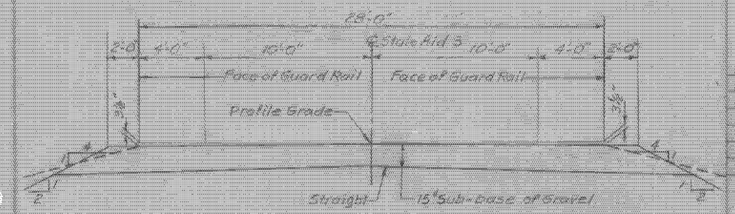
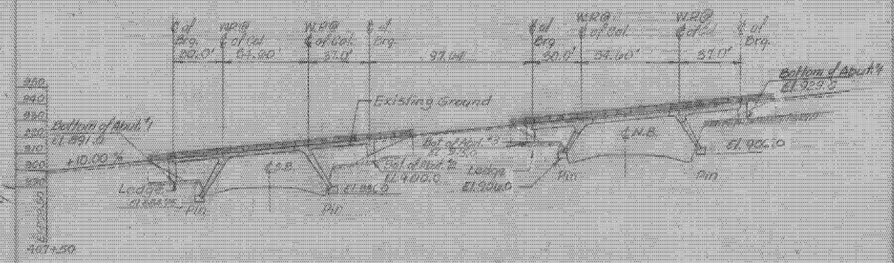


NEW HIGHWAY SECT STA 406+00 TO STA 412+50

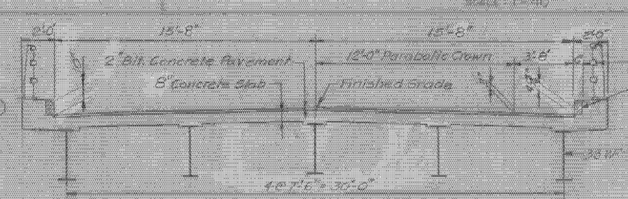
SCALE ¼" = 1'-0"



NEW HIGHWAY PROFILE ALONG ℄ STATE AID 3

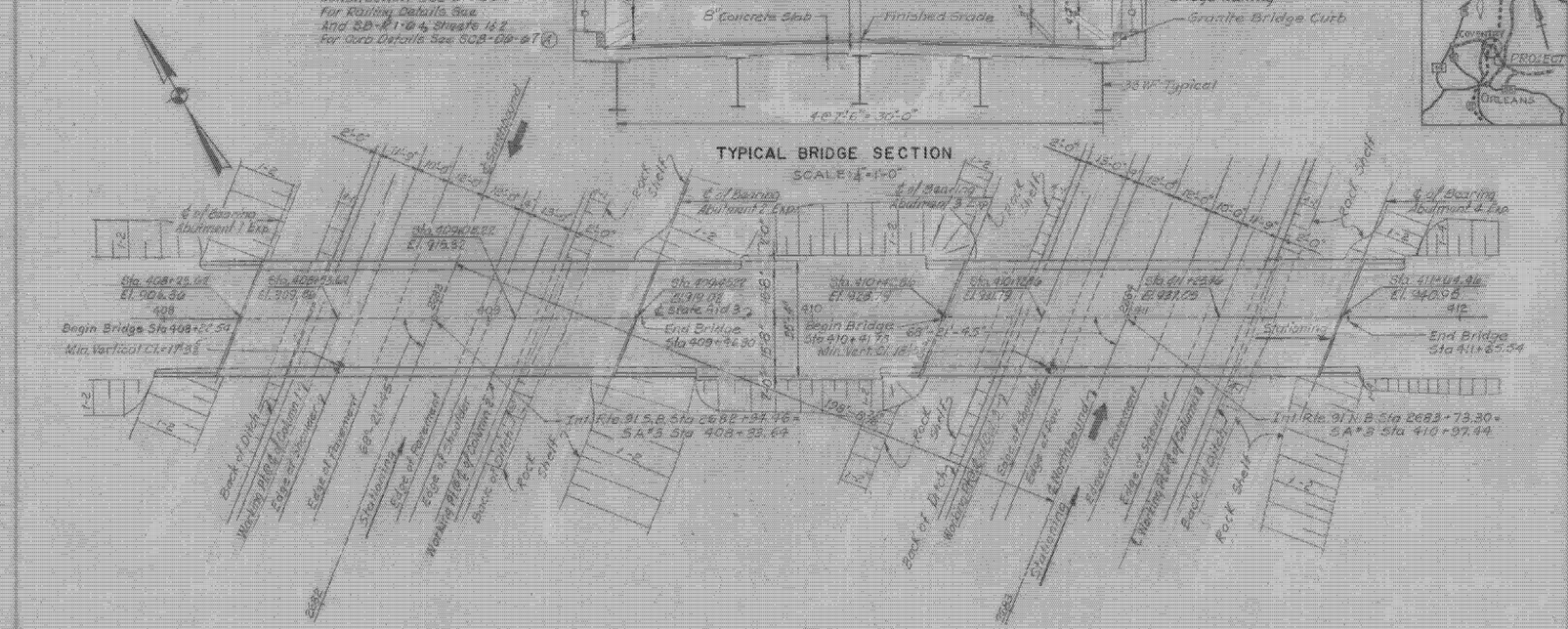
SCALE: 1" = 40'

