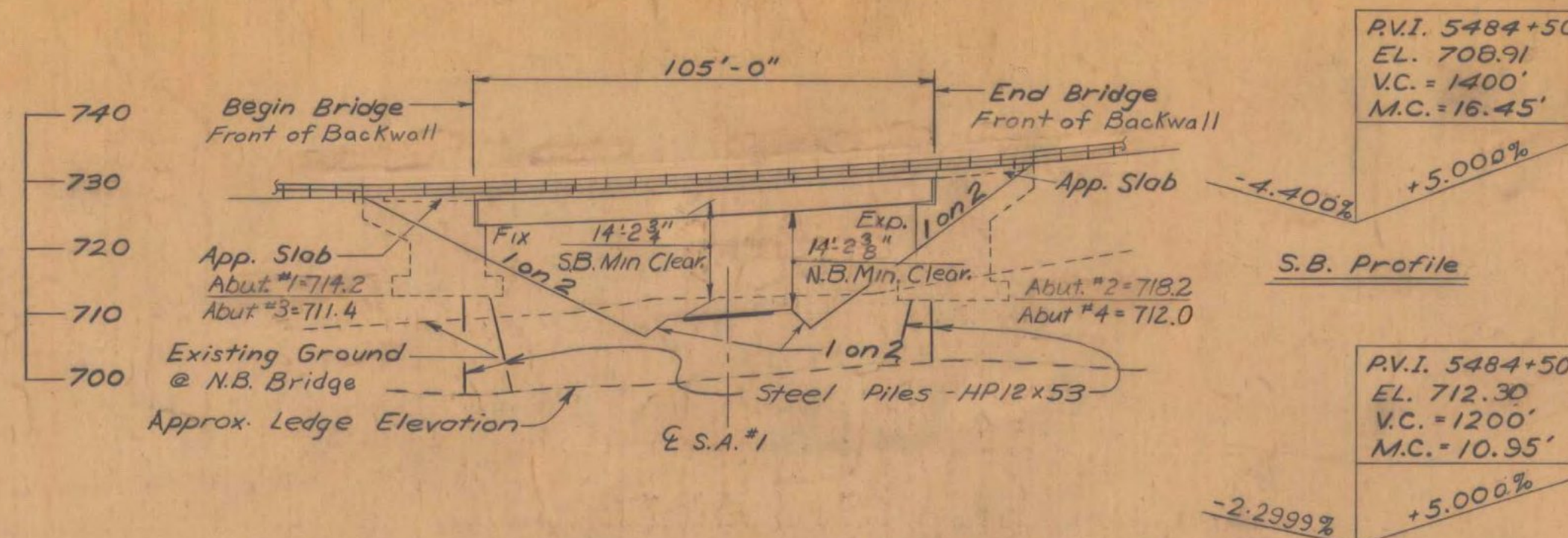
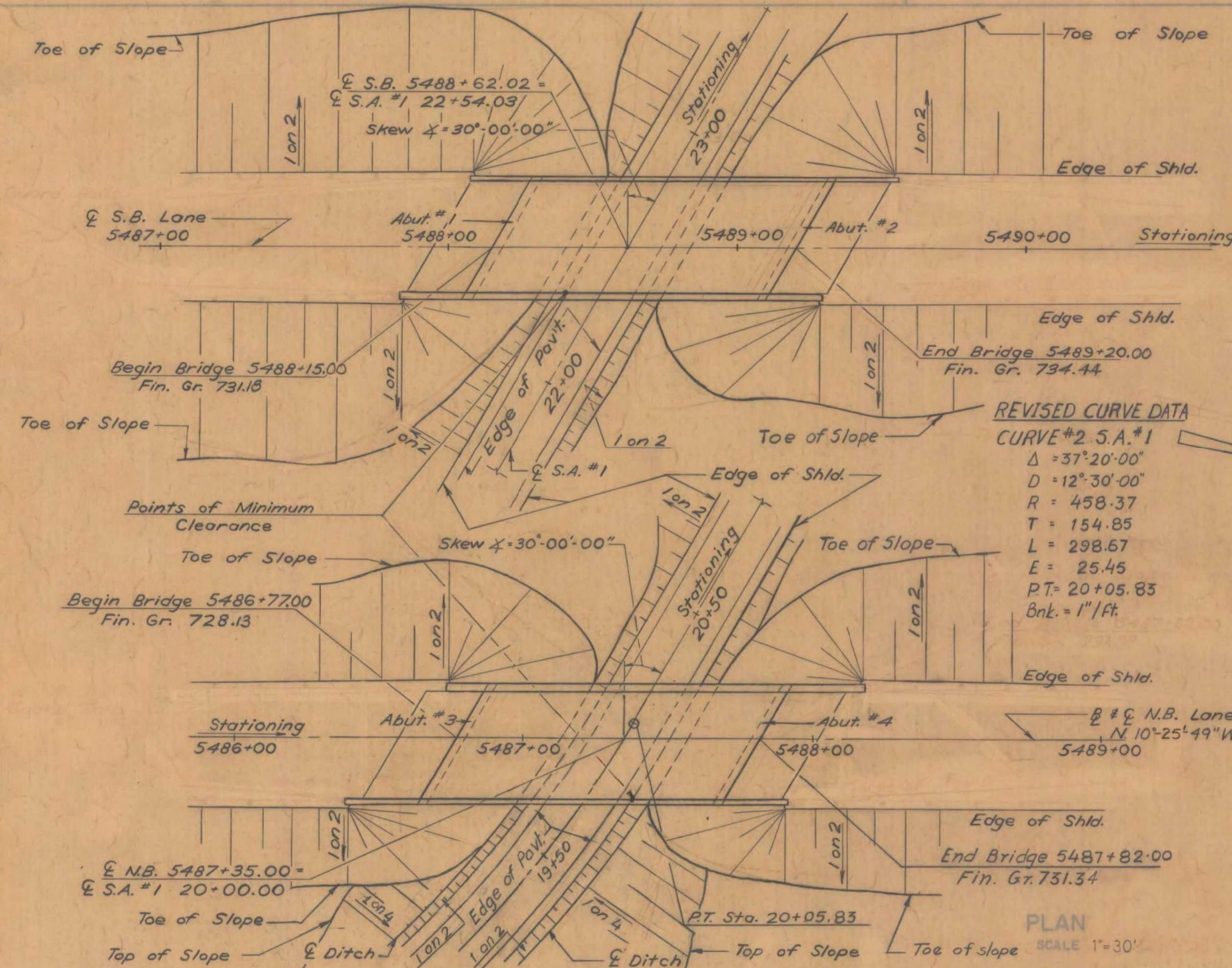


