

SHEET NO. 73 BLANK
74 BLANK
75-94 BLANK

SPRINGFIELD TERMINAL RR BRIDGE

95 BR 81 PRELIMINARY INFORMATION SHEET

96 66 PLAN VIEW

97 67 BORING LOG

98 68 BRIDGE QUANTITY SHEET

99 BLANK

100 70 FRAMING PLAN

101 71 NB ABUTMENT DETAILS

102 72 SB ABUTMENT DETAILS

103 77 REINFORCING STEEL SCHEDULE NB

104 BR 78 REINFORCING STEEL SCHEDULE SB

105 BR 80 REINFORCING STEEL SCHEDULE SB

US # 5 AND VERMONT ROUTE II

106 BR 82 PRELIMINARY INFORMATION SHEET

107 83 NORTHBOUND BORING LOGS

108 84 SOUTHBOUND BORING LOGS

109 85 QUANTITY SUMMARY NB AND SB

110 86 TYPICAL SECTIONS NB AND SB

111 87 FRAMING PLAN NB AND SB

112 88 NORTHBOUND PLAN AND ELEVATION

113 89 NORTHBOUND ABUTMENTS NOS. 1 AND 2

114 90 SOUTHBOUND PIER NO 1

115 91 NORTHBOUND PIERS NOS. 2 AND 3

116 92 SOUTHBOUND PLAN AND ELEVATION

117 93 SOUTHBOUND ABUTMENTS NOS. 1 AND 2

118 94 SOUTHBOUND PIER NOS. 1, 2 AND 3

119 95 BEARING DEVICES NB AND SB

120 96 DETAILS OF EXPANSION JOINTS AT ABUTMENTS

121 98 NORTHBOUND REINFORCING STEEL SCHEDULE

122 BR 99 SOUTHBOUND REINFORCING STEEL SCHEDULE

123 BR 97 APPROACH SLABS NB & SB

124 -141 MAINLINE CROSS SECTIONS

102-A APPROACH SLAB #1 SPRINGFIELD TERM. RR
102-B " " " " " "
102-C " " " " " "
102-D " " " " " "

103-A BR 78 REINFORCING STEEL SCHEDULE

B

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
— . —
PROPOSED IMPROVEMENT

CONTRACT 3
INTERSTATE PROJECT

TOWN OF SPRINGFIELD
COUNTY OF WINDSOR
INTERSTATE ROUTE 91
BELLOWS FALLS-WHITE RIVER JCT. ROAD

BRIDGE NO. 1 220.66 FEET

BRIDGE NO. 3 74.00 FEET

BRIDGE NO. 3	14.00 FEET
BRIDGE NO. 4	204.54 FEET

LENGTH OF BRIDGES	499.20 FEET	0.094 MILES
LENGTH OF CONTRACT	499.20 FEET	0.094 MILES

BRIDGE NO. 3

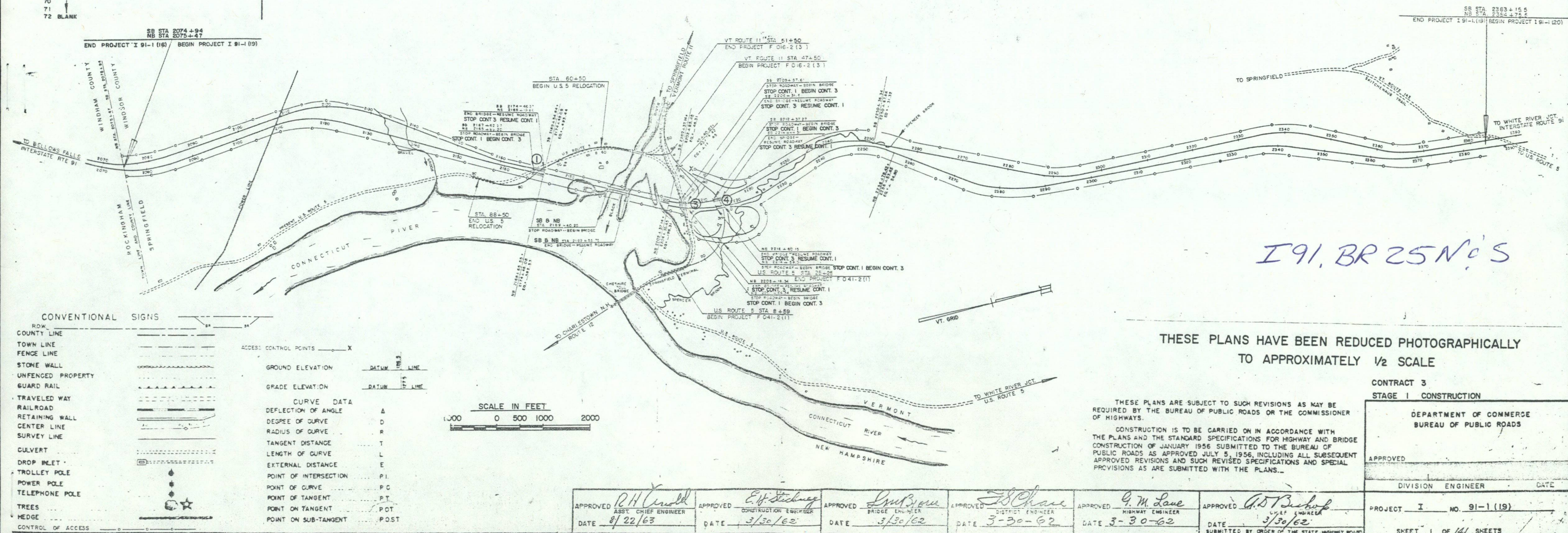
BEGINNING AT A POINT 2.361 MILES NORTHERLY OF THE WINDHAM - WINDSOR COUNTY LINE AND EXTENDING 0.014 MILES NORTHERLY.

BRIDGE NO. 4

BEGINNING AT A POINT 2.493 MILES NORTHERLY OF THE WINDHAM - WINDSOR COUNTY LINE AND EXTENDING 0.039 MILES NORTHERLY.

BRIDGE NO. 1
BEGINNING AT A POINT 1.733 MILES NORTHERLY OF THE WINDHAM-
WINDSOR COUNTY LINE AND EXTENDING 0.041 MILES NORTHERLY.

	SOUTH OF INTERCHANGE	NORTH OF INTERCHANGE
A.D.T. 1958	2,445	3,145
A.D.T. 1973 (EST)	5,420	6,970
D.H.V. (1975)	800	970
D.	51.5 %	61 %
T.	8 %	8 %
V.	40.5	



I91 BR 25 No's

THESE PLANS HAVE BEEN REDUCED PHOTOGRAPHICALLY
TO APPROXIMATELY 1/2 SCALE

CONTRACT 3
STAGE 1 CONSTRUCTION

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

DIVISION ENGINEER . DATE

PROJECT I NO. 91-1 (19)

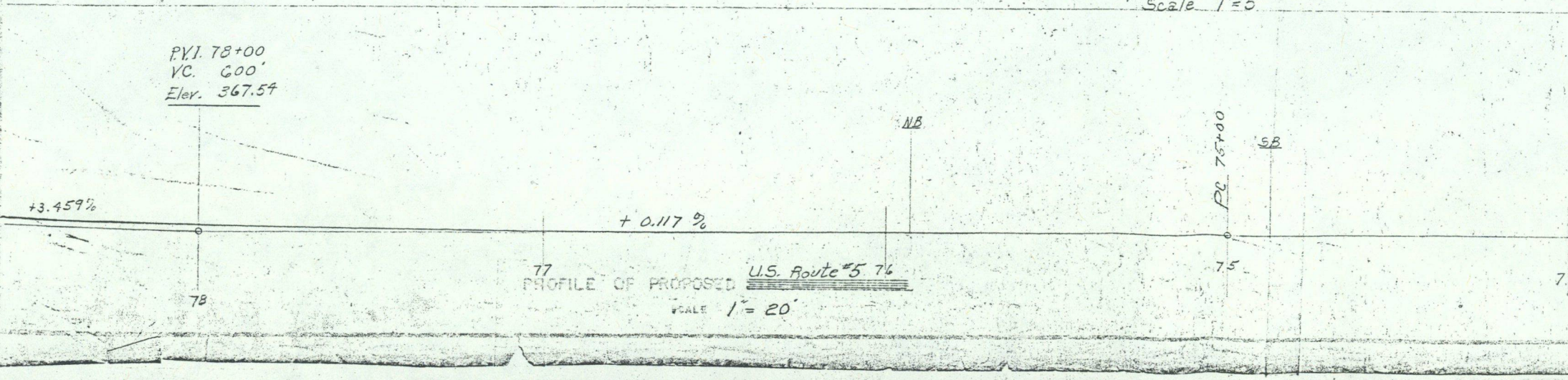
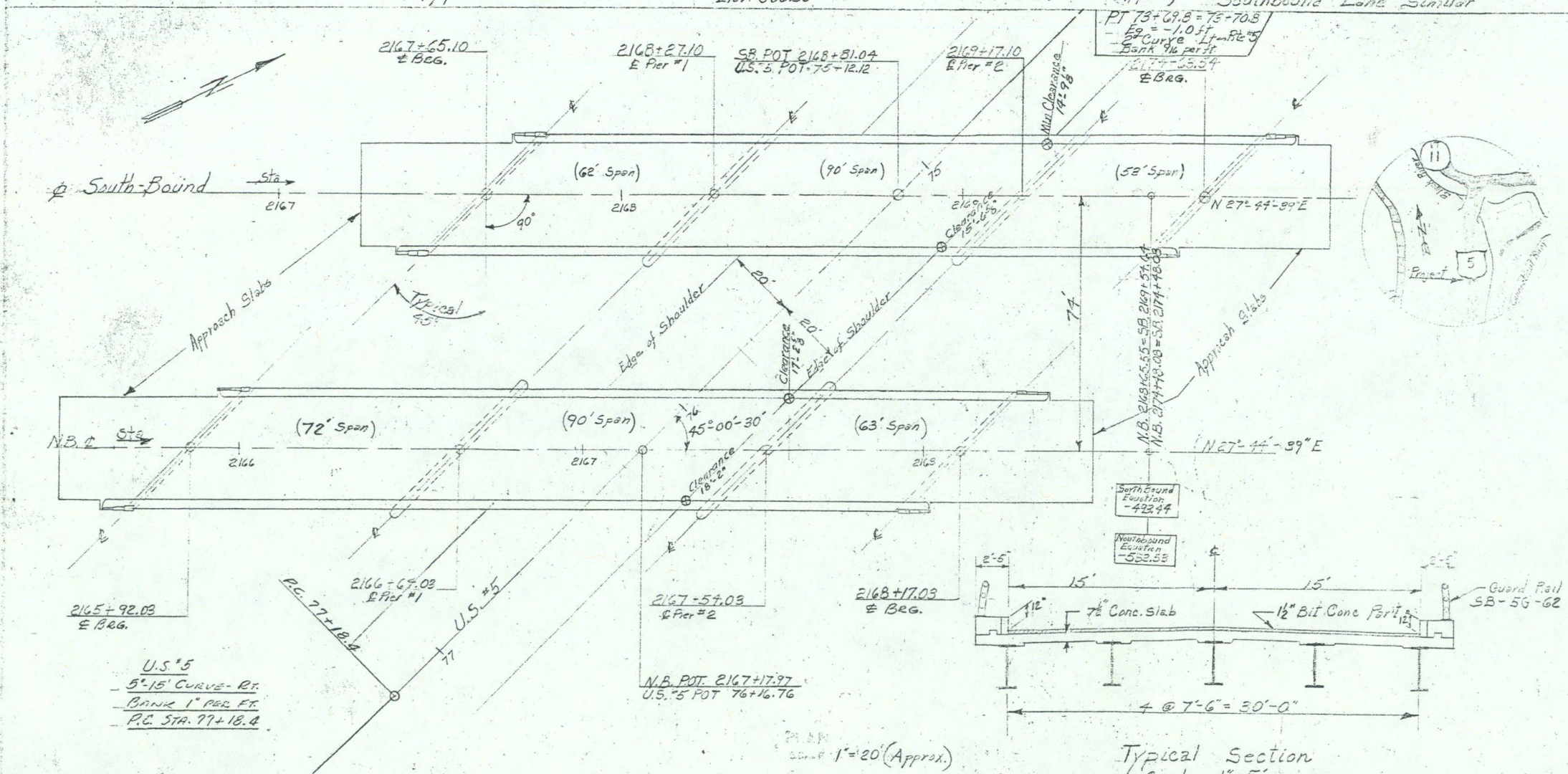
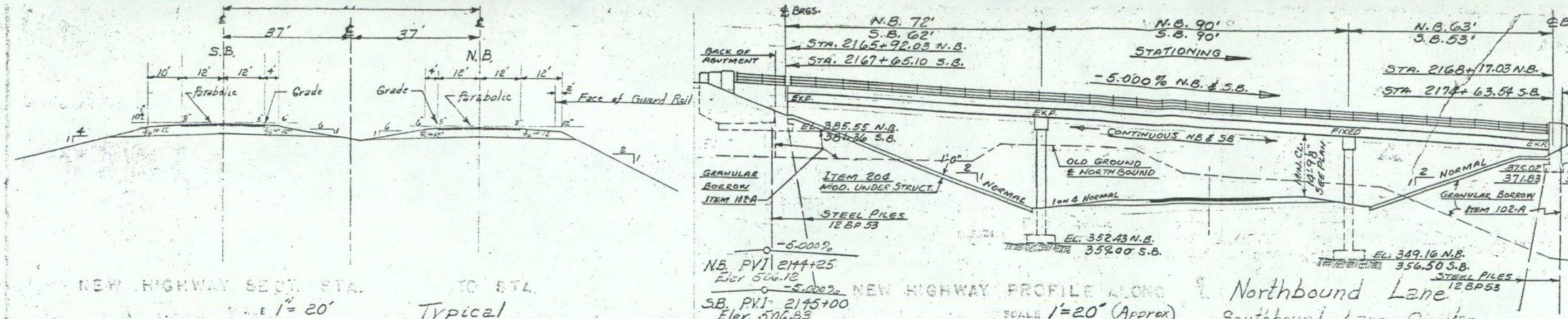
SHEET 1 OF 141 SHEETS

