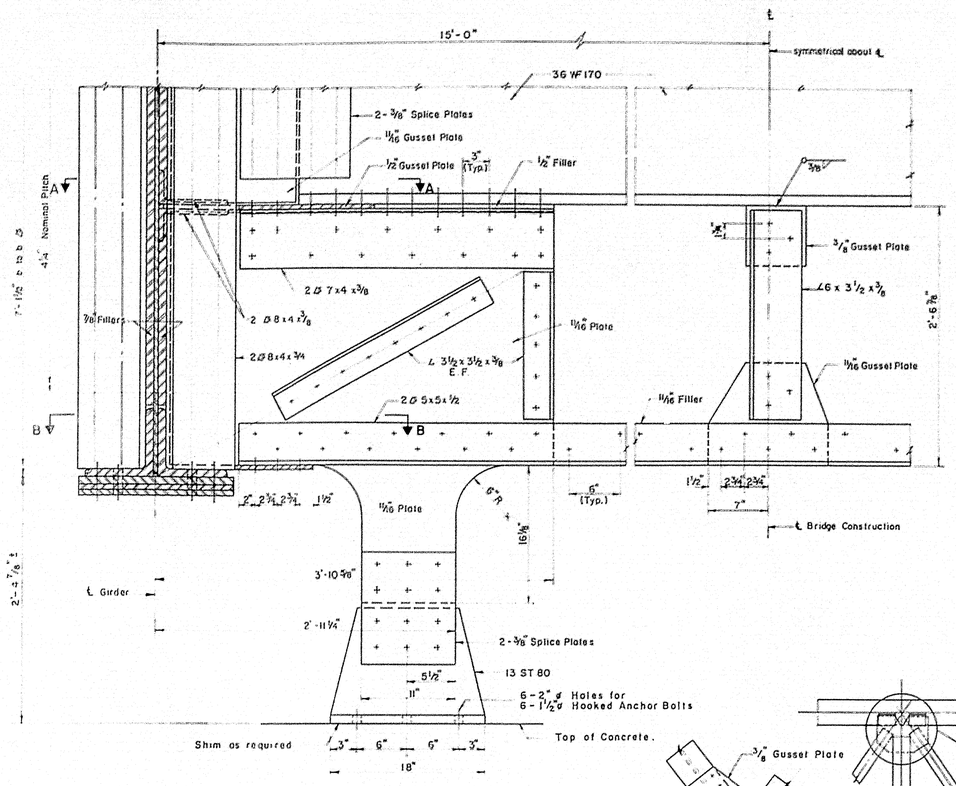
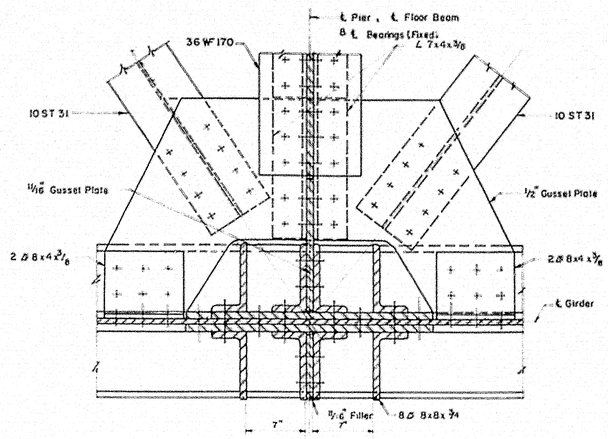
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)	27	32

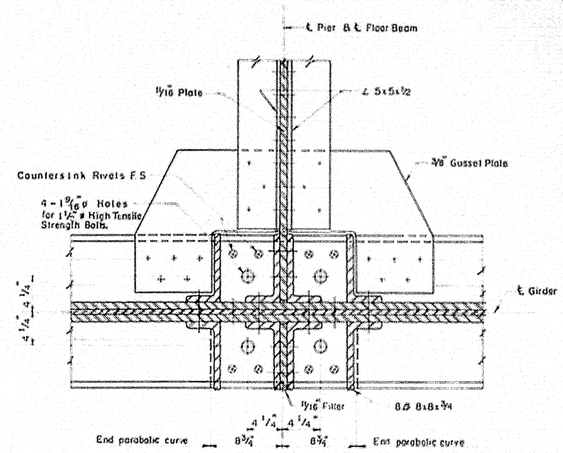
WATERVILLE INTERSTATE





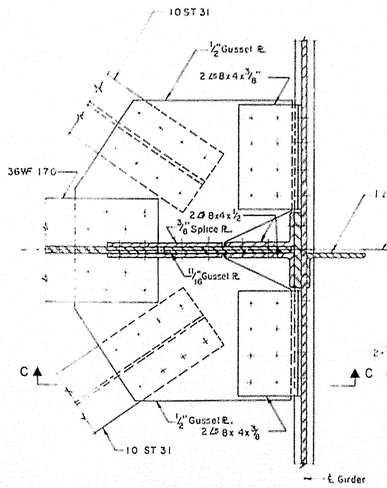
SECTION A-A

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



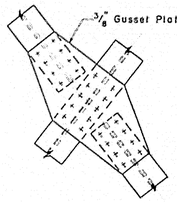
SECTION B-B

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



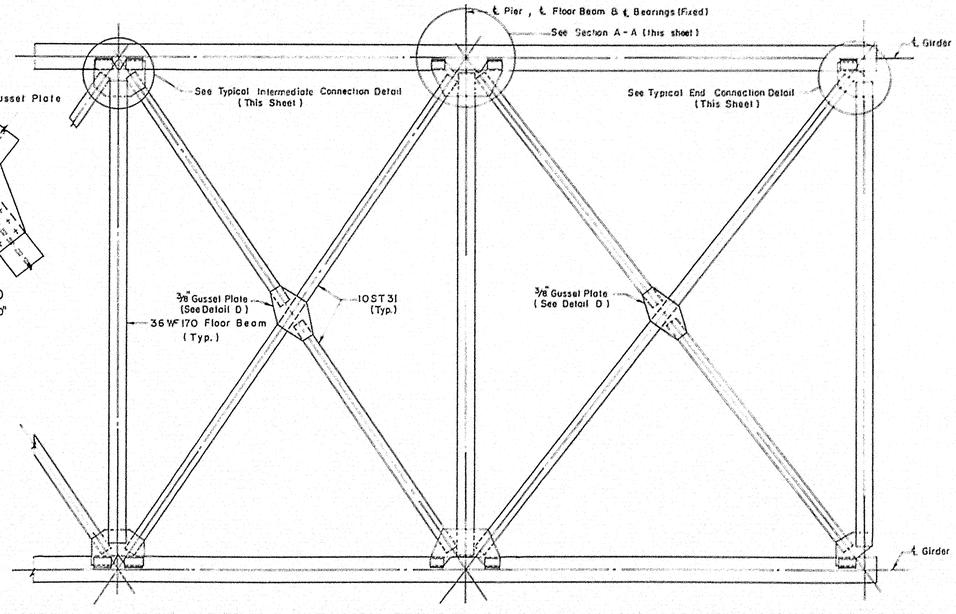
SECTION 2-2

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



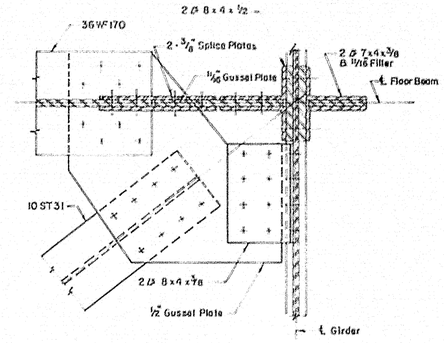
DETAIL D

Scale: 3/4" = 1'-0"



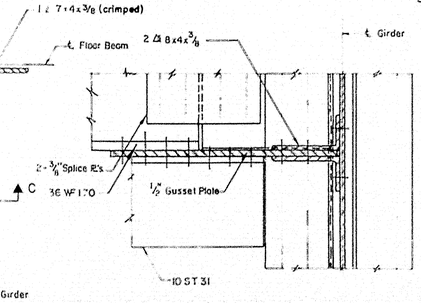
ARRANGEMENT BOTTOM LATERAL BRACING

Scale: 1/4" = 1'-0"



TYPICAL END CONNECTION DETAIL
BOTTOM LATERAL BRACING

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



SECTION C-C

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

TYPICAL INTERMEDIATE CONNECTION DETAIL
BOTTOM LATERAL BRACING

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

THE CLARKESON ENGINEERING CO. INC.

DESIGN R F	CHECK J F M	BRIDGE NO SURVEY PLOT
DRAWN E. K.	APPROVE WAH - CJM	

STATE HIGHWAY COMMISSION

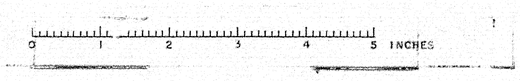
INTERSTATE #95
OVER
MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)

IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY

BRACING & CONNECTION DETAILS

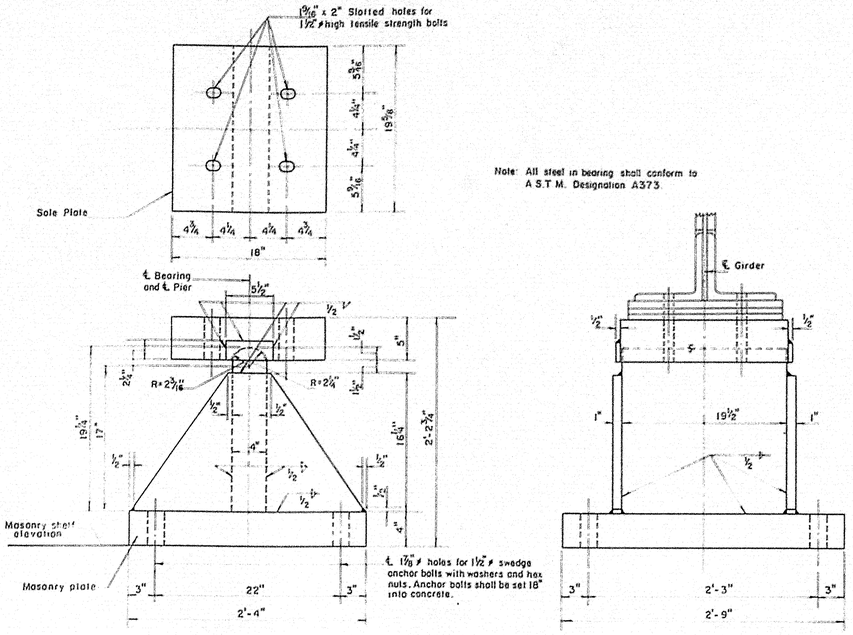
SHEET 20 OF 23 SHEETS — AUGUSTA, MAINE

78-192



B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
	MAINE	I-95-6 (23)	28	32

WATERVILLE INTERSTATE

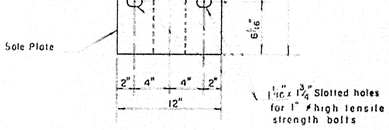


Note: All steel in bearing shall conform to A.S.T.M. Designation A373.

℄ 1⅞" ϕ holes for 1½" ϕ swedge anchor bolts with washers and hex nuts. Anchor bolts shall be set 18" into concrete.

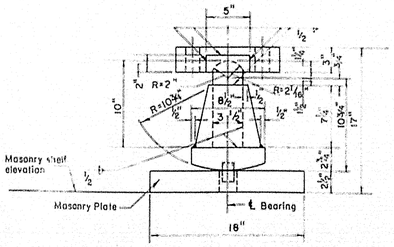
GIRDER FIXED BEARING

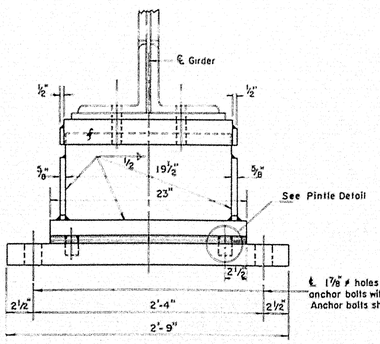
Scale: 1½" = 1'-0"



1¼" x 1¾" Slotted holes for 1" ϕ high tensile strength bolts

Note: All steel in rocker shall conform to A.S.T.M. Designation A373

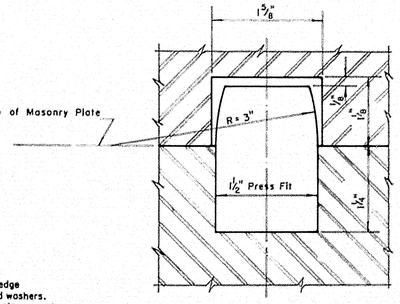




℄ 1⅞" ϕ holes for 1½" ϕ swedge anchor bolts with hex nuts and washers. Anchor bolts shall be set 18" into concrete.

GIRDER EXPANSION BEARING

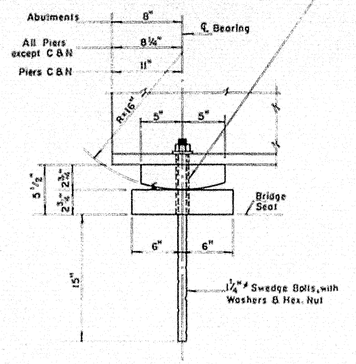
Scale: 1½" = 1'-0"

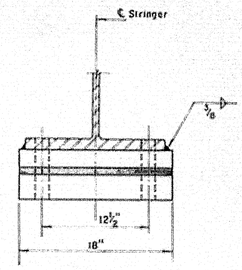


PINTLE DETAIL

Scale: Full Size

Fixed Bearings: Holes in Sole R., Masonry R., & Flange to be 1⅝" ϕ



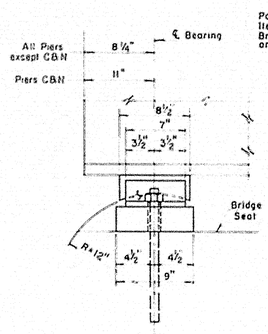


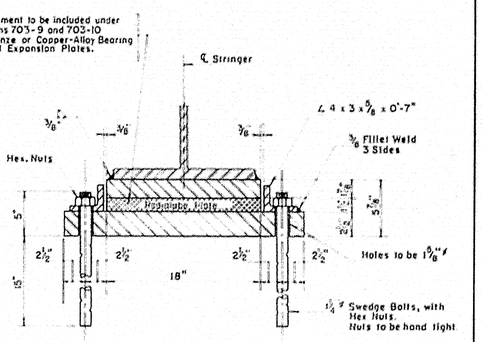
Note: All anchor bolts to be centered true before bearing plates are set in position.

STRINGER SPAN FIXED BEARING DETAIL

Scale: 1½" = 1'-0"

Payment to be included under Items 703-9 and 703-10 Bronze or Copper-Alloy Bearing and Expansion Plates.





STRINGER SPAN EXPANSION BEARING DETAIL

Scale 1½" = 1'-0"

THE CLARKESON ENGINEERING CO., INC.

DESIGN R.F.	CHECK J.I.M.	BRIDGE NO.
DRAWN D.E.S.	APPROVED W.A.S. J.M.	SURVEY
		PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95 OVER MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)

IN THE CITY OF

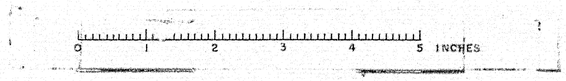
WATERVILLE

KENNEBEC COUNTY

BEARING DETAILS

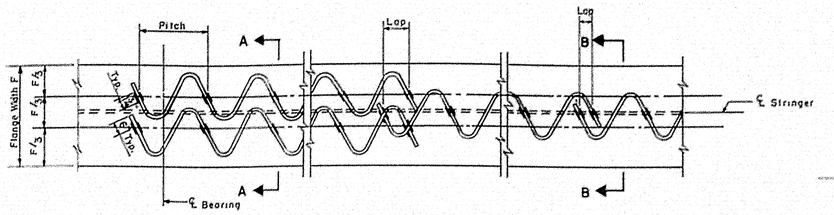
SHEET 21 OF 23 SHEETS AUGUSTA, MAINE

78-193

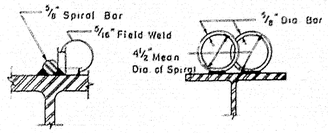


B.P.R. DIV. NO.	STATE	PROJECT NO	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)	29	32

WATERVILLE INTERSTATE

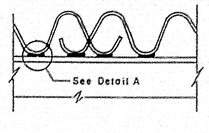


PLAN

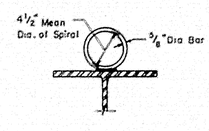


DETAIL A

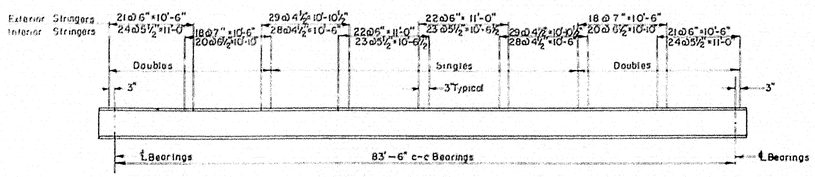
SECTION A-A



ELEVATION



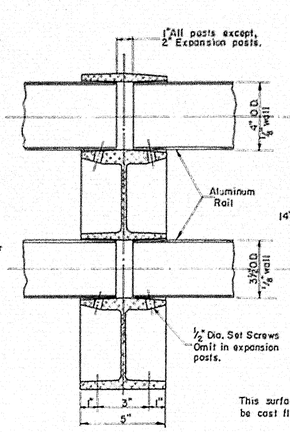
SECTION B-B



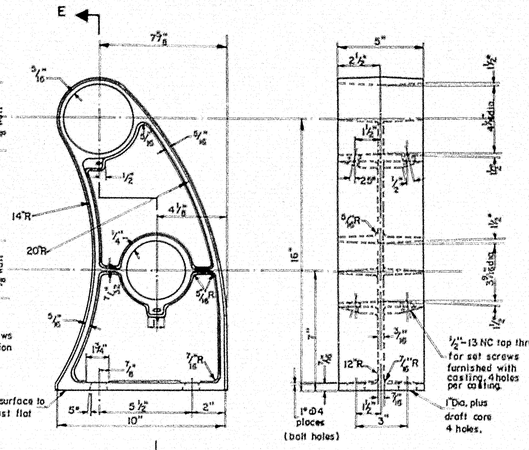
TYPICAL SPIRAL SHEAR CONNECTORS

(DETAILS & LAYOUT)

NOT TO SCALE

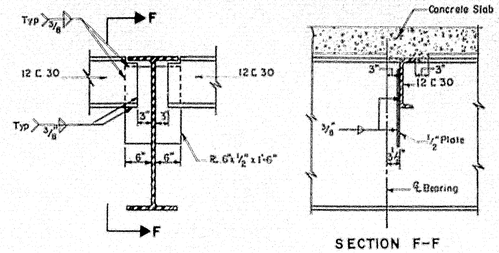


SECTION E-E



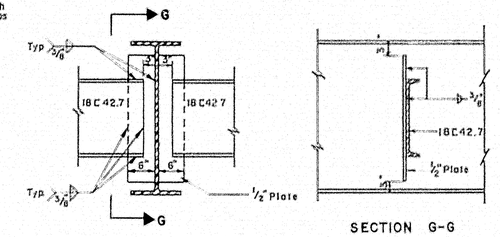
ALUMINUM RAIL DETAIL

Scale: 3"=1'-0"



SECTION F-F

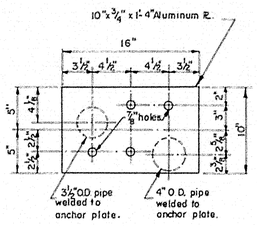
WELDED END DIAPHRAGM CONNECTION

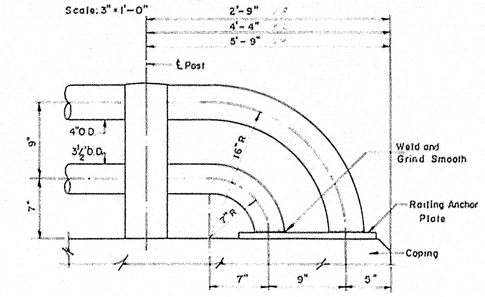


SECTION G-G

WELDED DIAPHRAGM CONNECTION

SCALE: ¾"=1'-0"





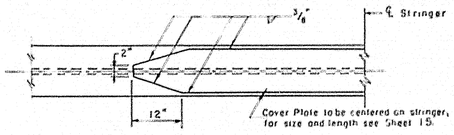
END RAILING DETAIL

Scale: ½"=1'-0"

Notes: 1. Any variation in railing dimensions shall be submitted for approval.

2 All anchor bolts, nuts and washers to be aluminum alloy.

3 All anchor bolts to be ¾"ø bolts set 11" into concrete.



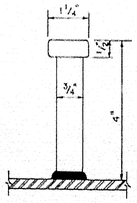
SECTION C-C

PLAN

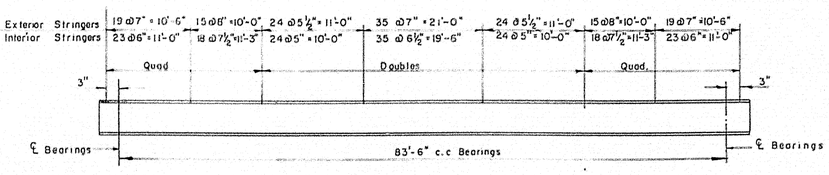
SECTION D-D

COVER PLATE DETAIL

NOT TO SCALE



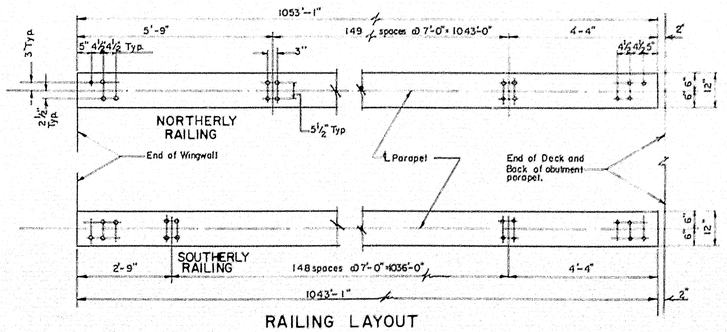
DETAIL B



TYPICAL STUD SHEAR CONNECTORS

(DETAILS & LAYOUT)

NOT TO SCALE



RAILING LAYOUT

Scale: ½"=1'-0"

THE CLARKESON ENGINEERING CO., INC.

DESIGN G.B.	CHECK J.T.S.H.P.	BRIDGE NO. SURVEY
DRAWN R.J.F.	APPROVED WAH-CJM	PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95

OVER

MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)

IN THE CITY OF

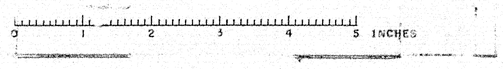
WATERVILLE

KENNEBEC COUNTY

SUPERSTRUCTURE DETAILS

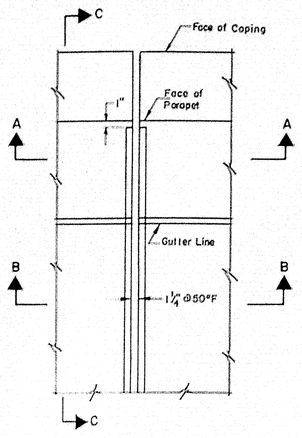
SHEET 22 OF 23 SHEETS AUGUSTA, MAINE

78-194

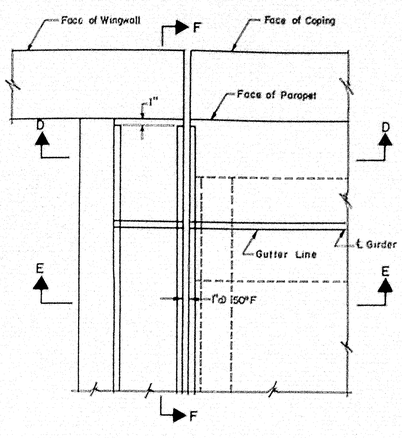


B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6 (23)	30	32

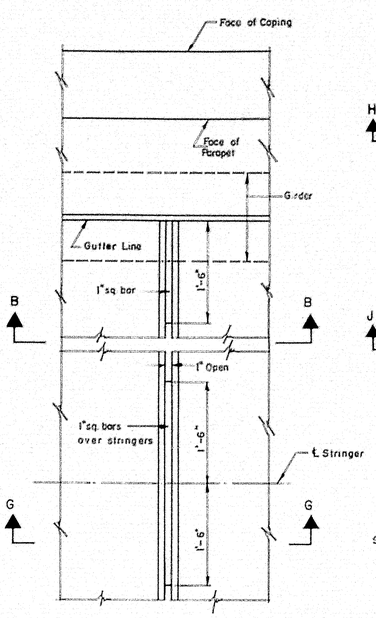
WATERVILLE INTERSTATE



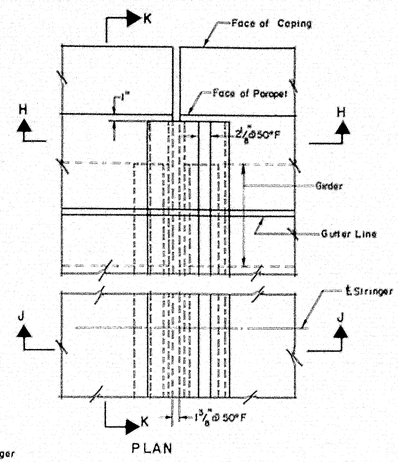
PLAN



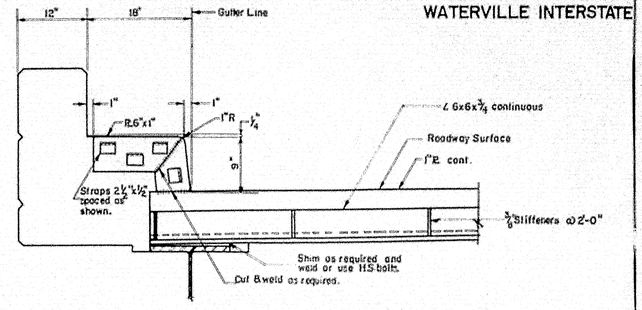
PLAN



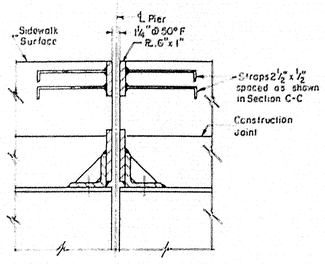
PLAN



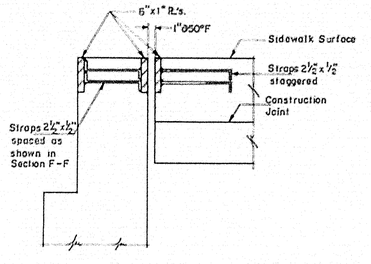
PLAN



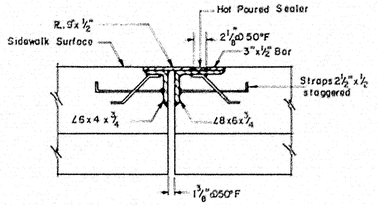
SECTION C-C
Scale 1"=1'-0"



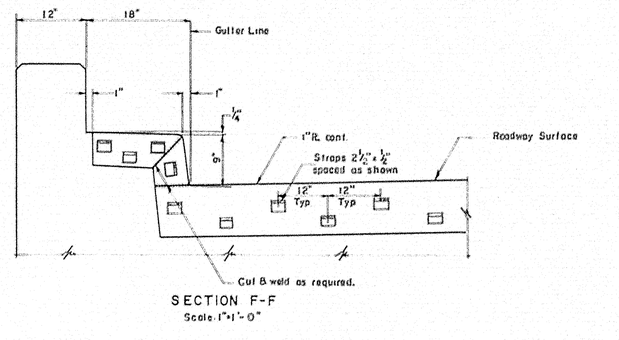
SECTION A-A



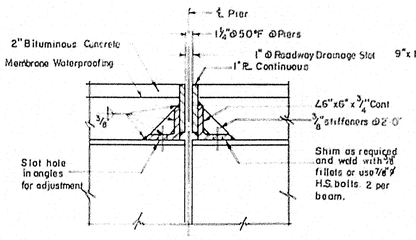
SECTION D-D



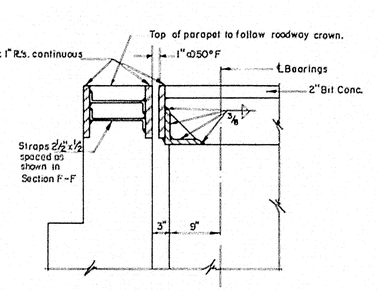
SECTION H-H



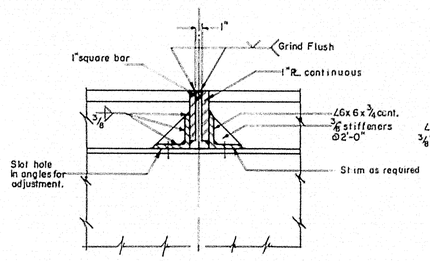
SECTION F-F
Scale 1"=1'-0"



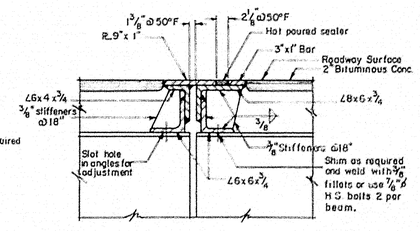
SECTION B-B



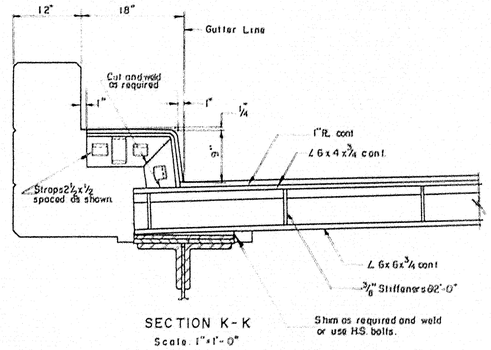
SECTION E-E



SECTION G-G



SECTION J-J



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

ROADWAY JOINT AT PIERS
Scale 1" = 1'-0"

ROADWAY JOINT AT WESTERLY ABUTMENT
Scale 1" = 1'-0"

ROADWAY DRAINAGE SLOT
Scale 1" = 1'-0"

Note: At drainage slots only 6x6x¾ angles are to be fastened to stringers and girders with ⅞" H.S. bolts.

ROADWAY JOINT AT HINGE
Scale 1" = 1'-0"

Notes: 1. 2" Bituminous Concrete Surfacing and Membrane Waterproofing are not in this contract.
2. All welds to be ⅜" fillets except as noted
3 Shop assemble Roadway Joint at Hinge. Fabricate to follow crown of roadway. Provide shipping device to maintain spacing and alignment. Do not paint sliding contact surfaces; rub with graphite. Same requirements for joint at safety walks.

THE CLARKESON ENGINEERING CO., INC.

DESIGN	CHECK H.P.	S.H.C. NO.
DRAWN D.A.T.	APPROVED WAH - C.J.M.	DATE

STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY
ROADWAY JOINTS

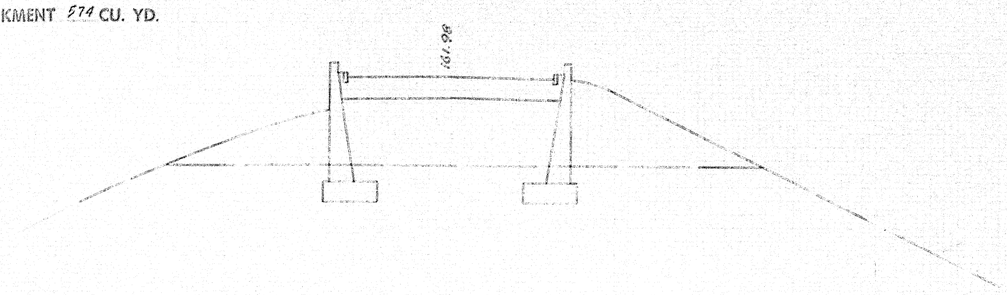
SHEET 23 OF 23 SHEETS — AUGUSTA, MAINE

78-195

0 1 2 3 4 5 INCHES

Southbound
℄

EMBANKMENT 574 CU. YD.

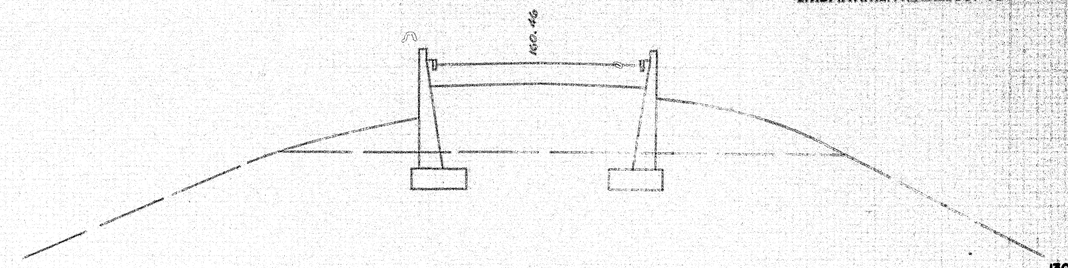


130

1048+50

Northbound
℄

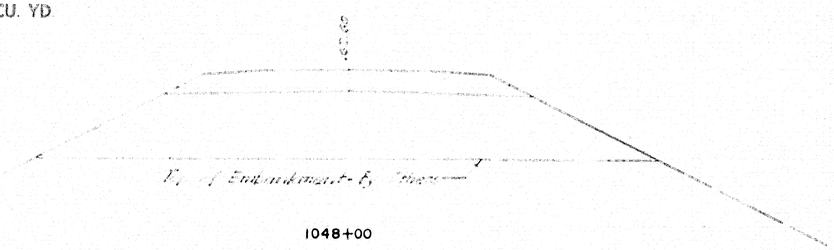
EMBANKMENT 200 CU. YD.



1047+50

130

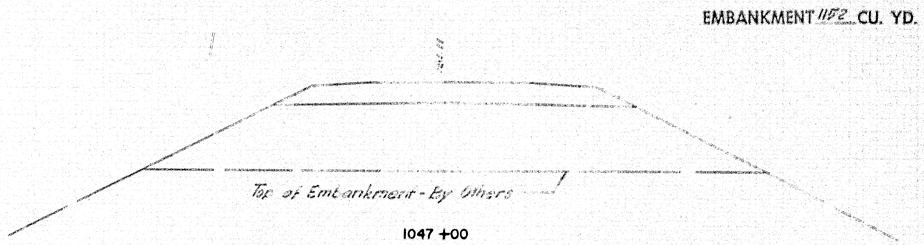
EMBANKMENT 1365 CU. YD.



140

1048+00

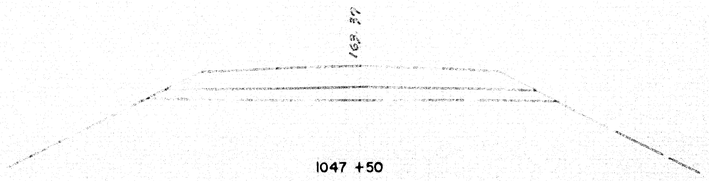
EMBANKMENT 1182 CU. YD.



1047+00

140

EMBANKMENT 739 CU. YD.



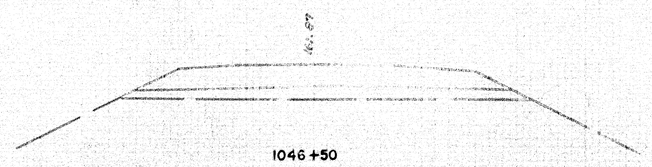
150

1047+50

EMBANKMENT 46 CU. YD.

STA. 1047+00 SOUTHBOUND
LIMIT OF WORK
℄

EMBANKMENT 741 CU. YD.



1046+50

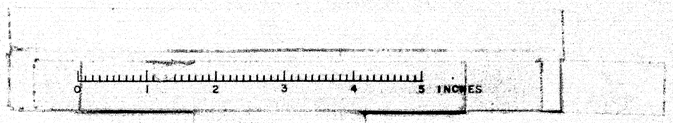
150

STA. 1047+56 NORTHBOUND
BEGIN F.A.P. I-95-6(23) PART 2

STA. 1046+00 NORTHBOUND
LIMIT OF WORK
℄

EMBANKMENT 44 CU. YD.

78-196



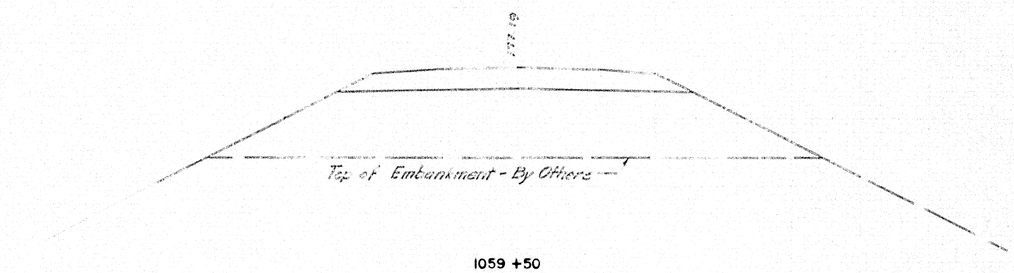
INTERSTATE 95 - WATERVILLE

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)	28	28

Southbound
℄

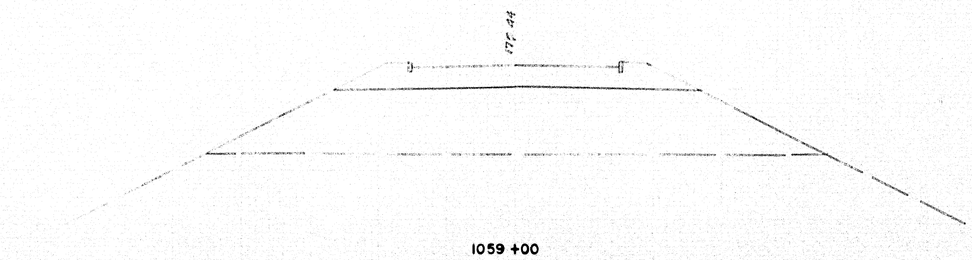
STA. 1061 +00 SOUTHBOUND
LIMIT OF WORK

EMBANKMENT 450 CU. YD.



1059 +50

EMBANKMENT 1287 CU. YD.



1059 +00

EMBANKMENT 255 CU. YD.

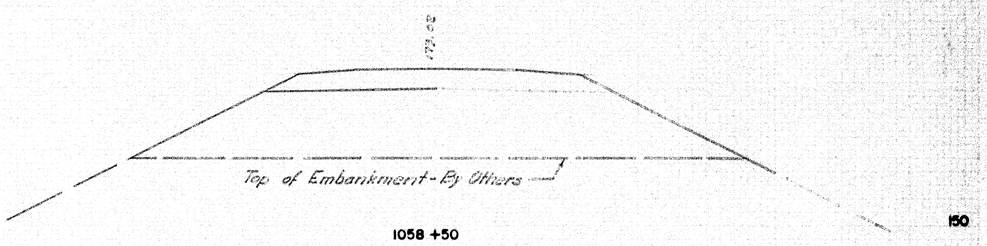
℄

Northbound
℄

STA. 1060 +00 NORTHBOUND
LIMIT OF WORK

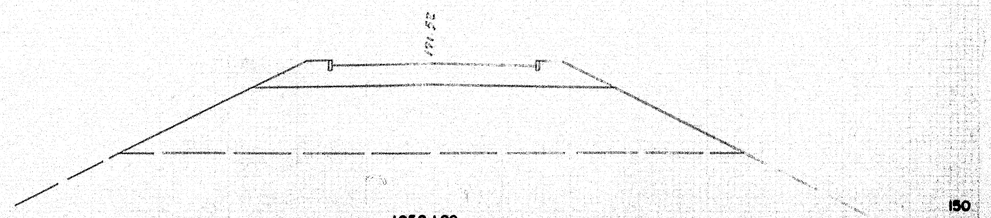
STA. 1057 +80 NORTHBOUND
END F.A.P. I-95-6(23) PART 2

EMBANKMENT 652 CU. YD.



1058 +50

EMBANKMENT 1310 CU. YD.

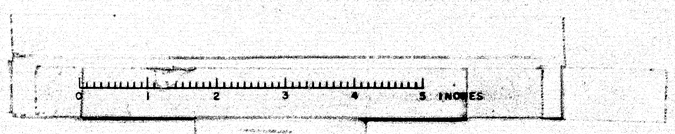


1058 +00

EMBANKMENT 526 CU. YD.

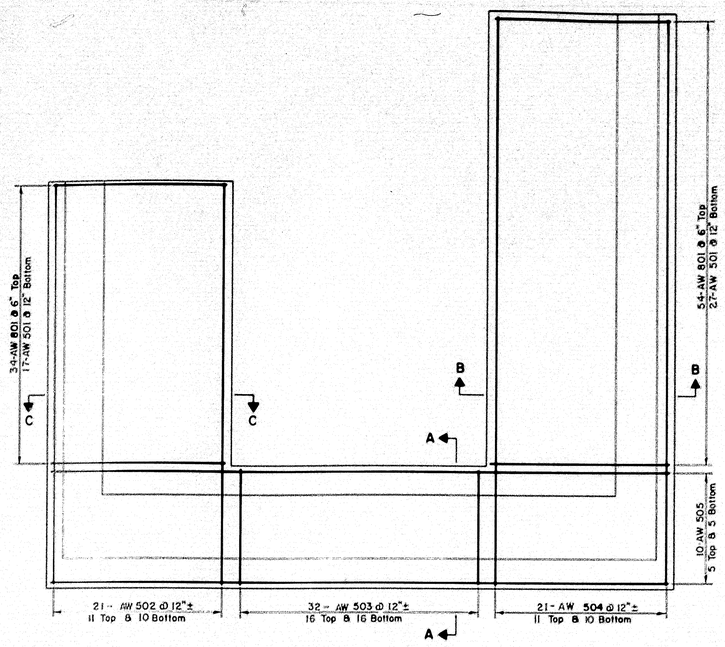
℄

70-197



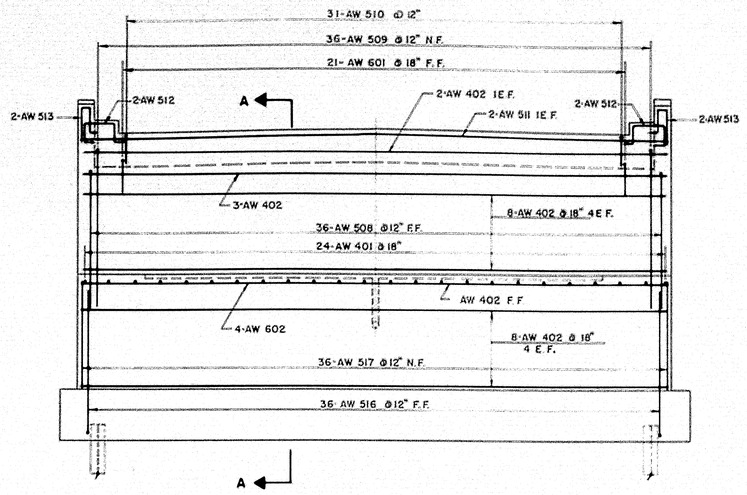
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

WATERVILLE INTERSTATE



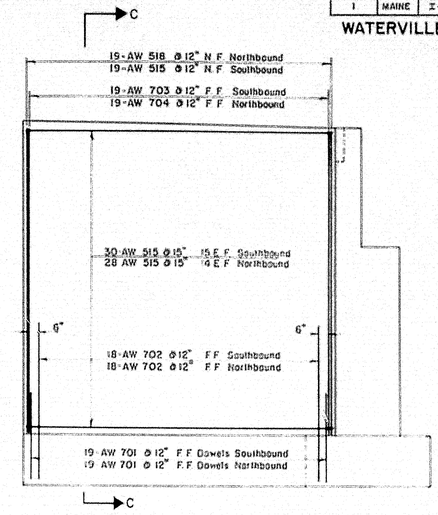
FOOTING REINFORCEMENT WESTERLY ABUTMENTS

Scale: 1/4" = 1'-0"



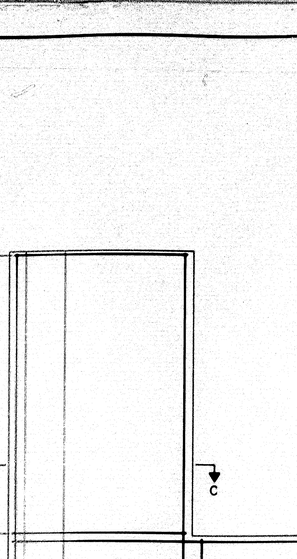
ELEVATION WESTERLY ABUTMENT (NORTHBOUND)

Scale: 1/4" = 1'-0"



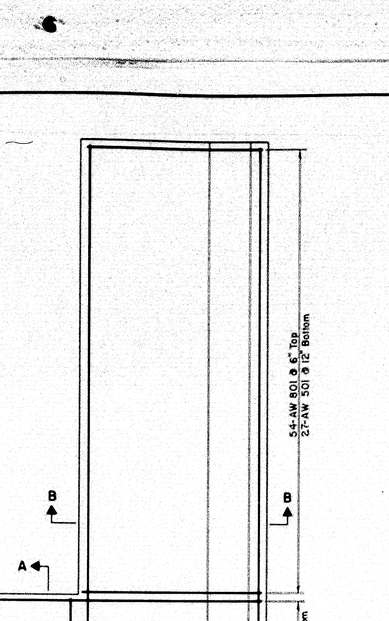
SOUTHERLY WALL REINFORCEMENT

Scale: 1/4" = 1'-0"



SECTION A-A

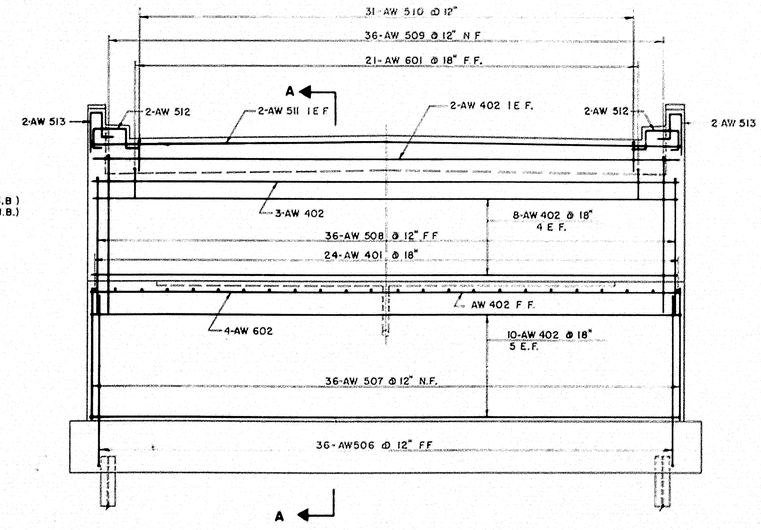
Scale: 3/8" = 1'-0"



SECTION B-B

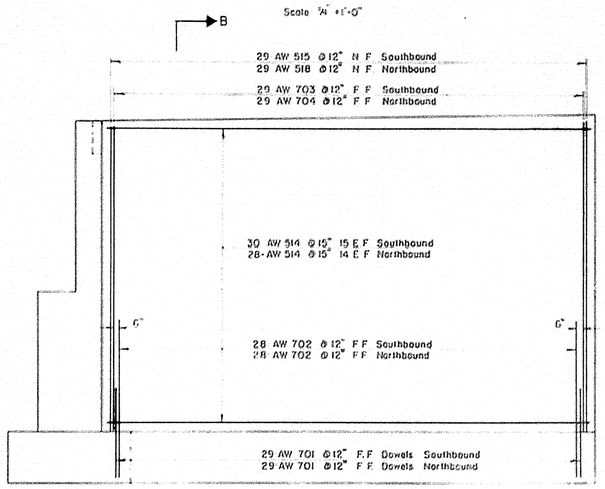
SECTION C-C SIMILAR EXCEPT AS NOTED

Scale 3/8" = 1'-0"



ELEVATION WESTERLY ABUTMENT (SOUTHBOUND)

Scale: 1/4" = 1'-0"



NORTHERLY WALL REINFORCEMENT

Scale: 1/4" = 1'-0"

THE CLARKESON ENG[illegible] CO., INC.

