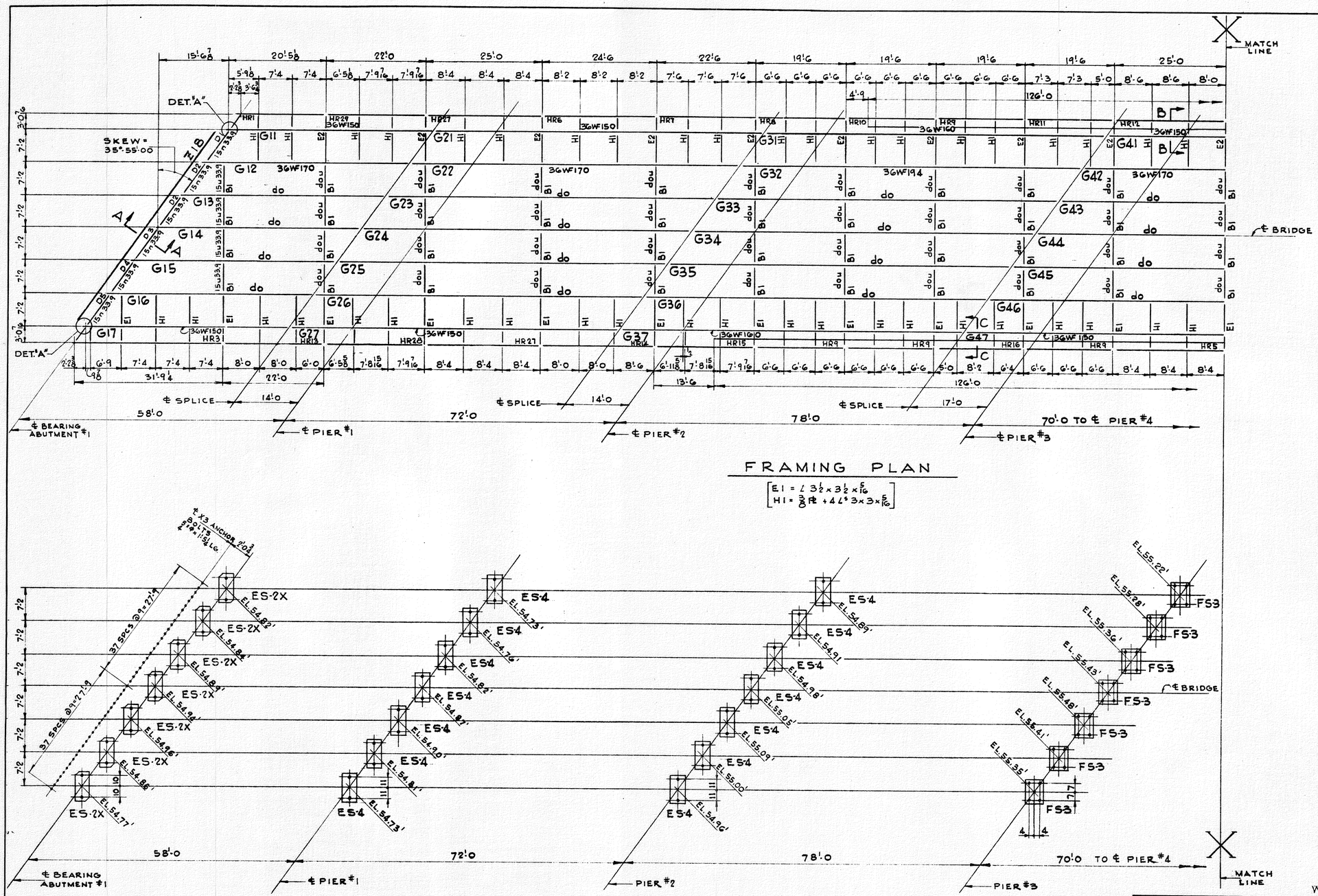


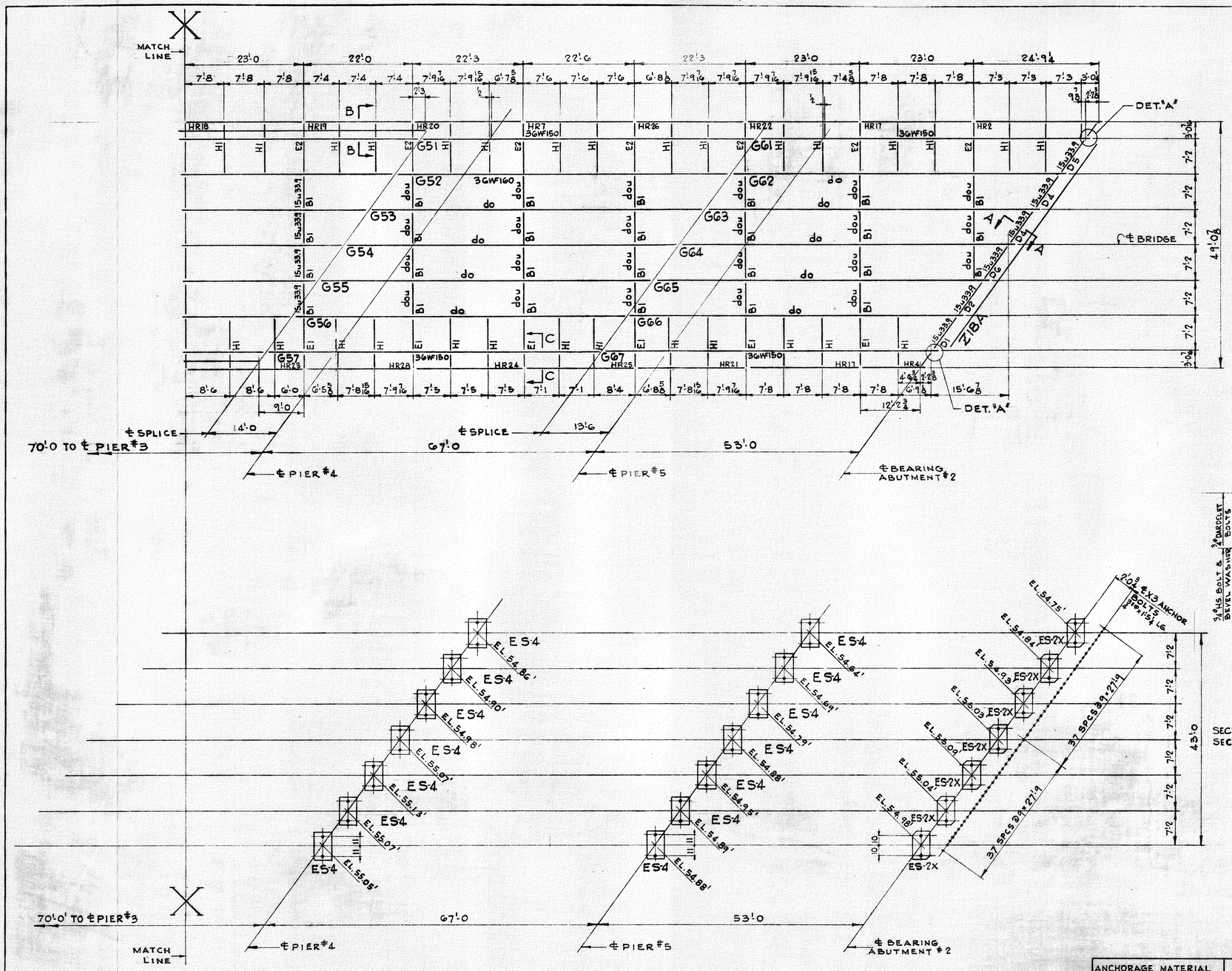
FRAMING PLAN

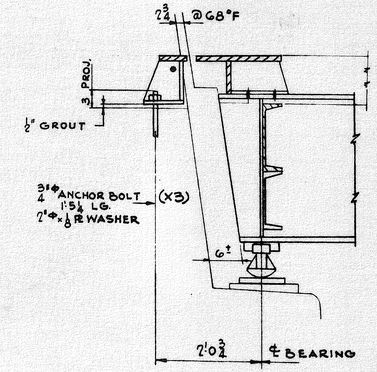
[E1 = ∠ 3½ x 3½ x 5/16
H1 = 3/8 PL + 4 ∠s 3 x 3 x 5/16]

ANCHOR BOLT SETTING PLAN

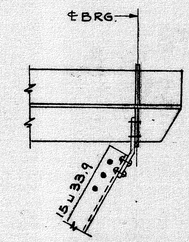
WORK THIS SHEET WITH SHEET No. 18-E2.

APPROVALS	FALMOUTH SPUR INTERCHANGE TURNPIKE UNDER
APPROVED HOWARD, NEEDLES, TAMMEN & BERGENDOFF By GSK Date 4/21/55	MAINE TURNPIKE AUTHORITY SECT. 2 PORTLAND TO AUGUSTA STRUCTURE-18 MAINE TURNPIKE Howard, Needles, Tammen & Bergendoff Consulting Engineers
1 2 S D DR CH 4/14 T.H.W. JE	Bancroft & Martin Rolling Mills Company South Portland 7, Maine
	Jo. No. 282 Sh. No. 18-E1

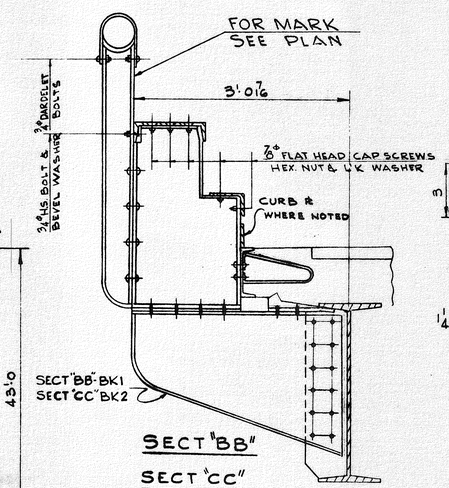




SECT. "AA"

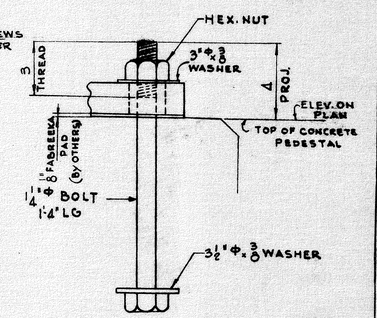


DET. "A"



SECT "BB"

SECT "CC"



ANCHOR BOLT ~ X1

FIELD CONNECTIONS

DIAPHRAGMS & SPLICES ~ 7/8" Φ HIGH TENSILE BOLTS

EXPANSION DAMS TO STRINGERS ~ 3/4" Φ MACHINE BOLTS.

HANDRAIL ~ 7/8" Φ HIGH TENSILE BOLTS. (EXCEPT AS NOTED)

WORK THIS SHEET WITH SHEET No 18-E1.

