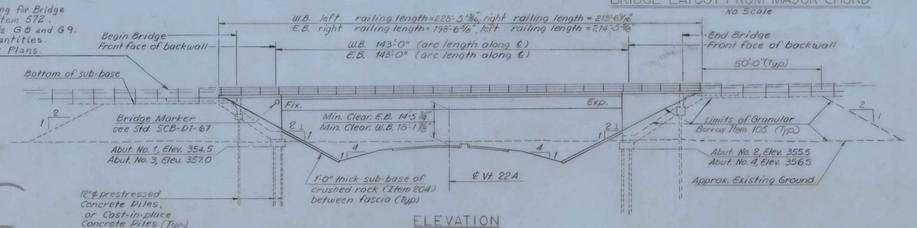
PLAN
Scale: 1"=20'

Curve Data ℄ E.B. U.S. Rte. 4	Curve Data ℄ W.B. U.S. Rte. 4	Curve Data Vt. 22A
Δ= 125°44'00" Rt.	Δ= 103°37'00" Rt.	Δ= 23°19'00" Lt.
D= 3°00'	D= 3°00'	D= 0°15'
R= 1909.86'	R= 1909.86'	R= 22,918.32'
T= 1346.01'	T= 1945.40'	T= 463.40'
L= 2451.11'	L= 2345.00'	L= 976.67'
E= 493.18'	E= 486.66'	E= 4.68'
Bank 15/16" per Ft.	Bank 15/16" per Ft.	No Bank



BRIDGE LAYOUT FROM MAJOR CHORD
No Scale

Bridge Railing for Bridge Approaches, Item 572. See Standards G8 and G9. Stage II Quantities. See Roadway Plans.



ELEVATION
Scale: 1"=20'

Addition: Bridge Railing for Bridge Approaches 3-25-69 R.P.G.

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 A.A.S.H.O. 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 A.A.S.H.O. Standard Specifications, Article 1.2.8.

CONCRETE:
All exposed edges of concrete shall be chamfered 1"x 1" unless otherwise noted. All construction joints to be made as shown on SCB-D6-67, 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 68° F., unless otherwise noted. Elevation datum, sea level, based on nearest U.S. Government Vertical control.

STRUCTUREAL STEEL:
Item 404-A 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 ASTM Designation A-36-63T, 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 fieldwork details.
The final coat of field paint shall be green.

WATER REPELLENT:
The top surfaces of safety walks, fascia and back to the fascia beam under the slab, and on exposed areas of abutments not otherwise treated shall be covered with water repellent, (Item 440).

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 shall be sloped 1/4" per foot from the front edge of abutment curtain-walls, except for bearing pads projecting 1" or more above the general area, which surfaces shall be level. Elevation of bridge seats given are for centerline of bearings. The entire exposed top surface of abutments shall be coated with Asphaltic-Asbestos Coating, 1/8" thick, as per Item 407 of the specifications. The application of this item shall be after all painting and incidental items are completed.
Fill inside the abutments shall be graded to 3" above the bottom of the exterior concrete girders of the abutment section and shall meet the requirements of Item 105

PILES:
Cast-in-Place Piling or Prestressed Concrete Piling Type will be chosen by alternate bids. Vertical Design Load = 40 tons/pile; Horizontal Design Load = 1 ton / pile. All piling shall be driven to the lengths indicated on the plans unless otherwise directed in writing by the Engineer.

GENERAL:
Cross slopes of the approach slabs to conform to the cross slope of the bridge. All expansion material shall be premolded cork containing no bitumen or asphalt.

BITUMINOUS CONCRETE PAVEMENT:
Bituminous concrete pavement, Item 361 Modified, Type II, shall be applied in two courses.

FAIRHAVEN-RUTLAND
BHF BPNT (10)
PROJECT BRIDGE #5E & 5W
SHEET 17 OF 28
FOR INFORMATION ONLY

INDEX OF DRAWINGS

STANDARD DRAWINGS

SCB-D6-67 PILE SPLICE DETAILS CONSTRUCTION JOINT DETAILS
SCB-D4-67 DECK REINFORCING LAYOUT AT ABUTMENT
SCB-D2-67 BEAM HAUNCH
SCB-D1-67 BENCH MARK & BRIDGE MARKER DETAILS AND GENERAL NOTES
SB-R2-65 STEEL RAILING DETAILS
SB-E1-64 (SHEETS 1 AND 3) ALUMINUM RAILING DETAILS
PRESTRESSED CONCRETE PILES - JOINT COMMITTEE, AASHO COMMITTEE ON BRIDGES & STRUCTURES AND PRESTRESSED CONCRETE INSTITUTE
SB-PT-66 CAST-IN-PLACE CONCRETE PILING.

DESIGN STRESSES

Concrete	f'c = 3,000 p.s.i.
	fc = 1,200 p.s.i.
Structural Steel	Fs = 20,000 p.s.i. (A-36, other steels as per AASHO specs.)
Reinforcing Steel (Intermediate)	Fs = 20,000 p.s.i. (tension)
	fs = 16,000 p.s.i. (compression)

VERMONT
STATE HIGHWAY DEPARTMENT
TOWN OF FAIR HAVEN
U.S. ROUTE 4

US. RTE. 4 RELOCATION
OVER VT. 22A RELOC.

PLAN AND ELEVATION

McFARLAND-JOHNSON
CONSULTING ENGINEERS
BINGHAMTON, NEW YORK

DESIGNED BEK CHECKED REC DATE 5-23-68
DRAWN EMG IN CHARGE HGC SCALE As shown

PROJECT NO. F020-1(4)8 SH 180 OF 532
CONTRACT NO. BR 501 180 255