DESIGN H.L.	CHECK H[illegible]
DRAWN E.K.	APPROVED WAH & JM

STATE HIGHWAY [illegible]SION

INTERSTATE #95
OVER
MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY

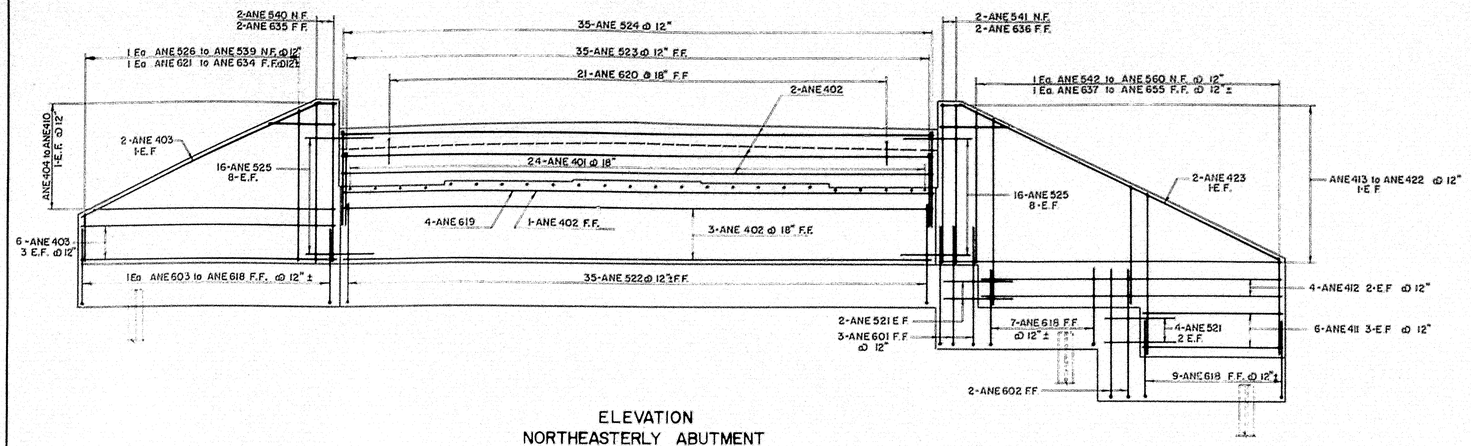
ABUTMENT REINFORCEMENT

SHEET 1 OF 13 SHEETS AUGUSTA, MAINE

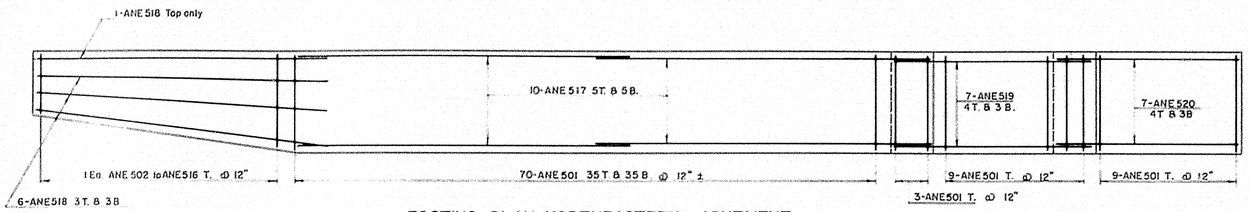
78-198

N.P.P. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6 (23)		

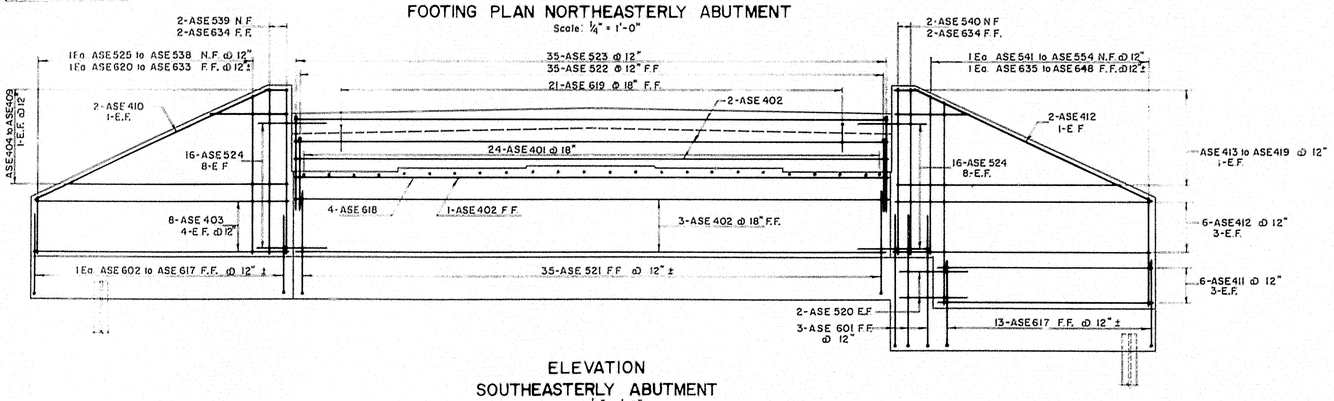
WATERVILLE INTERSTATE



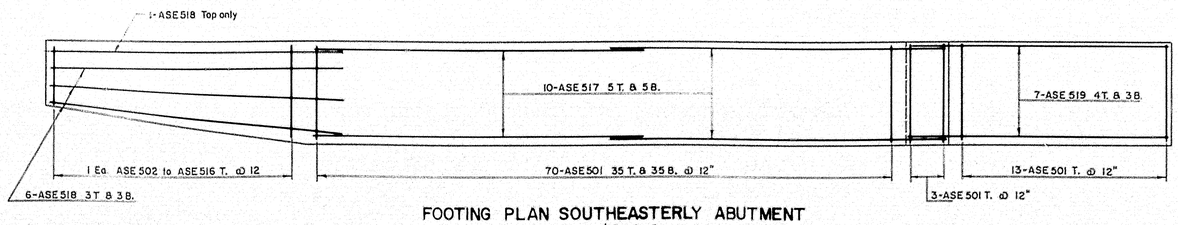
ELEVATION
NORTHEASTERLY ABUTMENT
Scale: ¼" = 1'-0"



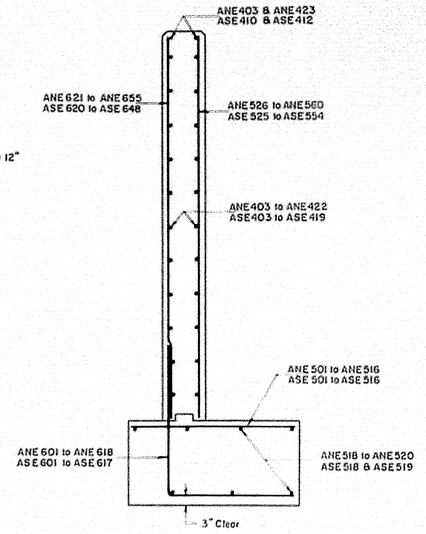
FOOTING PLAN NORTHEASTERLY ABUTMENT
Scale: ¼" = 1'-0"



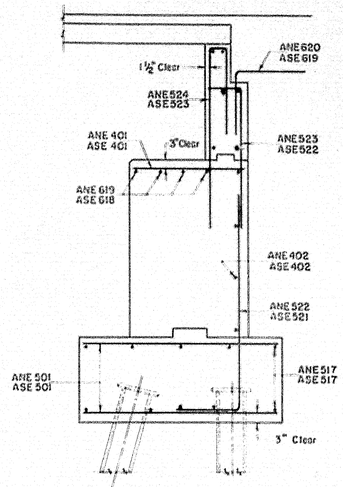
ELEVATION
SOUTHEASTERLY ABUTMENT
Scale: ¼" = 1'-0"



FOOTING PLAN SOUTHEASTERLY ABUTMENT
Scale: ¼" = 1'-0"



TYPICAL WINGWALL SECTION
Scale ½" = 1'-0"



TYPICAL ABUTMENT SECTION
Scale ½" = 1'-0"

Note: Reinforcing cover to be 2" unless otherwise noted.

THE CLARKESON ENGINEERING CO., INC.

DESIGN H.L. & H.P.	CHECK [illegible]	SURVEY NO.
DRAWN S.A.L.	APPROVED [illegible]	SURVEY

STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
MESSALONSKEE STREAM
& QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY
ABUTMENT REINFORCEMENT

SHEET 2 OF 13 SHEETS AUGUSTA, MAINE

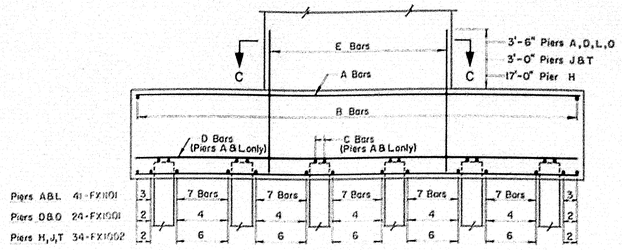
78-199

K+E FLORENCE MASS. 183 @ YOUNG PRINTS 44196

0 1 2 3 4 5 INCHES

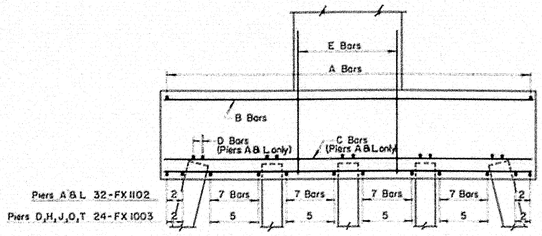
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

WATERVILLE INTERSTATE



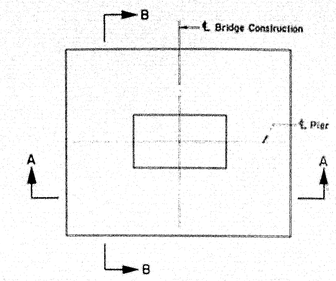
SECTION A-A PIERS A,D,H,J,L,O & T

Scale 1/4" = 1'-0"



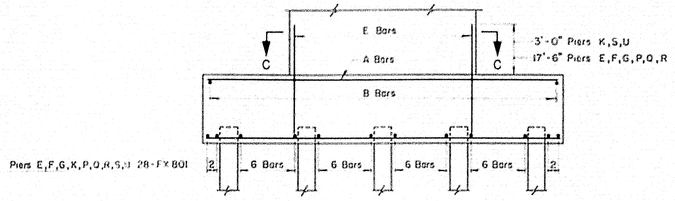
SECTION B-B PIERS A,D,H,J,L,O & T

Scale 1/4" = 1'-0"



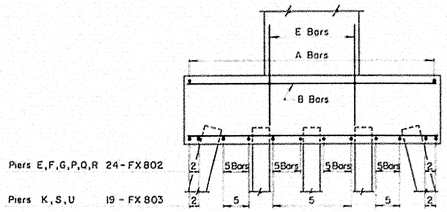
FOOTING PLAN

Scale 1/8" = 1'-0"



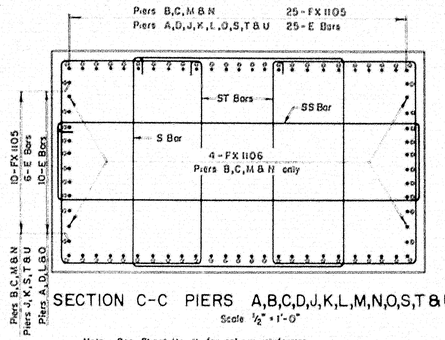
SECTION A-A PIERS E,F,G,K,P,Q,R,S & U

Scale 1/4" = 1'-0"



SECTION B-B PIERS E,F,G,K,P,Q,R,S & U

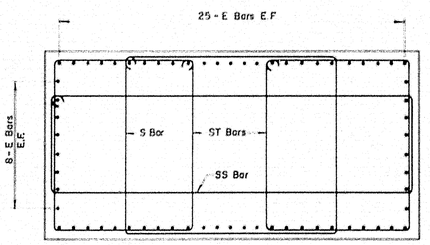
Scale 1/4" = 1'-0"



SECTION C-C PIERS A,B,C,D,J,K,L,M,N,O,S,T & U

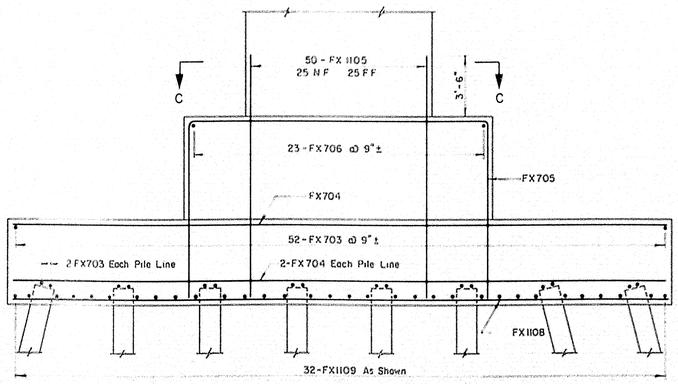
Scale 1/2" = 1'-0"

Note See Sheet No 11 for column reinforcing



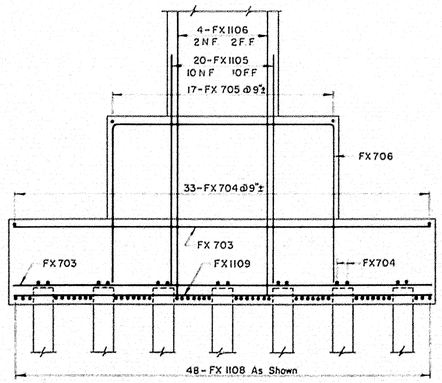
SECTION C-C PIERS E,F,G,H,P,Q & R

Scale 1/2" = 1'-0"



SECTION A-A PIERS B,C,M & N

Scale 1/4" = 1'-0"



SECTION B-B PIERS B,C,M & N

Scale 1/4" = 1'-0"

FOOTING BAR SCHEDULE

PIER	A Bars	B Bars	C Bars	D Bars	E Bars
A,L	17-FX804	21-FX805	6x2-FX707	5x2-FX708	70-FX1103
D,O	17-FX501	23-FX502	——	——	70-FX1104
H	19-FH701	23-FH702	——	——	66-FH1006
J,T	19-FX701	23-FX702	——	——	62-FX1005
E,F,G,P,Q,R	15-FX503	21-FX504	——	——	66-FX1006
K,S,U	15-FX505	19-FX504	——	——	62-FX1004

Notes

1. In bar number, letter "X" to be replaced by Pier letter. Ex. FA, FB etc.
2. Cover in footing and pedestals to be 3".
3. Cover for vertical bars in columns to be 3".
4. See Sheet No. 11 for bar lists.

THE CLARKESON ENG[illegible] INC.

DESIGN C.J.M. CHECK H.P.

DRAWN A.L. APPROVED WA[illegible]

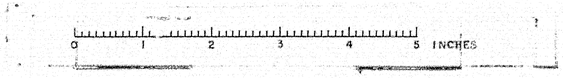
STATE HIGHWAY [illegible]

INTERSTATE #95
OVER
MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)

IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY
PIER FOOTINGS

SHEET 3 OF 13 SHEETS AUGUSTA, MAINE

78-200

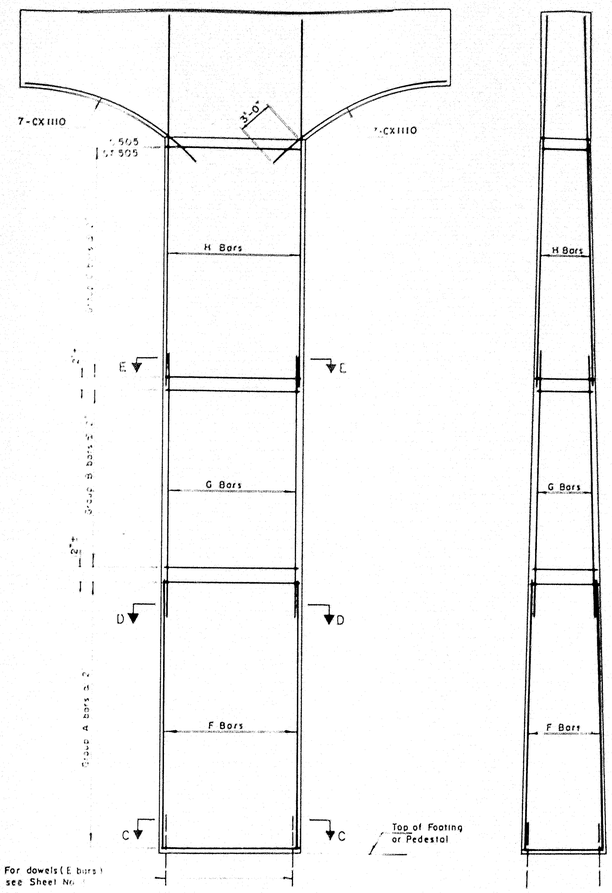


B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

WATERVILLE INTERSTATE

PIER COLUMN REINFORCEMENT

PIER	F Bars	G Bars	H Bars	Group A Bars	Group B Bars	Group C Bars
A	70-CA1107	66-CA1006	62-CA1007	1 Each S534 to S544 2Each ST534 to ST544 21-SS501	1 Each S514 to S528 2Each ST514 to ST528 15-SS500	1 Each S505 to S518 2 Each ST505 to ST518 14 - SS501
B	70-CB1107	66-CB1006	62-CB1008	1 Each S537 to S557 2 Each ST537 to ST557 21- SS501	1 Each S518 to S532 2 Each ST518 to ST532 15-SS500	1 Each S505 to S521 2 Each ST505 to ST521 17 - SS501
C	70-CC1107	66-CC1006	62-CC1013	1 Each S539 to S559 2 Each ST539 to ST559 21 - SS501	1 Each S519 to S533 2 Each ST519 to ST533 15- SS 500	1 Each S505 to S523 2 Each ST505 to ST523 19 - SS501
D	70-CD1107	66 CD1006	62-CD1007	1 Each S533 to S553 2 ST533 to ST553 21 - SS501	1Each S513 to S527 2 ST513 to ST527 15-SS500	1 Each S505 to S517 2 ST505 to ST517 13 - SS501
E	62 CE1010	——	——	1 Each S519 to S535 2 ST519 to ST535 17 - SS501	1 Each S500 to S513 2 ST500 to ST513 14 - SS500	——
F	62-CF1009	——	——	1 Each S516 to S532 2 ST516 to ST532 17 - SS501	1 Each S500 to S509 2 ST500 to ST509 10-SS500	——
G	62-CG1010	——	——	1 Each S519 to S535 2 ST519 to ST535 17 - SS501	1 Each S500 to S513 2 ST500 to ST513 14 - SS500	——
H	62-CH1012	——	——	1 Each S514 to S530 2 ST514 to ST530 17 - SS501	1 Each S500 to S507 2 ST500 to ST507 8 - SS500	——
J	62-CJ1013	——	——	1 Each S505 to S524 2 ST505 to ST524 20-SS501	——	——
K	62-CK1002	——	——	1 Each S505 to S512 2 ST505 to ST512 8 - SS501	——	——
L	70-CL1107	66-CL1006	62-CL1009	1 Each S532 to S552 2 ST532 to ST552 21-SS501	1 Each S513 to S527 2 ST513 to ST527 15 - SS500	1 Each S505 to S516 2 ST505 to ST516 12 - SS501
M	70-CM1107	66-CM1006	62-CM1011	1 Each S535 to S555 2 ST535 to ST555 21 - SS501	1 Each S516 to S530 2 ST516 to ST530 15- SS500	1 Each S505 to S519 2 ST505 to ST519 15 - SS501
N	70-CN1107	66-CN1006	62-CN1010	1 Each S537 to S557 2 ST537 to ST557 21 - SS501	1 Each S518 to S532 2 ST518 to ST532 15 - SS500	1 Each S505 to S521 2 ST505 to ST521 17 - SS501
O	70-CO1107	66-CO1006	62-CO1006	1 Each S530 to S550 2 ST530 to ST550 21 - SS501	1 Each S511 to S525 2 ST511 to ST525 15 - SS500	1 Each S505 to S514 2 ST505 to ST514 10 - SS501
P	62-CP1009	—	——	1 Each S516 to S532 2 ST516 to ST532 17 - SS501	1 Each S500 to S509 2 ST500 to ST509 10 - SS500	——
Q	62-CQ1009	—	——	1 Each S515 to S531 2 ST515 to ST531 17 - SS501	1 Each S500 to S508 2 ST500 to ST508 9 - SS500	——
R	62-CR1011	——	——	1 Each S518 to S534 2 ST518 to ST534 17 - SS501	1 Each S500 to S512 2 ST500 to ST512 13 - SS500	——
S	62-CS1008	—	——	1 Each S505 to S521 2 ST505 to ST521 17 - SS501	——	——
T	62-CT1008	—-	—	1 Each S505 to S521 2 ST505 to ST521 17 - SS501	——	——
U	62-CU1014	—	——	1 Each S505 to S508 2 ST505 to ST508 4 - SS501	——	——

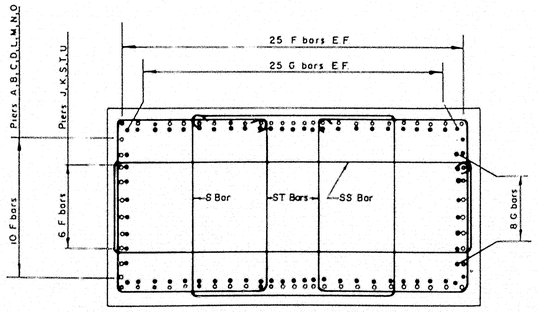


PIERS A, B, C, D, J, K, L, M, N, O, S, T, U

Scale $\frac{3}{16}$" = 1'-0"

Notes: For Section C-C, see Sheet No. 3

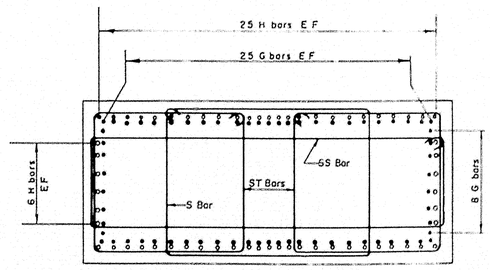
... for main reinforcing to be 3"



Note: 1-S bar, 1-SS bar, and 2-ST bars to be placed in one layer. Layers to be at 12" ± o.c.

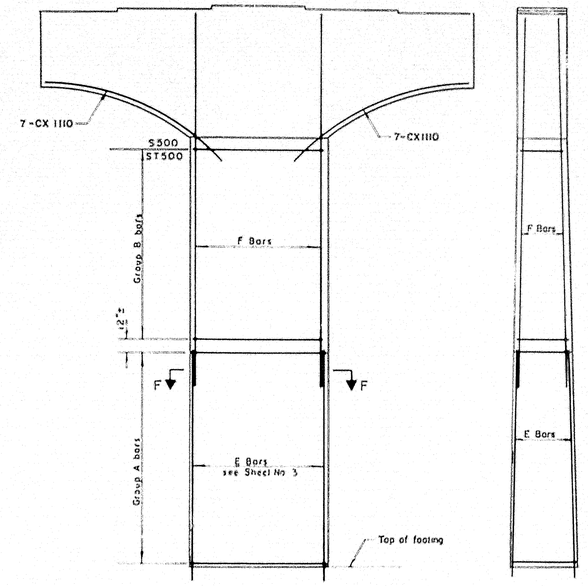
SECTION D-D

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



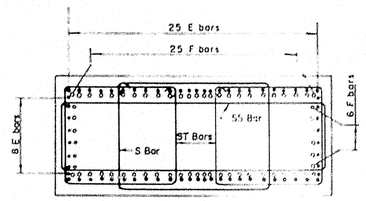
SECTION E-E

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



PIERS E, F, G, H, P, Q, R

Scale $\frac{3}{16}$" = 1'-0"



SECTION F-F

Scale $\frac{3}{8}$" = 1'-0"

THE CLARKESON ENGINEERING CO., INC.

DESIGN C J M	CHECK	DRAWING NO.
DRAWN D E S	APPROVED W.	SURVEY

STATE HIGHWAY COMMISSION

INTERSTATE #95

MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)

IN THE CITY OF

WATERVILLE

KENNEBEC COUNTY

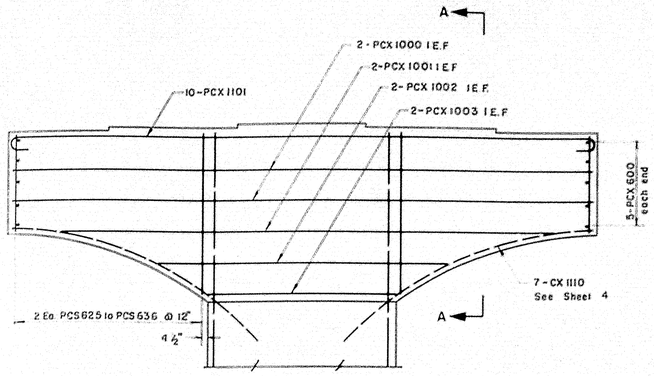
PIER CAP REINFORCEMENT

SHEET 4 OF 13 SHEETS AUGUSTA, MAINE

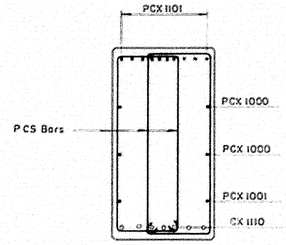
78-201

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

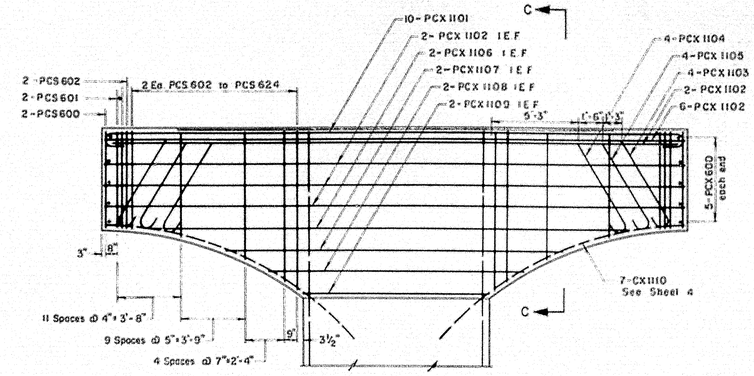
WATERVILLE INTERSTATE



CAP REINFORCEMENT
PIERS D,E,F,G,H,J,K,O,P,Q,R,S,T & U
Scale ¼" = 1'-0"



SECTION A-A
Scale ⅜" = 1'-0"



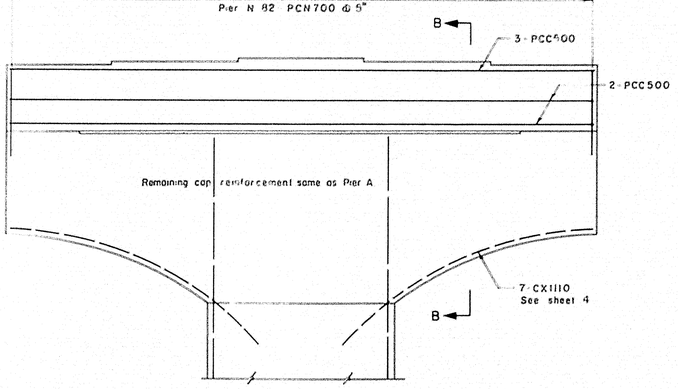
CAP REINFORCEMENT
PIERS A,B,L & M
Scale ¼" = 1'-0"

Notes

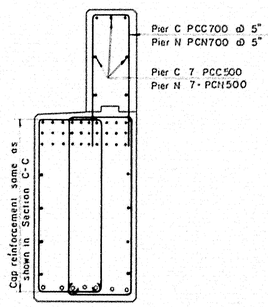
1 For main reinforcement, "X" in bar number to be replaced by pier letter Ex PCA, PCB, etc

2 For column bars, see Sheet No 4

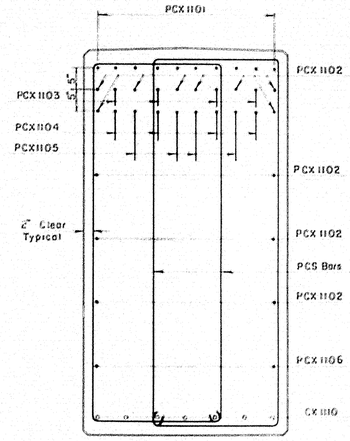
3 Reinforcing steel symmetrical about ℄ Pier



CAP REINFORCEMENT
PIERS C & N
Scale ¼" = 1'-0"



SECTION B-B
Scale ⅜" = 1'-0"



SECTION C-C
Scale ¾" = 1'-0"

THE CLARKESON ENGIN... INC.

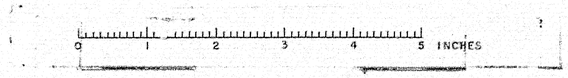
DESIGN C J M	CHECK H P
DRAWN A L	APPROVED WAH C JM

STATE HIGHWAY C...

INTERSTATE #95
OVER
MESSALONSKEE STREAM
& QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY
PIER CAP REINFORCEMENT

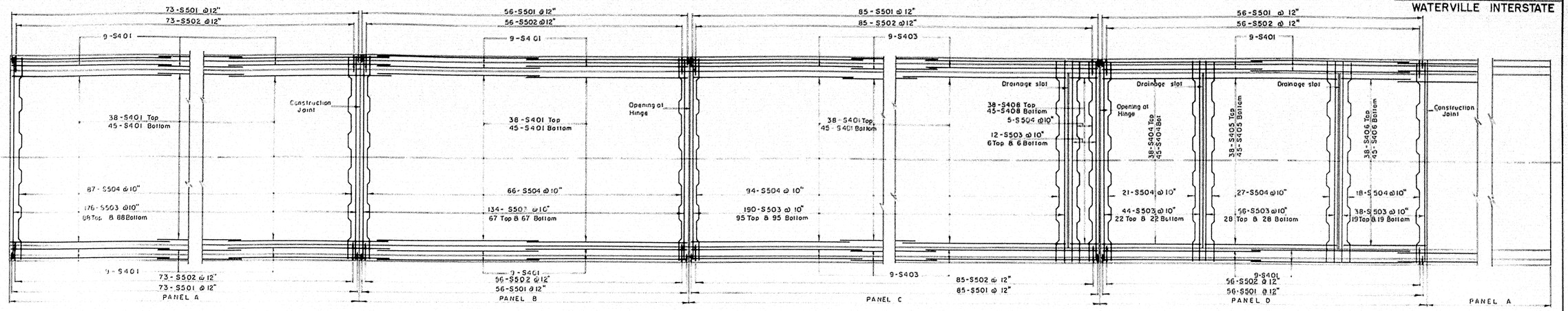
SHEET 5 OF 13 SHEETS AUGUSTA, MAINE

78-202



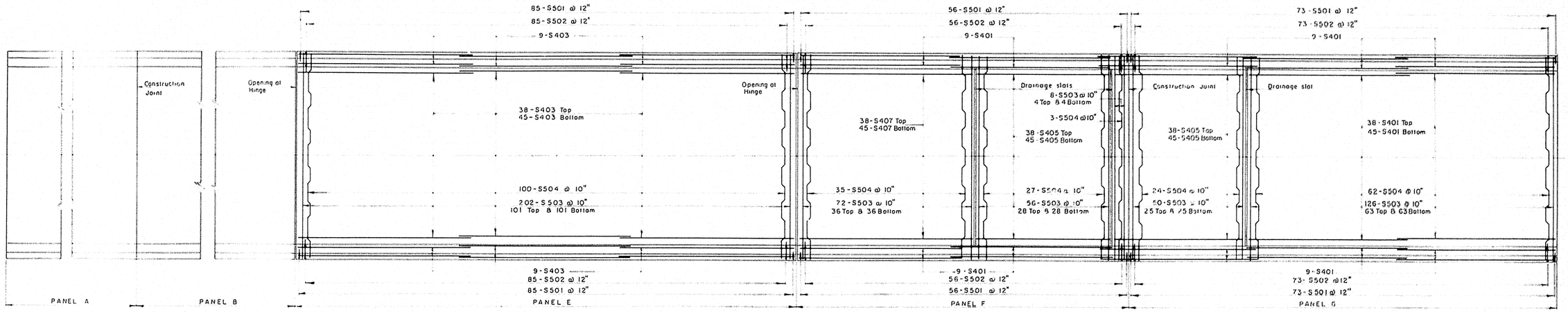
B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

WATERVILLE INTERSTATE



GIRDER SPANS 1, 2, & 3

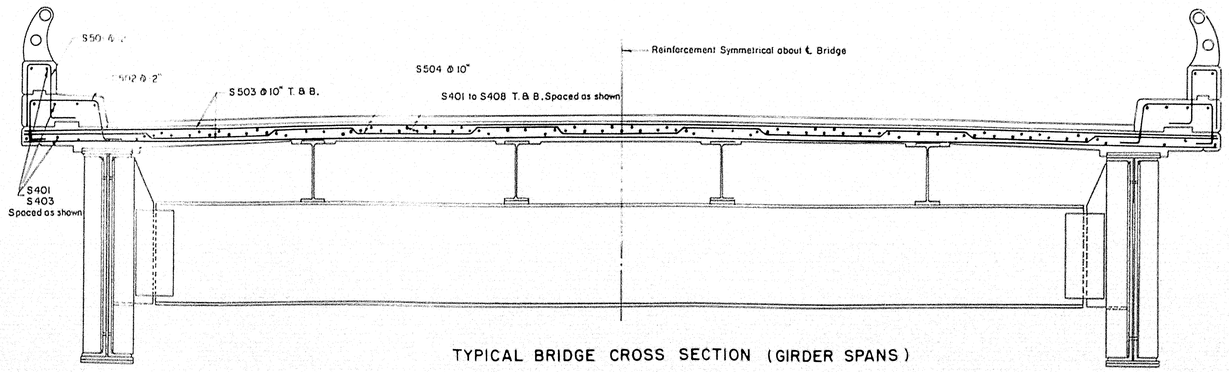
Scale 1/8" = 1'-0"



GIRDER SPANS 12, 13, & 14

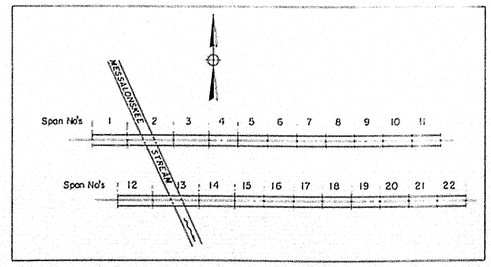
Scale 1/8" = 1'-0"

Notes 1 Longitudinal bars lapped 2'-0"±
2 Field cut bars to clear scuppers



TYPICAL BRIDGE CROSS SECTION (GIRDER SPANS)

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



KEY PLAN

No Scale

THE CLARKESON ENGINEERING CO., INC.

DESIGN H L	CHECK H P	BRIDGE NO. SURVEY
DRAWN D A T	APPROVED W. A. C.	LINE PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
MESSALONSKEE STREAM
& QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY
DECK SLAB REINFORCEMENT

SHEET 6 OF 13 SHEETS AUGUSTA, MAINE

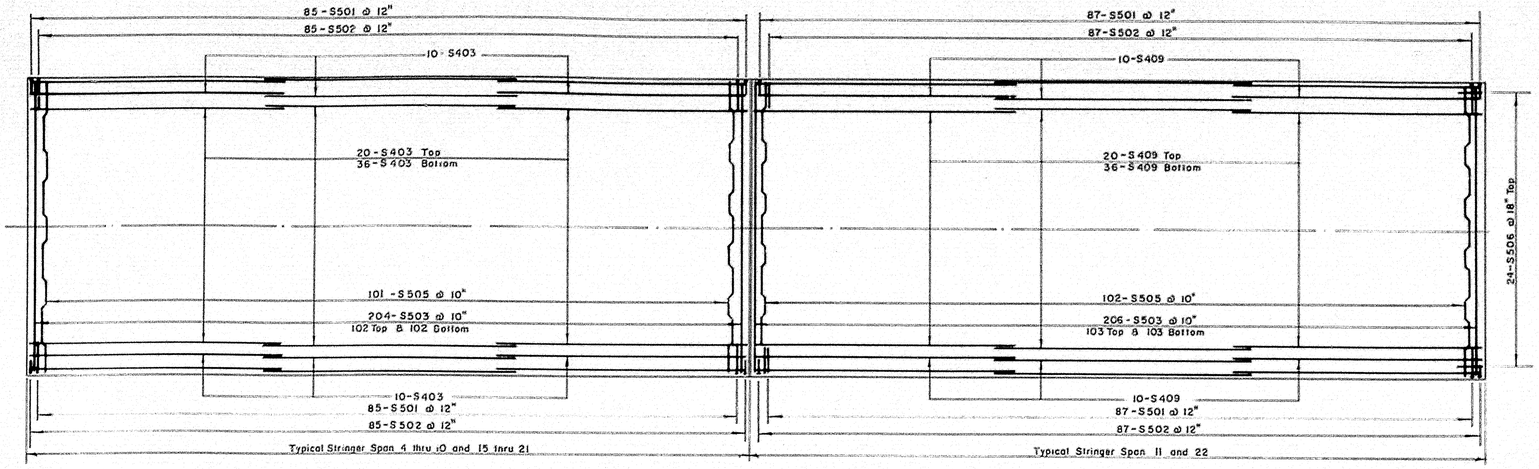
78-203

K-E PHOENIX BLVD. 188 © 1966 KEUFFEL & ESSER 44740

0 1 2 3 4 5 INCHES

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

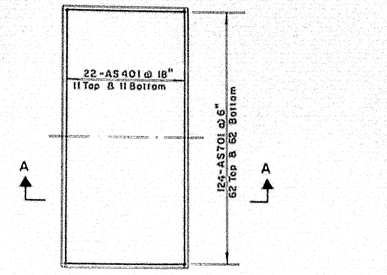
WATERVILLE INTERSTATE



STRINGER SPANS

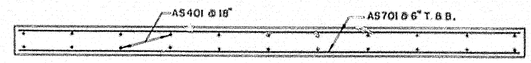
Scale $\frac{1}{8}$" = 1'-0"

Notes: 1. Longitudinal bars lapped 2'-0"±
2 Field cut bars to clear scuppers.



PLAN

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

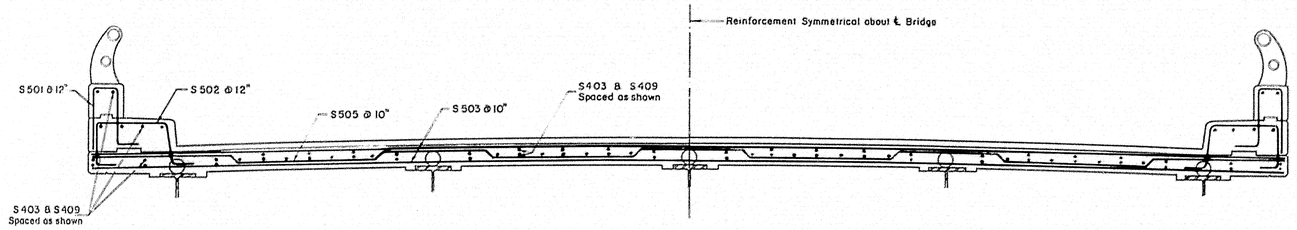


SECTION A-A

TYPICAL APPROACH SLAB REINFORCEMENT

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

Note. 4 approach slabs required.



TYPICAL BRIDGE CROSS SECTION (STRINGER SPANS)

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

PLAN

TYPICAL SCUPPER REINFORCEMENT

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

THE CLARKESON ENGI[illegible] INC.

DESIGN H L	CHECK H.P
DRAWN D.E.S.	APPROVED W.A.H.-C.J.M.

STATE HIGHWAY [illegible]

INTERSTATE #95
OVER
MESSALONSKEE STREAM
& QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY

DECK & APPROACH SLAB REINFORCEMENT

SHEET 7 OF 13 SHEETS AUGUSTA, MAINE

78-204

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
1				WESTERLY ABUTMENT (SOUTHBOUND)													
2			FOOTING														
3																	
4	44	5	10'-8"	AW501	Str												
5	21	1	23'-8"	AW502	1												
6	32		6'-11"	AW503													
7	21		33'-8"	AW504	1												
8	10	1	36'-8"	AW505	Str												
9	36	5	12'-0"	AW506	20		2'-0"	10'-0"									
10																	
11	48	7	5'-3"	AW701	Str												
12	46	7	9'-3"	AW702	Str												
13																	
14	88	8	10'-8"	AW801	Str												
15																	
16																	
17																	
18			ABUTMENT STEM														
19																	
20	24	4	3'-5"	AW401	Str												
21	24	4	34'-8"	AW402	Str												
22																	
23	36	5	8'-0"	AW507	Str												
24	36	1	9'-5"	AW508	20		1'-2"	8'-3"									
25	36	1	12'-8"	AW509	17		9'-6"	0'-8"	2'-6"								
26	31		4'-6"	AW510	17		2'-0"	0'-6"	2'-0"								
27	2		34'-8"	AW511	Str												
28	4	1	5'-11"	AW512	S5	0'-9"	1'-2"	2'-1"	1'-2"			0'-9"					
29	4	5	6'-2"	AW513	S5		2'-9"	0'-8"	2'-0"			0'-9"					
30																	
31	21	6	4'-0"	AW601	17		2'-0"	2'-0"									
32	4	6	34'-8"	AW602	Str												
33																	
34																	
35																	
36			WINGWALLS														
37																	
38	30	5	28'-2"	AW514	Str												
39	78	5	18'-2"	AW515	Str												
40																	
41	48	7	8'-2"	AW703	Str												
42																	
43																	
44																	
45				WESTERLY ABUTMENT (NORTHBOUND)													
46																	
47			FOOTING														
48																	
49	44	5	10'-8"	AW501	Str												
50	21	1	23'-8"	AW502	1												
51	32		6'-11"	AW503													
52	21		33'-8"	AW504	1												
53	10	1	36'-8"	AW505	Str												
54	36	5	10'-7"	AW516	20		2'-0"	8'-7"									
55																	
56	48	7	5'-3"	AW703	Str												
57	46	7	9'-3"	AW702	Str												
58																	
59	88	8	10'-8"	AW801	Str												
60																	
61																	
62																	
63			ABUTMENT STEM														
64																	
65	24	4	3'-5"	AW401	Str												
66	22	4	34'-8"	AW402	Str												
67																	
68	36	5	9'-5"	AW508	20		1'-2"	8'-3"									
69	36	1	12'-8"	AW509	17		9'-6"	0'-8"	2'-6"								
70	31		4'-6"	AW510	17		2'-0"	0'-6"	2'-0"								
71	2		34'-8"	AW511	Str												
72	4		5'-11"	AW512	S5	0'-9"	1'-2"	2'-1"	1'-2"			0'-9"					
73	4	1	6'-2"	AW513	S5		2'-9"	0'-8"	2'-0"			0'-9"					
74	36	5	6'-7"	AW517	Str												
75																	
76	21	6	4'-0"	AW601	17		2'-0"	2'-0"									
77	4	6	34'-8"	AW602	Str												
78																	
79																	
80																	
81																	
82																	
83			WINGWALLS														
84																	
85	28	5	28'-2"	AW514	Str												
86	28	5	18'-2"	AW515	Str												
87	48	5	16'-8"	AW518	Str												
88																	
89	48	7	16'-8"	AW704	Str												
90																	
91																	
92																	
93			DECK														
94																	
95	1,854	4	27'-4"	S401	Str												
96	3,549	1	25'-3"	S403	1												
97	83		17'-3"	S404													
98	249		22'-4"	S405													
99	83		12'-0"	S406													
100	83		29'-2"	S407													
101	83	1	4'-9"	S408	1												
102	456	4	29'-9"	S409	Str												
103																	
104	4,100	5	4'-7"	S501	S5		1'-9"	0'-8"	1'-5"			0'-9"					
105	4,100	1	5'-11"	S502	S5	0'-9"	1'-2"	2'-1"	1'-2"			0'-9"					
106	4,918		34'-8"	S503	Str												
107	809		35'-11"	S504	15		3'-4"	0'-5 1/2"	3'-4"	2'-0"						34'-8	
108	1,618		36'-0"	S505	15		3'-8 1/2"	0'-6 1/2"	4'-0"	2'-9"						34'-8	
109	48	1	3'-0"	S506	Str												
110	432	5	6'-0"	S507	Str												
111																	
112																	
113																	
114			APPROACH SLABS														
115																	
116	88	4	30'-8"	AS401	Str												
117																	
118	496	7	14'-8"	AS701	Str												
119																	
120																	
121																	
122																	
123																	
124																	
125																	
126																	
127																	
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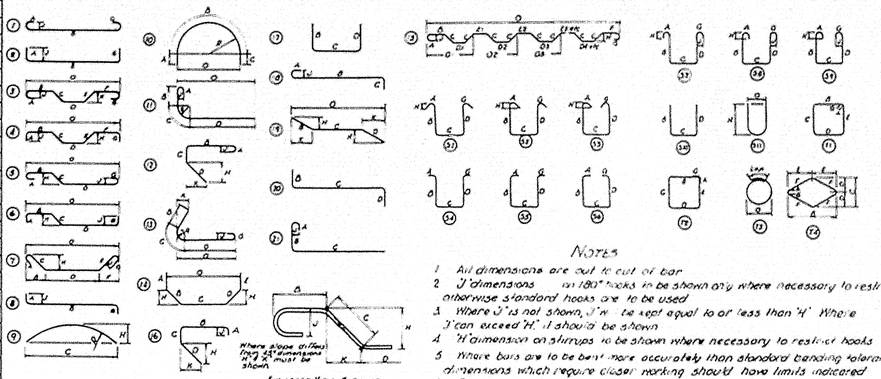
160																	
161																	
162																	

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

WATERVILLE INTERSTATE

TYPICAL BAR BENDS



NOTES

1. All dimensions are out to out of bar.
2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
3. Where 'J' is not shown, 'J' to be kept equal to or less than 'H'. Where 'J' can exceed 'H', 'J' should be shown. (J ≤ H)
4. 'H' dimension on stirrups to be shown where necessary to restrict hooks.
5. Where bars are to be bent more accurately than standard bending tolerances bending dimensions which require closer working should have limits indicated.
6. Figures in circles show types.
7. No allowance for bend curvature is to be made except for standard hook & hoop in excess of same.

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
174																	
175																	
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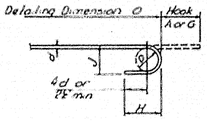
185																	
186																	
187																	
188																	
189																	
190																	



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
1/4" ø	#2
3/8" ø	#3
2/4" ø	#4
5/8" ø	#5
3/4" ø	#6
7/8" ø	#7
1" ø	#8
1 1/10" ø	#9
1 3/8" ø	#10
1 6/8" ø	#11

8 Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation AASHO M31-48 or its latest revision. All bars shall be deformed to conform with A.S.T.M. Specifications A 305-49.

WESTERLY ABUTMENT (SOUTHBOUND)
Footing... 6695 #
Stem ... 2343 #
Wings ... 4136 #
13,174 #

WESTERLY ABUTMENT (NORTHBOUND)
Footing. 6641 #
Stem 2243 #
Wings 3819 #
12,703 #

DECK 436,118 #

APPROACH SLABS 16,675 #

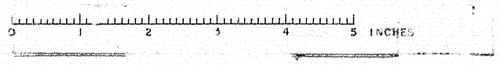
THE CLARKESON ENGINEERING CO., INC.