ANCHORAGE MATERIAL	
14	ES-2X
28	ES-4
7	FS-3
112	X1 BOLTS
150	X3 BOLTS
7	ST1 - ABUTMENTS
7	ST2 - PIERS #1,2,4,5
7	ST3 - PIER #3

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By ADN Date 4-28-55
E

1	2	3	D	DR	CH
			6/14	T.M.W.	JE

FALMOUTH SPUR INTERCHANGE
TURNPIKE UNDER

MAINE TURNPIKE AUTHORITY

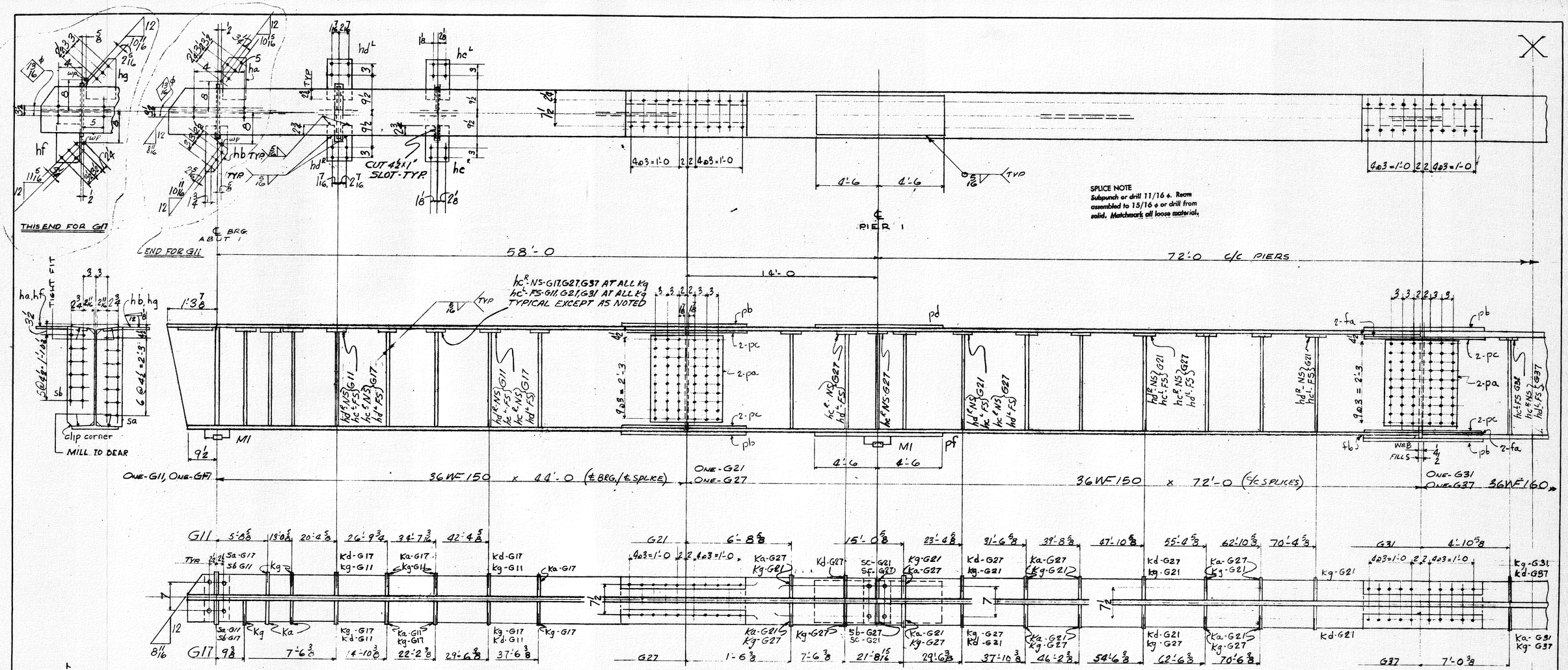
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE-18
MAINE TURNPIKE

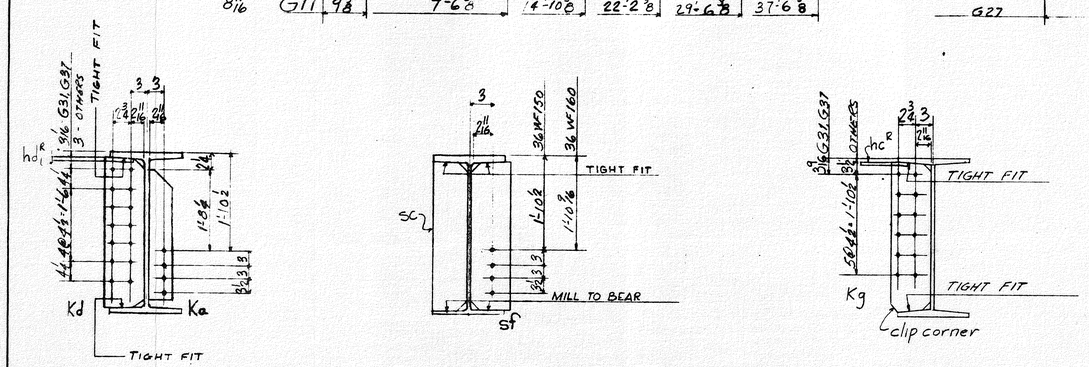
Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-E2





SEE SHT. 18-52
MATCH LINE

WORK THIS SHEET WITH DWG #18-52 & 18-53

APPROVALS					
APPROVED HOWARD, NEEDLES, TAMMEN & BERGENDOFF By CGP Date 2-9-55					
1	2	S	D	DR	CH
		2/14	4/14	WKW	JE

STRINGERS - FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

SECT. 2 PORTLAND TO AUGUSTA STRUCTURE - 18

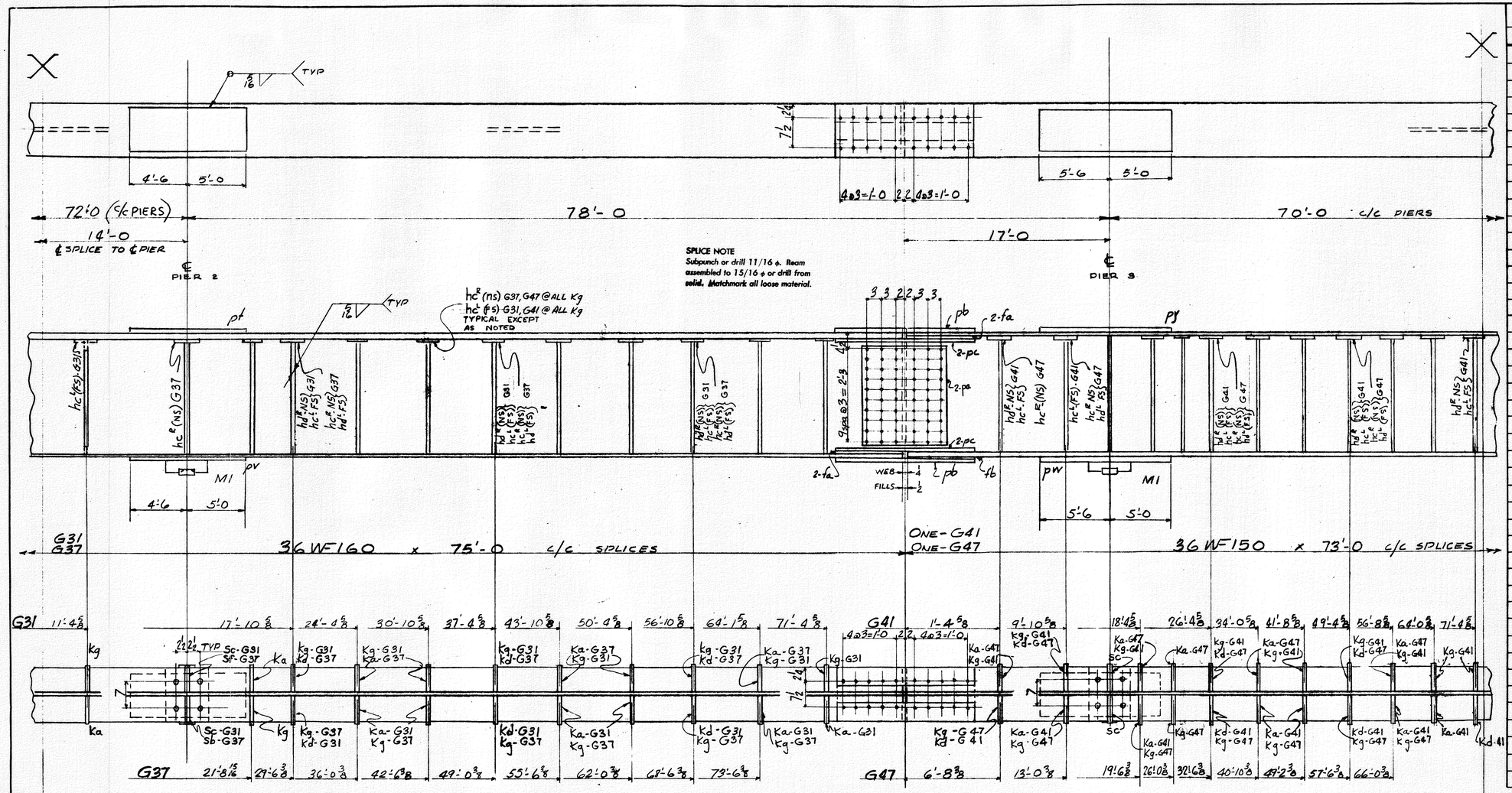
MAINE TURNPIKE

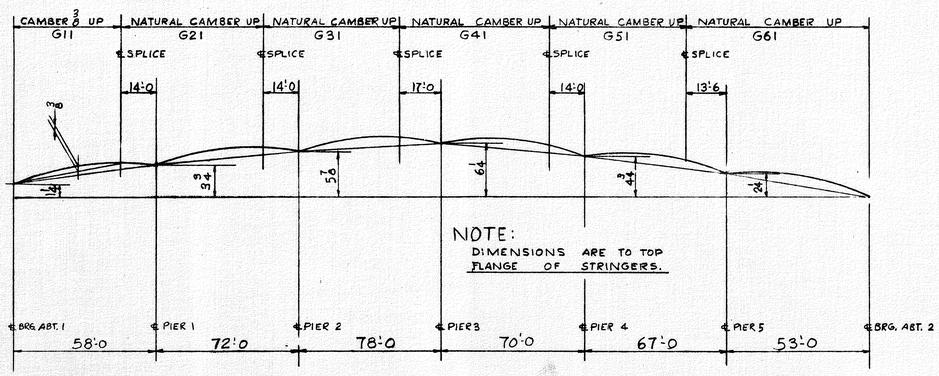
Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-51





BILL OF MATERIAL

NO.	MARK	SHAPE	LENGTH	REMARKS	PG	IT	WT.

