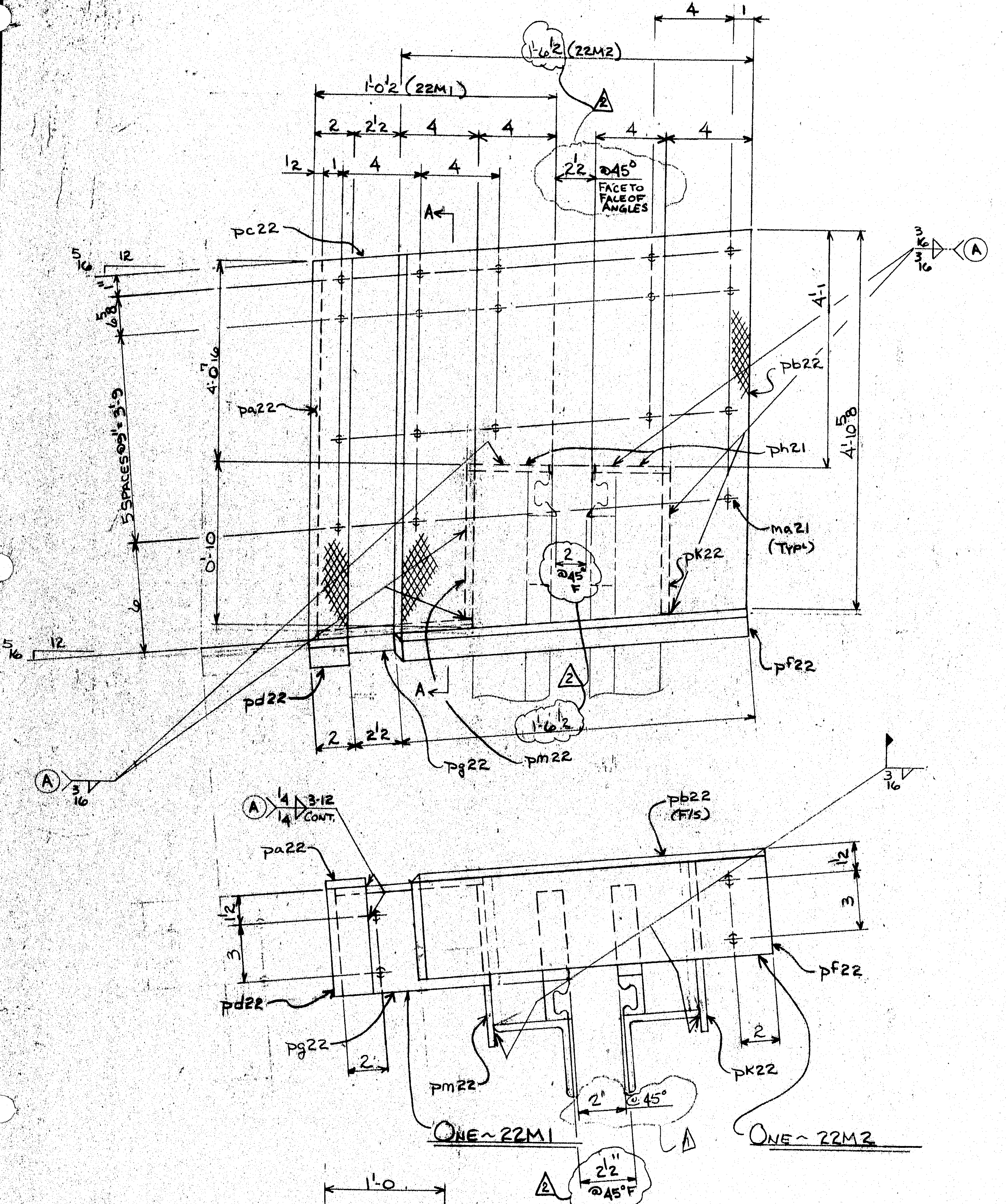
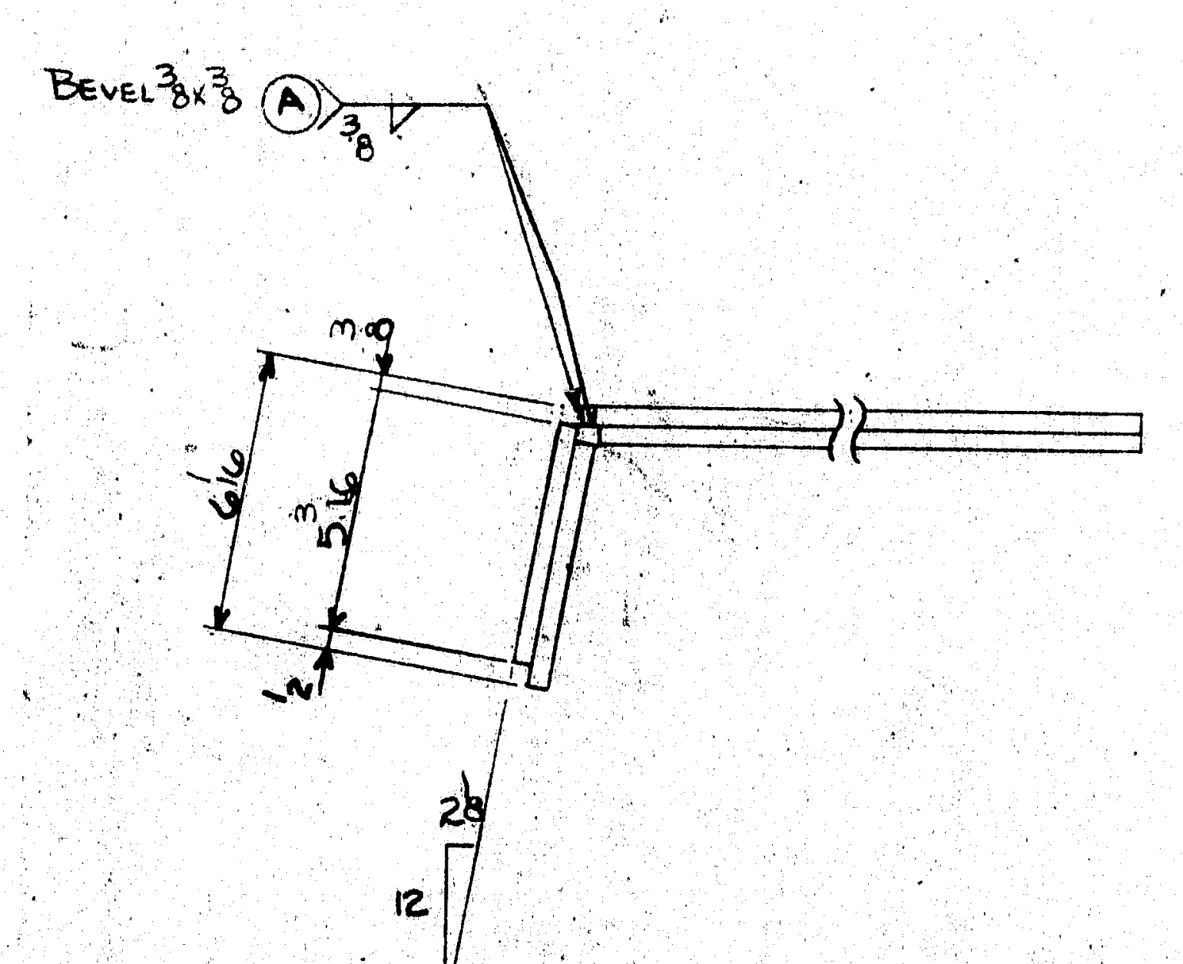
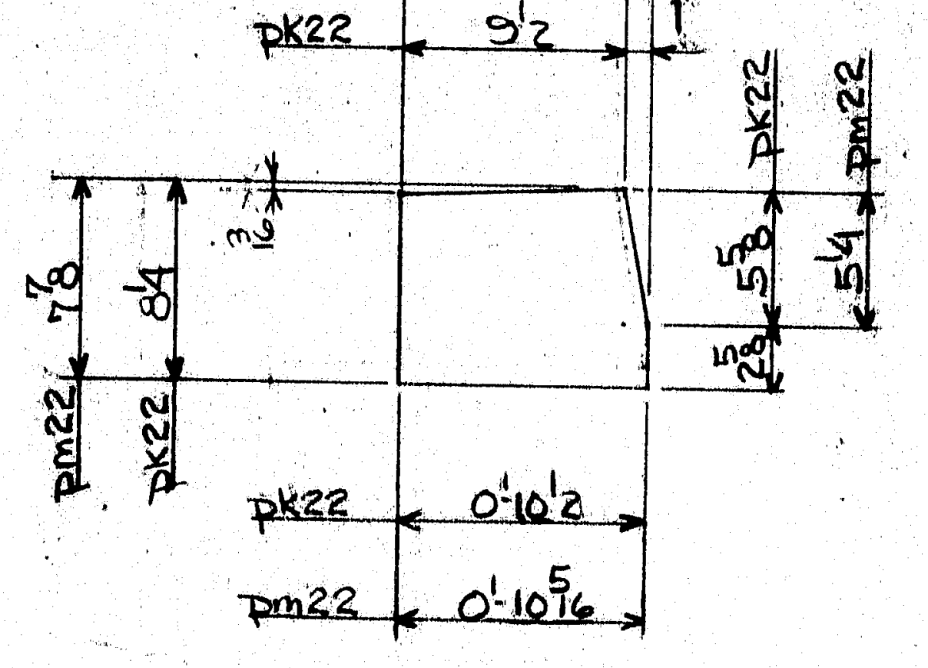
#47



Shop Note:
Do Not Weld 22M1
To 22M2.

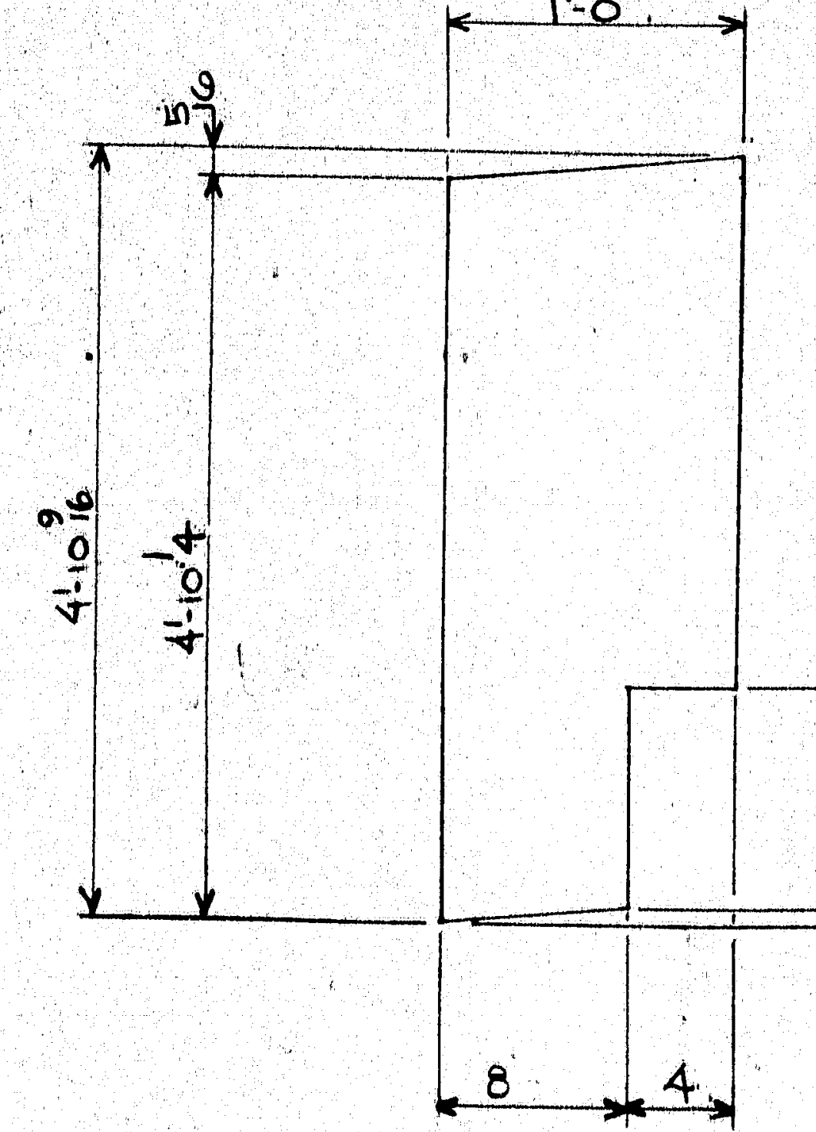


Section A-A



Detail of pk22

Detail of pm22



Detail of pc22

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS		WT.
22M1	1		Expansion Dam	5	0±					(112)		
	1	pa22	Chk'd PL ⅜ x 2	4	10 11/16	33600				B2E		14
	1	pc22	PL ⅜ x 12	4	10 9/16	Dom STF				Shape		75
	1	pd22	PL ⅜ x 5 11/16	0	2							1
	1	pg22	PL ⅜ x 5 5/16	0	8							5
	1	ph21	PL ¼ x 3½	0	4½							1
	1	pm22	PL ¼ x 7⅞	0	10 5/16					Shape		6
	22	ma21	½⌀ Conc. Anch.	0	8⅛					w/F.F.		10
22M2	1		Expansion Dam	5	0±					(152)		
	1	pb22	Chk'd PL ⅜ x 18½	4	11 1/16	Typ Dom STF				B2E & Bevel 1 Edge		128
	1	pf22	PL ⅜ x 5 3/16 ②	1	6½					B1E		10
	1	ph21	PL ¼ x 3½	0	4½							1
	1	pk22	PL ¼ x 8¼	0	10½					Shape		6
	15	ma21	C.A.									7

~ Welding Procedure ~

Ⓐ FC-2F-03P Ⓐ
SM-2F-01P

USE CUT LIST

Work With M-CIW Dwg 20 & 21

REVISED
FOR ERECTION

Added Dimensions Pay Item # 520.21
② Changed 1'-6 to 1'-6½
① Revised Dim. on pb22
Ⓐ Revised Per Approval

WEIGHED BY. Dl | CHK'D BY | TOTAL WEIGHT 264#

WARNING
WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PRINT DISTRIBUTION Rev 7-27-89
PC 6-28-89 [illegible]

7P	FA	3-23-89
7P,25	FA Ⓐ	5-16-89
	APVD	6-22-89
4R	Shop	6/27/89
7P,25	Field	6-28-89
① 7P,25	Field	7/13/89
① 1P	Shop	7/13/89
② 7P,25	Field	7/11-89
25	FYU	7-21-89
2R	Shop ②	7/27/89
25	Field	7-28-89
	②	DLS 7/27/89
	①	KB 7/13/89
	REV. Ⓐ	DLS 5-9-89
	CHK'D	3/23/89
	DRWN	DLS 3-21-89

MATERIAL A36
HOLES ——
BOLTS ——
ELECTRODE See Weld Procedure
SURFACE PREP SSPC-SP6
REF. DWG. 8,9 OF 20
PRIMER 3 Coats of Basic Lead Silico Chromate Paint To
FINISH Meet Me. D.O.T. Sec. 708.02 Std. Spec.
4 Mils Wet Film Ea. Coat ~ Orange

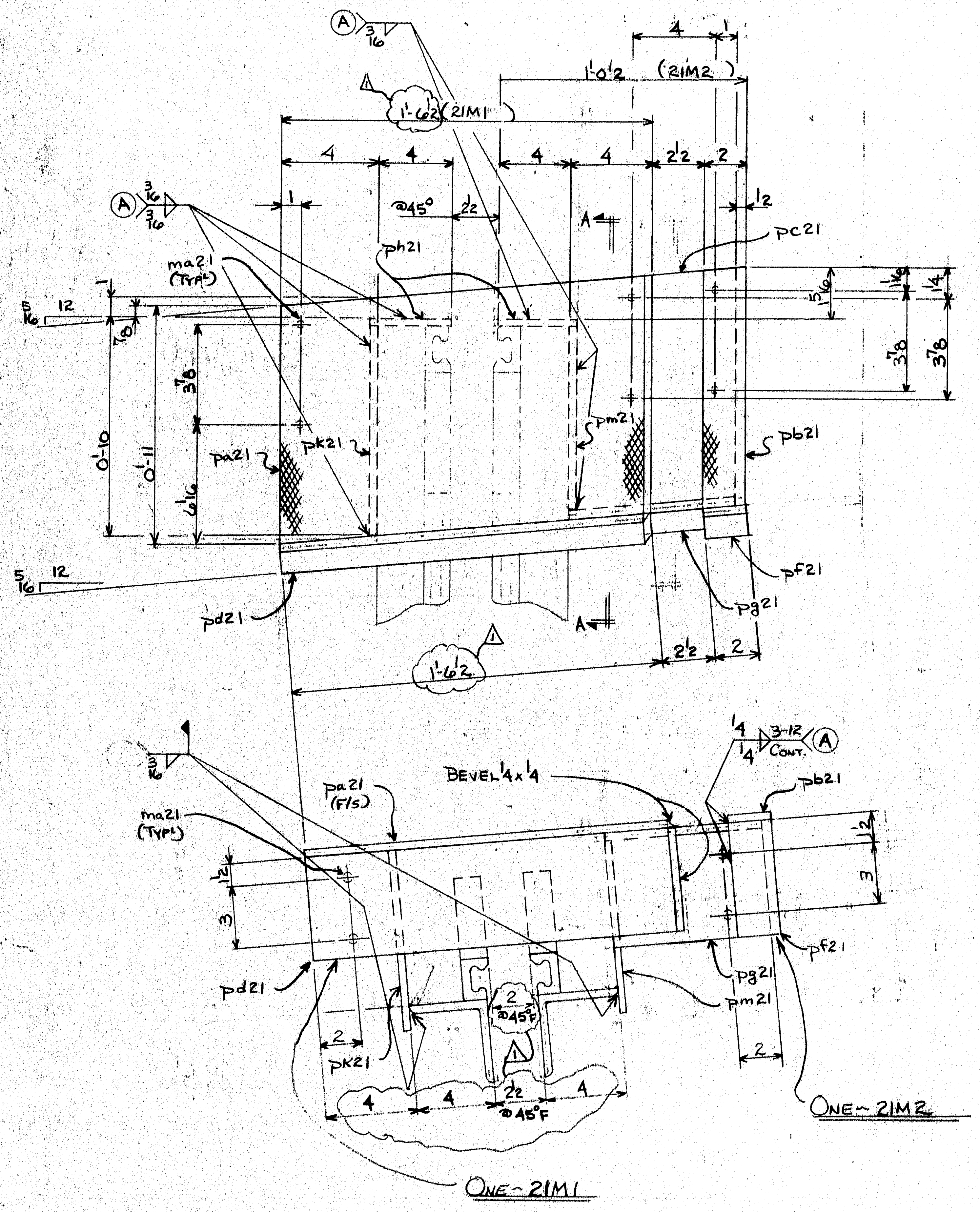
MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION Expansion Dam Detail
PROJECT Sandy River Bridge Proj. No. BH-025-2(46)
LOCATION New Sharon, Me.
DESIGNER Me. D.O.T.
CUSTOMER Callahan Bros., Inc.
JOB NO. 89-670-4
DWG. NO. 22
REV. ②

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
AUG 16 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

OFFICE COPY Ⓐ
RECEIVED JUL 31 1989
CHECKED BY
REVIEWED BY 8/16/89

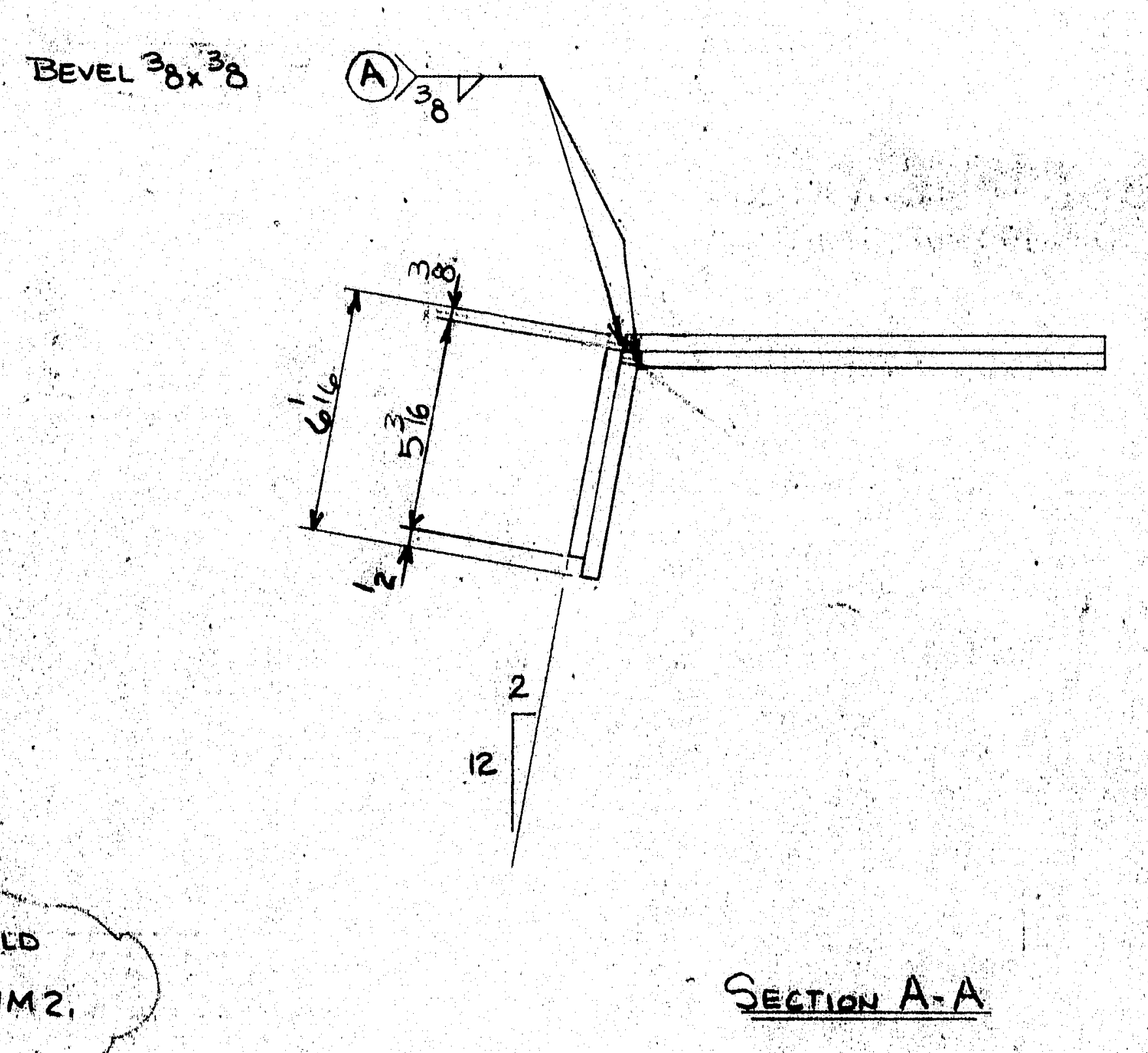
101~134



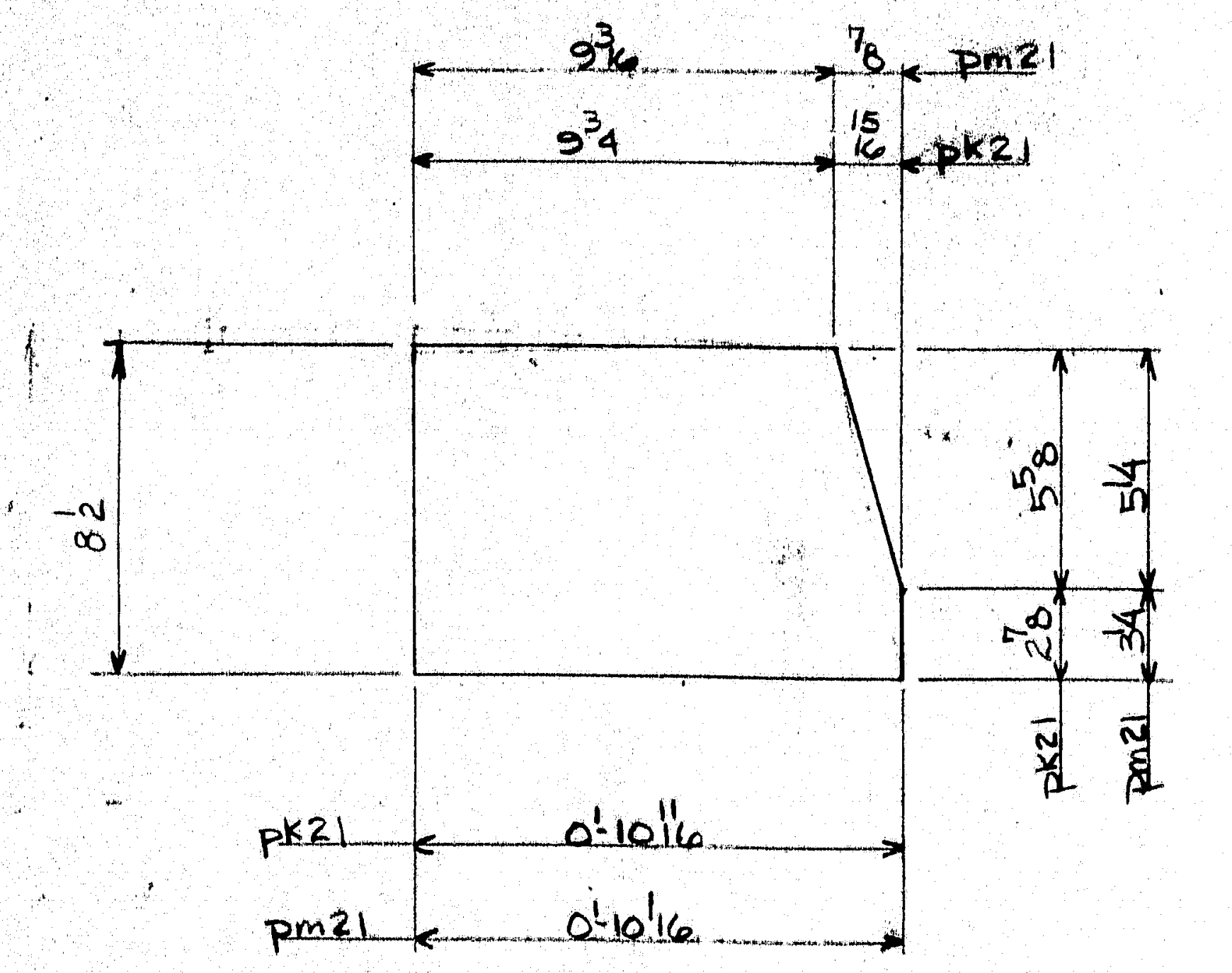
ONE ~ 21M1

ONE ~ 21M2

DO NOT WELD 21M1 TO 21M2.

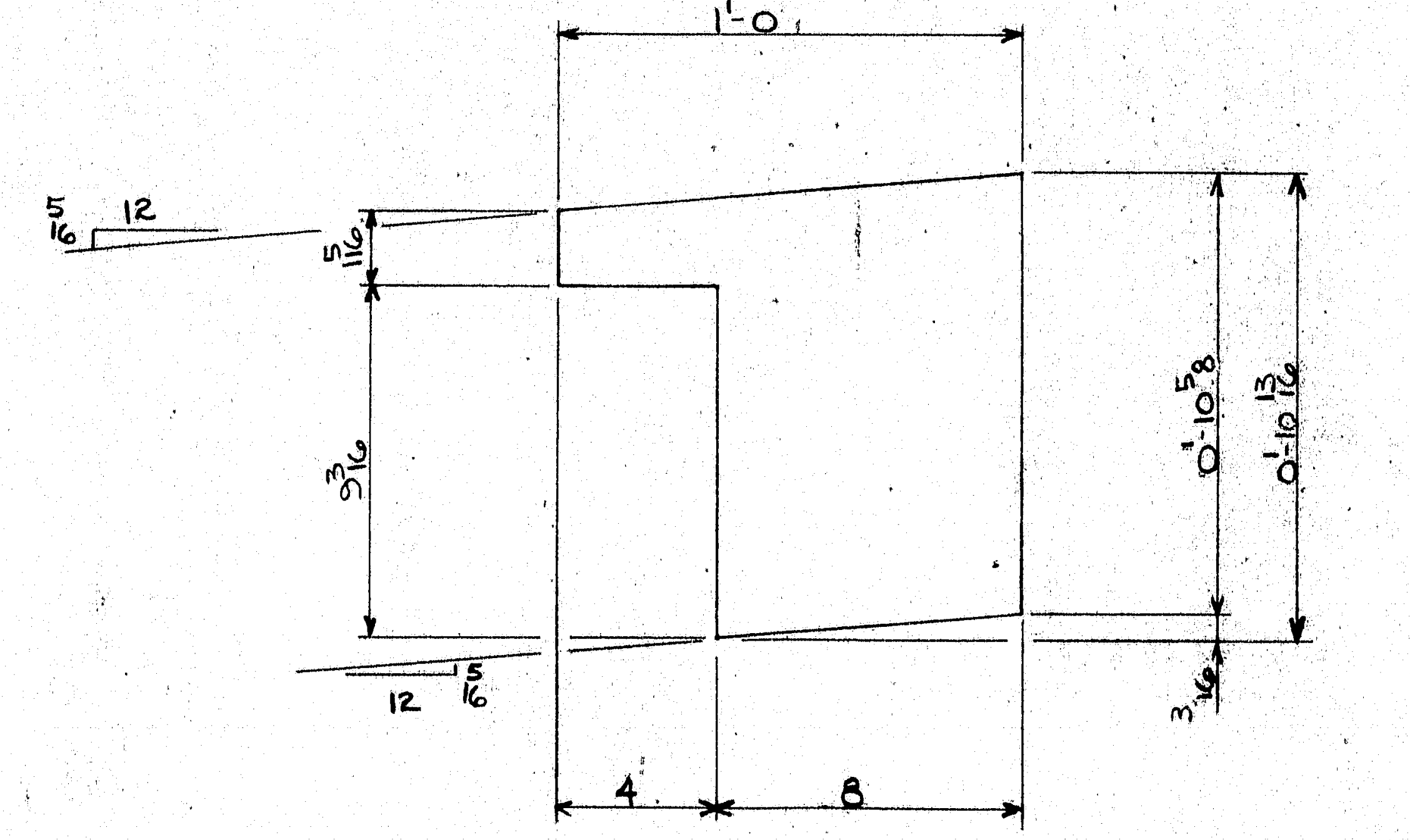


SECTION A-A



DETAIL OF pk21 (AS NOTED)

DETAIL OF pm21 (AS NOTED)



DETAIL OF pc21

101-135

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS	WT.
21M1	1		EXPANSION DAM	2	0±					(42)	
	1	pa21	CHK'D PL 3/8 x 11 7/16	1	6 1/2	33600	DOM STK			B2E & BEVEL 1 EDGE	25
	1	pd21	PL 3/8 x 5 3/16	1	6 1/2	DOM STK					10
	1	ph21	PL 1/4 x 3 1/2	0	4 1/2						1
	1	pk21	PL 1/4 x 8 1/2	0	10 11/16					SHAPE	6
	4	ma21	1/2 Ø CONC. ANCH.	0	8 1/8					W/F.F.	1
21M2	1		EXPANSION DAM	2	0±					(31)	
	1	pb21	CHK'D PL 3/8 x 2	0	11 1/16					B2E	3
	1	pc21	PL 3/8 x 10 13/16	1	0					⊥ & SHAPE	14
	1	pf21	PL 3/8 x 2	0	5 11/16						1
	1	pg21	PL 3/8 x 5 5/16	0	8						5
	1	ph21	PL								1
	1	pm21	PL 1/4 x 8 1/2	0	10 11/16					SHAPE	6
	6	ma21	C.A.								1

TYP

~ WELDING PROCEDURE ~

(A) FC-2F-03P ⚠1
SM-2F-01P

USE CUT LIST

REVISED

WORK WITH M-CIW DWG 20 & 22

FOR ERECTION

PAY ITEM # 520.21

⚠A REVISED PER APPROVAL ⚠1 CHANGED 1'-6 TO 1'-6 1/2 & ADDED DIMENSIONS.

WEIGHED BY. DL CHK'D BY TOTAL WEIGHT 73 #

WARNING

WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
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AUG 16 1989
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K. Jacobs
WELDING ENGR.