DESIGN H.L.	CHECK H.P.	BRIDGE NO.
DRAWN F.E.T.	APPROVED WATERVILLE	SURVEY PLAN

STATE HIGHWAY COMMISSION
INTERSTATE #95
OVER
MESSALONSKEE STREAM
& QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY
REINFORCEMENT SCHEDULE

SHEET 8 OF 13 SHEETS AUGUSTA, MAINE

78-205



Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
			NORTHEASTERLY ABUTMENT														
1																	
2			FOOTING														
3																	
4	91	5	5'-8"	ANE 501	Str												
5	1		3'-5"	ANE 502													
6	1		3'-7"	ANE 503													
7	1		3'-8"	ANE 504													
8	1		3'-10"	ANE 505													
9	1		4'-0"	ANE 506													
10	1		4'-2"	ANE 507													
11	1		4'-4"	ANE 508													
12	1		4'-5"	ANE 509													
13	1		4'-7"	ANE 510													
14	1		4'-9"	ANE 511													
15	1		4'-11"	ANE 512													
16	1		5'-1"	ANE 513													
17	1		5'-2"	ANE 514													
18	1		5'-4"	ANE 515													
19	1		5'-6"	ANE 516													
20	20		19'-6"	ANE 517													
21	7		17'-0"	ANE 518													
22	7		11'-6"	ANE 519													
23	7		10'-6"	ANE 520													
24	8		4'-0"	ANE 521	Str												
25	35	5	8'-6"	ANE 522	20		2'-0"	6'-0"									
26																	
27	3	6	11'-6"	ANE 601	20		4'-6"	7'-0"									
28																	
29	2	6	12'-0"	ANE 602	20		4'-6"	7'-6"									
30	1		6'-9"	ANE 603			2'-3"	4'-6"									
31	1		6'-11"	ANE 604			2'-5"										
32	1		7'-0"	ANE 605			2'-6"										
33	1		7'-2"	ANE 606			2'-8"										
34	1		7'-4"	ANE 607			2'-10"										
35	1		7'-6"	ANE 608			3'-0"										
36	1		7'-8"	ANE 609			3'-2"										
37	1		7'-10"	ANE 610			3'-4"										
38	1		7'-11"	ANE 611			3'-5"										
39	1		8'-1"	ANE 612			3'-7"										
40	1		8'-3"	ANE 613			3'-9"										
41	1		8'-5"	ANE 614			3'-11"										
42	1		8'-6"	ANE 615			4'-0"										
43	1		8'-8"	ANE 616			4'-2"										
44	1		8'-10"	ANE 617			4'-4"										
45	17	6	9'-0"	ANE 618	20		4'-4"	4'-6"									
46																	
47																	
48			STEM														
49																	
50	24	4	3'-2"	ANE 401	Str												
51	10	4	34'-8"	ANE 402	Str												
52																	
53	35	5	4'-11"	ANE 523	20		0'-11"	4'-0"									
54	35	5	8'-5"	ANE 524	17		5'-4"	0'-6"	2'-7"								
55	32	5	4'-0"	ANE 525	Str												
56																	
57	4	6	34'-8"	ANE 619	Str												
58	21	6	4'-0"	ANE 620	17		2'-0"	2'-0"									
59																	
60																	
61																	
62			NORTHERLY WING														
63																	
64	8	4	15'-3"	ANE 403	Str												
65	2		14'-6"	ANE 404													
66	2		12'-5"	ANE 405													
67	2		10'-4"	ANE 406													
68	2		8'-2"	ANE 407													
69	2		6'-0"	ANE 408													
70	2		3'-10"	ANE 409													
71	2	4	1'-4"	ANE 410	Str												
72																	
73	1	5	2'-11"	ANE 526	Str												
74	1		3'-5"	ANE 527													
75	1		3'-11"	ANE 528													
76	1		4'-4"	ANE 529													
77	1		4'-10"	ANE 530													
78	1		5'-4"	ANE 531													
79	1		5'-9"	ANE 532													
80	1	5	6'-3"	ANE 533	Str.												
81																	

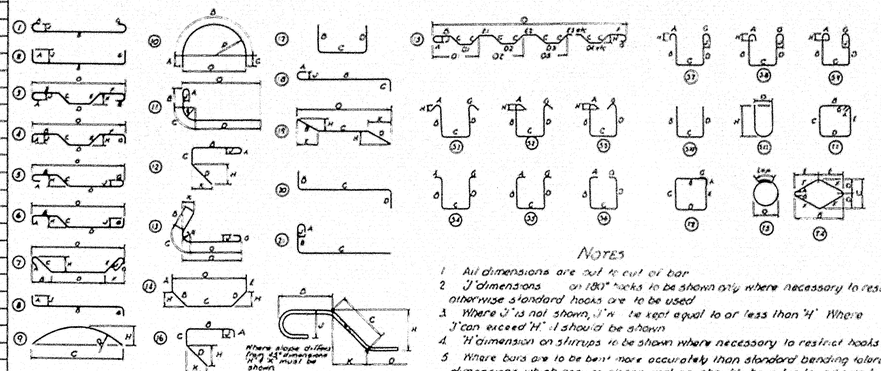
Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
82																	
83	1	5	6'-8"	ANE 534	Str												
84	1		7'-2"	ANE 535													
85	1		7'-8"	ANE 536													
86	1		8'-2"	ANE 537													
87	1		8'-8"	ANE 538													
88	1		9'-1"	ANE 539													
89	2	5	9'-5"	ANE 540	Str												
90																	
91	1	6	2'-11"	ANE 621	Str												
92	1		3'-5"	ANE 622													
93	1		3'-11"	ANE 623													
94	1		4'-4"	ANE 624													
95	1		4'-10"	ANE 625													
96	1		5'-4"	ANE 626													
97	1		5'-9"	ANE 627													
98	1		6'-3"	ANE 628													
99	1		6'-8"	ANE 629													
100	1		7'-2"	ANE 630													
101	1		7'-8"	ANE 631													
102	1		8'-2"	ANE 632													
103	1		8'-8"	ANE 633													
104	1		9'-1"	ANE 634													
105	2	6	9'-5"	ANE 635	Str												
106																	
107																	
108			SOUTHERLY WING														
109																	
110	6	4	8'-3"	ANE 411	Str												
111	4		17'-9"	ANE 412													
112	2		20'-2"	ANE 413													
113	2		18'-2"	ANE 414													
114	2		16'-1"	ANE 415													
115	2		14'-0"	ANE 416													
116	2		11'-10"	ANE 417													
117	2		9'-9"	ANE 418													
118	2		7'-8"	ANE 419													
119	2		5'-8"	ANE 420													
120	2		3'-5"	ANE 421													
121	2		1'-5"	ANE 422													
122	2	4	20'-8"	ANE 423	Str												
123																	
124	2	5	9'-5"	ANE 541	Str												
125	1		9'-1"	ANE 542													
126	1		11'-0"	ANE 543													
127	1		10'-7"	ANE 544													
128	1		10'-1"	ANE 545													
129	1		9'-8"	ANE 546													
130	1		9'-2"	ANE 547													
131	1		8'-8"	ANE 548													
132	1		8'-2"	ANE 549													
133	1		7'-8"	ANE 550													
134	1		7'-2"	ANE 551													
135	1		9'-9"	ANE 552													
136	1		9'-3"	ANE 553													
137	1		8'-9"	ANE 554													
138	1		8'-3"	ANE 555													
139	1		7'-9"	ANE 556													
140	1		7'-4"	ANE 557													
140	1		6'-10"	ANE 558													
141	1		6'-4"	ANE 559													
142	1	5	5'-10"	ANE 560	Str.												
143																	
144	2	6	9'-5"	ANE 636	Str												
145	1		9'-1"	ANE 637													
146	1		11'-0"	ANE 638													
147	1		10'-7"	ANE 639													
148	1		10'-1"	ANE 640													
149	1		9'-8"	ANE 641													
150	1		9'-2"	ANE 642													
151	1		8'-8"	ANE 643													
152	1		8'-2"	ANE 644													
153	1		7'-8"	ANE 645													
154	1		7'-2"	ANE 646													
155	1		9'-9"	ANE 647													
156	1		9'-3"	ANE 648													
157	1		8'-9"	ANE 649													
158	1		8'-3"	ANE 650													
159	1		7'-9"	ANE 651													
160	1		7'-4"	ANE 652													
161	1	6	6'-10"	ANE 653	Str												
162																	

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163																	
164	1	6	6'-4"	ANE 654	Str												
165	1	6	5'-10"	ANE 655	Str												
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
174																	
175																	
176																	
177																	
178																	
179																	
180																	
181																	
182																	
183																	
184																	
185																	
186																	
187																	
188																	
189																	
190																	

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

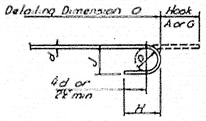
WATERVILLE INTERSTATE

TYPICAL BAR BENDS



NOTES

1. All dimensions are out to out of bar.
2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
3. Where 'J' is not shown, 'J' is to be kept equal to or less than 'H'. Where 'J' can exceed 'H', 'J' should be shown.
4. 'H' dimension on stirrups to be shown where necessary to restrict hooks.
5. Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer working should have limits indicated.
6. Figures in circles show types.
7. No allowance for bend curvature is to be made except for standard hook if radii in excess of same.



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
¼" ø	#2
⅜" ø	#3
½" ø	#4
⅝" ø	#5
¾" ø	#6
⅞" ø	#7
1" ø	#8
1 1/8" ø	#9
1 1/4" ø	#10
1 3/8" ø	#11

8 Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation A.A.S.H.O. M31-48 or its latest revision. All bars shall be deformed to conform with A.S.T.M. Specifications A 305-49.

NORTHEASTERLY ABUTMENT

Footing	2115 #
Stem	1236 #
Wings	1130 #
Total	4481 #

THE CLARKESON ENGINEERING CO., INC.

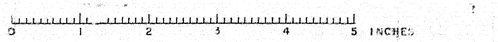
DESIGN H P	CHECK C J M	BRIDGE NO. SURVEY
DRAWN S A L	APPROVED W A H C J M	PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
MESSALONSKEE STREAM
& QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY
REINFORCEMENT SCHEDULE

SHEET 9 OF 13 SHEETS AUGUSTA, MAINE

78-206



B.P.R. REG NO	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6 (23)		

WATERVILLE INTERSTATE

SOUTHEASTERLY ABUTMENT

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
1																	
2			FOOTING														
3																	
4	86	5	5'-8"	ASE-501	Str.												
5	1	〃	3'-5"	ASE-502	〃												
6	1		3'-7"	ASE-503													
7	1		3'-8"	ASE-504													
8	1		3'-10"	ASE-505													
9	1		4'-0"	ASE-506													
10	1		4'-2"	ASE-507													
11	1		4'-4"	ASE-508													
12	1		4'-5"	ASE-509													
13	1		4'-7"	ASE-510													
14	1		4'-9"	ASE-511													
15	1		4'-11"	ASE-512													
16	1		5'-1"	ASE-513													
17	1		5'-2"	ASE-514													
18	1		5'-4"	ASE-515													
19	1		5'-6"	ASE-516													
20	20		19'-6	ASE-517													
21	7		17'-0"	ASE-518													
22	7		15'-0"	ASE-519	〃												
23	4		4'-0"	ASE-520	Str.												
24	35	5	8'-4"	ASE-521	20		2'-0"	6'-4"									
25																	
26	3	6	12'-0"	ASE-601	20		4'-6"	7'-6"									
27																	
28	1	6	6'-9"	ASE-602	20		2'-3"	4'-6"									
29	1	〃	6'-11"	ASE-603	〃		2'-5"	〃									
30	1		7'-0	ASE-604			2'-6"										
31	1		7'-2"	ASE-605			2'-8"										
32	1		7'-4"	ASE-606			2'-10"										
33	1		7'-6"	ASE-607			3'-0										
34	1		7'-8"	ASE-608			3'-2"										
35	1		7'-10"	ASE-609			3'-4"										
36	1		7'-11"	ASE-610			3'-5"										
37	1		8'-1"	ASE-611			3'-7"										
38	1		8'-3"	ASE-612			3'-9"										
39	1		8'-5"	ASE-613			3'-11"										
40	1		8'-6"	ASE-614			4'-0"										
41	1		8'-8"	ASE-615			4'-2"										
42	1		8'-10"	ASE-616	〃		4'-4"	〃									
43	14	6	9'-0"	ASE-617	20		4'-6"	4'-6"									
44																	
45																	
46			STEM														
47																	
48	24	4	3'-2"	ASE-701	Str.												
49	10	4	34'-8"	ASE-702	Str.												
50																	
51	35	5	4'-11"	ASE-722	20		0'-11"	4'-0"									
52	35	5	8'-5"	ASE-723	〃		5'-4"	0'-6"	2'-7"								
53	32	5	4'-0"	ASE-724	Str.												
54																	
55	4	6	34'-8"	ASE-618	〃												
56	21	6	4'-0"	ASE-619	〃		2'-0"	2'-0"									
57																	
58																	
59																	
60			NORTHERLY WING														
61																	
62	8	4	15'-2"	ASE-403	Str.												
63	2	〃	13'-0"	ASE-404	〃												
64	2		10'-10"	ASE-405													
65	2		8'-9"	ASE-406													
66	2		6'-7"	ASE-407													
67	2		4'-4"	ASE-408													
68	2	〃	1'-3"	ASE-409	〃												
69	2	4	15'-1"	ASE-410	Str.												
70																	
71	1	5	3'-4"	ASE-525	Str.												
72	1	〃	3'-10"	ASE-526	〃												
73	1		4'-3"	ASE-527													
74	1		4'-9"	ASE-528													
75	1		5'-2"	ASE-529													
76	1		5'-8"	ASE-530													
77	1		6'-1"	ASE-531													
78	1		6'-7"	ASE-532													
79	1	〃	7'-1"	ASE-533	〃												
80	1	5	7'-6"	ASE-534	Str.												
81																	

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
82																	
83	1	5	7'-11"	ASE-535	Str.												
84	1	〃	8'-5"	ASE-536	〃												
85	1		8'-10"	ASE-537													
86	1	〃	9'-4"	ASE-538	〃												
87	2	5	9'-8"	ASE-539	Str.												
88																	
89	1	6	3'-4"	ASE-620	Str.												
90	1	〃	3'-10"	ASE-621	〃												
91	1		4'-3"	ASE-622													
92	1		4'-9"	ASE-623													
93	1		5'-2"	ASE-624													
94	1		5'-8"	ASE-625													
95	1		6'-1"	ASE-626													
96	1		6'-7"	ASE-627													
97	1		7'-1"	ASE-628													
98	1		7'-6"	ASE-629													
99	1		7'-11"	ASE-630													
100	1		8'-5"	ASE-631													
101	1		8'-10"	ASE-632													
102	1	〃	9'-4"	ASE-633	〃												
103	2	6	9'-8"	ASE-634	Str.												
104																	
105																	
106																	
107			SOUTHERLY WING														
108																	
109	6	4	12'-9"	ASE-411	Str.												
110	8	〃	15'-2"	ASE-412	〃												
111	2		14'-10"	ASE-413													
112	2		12'-9"	ASE-414													
113	2		10'-7"	ASE-415													
114	2		8'-5"	ASE-416													
115	2		6'-3"	ASE-417													
116	2	〃	4'-0"	ASE-418	〃												
117	2	4	1'-3"	ASE-419	Str.												
118																	
119	2	5	9'-9"	ASE-540	Str.												
120	1	〃	9'-4"	ASE-541	〃												
121	1		11'-11"	ASE-542													
122	1		11'-5"	ASE-543													
123	1		10'-11"	ASE-544													
124	1		10'-6"	ASE-545													
125	1		10'-0"	ASE-546													
126	1		9'-6"	ASE-547													
127	1		9'-1"	ASE-548													
128	1		8'-7"	ASE-549													
129	1		8'-1"	ASE-550													
130	1		7'-8"	ASE-551													
131	1		7'-2"	ASE-552													
132	1	〃	6'-9"	ASE-553	〃												
133	1	5	6'-3"	ASE-554	Str.												
134																	
135	2	6	9'-9"	ASE 634	Str.												
136	1	〃	9'-4"	ASE-635	〃												
137	1		11'-11"	ASE-636													
138	1		11'-5"	ASE-637													
139	1		10'-11"	ASE-638													
140	1		10'-6"	ASE-639													
140	1		10'-0"	ASE-640													
141	1		9'-6"	ASE-641													
142	1		9'-1"	ASE-642													
143	1		8'-7"	ASE-643													
144	1		8'-1"	ASE-644													
145	1		7'-8"	ASE-645													
146	1		7'-2"	ASE-646													
147	1	〃	6'-9"	ASE-647	〃												
148	1	6	6'-3"	ASE-648	Str.												
149																	
150																	
151																	
152																	
153																	
154																	
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156																	
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158																	
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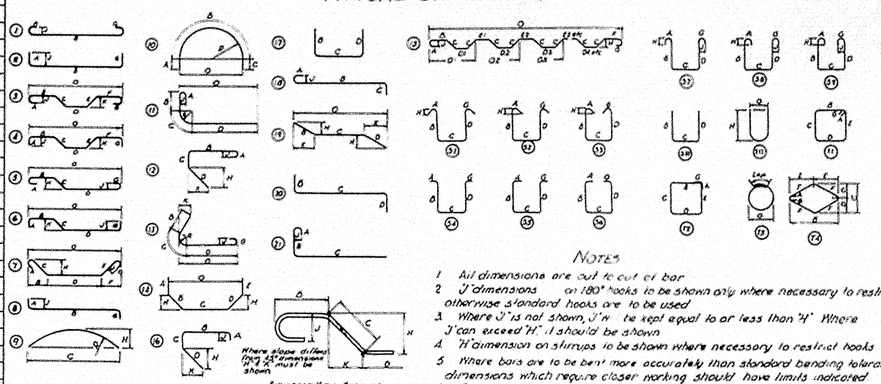
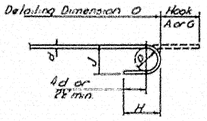
162																	

TYPICAL BAR BENDS



NOTES

1. All dimensions are out to out of bar.
2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
3. Where 'J' is not shown, 'J' is to be kept equal to or less than 'H'. Where 'J' can exceed 'H', J should be shown.
4. 'H' dimension on stirrups to be shown where necessary to restrict hooks.
5. Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer working should have limits indicated.
6. Figures in circles show types.
7. No allowance for bend curvature is to be made except for standard hook & radii in excess of same.



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
½" ø	# 2
⅝" ø	# 3
¾" ø	# 4
⅞" ø	# 5
1" ø	# 6
1⅛" ø	# 7
1¼" ø	# 8
1⅜" ø	# 9
1⅝" ø	# 10
1¾" ø	# 11

6 Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation A.A.S.H.O. M31-48 or its latest revision. All bars shall be deformed to conform with A.S.T.M. Specifications A 305-49.

SOUTHEASTERLY ABUTMENT

Footing	1954 #
Stem	1236 #
Wings	1019 #
Total	4209 #

THE CLARKESON ENGINEERING CO., INC.

DESIGN H.P.	CHECK C.J.M.	BRIDGE NO.
DRAWN F.E.T.	APPROVED W.A.N. C.J.M.	SURVEY PLOT

STATE HIGHWAY COMMISSION

INTERSTATE #95

OVER

MESSALONSKEE STREAM & QUARRY ROAD (RELOC)

IN THE CITY OF

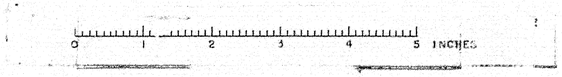
WATERVILLE

KENNEBEC COUNTY

REINFORCEMENT SCHEDULE

SHEET 10 OF 13 SHEETS AUGUSTA, MAINE

78-207



Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
	PIER A FOOTING																
1	(PIER L FOOTING SIMILAR)																
2	41	11	21'-6"	FA 1101	Str												
3	32	11	26'-0"	FA 1102	Str												
4	70	11	6'-3"	FA 1103	Str												
5																	
6	17	8	26'-0"	FA 804	Str												
7	21	8	21'-6"	FA 805	Str												
8																	
9	12	7	21'-6"	FA 707	Str												
10	10	7	26'-0"	FA 708	Str												
11																	
12																	
13	PIER B FOOTING																
14	(PIER C,M,N FOOTING SIMILAR)																
15	70	11	14'-0"	FB 1105	Str												
16	4	11	19'-6"	FB 1106	Str												
17	32	11	24'-6"	FB 1109	Str												
18	48	11	38'-6"	FB 1108	Str												
19																	
20	68	7	24'-6"	FB 705	Str												
21	47	7	38'-6"	FB 704	Str												
22	17	7	38'-6"	FB 705	7		10'-6"	17'-6"	10'-6"								
23	23	7	33'-10"	FB 706	7		10'-5"	13'-0"	10'-5"								
24																	
25																	
26	PIER D FOOTING																
27	(PIER O FOOTING SIMILAR)																
28	70	11	7'-6"	FD 1104	Str												
29																	
30	24	10	16'-6"	FD 1003	Str												
31	24	10	22'-6"	FD 1004	Str												
32																	
33	17	5	22'-6"	FD 505	Str												
34	23	5	16'-6"	FD 502	Str												
35																	
36																	
37	PIER E FOOTING																
38	(PIER F,G,P,Q,R FOOTING SIMILAR)																
39	66	10	21'-0"	FE 1006	Str												
40																	
41	28	8	14'-6"	FE 803	Str												
42	24	8	20'-6"	FE 802	Str												
43																	
44	15	5	20'-6"	FE 505	Str												
45	21	5	14'-6"	FE 504	Str												
46																	
47																	
48	PIER H FOOTING																
49	34	10	18'-6"	FH 1002	Str												
50	24	10	22'-6"	FH 1003	Str												
51	66	10	21'-0"	FH 1006	Str												
52																	
53	19	7	22'-6"	FH 705	Str												
54	23	7	18'-6"	FH 704	Str												
55																	
56																	
57	PIER J FOOTING																
58	(PIER T FOOTING SIMILAR)																
59	34	10	18'-6"	FJ 1002	Str												
60	24	10	22'-6"	FJ 1003	Str												
61	62	10	7'-0"	FJ 1004	Str												
62																	
63	19	7	22'-6"	FJ 705	Str												
64	23	7	18'-6"	FJ 704	Str												
65																	
66																	
67	PIER K FOOTING																
68	(PIER S,U FOOTING SIMILAR)																
69	62	10	6'-6"	FK 1004	Str												
70																	
71	28	8	14'-6"	FK 803	Str												
72	19	8	18'-6"	FK 803	Str												
73																	
74	15	5	18'-6"	FK 505	Str												
75	19	5	14'-6"	FK 504	Str												
76																	
77																	
78																	
79																	
80																	
81																	

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
82		VERTICAL COLUMN STEEL															
83																	
84		PIER A															
85	70	11	21'-0"	CA 1107	Str												
86	14	11	16'-0"	CA 1110	9		15'-6"						1'-6"			19'-5"	
87	66	10	21'-0"	CA 1006	Str												
88	62	10	24'-0"	CA 1007	Str												
89																	
90		PIER B															
91	70	11	21'-0"	CB 1107	Str												
92	14	11	16'-0"	CB 1110	9		15'-6"						1'-6"			19'-5"	
93	66	10	21'-0"	CB 1006	Str												
94	62	10	27'-0"	CB 1008	Str												
95																	
96		PIER C															
97	70	11	21'-0"	CC 1107	Str												
98	14	11	16'-0"	CC 1110	9		15'-6"						1'-6"			19'-5"	
99	66	10	21'-0"	CC 1006	Str												
100	62	10	30'-0"	CC 1013	Str												
101																	
102		PIER D															
103	70	11	21'-0"	CD 1107	Str												
104	14	11	16'-0"	CD 1110	9		15'-6"						1'-6"			19'-5"	
105	66	10	21'-0"	CD 1006	Str												
106	62	10	24'-0"	CD 1007	Str												
107																	
108		PIER E															
109	14	11	16'-0"	CE 1110	9		15'-6"						1'-6"			19'-5"	
110	62	10	28'-0"	CE 1010	Str												
111																	
112		PIER F															
113	14	11	16'-0"	CF 1110	9		15'-6"						1'-6"			19'-5"	
114	62	10	23'-0	CF 1009	Str												
115																	
116		PIER G															
117	14	11	16'-0"	CG 1110	9		15'-6"						1'-6"			19'-5"	
118	62	10	28'-0"	CG 1010	Str												
119																	
120		PIER H															
121	14	11	16'-0"	CH 1110	9		15'-6"						1'-6"			19'-5"	
122	62	10	22'-0"	CH 1012	Str												
123																	
124		PIER J															
125	14	11	16'-0"	CJ 1110	9		15'-6"						1'-6"			19'-5"	
126	62	10	30'-0"	CJ 1013	Str												
127																	
128		PIER K															
129	14	11	16'-0"	CK 1110	9		15'-6"						1'-6"			19'-5"	
130	62	10	18'-6"	CK 1002	Str												
131																	
132		PIER L															
133	70	11	21'-0"	CL 1107	Str												
134	14	11	16'-0"	CL 1110	9		15'-6"						1'-6"			19'-5"	
135	66	10	21'-0"	CL 1006	Str												
136	62	10	23'-0"	CL 1009	Str												
137																	
138		PIER M															
139	70	11	21'-0"	CM 1107	Str												
140	14	11	16'-0"	CM 1110	9		15'-6"						1'-6"			19'-5"	
140	66	10	21'-0"	CM 1006	Str												
141	62	10	26'-0"	CM 1011	Str												
142																	
143		PIER N															
144	70	11	21'-0"	CN 1107	Str												
145	14	11	16'-0"	CN 1110	9		15'-6"						1'-6"			19'-5"	
146	66	10	21'-0"	CN 1006	Str												
147	62	10	28'-0"	CN 1010	Str												
148																	
149		PIER O															
150	70	11	21'-0"	CO 1107	Str												
151	14	11	16'-0"	CO 1110	9		15'-6"						1'-6"			19'-5"	
152	128	10	21'-0"	CO 1006	Str												
153																	
154		PIER P															
155	14	11	16'-0"	CP 1110	9		15'-6"						1'-6"			19'-5"	
156	62	10	23'-0"	CP 1009	Str												
157																	
158		PIER Q															
159	14	11	16'-0"	CQ 1110	9		15'-6"						1'-6"			19'-5"	
160	62	10	23'-0"	CQ 1009	Str												
161																	
162																	

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163		PIER R															
164	14	11	16'-0"	CR 1110	9			15'-6"									
165	62	10	26'-0"	CR 1011	Str												
166																	
167		PIER S															
168	14	11	16'-0"	CS 1110	9			15'-6"									
169	62	10	27'-0"	CS 1008	Str												
170																	
171		PIER T															
172	14	11	16'-0"	CT 1110	9			15'-6"									
173	62	10	27'-0"	CT 1008	Str												
174																	
175		PIER U															
176	14	11	16'-0"	CU 1110	9			15'-6"									
177	62	10	14'-9"	CU 1014	Str												
178																	
179																	
180																	
181																	
182																	
183																	
184																	

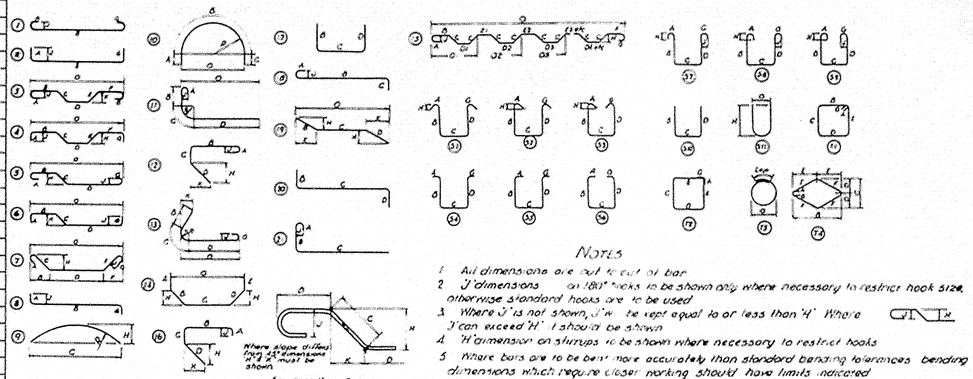
PIER	FOOTING	STEM	CAP	TOTAL
A	15,615	25,903	10,915	52,453
B	29,620	27,030	10,915	67,565
C	29,620	28,027	13,510	71,157
D	7,610	25,825	4,499	37,934
E	8,998	11,391	4,499	24,888
F	8,998	9,697	4,499	23,194
G	8,998	11,391	4,499	24,888
H	12,733	9,252	4,499	26,484
J	8,638	10,943	4,499	24,080
K	4,332	6,809	4,499	15,640
L	15,615	25,464	10,915	51,994
M	29,620	26,561	10,915	67,096
N	29,620	27,297	13,510	70,427
O	7,610	24,735	4,499	36,844
P	8,998	9,697	4,499	23,194
Q	8,998	9,608	4,499	23,105
R	8,998	10,765	4,499	24,262
S	4,332	9,873	4,499	18,704
T	8,638	9,873	4,499	23,010
U	4,332	5,463	4,499	14,294

Total ..... 721,213#

B.P.R. REG. NO.	STATE	PROJECT NO	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

WATERVILLE INTERSTATE

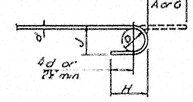
TYPICAL BAR BENDS



NOTES

1. All dimensions are out to out of bar.
2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
3. Where 'J' is not shown, 'J' is to be kept equal to or less than '4' Where 'J' can exceed 'H' it should be shown.
4. 'H' dimension on stirrups to be shown where necessary to restrict hooks.
5. Where bars are to be bent more accurately than standard bending tolerances bending dimensions which require closer working should have limits indicated.
6. Figures in circles show types.
7. No allowance for bend curvature is to be made except for standard hook & radii in excess of same.

Detailing Dimension O — Hook A or G



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present Number(s)
¼" ø	#2
⅜" ø	#3
½" ø	#4
⅝" ø	#5
¾" ø	#6
⅞" ø	#7
1" ø	#8
1⅛" ø	#9
1¼" ø	#10
1⅜" ø	#11

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

THE CLARKESON ENGINEERING CO., INC.

DESIGN C.J.M.	CHECK H.P.	BRIDGE ID SHEET
DRAWN A.L.	APPROVED WA HAC JM	PLOT

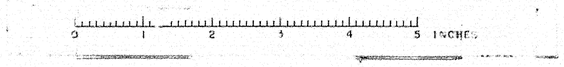
STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
MESSALONSKEE STREAM
& QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY

REINFORCEMENT SCHEDULE

SHEET 11 OF 13 SHEETS — AUGUSTA, MAINE

78-208



Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
1	14	5	16'-0"	ST500	T-1	0'-5"	3'-5½"	4'-1½"	3'-5½"	4'-1½"		0'-5"					
2	14	↓	16'-1"	ST501	↓	↓	3'-6"	↓	3'-6"	↓		↓					
3	14		16'-2"	ST502			3'-6½"		3'-6½"								
4	14		16'-3"	ST503			3'-7"		3'-7"								
5	14		16'-4"	ST504			3'-7½"		3'-7½"								
6	40		16'-5"	ST505			3'-8"		3'-8"								
7	40		16'-6"	ST506			3'-8½"		3'-8½"								
8	40		16'-7"	ST507			3'-9"		3'-9"								
9	38		16'-8"	ST508			3'-9½"		3'-9½"								
10	34		16'-9"	ST509			3'-10"		3'-10"								
11	30		16'-10"	ST510			3'-10½"		3'-10½"								
12	32		17'-0"	ST511			3'-11½"		3'-11½"								
13	30		17'-1"	ST512			4'-0"		4'-0"								
14	32		17'-2"	ST513			4'-0½"		4'-0½"								
15	32		17'-3"	ST514			4'-1"		4'-1"								
16	32		17'-4"	ST515			4'-1½"		4'-1½"								
17	36		17'-5"	ST516			4'-2"		4'-2"								
18	36		17'-6"	ST517			4'-2½"		4'-2½"								
19	40		17'-7"	ST518			4'-3"		4'-3"								
20	44		17'-9"	ST519			4'-4"		4'-4"								
21	42		17'-10"	ST520			4'-4½"		4'-4½"								
22	42		17'-11"	ST521			4'-5"		4'-5"								
23	34		18'-0"	ST522			4'-5½"		4'-5½"								
24	34		18'-1"	ST523			4'-6"		4'-6"								
25	32		18'-2"	ST524			4'-6½"		4'-6½"								
26	30		18'-3"	ST525			4'-7"		4'-7"								
27	28		18'-4"	ST526			4'-7½"		4'-7½"								
28	28		18'-6"	ST527			4'-8½"		4'-8½"								
29	24		18'-7"	ST528			4'-9"		4'-9"								
30	22		18'-8"	ST529			4'-9½"		4'-9½"								
31	24		18'-9"	ST530			4'-10"		4'-10"								
32	20		18'-10"	ST531			4'-10½"		4'-10½"								
33	20		18'-11"	ST532			4'-11"		4'-11"								
34	4		19'-0"	ST533			4'-11½"		4'-11½"								
35	14		19'-1"	ST534			5'-0"		5'-0"								
36	14		19'-3"	ST535			5'-1"		5'-1"								
37	10		19'-4"	ST536			5'-1½"		5'-1½"								
38	14		19'-5"	ST537			5'-2"		5'-2"								
39	14		19'-6"	ST538			5'-2½"		5'-2½"								
40	16		19'-7"	ST539			5'-3"		5'-3"								
41	16		19'-8"	ST540			5'-3½"		5'-3½"								
42	16		19'-9"	ST541			5'-4"		5'-4"								
43	16		19'-10"	ST542			5'-4½"		5'-4½"								
44	16		20'-0"	ST543			5'-5½"		5'-5½"								
45	16		20'-1"	ST544			5'-6"		5'-6"								
46	16		20'-2"	ST545			5'-6½"		5'-6½"								
47	16		20'-3"	ST546			5'-7"		5'-7"								
48	16		20'-4"	ST547			5'-7½"		5'-7½"								
49	16		20'-5"	ST548			5'-8"		5'-8"								
50	16		20'-6"	ST549			5'-8½"		5'-8½"								
51	16		20'-7"	ST550			5'-9"		5'-9"								
52	14		20'-9"	ST551			5'-10"		5'-10"								
53	14		20'-10"	ST552			5'-10½"		5'-10½"								
54	12		20'-11"	ST553			5'-11"		5'-11"								
55	10		21'-0"	ST554			5'-11½"		5'-11½"								
56	8		21'-1"	ST555			6'-0"		6'-0"								
57	6		21'-2"	ST556			6'-0½"		6'-0½"								
58	6		21'-3"	ST557			6'-1"		6'-1"								
59	2	↓	21'-4"	ST558	↓	↓	6'-1½"	↓	6'-1½"	↓		↓					
60	2	5	21'-5"	ST559	T-1	0'-5"	6'-2"	4'-1½"	6'-2"	4'-1½"		0'-5"					
61																	
62																	
63																	
64	198	5	27'-0"	S5560	T-1	0'-5"	10'-5"	2'-8"	10'-5"	2'-8"		0'-5"					
65	470	5	27'-4"	S5561	T-1	0'-5"	10'-7"	2'-8"	10'-7"	2'-8"		0'-5"					
66																	
67																	
68																	
69																	
70																	
71																	
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73																	
74																	
75																	
76																	
77																	
78																	
79																	
80																	
81																	

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
82																	
83	7	5	20'-4"	S500	T-1	0'-5"	3'-5½"	6'-3½"	3'-5½"	6'-3½"		0'-5"					
84	7	↓	20'-5"	S501	↓	↓	3'-6"	↓	3'-6"	↓		↓					
85	7		20'-6"	S502			3'-6½"		5'-6½"								
86	7		20'-7"	S503			3'-7"		3'-7"								
87	7		20'-8"	S504			3'-7½"		3'-7½"								
88	20		20'-9"	S505			3'-8"		3'-8"								
89	20		20'-10"	S506			3'-8½"		3'-8½"								
90	20		20'-11"	S507			3'-9"		3'-9"								
91	19		21'-0"	S508			3'-9½"		3'-9½"								
92	17		21'-1"	S509			3'-10"		3'-10"								
93	15		21'-2"	S510			3'-10½"		3'-10½"								
94	16		21'-4"	S511			3'-11½"		3'-11½"								
95	15		21'-5"	S512			4'-0"		4'-0"								
96	16		21'-6"	S513			4'-0½"		4'-0½"								
97	16		21'-7"	S514			4'-1"		4'-1"								
98	16		21'-8"	S515			4'-1½"		4'-1½"								
99	19		21'-9"	S516			4'-2"		4'-2"								
100	18		21'-10"	S517			4'-2½"		4'-2½"								
101	20		21'-11"	S518			4'-3"		4'-3"								
102	22		22'-1"	S519			4'-4"		4'-4"								
103	21		22'-2"	S520			4'-4½"		4'-4½"								
104	21		22'-3"	S521			4'-5"		4'-5"								
105	17		22'-4"	S522			4'-5½"		4'-5½"								
106	17		22'-5"	S523			4'-6"		4'-6"								
107	16		22'-6"	S524			4'-6½"		4'-6½"								
108	15		22'-7"	S525			4'-7"		4'-7"								
109	14		22'-8"	S526			4'-7½"		4'-7½"								
110	14		22'-10"	S527			4'-8½"		4'-8½"								
111	12		22'-11"	S528			4'-9"		4'-9"								
112	11		23'-0"	S529			4'-9½"		4'-9½"								
113	12		23'-1"	S530			4'-10"		4'-10"								
114	10		23'-2"	S531			4'-10½"		4'-10½"								
115	10		23'-3"	S532			4'-11"		4'-11"								
116	7		23'-4"	S533			4'-11½"		4'-11½"								
117	7		23'-5"	S534			5'-0"		5'-0"								
118	7		23'-7"	S535			5'-1"		5'-1"								
119	5		23'-8"	S536			5'-1½"		5'-1½"								
120	7		23'-9"	S537			5'-2"		5'-2"								
121	7		23'-10"	S538			5'-2½"		5'-2½"								
122	8		23'-11"	S539			5'-3"		5'-3"								
123	8		24'-0"	S540			5'-3½"		5'-3½"								
124	8		24'-1"	S541			5'-4"		5'-4"								
125	8		24'-2"	S542			5'-4½"		5'-4½"								
126	8		24'-4"	S543			5'-5½"		5'-5½"								
127	8		24'-5"	S544			5'-6"		5'-6"								
128	8		24'-6"	S545			5'-6½"		5'-6½"								
129	8		24'-7"	S546			5'-7"		5'-7"								
130	8		24'-8"	S547			5'-7½"		5'-7½"								
131	8		24'-9"	S548			5'-8"		5'-8"								
132	8		24'-10"	S549			5'-8½"		5'-8½"								
133	8		24'-11"	S550			5'-9"		5'-9"								
134	7		25'-1"	S551			5'-10"		5'-10"								
135	7		25'-2"	S552			5'-10½"		5'-10½"								
136	6		25'-3"	S553			5'-11"		5'-11"								
137	5		25'-4"	S554			5'-11½"		5'-11½"								
138	4		25'-5"	S555			6'-0"		6'-0"								
139	3		25'-6"	S556			6'-0½"		6'-0½"								
140	3		25'-7"	S557			6'-1"		6'-1"								
140	1	↓	25'-8"	S558	↓	↓	6'-1½"	↓	6'-1½"	↓		↓					
141	1	5	25'-9"	S559	T-1	0'-5"	6'-2"	6'-3½"	6'-2"	6'-3½"		0'-5"					
142																	
143																	
144																	
145																	
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162																	

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163																	
164																	
165																	
166																	
167																	
168																	
169																	
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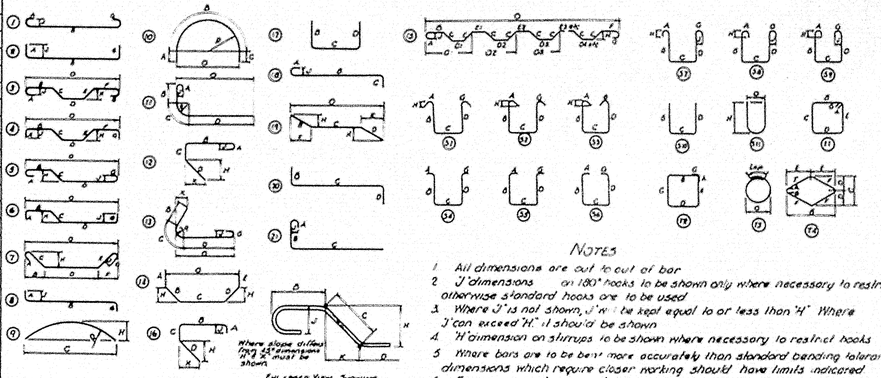
189																	
190																	

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

WATERVILLE INTERSTATE

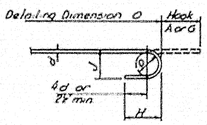
TYPICAL BAR BENDS



ENLARGED VIEW SHOWING BAR BENDING DETAILS

NOTES

1. All dimensions are out to out of bar.
2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
3. Where 'J' is not shown, 'J' is to be kept equal to or less than 'H'. Where 'J' can exceed 'H', J should be shown.
4. 'H' dimension on stirrups to be shown where necessary to restrict hooks.
5. Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer working should have limits indicated.
6. Figures in circles show types.
7. No allowance for bend curvature is to be made except for standard hook & radii in excess of same.



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
¼" ø	#2
⅜" ø	#3
½" ø	#4
⅝" ø	#5
¾" ø	#6
⅞" ø	#7
1" ø	#8
1⅛" ø	#9
1¼" ø	#10
1⅜" ø	#11

6 Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation AASHO M31-48 or its latest revision.
All bars shall be deformed to conform with A.S.T.M. Specifications A305-49.

THE CLARKESON ENGINEERING CO., INC.

DESIGN C.J.M.	CHECK H.P.	BRIDGE NO.
DRAWN F.E.T.	APPROVED W.A.H. & C.J.M.	SURVEY PLOT

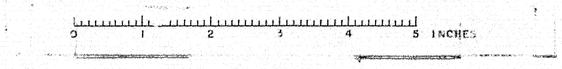
STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY

PIER COLUMN TIES

SHEET 12 OF 13 SHEETS — AUGUSTA, MAINE

78-209



Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
	PIER A CAP STEEL																
1	(PIERS B, L, M, SIMILAR)																
2	10	11	37'-2"	PCA1101	1	1'-7"	34'-0"					1'-7"		1'-2"			34'-0"
3	14	1	34'-0"	PCA1102	Str												
4	4		41'-0"	PCA1102	22	1'-7"	2'-6"	5'-5"	27'-0"	5'-5"	2'-6"	1'-7"	5'-1½"	1'-2"			31'-6½"
5	4		38'-2"	PCA1104	22	1'-7"	2'-6"	5'-3"	24'-6"	5'-3"	2'-6"	1'-7"	5'-0"	1'-2"			29'-0½"
6	4		35'-2"	PCA1105	22	1'-7"	2'-6"	5'-3"	21'-6"	5'-3"	2'-6"	1'-7"	5'-0"	1'-2"			26'-0½"
7	2		29'-2"	PCA1106	Str												
8	2		19'-8"	PCA1107	Str												
9	2	1	14'-9"	PCA1108	Str												
10	2	11	11'-0"	PCA1109	Str												
11																	
12	16	6	3'-8"	PCA600	Str												
13																	
14	4	6	17'-3"	PCS600	T1	0'-5½"	2'-6½"	5'-7½"	2'-6½"	5'-7½"		0'-5½"					
15	8	1	17'-4"	PCS601	1	1	1	5'-8"	1	5'-8"		1					
16	8		17'-5"	PCS602				5'-8½"		5'-8½"							
17	4		17'-6"	PCS603				5'-9"		5'-9"							
18	1		17'-7"	PCS604				5'-9½"		5'-9½"							
19			17'-8"	PCS605				5'-10"		5'-10"							
20			17'-10"	PCS606				5'-11"		5'-11"							
21			17'-11"	PCS607				5'-11½"		5'-11½"							
22			18'-0"	PCS608				6'-0"		6'-0"							
23			18'-2"	PCS609				6'-1"		6'-1"							
24			18'-4"	PCS610				6'-2"		6'-2"							
25			18'-6"	PCS611				6'-3"		6'-3"							
26			18'-10"	PCS612				6'-5"		6'-5"							
27			19'-0"	PCS613				6'-6"		6'-6"							
28			19'-4"	PCS614				6'-8"		6'-8"							
29			9'-8"	PCS615				6'-10"		6'-10"							
30			19'-11"	PCS616				6'-11½"		6'-11½"							
31			20'-3"	PCS617				7'-1½"		7'-1½"							
32			20'-8"	PCS618				7'-4"		7'-4"							
33			21'-0"	PCS619				7'-6"		7'-6"							
34			21'-7"	PCS620				7'-9½"		7'-9½"							
35			22'-2"	PCS621				8'-1"		8'-1"							
36			22'-10"	PCS622				8'-5"		8'-5"							
37	1	1	23'-7"	PCS623	1	1	1	8'-9½"	1	8'-9½"		1					
38	4	6	24'-7"	PCS624	T1	0'-5½"	2'-6½"	9'-3½"	2'-6½"	9'-3½"		0'-5½"					
39																	
40																	
41	PIER C CAP STEEL																
42	(PIER N SIMILAR)																
43	Similar to Pier A except with following additions																
44																	
45	82	7	14'-0"	PCC 700	Str		6'-7"	8'-8"	6'-2"								
46																	
47	7	5	34'-0"	PCC 500	Str.												
48																	
49																	
50	PIER E CAP STEEL																
51	(PIERS D, F, G, H, J, K, O, P, Q, R, S, T, U SIMILAR)																
52	10	11	37'-2"	PCE1101	1	1'-7"	34'-0"					1'-2"					34'-0"
53																	
54	4	10	34'-0"	PCE1000	Str												
55	2	10	29'-2"	PCE1001	Str												
56	2	10	17'-6"	PCE1002	Str												
57	2	10	12'-0"	PCE1003	Str												
58																	
59	4	6	17'-4"	PCS625	T1	0'-5½"	2'-6½"	5'-8"	2'-6½"	5'-8"		0'-5½"					
60	1	1	17'-5"	PCS626	1	1	1	5'-8½"	1	5'-8½"		1					
61			17'-8"	PCS627				5'-10"		5'-10"							
62			17'-11"	PCS628				5'-11½"		5'-11½"							
63			18'-4"	PCS629				6'-2"		6'-2"							
64			18'-10"	PCS630				6'-5"		6'-5"							
65			19'-6"	PCS631				6'-9"		6'-9"							
66			20'-4"	PCS632				7'-2"		7'-2"							
67			21'-2"	PCS633				7'-7"		7'-7"							
68			22'-2"	PCS634				8'-1"		8'-1"							
69	1	1	23'-4"	PCS635	1	1	1	8'-8"	1	8'-8"		1					
70	4	6	24'-10"	PCS636	T1	0'-5½"	2'-6½"	9'-5"	2'-6½"	9'-5"		0'-5½"					
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Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
82																	
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84																	
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86																	
87																	
88																	
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Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163																	
164																	
165																	
166																	
167																	
168																	
169																	
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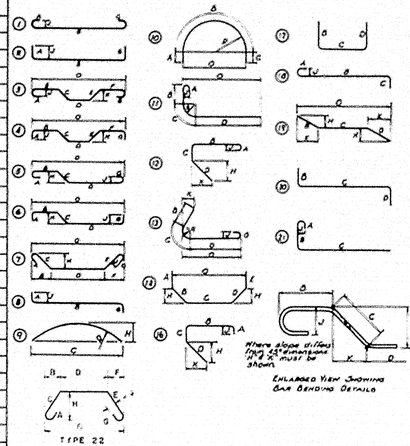
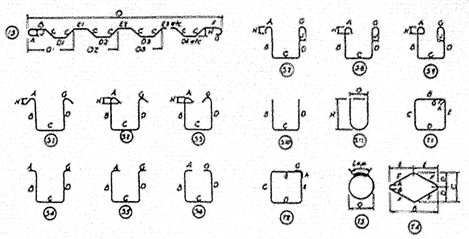
189																	
190																	

B.P.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(23)		

WATERVILLE INTERSTATE

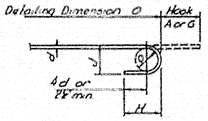
TYPICAL BAR BENDS





NOTES

1. All dimensions are out to out of bar.
2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
3. Where 'J' is not shown, 'J' is to be kept equal to or less than 'H'. Where J' can exceed 'H', it should be shown.
4. 'H' dimension on stirrups to be shown where necessary to restrict hooks.
5. Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer working should have limits indicated.
6. Figures in circles show types.
7. No allowance for bend curvature is to be made except for standard hook if radii in excess of same.



