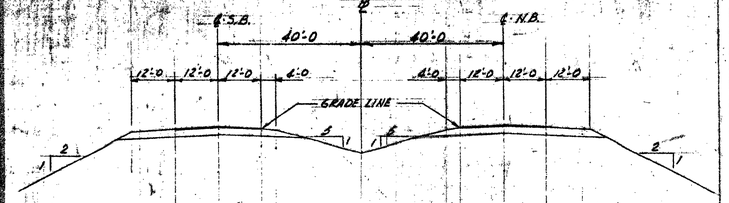
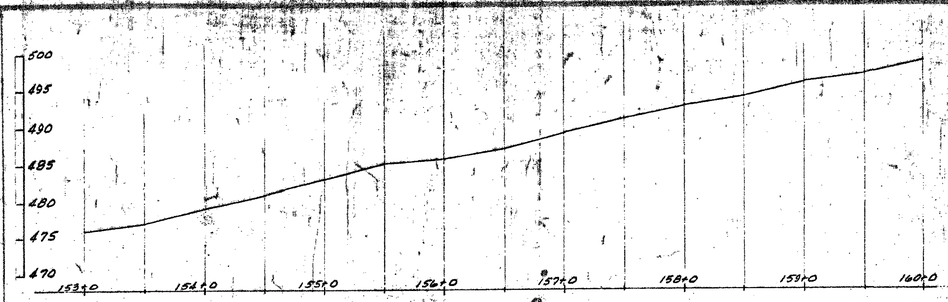


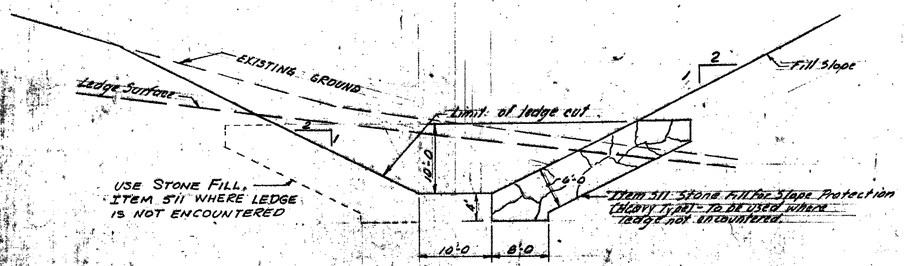
NEW HIGHWAY SECT. STA. 740+0 TO STA. 749+0

SCALE 1 IN. = 20 FT.



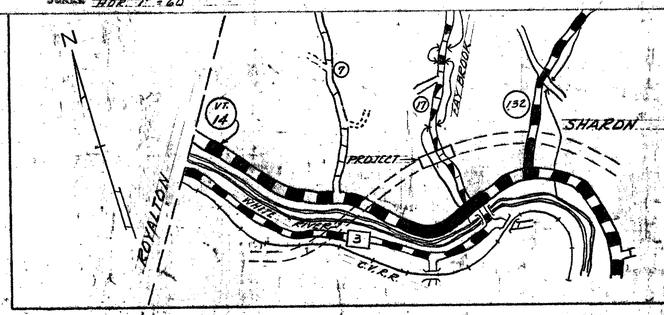
EXISTING ═══ HIGHWAY PROFILE ALONG ℄ TOWN HIGHWAY NO. 17

SCALE VERT. 1" = 10'
HOR. 1" = 60'



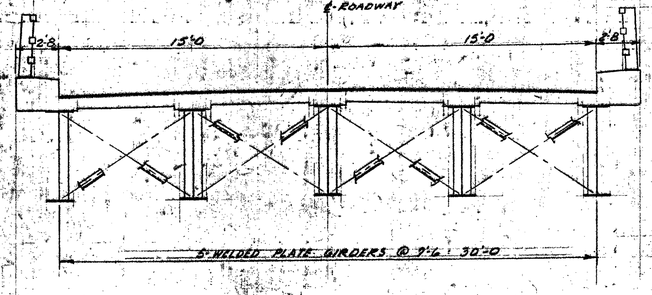
TYPICAL CHANNEL SECTION 2+50 TO 5+50

SCALE 1 IN. = 10 FT.



PROJECT LOCATION

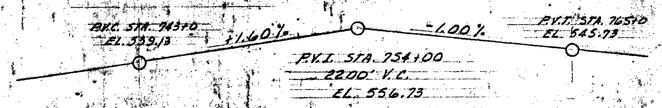
SCALE 1 IN. = 0.5 MILE



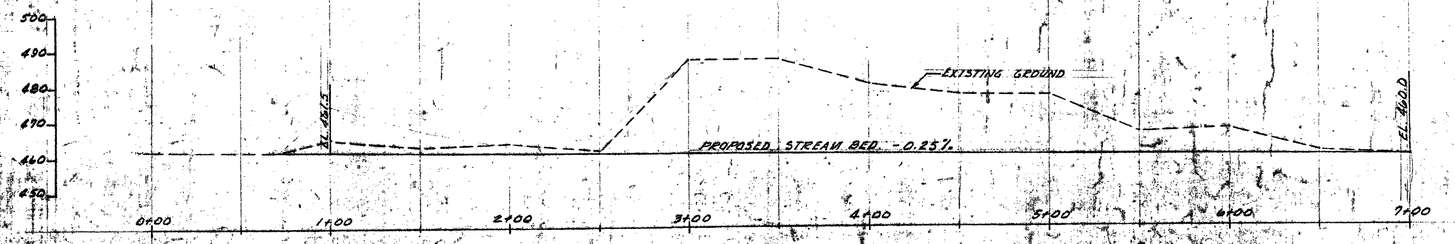
TYPICAL BRIDGE SECTION - N.B. & S.B.