PRINT DISTRIBUTION	
PC	6-26-89 REV 1 7-27-89
FA	3-23-89
FA ⚠A	5-16-89
APVD	6-22-89
SHOP	6/27/89
field	6-28-89
EVU	7/21/89
SHOP ⚠1	7/27/89
field	7-28-89

REV ⚠1	DLS 7/27/89
REV ⚠A	DLS 5-9-89
CHK'D	SKS 3/23/89
DRWN	DLS 3-18-89

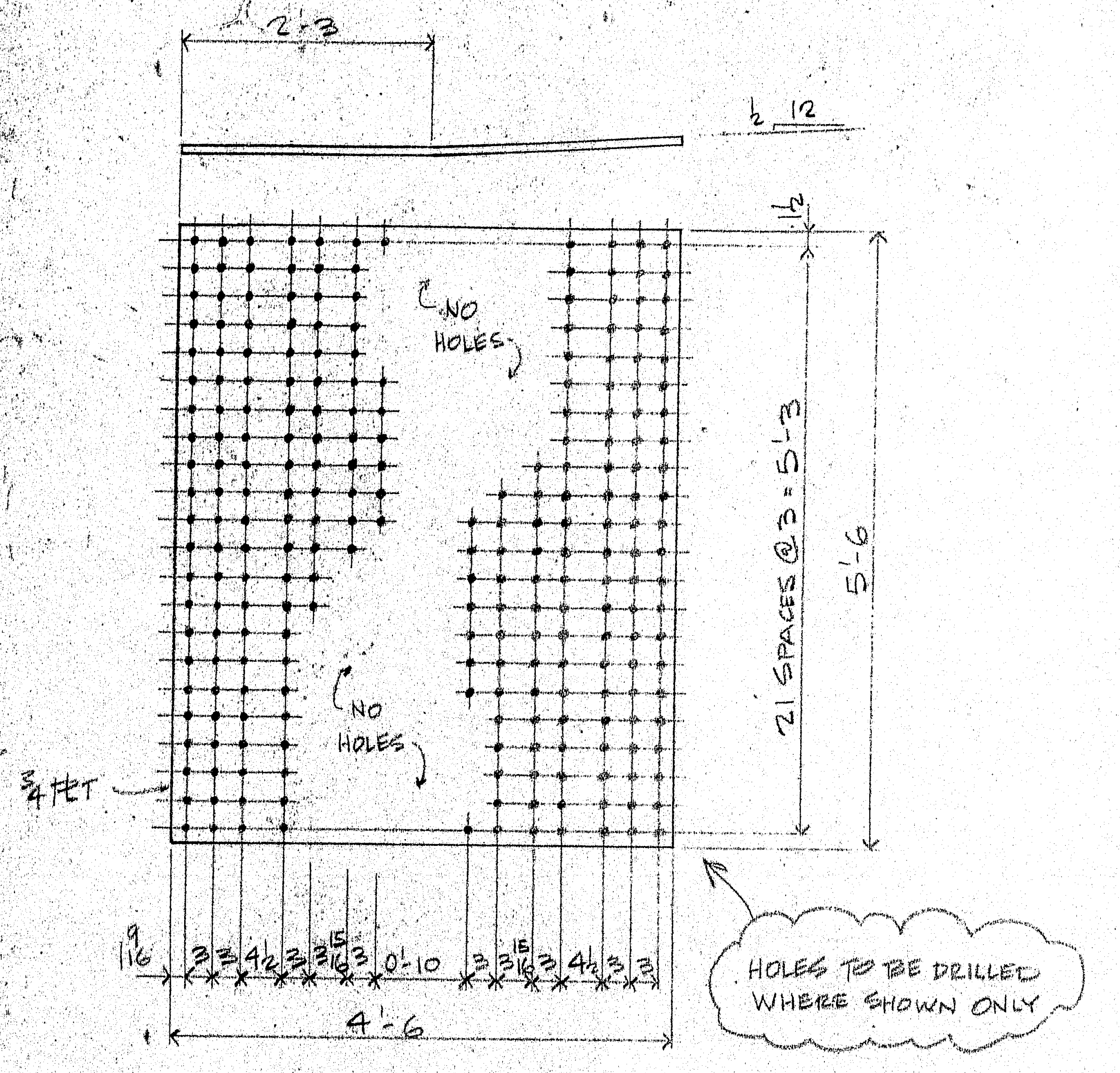
7R
7P, 25
3P
7R25
15
26

MATERIAL A36
HOLES
BOLTS
ELECTRODE SEE WELD PROCEDURE
SURFACE PREP SSPC-SP6
REF. DWG. 8, 9 OF 20
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET ME. D.O.T. SEC. 708.02 STD. SPEC.
4 MILS WET FILM EA. COAT ~ ORANGE

MAINE-CASCADE IRON WORKS

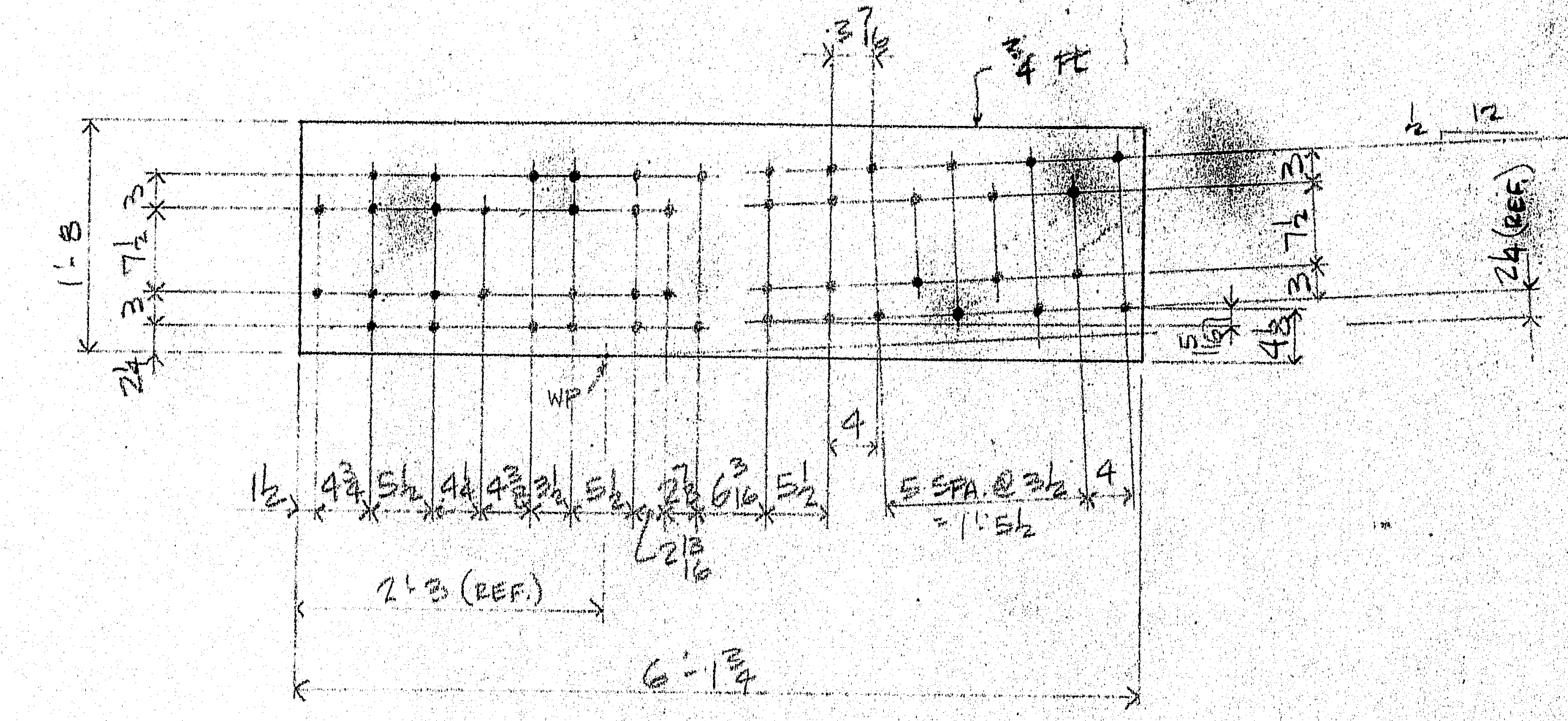
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION EXPANSION DAM DETAIL
PROJECT SANDY RIVER BRIDGE PROJ. NO. BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.
JOB NO. 89-670-4
DWG. NO. 21
REV. ⚠1



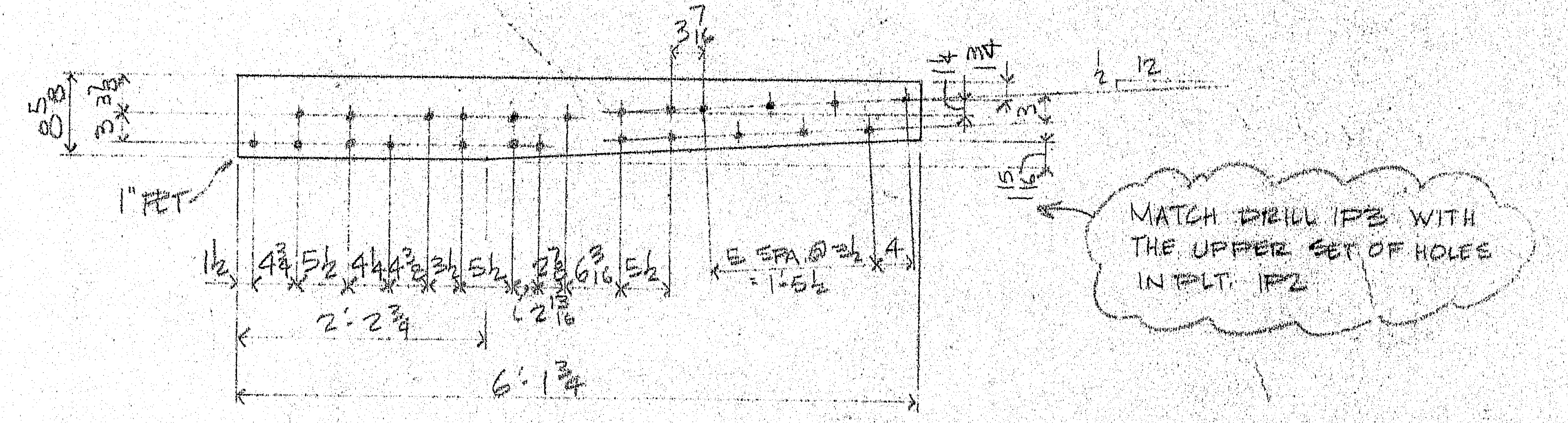
4-SPLICE PLATES-1P1

244-3/4

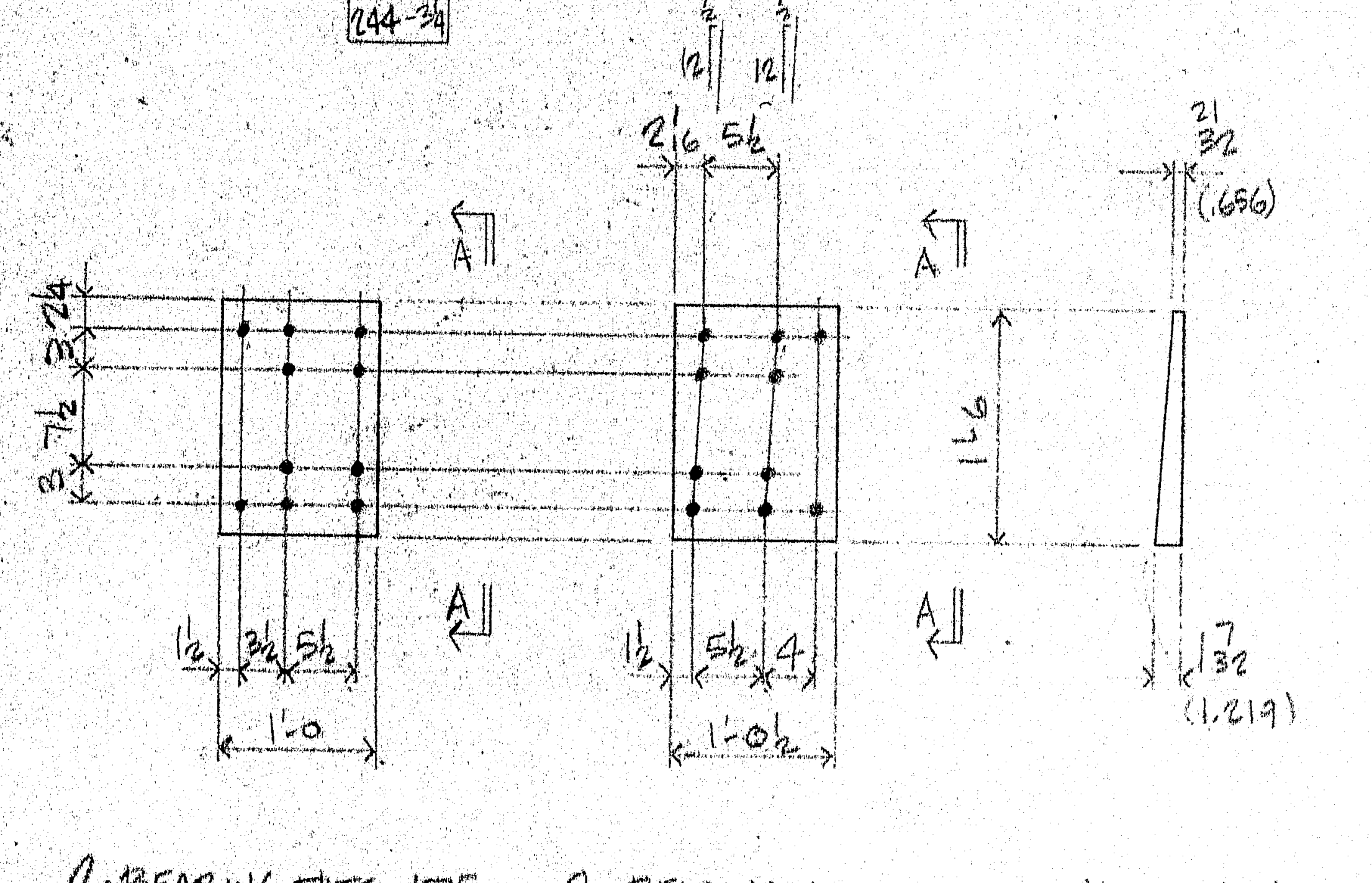


2-3/4" SPLICE PLTS-1P2 (TOP)

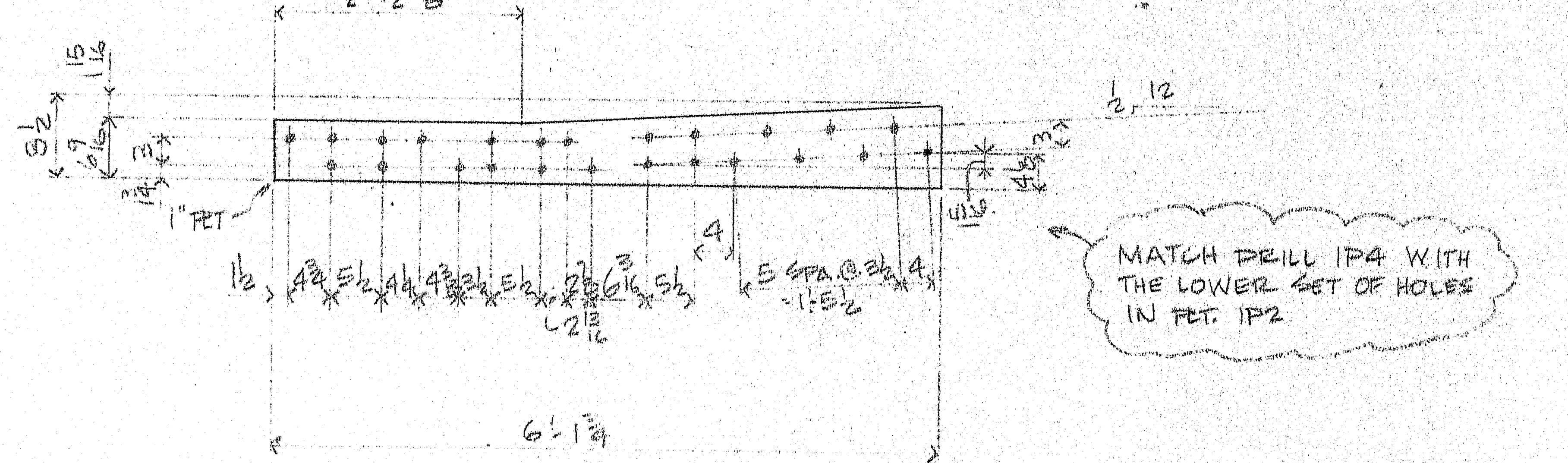
20-4 1/2 | 8-5 1/4 | 4-5 1/2 | 16-6 1/4


3 7/16
1/2 12
1" PLT
5 SPA. @ 3 1/2 = 1'-5 1/2
2'-2 3/4
6'-1 3/4
MATCH DRILL 1P3 WITH THE UPPER SET OF HOLES IN PLT. 1P2

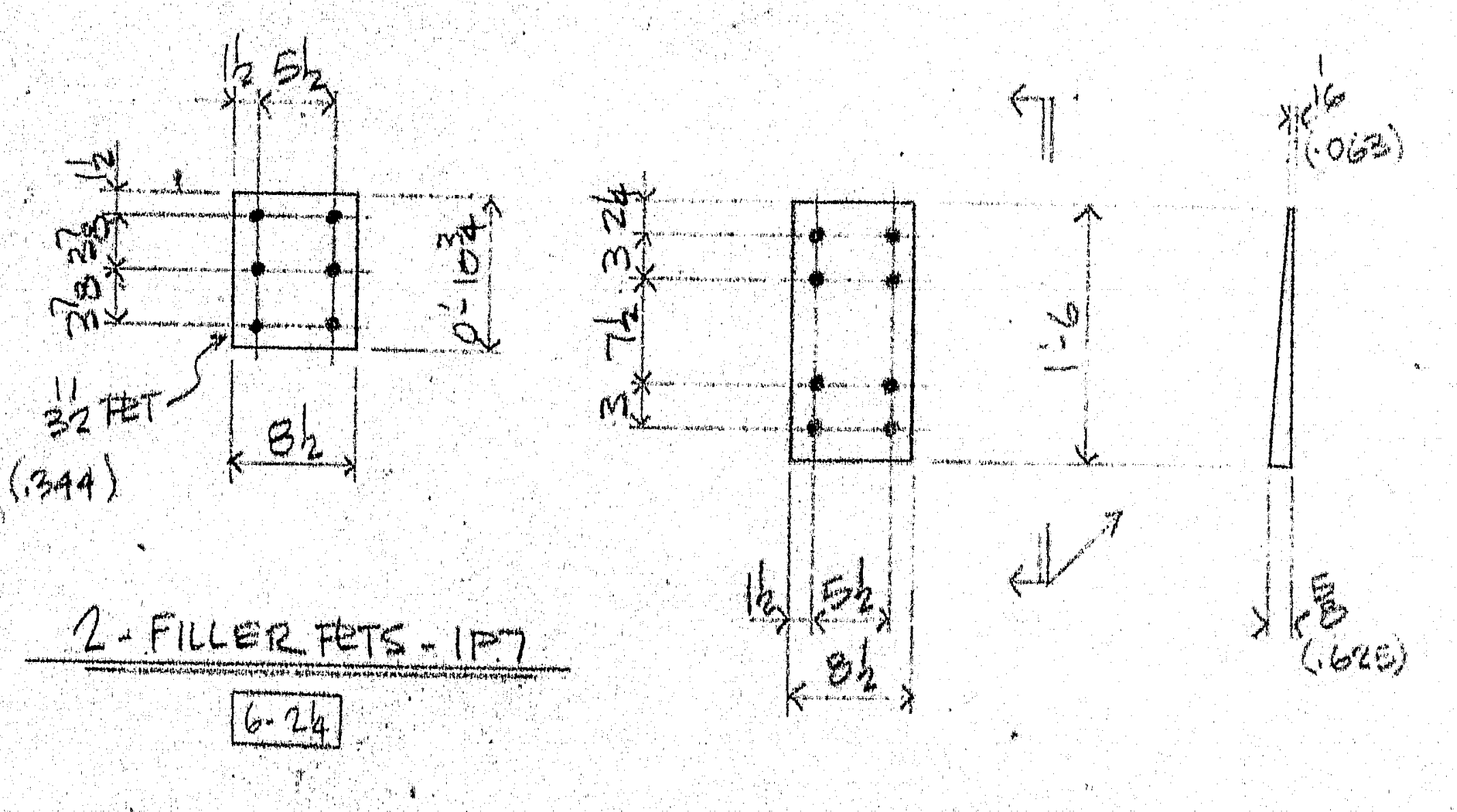
2-1" SPLICE PLTS-1P3 (TOP)



2-BEARING PLTS-1P5   2-BEARING PLTS-1P6   VIEW A-A


2'-2 7/8
1/2 12
1" PLT
5 SPA. @ 3 1/2 = 1'-5 1/2
6'-1 3/4
MATCH DRILL 1P4 WITH THE LOWER SET OF HOLES IN PLT. 1P2

2-1" SPLICE PLTS-1P4 (TOP)



2-FILLER PLTS-1P7

6-2 1/4

2-FILLER PLTS-1P8

101-136

FIELD:
493-7/8ϕ x 2 1/4
35- x 2 1/4
45- x 4 1/4
16- x 5 1/4
8- x 5 1/2
32- x 6 1/4

MATERIAL SCHEDULE

47

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS		WT.
1P1	4		PL 3/4 x 54	5	6	33077	cut to size			BENT CVN (1354)		3029
1P2	2		PL 3/4 x 20	6	1 3/4					SHPD CVN (313)		627
1P3	2		PL 1 x 8 5/8	6	1 3/4					SHPD CVN (180)		360
1P4	2		PL 1 x 8 1/2	6	1 3/4					SHPD CVN (175)		355
1P5	2		PL 1 1/4 x 12	1	6	33073	cut to SIZE			√ (77)		153
1P6	2		PL 1 1/4 x 12 1/2	1	6					√ (80)		159
1P7	2		PL 3/8 x 8 1/2		10 3/4	STOCK	1	49x20'-0		(32) (Domestic-33005) √ (10)		19
						crop to 2P7, 2P8, 4P4, 4P5 & 4P6						
1P8	2		PL 5/8 x 8 1/2	1	6	33073	cut to Size			√ (27)		54

FIELD BOLTS FOR DWGS 1-4

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM	REMARKS	WT.
	35		7/8ϕ BOLTS		2 1/4	33074	Bought Out / Shipped direct to site	W/N & W	—
	905				3 1/4				—
	45				4 1/4				—
	220				4 3/4				—
	18				5 1/4				—
	18				5 1/2				—
	60				6 1/4				—

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
MAR 2 - 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

OFFICE COPY (A)
RECEIVED MAR 2 2 1989
CHECK
REVIEWED 3/23/89

(A) REV'D PER APP'L. ADDED FIELD BOLTS

BID ITEM # 504.70

WEIGHED BY. DW   CHK'D BY   TOTAL WEIGHT 4756#

WARNING

WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

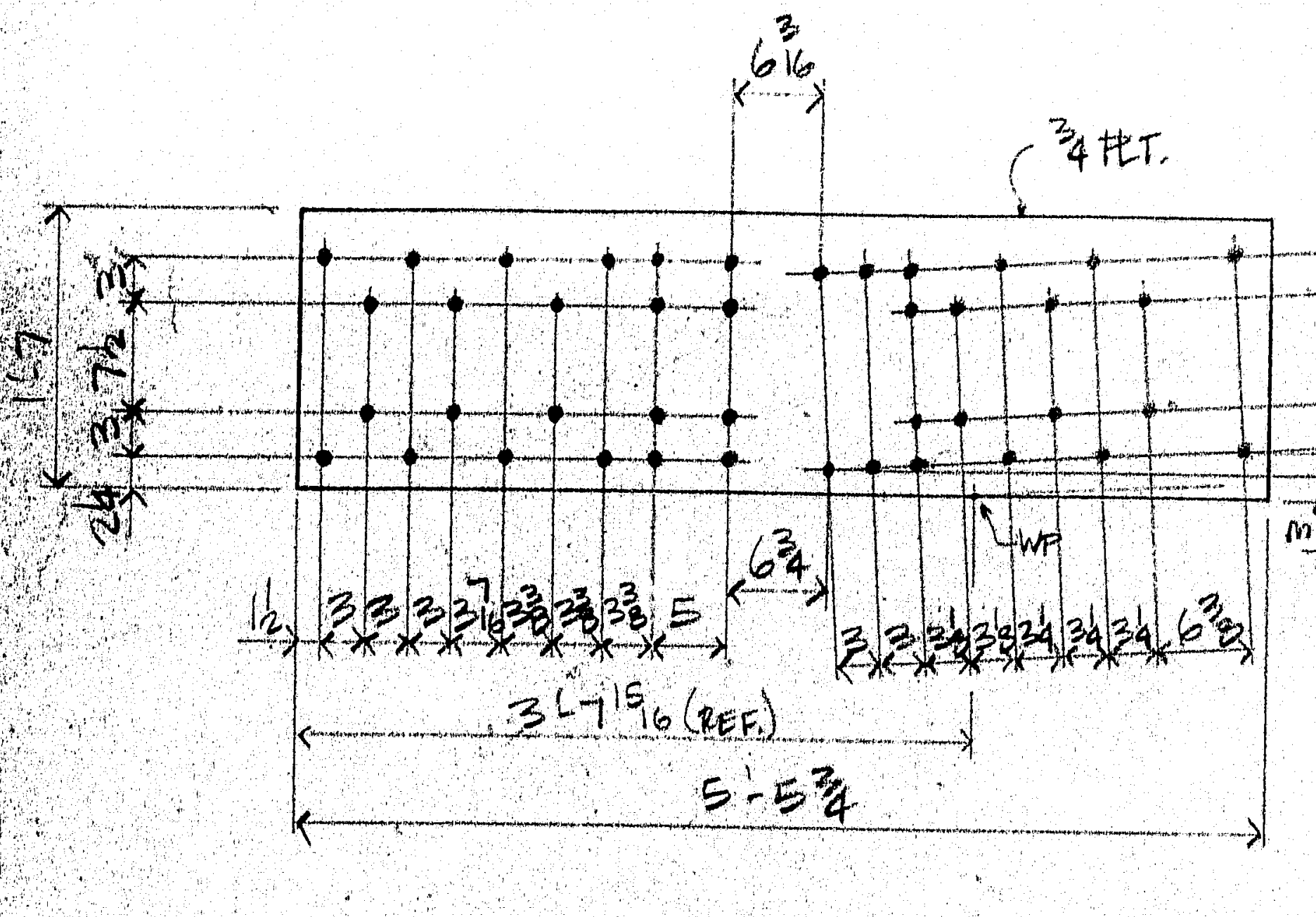
PRINT DISTRIBUTION	
FM	1-19-89
FA	2-2-89
APPD	3-14-89
SHOP	3-14-89
PC	3-14-89 Excluding Field Bolts
FIELD	3-15-89
W/CHR	3-20-89
REV. (A)	SJF 3/24/89
CHK'D	GAV 1/19/89
DRWN	SJF 1/12/89

MATERIAL A36
HOLES 15/16ϕ
BOLTS A325 TYPE 1
ELECTRODE —
SURFACE PREP SP6
REF. DWG. SHT. 7 OF 20
PRIMER
FINISH

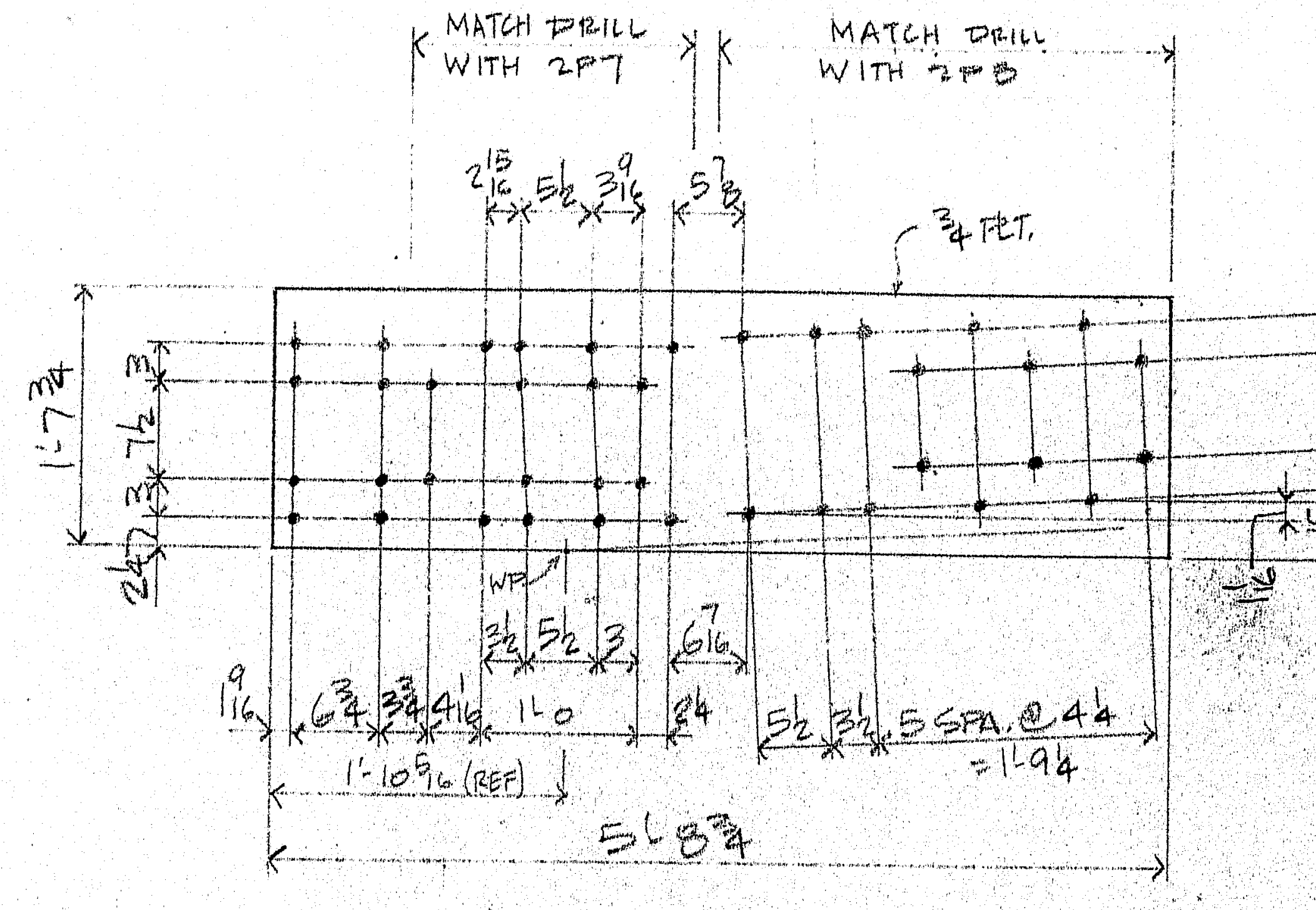
MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

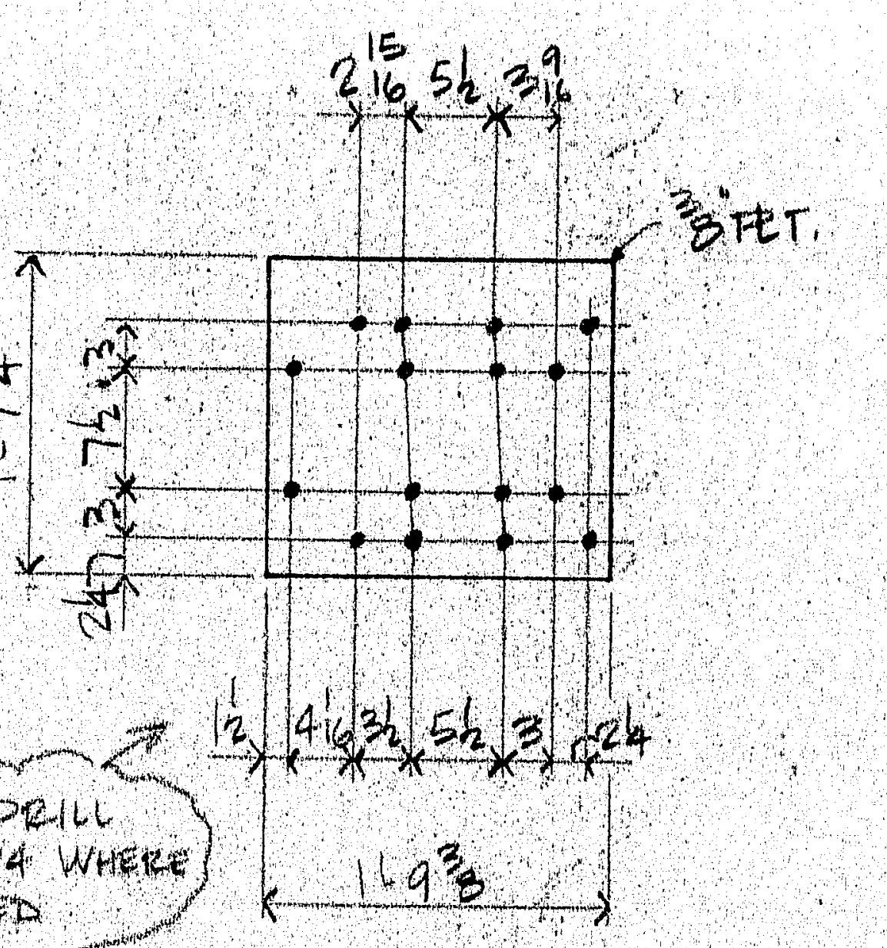
DESCRIPTION SPLICE PLTS FOR LINK RETROFIT
PROJECT SANDY RIVER BRIDGE PROJ. No. BH-025-4(26)
LOCATION NEW SHARON, ME
DESIGNER ME DOT
CUSTOMER CALLAHAN BROS.
JOB NO. 89-670-2   DWG. NO. 1   REV. (A)