THESE PLANS ARE SUBJECT TO SUCH REVISIONS AS MAY BE
REQUIRED BY THE BUREAU OF PUBLIC ROADS OR THE COMMISSIONER
OF HIGHWAYS.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THE PLANS AND THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION OF JANUARY 1956 SUBMITTED TO THE BUREAU OF PUBLIC ROADS AS APPROVED JULY 5, 1956, INCLUDING ALL SUBSEQUENT APPROVED REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PREVISIONS AS ARE SUBMITTED WITH THE PLANS.

APPROVED <i>R.H. Arnold</i> ASST. CHIEF ENGINEER DATE <i>8/22/63</i>	APPROVED <i>E.H. Stuchess</i> CONSTRUCTION ENGINEER DATE <i>3/30/62</i>	APPROVED <i>Sam Brown</i> BRIDGE ENGINEER DATE <i>3/30/62</i>	APPROVED <i>F.B. Chase</i> DISTRICT ENGINEER DATE <i>3-30-62</i>	APPROVED <i>G. M. Lane</i> HIGHWAY ENGINEER DATE <i>3-30-62</i>	APPROVED <i>A.D. Bishop</i> CHIEF ENGINEER DATE <i>3/30/62</i>
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SUBMITTED BY ORDER OF THE STATE HIGHWAY DEPT.



HIGHWAY NO. I-91 NAME OF HIGHWAY INTERSTATE

STRUCTURE NO. 5-2, B-2 COUNTY WINDSOR TOWN SPRINGFIELD

PROJECT NO. I-91-1(19) LOCATION 0.75 Miles south of the intersection of U.S. 5 and VT. 11 on U.S. 5

EXISTING STRUCTURE

1. TYPE OF EXISTING STRUCTURE

2. TYPE OF EXISTING STRUCTURE

3. UNDERSTANDING OF EXISTING STRUCTURE

4. WHAT DIMENSIONS SHOULD BE MADE OF EXISTING STRUCTURE

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. OF EXISTING STRUCTURE

8. EXTREME HIGH WATER SURFACE ELEV. OF EXISTING STRUCTURE

9. SPAN OF EXISTING BRIDGE

10. TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS

11. DOES ALL HIGHWAY FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE

12. HIGHEST FLOOD ELEVATION TO BE APPLIED

13. ADDITIONAL WATERWAY AREA PROVIDED

NEW STRUCTURE

1. RECOMMENDED TYPE OF STRUCTURE

2. DIMENSIONS OF BRIDGE OR SPANS 72, 90, 63 N.B.; 62, 90, 58 S.B.

3. APPROX. SPAN LENGTH Route 5 S.B. center spans 62.65 N.B. & S.B.

4. TYPE OF TRAFFIC CONNECTIONS TO A HIGHWAY IN THE VICINITY, AND/OR YES OR NO

5. ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE

6. EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE

7. SPAN OF EXISTING BRIDGE

8. HIGHEST FLOOD ELEVATION TO BE APPLIED

9. CHARACTER OF TERRAIN

10. ESTIMATED DISBURSEMENT

11. AREA OF EXISTING BRIDGE

12. AREA OF NEW BRIDGE

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99. AREA OF EXISTING BRIDGE

100. AREA OF NEW BRIDGE

SEE BR-15.

PILES: Point Bearing, 45 Ton Design Capacity

FOOTINGS: Designed 10 KIP Capacity

BORINGS: SEE BORING LOG SHEET

INDEX OF BRIDGE SHEETS

SHEET NO.	DESCRIPTION
BR-10	PRELIMINARY INFORMATION SHEET
BR-11	BRIDGE QUANTITY SHEET
BR-12	PLAN (50 SCALE)
BR-13	PROFILE (50 SCALE)
BR-14	PLAN & ELEVATION (20 SCALE)
BR-15	BORING LOG
BR-16	FRAMING PLAN & TYPICAL SECTION
BR-17	EXPANSION JOINTS @ ABUTMENTS-NB & SB
BR-18	BEARINGS DEVICES-NB & SB
BR-19	APPROACH SLABS #1 & #2-NB & SB
BR-20	ABUTMENT #1-NB & SB
BR-21	ABUTMENT #2-NB & SB
BR-22	PIER #1 & PIER #2-NB
BR-23	PLAN & ELEVATION OF PIERS #1 & #2-SB
BR-24-25	REINFORCING STEEL DETAILS
BR-100	SCB-D6-G2-DETAILS A, C & F
BR-101	SB-5G-G2-SHEET 1 (RAILING DETAIL)
BR-102	SB-5G-G2-SHEET 2 (RAILING DETAIL)

SHEETS BR-26-28 OMITTED.

STATE OF VERMONT

ENGINES

SPRINGFIELD

I-91

Interstate over U.S. Route 5

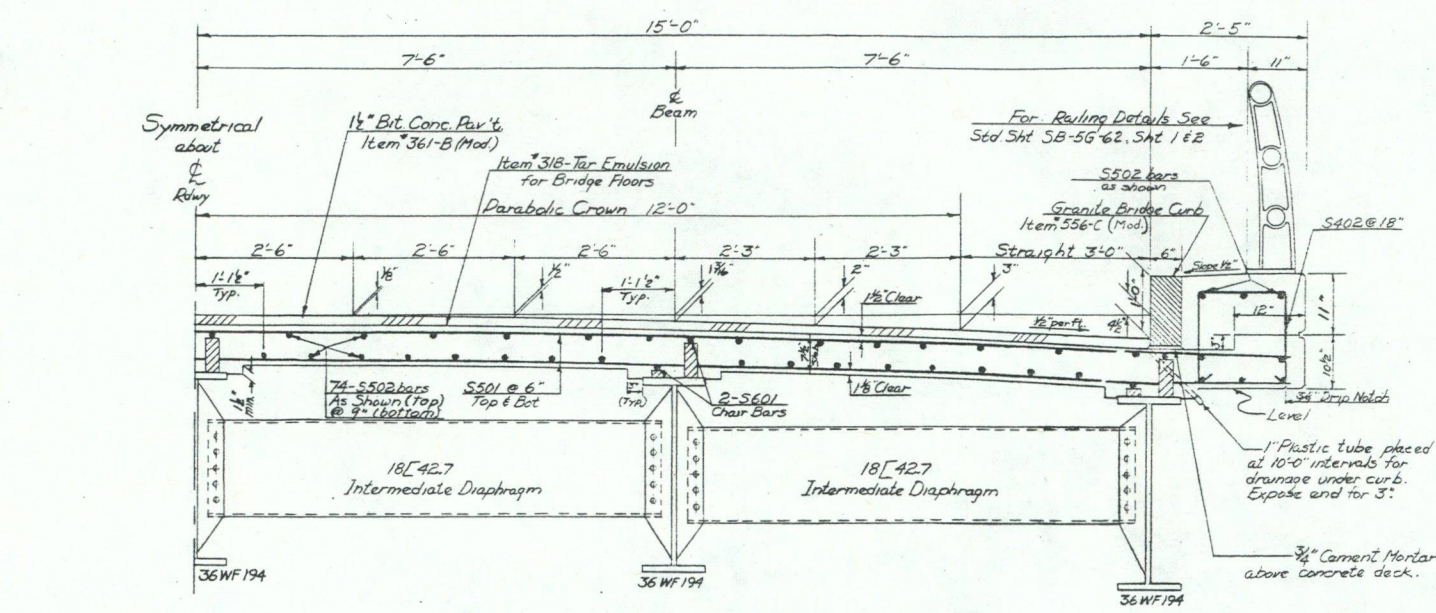
REVISION: NORTHBOUND SPANS CHANGED FROM 72'-90'-63' TO 72'-90'-63' 11-13-61 RLB

Jan 24, 1961

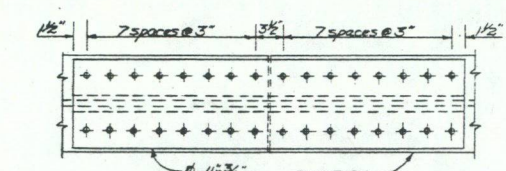
CONTRACT 3

BR-10

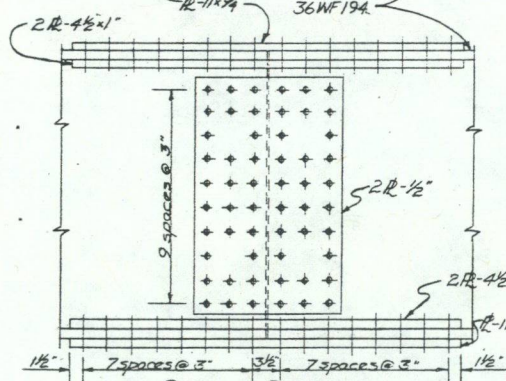
as shown at beam haunch, surface to be screeded, floated and broomed. Partial parabolic crown as per detail, to be obtained by stepping bridge seats.