SCALE 1 IN. = 4 FT.

For details of deck see SCB-30-65, Modified by using 5 welded 72" girders



I-89 GRADES - N.B. & S.B.



PROFILE OF PROPOSED STREAM CHANNEL

SCALE VERT. 1" = 20'
HOR. 1" = 40'

HIGHWAY NO. I-89 NAME OF HIGHWAY INTERSTATE

STRUCTURE NO. COUNTY WINDSOR TOWN SHARON

PROJECT NO I-89-1(30)C/1 LOCATION SHARON

EXISTING STRUCTURE

1 RATED LOADING OF EXISTING STRUCTURE
2 TYPE OF EXISTING STRUCTURE
3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE
4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE COST OF REMOVAL
5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE
6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT
7 ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE WATERWAY TO ORDINARY H.W.
8 EXTREME HIGH WATER AT EXISTING STRUCTURE
9 SPAN OF EXISTING BRIDGE UPSTREAM WATERWAY TO EXTREME H.W.
SPAN OF EXISTING BRIDGE DOWNSTREAM WATERWAY TO EXTREME H.W.
10 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS
11 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE
12 IF NOT, IN WHAT ELEVATION IS RELIEF AFFORDED
13 ADDITIONAL WATERWAY AREA PROVIDED

NEW STRUCTURE

1 RECOMMENDED TYPE OF STRUCTURE FOUR SPAN CONTINUOUS WELDED PLATE GIRDER (SCB-30-62 Mod.)
2 RECOMMENDED CLEAR SPAN OR SPANS N.B. - 75'-100'-100'-75' S.B. 90'-110'-110'-90'
MEASURED PARALLEL TO ℄ NEW HIGHWAY N.B. = 350', S.B. = 400'
MEASURED AT RIGHT ANGLES TO ℄ STREAM N.B. 313', S.B. 365'
3 ARE THERE OBJECTIONS TO A PIER IN THE STREAM, ANSWER YES OR NO NO
4 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE 464.0
5 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE 479.0 SOURCE OF INFORMATION 30 yr. Storm DPE Chart
6 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE? Yes
7 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? NO IS ORDINARY HIGH WATER No
8 LOW WATER ELEVATION AT NEW STRUCTURE 461.0
9 DRAINAGE AREA IN ACRES ABOVE STRUCTURE 5,470 CHARACTER OF TERRAIN Mountainous
10 IS STREAM - EVER DRY? No
11 VELOCITY OF STREAM AT HIGH WATER STAGE 6.5 Ft/sec. ESTIMATED DISCHARGE 1100 C.F.S.
12 AREA FULL OPENING AREA BELOW ORDINARY H.W.
13 CHARACTER OF SCOUR Slight DRIFT Slight Slight
14 ESTIMATED DRAINAGE AREA; ABOVE NATURAL OR ARTIFICIAL STORAGE
15 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION 60 Ft ±
16 ARE SIDEWALKS REQUIRED, IF SO, ON WHAT SIDE No
17 RECOMMENDED TYPE OF PAVEMENT REINFORCED CONCRETE (9") CONTINUOUS SLIDEABLE (4")
18 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. ONE OR TWO WAYS PROBABLE COST
19 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE
20 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES
21 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 5 Tons/Ft² SHOULD PILES BE USED? Yes
45 Tons/Pile

FOUNDATION INFORMATION

OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN. BOULDERS MAY BE ENCOUNTERED AT ANY PIER OR ABUTMENT LOCATION.

TABLE OF ESTIMATED PILE LENGTHS

LOCATION	LENGTH
Abut No. 1	25 Ft.
Abut. No. 2	30 Ft.
Abut. No. 3	105 Ft.
Abut. No. 4	95 Ft.
Pier No. 3	40 Ft.
Pier No. 6	35 Ft.

THIS SHEET IS FOR INFORMATION PURPOSES ONLY
HARTFORD-SHARON-ROYALTON IM IR 089-1(68)

BR #16NB & 16SB

BR-104

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE IN THE TOWN OF SHARON
ROUTE NO. I-89 LOG STA
OVER I.H. 17 AND FAY BROOK
PRELIMINARY INFORMATION

Recommended for Approval	E. H. Dickinson, Const. Engineer	12/2/65 Date
Recommended for Approval	Lund Bjorn, Bridge Engineer	12/2/65 Date
Recommended for Approval	R. H. Gould, Asst. Chief Engineer	12/2/65 Date
Approved by	A. D. Bishop, Chief Engineer	

SCHOENFELD ASSOCIATES, INC.
210 SOUTH STREET
BOSTON, 11, MASS.

Bridge Sheet No. BR 151 Sheet 108 of 260

E-4047