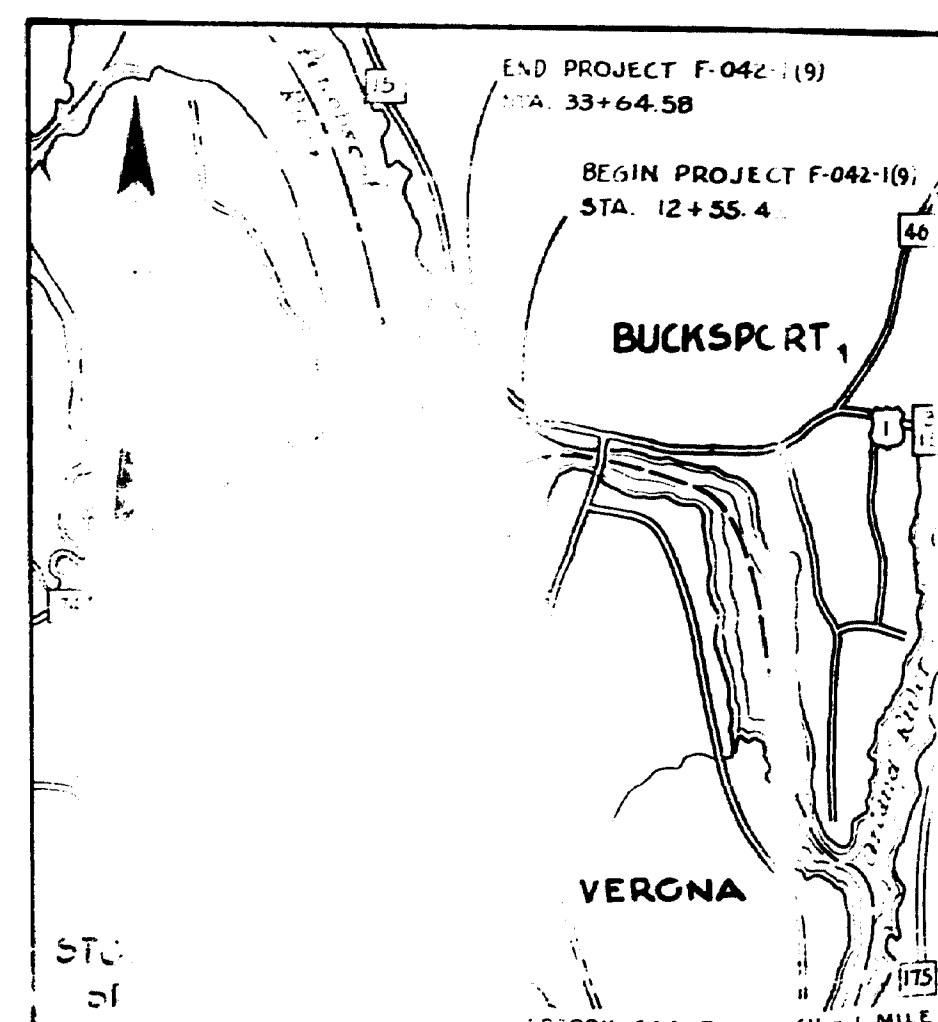


MAINE
STATE HIGHWAY COMMISSION
BRIDGE DIVISION AUGUSTA, MAINE

RECONSTRUCTION OF CONCRETE DECK AND WIDENING OF WEST APPROACH WALDO - HANCOCK BRIDGE

OVER
PENOBSCOT RIVER
BETWEEN
PROSPECT, WALDO COUNTY
AND
VERONA, HANCOCK COUNTY

FEDERAL PROJECT No. F-0 2-1 9)
LENGTH OF PROJECT 0.399 MILE



MAP

TRAFFIC

1961 A.D.T.	2610
1981 A.D.T.	3655
D.H.V.	548
T	10%
D.	65%

APPROVED:
MAINE STATE HIGHWAY COMMISSION

David W. Deane CHAIRMAN
Leon Williams
Charles J. [Signature] CHIEF ENGINEER

DESIGNED

G. H. Gronquist
STEINMAN, BOYNT, N.
GRONQUIST & LONDON
CONSULTING ENGINEERS
NEW YORK

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION 1

APPROVED:

DIVISION ENGINEER DATE

86-101

SPECIFICATIONS

Construction - State of Maine State Highway Commission Standard Specification for Highways and Bridges, Revision of January, 1956 as amended by the Supplemental Specifications and the Special Provisions of the American Association of State Highway Officials, 1957 Standard Specifications for Highway Construction, Division I.

Loading - 44.

Bar Reinforcement - Concrete Grade, Allowable 20,000 ψ / s -

Concrete - 44.

Unless otherwise specified, concrete cover over bars shall be

and walls

and footings

MATERIALS

Cement - Type II or II with 6% entrained air, per Reinforcement, with 5% entrained air, per Standard Spec. Structural Concrete, ASTM A7

Structural Steel - Welding - ASTM A373

Rivet Steel - ASTM A325

Steel Reinforcement - Section 703 of the Standard Specifications, as amended.

Brackets and other accessories - Specifications

CHAMFER

All exposed corners shall be chamfered except

NOTES

Bottom of Bridge Deck at Existing Girders or at Existing Abutment shall be at Elev. 123.30.

EXISTING ROCK LINES

Ground line on sheet shall be considered as representing the approximate existing rock elevations. Rock or Rock lines shall be considered as representing the approximate existing Rock elevations.

ESTIMATED QUANTITIES

ITEM No.	ITEM	UNIT	APPROXIMATE QUANTITIES
204-12	Structural Earth Excavation Abutments and Retaining Walls	C.Y.	160
204-13	Structural Rock Excavation Abutments and Retaining Walls	C.Y.	15
205-10	Gravel Borrow	C.Y.	2,200
308-6	Overhaul, P.C. Measure	Y.M.	6,600
404-28	Bituminous Concrete Surface Course Type A	Tons	454
701-33	Portland Cement Concrete Abutments and Retaining Walls	C.Y.	395
701-39	Portland Cement Concrete Superstructure Slabs	C.Y.	6
701-40	Portland Cement Concrete, Roadway and Sidewalk Slabs on Steel Bridges	C.Y.	150
701-47	Portland Cement	Bbls	2,540
702-103	Structural Steel Fabricated & Delivered	Lbs	80,000
702-104	Structural Steel, Erection	Lbs	80,000
705-13	Reinforcing Steel, Delivered	Lbs	353,955
705-14	Reinforcing Steel, Placing	Lbs	353,955
705-17	Shear Connectors	L.S.	15
801-7	Removal of Existing Superstructure Steel not reused	L.S.	15*
801-7a	Removal of Existing Concrete Deck	L.S.	15
801-7b	Altering Existing Abutments	L.S.	15
801-7c	Removal of Existing Superstructure Steel to be reused	L.S.	15*
802-11	Temporary Timber Deck	Each	2
807-9	Membrane Waterproofing	S.Y.	5,531
917-6	Traffic Officers	M.Hr.	10,000
927-1	Electrical Work	L.S.	15
937-1	Miscellaneous Repairs	L.S.	15

* Approximate Quantities of Shear connectors - 4,000 units

* The approximate Quantities for the items, Removal of Existing Superstructure Steel not used and Removal of Existing Superstructure Steel to be Reused, are 8,000 lbs and 22,500 lbs respectively.

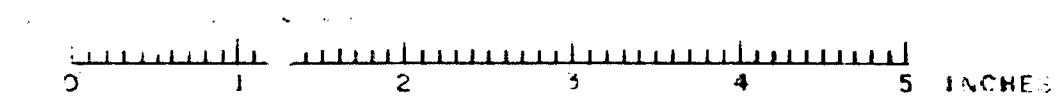
INDEX OF SHEETS

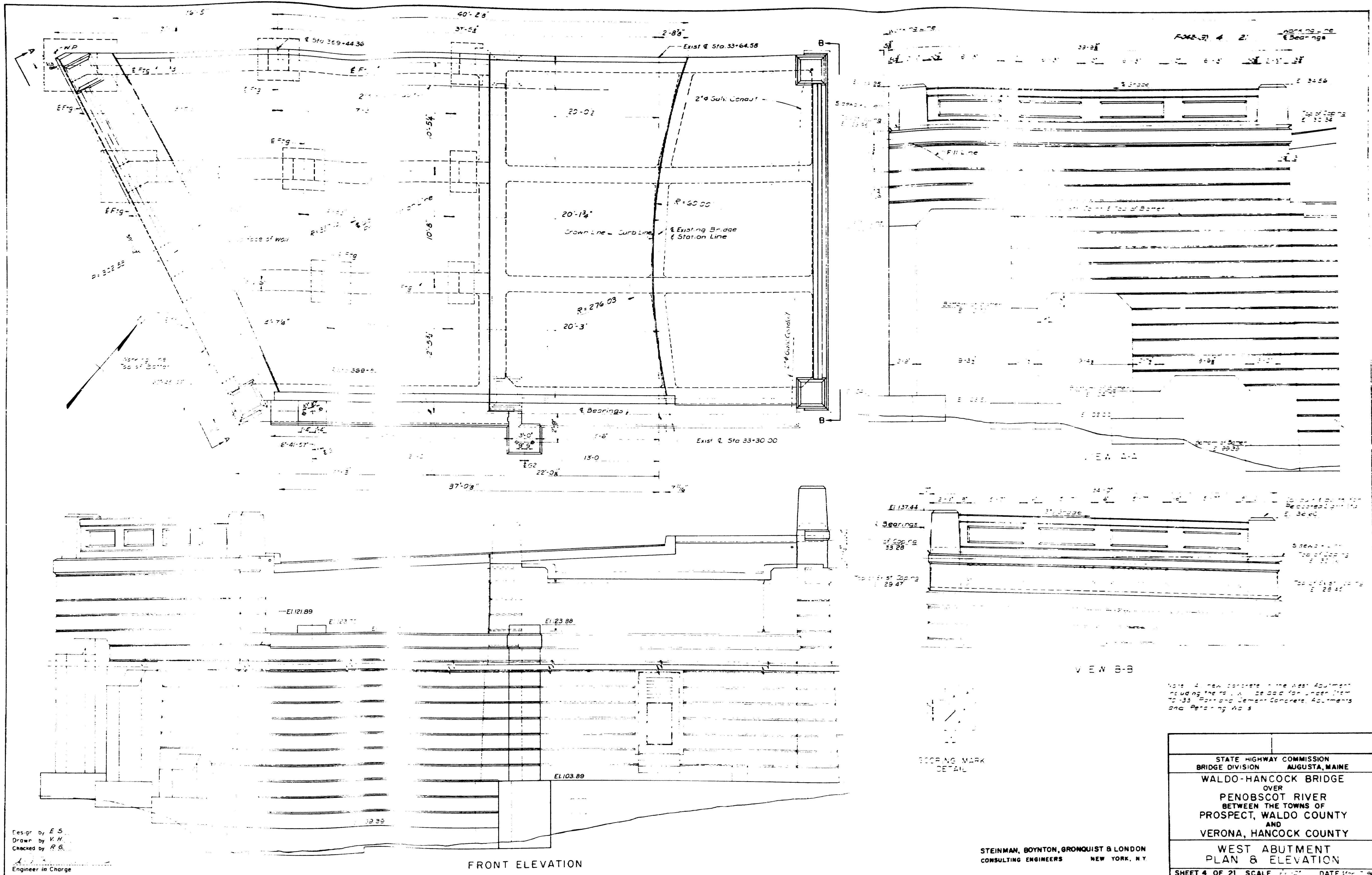
SHEET No.	TITLE
1	TITLE SHEET
2	INDEX AND ESTIMATE OF QUANTITIES
3	GENERAL PLAN AND ELEVATION
4	WEST ABUTMENT PLAN AND ELEVATION
5-7	WEST ABUTMENT REINFORCEMENT DETAILS
8	WEST ABUTMENT BAR LIST
9	EAST ABUTMENT DETAILS
10	VIADUCT SPANS BENT 10 TO EAST ABUTMENT
11	CROSS SECTION SUSPENDED SPANS
12	EXPANSION JOINT AT TOWERS
13	FRAMING PLAN WEST APPROACH
14	CROSS-SECTIONS WEST APPROACH
15-16	DETAILS WEST APPROACH
17	CONCRETE DECK VIADUCT SPANS
18	CONCRETE DECK SUSPENDED SPANS
19-20	CONCRETE DECK WEST APPROACH
21	MISCELLANEOUS DETAILS

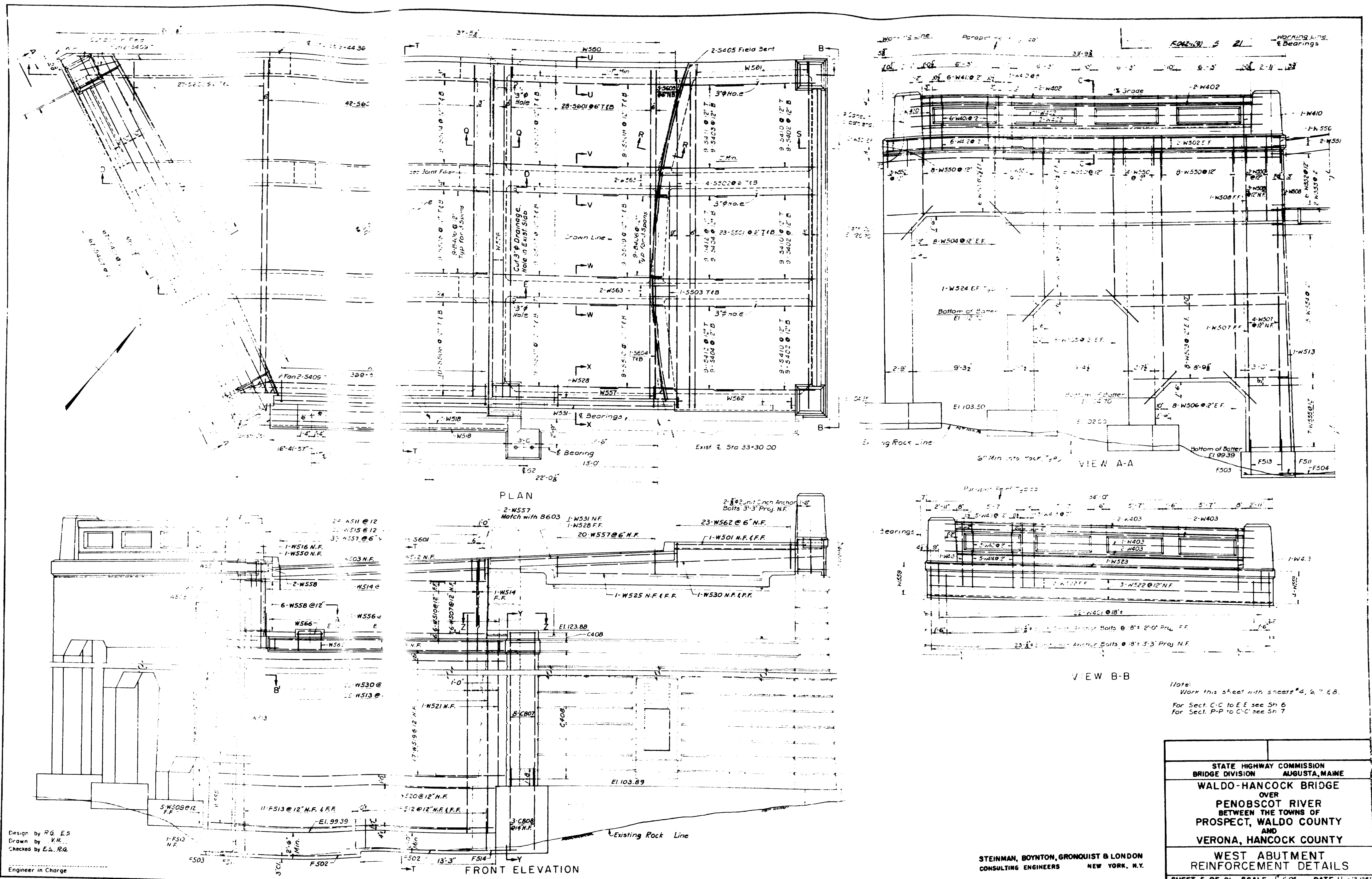
STEINMAN, BOYNTON, GRONQUIST & LONDON
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STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE	
OVER	
PENOBSCOT RIVER	
BETWEEN THE TOWNS OF	
PROSPECT, WALDO COUNTY	
AND	
VERONA, HANCOCK COUNTY	
INDEX AND	
ESTIMATE OF QUANTITIES	
SHEET 2 OF 21	SCALE No Scale DATE Mar 17, 1961

86-102





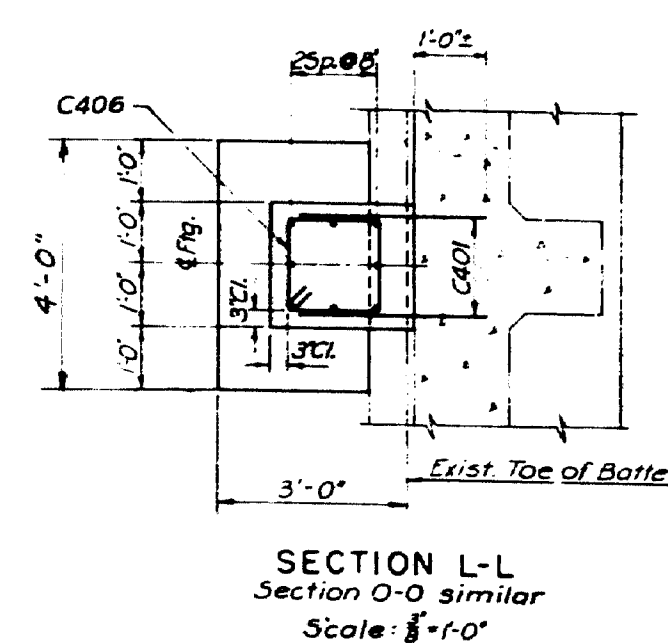
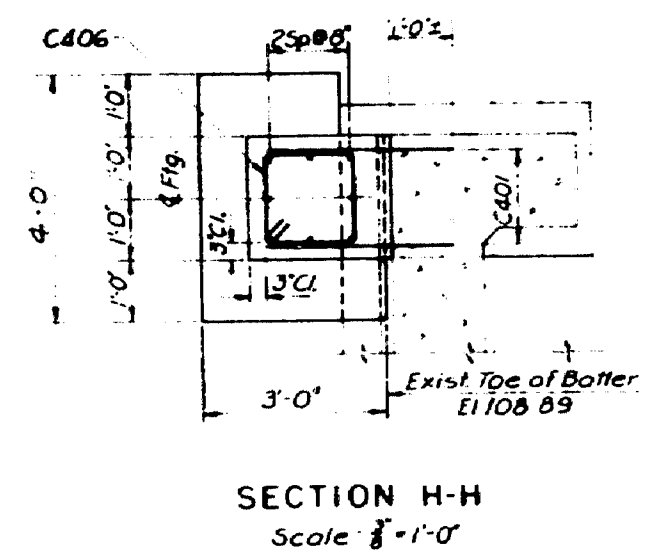
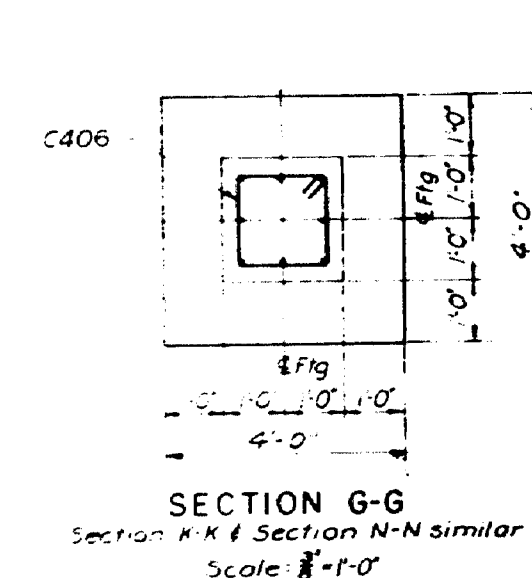
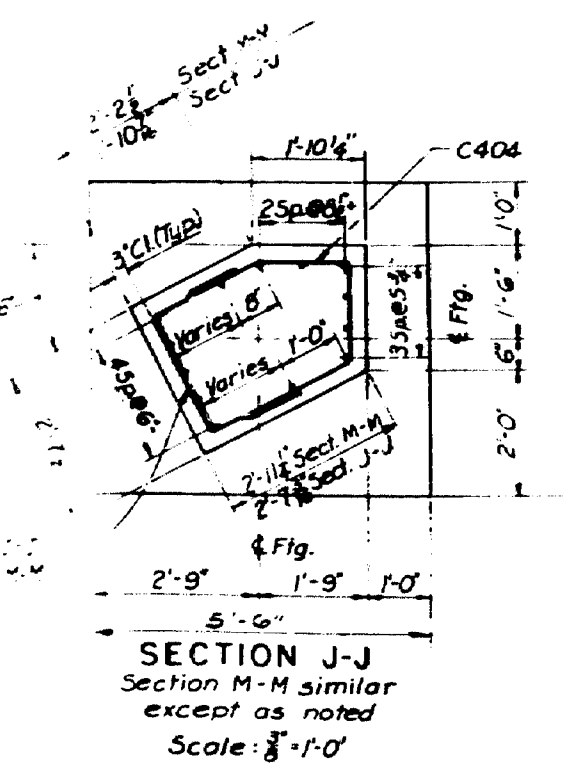
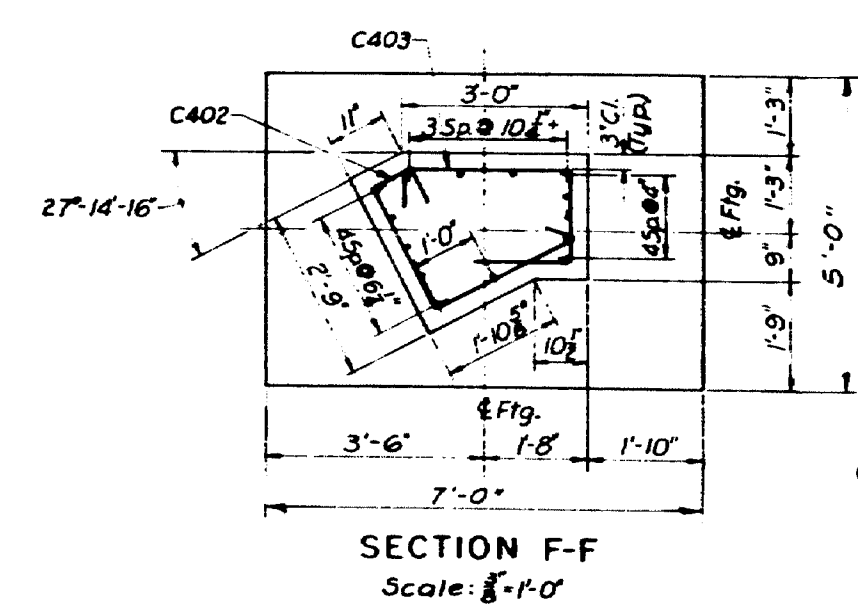
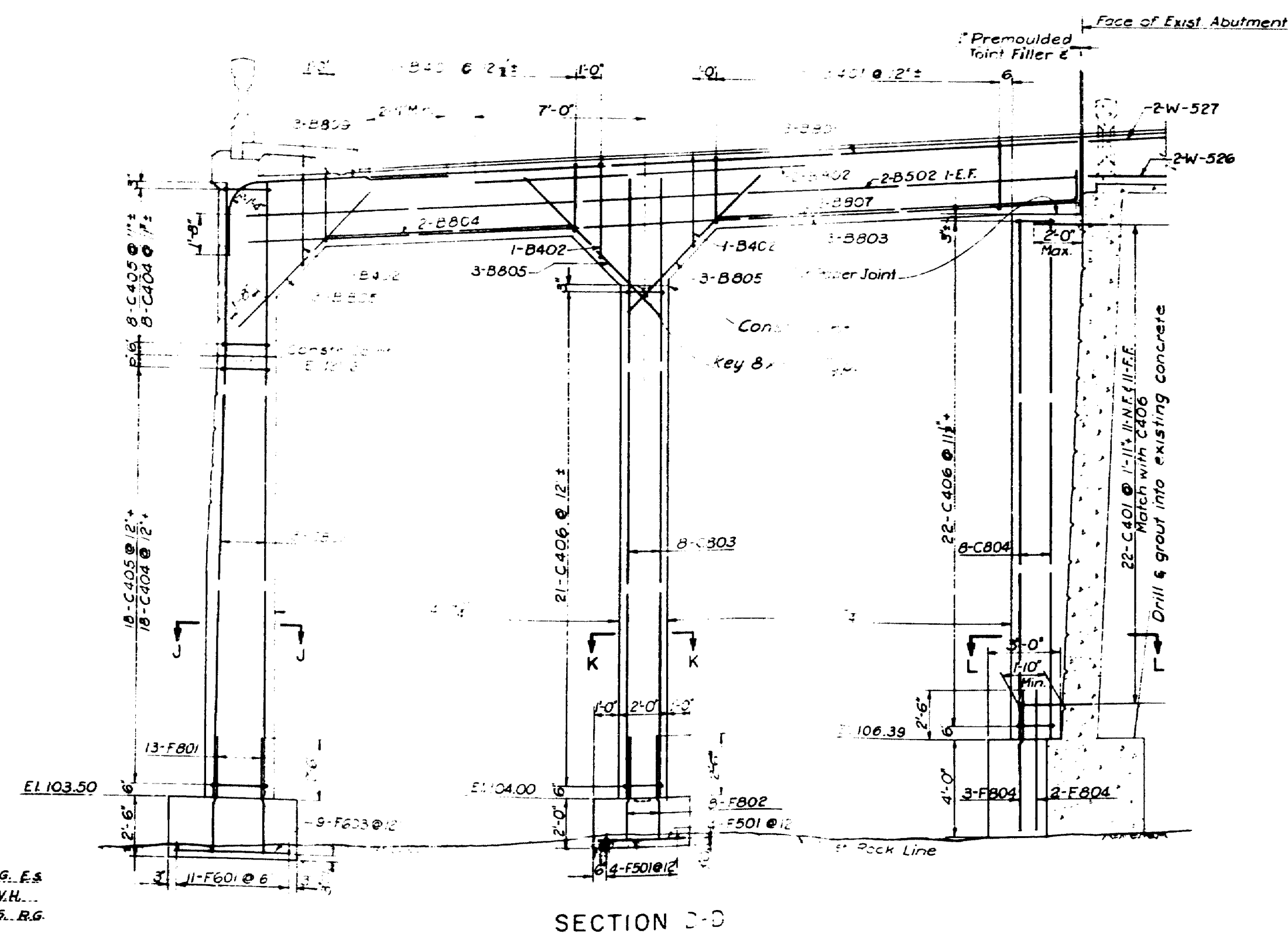
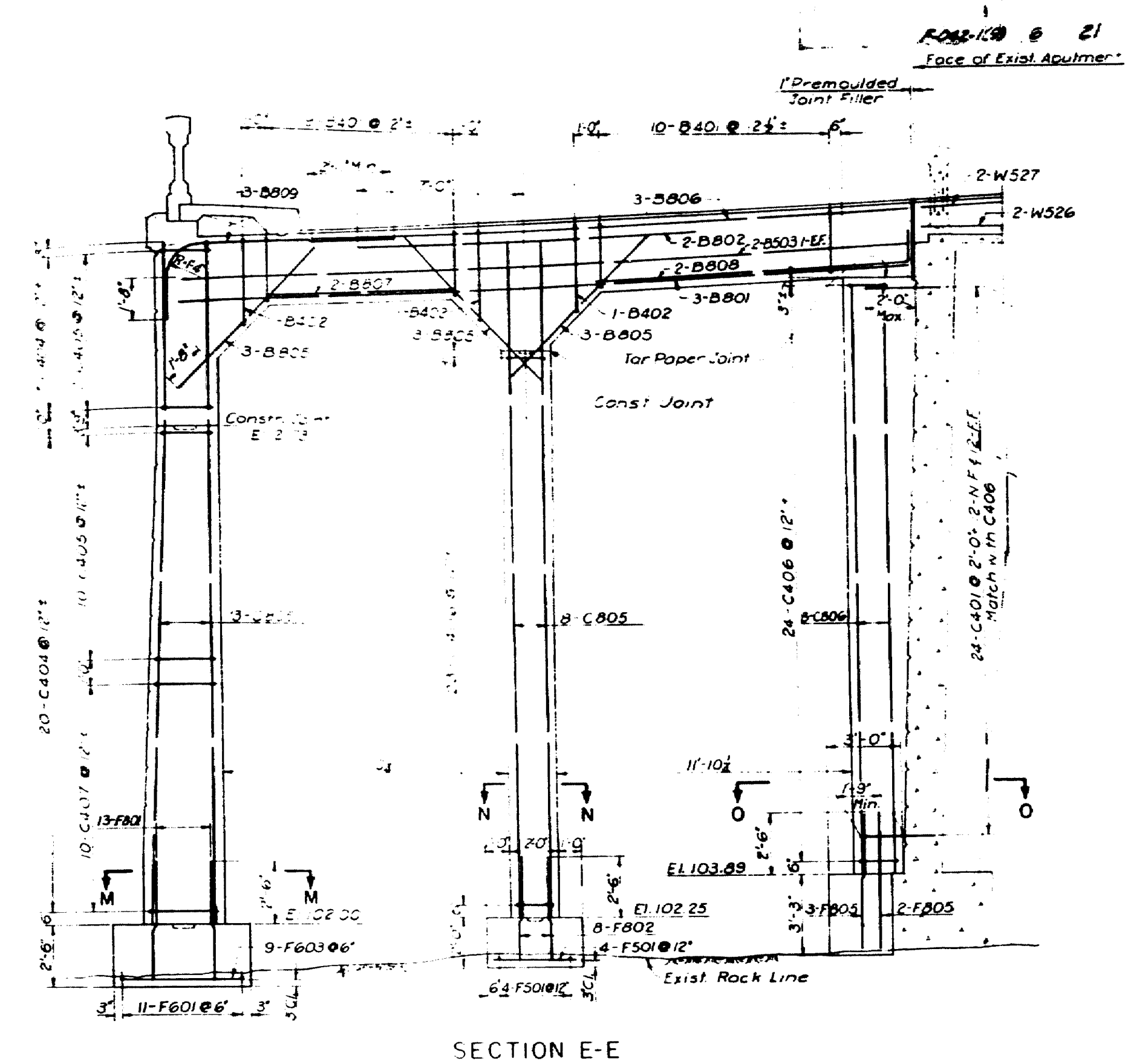
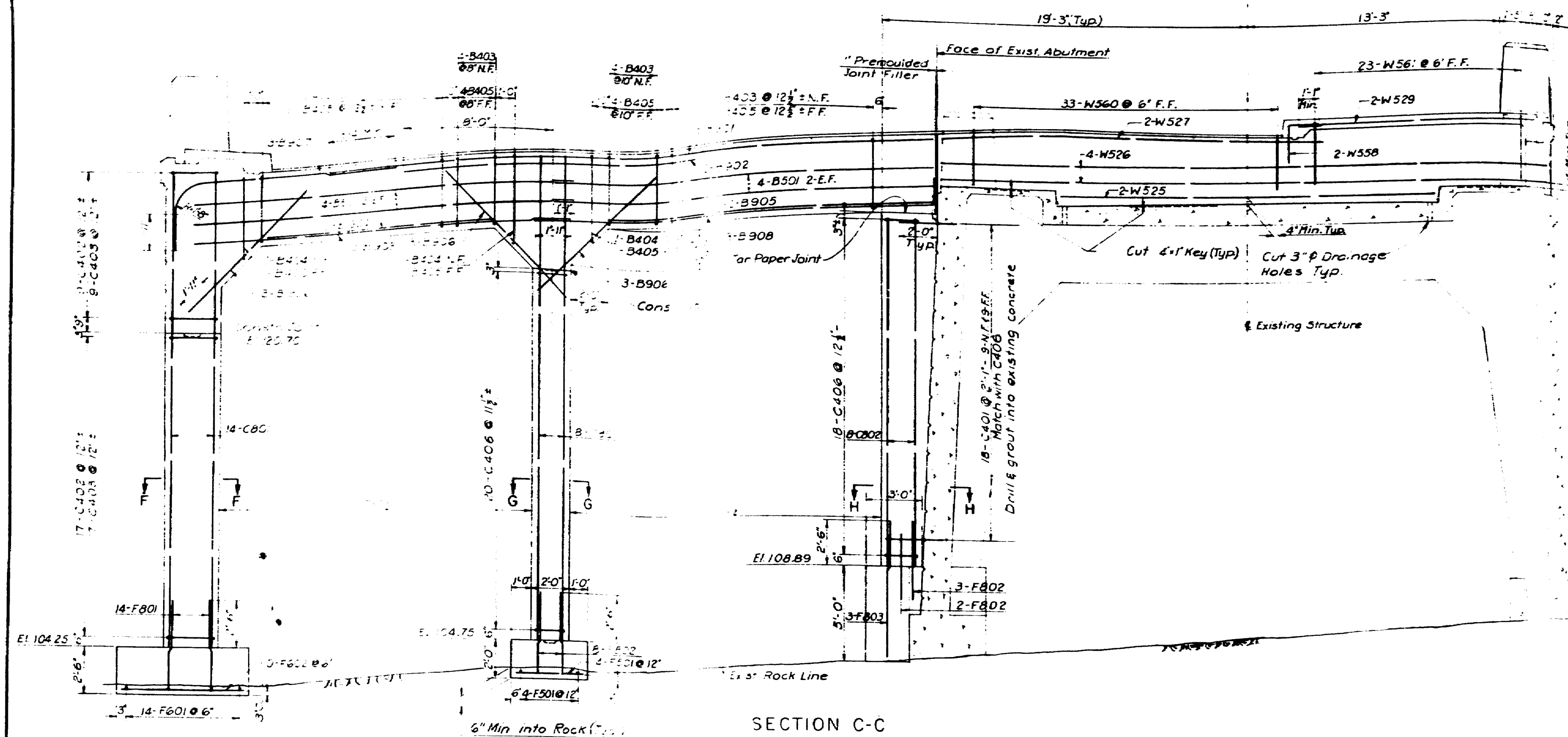