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
¼" ϕ	#2
⅜" ϕ	#3
½" ϕ	#4
⅝" ϕ	#5
¾" ϕ	#6
⅞" ϕ	#7
1" ϕ	#8
1" □	#9
1⅛" □	#10
1½" □	#11

6 Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation AASHO M31-48 or its latest revision. All bars shall be deformed to conform with A.S.T.M. Specifications A305-49.

THE CLARKESON ENGINEERING CO., INC.

DESIGN C.J.M.	CHECK H.P.	BRIDGE NO.
DRAWN F.E.T.	APPROVED WAH - C.J.M.	SURVEY PLOT

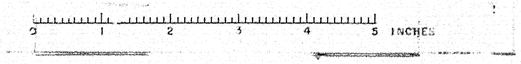
STATE HIGHWAY COMMISSION

INTERSTATE #95
OVER
MESSALONSKEE STREAM & QUARRY ROAD (RELOC.)
IN THE CITY OF
WATERVILLE
KENNEBEC COUNTY

CAP STEEL

SHEET 13 OF 13 SHEETS AUGUSTA, MAINE

78-210



BILL OF MATERIAL — DWG. NO. 960-510A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	WT. DED.	REMARKS
Shim A	5		PL 7 x 1/16	0	7			
do B	5		PL 7 x 1/8	0	7			
do C	20		PL 7 x 1/16	0	7			
S66	1		36 WF 230	84	11 15/16		14 #	A-373
S67	1		Do	84	11 15/16		14 #	A-373
S68	1		Do	84	11 15/16		14 #	A-373
S69	1		Do	84	11 15/16		14 #	A-373
S70	1		Do	84	11 15/16		14 #	A-373
Field	96		5/8 ϕ Bolts	0	2			
	2	CP1	PL 15 x 1 1/16	54	0		90 #	A-373
	3	CP2	PL 15 x 1 1/4	55	6		166 #	A-373
	8	P1	PL 6 x 1/2	7	6			
	8	P2	Do	7	6			
	8	P3	Do	7	6			
	8	P4	Do	7	6			
	4	P5	Do	1	6			
	4	P6	Do	1	6			
	4	P7	Do	1	6			
	4	P8	Do	1	6			
	2		12 C 30	6	11 1/2		12 #	
	2		Do	6	11 1/2		12 #	
	2		Do	6	11 5/16		12 #	
	2		Do	6	11 5/16		12 #	
	8		18 E 42.7	6	11 1/16			
	8		Do	6	11 5/16			
	1		PL 8 x 1	8	2 11/16			
	1		Do	8	2 11/16			
	2		Do	7	6			
	1		PL 6 x 1	1	4		9 #	
	1		Do	1	4		9 #	
	1	G1	L 6 x 6 x 3/4	8	2 11/16			
	1	G2	Do	8	2 11/16			
	2	G3	Do	7	6			
	18	P9	PL 2 1/2 x 3/8	0	7			
	1	P10	PL 6 x 1	0	4 15/16		16 #	
	1	P11	Do	0	4 15/16		16 #	
	6	B1	FB 2 1/2 x 1/2	1	2			
		Shop	3/16 fillet weld	843			39 # / ft.	

Detailed on 9-60-510

Detailed on 9-60-511

Detailed on 9-60-512

Detailed on 9-60-513

No camber in beams req'd. any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - 5/8" ϕ Temporary Erection bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted

STEINGER DETAILS SPAN 20

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER CIANCHETTE BROTHERS.
DESIGNER THE CLARKESON ENGR Co.

ORDER NO. VERBAL | DWG. NO. 9-60-510A

DRAWN	4-28-59	EGH
REVISION		
REVISION		
REVISION		

APPROVED 5-22-59

77-136D

BILL OF MATERIAL — DWG. NO. 960-511A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	WT. DED.	REMARKS
Shim A	5		PL 7 x 1/16	0	7			
do B	5		PL 7 x 1/8	0	7			
do C	10		PL 7 x 1/16	0	7			
S76	1		36 WF 230	84	11 15/16		21 #	A-373
S77	1		Do	84	11 15/16		21 #	A-373
S78	1		Do	84	11 15/16		21 #	A-373
S79	1		Do	84	11 15/16		21 #	A-373
S80	1		Do	84	11 15/16		21 #	A-373
Field	96		5/8 ϕ Bolts	0	2			
	2	CP1	PL 15 x 1 1/16	54	0		90 #	A-373
	3	CP2	PL 15 x 1 1/4	55	6		166 #	A-373
	8	P1	PL 6 x 1/2	7	6			
	8	P2	Do	7	6			
	8	P3	Do	7	6			
	8	P4	Do	7	6			
	4	P5	Do	1	6			
	4	P6	Do	1	6			
	4	P7	Do	1	6			
	4	P8	Do	1	6			
D1	2		12 C 30	6	11 1/2		12 #	
D2	2		Do	6	11 1/2		12 #	
D3	2		Do	6	11 5/16		12 #	
D4	2		Do	6	11 5/16		12 #	
D5	8		18 E 42.7	6	11 1/16			
D6	8		Do	6	11 5/16			
BT1	1		PL 8 x 1	8	2 11/16			
BT2	1		Do	8	2 11/16			
BT3	2		Do	7	6			
SJT1	1		PL 6 x 1	1	4		5 #	
SJT2	1		Do	1	4		5 #	
	1	G1	L 6 x 6 x 3/4	8	2 11/16			
	1	G2	Do	8	2 11/16			
	2	G3	Do	7	6			
	18	P9	PL 2 1/2 x 3/8	0	7			
	1	P10	PL 6 x 1	0	4 15/16		5 #	
	1	P11	Do	0	4 15/16		5 #	
	6	B1	FB 2 1/2 x 1/2	1	2			
		Shop	3/16 fillet weld	843			239 # / ft.	

Detailed on 9-60-511

Detailed on 9-60-512

Detailed on 9-60-513

No camber in beams req'd. any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - 5/8" ϕ Temporary Erection bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted

STEINGER DETAILS SPAN 22

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER CIANCHETTE BROTHERS.
DESIGNER THE CLARKESON ENGR Co.

ORDER NO. VERBAL | DWG. NO. 9-60-511A

DRAWN	4-28-59	EGH
REVISION		
REVISION		
REVISION		

APPROVED 5-22-59

77-136C

BILL OF MATERIAL — DWG. NO. 960-510B

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	WT. DED.	REMARKS
Shim A	10		PL 7 x 1/16	0	7			
do B	10		PL 7 x 1/8	0	7			
do C	20		PL 7 x 1/16	0	7			
S71	1		36 WF 230	84	11 15/16		18 #	A-373
S72	1		Do	84	11 15/16		18 #	A-373
S73	1		Do	84	11 15/16		18 #	A-373
S74	1		Do	84	11 15/16		18 #	A-373
S75	1		Do	84	11 15/16		18 #	A-373
Field	96		5/8 ϕ Bolts	0	2			
	2	CP1	PL 15 x 1 1/16	54	0		90 #	A-373
	3	CP2	PL 15 x 1 1/4	55	6		166 #	A-373
	8	P1	PL 6 x 1/2	7	6			
	8	P2	Do	7	6			
	8	P3	Do	7	6			
	8	P4	Do	7	6			
	4	P5	Do	1	6			
	4	P6	Do	1	6			
	4	P7	Do	1	6			
	4	P8	Do	1	6			
D1	2		12 C 30	6	11 1/2		12 #	
D2	2		Do	6	11 1/2		12 #	
D3	2		Do	6	11 5/16		12 #	
D4	2		Do	6	11 5/16		12 #	
D5	8		18 E 42.7	6	11 1/16			
D6	8		Do	6	11 5/16			
BT1	2		PL 8 x 1	8	2 11/16			
BT2	2		Do	5	3 5/16			
BT3	4		Do	7	6			
SJT1	2		PL 6 x 1	1	4		1 #	
SJT2	2		Do	1	4		9 #	
	2	G1	L 6 x 6 x 3/4	8	2 11/16			
	2	G2	Do	5	3 5/16			
	4	G3	Do	7	6			
	36	P9	PL 2 1/2 x 3/8	0	7			
	2	P10	PL 6 x 1	0	4 15/16		10 #	
	2	P11	Do	0	4 15/16		16 #	
	12	B1	FB 2 1/2 x 1/2	1	2			
		Shop	3/16 fillet weld	909			239 # / ft.	

Detailed on 9-60-511

Detailed on 9-60-512

Detailed on 9-60-513

No camber in beams req'd. any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - 5/8" ϕ Temporary Erection bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted

STEINGER DETAILS SPAN 21

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER CIANCHETTE BROTHERS.
DESIGNER THE CLARKESON ENGR Co.

ORDER NO. VERBAL | DWG. NO. 9-60-510B

DRAWN	4-28-59	EGH
REVISION		
REVISION		
REVISION		

APPROVED 5-22-59

77-136B

BILL OF MATERIAL — DWG. NO. 960-514A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	WT. DED.	REMARKS.
Shim A	10		PL 7 x 1/16	0	7			
do B	10		PL 7 x 1/8	0	7			
do C	20		PL 7 x 1/16	0	7			
S1	1		36 WF 230	55	1 1/16		5 #	A-373
S2	1		Do	55	1 1/16		5 #	A-373
S3	1		Do	55	1 1/16		5 #	A-373
S4	1		Do	55	1 1/16		5 #	A-373
S5	1		Do	55	1 1/16		5 #	A-373
Field	96		5/8 ϕ Bolts	0	2			
	2	CP1	PL 15 x 1 1/16	54	0		90 #	A-373
	3	CP2	PL 15 x 1 1/4	55	6		166 #	A-373
	8	P1	PL 6 x 1/2	2	6			
	8	P2	Do	2	6			
	8	P3	Do	2	6			
	8	P4	Do	2	6			
	4	P5	Do	1	6			
	4	P6	Do	1	6			
	4	P7	Do	1	6			
	4	P8	Do	1	6			
D1	2		12 C 30	6	11 1/2		12 #	
D2	2		Do	6	11 1/2		12 #	
D3	2		Do	6	11 5/16		12 #	
D4	2		Do	6	11 5/16		12 #	
D5	8		18 E 42.7	6	11 1/16			
D6	8		Do	6	11 5/16			
BT1	2		PL 8 x 1	8	2 11/16			
BT2	2		Do	5	3 5/16			
BT3	4		Do	7	6			
SJT1	2		PL 6 x 1	1	4		1 #	
SJT2	2		Do	1	4		9 #	
	2	G1	L 6 x 6 x 3/4	8	2 11/16			
	2	G2	Do	5	3 5/16			
	4	G3	Do	7	6			
	36	P9	PL 2 1/2 x 3/8	0	7			
	2	P10	PL 6 x 1	0	4 15/16		10 #	
	2	P11	Do	0	4 15/16		16 #	
	12	B1	FB 2 1/2 x 1/2	1	2			
		Shop	3/16 fillet weld	909			239 # / ft.	

Detailed on 9-60-511

Detailed on 9-60-512

Detailed on 9-60-513

No camber in beams req'd. any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - 5/8" ϕ Temporary Erection bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted

STEINGER DETAILS SPAN 23

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER CIANCHETTE BROTHERS.
DESIGNER THE CLARKESON ENGR Co.

ORDER NO. VERBAL | DWG. NO. 9-60-514A

DRAWN	4-28-59	EGH
REVISION		
REVISION		
REVISION		

77-136A

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
[illegible]	[illegible]		[illegible] 7 x 1/4	[illegible] 7			
[illegible]	[illegible]		[illegible] 7 x 1/8	[illegible] 7			
[illegible]	[illegible]		[illegible] 7 x 1/16	[illegible] 7			
S.51	1		36 WF 230	85 0 1/8		21 #	A-373
S.52	1		Do	85 0 1/8		21 #	A-373
S.53	1		Do	85 0 1/8		21 #	A-373
S.54	1		Do	85 0 1/8		21 #	A-373
S.55	1		Do	85 0 1/8		21 #	A-373
Field	96		5/8" ø Bolts	0 2			
	2	C.P.1	PL 15 x 1 1/16	54 0		90 #	A-373
	3	C.P.2	PL 15 x 1 1/4	55 6		166 #	A-373
	5	P.1	PL 6 x 1/2	2 6			
	8	P.2	Do	2 6			
	8	P.3	Do	2 6			
	8	P.4	Do	2 6			
	4	P.5	Do	1 6			
	4	P.6	Do	1 6			
	4	P.7	Do	1 6			
	4	P.8	Do	1 6			
[illegible]	2		[illegible] 12 C 30	6 11 1/2		12 #	
[illegible]	2		[illegible]	6 11 1/2		12 #	
[illegible]	2		[illegible]	6 11 3/16		12 #	
[illegible]	2		[illegible]	6 11 3/16		12 #	
[illegible]	8		[illegible]	6 11 3/16			
[illegible]	8		[illegible]	6 11 3/16			
[illegible]	2		[illegible]	8 2 1/16			
[illegible]	2		[illegible]	8 2 1/16			
[illegible]	4		[illegible]	7 6			
[illegible]	2		[illegible]	1 4		9 #	
[illegible]	2		[illegible]	1 4		9 #	
[illegible]	[illegible]	[illegible]	[illegible] 3/8	8 2 1/16			
[illegible]	[illegible]	[illegible]	[illegible]	8 2 1/16			
[illegible]	[illegible]	[illegible]	[illegible]	7 6			
[illegible]	[illegible]	[illegible]	[illegible] 1/2	0 7			
[illegible]	[illegible]	[illegible]	PL 6 x 1	0 9 1/16		10 #	
[illegible]	[illegible]	[illegible]	Do	0 9 1/16		10 #	
[illegible]	[illegible]	[illegible]	FB 2 1/2 x [illegible]	[illegible] 2			
[illegible]	[illegible]	[illegible]	5/16 Fillet	[illegible]			

Detailed 9-60-58

Detailed 9-60-53

Detailed on 9-60-513

No camber in beams req'd any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - 5/8" ø Temporary Erection bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted.

STEINGER DETAILS SPAN 10

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE

CUSTOMER Cianchette Brothers
DESIGNER The Clarkeson Engr Co.

ORDER NO. [illegible] DWG. NO. 9-60-57B

APPROVED 5-22-59

DRAWN		
REVISION		
REVISION		
REVISION		

77-136 H

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
Shim A	10		PL 7 x 1/4	0 7			
do B	10		PL 7 x 1/8	0 7			
do C	20		PL 7 x 1/16	0 7			
S.51	1		36 WF 230	84 10 5/16		9 #	A-373
S.52	1		Do	84 10 5/16		9 #	A-373
S.53	1		Do	84 10 5/16		9 #	A-373
S.54	1		Do	84 10 5/16		9 #	A-373
S.55	1		Do	84 10 5/16		9 #	A-373
Field	96		5/8" ø Bolts	0 2			
	2	C.P.1	PL 15 x 1 1/16	54 0		90 #	A-373
	3	C.P.2	PL 15 x 1 1/4	55 6		166 #	A-373
	5	P.1	PL 6 x 1/2	2 6			
	8	P.2	Do	2 6			
	8	P.3	Do	2 6			
	8	P.4	Do	2 6			
	4	P.5	Do	1 6			
	4	P.6	Do	1 6			
	4	P.7	Do	1 6			
	4	P.8	Do	1 6			
D.1	2		12 C 30	6 11 1/2		12 #	
D.2	2		Do	6 11 1/2		12 #	
D.3	2		Do	6 11 3/16		12 #	
D.4	2		Do	6 11 3/16		12 #	
D.5	8		15 C 45.7	6 11 3/16			
D.6	8		Do	6 11 3/16			
F.U.1	2		PL 8 x 1	8 2 1/16			
F.U.2	2		Do	8 2 1/16			
F.U.3	4		Do	7 6			
S.J.1	2		PL 6 x 1	1 4		9 #	
S.J.2	2		Do	1 4		9 #	
	2	a1	L 6 x 6 x 6 3/4	8 2 1/16			
	2	a2	Do	8 2 1/16			
	4	a3	Do	7 6			
	36	p.a	PL 2 1/2 x 3/8	0 7			
	2	p.b	PL 6 x 1	0 9 1/16		10 #	
	2	p.c	Do	0 9 1/16		10 #	
	12	b.1	FB 2 1/2 x 1/2	1 2			
	Shop		3/8 Fillet weld	929		239 #/ft	

Detailed 9-60-58

Detailed 9-60-53

Detailed on 9-60-513

No camber in beams req'd any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - 5/8" ø Temporary Erection bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted.

STEINGER DETAILS SPAN 17

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER Cianchette Brothers.
DESIGNER The Clarkeson Engr. Co.

ORDER NO. Verbal DWG. NO. 9-60-58B

APPROVED 5-22-59

DRAWN	4-28-59	F.G.H.
REVISION		
REVISION		
REVISION		

77-136 G

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
Shim A	5		PL 7 x 1/4	0 7			
do B	5		PL 7 x 1/8	0 7			
do C	10		PL 7 x 1/16	0 7			
S.36	1		36 WF 230	85 0 1/8		25 #	A-373
S.37	1		Do	85 0 1/8		25 #	A-373
S.38	1		Do	85 0 1/8		25 #	A-373
S.39	1		Do	85 0 1/8		25 #	A-373
S.40	1		Do	85 0 1/8		25 #	A-373
Field	96		5/8" ø Bolts	0 2			
	2	C.P.1	PL 15 x 1 1/16	54 0		90 #	A-373
	3	C.P.2	PL 15 x 1 1/4	55 6		166 #	A-373
	8	P.1	PL 6 x 1/2	2 6			
	8	P.2	Do	2 6			
	8	P.3	Do	2 6			
	8	P.4	Do	2 6			
	4	P.5	Do	1 6			
	4	P.6	Do	1 6			
	4	P.7	Do	1 6			
	4	P.8	Do	1 6			
D.1	2		12 C 30	6 11 1/2		12 #	
D.2	2		Do	6 11 1/2		12 #	
D.3	2		Do	6 11 3/16		12 #	
D.4	2		Do	6 11 3/16		12 #	
D.5	8		12 C 45.7	6 11 3/16			
D.6	8		Do	6 11 3/16			
F.U.1	1		PL 8 x 1	8 2 1/16			
F.U.2	1		Do	8 2 1/16			
F.U.3	2		Do	7 6			
S.J.1	1		PL 6 x 1	1 4		5 #	
S.J.2	1		Do	1 4		5 #	
	1	a1	L 6 x 6 x 6 3/4	8 2 1/16			
	1	a2	Do	8 2 1/16			
	2	a3	Do	7 6			
	18	p.a	PL 2 1/2 x 3/8	0 7			
	1	p.b	PL 6 x 1	0 9 1/16		5 #	
	1	p.c	Do	0 9 1/16		5 #	
	6	b.1	FB 2 1/2 x 1/2	1 2			
	Shop		3/8 Fillet weld	843		239 #/ft	

Detailed 9-60-58

Detailed 9-60-53

Detailed on 9-60-513

No camber in beams req'd any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - 5/8" ø Temporary Erection bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted.

STEINGER DETAILS SPAN 11

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER Cianchette Brothers.
DESIGNER The Clarkeson Engr. Co.

ORDER NO. Verbal DWG. NO. 9-60-58A

APPROVED 5-22-59

DRAWN	4-28-59	F.G.H.
REVISION		
REVISION		
REVISION		

77-136 F

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]		[illegible]	[illegible]			
S.36	1		36 WF 230	[illegible]		[illegible] #	A-373
S.37	1		Do	[illegible]		[illegible] #	A-373
S.38	1		Do	[illegible]		[illegible] #	A-373
S.39	1		Do	[illegible]		[illegible] #	A-373
S.40	1		Do	[illegible]		11 #	A-373
Field	96		5/8" ø Bolts	[illegible]			
	2	C.P.1	PL 15 x 1 1/16	54 0		90 #	A-373
	3	C.P.2	PL 15 x 1 1/4	55 6		166 #	A-373
	5	P.1	PL 6 x 1/2	2 6			
	8	P.2	Do	2 6			
	8	P.3	Do	2 6			
	5	P.4	Do	2 6			
	4	P.5	Do	1 6			
	4	P.6	Do	1 6			
	4	P.7	Do	1 6			
	4	P.8	Do	1 6			
[illegible]	2		[illegible] 12 C 30	6 11 1/2		12 #	
[illegible]	2		[illegible]	6 11 1/2		12 #	
[illegible]	2		[illegible]	6 11 3/16		12 #	
[illegible]	2		[illegible]	6 11 3/16		12 #	
[illegible]	2		[illegible] 15 C 45.7	6 11 3/16			
[illegible]	[illegible]		[illegible]	6 11 3/16			
[illegible]	[illegible]		[illegible]	[illegible]

BILL OF MATERIAL — DWG. NO. 960-55B

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
Shim A	16		PL 7 x 1/4	0 7			
do B	16		PL 7 x 1/8	0 7			
do C	20		PL 7 x 1/16	0 7			
S16	1		36 WF 230	84 11½		14#	A 373
S17	1		Do	84 11½		14#	A 373
S18	1		Do	84 11½		14#	A 373
S19	1		Do	84 11½		14#	A 373
S20	1		Do	84 11½		14#	A 373
Field	96		3/8" ø Bolts	0 2			
	2	C1	PL 15 x 1 1/16	54 0		90#	A-373
	3	C2	PL 15 x 1 1/4	55 6		166#	A-373
	5	P1	PL 6 x 1/2	2 6			
	8	P2	Do	2 6			
	8	P3	Do	2 6			
	8	P4	Do	2 6			
	4	P5	Do	1 6			
	4	P6	Do	1 6			
	4	P7	Do	1 6			
	4	P8	Do	1 6			
	2		12 C 30	6 11½		12#	
	2		Do	6 11½		12#	
	2		L	6 11 5/16		12#	
	2		L	6 11 5/16		12#	
	2		L 4" x 3" x 7/16	6 11 5/16		12#	
	8		Do	6 11 5/16			
	2		PL 8 x 1	8 2 5/16			
	2		Do	8 2 5/16			
	4		Do	7 6			
	2		PL 6 x 1	1 4		9#	
	2		Do	1 4		9#	
	2	A1	L 6 x 6 x 3/4	8 2 5/16			
	2	A2	Do	8 2 5/16			
	4	A3	Do	7 6			
	36	P9	PL 22 1/2 x 3/16	0 7			
	2	P6	PL 6 x 1	0 9 9/16		10#	
	2	P5	Do	0 9 9/16		10#	
	12	B1	FB 2 1/2 x 1/2	1 2			
		Shop	3/8 Fillet weld	929		.239 #/ft	

No camber in beams req'd any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded & 7/8" ø Temporary Erection Bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted

STEINGER DETAILS SPAN 7

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER CIANCHETTE BROTHERS
DESIGNER THE CLARKESON ENGR CO

ORDER NO. VERBAL | DWG. NO. 9-60-56B

DRAWN | REVISION | REVISION | REVISION

APPROVED 5-22-59

77-136 L

BILL OF MATERIAL — DWG. NO. 960-56A

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
Shim A	10		PL 7 x 1/4	0 7			
do B	16		PL 7 x 1/8	0 7			
do C	20		PL 7 x 1/16	0 7			
S21	1		36 WF 230	84 11½		14#	A-373
S22	1		Do	84 11½		14#	A-373
S23	1		Do	84 11½		14#	A-373
S24	1		Do	84 11½		14#	A-373
S25	1		Do	84 11½		14#	A-373
Field	96		5/8" ø Bolts	0 2			
	2	C1	PL 15 x 1 1/16	54 0		90#	A-373
	3	C2	PL 15 x 1 1/4	55 6		166#	A-373
	8	P1	PL 6 x 1/2	2 6			
	8	P2	Do	2 6			
	8	P3	Do	2 6			
	8	P4	Do	2 6			
	4	P5	Do	1 6			
	4	P6	Do	1 6			
	4	P7	Do	1 6			
	4	P8	Do	1 6			
	2		12 C 30	6 11½		12#	
	2		Do	6 11½		12#	
	2		L	6 11 5/16		12#	
	2		L	6 11 5/16		12#	
	2		L 4" x 3" x 7/16	6 11 5/16			
	8		Do	6 11 5/16			
	2		PL 8 x 1	8 2 5/16			
	2		Do	8 2 5/16			
	4		Do	7 6		9#	
	2		PL 6 x 1	1 4		9#	
	2	A1	L 6 x 6 x 3/4	8 2 5/16			
	2	A2	Do	8 2 5/16			
	4	A3	Do	7 6			
	36	P9	PL 22 1/2 x 3/16	0 7			
	2	P6	PL 6 x 1	0 9 9/16		10#	
	2	P5	Do	0 9 9/16		10#	
	12	B1	FB 2 1/2 x 1/2	1 2			
		Shop	3/8 Fillet weld	929		.239 #/ft	

No camber in beams req'd any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded & 7/8" ø Temporary Erection Bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted

STEINGER DETAILS SPAN 8

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER CIANCHETTE BROTHERS
DESIGNER THE CLARKESON ENGR CO

ORDER NO. VERBAL | DWG. NO. 9-60-56A

DRAWN | REVISION | REVISION | REVISION

APPROVED 5-22-59

77-136 K

BILL OF MATERIAL — DWG. NO. 960-56B

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
Shim A	16		PL 7 x 1/4	0 7			
do B	10		PL 7 x 1/8	0 7			
do C	20		PL 7 x 1/16	0 7			
S61	1		36 WF 230	84 11½		14#	A 373
S62	1		Do	84 11½		14#	A 373
S63	1		Do	84 11½		14#	A 373
S64	1		Do	84 11½		14#	A 373
S65	1		Do	84 11½		14#	A 373
Field	96		3/8" ø Bolts	0 2			
	2	C1	PL 15 x 1 1/16	54 0		90#	A-373
	3	C2	PL 15 x 1 1/4	55 6		166#	A-373
	5	P1	PL 6 x 1/2	2 6			
	8	P2	Do	2 6			
	8	P3	Do	2 6			
	8	P4	Do	2 6			
	4	P5	Do	1 6			
	4	P6	Do	1 6			
	4	P7	Do	1 6			
	4	P8	Do	1 6			
	2		12 C 30	6 11½		12#	
	2		Do	6 11½		12#	
	2		L	6 11 5/16		12#	
	2		L	6 11 5/16		12#	
	2		L 4" x 3" x 7/16	6 11 5/16			
	8		Do	6 11 5/16			
	2		PL 8 x 1	8 2 5/16			
	2		Do	8 2 5/16			
	4		Do	7 6			
	2		PL 6 x 1	1 4		9#	
	2		Do	1 4		9#	
	2	A1	L 6 x 6 x 3/4	8 2 5/16			
	2	A2	Do	8 2 5/16			
	4	A3	Do	7 6			
	36	P9	PL 22 1/2 x 3/16	0 7			
	2	P6	PL 6 x 1	0 9 9/16		10#	
	2	P5	Do	0 9 9/16		10#	
	12	B1	FB 2 1/2 x 1/2	1 2			
		Shop	3/8 Fillet weld	929		.239 #/ft	

No camber in beams req'd any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded & 7/8" ø Temporary Erection Bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted

STEINGER DETAILS SPAN 9

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER CIANCHETTE BROTHERS
DESIGNER THE CLARKESON ENGR Co.

ORDER NO. VERBAL | DWG. NO. 9-60-56B

DRAWN | REVISION | REVISION | REVISION

APPROVED 5-22-59

77-136 J

BILL OF MATERIAL — DWG. NO. 960-

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
S26	1		36 WF 230				A-373
S27	1		Do				A-373
S28	1		Do				A-373
S29	1		Do				A-373
S30	1		Do				A-373
Field	96		3/8" ø Bolts				
	2	C1	PL 15 x 1 1/16	54 0		90#	A-373
	3	C2	PL 15 x 1 1/4	55 6		166#	A-373
	5	P1	PL 6 x 1/2	2 6			
	8	P2	Do	2 6			
	8	P3	Do	2 6			
	8	P4	Do	2 6			
	4	P5	Do	1 6			
	4	P6	Do	1 6			
	4	P7	Do	1 6			
	4	P8	Do	1 6			
	2		12 C 30	6 11½		12#	
	2		Do	6 11½		12#	
	2		L	6 11 5/16		12#	
	2		L	6 11 5/16		12#	
	2		L 4" x 3" x 7/16	6 11 5/16			
	8		Do	6 11 5/16			
	2		PL 8 x 1	8 2 5/16			
	2		Do	8 2 5/16			
	4		Do	7 6			
	2		PL 6 x 1	1 4			
	2		Do	1 4			
	2	A1	L 6 x 6 x 3/4	8 2 5/16			
	2	A2	Do	8 2 5/16			
	4	A3	Do	7 6			
	36	P9	PL 22 1/2 x 3/16	0 7			
	2	P6	PL 6 x 1	0 9 9/16			
	2	P5	Do	0 9 9/16			
	12	B1	FB 2 1/2 x 1/2	1 2			
		Shop	3/8 Fillet weld	929		.239 #/ft	

No camber in beams req'd any natural camber to be placed up.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded & 7/8" ø Temporary Erection Bolts.
HOLES:
PAINT: Per State of Maine Specs. and as noted

STEINGER DETAILS SPAN

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 OVER MESSALONSKEE STREAM WATERVILLE, MAINE.

CUSTOMER CIANCHETTE BROTHERS
DESIGNER THE CLARKESON ENGR Co.

ORDER NO. | DWG. NO. 9-60-

DRAWN | REVISION | REVISION | REVISION

77-136 I

0 1 2 3 4 5 INCHES

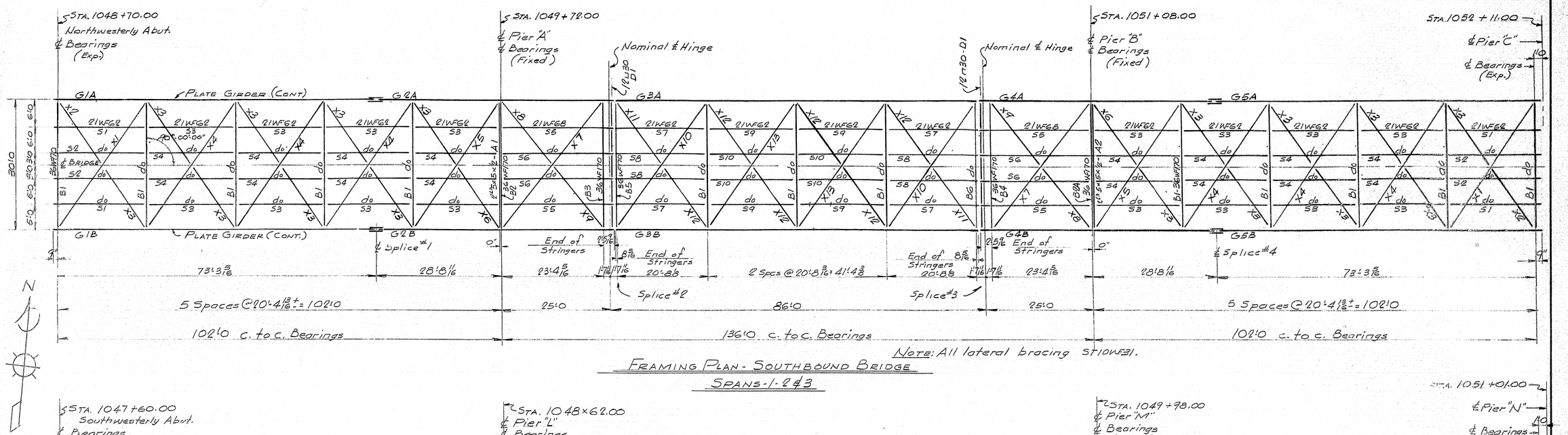
SHIP — BILL OF MATERIAL — DWG. NO. 960-S4B

MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
Shim A	10		PL 7 x 1/4	0 7	-		
do B	10		PL 7 x 1/8	0 7			
do C	20		PL 7 x 1/16	0 7			
S41	1		36 WF 230	84 10 15/16		5#	A-373
S42	1		Do	84 10 15/16		5#	A-373
S43	1		Do	84 10 15/16		5#	A-373
S44	1		Do	84 10 15/16		5#	A-373
S45	1		Do	84 10 15/16		5#	A-373
Field	76		3/4 ø Bolts	0 2			
	2	CP1	PL 15 x 1 1/16	54 0		10#	A-373
	3	CP2	PL 15 x 1 1/4	55 6		166#	A-373
	8	P1	PL 6 x 1/2	2 6			
	8	P2	Do	2 6			
	8	P3	Do	2 6			
	8	P4	Do	2 6			
	4	P5	Do	1 6			
	4	P6	Do	1 6			
	4	P7	Do	1 6			
	4	P8	Do	1 6			
	2		12 C 30	6 11 1/2		12#	
	2		Do	6 11 1/2		12#	
	2		Do	6 11 5/16		12#	
	2		Do	6 11 5/16		12#	
	8		L 5 x 3 1/2 x 7/16	6 11 1/2			
	8		Do	6 11 5/16			
	2		PL 8 x 1	8 2 1/16			
	2		Do	8 2 1/16			
	4		Do	7 6			
	2		PL 6 x 1	1 4		9#	
	2		Do	1 4		9#	
	2		L 6 x 6 x 3/4	8 2 1/16			
	2		Do	8 2 1/16			
	4		Do	7 6			
	36		PL 2 1/2 x 3/8	0 7			
	2		PL 6 x 1	0 9 1/16		10#	
	2		Do	0 9 1/16		10#	
	12		FB 2 1/2 x 1/2	1 2			
			Shop 3/16 fillet weld	929			

Detailed on 960-S4S

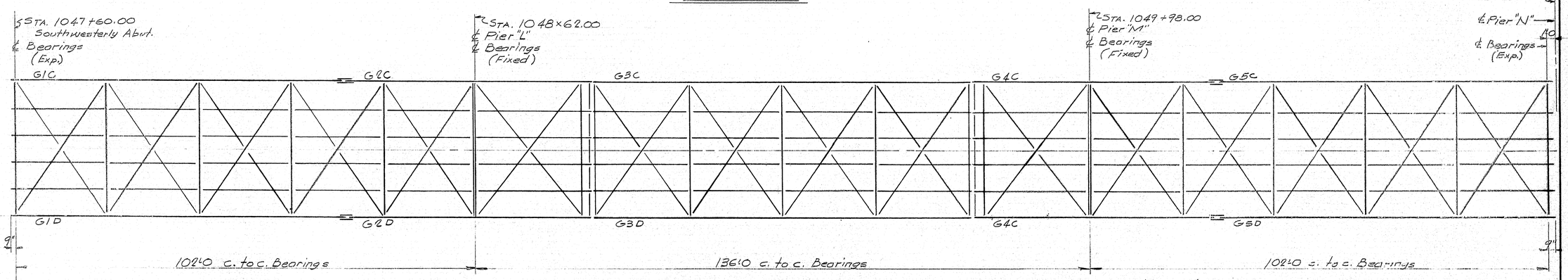
Detailed on 960-S4S

Detailed on 960-S4S



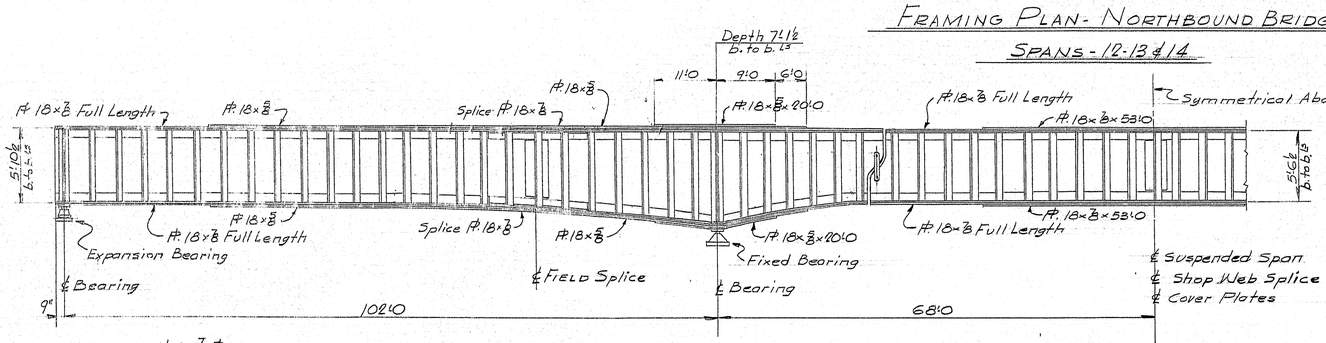
NOTE: All lateral bracing S10WF31.

FRAMING PLAN - SOUTHBOUND BRIDGE
SPANS - 1 - 2 & 3

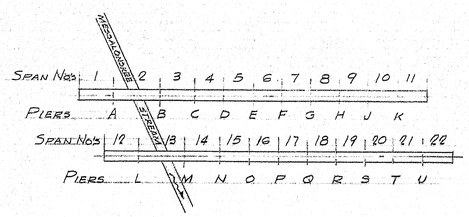


NOTE: For dimensions & size of materials not shown see Framing Plan - Southbound Bridge.

FRAMING PLAN - NORTHBOUND BRIDGE
SPANS - 12-13 & 14



GIRDER ELEVATION



KEY PLAN

APPROXIMATE WEIGHTS TO BE MARKED ON GIRDERS
G1 & G5 - 22 TONS
G2 & G4 - 17 TONS
G3 - 25 TONS

NOTES:
SHOP CONN: ⅞" ℄ RIVETS
FIELD CONN: ⅞" ℄ H.S. BOLTS
PAINT: PER STATE OF MAINE SPECIFICATIONS

DRAWN	4.4.59	J.P.F.
REVISION	9.24.59	J.P.F.
REVISION		
REVISION		

FRAMING PLANS - SPANS 1-2 & 3, 12-13 & 14

Bancroft & Martin Rollings Mills Company
South Portland 7, Maine

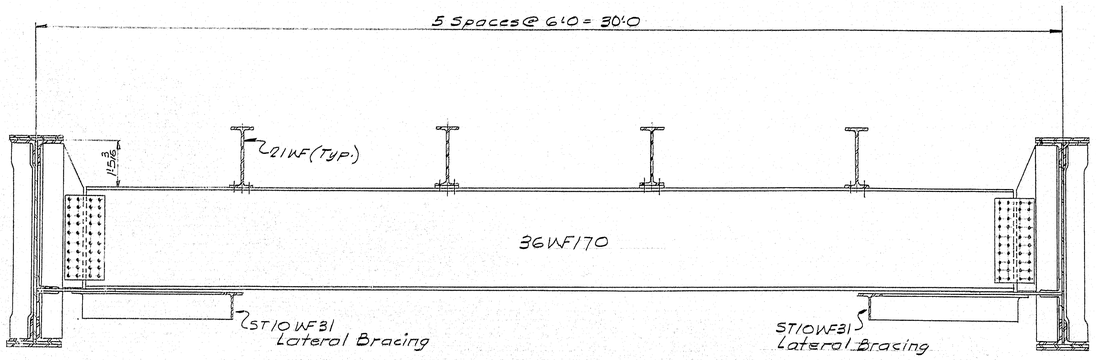
INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.
ORDER NO. VERBAL
DWG. NO. 9-60-E1

APP'D 4-30-59

77-136

PRINTED BY DALLENBACH CO., BOSTON, MASS., PLORDER NO. S-3712



SECTION "1-1"

NOTES:

See Dwg. 9-60-E1

SECTIONS & DETAILS

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

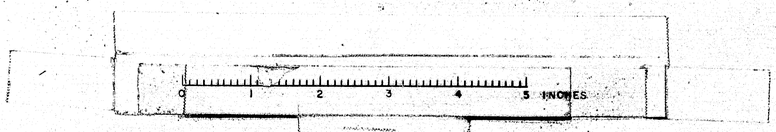
INTERSTATE #95 - OVER
MESSALONSKEE STREAM
WATERVILLE, MAINE

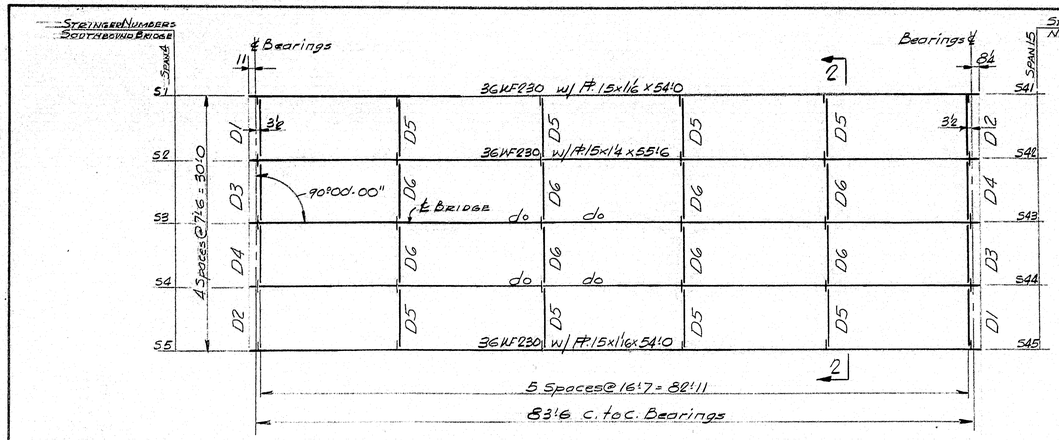
CUSTOMER Cianchette Bros.
DESIGNER The Clarkeson Engr. Co.

DRAWN	4-6-59	J.P.F.
REVISION		
REVISION		
REVISION		

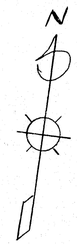
ORDER NO. Verbal | DWG. NO. 9-60-E2

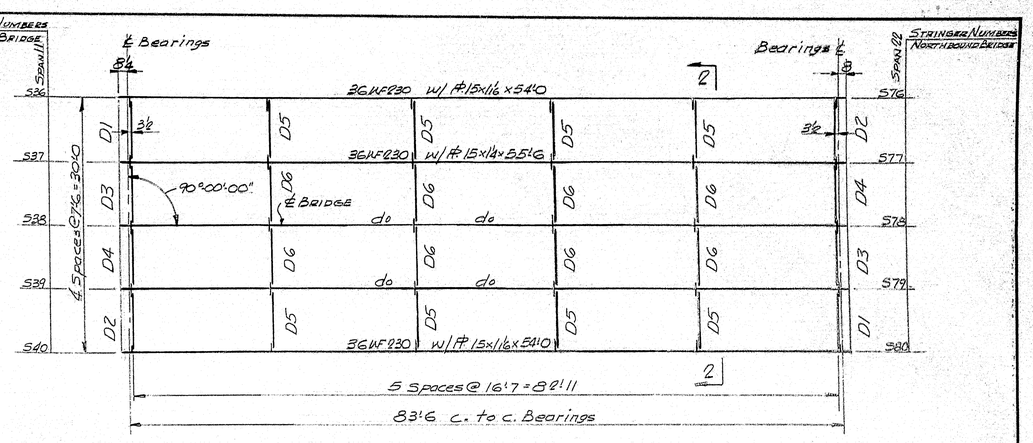
77-137



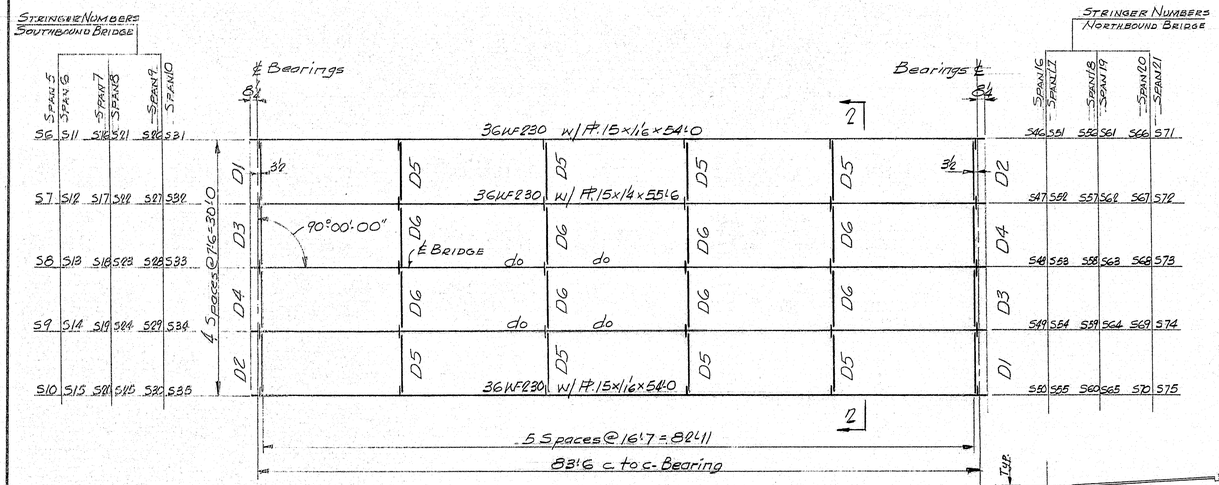


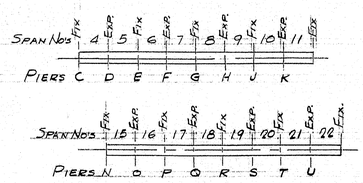
FRAMING PLAN
SPANS 4 & 15

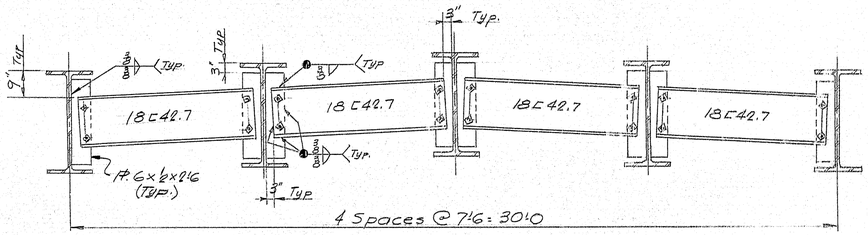




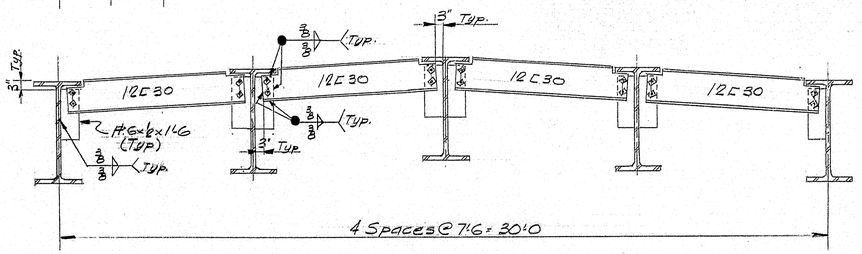
FRAMING PLAN
SPANS 11 & 22



FRAMING PLAN
SPANS 5 TO 10 & 16 TO 21 (INC.)

PLAN - BEARING LOCATIONS



SECTION "Q-Q"
AT INTERMEDIATE DIAPHRAGMS



SECTION
AT END DIAPHRAGMS

NOTE:
No Camber required for stringers, any natural Camber to be placed up.

