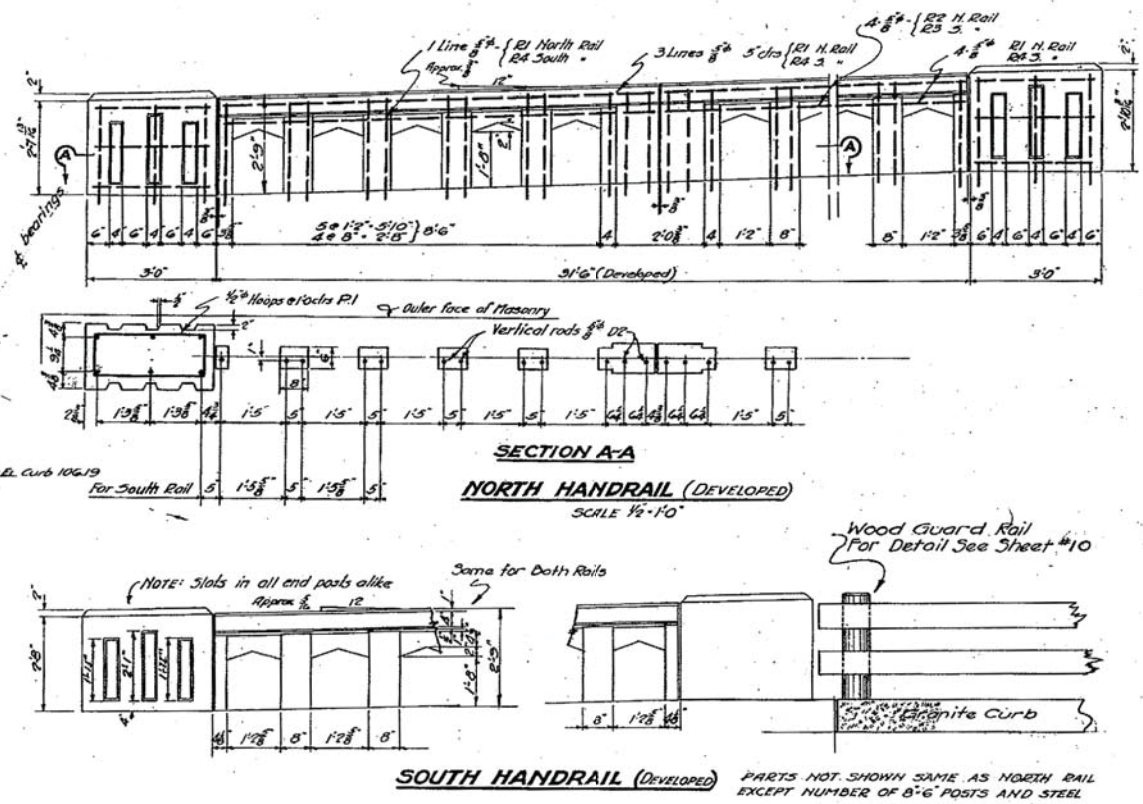


TYPICAL SECTION THROUGH CURB AND HANDRAIL
(NORMAL TO RAIL)
SCALE 1/2" = 1'-0"

PLAN OF SUPERSTRUCTURE
SCALE 1/4" = 1'-0"



SECTION A-A
NORTH HANDRAIL (DEVELOPED)
SCALE 1/2" = 1'-0"

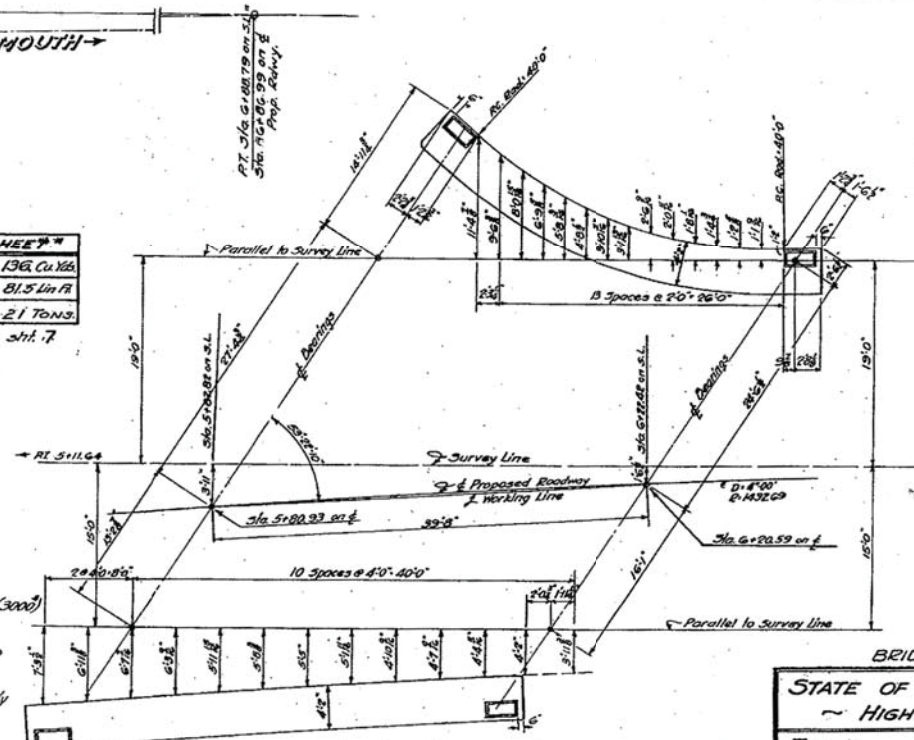
SOUTH HANDRAIL (DEVELOPED)
PARTS NOT SHOWN SAME AS NORTH RAIL EXCEPT NUMBER OF 6" POSTS AND STEEL

ITEM	QUANTITIES ON THIS SHEET	136 Cu Yds	81.5 Lin Ft	21 TONS
3-A	CONCRETE CLASS "A" 3000'	136 Cu Yds		
3-B	CONCRETE BRIDGE RAIL		81.5 Lin Ft	
3-B	P.R.C.-MIX ASPH. BR. FLOOR			21 TONS

* For reinforcing steel see sheet 7.

NOTES

Design loading - H20
Specifications AASHTO 1931 and State of New Hampshire Specs. 1935
See Sheet No. 10 for details of blast plates
Blast plates to be centered over $\frac{1}{2}$ of tracks.
Elevations shown on this sheet are to top of 3" slab unless otherwise noted.
No concrete to be poured until steel has been checked by the engineer.
All concrete in superstructure to be Class A (3000') with minimum cement factor 1.60
All concrete in abutments and wings to be Class C (2000') with minimum cement factor 1.50
All exposed edges of concrete to be cast square and leather edge to be removed with carborundum brick after concrete has thoroughly set.
Stones in existing abutments and wing walls to be removed, relayed and pointed as directed by the engineer.
Contractor shall submit plans of forms and falsework for approval before construction.
Camber $\frac{3}{4}$ " at $\frac{1}{2}$ of span.



KEY DIAGRAM
SCALE 1/4" = 1'-0"

BRIDGE NO. 3.6 V

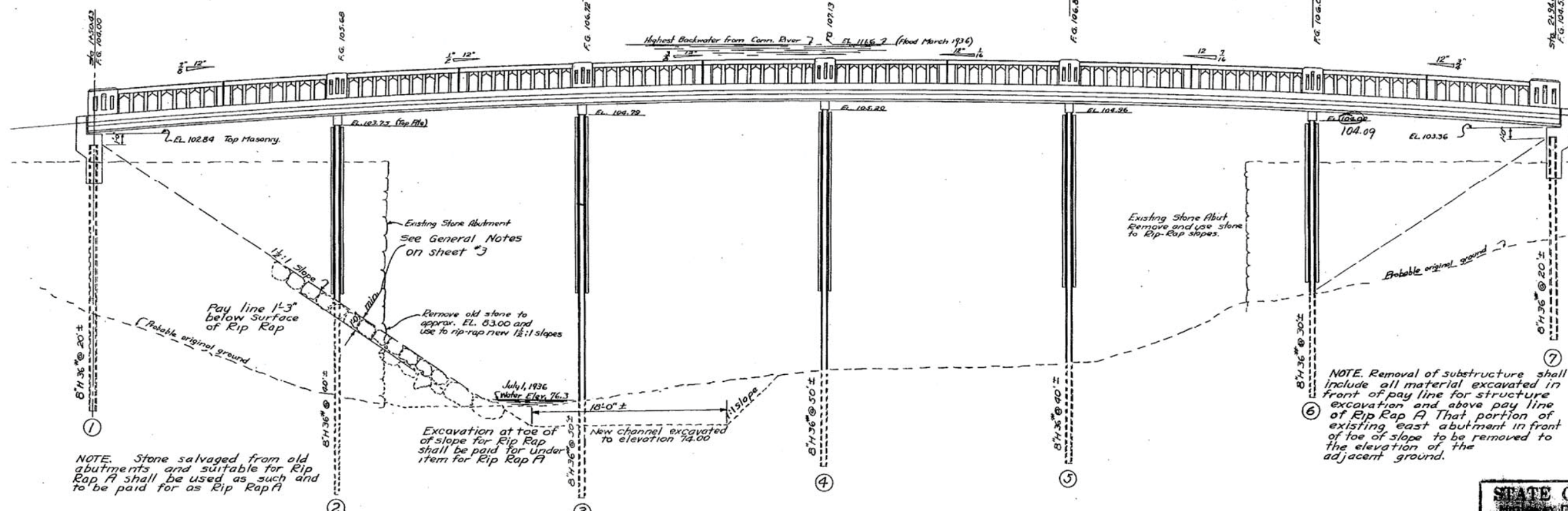
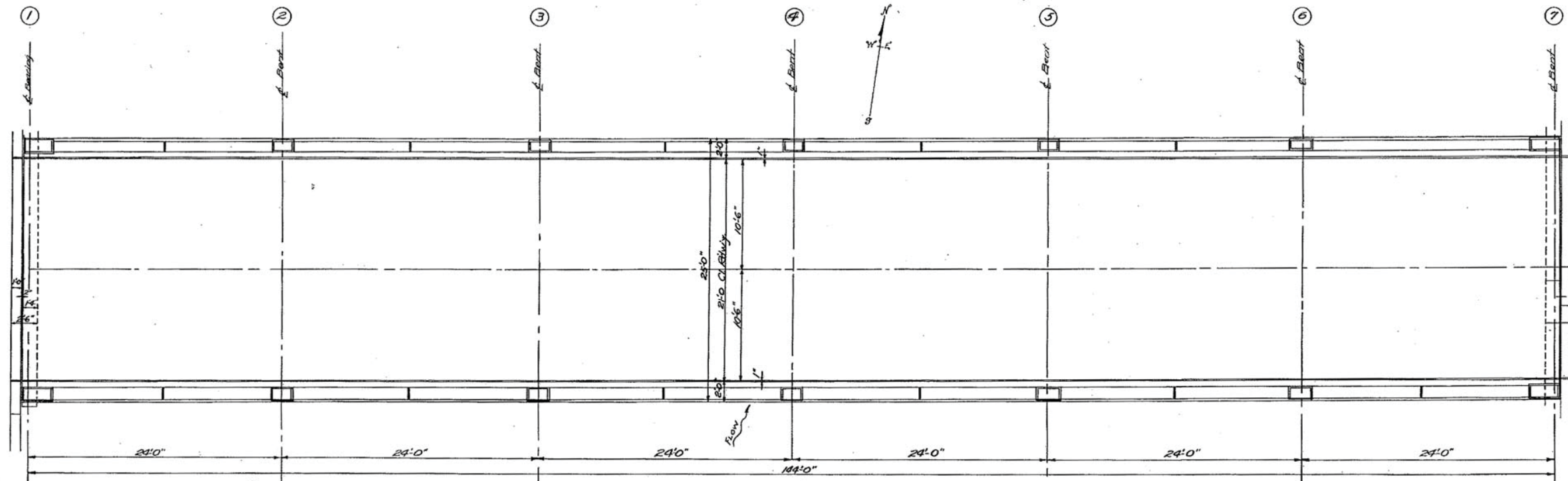
STATE OF NEW HAMPSHIRE
HIGHWAY DEPARTMENT

TOWN: NORTH HAMPTON
PROJECT: N. R. H. 37-D 1935
LOCATION: DRAKES OVERPASS
ROAD: LAFAYETTE HIGHWAY

DESIGNED BY: R.J.P. DATE: July 25, 1935
DRAWN BY: R.J.P. " " " "
TRACED BY: R.J.P. " May 8, 1935
CHECKED BY: R.S.B. " April 11, 1935

SHEET 6 OF 11 SHEETS

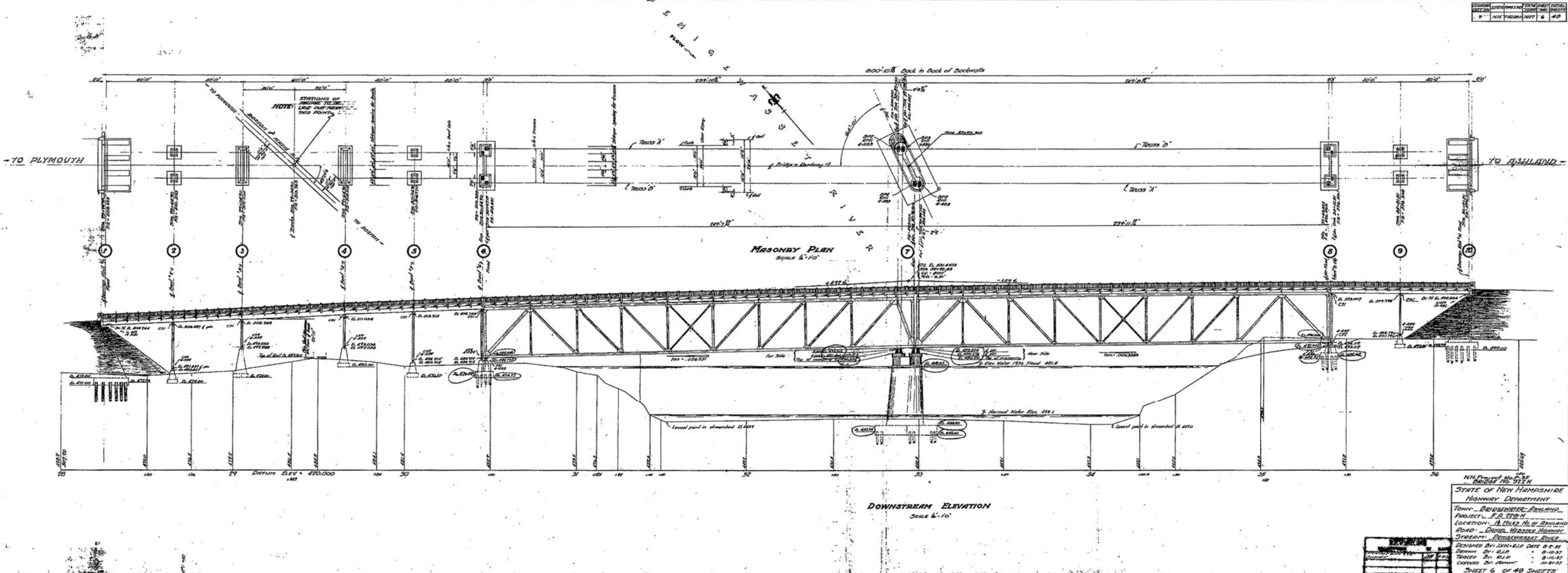
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	N. H.				



STATE OF NEW HAMPSHIRE
HIGHWAY DEPARTMENT - BRIDGE DIVISION

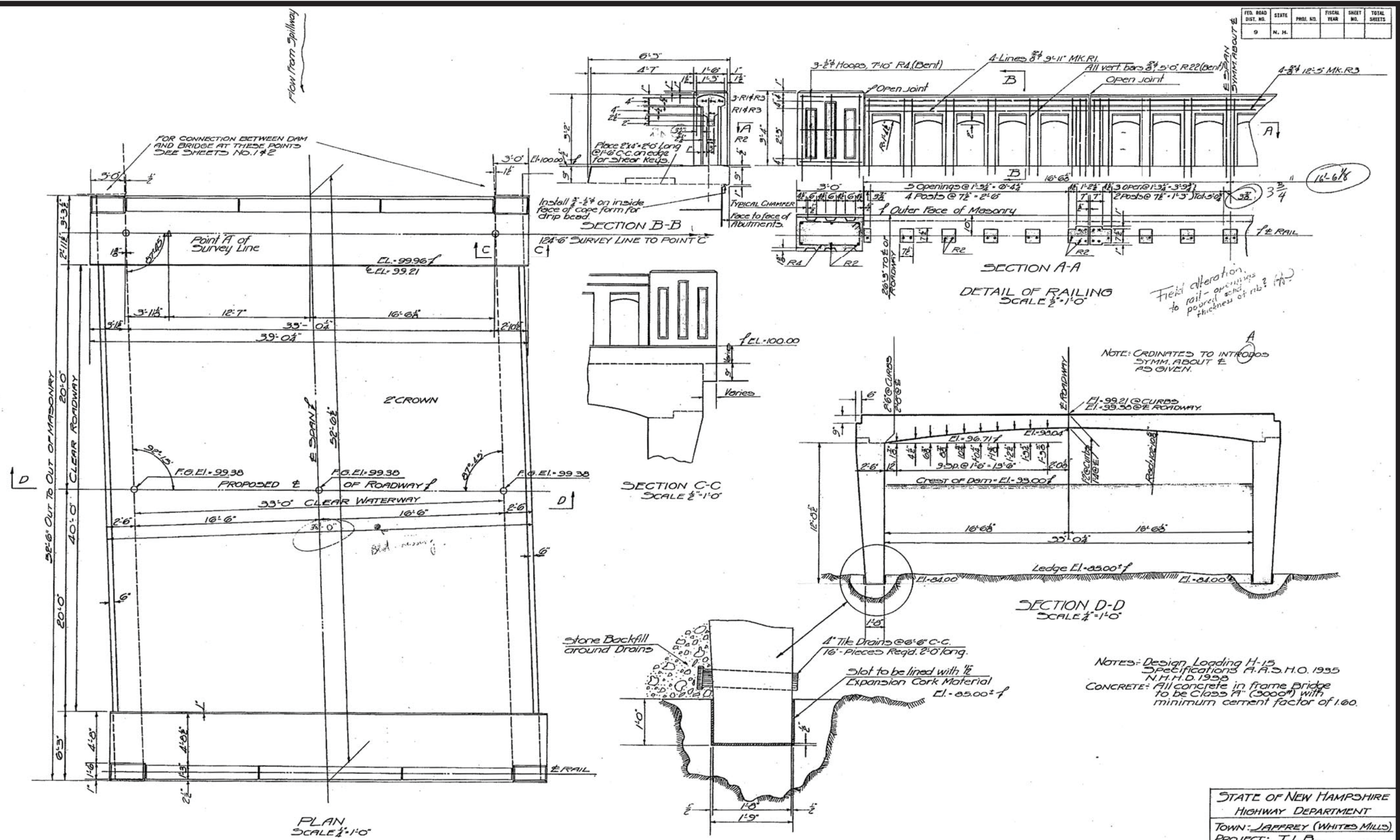
TO: WESTMORELAND
ON: FARRIDGE BROOK
NEAR COUNTY FARM
COUNTY FARM BRIDGE NO.

DATE: 10-30-35
DRAWN BY: E.V.P.
1-17-35



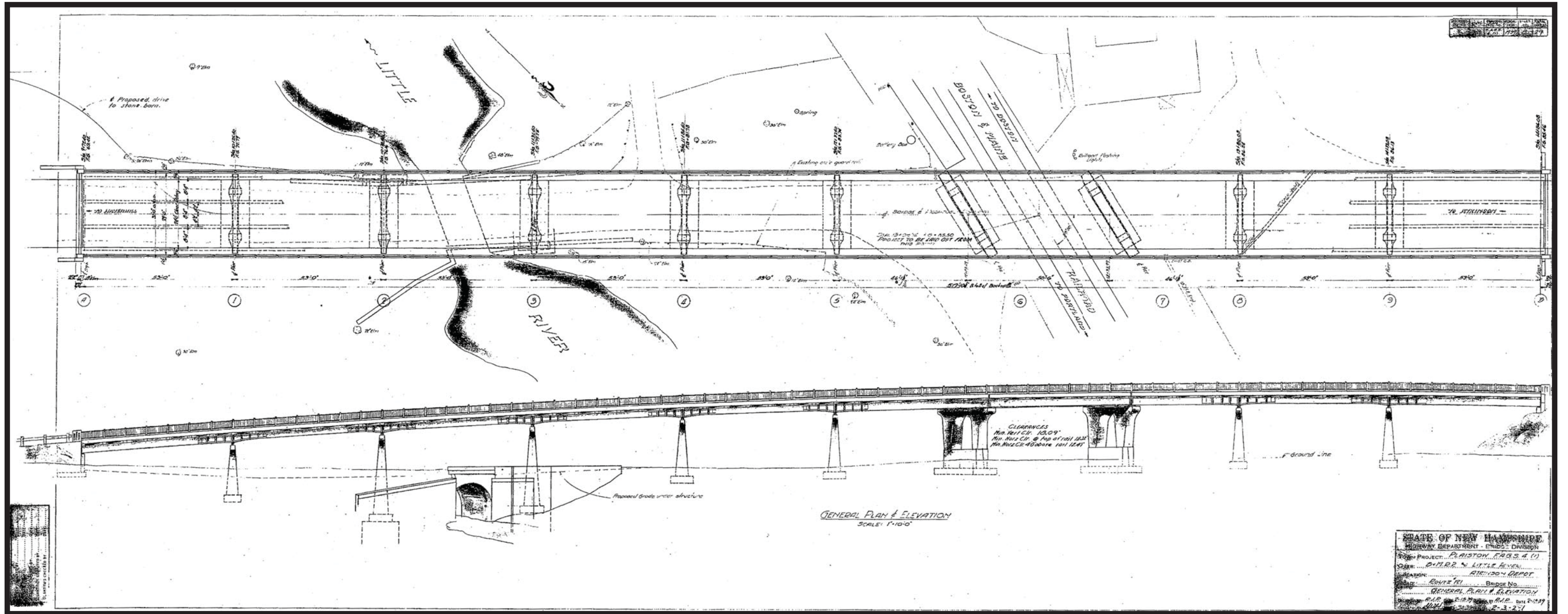
NH Project No. 973 H
 BRIDGE NO. 973 H
 STATE OF NEW HAMPSHIRE
 HIGHWAY DEPARTMENT
 TOWN - BRIDGEMAN, BERKSHIRE
 PROJECT - F.A. 322 H
 LOCATION - A BRIDGE ON STANFORD
 ROAD - DANIEL WHEELER HIGHWAY
 STREAM - DENNISVILLE RIVER
 DESIGNED BY J.W. RJA DATE 8-7-37
 DRAWN BY ALP DATE 8-10-37
 CHECKED BY ALP DATE 8-10-37
 SHEET 6 OF 49 SHEETS

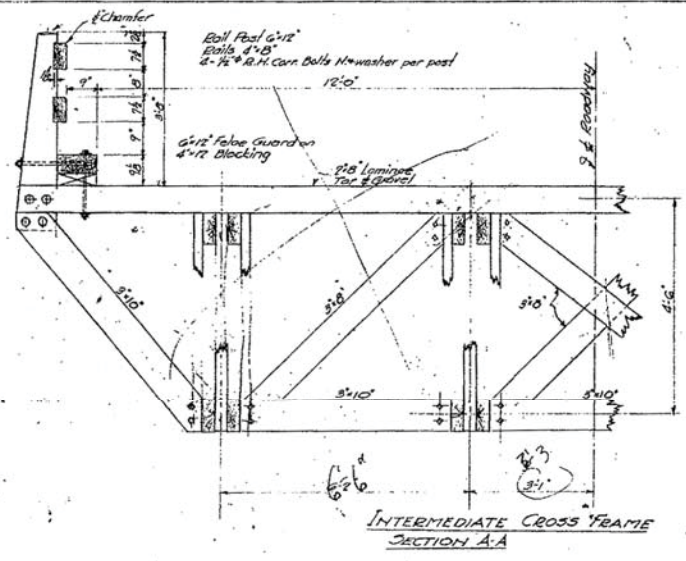
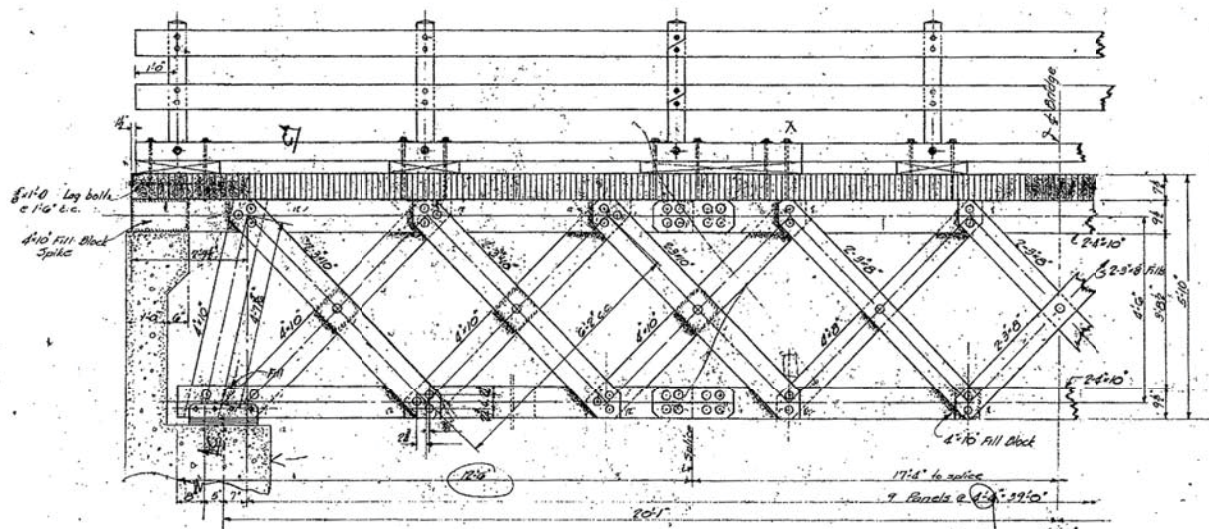
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	N. H.				