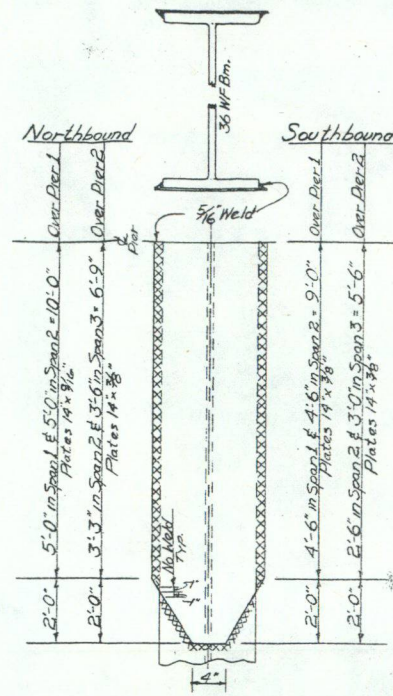
TYPICAL HALF SECTION



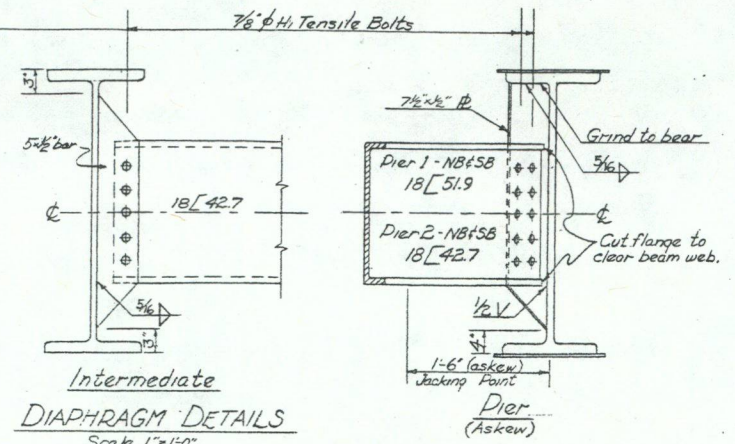
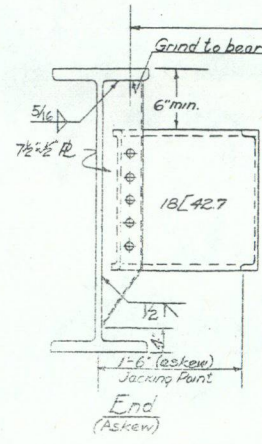
SLAB REINFORCING AT ABUT.



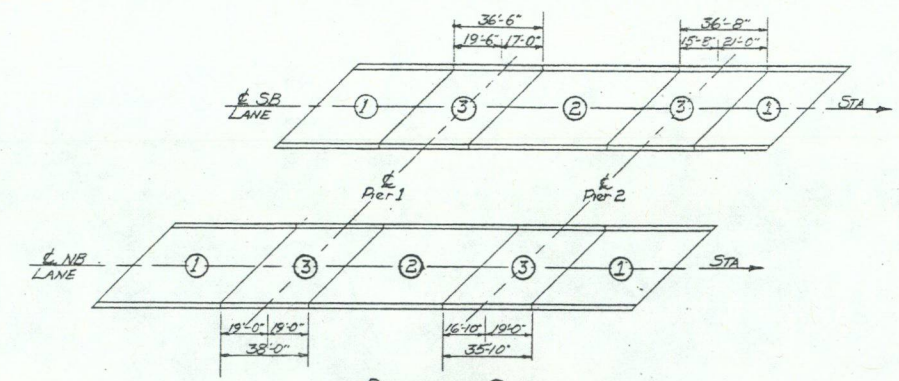
SPLICE DETAILS



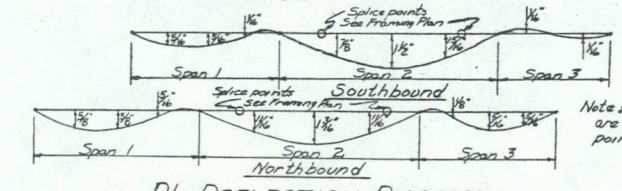
COVER PLATE DETAILS



INTERMEDIATE DIAPHRAGM DETAILS



POURING SCHEDULE

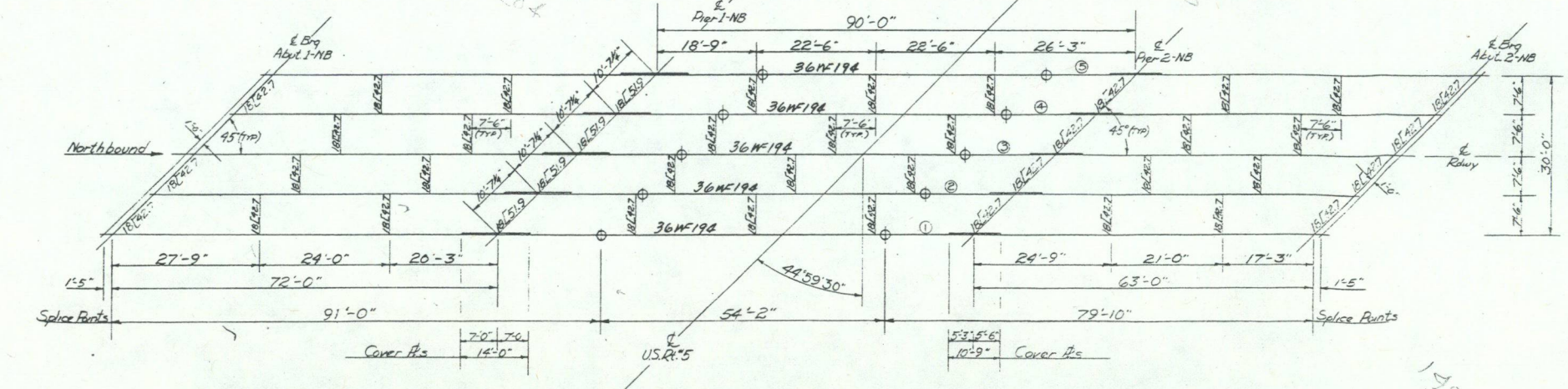


DL DEFLECTION DIAGRAM

NOTES

1. Beam splices shall be sub-punched, shop assembled and reamed in accordance with A.A.S.H.O. specs. Art. 2.10.10.
2. The concrete deck shall be placed in numerical order as indicated in the schedule shown on this sheet.
3. All bolts to be H.S. 7/8" ϕ & holes 1" unless otherwise noted, with connections made in accordance with 1961 A.A.S.H.O. specs. for Highway Bridges 2.10.20.
4. All beams shall be cambered for dead load deflection.

5. Structural steel for beams, cover plates, and splice plates shall be A.S.T.M. designation A-36-62T



FRAMING PLAN

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (MOD.)	C.Y.				
402	REINF. STEEL	LBS.				
407	ASPHALTIC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF SPRINGFIELD

ROUTE NO. I-91 STA. 216.8 ±

FRAMING PLAN & TYPICAL SECTION

INTERSTATE OVER U.S. RT. 5

SCALE AS NOTED

SURVEYED BY ---

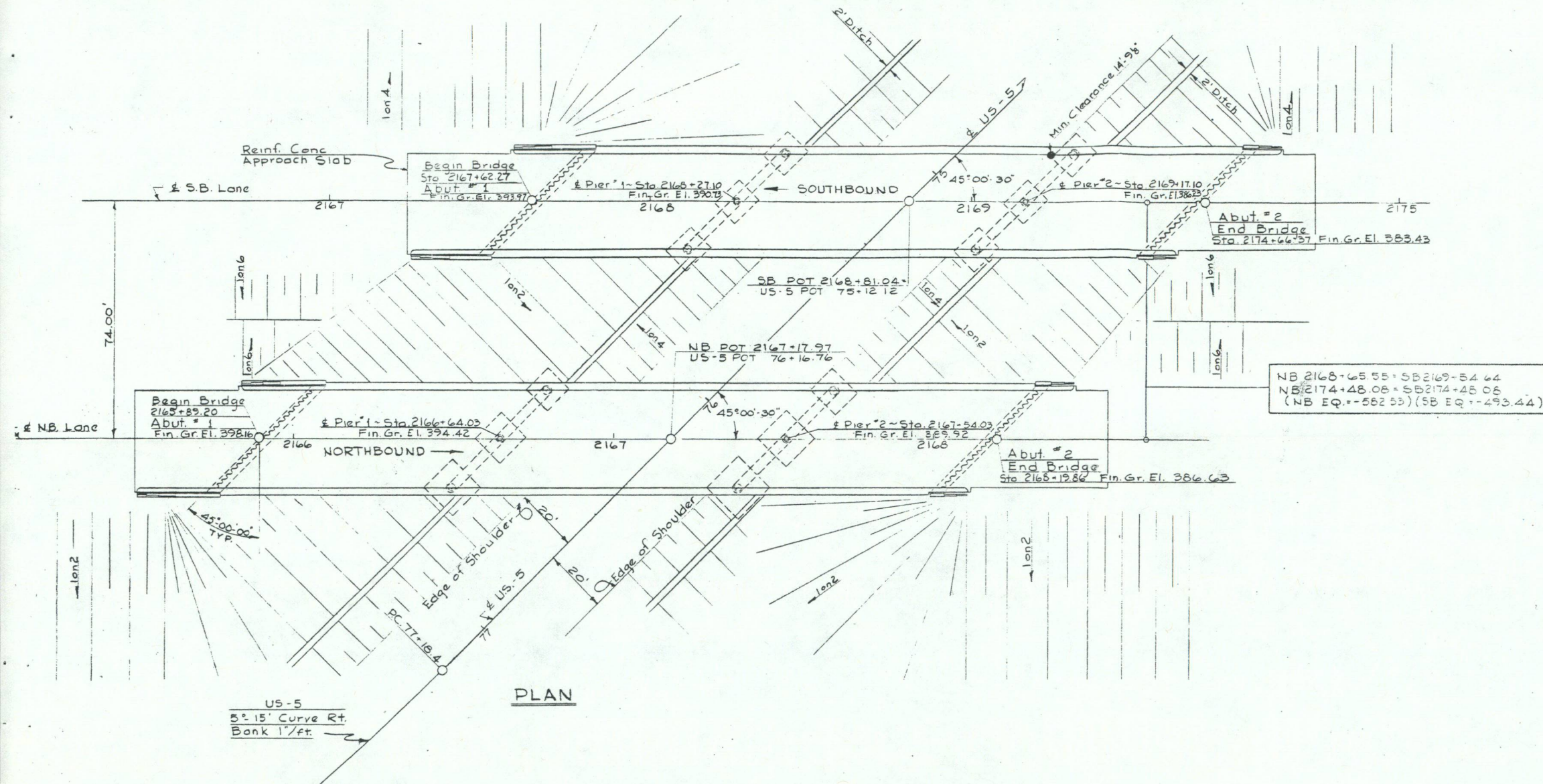
DRAWN BY RND CHECKED BY J.A.B.

