

BRIDGE 24 ON T.H. NO.3
 (DSR ITEM NO. 28-1A SEPTEMBER 15, 1976)

TOWN OF WINDHAM
WINDHAM, VERMONT
OCTOBER 1976

GENERAL NOTES

All material and construction shall conform to Vermont Standard Specification for Highway and Bridge Construction, March 1976 and AASHTO Standard Specifications for Highway Bridges, 1973 Design live load is H20-44 with impact.

FOUNDATIONS

- F1 No concrete shall be placed on frozen ground, or in water unless approved by the Engineer.
- F2 Footings shall bear on undisturbed soil having a minimum bearing capacity of 2 tons per square foot.

CONCRETE

- C1 Concrete shall attain the following minimum compressive strengths at 28 days:
 Bridge Deck 3,500 psi Class B
 Abutments and Wingwalls 3,500 psi Class B
- C2 All exposed edges of concrete shall have 1" x 1" chamfers, except as shown otherwise.
- C3 Concrete surfaces shall have the following finishes:
 Bridge Deck Broaded Finish Vt. Spec. 501.14(b)
 Abutment face Dressed Finish Vt. Spec. 501.14(a)
- C4 Slab shall be within a range of 2 to 3 inches.
- C5 The Contractor will notify the Engineer 24 hours in advance of any concrete placement.
- C6 A minimum of three cylinders will be taken for each placement.
- C7 An air content test will be performed when placing the deck slab.

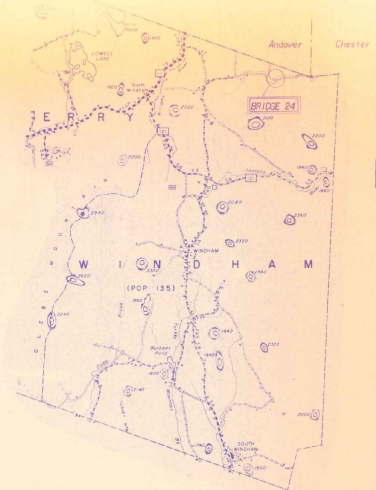
REINFORCING

- R1 All steel reinforcement shall conform to ASTM A615 Grade 40 (FY=40000psi) Vt. Spec. 713.01
- R2 Provide all necessary accessories to hold reinforcement securely in position.
- R3 Provide 2" concrete protective covering for all main reinforcement except 3" in footing bottom and 1-1/2" in bottom of slab.
- R4 Unless shown otherwise, all bars shall be continuous and shall run continuously around corners and lapped 30 bar diameters min. or necessary splices or hooked at discontinuous ends.
- R5 Bar reinforcement shall be fabricated within the tolerance and shipped in standard bundles tagged and marked in accordance with the Manual of Standard Practice for Reinforced Concrete Construction as published by the Concrete Reinforcing Steel Institute.
- R6 Submit to the Engineer for approval Shop drawings for all reinforcement (6 prints ea.).

MISCELLANEOUS

- M1 Prefabricated joint filler cork shall conform to AASHTO M153 Type II (Vt. Spec. 707.21)
- M2 Stone fill shall conform to Vt. Spec. 706.05 Type II.
- M3 Granular backfill for structures shall conform to Vt. Spec. 704.11.
- M4 New guard rails and posts shall be galvanized according to AASHTO M11.
- M5 Standard steel beam guard rail shall conform to AASHTO M180, Class B, Vt. Spec. 728.03(a).

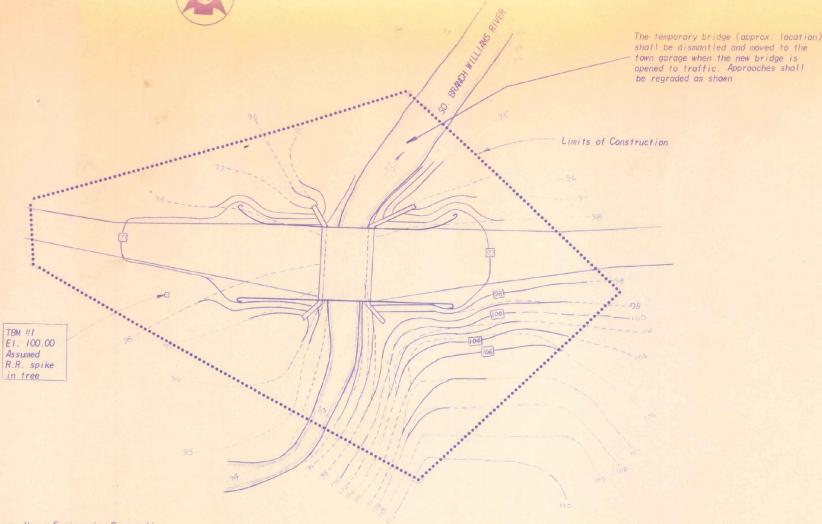
NOTE: The above notes are a brief summary of the requirements for this project. For detailed requirements, refer to the Contract Specifications.