NOTES:
SHOP CONN: Welded
FIELD CONN: Welded - ⅝" Temp. Erection Bolts.
PAINT: Per State of Maine Specifications.
Beams & Cover Plates are to be A.S.T.M. Designation A 373

APPROVED 6-22-59

FRAMING PLANS - SPANS 4 TO 11 & 15 TO 22

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

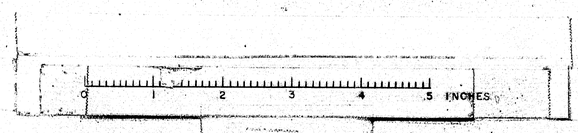
INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

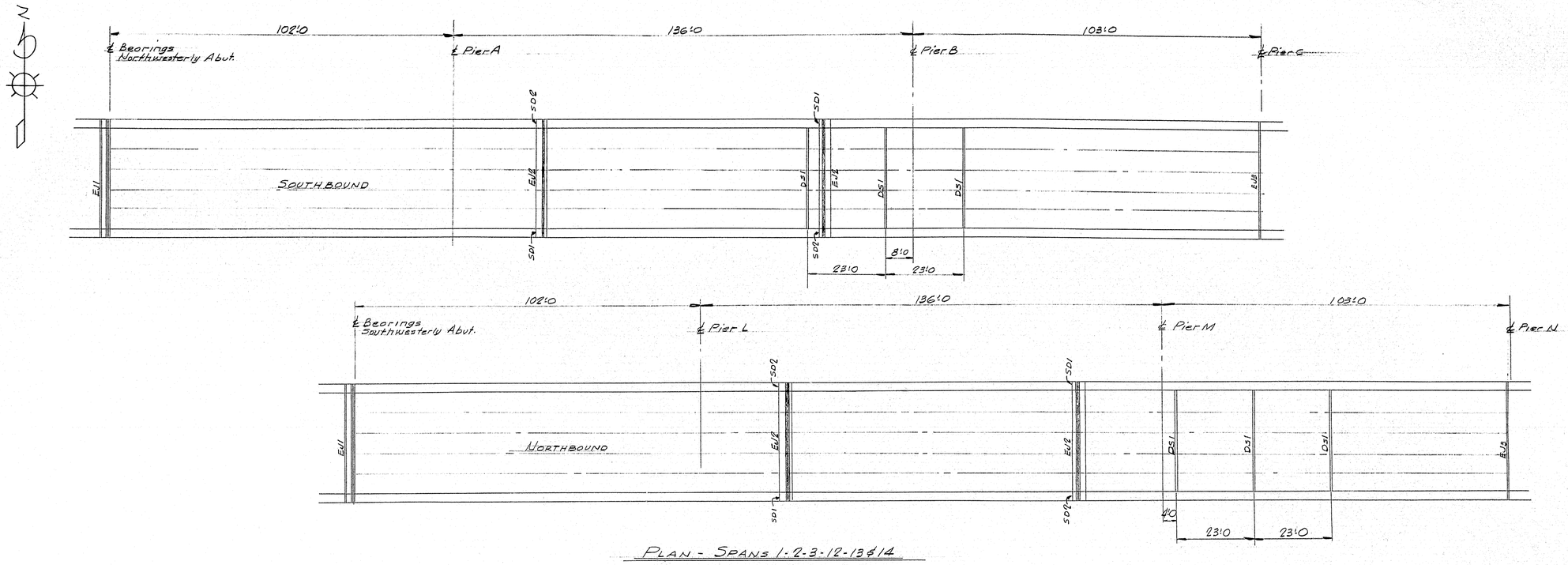
CUSTOMER Cianchette Bros.
DESIGNER The Clarkeson Engr. Co.

DRAWN	4-6-59	JPH
REVISION		
REVISION		
REVISION		

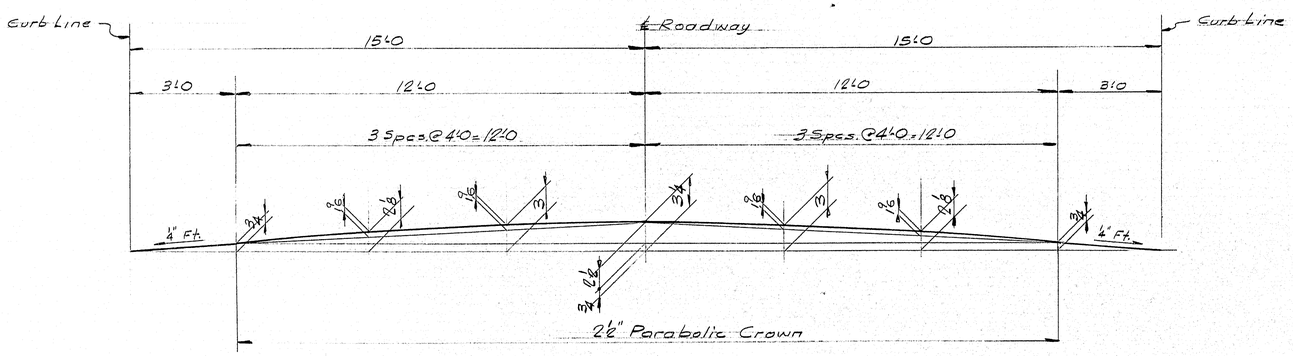
ORDER NO. Verbal
DWG. NO. 9-60-53

77-138





PLAN - SPANS 1-2-3-12-13 & 14



CROWN DETAIL

SHOP CONN: Welded
FIELD CONN: Welded

LOCATION PLAN: EXPANSION DAMS. SPANS 1-2-3-12-13 & 14

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER MESSALONSKEE STREAM WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-E4

APP. 2-1-60

DRAWN	1-22-60	J.P.F.
REVISION		
REVISION		
REVISION		

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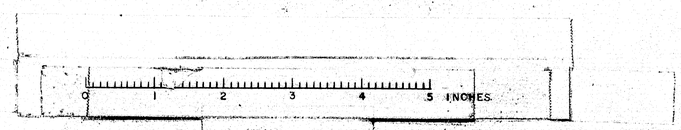
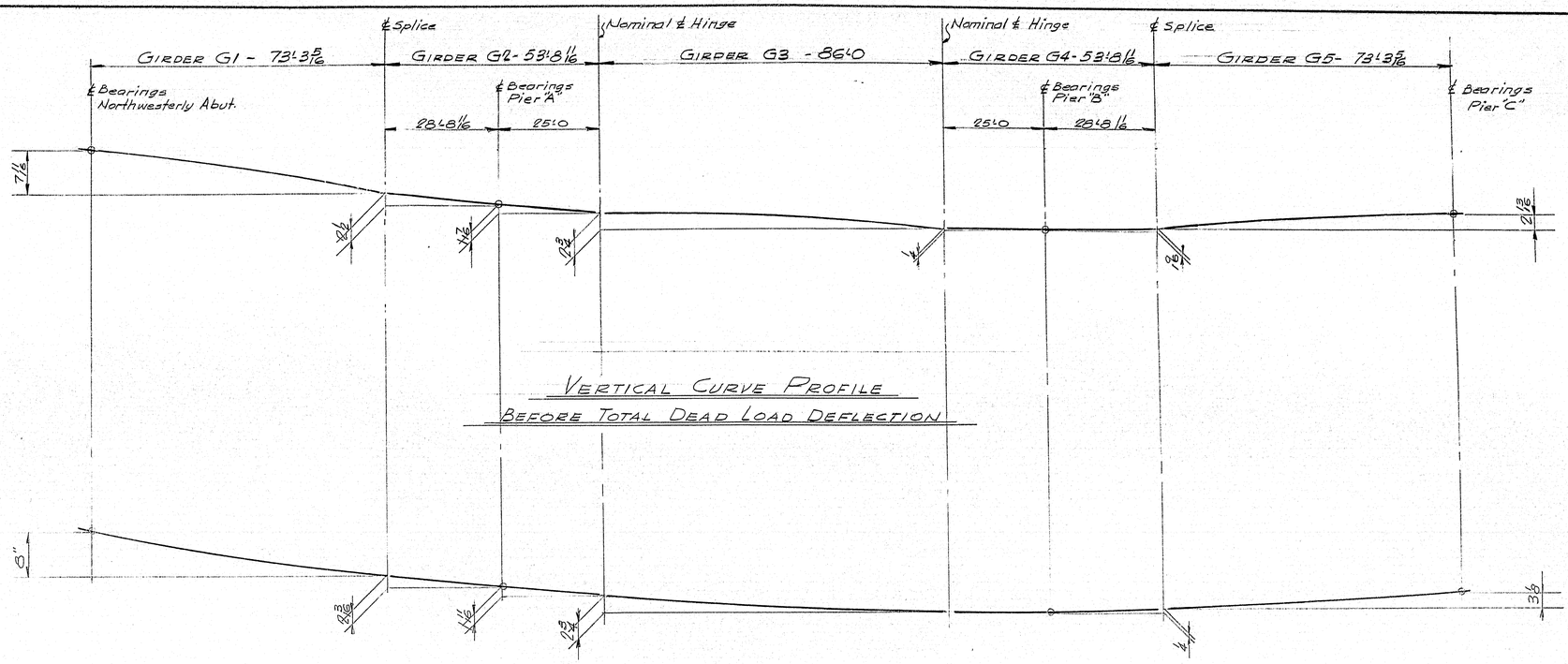
77-139

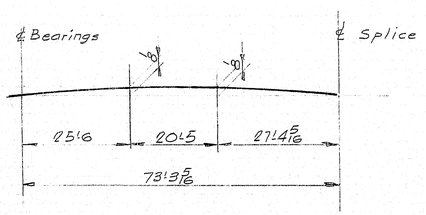
MODERN BLUE PRINT CO.



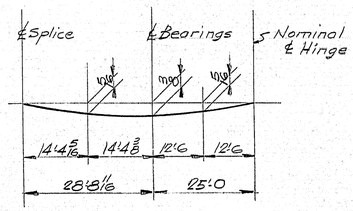


VERTICAL CURVE PROFILE
BEFORE TOTAL DEAD LOAD DEFLECTION

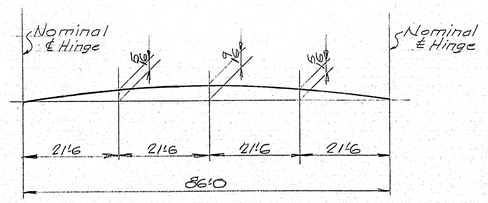
VERTICAL CURVE PROFILE
AFTER TOTAL DEAD LOAD DEFLECTION



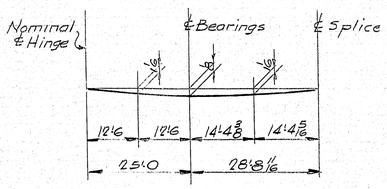
CAMBER - G1 GIRDERS



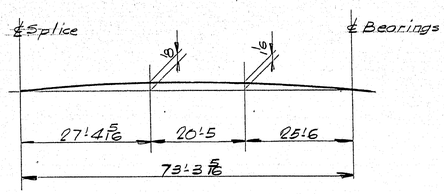
CAMBER - G2 GIRDERS



CAMBER - G3 GIRDERS



CAMBER - G4 GIRDERS



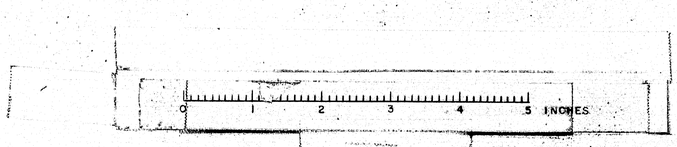
CAMBER - G5 GIRDERS

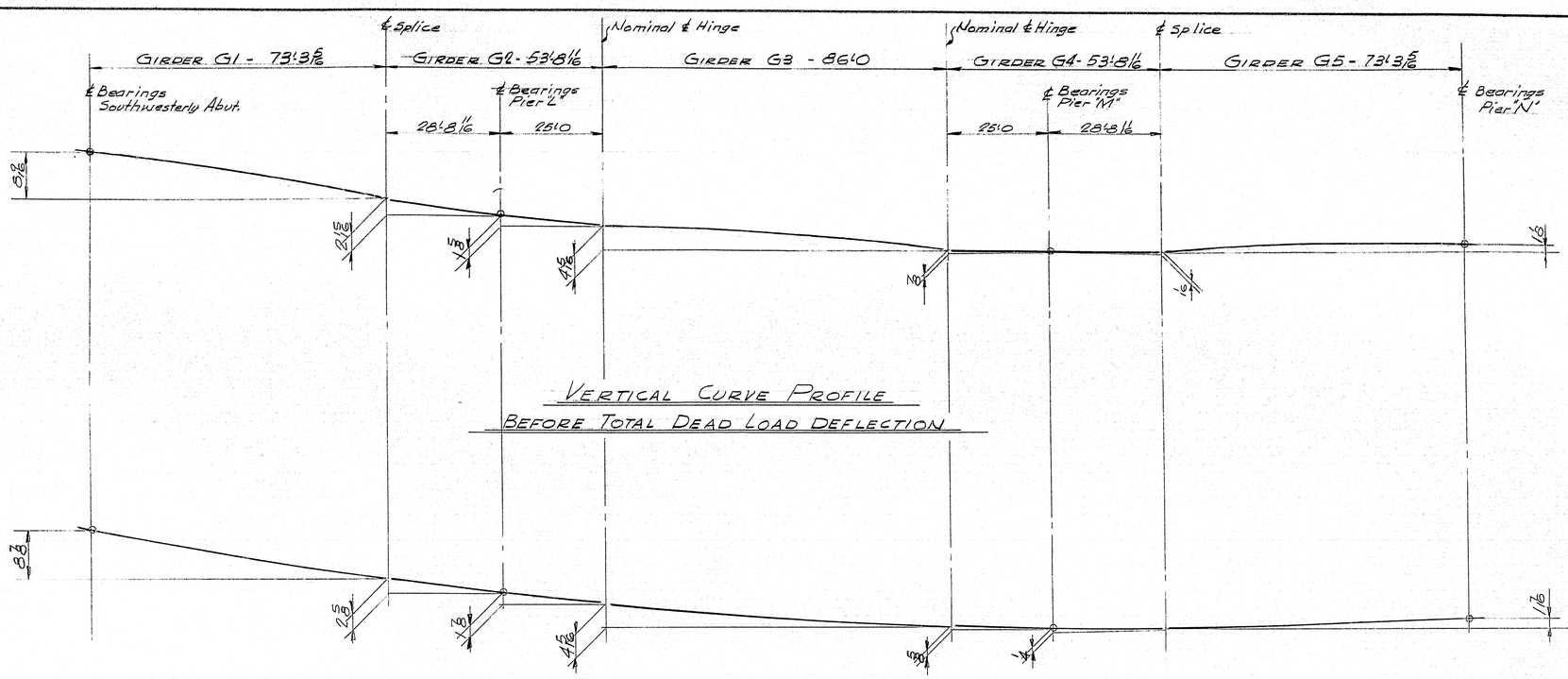
NOTES:
All vertical dimensions given to back of Top chord angles.

	SOUTHBOUND BRIDGE
	PROFILE & CAMBER DIAGRAMS
	Bancroft & Martin Rollings Mills Company South Portland 7, Maine
APP. 4-30-59	INTERSTATE #95 - OVER MESSALONSKEE STREAM WATERVILLE, MAINE
	CUSTOMER CIANCHETTE BROS
	DESIGNER THE CLARKESON ENGR. CO.
	ORDER NO. VERBAL / DWG. NO. 9-60-D1

DRAWN	4-3-59	J.P.F.
REVISION		
REVISION		
REVISION		

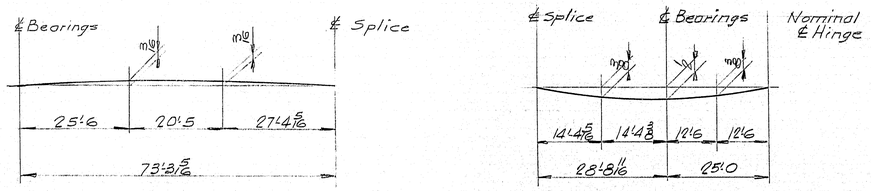
77-140





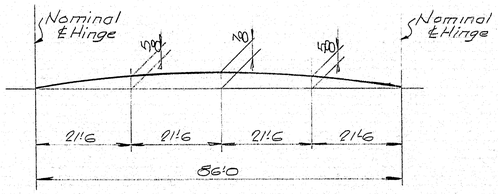
VERTICAL CURVE PROFILE
BEFORE TOTAL DEAD LOAD DEFLECTION

VERTICAL CURVE PROFILE
AFTER TOTAL DEAD LOAD DEFLECTION

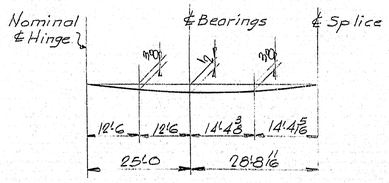


CAMBER - G1 GIRDERS

CAMBER - G2 GIRDERS



CAMBER - G3 GIRDERS



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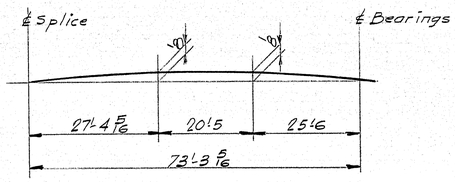


CAMBER - G5 GIRDERS

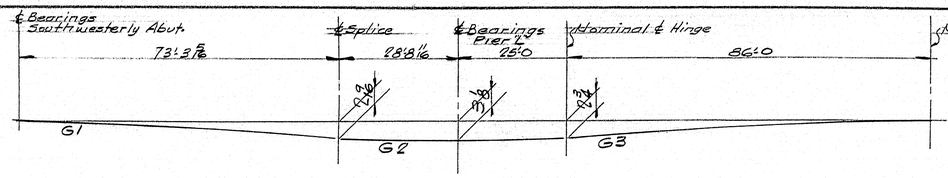
NOTES:
All vertical dimensions given to back of Top chord angles.

NORTHBOUND BRIDGE	
PROFILE & CAMBER DIAGRAMS	
Bancroft & Martin Rolling Mills Company, South Portland 7, Maine	
INTERSTATE #95 - OVER MESSALONSKEE STREAM, WATERVILLE, MAINE	
CUSTOMER Gianchette Bros.	
DESIGNER The Clarkeson Engr. Co.	
ORDER NO. Verbal	DWG. NO. 9-60-D2

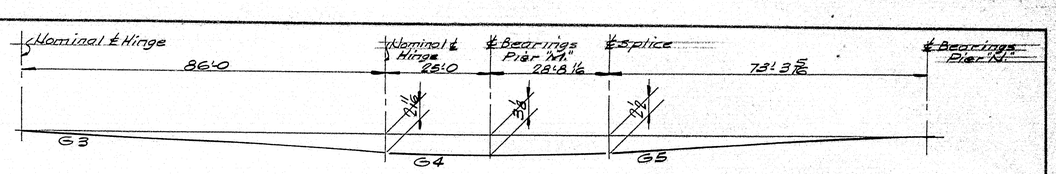
DRAWN	4-9-59	J.P.F.
REVISION		
REVISION		
REVISION		

APP'D 4-30-59

77-141

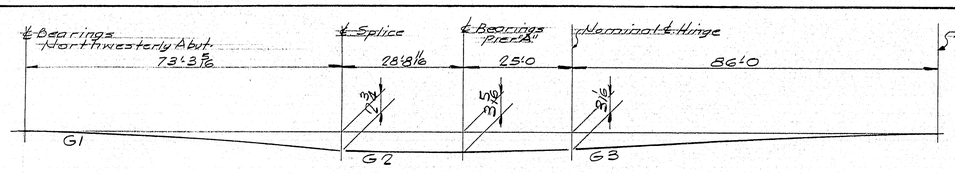


#1 LAYDOWN

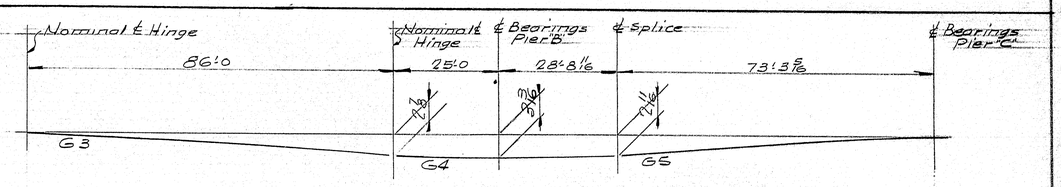


#2 LAYDOWN

NORTHBOUND BRIDGE



#1 LAYDOWN



#2 LAYDOWN

SOUTHBOUND BRIDGE

NOTE
All vertical dimensions given to back of Top chord angles.

LAY DOWN DIAGRAMS

Bancroft & Martin Rollings Mills Company
South Portland 7, Maine

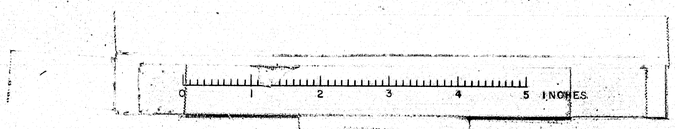
INTERSTATE #95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

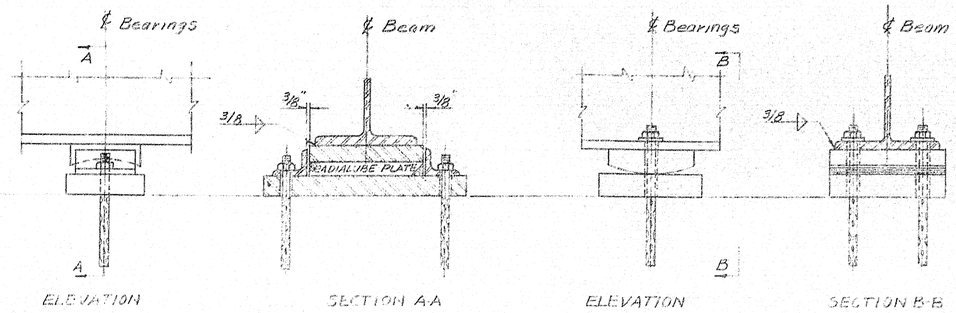
DRAWN	1-11-60	J.P.F.	
REVISION			
REVISION			
REVISION			

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.
ORDER NO. VERBAL
DWG. NO. 9-60-D3

MODERN BLUE PRINT CO.

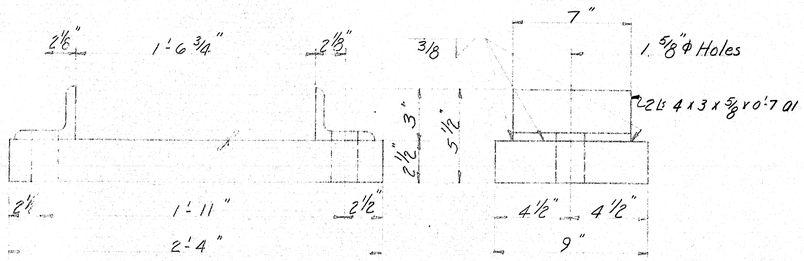
77-142



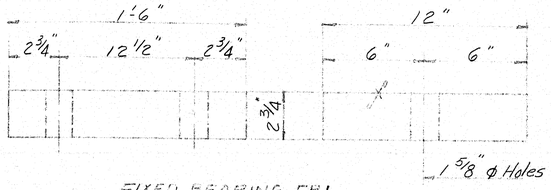


EXPANSION BEARING

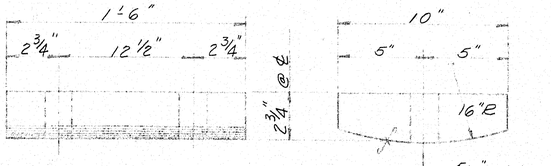
FIXED BEARING



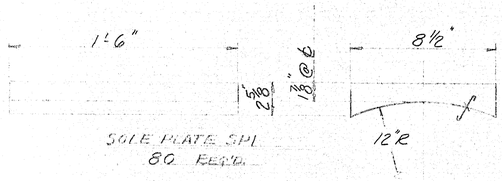
EXPANSION BEARING EB1
80 REQ'D.



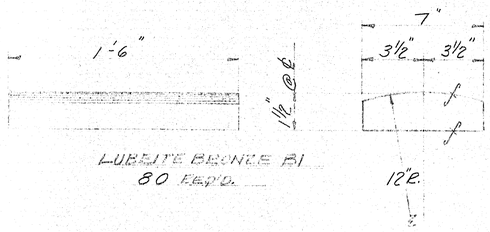
FIXED BEARING FB1
80 REQ'D.



SOLE PLATE SP2
80 REQ'D.



SOLE PLATE SP1
80 REQ'D.



LUBRITE BRONZE B1
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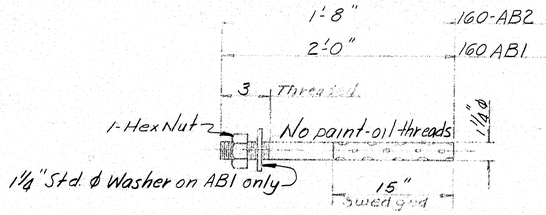


ANCHOR BOLTS
AB1 @ FB1
AB2 @ EB1

NOTE:
No paint on top of Sole Plates, all finished surfaces, & bottom side of all bearings.
Coat finished surfaces of steel with white lead & tallow.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
FB1	80		PL 12 x 2 3/4	1 6		Scale Weigh
EB1	80		PL 9 x 2 1/2	2 4		Do Do
AB1	160		1 1/4 ϕ Rod	2 0		Scale Weigh
AB2	160		1 1/4 ϕ Rod	1 8		Do Do
	80	SP1	PL 8 1/2 x 12 5/8	1 6		Scale Weigh
	80	SP2	PL 10 x 2 3/4	1 6		Do Do
	160	a1	L 4 x 3 x 5/8	0 7		
	320	Shop	1 1/4 Hex Nuts Std. ϕ			
	160	Shop	1 1/4 Washer			
B1	80		PL 7 x 1 1/2	1 6		Lubrite Bronze ordered 4-10-59

BILL OF MATERIAL — DWG. NO. 9-60-S1

ITEM 703-9 & 702-103

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Bolted
HOLES: As Noted
PAINT: Per State of Maine Specs and as noted

BEARING DETAILS - STRINGERS

Bancroft & Martin Rollings Mills Company
South Portland 7, Maine

INTERSTATE #95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER Cianchette Brothers
DESIGNER Clarkeson Engr. Co.

ORDER NO. VERBAL — DWG. NO. 9-60-S1

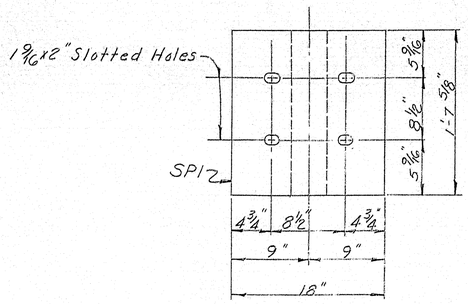
APPROVED 4-14-59

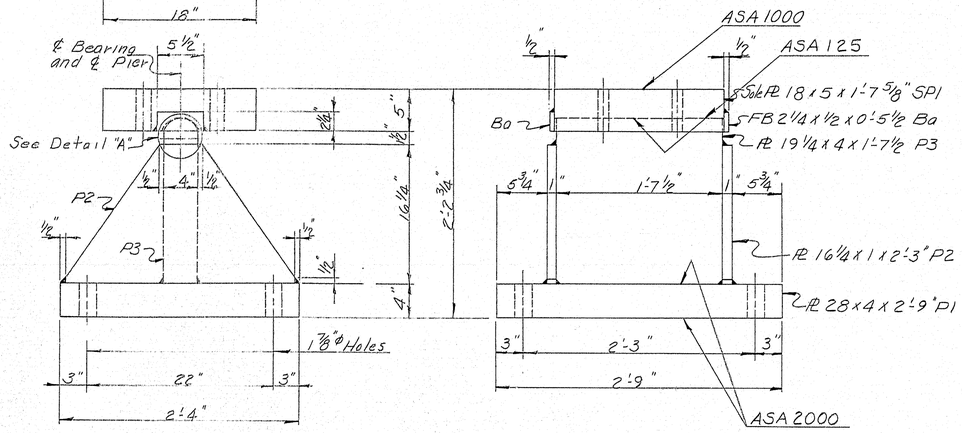
DRAWN	4-7-59	GM
REVISION		
REVISION		
REVISION		

1/63

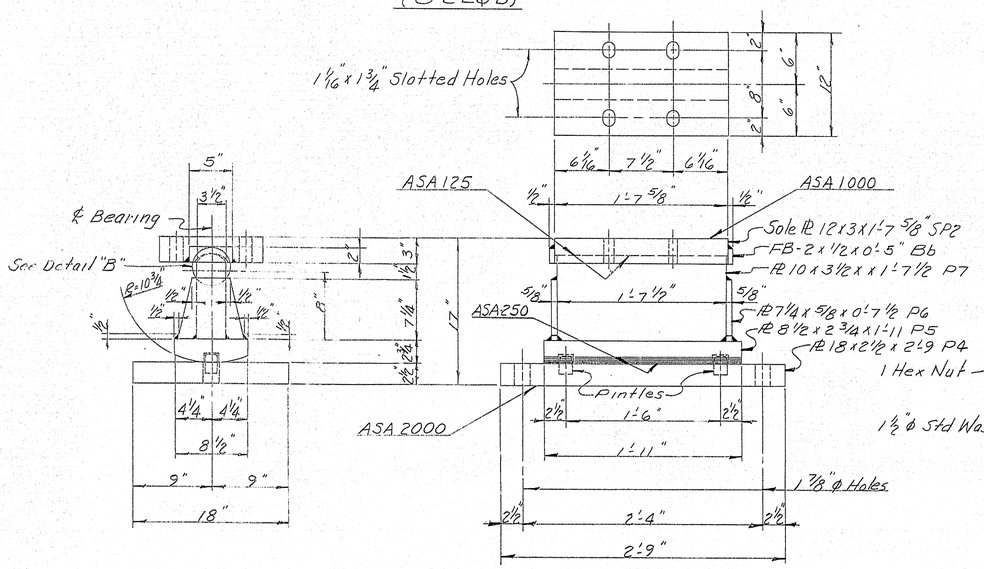
77-143

0 1 2 3 4 5 INCHES

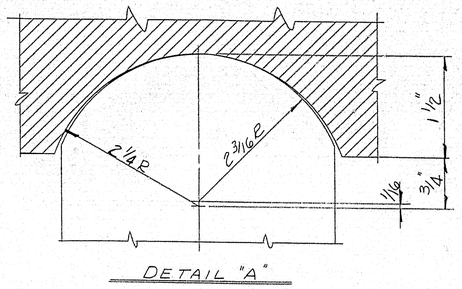




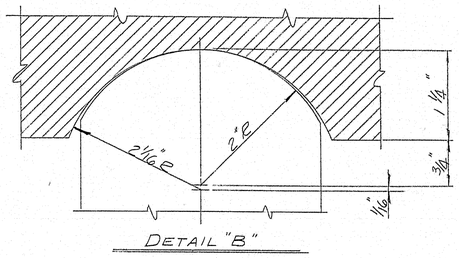
GIRDER FIXED BEARING FB2
(8 REQ'D)



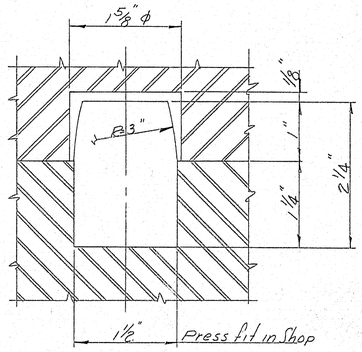
GIRDER EXPANSION BEARING EB2
8 REQ'D.



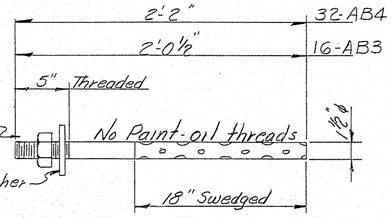
DETAIL "A"



DETAIL "B"



PINTLE DETAIL
16 REQ'D.



ANCHOR BOLTS-AB3 & AB4
AB4-32 REQ'D. @ FB2
AB3-16 REQ'D. @ EB2

NOTE
1- Top side of Sole PL & underside of bottom PL to be free of paint on all bearings.
2- Coat all finished surfaces with white lead & tallow.
3- All steel in Bearings shall conform to A.S.T.M. Designation A-373.

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
FB2	8		Fixed Brg.				Scale Weigh
EB2	8		Exp. Brg.				Do Do
AB3	16		1 1/2" ϕ Rod	2	2		Scale Weigh
AB4	32		Do	2	0 1/2		Do Do
	8	SP1	PL 18 x 5	1	7 5/8		A-373
	8	SP2	PL 12 x 3	1	7 5/8		A-373
	8	P1	PL 28 x 4	2	9		A-373
	16	P2	PL 16 1/4 x 1	2	3		A-373
	8	P3	PL 19 1/4 x 4	1	7 1/2		A-373
	8	P4	PL 18 x 2 1/2	2	9		A-373
	8	P5	PL 8 1/2 x 2 3/4	1	11		A-373
	16	P6	PL 7 1/4 x 5/8	0	7 1/2		A-373
	8	P7	PL 10 x 3 1/2	1	7 1/2		A-373
	16	Ba	FB 2 1/4 x 1/2	0	5 1/2		A-373
	16	Bb	FB 2 x 1/2	0	5		A-373
	16	Pintles	1 1/2" ϕ Bar	0	2 1/4		A-373
	48	Shop	1 1/2 Hex Nut				
	48	Shop	1 1/2" Std. ϕ Washer				

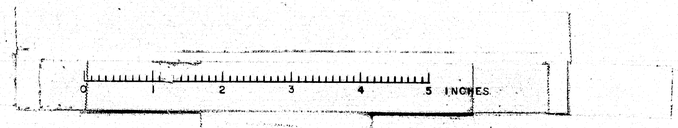
SHOP CONNECTIONS: 1/2" Cont. fillet
FIELD CONNECTIONS: Bolted
HOLES: As Noted
PAINT: Per State of Maine Specs., and as noted.

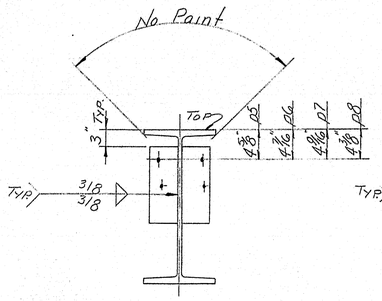
BEARING DETAILS - GIRDERS
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
INTERSTATE #95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE
CUSTOMER CIANCHETTE BROTHERS
DESIGNER CLARKESON ENGR. CO.
ORDER NO. VERBAL DWG. NO. 9-60-52

DRAWN	4.8.52	F.G.M.
REVISION		
REVISION		
REVISION		

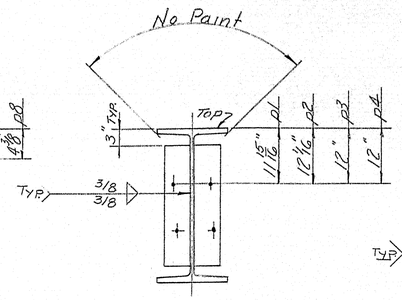
APPROVED 4-14-52

77-144

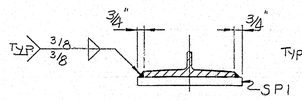




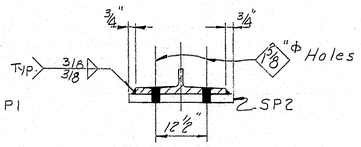
TYPICAL @ END PLATES



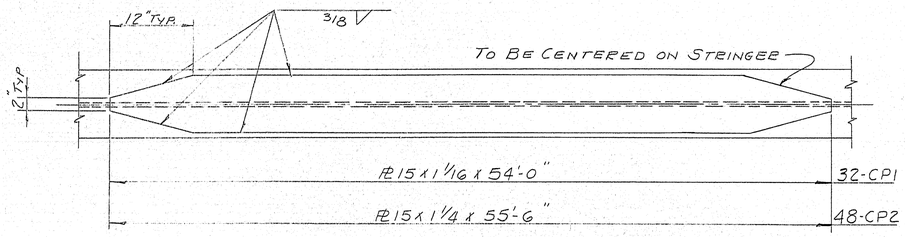
TYPICAL @ INT. PLATES



TYPICAL @ EXP. Brg.



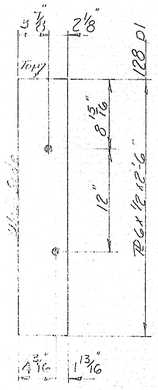
TYP. @ FIXED Beg.

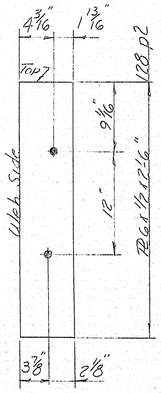


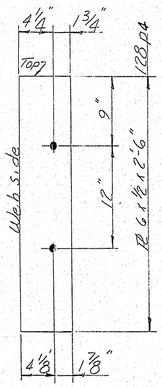
TYPICAL COVER PLATE DETAIL

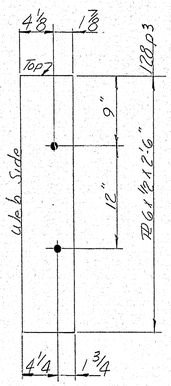
NOTE: No camber in beams required any natural camber to be placed up.

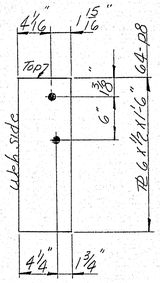
Beams & Cover Plates to be A.S.T.M. Designation A-373

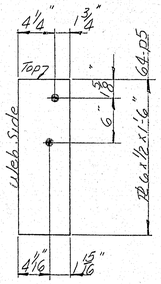


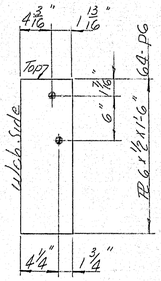


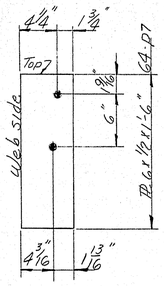












NOTE:
No paint on p1 to p8 Inc.

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS

BILL OF MATERIAL DWG. NO.

SHOP CONNECTIONS:
FIELD CONNECTIONS:
HOLES: 13/16 ϕ except as noted
PAINT: Per State of Maine Specs. and as noted.

DRAWN	4.28.59	R.G.M.
REVISION		
REVISION		
REVISION		

APPROVED 5-22-59

STRINGER DETAILS

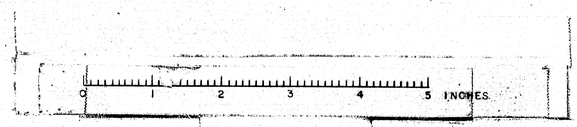
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

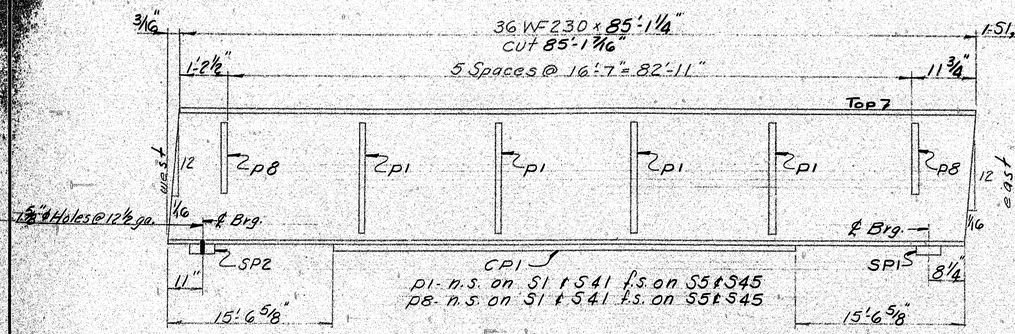
INTERSTATE #95 OVER MESSALONSKEE STREAM
WATERVILLE MAINE

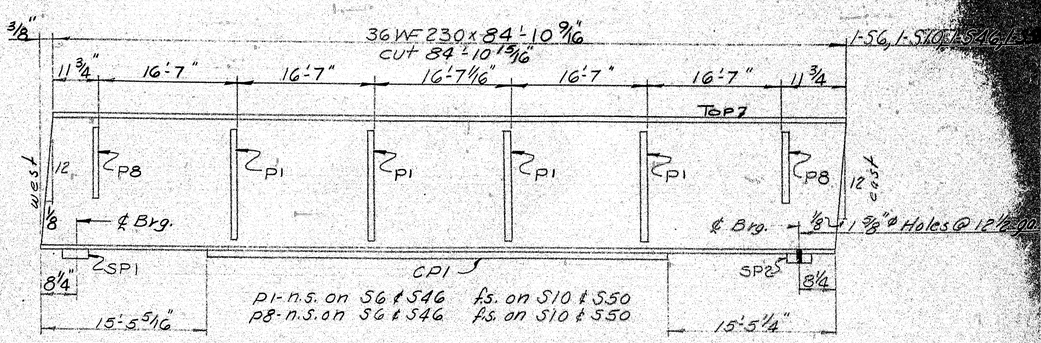
CUSTOMER Cianchette Bros.
DESIGNER The Clarkeson Engr Co.

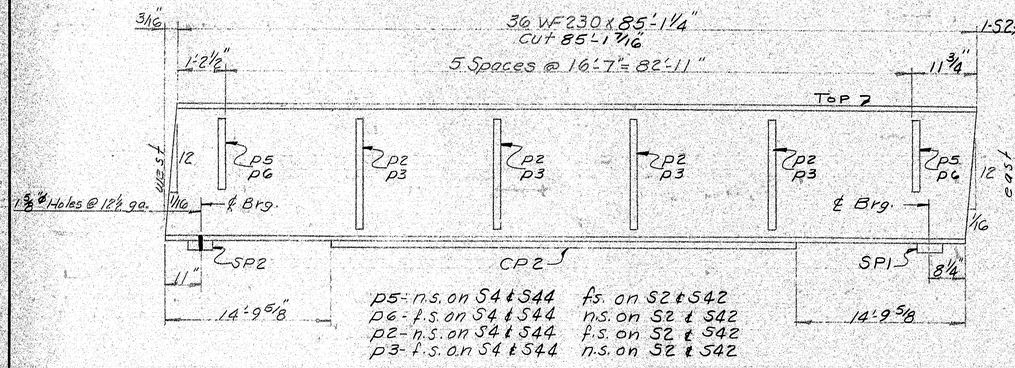
ORDER NO. VERBAL DWG. NO. 9-60-53

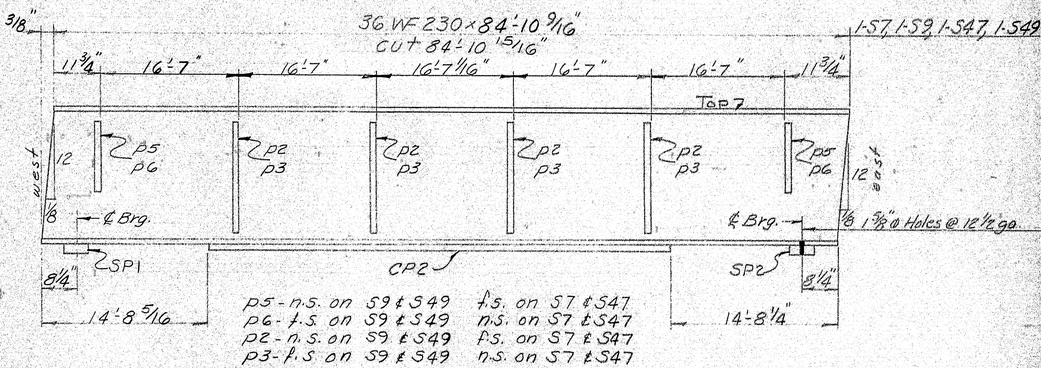
77-145

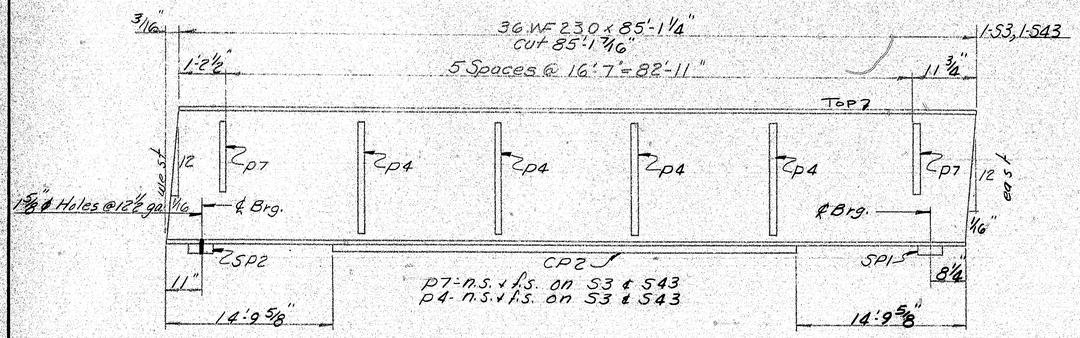












for Bill of Material see Sheet 9-60-S4A, 9-60-S4B, 9-60-S4C, & 9-60-S4D.

NOTES: Paint: Per State of Maine Specifications & as noted.