Design by R.G.E.
 Drawn by V.H.
 Checked by E.A.R.G.
 Engineer in Charge

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STATE HIGHWAY COMMISSION
BRIDGE DIVISION AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE
OVER
PENOBSCOT RIVER
BETWEEN THE TOWNS OF
PROSPECT, WALDO COUNTY
AND
VERONA, HANCOCK COUNTY
WEST ABUTMENT
REINFORCEMENT DETAILS
SHEET 5 OF 21 SCALE 1/4"=1'-0" DATE 12-13-24

86-105



Note:
Work this sheet with sheets #4, 5, 7 & 8.

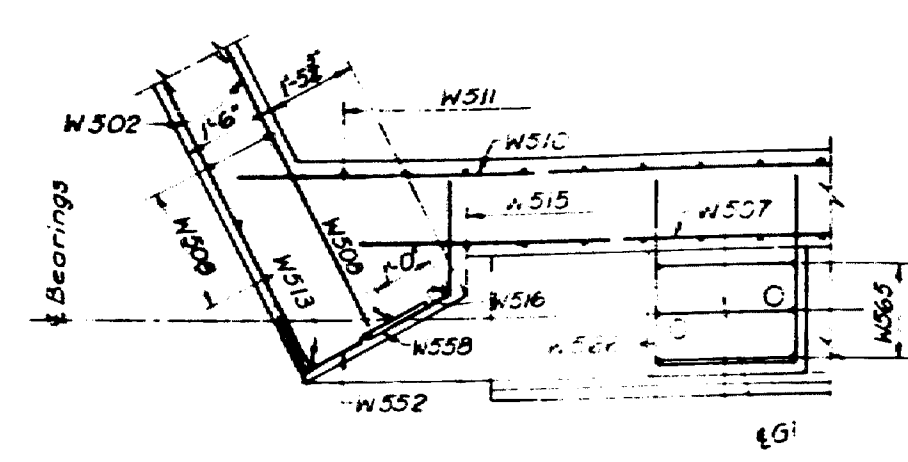
Design by R.G.E.S.
 Drawn by Y.H.
 Ck'd by E.S.R.G.

Engineer in Charge

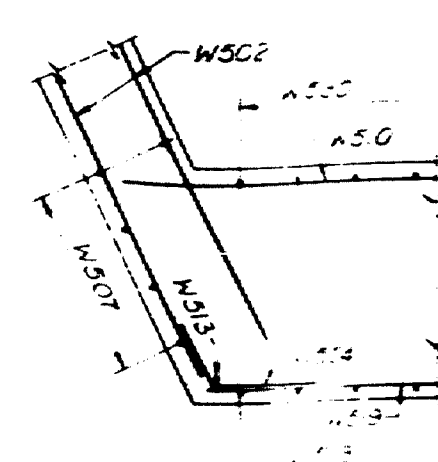
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CONSULTING ENGINEERS NEW YORK, N.Y.

STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE	
OVER	
PENOBSCOT RIVER	
BETWEEN THE TOWNS OF	
PROSPECT, WALDO COUNTY	
AND	
VERONA, HANCOCK COUNTY	
WEST ABUTMENT	
REINFORCEMENT DETAILS	
SHEET 6 OF 21 SCALE 1"=10' A.S. DATE Mar. 17, 1961	

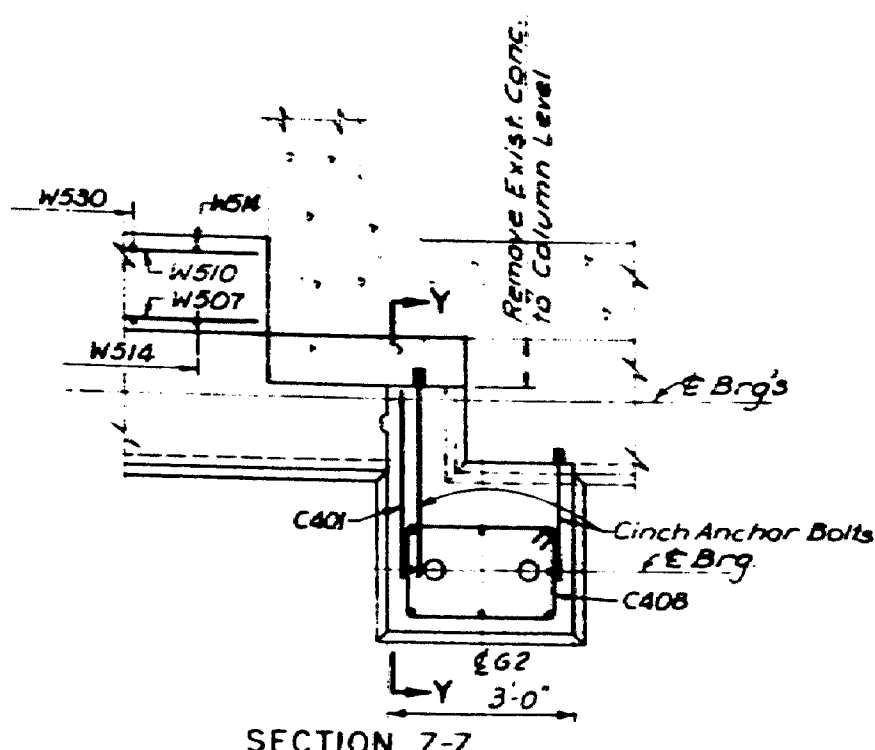
06-106



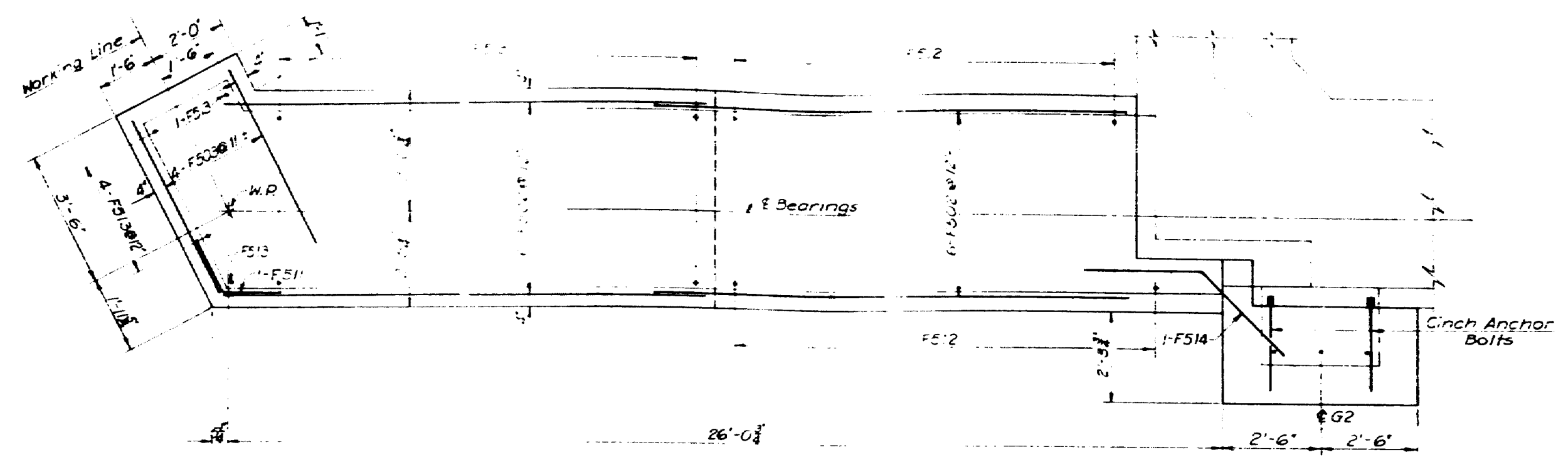
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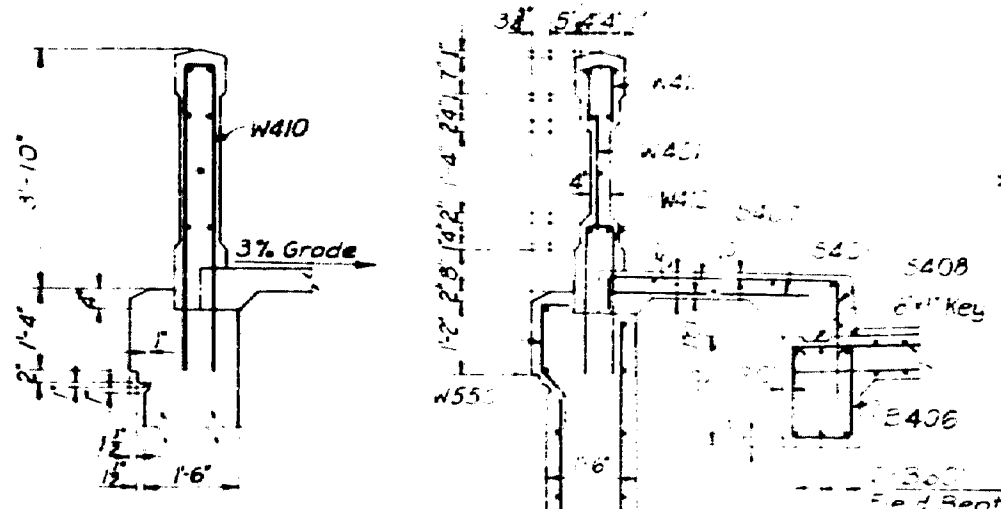
SECTION C-C



SECTION D-D



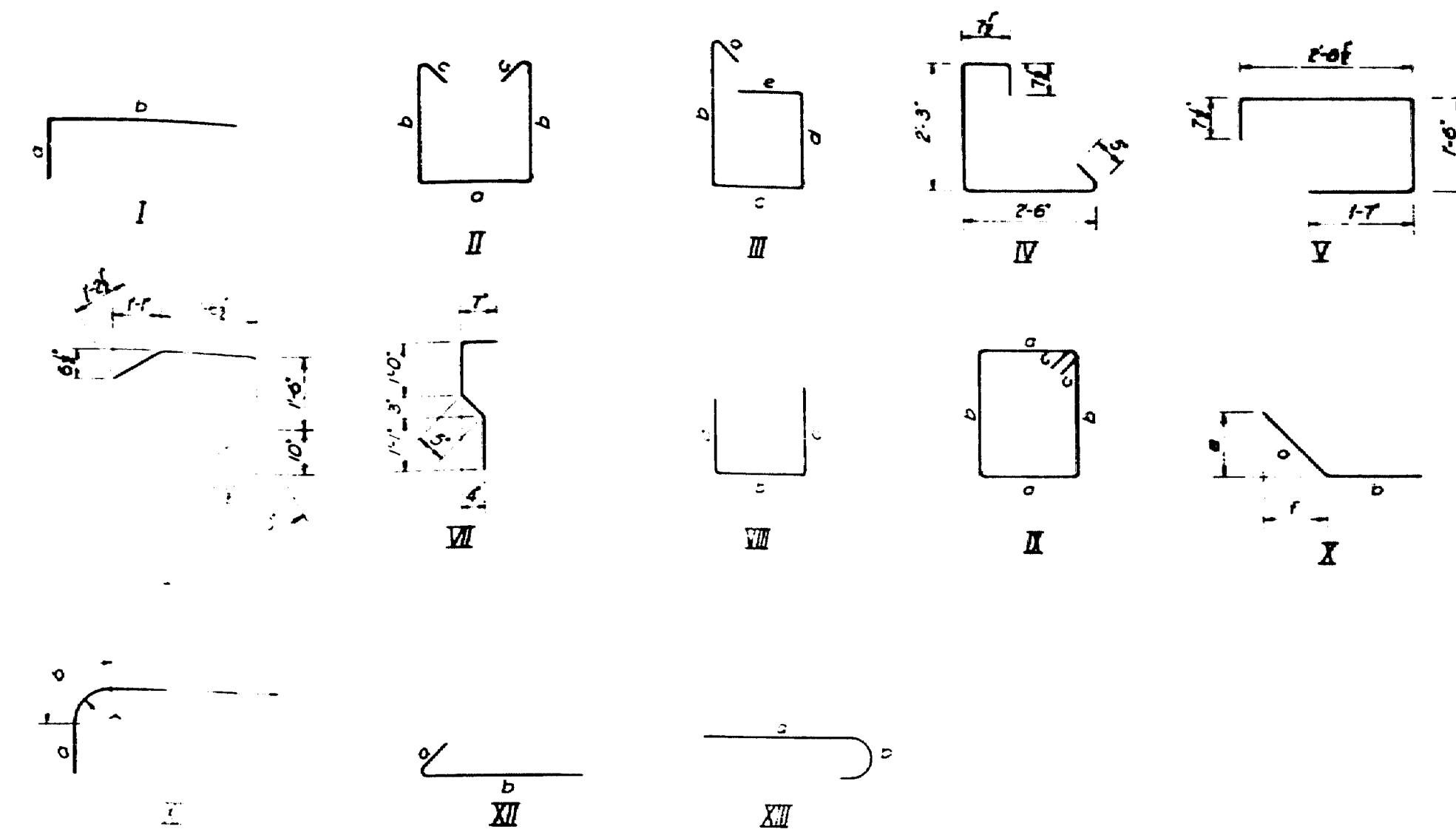
FOOTING PLAN



BAR	TYPE	SIZE	LENGTH	NO. REQ'D	TOTAL WT.
B901	Str	#9	33'-0"	3	337
B902	I	I	16'-0"	2	109
B903			20'-6"	3	209
B904			13'-3"	2	86
B905	I	I	17'-8"	2	120
B906	Str	#9	9'-0"	9	277
B907	Str	#8	30'-0"	6	48
B908	I	I	4'-0"	4	12
B909			35'-3"	2	67
B910			0'-2"	2	5
B911	I	I	5'-0"	10	40
B912	Str	#8	24'-6"	3	96
B913	Str	#6	37'-4"	2	336
B914	Str	#6	33'-9"	2	300
B915	Str	#6	32'-0"	4	32
B916	Str	#5	20'-9"	3	175
B917	Str	#5	35'-4"	1	71
B918	Str	#5	29'-10"	2	61
B919	Str	#5	25'-0"	1	110
B920	I	I	18'-0"	4	136
B921			25'-3"	2	141
B922			2'-13"	8	434
B923			27'-0"	2	164
B924			23'-5"	8	306
B925	I	I	24'-0"	8	424
B926	Str	#8	7'-8"	3	61
B927	Str	#5	3'-6"	6	58
B928	Str	#4	3'-0"	74	148
B929	Str	#8	5'-3"	40	507
B930	I	I	4'-3"	39	329
B931			7'-3"	5	58
B932	I	I	6'-3"	5	83
B933	Str	#8	5'-0"	5	73
B934	Str	#6	4'-6"	36	243
B935	Str	#6	5'-6"	0	98
B936	Str	#6	5'-0"	9	135
B937	Str	#5	3'-6"	24	88
B938	Str	#5	12'-6"	2	156
B939	Str	#6	5'-0"	2	21
B940	Str	#6	32'-3"	40	6729
B941	I	I	24'-3"	242	1359
B942			26'-0"	245	165
B943	I	I	24'-0"	245	165
B944	Str	#6	1'-0"	2	33

BAR	TYPE	SIZE	LENGTH	NO. REQ'D	TOTAL WT.
B945	Str	#5	32'-9"	46	1571
B946	I	I	32'-0" to 2'-2"	24	246
B947			31'-0" to 1'-8"	2	40
B948			19'-0"	2	40
B949			36'-10" to 3'-7"	29	648
B950			31'-0" to 2'-3"	24	544
B951			31'-0" to 0'-6"	24	490
B952			25'-0" to 2'-1"	24	490
B953			9'-0" to 0'-3"	54	676
B954			12'-0"	8	160
B955	I	I	8'-6"	18	116
B956	Str	#5	6'-0"	18	131
B957	Str	#4	3'-6"	67	157
B958	I	I	10'-0"	27	180
B959			6'-0"	9	36
B960			6'-8"	8	80
B961	I	I	33'-0"	2	44
B962	Str	#4	36'-10"	5	123
B963	Str	#5	13'-6"	2	310
B964	I	I	27'-0"	12	901
B965			15'-0"	7	266
B966			6'-0"	5	100
B967			14'-0"	5	234
B968			22'-0"	5	367
B969			23'-9"	5	272
B970			7'-0"	5	44
B971			24'-6"	5	128
B972			25'-9"	5	671
B973			6'-4"	24	159
B974			20'-9"	22	22
B975			23'-6"	25	637
B976			3'-6"	23	84
B977			5'-6"	22	126
B978			8'-3"	9	9
B979			21'-0"	22	22
B980			24'-3"	5	76
B981			26'-3"	7	465
B982			25'-0"	5	130
B983			19'-0"	20	20
B984			33'-3"	5	173
B985			33'-7"	35	35
B986			4'-6"	5	56
B987			19'-8"	3	164
B988			32'-0"	12	401
B989			20'-0"	6	125
B990			18'-0"	19	19
B991			12'-6"	2	26
B992	I	I	26'-0"	25	678
B993	Str	#5	17'-6"	1	18
B994			2'-0"	66	88
B995			35'-0"	7	164
B996			30'-6"	7	143

BAR	TYPE	SIZE	LENGTH	NO. REQ'D	TOTAL WT.
B997	II	1-11	2-11	10-88	156
B998	I	1-5	21-9"	3	236
B999	I	1-3	15-3"	2	88
B1000	I	1-3	12-7"	2	74
B1001	II	1-8	2-1	6-3"	192
B1002	II	1-8	2-9"	0-5"	43
B1003	II	1-8	3-9"	0-5"	40
B1004	III	0-5	3-9"	1-8"	31
B1005	III	0-5	4-9"	1-8"	3
B1006	III	0-5	2-5"	3-2"	34
B1007	II	0-11	1-6"	0-5"	91
B1008	III	3-6"	2-3"	3-6"	77
B1009	IV				111
B1010	V				111
B1011	VI				215
B1012	VII	1-25	2-11	1-3"	43
B1013	VIII	1-6"	1-6"	0-5"	128
B1014	VIII	1-6"	2-11	1-7"	10
B1015	IX	2-6"	1-6"	0-5"	24
B1016	IX	2-4"	2-4"	0-5"	16
B1017	X	1-6"	1-6"	1-4"	1
B1018	I	0-6"	3-6"		26
B1019	I	0-6"	4-0"		28
B1020	X	3-0"	3-0"	2-2"	1
B1021	I	0-7"	1-6"		67
B1022	I	2-0"	2-0"		67
B1023		0-10"	3-4"		4
B1024		0-5"	10-0"		27
B1025	I	1-9"	6-0"		9
B1026	I	1-9"	6-8"		18
B1027	VII				40
B1028	I	1-1"	1-9"		2
B1029	I	1-1"	2-2"		6
B1030	X	1-1"	3-11"	0-11"	2
B1031	X	1-1"	1-9"	0-11"	15
B1032	X	1-6"	4-0"	1-4"	7
B1033	VIII	1-5"	1-0"	3-6"	24
B1034	I	2-0"	2-0"		61
B1035	X	1-7"	1-11"	1-5"	10
B1036	VIII	1-3"	2-7"	1-3"	8
B1037	I	1-1"	2-7"		33
B1038	I	1-1"	3-3"		23
B1039	I	1-1"	2-4"		82
B1040	I	2-0"	2-4"		4
B1041	I	0-9"	2-10"		30
B1042	VIII	1-9"	2-3"	1-9"	3
B1043	VIII	3-0"	2-4"	3-1"	1
B1044	VIII	5-3"	0-6"	5-3"	11
B1045	I	0-10"	0-6"	0-10"	44
B1046	I	2-5"	0-6"	2-5"	24
B1047	I	6-0"	0-6"	6-0"	11
B1048	VIII	3-6"	0-6"	3-6"	20



