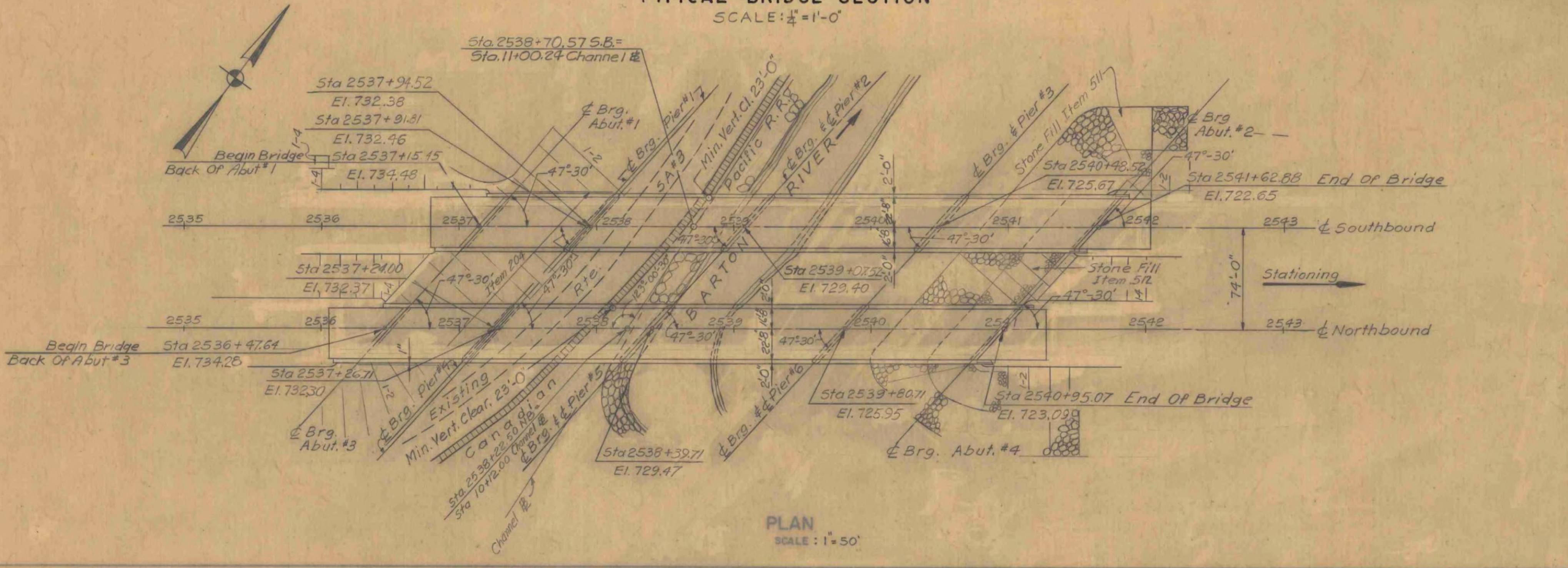
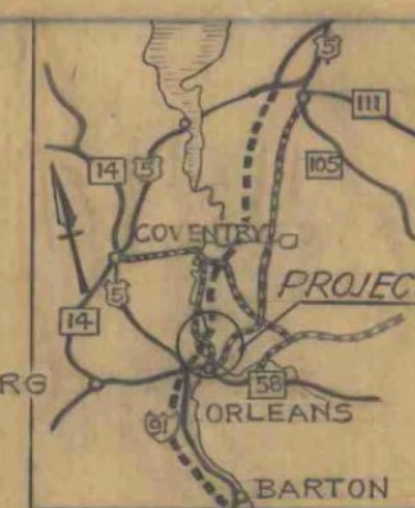
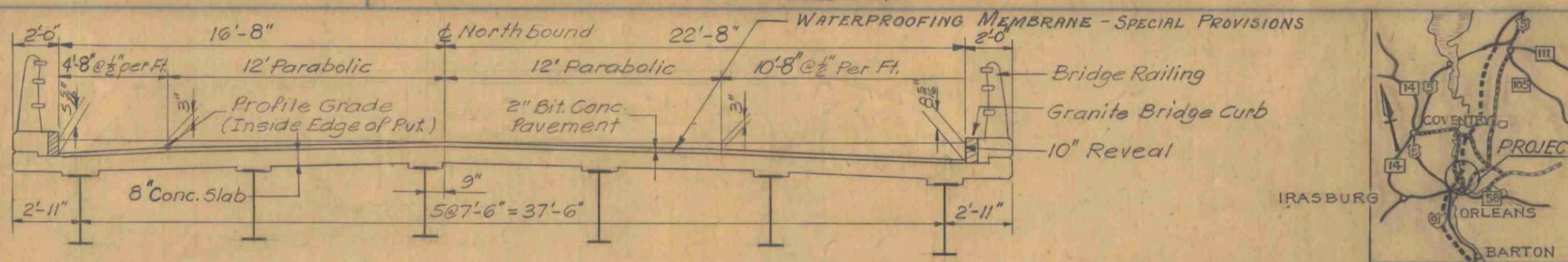