PROJECT LOCATION PLAN
 SCALE 1"=2000' APPROX.

HYDRAULIC DESIGN DATA

Q10 = 410 cfs
 Q25 = 610 cfs
 Q50 = 600 cfs
 Water Elev. @ Q10 = 95.0
 Water Elev. @ Q25 = 95.5
 Water Elev. @ Q50 = 95.8
 Backwater Elev. @ Q25 = 97.3
 Backwater Elev. @ Q50 = 97.9
 Drainage Area = 1.75 sq. mi.
 Velocity = Q25 = 10.1 ft./sec.

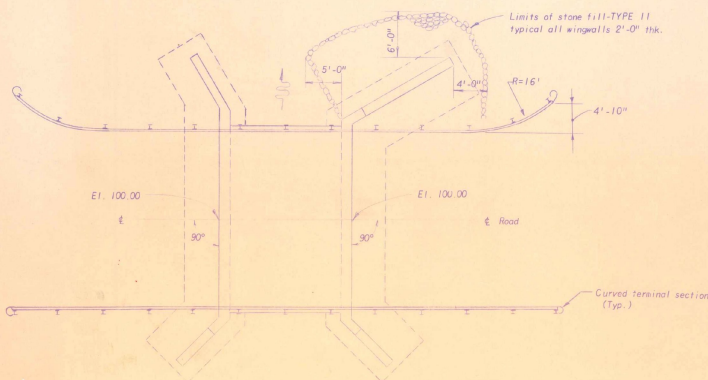


SITE PLAN
 SCALE 1"=20'

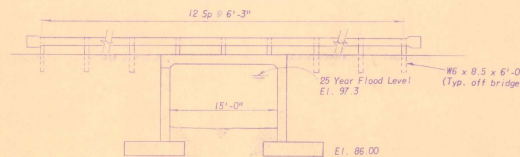
LEGEND

- Existing Contours
- New Contours
- Limits of Construction

Survey by Dufresne-Henry Engineering Corporation



BRIDGE PLAN
 SCALE 1/8"=1'-0"



BRIDGE ELEVATION
 SCALE 1/8"=1'-0"

NOV 12 1976

RECEIVED
 CR'D BY _____
 RESUBMIT APPROVED _____
 BY DATE 11/13/76



Francis J. Francis
 11/2/76

WINDHAM
 Class 3, TH 3, B24 over So. Branch

BRIDGE 29 ON T.H. NO. 10

(DSR ITEM NO. 28-2 SEPTEMBER 15, 1976)

TOWN OF WINDHAM
WINDHAM, VERMONT
OCTOBER 1976

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- C6 A minimum of three cylinders will be taken for each placement.
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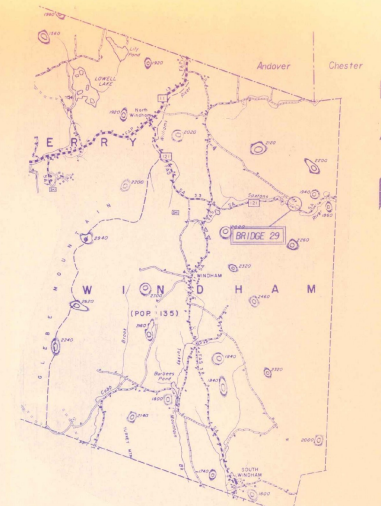
REINFORCING

- R1 All steel reinforcement shall conform to ASTM A615 Grade 40 (FY=60000psi) Vt. Spec. 713.01.
- R2 Provide all necessary accessories to hold reinforcement securely in position.
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- M5 Standard steel beam guard rail shall conform to AASHTO M180, Class B, Vt. Spec. 728.03(d).