2 - 3/4" SPLICE PLTS - 2P1
(LINK RETROFIT - BOTTOM)
42.43

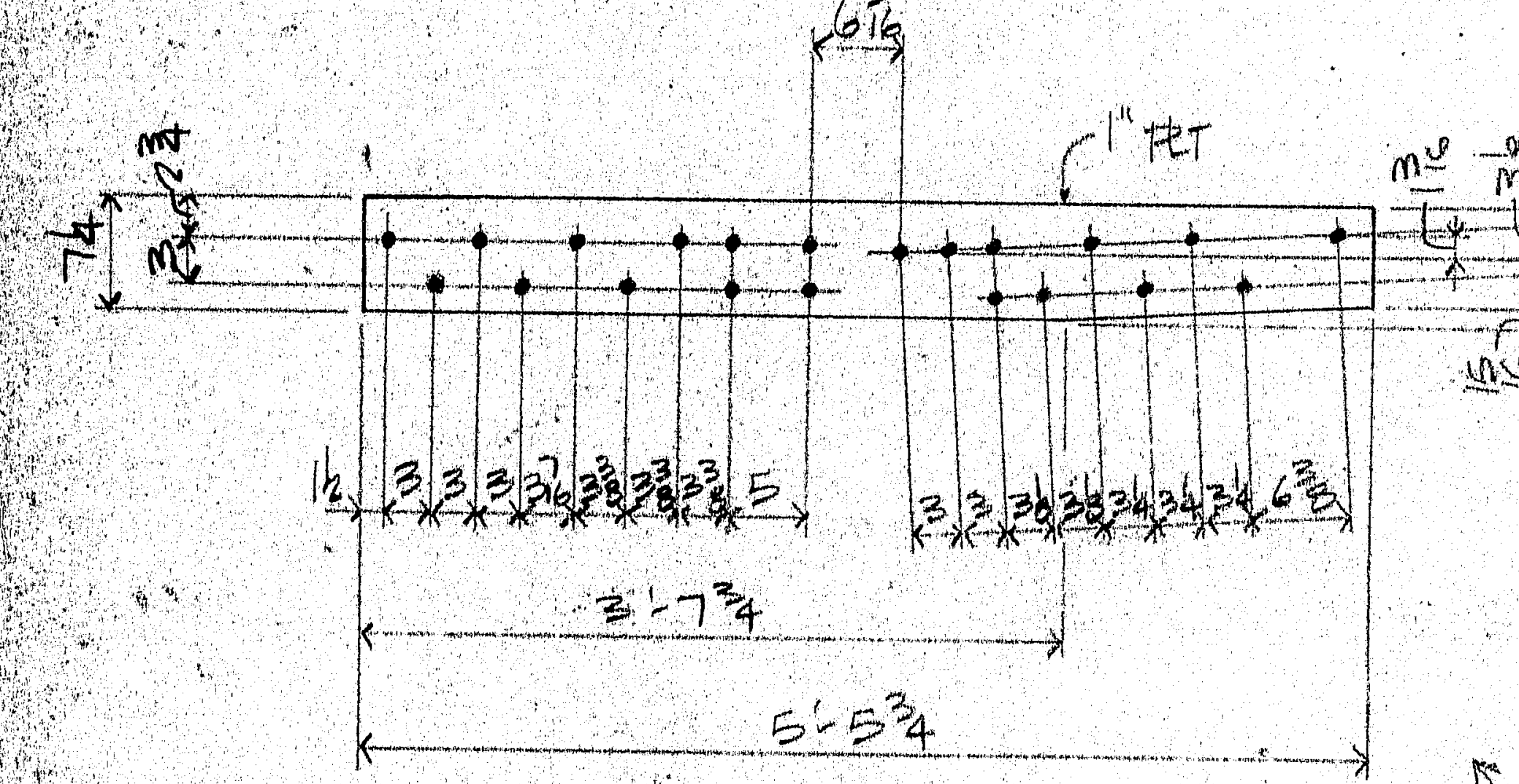


2 - 3/4" SPLICE PLTS. - 2P4
(PIN RETROFIT - TOP)
24.43 | 4.5 1/2 | 12.6 1/4



MATCH DRILL WITH 2P4 WHERE NOTED

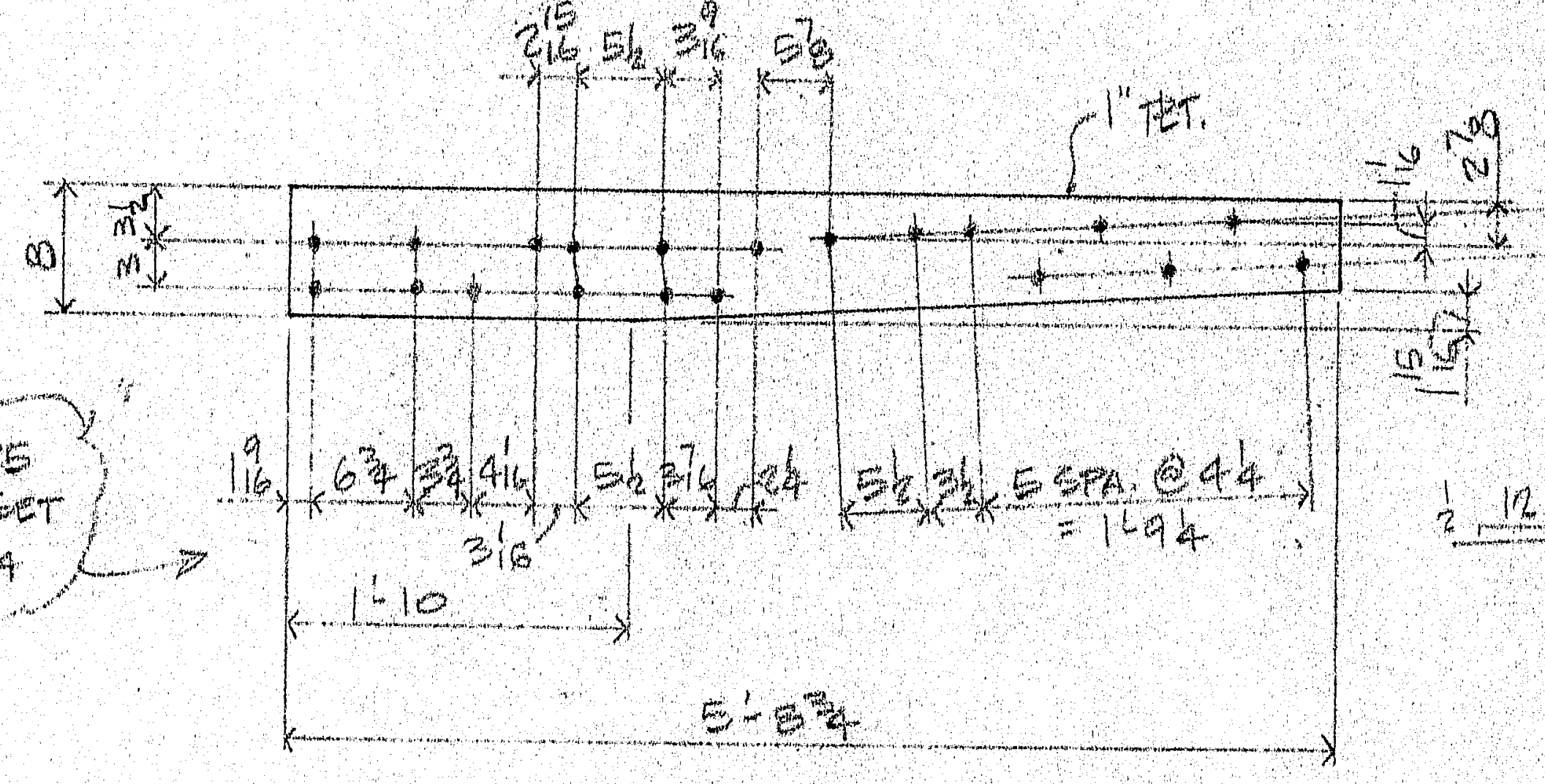
2 - FILLER PLTS - 2P7
(PIN RETROFIT - TOP)



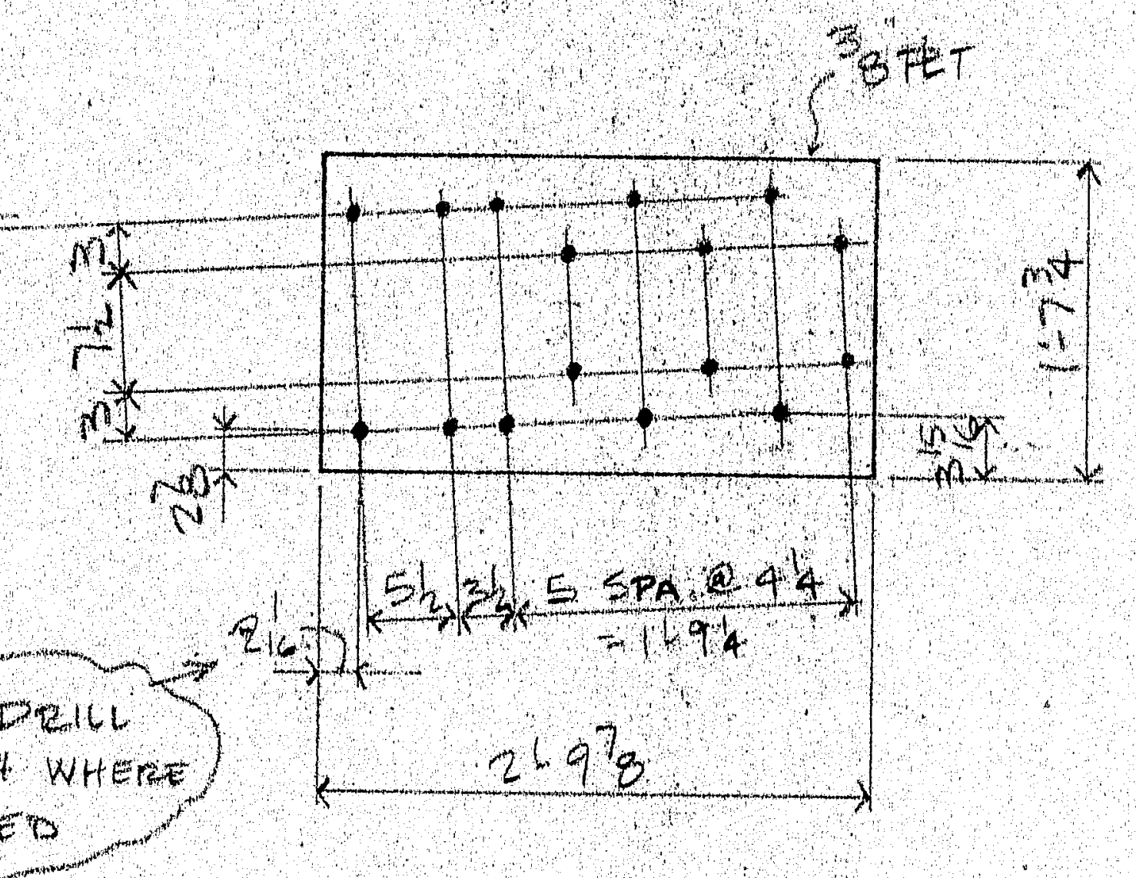
MATCH DRILL 2P2 WITH THE UPPER SET OF HOLES IN 2P1

2 - 1" SPLICE PLTS - 2P2
(LINK RETROFIT - BOTTOM)

MATCH DRILL 2P5 WITH THE UPPER SET OF HOLES IN 2P4

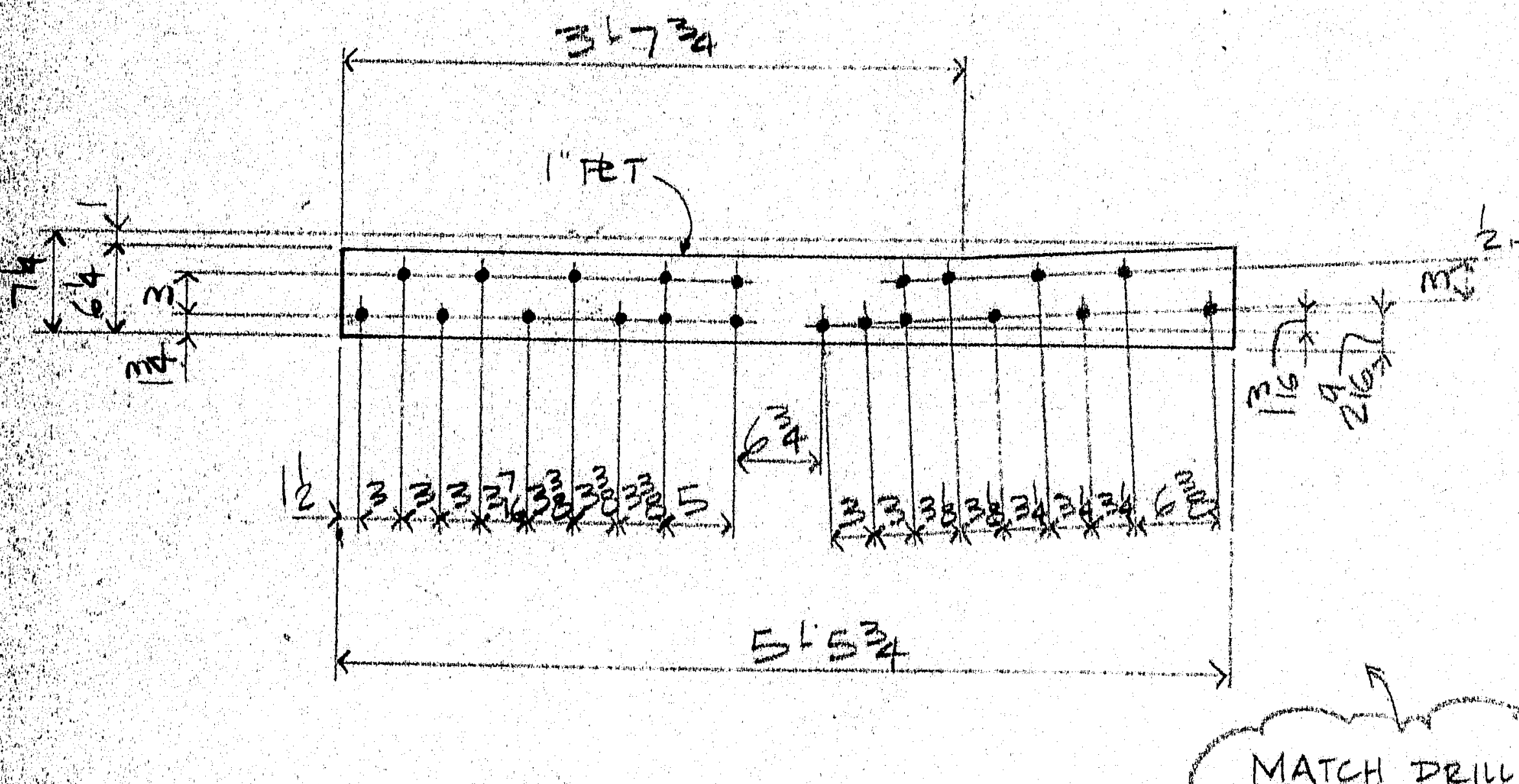


2 - 1" SPLICE PLTS - 2P5
(PIN RETROFIT - TOP)



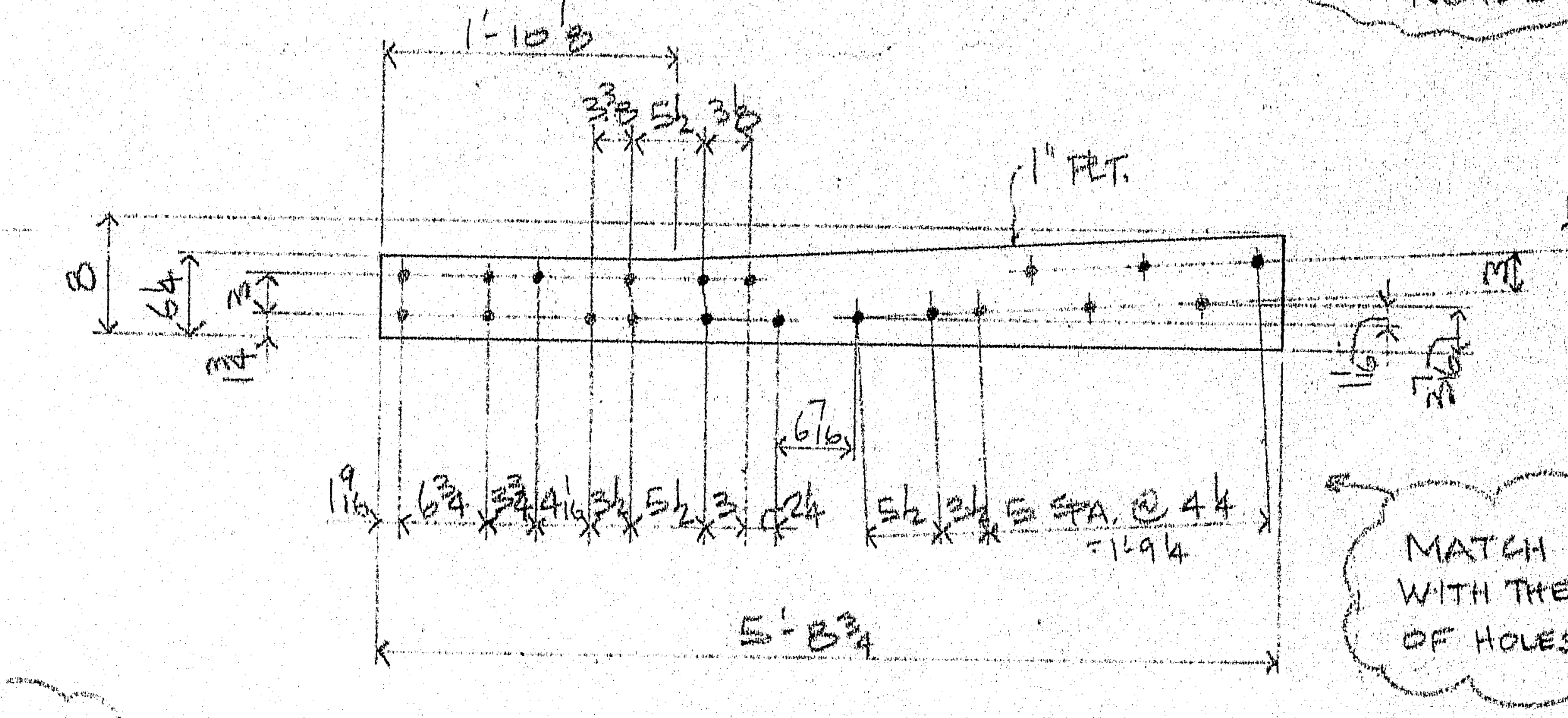
MATCH DRILL WITH 2P4 WHERE NOTED

2 - FILLER PLTS - 2P8
(PIN RETROFIT - TOP)



MATCH DRILL 2P3 WITH THE LOWER SET OF HOLES IN 2P1

2 - 1" SPLICE PLTS - 2P3
(LINK RETROFIT - BOTTOM)



MATCH DRILL 2P6 WITH THE LOWER SET OF HOLES IN 2P4

2 - 1" SPLICE PLTS - 2P6
(PIN RETROFIT - TOP)

FIELD:
132 - 3/4 x 4 3/4
8 - | x 5 1/2
24 - | x 6 1/4

101-137

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS		WT.
2P1	2		PL 3/4 x 19	5	5 3/4	[illegible]	cut to size			(265) CVN		531
2P2	2		PL 1 x 7 1/4	5	5 3/4					SHPD (135) CVN		270
2P3	2		PL 1 x 7 1/4	5	5 3/4					SHPD (135) CVN		270
2P4	2		PL 3/4 x 19 3/4	5	8 3/4					(289) CVN		577
2P5	2		PL 1 x 8	5	8 3/4					SHPD (156) CVN		312
2P6	2		PL 1 x 8	5	8 3/4					SHPD (156) CVN		312
2P7	2		PL 3/8 x 19 3/4	1	9 3/8	Stock	crop from 1P7			(45)		90
2P8	2		PL 3/8 x 19 3/4	2	9 7/8					(71)		142

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
MAR 20 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

OFFICE COPY Ⓐ
RECEIVED MAR 22 1989
CHECKED
REVIEWED 3/23/89

Ⓐ REV'D PER APPL

BID ITEM # 594.70

WEIGHED BY. BKW	CHK'D BY	TOTAL WEIGHT	2,504#

WARNING

WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PRINT DISTRIBUTION

FA	1-19-89
FA	2-2?-89
APP'D	3-14-89
SHP'D	3-14-89
PC	3-14-89
FIELD	3-15-89
[illegible]	3-21-89

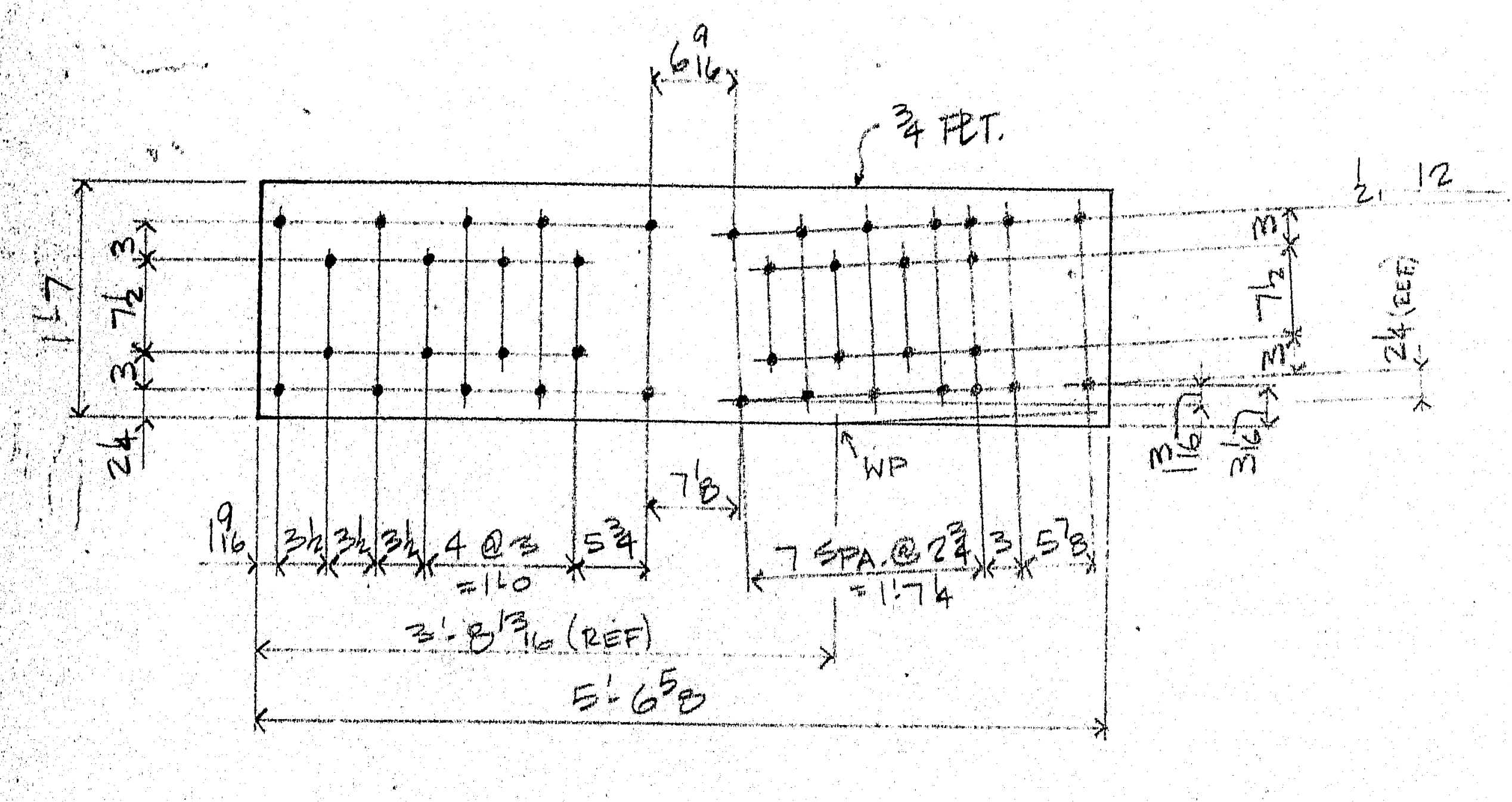
MATERIAL A36	HOLES 15/16 ϕ
BOLTS —	ELECTRODE —
SURFACE PREP SP6	REF. DWG. SHT. 7 OF 20
PRIMER	
FINISH	

MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION SPLICE PLTS FOR LINK & PIN RETROFIT
PROJECT SANDY RIVER BRIDGE PROJ. No. BH-025-4(26)
LOCATION NEW SHARON, ME
DESIGNER ME DOT
CUSTOMER CALLAHAN BROS.

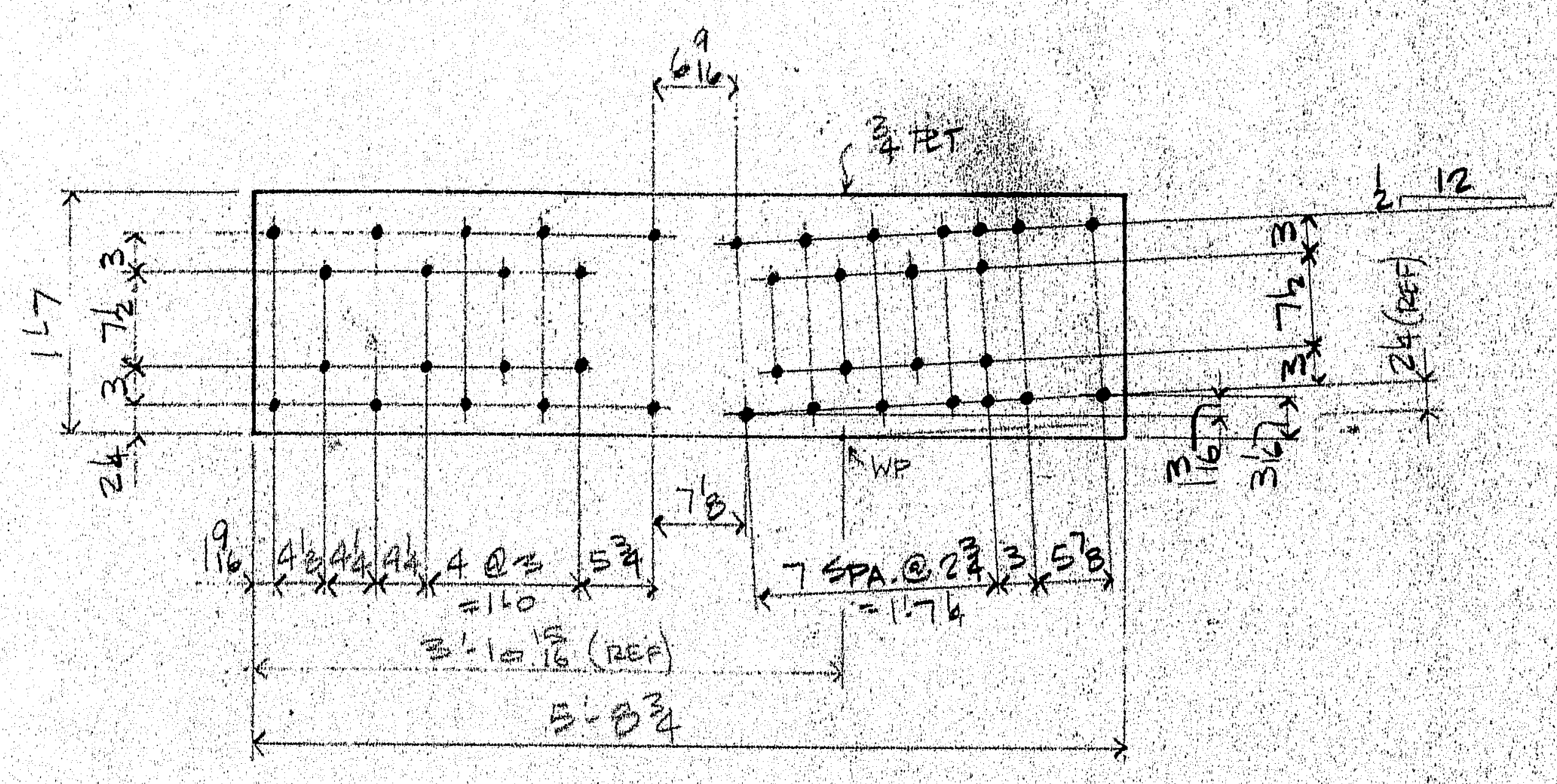
REV. Ⓐ SK 2/24/89
CHK'D GW 1/19/89
DRWN. SKS 1/16/89
JOB NO. 89-670-2
DWG. NO. 2
REV. Ⓐ



ONE - 3/4" SPLICE PLT. - 3P1

(PIN RETROFIT - BOTTOM - UP STREAM)

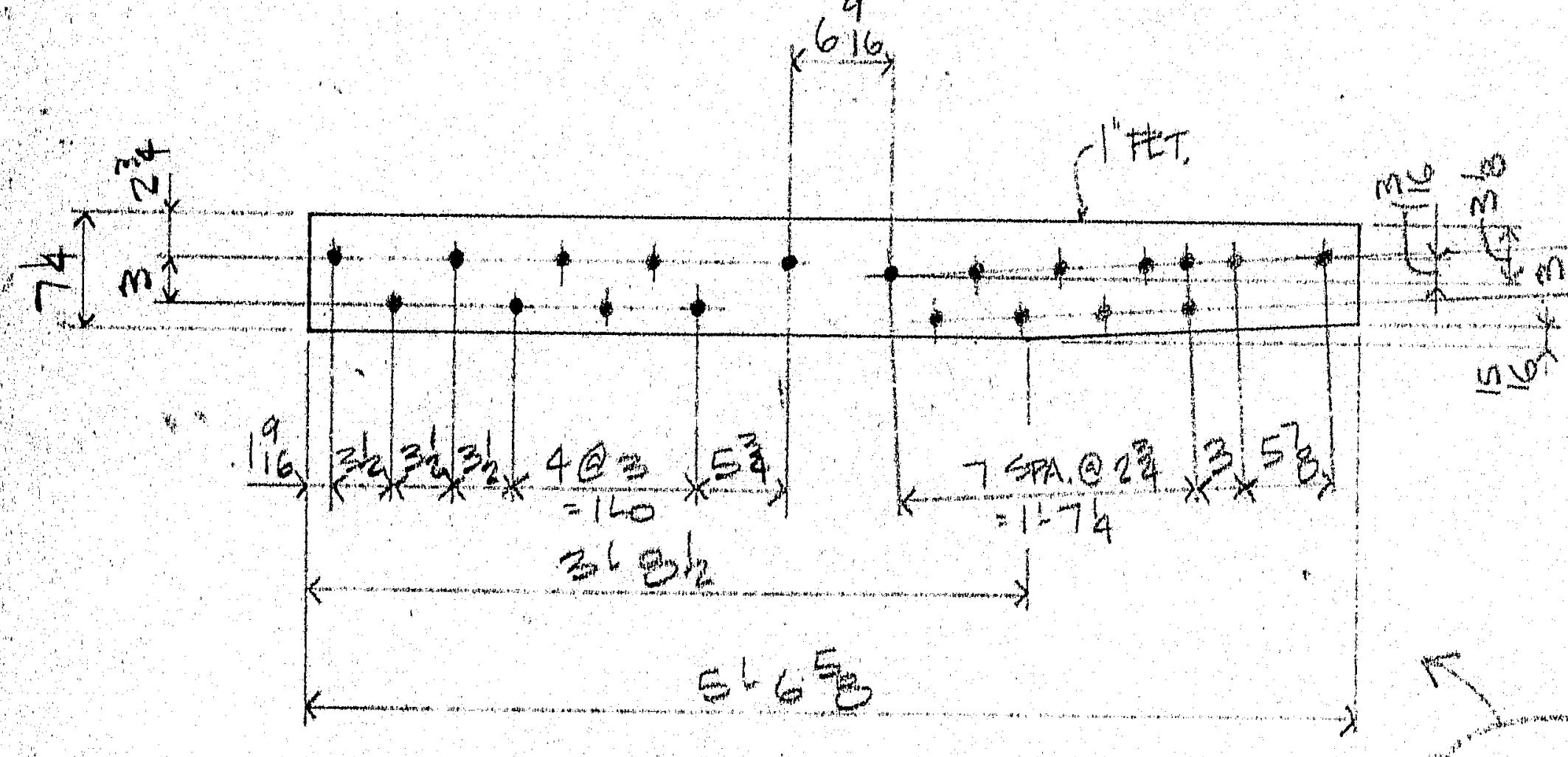
40.4 3/4



ONE - 3/4" SPLICE PLT. - 3P4

(PIN RETROFIT - BOTTOM - DOWNSTREAM)