Note: For Details of Deck Construction see DR 204
For Railing Details See
And SB-B1.10 & Sheets 1 & 2
For Curb Details See SCB-09-67



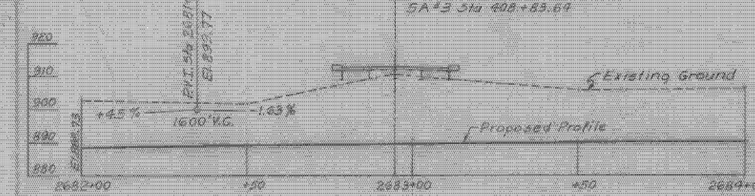
TYPICAL BRIDGE SECTION

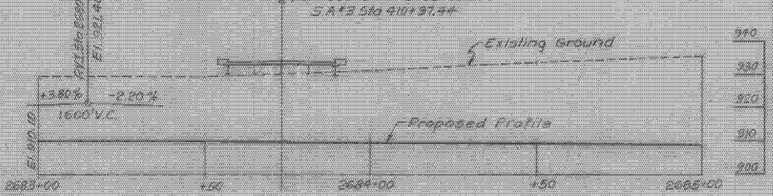
SCALE ¼" = 1'-0"



PLAN

SCALE: 1" = 20'





PROFILE OF PROPOSED INT. ROUTE 91

SCALE: 1" = 20'

BRIDGE NO. I-91 NAME OF HIGHWAY Interstate

STRUCTURE NO. COUNTY Orleans TOWN Coventry

PROJECT NO. I 91-3(8) LOCATION STATE AID 3 OVER I-91

EXISTING STRUCTURE

1 RATED LOADING OF EXISTING STRUCTURE
2 AGE OF EXISTING STRUCTURE
3 PROPOSED ALIGNMENT ELEVATION OF EXISTING STRUCTURE
4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE? COST OF REMOVAL
5 SHOULD EXISTING STRUCTURE BE USED FOR MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE?
6 SHOULD NEW TEMPORARY STRUCTURE BE PROVIDED?
7 PROBABLE HIGH WATER DURING ELEV. AT EXISTING STRUCTURE WATERWAY TO DRAINAGE N.A.
8 EXTREME HIGH WATER AT EXISTING STRUCTURE
9 SIZE OF EXISTING BRIDGE WATERWAY WATERWAY TO DRAINAGE N.A.
SIZE OF EXISTING CULVERT WATERWAY WATERWAY TO DRAINAGE N.A.
10 TYPE OF PROTECTION AT EXISTING ABUTMENTS
11 DOES ICE COVER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE?
12 IS THE WORK ELEVATION IN DELAY ADVISED?
ADDITIONAL WATERWAY AREA PROVIDED