NOTES:

HOLES: 15/16" dia. EXCEPT AS NOTED

CAMBER: SEE THIS SHEET ℄ 18S3

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications
NO PAINT - FAYING SURFACES

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

WORK THIS SHT WITH DWG #18-S1 & 18-S3

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By CGP Date 2-9-55
E

1	2	S	D	DR	CH
		7/14	4/4	NKW	JE

STRINGERS - FALMOUTH SPUR INTERCHANGE

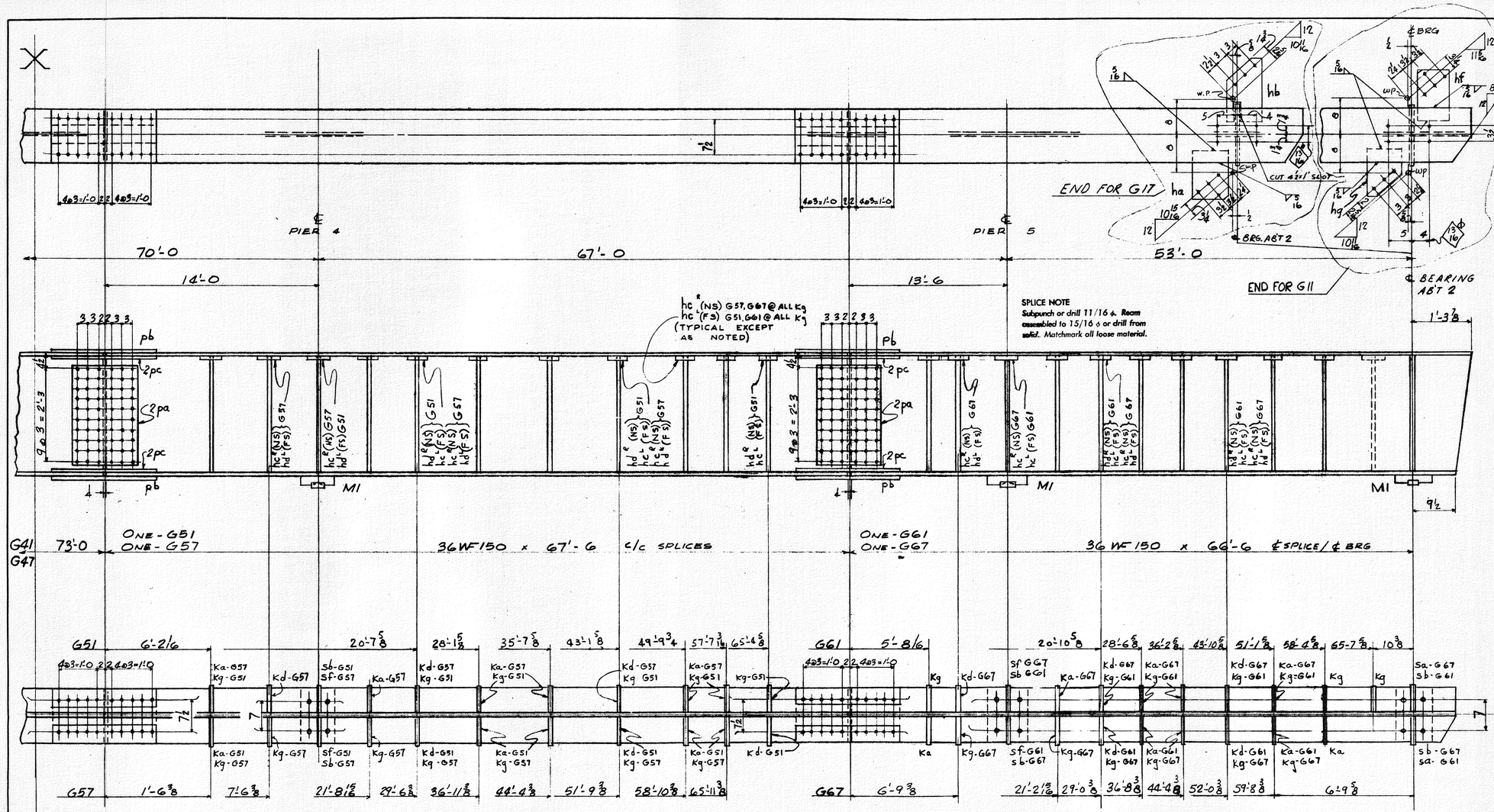
MAINE TURNPIKE AUTHORITY
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE - 18
MAINE TURNPIKE

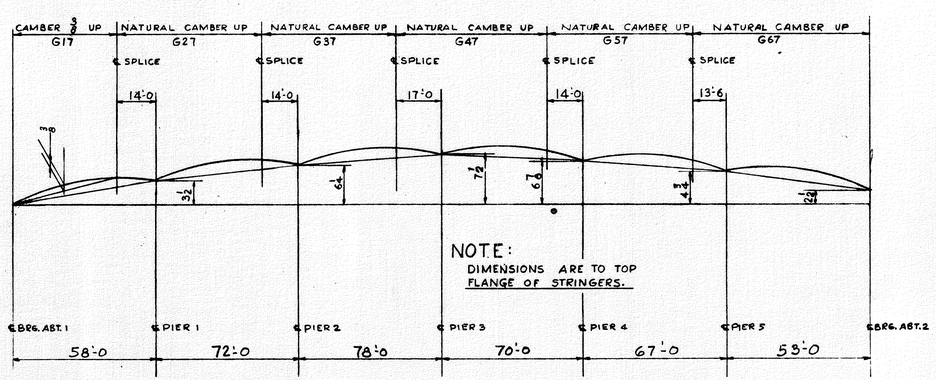
Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-S2





BILL OF MATERIAL

NO.	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT.
2		36WF150	45	3 3/4				
2		do	71	11 3/4				
2		do	72	11 3/4				
2		do	67	5 3/4				
2		do	67	9 3/4				
2		36WF160	74	11 3/4				
2	ha	PL 8 1/4 x 3/8	1	0 1/4				
2	hb	PL 8 x 3/8	1	2 1/2				
108	hc^L	do		11				
35	hd^R	do		11	17hd^R, 18hd^L			
2	hf	PL 8 1/4 x 3/8	1	0 1/4				
2	hg	PL 8 x 3/8		11 1/2				
4	sa	PL 7 x 5/8	2	10 1/4	MIE, F1E			
10	sb	do	2	10 1/4	do			
8	sc	PL 5 3/4 x 5/8	2	10 1/4	do			
6	sf	PL 7 x 5/8	2	10 1/4	do			
65	ka	PL 7 x 5/8	2	7 1/2				
35	kd	do	2	10 1/4	F2E			
102	kg	do	2	10 1/4	do			
20	pa	UMPL 19 x 3/8	2	6				
20	pb	PL 12 x 7/16	2	7				
40	pc	FL 4 1/2 x 7/16	2	7				
2	pd	PL 11 x 1/2	9	0				
2	pf	do	9	0				
2	pt	do	9	6				
2	pv	do	9	6				
2	pw	do	10	6				
2	py	do	10	6				
16	fa	FL 4 1/2 x 3/8	1	3 1/4				
4	fb	PL 12 x 7/16	1	3 1/4				
14	M1	SEE STD. SHEET 51						

NOTES:

HOLES: 15/16" dia. EXCEPT AS NOTED

CAMBER: SEE THIS SHEET & 18-52

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications
NO PAINT - FAYING SURFACES

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

WORK THIS SHT WITH DWG #18-51 & 18-52

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By CGP Date 2-9-55
E

1	2	S	D	DR	CH
		5/14	6/14	LMC	JE

STRINGERS - FALMOUTH SPUR INTERCHANGE

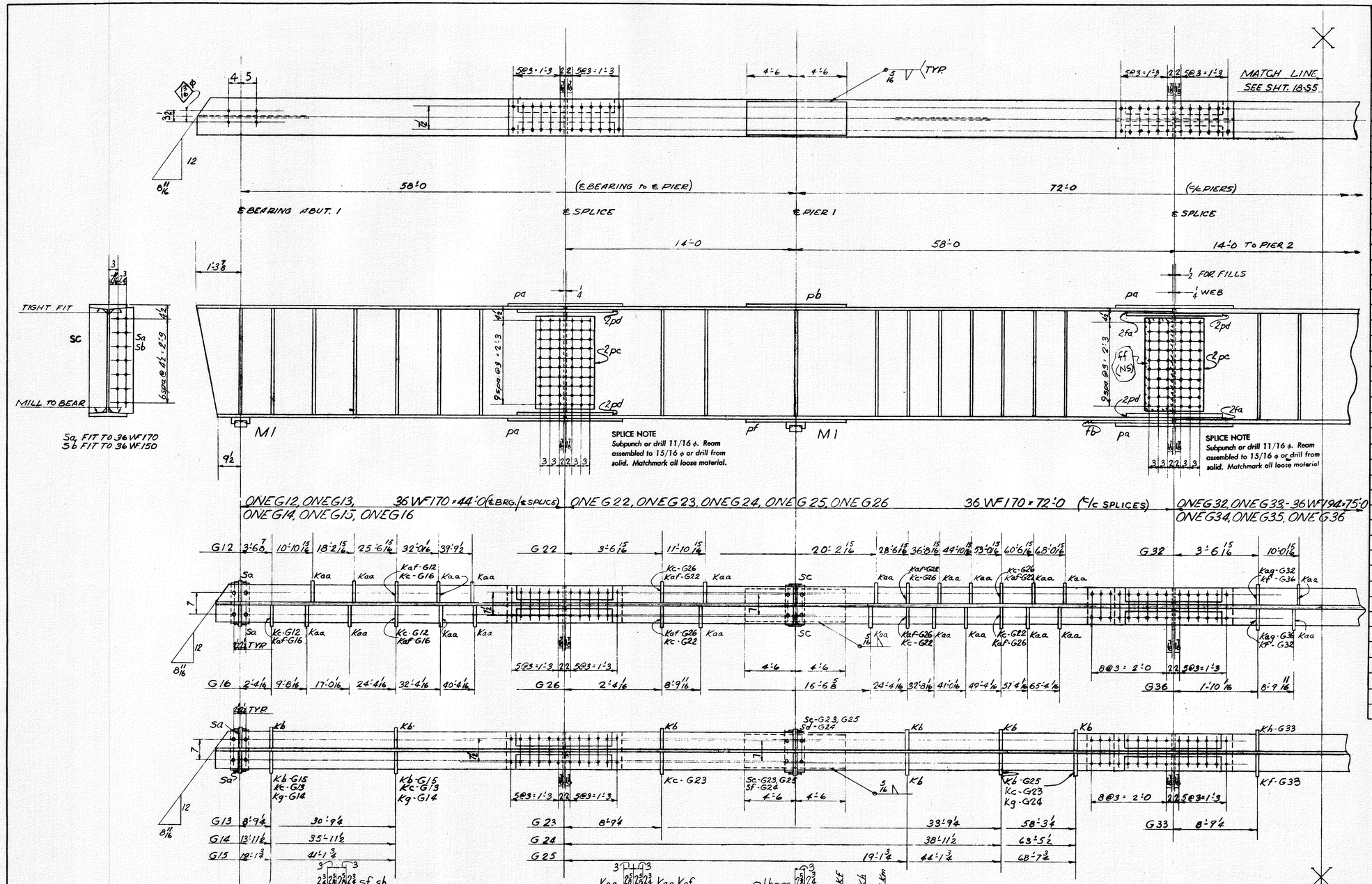
MAINE TURNPIKE AUTHORITY
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE - 18
MAINE TURNPIKE

Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-53



Shop Note:

FOR Kd USE EXTRA "Kd" STIFF. FROM BRIDGE #11 (TOTAL 18) MAKE 7 ADDITIONAL. EXTRA "Kd" STIFF HAVE ONE MILLED END SUITABLE FOR USE AT PIERS WHERE NOTED ON SHEET 18-S6.
FOR "Ka" USE 18 OF EXTRA (24) "Ka" STIFF FROM BRIDGE #11.