Design by E.S.
 Drawn by V.M.
 Checked by R.S.
 Engineer in Charge

20,398

12,375

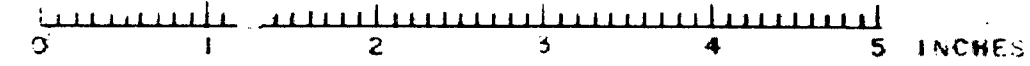
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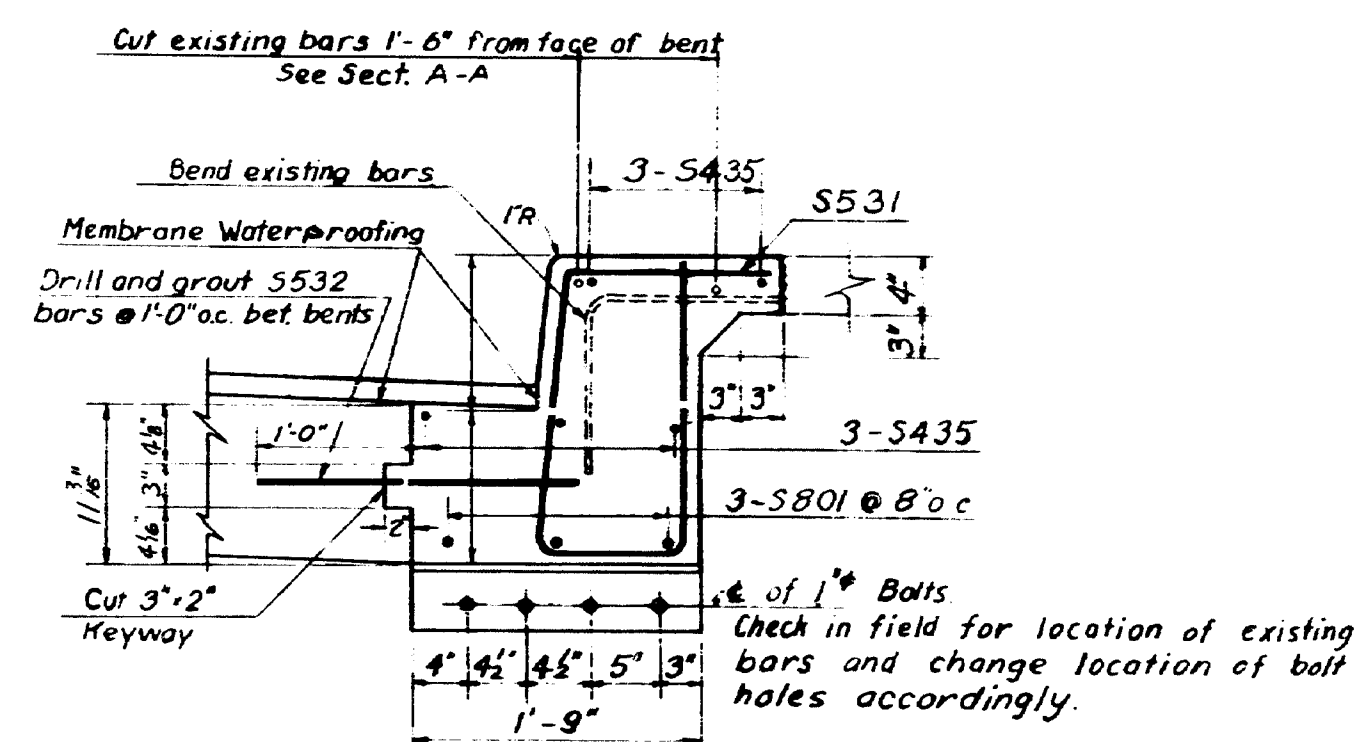
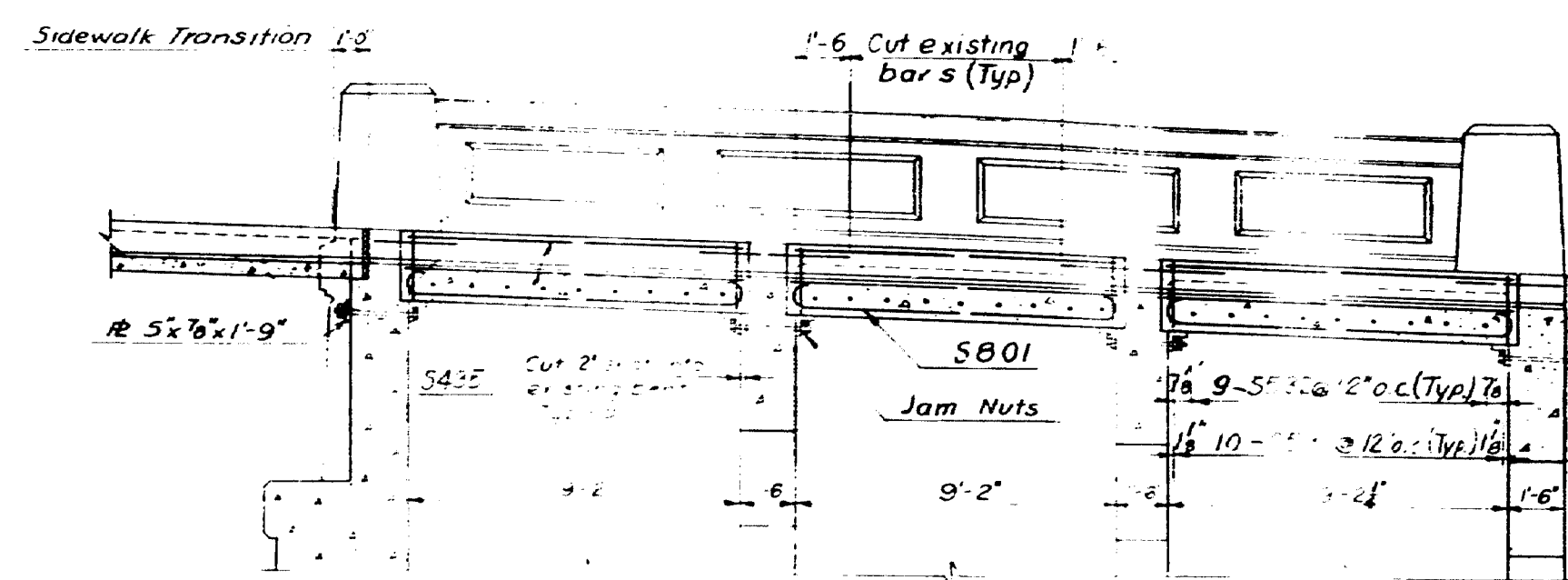
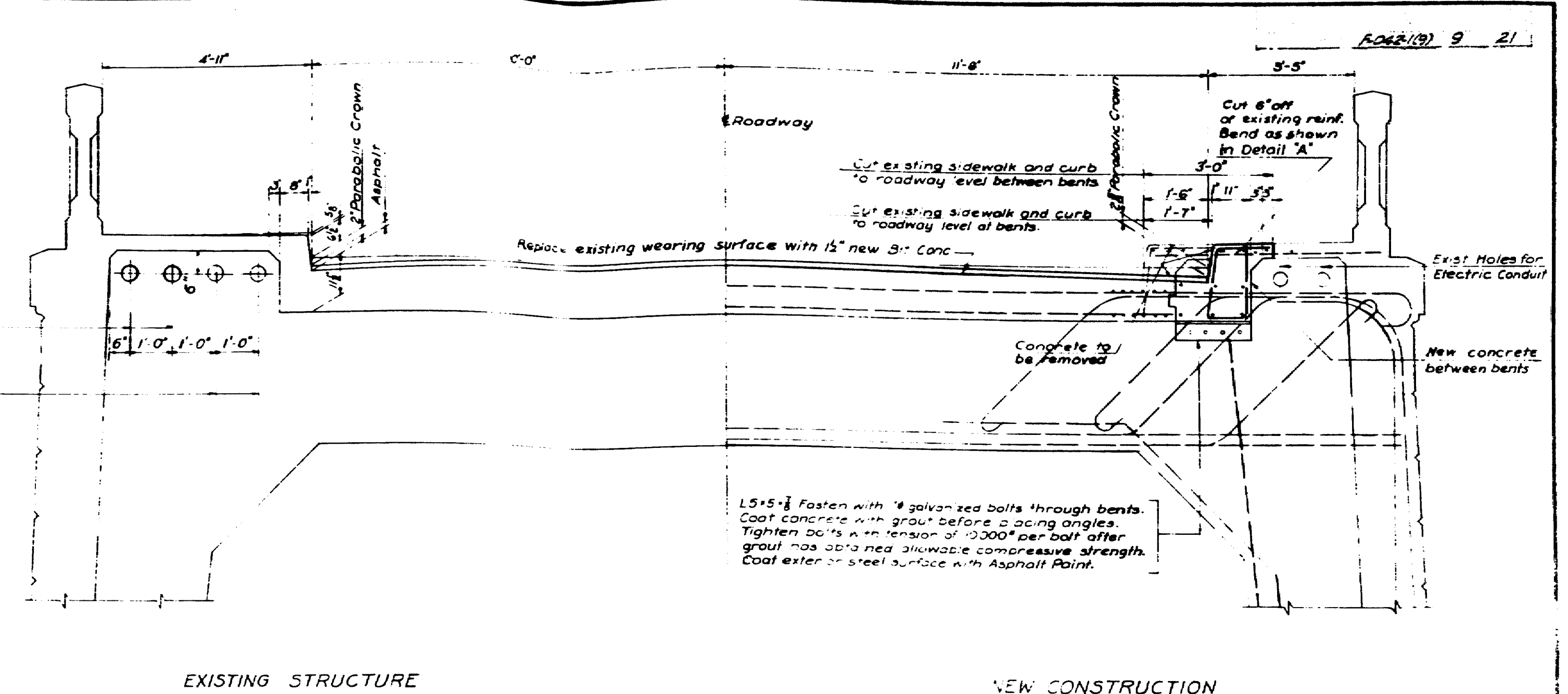
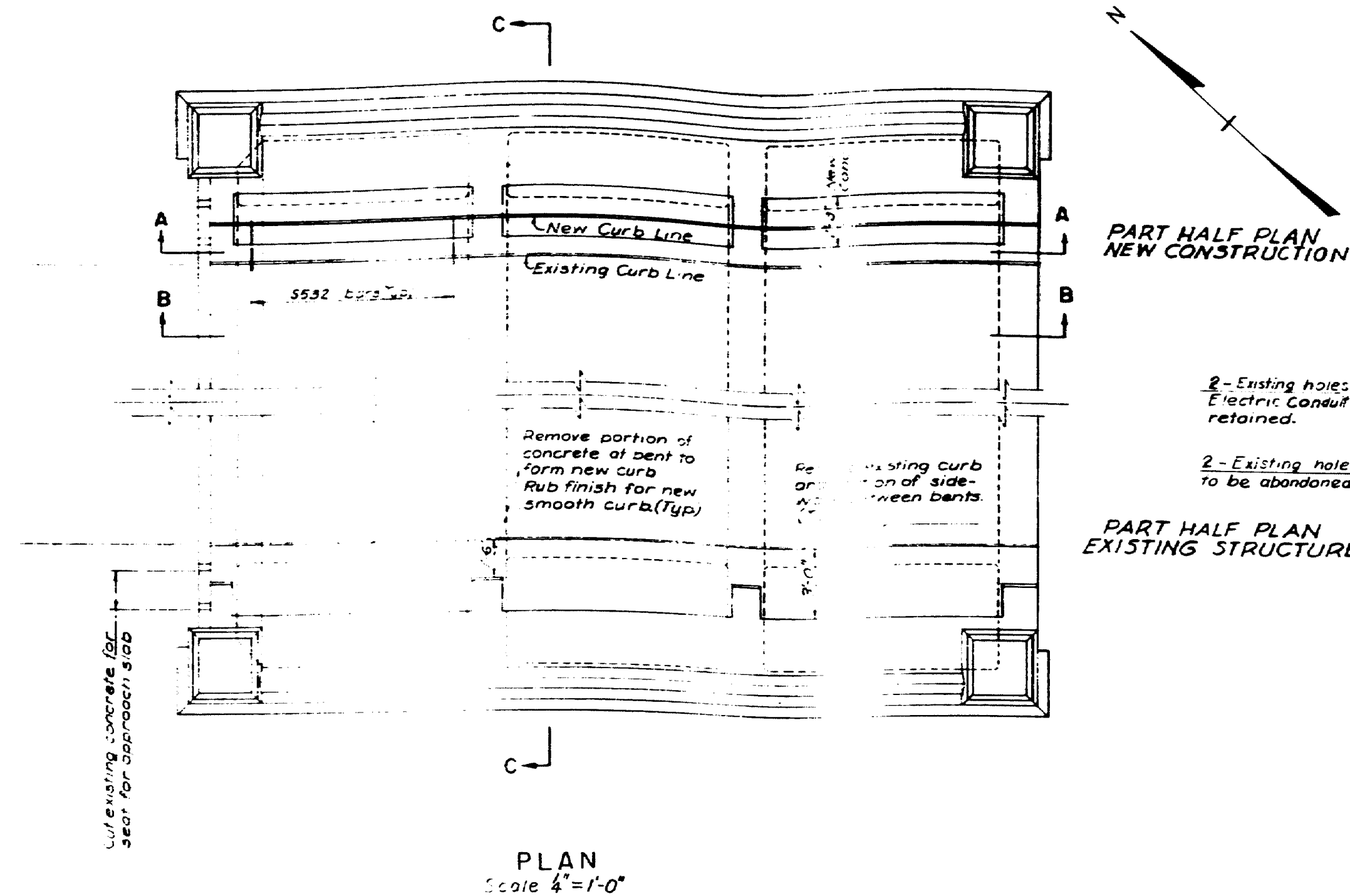
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STEINMAN, BOYNTON, GRONQUIST & LONDON
 CONSULTING ENGINEERS NEW YORK, N.Y.

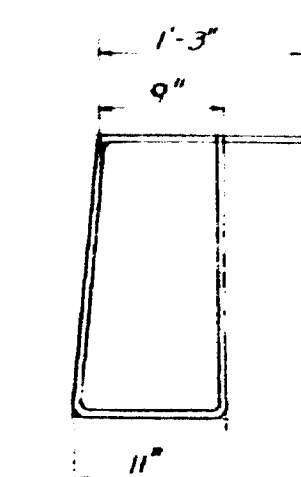
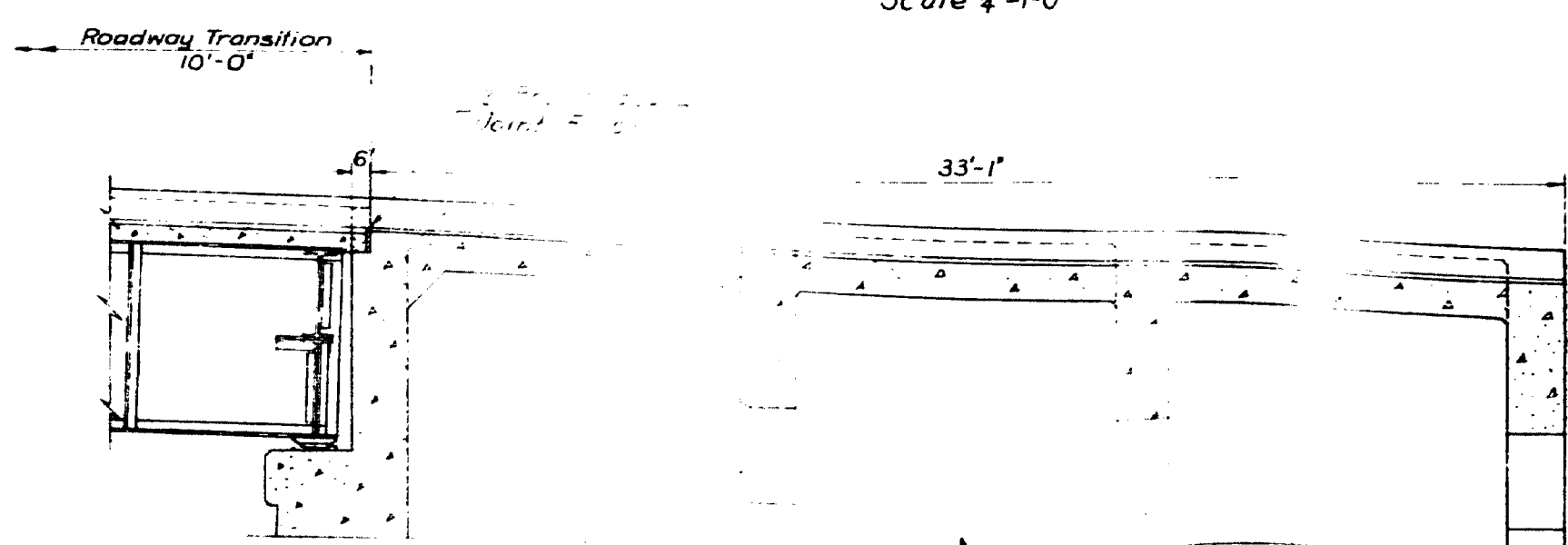
STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE	
OVER	
PENOBSCOT RIVER	
BETWEEN THE TOWNS OF	
PROSPECT, WALDO COUNTY	
AND	
VERONA, HANCOCK COUNTY	
WEST ABUTMENT	
BAR LIST	
SHEET 8 OF 21	SCALE: As shown DATE: Mar 17, 1961

86-108

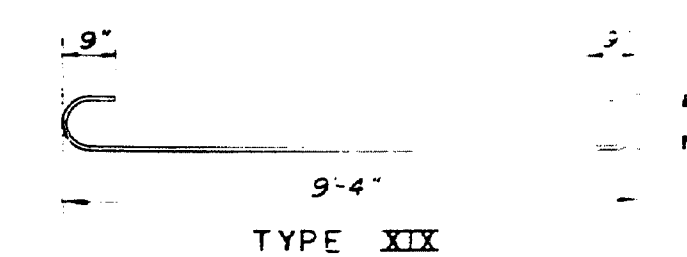




ESTIMATED QUANTITIES		
ITEM	UNIT	QUAN
$1\frac{1}{2}$ Bituminous Concrete Surface Course -Type A	Tons	7.0
Membrane Waterproofing	Sq.Yds	85.2
Concrete Class A	Cu.Yds	5.7
Structural Steel	Lbs.	862
Reinforcement	Lbs.	1123



BAR	TYPE	SIZE	LENGTH	TOTAL NO. REQ'D	TOTAL WEIGHT
5-1	<u>XIX</u>	"8	11'-6"	<u>18</u>	<u>553</u>
5-2	<u>XXIII</u>	"5	5'-5"	<u>60</u>	<u>339</u>
5-2	5th	"5	2'-0"	<u>54</u>	<u>112</u>
5-2	5th	"4	9'-4"	<u>36</u>	<u>224</u>
				<u>TOTAL</u>	<u>1224</u>



Design by A.I.Z.E.J.P.
 Drawn by V.H.
 Checked by R.G.
[Signature]
 Engineer in Charge

**STEINMAN, BOYNTON, GRONQUIST & LONDON
CONSULTING ENGINEERS NEW YORK, N.Y.**

STATE HIGHWAY COMMISSION BRIDGE DIVISION AUGUSTA, MAINE	
WALDO-HANCOCK BRIDGE OVER PENOBSCOT RIVER BETWEEN THE TOWNS OF PROSPECT, WALDO COUNTY AND VERONA, HANCOCK COUNTY	
EAST ABUTMENT DETAILS	
SHEET 9 OF 21	SCALE <i>As noted</i> DATE <i>Mar 17, 1961</i>

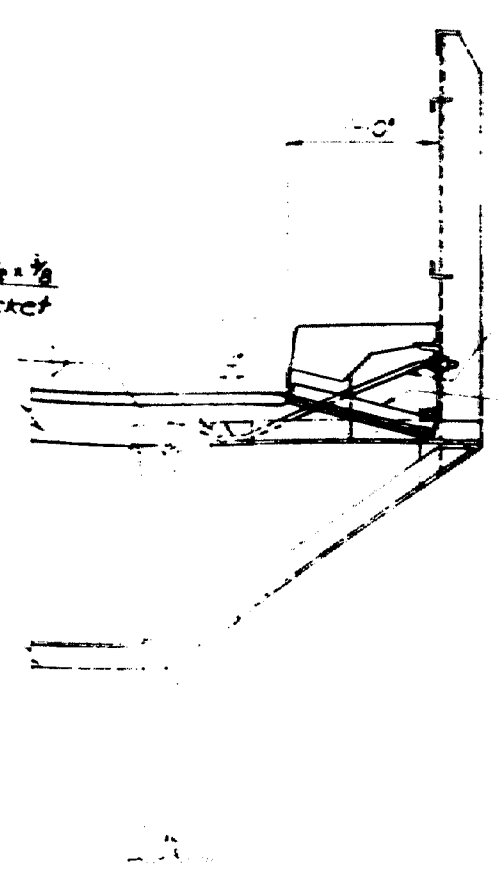
SHEET 9 OF 21 **SCALE** *As noted* **DATE** *Mar. 17, 1961*

86-109



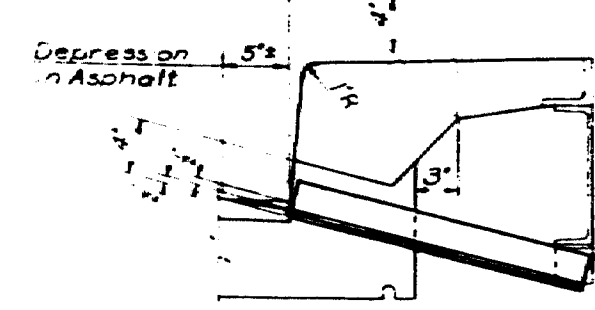
EXISTING STRUCTURE

Clip $4 \times 3 \frac{1}{2} \times \frac{1}{8}$
welded to bracket
angle



NEW CONCRETE DECK

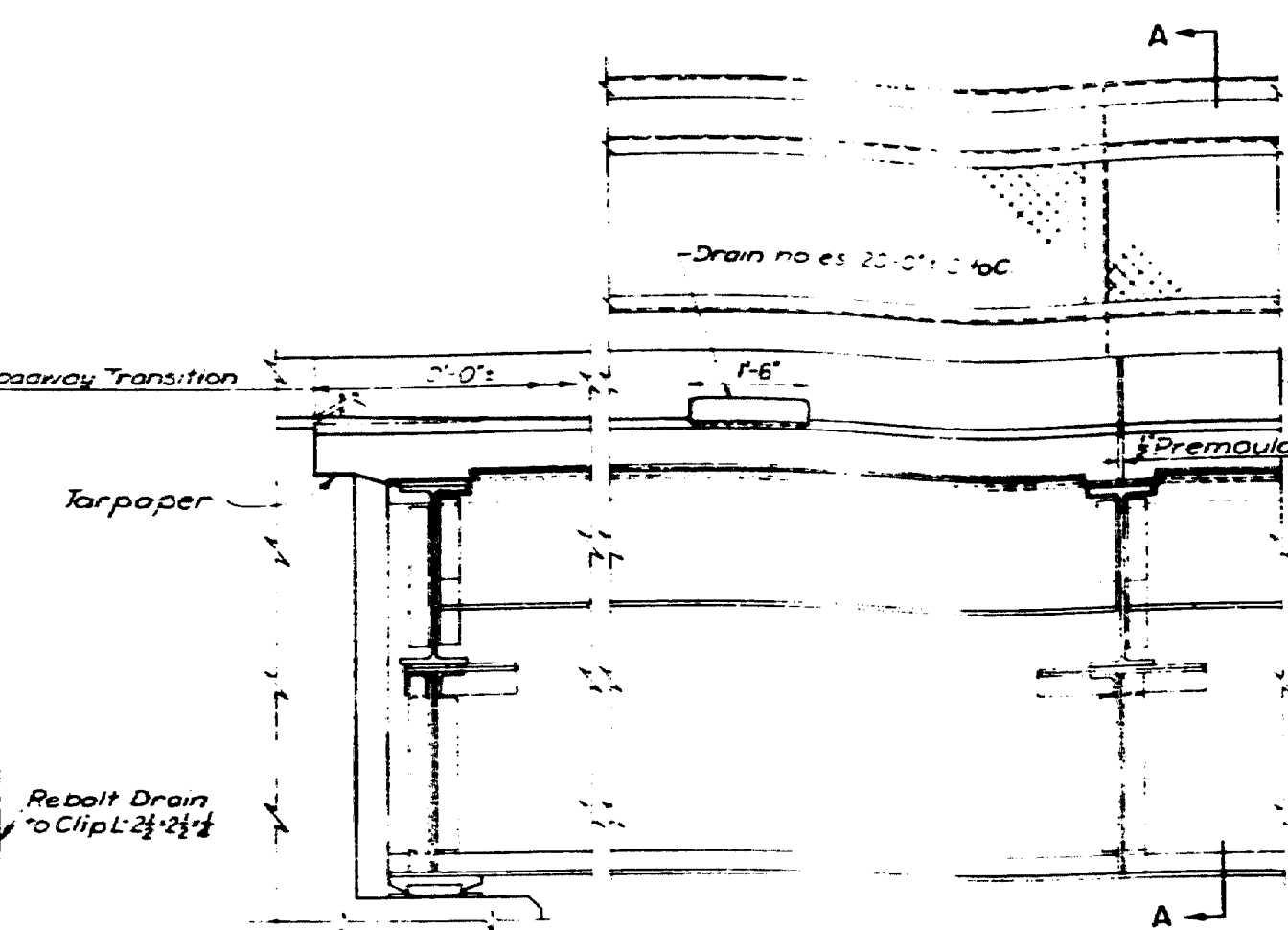
Cut & Relocate
 $\frac{3}{4} \phi$ Rod
Cut & Relocate Drain,
 $2 \times 3 \times 2 \frac{1}{2} \times \frac{1}{4}$ & R-10 $\times \frac{1}{4}$



DETAIL OF DRAIN
AND DRAIN HOLE
Scale: $1" = 1'-0"$

Roadway Transition

Tarpaper

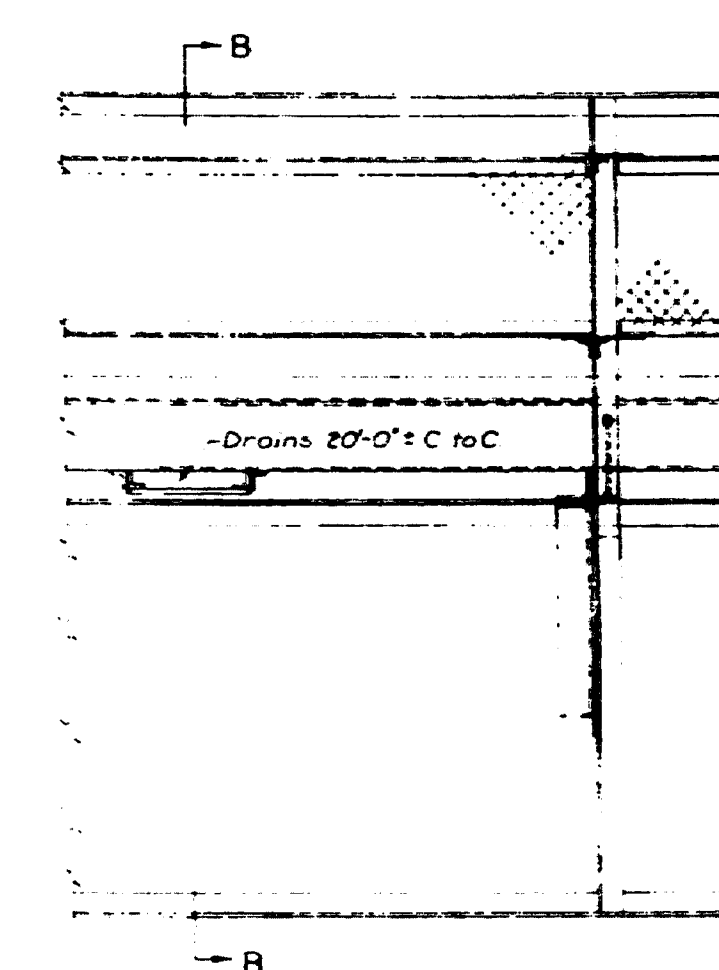


SECTION AT
EAST ABUTMENT

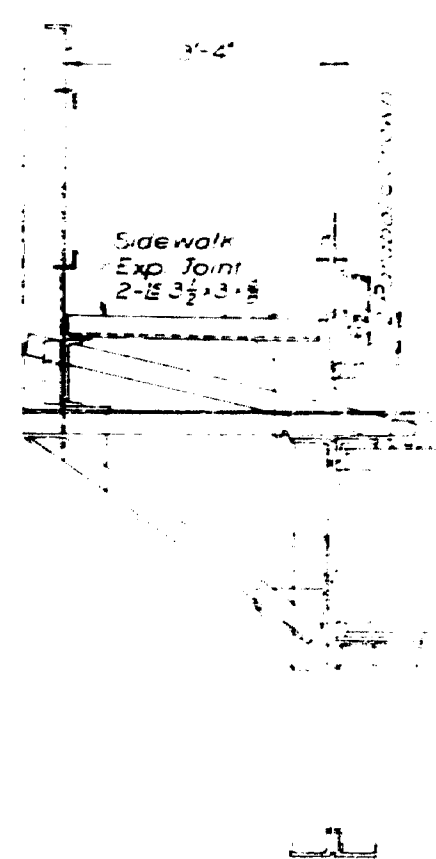
TYPICAL SECTION

LONGITUDINAL SECTION OF NEW CONCRETE DECK

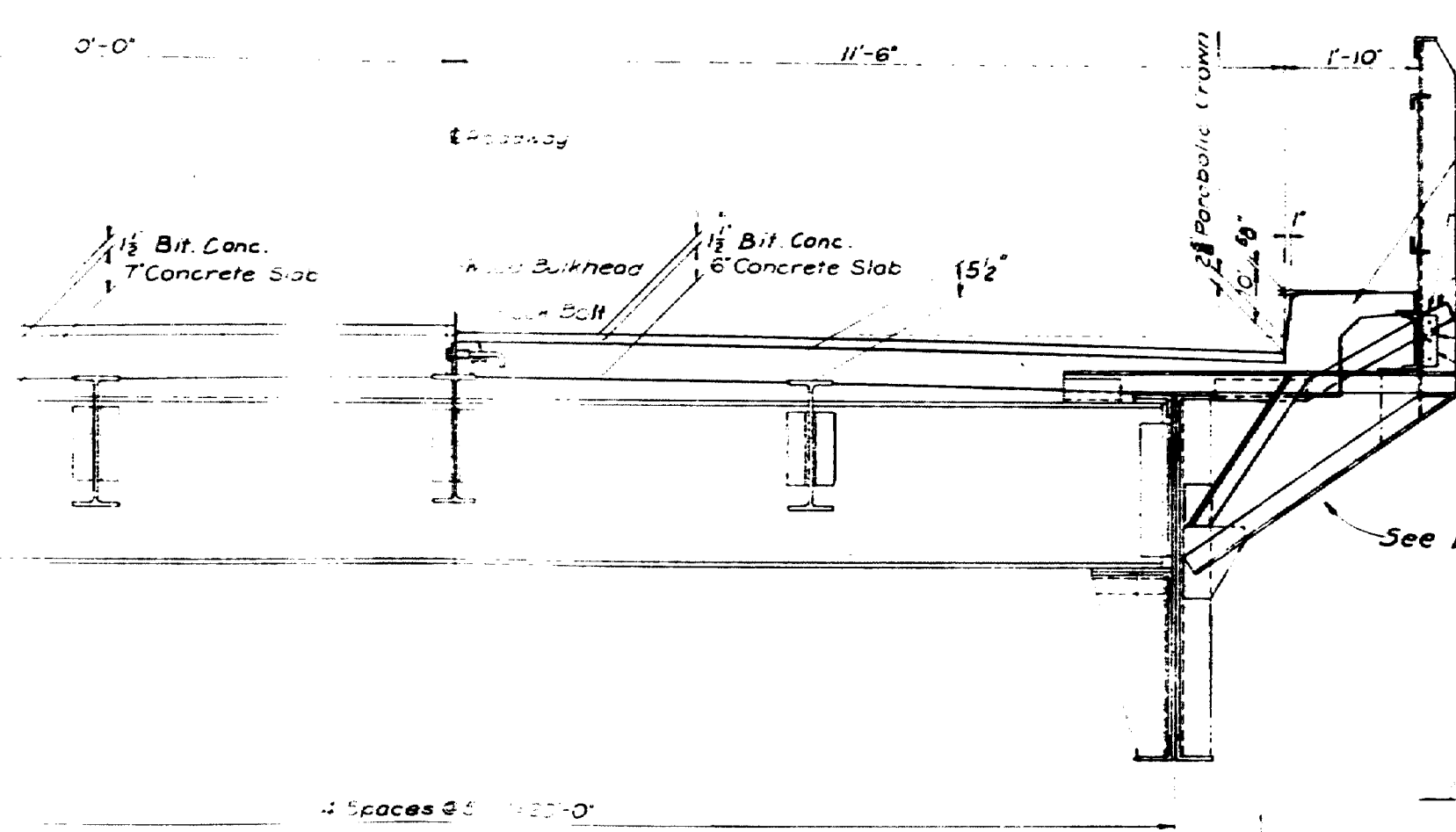
Scale: $1" = 1'-0"$



SIDE ELEVATION
Scale: $\frac{1}{2}" = 1'-0"$



EXISTING STRUCTURE



NEW CONCRETE DECK

SECTION A-A

TYPICAL CROSS SECTIONS

Scale: $1" = 1'-0"$

Remove S. deck
Excavation Joint
 $2 \times 3 \times 3 \times \frac{1}{8}$

Cut & Relocate
 $3 \times \frac{3}{8}$ Bar

Cut $3 \times \frac{3}{8}$ Fill

Remove & bolt
 $L \times 3 \times 3 \times \frac{1}{8}$ through
existing holes

See Detail A

$1 \frac{1}{2} \phi$ threaded
entire length

$\frac{3}{8} \phi$ Hook Bolt

$\frac{3}{4} \phi$ Hook Bolt

$\frac{3}{4} \phi$ 3x3 Bent Stud
Shear Connector

2" Cover

10"