ESTIMATE OF QUANTITIES		
REINFORCING STEEL (BRIDGE & DAM)	30,300	LBS
CONCRETE BRIDGE RAIL	78	LIN. FT.
" CLASS A	273	CU. YDS.
LEDGE EXCAVATION	17	CU. YDS.
STRUCTURE EXCAVATION	800	CU. YDS.

STATE OF NEW HAMPSHIRE
HIGHWAY DEPARTMENT
TOWN: JAFFREY (WHITES MILLS)
PROJECT: T.L.B.
LOCATION: IN VILLAGE
ROAD: U.S. ROUTE No. 202
STREAM: CONTOCOOK RIVER
DESIGNED BY: R.J.P. DATE: 11-22-38
DRAWN: "R.J.P." "11-28-38"
TRACED: "H.J.A." "12-15-38"
CHECKED: "R.R.K." "11-30-38"
SHEET 3 OF 4 SHEETS



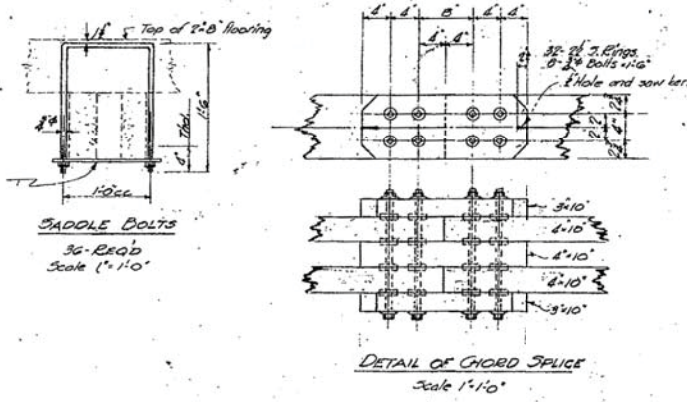
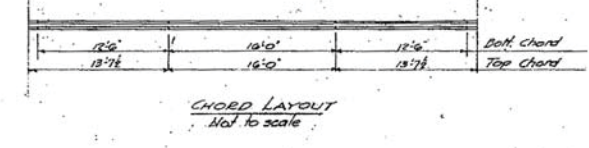
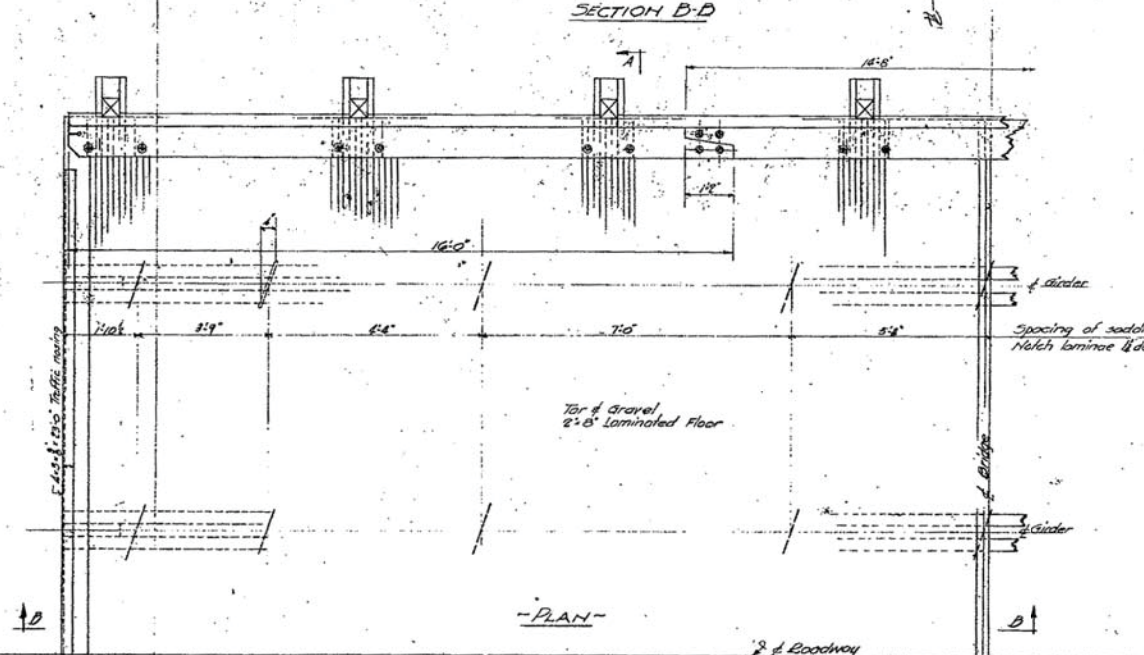


BILL OF LUMBER

No. Pcs	Size	Length	Plam	Location & Remarks
308	2x8	20'-0"	10,340	Floor (Use 4x10 152x10 1/2)
16	2x8	28'-0"	577	• 8 Posts (32x14)
2	8x8	20'-0"	277	• 2 ends (4x14 + splice)
8	4x8	14'-0"	299	End rails
4	4x8	20'-0"	219	Center
4	6x12	16'-0"	384	Foibe Guard
2	6x12	16'-0"	192	"
2	4x12	18'-0"	144	" blocking (2x12) (18'-0) (10 5/8)
8	6x12	10'-0"	480	Rail posts
32	4x10	18'-0"	1873	Chords (ends)
16	4x10	16'-0"	853	" (center)
8	4x10	10'-0"	133	Web (ends)
25	3x10	16'-0"	1000	" (outside) Use 1 for splice, fill etc.
12	4x10	16'-0"	640	" (inside)
4	4x8	16'-0"	171	" (center)
16	3x8	16'-0"	512	" (outside)
8	4x10	10'-0"	267	" 1/2 chd blocking + splices, fill
8	3x10	16'-0"	320	Int. X-Frame w/ other 8 Posts
2	3x10	18'-0"	90	" strut
4	3x8	16'-0"	128	" diag.
4	2x8	14'-0"	75	End X-Frame
2	2x8	16'-0"	48	"
4	2x8	18'-0"	96	Boil Lateral (diag)
4	2x8	18'-0"	64	"
3	2x8	14'-0"	56	" strut

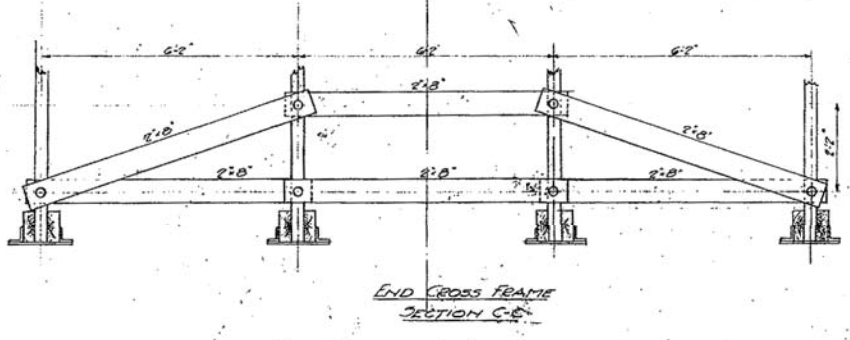
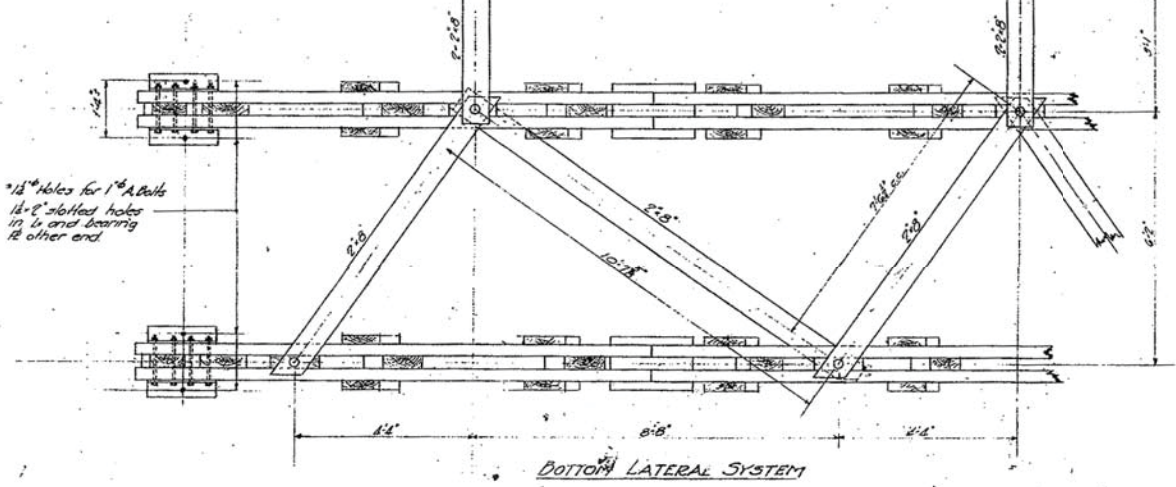
19,067

40'-6"
36'-0"
31'-6"
39'-2"
34'-8"
30'-0"



No.	Size	Description	Length	Weight	Location
1528	2 1/2"	Split Rings		480	
476	1 1/2" x 0.05	Washers		180	
48	3/4"	Match Bolts	11'	93	Shoes
328	3/4"	"	116	832	Shy. cut + web
20	3/4"	"	140	60	"
6	3/4"	"	14	14	Boil Lateral
4	3/4"	"	13	9	"
4	3/4"	"	14	8	"
32	3/4"	"	10	58	Rail Post (Boil)
32	3/4"	"	10	50	"
16	3/4"	"	140	45	F. Guard to post
48	3/4"	"	146	121	floor
32	3/4"	"	4	27	Int. X-Frame
16	3/4"	"	6	17	"
12	3/4"	"	192	25	End X-Frame
36	3/4"	U. Bolts	40'	373	See detail (int. incl. #)
20	3/4"	Lap Bolts	140	20	"
32	3/4"	Conn. Bolts	140	25	Bottom or mushroom Head, cut + splice
32	3/4"	"	10	20	"
16	5/8"	L	148	570	Shoes
16	10x4"	Pl	148	1226	"
4	4x4"	Pl	6	16	"
16	1"	A. Bolts	140	57	2 H. Holes on
26	1/2x4x8	Clip Is	92	250	Bracing conn. bolt chd
10	3/4"	Match Bolts	14	32	Boil chd + ctr. posts
20	20d	Wire Spikes	4'	200	

4618'



NOTE: Scale 1/2" = 1'-0" unless noted

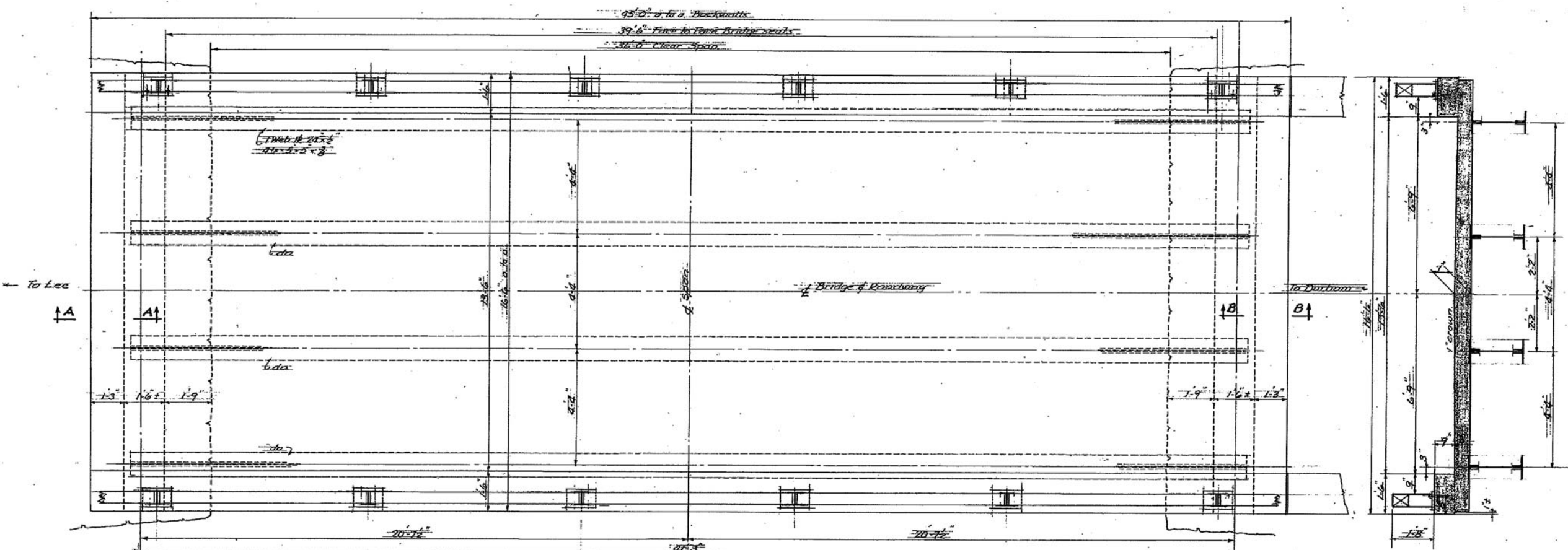
NOTES:
Specifications N.H.M.D 1941
H-15 Loading
Nail Laminae 1 1/2" alternate up and down

Super Est. Lumber 20 112.74 @ 100' = 2100
Hardware 4678 @ 15 = 69,975
40' 63.34

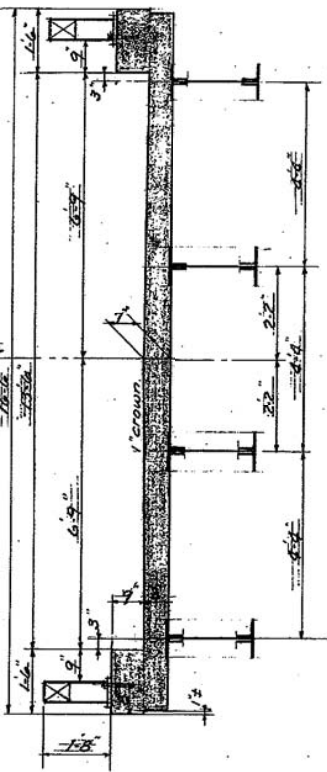
STATE OF NEW HAMPSHIRE
HIGHWAY DEPARTMENT - BRIDGE DIVISION

TOWN PROJECT: _____
OVER: _____
LOCATION: _____
ROAD: _____ BRIDGE NO. _____
DESIGNED BY: R.H.R. DATE: 1-7-22. DRAWN BY: R.H.R. DATE: 4-9-22.
CHECKED BY: _____ DATE: _____ FILE NO. _____

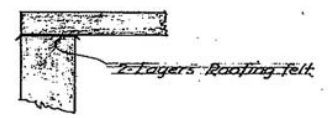
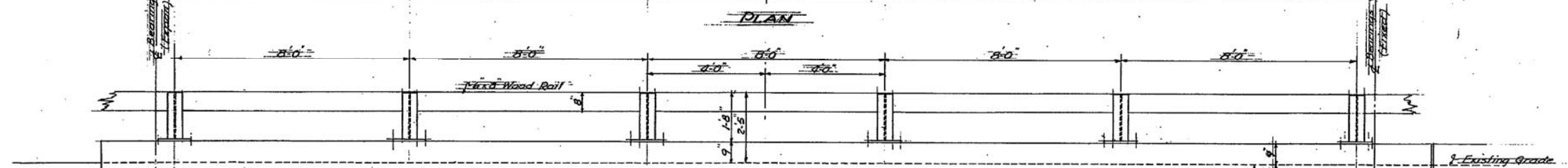
FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.				



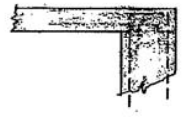
TYPICAL CROSS SECTION



PLAN

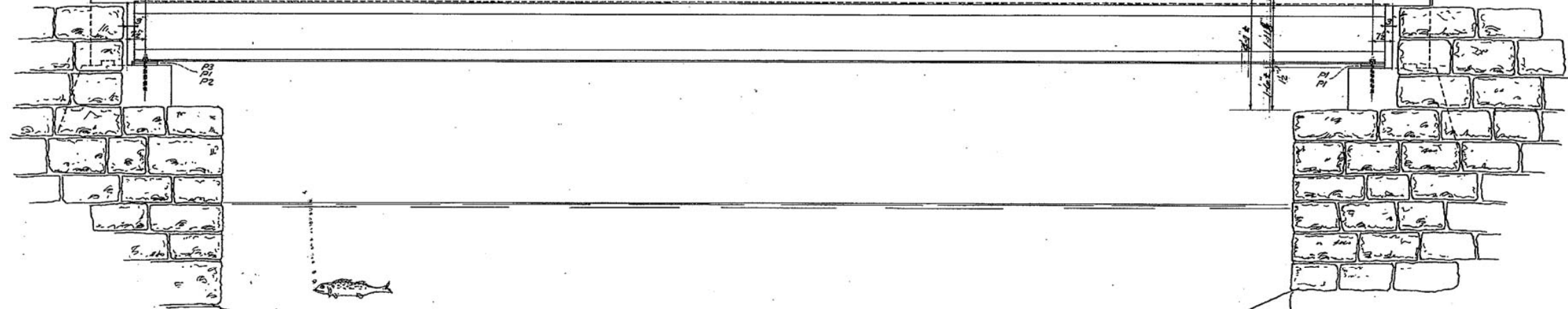


SECTION A-A



SECTION B-B

H-119



DOWNSTREAM ELEVATION

Sheet Scale 1/2" = 1'-0"

REVISIONS	DESCRIPTION	BY	DATE

STATE OF NEW HAMPSHIRE
HIGHWAY DEPARTMENT BRIDGE DIVISION

TOWN DURHAM BRIDGE NO. 070/072

FEDERAL PROJECT _____ STATE PROJECT _____

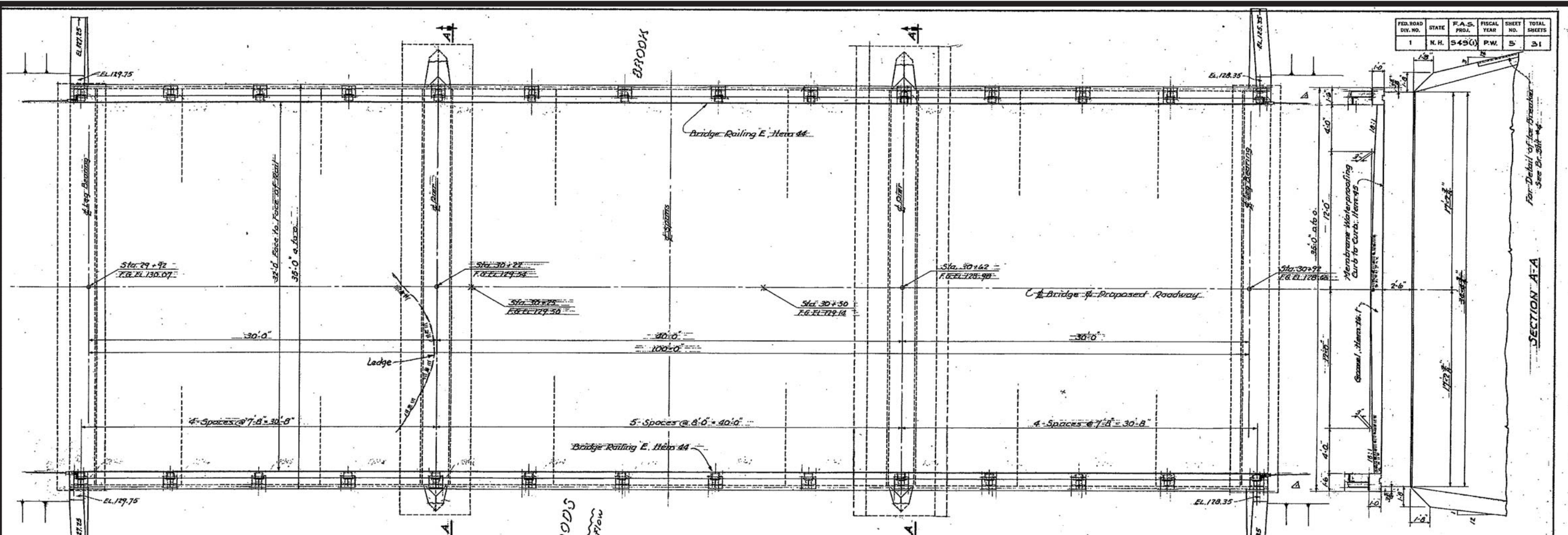
ROUTE NO. _____ OVER LAMOREY RIVER

LOCATION .65 MI EAST OF DURHAM - LEE T.L.