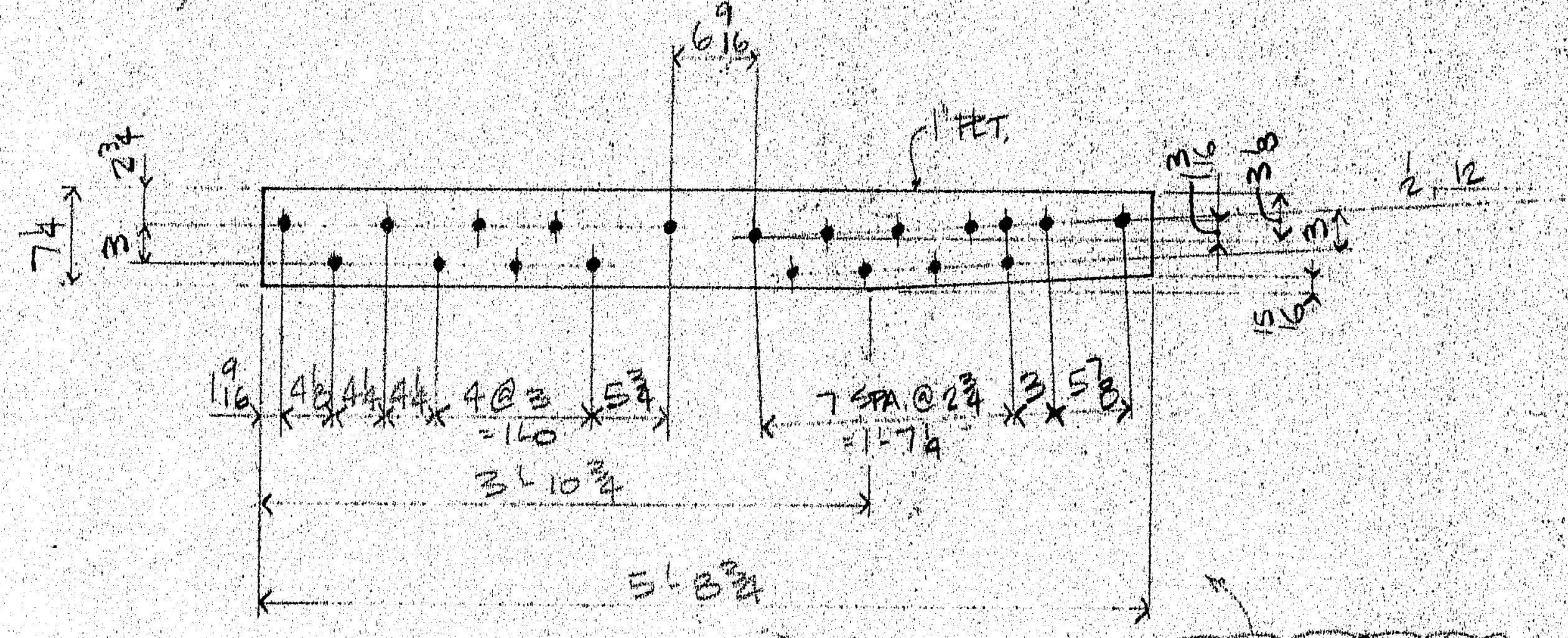
40.4 3/4



MATCH DRILL 3P2 WITH THE UPPER SET OF HOLES IN 3P1

ONE - 1" SPLICE PLT. - 3P2

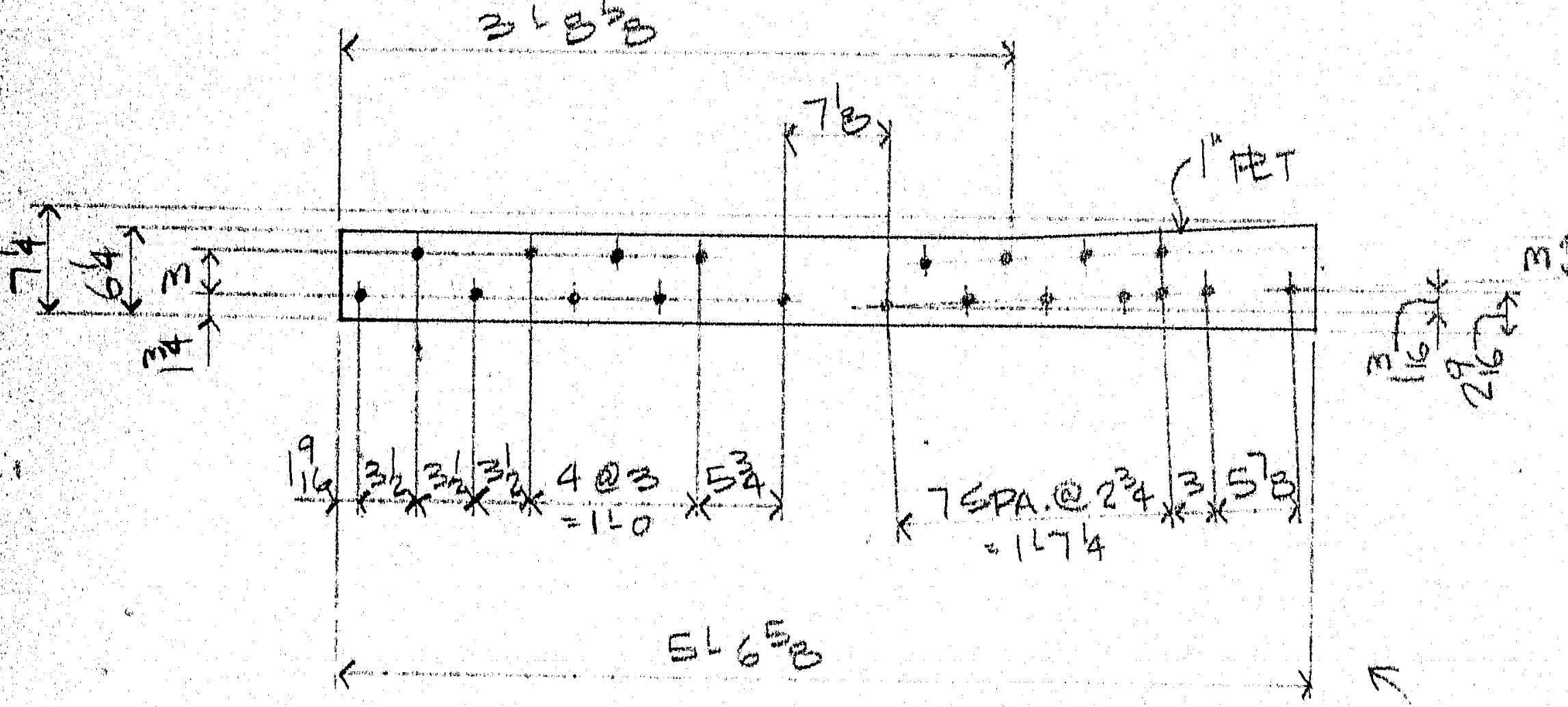
(PIN RETROFIT - BOTTOM - UP STREAM)



MATCH DRILL 3P5 WITH THE UPPER SET OF HOLES IN 3P4

ONE - 1" SPLICE PLT. - 3P5

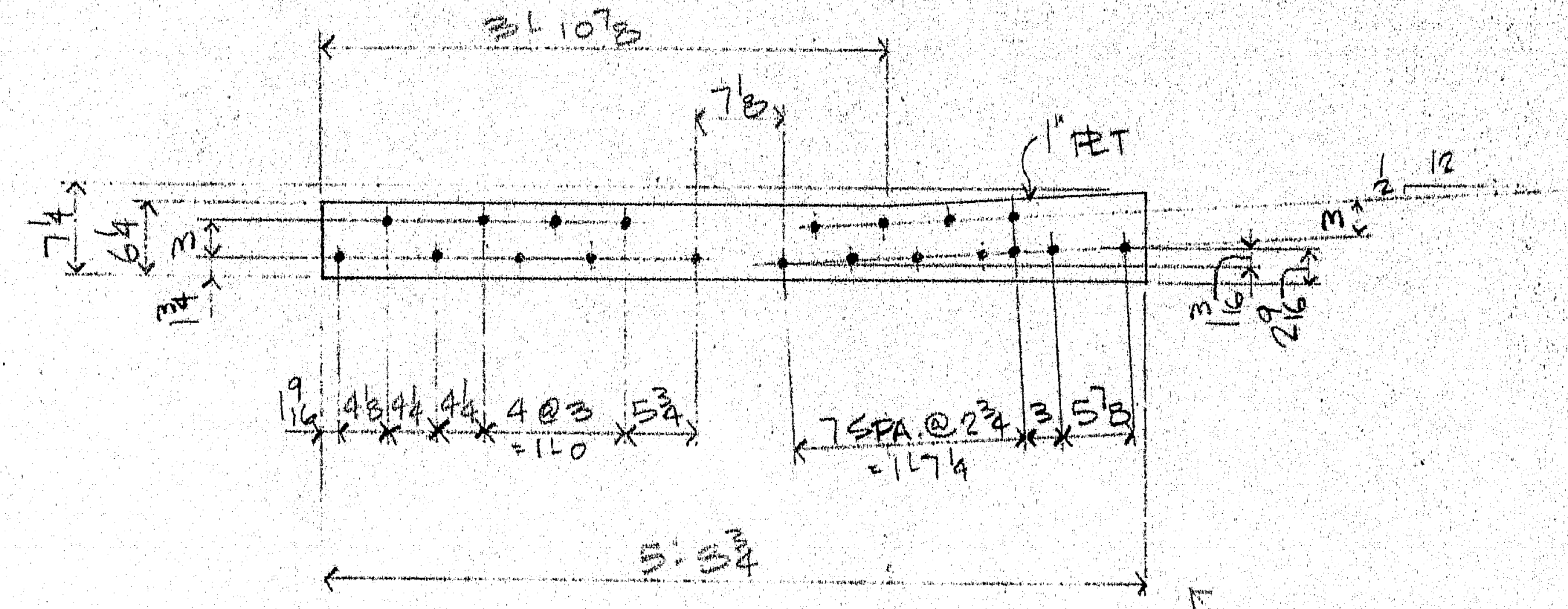
(PIN RETROFIT - BOTTOM - DOWNSTREAM)



MATCH DRILL 3P3 WITH THE LOWER SET OF HOLES IN 3P1

ONE - 1" SPLICE PLT. - 3P3

(PIN RETROFIT - BOTTOM - UPSTREAM)



MATCH DRILL 3P6 WITH THE LOWER SET OF HOLES IN 3P4

ONE - 1" SPLICE PLT. - 3P6

(PIN RETROFIT - BOTTOM - DOWNSTREAM)

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH		O OR S	CUT FROM			REMARKS		WT.
				FT.	IN.		NO.	FT.	IN.			
3P1	1		PL 3/4 × 19	5	6 5/8	30999	cut to Size			CVN		269
3P2	1		PL 1 × 7 1/4	5	6 5/8					SHPD		137
3P3	1		PL 1 × 7 1/4	5	6 5/8					SHPD		137
3P4	1		PL 3/4 × 19	5	8 3/4							278
3P5	1		PL 1 × 7 1/4	5	8 3/4					SHPD		141
3P6	1		PL 1 × 7 1/4	5	8 3/4					SHPD		141

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
MAR 23 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

OFFICE COPY (A)
RECEIVED MAR 22 1989
CHECKED
REVIEWED BY 3/23/89

(A) REV'D PER APP

BID ITEM No. 504.70

WEIGHED BY. | CHK'D BY | TOTAL WEIGHT 1103#

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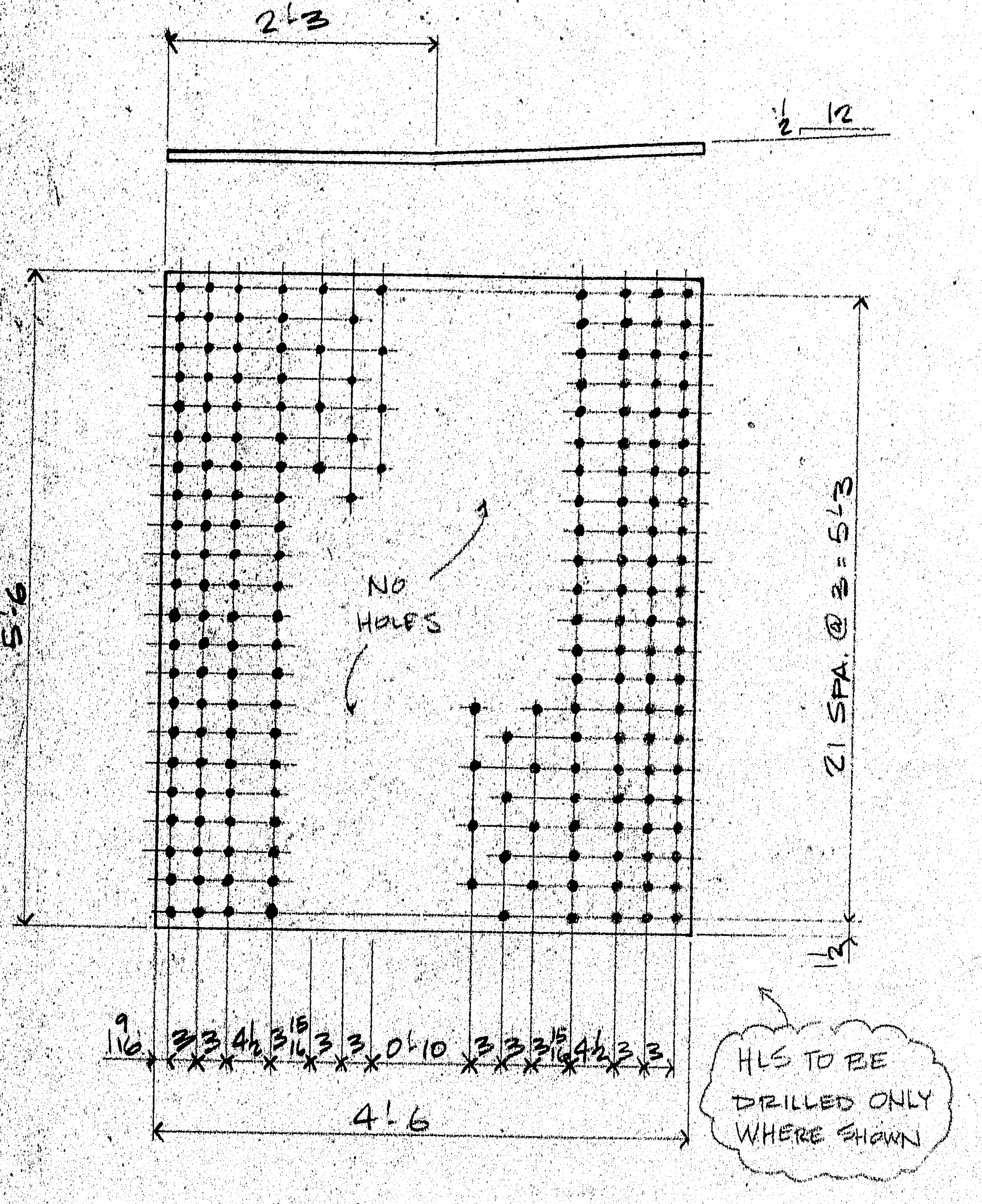
APP'D	3-14-89
SHOP	3-14-89
P.C.	3-14-89
FIELD	3-15-89
[illegible]	3-[illegible]-89

MATERIAL A36
HOLES 15/16 ⌀
BOLTS —
ELECTRODE —
SURFACE PREP SP6
REF. DWG. SHT. 7 OF 20
PRIMER
FINISH

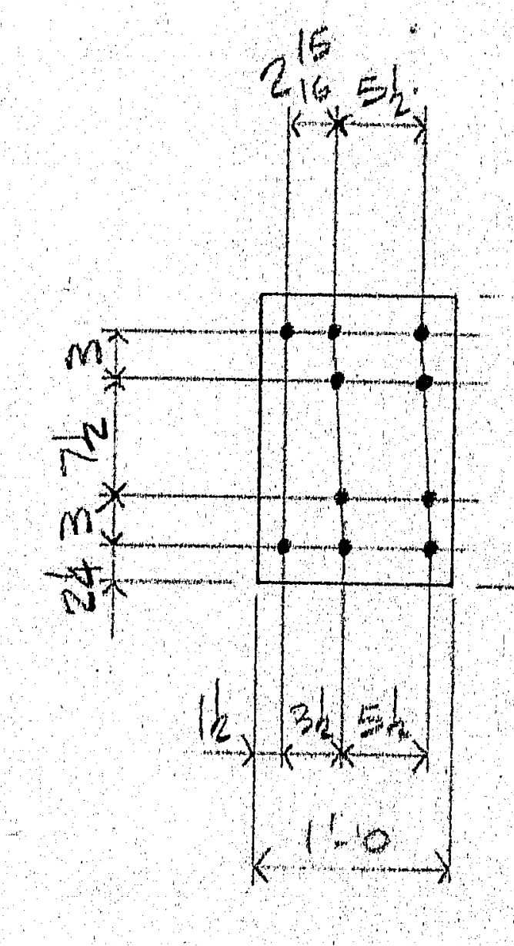
MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION SPLICE PLTS FOR PIN RETROFIT
PROJECT SANDY RIVER BRIDGE PROJ. #BH-025-4(26)
LOCATION NEW SHARON, ME
DESIGNER ME D.O.T.
CUSTOMER CALLAHAN BROS.
REV (A)
CHK'D
DRWN
JOB NO.
DWG NO. 7
REV. (A)

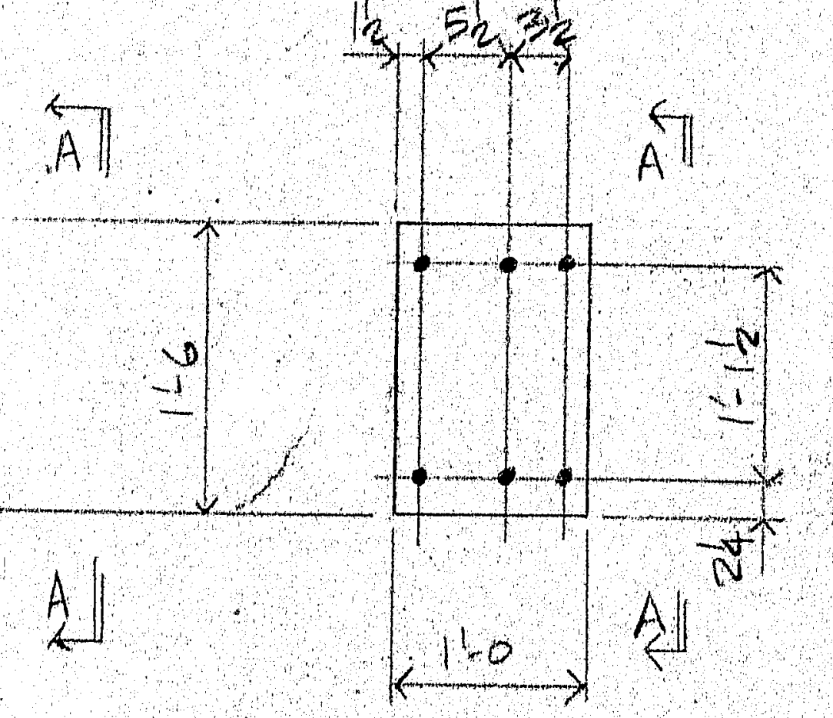
101-138



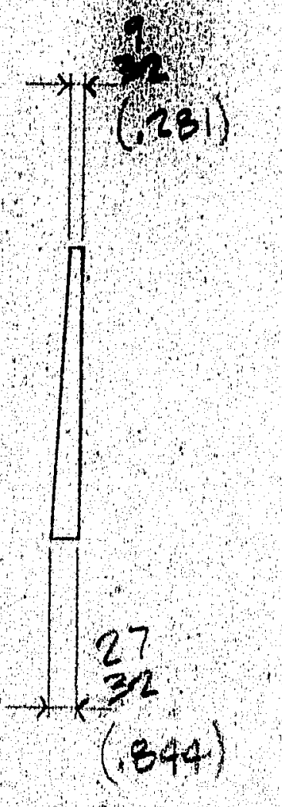
4-SPLICE PLTS-4P1
(PIN RETROFIT)
200.34



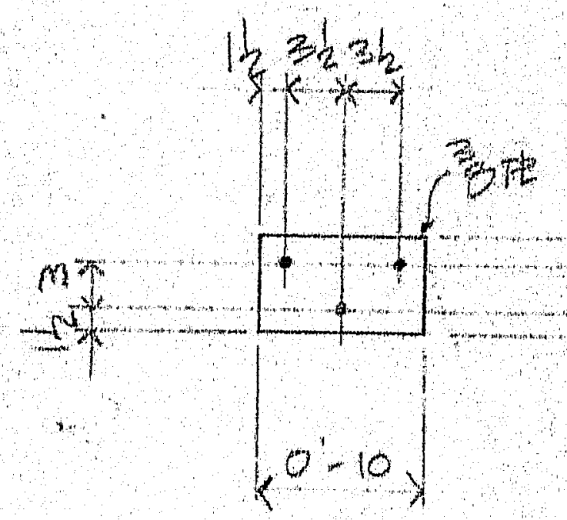
2-BEARING PLTS-4P2



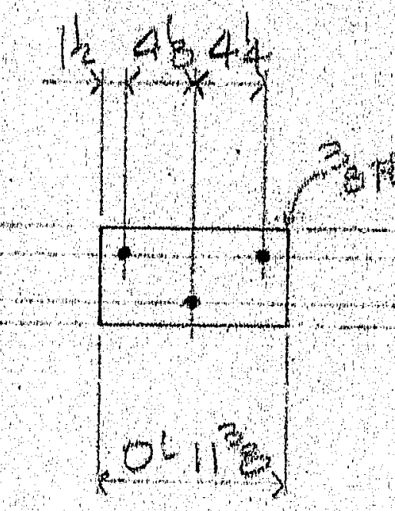
2-BEARING PLTS-4P3



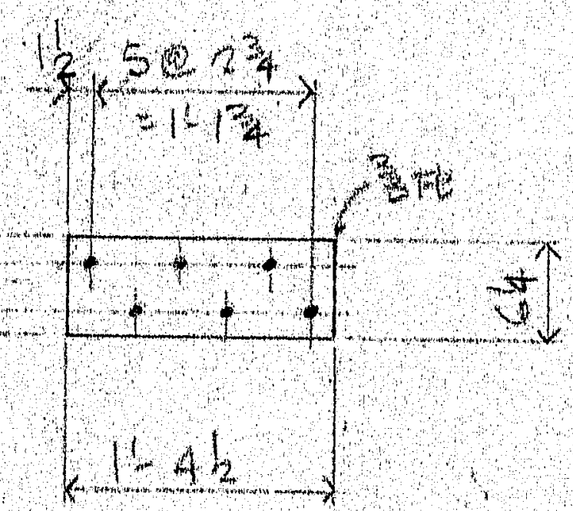
VIEW A-A



2-FILLER PLTS-4P4
(UP STREAM BOTTOM)



2-FILLER PLTS-4P5
(DOWN STREAM BOTTOM)



4-FILLER PLTS-4P6

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS		WT.
4P1	4		PL ¾ × 54	5	6	32999	cut to size			BENT (757) CVN		3029
4P2	2		PL 1 × 12	1	6					√ (61)		122
4P3	2		PL 1 × 12	1	6					√ (61)		122
4P4	2		PL ⅜ × 6¼		10	Stock	crop from 1P7			(7)		13
4P5	2		PL ⅜ × 6¼		11⅜					(8)		15
4P6	4		PL ⅜ × 6¼	1	4½					(11)		44

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
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K. Jacobs
WELDING ENGR.

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A REV'D PER APPL

BID ITEM No. 504.70

WEIGHED BY. CHK'D BY TOTAL WEIGHT 3,345#

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[illegible]	3-[illegible]

7R
7R
5R
7A
25

MATERIAL A36
BOLTS —
SURFACE PREP SP6
PRIMER
FINISH
HOLES 15/16 φ
ELECTRODE —
REF. DWG. SHT. 7 OF 20

MAINE-CASCADE IRON WORKS

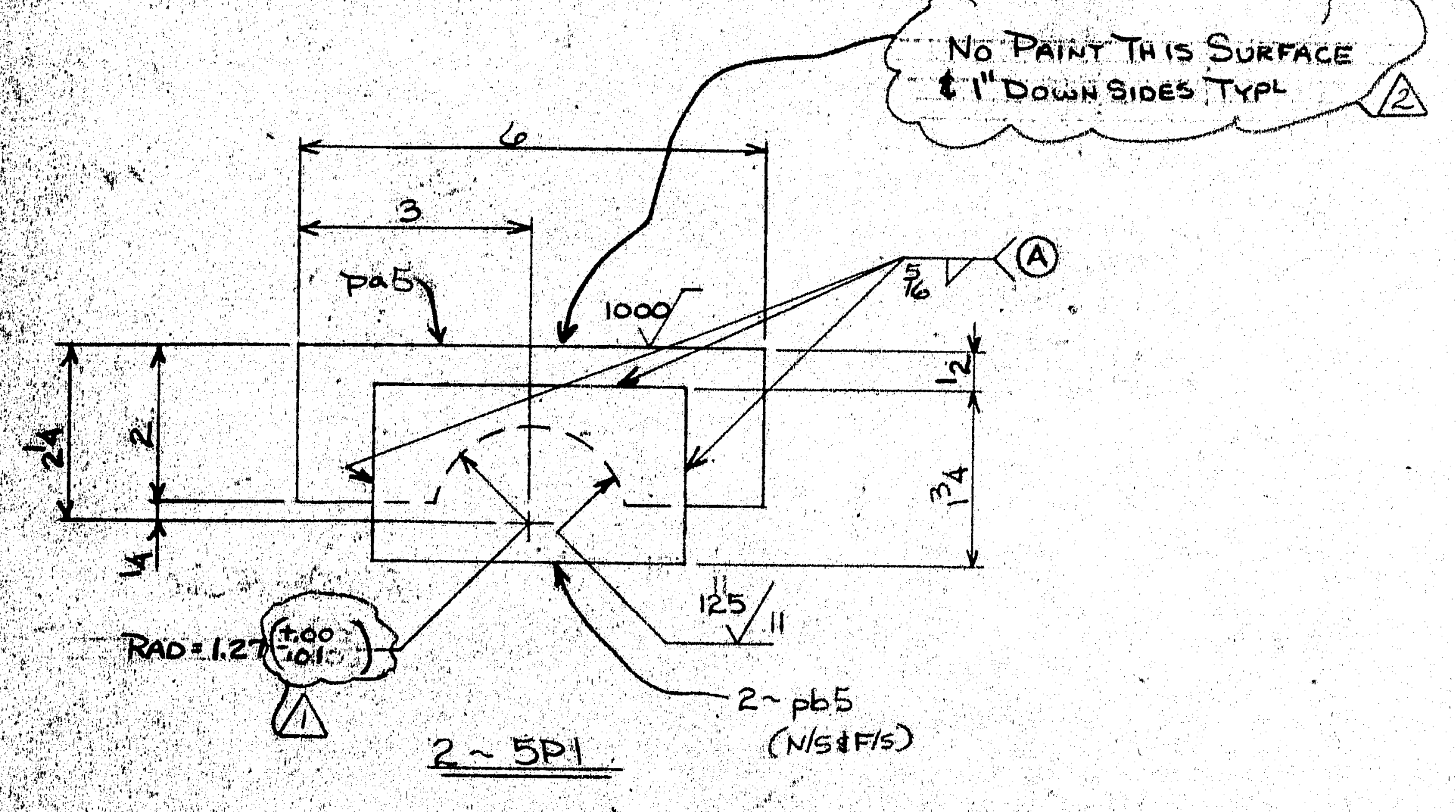
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION SPLICE PLTS FOR PIN RETROFIT
PROJECT SANDY RIVER BRIDGE PROJ. # BH-025-4(26)
LOCATION NEW SHARON, ME
DESIGNER ME DOT
CUSTOMER CALLAHAN BROS.

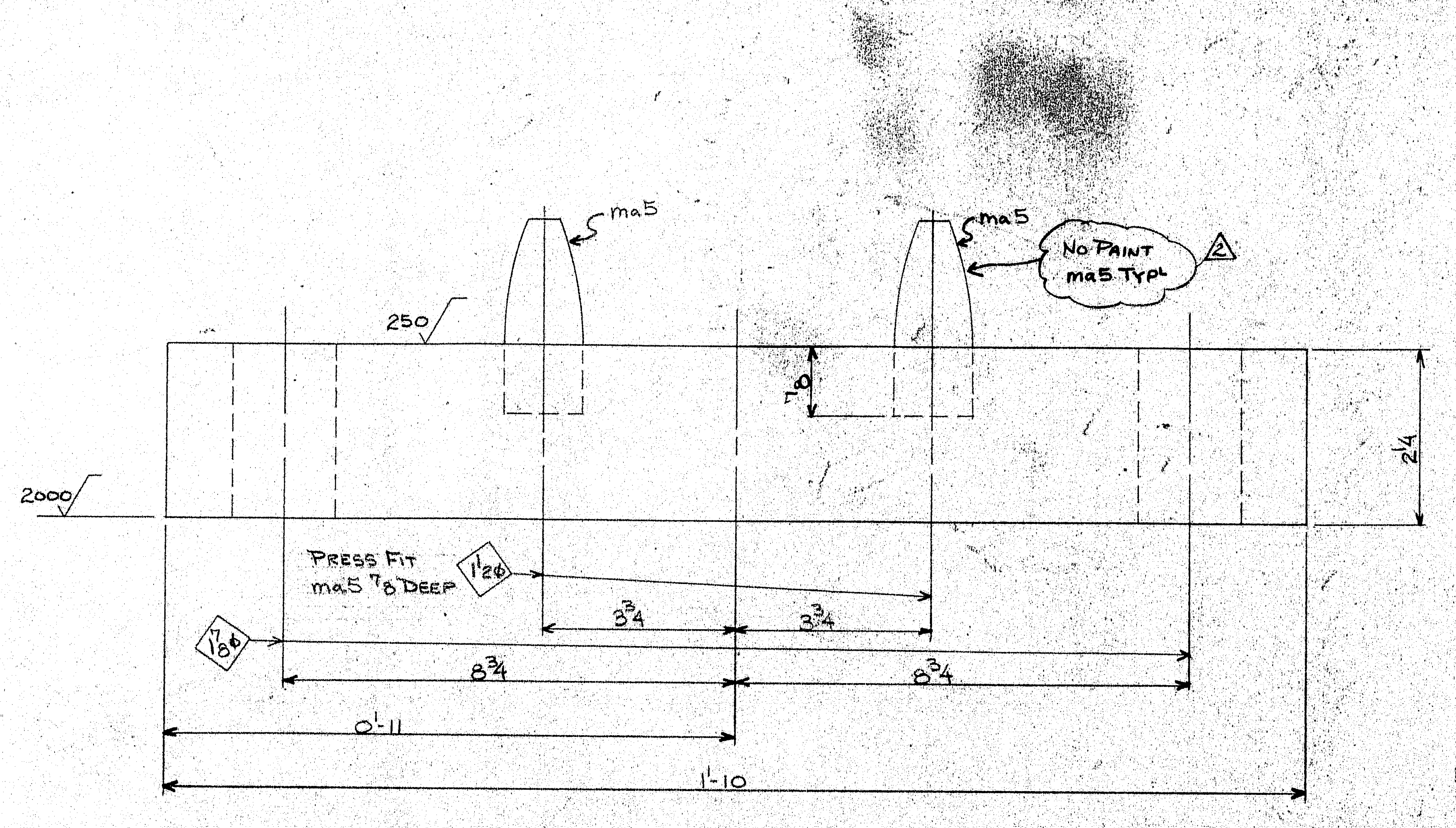
REV. A SKF 2/24/89
CHK'D SAU 1/17/89
DRWN SKF 1/17/89
JOB NO. 89-670-2
DWG. NO. 4
REV. A