WORK THIS SHEET WITH SHT. 18-S5 & 18-S6

BILL OF MATERIAL

NO.	MARK	SHAPE	LENGTH	REMARKS	PG	IT	WT.

NOTES:

HOLES: 15/16" dia. EXCEPT AS NOTED

CAMBER: SEE SHEET S5

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications
NO PAINT - FAYING SURFACES

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By GSK Date 6-22-55
E

REV. 6/20/55 - added fill ff to splice

1	2	S	D	DR	CH
		3/14	6/14	L.M.C.	JE

STRINGERS - FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

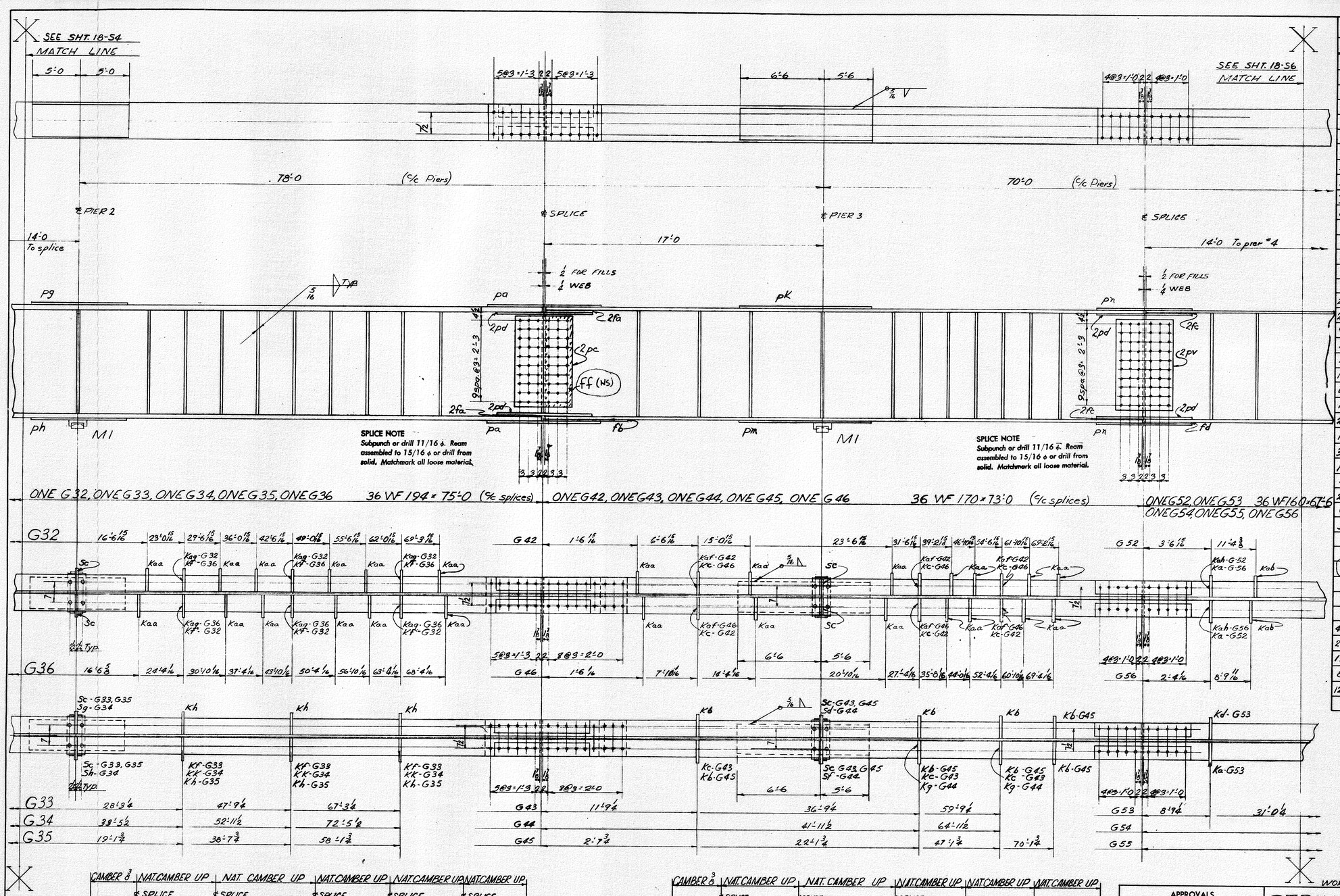
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE-18
MAINE TURNPIKE

Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-S4



NOTE
DIM. FROM BASE LINE ARE TO TOP FLG OF STRINGERS.

BILL OF MATERIAL

NO.	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT.
5		36WF170	45	3 3/4				
5		do	71	11 3/4				
5		do	72	11 3/4				
5		36WF194	74	11 3/4				
5		36WF160	67	5 3/4				
5		36WF150	67	9 3/4				
30	pa	PL 12×1/2	3	1				
15	pb	PL 11×1/2	9	0				
30	pc	UNIPL 19×9/16	2	6				
80	pd	FL 4 1/2×5/8	2	7				
15	pf	PL 11×1/2	9	0				
5	pg	PL 11×1/2	10	0				
5	ph	PL 11×1/2	10	0				
5	pk	PL 11×1/2	12	0				
5	pm	PL 11×1/2	12	0				
20	pn	PL 12×7/16	2	7				
20	pv	UNIPL 19×3/8	2	6				
20	py	FL 4 1/2×9/16	12	7				
10	fb	PL 12×5/16	2	3 1/4				
40	fc	FL 4 1/2×5/8	1	3 1/4				
10	fd	PL 12×3/16	1	3 1/4				
40	fa	FL 4 1/2×3/16	1	3 1/4				
18	ka	PL 7×5/8	2	10 1/4	SEE SHOP NOTE 18-S4			
23	kd	do	2	10 1/4	do			
13	kh	do	2	10 1/4	F2E			
32	kb	do	2	10 1/4	do			
12	kf	do	2	10 1/4	do			
4	km	do	2	10 1/4	do			
23	kc	do	2	10 1/4	do			
6	kg	do	2	10 1/4	do			
3	kk	do	2	10 1/4	do			
10	ff	PL 9 1/4×1/8	2	6				
48	kaa	PL 7×5/8	2	7 1/4				
23	kab	do	2	7 1/4				
15	kaf	do	2	10 1/4	F2E			
8	kag	do	2	10 1/4	do			
12	kah	do	2	10 1/4				

NOTES:

HOLES: 15/16" dia. EXCEPT AS NOTED

CAMBER: SEE THIS SHEET

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications
NO PAINT - FAYING SURFACES

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

WORK THIS SHT. WITH SHTS. 18S4 & 18S6

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By GSK Date 6-22-55
E

REV. 6/20/55 - Added fill ff to splice

1	2	3	4	5	6	7	8
		5/14	6/14	LMC	JE		

STRINGERS - FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

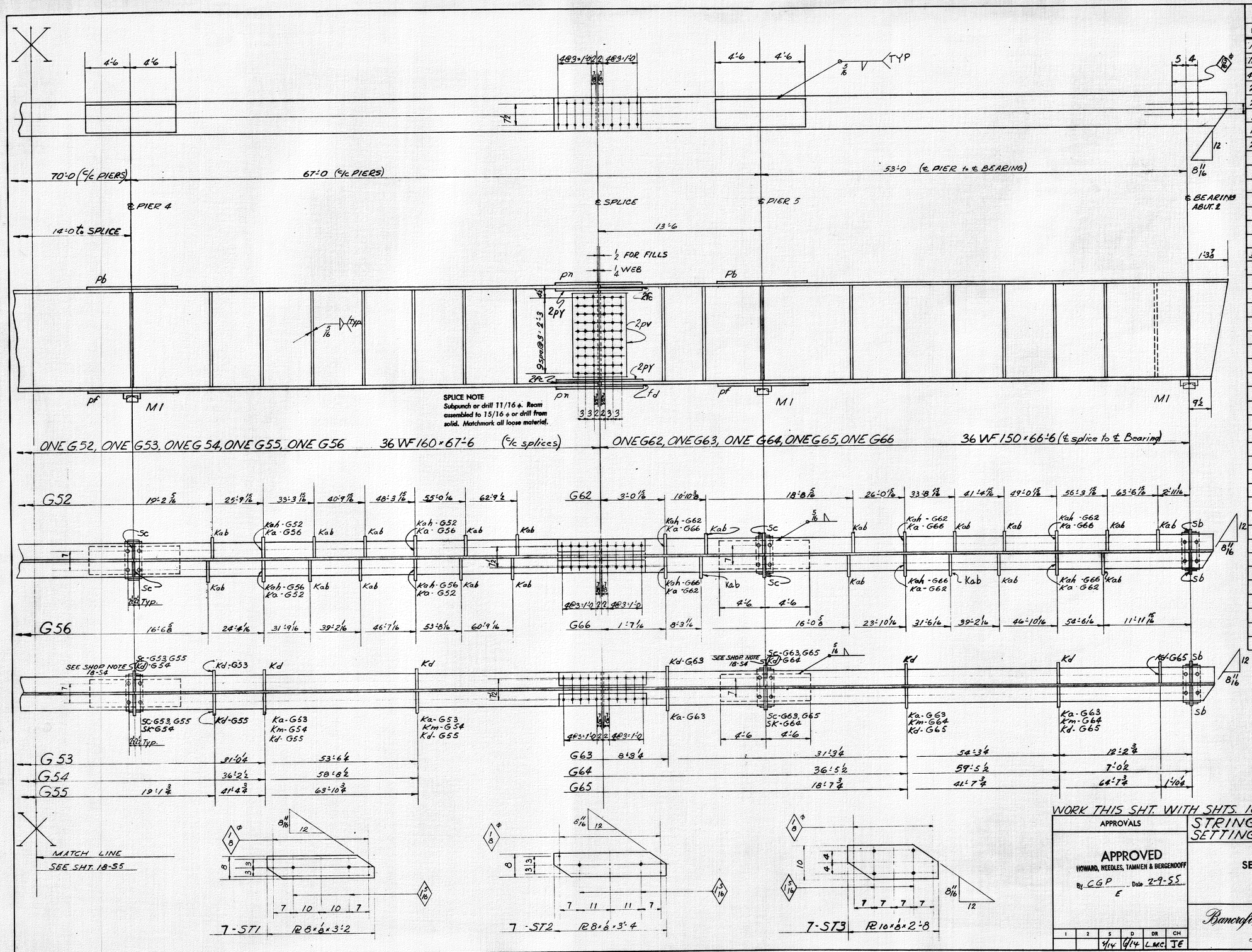
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE-18
MAINE TURNPIKE

Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-S5



BILL OF MATERIAL							
NO.	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT.
10	Sa	PL 7 × 5/8	2	10 1/4	M1E, F1E			
10	Sb	do	2	10 1/4	do			
40	Sc	FL 5 3/8 × 5/8	2	10 1/4	do			
2	Sd	PL 7 × 5/8	2	10 1/4	do			
2	Sf	do	2	10 1/4	do			
1	Sg	do	2	10 1/4	do			
1	Sh	do	2	10 1/4	do			
2	SK	do	2	10 1/4	do			
35	M1	SEE STD. SHEET S1						
7	ST1	PL 8 × 1/8	3	2				
7	ST2	do	3	4				
7	ST3	PL 10 × 1/8	2	8				

NOTES:

HOLES: 15/16" dia. EXCEPT AS NOTED

CAMBER: SEE SHEET S5

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications
NO PAINT - FAYING SURFACES

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

WORK THIS SHT. WITH SHTS. 18S4 & 18S5

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By CGP Date 2-9-55
E

1	2	S	D	DR	CH
		4/14	6/14	L.MC.	JE

STRINGERS & SETTING TEMPLATES FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

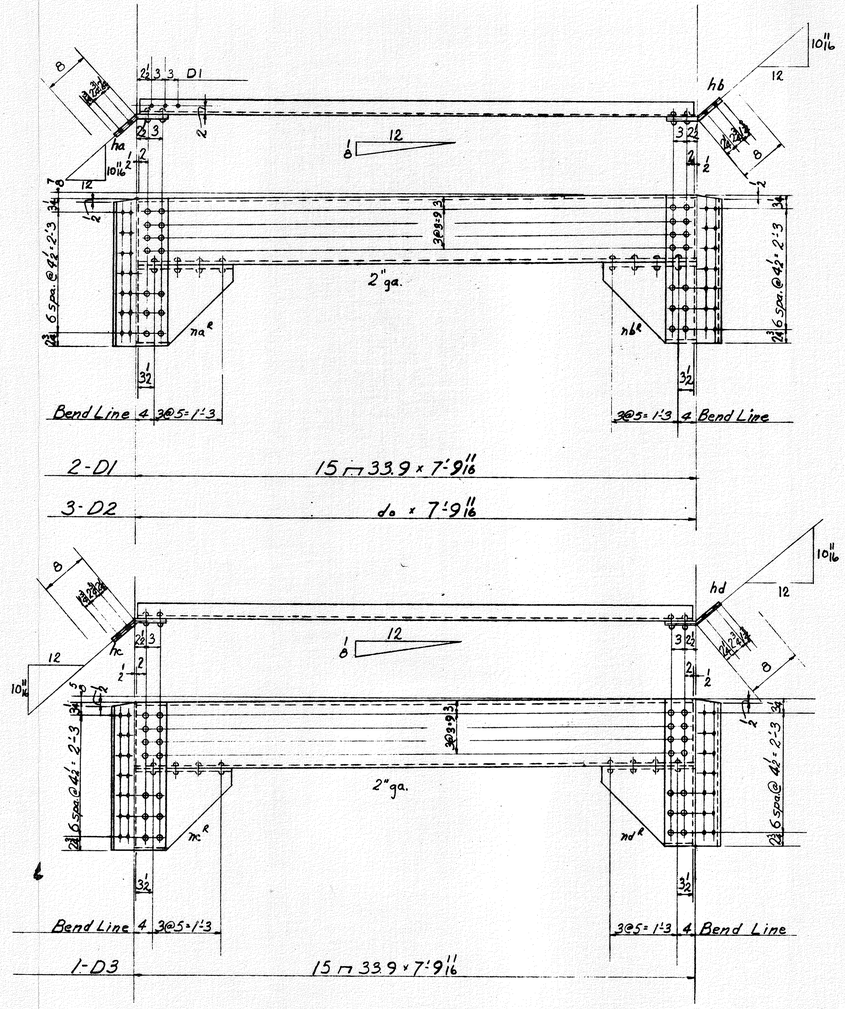
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE-18
MAINE TURNPIKE

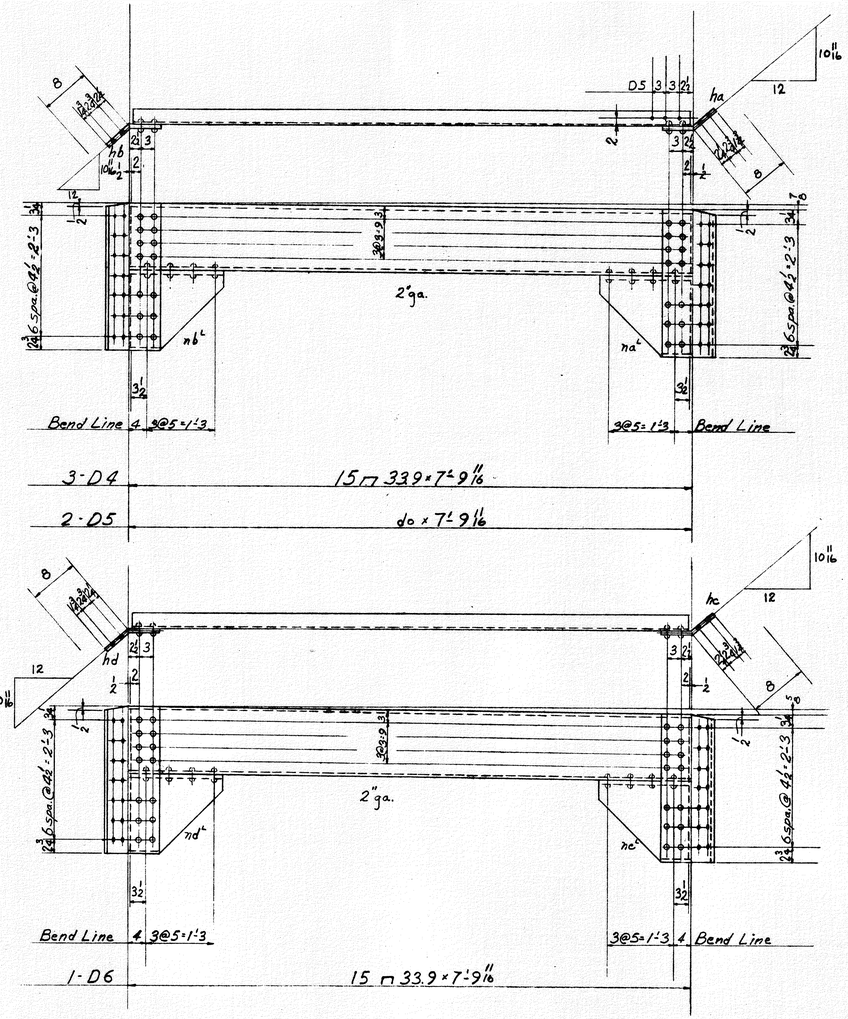
Howard, Needles, Tammen & Bergendoff Consulting Engineers

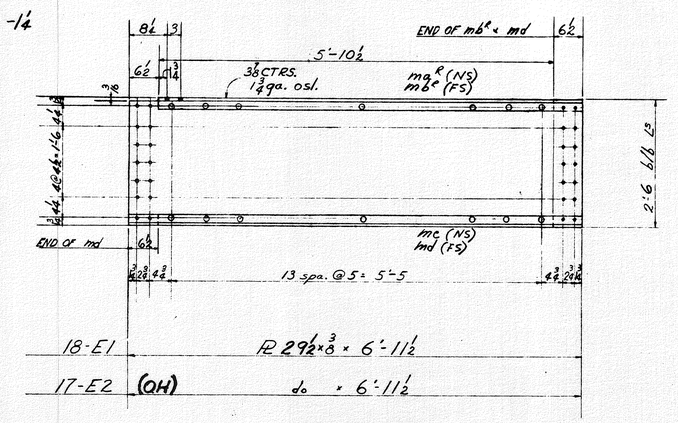
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

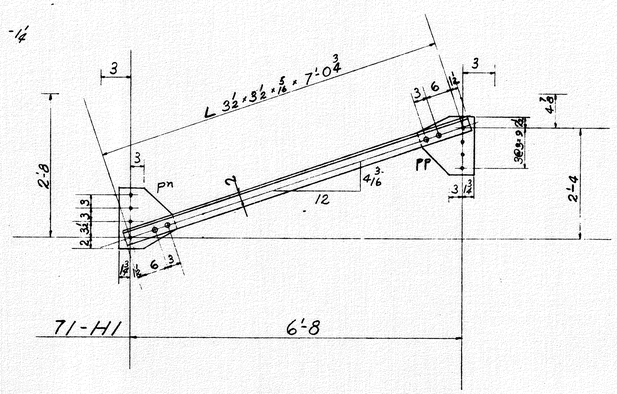
Jo. No. 282

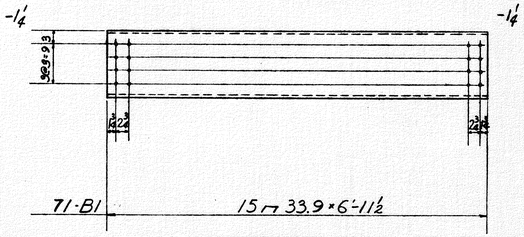
Sh. No. 18-S6











BILL OF MATERIAL

NO.	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT.
2	D1	15 ⊓ 33.9	7	8 7/8				
3	D2	do	7	8 7/8				
3	D4	do	7	8 7/8				
2	D5	do	7	8 7/8				
10	ha	PL 14 × 3/8	2	9				
10	hb	do	2	9				
10	ma^R/L	pc 18 ⊓ 42.7	1	8 1/2				
10	mb^R/L	do	1	8 1/2				
⋮								
1	D3	15 ⊓ 33.9	7	8 7/8				
1	D6	do	7	8 7/8				
2	hc	PL 14 × 3/8	2	9				
2	hd	do	2	9				
2	mc^R/L	pc 18 ⊓ 42.7	1	8 1/2				
2	md^R/L	do	1	8 1/2				
18	E1	PL 29 1/2 × 3/8	6	11 1/2				
17	E2	do	6	11 1/2				
35	ma^R/L	L 3 × 3 × 5/16	6	5	18 ma^R 17 ma^L			
35	mb^R/L	do	5	10 1/2	18 mb^R 17 mb^L			
35	mc	do	6	11 1/2				
35	md	do	5	10 1/2				
⋮								
71	H1	L 3 1/2 × 3 1/2 × 5/16	7	3 3/4				
71	pn	PL 12 1/4 × 3/8	1	1 1/2				
71	pp	do	1	1 1/4				
⋮								
71	B1	15 ⊓ 33.9	6	11 1/2				
⋮								
⋮		FIELD BOLTS						
520		7/8 ϕ HIGH STR.		2 1/4				
3800				2 1/2				
710				2 3/4				
2200				3				
1040				3 1/4	19,560			
440				3 1/2	15/16 ID × 2 1/4 OD × 5/64 WASH.			
650				3 3/4				
420				4				
130		7/8 ϕ FL. HD CAP SCREWS		2 1/4				
30		3/4 ϕ H.S. BOLT		2 1/4	30 STD HS WASH 30 DOU HS WASH			
55		3/4 ϕ DRIFTBOLT			NO 2 GRIP			
55		do			NO 3 GRIP			

NOTES: 7/8 ϕ RIVETS

HOLES: 15/16" dia.