SUPERSTRUCTURE - PLAN, SECT. ELEV

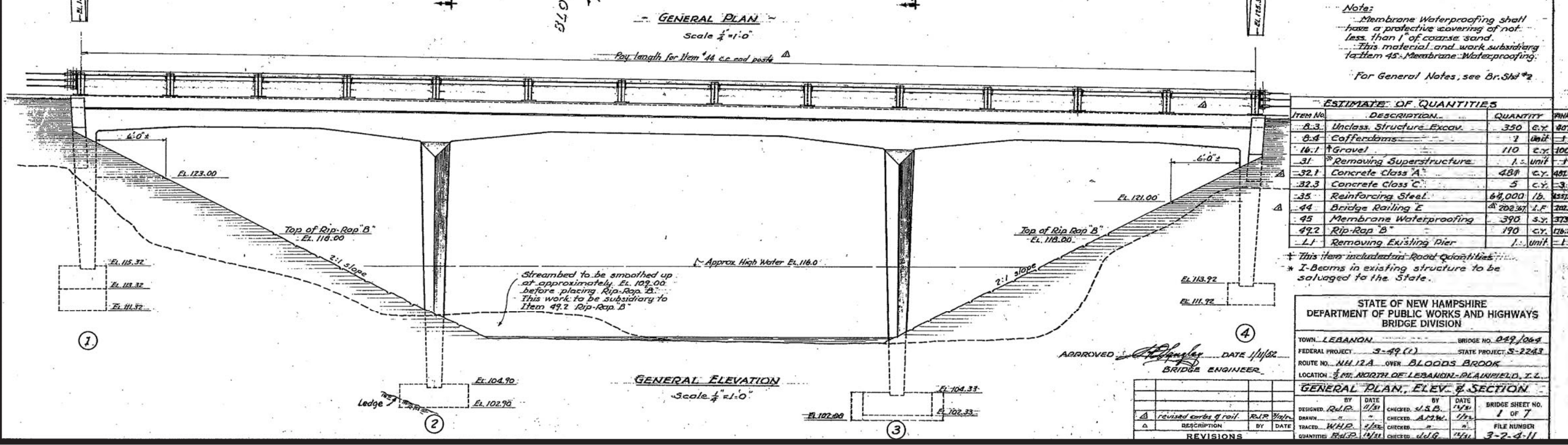
DESIGNED <u>R.V.D.</u>	DATE <u>4/31</u>	CHECKED <u>M.J.G.</u>	DATE <u>5/11</u>	BRIDGE SHEET NO. <u>1 OF 2</u>
DRAWN <u>h</u>	CHECKED <u>h</u>	CHECKED <u>h</u>	CHECKED <u>h</u>	FILE NUMBER <u>3-2-3-6</u>
TRACED <u>W.B.D.</u>	CHECKED <u>W.B.D.</u>	CHECKED <u>W.B.D.</u>	CHECKED <u>W.B.D.</u>	
QUANTITIES	CHECKED	CHECKED	CHECKED	

FED. ROAD DIV. NO.	STATE	F.A.S. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	5450	P.W.	5	31



GENERAL PLAN
Scale 1/4" = 1'-0"

Notes:
 Membrane Waterproofing shall have a protective covering of not less than 1" of coarse sand.
 This material and work subsidiary to Item 45: Membrane Waterproofing.
 For General Notes, see Br. Std #2



GENERAL ELEVATION
Scale 1/4" = 1'-0"

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	PRICE
8.3	Unclass. Structure Excav.	350	C.Y.	807
8.4	Cofferdams	7	Unit	1
16.1	Gravel	110	C.Y.	100
31	Removing Superstructure	1	Unit	1
32.1	Concrete Class A	484	C.Y.	481
32.3	Concrete Class C	5	C.Y.	31
35	Reinforcing Steel	64,000	Lb.	457
44	Bridge Railing E	202.37	L.F.	202
45	Membrane Waterproofing	390	S.Y.	373
49.2	Rip-Rap B	190	C.Y.	176
L1	Removing Existing Pier	1	Unit	1

* This item included in Road Quantities.
 * I-Beams in existing structure to be salvaged to the State.

STATE OF NEW HAMPSHIRE
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 BRIDGE DIVISION

TOWN: LEBANON BRIDGE NO. 049/064
 FEDERAL PROJECT: 3-49(1) STATE PROJECT: S-2243
 ROUTE NO.: NH 12A OVER BLOODS BROOK
 LOCATION: 1/2 MI. NORTH OF LEBANON-PLAINFIELD, T.L.

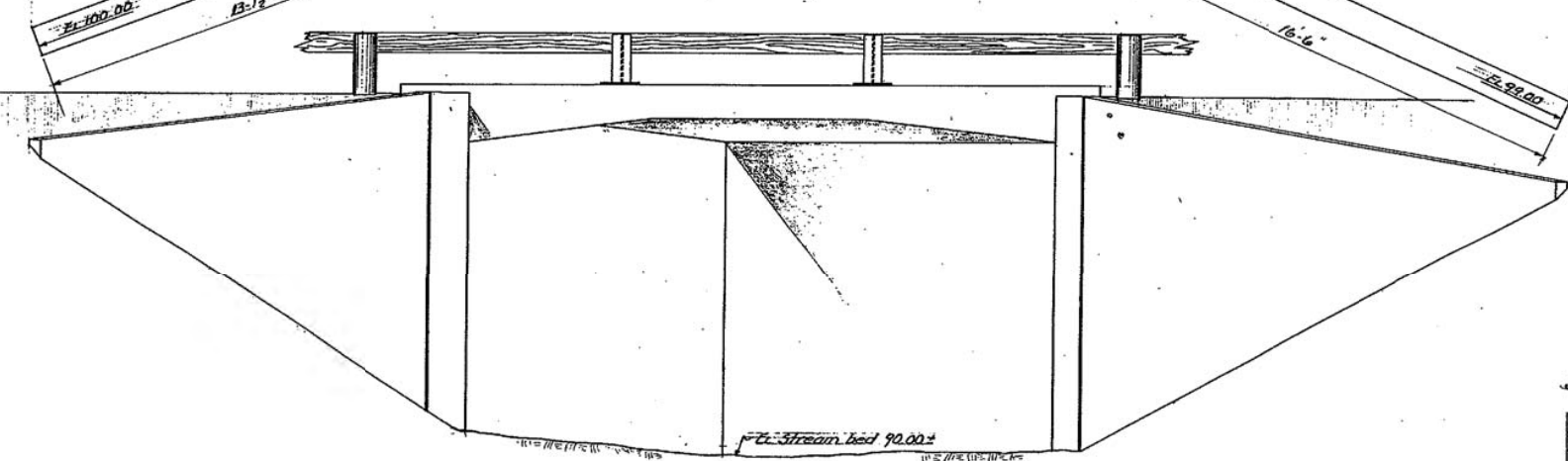
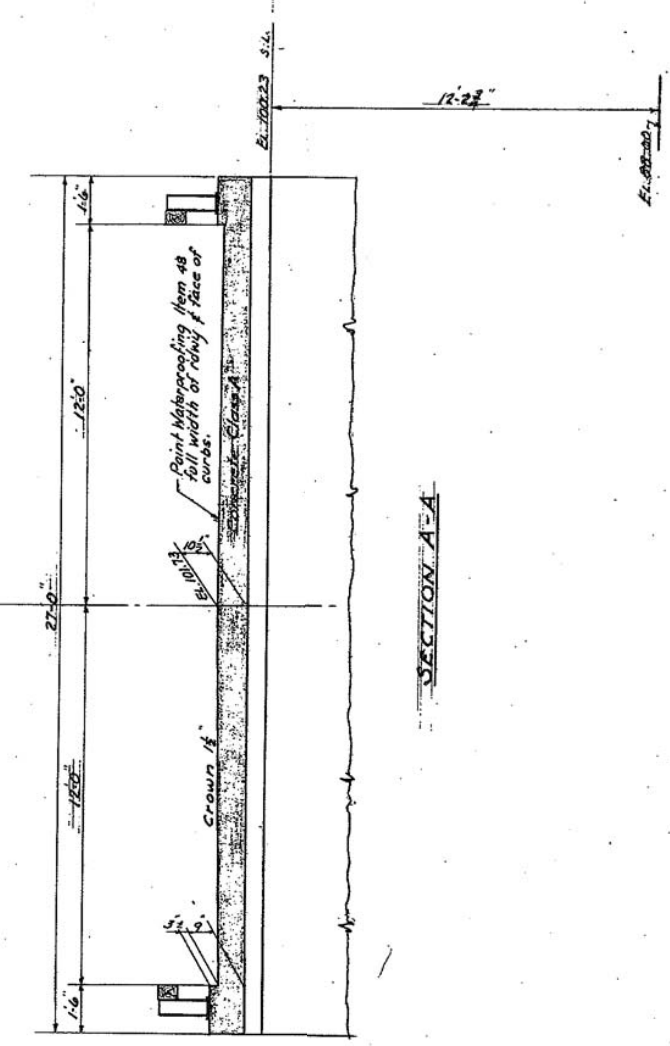
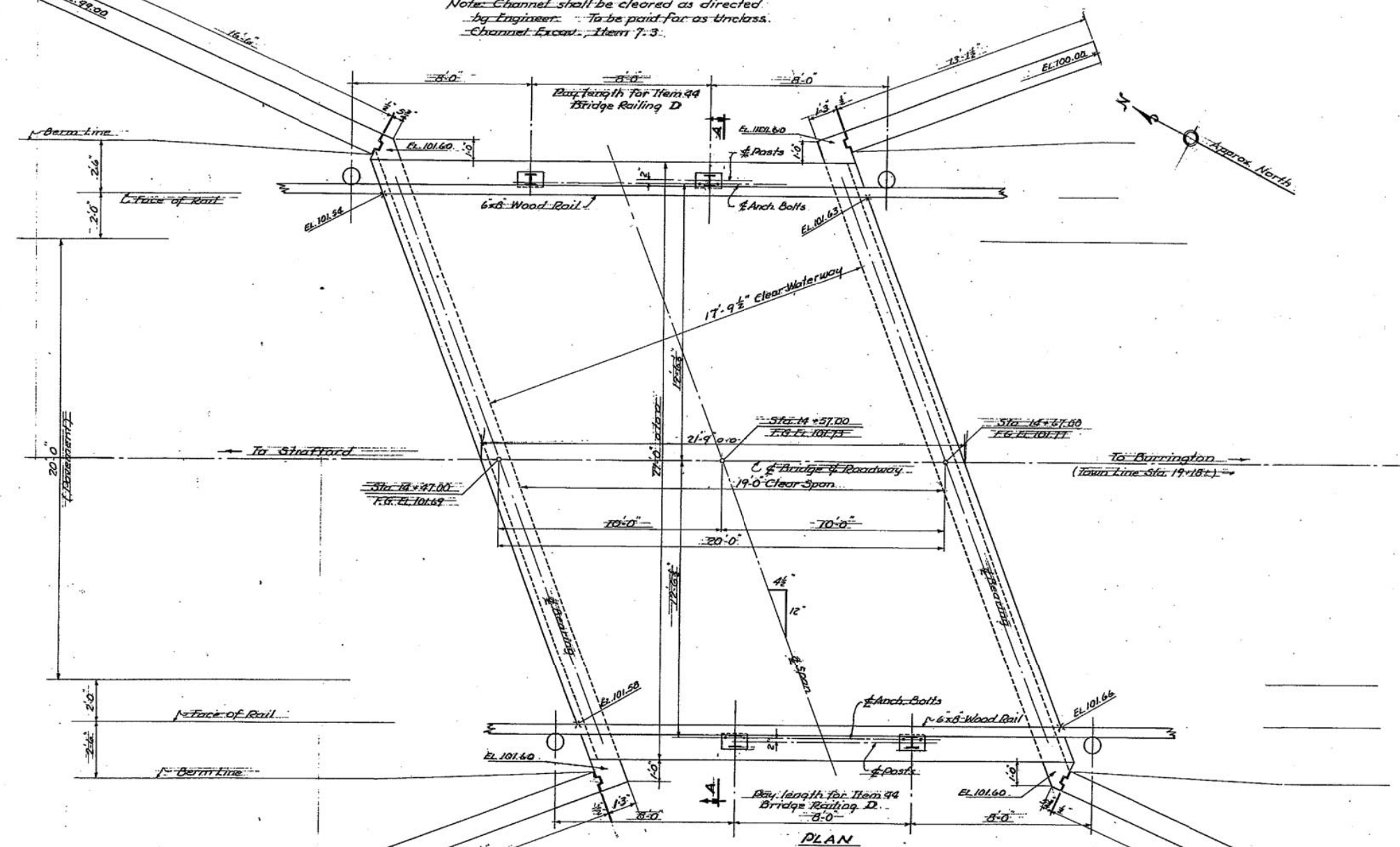
GENERAL PLAN, ELEV. & SECTION

DESIGNED: <u>R.L.P.</u>	DATE: <u>11/51</u>	CHECKED: <u>S.S.B.</u>	DATE: <u>1/52</u>	BRIDGE SHEET NO. <u>1 OF 7</u>
DRAWN: <u>W.H.P.</u>	DATE: <u>1/52</u>	CHECKED: <u>A.M.W.</u>	DATE: <u>1/52</u>	FILE NUMBER
TRACED: <u>W.H.P.</u>	DATE: <u>1/52</u>	CHECKED: <u>W.H.P.</u>	DATE: <u>1/52</u>	
QUANTITIES: <u>R.L.P.</u>	DATE: <u>11/51</u>	CHECKED: <u>J.J.G.</u>	DATE: <u>1/52</u>	<u>3-2-4-11</u>

APPROVED: [Signature] DATE: 1/1/52
 BRIDGE ENGINEER

FED. ROAD DIV. NO.	STATE	F.A.S. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	281(2)		4	23

Note: Channel shall be cleared as directed by Engineer. To be paid for as trench. Channel Excav. Item 7.3.



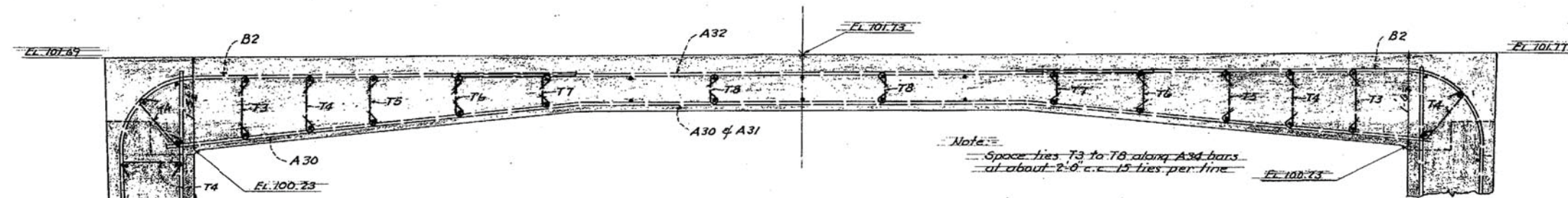
GENERAL NOTES
 Design Loading: H-15-44
 Specifications: A.A.S.H.O. 1949 & N.H.D. 1948
 Concrete shall be Class A (air entrained).
 All main reinforcing steel shall be 2" clear from concrete surfaces except as noted.
 For surface finish of concrete, see Special Provisions.
 For further information see sheets titled Addenda to Specifications, attached to Proposal.

APPROVED: *[Signature]* DATE 6/17/52
 BRIDGE ENGINEER.

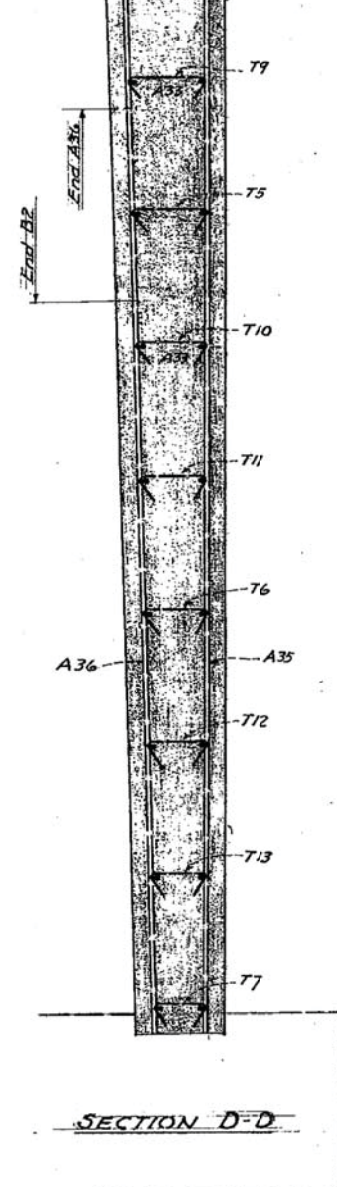
STATE OF NEW HAMPSHIRE HIGHWAY DEPARTMENT BRIDGE DIVISION	
TOWN: STRAFFORD	BRIDGE NO.: 182/106
FEDERAL PROJECT: S-281(2)	STATE PROJECT: S-2233
ROUTE NO.: ROAD OVER MOHAWICK RIVER	LOCATION: 2.2 MI. S.E. FROM VIL. NH 202-A
GENERAL PLAN, ELEVATION & SECTION	
DESIGNED: R.L.P.	DATE: 8/51
CHECKED: C.S.B.	DATE: 8/51
DRAWN: W.H.P.	DATE: 8/51
TRACED: W.H.P.	DATE: 8/51
QUANTITIES: R.L.P.	DATE: 8/51
BRIDGE SHEET NO. 1 OF 3	FILE NUMBER 3-3-1-5

Sheet Scale 3/8" = 1'-0"

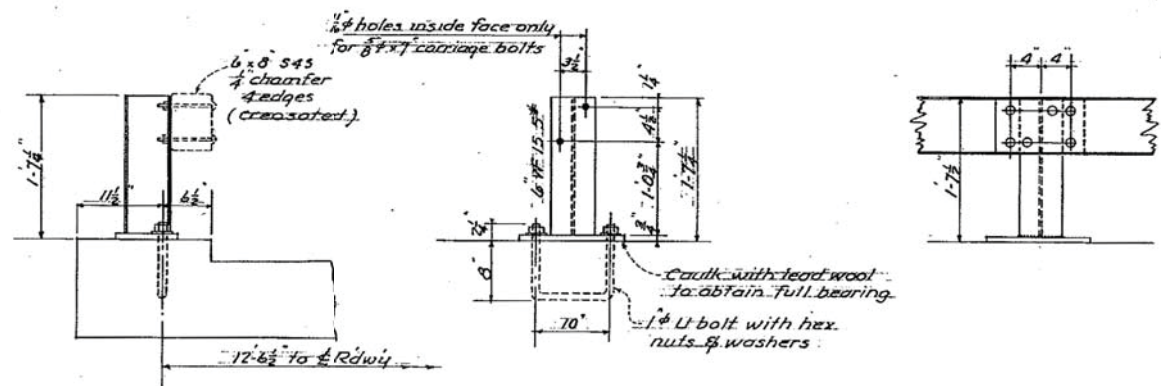
NO.	DESCRIPTION	BY	DATE



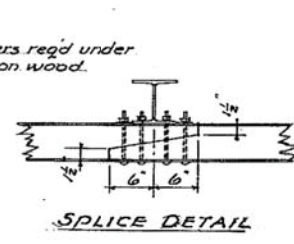
SECTION A-A
Scale 1"=1'-0"



SECTION D-D



BRIDGE RAIL POST DETAIL
4-REQ'D
Scale 1"=1'-0"



SPLICE DETAIL

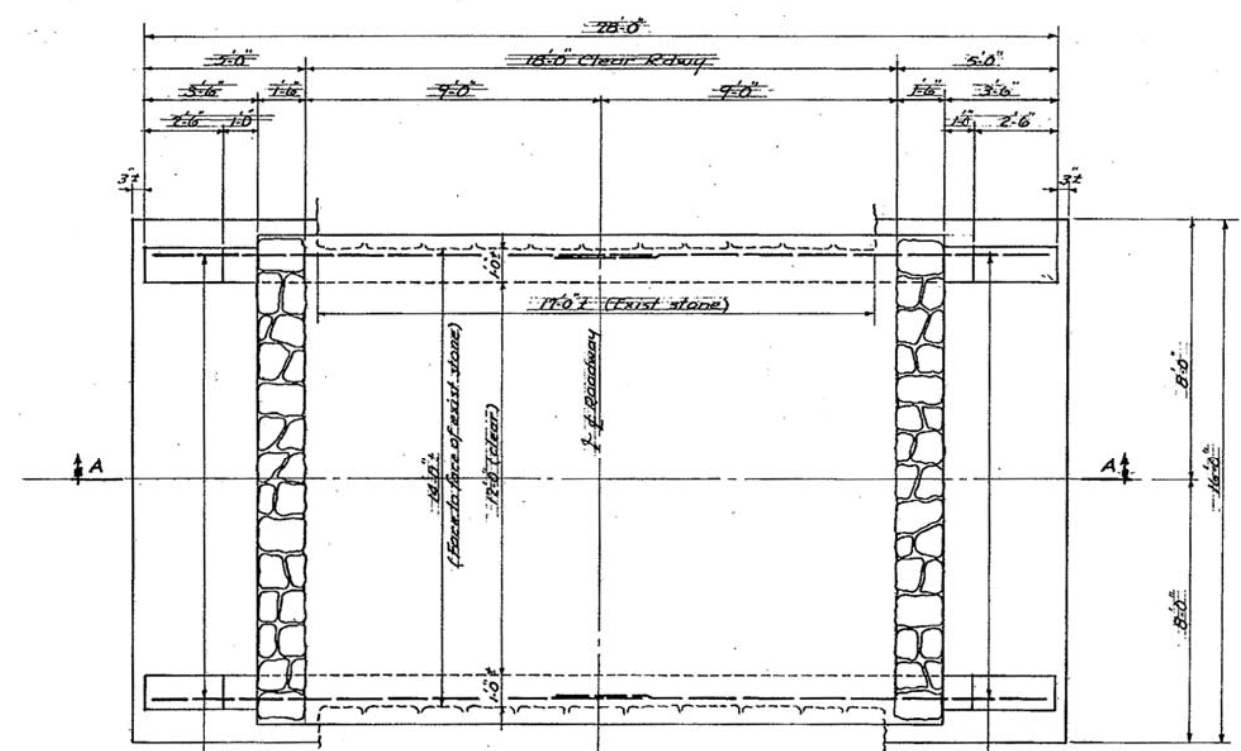
Note:
- Set posts normal to fin grade.
- Steel posts & plates to have one shop coat red lead & oil and two field coats of approved brown paint.
- Portions of posts in contact with wood shall be painted with brown paint before erection.
- Base plates shall be flat and true after welding.
- See Std G.R. 3-D for details not shown.

ESTIMATE OF QUANTITIES		
ITEM NO.	DESCRIPTION	QUANTITY
7.3	Unclass. Channel Excav.	50 cu. yd.
8.3	" Structure "	250 " "
4B	Paint-Waterproofing	59 sq. yd.
32.1	Concrete Class A	147 cu. yd.
35	Reinforcing Steel	14,240 lb.
44	Bridge Railing D	16 lin. ft.
31	Removing Superstructure	1 " "

No salvage

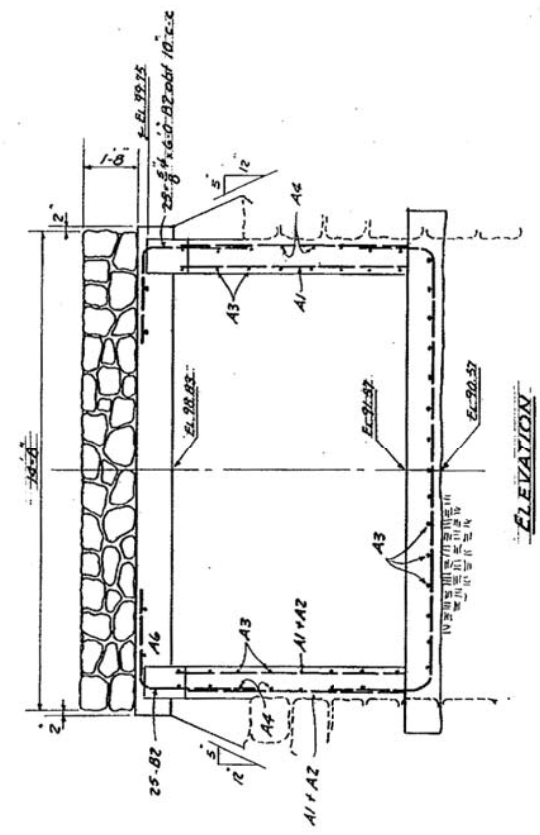
STATE OF NEW HAMPSHIRE HIGHWAY DEPARTMENT BRIDGE DIVISION			
TOWN STRAFFORD		BRIDGE NO. 182/106	
FEDERAL PROJECT S-281(2)		STATE PROJECT S-2233	
ROUTE NO. ROAD OVER MOHAWK RIVER			
LOCATION 2.2 MI. S.E. FROM JCT. N.H. 202-A			
SECT. FRAME REINF. - RAIL POST DETAIL			
DESIGNED R.P.	DATE 8/51	CHECKED J.S.B.	DATE 8/51
DRAWN " "	" "	CHECKED " "	" "
TRACED W.H.P.	" "	CHECKED " "	" "
QUANTITIES R.P.	" "	CHECKED " "	" "
REVISIONS		BRIDGE SHEET NO. 5 OF 5	
		FILE NUMBER 3-3-1-5	

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.				