FIELD:
400 ¾φ × 3¼

101-139



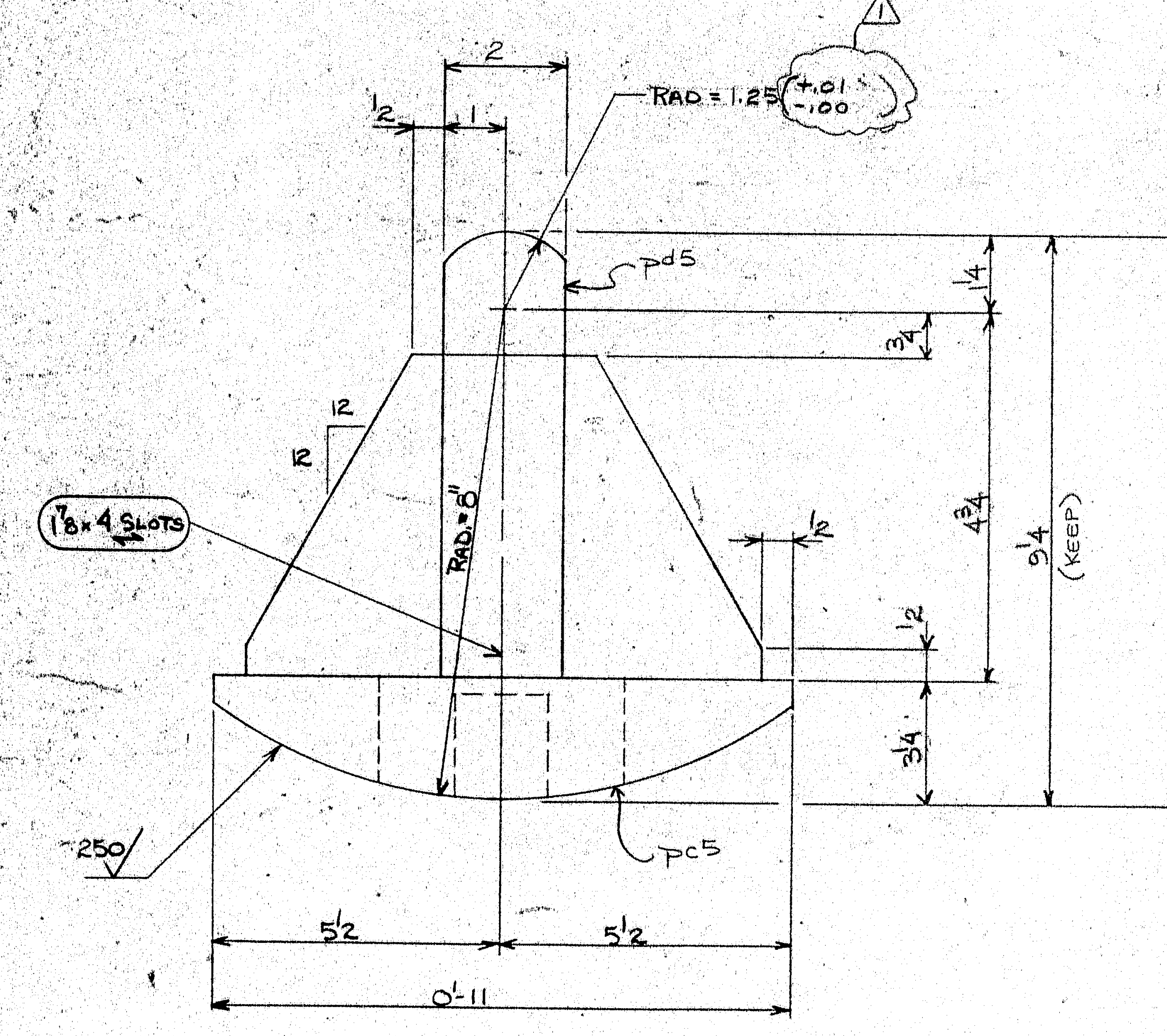
2 ~ 5P1

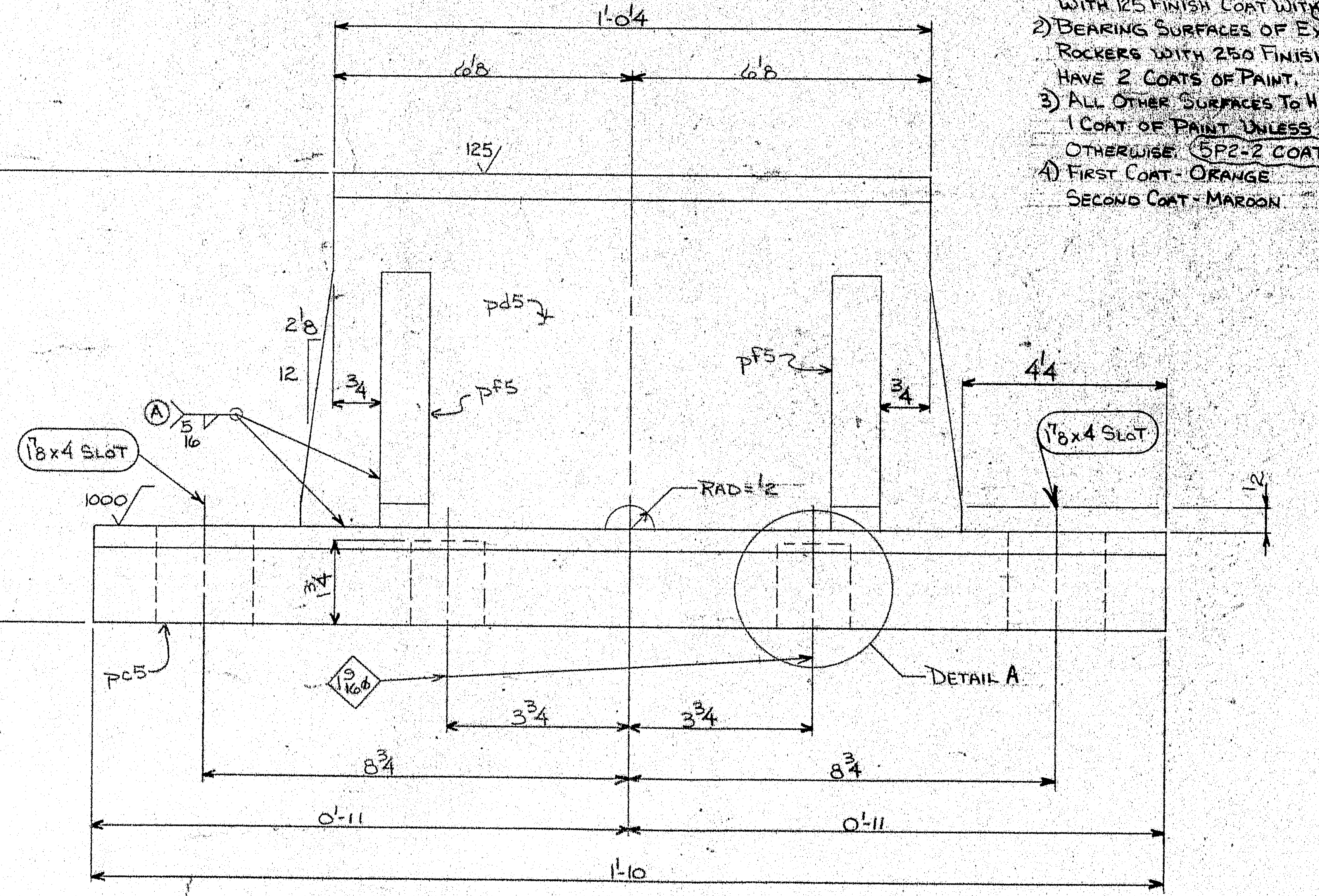


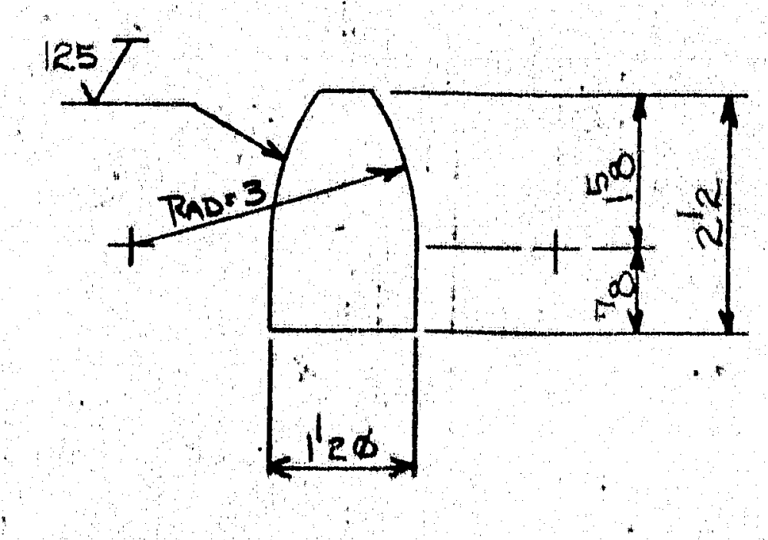
2~5P2

Paint Notes: specifications plus !!!

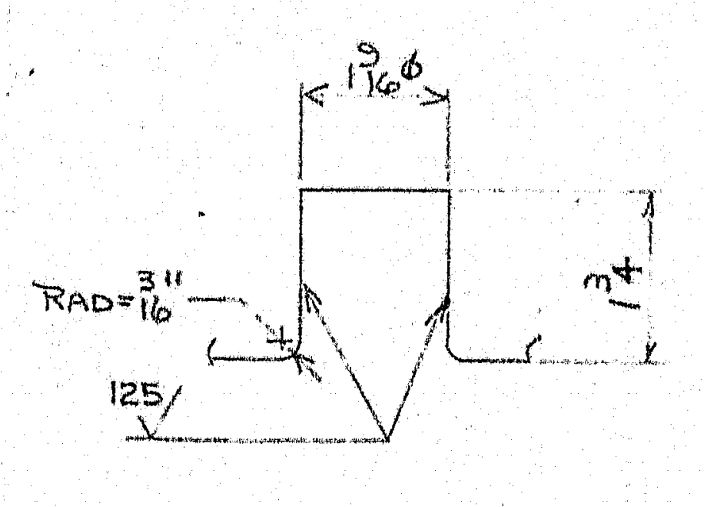
1) Do Not Paint or Blast Surfaces With 125 Finish Coat With Cosmoline
2) Bearing Surfaces of Expansion Rockers With 250 Finish To Have 2 Coats of Paint.
3) All Other Surfaces To Have 1 Coat of Paint Unless Noted Otherwise. 5P2-2 Coats
4) First Coat - Orange
Second Coat - Maroon





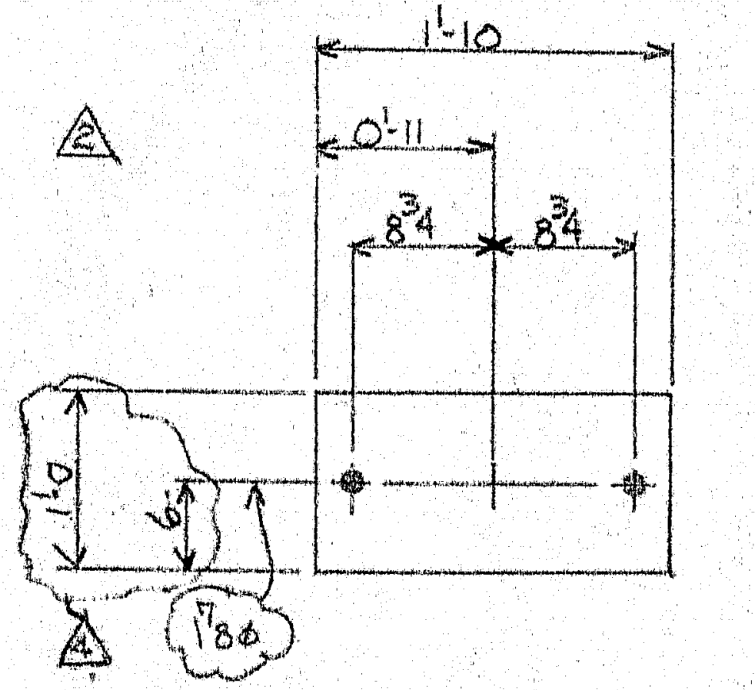


Detail of ma5



Detail A

2~5M3



2~5M4

Shop Note:
Welds To Be Magnetic Particle Tested

Bridge Pedestal
Similar To EPC

101-140

MATERIAL SCHEDULE

SHIPPING MARK	NO PCS	SUB ASSEM	[illegible]	LENGTH FT	LENGTH IN	D OR S	CUT FROM NO	CUT FROM FT	CUT FROM IN	REMARKS	
5P1	2		Sole Plate	1	1¼	—				(141)	
	2	pa5	PL 12 x 6	1	0½	33221	CTS			✓	85
	4	pb5	PL ⅜ x 1¾	0	4						3
5P2	2		PL 2¼ x 12	1'	10					✓ (112)	337
	4	ma5	1⅝⌀ Rod	0	2½	33221	1@20'1¾⌀			See Detail Added Extra For Machining	6
5M3	2		Bearing Pedestal	1	10		Typ			(372)	
	2	pc5	PL 3¼ x 11	1	10					✓ Added Extra For Machining	446
	2	pd5	PL 2 x 6¼	1	1½					✓ ⊥	96
	4	pf5	PL 1 x 3½	0	3½					Shape	14
5M4	2		⅛" Preformed Pads x 12	1	10	33227	MTS			85 To 95 Durometer Me.D.OT. 713.03	—

4

Machine Work 33230 Clark's Machine

Weld Procedures:
A Fc-2F-03P
SM-2F-01P
2

A588 MATC

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K. Jacobs
WELDING ENGR.

Pay Item # 504.70

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4 Rev^D Per Appv^L
3 ⊥
2 Revised Per Approval Print
1 Revised Machining Tolerances To Match Standard Drawing

WEIGHED BY DW CHK'D BY TOTAL WEIGHT 987#

WARNING
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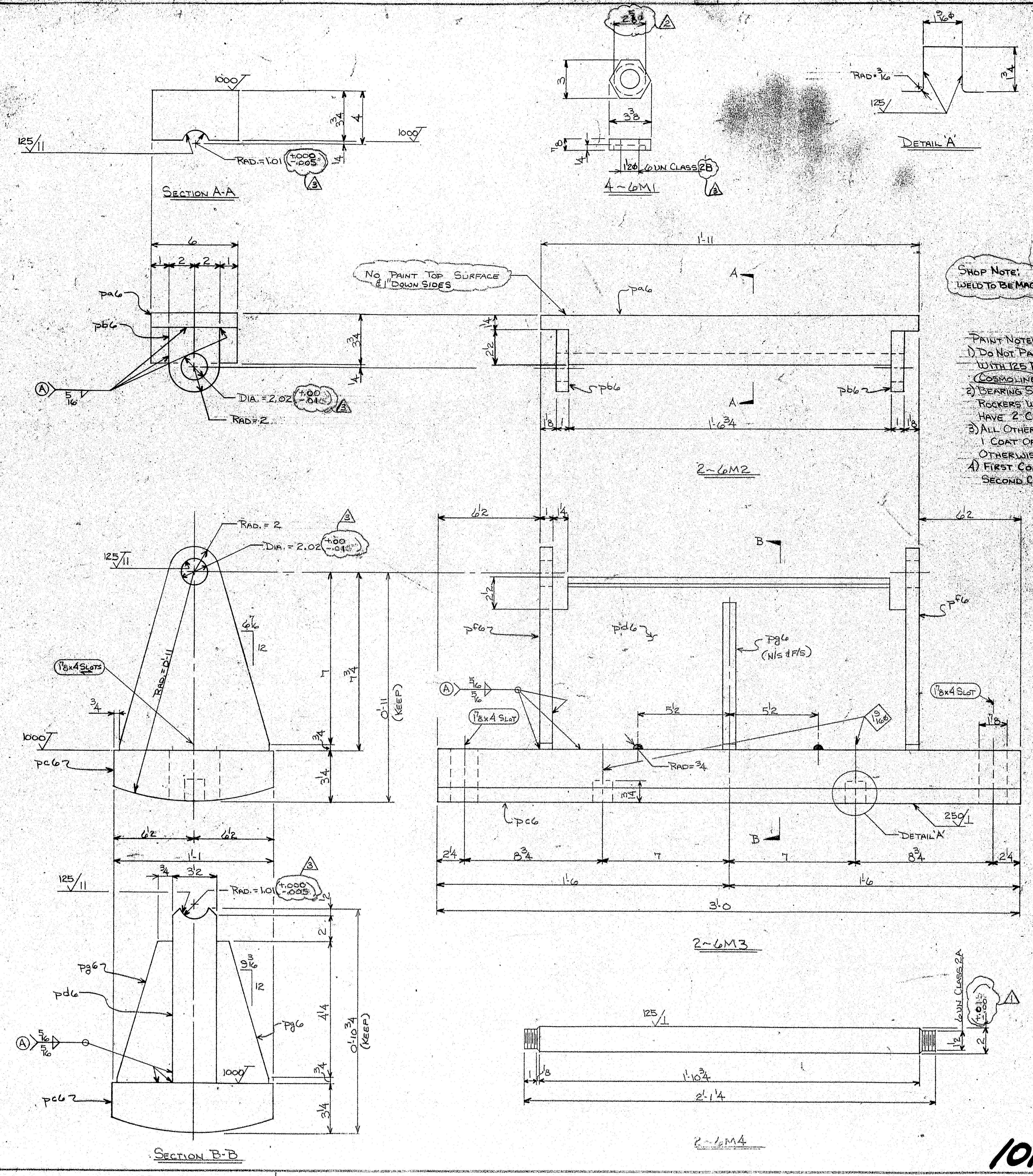
TR Field	3-2-89
89 Inspection	3-20-89
REV 4	DLS 3-2-89
REV 3	DLS 2-23-89
REV 2	DLS 2-21-89
REV 1	DLS 2-9-89
CHK'D	2-25-89
DRWN	DLS 1-19-89

MATERIAL A588
BOLTS —
SURFACE PREP SSPC-SP6
PRIMER Basic Lead Silico Chromate To Conform To
FINISH Me.D.O.T. 708.02 Standard Spec. See Paint Note
4 Mils Wet Film Thickness Each Coat
HOLES As Noted
ELECTRODE See Weld Procedure
REF. DWG. 5 of 20

MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2871

DESCRIPTION Expansion Pedestal @ Pier #4
PROJECT Sandy River Bridge BH-025-2 (46)
LOCATION New Sharon, Me.
DESIGNER Me. D.O.T
CUSTOMER Callahan Bros., Inc
JOB NO 89-670-1
DWG. NO 5
REV. 4



BRIDGE PEDESTAL
SIMILAR TO EPE & EPD

SHOP NOTE:
WELD TO BE MAGNETIC PARTICLE TESTED

PAINT NOTES:
1) DO NOT PAINT OR BLAST SURFACES WITH 125 FINISH COAT WITH COSMOLINE. specification please !!!
2) BEARING SURFACES OF EXPANSION ROCKERS WITH 250 FINISH TO HAVE 2 COATS OF PAINT.
3) ALL OTHER SURFACES TO HAVE 1 COAT OF PAINT UNLESS NOTED OTHERWISE.
4) FIRST COAT - ORANGE
SECOND COAT - MAROON

MATERIAL SCHEDULE

SHIPPING MARK	NO PCS	SUB-ASSEM	SHAPE	LENGTH FT	LENGTH IN	O OR S	CUT FROM NO.	CUT FROM FT	CUT FROM IN	REMARKS		WT
6M1	4		1½ϕ RECESSED PIN NUT			33232	Bought Out					—
6M2	2		SOLE PLATE	1	11					(160)		
	2	pa6	℞ 3¾x6	1	11	33221	CTS			√		293
	4	pb6	℞ 1x4	0	6					SHAPE		27
6M3	2		BEARING PEDESTAL	3	0		TYP			(678)		
	2	pc6	℞ 3¼x13	3	0					√ ADDED EXTRA FOR MACHINING		868
	2	pd6	℞ 3½x8¼	1	9					√ ⊥		344
	4	pf6	℞ 1x9¾	0	11½					SHAPE		127
	4	pg6	℞ 1x4	0	5					⊥		23
6M4	2		2ϕ PIN	2	1¼	33232	Bought Out			√ (23)		45

* Machine Work * 33230 Clark's Machine

WELD PROCEDURES:
Ⓐ FC-2F-03P
SM-2F-01P

A588 MAT'L

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WELDING ENGR.

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3 REV'D PER APPV'L
2 REVISED PER APPROVAL PRINT
1 REVISED MACHINING TOLERANCES TO MATCH STANDARD DRAWING

WEIGHED BY: DW
CHK'D BY
TOTAL WEIGHT 1721#

WARNING
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Field 3-2-89
Record 3-2-89

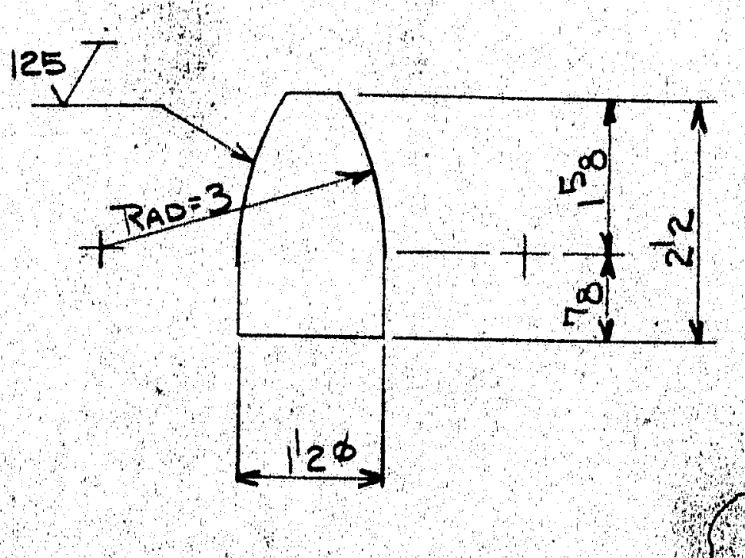
MATERIAL A588
BOLTS —
SURFACE PREP SSPC-SP6
HOLES AS NOTED
ELECTRODE SEE WELD PROCEDURE
REF. DWG. 5 OF 12
PRIMER BASIC LEAD SILICO CHROMATE TO CONFORM TO ME. D.O.T.
FINISH 708.02 STANDARD SPEC. SEE PAINT NOTE
4 MILS WET FILM THICKNESS EACH COAT

MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

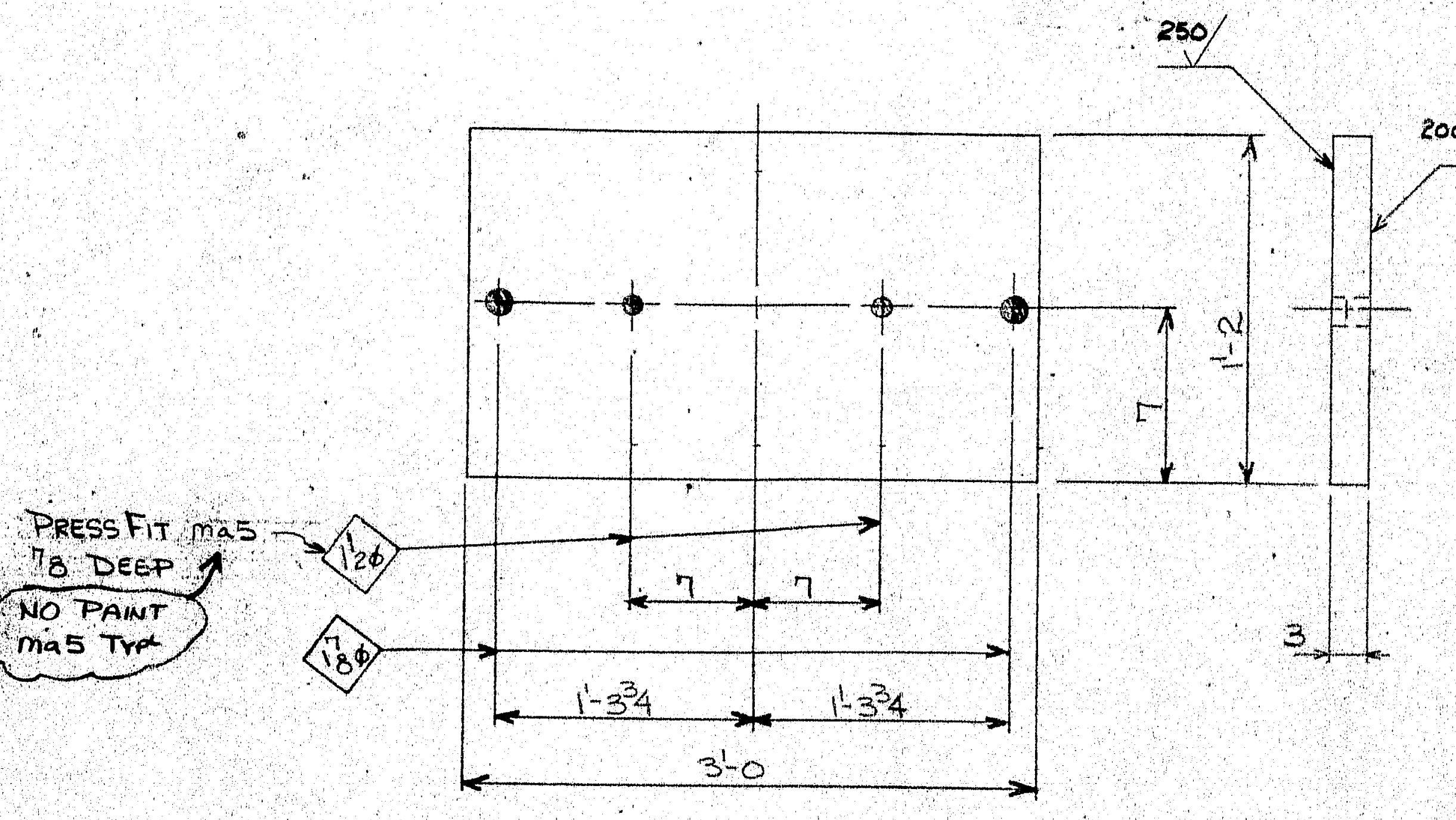
DESCRIPTION EXPANSION PEDESTALS @ PIER #3
PROJECT SANDY RIVER BRIDGE BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.

REV 3 DLS 3-2-89
REV 2 DLS 2-21-89
REV 1 DLS 2-9-89
CHK'D 1-26-89
DRN DLS 1-26-89
JOB NO. 89-670-1
DWG NO. 6
REV 3

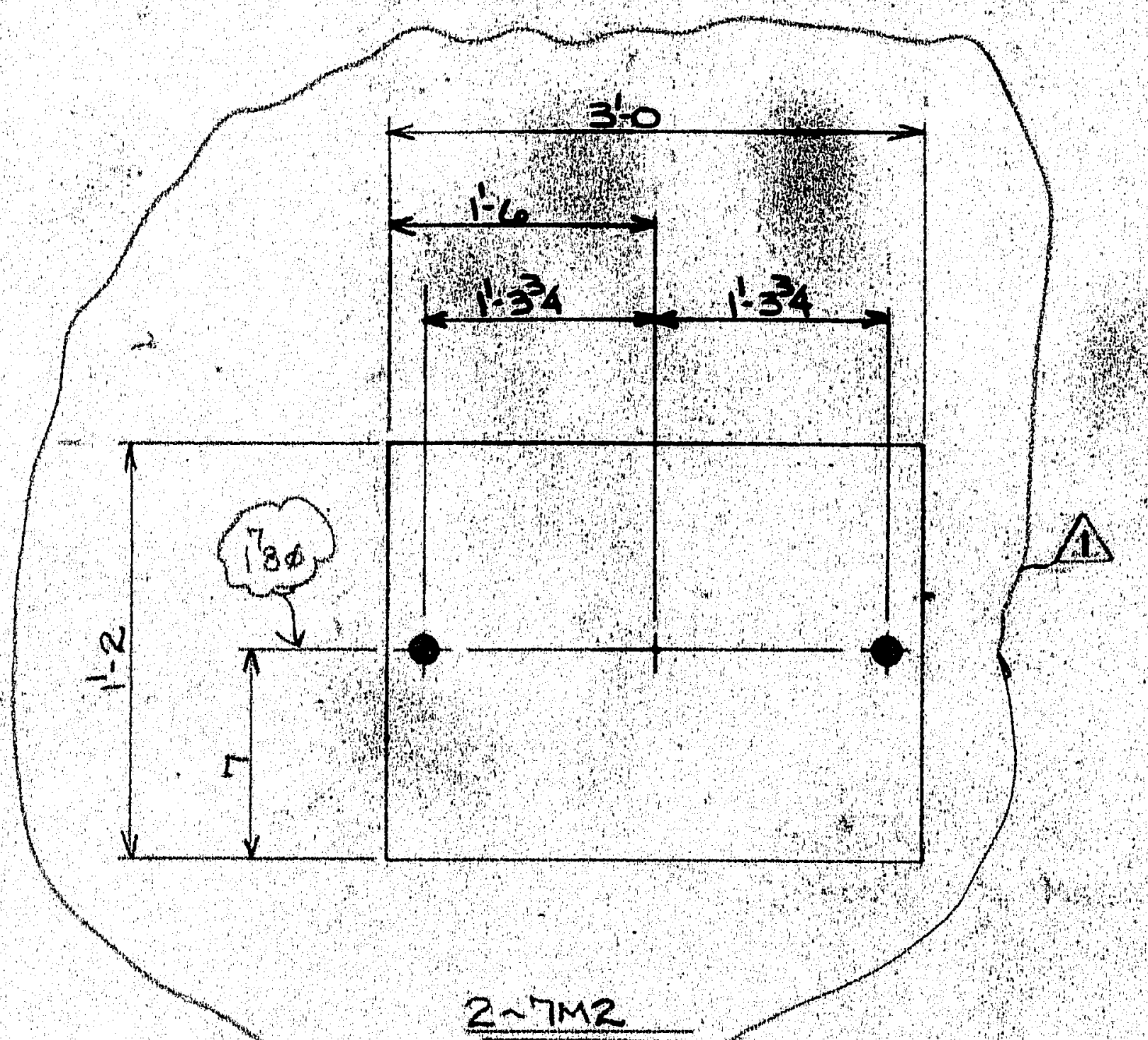
101-141



DETAIL OF ma5



2~7P1



2~7M2

PAINT NOTE: Specification please!!!

1) DO NOT PAINT OR BLAST SURFACES WITH 125 FINISH COAT WITH COSMOLINE
2) BEARING SURFACES OF EXPANSION ROCKERS WITH 250 FINISH TO HAVE 2 COATS OF PAINT
3) ALL OTHER SURFACES TO HAVE 1 COAT OF PAINT UNLESS NOTED OTHERWISE. 7P1 2 COATS
4) FIRST COAT - ORANGE
SECOND COAT - MAROON

MATERIAL SCHEDULE

SHIPPING MARK	NO PCS	SUB-ASSEM	SHAPE	LENGTH FT	LENGTH IN	O OR S	CUT FROM NO	CUT FROM FT	CUT FROM IN	REMARKS		WT
7P1	2		MASONRY PLATE	3	0	—				(432)		
	2	pa7	PL. 3x14	3	0	33221	CTS			✓		857
	4	ma5	1 5/8ϕ ROD	0	2 1/2	33221	1@20 1 3/4ϕ			✓ ADDED EXTRA FOR MACHINING		6
7M2	2		1/8" PREFORMED PAD x14	3	0	33227	MTS			85 TO 95 DUROMETER PER ME.DOT SPEC 713.03		—
		2										
			Machine Work			33280	Clark's Machine			✓		

A588 mat'l

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DEPARTMENT OF TRANSPORTATION
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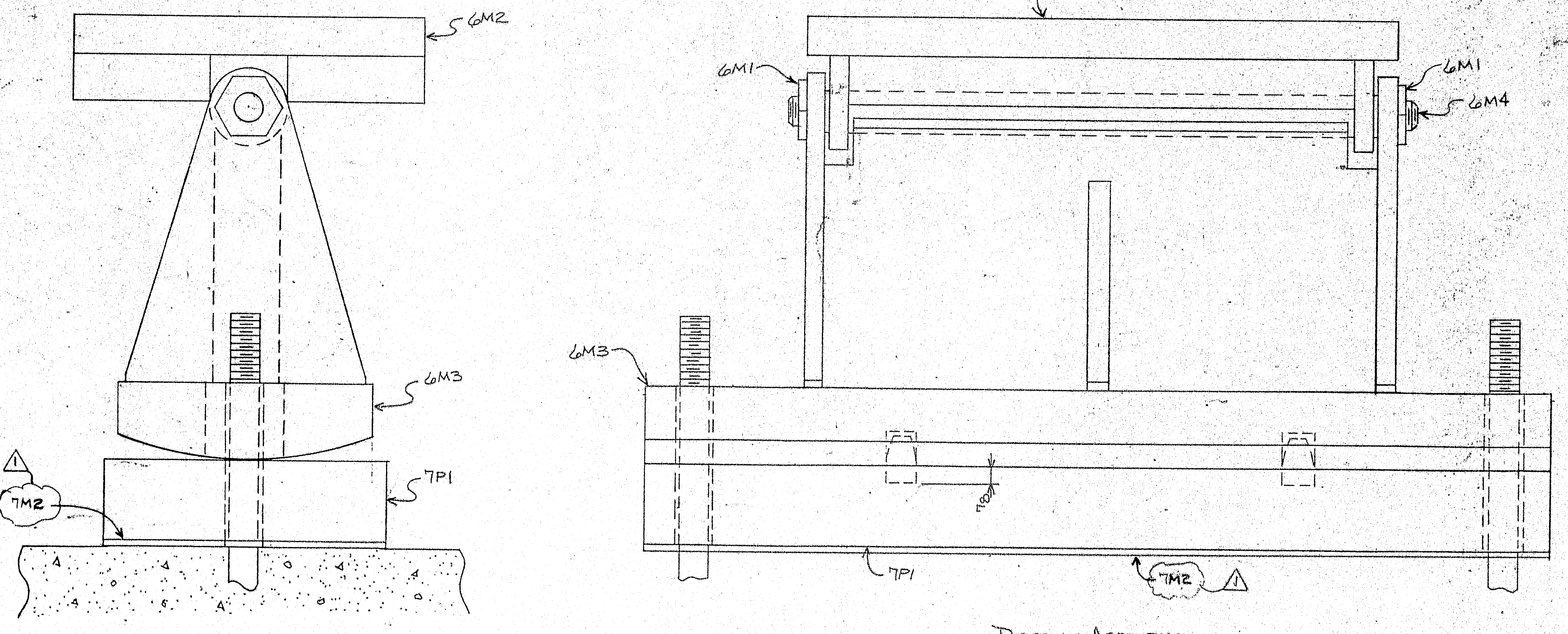

PEDESTALL ASSEMBLY

SHOP NOTE:
MATCHMARK BEARING PARTS AFTER SHOP ASSEMBLY OR SHIP AS ASSEMBLED UNITS

2 CHANGED DUROMETER & FROM NEOPRENE TO PREFORMED PADS
1 REVISED PER APPROVAL PRINT

WEIGHED BY: RW
CHK'D BY
TOTAL WEIGHT 863#

WARNING
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MATERIAL A588
BOLTS
SURFACE PREP SSPC-SP6
PRIMER BASIC LEAD SILICO CHROMATE TO CONFORM TO ME.D.O.T.
FINISH 708.02 STANDARD SPEC. SEE PAINT NOTE
4 MILS WET FILM THICKNESS EACH COAT
HOLES AS NOTED
ELECTRODE SEE WELD PROCEDURE
REF DWG 5 OF 12

MAINE-CASCADE IRON WORKS

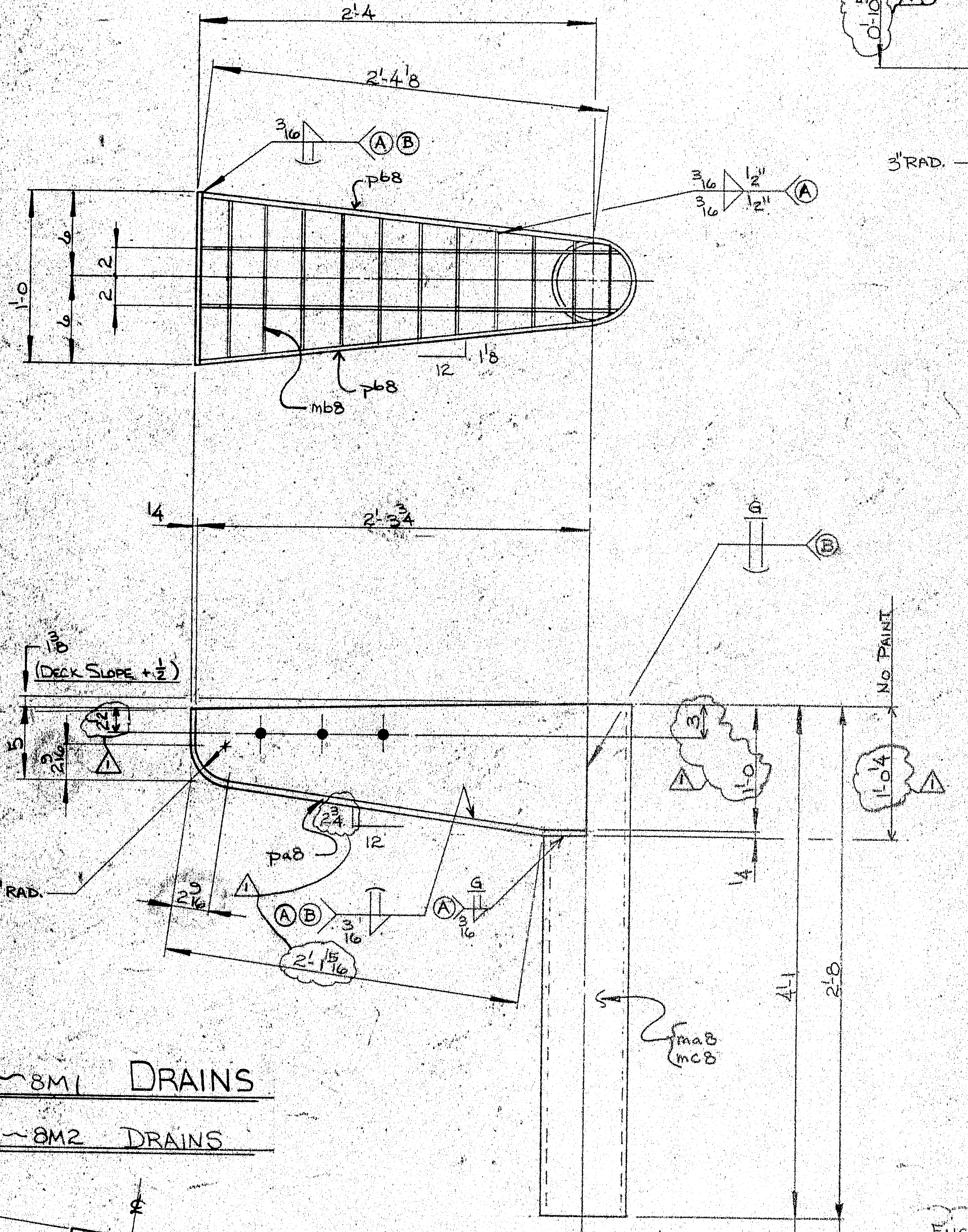
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2871

DESCRIPTION EXPANSION PEDESTALS @ PIER # 3
PROJECT SANDY RIVER BRIDGE BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.