NEW HIGHWAY SECT. STA. 5485+00 TO STA. 5489+00  
SCALE 1"=10'



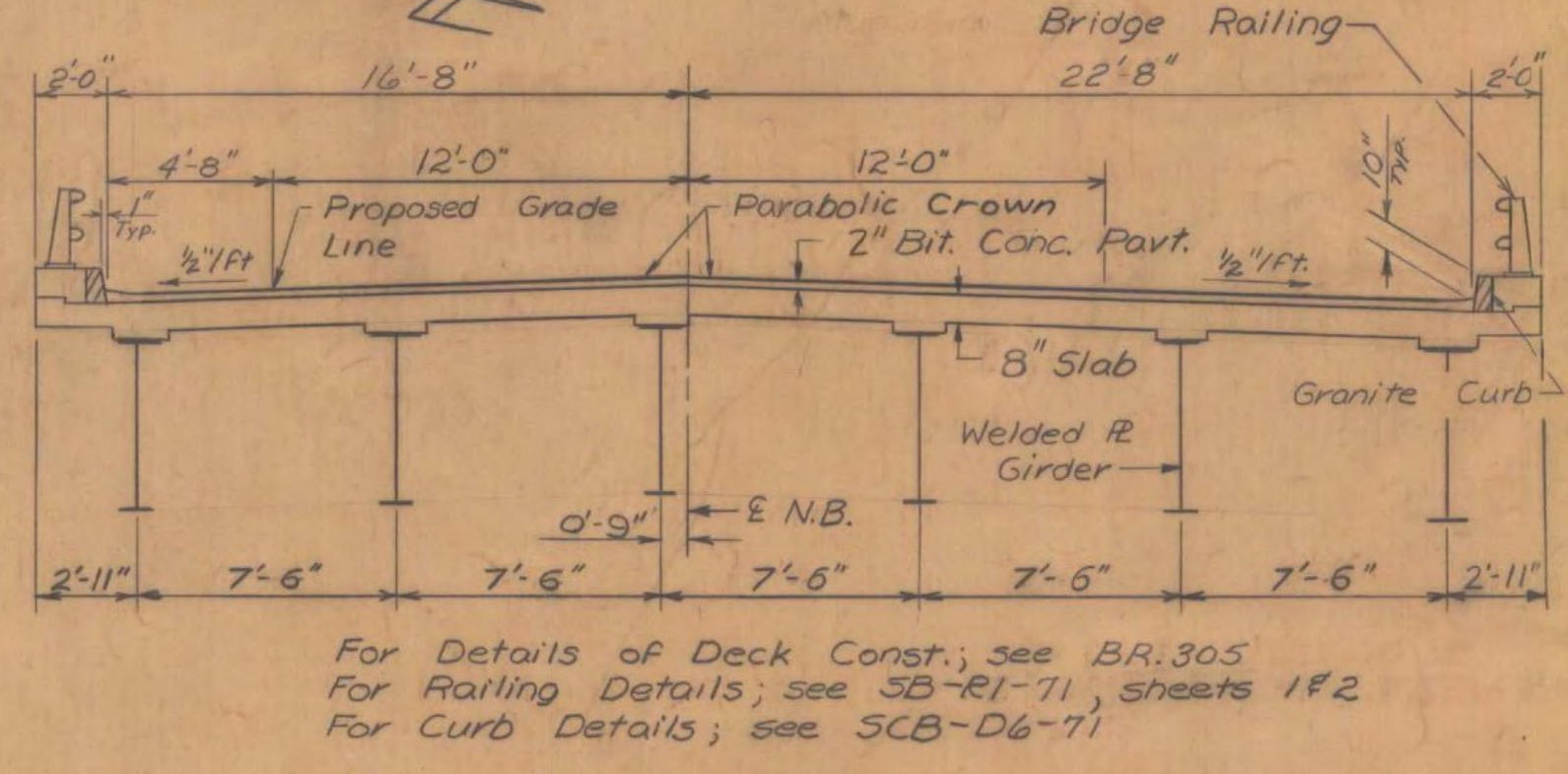
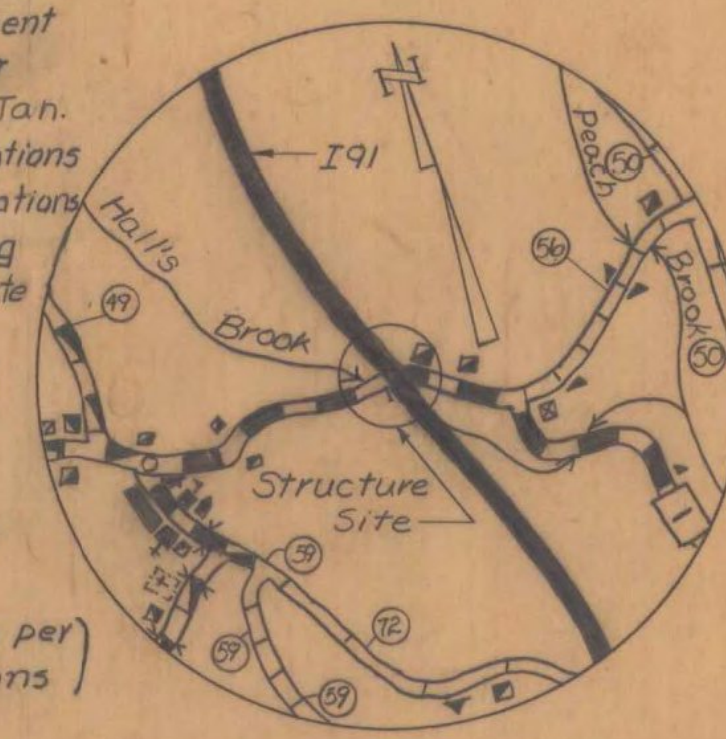
NEW HIGHWAY PROFILE ALONG N.B. & S.B. LANES  
SCALE: 1"=30' HORIZ. & 1"=20' VERT.