CAMBER:

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications
No Paint: Faying Surfaces

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By CGP Date 3-18-55
E

1	2	S	D	DR	CH
			6/14	LMC	JE

DIAPHRAGMS FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

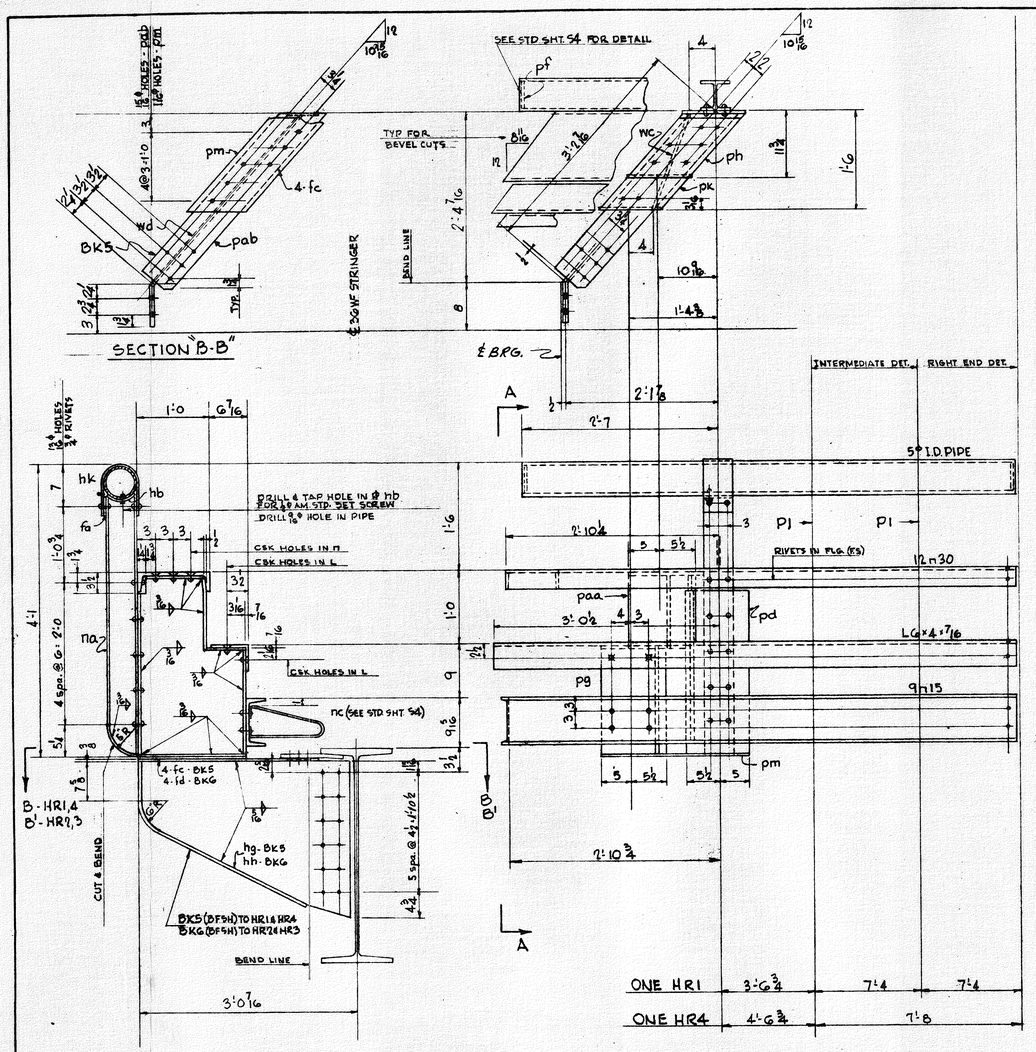
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE-18
MAINE TURNPIKE

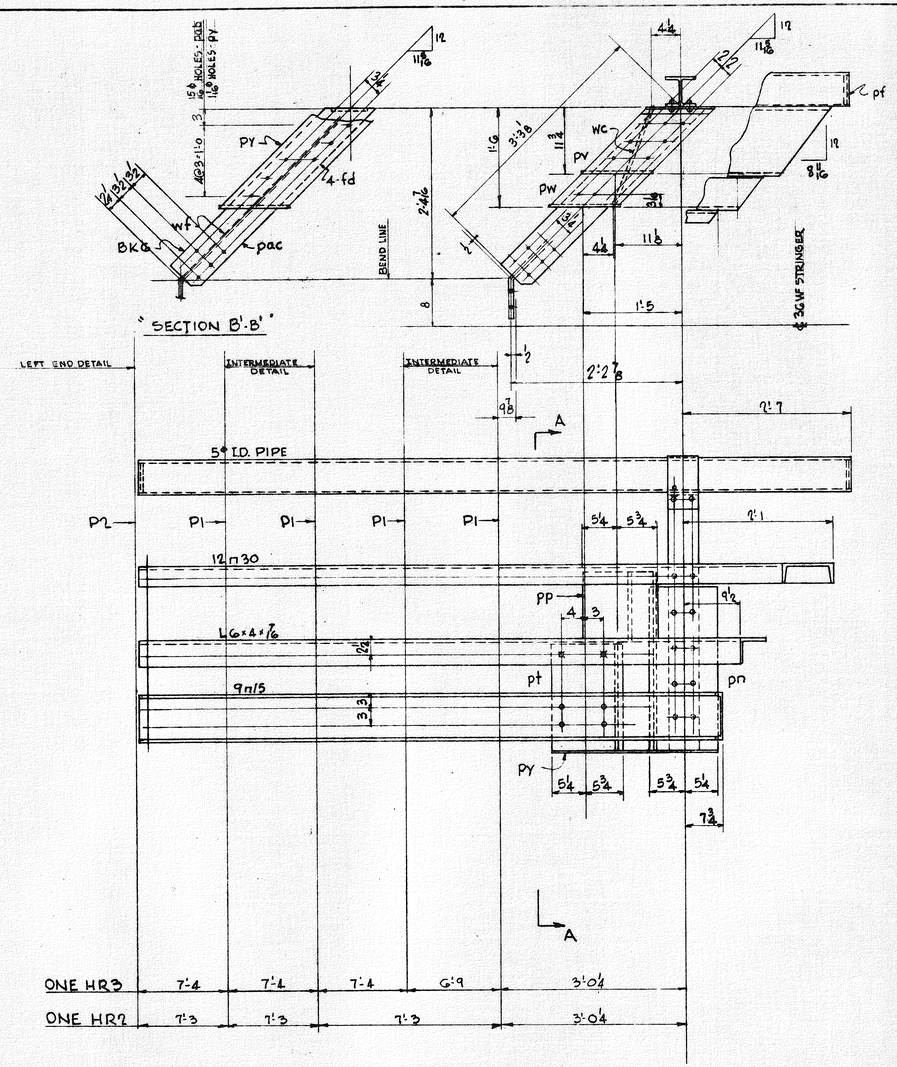
Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-S7





BILL OF MATERIAL

NO.	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT.
		ONE HR1, ONE HR4						
1		5φ I.D. PIPE	20	9 1/4	HR1			
1		do	14	9 1/4	HR4			
1		12 n 30	21	0 3/4	HR1			
1		do	15	0 3/4	HR4			
1		L6×4×7/16	21	3	HR1			
1		do	15	3	HR4			
1		9 n 15	21	1 1/4	HR1			
1		do	15	1 1/4	HR4			
2	pd	ℙ 10 1/2 × 1/2	2	3				
2	paa	do	0	11 3/8				
2	pg	do	1	5 1/2				
2	ph	ℙ 7 1/2 × 1/2	1	7 5/8				
2	pk	do	1	3 1/4				
2	pm	do	2	7 1/4				
2	wc	ℙ 19 1/4 × 1/2	2	5 5/8				
2	na	5WF16	3	10 1/4				
2	hb	ℙ 5 × 5/16	0	5				
2	hk	ℙ 5 × 1/4	1	8				
2	fa	ℙ 2 1/2 × 9/16	0	5				
8	fc	ℙ 6 × 3/8						
		ONE HR2, ONE HR3						
1		5" I.D. PIPE	27	3 3/4	HR2			
1		do	34	3 3/4	HR3			
1		12 n 30	26	10	HR2			
1		do	33	10	HR3			
1		L6×4×7/16	25	6 1/2	HR2			
1		do	32	6 1/2	HR3			
1		9 n 15	25	4 3/4	HR2			
1		do	32	4 3/4	HR3			
2	pn	ℙ 11 × 1/2	2	3				
2	pp	do	0	11 3/8				
2	pt	do	1	5 1/2				
2	pv	ℙ 7 1/2 × 1/2	1	8 5/8				
2	pw	do	1	3 3/4				
2	py	do	2	7 5/8				
8	fd	ℙ 6 × 5/8	2	4 1/2				
2	wc	ℙ 19 1/4 × 1/2	2	5 5/8				
2	na	5WF16	3	10 1/4				
2	hb	ℙ 5 × 5/16	0	5				
2	hk	ℙ 5 × 1/4	1	8				
2	fa	ℙ 2 1/2 × 9/16	0	5				
8	pf	Fl 4 7/8 × 1/4	SEE STD SHT S4					

NOTES: RIVETS 7/8 φ Except as noted

HOLES: 15/16" dia. Except as noted

CAMBER:

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications
No paint - faying surfaces

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

NO	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT
		2 - BK5						
2	wd	ℙ 29 1/4 × 3/8	3	8 1/2	BEND			
2	pab	ℙ 6 × 3/8	3	4 3/4				
2	hg	do	5	0±				
		2 - BKG						
2	wf	ℙ 29 1/4 × 3/8	3	9 1/4	BEND			
2	pac	ℙ 6 × 3/8	3	5 1/2				
2	hh	do	5	0±				
10	P1	SEE STD SHT S4						
2	P2							