REV 2 DLS 2-23-89
REV 1 DLS 2-21-89
CHK'D GAW 1-25-89
DRWN DLS 1-23-89
JOB NO 89-670-1
DWG. NO 7
REV 2

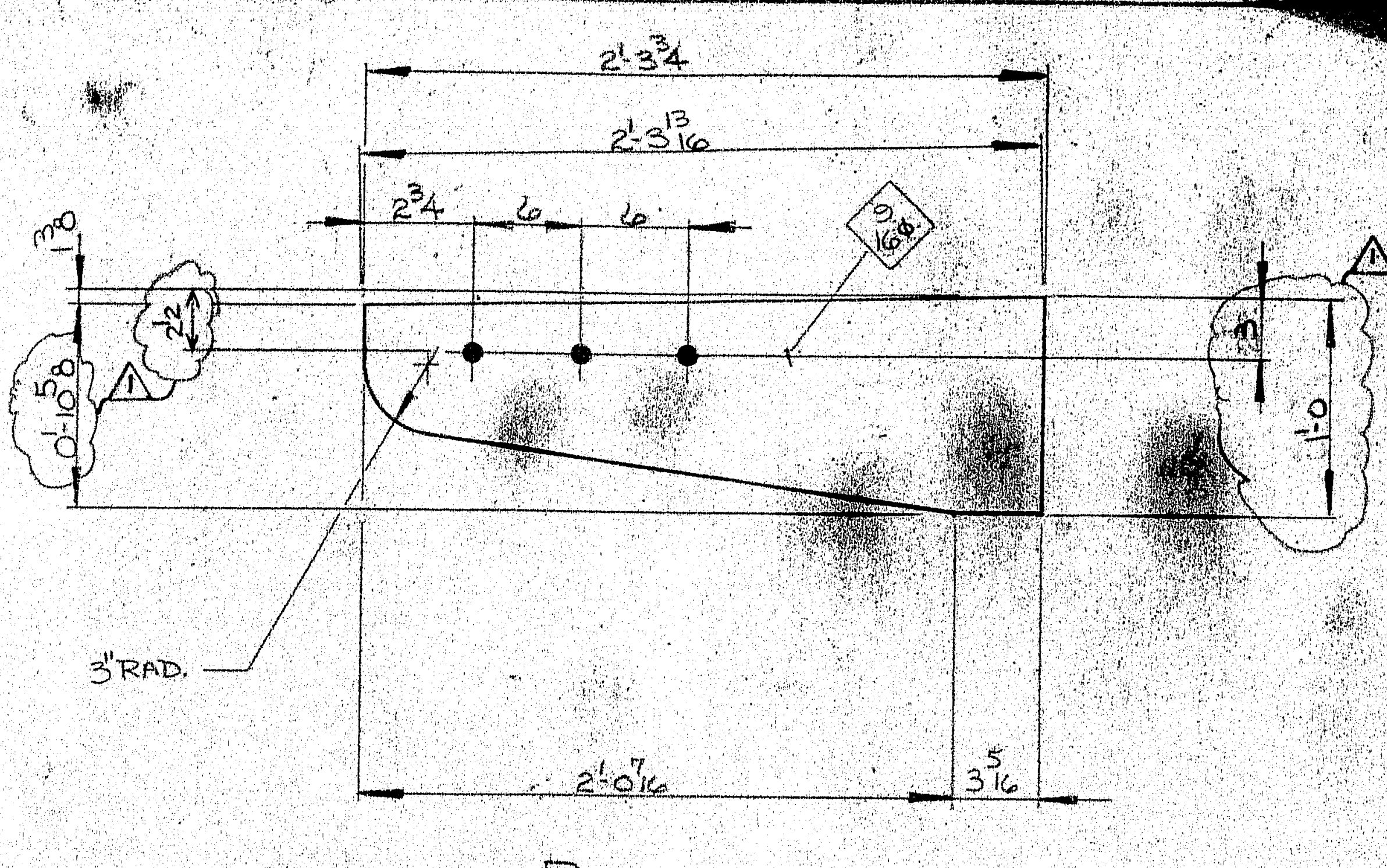
BRIDGE PEDESTAL
SIMILAR TO EPE & EPD

101-142

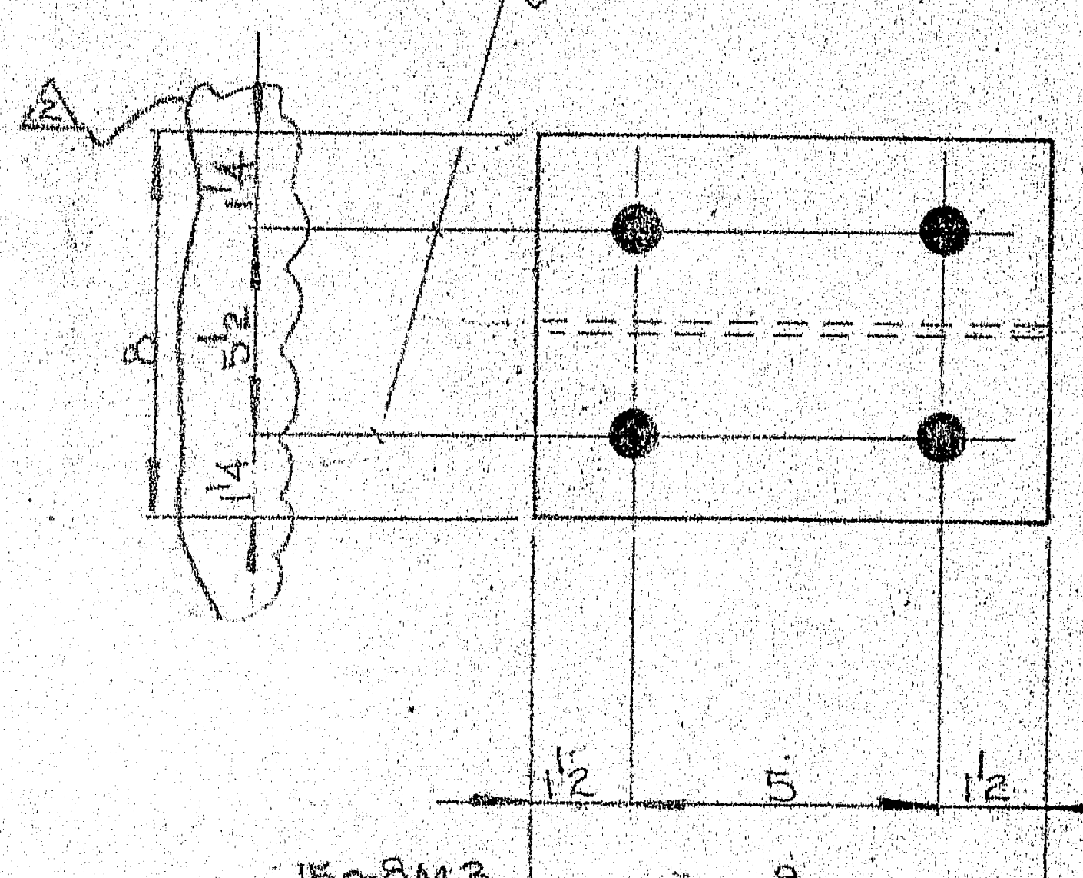


(4) ~8M1 DRAINS

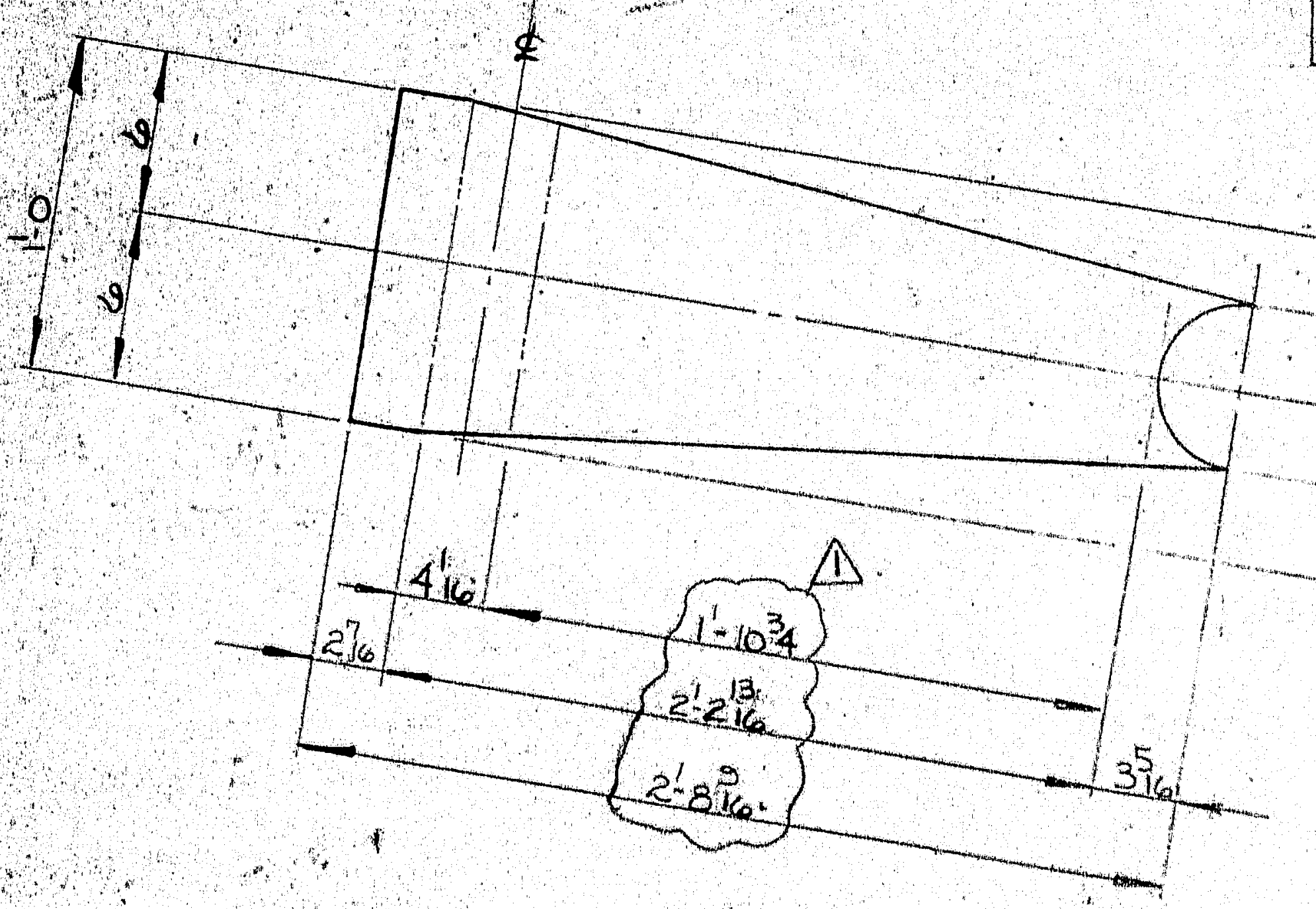
(11) ~8M2 DRAINS



pb8 ~DETAIL

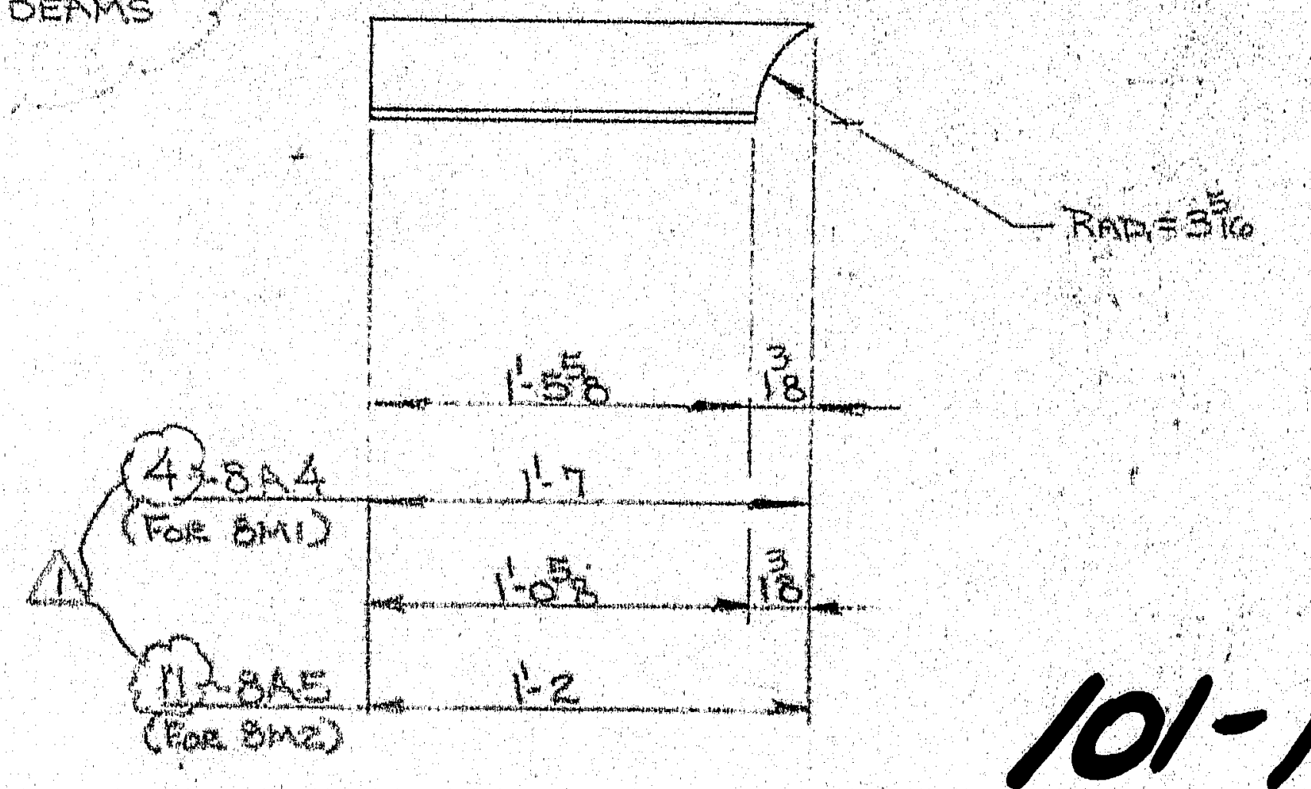


15~8M3



pa8 ~DEVELOPMENT VIEW

ENGINEER/CONTRACTOR NOTE:
1) DRAINS 8M1 CONNECT TO EXISTING ROLLED BEAMS (SPAN 1&5)
2) DRAINS 8M2 CONNECT TO EXISTING FLOOR BEAMS. M-CIW HAS ASSUMED THAT DRAINS, 8M2, ARE 1'-6 OFF THE CENTERLINE OF THE FLOOR BEAMS TYPICAL.



4~8A4 (FOR 8M1)

11~8A5 (FOR 8M2)

101-143

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM	SHAPE	LENGTH FT.	LENGTH IN	D OR S	CUT FROM NO.	CUT FROM FT	CUT FROM IN	REMARKS	WT
8M1	4		DRAINS	4	1					(183)	
	4	ma8	6φ PIPE	4	1	33220	3@21'-0			SCH 40 SEE DETAIL	310
	4	pa8	PL 1/4 x 12	2	8 9/16	33221	1@96x240			SHAPE	111
	8	pb8	PL 1/4 x 12	2	3 3/4	⊥	⊥				189
	4	mb8	GRTG 1 1/2 x 5/16 x 11 1/2	2	6 3/4	33231	4	11 1/2 x 2'-6 3/4		B.B @ 2 3/8 c/c	120
										C.B 3/8φ @ 4" c/c	
	1							TYP			
8M2	11		DRAINS	2	8					(185)	
	11	mc8	6φ PIPE	2	8					SCH.40 SEE DETAIL	556
	11	pa8	PL.								304
	22	pb8	PL.								519
	11	mb8	GRTG.			33231	11	11 1/2 x 2'-6 3/4			330
8M3	15		WT6x20	0	8	Dom 57'6	1	11'-8 (4Y)		(13)	200
8A4	4		∠3x3x5/16	1	7	33221	1@20'-0			SEE DETAIL (10)	39
8A5	11		∠3x3x5/16	1	2	⊥	⊥			⊥ (7)	78
8FB6	66		5/8φ BOLT	0	1 3/4	33254				W/N&W	27

Machine Work 33230 Clark's Machine

WELDING PROCEDURE

(A) FC-12F-03P
SM-2F-01P

(B) FC-1G-08

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
MAR 23 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

OFFICE COPY (1)
RECEIVED MAR 22 1989
CHECKED BY
REVIEWED BY 3/23/89

PAY ITEM # 502.26

2 REVISED PER APPV'L
1 REVISED PER APPROVAL PRINT

PRINT DISTRIBUTION	
FA	1-25-89
FA 1	2-22-89
[illegible]	3-2-89
APVD	3-2-89
SHOP 2	3-2-89
FIELD	3-2-89
[illegible]	3-23-89

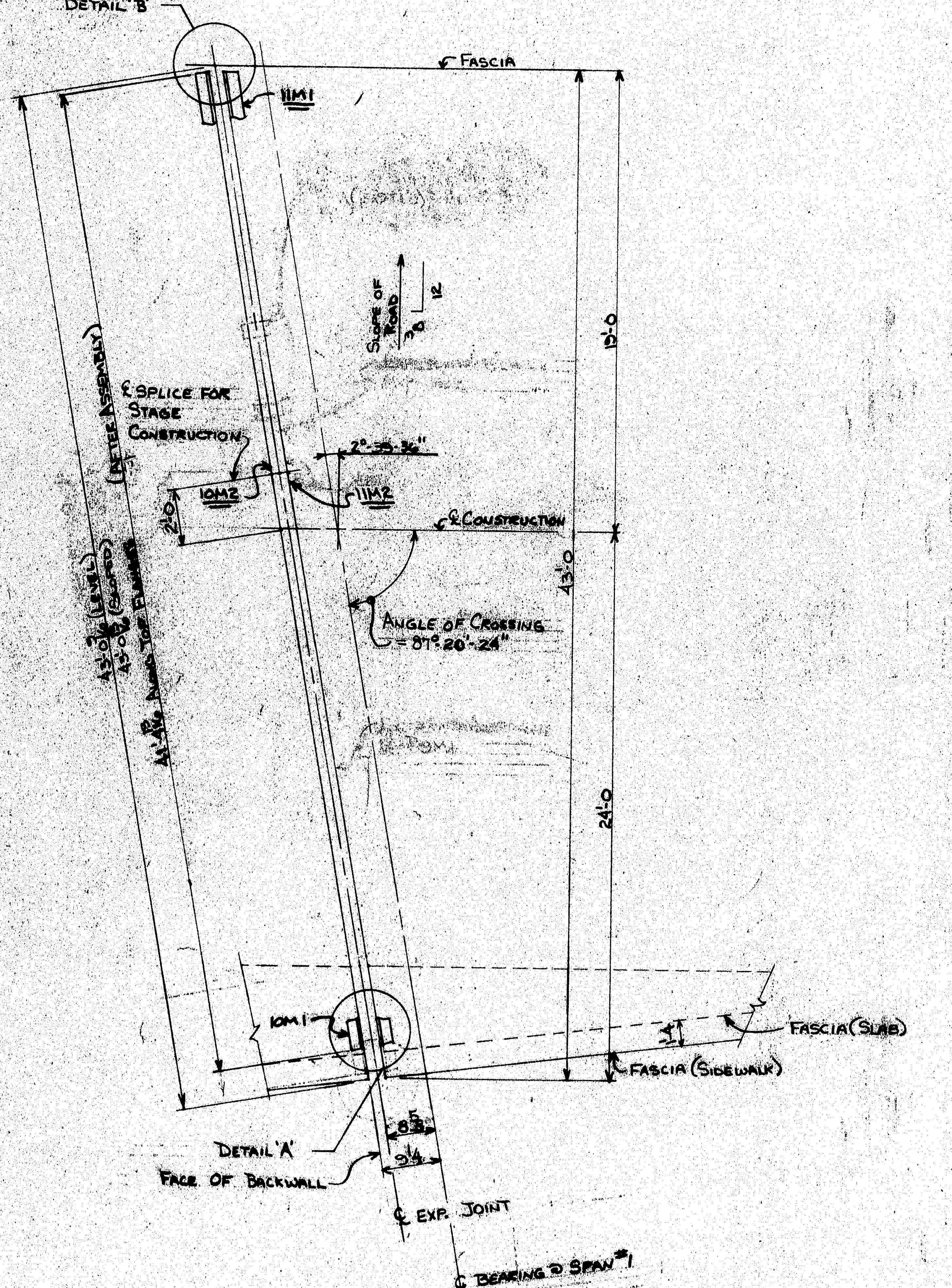
TOTAL WEIGHT	2,783#
MATERIAL A36, A53 GR.B TYPE E or S PIPE	HOLES AS NOTED
BOLTS A325	ELECTRODE PER WELDING PROCEDURE
SURFACE PREP SSPC-SP6	REF DWG 8 OF 20 & BD 126-81

PRIMER BASIC LEAD SILICO CHROMATE TO CONFORM TO
FINISH ME.D.O.T. 708.02 STANDARD SPEC. ONE COAT ORANGE
4 MILS WET FILM THICKNESS

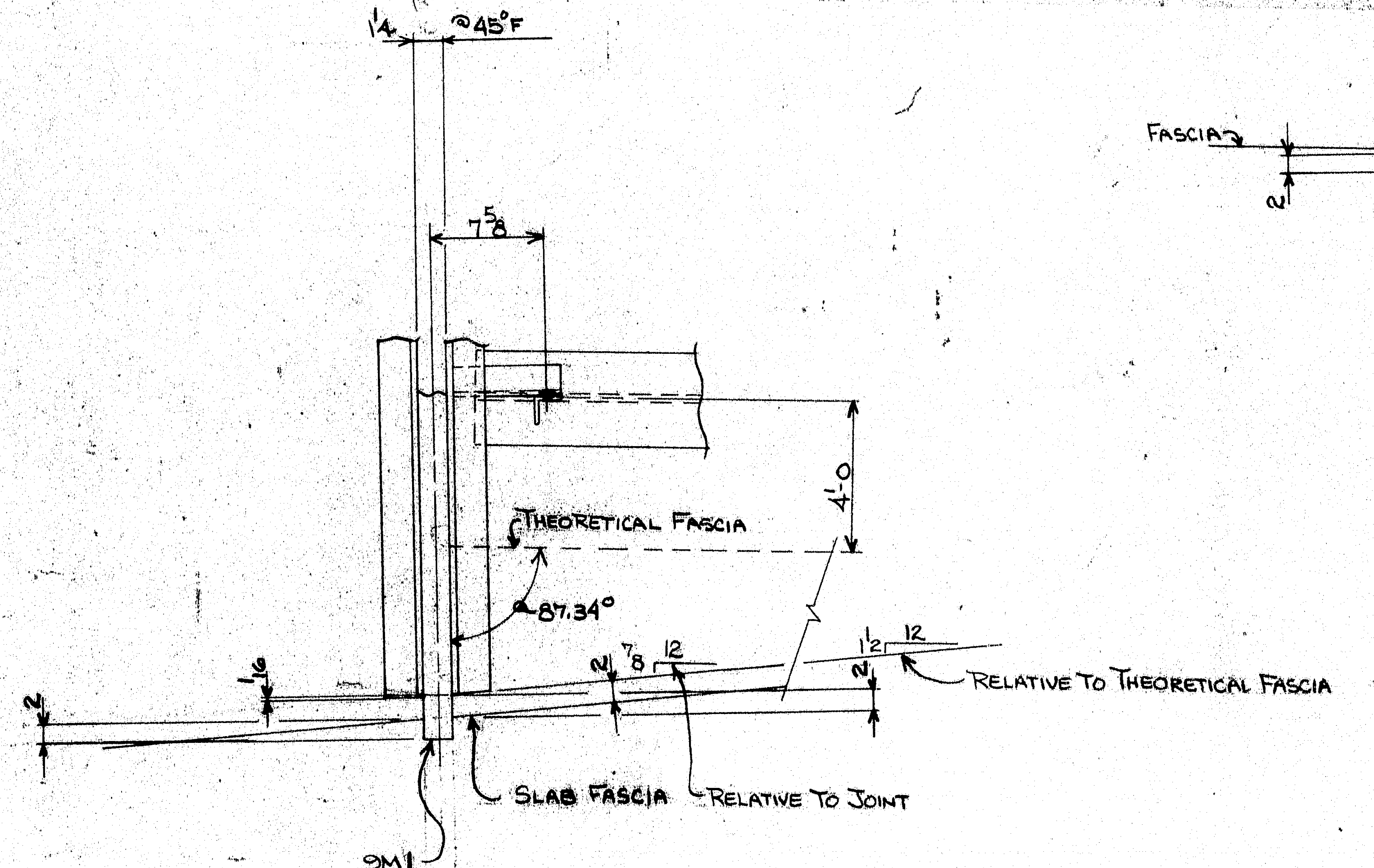
MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-8671

DESCRIPTION BRIDGE DRAINS
PROJECT SANDY RIVER BRIDGE BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.
JOB NO. 89-670-3
DWG NO. 8

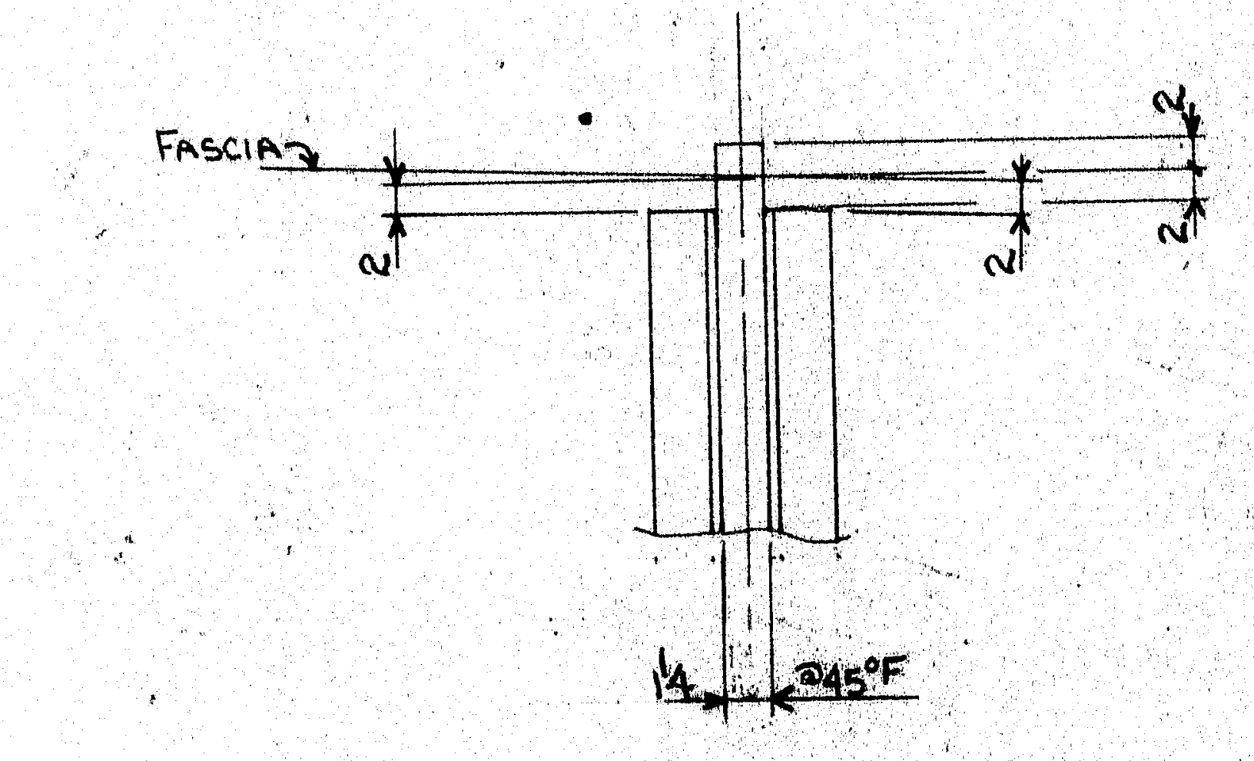
REV 2 DLS 3-2-89
REV 1 DLS 2-22-89
CHK'D GAW 1-25-89
DRAWN DLS 1-23-89



PLAN @ ABUTMENT #1



DETAIL 'A'



DETAIL 'B'

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH		O OR S	CUT FROM			REMARKS	DASH	WT.
				FT.	IN.		NO.	FT.	IN.			
9M1	1		Compression Seal	42	6	33691 Shipped direct				Type WA-175 w/adhesive		

USE CUT LIST

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
JUL 26 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

WARNING
WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PAY ITEM # 530.2201

PRINT DISTRIBUTION	
7P FA	3-23-89
25P FA	5-2-89
7R FA	5-10-89
7R FA	6-7-89
APVD	6-20-89
2R SHOP	6/27/89
7R25 FIELD	6-28-89
REV B	DLS 6-5-89
REV A	DLS 4-26-89
CHK'D	GMV 2-16-89
DRWN	DLS 1-30-89