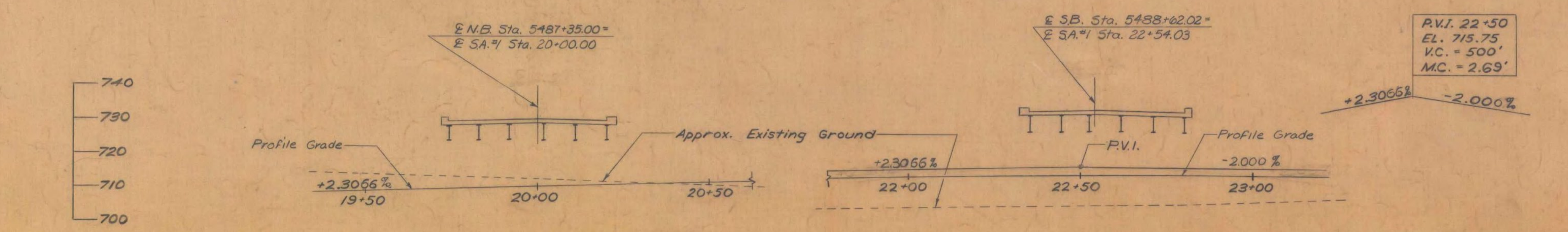
**REVISED CURVE DATA**  
CURVE #2 S.A. #1  
 $\Delta = 37^{\circ}20'00''$   
 $D = 12^{\circ}30'00''$   
 $R = 458.37$   
 $T = 154.85$   
 $L = 298.67$   
 $E = 25.45$   
 $PT = 20+05.83$   
 $Bnk = 1' / ft.$