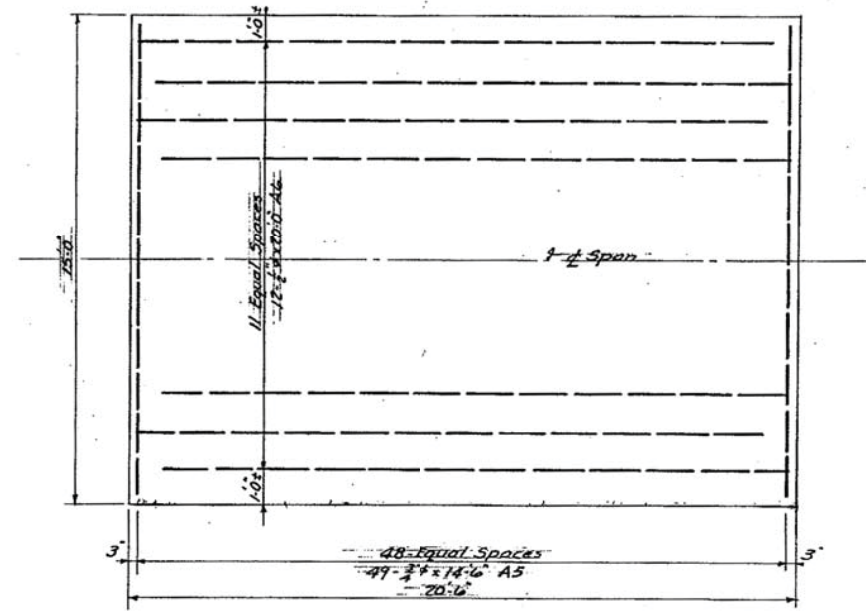


PLAN
Scale 3/8" = 1'-0"

15-A3 @ obt 12 c.c.
Spacers for main steel in invert
(Main steel furnished and in place)



ELEVATION

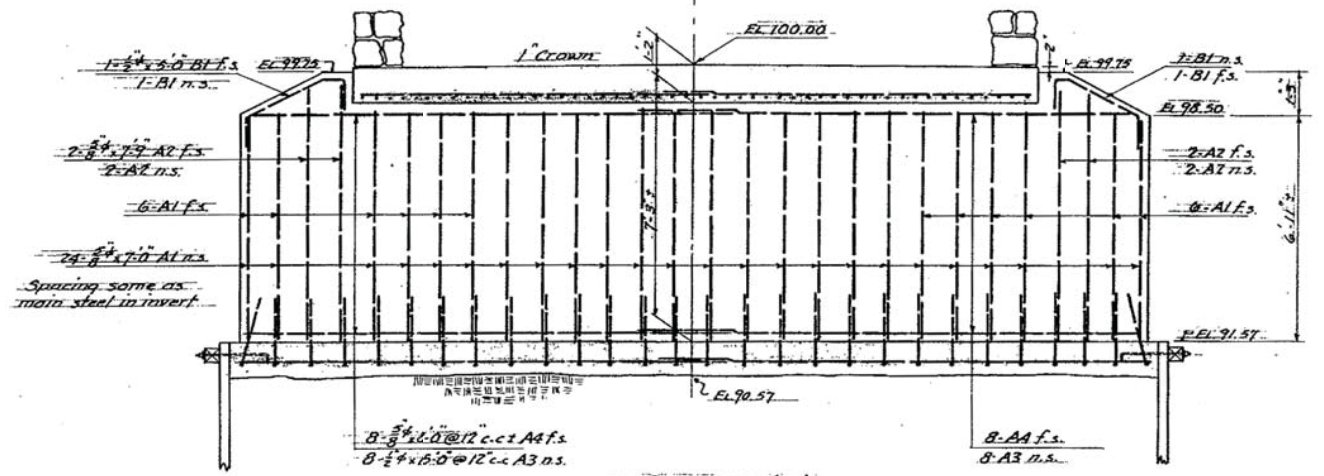


SLAB REINFORCING

REINFORCING STEEL

MARK	No. Pcs.	SIZE	Length	Type	Location
A1	72	3/8"	7'-0"	1	Abut. faces
A2	16	3/8"	7'-9"	"	"
A3	62	1/2"	15'-0"	"	Spacers in invert & walls
A4	32	3/8"	8'-0"	"	Back face of walls of ends
A5	49	3/4"	14'-6"	"	Main slab steel
A6	16	1/2"	20'-0"	"	Slab spacers
B1	8	1/2"	5'-0"	C	Top of wings
B2	50	3/8"	6'-0"	7	Slab to br. seats

Cont. Fr. A 50 c.c.
Reinf. Steel 3165 lb.



SECTION A-A

APPROVED *[Signature]* DATE 9/18/51
BRIDGE ENGINEER

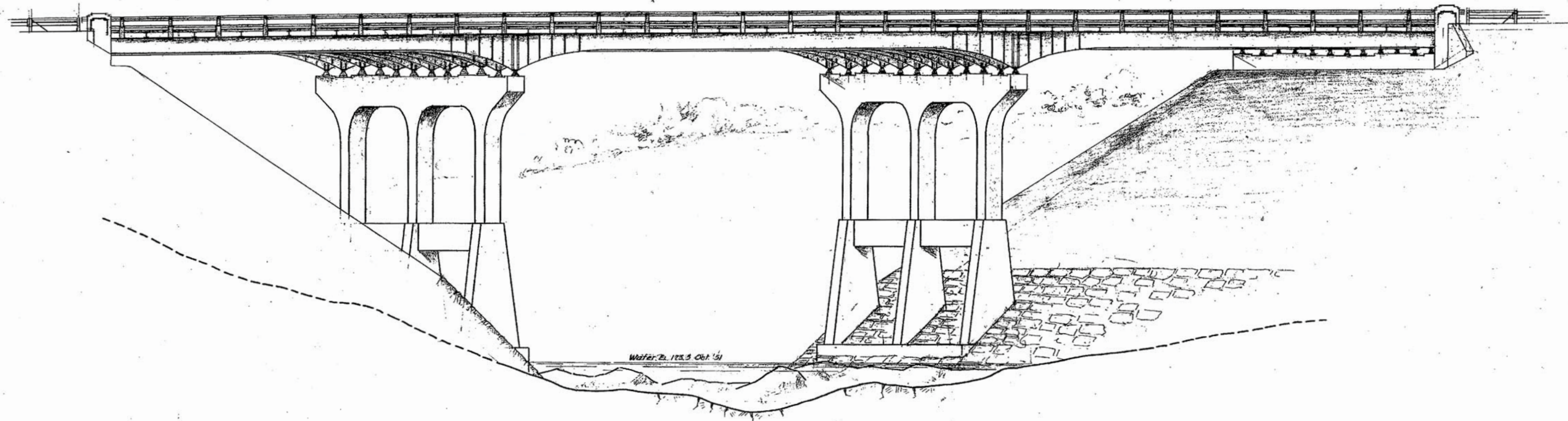
STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN WINDHAM BRIDGE NO. 094/046
FEDERAL PROJECT _____ STATE PROJECT T-2210
ROUTE NO. _____ OVER GOLDEN BROOK
LOCATION 1/4 MI. FROM WINDHAM-DELHAM T. L.

DESIGNED	BY	DATE	CHECKED	BY	DATE	BRIDGE SHEET NO.
DESIGNED	R.A.P.	9/51	CHECKED			1 OF 1
TRACED	W.H.P.	9/50	CHECKED			FILE NUMBER
REVISIONS						3-3-5-8

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	7-2 2495		3	19

L31860



DOWNSTREAM ELEVATION
Scale $\frac{1}{8}'' = 1'-0''$

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

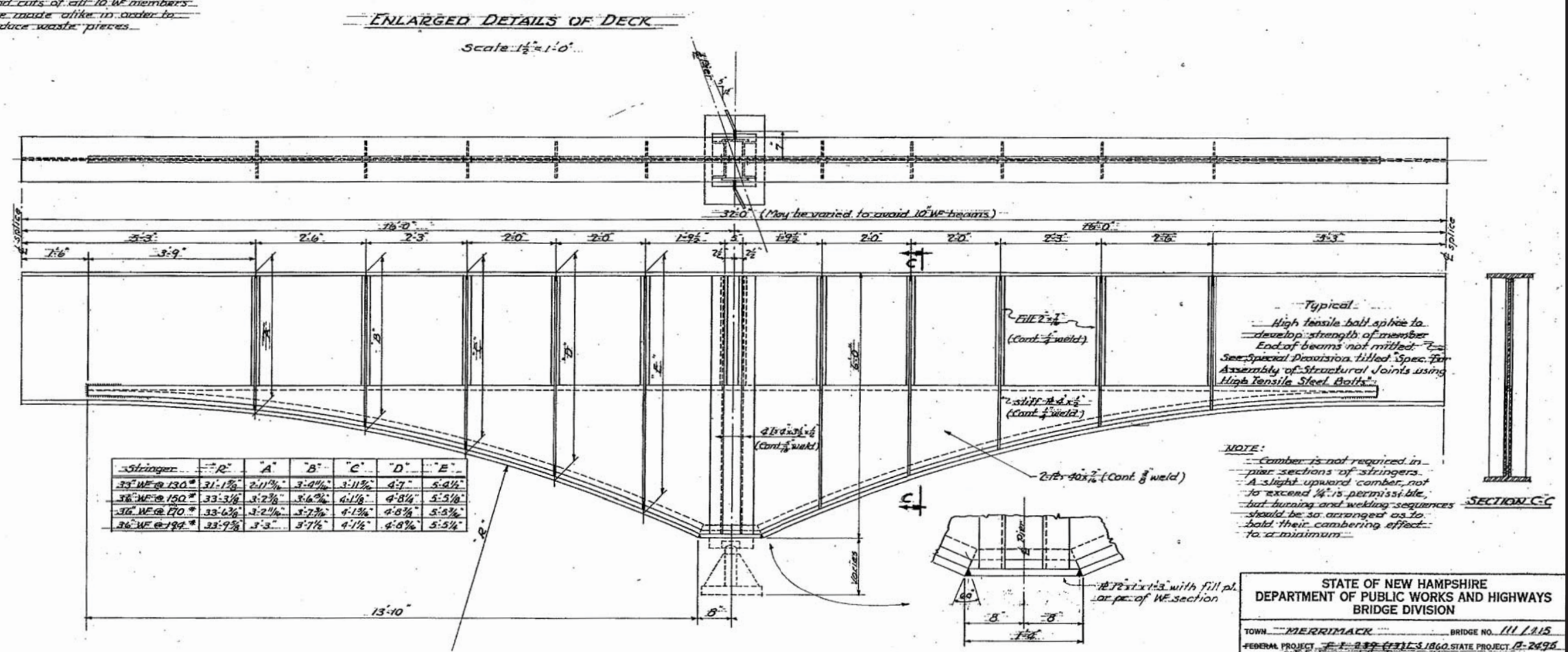
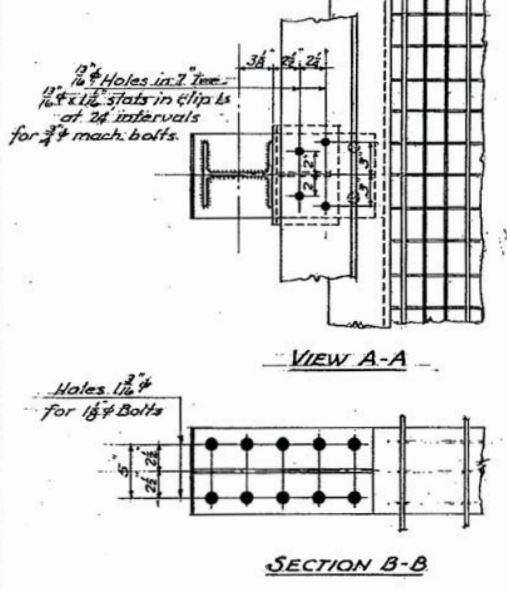
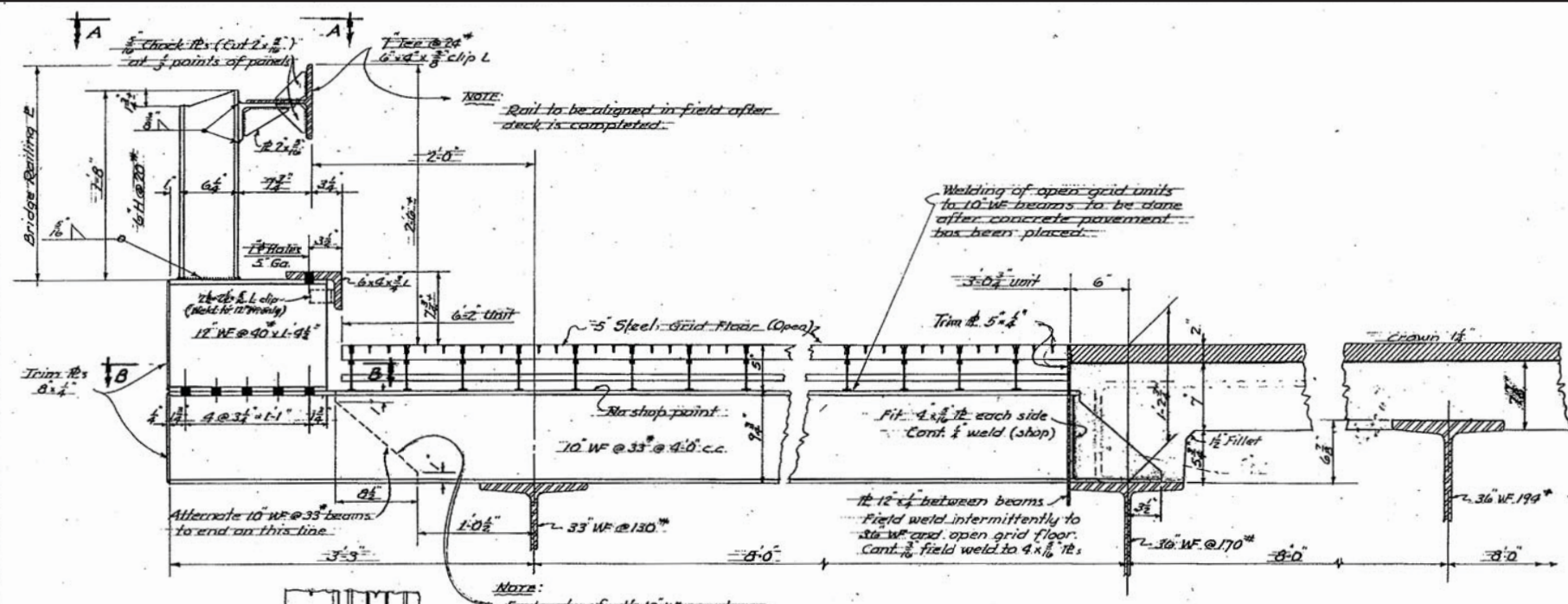
TOWN MERRIMACK BRIDGE NO. 11115
 FEDERAL PROJECT F-1-2495 (L.S. 1860 STATE PROJECT P-2495)
 ROUTE NO. 2495 OVER SOUTHGATE RIVER
 LOCATION SEVEN MILES NORTH OF NASHUA

DOWNSTREAM ELEVATION

DESIGNED <u>R.P.</u>	DATE <u>8/12</u>	CHECKED <u>A.M.W.</u>	DATE <u>11/12</u>	BRIDGE SHEET NO.
DRAWN <u>S.</u>		CHECKED <u>S.</u>		<u>2 OF 18</u>
TRACED <u>M.N.P.</u>	DATE <u>8/12</u>	CHECKED <u>S.</u>		FILE NUMBER
QUANTITIES <u>E.C.G.</u>	DATE <u>12/12</u>	CHECKED <u>R.J.P.</u>	DATE <u>11/12</u>	<u>3 A-9-3</u>

Δ	DESCRIPTION	BY	DATE

REVISIONS



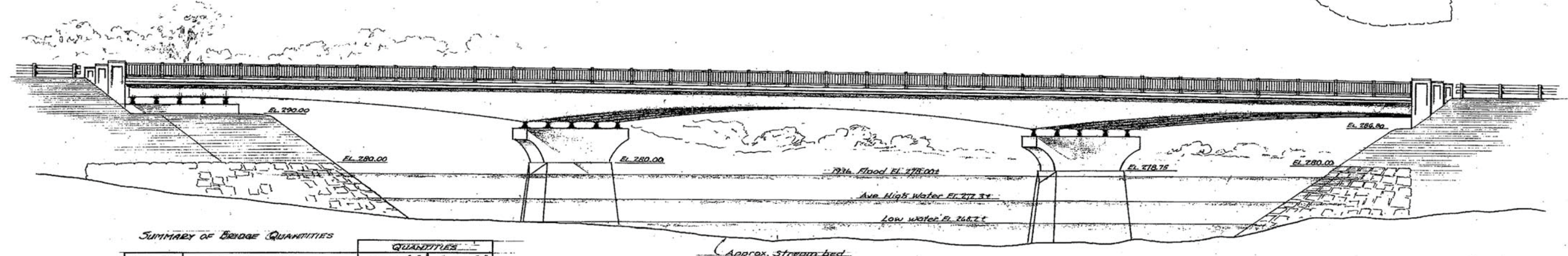
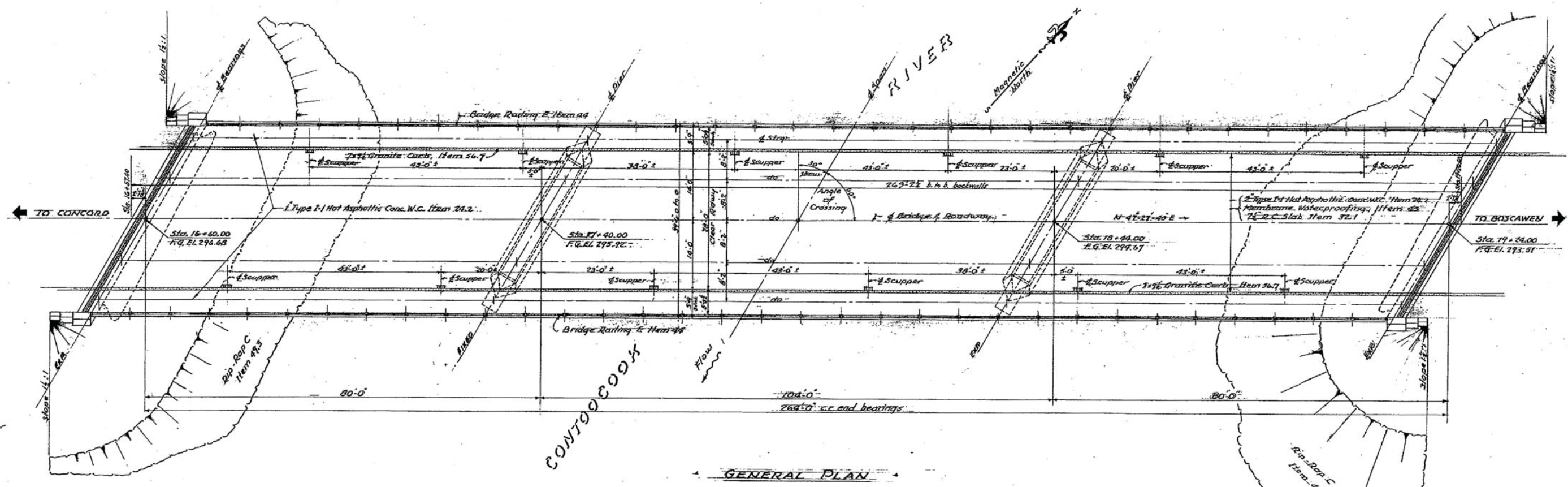
NOTE:
 Camber is not required in pier sections of stringers.
 A slight upward camber, not to exceed 1/4", is permissible, but turning and welding sequences should be so arranged as to hold their cambering effect to a minimum.

STATE OF NEW HAMPSHIRE
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 BRIDGE DIVISION

TOWN: MERRIMACK BRIDGE NO. 111 / 115
 FEDERAL PROJECT: F-1-22942 L 51860 STATE PROJECT: B-2696
 ROUTE NO.: 103 OVER SOUBERAN RIVER
 LOCATION: SEVEN MILES NORTH OF NASHUA

DETAILS PIER SECTIONS & DECK

DESIGNED: R.U.P.	DATE: 8/53	CHECKED: A.M.W.	DATE: 1/54	BRIDGE SHEET NO. 7 OF 18
DRAWN: M.H.R.	DATE: 9/53	CHECKED: R.U.P.	DATE: 1/54	FILE NUMBER A-9
QUANTITIES: F.C.S.	DATE: 1/54	CHECKED: R.U.P.	DATE: 1/54	



SUMMARY OF BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITIES	
		DESIGN A	DESIGN B
8.1	EARTH STRIKE EXCAVATION	85 c.y.	dillo
8.2	LEDGE STRIKE EXCAVATION	16.0 c.y.	dillo
24.2	TYPE I-1 HOT ASPH. CONC. W.C.	107 sqm.	dillo
32.1	CONCRETE CL.A. (air entrained)	774 c.y.	377 c.y.
35	REINFORCING STEEL	87,200 lbs.	87,200 lbs.
36.1	STRUCTURAL STEEL	385,000 lbs.	362,000 lbs.
36.2	BRIDGE SHOES	1 unit	dillo
44	BRIDGE RAILING "E"	527 lin. ft.	dillo
45	MEMBRANE WATERPROOFING	835 sq. ft.	dillo
48	PAINT WATERPROOFING	344 sq. ft.	dillo
49.3	REP. ROP "C"	3865 c.y.	dillo
36.7	STRAIGHT GRANITE CURB (BRIDGE)	530 lin. ft.	dillo

GENERAL NOTES

Design Loading: H20-516-44
 Specifications: A.S.T.M. 1949 & N.H.H.D. 1948
 All concrete shall be Class A (air entrained)
 For surface finish of concrete see Special Provisions
 For further information see sheets attached to Proposal
 Addenda to Specifications attached to Proposal
 Order of placing concrete in superstructure shall meet the approval of the Bridge Engineer
 Main reinforcing shall be 2" clear from surfaces of concrete, unless otherwise noted.
 Drawings in general have been prepared for Design A with notes and sheet # 15 added for Design B.