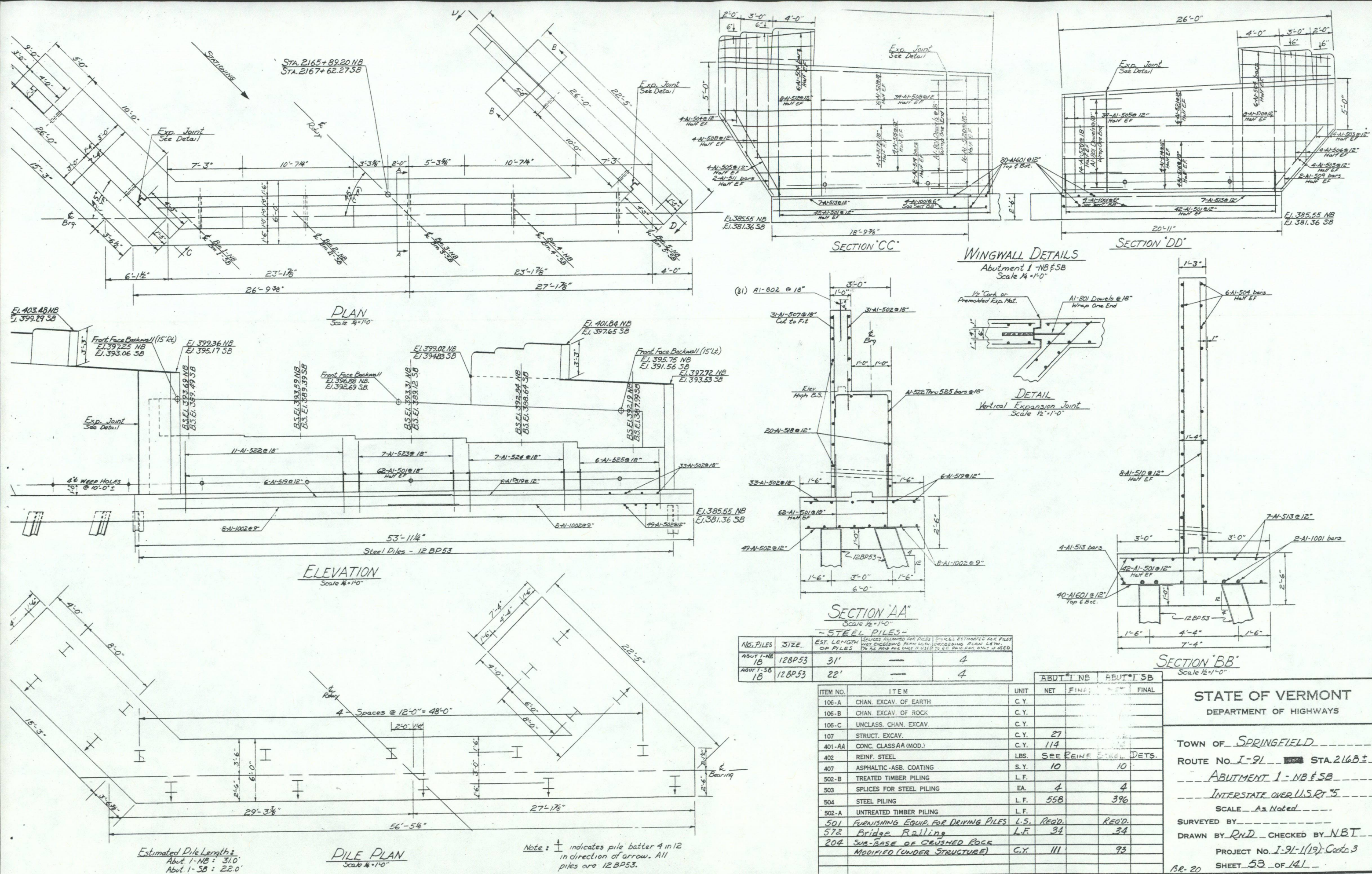
PROJECT NO. I-91-1(9) Grade 2

SHEET 50 OF 141

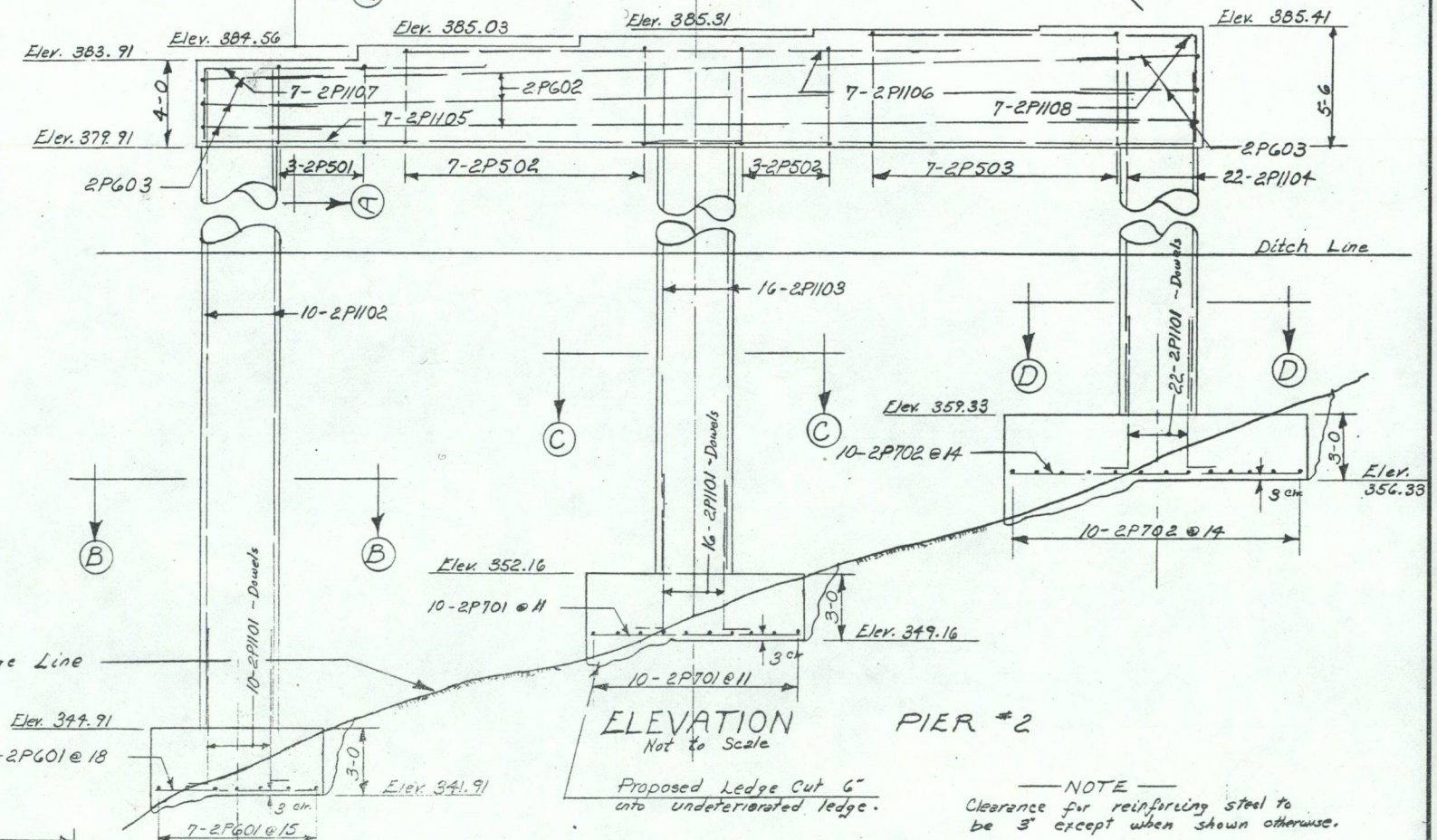
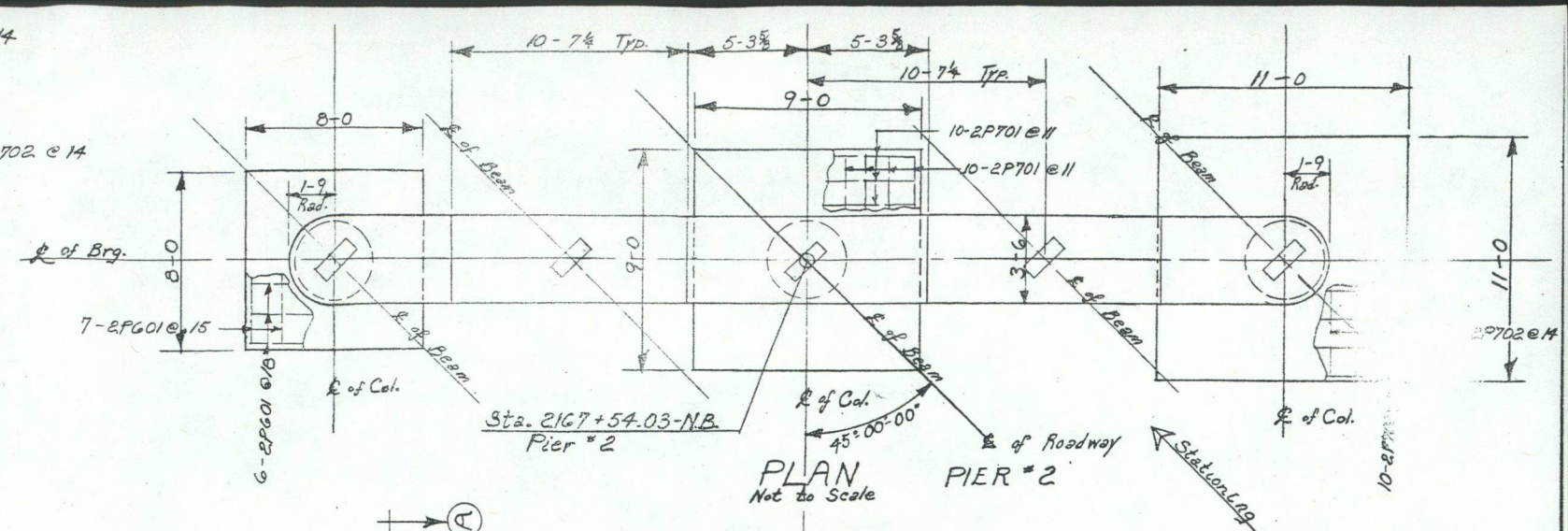
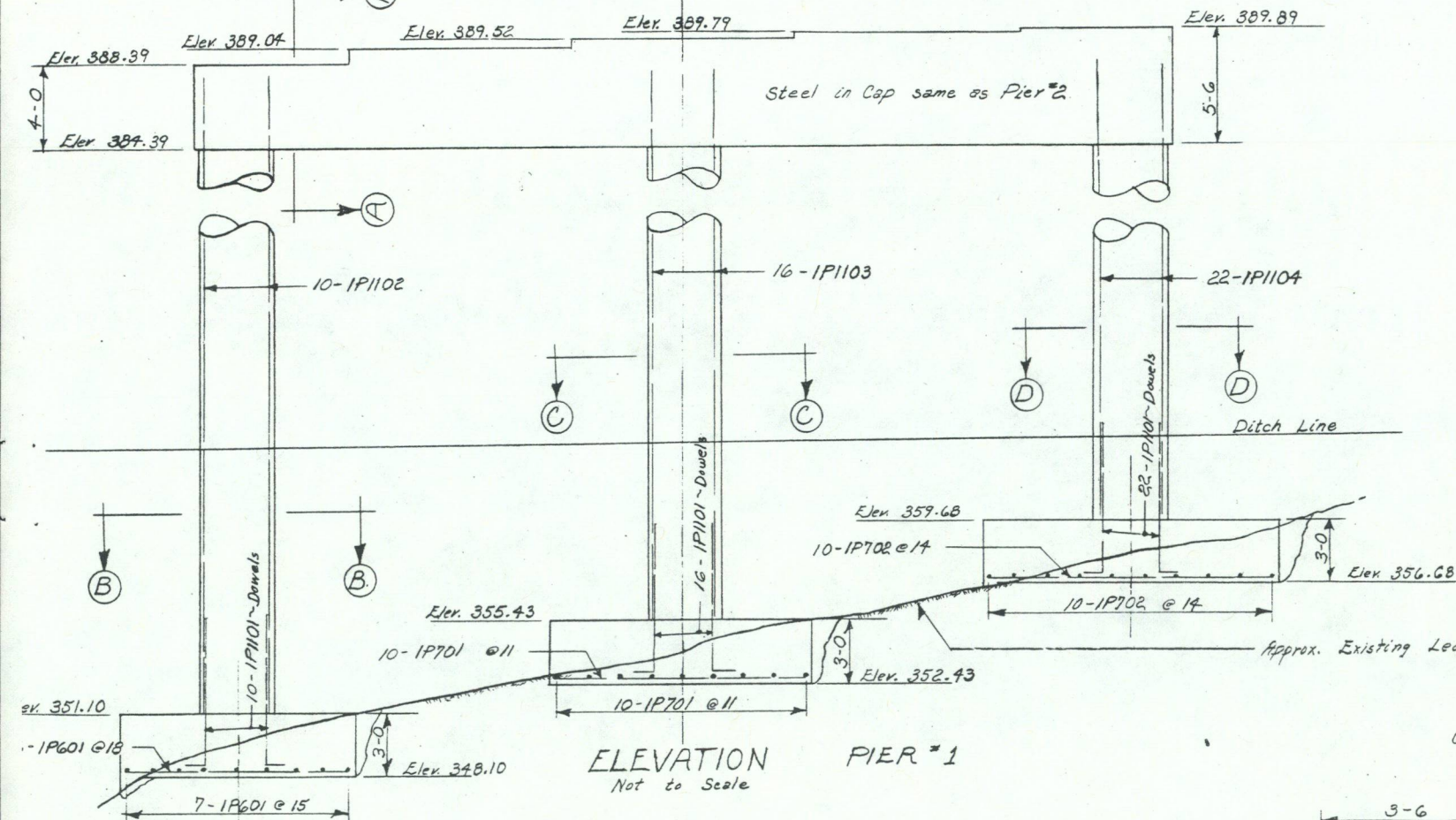
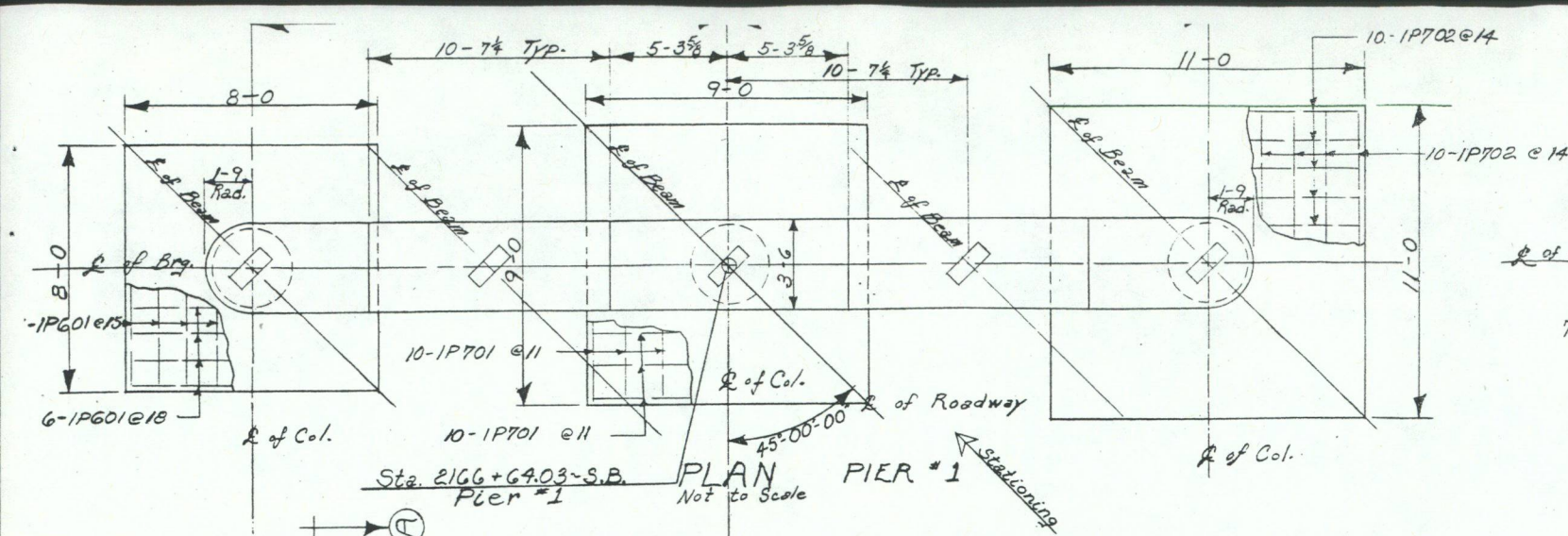
GENERAL NOTES