**NOTE:** All materials and construction shall conform to the State of Vermont, Department of Highways, Standard Specifications for Highway and Bridge Construction dated Jan. 1972 and the AASHTO Standard Specifications dated 1969, as modified by Interim Specifications. Structure designed for HS20-44 loading modified for National System of Interstate Highways applied in accordance with the provisions of the AASHTO Standard Specifications Article 1.2.B

**DESIGN STRESSES**  
Concrete -  $f_c = 3000$  psi,  $f_c = 1200$  psi  
Structural steel -  $f_s = 20,000$  psi (A36 - other steels as per AASHTO Specifications)  
Reinforcing Steel -  $f_s = 20,000$  psi (tension),  $f_s = 16,000$  psi (compression)



TYPICAL SECTION  
SCALE 1"=5'



PROFILE OF PROPOSED S.A. #1  
SCALE 1"=20'

**REVISIONS**  
Revised approach slabs, bridge railing and curb width.  
10-71 D. Lathrop

**REVISIONS**  
Bearing N10°25'49"W 7-20-66 AMCD.  
Clearance 7-26-66 RC.

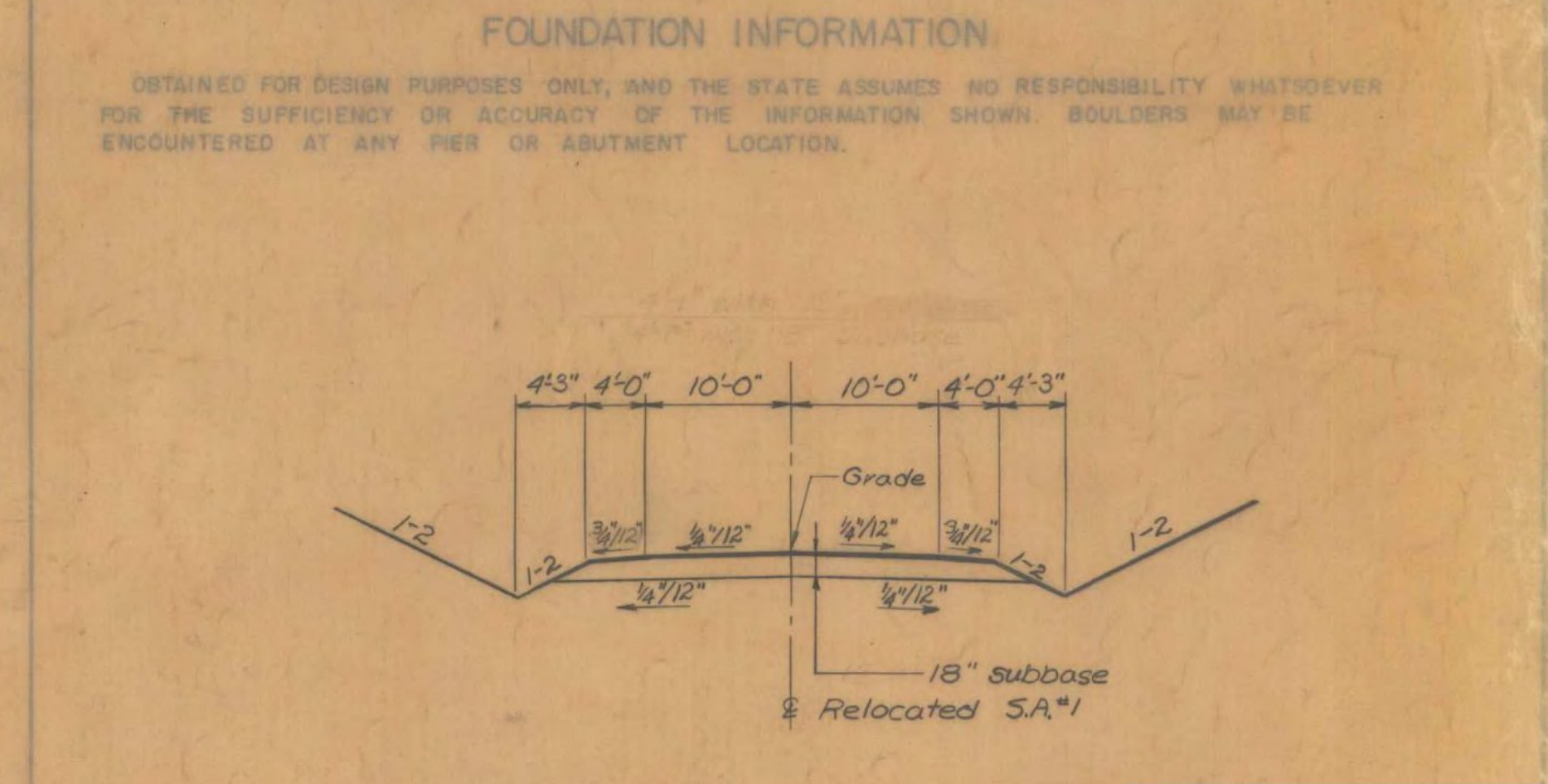
HIGHWAY NO. I 91 NAME OF HIGHWAY INTERSTATE ROUTE 91  
STRUCTURE NO. 2 COUNTY ORANGE TOWN NEWBURY  
PROJECT NO. I-91-2(11) LOCATION I 91 OVER SA# 1