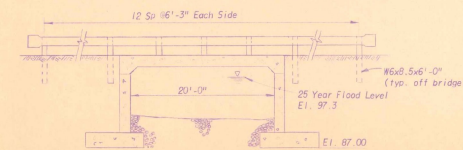
NOTE: The above notes are a brief summary of the requirements for this project. For detailed requirements, refer to the Contract Specifications.



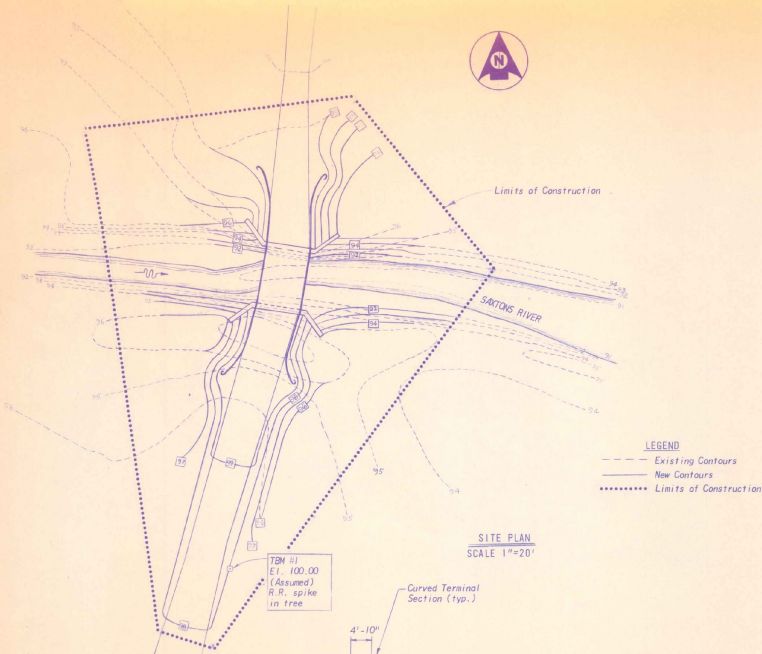
PROJECT LOCATION MAP
SCALE 1"=2000' APPROX.

HYDRAULIC DESIGN DATA

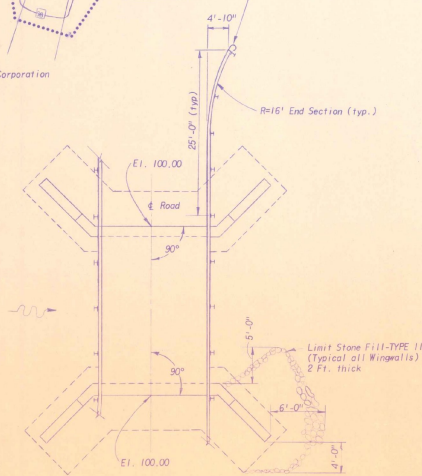
Q10 = 675 cfs
Q25 = 850 cfs
Q50 = 1000 cfs
Water Elev. @Q10 = 94.6
Water Elev. @Q25 = 95.1
Water Elev. @Q50 = 95.6
Backwater Elev. @Q25 = 97.3
Backwater Elev. @Q50 = 97.8
Drainage Area = 2.35 sq. mi.
Velocity @Q25 = 11.1 ft./sec.



BRIDGE ELEVATION
SCALE 1/8"=1'-0"



SITE PLAN
SCALE 1"=20'



BRIDGE PLAN
SCALE 1/8"=1'-0"

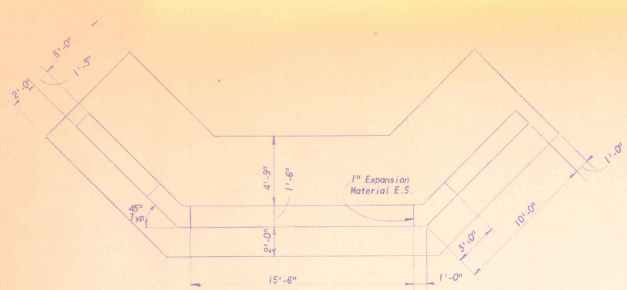
Survey by
Dufresne-Henry Engineering Corporation

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RESUBMIT _____
BY _____ DATE _____