HIGHWAY NO. **I-91** NAME OF HIGHWAY **INTERSTATE**
 STRUCTURE NO. COUNTY **ORLEANS** TOWN **IRASBURG**
 PROJECT NO. **I-91-3(8)** LOCATION **I91 over BARTON RIVER, C.P.R.R and Irasburg SA #3**

EXISTING STRUCTURE	
1 RATED LOADINGS OF EXISTING STRUCTURE	N.A.
2 TYPE OF EXISTING STRUCTURE	N.A.
3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE	N.A.
4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE?	N.A. COST OF REMOVAL N.A.
5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE?	N.A.
6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT?	N.A.
7 ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE	N.A. WATERWAY TO ORDINARY H.W. N.A.
8 EXTREME HIGH WATER AT EXISTING STRUCTURE	N.A.
9 SPAN OF EXISTING BRIDGE UPSTREAM	N.A. WATERWAY TO EXTREME H.W. N.A.
10 SPAN OF EXISTING BRIDGE DOWNSTREAM	N.A. WATERWAY TO EXTREME H.W. 2 Structures Total 1000 SF.
11 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS	N.A.
12 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE?	N.A.
13 IF NOT AT WHAT ELEVATION IS RELIEF APPROVED?	N.A.
14 ADDITIONAL WATERWAY AREA PROVIDED	N.A.

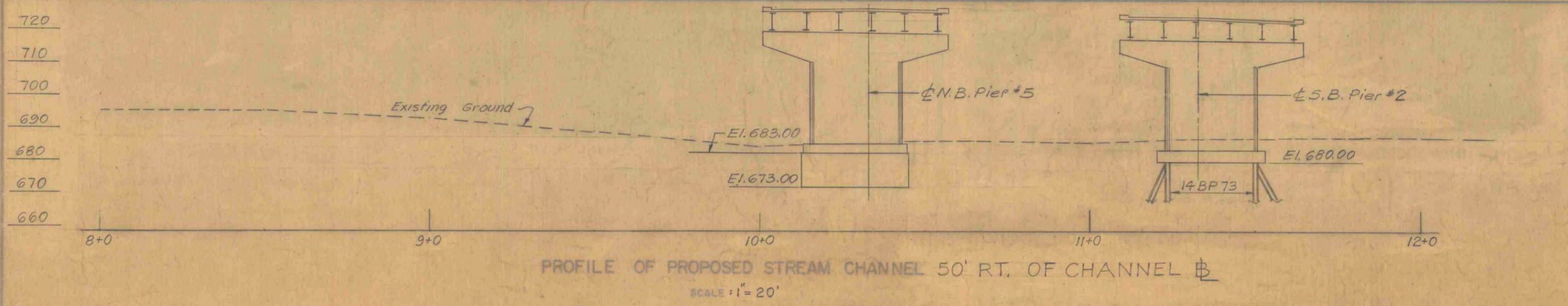
NEW STRUCTURE	
1 RECOMMENDED TYPE OF STRUCTURE	ONE SIMPLE SPAN (COMP) & 3 SPAN WELDED & GIRDER (CONTINUOUS-COMP)
2 RECOMMENDED CLEAR SPAN OR SPANS	75.0-113.0-141.0-113.0
3 MEASURED PARALLEL TO NEW HIGHWAY	75.0-113.0-141.0-113
4 MEASURED AT RIGHT ANGLES TO STREAM	55.0-84.0-104.0-84.0
5 ARE THERE OBJECTIONS TO A PIER IN THE STREAM? ANSWER YES OR NO	No
6 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE	697.0
7 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE	692.5 SOURCE OF INFORMATION COMPUTED
8 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE?	Yes
9 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? No IS ORDINARY RISE RAPID? No	
10 LOW WATER ELEVATION AT NEW STRUCTURE	690.0
11 DRAINAGE AREA IN ACRES ABOVE STRUCTURE	93.3/2 CHARACTER OF TERRAIN ROLLING
12 IS STREAM EVER DRY	No
13 VELOCITY OF STREAM AT HIGH WATER STAGE	6.9± F.P.S. ESTIMATED DISCHARGE 7000 C.F.S.
14 AREA FULL OPENING	1280 S.F. AREA BELOW ORDINARY H.W. 1000 S.F.
15 CHARACTER OF SCOUR	NONE DRIFT NONE ICE MEDIUM
16 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE	135.8 SQ. MI.
17 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION	18 FT.
18 ARE SIDEWALKS REQUIRED? IF SO ON WHAT SIDE?	No BOTH SIDES
19 RECOMMENDED TYPE OF PAVEMENT	2 BITUMINOUS CONCRETE, 8" CONCRETE
20 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. N.A. ONE OR TWO WAYS PROBABLE COST	
21 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE	\$1000.
22 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES?	No
23 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS	* SHOULD PILES BE USED? * EST. LBTH. *