MATERIAL A36
HOLES —
BOLTS —
ELECTRODE See Weld Procedures
SURFACE PREP See assembly dwgs.
REF. DWG. 4,5,9 of 20 & M-Ch 10 & 11
PRIMER
FINISH

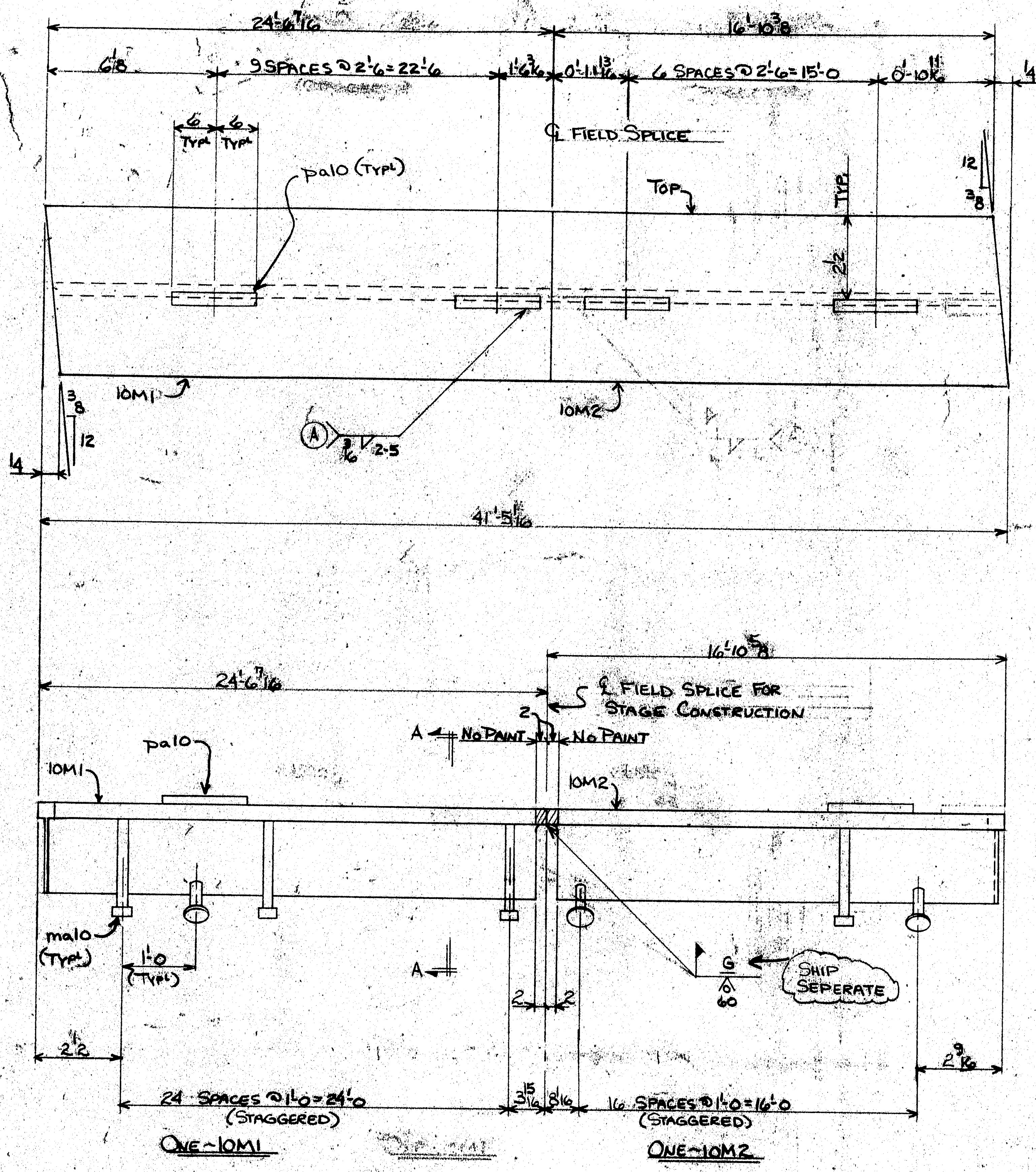
MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION Expansion Joint @ Abutment #1
PROJECT Sandy River Bridge BH-025-2(46)
LOCATION New Sharon, Me.
DESIGNER Me. D.O.T
CUSTOMER Callahan Bros., Inc
JOB NO. 89-670-5
DWG. NO. 9
REV. B

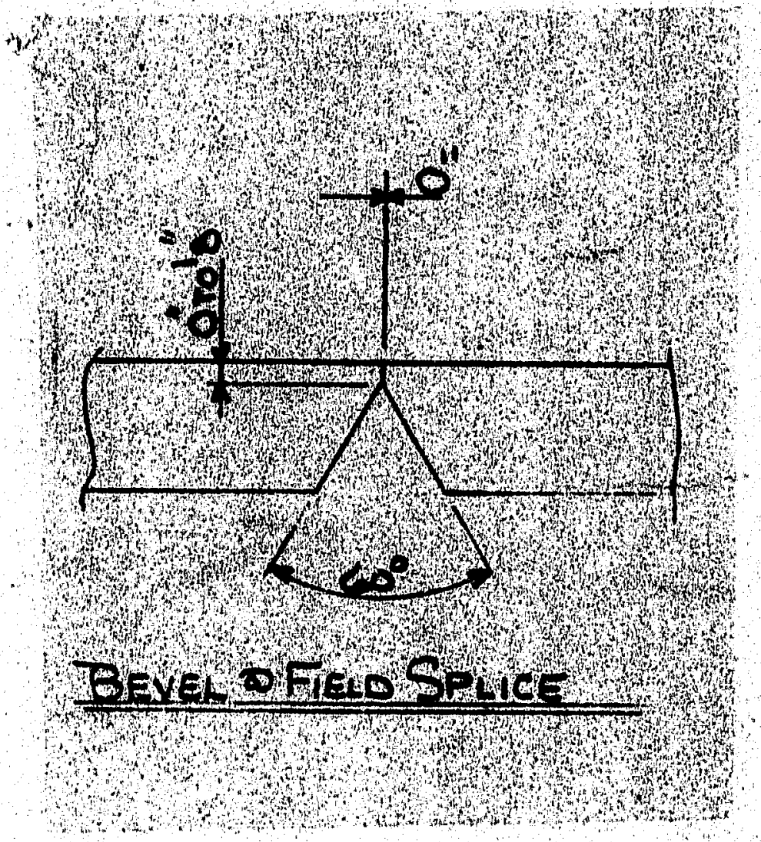
101-144

B Revised for Approval
A Revised for Approval

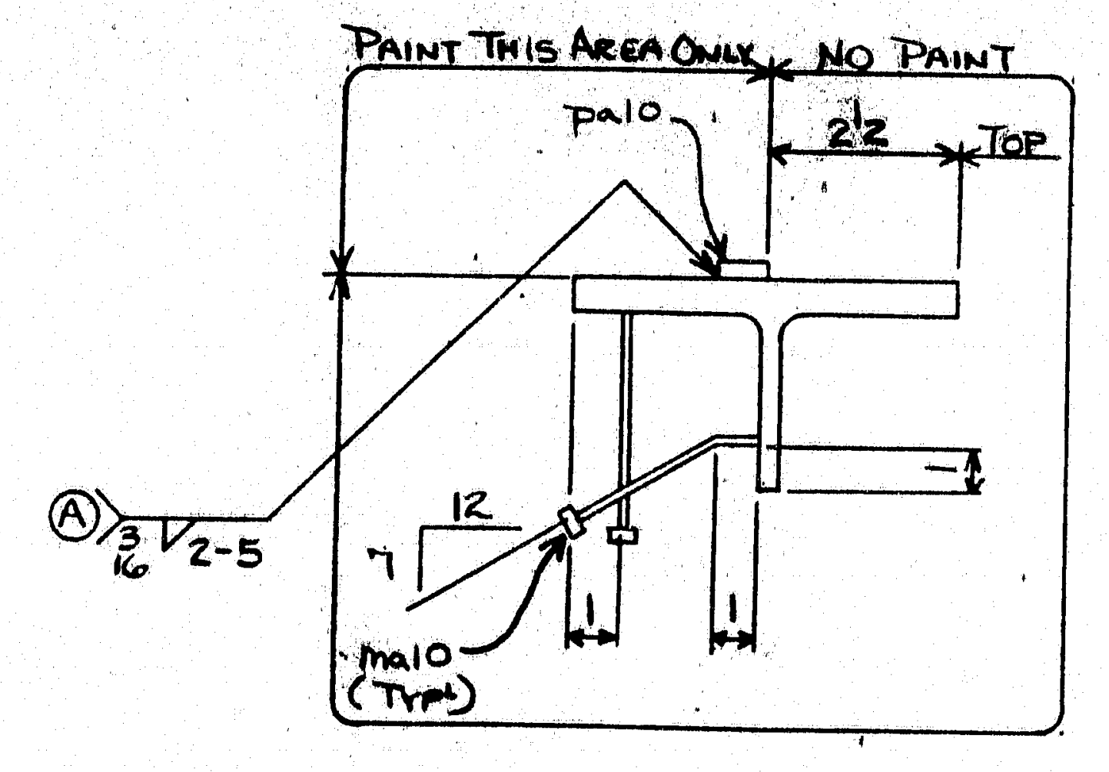


ONE-10M1

ONE-10M2



BEVEL @ FIELD SPLICE



SECTION A-A

SHOP NOTE: SEE DWG. 5 FOR ASSEMBLY

101-145

MATERIAL SCHEDULE

SHIPPING MARK	NO PCS.	SUB-ASSEM.	SHAPE	LENGTH FT	LENGTH IN	O OR S	CUT FROM NO	CUT FROM FT	CUT FROM IN	REMARKS		WT.
10M1	1		WT4x24	24	6 7/16		33600			BIE, COPE,	(613)	589
	10	pa10	BAR 1x3/8	1	0		⅃					13
	25	ma10	1/2 ⌀ CONC. ANCH.	0	8 1/8		—			w/F/F		11
10M2	1		WT4x24	16	10 5/8		33600			BIE, COPE,	(422)	405
	7	pa10	BAR				⅃					9
	17	ma10	C.A.				—					8

USE CUT LIST

— WELDING PROCEDURE —

Ⓐ FC-12F-03P △1
SM-2F-01P

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☑ Approved ☐ Returned for Corrections
JUL 26 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

PAY ITEM # 520.2201

△A REVISED PER APPROVAL △B REVISED PER APPROVAL

WEIGHED BY DW CHK'D BY TOTAL WEIGHT 1,035

[redacted]

WARNING
WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PRINT DISTRIBUTION	
PC	6-26-89 DW
FA	3-23-89
FA REV. CK.	5-2-89
FA	5-10-89
FA	6-7-89
APVD	6-20-89
SHOP	6/27/89
Field	6-28-89

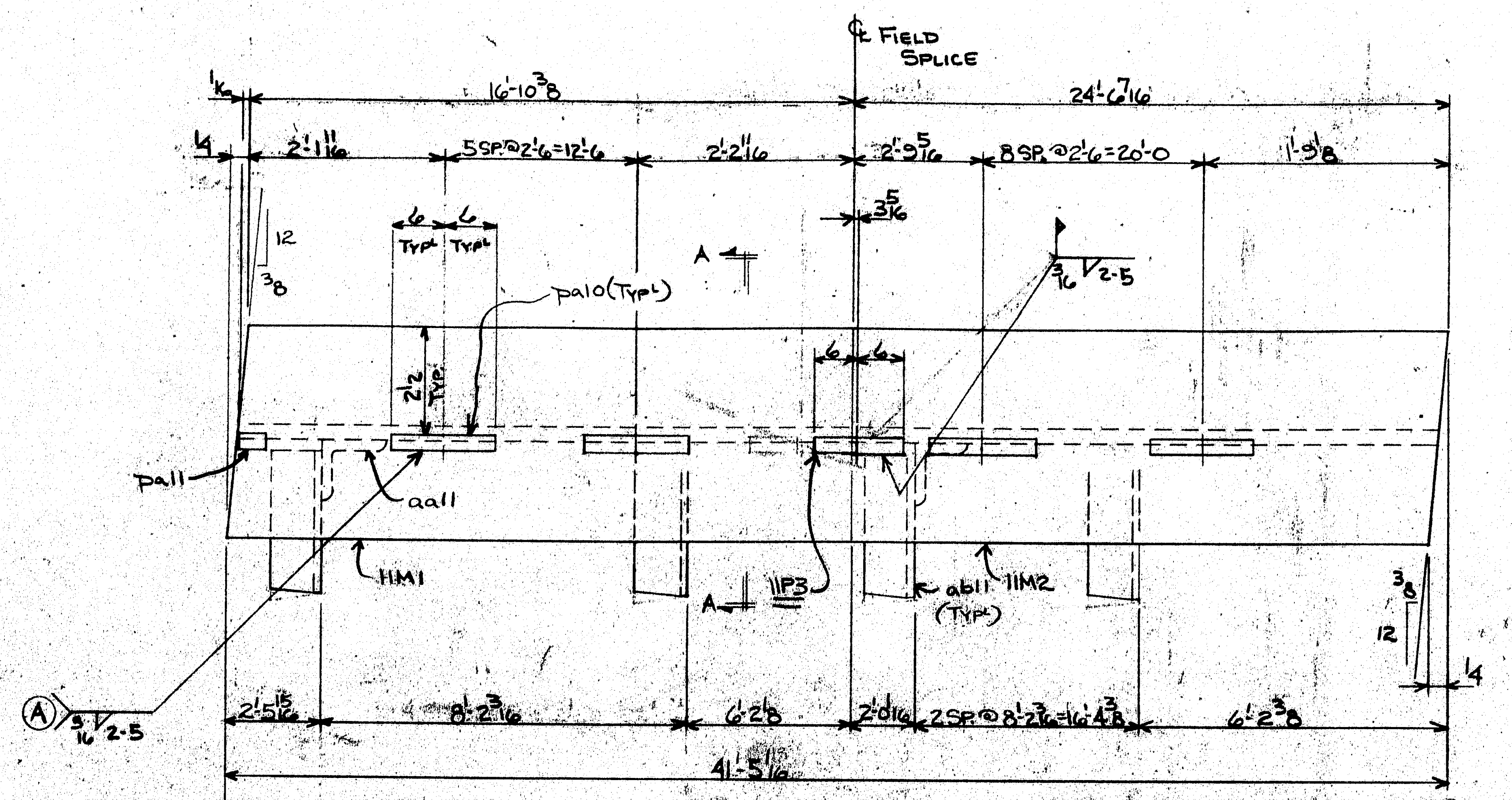
4R
25 IP
4R
4R
3R
7 BS

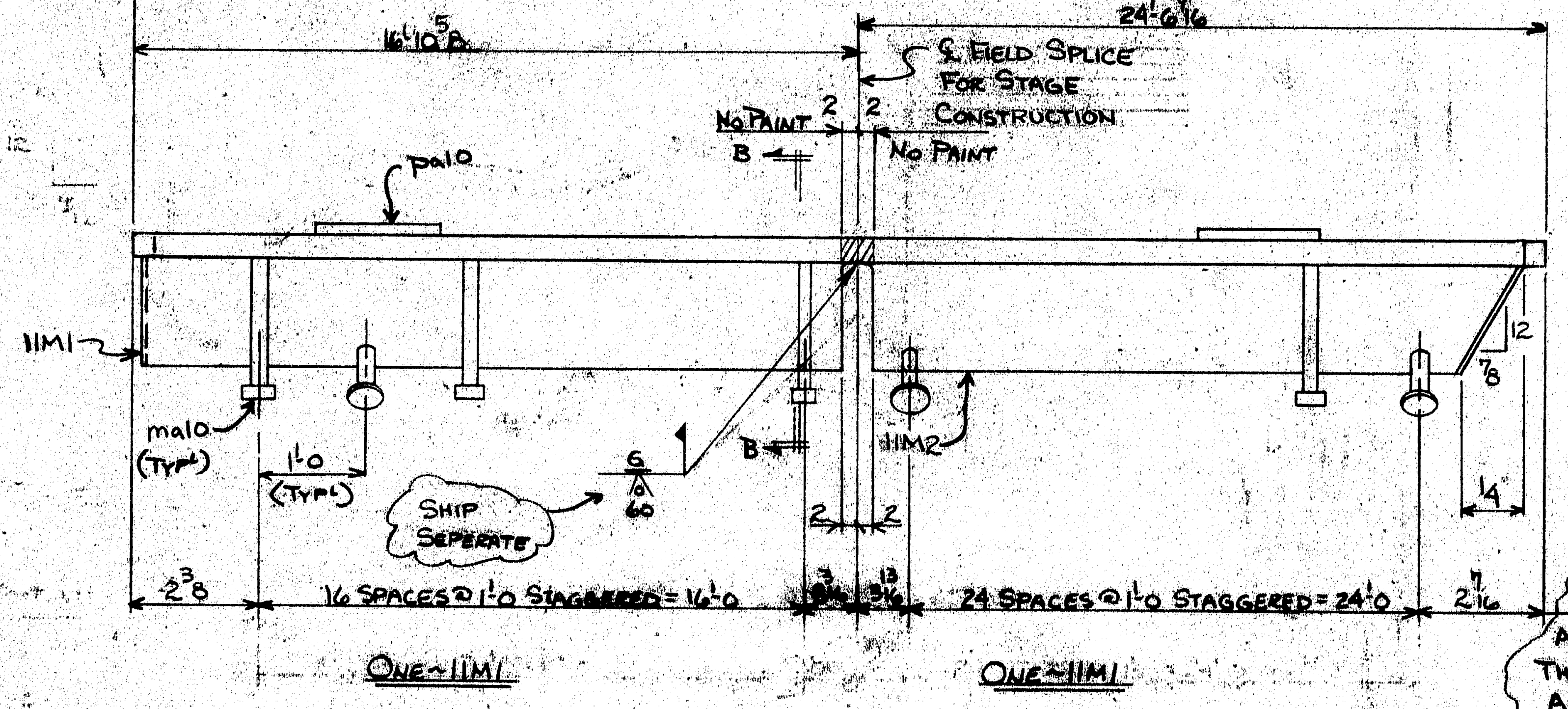
MATERIAL A36
BOLTS —
HOLES —
ELECTRODE SEE WELD PROCEDURE
SURFACE PREP SSPC-SP6
REF DWG. 4, 5, 9 OF 20
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET SEC. 708.02 ME.DOT. STD. SPEC. (ORANGE)
4 MILS WET FILM EA. COAT

MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

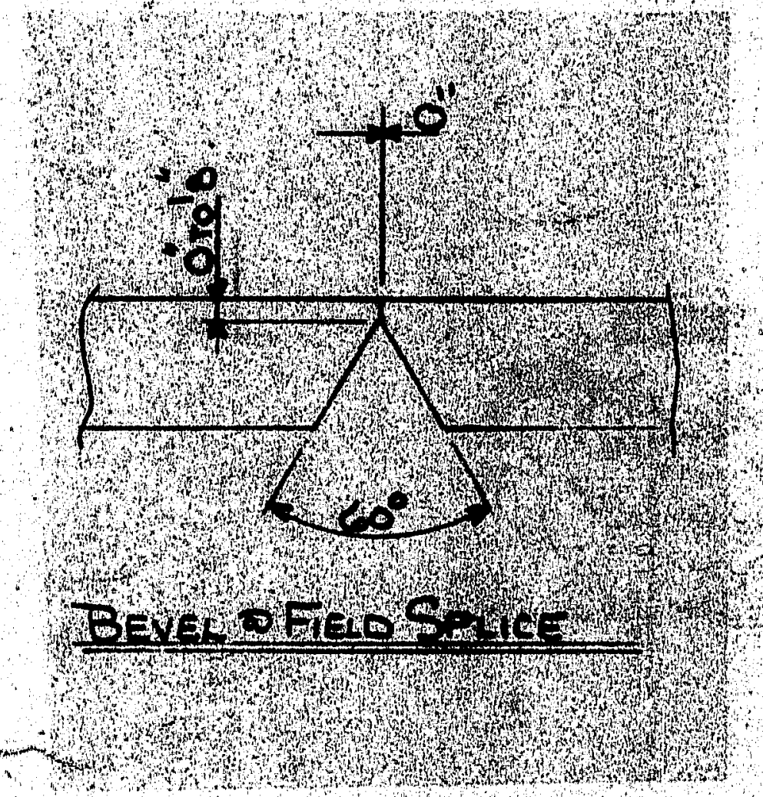
DESCRIPTION COMPRESSION SEAL (ABUTMENT #1)
PROJECT SANDY RIVER BRIDGE BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.

REV B DLS 6-5-89
REV A DLS 4-26-89
CHK'D GAU 2-16-89
DRWN DLS 1-30-89
JOB NO 89-670-5
DWG NO 10
REV B



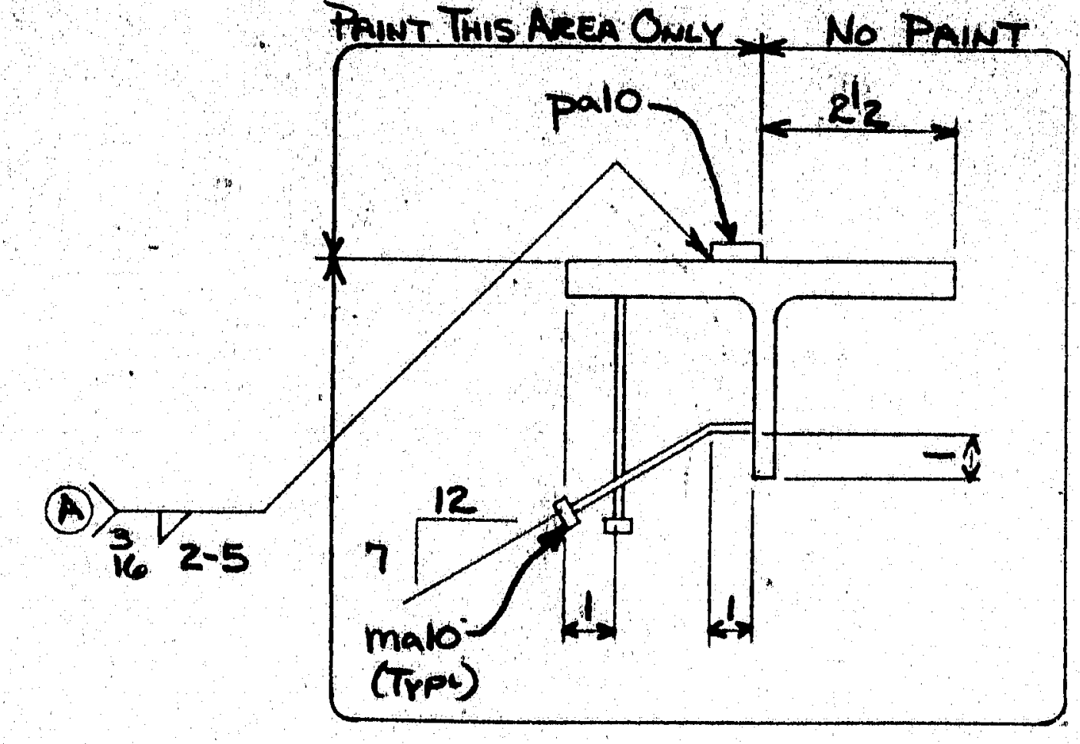


SHOP NOTE: ADJUST STUD LOCATION WHERE THEY INTERFERE WITH SUPPORT ANGLES

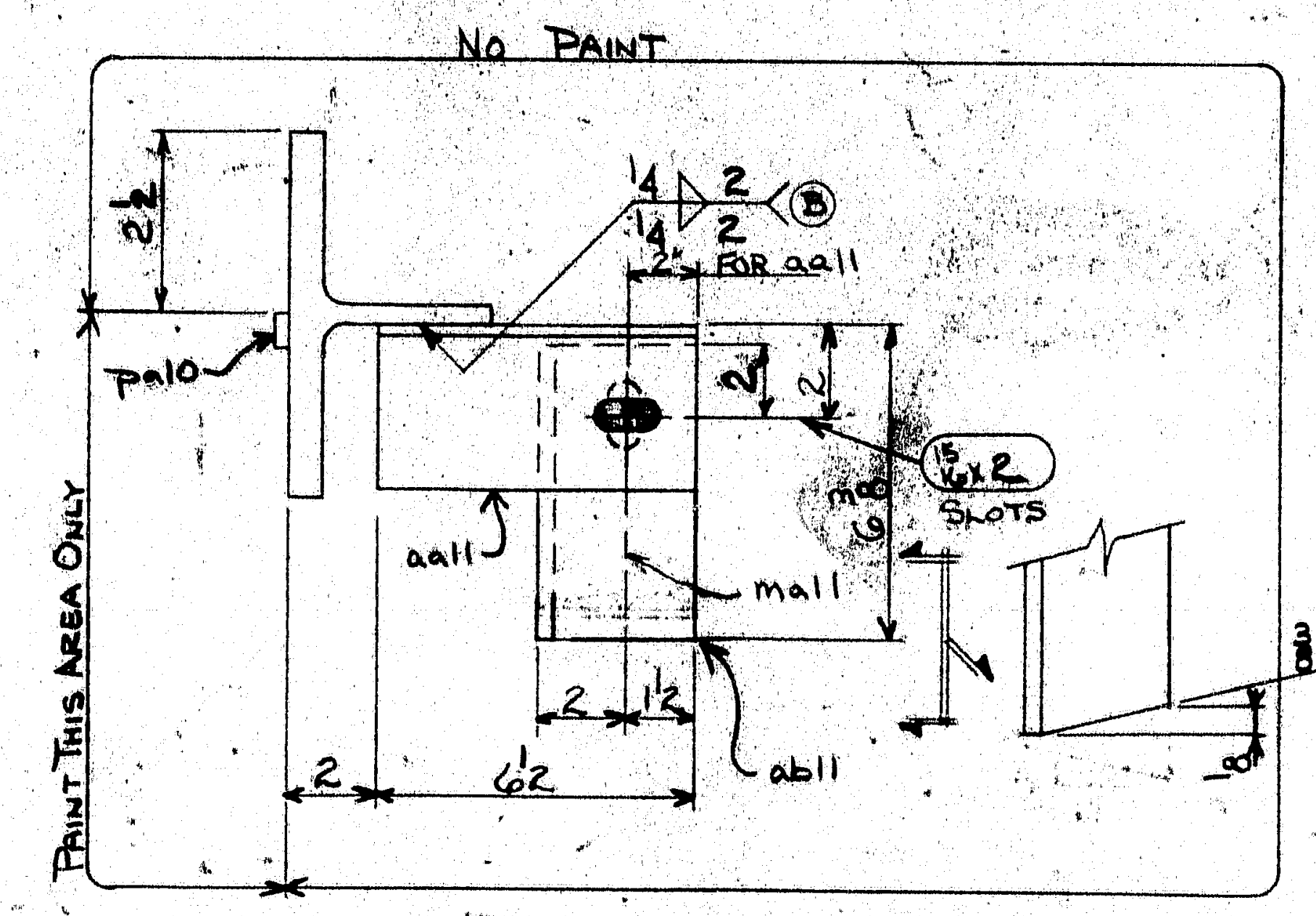


BEVEL @ FIELD SPLICE

SHOP NOTE: SEE DWG 9 FOR ASSEMBLY



SECTION B-B



SECTION A-A

101-146

MATERIAL SCHEDULE

SHIPPING MARK	NO PCS.	SUB-ASSEM.	SHAPE	LENGTH FT	LENGTH IN.	O OR S	CUT FROM NO	CUT FROM FT	CUT FROM IN	REMARKS		WT.
11M1	1		WT4x24	16	10 5/8	33600				BIE, COPE,	(442)	405
	6	pa10	BAR 1x3/8	1	0	⊥						8
	17	ma10	1/2ϕ CONC. ANCH	0	8 1/8	—				w/F.F.		8
	2	aa11	∠3 1/2x3 1/2x3/8	0	6 1/2	33600						9
	2	ab11	⊥	0	6 3/8	⊥				BIE		9
	2	ma11	7/8ϕ BOLT	0	2	33776				w/N&2W		2
	1	pa11	BAR 1x3/8	0	1 3/4	33600						1
11M2	1		WT4x24	24	6 7/16					BIE, COPE,	(642)	589
	9	pa10										11
	25	ma10	C.A.									11
	3	aa11	∠									14
	3	ab11	∠									14
	3	ma11	BOLT			TYP						3
11P3	1		BAR 1x3/8	1	0							1

USE CUT LIST

~WELDING PROCEDURE~

Ⓐ FC-12F-03P △A

SM-2F-01P

Ⓑ FC-2F-06P

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
JUL 26 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

PAY ITEM #520.2201

△B REVISED PER APPROVAL

△A REVISED PER APPROVAL

WEIGHED BY DW
CHK'D BY
TOTAL WEIGHT 1084#

[redacted]

WARNING
WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PRINT DISTRIBUTION
PC 6-26-89 DW
TP FA 3-23-89
25.18 FA 25 5-2-89
7E FA 5-10-89
TP FA 6-7-89
APVD 6-20-89
4P SHOP 6/27/89
FIELD 6-28-89

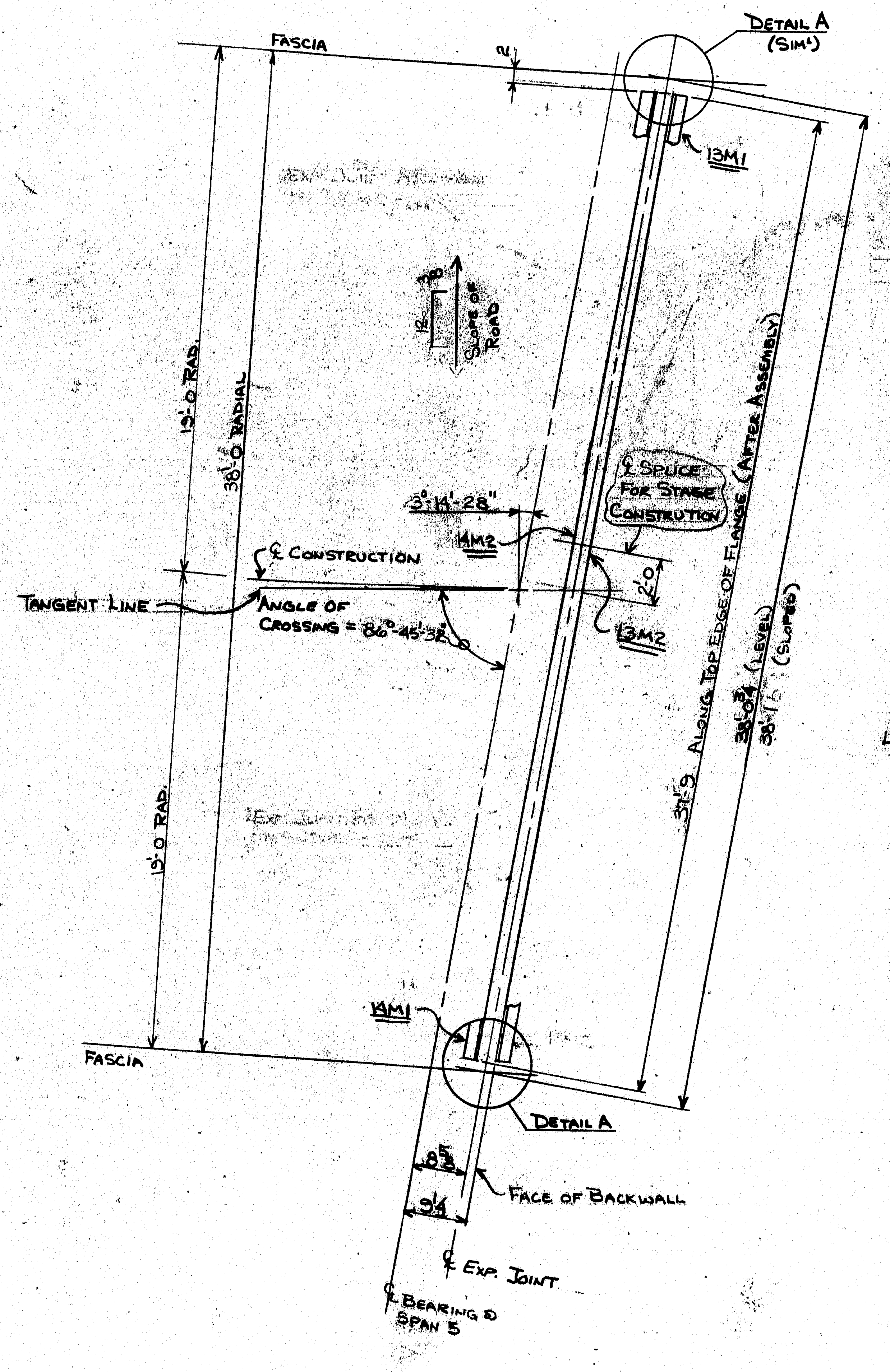
REV B DLS 6-5-89
REV A DLS 4-24-89
CHK'D GAU 2-16-89
DRWN DLS 2-6-89

MATERIAL A36
BOLTS A325
SURFACE PREP SSPC-SP6
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET SEC. 708.02 ME. DOT. STD. SPEC. (ORANGE)
4 MILS WET FILM EA. COAT
HOLES AS NOTED
ELECTRODE SEE WELD PROCEDURE
REF. DWG. 4,5,9 OF 20

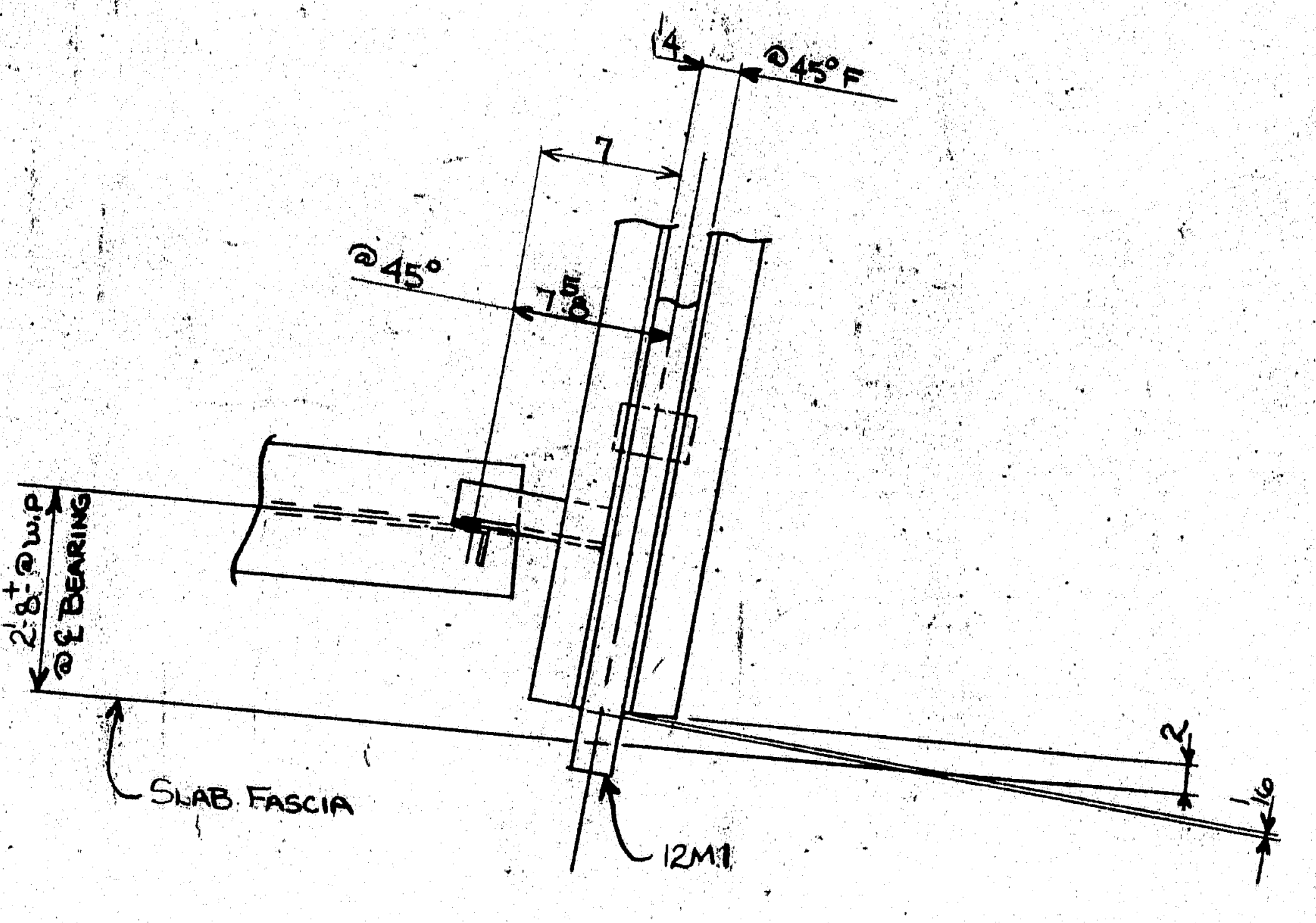
MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION COMPRESSION SEAL (ABUTMENT #1)
PROJECT SANDY RIVER BRIDGE BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.
JOB NO. 89-670-5
DWG. NO. 11
REV.