- Specifications: All materials and construction shall conform to the State of Vermont, Department of Highways, Standard Specifications for Highway and Bridge Construction, dated January, 1956 and the AASHTO Standard Specifications dated 1961.
- Live Load: Structure designed for H20-S16-44 loading modified for National System of Interstate Highways applied in accordance with the provisions of the AASHTO Standard Specifications Article 1.2.8.
- Concrete: All exposed edges of concrete shall be chamfered 1"x1" unless otherwise noted. All construction joints to be made as shown on SCB-DG-62, details B & C unless otherwise noted.
- Reinforcement: All reinforcement to have a clear cover of 3", unless otherwise noted.
- Embankments: Where granular material is indicated around bridge abutments, rock fill, if available, shall be substituted except in the area where piles are to be driven. Wherever materials from excavation are used in embankments requiring granular material, they shall be paid for as indicated under Item 101, Excavation.
- Blasting: Where rock is encountered, no blasting shall be done within 200 feet of any concrete structure and proper precaution against damage shall be taken when blasting outside this 200' limit.
- Dimensions: All dimensions given are measured horizontally or vertically unless otherwise noted. Dimensions given are for 68° F, unless otherwise noted. Elevation datum sea level based on nearest U.S. Government vertical control.
- Structural Steel: Item 404-A shall include all structural steel, copper, wrought iron, and any other metals indicated or required in the completed structure which are not otherwise classified. All structural steel shall be structural carbon steel conforming to the requirements of the specifications for steel bridges and buildings A.S.T.M. Designation A36-62 except as otherwise noted. The contractor shall submit complete details of the structural steel to the State of Vermont, Department of Highways, and receive their written approval prior to the start of fabrication. The steel details shall include provision for the cambering of beams for dead load deflection as well as erection diagrams and falsework details. The final coat of field paint shall be green.
- Steel Piles: Steel Hearing Piles (12 BP 53) shall be driven to ledge rock (Point bearing capacity 45 tons) unless otherwise approved by the engineer. When piles are driven in fill, the material should be such as to have no stones large enough to interfere with the driving of the piles.
- Abutments & Piers: The top surfaces of all abutments and piers shall be sloped 1/4" per foot from the front edge of abutment curtainwalls or center lines of piers, except for bearing pads projecting 1" or more above the general area, which surfaces shall be level. Elevation of bridge seats given are for centerline of bearings. The entire exposed top surface of abutments and piers shall be coated with Asphaltic-Asbestos Coating 3/4" thick as per Item 407 of the specifications. The application of this item shall be after all painting and incidental items are completed.
- General: Cross slope of approach slabs to conform to the cross slope of the bridge. All expansion material shall be pre-moulded cork containing no bitumen or asphalt.

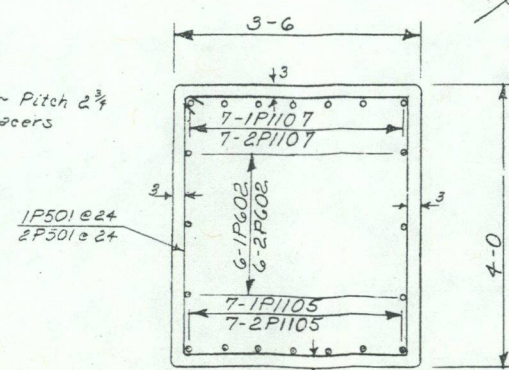
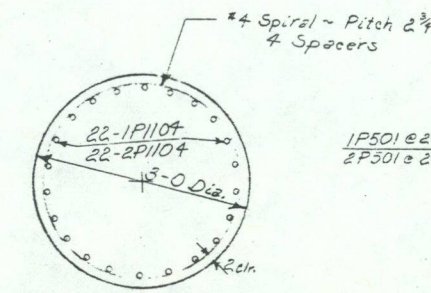
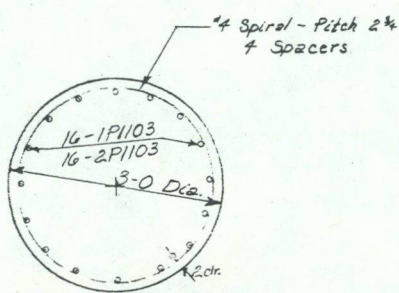
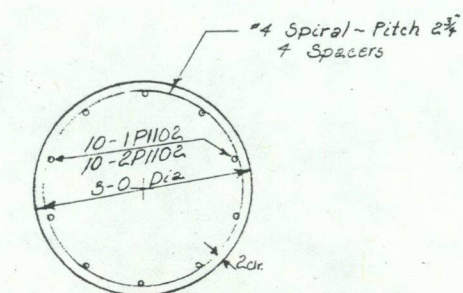




TOWN OF SPRINGFIELD
ROUTE NO. I-91 ~~100~~ STA. 2168 +
ABUTMENT 1 - NB & SB
INTERSTATE OVER US RT 75
SCALE As Noted
SURVEYED BY _____
DRAWN BY RND CHECKED BY NBT
PROJECT NO. I-91-1(19)-Cont'd 3
SHEET 53 OF 141



NOTE
Clearance for reinforcing steel to be 3' except when shown otherwise.