NEW STRUCTURE

1 RECOMMENDED TYPE OF STRUCTURE 3 span Steel Rigid Frame (Non-Composite)
2 RECOMMENDED CLEAR RIDE ON DECK 30.0 - 54.60 - 37.0
3 SUGGESTED ROADWAY WIDTH OVER BRIDGE 30.0 - 54.60 - 37.0
4 SUGGESTED SKEW ANGLES TO R. STREAM N.A.
5 ARE THERE CONDITIONS TO A FORK IN THE STREAM BENEATH THE ON NO N.A.
6 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE N.A.
7 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE N.A. SOURCE OF INFORMATION N.A.
8 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE? N.A.
9 HIGH STREAM BANKS ITS MAXIMUM HIGH WATER ELEVATION REACHED? N.A. IF ORDINARY HIGH RATIO N.A.
10 LOW WATER ELEVATION AT NEW STRUCTURE N.A.
11 DRAINAGE AREA IN ACRES ABOVE STRUCTURE N.A. CHARACTER OF TERRAIN
12 IS STREAM SWIFT DRY N.A.
13 VELOCITY OF STREAM AT HIGH WATER STAGE N.A. ESTIMATED DISCHARGE N.A.
14 AREA FULL OPENING N.A. AREA BELOW ORDINARY H.W. N.A.
15 CHARACTER OF BEDS N.A. DRIFT N.A. SIZE N.A.
16 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE N.A.
17 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION N.A.
18 ARE SIDEWALKS REQUIRED? IF SO ON WHAT SIDE? NO WITH WIDTH
19 RECOMMENDED TYPE OF PAVEMENT 2" Bituminous Concrete, 8" Concrete
20 TRAFFIC TO BE MAINTAINED UNDER FOR N.A. ONE OR TWO WAYS PROBABLE COST
21 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE N.A.
22 WOULD PROTECTION BE MADE FOR PUBLIC UTILITIES? NO
23 ESTIMATED ROADWAY LENGTH OF APPROACHES * WOULD FILLS BE WIDER? NO COST WITH N.A.

* 3" Tons/Ac. & Fillets & Aprons.

FOUNDATION INFORMATION

DESIGNED FOR BRIDGE PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN. BORINGS MAY BE ENCOUNTERED AT ANY POINT OR EQUIPMENT LOCATION.

Design Stresses:
Concrete f'_c = 3000 p.s.i. f_c = 1200 p.s.i.
Structural Steel f_s = 20,000 p.s.i. (A-36) others per AASHO 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: HS20-44

BARTON-COVENTRY
IM BPNT (11)
SHEET 77 OF 84
BRIDGES 108N&S
FOR REFERENCE ONLY

Changed Poly width from 30'-0" to 31'-9", curb width from 2'-8" to 2'-0", deck thickness from 7½" to 8", Bit. Conc. from 1½" to 2" E. Tosta 4/28/69

RECOMMENDED FOR APPROVAL — CONSTRUCTION ENGR. — DATE 9-15-69
RECOMMENDED FOR APPROVAL — DIST. ENGINEER — DATE 9-15-69
RECOMMENDED FOR APPROVAL — CHIEF ENGINEER — DATE 9-15-69
APPROVED BY: — STATE ENGINEER — DATE 9/15/69

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

I-91 IN THE TOWNS OF
COVENTRY BR. # 108-S
ROUTE NO. I-91 STA. 2683 ±
ROUTE SA 3 OVER I-91

DRAWN BY A.K.N. ACC. CHK. 12-5-69 AS SHOWN
PROJECT NO. I91-3(8) SHEET 201 OF 605