Bituminous Concrete

10"

10"

10"

10"

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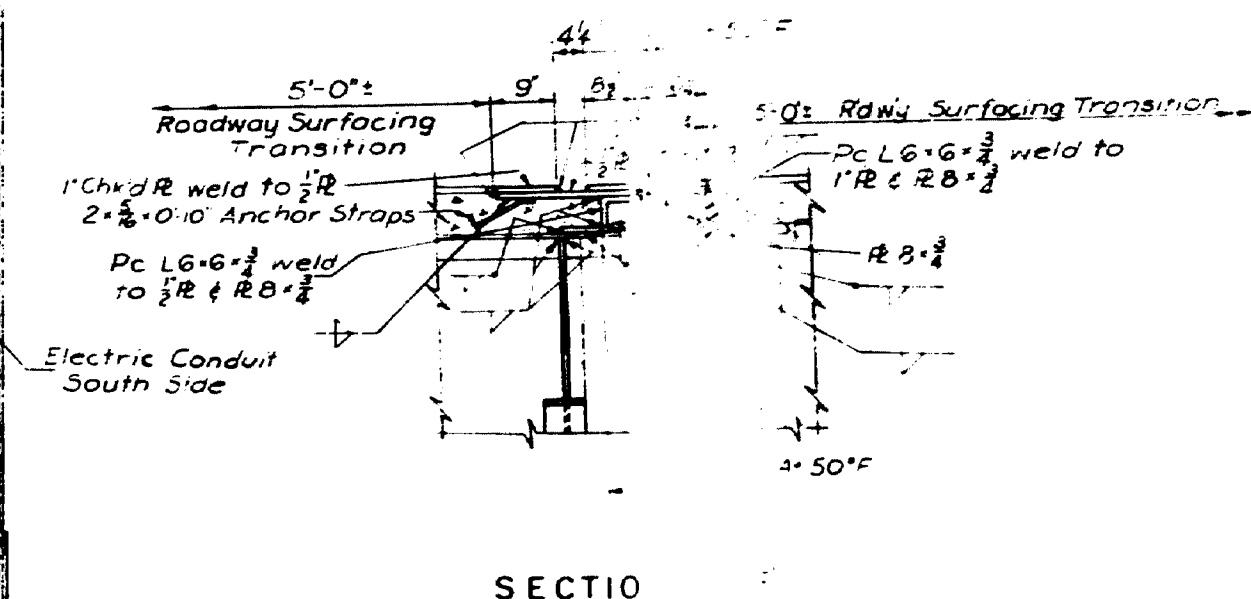
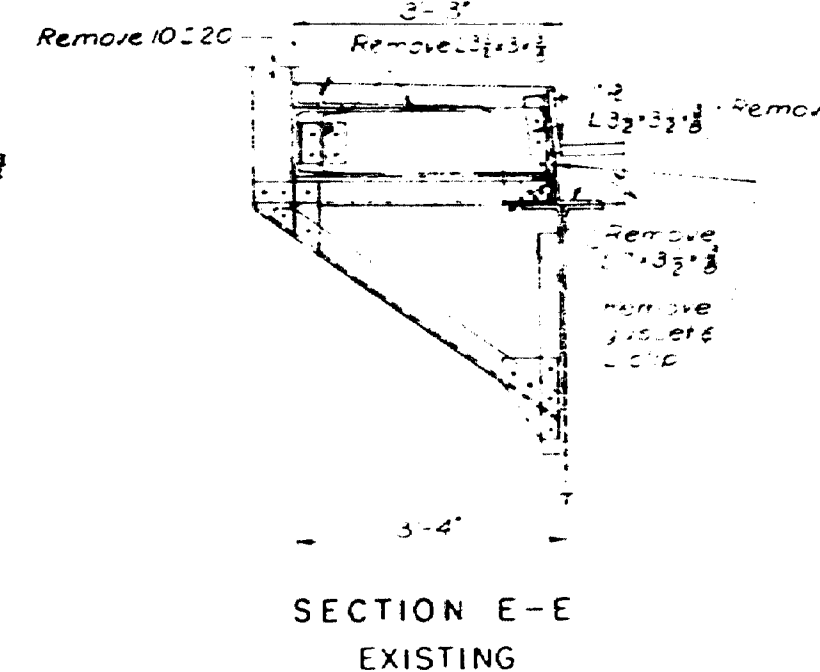
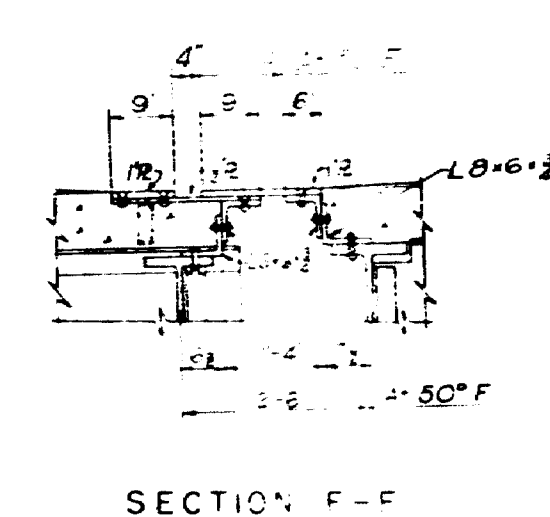
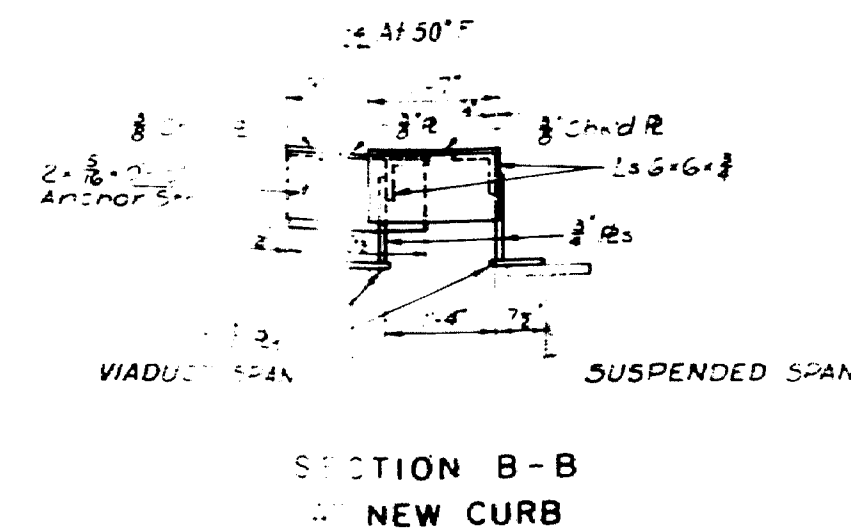
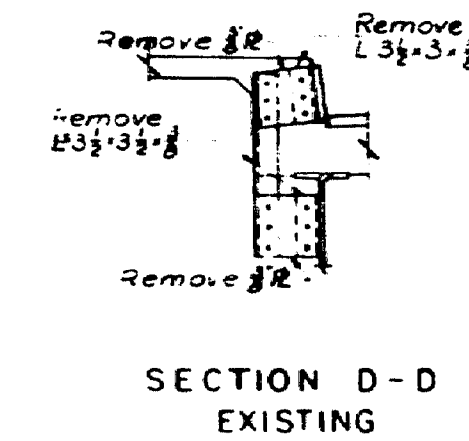
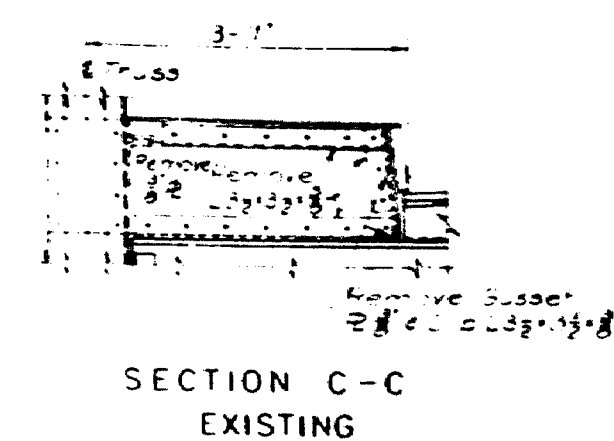
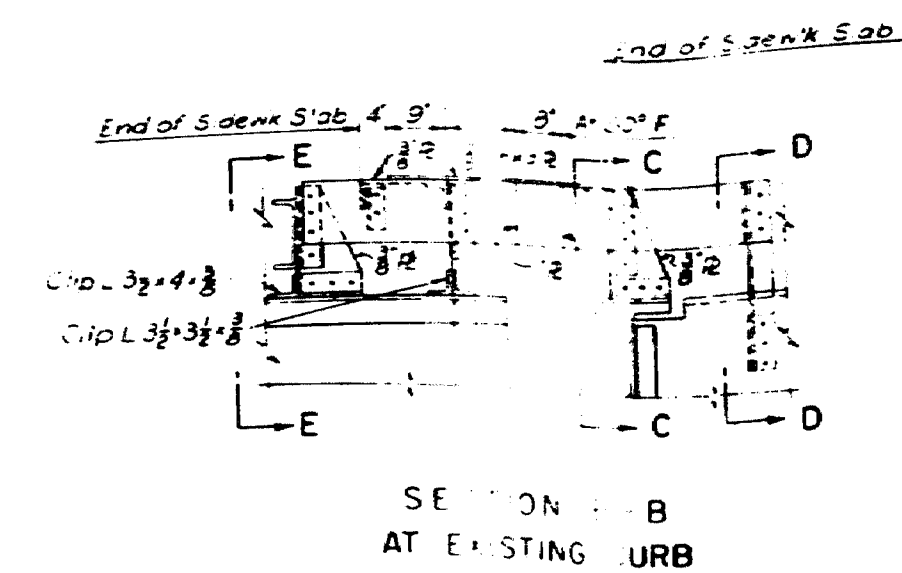
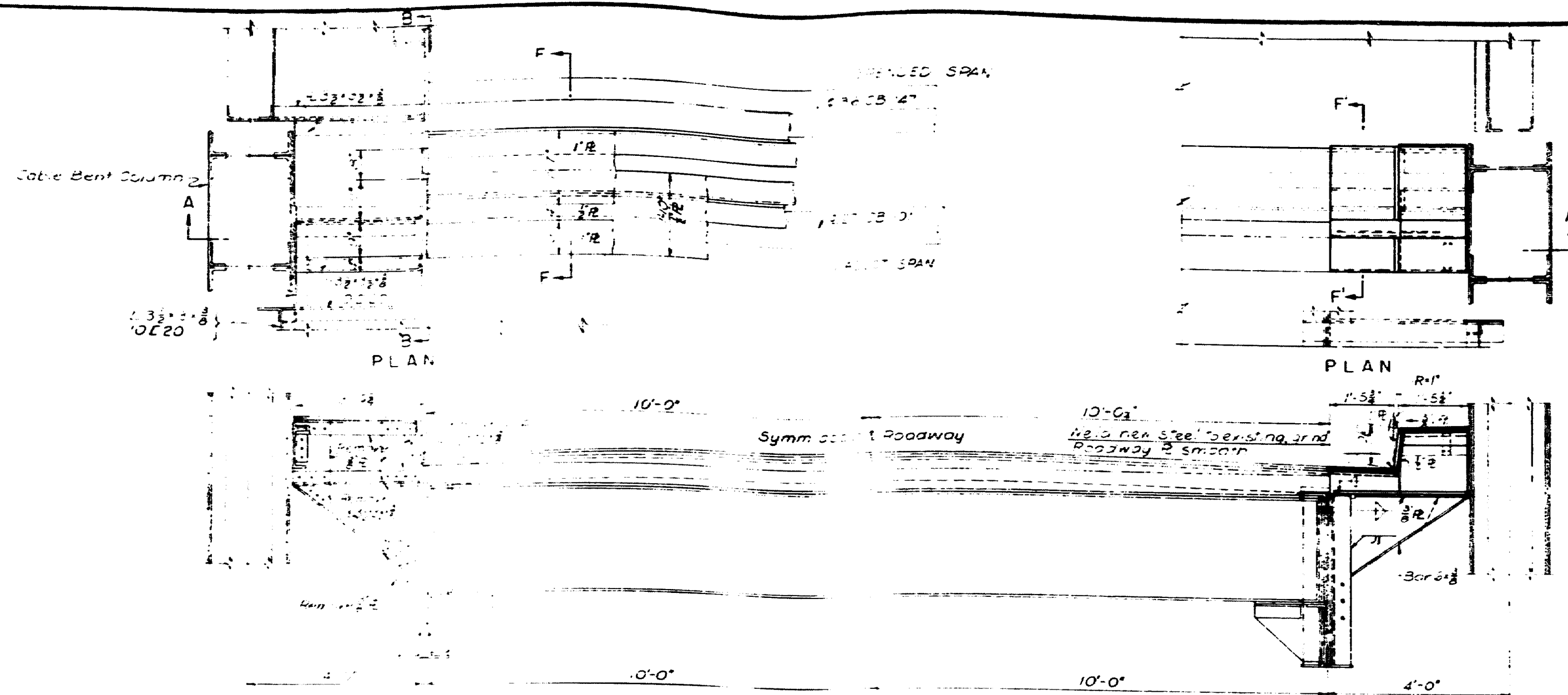
10"

10"

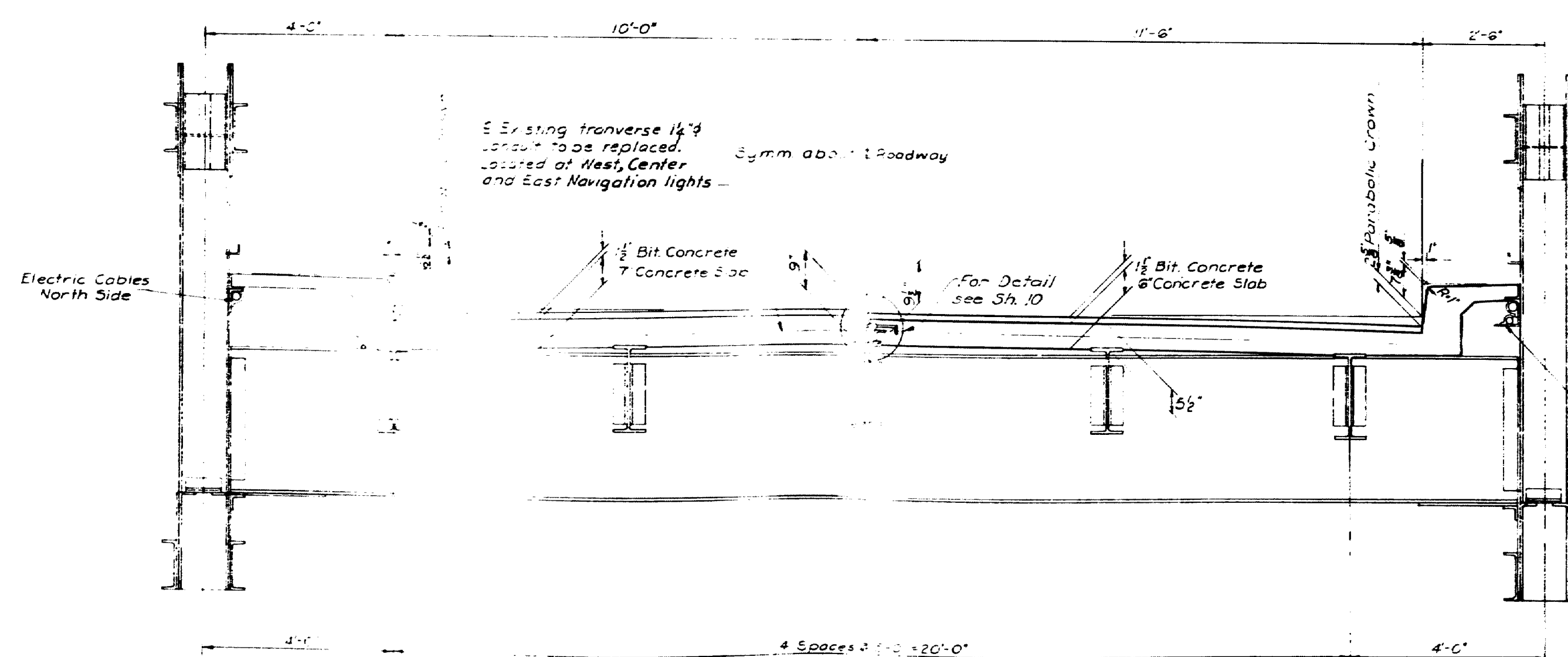
10"

10"

10"



Note:
Existing material may be used
Fill all existing holes
All welds $\frac{1}{4}$ "



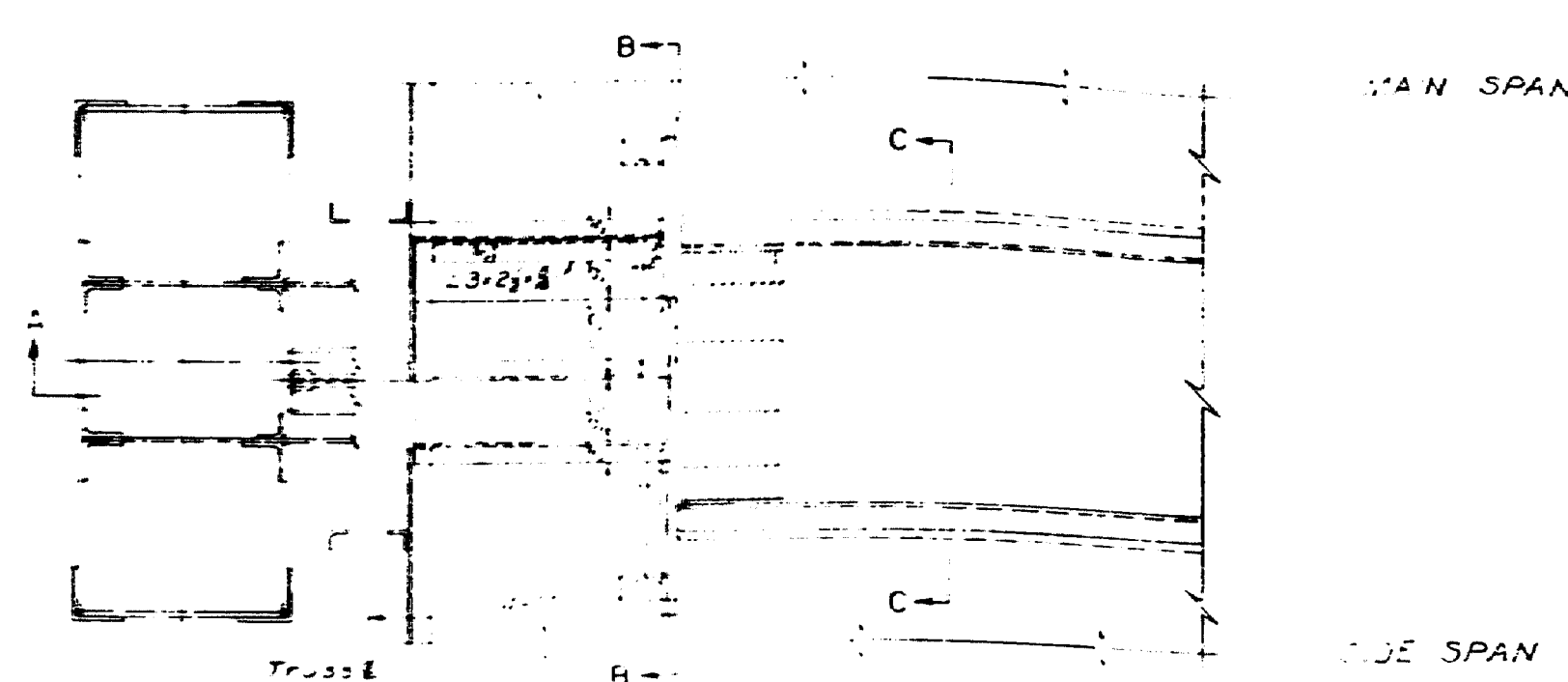
Design by A.I.Z.
Drawn by V.H.R.
Checked by E.H.
Engineer in Charge

STEINMAN, BOYNTON, GRONQUIST & LONDON
CONSULTING ENGINEERS NEW YORK, N.Y.

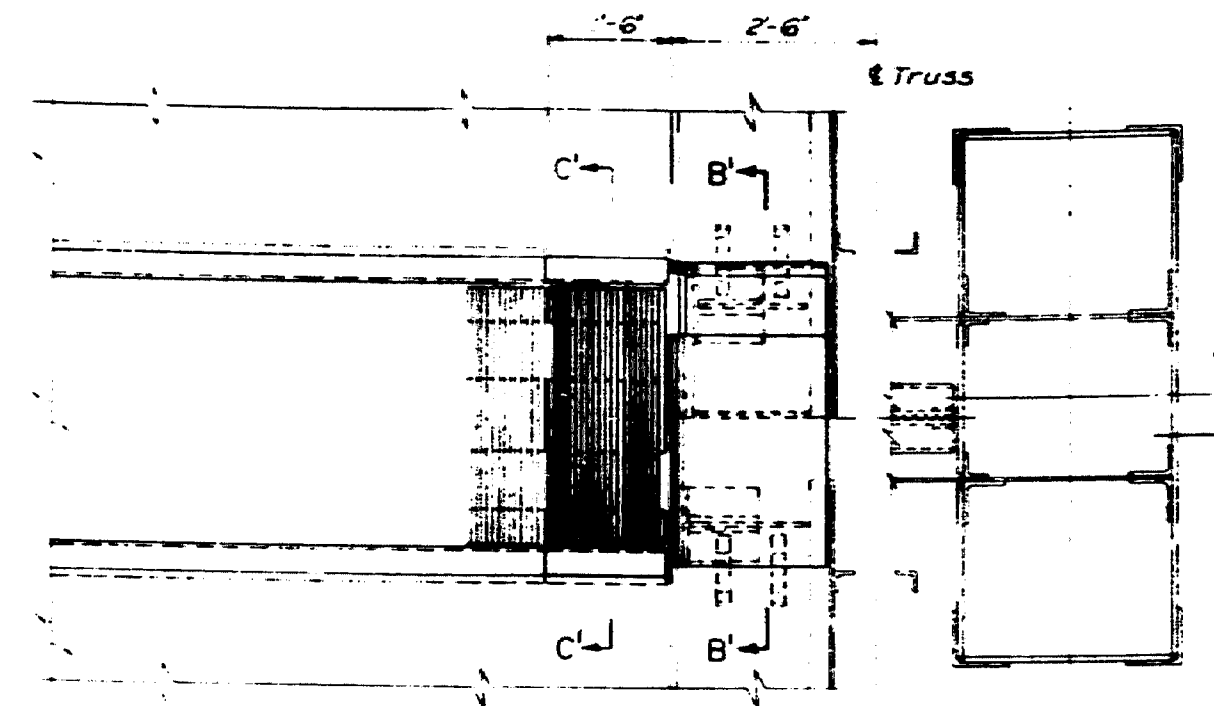
STATE HIGHWAY COMMISSION BRIDGE DIVISION AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE OVER PENOBSCOT RIVER BETWEEN THE TOWNS OF PROSPECT, WALDO COUNTY AND VERONA, HANCOCK COUNTY
CROSS SECTION SUSPENDED SPANS
SHEET 11 OF 21 SCALE $\frac{1}{2}$ " = 1'-0" DATE Mar 17, 1961

86-111

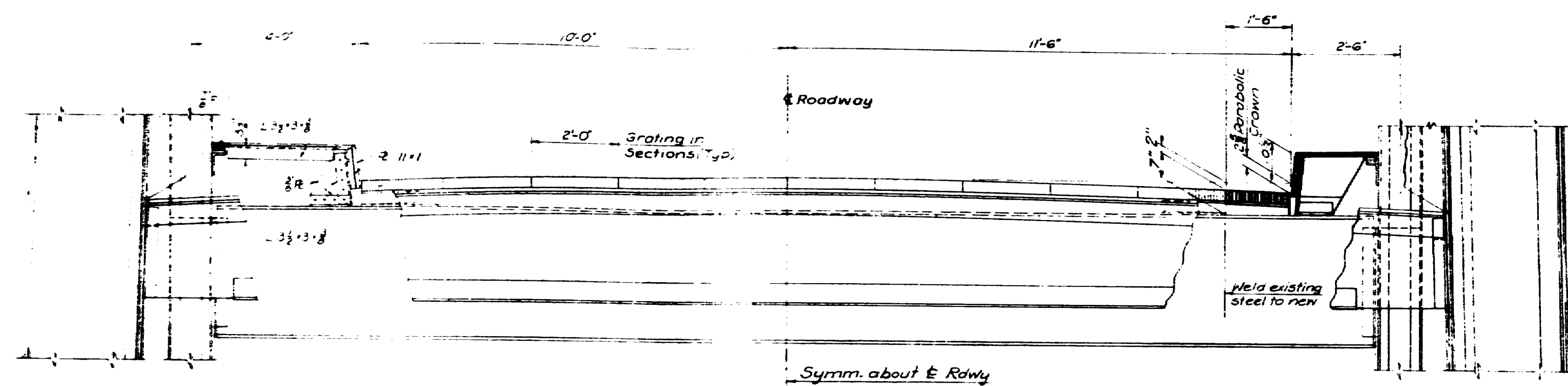
0 1 2 3 4 5 INCHES



PARTIAL HALF PLAN OF EXISTING STRUCTURE



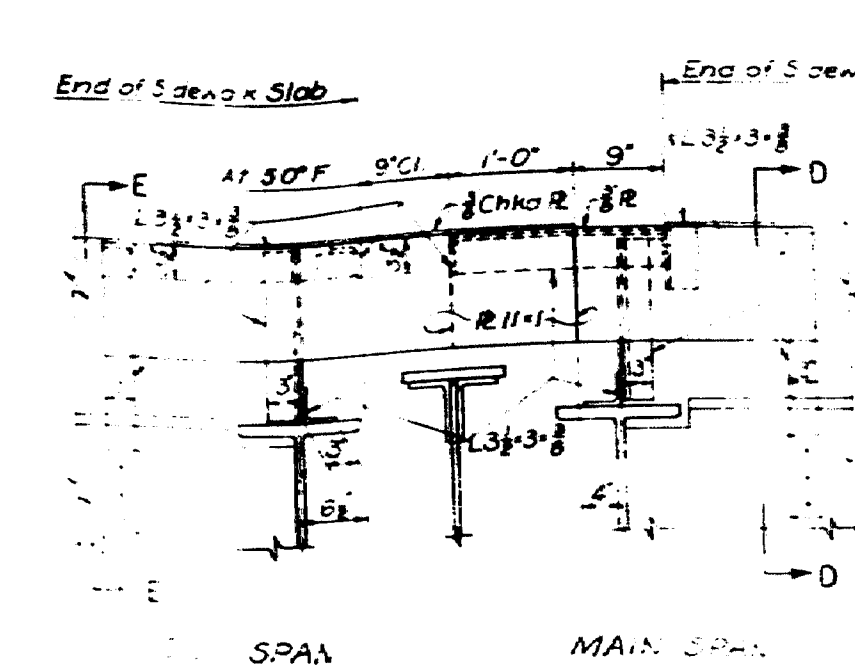
PARTIAL HALF PLAN AT NEW EXPANSION JOINT