**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.
- 10 SPAN OF EXISTING BRIDGE DOWNSTREAM WATERWAY TO EXTREME H.W.
- 11 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS
- 12 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE?
- 13 IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED?
- 14 ADDITIONAL WATERWAY AREA PROVIDED

**NEW STRUCTURE**

- 1 RECOMMENDED TYPE OF STRUCTURE 2 Single Span Bridges, Welded R Girder, Composite
- 2 RECOMMENDED CLEAR SPAN OR SPANS 105'-0", 105'-0"
- 3 MEASURED PARALLEL TO NEW HIGHWAY 105'-0", 105'-0"
- 4 MEASURED AT RIGHT ANGLES TO STREAM
- 5 ARE THERE OBJECTIONS TO A PIER IN THE STREAM? ANSWER YES OR NO
- 6 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE SOURCE OF INFORMATION
- 7 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE?
- 8 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? IS ORDINARY RISE RAPID?
- 9 LOW WATER ELEVATION AT NEW STRUCTURE
- 10 DRAINAGE AREA IN ACRES ABOVE STRUCTURE CHARACTER OF TERRAIN
- 11 IS STREAM EVER DRY?
- 12 VELOCITY OF STREAM AT HIGH WATER STAGE ESTIMATED DISCHARGE
- 13 AREA FULL OPENING AREA BELOW ORDINARY H.W.
- 14 CHARACTER OF SCOUR DRIFT ICE
- 15 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE
- 16 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION No BOTH SIDES
- 17 ARE SIDEWALKS REQUIRED? IF SO ON WHAT SIDE? No
- 18 RECOMMENDED TYPE OF PAVEMENT 2" Bituminous Concrete, 8" Concrete
- 19 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. ONE OR TWO WAYS PROBABLE COST
- 20 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE
- 21 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? No
- 22 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 45 Tons/Pile SHOULD PILES BE USED? Yes EST. LST. Log



TYPICAL SECTION  
SCALE 1"=10'

BRADFORD - NEWBURY  
IM BPNT (14)  
PROJECT BRIDGE 63  
SHEET 23 OF 26  
FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL	<i>E. H. Sticker</i> CONSTRUCTION ENGINEER	9/25/65 DATE
RECOMMENDED FOR APPROVAL	<i>L. J. Brien</i> BRIDGE ENGINEER	9/24/65 DATE
RECOMMENDED FOR APPROVAL	<i>P. H. Cund</i> ASST. CHIEF ENGINEER	9/27/65 DATE
APPROVED BY	<i>A. P. Bishop</i> CHIEF ENGINEER	9/27/65 DATE

STATE OF VERMONT DEPARTMENT OF HIGHWAYS	
191	IN THE TOWNS OF
BRADFORD - NEWBURY	BR #63
ROUTE NO. I 91	LOG STA. 5488+00
INTERSTATE OVER S.A. #1	
MPFARLAND - JOHNSON CONSULTING ENGINEERS	
DESIGNED BY RYE, CHASE & BROS.	DRAWN BY E. J. Brien
PROJECT NO. I-91-2(11)	SHEET 120 OF 347