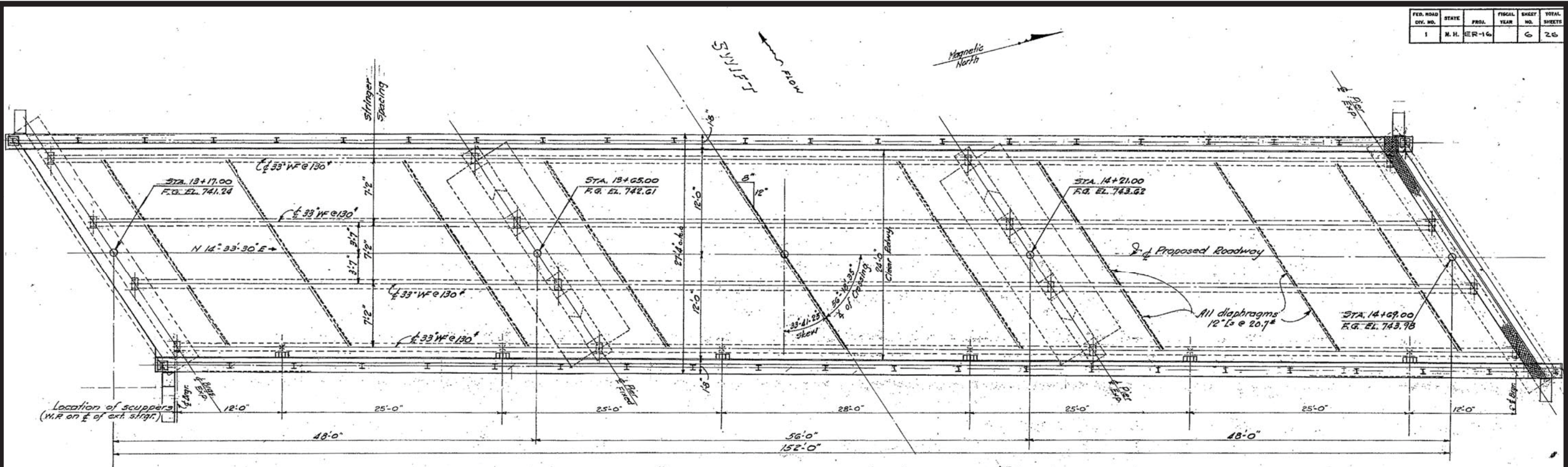
APPROVED: *[Signature]* DATE: 5/20/53
 BRIDGE ENGINEER

STATE OF NEW HAMPSHIRE
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 BRIDGE DIVISION
 TOWN: CONCORD-BOSCAWEN BRIDGE NO. 131/035
 FEDERAL PROJECT: 11322 (1) STATE PROJECT: C 2385
 ROUTE NO. OVER CONTOOCCOOK RIVER
 LOCATION: EAST OF PENACOOK VILLAGE

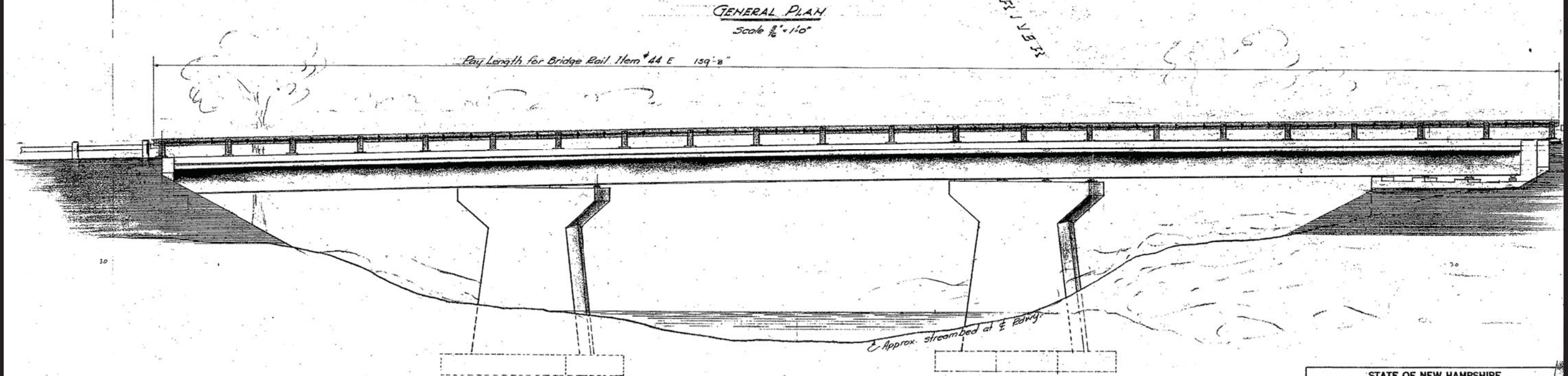
Sheet Scale 1" = 10'-0"

GENERAL PLAN & ELEVATION			
DESIGNED	BY	DATE	BRIDGE SHEET NO.
DRWN	R.L.P.	5/53	1 OF 15
TRACD	W.H.P.	5/53	FILE NUMBER
QUANTITIES	J.J.G.	5/53	1.2.2.13

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	ER-16		6	26



GENERAL PLAN
Scale 3/8" = 1'-0"



UPSTREAM ELEVATION

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN: TAMWORTH BRIDGE NO. 061/071
FEDERAL PROJECT: ER16 STATE PROJECT: 52740
ROUTE NO. 113A OVER SWIFT RIVER
LOCATION: 3.0 Mi. No. of Rt. of Rt. 113 & 113-A

GENERAL PLAN & ELEVATION			
DESIGNED	BY	DATE	BRIDGE SHEET NO.
R.P.P.	J.S.B.	7/55	2 OF 10
DRAWN	A.N.L.	7/55	
TRACED			
QUANTITIES	A.N.L.	7/55	FILE NUMBER: 3-5-1-1

REVISIONS	DESCRIPTION	BY	DATE

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	8-30(3)	55	6	76

GR. EL.	TEST PIT	DESCRIPTION	DEPTH	REMARKS
974.9	1	SAND - GRAVEL	173	
974.9	1	SILT - SAND	43	
974.9	1	HARDPAN	38	
974.9	1	Refusal	76	
974.9	1	Refusal on ledge or Bldgs.		
951.4	2	SILT - SAND	173	
951.4	2	GRAVEL + BOULDERS	250	
951.4	2	Refusal	423	
947.6	3	SILT - SAND	173	
947.6	3	GRAVEL + BOULDERS	150	
947.6	3	Refusal	323	

TEST PITS

#1 159+77 4'RT. Highly weathered Bed Rock EL. 951.4
 #2 159+87 37'RT. Possible Bed Rock EL. 943.7
 #3 159+79 37'RT. Possible Bed Rock EL. 947.6

LOG OF BORINGS

Borings made by N.H.D.P.W. & Hwys - June 1955. Figures in right hand column indicate number of blows required to drive a 1 1/2" O.D. A-Rod one foot, using a 135lb. weight falling 2 feet. Borings are for design only and do not necessarily indicate material to be encountered during construction. Samples of materials encountered may be examined at the office of the Bridge Engineer in Concord, N.H.

Test Pits.

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
8.3	Unclass. Structure Exc.	300	c.y.
24.2	Type I-1 Hot Asph. Con. W.C.	91	ton
32.1	Concrete Class A	950	c.y.
35	Reinforcing Steel	184,500	lb.
44	Bridge Railing E	386.4	lf.
47	Membrane Waterproofing	659	s.y.
48	Paint Waterproofing	84	s.y.
49.3	Rip Rap C	550	c.y.

For Gravel Backfill see Roadway Quantities.

GENERAL NOTES

Design Loading H 15-512
 Specifications A.A.S.H.O. 1953 & N.H.D.P.W. & H. 1954.
 Concrete shall be Class A.
 Main reinforcing steel shall be 2" clear except as shown.
 For further information see sheets titled "Addenda to Specifications," attached to Proposal.

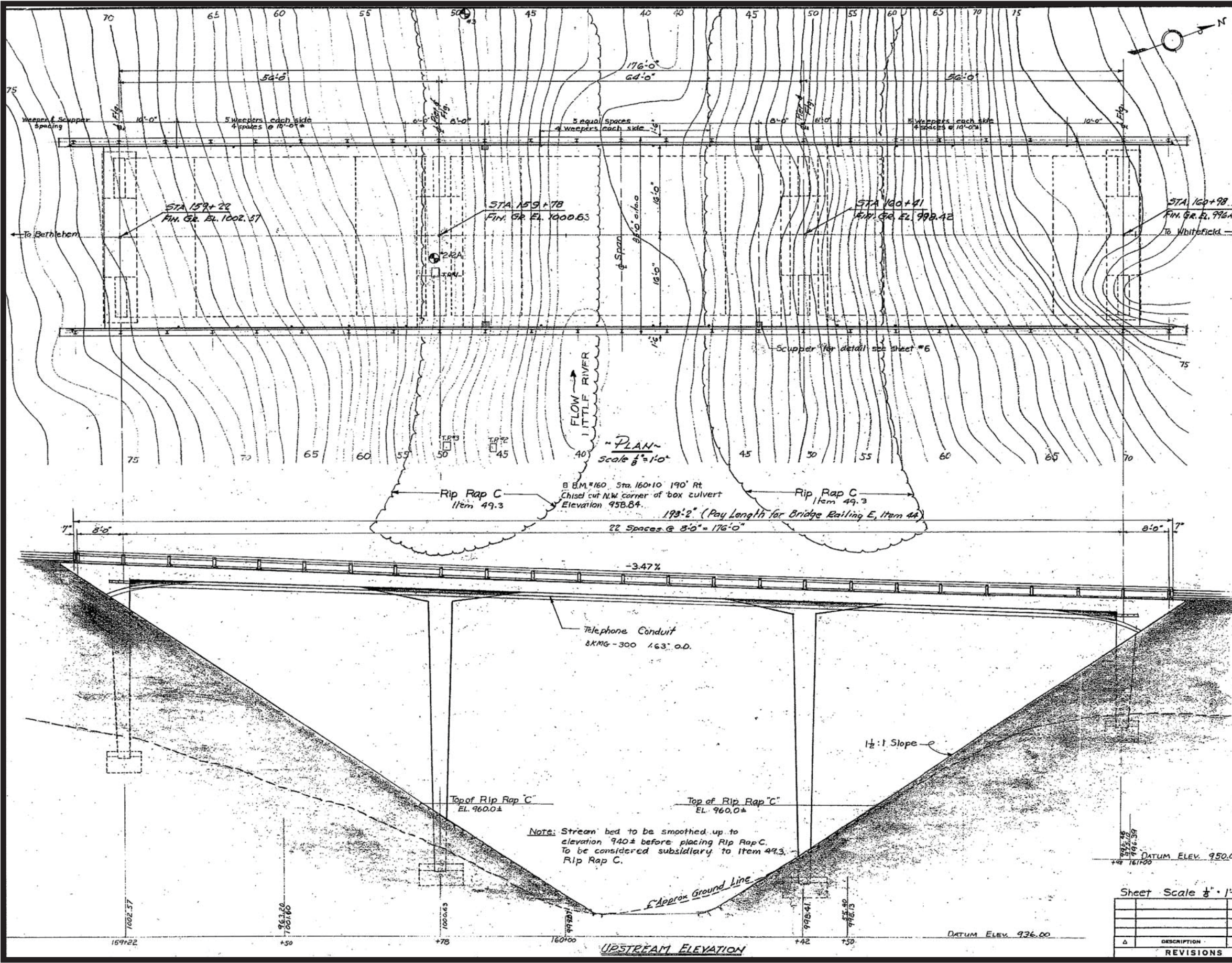
APPROVED: *W. Douglas* DATE 10/4/55
 BRIDGE ENGINEER

STATE OF NEW HAMPSHIRE
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 BRIDGE DIVISION

TOWN WHITEFIELD BRIDGE NO. 103/095
 FEDERAL PROJECT - STATE PROJECT 52446
 ROUTE NO. 116 OVER LITTLE RIVER
 LOCATION 3.5 MI. NORTH WHITEFIELD - BETHLEHEM T.L.

SURVEY PLAN & PROFILE

DESIGNED R.L.R.	DATE 8/55	CHECKED J.S.B.	DATE 9/55	BRIDGE SHEET NO. 1 OF 7
DRAWN R.L.P.	DATE 8/55	CHECKED J.S.B.	DATE 9/55	FILE NUMBER
TRACED		CHECKED		
QUANTITIES A.I.L.	DATE 9/55	CHECKED J.S.B.	DATE 9/55	3-5-1-5



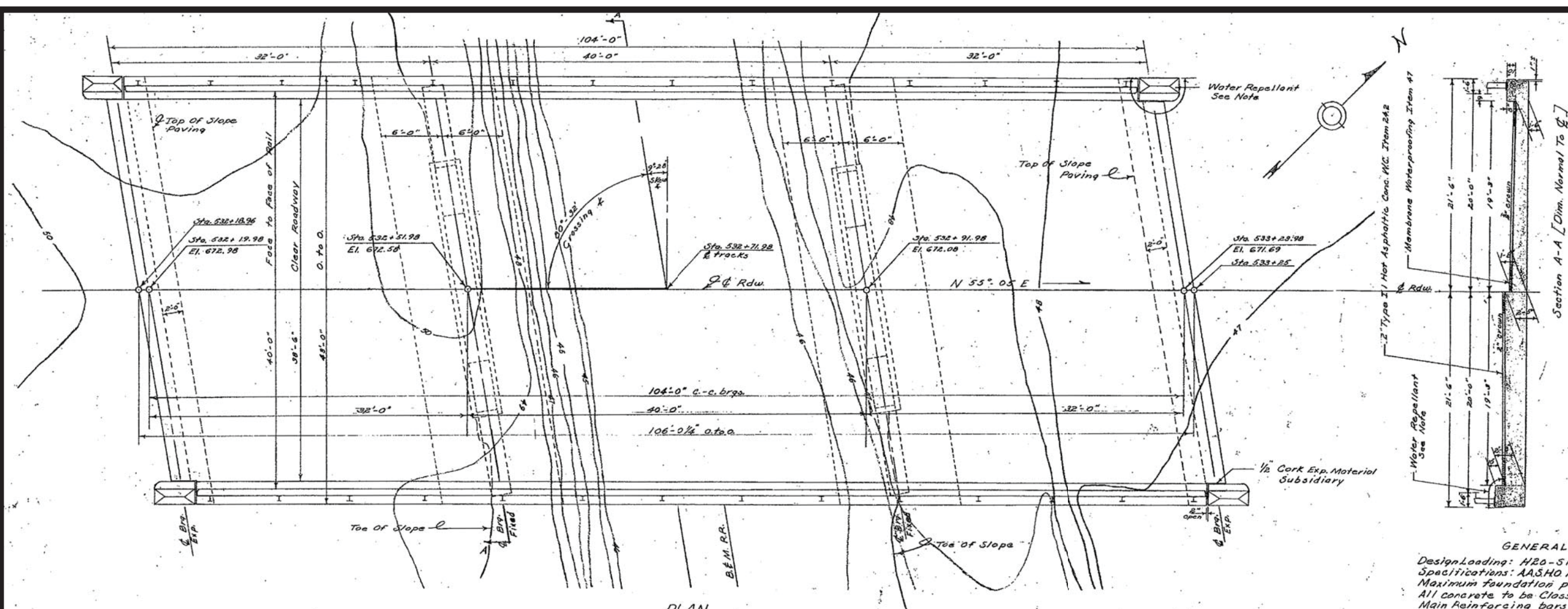
NOTE: Stream bed to be smoothed up to elevation 940± before placing Rip Rap C. To be considered subsidiary to Item 49.3. Rip Rap C.

Sheet Scale 1/8" = 1'-0"

REVISIONS

NO.	DESCRIPTION	BY	DATE
1			

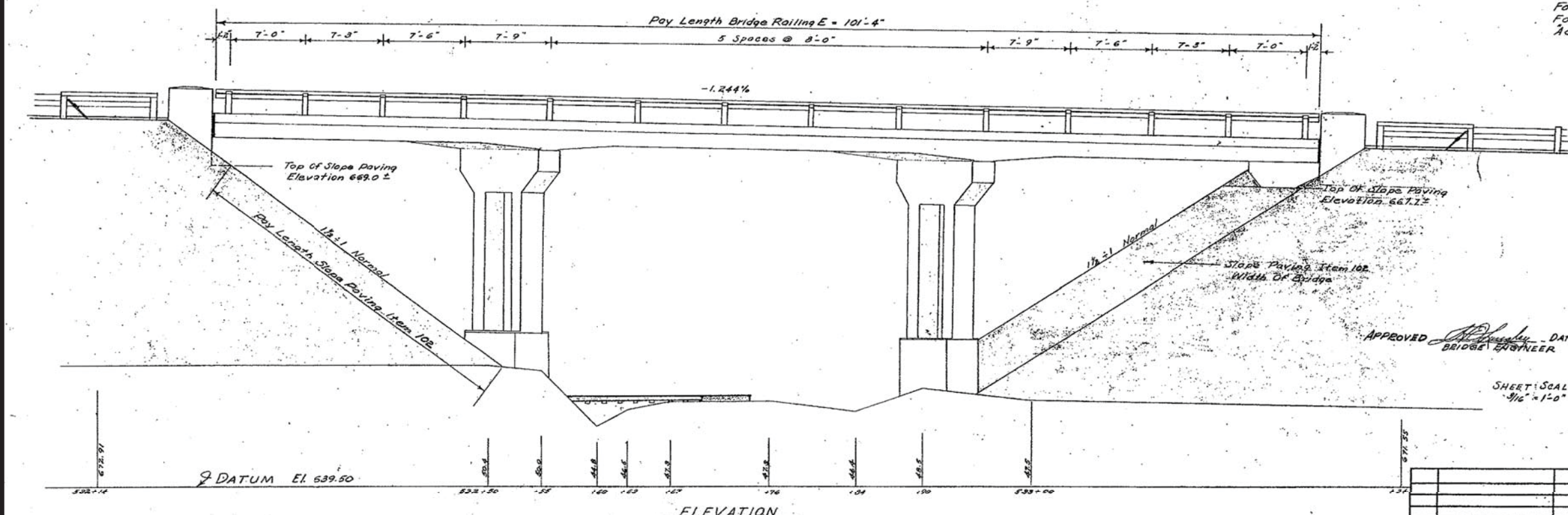
FED. ROAD DIV. NO.	STATE	F.A.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.	F-023-1(4)	1958	5	86



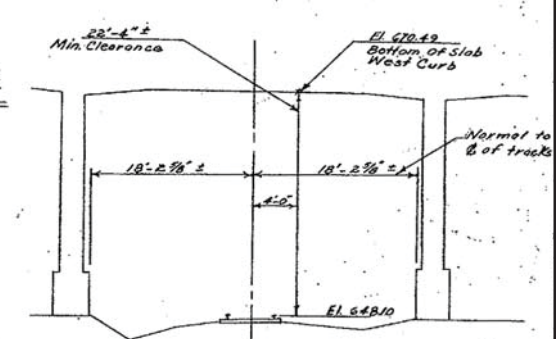
Note: The Areas Shown On This Sheet Shall Be Given A Spray Treatment With A Colorless Silicious Water Repellent In A Particular Manner As Specified In Item 102, Item 103 & Item 104 of the Specifications. The Silicious Water Repellent Shall Be Applied To The Dry & Clean Concrete Surfaces At A Rate Of 120-180 sq. ft. per Gal. By The Use Of An Approved Hand Or Powered Spraying Unit. Subsidiary.

GENERAL NOTES
 Design Loading: H20-516
 Specifications: AASHTO 1953 & N.H.DRW & HWY. 1954
 Maximum foundation pressure 6000 lb/ft²
 All concrete to be Class A (3000) air-entrained.
 Main reinforcing bars shall be 2 inches clear from all concrete surfaces except as noted.
 For surface finish of concrete see Special Provision Addenda to Specifications, attached to Proposal.

PLAN



ELEVATION



CLEARANCE DIAGRAM
 TRANSVERSE SECTION NORMAL TO TRACKS
 SCALE - 1/4" = 1'-0"

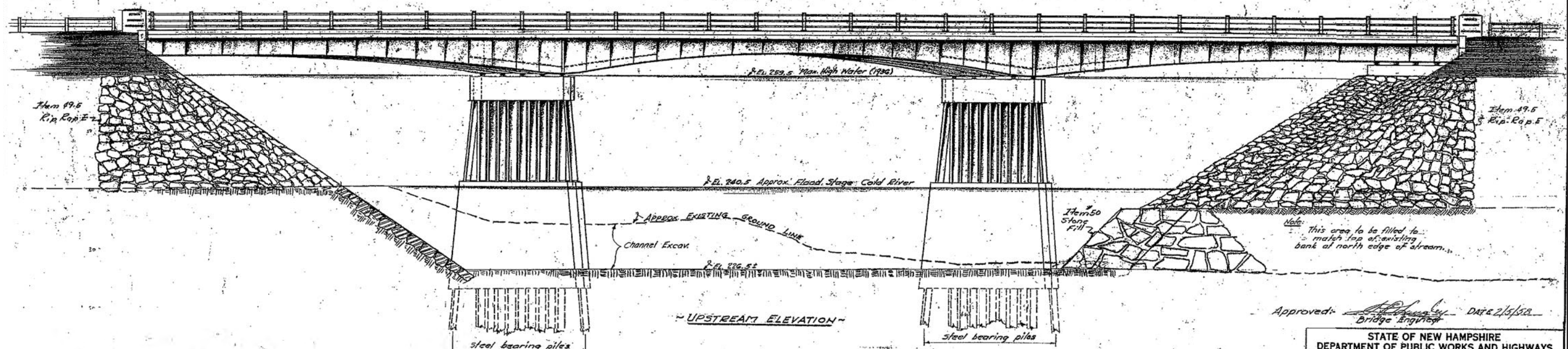
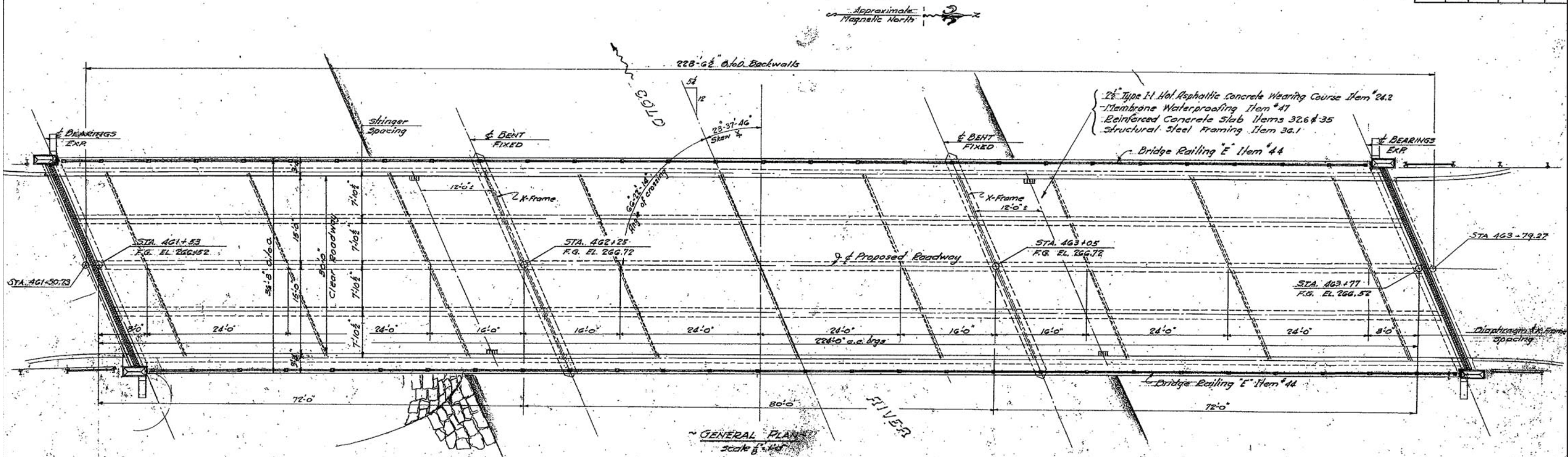
APPROVED [Signature] DATE 11/11/57
 BRIDGE ENGINEER

SHEET SCALE
 3/16" = 1'-0"

STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS BRIDGE DIVISION			
TOWN	OSSISPEE	BRIDGE NO.	194/146
FEDERAL PROJECT	F-023-1(4)	STATE PROJECT	D-5363
ROUTE NO.	70	OVER	B.E.M. R.R.
LOCATION	OSSISPEE VILLAGE		
GENERAL PLAN & ELEVATION			
DESIGNED	E.A.H.	DATE	10/57
DRAWN	E.A.H.	DATE	11/57
CHECKED	A.J.L.	DATE	11/57
QUANTITIES	A.J.L.	DATE	12/57
CHECKED	E.A.H.	DATE	12/57
BRIDGE SHEET NO.	1 OF 7		
FILE NUMBER	3-6-1-4		

NO.	DESCRIPTION	BY	DATE

FED. ROAD DIV. NO.	STATE	F.A.R. PROJ. YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	FO13-100		5	97



GENERAL NOTES:-

Design Loading H20-S16
 Specifications:- A.A.S.H.O. 1959
 N.H. D.P.W. & Highways 1954
 A.W. Sec. Std. Specs. for Welded Hwy. & RR Bridges 1956

Design load on piles, all equipment details, at Piers 35 tons.
 Proposed waterway area 4700 sq ft. (Not below E. 259.5)
 Existing R.E. structure and highway inundated in 1932 flood.
 Structural steel for webbing shall be A.S.T.M. Des. A373-54 T
 and shall be used throughout the structure except for
 shoes, diaphragms, and minor non-stress carrying details.
 Concrete shall be Class A except for Class AA in deck. All concrete 3000 psi min.
 Reinforcing steel shall be Intermediate Grade (20,000 p.s.i.)
 Main Reinforcing shall be 2" clear from all concrete.