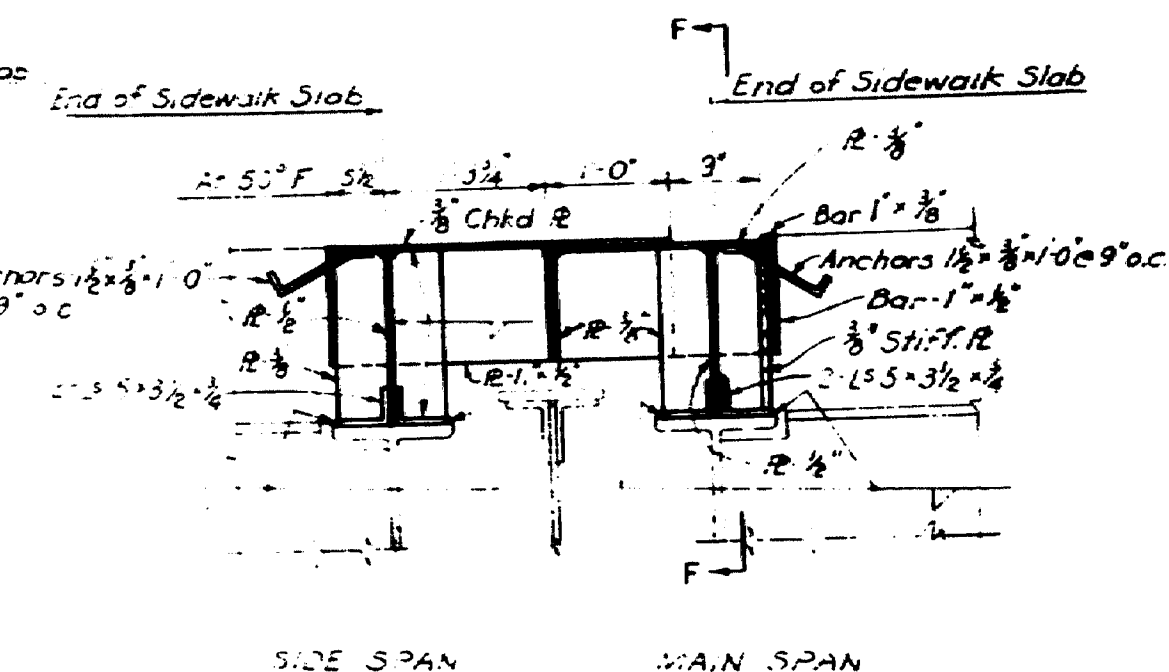
CROSS SECTION OF EXISTING STRUCTURE

Scale: $\frac{1}{2}$ " = 1'-0"

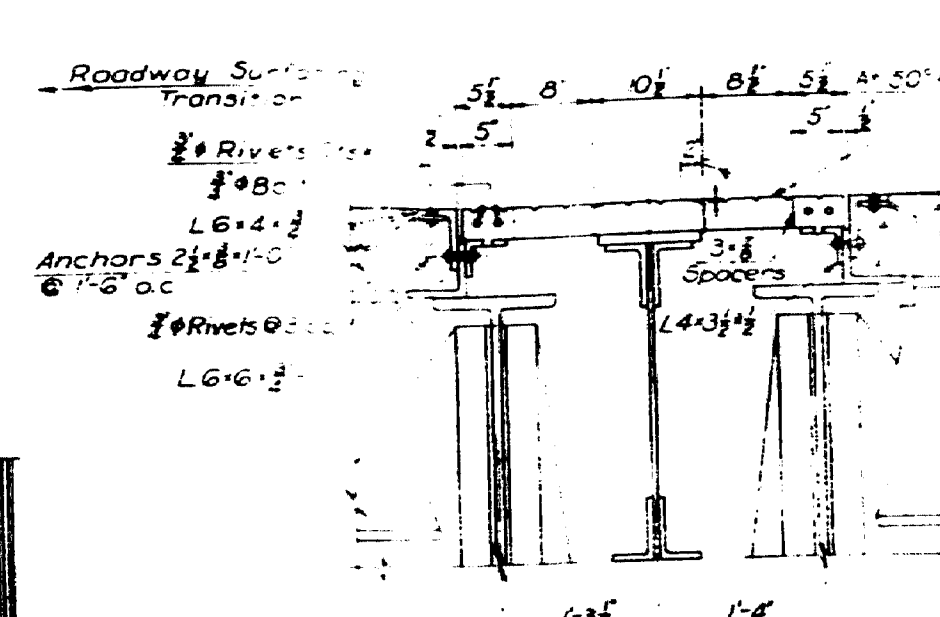
CROSS SECTION AT NEW EXPANSION JOINT



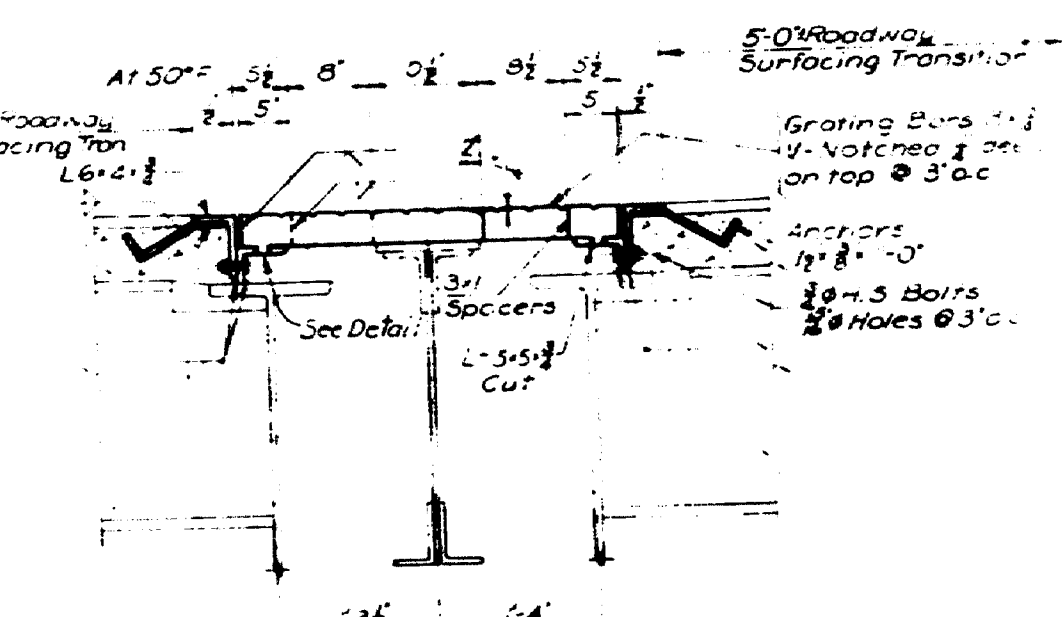
SECTION B-B
At Existing Curb,
Scale: $\frac{1}{4}$ " = 1'-0"



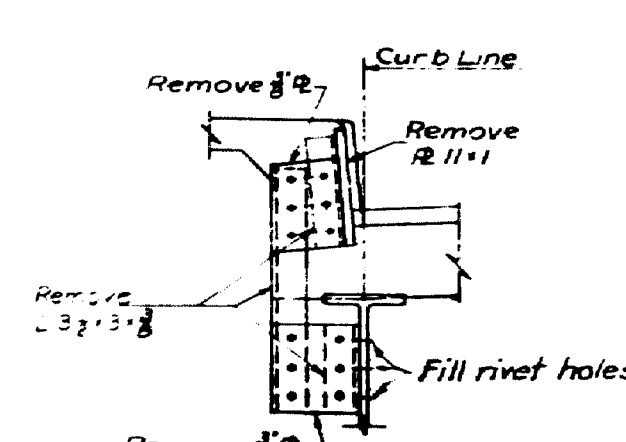
SECTION B'-B'
Scale: $\frac{1}{4}$ " = 1'-0"



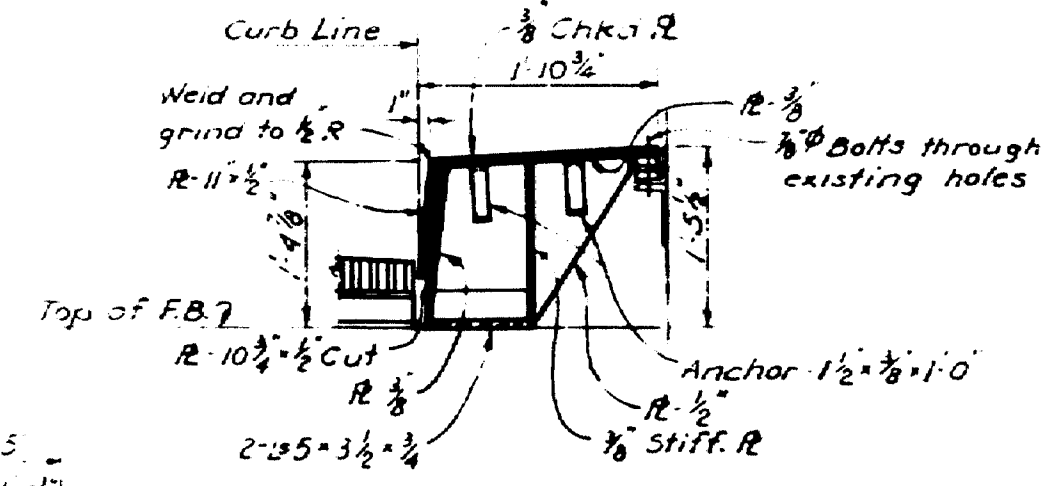
SECTION C-C
At Existing Roadway,
Scale: $\frac{1}{4}$ " = 1'-0"



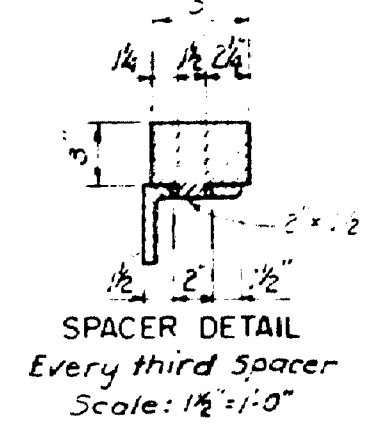
SECTION C'-C'
Scale: $\frac{1}{4}$ " = 1'-0"



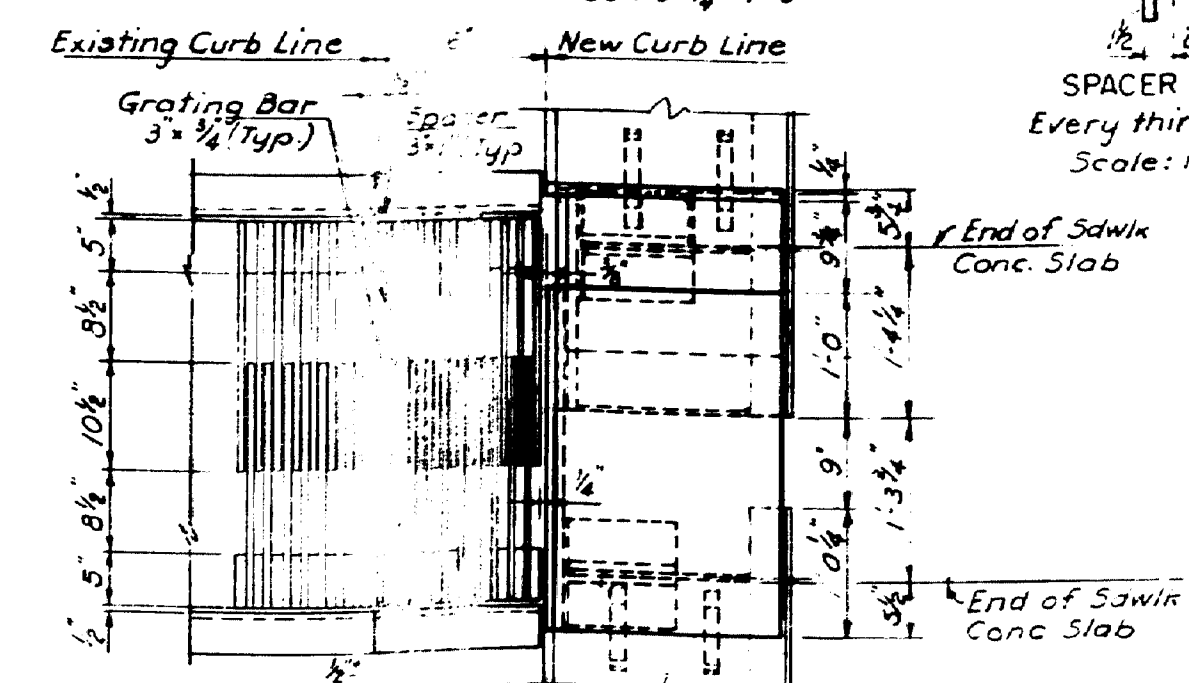
SECTION D-D
SECTION E-E SIMILAR
(At Existing Sidewalk)
Scale: $\frac{1}{4}$ " = 1'-0"



SECTION F-F
Scale: $\frac{1}{4}$ " = 1'-0"



SPACER DETAIL
Every third Spacer
Scale: $\frac{1}{2}$ " = 1'-0"



PLAN DETAIL OF NEW EXPANSION JOINT
Scale: $\frac{1}{4}$ " = 1'-0"

NOTES:
Existing material may be used.
All existing Anchors that are damaged shall be replaced.
All welds $\frac{1}{2}$ " except as shown.

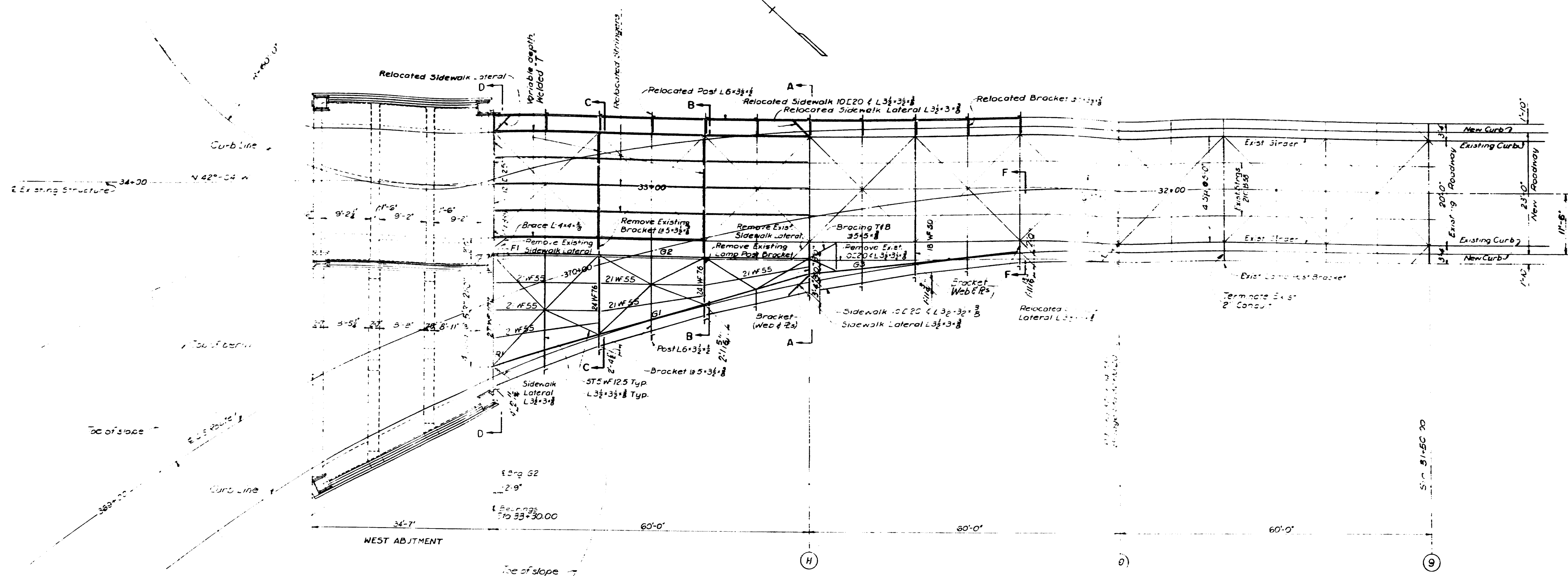
STATE HIGHWAY COMMISSION BRIDGE DIVISION AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE OVER PENOBSCOT RIVER BETWEEN THE TOWNS OF PROSPECT, WALDO COUNTY AND VERONA, HANCOCK COUNTY
EXPANSION JOINT AT TOWERS

SHEET 12 OF 21 SCALE As noted DATE Mar 17, 1961

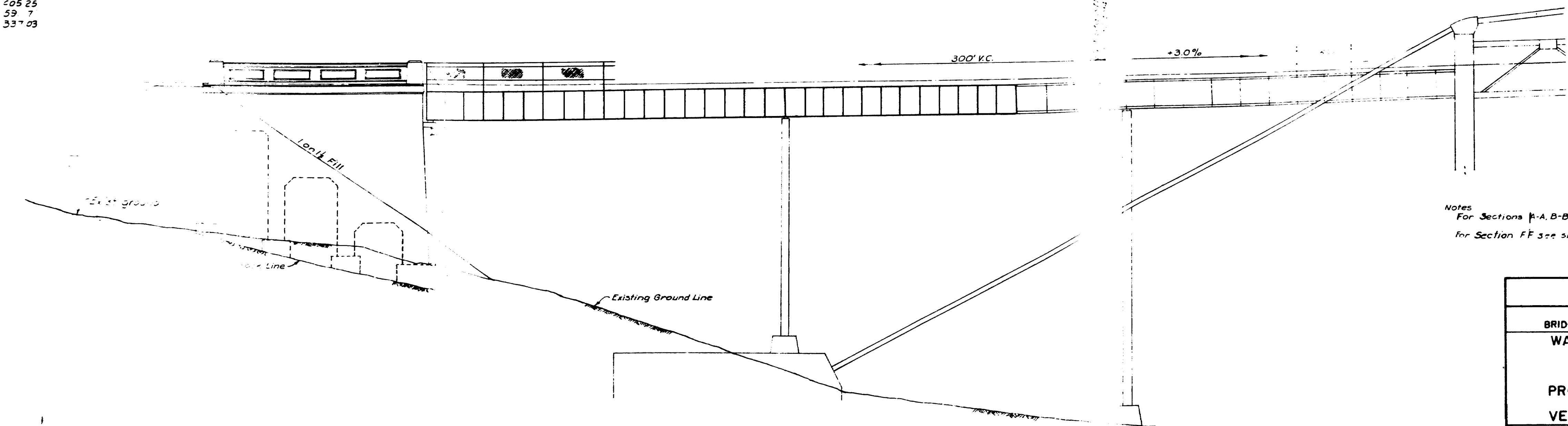
06-112

Design by A.I.Z.
Drawn by M.M.E.R.T.
Checked by E.M.
Engineer in Charge

STEINMAN, BOYNTON, GRONQUIST & LONDON
CONSULTING ENGINEERS
NEW YORK, N.Y.



PLAN



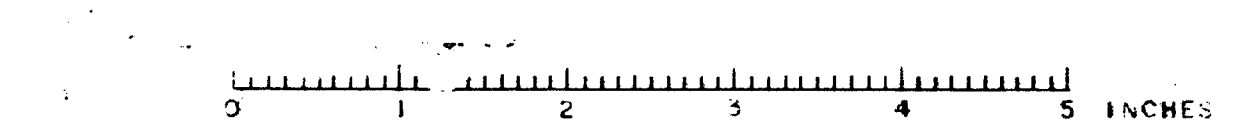
ELEVATION

Notes
For Sections A-A, B-B, C-C & D-D see sheet 14
For Section FF see sheet 15

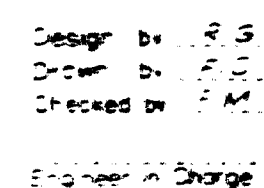
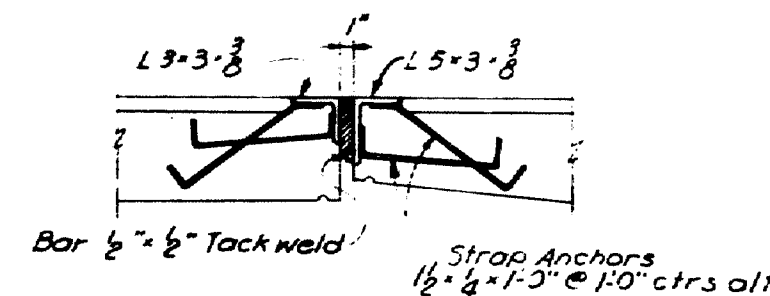
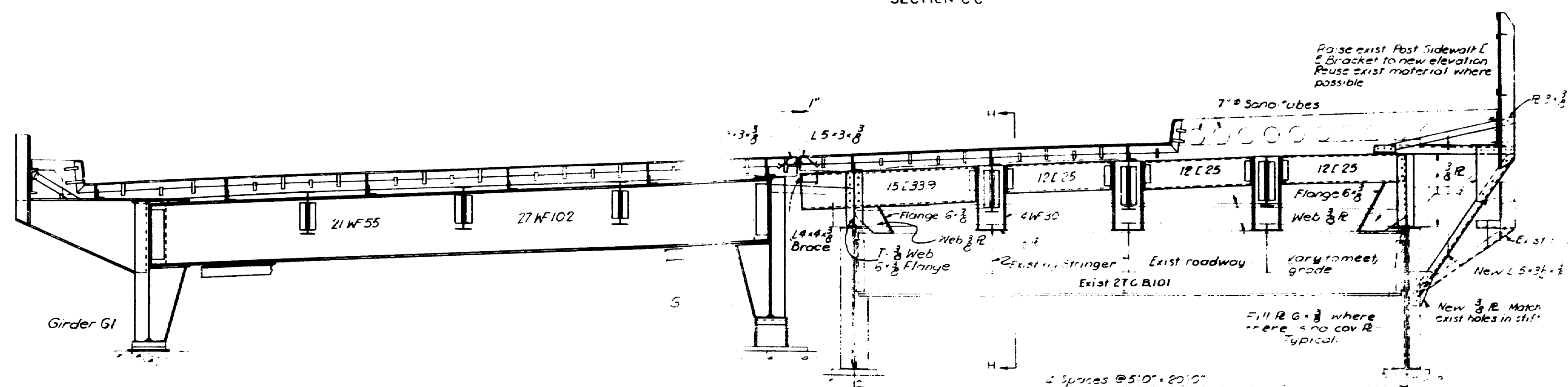
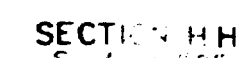
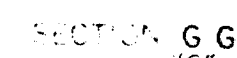
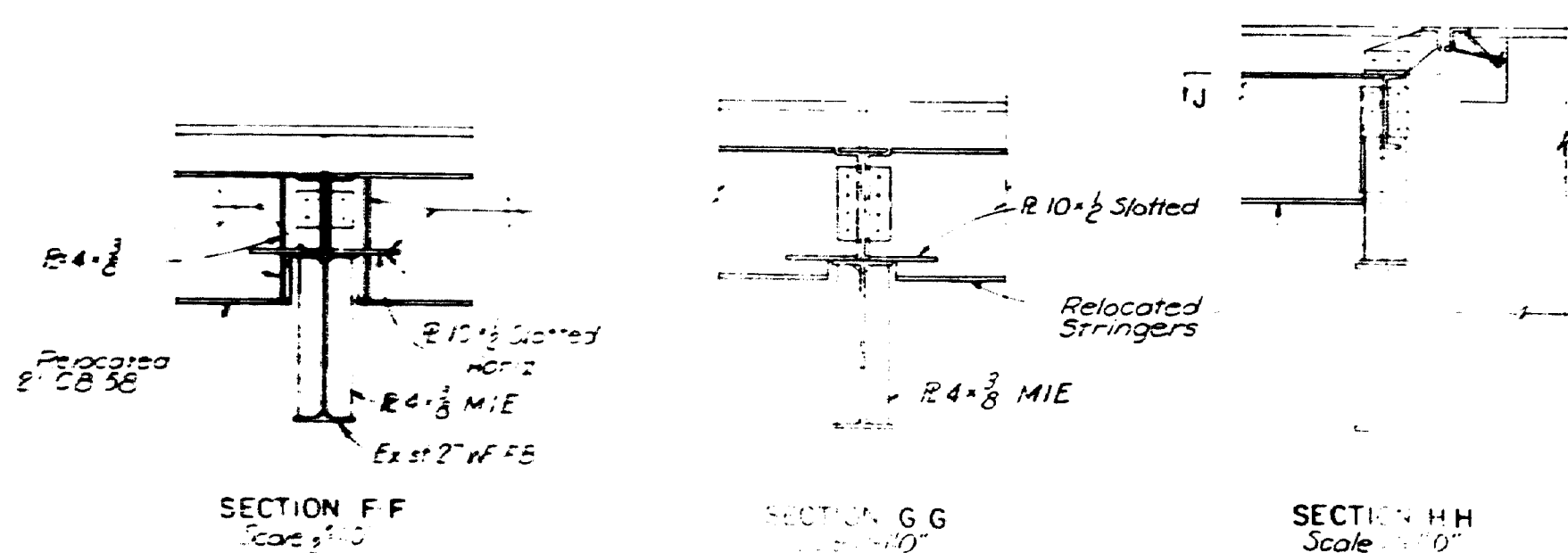
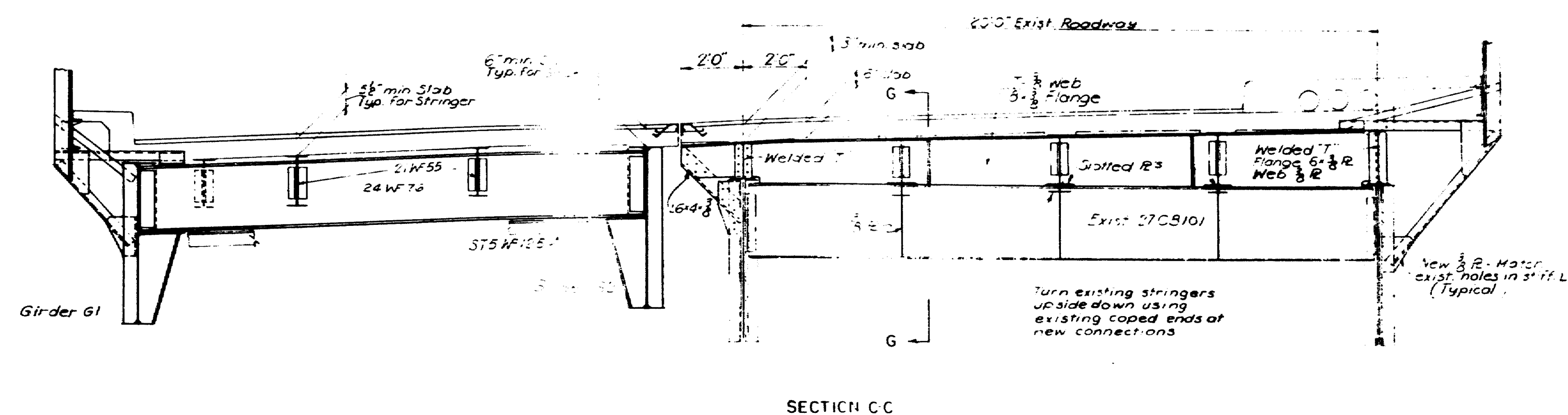
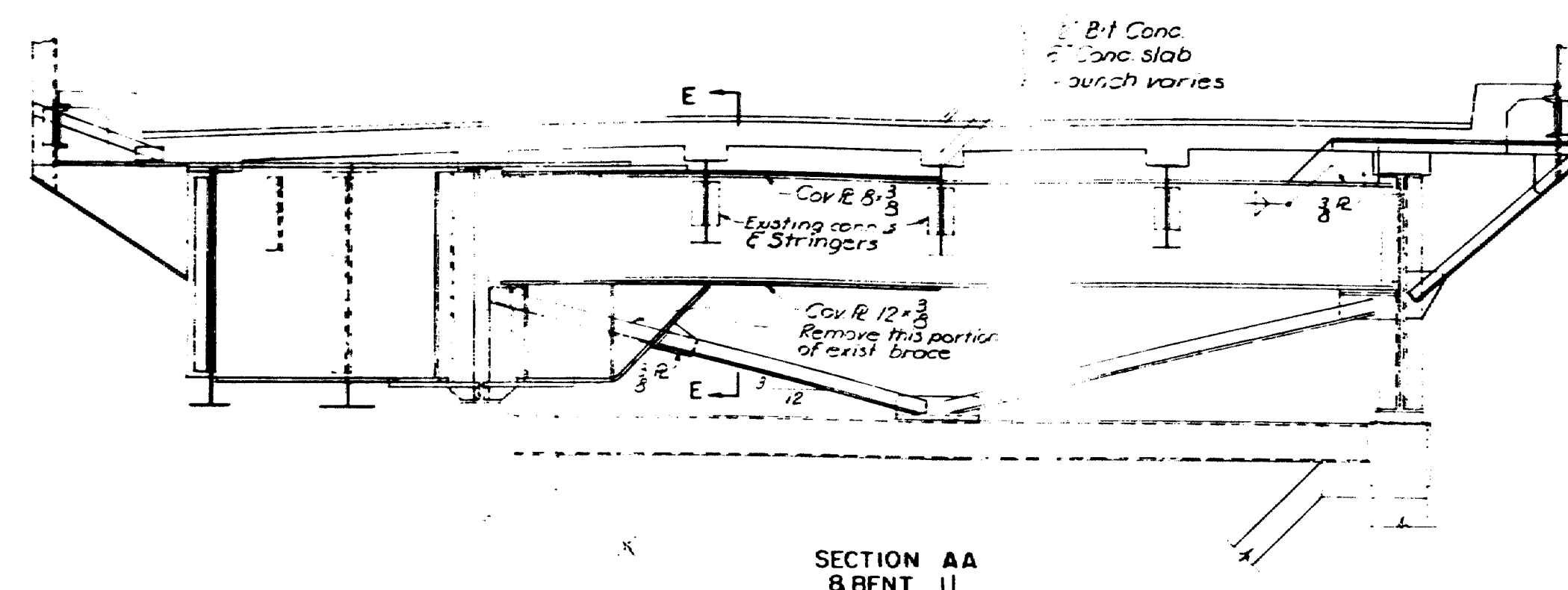
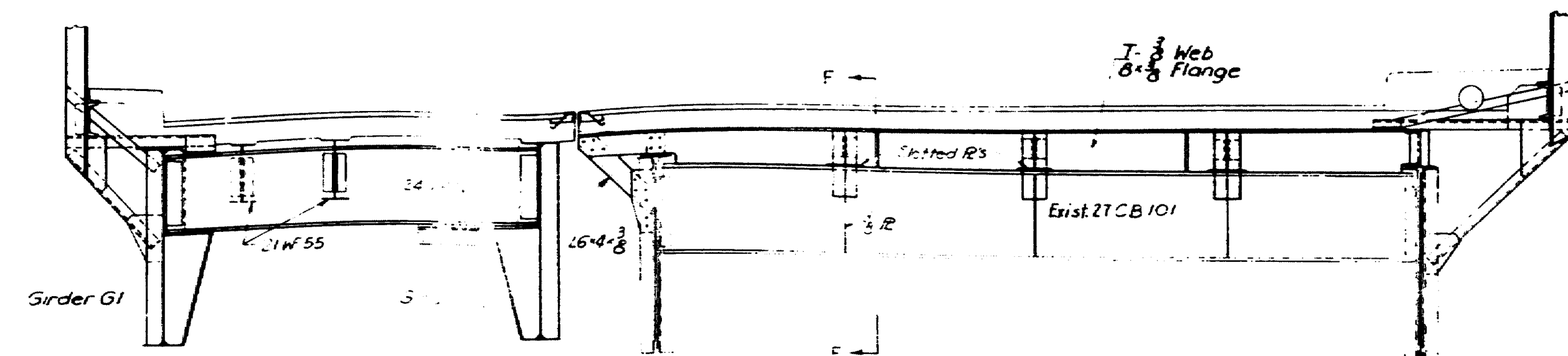
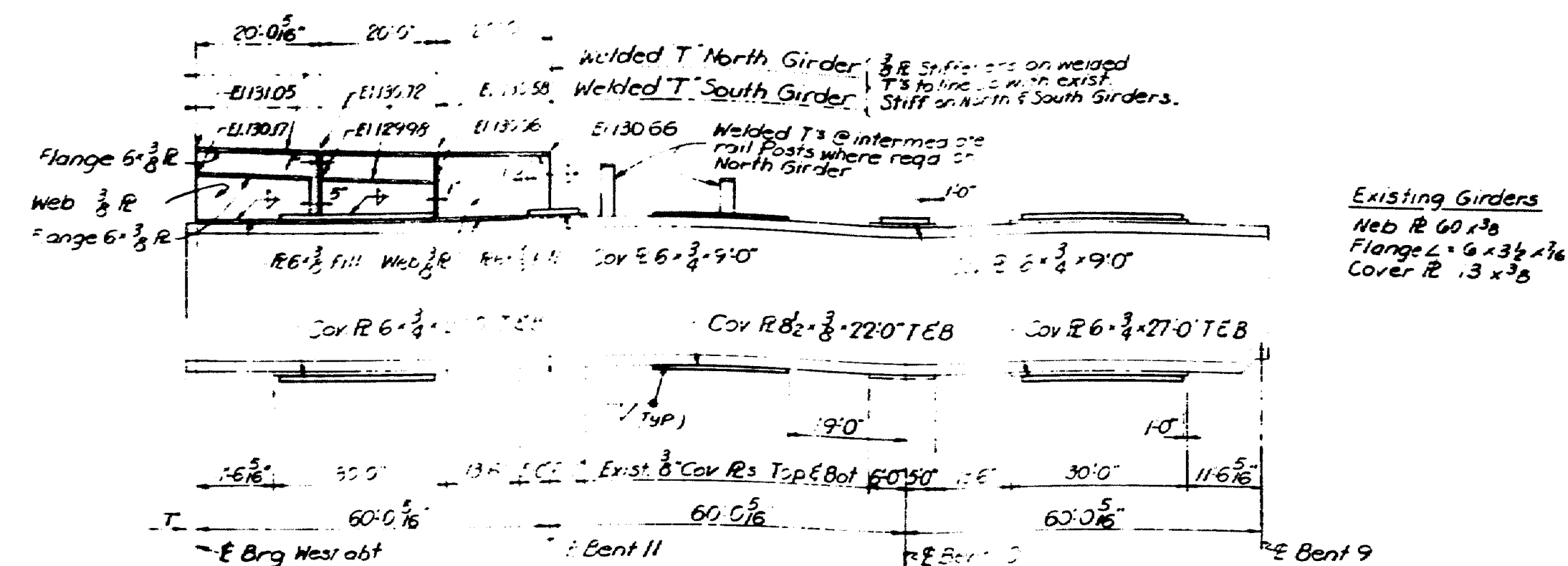
STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE	
OVER	
PENOBSCOT RIVER	
BETWEEN THE TOWNS OF	
PROSPECT, WALDO COUNTY	
AND	
VERONA, HANCOCK COUNTY	
FRAMING PLAN	
WEST APPROACH	
SHEET 13 OF 21	SCALE 1"=10'-0" DATE Mar 17, 1967