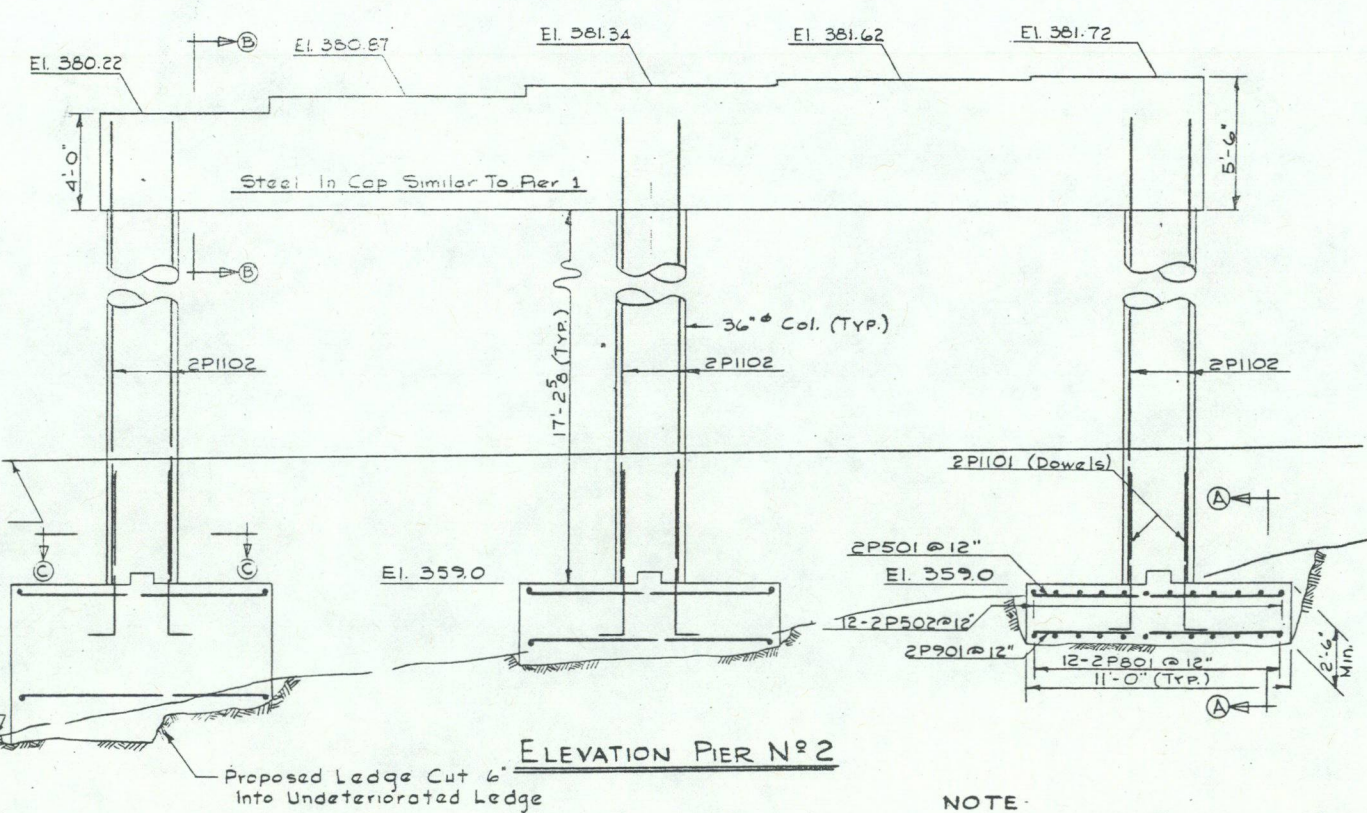
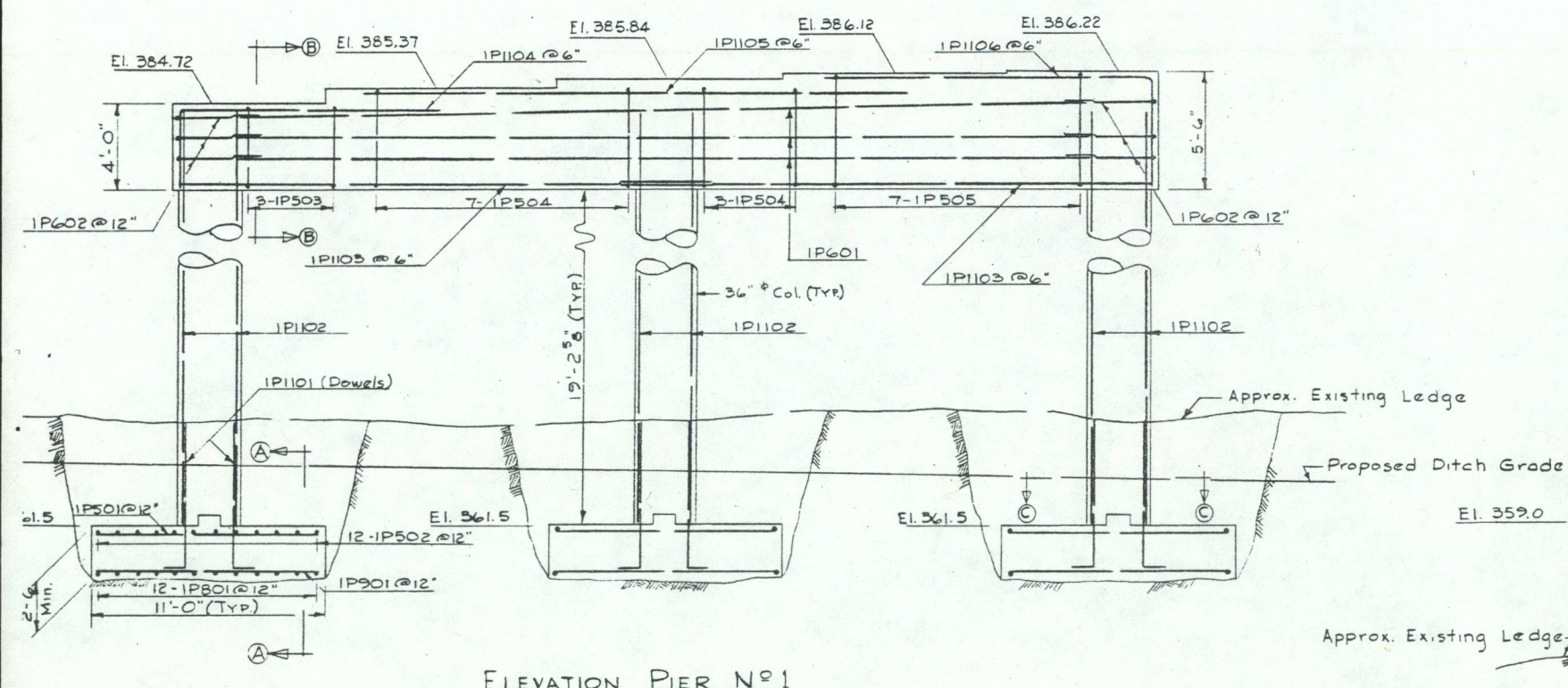
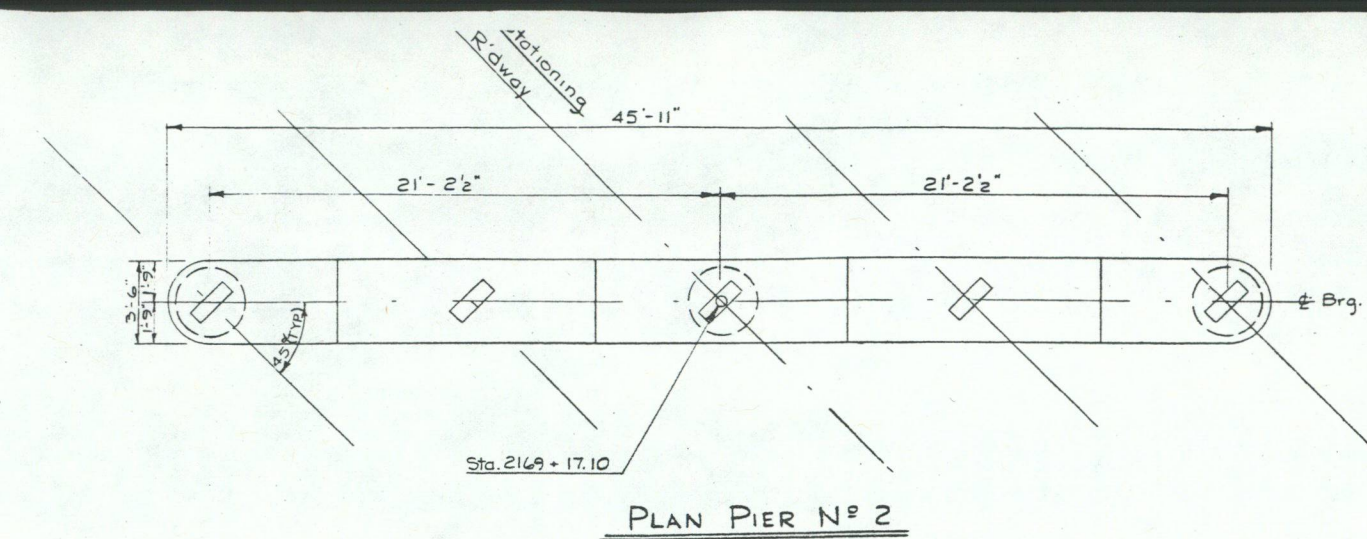
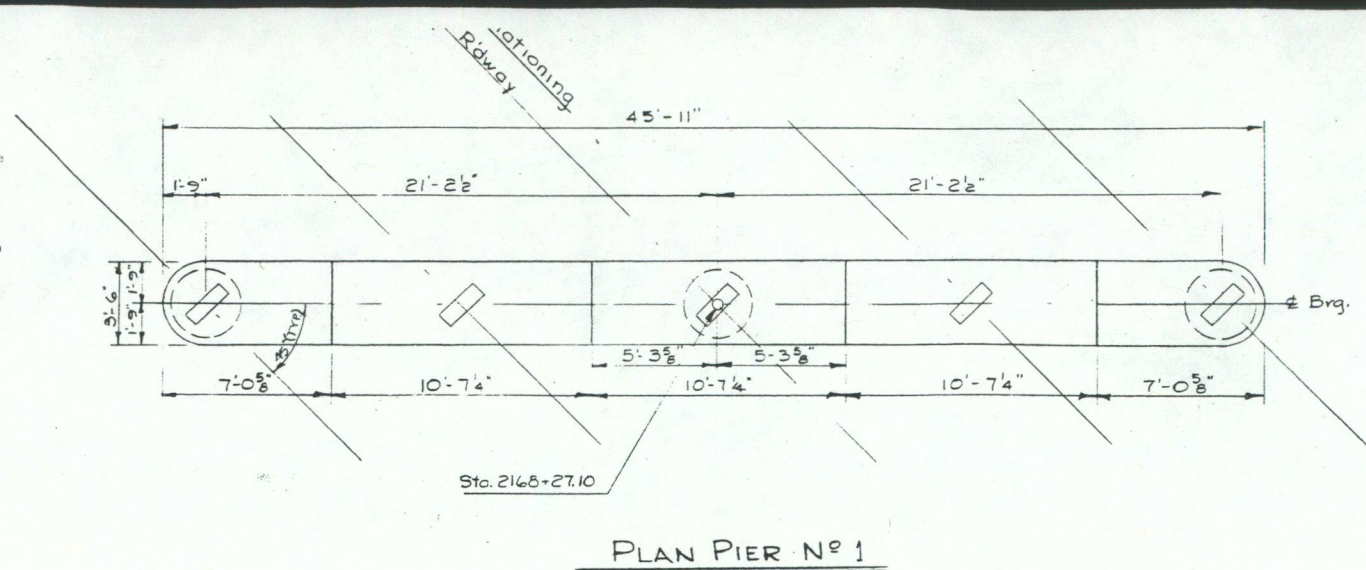
ITEM NO.	ITEM	UNIT	PIER #1 N.B.		PIER #2 N.B.	
			NET	FINAL	NET	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.	170		228	
401-A	CONC. CLASS AA (MOD.)	C.Y.	81		80	
402	REINF. STEEL	LBS.	SEE REIN. STEEL DETS.			
407	ASPHALTIC-ASB. COATING	S.Y.	17		17	
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