For surface finish of concrete see Special Provisions
 For further information see sheet titled "Addenda to Specifications" attached to Proposal

NO.	DESCRIPTION	BY	DATE

Approved: *[Signature]* Bridge Engineer DATE 2/15/52

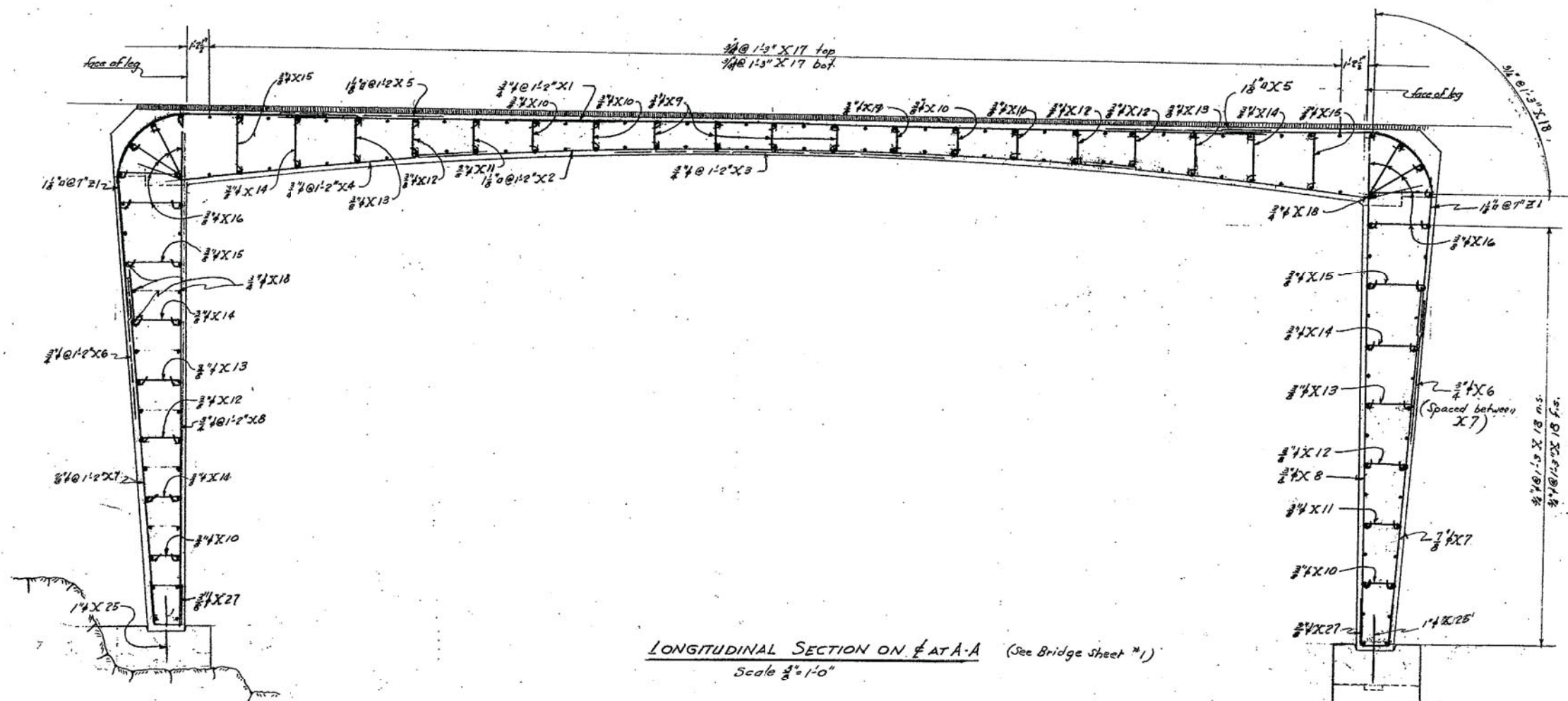
STATE OF NEW HAMPSHIRE
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 BRIDGE DIVISION

TOWN: WALPOLE BRIDGE NO. 082/065
 FEDERAL PROJECT: FO13-1 (10) STATE PROJECT: P3074
 ROUTE NO. 12 OVER GOLD RIVER
 LOCATION: APPROX 2.8 MI. No. of Walpole Village

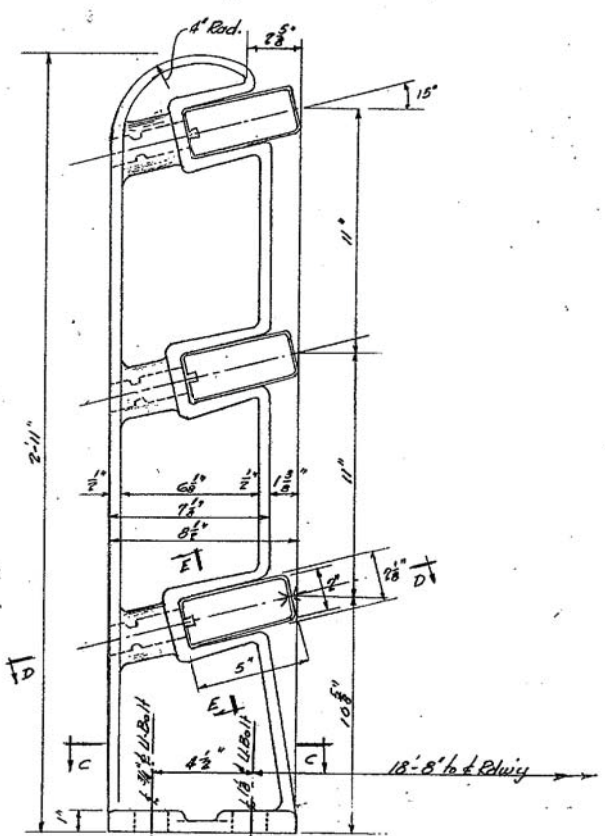
GENERAL PLAN & ELEVATION

DESIGNED BY: R.L.P. DATE: 12-51	CHECKED BY: H.A.S. DATE: 1-52	BRIDGE SHEET NO. 1 OF 11
DRAWN BY: R.L.P. DATE: 12-51	CHECKED BY: H.A.S. DATE: 1-52	FILE NUMBER
QUANTITIES BY: E.A.H. DATE: 1-52	CHECKED BY: H.A.S. DATE: 1-52	3-5-4-16

FED. ROAD DIV. NO.	STATE	F.A.P. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F-018-2(B)	1960	13	195



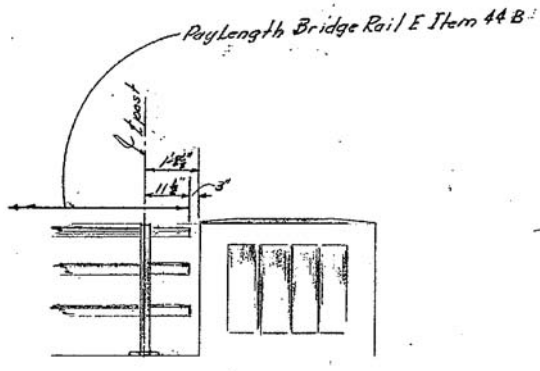
LONGITUDINAL SECTION ON A-A (See Bridge Sheet #1)
Scale 1/2"=1'-0"



SECTION C-C
POST DETAIL
Scale 3/8"=1'-0"

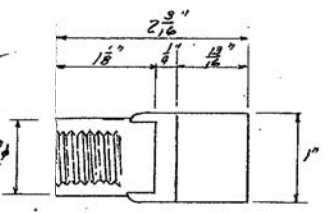
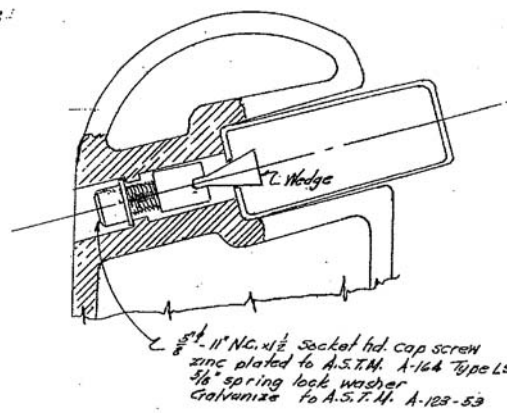
U-TYPE ANCHOR BOLTS (Galvanized to A.S.T.M. A-123-53)
(N.T.S.) subsidiary to Item 44-B

NOTES:-
Rail posts and wedges to be malleable iron castings, A.S.T.M. A-47 Grade 35018 galvanized to A.S.T.M. A-123-53.
Rails to be steel tubing A.S.T.M. A245 Grade C galvanized to A.S.T.M. A123-53 Nominal rail length to be approx. 22'-0" with each length of rail furnished with splicing sleeve 14'-0" in length. Splices in rails to be staggered.
All welds to be ground smooth.
Posts, anchor bolts, wedges, rails and all other parts or accessories necessary to complete the item are to be paid for as Item 44-B Bridge Railing "E".
Rail, rail posts, and wedges shall have neither shop nor field paint.

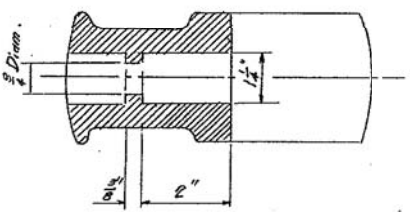


TYPICAL RAIL-END POST DETAIL
Scale 1/2"=1'-0"

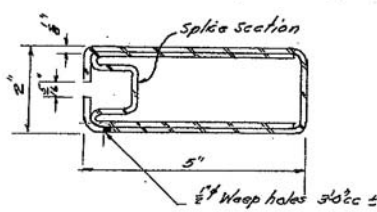
Note:
For rail post spacing see bridge sheet #3.



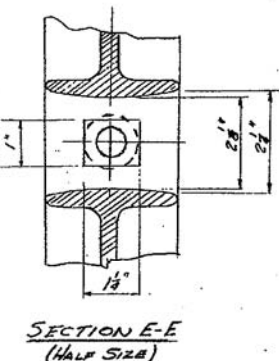
DETAIL OF WEDGE
(FULL SIZE)



SECTION D-D
(HALF SIZE)



TYPICAL SECTION THRU RAIL
(HALF SIZE)

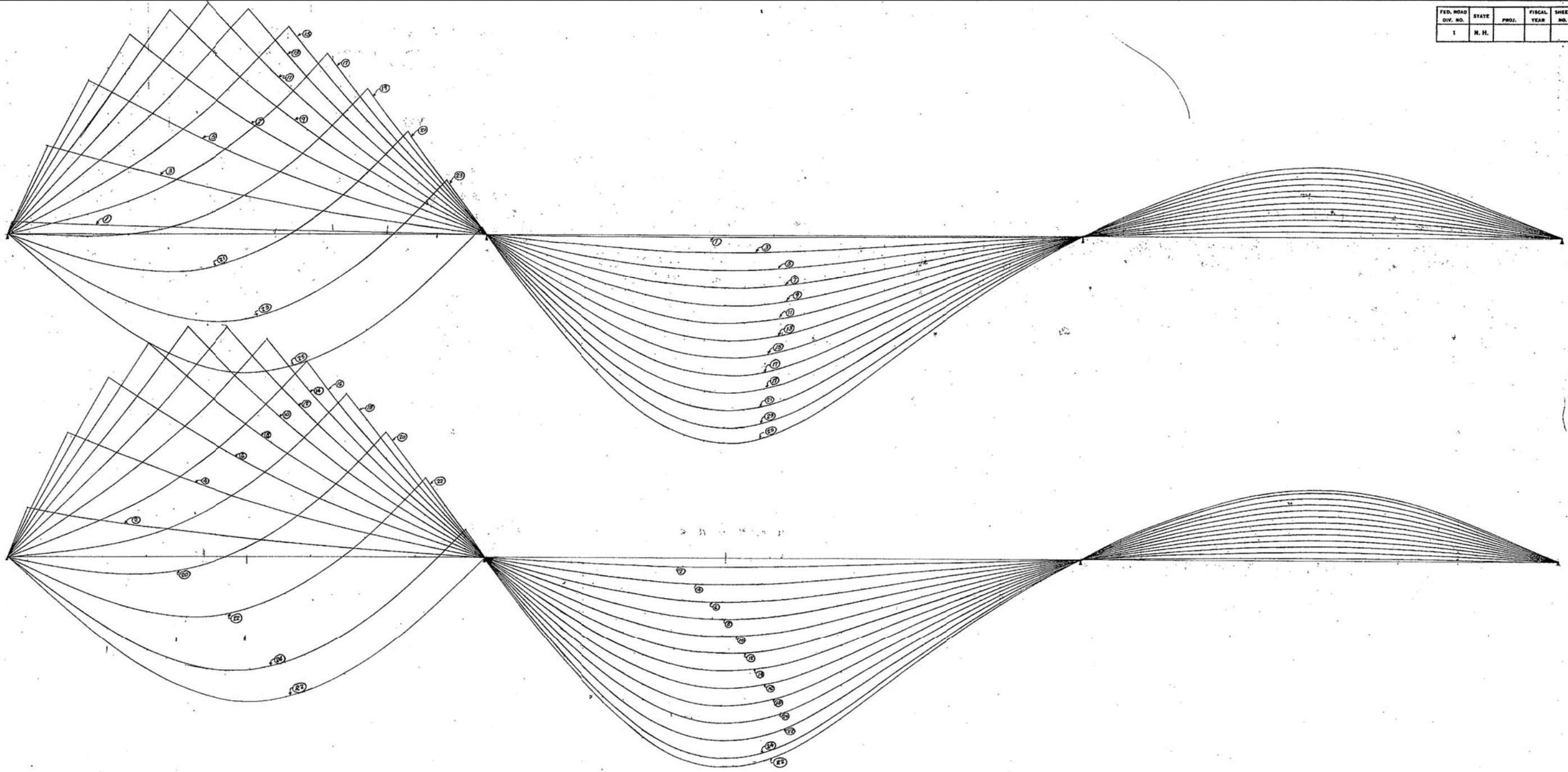


SECTION E-E
(HALF SIZE)

DESIGNED	DATE	CHECKED	DATE	BRIDGE SHEET NO.
R.P.R.	2-28	H.A.S.	4-22	6 OF 9
DRAWN	H.A.S.	2-28	2-28	FILE NUMBER
TRACED	H.A.S.	2-28	2-28	

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION
TOWN: Exeter
BRIDGE NO. 028/101
FEDERAL PROJECT: E-018-2(B) STATE PROJECT: R3280-A
ROUTE NO. 85 OVER Rt. 101
LOCATION: Approx 1.5 Mi. N. of Exeter
FRAME REINFORCING DETAILS & RAIL DETAILS

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.				



INFLUENCE LINES FOR MOMENT

- SHEET SCALE -
 HORIZ. SCALE 1"=10'
 VERT. SCALE 1"=4 k.R.

3

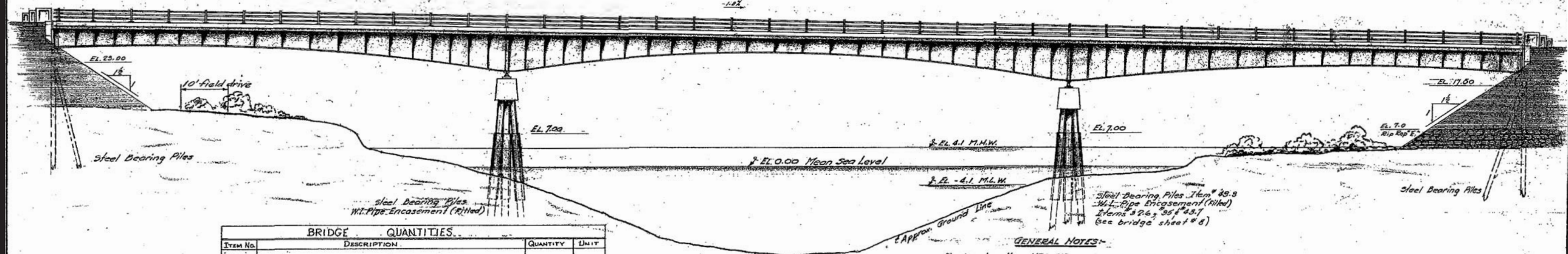
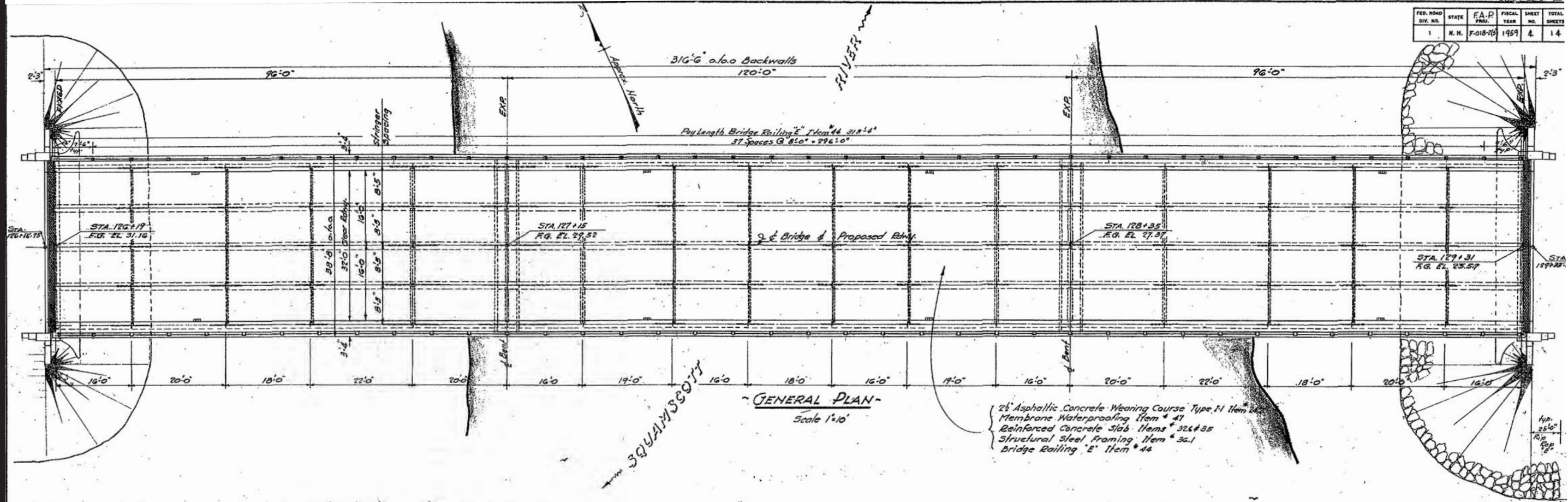
STATE OF NEW HAMPSHIRE
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 BRIDGE DIVISION

TOWN EXETER SEATHAM BRIDGE NO. _____
 FEDERAL PROJECT E-EG-018-2(5) STATE PROJECT B3380
 ROUTE NO. 101 OVER SQUAMSCOTT RIVER
 LOCATION Approx 1.5 Mi. No. of Exeter

NO.	DESCRIPTION	BY	DATE

INFLUENCE LINES			
DESIGNED	BY	DATE	BRIDGE SHEET NO.
<u>R.P.P.</u>	<u>H.A.S.</u>	<u>8/57</u>	OF
<u>R.P.P.</u>	<u>E.A.H.</u>	<u>8/57</u>	FILE NUMBER
			<u>8-6-2-1</u>

FED. ROAD DIV. NO.	STATE	F.A.D. PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.	F-018-2(5)	1959	4	14



BRIDGE QUANTITIES			
Item No.	DESCRIPTION	QUANTITY	UNIT
28.2	Type I-1 Hot Asphaltic Concrete Wearing Course	151	Tons
32.1	Concrete Class A	174.8	C.Y.
32.6	Concrete Class A-R (deck & pile encasements)	360.9	C.Y.
35	Reinforcing Steel	80,509	Lb.
36.1	Structural Steel	1	Unit
36.2	Bridge Shoes	1	Unit
43.3	Steel Bearing Piles	233,016	Lb.
43.4	Pile Loading Tests	2	Each
43.5	Pile Driving Equipment	1	Unit
43.7	Wrought Iron Pipe Encasement	1	Unit
44	Bridge Rail "E"	626.7	L.F.
47	Membrane Waterproofing	1111	S.Y.
48	Paint Waterproofing	93	S.Y.
49.5	Riprap "E"	52	C.Y.

GENERAL NOTES:

Design Loading H20-S16
Specifications: A.R.S.M.O. 1953
N.H.D.R.W. & Highways 1954
A.W. Society Std. Specs. for Welded Hwy. & R.R. Bridges 1954

Design load on piles 55 tons @ biers and 50 tons @ Abutments.
Concrete shall be Class A except for Class AA in deck, and pile casings (All concrete to be 2000' - Baloo ENGINEER Air entrained)

Structural steel for welding shall be A.S.T.M. Des. A373-54T and shall be used throughout the structure except for shoes, diaphragms, cross frames and minor non-stress carrying members.
Reinforcing steel shall be Intermediate Grade (20,000 p.s.i.)
Main reinforcing shall be 2" clear from concrete surfaces, except as noted.

For surface finish of concrete see Special Provisions
Bridge Railing is to be galvanized and will not be painted.
Wrought Iron pipe sleeves to have one brush coat of Koppers Bikymastic #50, or equivalent on exterior surfaces only, prior to installation.
After erection is complete, exposed surfaces of steel shall be given one brush coat of Koppers Bil. #50 or equivalent.

For further information see sheet titled "Addenda to Specs.", attached to proposal.