NOV 12 1976

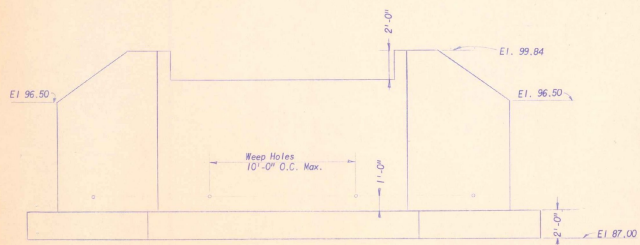


Francis J. Foster
11/8/76



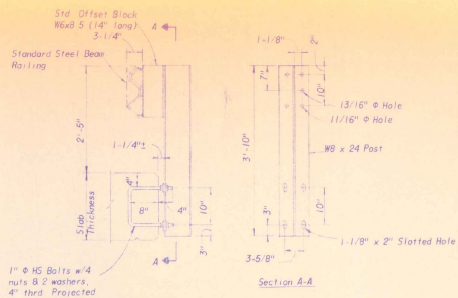
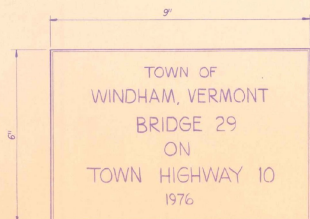
ABUTMENT-WINGWALL PLAN

SCALE 1/4"=1'-0"



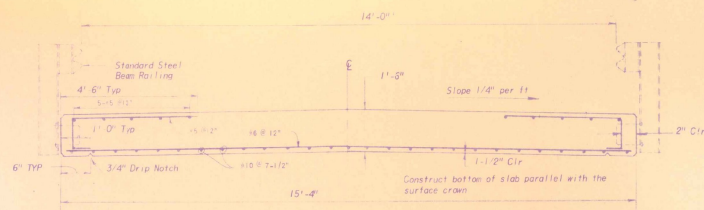
ABUTMENT-WINGWALL ELEVATION

SCALE 1/4"=1'-0"



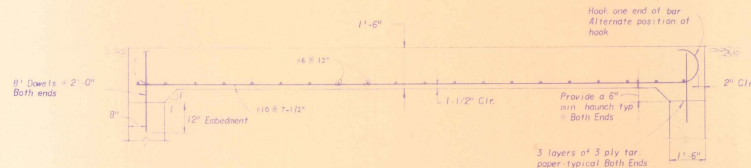
BRIDGE RAILING DETAIL

N.T.S.



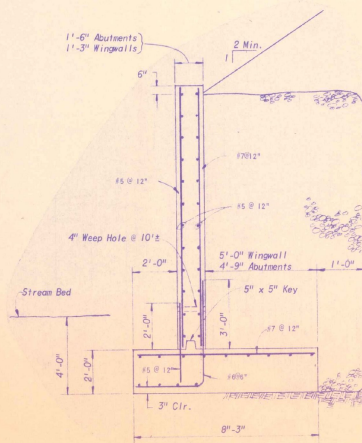
TYPICAL ROADWAY SECTION

N.T.S.



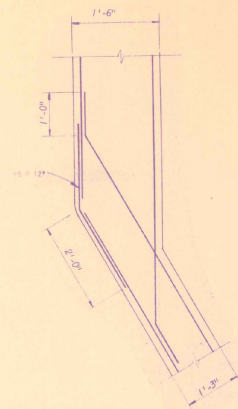
TYPICAL LONGITUDINAL SECTION

N.T.S.



TYPICAL ABUTMENT OR WINGWALL SECTION

N.T.S.



ABUTMENT-WINGWALL REBAR DETAIL

N.T.S.

NOV 12 1976

RECEIVED
CK'D BY
RESUBMIT
BY
DATE

BRIDGE NO. 29
ON
T.H. NO. 10

CLIENT NO.	05-0084	DESIGN UNDER	P. S. INDOCTEE
DRAWN BY	SRB	SCALE	AS SHOWN
DESIGN BY	SRB	DATE	OCTOBER 15, 1976
CHECKED BY	PLB	APPROVED	[Signature]
		SHEET 2 OF 2	
		D 1272	

Vermont Agency of
Transportation
Phase III- Interstate
#090303-01



INITIALS

Hanger 4753^{DONE}

1976 FLOOD PROJECT

1976 WINDHAM

DSR 28-1A

1976

1976