Design by P.S.
Drawn by J.H.
Checked by F.M.
Engineer in Charge

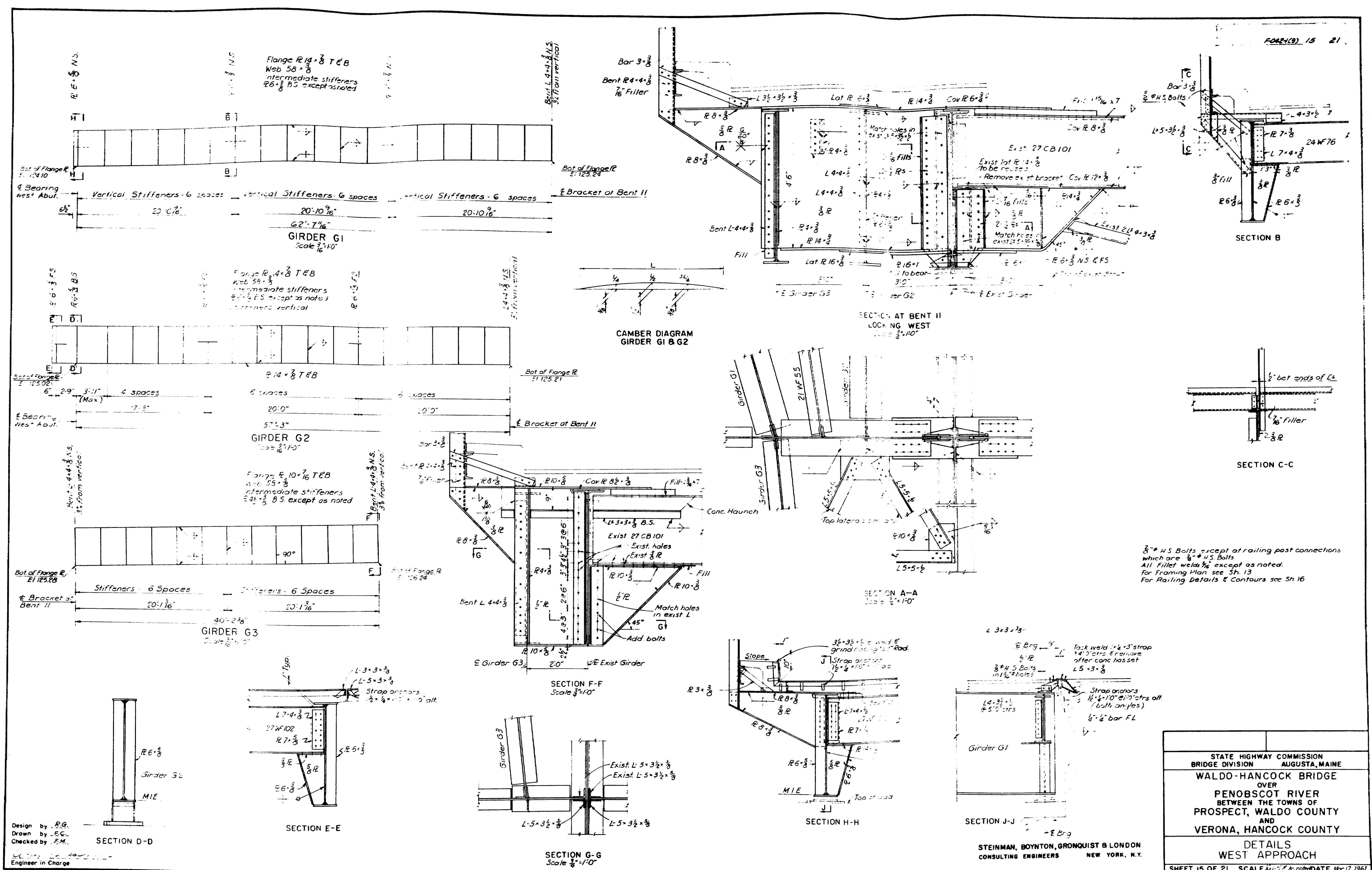
STEINMAN, BOYNTON, GRONQUIST & LONDON
CONSULTING ENGINEERS NEW YORK, N.Y.



86-113



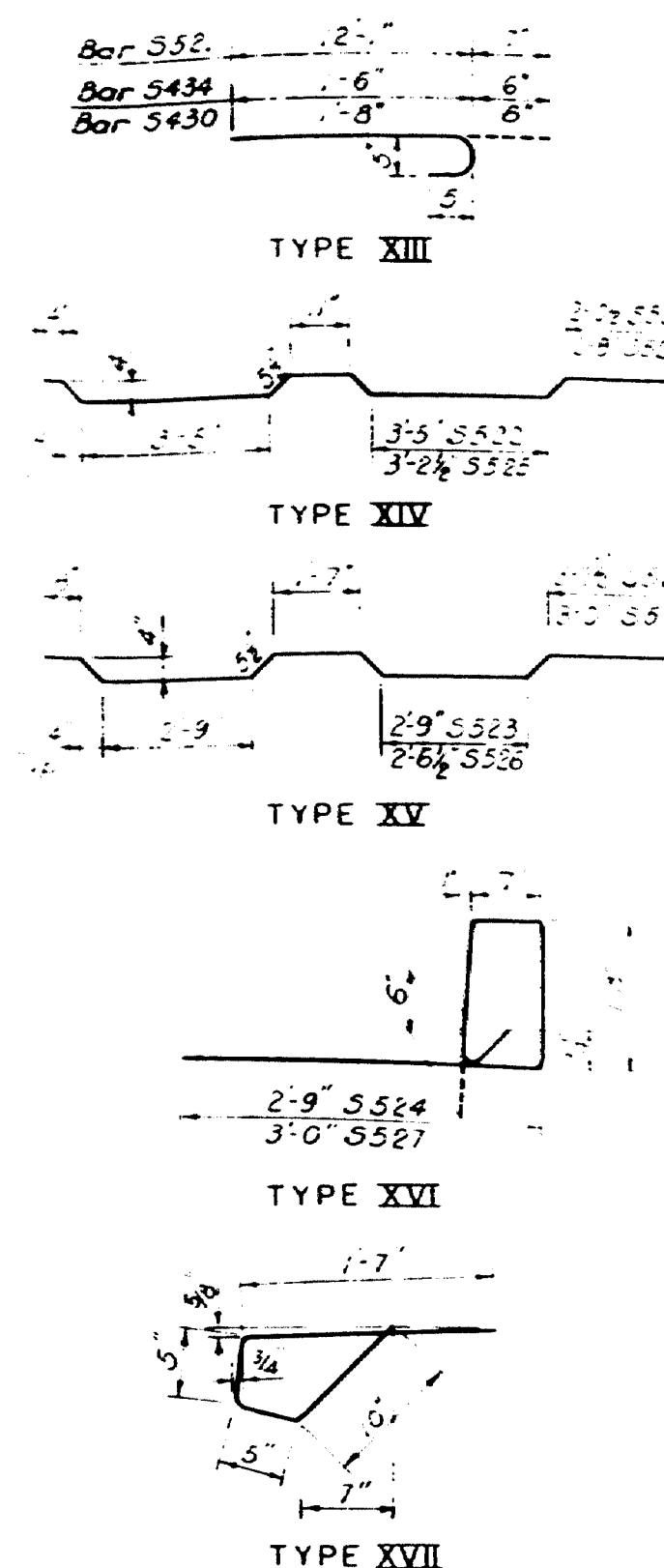
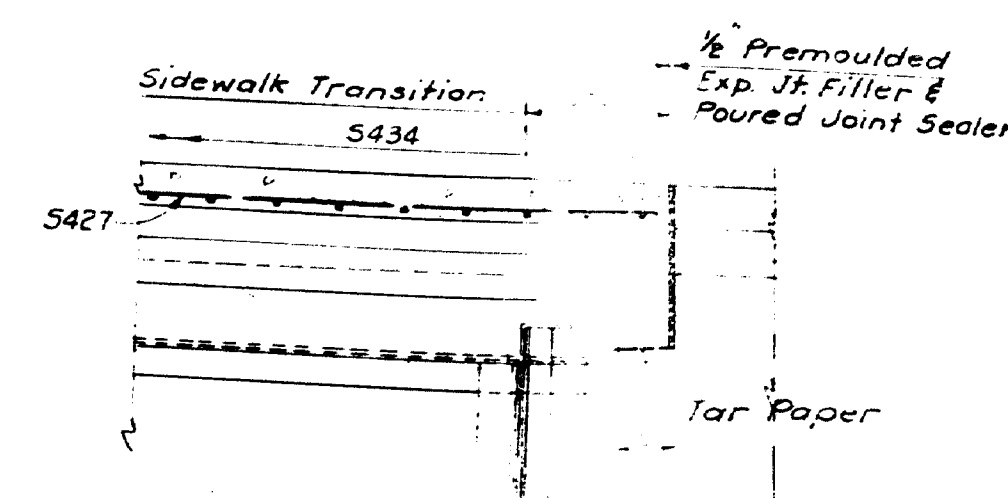
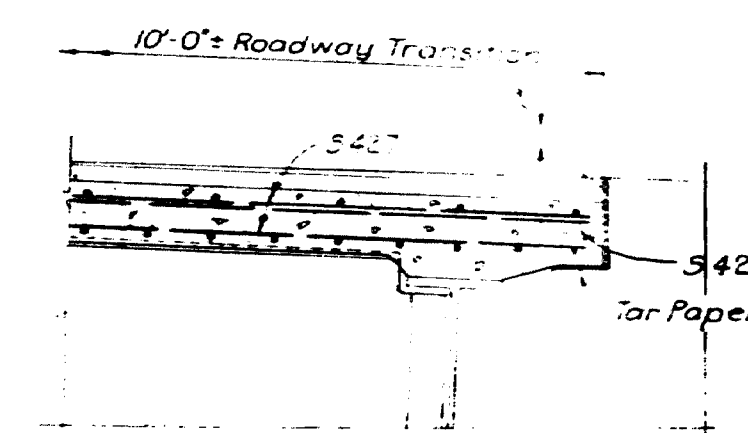
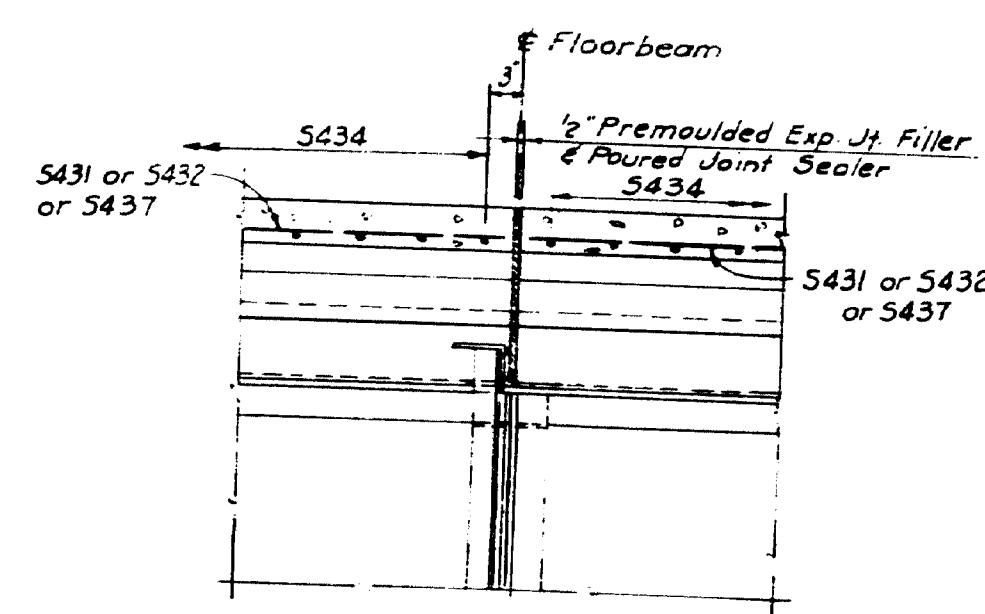
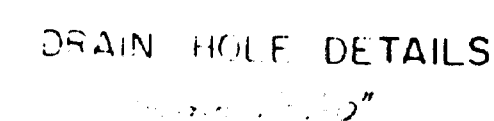
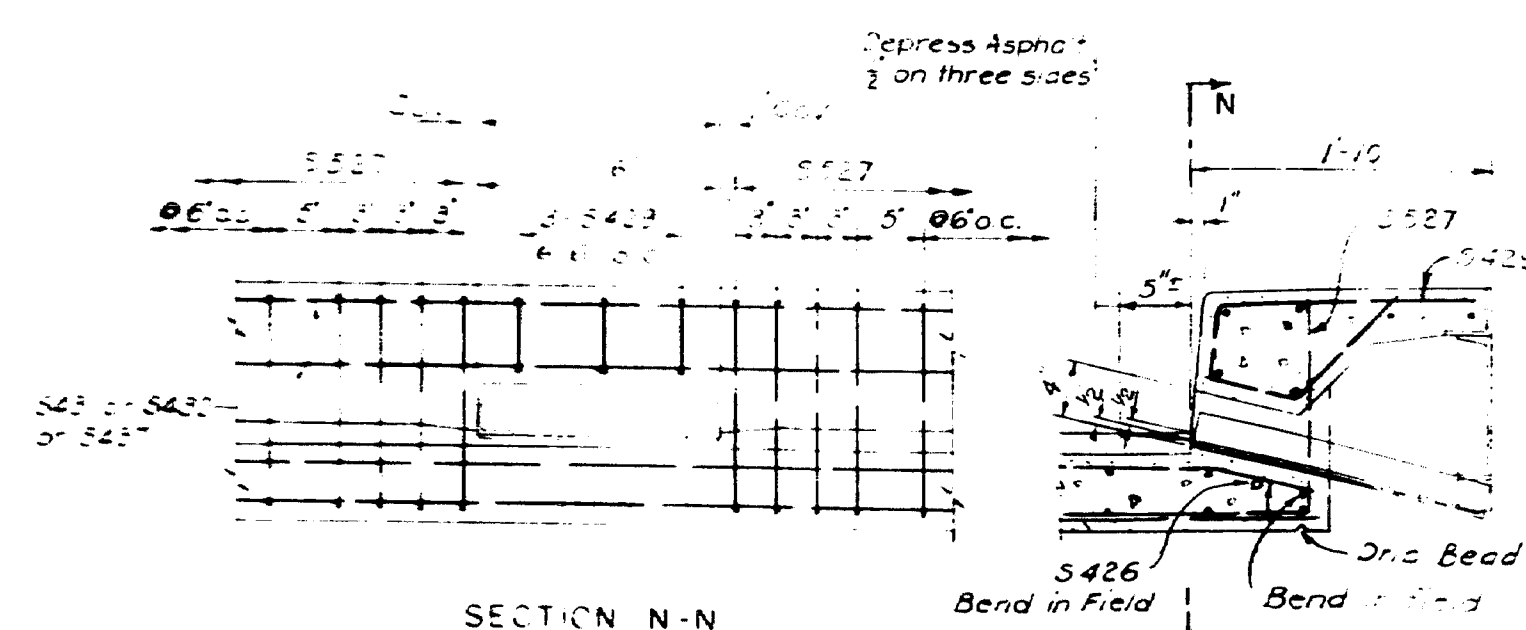
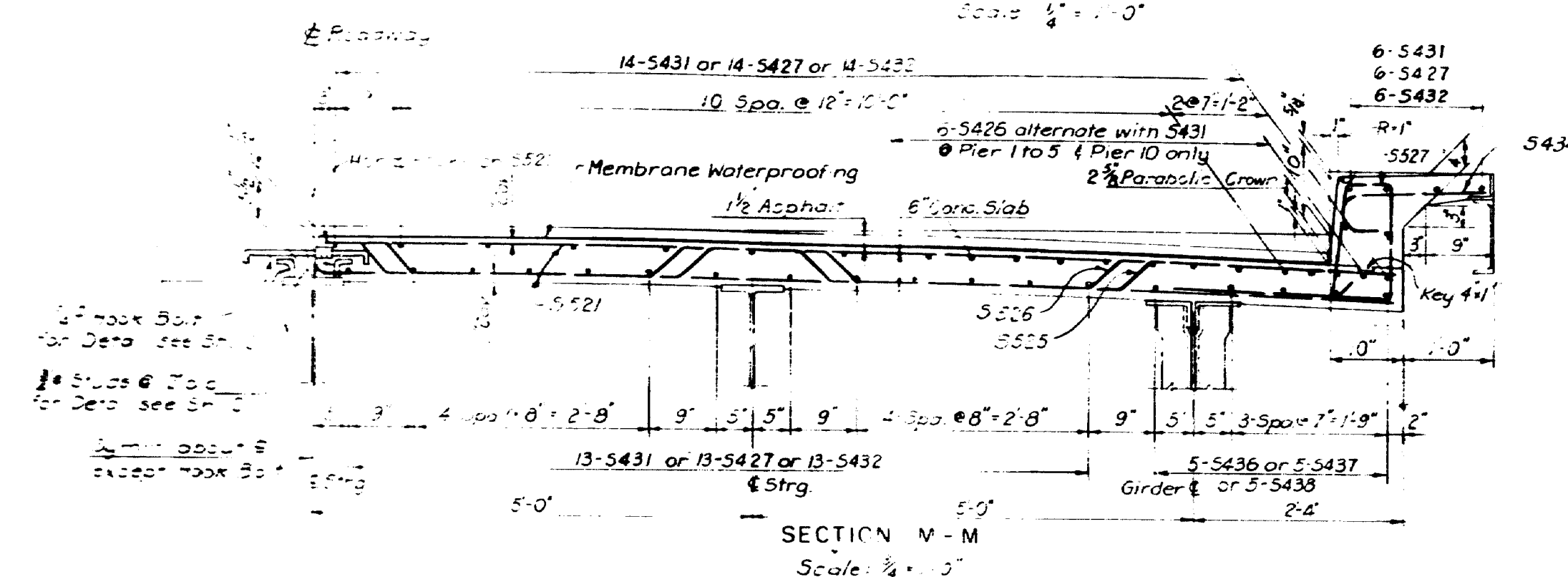
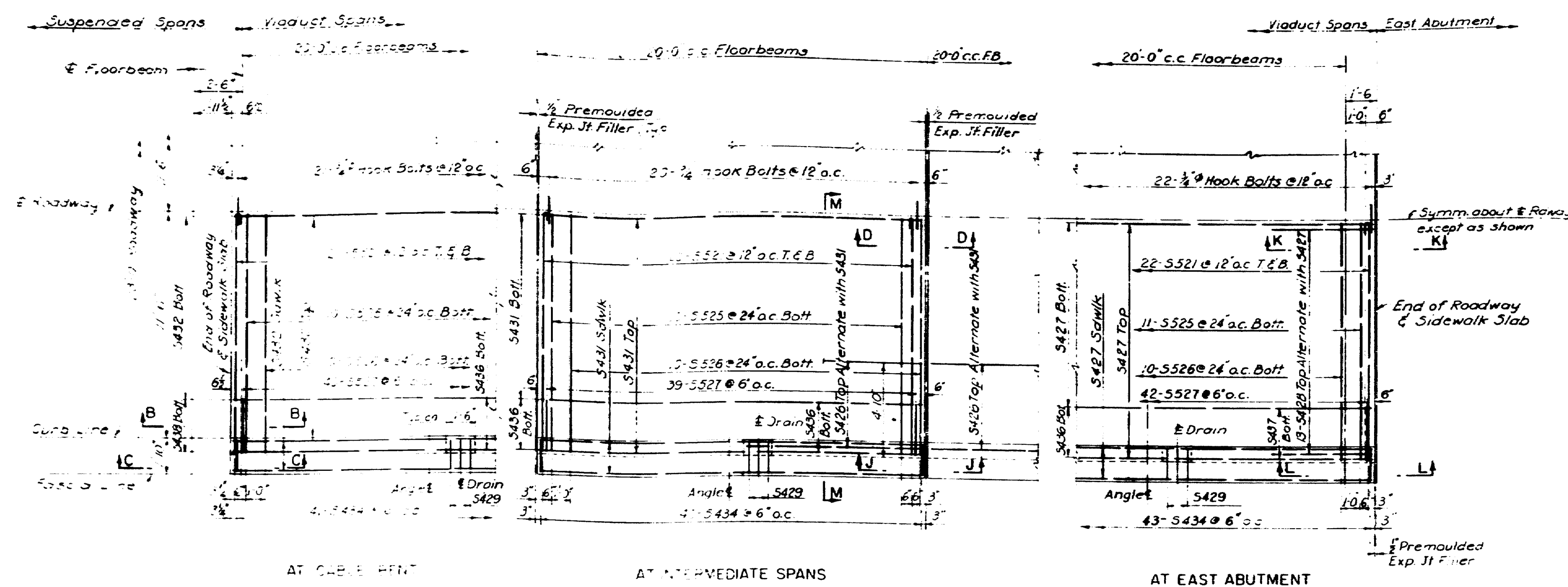
STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE	
OVER	
PENOBSCOT RIVER	
BETWEEN THE TOWNS OF	
PROSPECT, WALDO COUNTY	
AND	
VERONA, HANCOCK COUNTY	
CROSS-SECTIONS	
WEST APPROACH	
SHEET 14 OF 21	SCALE: 1" = 40' As noted DATE Mar. 17, 1961



3/8" x 45 Bolts - except at railing post connections which are 3/4" x 45 Bolts
All Fillet welds 1/8" except as noted.
For Framing Plan see Sh. 13
For Railing Details & Contours see Sh. 16

STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE	
OVER	
PENOBSCOT RIVER	
BETWEEN THE TOWNS OF	
PROSPECT, WALDO COUNTY	
AND	
VERONA, HANCOCK COUNTY	
DETAILS	
WEST APPROACH	
SHEET 15 OF 21 SCALE 1/4" = 1'-0" DATE Mar 17, 1961	