Beams & Cover Plates are to be A.S.T.M. Designation A-373

See Dwg. 9-60 S3 for Typ. Sections & Details

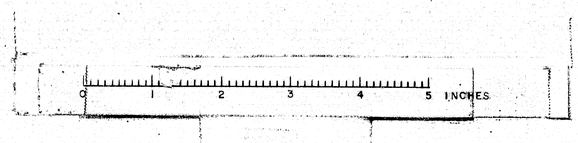
STRINGER DETAILS

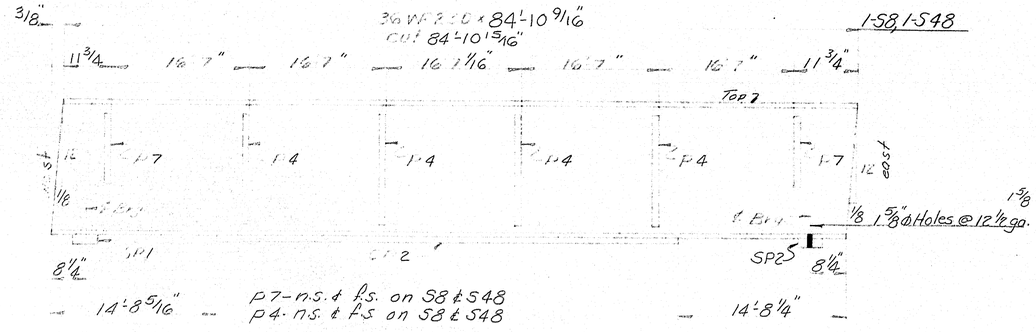
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

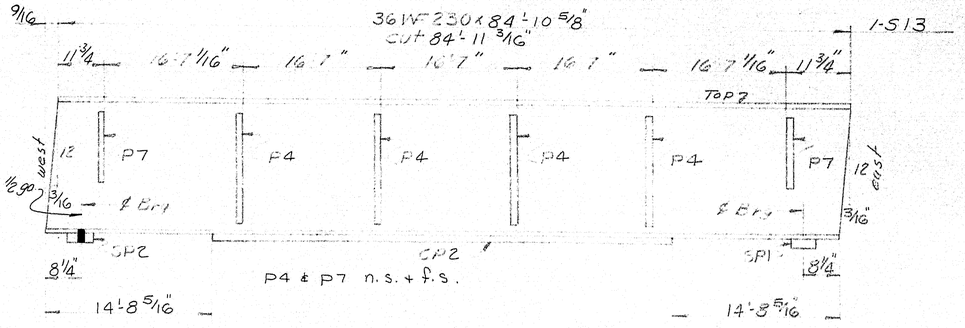
INTERSTATE RE 95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

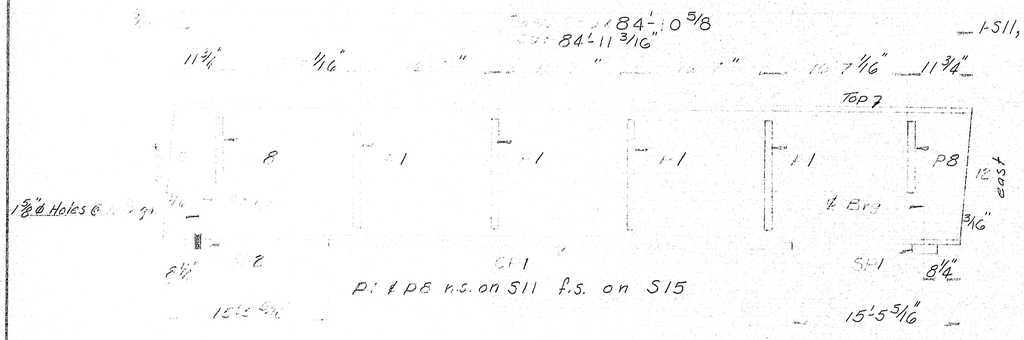
DRAWN	4-22-59	TEM	CUSTOMER CIANCHETTE BROS.
REVISION			DESIGNER THE CLARKESON ENGR. CO.
REVISION			ORDER NO. VERBAL / DWG. NO. 9-60-S4
REVISION			

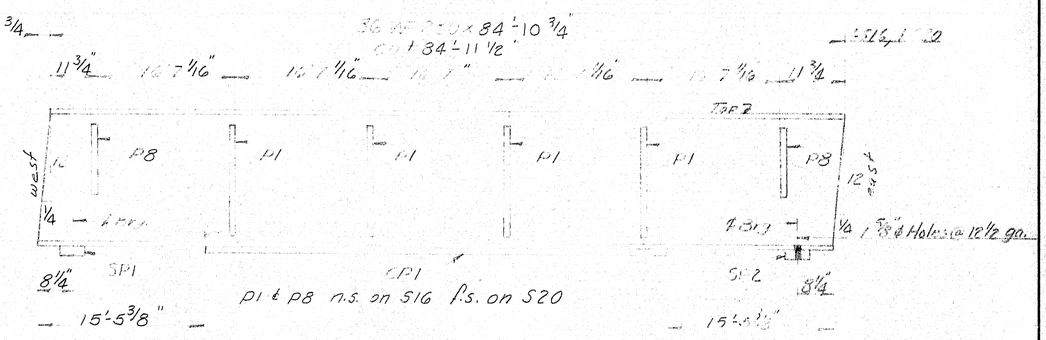
77-146

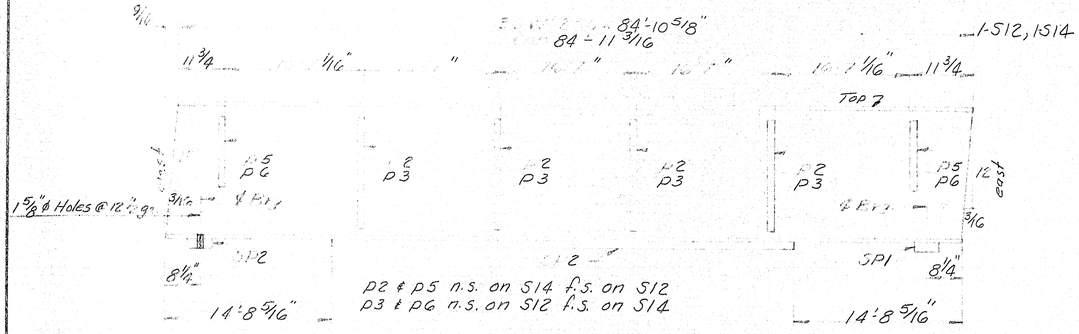












for Bill of Material see Sheet 9-60-S1C, 9-60-S7D, 9-60-S5A, & 9-60-S5B

NOTES: Plate Pr. State of Maine
Sect. of Steel Fabrication
Beam & Cover Plates
are to ASTM Designation A-373
See Dwg. 9-60 S3 for
Connections & Details

Approved 5-26-59

STRINGER DETAILS

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE "95 OVER
MESSALONSKEE STREAM
WATERVILLE, MAINE

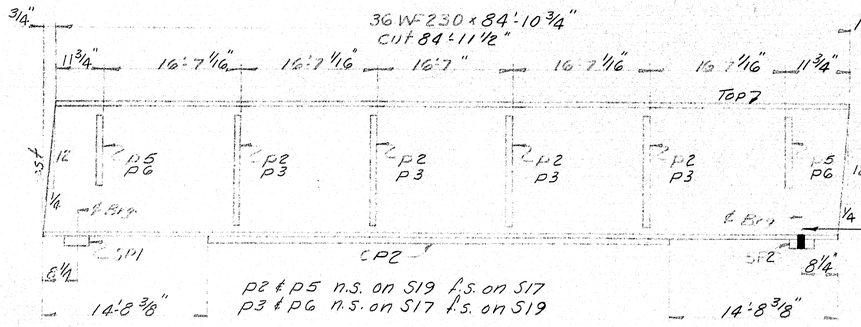
CUSTOMER Chalmette Bros.
DESIGNER The Clarkeson Engr. Co.

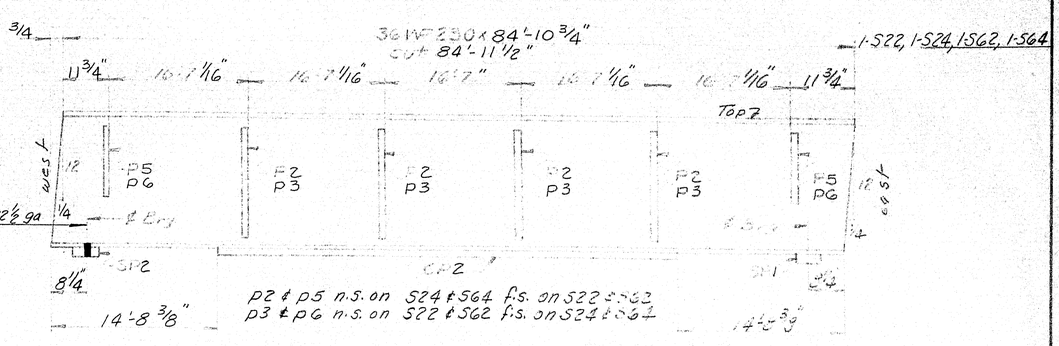
DRAWN	4.23.59	PBM
REVISION		
REVISION		
REVISION		

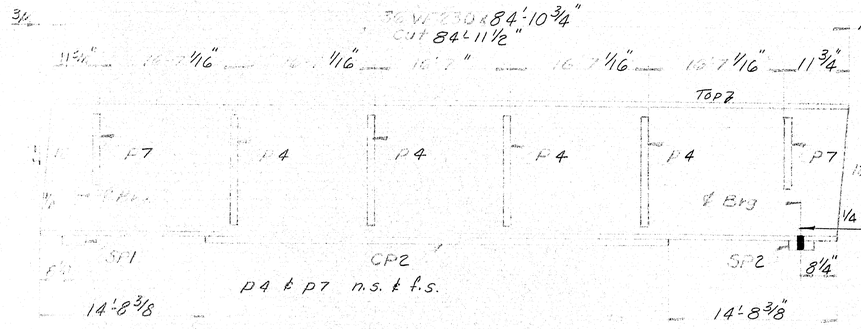
ORDER NO. Ver Bal | DWG. NO. 9-60-S5

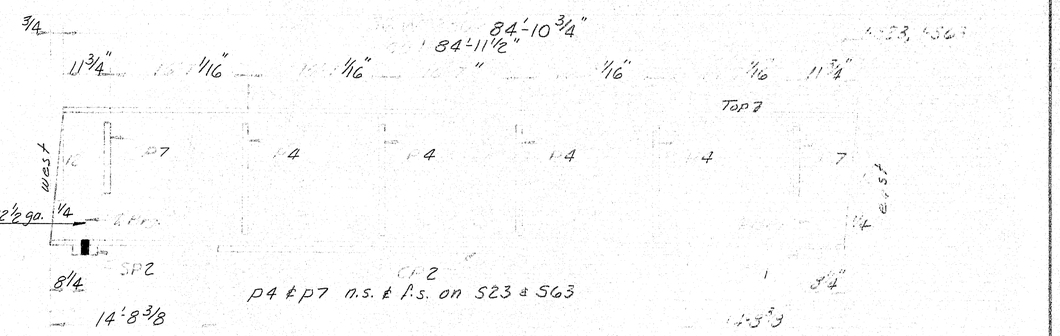
77-147

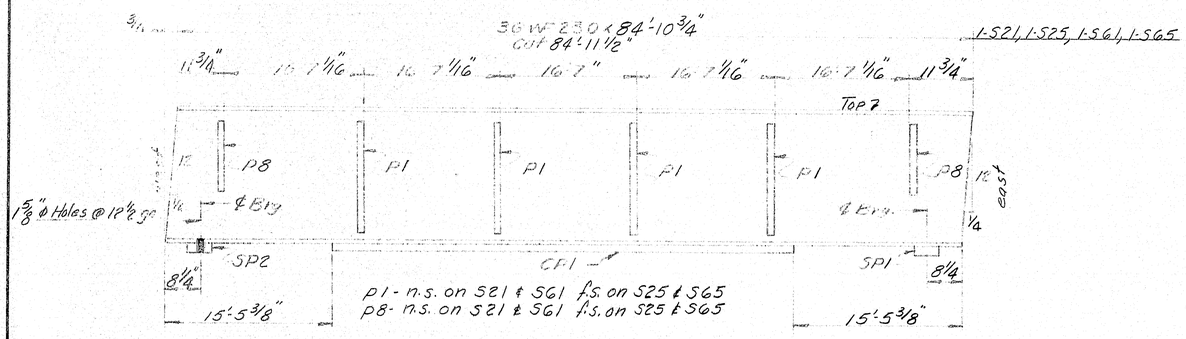
0 1 2 3 4 5 INCHES











for Bill of Material see Sheet 1-60-55B & 56-56A

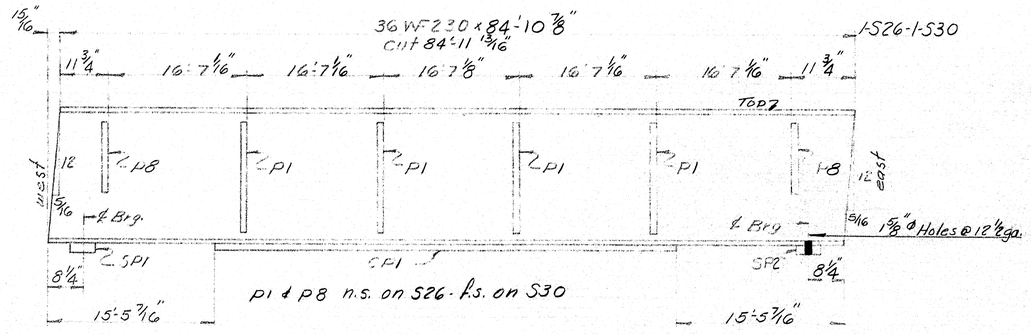
APPROVED 5-22-59

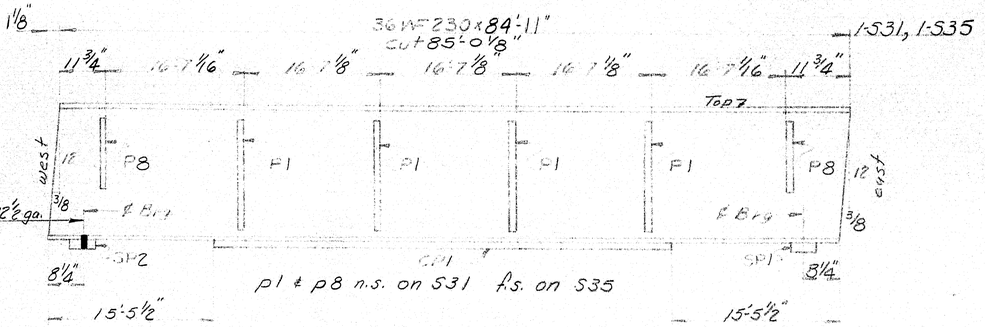
Bureau of G. Martin Rolling Mills Company
South Portland, Maine

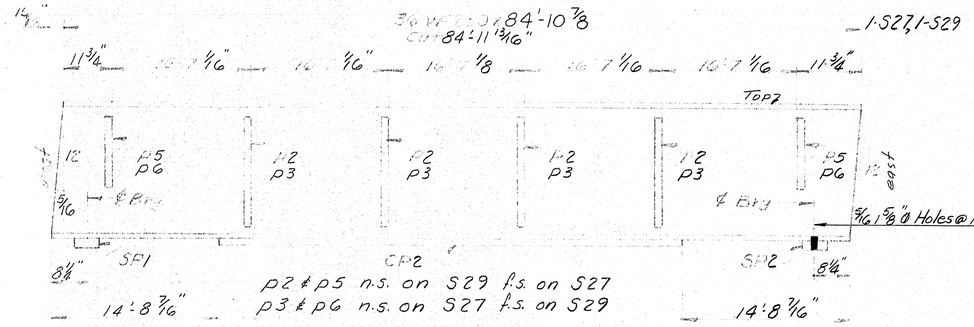
DRAWN 4-23-59
REVISION
REVISION
REVISION

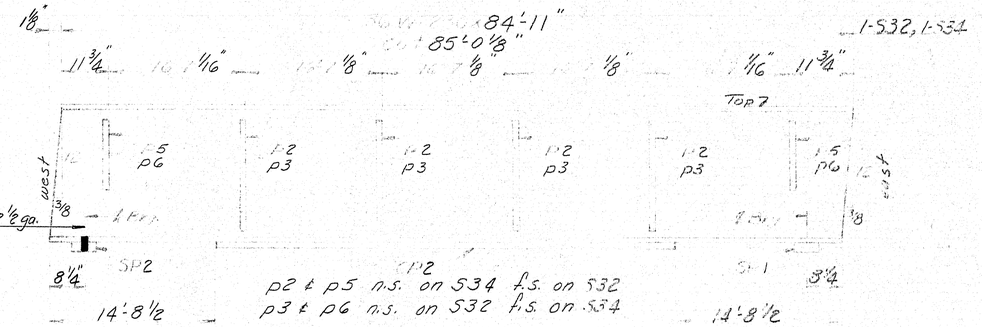
CUSTOMER
DESIGNER
ORDER NO.
DWG. NO. 260-56

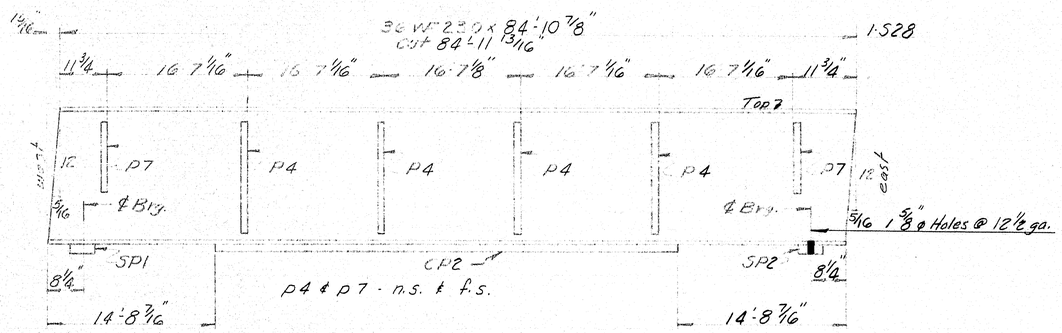
77-148











For Bill of Material See Sheet 9-60-57A & 9-60-57B

NOTES:

BUILT IN DETAILS

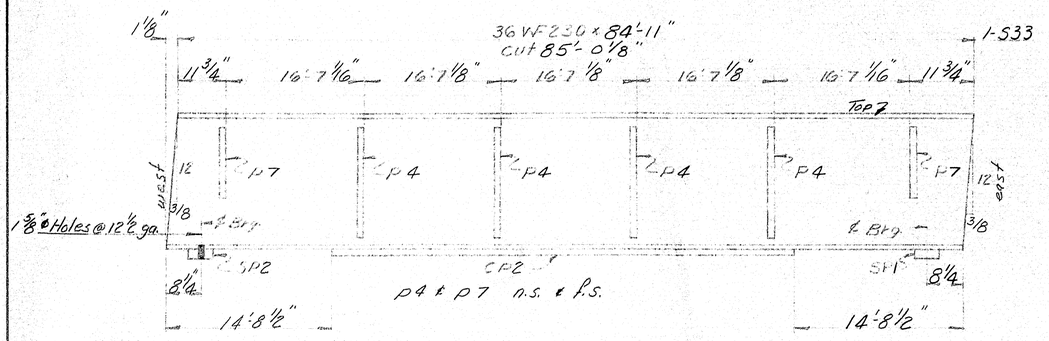
Bancroft & Martin Rolling Mills Company
South Portland, Maine

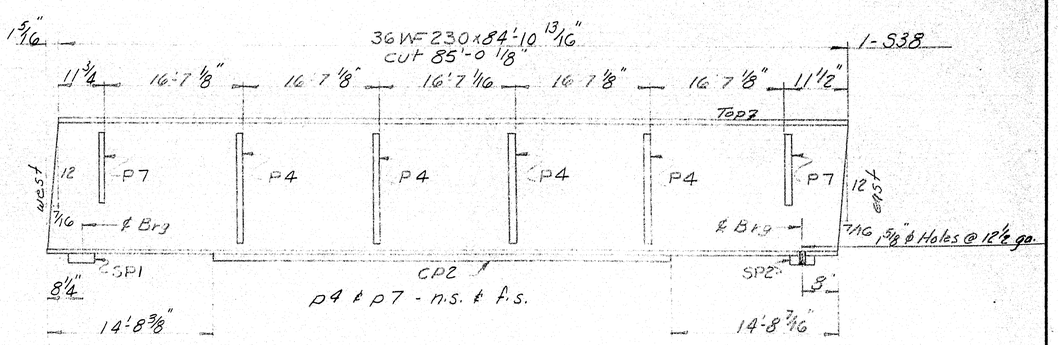
DRAWN 4-24-59
REVISION
REVISION
REVISION

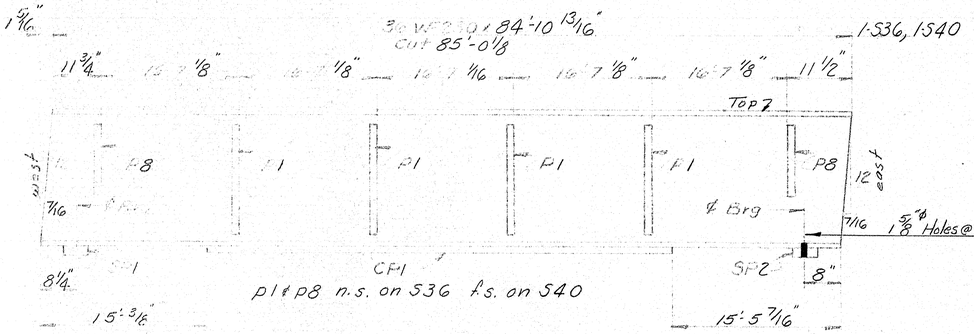
CUSTOMER
DESIGNER
ORDER NO.
DWG. NO. 9-60-57

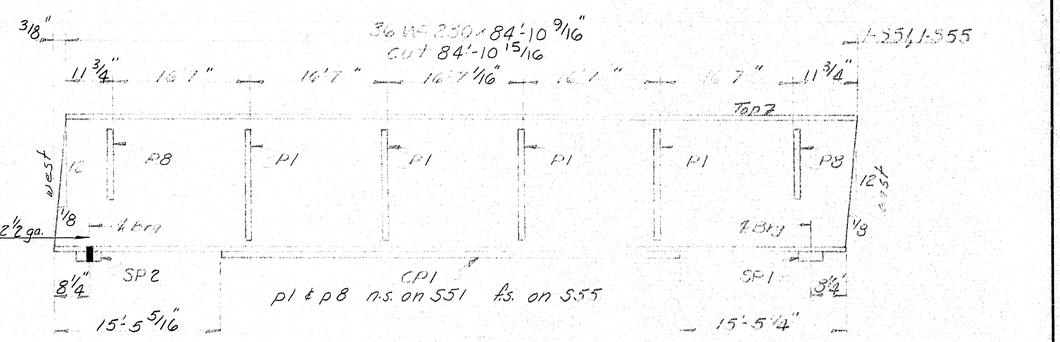
77-149

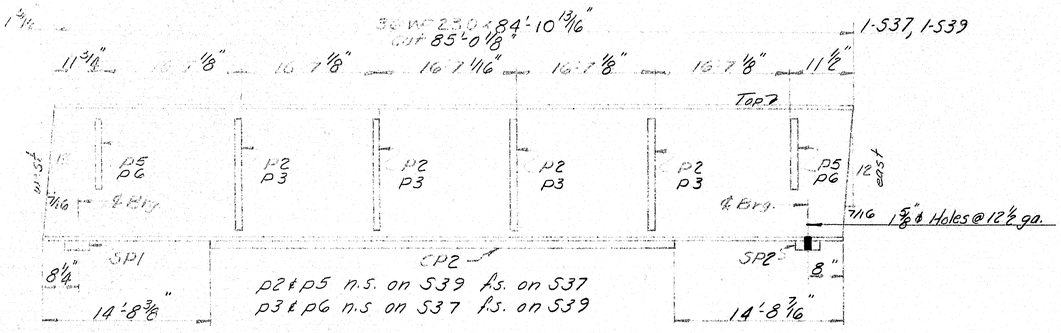
0 1 2 3 4 5 INCHES











for Bill of Material see Sheet 9-60-57B, 9-60-58A & 9-60-33B

NOTES: Paint: Per State of Maine Specifications f as noted.
Beams & Cover Plates are to be ASTM Designation A-373
See Dwg. 9-60-53 for Typ. Sections & Details

STRINGER DETAILS

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. Co.

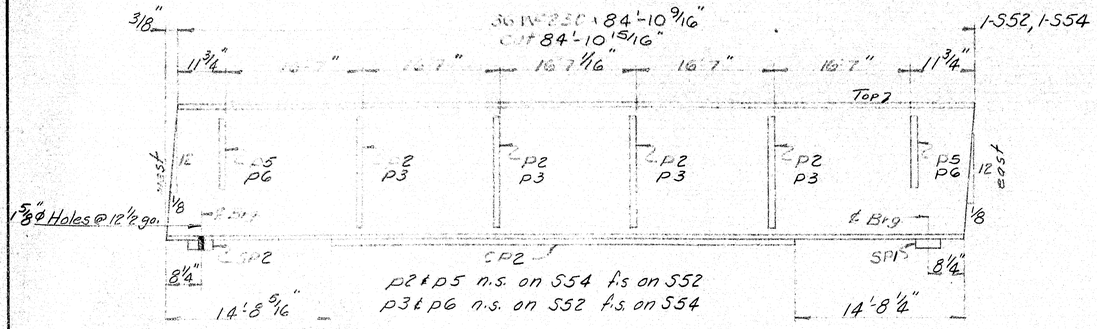
DRAWN	4-24-59	VGM	
REVISION			
REVISION			
REVISION			

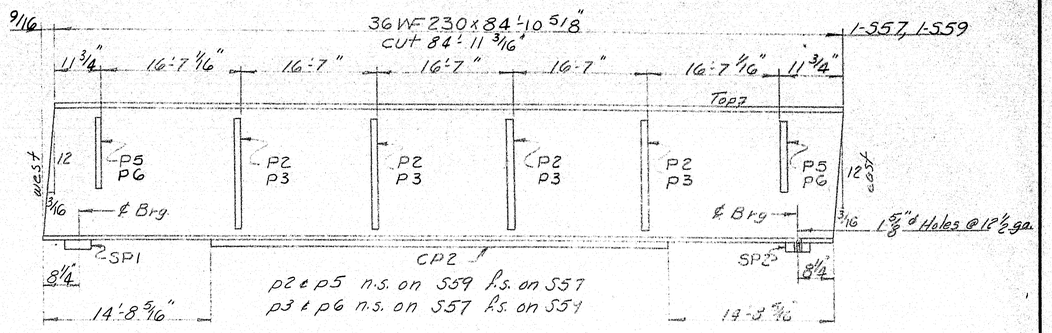
APPROVED 5-26-59

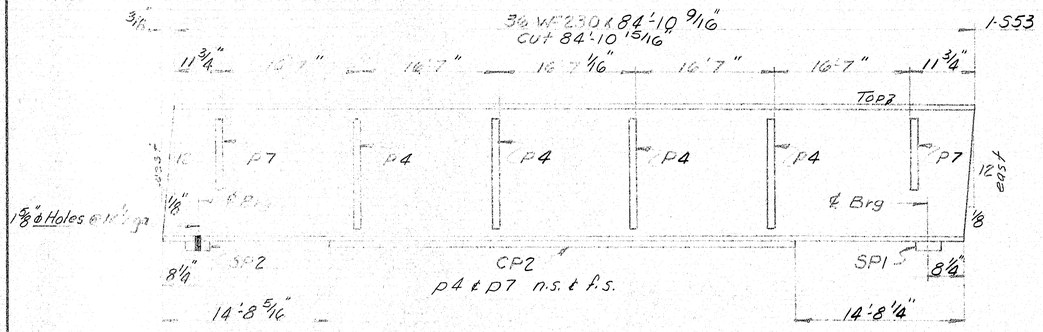
ORDER NO. VERBAL | DWG. NO. 9-60-58

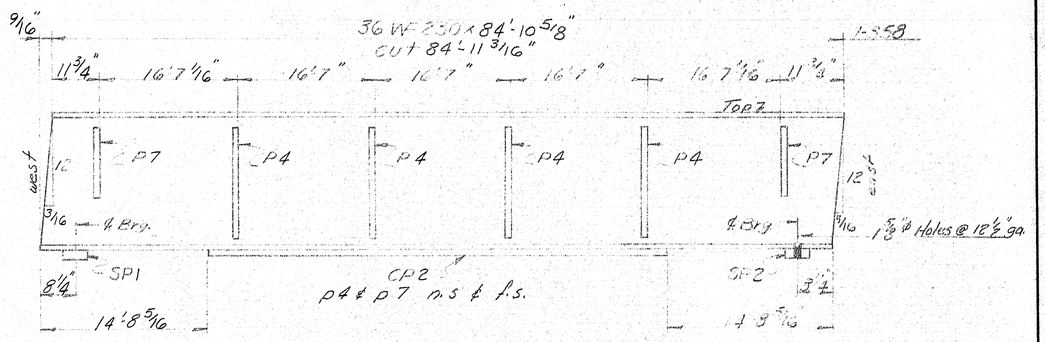
77-150

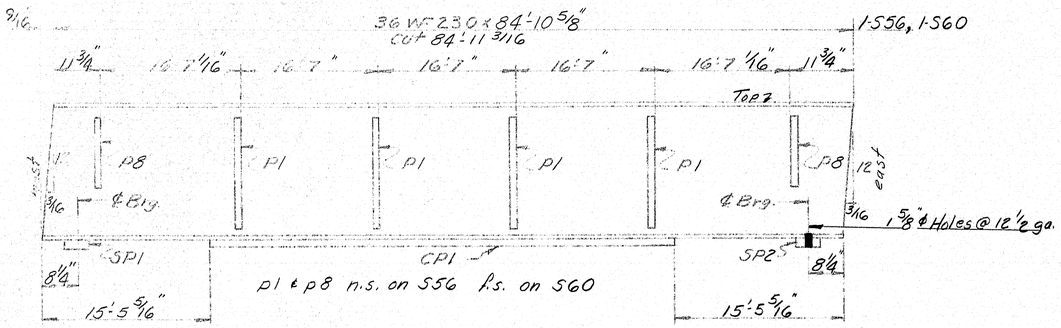
0 1 2 3 4 5 INCHES











for Bill of Material see Sheet 9-60-S8B & 9-60-S9A

NOTES: Paint: Per State of Maine Specifications & as noted.
Beams & Cover Plates are to be A.S.T.M. Designation A-373
See Dwg. 9-60 S8 for Typ. Sections & Details

STRINGER DETAILS

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

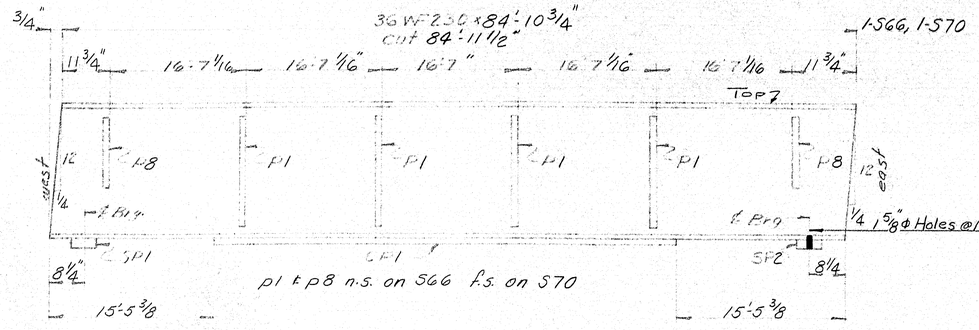
CUSTOMER Gianchette Bros.
DESIGNER The Clarkeson Engr. Co.

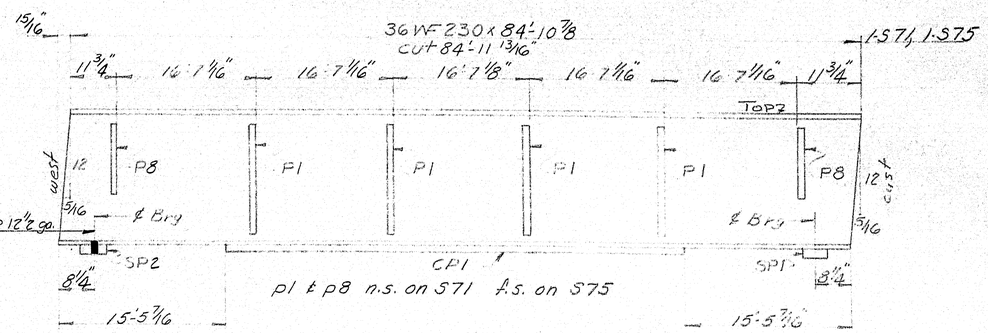
ORDER NO. Verbal | DWG. NO. 9-60-S9

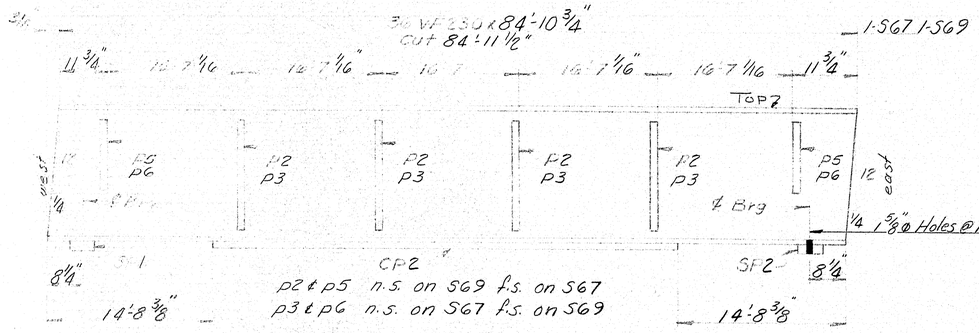
DRAWN	4-24-59	FEM
REVISION		
REVISION		
REVISION		

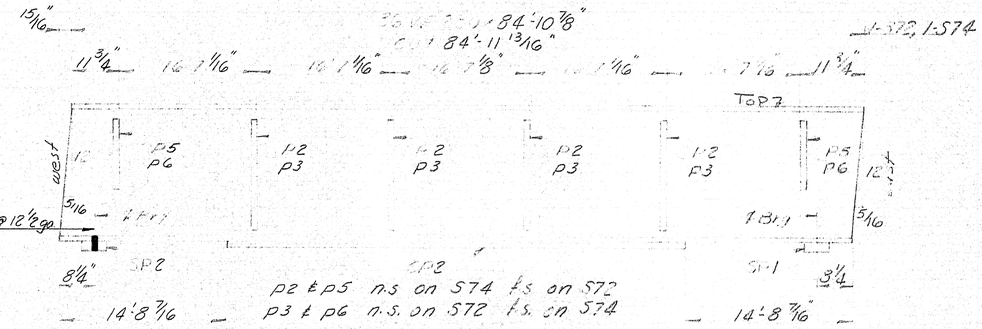
Approved 5-22-59

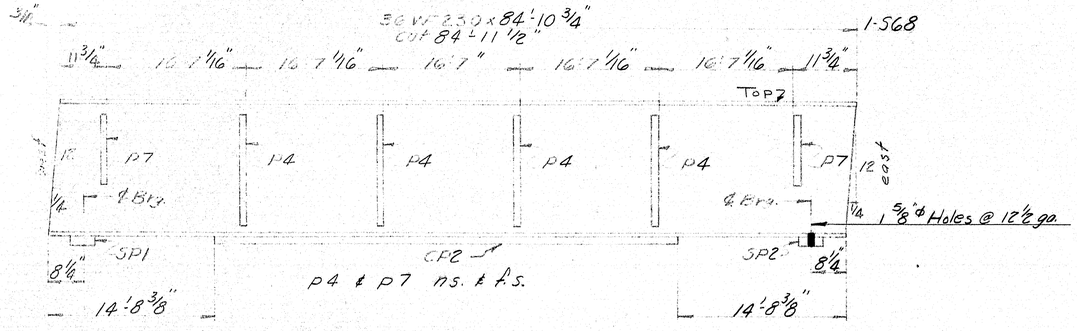
77-151











For Bill of Material see Sheet 9-60-510A & 9-60-510B

NOTES: Fabrication Per State of Maine Specifications & as noted.
Beams & Cover Plates are to be A.S.T.M. Designation A-373
See Dwg. 9-60-55 for Typ. Sections & Details

APPROVED 5-22-59

STRINGER DETAILS

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE "95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

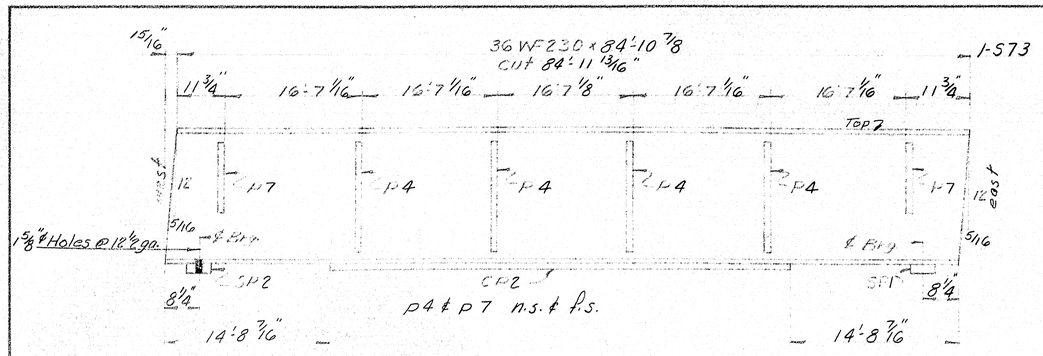
DRAWN	42559	TGM
REVISION		
REVISION		
REVISION		

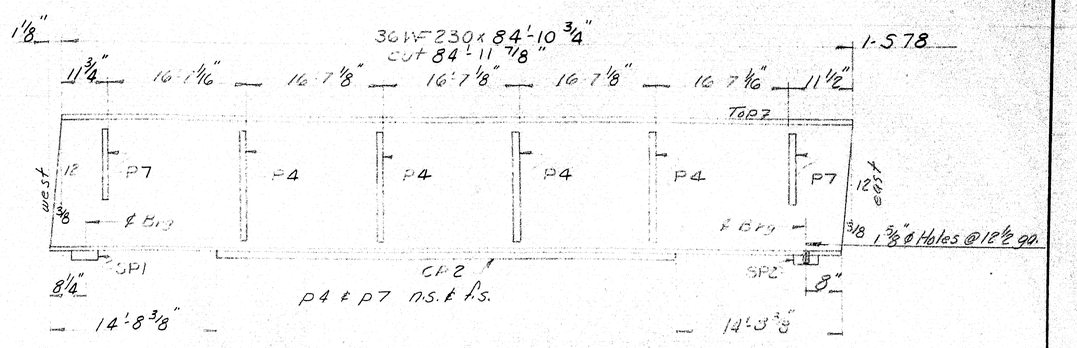
CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. Co.
ORDER NO. VERBAL
DWG. NO. 9-60-510

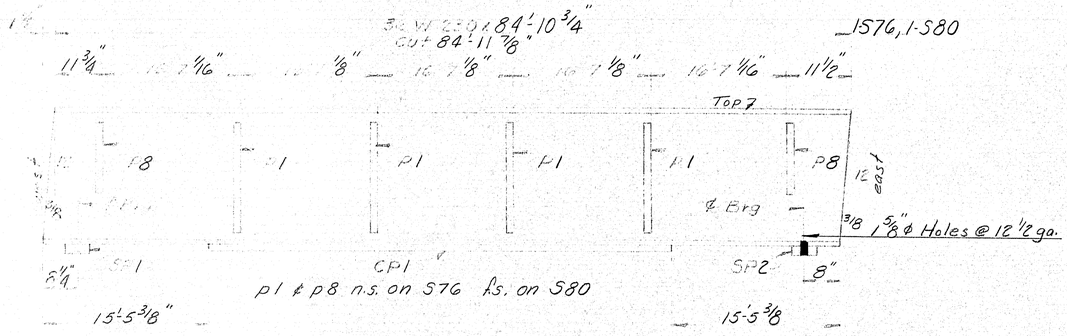
77-152

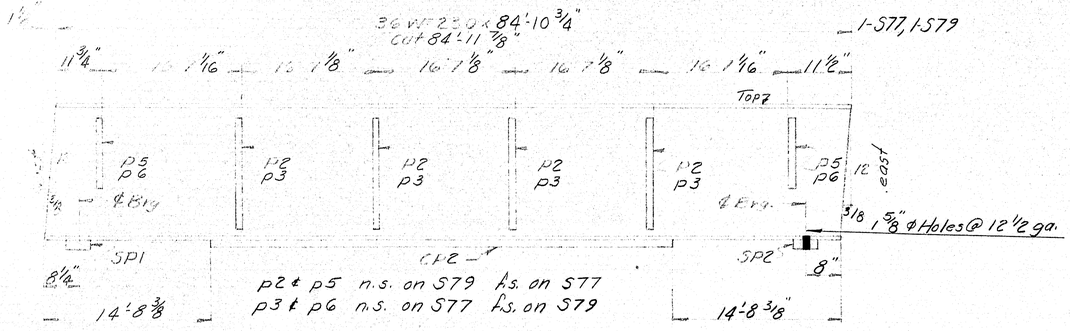
PRINTED BY SMALLEY-MOORE CO., PORTLAND, MAINE. BLUE PRINT NO. 63-3972

0 1 2 3 4 5 INCHES









For Bill of Materials see Sheet 9-60-511A

NOTES: Unless otherwise noted all steel shall conform to ASTM Designation A-373
See Dwg. 9-60-513 for Typ. Sections & Details

STRINGER DETAILS

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER Cianbette Bros.
DESIGNER The Clarkeson Engr. Co.

DRAWN	4.27.59	TGM
REVISION		
REVISION		
REVISION		

ORDER NO. Verbal
DWG. NO. 9-60-511

APPROVED 5.22.59

77-153

PRINTED BY SHUMWAY-HOWE CO., BOSTON, MASS. TELEPHONE NO. LI 5124

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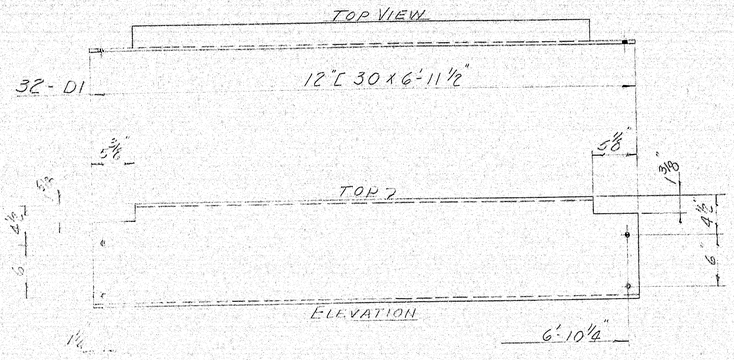
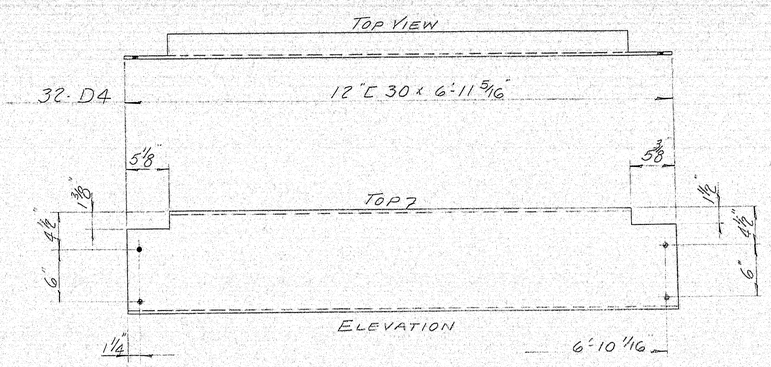
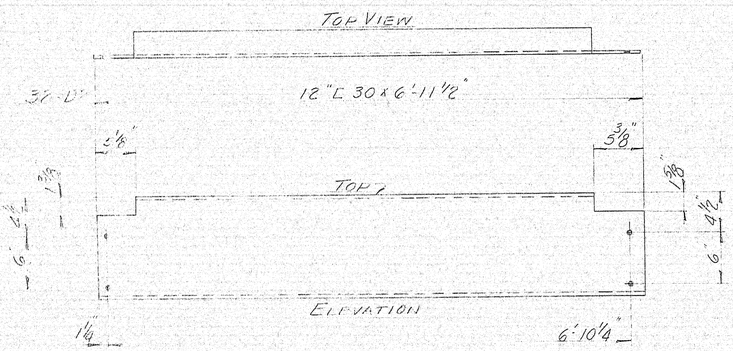
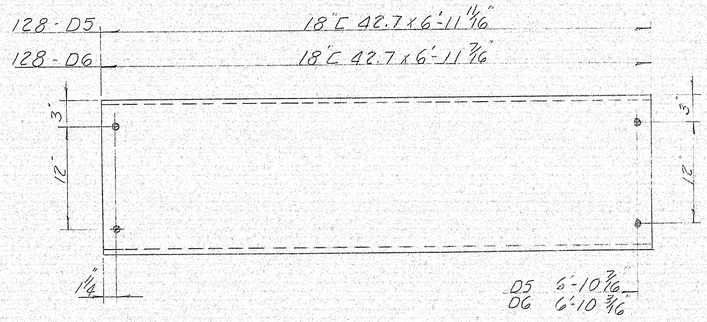
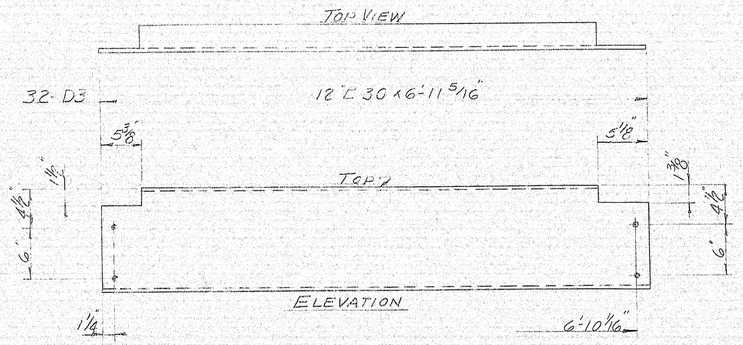
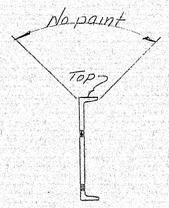












TYPICAL ALL 12"C 30

NOTE:
1. No paint 5" from each end on all Diaphragms
2 All Holes 13/16" ϕ.

NOTES: PAINT: Per State of Maine Specifications except as noted.

DIAPHRAGM DETAILS

Bancroft & Morton Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 over
MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER Canadian Bridge Co.
DESIGNER Clarkson Engr. Co. Inc.

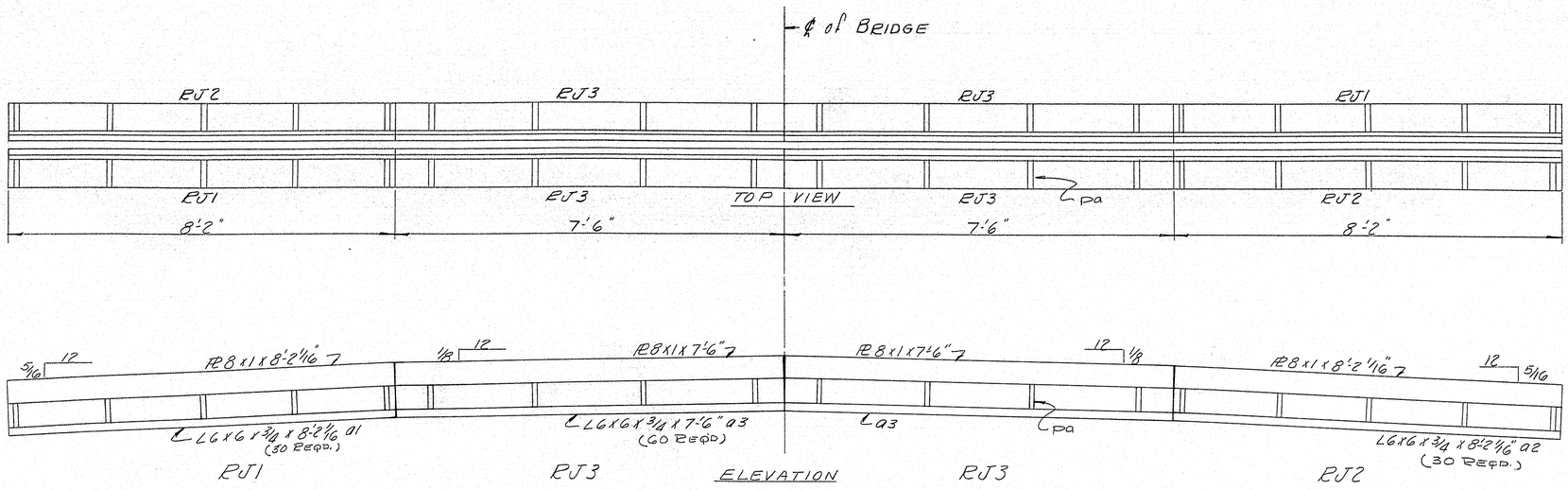
ORDER NO. VERBAL DWG. NO. 3-60-S12

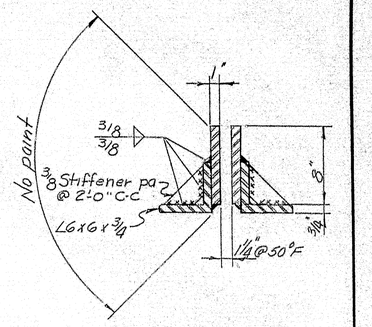
DRAWN	4-25-62	KEN
REVISION		
REVISION		
REVISION		

APPROVED 5-22-62

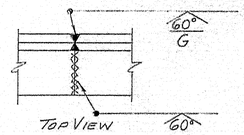
77-154

PRINTED BY BROWN-BRADLEE CO. BOSTON, MASS. REORDER NO. 14-9124

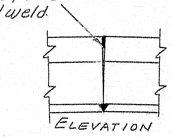




TYP. SECTION @ ROADWAY JOINT

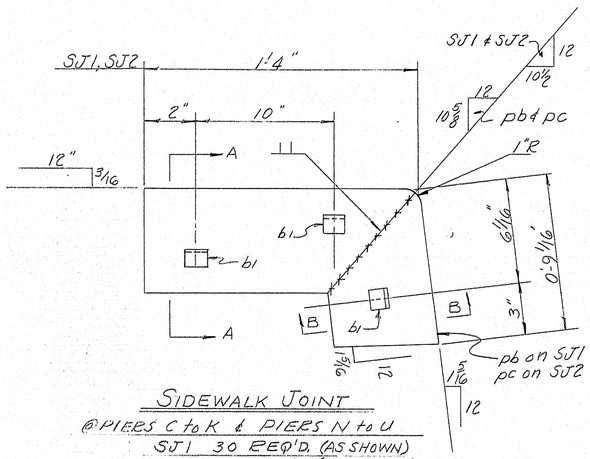


Cut ends of PLs & Ls Square
Bevel 30° for field weld.