Note: For Details of Deck Construction see BR 109
 For Railing Details see SB-R1-64 and SB-R2-65
 For Curb Details see SCB-D6-67



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.	
Pier No. 4 & 5	5 Tons / S.F.
Abutment No. 2	12 BP 53 110' Long
Abutment No. 3	12 BP 53 20' Long
Abutment No. 4	12 BP 53 100' Long
Pier No. 1	14 BP 73 20' Long
Pier No. 2	14 BP 73 30' Long
Pier No. 3	14 BP 73 55' Long
Pier No. 6	14 BP 73 45' Long
80 Tons / Pile Max.	

Design Stresses:
 Concrete $f_c = 3000$ p.s.i. $f_t = 1200$ p.s.i.
 Structural Steel $f_s = 20,000$ p.s.i. (A-36) others per AASHTO Specs
 Reinforcing Steel $f_s = 20,000$ p.s.i. Tension
 $f_s = 16,000$ p.s.i. Compression
 Welding per A.W.S. Specs.
Design Loading: HS 20-44



LYNDON-IRASBURG
 IM MEMB(29)
 SHEET 50 OF 55
 BRIDGE NO. 1075
 FOR REFERENCE ONLY

Stage 2 Construction	
Br. 103 OF 129	
STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
I-91	BR 107
PROJECT	BARTON - DERBY
ROUTE NO I-91	STA 2539
I91 OVER BARTON RIVER, C.P.R.R & IRASBURG SA #3	
PRELIMINARY INFORMATION SHEET	
SURVEYED BY: AKN. CHECKED BY: AGC. SCALE AS SHOWN	
DRAWN BY: AKN. IN CHARGE: CWT. DATE: 12/5/69	
PROJECT: EMP 91-3(20) SHEET 118 OF 175	

RECOMMENDED FOR APPROVAL	<i>20 Lombard</i>	9-15-69
	CONSTRUCTION ENGINEER	DATE
RECOMMENDED FOR APPROVAL	<i>Shutjow</i>	9-15-69
	BRIDGE ENGINEER	DATE
RECOMMENDED FOR APPROVAL	<i>E. H. Stebbins</i>	9-15-69
	ASST. CHIEF ENGINEER	DATE
APPROVED BY:	<i>R. H. Conrad</i>	9/15/69
	CHIEF ENGINEER	DATE

Changed Roadway width from 38'-0" to 39'-4"
 Changed Curb width from 2'-8" to 2'-0"
 R. Testa 4/22/69