26-45



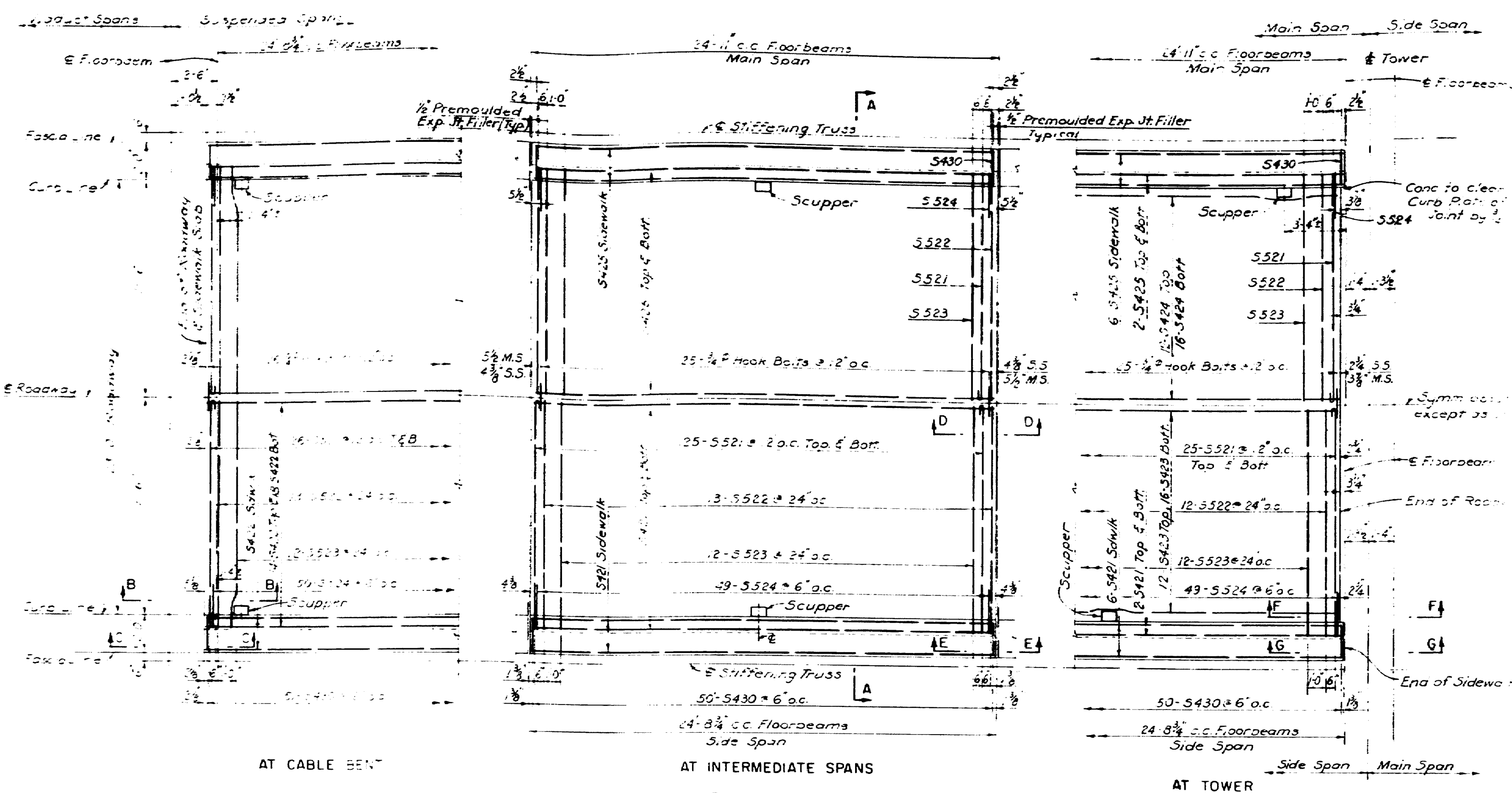
BAR	TYPE	SIZE	LENGTH	TOTAL REQUIRED	TOTAL WEIGHT	LOCATION
S500	<u>XVI</u>	45	12'-0"	6000	79374	M.S. & S.S.
S522	<u>XIV</u>		12'-7"	1552	22406	V.S.
S523	<u>XV</u>		12'-7"	440	10899	M.S. & S.S.
S524	<u>XVI</u>		6'-4"	5884	30868	M.S. & S.S.
S525	<u>XIV</u>		12'-7"	422	5538	V.S.
S526	<u>XV</u>		12'-7"	420	5512	V.S.
S527	<u>XVI</u>		6'-7"	1648	11316	V.S.
S528	Str	45	2'-10"	480	1418	M.S. & S.S.
S421	Str	44	24'-6"	864	32506	S.S.
S422	"		65'-2"	152	2555	S.S.
S423	"		24'-3"	112	1814	S.S.
S424	"		24'-5"	112	1827	M.S.
S425	"		24'-8"	2320	38227	M.S.
S426	"		9'-0"	132	734	V.S.
S427	"		21'-3"	66	937	V.S.
S428	Str		5'-0"	26	37	V.S.
S429	<u>XVI</u>		3'-3"	126	274	V.S.
S430	<u>XIII</u>		2'-2"	6004	8690	M.S. & S.S.
S431	Str		19'-9"	1188	5673	V.S.
S432	Str		20'-3"	132	1796	V.S.
S433	Str		1'-0"	960	1070	M.S. & S.S.
S434	<u>XIII</u>		2'-0"	1690	2258	V.S.
S435	Str		3'-3"	480	1042	M.S. & S.S.
S436	Str		9'-9"	390	2540	V.S.
S437	Str		11'-3"	10	75	V.S.
S438	Str	44	10'-3"	20	137	V.S.
				Total	373722	

ESTIMATED QUANTITIES			
ITEM	UNIT	QUANTITY	
		MSRSS	V.S. TOTAL
3.5" Conc. Surface Course Type A'	Tons	313.3	88.3 401.6
Membrane Waterproofing	Sq Yds	3824.5	1078.4 4902.9
Concrete Class A'	Cu Yds	822.0	229.4 1051.4
Shear Connectors	Ea.	3000	848 3848
Reinforcement	Lbs.	244637	67233

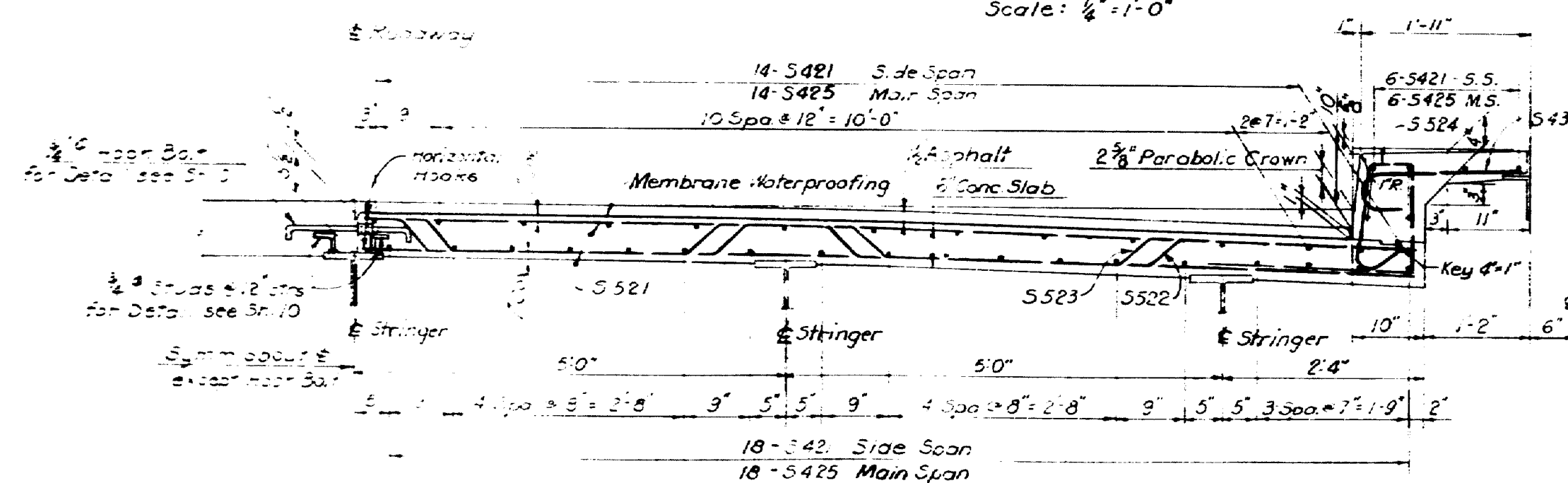
Note:
For Suspended Spans (M.S. & S.S.) and
Sect. B-B, C-C & D-D see Sheet 18

STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE	
OVER	
PENOBSCOT RIVER	
BETWEEN THE TOWNS OF	
PROSPECT, WALDO COUNTY	
AND	
VERONA, HANCOCK COUNTY	
CONCRETE DECK	
VIADUCT SPANS	
SHEET 17 OF 21	SCALE As noted DATE Mar 17/56

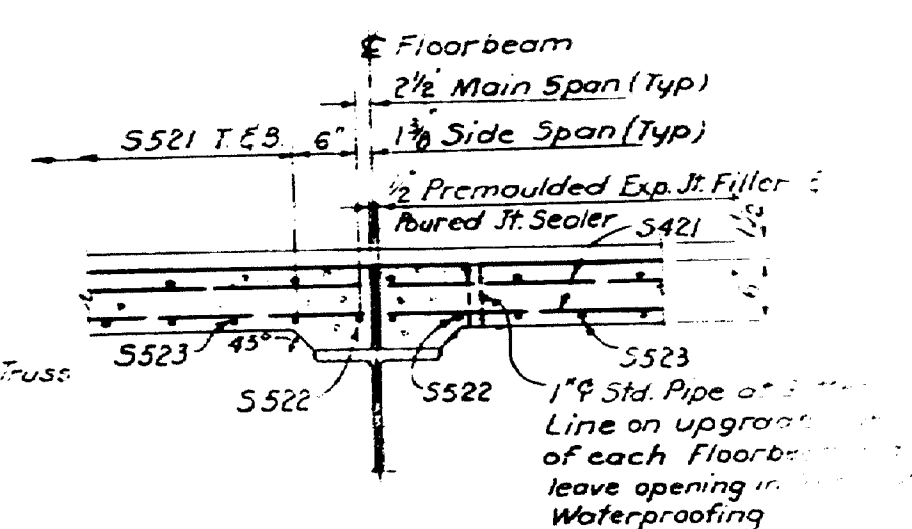
06-117



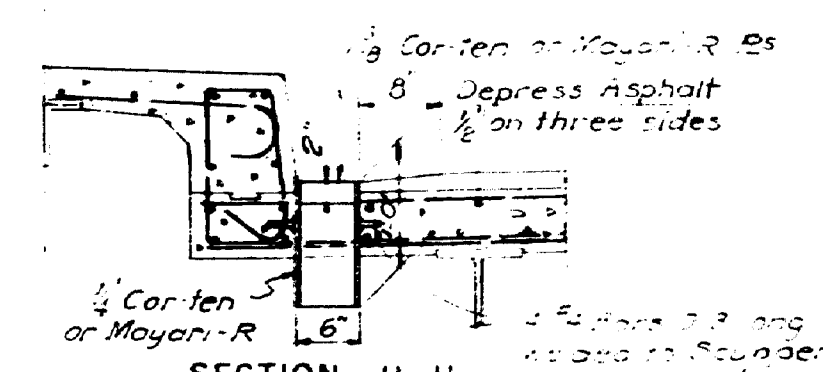
AT TOWER



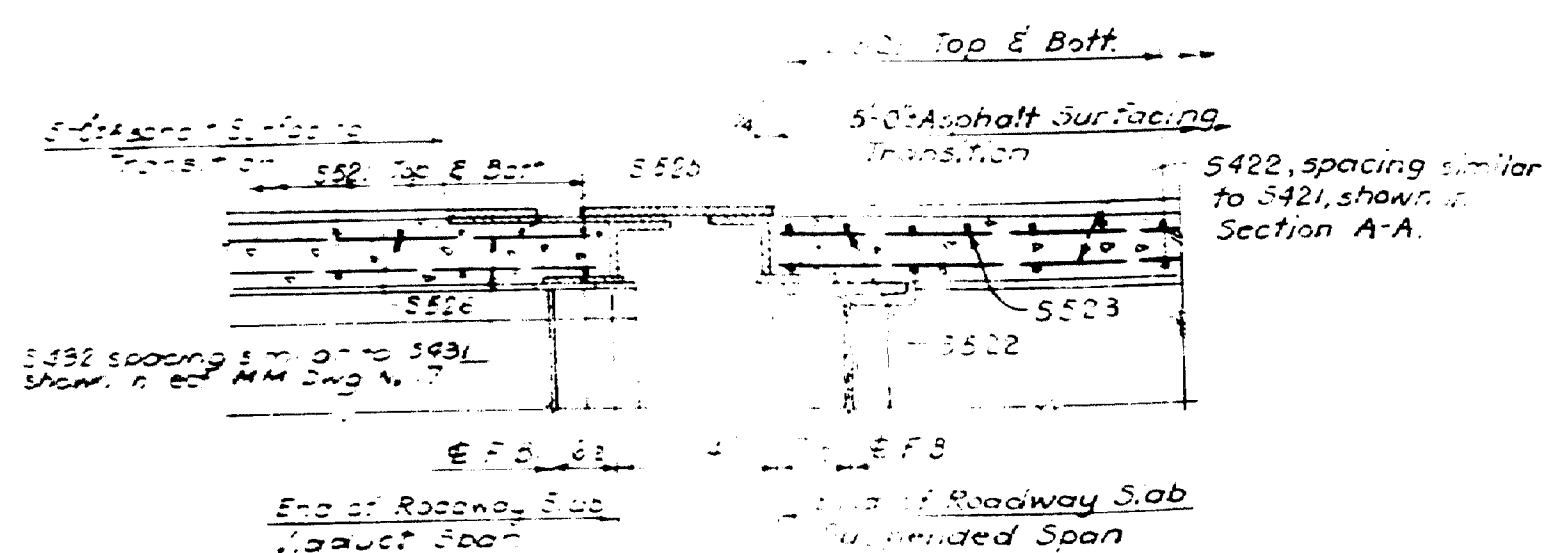
SECTION A-A



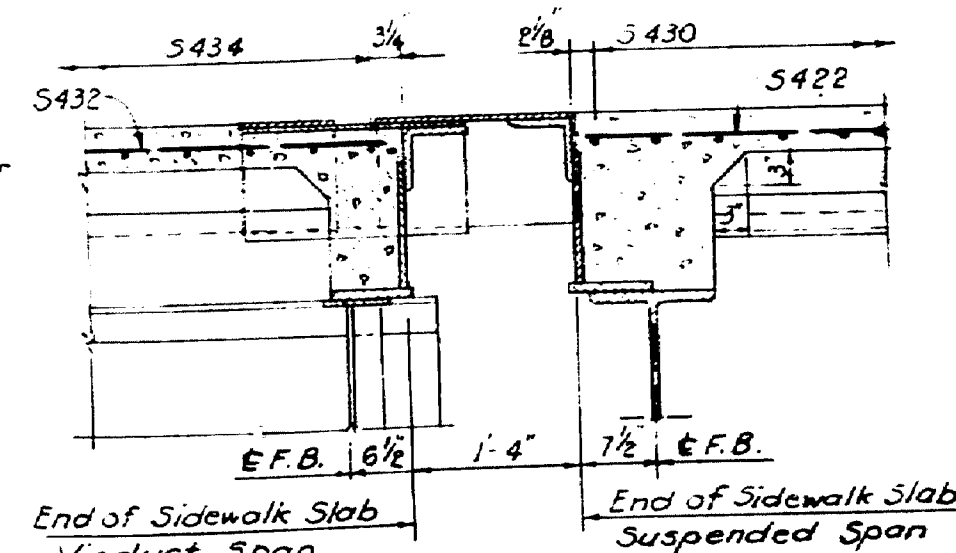
SECTION D-D



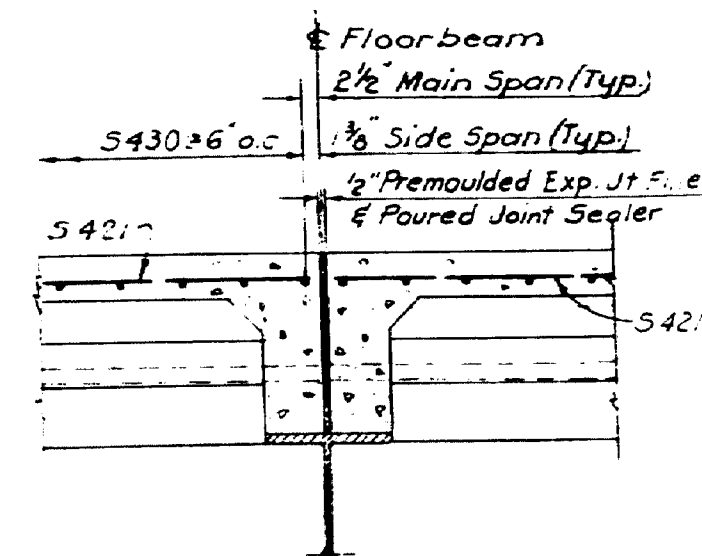
SECTION H-H



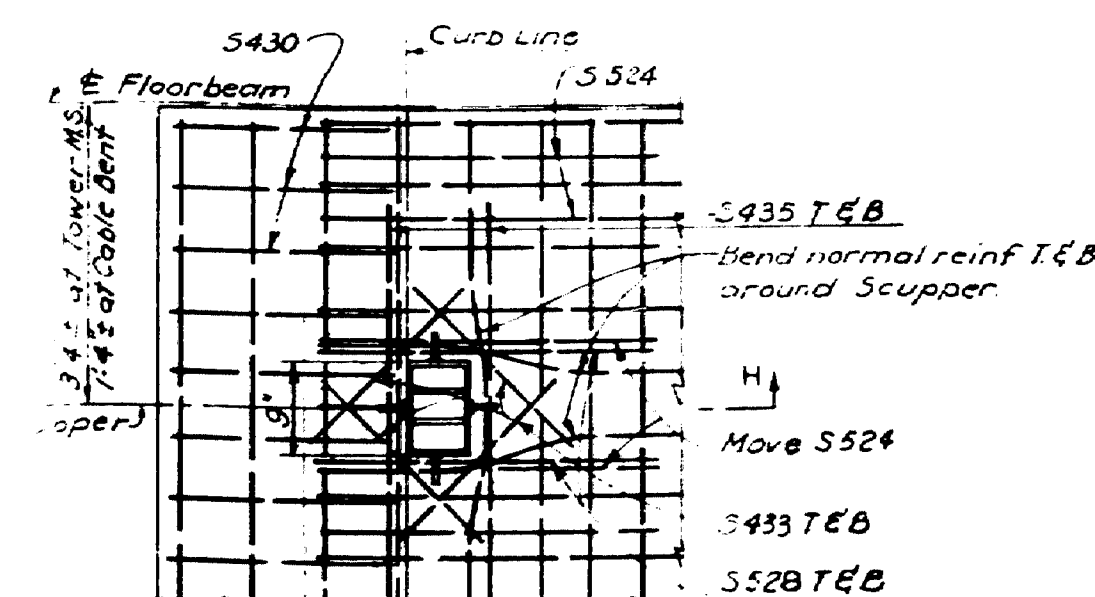
SECTION B-B



SECTION C - C



SECTION E-E



SCUPPER DETAILS

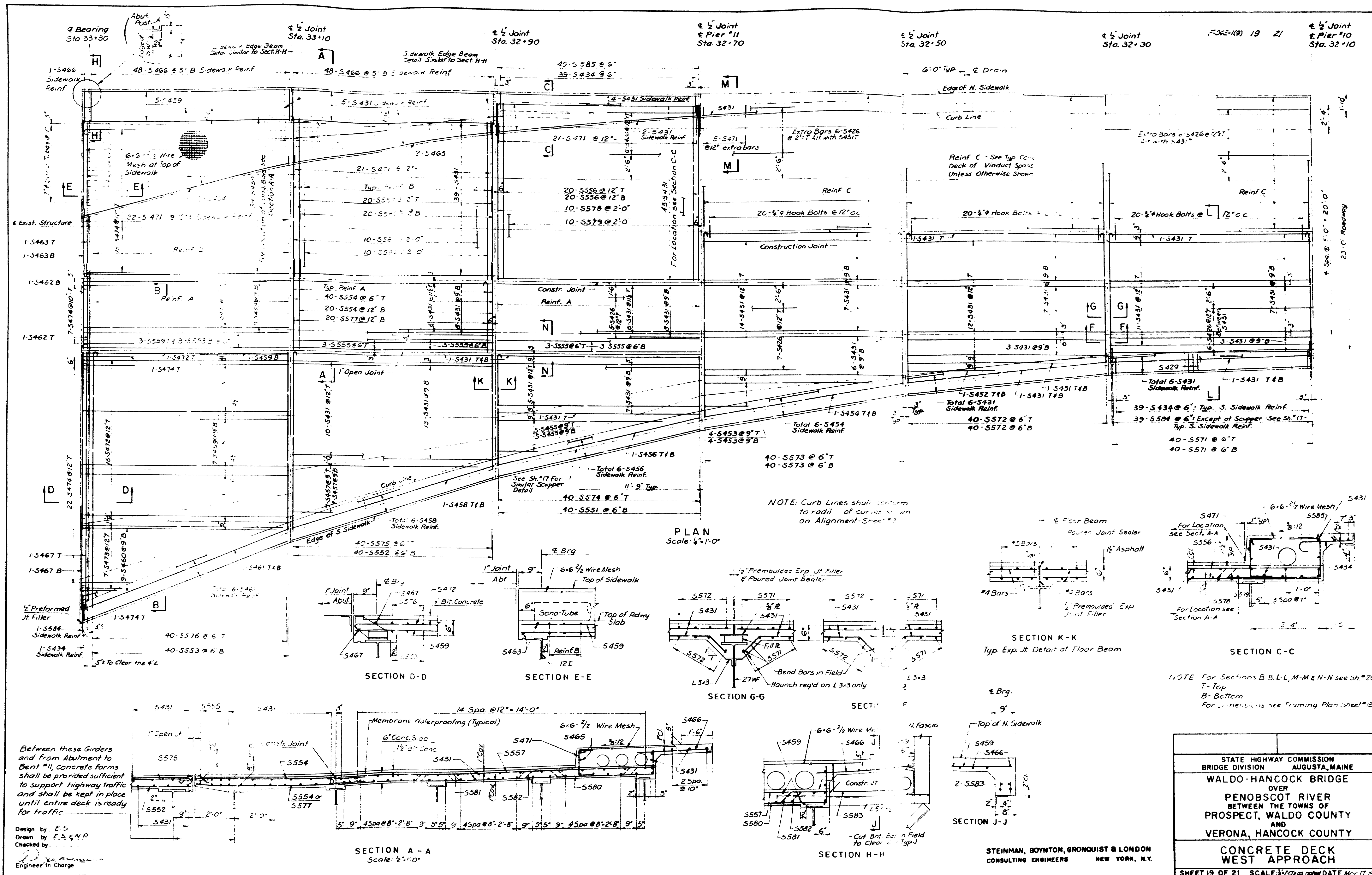
For 30- list see Sh 17
S.S - Side Span
M.S. Main Span

Design by J.P.
Drawn by R.T.
Checked by R.S.
Engineer - Charge

STEINMAN, BOYNTON, GRONQUIST & LONDON
CONSULTING ENGINEERS **NEW YORK, N.Y.**

STATE HIGHWAY COMMISSION BRIDGE DIVISION		AUGUSTA, MAINE	
WALDO-HANCOCK BRIDGE OVER PENOBSCOT RIVER BETWEEN THE TOWNS OF PROSPECT, WALDO COUNTY AND VERONA, HANCOCK COUNTY			
CONCRETE DECK SUSPENDED SPANS			
SHEET 18 OF 21 SCALE 2" = 1' AS NOTED DATE Mar. 17, 1964			

86-118



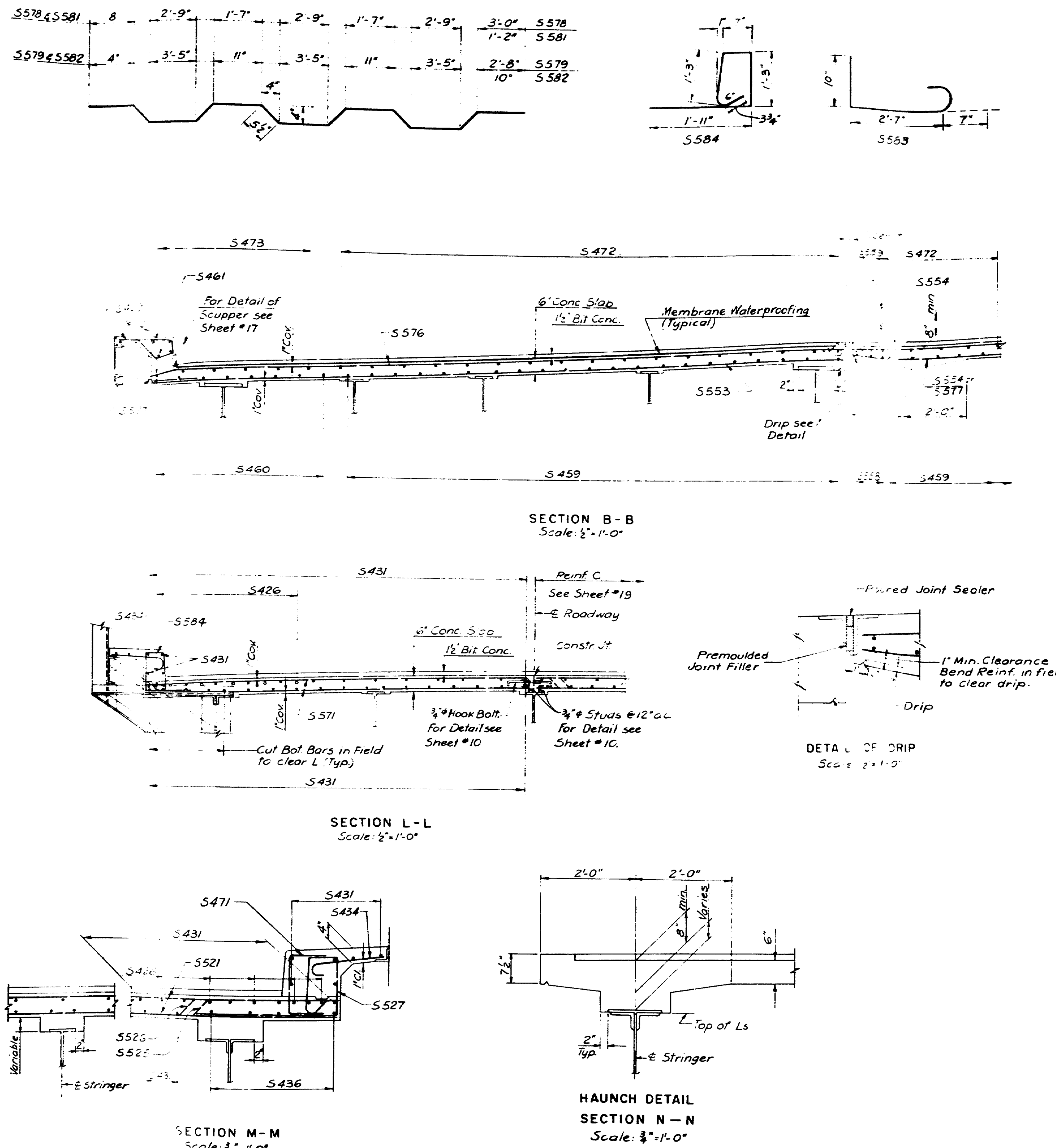
STATE HIGHWAY COMMISSION	
BRIDGE DIVISION	AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE	
OVER	
PENOBSCOT RIVER	
BETWEEN THE TOWNS OF	
PROSPECT, WALDO COUNTY	
AND	
VERONA, HANCOCK COUNTY	
CONCRETE DECK	
WEST APPROACH	
SHEET 19 OF 21 SCALE: 1/4"=1'-0" as noted DATE: Mar. 17, 1961	

26-119

BAR	TYPE	DIMENSIONS			SIZE	LENGTH	NO. REQD	TOTAL WT.
		a	b	c				
S426	Str				#4	9'-0"	36	216
S429	XVII				#4	3'-3"	27	60
S431	Str				#4	19'-9"	370	4881
S434	XIII				#4	2'-0"	394	526
S436	Str				#4	9'-9"	30	195
S451	Str				#4	5'-6"	2	21
S452					#4	8'-6"	2	11
S453					#4	4'-6"	2	56
S454					#4	20'-0"	8	107
S455					#4	4'-6"	2	67
S456					#4	20'-3"	8	108
S457					#4	4'-6"	2	104
S458					#4	20'-8"	8	110
S459					#4	20'-6"	8	1013
S460					#4	5'-6"	2	69
S461					#4	22'-0"	8	118
S462					#4	5'-3"	2	11
S463					#4	5'-4"	2	20
S464					#4	21'-2"	2	28
S465					#4	20'-3"	2	27
S466					#4	3'-3"	97	211
S467	Str				#4	24'-8"	2	33
S471	XIII	9"	1'-3"	9"	#4	2'-9"	29	127
S472	XIII	20'-6"	6"		#4	21'-0"	23	323
S473	XIII	20'-0"	6"		#4	21'-0"	17	58
S474	XIII	5'-0"	6"		#4	5'-6"	46	169
S521	XIII				#5	2'-8"	120	1585
S525	XIV				#5	12'-7"	30	394
S526	XIV				#5	12'-7"	30	394
S527	XVI				#5	6'-7"	117	803
S551	Str				#5	6'-3"	2	351
S552					#5	19'-9"	2	582
S553					#5	17'-1"	2	473
S554					#5	8'-7"	180	1611
S555					#5	19'-9"	12	247
S556					#5	17'-1"	40	713
S557					#5	15'-3"	40	636
S558	Str				#5	20'-6"	3	64
S559	XIII	20'-6"	7"		#5	21'-1"	3	66
S571	XIII	12'-0"	7"		#5	12'-0"	80	1070
S572		14'-5"	7"		#5	14'-5"	90	1178
S573		14'-5"	7"		#5	14'-5"	60	1401
S574		17'-8"	7"		#5	17'-8"	2420	375
S575		16'-10"	7"		#5	16'-10"	2420	607
S576		17'-2"	7"		#5	17'-2"	2420	897
S577	XIII	6'-8"	7"		#5	7'-3"	60	453
S578	Sketch				#5	17'-0"	6	136
S579	Sketch				#5	17'-0"	6	186
S580	I	1'-2"	15'-3"		#5	16'-5"	40	685
S581	Sketch				#5	6'-0"	20	334
S582					#5	10'-0"	20	334
S583					#5	4'-0"	3	33
S584	Sketch				#5	5'-0"	235	1348
S585	VIII	1'-0"	1'-3"	3'-0"	#5	5'-3"	40	219
Total							15,248	
							26,294	

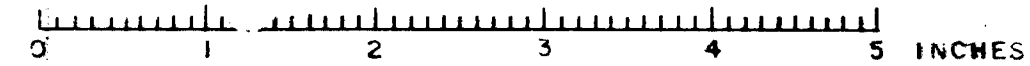
Design by E.S.
 Drawn by M.B.
 Checked by R.G.
 Engineer in Charge

* Revised 12/13/61
 C.M.B.