Approved: *[Signature]* Date 3/17/58
Baloo ENGINEER

**STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION**

TOWN: EXETER - STRATHAM (See Plan) 106/100
BRIDGE NO. 106/100
FEDERAL PROJECT: F-018-2(5) STATE PROJECT: P3380
ROUTE NO. 101 OVER SQUAMSCOTT RIVER
LOCATION: APPROX. 1.5 MI. N. OF EXETER

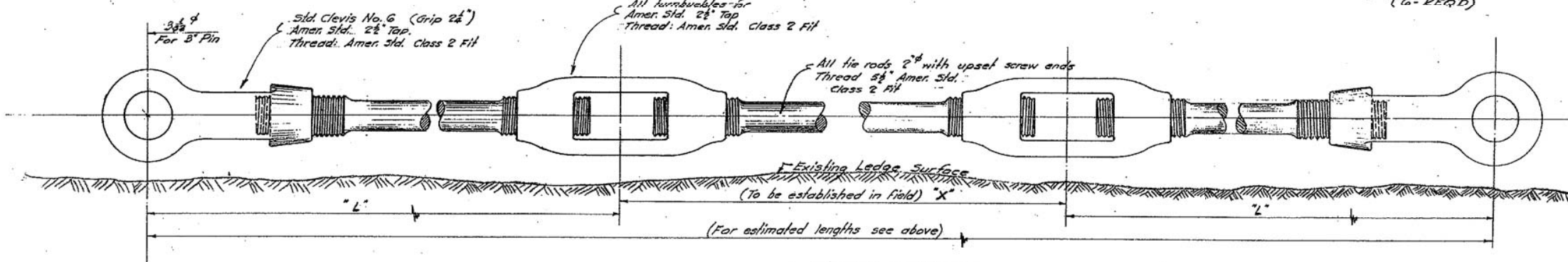
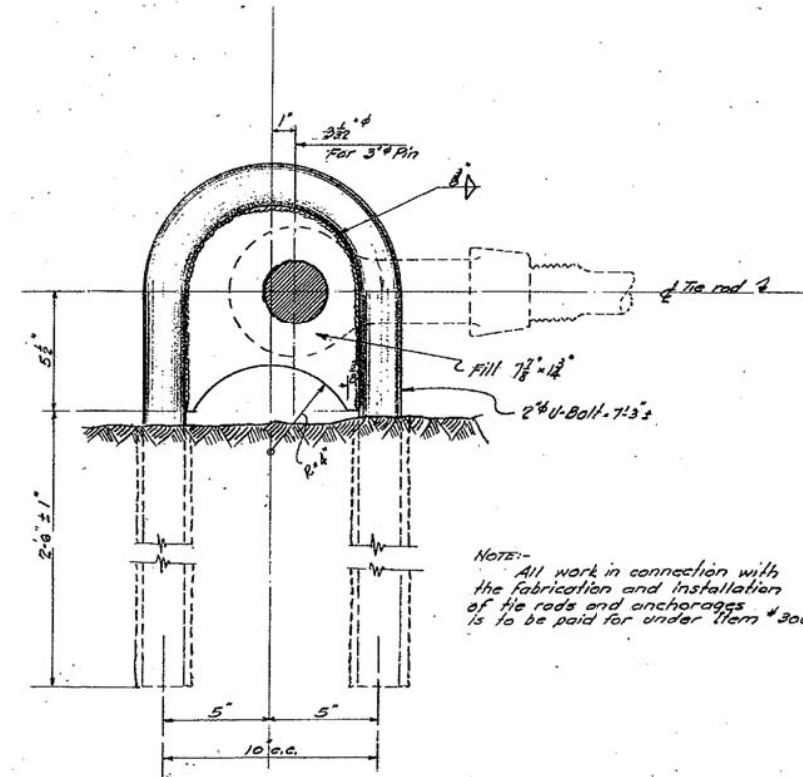
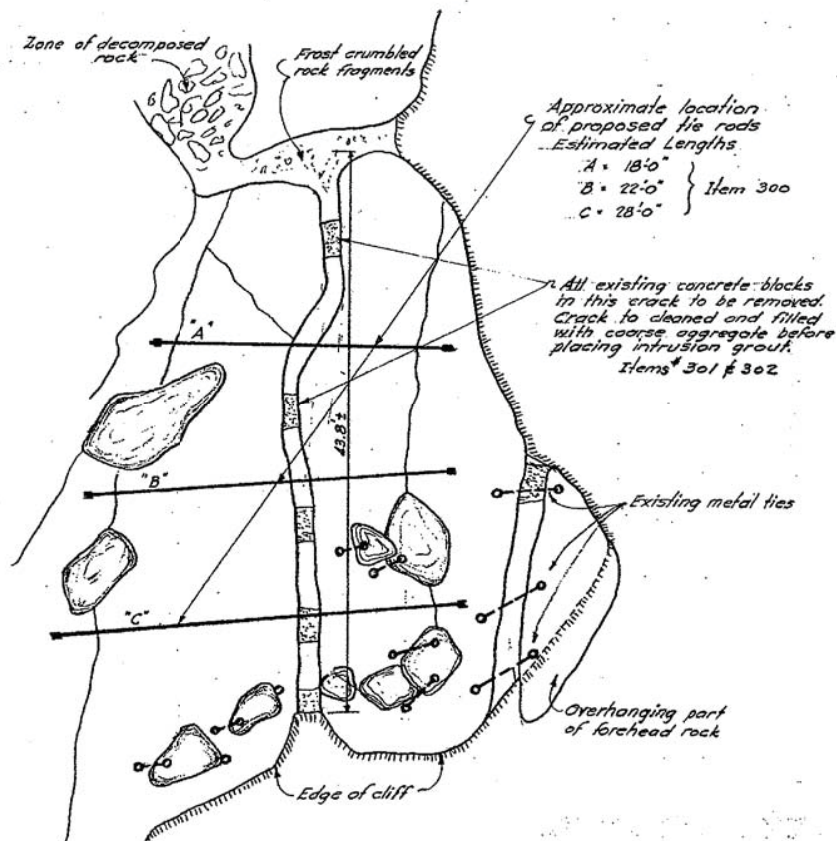
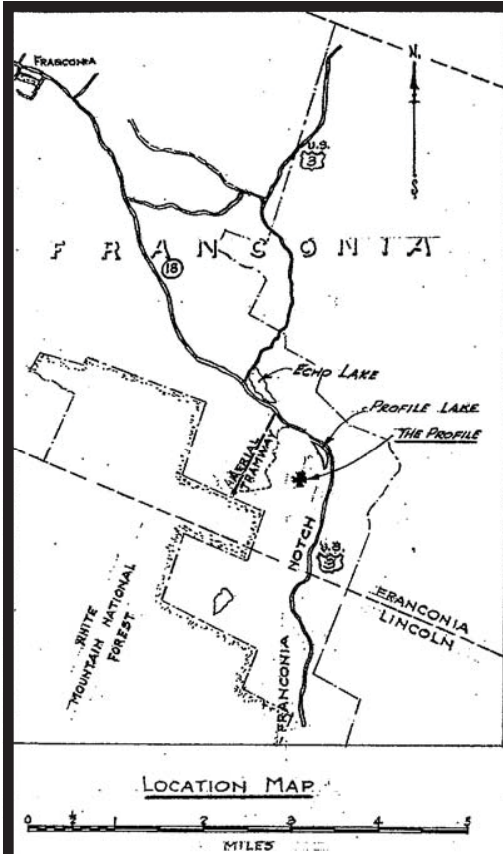
GENERAL PLAN & ELEVATION

DESIGNED BY: <u>E.J.P.</u>	DATE: <u>1-58</u>	CHECKED BY: <u>H.A.S.</u>	DATE: <u>3-58</u>
DRAWN BY: <u>E.J.P.</u>	DATE: <u>1-58</u>	CHECKED BY: <u>H.A.S.</u>	DATE: <u>3-58</u>
TRACED BY: <u>E.J.P.</u>	DATE: <u>1-58</u>	CHECKED BY: <u>E.A.H.</u>	DATE: <u>6-58</u>

QUANTITIES: H.A.S. 6/58 FILE NUMBER: 3-2-74

NO.	DESCRIPTION	BY	DATE

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.				



TIE ROD ASSEMBLY

SCALE 3"=1'-0"

TIE ROD	"L"	"X"
"A"	6'-0"	
"B"	7'-0"	
"C"	9'-0"	

Furnish one Standard Pin 3/4"x0-54" with 3/8" cotter pin with each clevis

ESTIMATED QUANTITIES

ITEM No.	DESCRIPTION	QUANTITY
300	ANCHORAGES	4.5
301	COARSE AGGREGATE	12 cu yds
302	INTRUSION GROUT	200 c. ft.

GENERAL NOTES:-

Specifications:-

A.R.S.H.O. 1953

N.H.D.P.W. & H.W.S. 1954

For further information see Special Provisions attached to Proposal.

APPROVED: *[Signature]* DATE 11/15/52

BRIDGE ENGINEER

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

TOWN FRANCONIA BRIDGE NO. ---

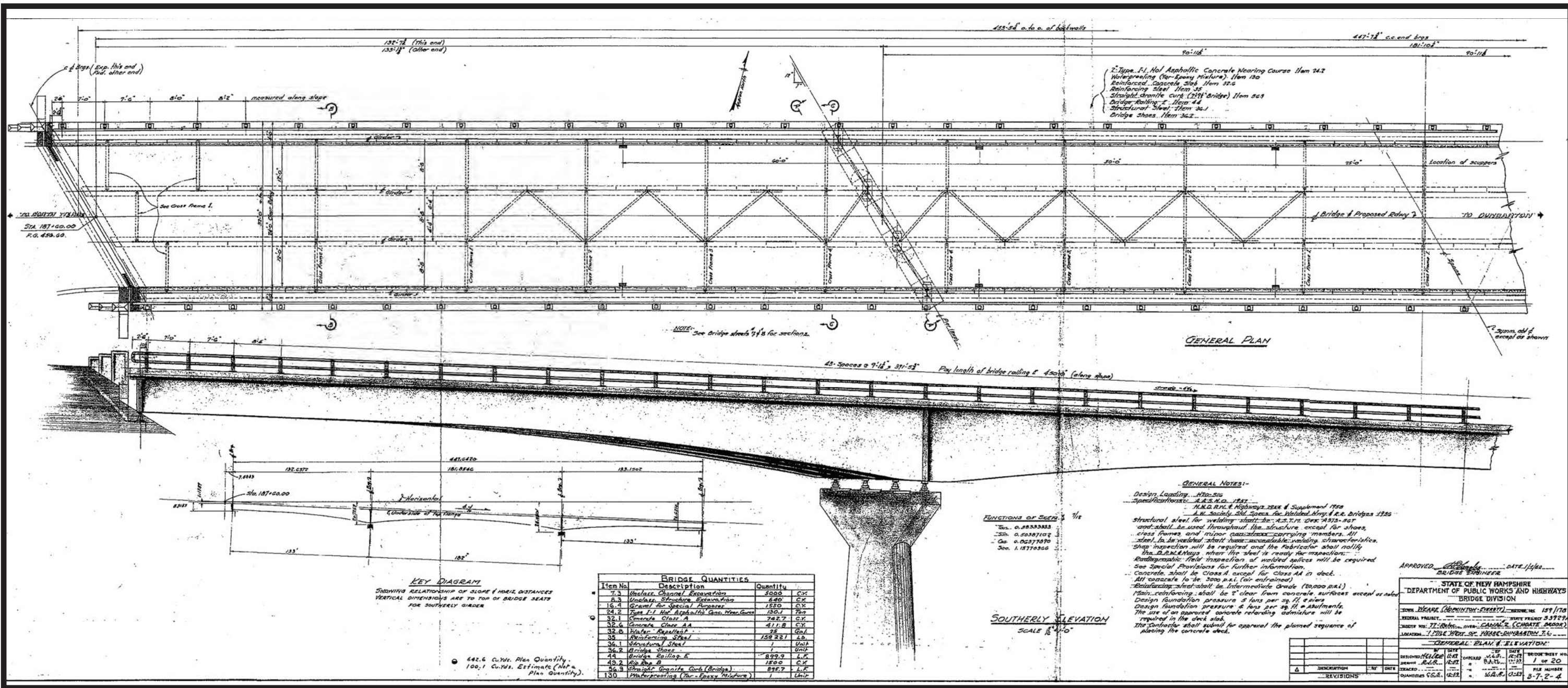
FEDERAL PROJECT --- STATE PROJECT 12-19

ROUTE NO. U.S. 3 ON PROFILE MT.

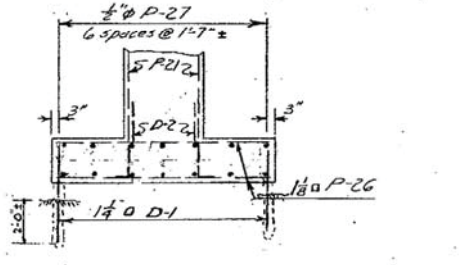
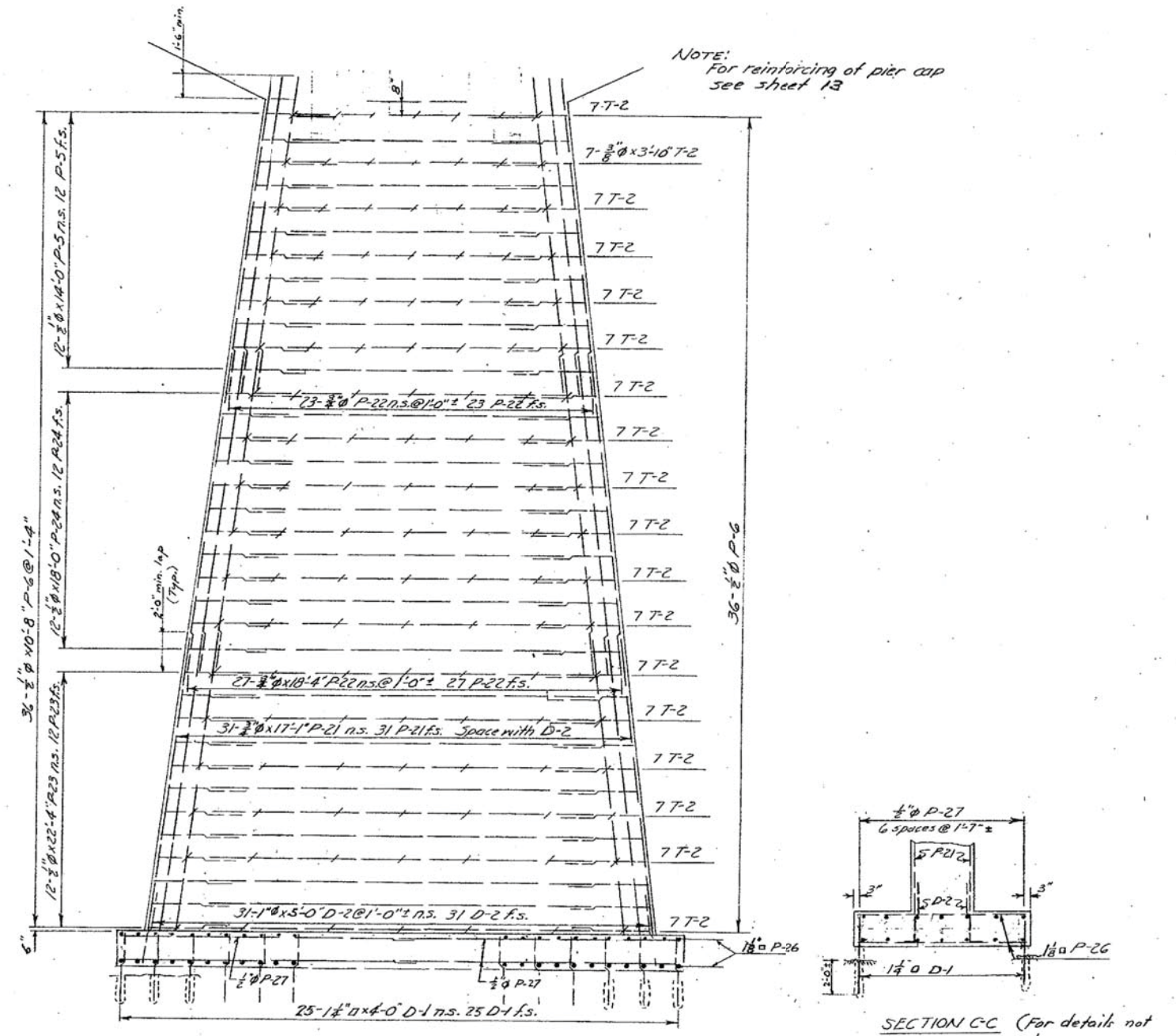
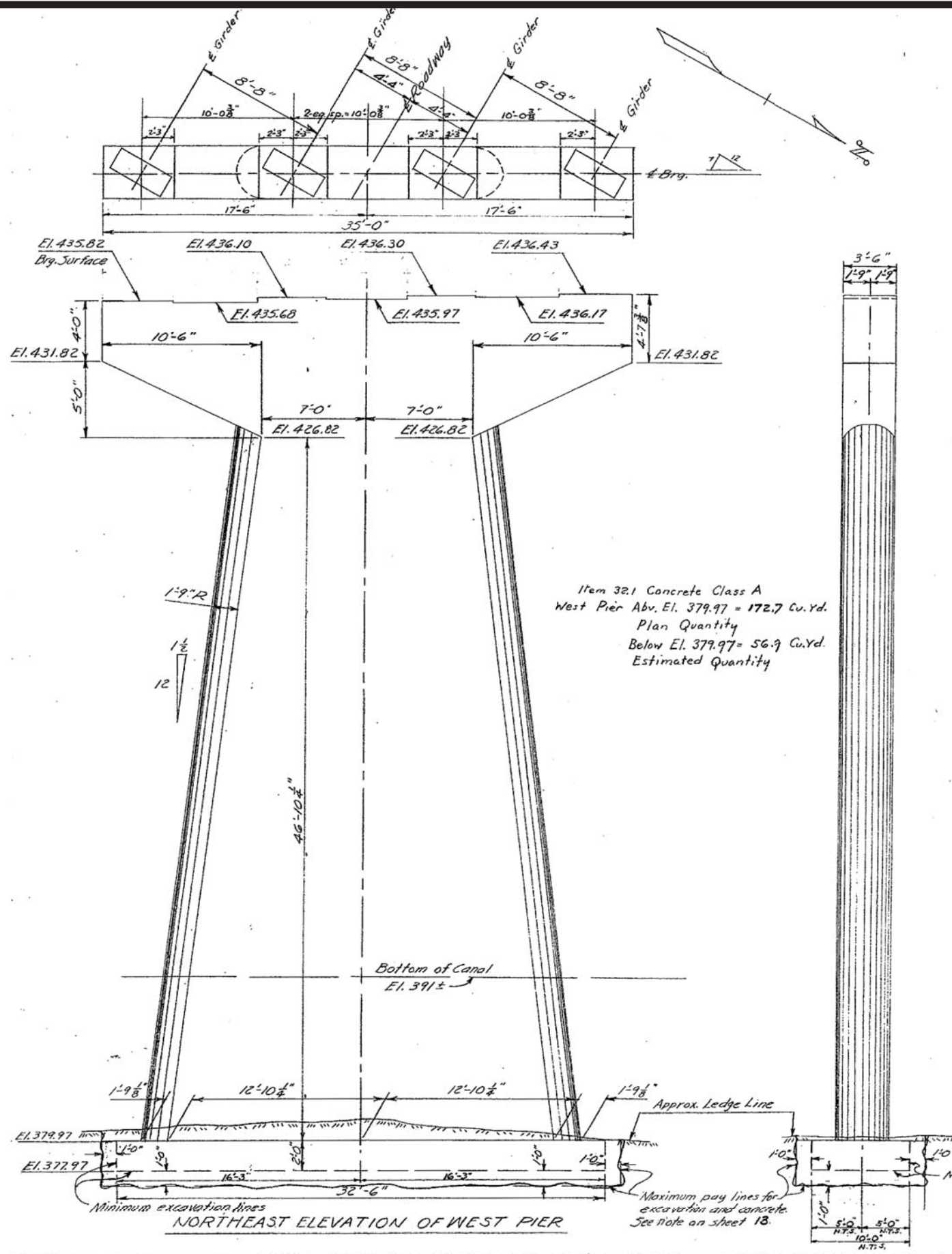
LOCATION 1/2 MI. W. OF U.S. 3 IN FRANCONIA NOTCH

PLAN & DETAILS

DESIGNED	DATE	CHECKED	BY	DATE	BRIDGE SHEET NO.
<i>[Signature]</i>	3/52				1 OF 2
<i>[Signature]</i>	3/52				
TRUCKED		CHECKED			FILE NUMBER



FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N. H.				



NOTE: Drill and grout dowels D-1 (Subsidiary).

STATE OF NEW HAMPSHIRE
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BRIDGE DIVISION

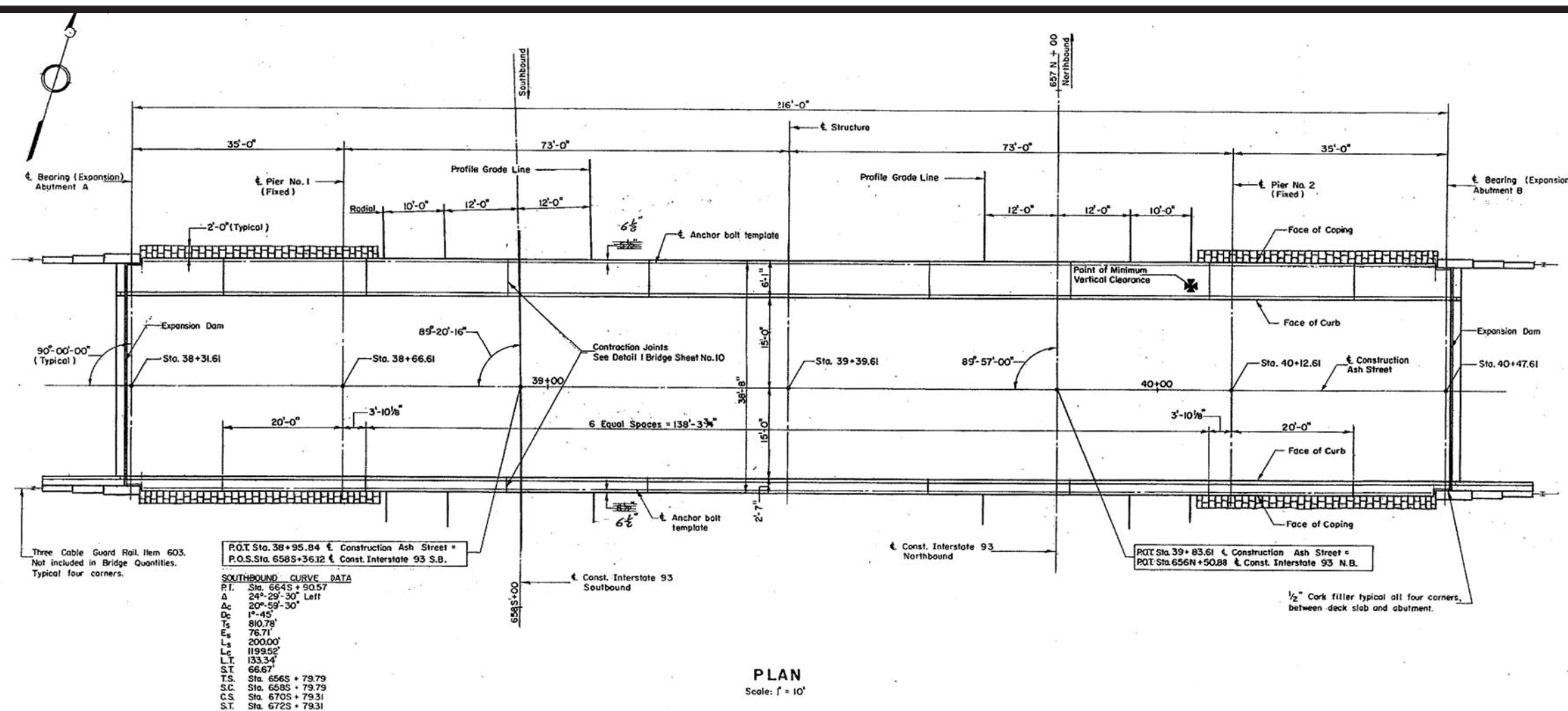
TOWN: WEARE (HOPKINTON-EVERETT) BRIDGE NO. 159/178
FEDERAL PROJECT: STATE PROJECT: 53929A
ROUTE NO. NH 77 (Reloc. OVER CANAL NO 2 (Choate Br.))
LOCATION: 1 Mile West of Weare-Dunbarton Town Line

DESIGNED BY	DATE	CHECKED BY	DATE	BRIDGE SHEET NO.
J.S.B.	12/51	J.S.B.	12/51	12 OF 20
J.D.B.	12/51	J.D.B.	12/51	
FILE NUMBER	3-7-2-4			

Sheet scale: 1/4" = 1'-0"

REVISIONS	DESCRIPTION	BY	DATE
1	Bearing Surface Blot	J.S.B.	3/60
2			
3			

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	N.H.	193-15112		8	97

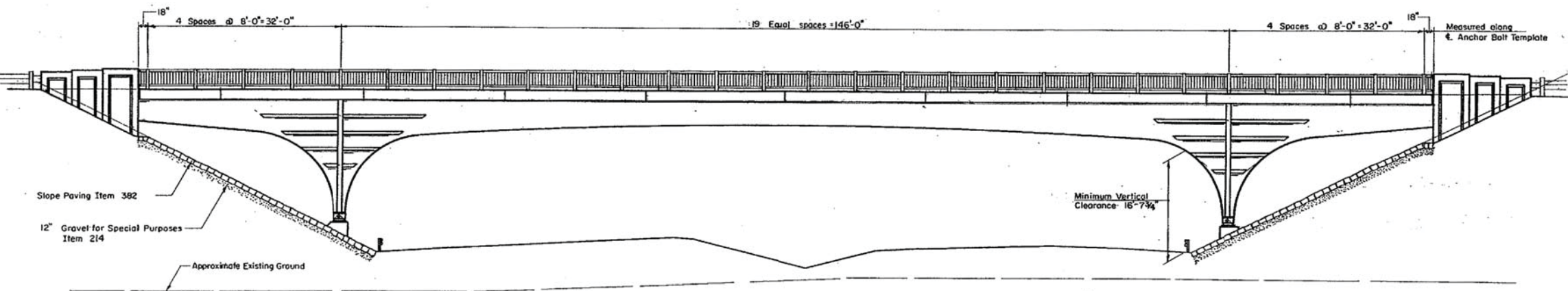


P.O.T. Sta. 38+95.84 & Construction Ash Street =
P.O.S. Sta. 658S+36.12 & Const. Interstate 93 S.B.