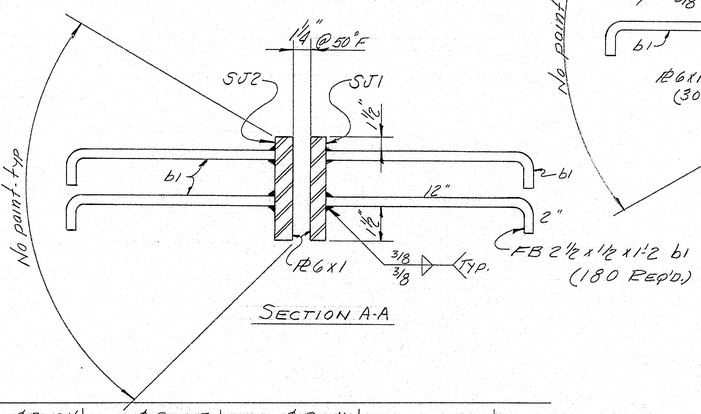


DETAIL "A"

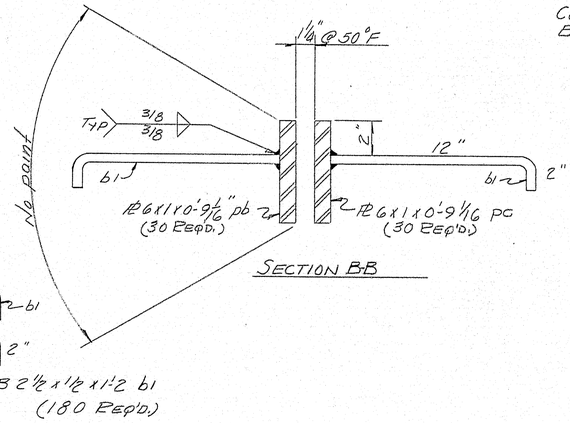
ROADWAY JOINT ERECTION PLAN
@ PIERS C to K and PIERS N to U
PJ1 30 Req'd.
PJ2 30 Req'd
PJ3 60 Req'd.



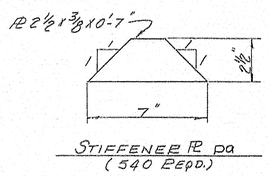
SIDEWALK JOINT
@ PIERS C to K & PIERS N to U
SJ1 30 Req'd. (AS SHOWN)
SJ2 30 Req'd. (OPP HAND)



SECTION A-A



SECTION BB



STIFFENER PL pa
(540 Req'd.)

NOTES: Paint per State of Maine Specifications & as noted.

℄ Pier C ℄ N	℄ Pier D ℄ O		℄ Pier E ℄ P		℄ Pier F ℄ Q		℄ Pier G ℄ R		℄ PIER H ℄ S		℄ PIER J ℄ T		℄ Aer K ℄ U		
SJ2	Span 4+15	SJ1	Span 5+16	SJ1	Span 6+17	SJ1	Span 7+18	SJ1	Span 8+19	SJ1	Span 9+20	SJ1	Span 10+21	SJ1	Span 11+22
PJ2		PJ1		PJ1		PJ1		PJ1		PJ1		PJ1		PJ1	
PJ3		PJ3		PJ3		PJ3		PJ3		PJ3		PJ3		PJ3	
PJ3		PJ3		PJ3		PJ3		PJ3		PJ3		PJ3		PJ3	
PJ1		PJ2		PJ2		PJ2		PJ2		PJ2		PJ2		PJ2	
SJ1		SJ2		SJ2		SJ2		SJ2		SJ2		SJ2		SJ2	

FRAMING PLAN for ROADWAY & SIDEWALK JOINTS

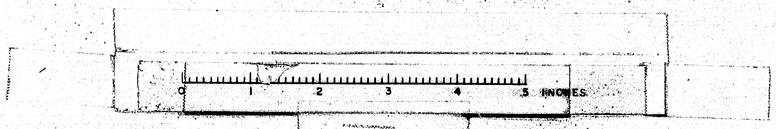
SHIM
PL 7 x 7
No Paint

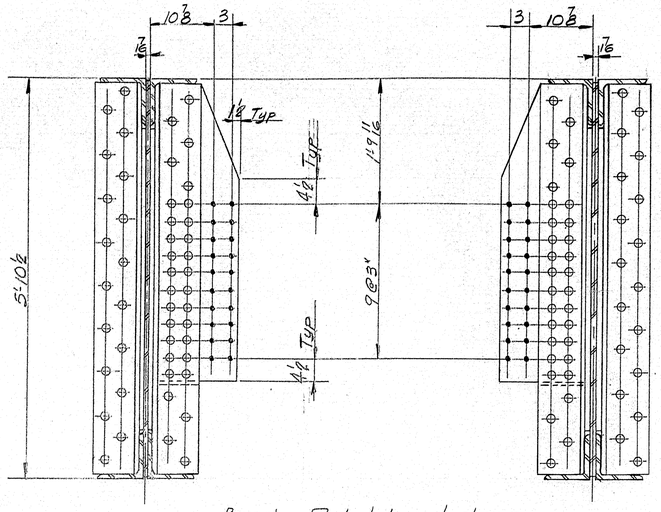
SHIM A 1/4" Thick 150 Req'd.
Do B 1/8" Do 150 Req'd.
Do C 1/16" Do 300 Req'd.

ROADWAY & SIDEWALK JOINT DETAILS and FRAMING PLAN
Approved 5-22-59
Bancroft & E. Martin Rolling Mills Company
South Portland 7, Maine
INTERSTATE #95 OVER MESSALONSKEE STREAM
WATERVILLE, MAINE
CUSTOMER Cianchette Brothers
DESIGNER The Clarkeson Engr Co.
ORDER NO. Verbal
DWG. NO. 9-60-S13

DRAWN	4-30-59	HBM
REVISION		
REVISION		
REVISION		

77-155

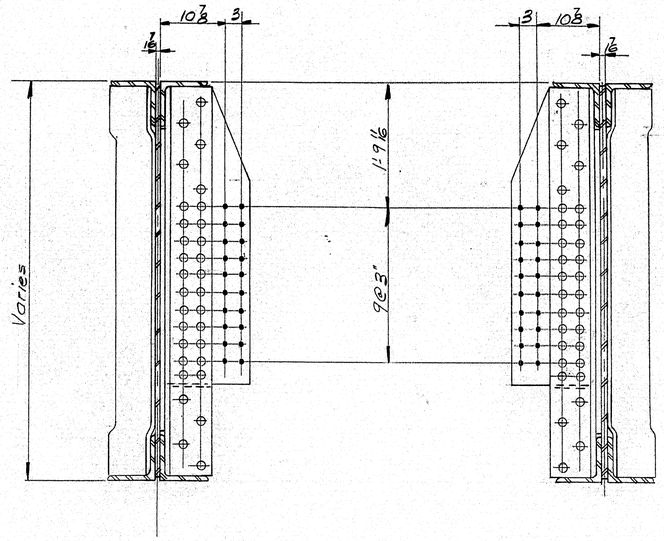




Bearing Pedestals not shown.

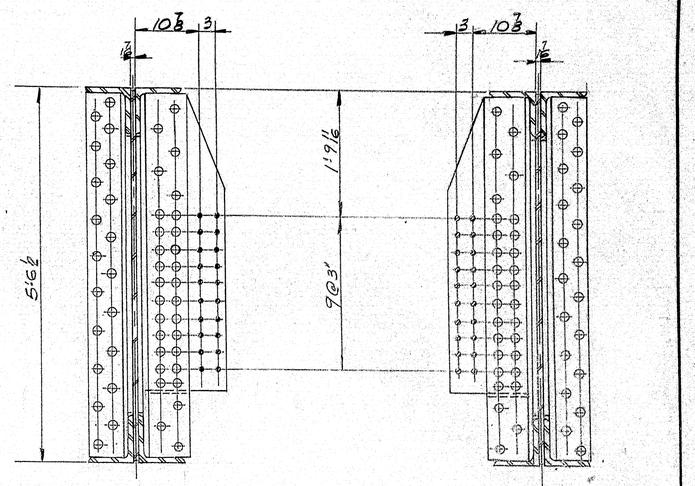
SECTION "1-1"

SECTION "2-2"



SECTION "3-3"

SECTION "4-4"



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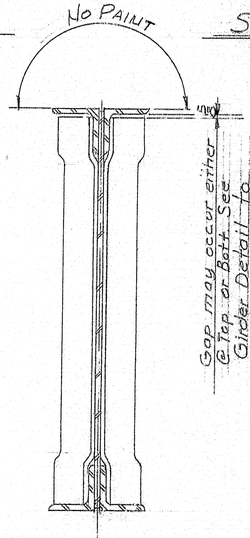
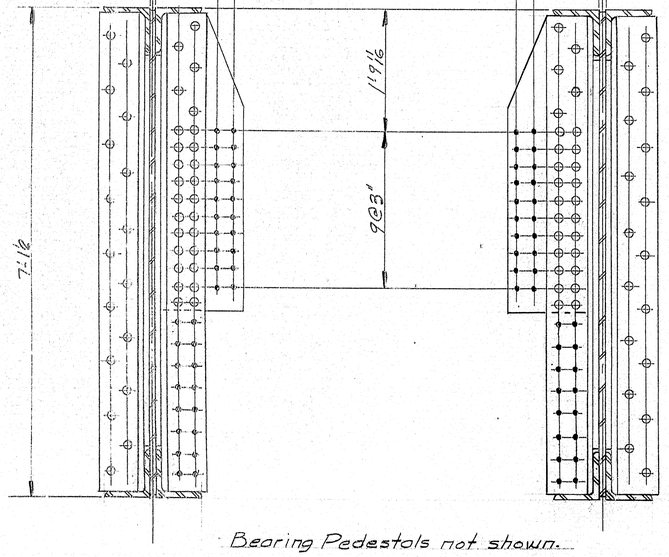


SECTION 10-10

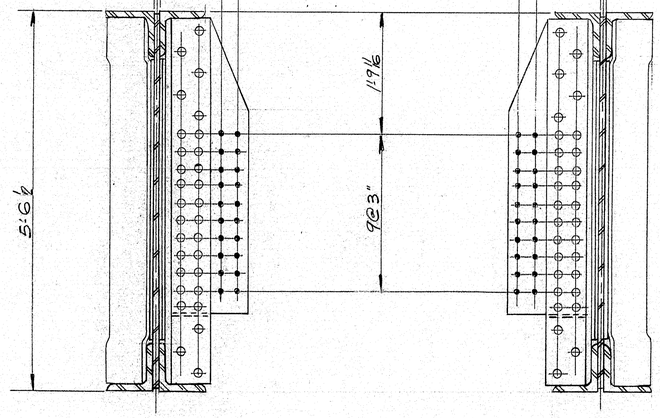
TYPICAL SECTION
@ INTERMEDIATE STIFFENERS



Bearing Pedestals not shown.

SECTION "5-5"

SECTION "6-6"



SECTION "7-7"

SECTION "8-8"

COVER PLATES NOT SHOWN

TYPICAL SECTIONS

Bancroft & Martin Rollings Mills Company
South Portland 7, Maine

INTERSTATE #95-OVER
MESSALONSKEE STREAM
WATERVILLE, MAINE

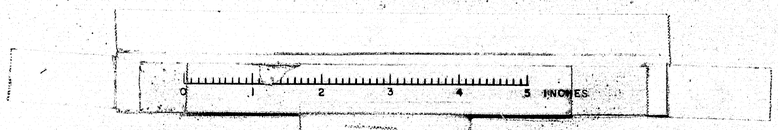
CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO

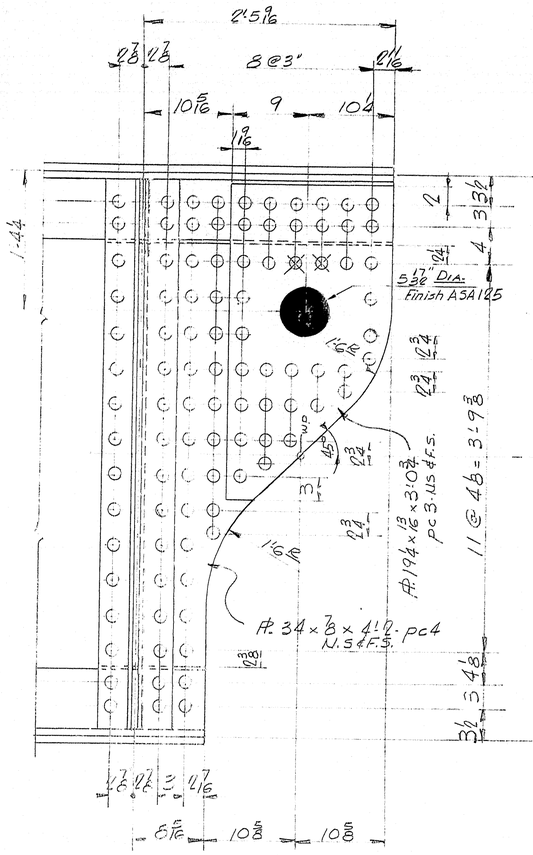
ORDER NO. VERBAL | DWG. NO. 9-60-S14

DRAWN	6-19-59	J.P.F.
REVISION	9-24-59	J.P.F.
REVISION		
REVISION		

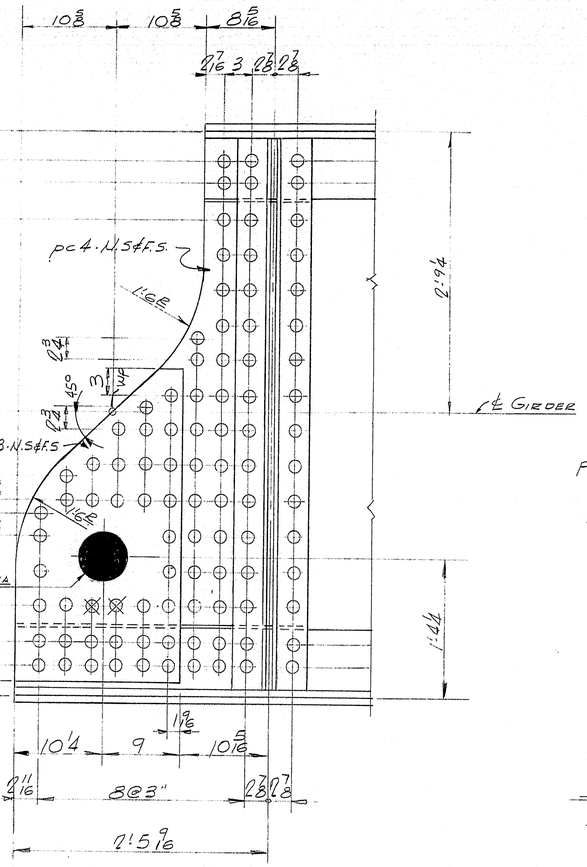
APP 9-22-59

77-156

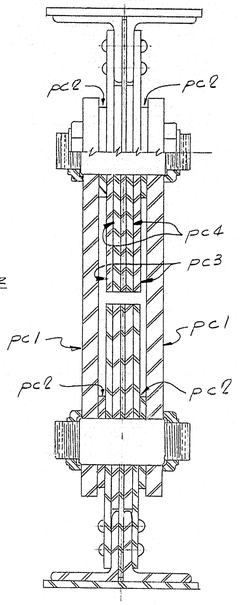




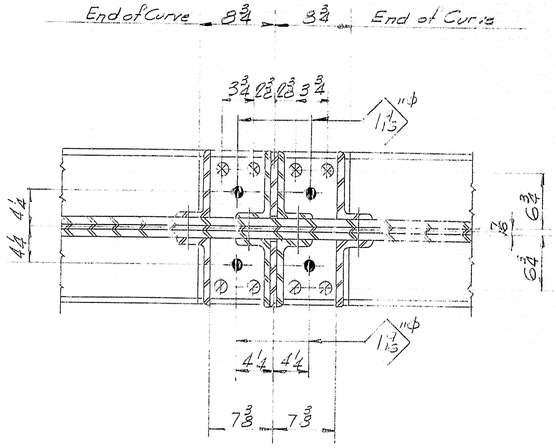
DETAIL "B"



DETAIL "C"



SECTION THROUGH PIN CONN.



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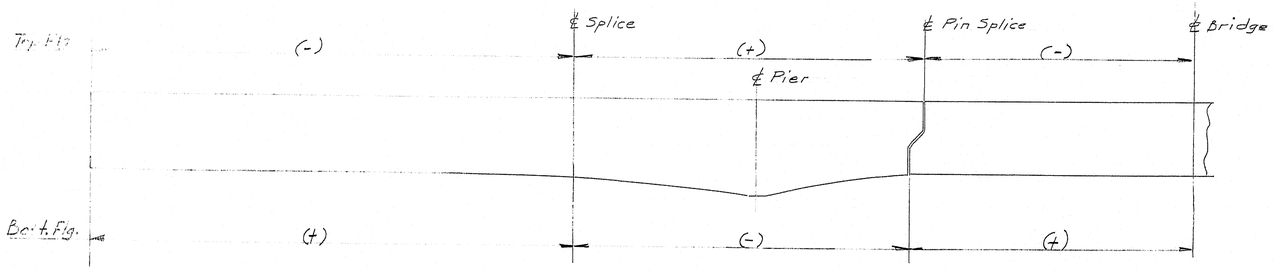


STRESS DIAGRAM

GENERAL NOTES

1.) In steel thicker than 3/4", holes shall be sub-punched or sub-drilled 1/16" smaller and after assembling reamed 1/16" larger or drilled from the solid to 1/16" larger than the nominal diameter of the rivets.
2.) Open holes are for Hi-Tensile Bolts, they are to be free from burrs and there shall be no paint on any surface within 3" of such open holes
3.) Holes in field splices of continuous girders to be sub-punched (or sub-drilled) and reamed while assembled in the shop and connecting parts to be match marked & bolted for shipment.
4.) Bearing stiffeners to have ends milled to secure an even bearing against flange angles.
5.) Holes for Bearing Pedestals to be Drilled to Template.

SHOP CONN: 7/8" ϕ Rivets
FIELD CONN: 7/8" ϕ H.S. Bolts.
PAINT: Shop coat, per State of Maine Specs.

APP'D 7-28-59

TYPICAL DETAILS

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

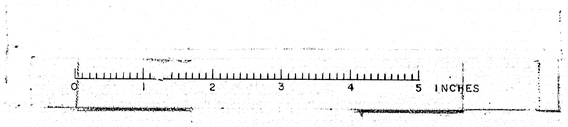
INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

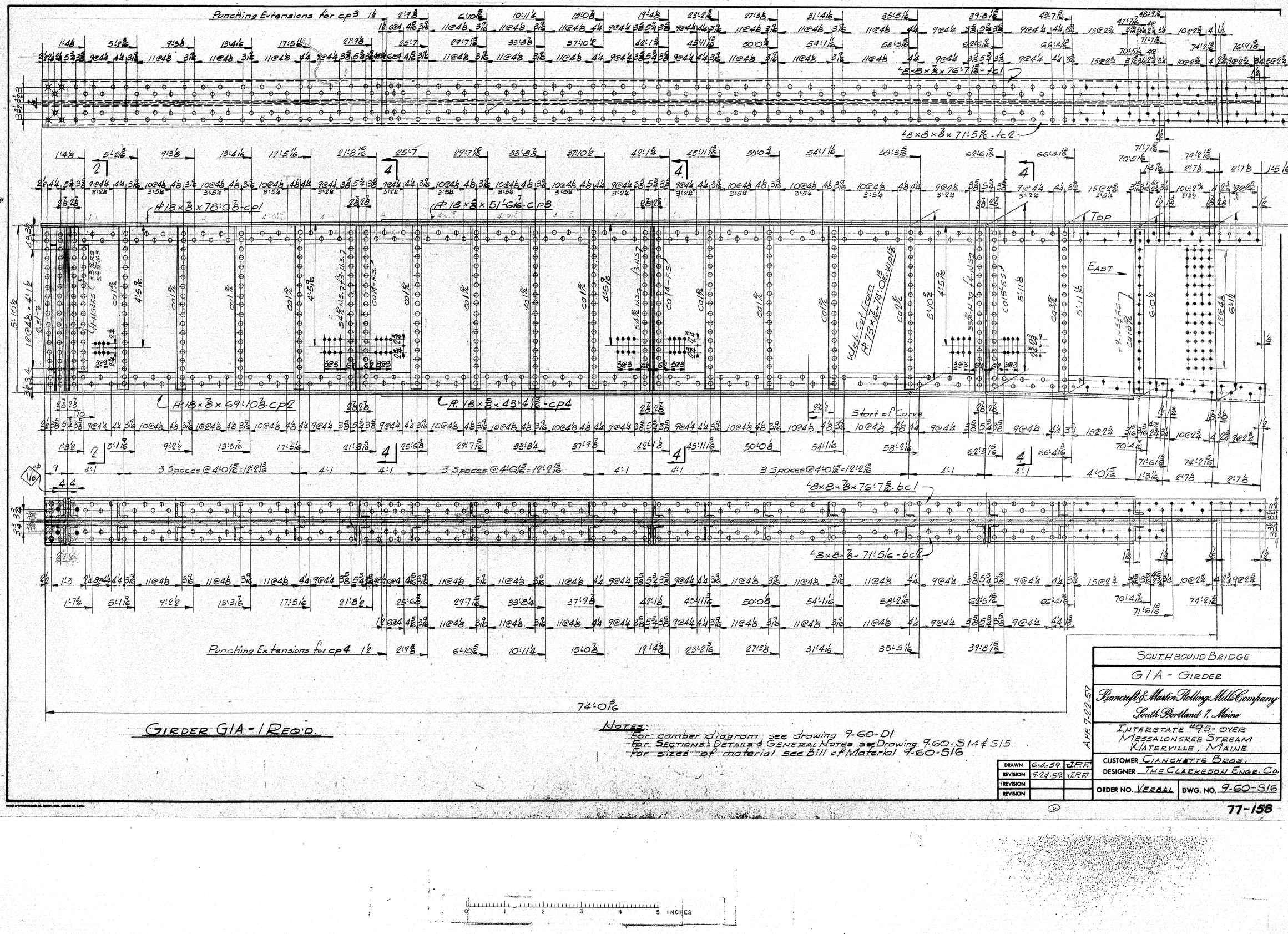
CUSTOMER Clairchette Bros.
DESIGNER The Clarkeson Engr'g Co.

DRAWN	6-22-59	J.P.F.
REVISION	9-24-59	J.P.F.
REVISION		
REVISION		

ORDER NO. VERBAL | DWG. NO. 9-60-S15

77-157





GIRDER G1A - 1 REQ'D.

NOTES:
For camber diagram, see drawing 9-60-D1
For Sections & Details & General Notes see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S16

DRAWN	6-4-59	J.P.F.
REVISION	7-24-59	J.P.F.
REVISION		
REVISION		

APP. 9-22-59

SOUTHBOUND BRIDGE

G1A - GIRDER

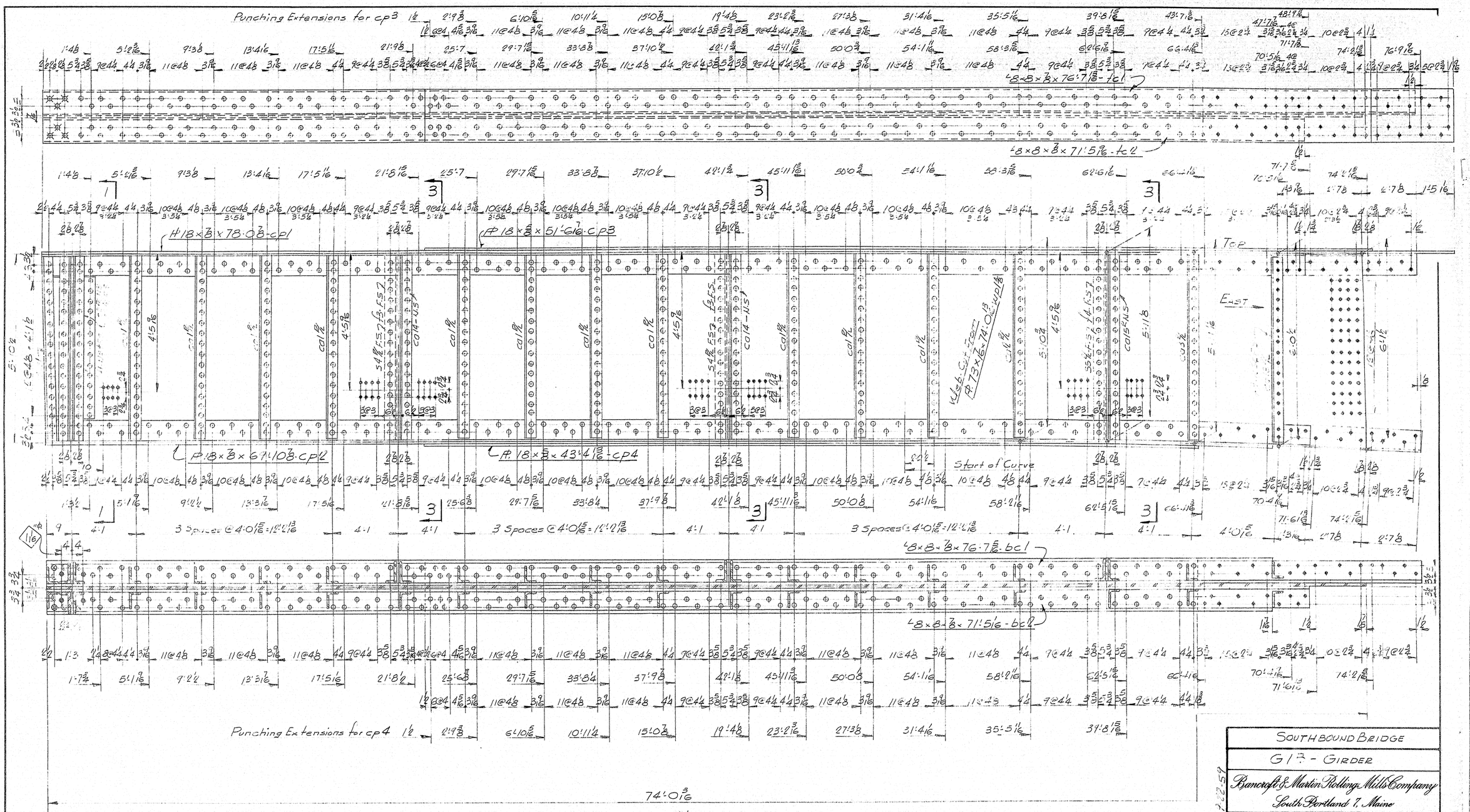
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER
MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S16

77-158



GIRDER G1B - 1 REQ'D.

NOTES:
For camber diagram, see drawing 9-60-D1
For SECTIONS - DETAILS & GENERAL NOTES see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S16

DRAWN	6-4-59	J.P.F.
REVISION	9-28-59	J.P.F.
REVISION		
REVISION		

SOUTHBOUND BRIDGE

G1? - GIRDER

Bancroft & Martin Rollings Mills Company
South Portland 7, Maine

INTERSTATE "95" OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

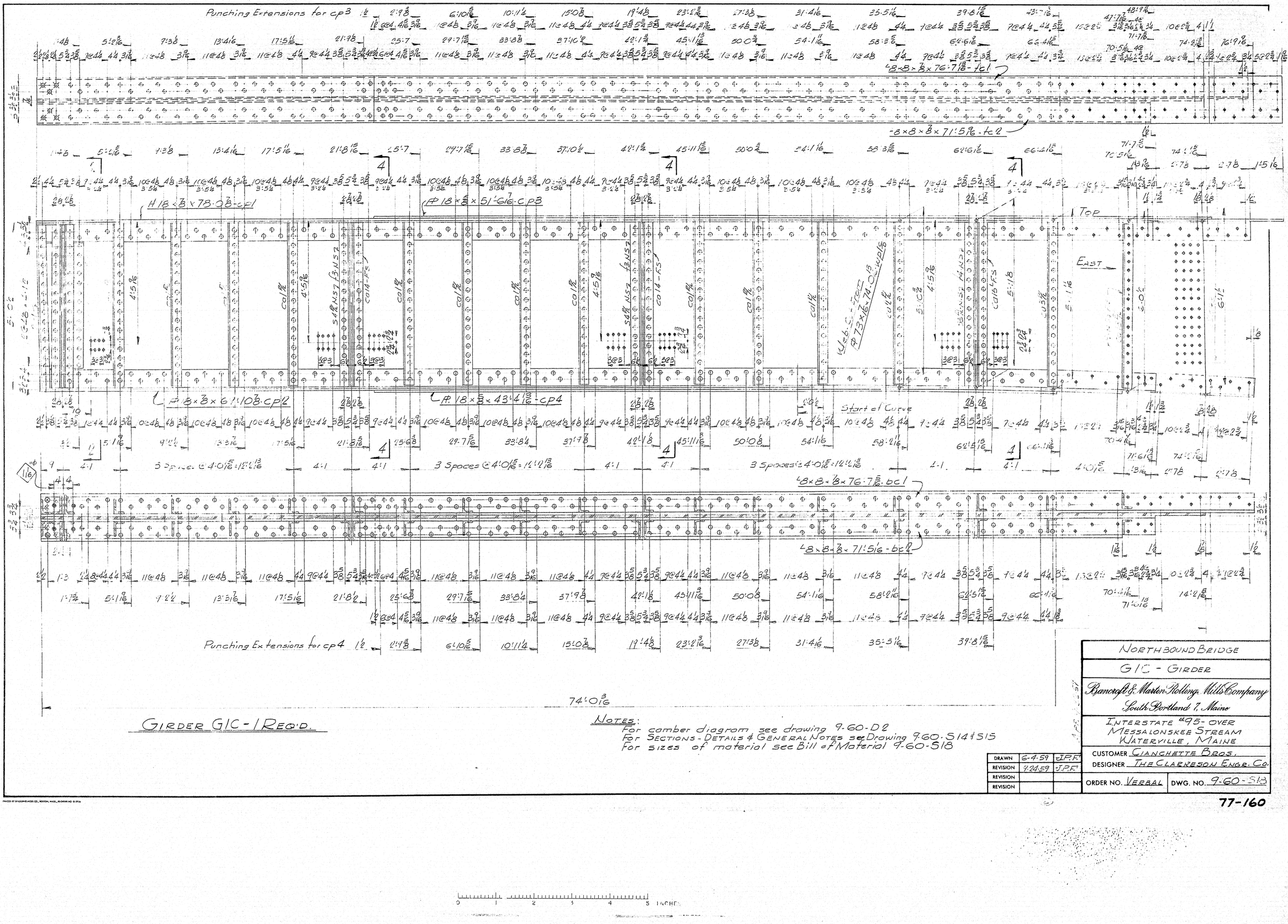
CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S17

APR 7 62 59

77-159

0 1 2 3 4 5 INCHES



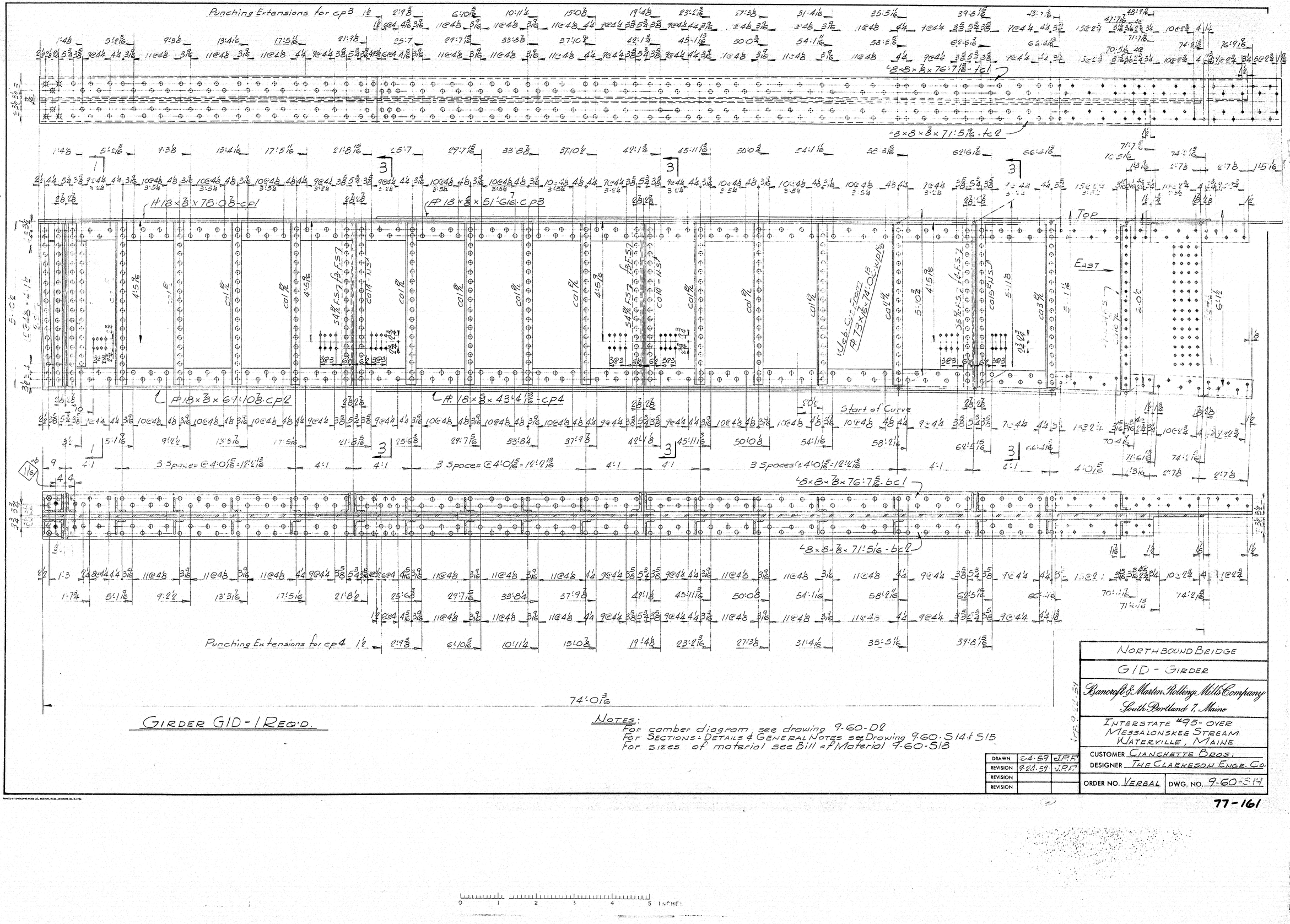
GIRDER G1C - 1 REQ'D.

NOTES:
For camber diagram, see drawing 9-60-D2
For Sections - Details & General Notes see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S18

DRAWN	6-4-59	J.P.F.
REVISION	7-24-59	J.P.F.
REVISION		
REVISION		

NORTHBOUND BRIDGE
G1C - GIRDER
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
INTERSTATE "95" OVER MESSALONSKEE STREAM
WATERVILLE, MAINE
CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.
ORDER NO. VERBAL | DWG. NO. 9-60-S13

77-160



NOTES:
For camber diagram see drawing 9-60-D2
For SECTIONS - DETAILS & GENERAL NOTES see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S18

DRAWN	6-4-59	J.P.F.
REVISION	9-21-59	J.P.F.
REVISION		
REVISION		

NORTHBOUND BRIDGE
GID - GIRDER
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
INTERSTATE "95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE
CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.
ORDER NO. VERBAL
DWG. NO. 9-60-S14

77-161

PRINTED BY SHAUGHNESSY-MORE CO., NORTON, MASS., WORKING NO. D-3926

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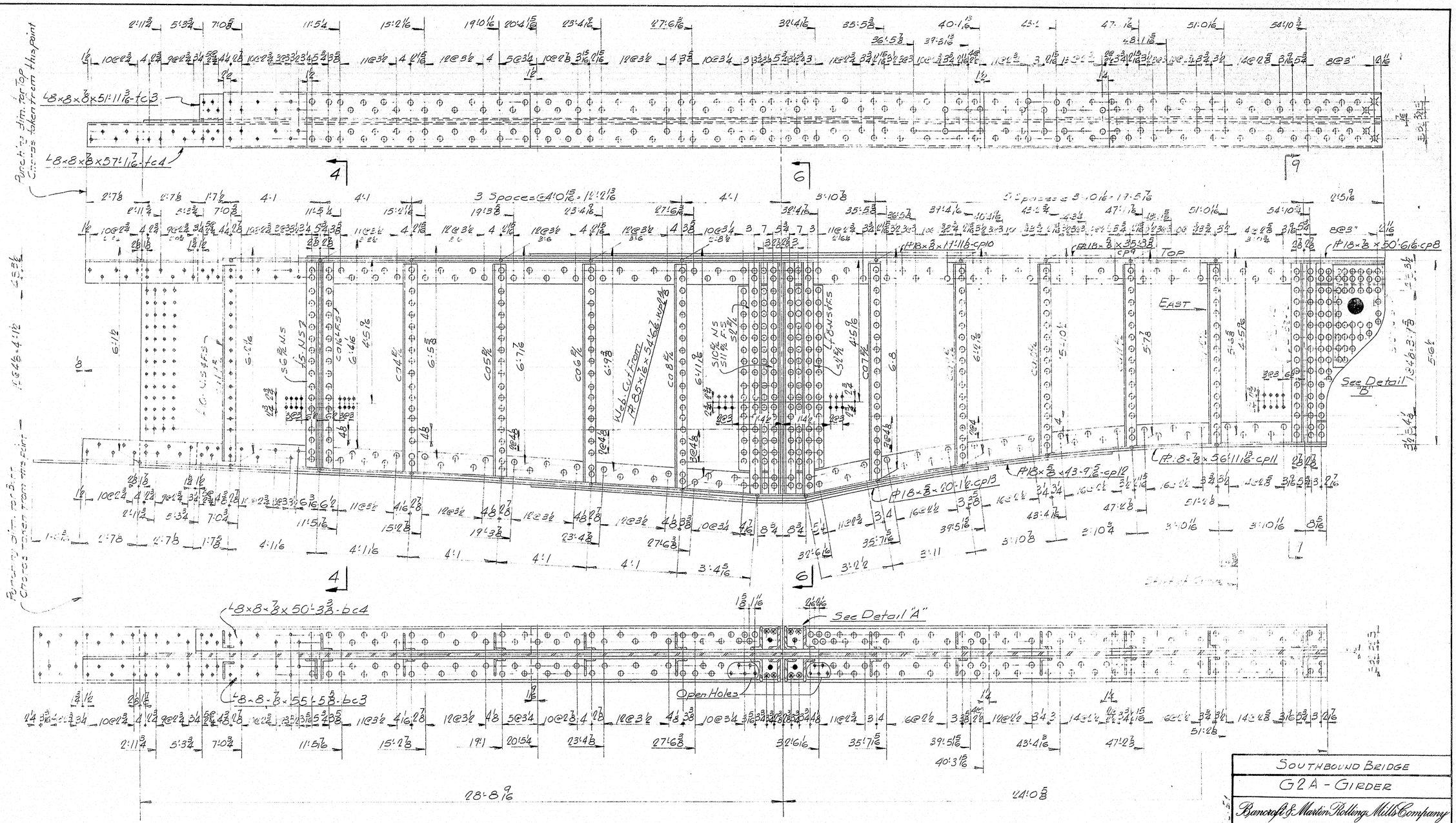

GIRDER G2A-1 REQ'D

NOTES:
For camber diagram see Drawing 9.60-D1
For SECTIONS-DETAILS & GENERAL NOTES see Drawing 9.60-S14 & S15
For sizes of material see Bill of Material 9.60-S20

DRAWN	6-10-59	J.P.F.
REVISION	9-25-59	J.P.F.
REVISION		
REVISION		

SOUTHBOUND BRIDGE

G2A - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S20

77-162

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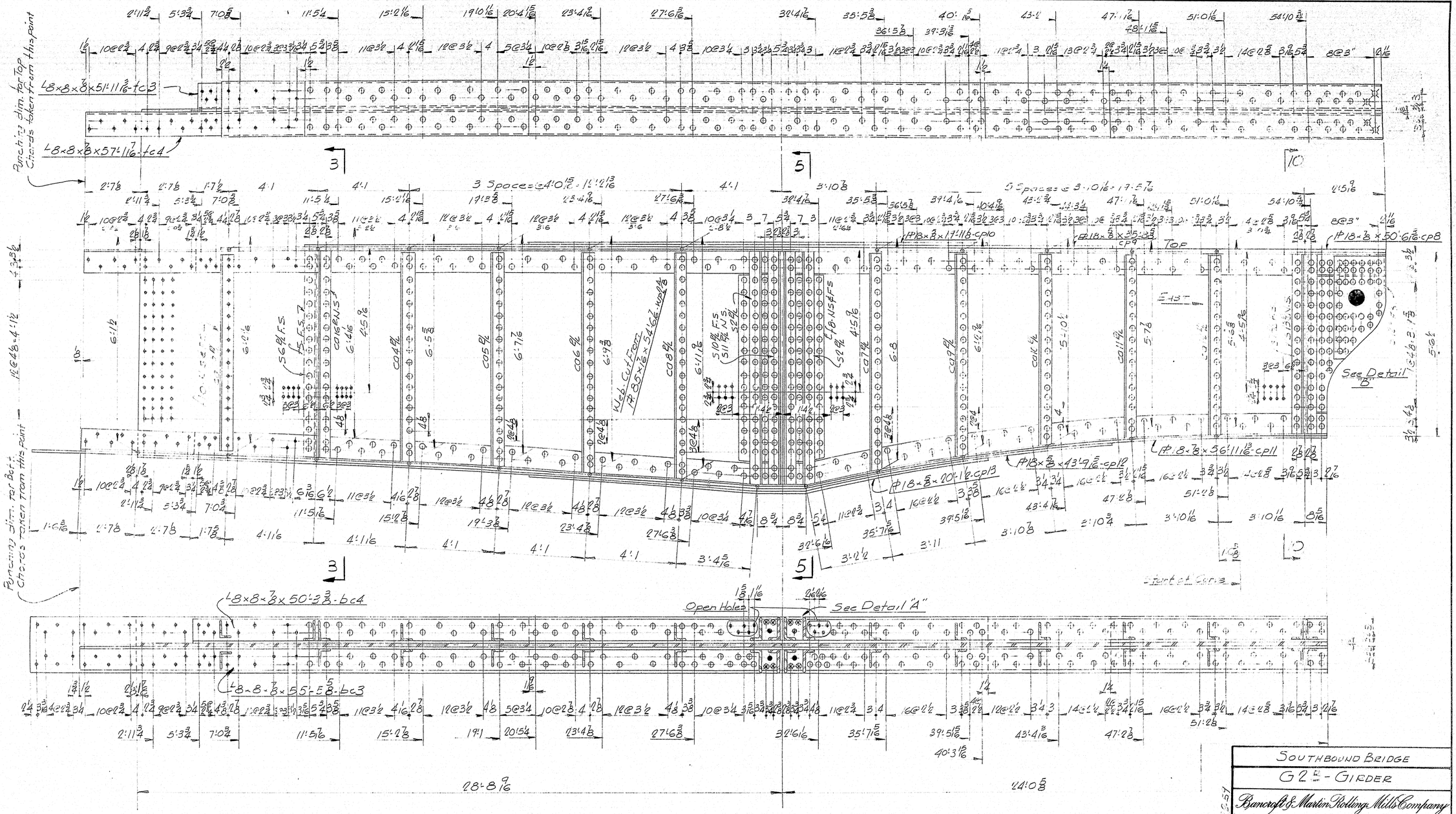


GIRDER G2B-1 REQ'D

NOTES:
For camber diagram see Drawing 9-60-D1
For SECTIONS-DETAILS & GENERAL NOTES see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S20

DRAWN	6-10-59	J.P.F.
REVISION	9-25-59	J.P.F.
REVISION		
REVISION		

SOUTHBOUND BRIDGE

G2B - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

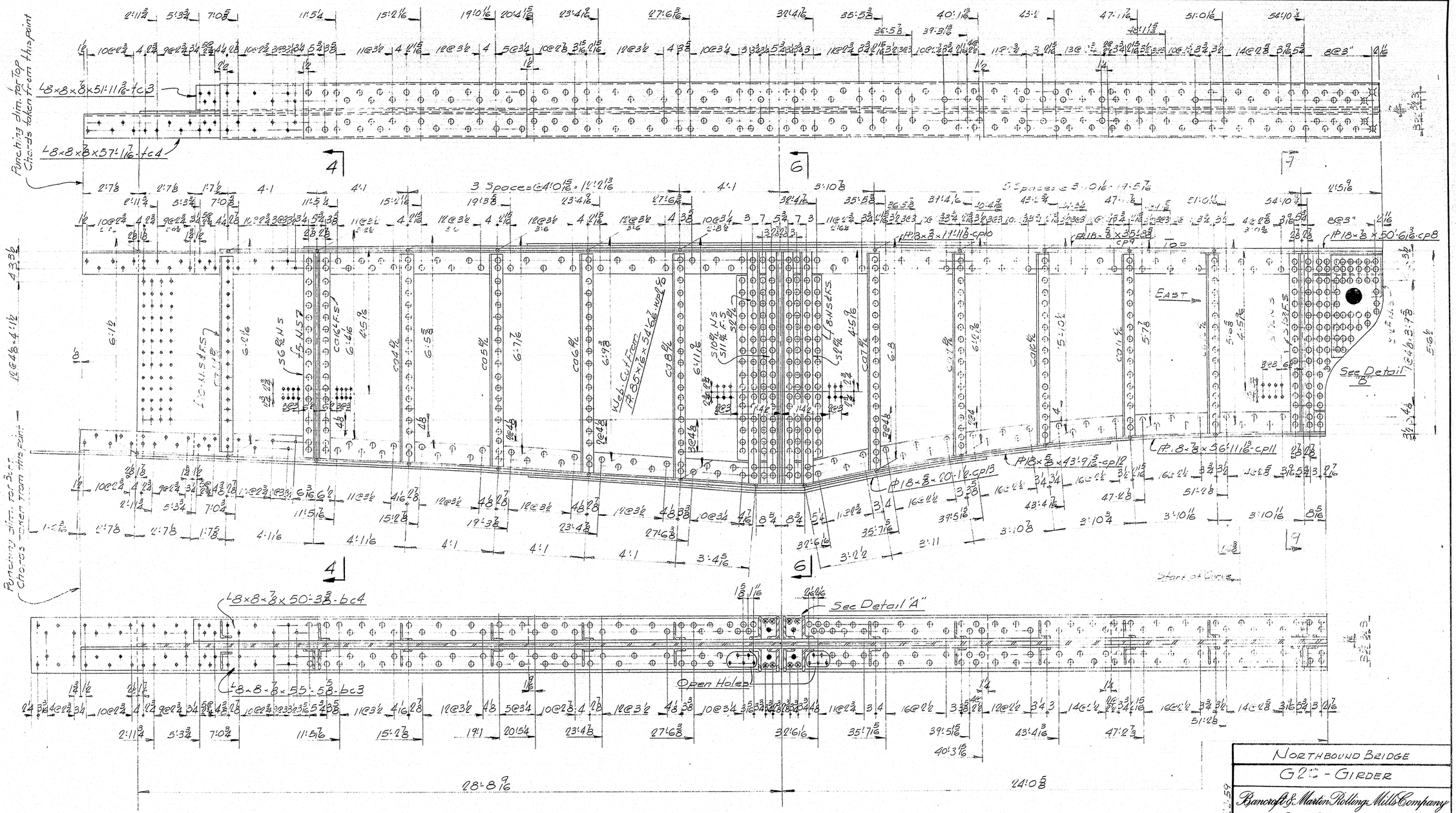
CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S21