FOR DETAILS NOT SHOWN SEE STD. SHT. S4

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
BY ADH 4/23/55

1	2	S	D	DR	CH
		5/14	6/14	LMC SMC	JE

HANDRAIL - FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

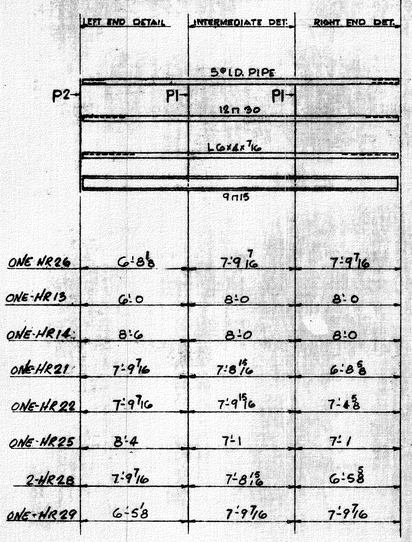
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE - 18
MAINE TURNPIKE

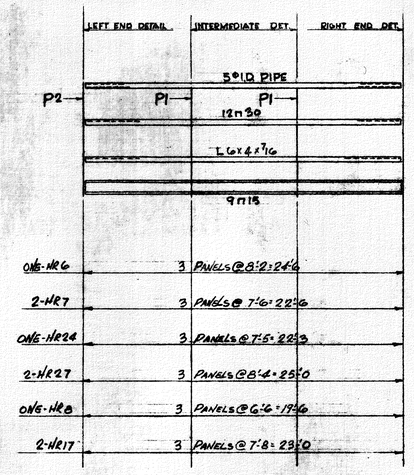
Howard, Needles, Tammen & Bergendoff Consulting Engineers

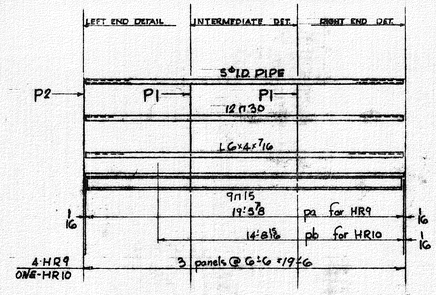
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

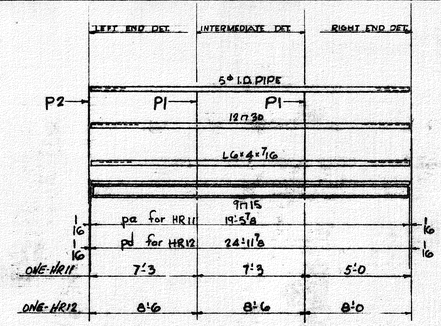
Jo. No. 282

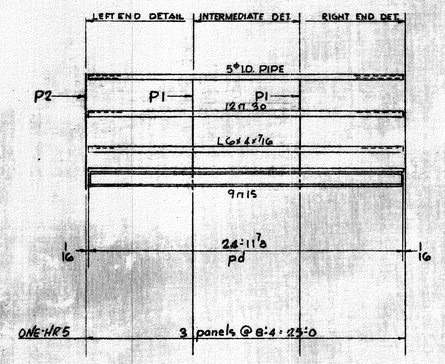
Sh. No. 18-S8

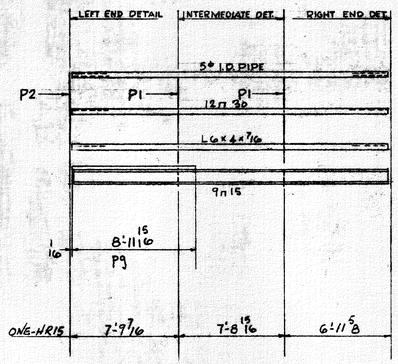


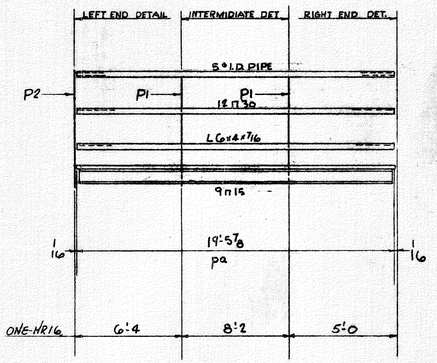


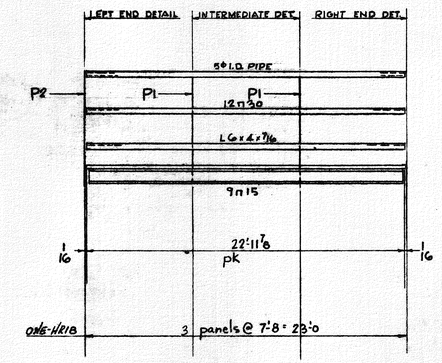


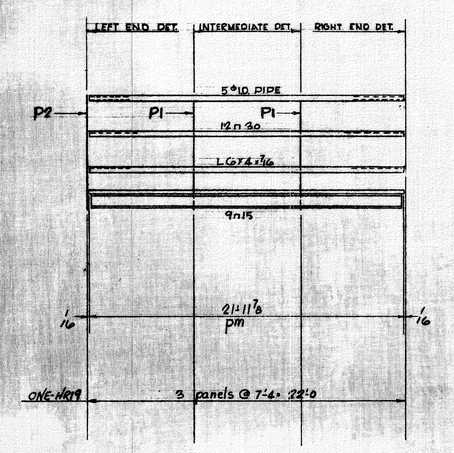


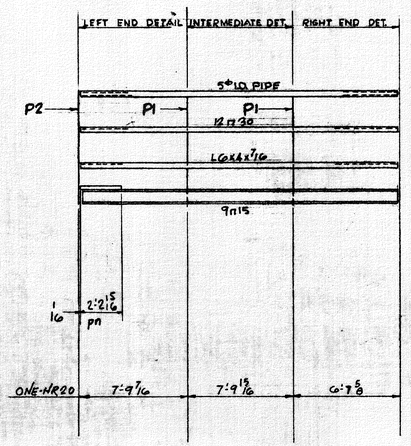


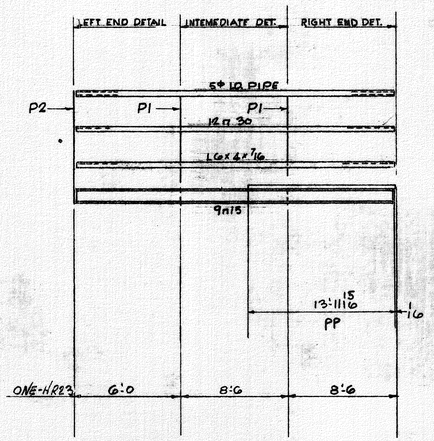












BILL OF MATERIAL

NO.	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT.
6		5φ I.D. PIPE	21	11	HR26, HR13, HR14, HR28, HR29			
6		12 ⊓ 30	21	11½	do			
6		L6x4x7/16	21	11½	do			
6		9 ⊓ 15	21	11½	do			
1	pm	PL 4x3/8	21	11 7/8	HR19			
4		5φ I.D. PIPE	24	11	HR22, HR6, HR12			
4		12 ⊓ 30	24	11½	do			
4		L6x4x7/16	24	11½	do			
4		9 ⊓ 15	24	11½	do			
2	pd	PL 4x3/8	24	11 7/8	HR12, HR5			
2		5φ I.D. PIPE	24	5	HR6, HR14			
2		12 ⊓ 30	24	5½				
2		L6x4x7/16	24	5½				
2		9 ⊓ 15	24	5½				
4		5φ I.D. PIPE	22	5	HR7, HR15, HR25			
4		12 ⊓ 30	22	5½				
4		L6x4x7/16	22	5½				
4		9 ⊓ 15	22	5½				
1	pg	PL 4x3/8	8	11 15/16	HR15			
8		5φ I.D. PIPE	19	5	HR8, HR9, HR10, HR11, HR16			
8		12 ⊓ 30	19	5½				
8		L6x4x7/16	19	5½				
8		9 ⊓ 15	19	5½				
6	pa	PL 4x3/8	19	5 7/8	HR9, HR11, HR16			
1	pb	do	14	8 15/16	HR10			
4		5φ I.D. PIPE	22	11	HR17, HR18, HR24			
4		12 ⊓ 30	22	11½				
4		L6x4x7/16	22	11½				
4		9 ⊓ 15	22	11½				
1	pk	PL 4x3/8	22	11 7/8	HR18			
1	pp	do	13	11 15/16	HR23			
4		5φ I.D. PIPE	22	2	HR20, HR21, HR24, HR26			
4		12 ⊓ 30	22	2½				
4		L6x4x7/16	22	2½				
4		9 ⊓ 15	22	2½				
1	pn	PL 4x3/8	2	2 15/16	HR20			

NOTES:

HOLES: 15/16" dia.

CAMBER:

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

NO	MARK	SHAPE	LENGTH	REMARKS	PG	IT	WT.
64	pf	PL 4 7/8x1/4	SEE	STD. SHEET S4			
64	P1		SEE	STD. SHEET S4			
32	P2			do			

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By ADH Date 4/23/55
E

1	2	S	D	DR	CH
		54	6/14	LMC	JE

HANDRAIL - FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

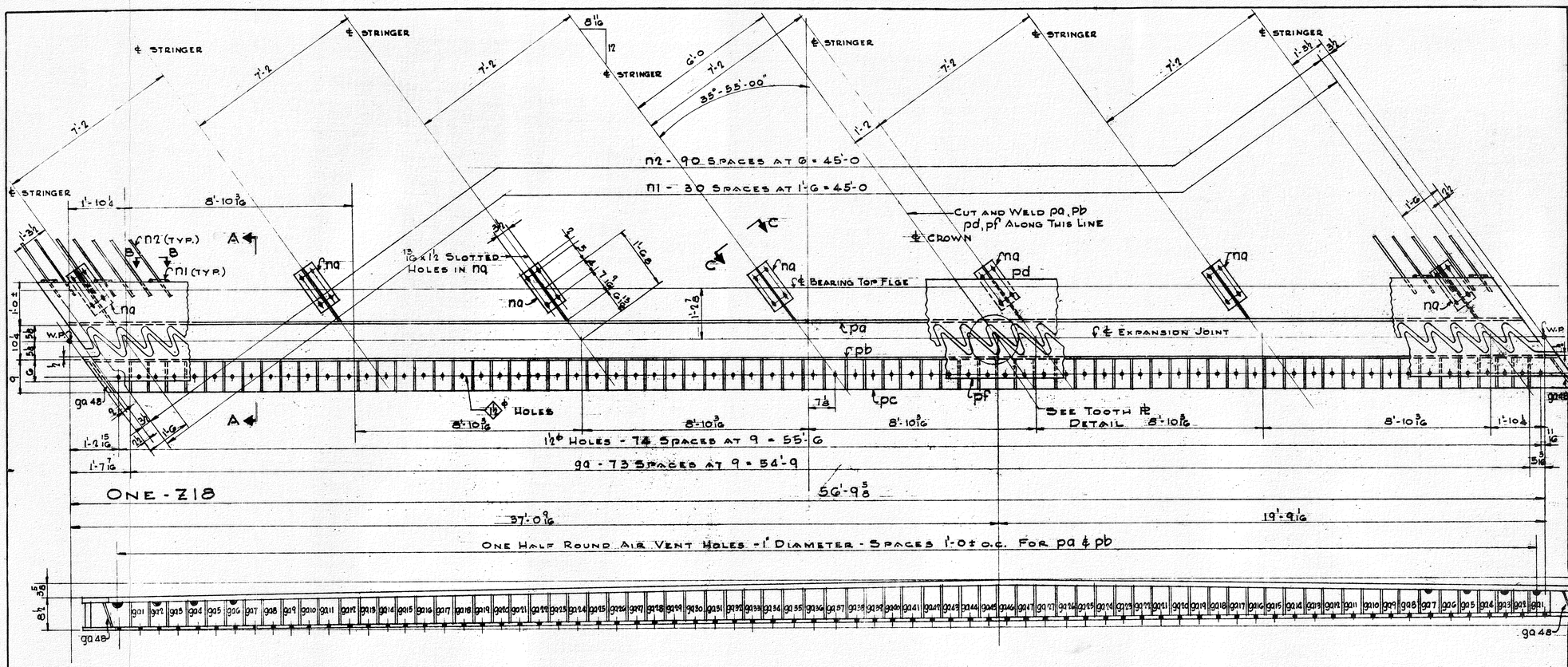
SECT. 2 PORTLAND TO AUGUSTA STRUCTURE-18
MAINE TURNPIKE