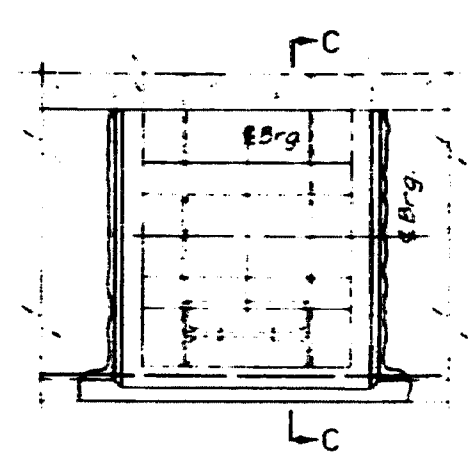


STATE HIGHWAY COMMISSION BRIDGE DIVISION AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE OVER PENOBSCOT RIVER BETWEEN THE TOWNS OF PROSPECT, WALDO COUNTY AND VERONA, HANCOCK COUNTY
CONCRETE DECK WEST APPROACH
SHEET 20 OF 21 SCALE: As noted DATE: Mar. 17, 1961

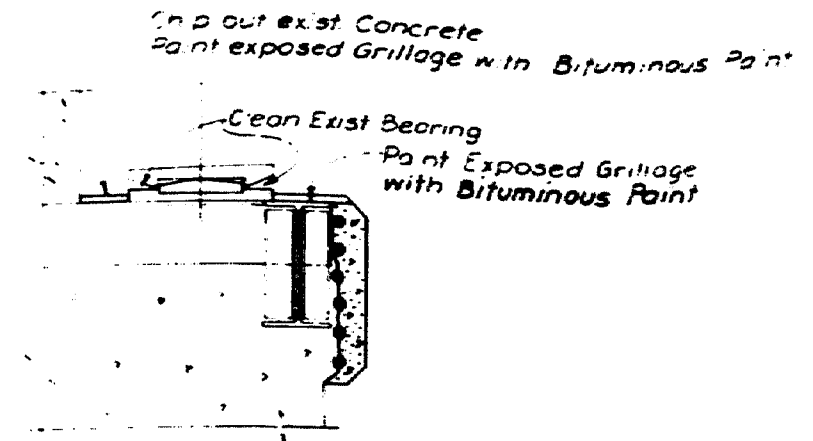
STEINMAN, BOYNTON, GRONQUIST & LONDON
 CONSULTING ENGINEERS NEW YORK, N.Y.



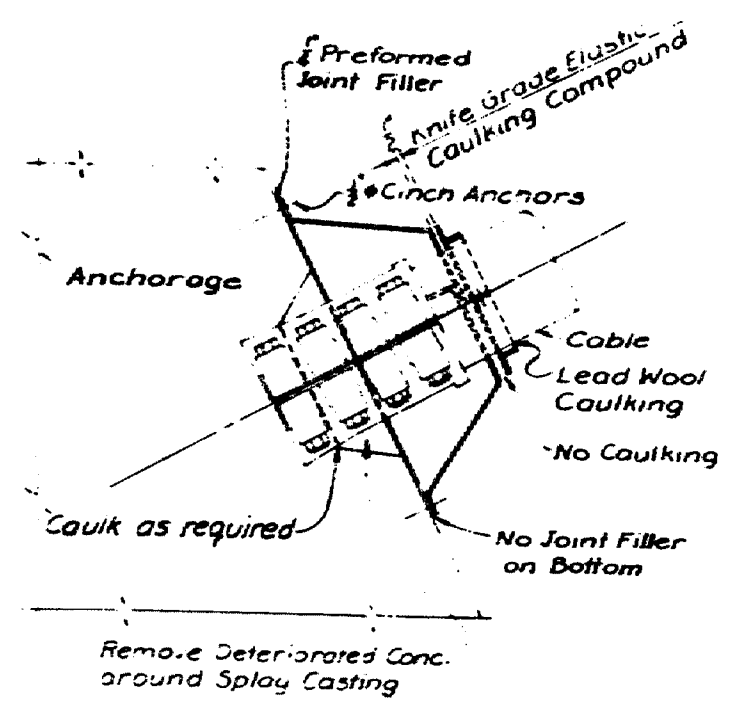
86-120



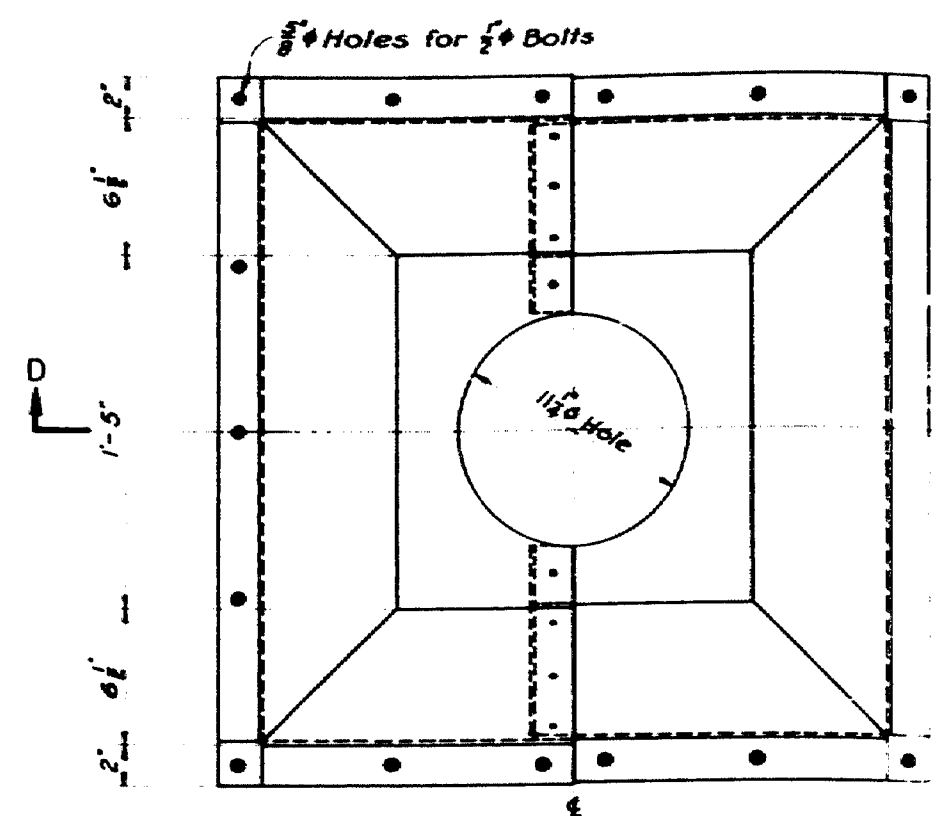
PLAN



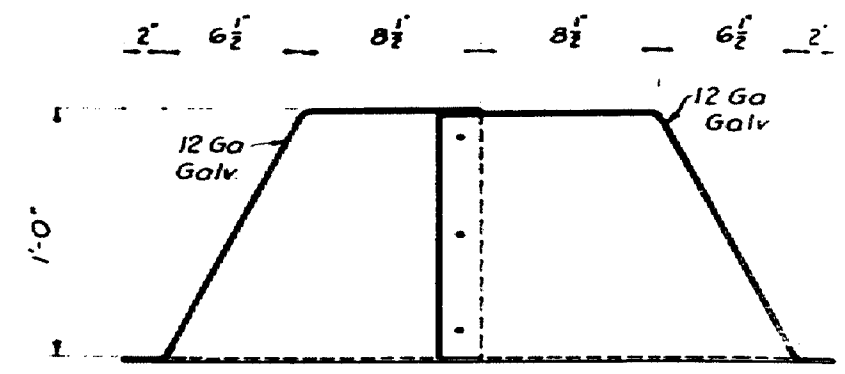
SECTION C-C



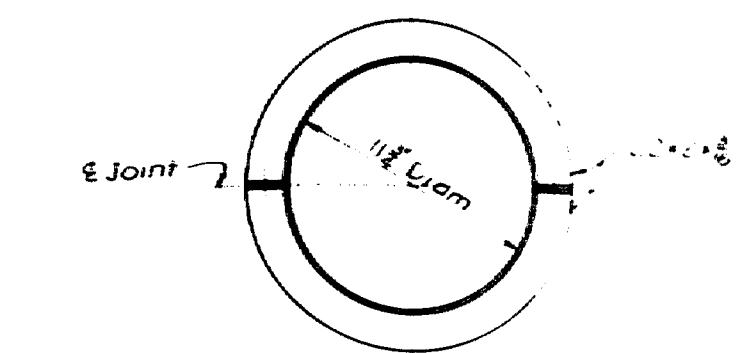
DETAIL OF LAP JOINT
Scale: 3"=1'-0"



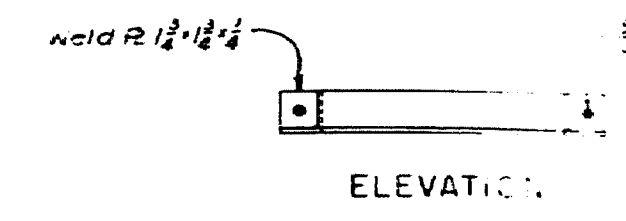
PLAN OF SHIELD
Scale: 1 1/2"=1'-0"



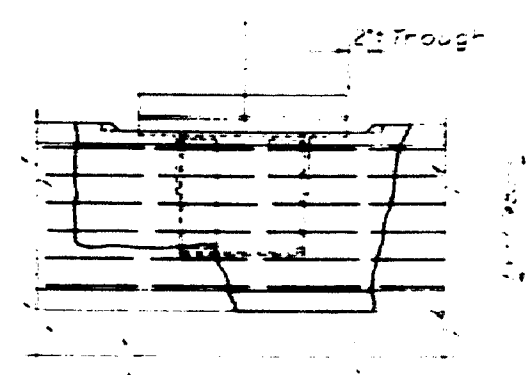
SECTION D-D



PLAN OF COLLAR
Scale: 1 1/2"=1'-0"



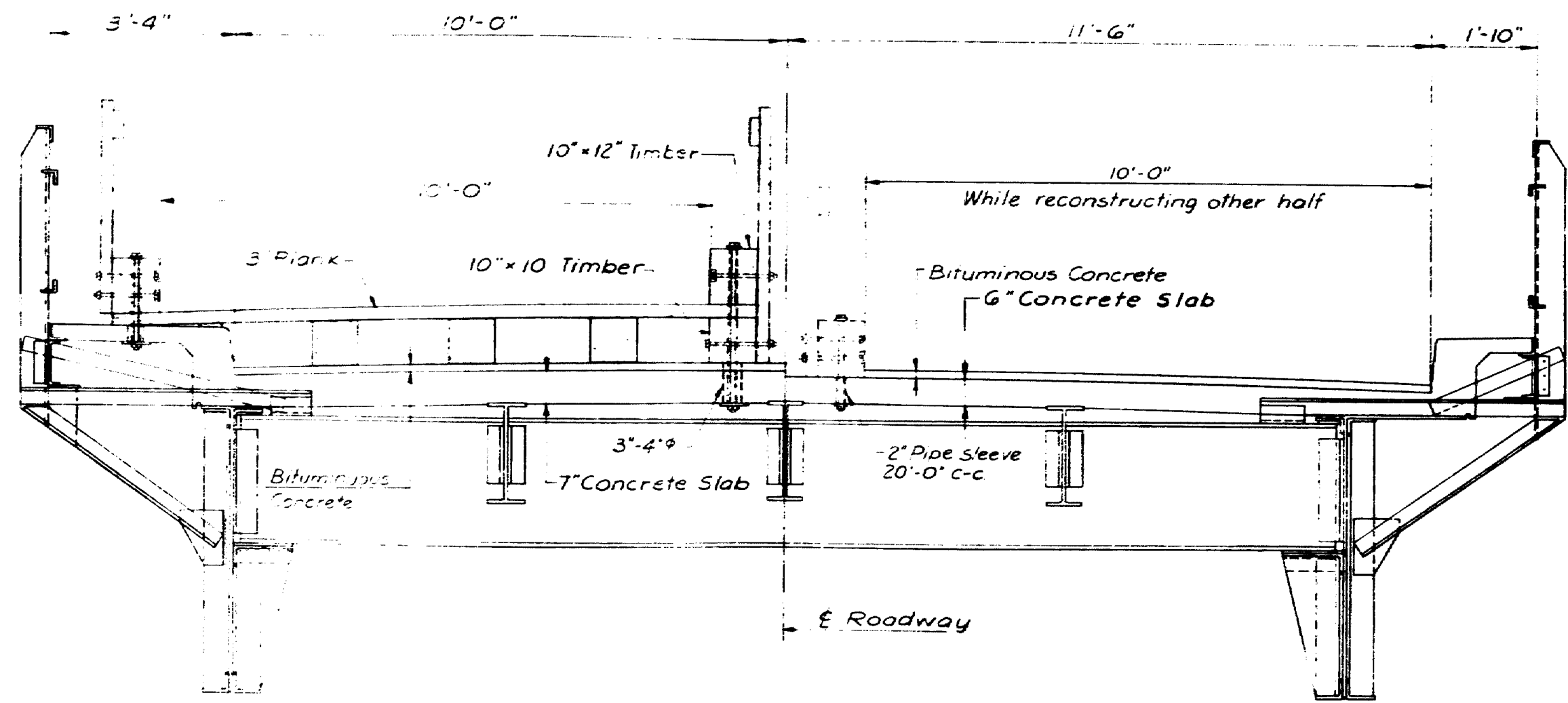
ELEVATION



ELEVATION

REPAIRS AT ANCHORS
Scale: 3"=1'-0"

DETAILS OF SHIELD AT ANCHORAGE
4 Required

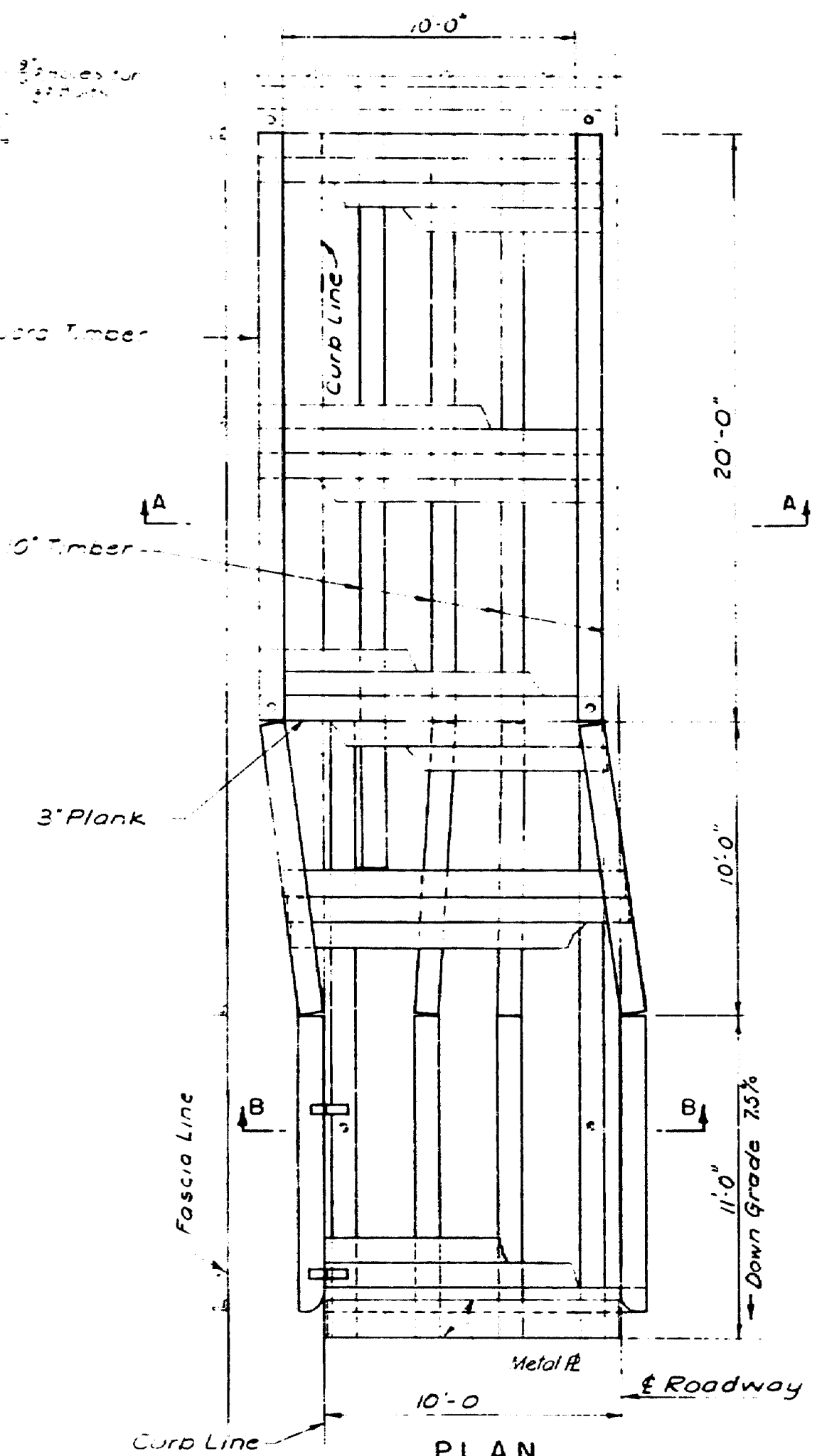


SECTION A-A

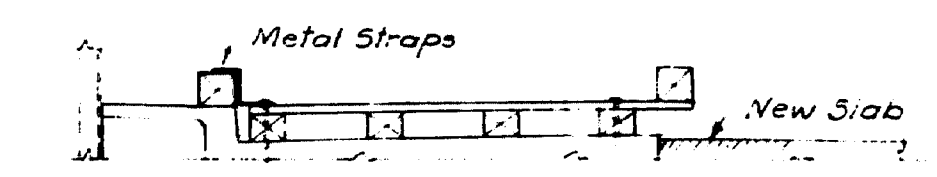
TEMPORARY TIMBER DECKING
EAST VIADUCT AND SUSPENDED SPANS
Scale: 1/2"=1'-0"

PROCEDURE

1. Construct temporary timber decking on North-lane.
2. Place temporary timber decking and connect to deck adjacent to section to be removed.
3. With traffic moving over temporary decking remove South lane of slab, curb and walk. Put in new slab, curb and walk using form with hooked bolts and studs at center line.
4. After slab has sufficient strength place temporary guard timber on new slab.
5. Move timber decking to new location.
6. For removal of North lane put new Concrete deck on South lane with temporary timber curb and rail for traffic.



PLAN



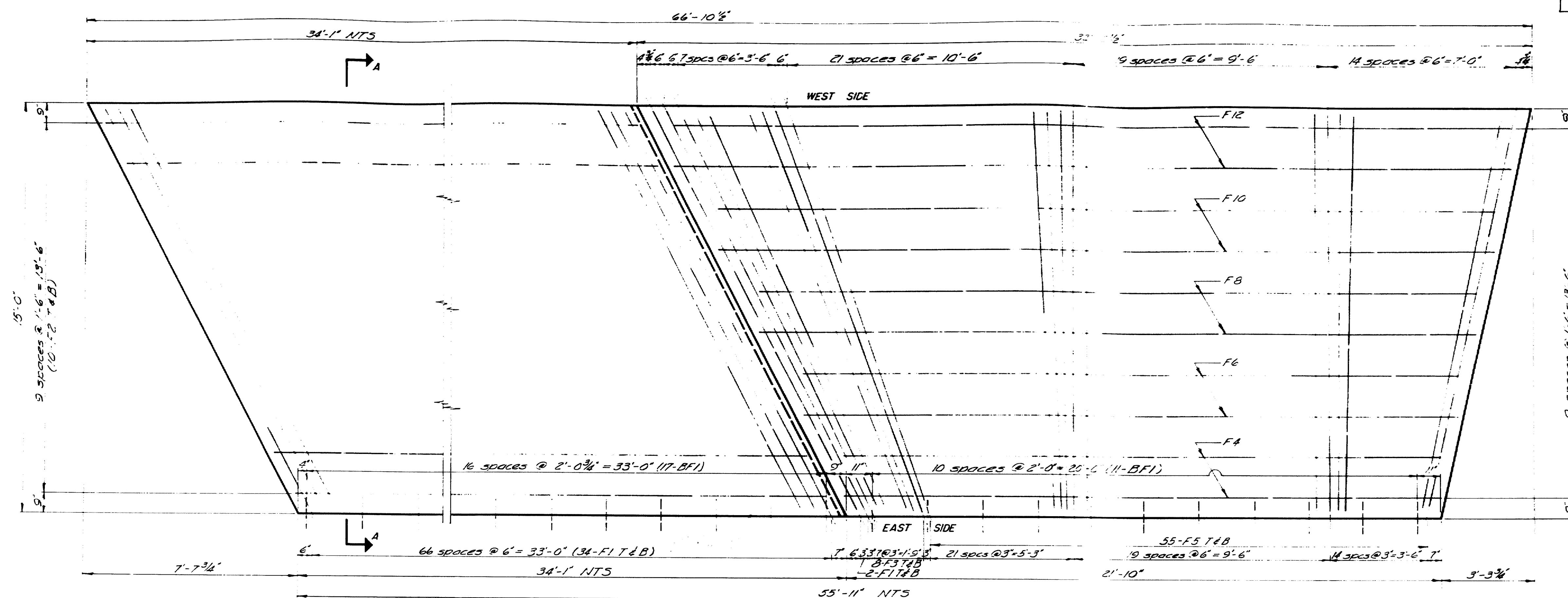
SECTION B-B
Scale: 1/2"=1'-0"

Design by: A.B.
Drawn by: A.E.N. & V.H.
Checked by: A.I.Z.
Engineer in Charge

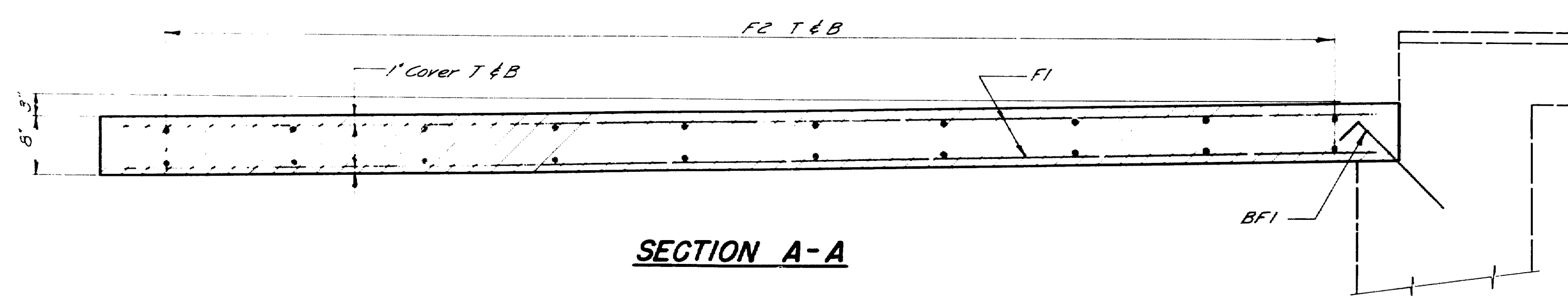
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CONSULTING ENGINEERS NEW YORK, N.Y.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION AUGUSTA, MAINE
WALDO-HANCOCK BRIDGE
OVER
PENOBSCOT RIVER
BETWEEN THE TOWNS OF
PROSPECT, WALDO COUNTY
AND
VERONA, HANCOCK COUNTY
MISCELLANEOUS DETAILS
SHEET 21 OF 21 SCALE As noted DATE Mar. 17, 1961

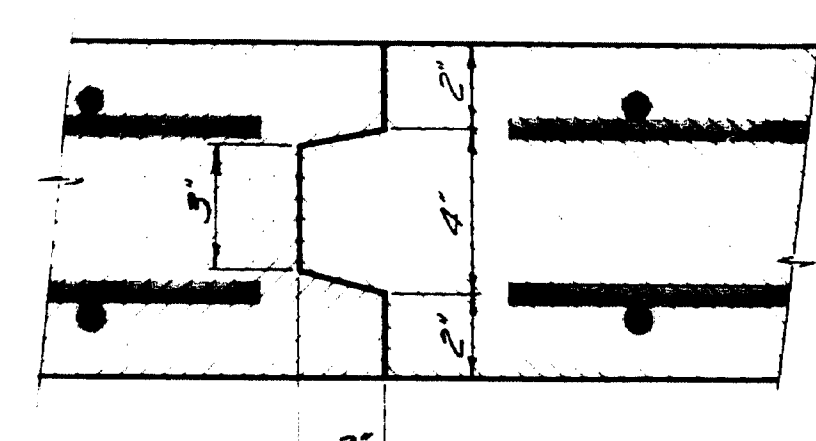
86-121



PLAN



SECTION A-A



**CONSTRUCTION
JOINT DETAIL**

VOLUMES
Concrete 227CK. Reinforcing 6987. #"

REINFORCING STEEL SCHEDULE

Mark	Size	Number	Length	Location
Straight Bars				
F1	#6	138	16'-4"	*
F2	#4	20	33'-7"	
F3	#6	16	15'-6"	
F4	#4	4	22'-0"	
F5	#6	110	14'-6"	
F6	#4	4	24'-0"	
F8	#4	4	26'-3"	
F10	#4	4	28'-6"	
F12	#4	4	30'-9"	
Bent Bars				
BF1	#4	28	1'-9"	

Dimensions to 1/4 of bars.
All reinforcing steel to be
intermediate grade.

NOTES

1. Slope approach slab away from abutment 3' in 15'.
2. Concrete Classification: Type A.

DESIGN - J.G.A.
TRACE - J.G.A.
CHECK - J.G.A.

BRIDGE NO. 104
SURVEY - 104
PLOT - 104

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
WALDO-HANCOCK BRIDGE
OVER
PENOBSCOT RIVER
BETWEEN THE TOWNS OF
PROSPECT, WALDO COUNTY
AND
VERONA, HANCOCK COUNTY
WEST APPROACH SLAB