APP. 1-25-60

77-163

PRINTED BY BRUNSWICK-HOME CO., NORTON, MASS., IN ORDER NO. D 1932



GIRDER G2C - 1 REQ'D

NOTES:
For camber diagram see Drawing 9.60-D2
For SECTIONS - DETAILS & GENERAL NOTES see Drawing 9.60-S14 & S15
For sizes of material see Bill of Material 9.60-S22

DRAWN	6-10-59	J.P.F.
REVISION	7-25-59	J.P.F.
REVISION		
REVISION		

NORTHBOUND BRIDGE
G2C - GIRDER
Bancroft & Martin Rollings Mills Company
South Portland 7, Maine
INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE
CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR CO.
ORDER NO. VERBAL
DWG. NO. 9-60-S12

77-164

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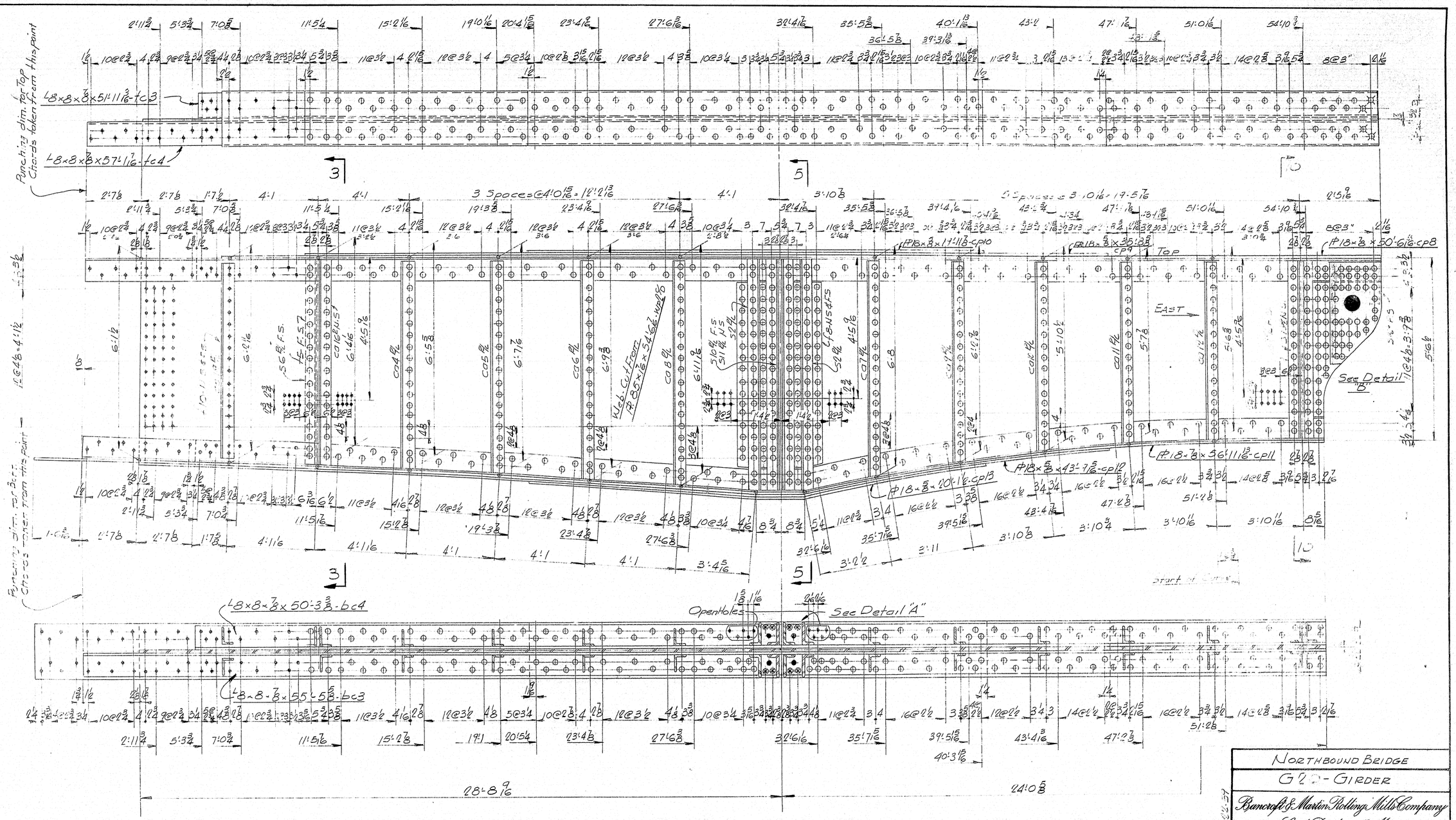


GIRDER G2D-1 REQ'D

NOTES:
1. For camber diagram see Drawing 9-60-D1
2. For SECTIONS-DETAILS & GENERAL NOTES see Drawing 9-60-S14 & S15
3. For sizes of material see Bill of Material 9-60-S22

DRAWN	6-10-59	J.P.F.
REVISION	7-26-59	J.P.F.
REVISION		
REVISION		

NORTHBOUND BRIDGE

G2D - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

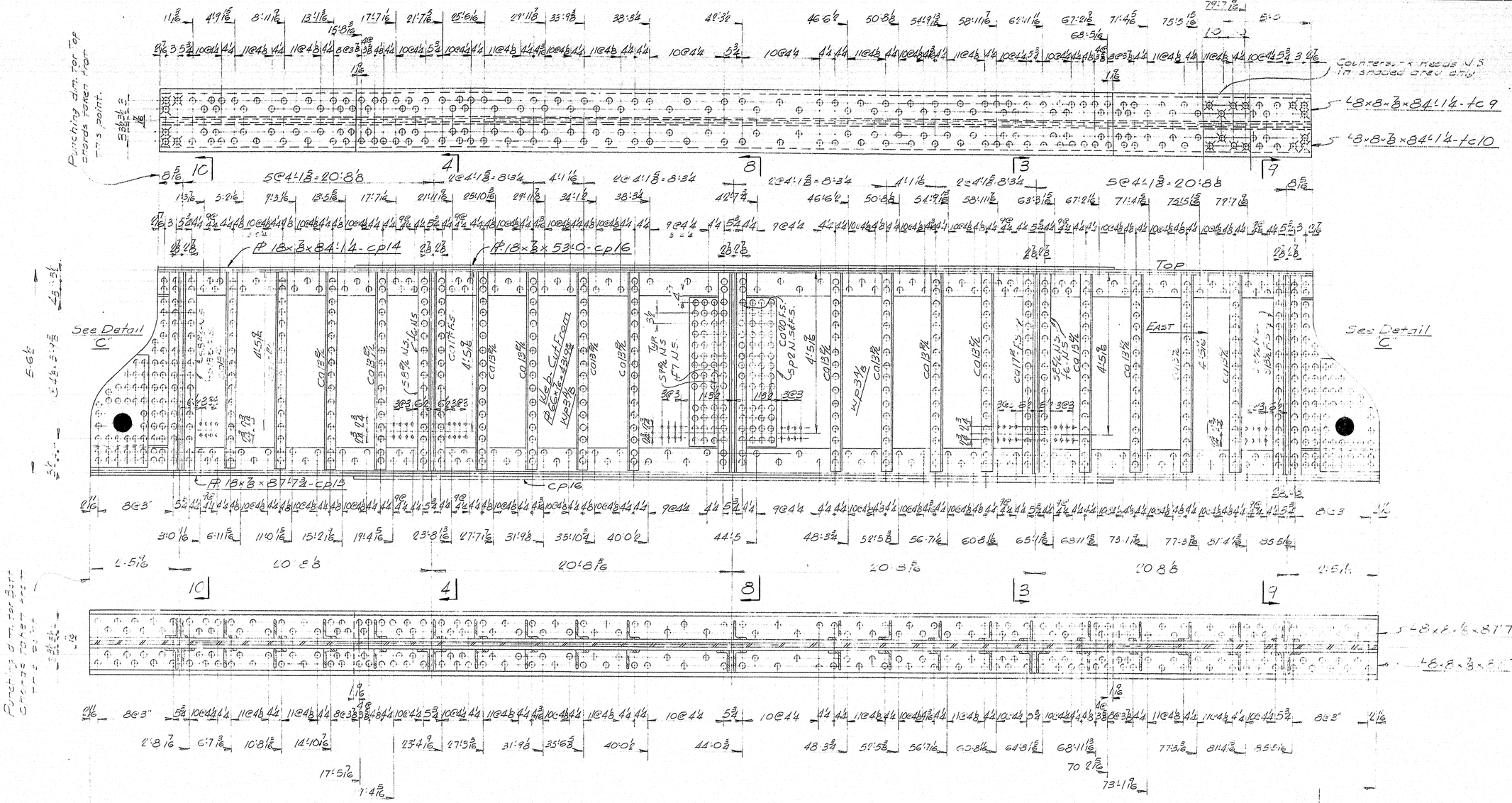
CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S23

APP'D 8-26-59

77-165

PRINTED BY SHADOMO HOSE CO., BOSTON, MASS., IN ORDER NO. G-2916



GIRDER G3A - 1 REQ'D

NOTES:
For camber diagram see Drawing 9-60-D1
For SECTIONS · DETAILS & GENERAL NOTES see Drawings 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S24

SOUTHBOUND BRIDGE

G3A - GIRDER

Bancroft & Morton Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR CO

ORDER NO. VERBAL | DWG. NO. 9-60-S24

DRAWN	6-17-59	J.P.F.
REVISION	7-30-59	J.P.F.
REVISION		
REVISION		

77-166

PRINTED BY STANDISH-HAYES CO., BOSTON, MASS., IN-ORDER NO. G-3731

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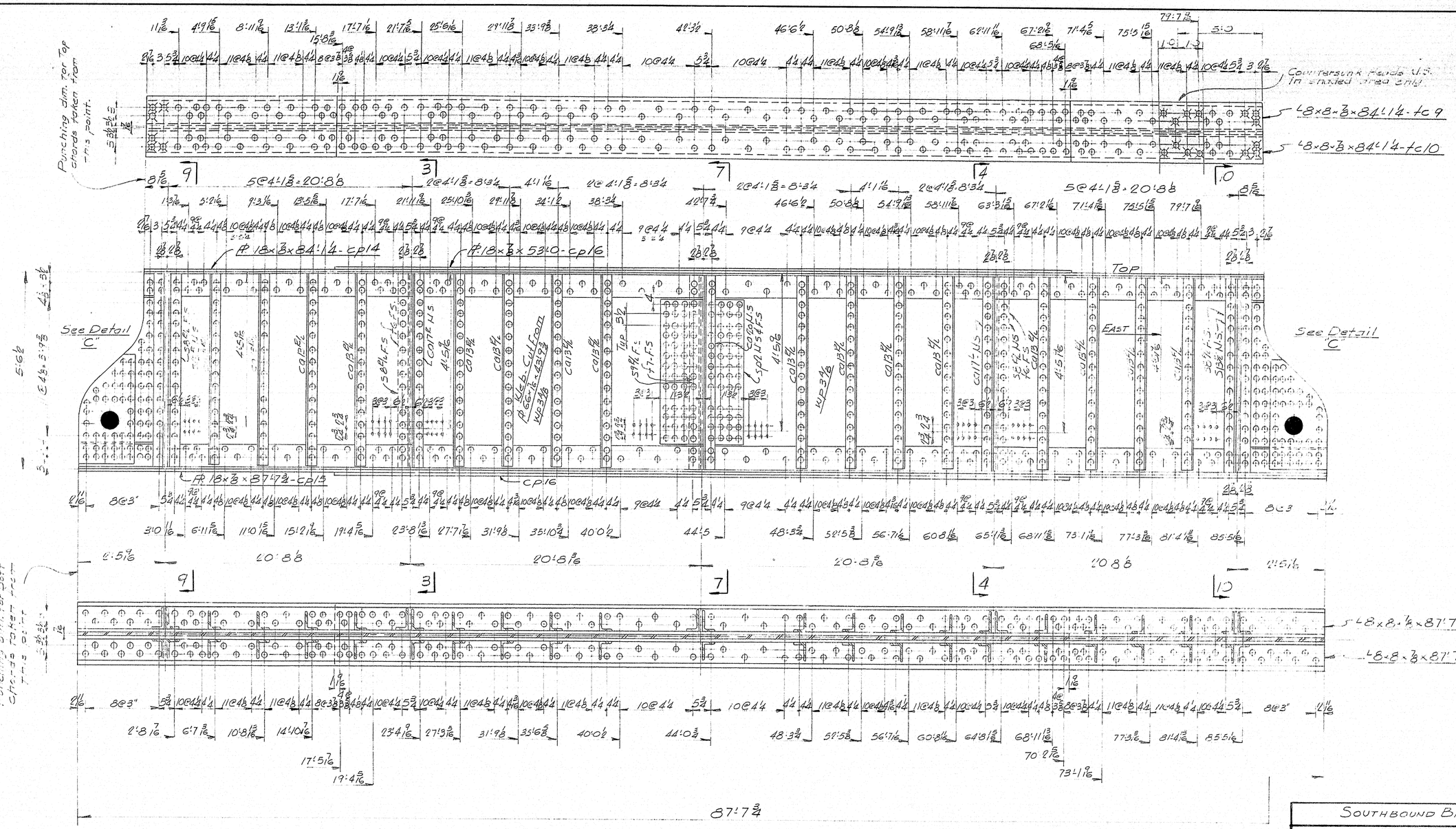


GIRDER G3B-1 REQ'D

NOTES:

For camber diagram see Drawing 9-60-D1
For SECTIONS-DETAILS & GENERAL NOTES see Drawings 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S24

DRAWN	6-17-59	J.P.F.
REVISION	2-20-59	J.P.F.
REVISION		
REVISION		

SOUTHBOUND BRIDGE

G3B-GIRDER

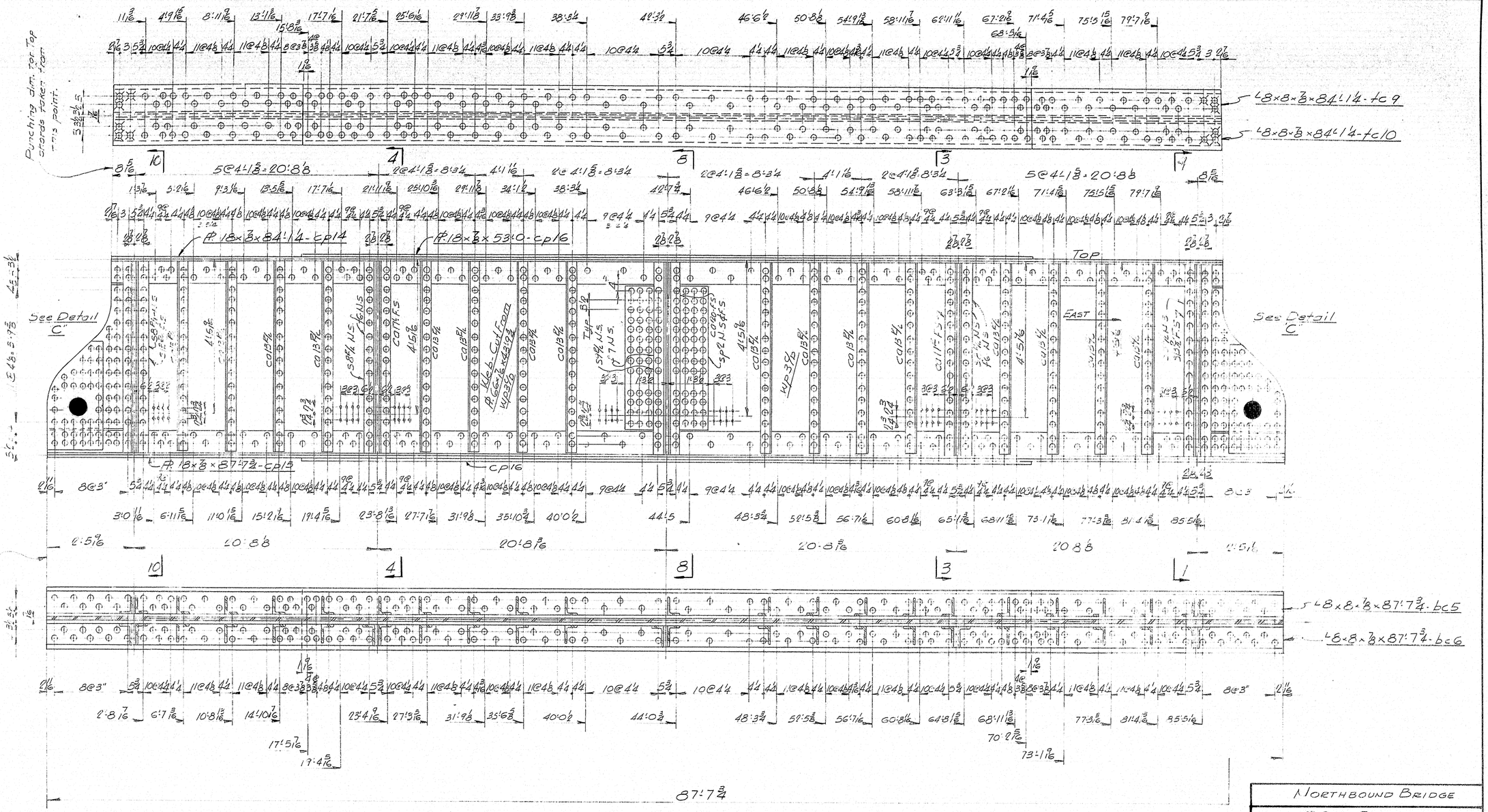
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR CO

ORDER NO. VERBAL | DWG. NO. 9-60-S25

77-167



GIRDER G3C-1 REQ'D

NOTES:

For camber diagram see Drawing 9-60-D2
For SECTIONS - DETAILS & GENERAL NOTES see Drawings 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S26

DRAWN	6-17-59	J.P.F.
REVISION	9-30-59	J.P.F.
REVISION		
REVISION		

NORTHBOUND BRIDGE

G3C-GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

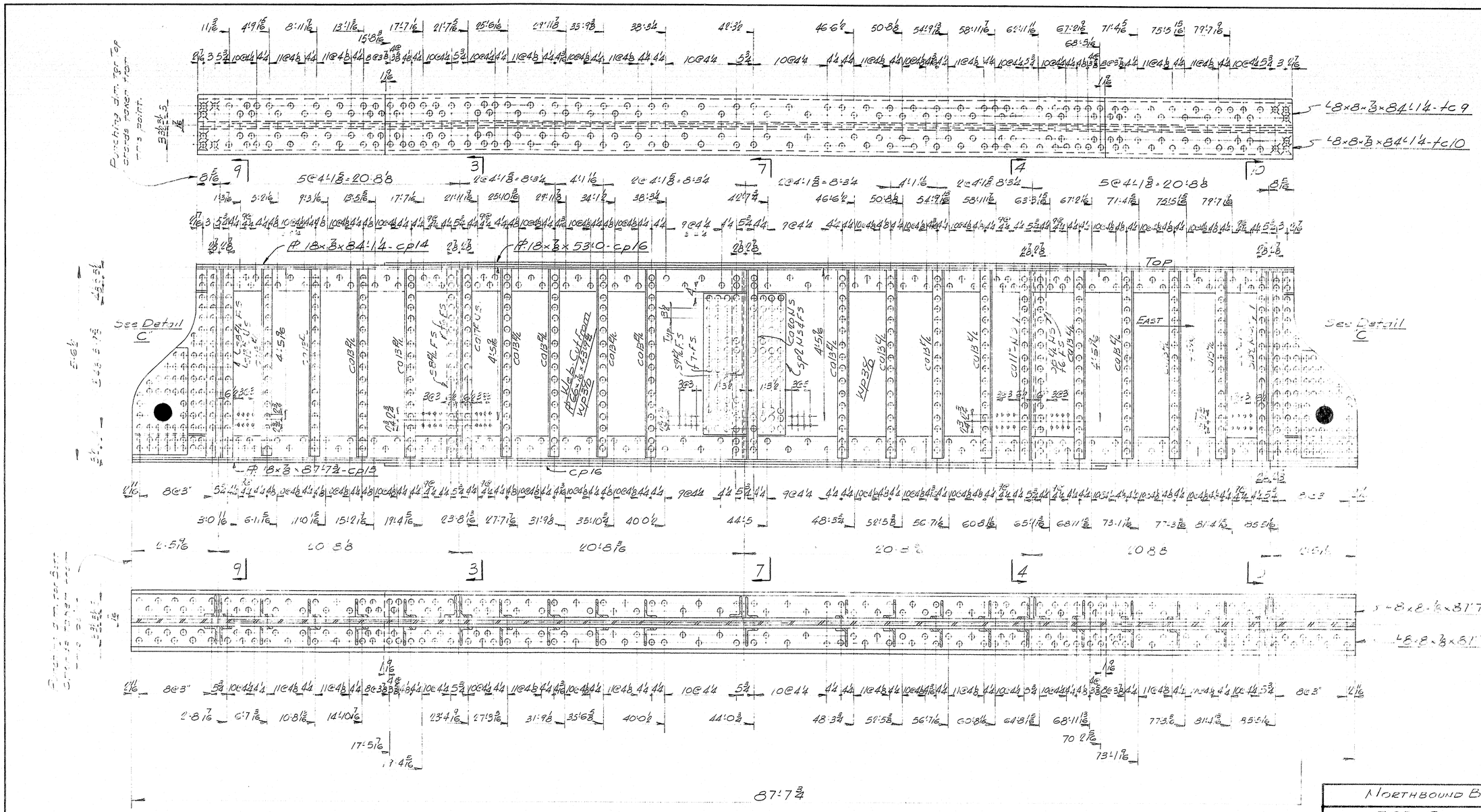
INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S26

77-168

0 1 2 3 4 5 INCHES


Bunching dim. for top chords taken from this point.
9
3
7
4
1
5@4'-1⅞"=20'-8⅞"
4'-1⅛"
5@4'-1⅞"=20'-8⅞"
L8×8×⅞×84'-1/4-fc9
L8×8×⅞×84'-1/4-fc10
PL 18×⅞×84'-1/4-cp14
PL 18×⅞×53'-0-cp16
PL 18×⅞×87'-7¾-cp15
cp16
Top
East
See Detail C
See Detail C
Web Cut from W36×194
W36×135
W36×150
W36×160
W36×182
W36×230
W36×256
W36×280
W36×300
W36×361
W36×393
W36×441
W36×487
W36×529
W36×652
W36×723
W36×798
W36×848
W36×925
W36×1008
W36×1150
W36×1256
W36×1361
W36×1439
W36×1527
W36×1652
W36×1734
W36×1848
W36×1941
W36×2041
W36×2160
W36×2281
W36×2393
W36×2521
W36×2652
W36×2783
W36×2914
W36×3045
W36×3177
W36×3308
W36×3439
W36×3570
W36×3702
W36×3833
W36×3964
W36×4095
W36×4227
W36×4358
W36×4489
W36×4620
W36×4752
W36×4883
W36×5014
W36×5145
W36×5277
W36×5408
W36×5539
W36×5670
W36×5802
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W36×6195
W36×6327
W36×6458
W36×6589
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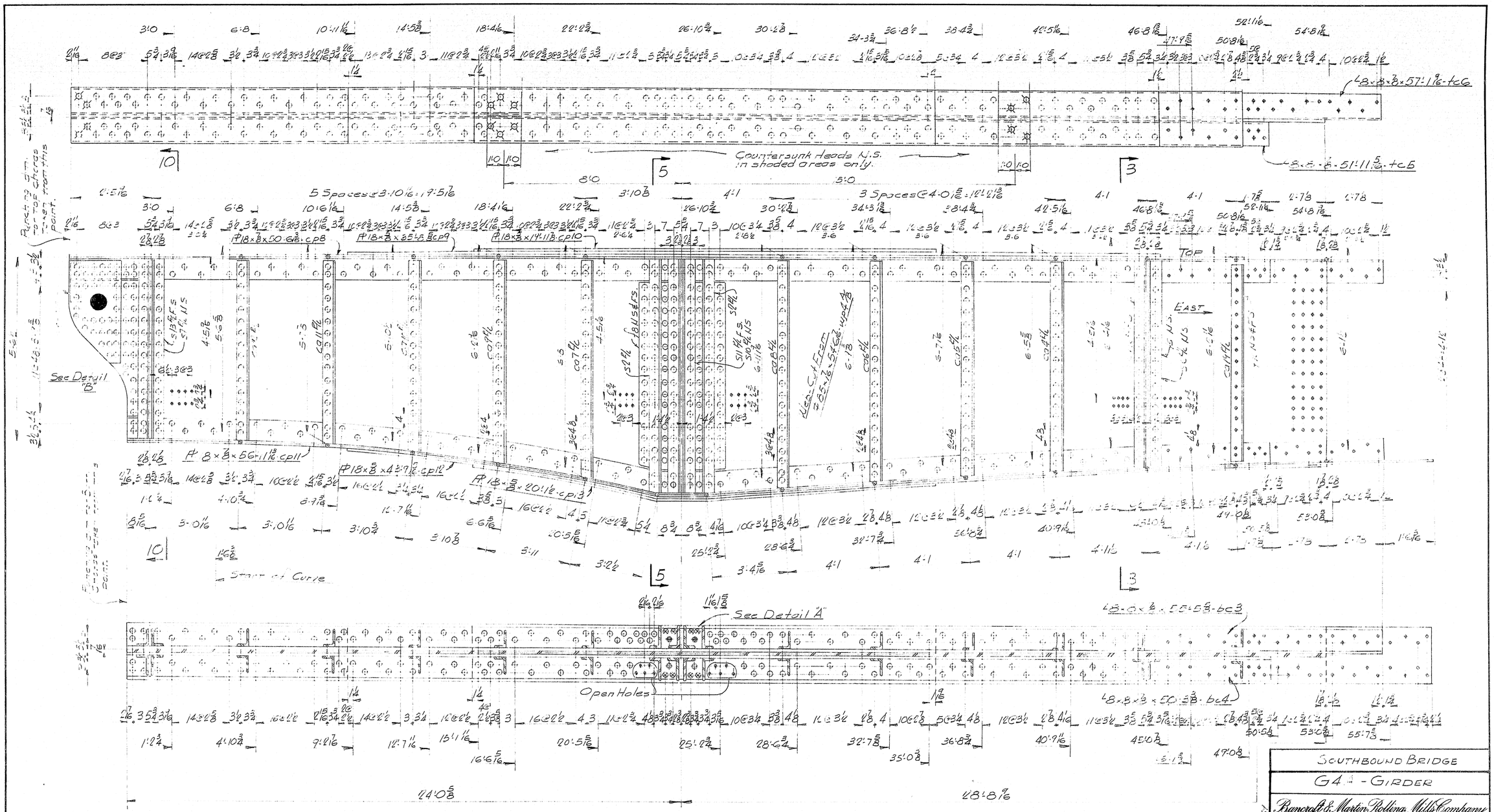
W36×7639
W36×7770



GIRDER G4A - 1 REQ'D

NOTES:
For camber diagram see Drawing 9-60-D1
For SECTIONS - DETAILS & GENERAL NOTES see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S28

DRAWN	6-11-59	JPP
REVISION	7-31-59	JPP
REVISION		
REVISION		

SOUTHBOUND BRIDGE

G4A - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

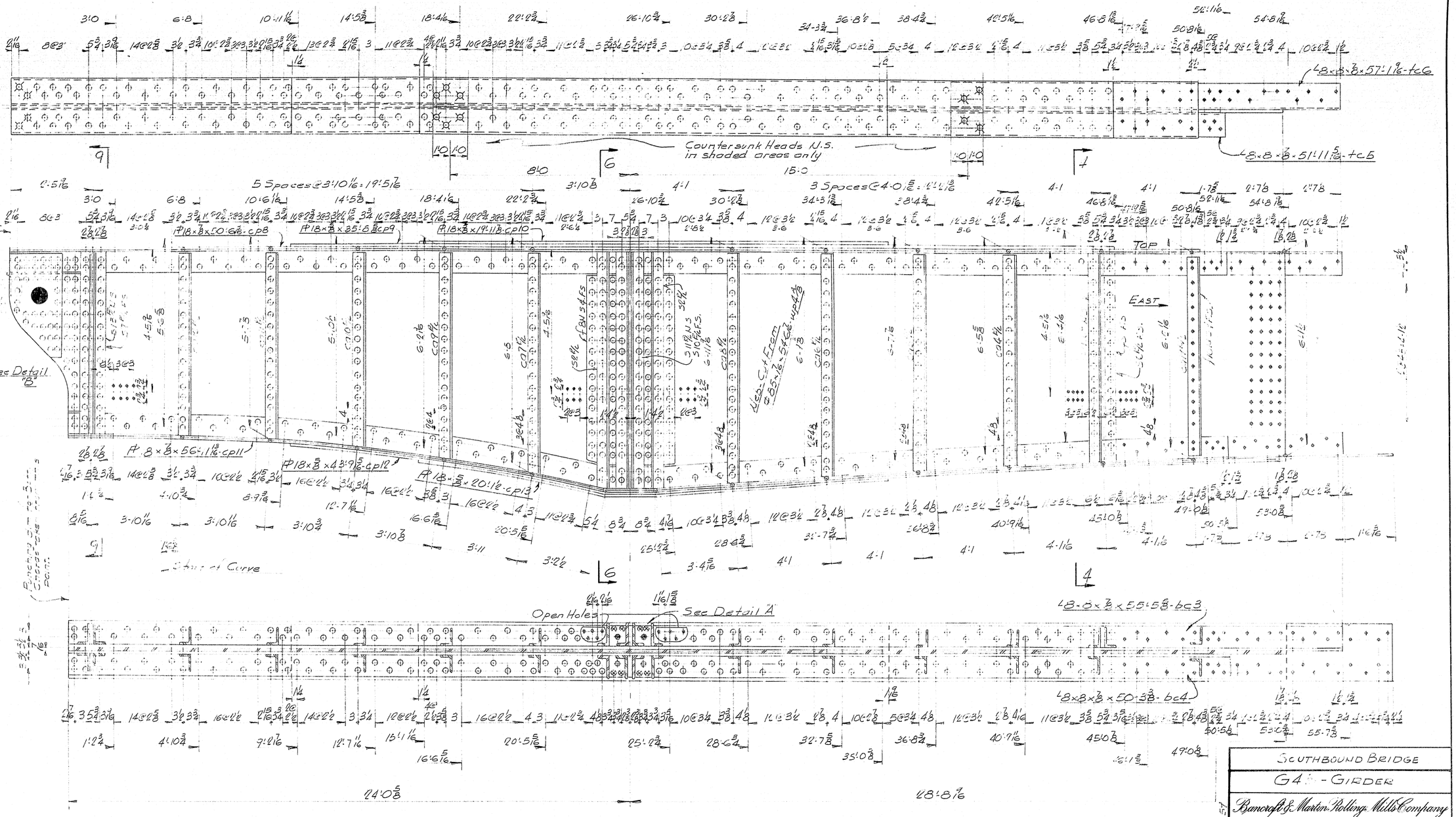
INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S13

77-170

PRINTED BY SHAWMUT-HOSE CO., BOSTON, MASS., IN UNION NO. D-3934



GIRDER G4B - 1 REQ'D

NOTES:

For camber diagram see Drawing 9-60-D1
For Sections - Details & General Notes see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S28

DRAWN	6-11-59	J.P.F.
REVISION		
REVISION		
REVISION		

SOUTHBOUND BRIDGE

G4[illegible] - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

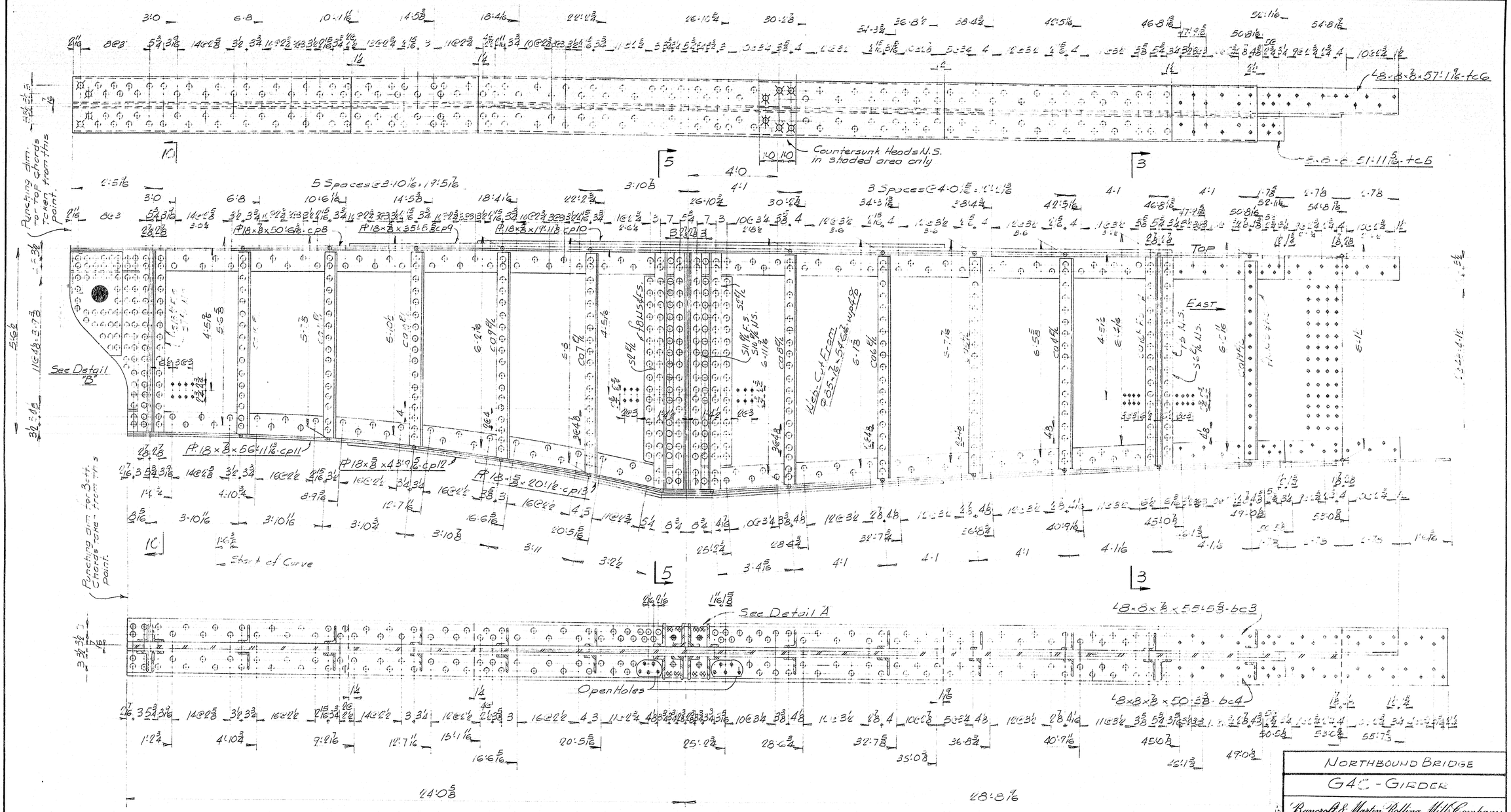
INTERSTATE #95 - OVER
MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S[illegible]

77-171

PRINTED BY SHAWMUT-HOUSE CO., BOSTON, MASS. PB ORDER NO. 0-3934



GIRDER G4C - 1 REQ'D

NOTES:

For camber diagram see Drawing 9-60-D2
For SECTIONS - DETAILS & GENERAL NOTES see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S30

DRAWN	6-11-59	JPH
REVISION	7-20-59	JEF
REVISION		
REVISION		

NORTHBOUND BRIDGE

G4C - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

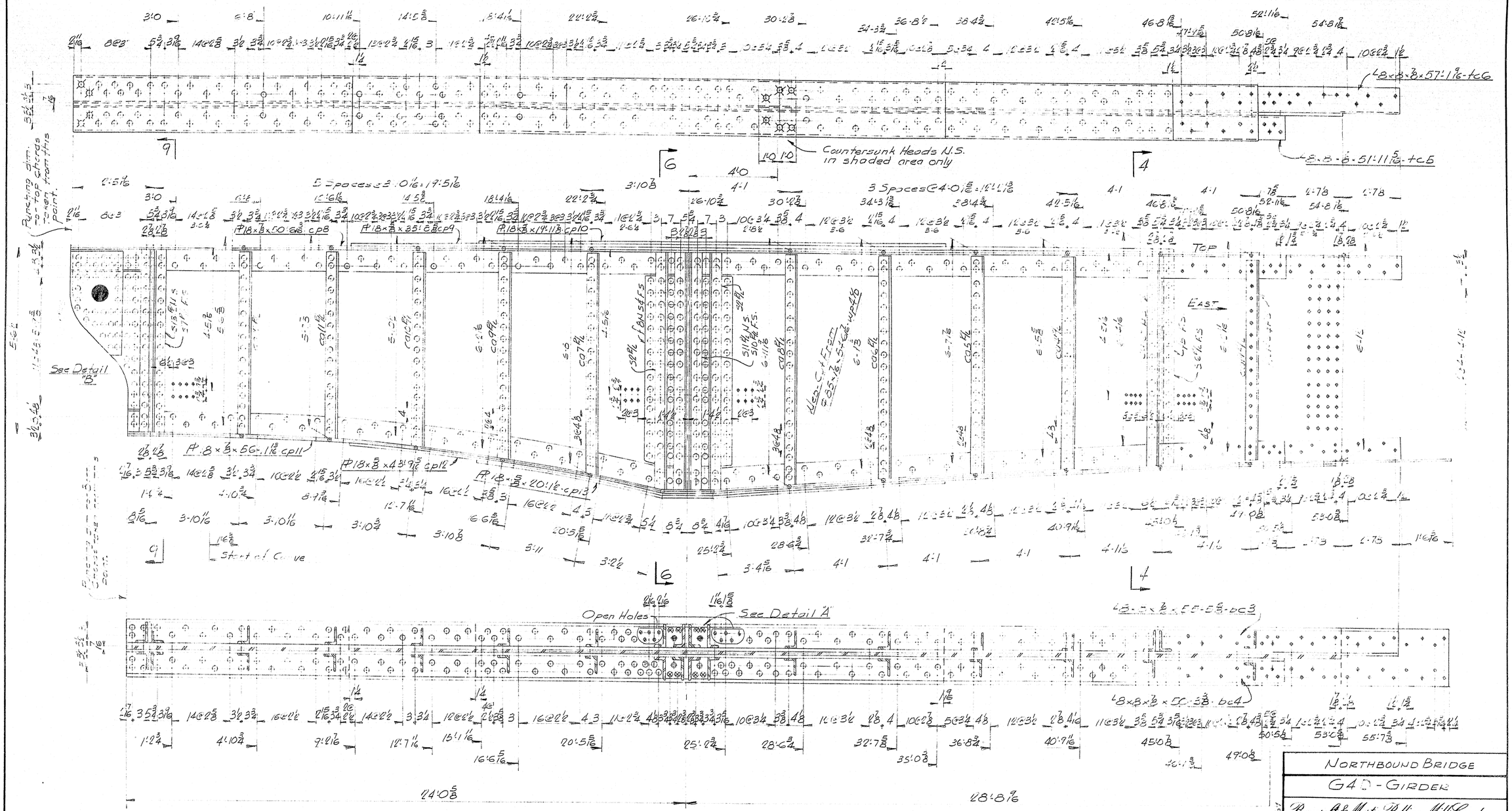
INTERSTATE #95 - OVER
MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER GIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S30

77-172

PRINTED BY SANBORN-MOSS CO., BOSTON, MASS., PLORDER NO. 12-3934



NOTES:

For camber diagram see Drawing 9-60-D2
For Sections-Details & General Notes see Drawing 9-60-S14 & S15
For sizes of material see Bill of Material 9-60-S30

DRAWN	6-11-57	J.P.F.
REVISION	9-6-57	J.P.F.
REVISION		
REVISION		

NORTHBOUND BRIDGE

G4D-GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95-OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER Cianchette Bros.
DESIGNER The Clarkeson Engr. Co.

ORDER NO. Verbal | DWG. NO. 9-60-S31

77-173

Punching Dim. for cpl taken from this point

Punching Dim for Top Chords taken from this point

Punching Dim. for Bott. Chords taken from this point

Web cut from #73×16×74'0 3/16 - W25B

Start of Curve

L8×8×⅞×71'-5 1/16 - bc2

L8×8×⅞×76'-7 1/16 - bc1

74'-0 3/16

GIRDER G5A - 1 REQ'D.

NOTES:
For camber diagram see Drawing 9-60-D1
For Sections - Details & General Notes see Drawing 9-60-S15
For sizes of material see Bill of Material 9-60-S31

DRAWN	6-5-59	J.P.F.
REVISION	1-25-59	J.P.F.
REVISION		
REVISION		

SOUTHBOUND BRIDGE

G5A - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S32

77-174

PRINTED BY SHUMWAY-HOWE CO., BOSTON, MASS., BLUEPRINT NO. G-3732

Punching Dim for cp1 taken from this point

Punching Dim for Top Chords taken from this point

Punching Dim for Bott. Chords taken from this point

L8×8×⅞×71'-4⅞"-fc8

L8×8×⅞×76'-7 15/16"-fc7

PL 18×⅞×51'-6 7/16"-cp7

PL 18×⅞×78'-0 1/4-cp6

TOP

EAST

Web cut from PL 73"×7/16"-WS5A

54" F.S. 1/3 F.S.

PL 18×⅞×43'-4 13/16"-cp4

PL 18×⅞×61'-10⅞"-cp5

Start of Curve

L8×8×⅞×71'-5⅛"-bc2

L8×8×⅞×76'-7 15/16"-bc1

35 spaces @ 4'-0 15/16" = 12'-0 13/16"

3 Spaces @ 4'-0 15/16" = 12'-0 13/16"

74'-0 3/16"

GIRDER G5B - 1 REQ'D.

NOTES:

For camber diagram see Drawing 9-60-D1
For Sections - Details & General Notes see Drawing 9-60-S15
For sizes of material see Bill of Material 9-60-S32

DRAWN	6-5-59	J.P.F.
REVISION	7-20-59	J.P.F.
REVISION		
REVISION		

SOUTHBOUND BRIDGE

G5B - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.

DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9-60-S33

77-175

PRINTED BY SPAULDING-MOSS CO., BOSTON, MASS., PLANNER NO. D-3126

Punching Dim. for cpf taken from this point

Punching Dim. for Top Chords taken from this point

L8×8×⅞×71-4⅞-tc2

L8-8-⅞×76-7⅛-tc1

Countersunk Heads N.S. in shaded area only

L8×8×⅞×76-7⅛-bc1

L8×8-⅞×71-5⅛-bc2

PL18×⅝×51-6⅞-cp3

PL18-⅝-43-4⅜-cp4

PL 18×⅝×51-6⅞-cp5

Top

East

Start of Curve

74:0³⁄₁₆

GIRDER G5C -1 REQ'D.

NOTES:
For camber diagram see Drawing 9-60-D2
For Sections-Details & General Notes see Drawing 9-60-S15
For sizes of material see Bill of Material 9-60-S34

DRAWN	6-5-59	J.P.F.
REVISION	7-24-59	T.H.C.
REVISION		
REVISION		

NORTHBOUND BRIDGE

G5C - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE # 95 - OVER MESSALONSKEE STREAM
WATERVILLE, MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

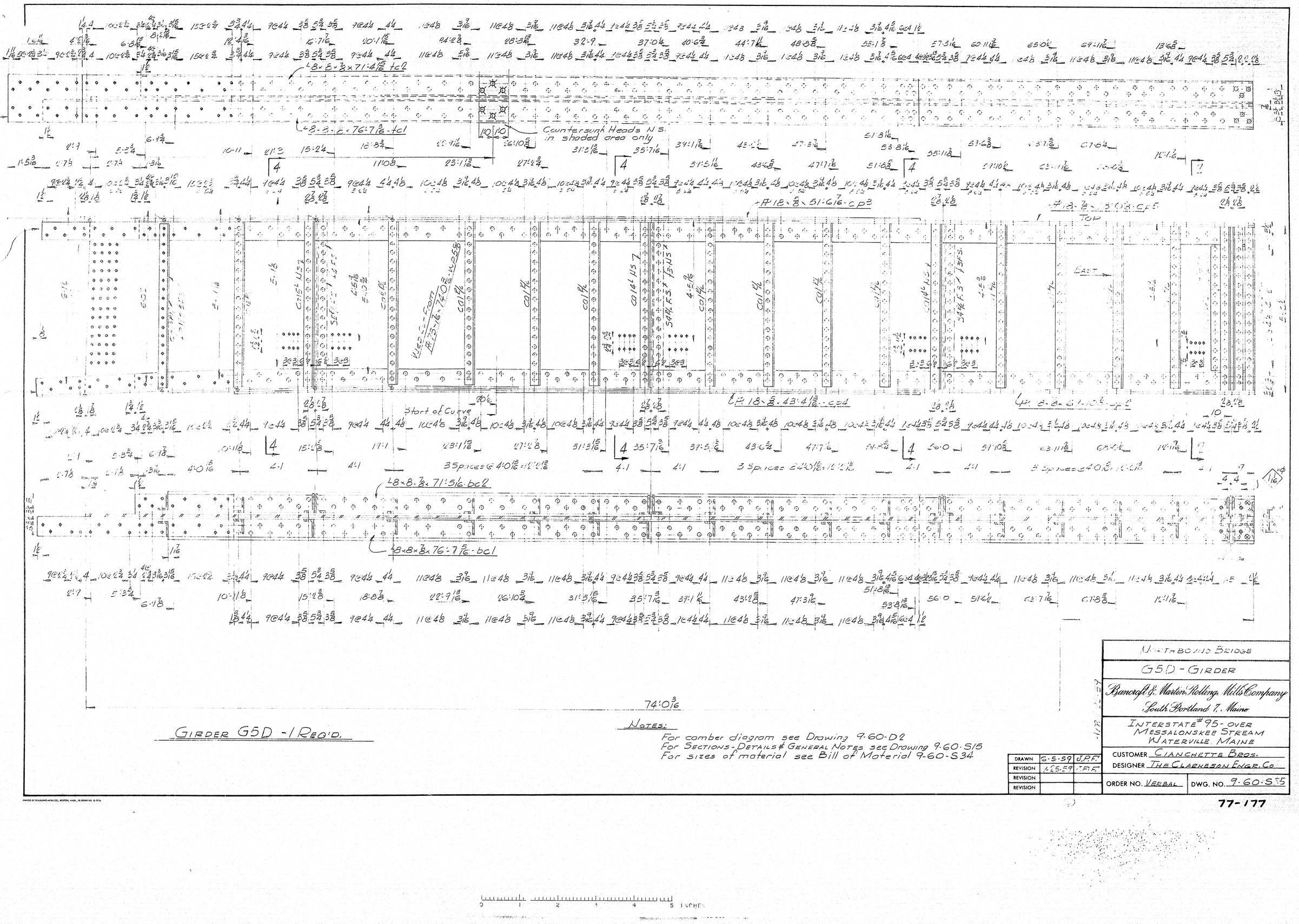
ORDER NO. VERBAL | DWG. NO. 9-60-S21

77-176

0 1 2 3 4 5 INCHE

Direct ry Dim. for Cp4 (taken from this point

Direct'y Dim. for Templates (taken from this point



GIRDER G5D -1 REQ'D.

74'-0 3/16"

NOTES:
For camber diagram see Drawing 9.60-D2
For Sections-Details & General Notes see Drawing 9.60-S15
For sizes of material see Bill of Material 9.60-S34

NORTHBOUND BRIDGE

G5D - GIRDER

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

INTERSTATE #95 - OVER MESSALONSKEE STREAM
WATERVILLE MAINE

CUSTOMER CIANCHETTE BROS.
DESIGNER THE CLARKESON ENGR. CO.

ORDER NO. VERBAL | DWG. NO. 9.60-S35

DRAWN	6-5-59	J.P.F.
REVISION	7-15-59	J.P.F.
REVISION		
REVISION		

77-177

0 1 2 3 4 5 INCHES