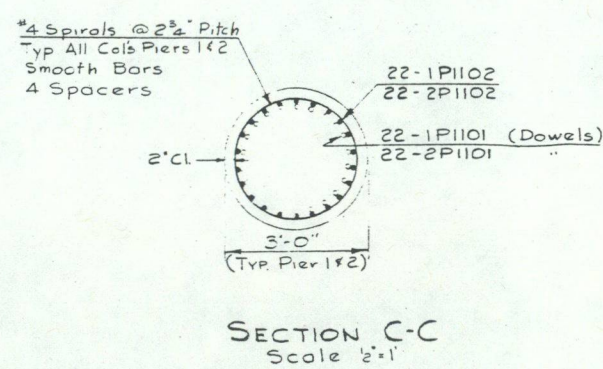
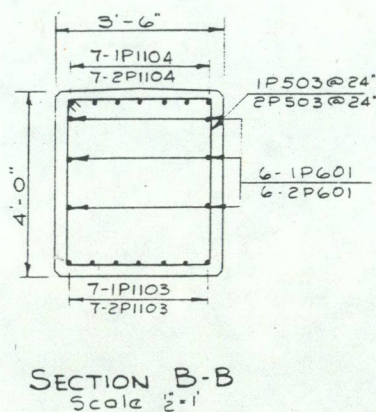
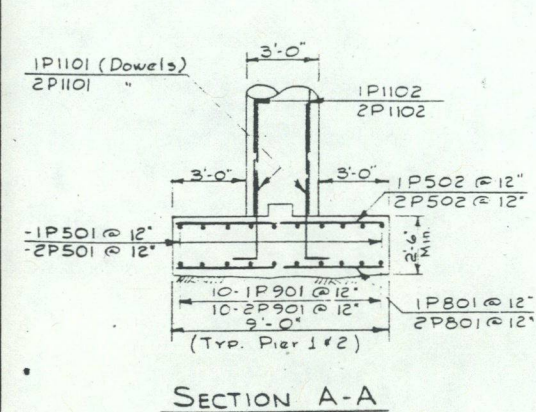
TOWN OF SPRINGFIELD
ROUTE NO. I 91 STA. 2168±
Pier 1 and Pier 2 N.B.
INTERSTATE OVER U.S. RT. #5

SCALE As Shown
SURVEYED BY _____
DRAWN BY R.P.G. CHECKED BY N.B.T.
PROJECT NO. I 91-1(19) Conts 3
SHEET 55 OF 141

BR-22



NOTE:
Clearance For Reinforcing Steel
To Be 3" Except When Shown
Otherwise



ITEM NO.	ITEM	UNIT	PIER N ^o 1 SB		PIER N ^o 2 SB	
			NET	FINAL	NET	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.	99		143	
401-AA	CONC. CLASS AA (MOD.)	C.Y.	72		85	
402	REINF. STEEL	LBS.	SEE REIN. STEEL DETS.			
407	ASPHALTIC-ASB. COATING	S.Y.	17		17	
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				

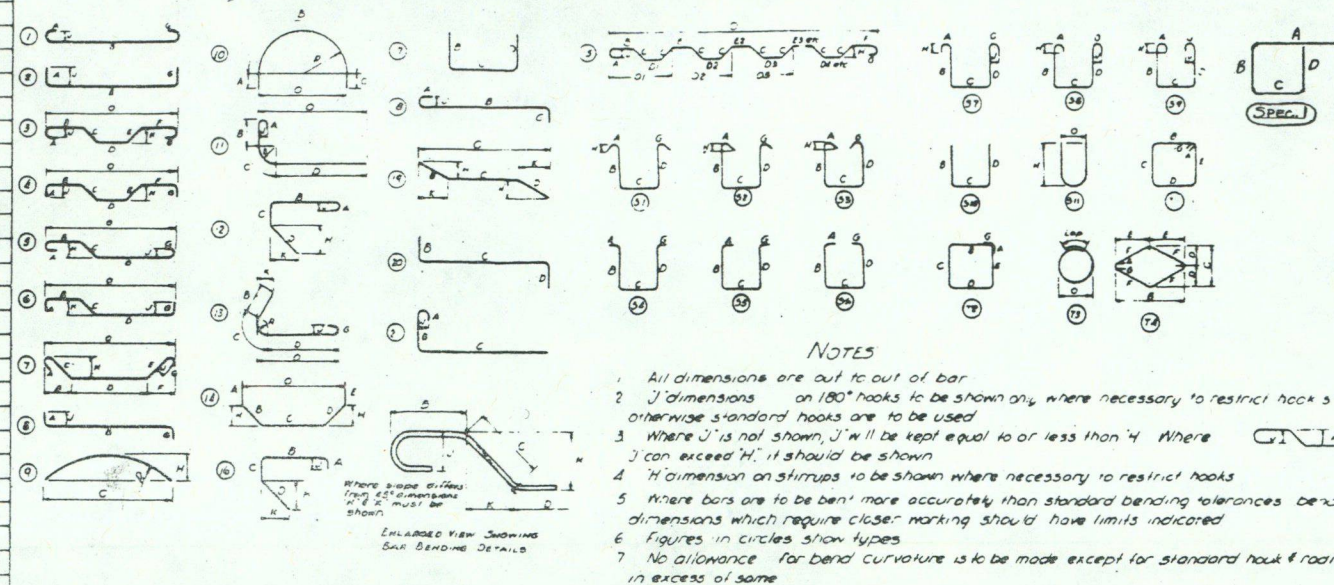
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF SPRINGFIELD
ROUTE NO. 1-91 STA. 2168+
PLAN & ELEVATION OF PIERS
1 & 2 SOUTHBOUND
SCALE 1/4" = 1' AND AS NOTED
SURVEYED BY _____
DRAWN BY NBT CHECKED BY RTB
PROJECT NO. 1-91-1(19)
SHEET 50 OF 141 CONTRACT-3

SUPERSTRUCTURE N.B.

ABUTMENT #2 N.B.

TYPICAL BAR BENDS



SUPERSTRUCTURE S.B.

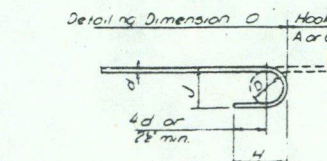
ABUTMENT #2 S.B.

(Same as Abutment #2 N.B.)

ABUTMENT #1 N.B.

APPROACH SLAB #1 N.B.

Item	No. Pieces	Size	Length	Area	Type	A	B	C	D	E	F	G	H	J	K	R	O
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
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183																	
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187																	
188																	
189																	
190																	



STANDARD HOOK DETAIL

Equivalent Size	Design Numbers
1/2"	#2
3/8"	#3
2"	#4
3/4"	#5
1"	#6
1 1/4"	#7
1 1/2"	#8
1 3/4"	#9
2"	#10
2 1/4"	#11

* DENOTES EXTRA BAR FOR TESTING PURPOSES.

8. Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation AAS.H.O. M31-48 or its latest revision. All bars shall be deformed to conform with ASTM Specifications A305-49.

MINIMUM BENDS TO BE AS FOLLOWS:

STIRRUPS AND THE BARS SHALL BE BENT AROUND A PIN HAVING A DIAMETER NOT LESS THAN TWO TIMES THE MINIMUM THICKNESS OF THE BAR. BENDS FOR OTHER BARS SHALL BE MADE AROUND A PIN HAVING A DIAMETER NOT LESS THAN SIX TIMES THE MINIMUM THICKNESS EXCEPT FOR BARS LARGER THAN 1" IN WHICH CASE THE BENDS SHALL BE MADE AROUND A PIN OF EIGHT BAR DIAMETERS.

ESTIMATED QUANTITIES

Location	Pounds
Superstructure N.B.	55,867
Superstructure S.B.	50,863
Abutment #1 N.B.	9,771
Abutment #2 N.B.	9,771
Abutment #2 S.B.	6,266
Approach Slab #1 N.B.	7,783
Approach Slab #1 S.B.	7,783
Approach Slab #2 N.B.	6,508
Approach Slab #2 S.B.	6,508