SOUTHBOUND CURVE DATA

P.T.	Sta. 664S+90.57
Δ	24°-29'-30" Left
Ac	20°-59'-30"
Dc	1°-45'
Ts	810.79'
Es	76.71'
Ls	2000.00'
Lc	1199.52'
L.T.	133.34'
S.T.	66.67'
T.S.	Sta. 656S+79.79
S.C.	Sta. 658S+79.79
C.S.	Sta. 670S+79.31
S.T.	Sta. 672S+79.31

PLAN
Scale: 1" = 10'



SOUTHERLY ELEVATION
Scale: 1" = 10'

CONCRETE NOTES

The concrete in the deck slab shall be Concrete Bridge Deck Class AA and will be paid for as Item 327. All other concrete shall be Class A. It will be paid for as Item 322.1 (Footings) and as Item 322.2 (Above Footings).

A suitable concrete retarder shall be used in the deck concrete, and the deck shall be placed in one continuous operation.

SUMMARY OF BRIDGE QUANTITIES		
ITEM NO.	DESCRIPTION	QUANTITY/UNIT
171	Earth Structure Excavation	312 C.Y.
172	Ledge Structure Excavation	64 C.Y.
214	Gravel for Special Purposes	138 C.Y.
259	Type 1 Hot Asphaltic Concrete Wearing Course for Bridges	87 Tons
310.1	Pile Driving Equipment	1 Unit
310.2	Pile Loading Tests	2 Each
316	Furnishing Steel Bearing Piles	50,400 Lbs.
317	Driving Steel Bearing Piles	50,400 Lbs.
319	Pile Slices	4 Each
322.1	Concrete Class A (Footings)	342 C.Y.
322.2	Concrete Class A (Above Footings)	305 C.Y.
327	Concrete Bridge Deck	1 Unit
333	Membrane Waterproofing	794 S.Y.
334	Water Repellent	56 Gal.
344	Reinforcing Steel	92,940 Lbs.
347	Shear Connectors	1 Unit
351.1	Structural Steel	1 Unit
355	Waterproofing with Epoxy Mixtures	1 Unit
352	Bridge Shoes	1 Unit
362	Sealer for Expansion Joints in Bridges	80 Lbs.
363.6	Bridge Railing F (Aluminum)	425 L.F.
382	Slope Paving	3,700 S.F.
715	Straight Granite Curb (Bridge)	462 L.F.

BRIDGE LIST OF SHEETS	
SHEET NO.	DESCRIPTION
1	General Plan & Elevation
2	Boring Log & Profiles
3	Abutment A
4	Abutment B
5	Abutment A & B Reinforcement
6	Piers
7	Framing Plan
8	Deck and Pier Reinforcement
9	Frame Elevations
10	Typical Cross Section
11	Bearing Details & Expansion Dams
12	Steel Details
13	Railings, Moment and Shear Table

GENERAL NOTES

- Design Loading: H20-44, 16K wheel on deck slab.
- Specifications: AASHTO 1957 N.H.D.P.W. & H. 1960
- Design Stresses: Structural Steel fs = 18,000 psi
Reinforcing Steel fs = 20,000 psi
Concrete (n=10) fc = 1,200 psi
- All reinforcing bars shall have deformations conforming to A.S.T.M. Designation A 305.
- Subsidiary Items:
 - Hanger linkage at abutment bearings
 - Grillage Plate
 - Grillage Beam
 - Anchor rods in Pier Footings
 - 1/2" Cork Filler of corners between deck slab and abutment
 - Guard Rail Anchor Rods
 - Concrete retarder

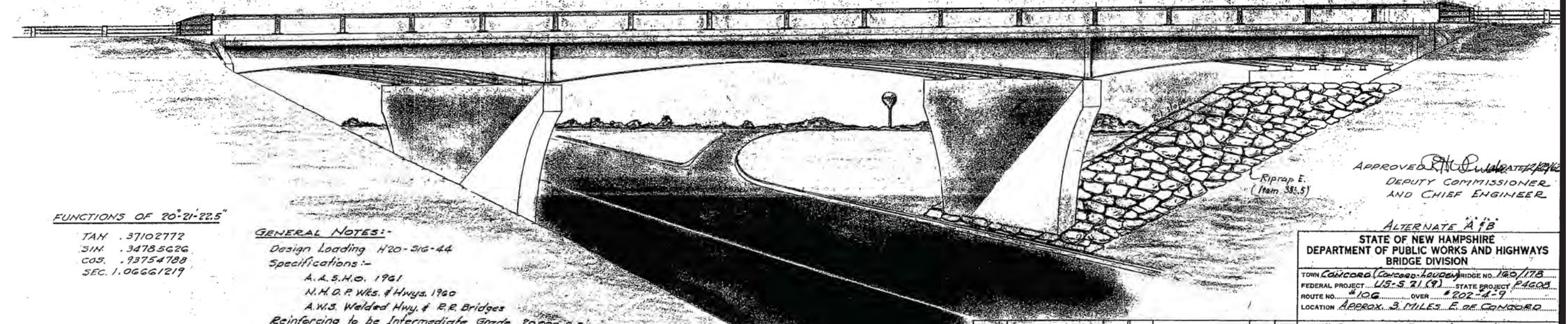
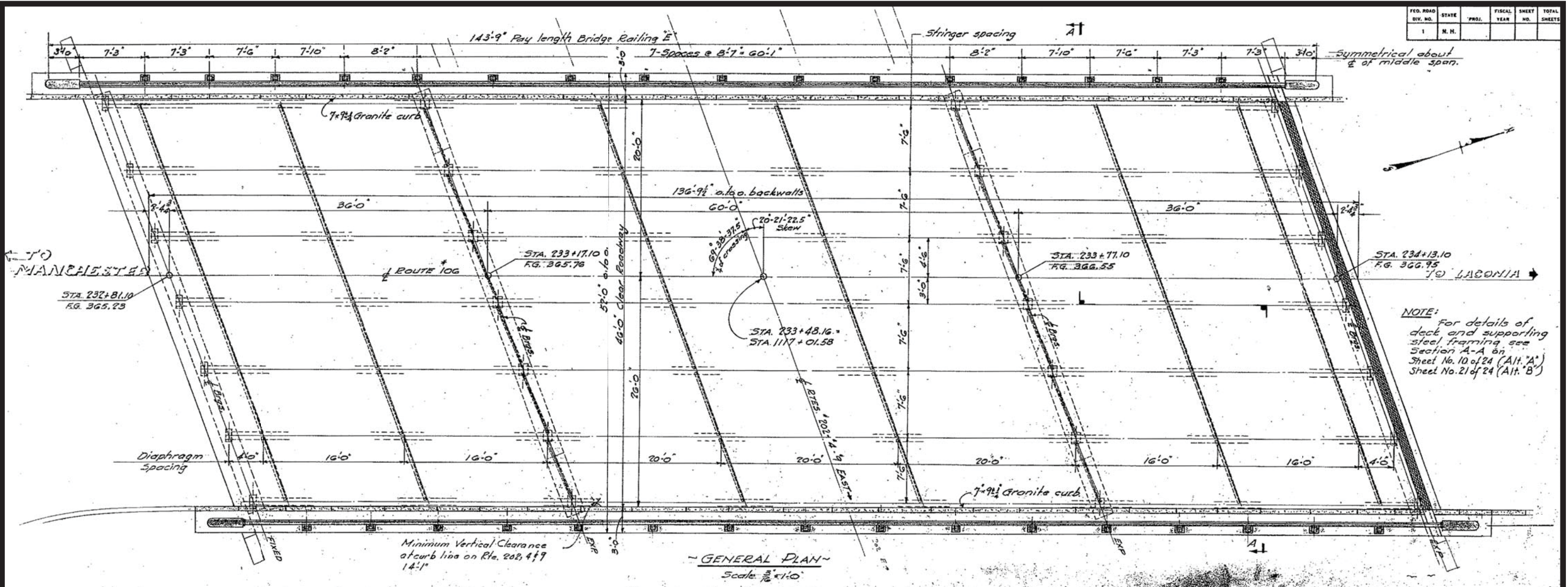
APPROVED _____ DATE _____
Deputy Commissioner and Chief Engineer



APPROVED *John E. Clarke* DATE *4/9/61*
THE CLARKSON ENGINEERING CO., INC.
BOSTON MASSACHUSETTS

STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	
TOWN LONDONDERRY	BRIDGE NO. 140/120
FEDERAL PROJECT 193-15112	STATE PROJECT P-4201+6
ASH STREET OVER INTERSTATE 93	
GENERAL PLAN AND ELEVATION	
DESIGNED BY F.R.T. 1/61	CHECKED BY J.L.M. 3/61
DRAWN BY E.K. 1/61	CHECKED BY F.R.T. 3/61
TRACED BY E.K. 2/61	CHECKED BY J.L.M. 3/61
QUANTITIES BY E.G.R. 2/61	CHECKED BY W.M. 3/61
BRIDGE SHEET NO. 1 OF 13	
FILE NUMBER 15-2-1	

FED. ROAD DIV. NO.	STATE	PROJ.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.H.				



FUNCTIONS OF 20'-21'-22.5"

TAN .37102772
SIN .34785626
COS .93754788
SEC. 1.06661219

GENERAL NOTES:-
Design Loading H20-S16-44
Specifications:-
A.A.S.H.O. 1961
N.H. D.P. Wks. & Hwys. 1960
A.W.S. Welded Hwy. & R.R. Bridges
Reinforcing to be Intermediate Grade 20,000 p.s.i.
Main reinforcing to be 2" clear from concrete surfaces except as noted
Design foundation pressure 3 tons per sq. ft.
Structural Steel A-36 $f_y = 20,000$ p.s.i.

ELEVATION
Structural Steel Shown Alt. A

DATE OF REVISION	PURPOSE	BY	DESCRIPTION	DATE

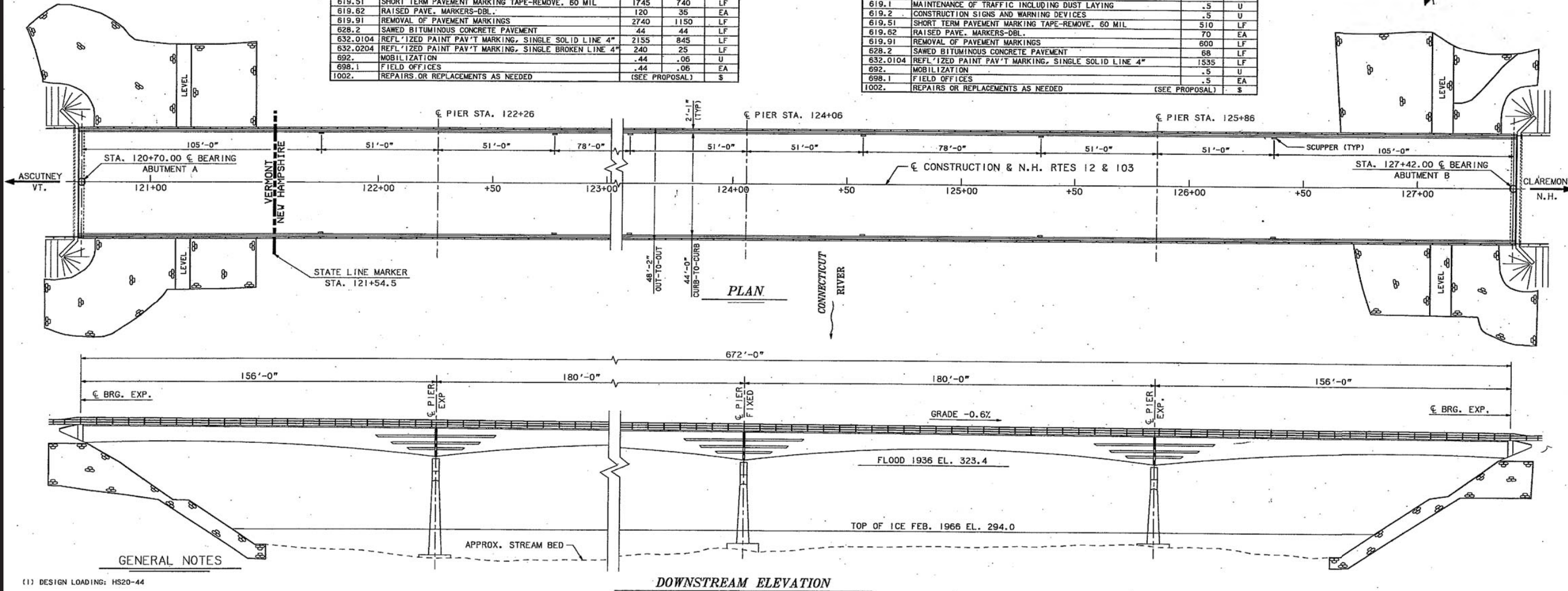
DESIGNED BY: R.P.B.	DATE: 7/62	CHECKED BY: T.S.	DATE: 10-62	BRIDGE SHEET NO. 1 OF 24
DRAWN BY: R.P.B.	DATE: 7/62	CHECKED BY: H.B.S.	DATE: 11-62	FILE NUMBER
QUANTITIES BY: R.A.B.	DATE: 7/62	CHECKED BY: T.S.	DATE: 12-62	
REVISIONS				3-9-1-B

**BRIDGE QUANTITIES FOR BR. NO. 065/134
(OVER CONNECTICUT RIVER)**

ITEM NO.	ITEM DESCRIPTION	QUANTITY		UNIT
		N.H.	VT.	
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	240	100	TON
403.911	HOT BIT. BRIDGE PAVEMENT, 1" BASE CRSE. W/POLY FIBER	164	24	TON
417.	COLD PLANING OF BITUMINOUS SURFACES	490	490	SY
511.0001	CONCRETE BRIDGE DECK PAVEMENT REMOVAL	.87	.13	U
511.02	PREP. FOR PARTIAL DEPTH CONCRETE BRIDGE DECK REPAIRS	287	43	SY
512.01	PREPARATION FOR CONCRETE REPAIRS	20	20	SY
520.01	CONCRETE CLASS AA	40	10	CY
534.1	WATER REPELLENT WITH LINSEED OIL	17	3	GAL
538.1	BARRIER MEMBRANE	2860	427	SY
552.2	REHABILITATION OF EXPANSION BRIDGE SHOES	6	6	EA
565.73	BRIDGE APPROACH RAIL F	68	0	LF
565.81	REHABILITATION OF BRIDGE APPROACH RAIL	0	20	LF
604.4	RECONSTRUCTING CATCH BASINS & DROP INLETS	4	0	LF
606.140	BEAM GUARD RAIL (STANDARD SECTION) GR-140	108	60	LF
606.143	BEAM GUARD RAIL INCLUDING TERMINAL SECTIONS GR-143	0	25	LF
606.86	TYPE J ANCHORAGES FOR BEAM GUARD RAIL	0	1	EA
609.5	RESET GRANITE CURB	60	0	LF
616.101	TRAFFIC SIGNALS	.5	.5	U
618.61	UNIFORMED OFFICERS WITH VEHICLE	250	0	HR
618.7	FLAGGERS	550	800	HR
619.1	MAINTENANCE OF TRAFFIC INCLUDING DUST LAYING	.44	.06	U
619.2	CONSTRUCTION SIGNS AND WARNING DEVICES	.25	.25	U
619.51	SHORT TERM PAVEMENT MARKING TAPE-REMOVE. 60 MIL	1745	740	LF
619.62	RAISED PAVE. MARKERS-DBL.	120	35	EA
619.91	REMOVAL OF PAVEMENT MARKINGS	2740	1150	LF
628.2	SAWED BITUMINOUS CONCRETE PAVEMENT	.44	.44	LF
632.0104	REFL'IZED PAINT PAV'T MARKING, SINGLE SOLID LINE 4"	2155	845	LF
632.0204	REFL'IZED PAINT PAV'T MARKING, SINGLE BROKEN LINE 4"	240	25	LF
692.	MOBILIZATION	.44	.06	U
698.1	FIELD OFFICES	.44	.06	EA
1002.	REPAIRS OR REPLACEMENTS AS NEEDED		(SEE PROPOSAL)	\$

**BRIDGE QUANTITIES FOR BR. NO. 072/127
(OVER SUGAR RIVER)**

ITEM NO.	ITEM DESCRIPTION	QUANTITY		UNIT
		N.H.	VT.	
403.11	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	22	22	TON
417.	COLD PLANING OF BITUMINOUS SURFACES	240	240	SY
511.0002	CONCRETE BRIDGE DECK PAVEMENT REMOVAL	1	1	U
511.01	PREPARATION FOR CONCRETE BRIDGE DECK OVERLAY	875	875	SY
511.02	PREPARATION FOR PARTIAL DEPTH CONCRETE BRIDGE DECK REPAIRS	130	130	SY
511.03	PREPARATION FOR FULL DEPTH CONCRETE BRIDGE DECK REPAIRS	43	43	SY
512.01	PREPARATION FOR CONCRETE REPAIRS	4	4	SY
520.01	CONCRETE CLASS AA	24	24	CY
520.86	CONCRETE BRIDGE DECK INCLUDING MICROSILICA	1	1	U
534.1	WATER REPELLENT WITH LINSEED OIL	10	10	GAL
550.1	STRUCTURAL STEEL (EST. 1132 LBS.)	1	1	U
565.72	BRIDGE APPROACH RAIL F	100	100	LF
566.	ELASTOMERIC JOINT SEAL	106	106	LF
604.45	ADJUSTING CB AND DI GRATES AND FRAMES SET BY OTHERS	2	2	EA
606.140	BEAM GUARD RAIL (STANDARD SECTION) GR-140	195	195	LF
606.143	BEAM GUARD RAIL INCLUDING TERMINAL SECTIONS GR-143	25	25	LF
606.146S1	BEAM GUARD RAIL (TERMINAL UNIT TYPE F-1, MODIFIED) GR-146S	1	1	U
606.84	BLOCK ANCHORAGES FOR CABLE GUARD RAIL	1	1	EA
606.86	TYPE J ANCHORAGES FOR BEAM GUARD RAIL	1	1	EA
609.5	RESET GRANITE CURB	80	80	LF
616.102	TRAFFIC SIGNALS	1	1	U
618.61	UNIFORMED OFFICERS WITH VEHICLE	250	250	HR
618.7	FLAGGERS	1700	1700	HR
619.1	MAINTENANCE OF TRAFFIC INCLUDING DUST LAYING	.5	.5	U
619.2	CONSTRUCTION SIGNS AND WARNING DEVICES	.5	.5	U
619.51	SHORT TERM PAVEMENT MARKING TAPE-REMOVE. 60 MIL	510	510	LF
619.62	RAISED PAVE. MARKERS-DBL.	70	70	EA
619.91	REMOVAL OF PAVEMENT MARKINGS	600	600	LF
628.2	SAWED BITUMINOUS CONCRETE PAVEMENT	.68	.68	LF
632.0104	REFL'IZED PAINT PAV'T MARKING, SINGLE SOLID LINE 4"	1535	1535	LF
692.	MOBILIZATION	.5	.5	U
698.1	FIELD OFFICES	.5	.5	EA
1002.	REPAIRS OR REPLACEMENTS AS NEEDED		(SEE PROPOSAL)	\$



- GENERAL NOTES**
- DESIGN LOADING: HS20-44
 - SPECIFICATIONS: AASHTO 1989 WITH INTERIMS & NHDOT 1983 AMENDED.
 - DIMENSIONS & ELEVATIONS: THE CONTRACTOR SHOULD BE AWARE THAT ALL EXISTING STRUCTURE DIMENSIONS & ELEVATIONS SHOWN ON THESE PLANS ARE TAKEN FROM THE ORIGINAL BRIDGE PLANS & DO NOT NECESSARILY AGREE WITH "AS BUILT" DIMENSIONS OR ELEVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF THE EXISTING STRUCTURE & SHOULD BE PREPARED TO MAKE ADJUSTMENTS AS REQUIRED TO PROPERLY REHABILITATE THE BRIDGE.
 - EXISTING BRIDGE PLANS MAY BE OBTAINED FROM NHDOT, BUREAU OF BRIDGE DESIGN.
 - EXISTING CONCRETE: BRIDGE DECK = 4,000 psi
ABUTMENTS & FOOTINGS = 3,000 psi
 - STATIONING ON RTE. 12 & 103 HAS BEEN INCREASED BY 10,000 FEET FROM ORIGINAL PLANS, TO AVOID CONFUSION WITH ROUTE 12A STATIONING.

- (7) REHABILITATION WORK: BRIDGE 065/134
- REMOVE & REPLACE MEMBRANE & PAVEMENT
 - PARTIAL DEPTH CONCRETE DECK REPAIRS AS REQUIRED
 - COLD PLANE AND REPAVE APPROACHES
 - REMOVE STEEL END POSTS ON N.H. END
 - INSTALL NEW BRIDGE APPROACH RAIL ON N.H. END
 - REHABILITATE BRIDGE APPROACH RAIL ON VT. END
 - RESET ABUTMENT BRIDGE SHOES AS REQUIRED
 - REPAIR SUBSTRUCTURE CONCRETE AS REQUIRED

- (8) REHABILITATION WORK: BRIDGE 072/127
- REMOVE MEMBRANE AND PAVEMENT
 - SCARIFY ENTIRE DECK SURFACE
 - PARTIAL & FULL DEPTH DECK REPAIRS AS REQUIRED
 - POUR NEW 24" CONCRETE OVERLAY WITH MICROSILICA
 - REPLACE COMPRESSION JOINT SEALS (EACH ABUTMENT)
 - COLD PLANE AND REPAVE APPROACHES AS DIRECTED
 - ADJUST D.I.'s AS REQUIRED (NORTH APPROACH)
 - REMOVE STEEL END POSTS (EACH ABUTMENT)
 - INSTALL NEW BRIDGE APPROACH RAIL (EACH ABUTMENT)
 - REMOVE AND RESET BEAM GUARD RAIL AS SHOWN ON PLANS
 - REPAIR SUBSTRUCTURE CONCRETE AS REQUIRED
 - REPAIR DAMAGED PIPE UNDER ITEM 1002
 - CLEAN AND PAINT SCUPPERS AS DIRECTED UNDER ITEM 1002

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION • BUREAU OF BRIDGE DESIGN									
TOWN	CLAREMONT	BRIDGE NO.	065/134	STATE PROJECT	11165				
LOCATION	N.H. ROUTES 12 & 103 OVER CONNECTICUT RIVER								
GENERAL PLAN AND ELEVATION									
DESIGNED		RJP & TS	1/67	CHECKED		REVISIONS AFTER PROPOSAL		DATE	1 OF 11
DRAWN		RJP & TS	1/67	CHECKED					FILE NUMBER
TRACED		CAC	9/89	CHECKED	PJP	6/90	FEDERAL PROJECT NO.	SHEET NO.	3-11-2-4
QUANTITIES		CAC	1/90	CHECKED	PJP	6/90	DE-200(803)	2	TOTAL SHEETS
									15

WINDOW NAME	DRAWING NAME	*PCB FILE NAME	SHEET SCALE
GENPLAN	GENPLAN	SITEPLAN.FGB	1" = 20'-0"