Howard, Needles, Tammen & Bergendoff Consulting Engineers

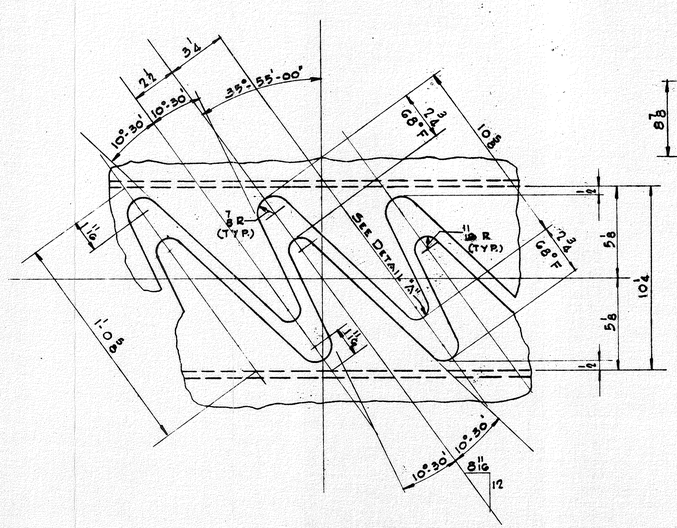
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

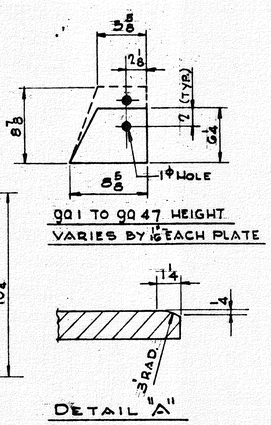
Jo. No. 282

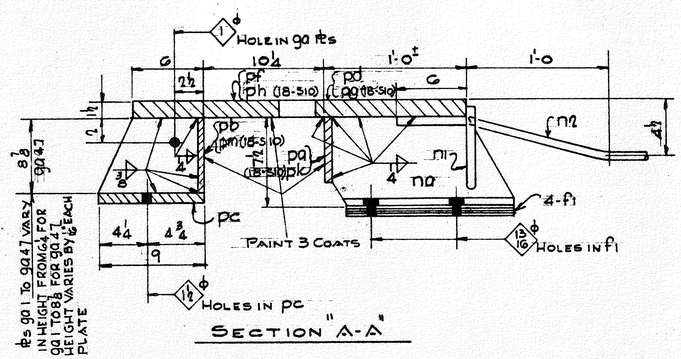
Sh. No. 18-S9

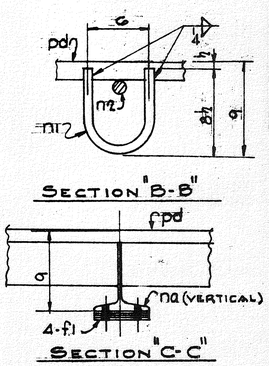


BILL OF MATERIAL								
NO.	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT.
ONE	Z18	EXPANSION ASSEMBLY						
1	pa	⌀ 6 x 3/8	56	3 7/8				
1	pb	⌀ 8 7/8 x 3/8	56	10				
1	pc	⌀ 9 x 3/4	57	4 5/8				
1	pd	⌀ 26 x 1½	58	4½	CUT BOTH ⌀s			
1	pf				FROM ONE ⌀			
31	n1	3/4 ϕ ROD	1	8½	BEND			
91	n2	do	5	0				
7	na	PC 18 I 70	1	6 3/4				
74	ga	⌀ 7½ x ½	0	8 5/8	AVERAGE HGT			
28	f1	FL 6 x 5/8	1	1				
2	ga48	⌀ 6¼ x ½	0	11				









NOTES:

HOLES: 15/16" dia. EXCEPT AS NOTED

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications EXCEPT AS NOTED

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

APPROVALS

APPROVED
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
By GSK Date 4-1-55

1	2	S	D	DR	CH
		4/8	6/14	L.V.G.	JE

EXPANSION JOINT DETAILS - FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

SECT. 2 PORTLAND TO AUGUSTA STRUCTURE-18

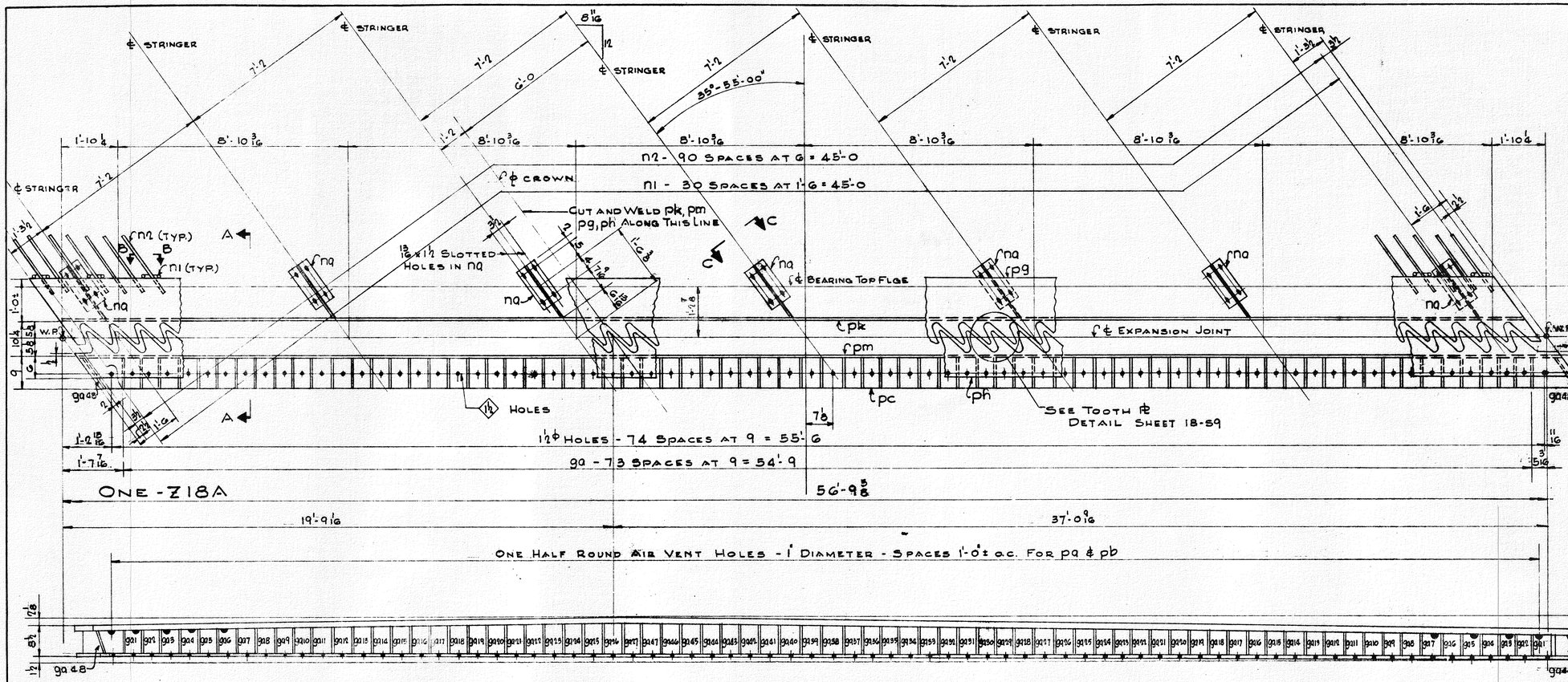
MAINE TURNPIKE

Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-910



BILL OF MATERIAL

NO.	MARK	SHAPE	LENGTH		REMARKS	PG	IT	WT.
ONE	Z18A	EXPANSION ASSEMBLY						
1	pk	PL 6 x 3/8	56	3 7/8				
1	pm	PL 8 7/8 x 3/8	56	10				
1	pc	PL 9 x 3/4	57	4 1/8				
1	pg	PL 26 x 1½	58	4½	CUT BOTH PLS			
1	ph				FROM ONE PL			
31	n1	¾ ϕ ROD	1	8½	BEND			
91	n2	do	5	0				
7	na	PC 18 I 70	1	6¾				
74	ga	PL 3½ x ½	0	8 5/8	AVERAGE HGT			
28	f1	FL 6 x 1/8	1	1				
2	ga48	PL 6¼ x ½	0	11				

NOTES

FOR SECTIONS "A-A", "B-B", "C-C" AND TOOTH PL DETAIL REFER TO SHEET 18-S

NOTES:

HOLES: 15/16" dia. EXCEPT AS NOTED

[redacted]:

FABRICATION: All fabrication in accordance with Maine Turnpike Authority Specifications

PAINT: One shop coat per specifications EXCEPT AS NOTED

WELDING: All welding in accordance with Specifications for Welded Highway & Railway Bridge Design Construction and Repair of American Welding Society. All welders must be qualified

APPROVALS

APPROVED

By GSK Date 4-1-55

1	2	S	D	DR	CH
		4/8	6/14	LVG.	JE

EXPANSION JOINT DETAILS - FALMOUTH SPUR INTERCHANGE

MAINE TURNPIKE AUTHORITY

SECT. 2 PORTLAND TO AUGUSTA STRUCTURE - 18

MAINE TURNPIKE

Howard, Needles, Tammen & Bergendoff Consulting Engineers

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

Jo. No. 282

Sh. No. 18-S11