Springfield
I 71-1 (19) Contr. 3

Interstate over U.S. 5

Drawn by APG

CHK by RCB

Sheet 57 of 141

BR-24

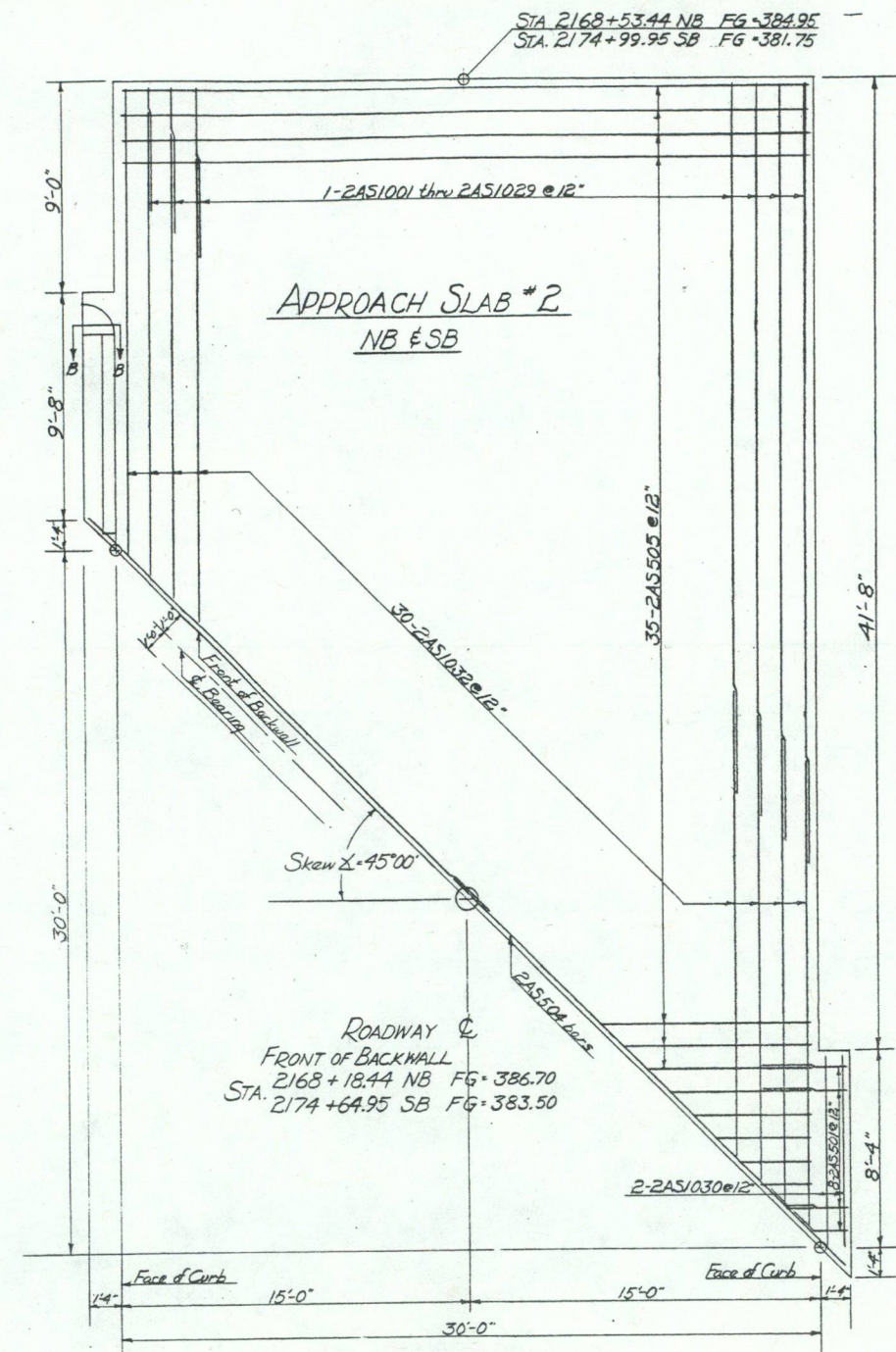
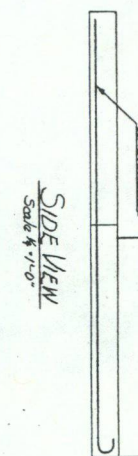
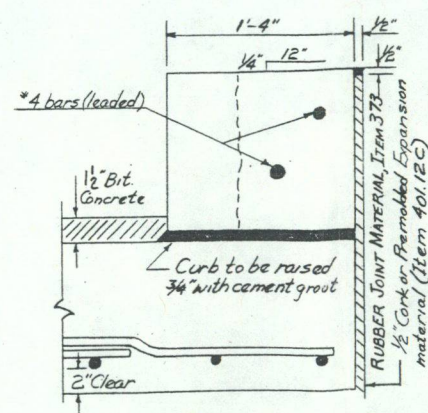
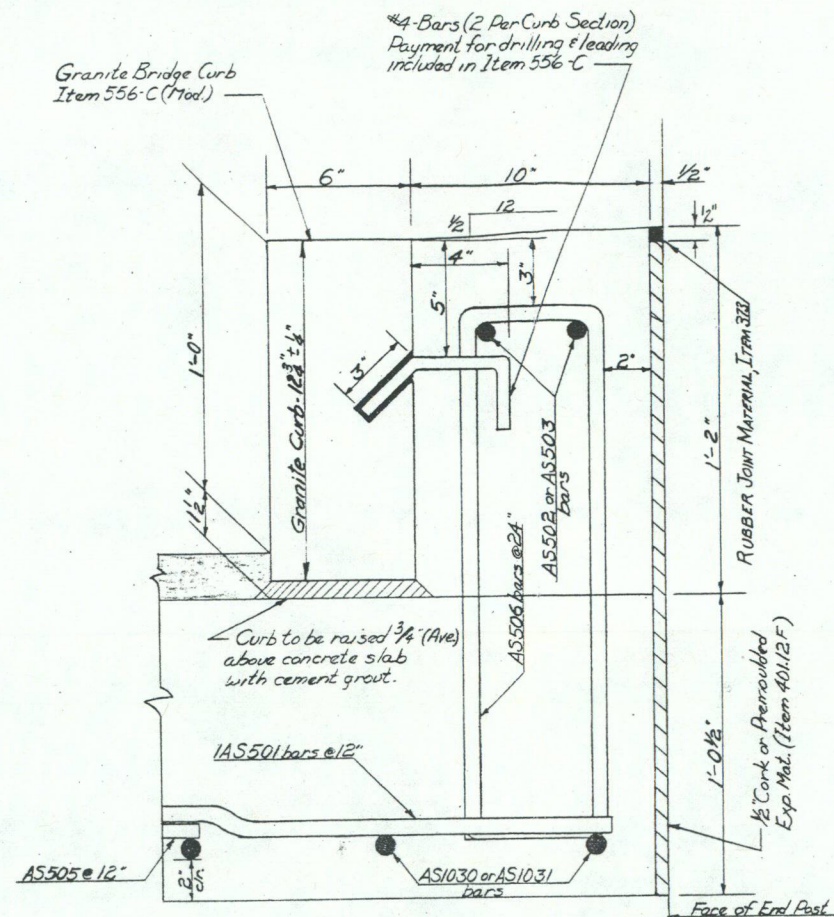
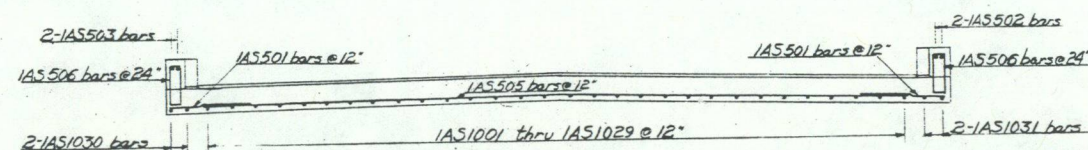
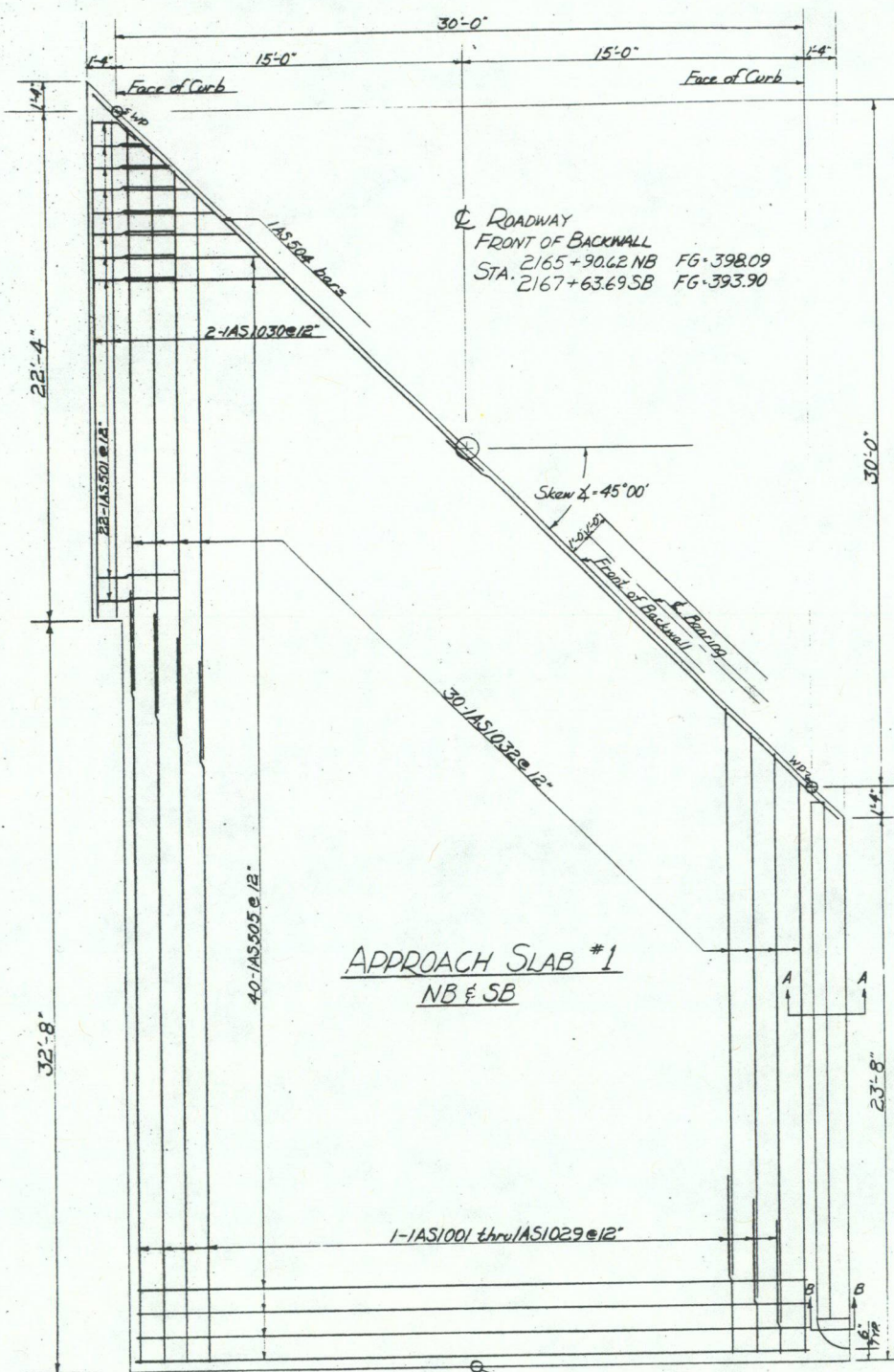
Total 167,476

APPROACH SLAB #2 S.B.

(Same as Approach Slab #2 N.B.)

ABUTMENT #1 S.B.

(Same as Abutment #1 N.B.)



ITEM NO.	ITEM	UNIT	APPROACH SLAB 1 - NB L&B		APPROACH SLAB 2 - NB R&B	
			NET	FINAL	NET	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.				
401-B	CONC. CLASS B (MOD.)	C.Y.	101		84	
402	REINF. STEEL	LBS.	15,566		13,016	
407	ASPHALTIC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.				
504	STEEL PILING	L.F.				
502-A	UNTREATED TIMBER PILING	L.F.				
361-B	BITUMINOUS CONCRETE PAVEMENT (MOD.)	TON.	23		20	
318	TAR EMULSION FOR BRIDGE FLOORS	GAL.	107		94	
556-C	GRANITE BRIDGE CURB (MOD.)	LF	90		34	
373	RUBBER JOINT MATERIAL	L.F.	104		49	

STATE OF VERMONT
DEPARTMENT OF HIGHWAYSTOWN OF SPRINGFIELD-----

ROUTE NO. I-91  STA. 2168 ⁺

APPROACH SLABS 1 & 2 - NB & SB

Interstate Over U.S. Route #5-----

SCALE As NOTED-----

SURVEYED BY _____

DRAWN BY RND CHECKED BY J.A.B. 1/62

PROJECT NO. I-91-1(19) Contr 3.

BR-19 SHEET 60 OF 141