Plan @ Abutment #2



Detail A

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS	DASH	WT.
12M1	1		Compression Seal	38	9	33601	Shipped Direct			~~Type [illegible]~~ w/ Adhesive		

Shop Note:
For assemblies see Dwg 13 & 14.

USE CUT LIST

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
JUL 26 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

WARNING
WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

Pay Item # 520.2201

PRINT DISTRIBUTION	
FA	3-23-89
PM25 1PCK	5-2-89
FA	5-10-89
FA	6-7-89
APVD	6-20-89
Shop	6/27/89
Field	6-28-89

REV B DLS 6-5-89
REV A DLS 5-1-89
CHK'D [illegible]
DRAWN DLS 2-16-89

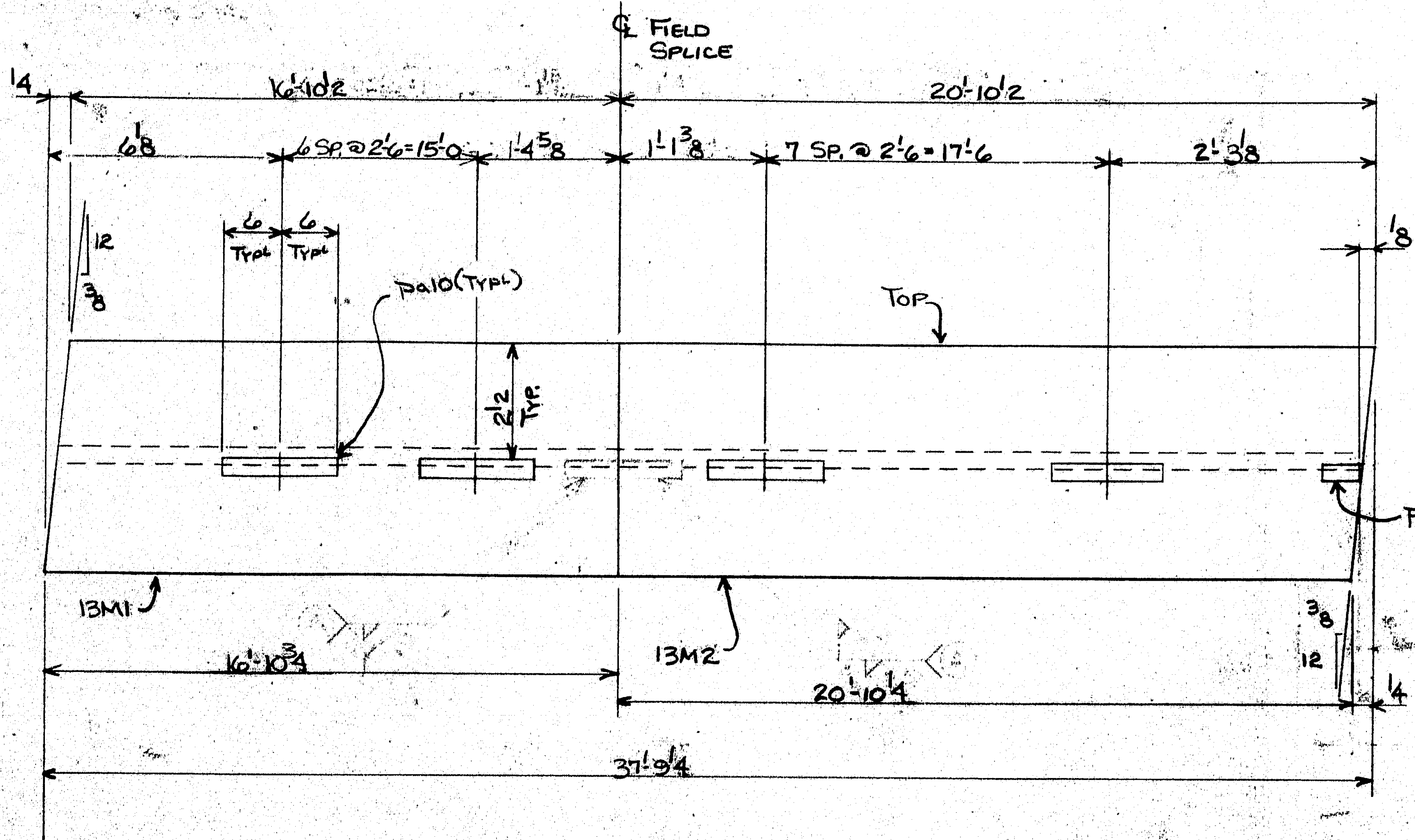
MATERIAL A36
BOLTS —
SURFACE PREP See Subassembly Dwgs.
PRIMER —
FINISH —
HOLES —
ELECTRODE See Weld Procedure -M-CIW
REF. DWG. 5, 9 of 20 & 13 & 14

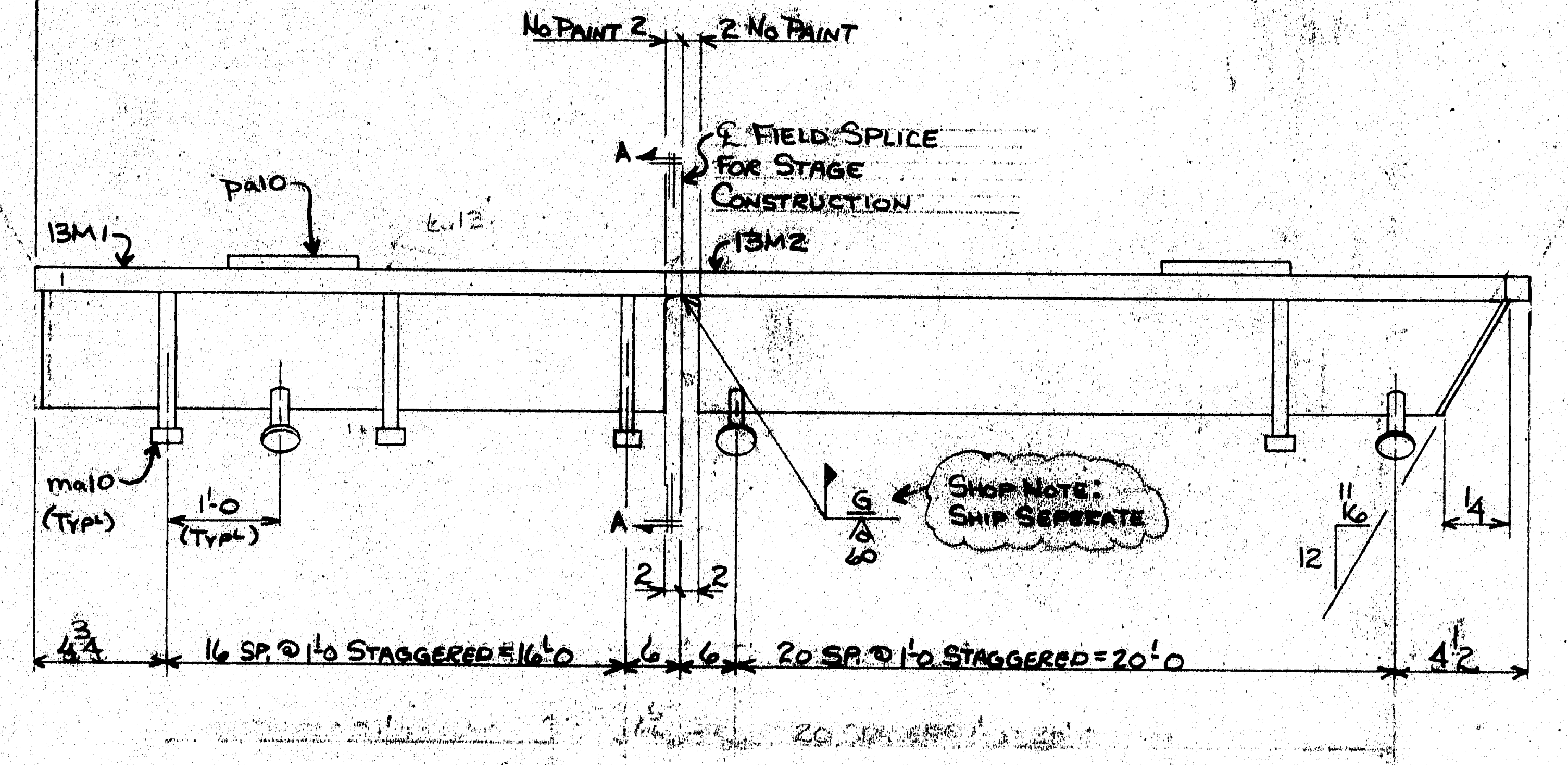
MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION Expansion Joint @ Abutment #2
PROJECT Sandy River Bridge Proj. No. BH-025-2(46)
LOCATION New Sharon, Me.
DESIGNER Me. D.O.T.
CUSTOMER Callahan Bros., Inc.
JOB NO. 89-670-5
DWG. NO. 12
REV. B

101-147

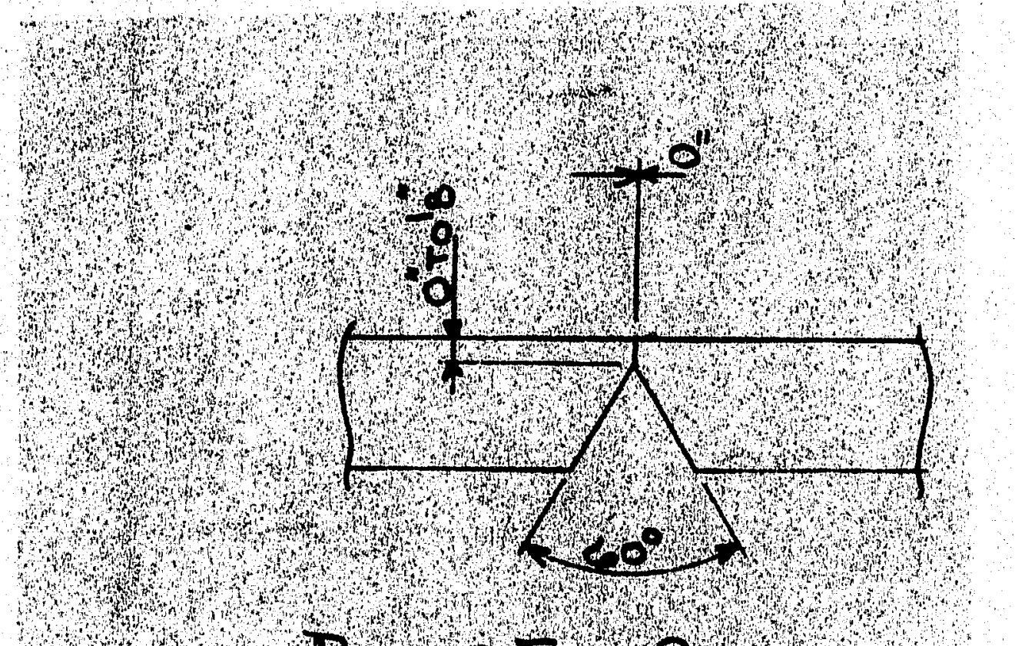
△B Revised Per Approval
△A Revised For Approval



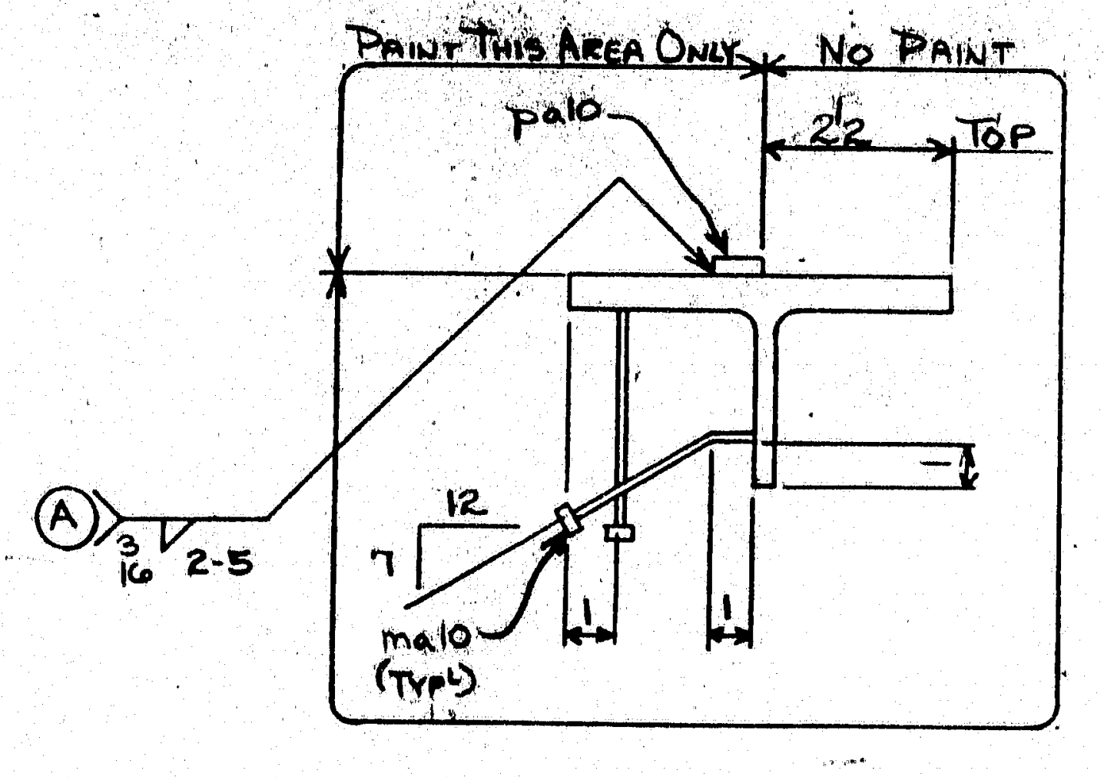


One~13M1

One~13M2



Bevel @ Field Splice



Section A-A

MATERIAL SCHEDULE

SHIPPING MARK	NO PCS	SUB-ASSEM.	SHAPE	LENGTH FT	LENGTH IN	O CR S	CUT FROM NO	CUT FROM FT	CUT FROM IN	REMARKS		WT.
13M1	1		WT4x24	16	10 3/4	33600				BIE, Cope (423)		406
	17	pa10	Bar 1x3/8	1	0							9
	17	ma10	1/2 ⌀ Conc. Anch.	0	8 1/8	—				w/F.F.		8
13M2	1		WT4x24	20	10 1/2	33600				BIE, Cope, (521)		501
	8	pa10	Bar									10
	1	pa13	Bar 1x3/8	0	3							1
	21	ma10	C.A.			—						9

USE CUT LIST

~Welding Procedure~

(A) FC-12F-03P ⚠1

SM-2F-01P

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
JUL 2 6 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

Pay Item # 520.2201

(A) Revised Per Approval (B) Revised Per Approval

WEIGHED BY. DW	CHK'D BY	TOTAL WEIGHT	944#

[redacted]

WARNING
WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PRINT DISTRIBUTION	
PC	6-26-89 DW
FA	3-23-89
FA 25 1PCK	5-2-89
FA	5-10-89
FA	6-7-89
APVD	6-20-89
SHOP	6/27/89
Field	6-28-89

TR
~~2SIP~~
TR
TR
~~3K~~
~~4NC~~

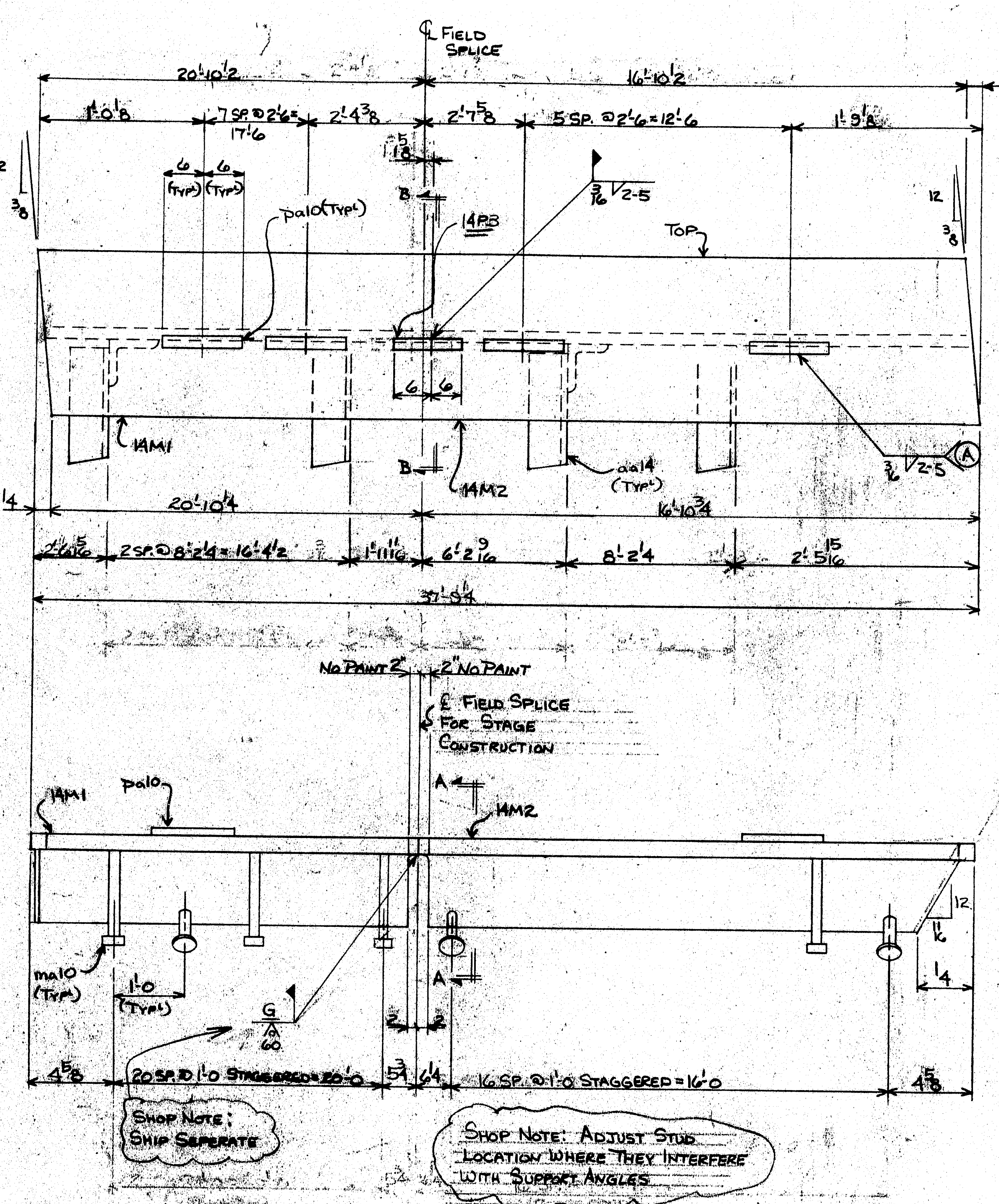
MATERIAL A36
BOLTS —
SURFACE PREP SSPC-SP6
PRIMER 3 Coats of Basic Lead Silico Chromate Paint To
FINISH Meet Sec. 708.02 Me.D.O.T. Std. Spec. (Orange)
4 Mils Wet Film Ea. Coat.
HOLES —
ELECTRODE See Weld Procedure
REF DWG 5, 7 of 20 & 12, 14 M.C.I.W.

MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-8671

DESCRIPTION Compression Seal (Abutment #2)
PROJECT Sandy River Bridge Proj. No. BH-025-2(46)
LOCATION New Sharon, Me.
DESIGNER Me.D.O.T.
CUSTOMER Callahan Bros., Inc.

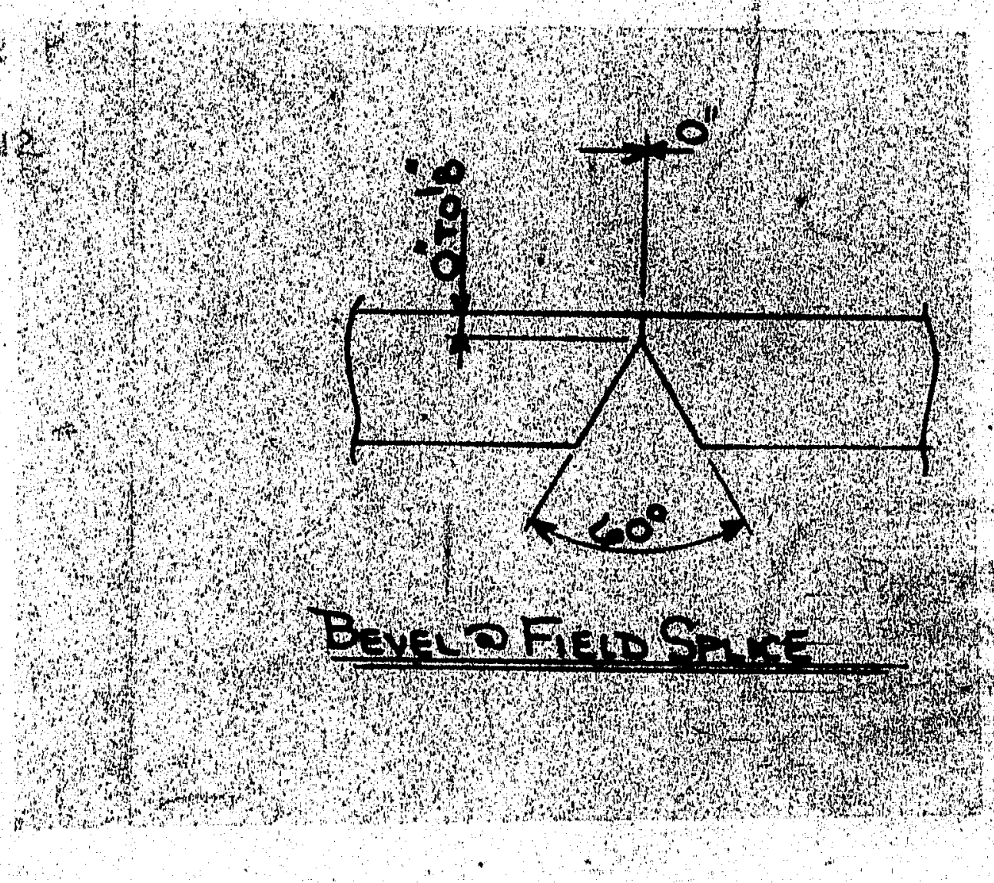
Rev B	DLS 6-5-89		
REV (A)	DLS 5-1-89		
CHK'D	[illegible]		
DRWN	DLS 2-14-89	JOB NO. 89-670-5	DWG. NO 13	REV. (B)

101-148

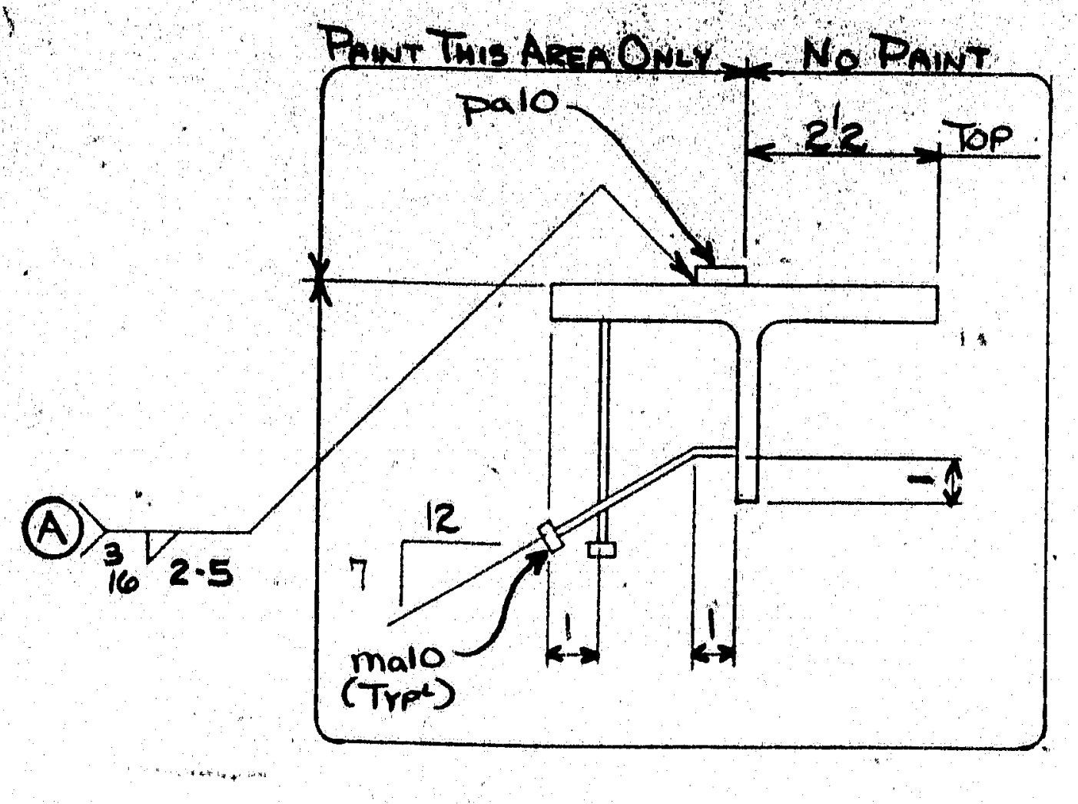


ONE-14M1

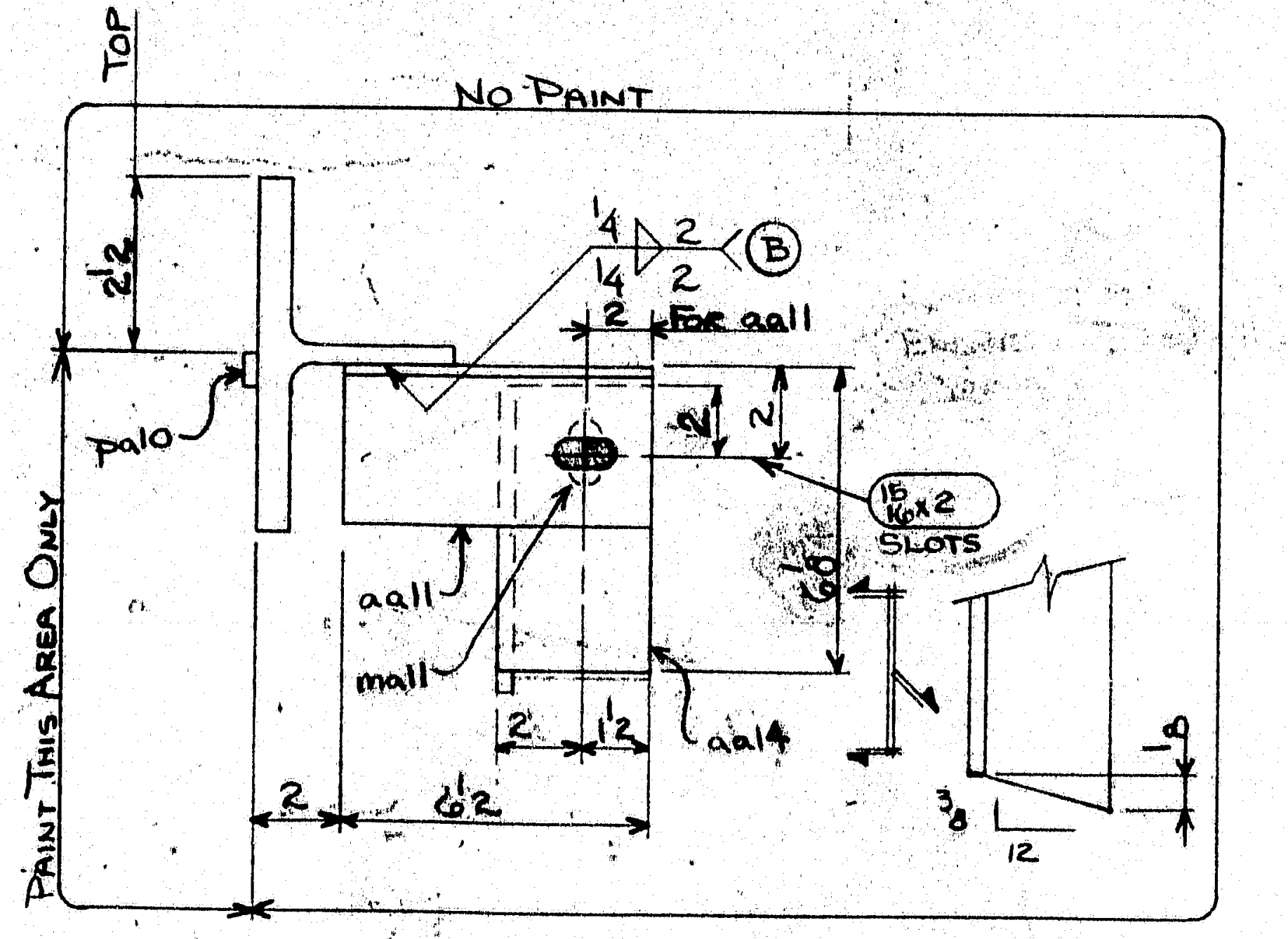
ONE 14M2



BEVEL @ FIELD SPLICE



SECTION A-A



SECTION B-B

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN	O CR S	CUT FROM NO	CUT FROM FT	CUT FROM IN	REMARKS		WT
14M1	1		WT4x24	20	10½	33600				BIE, COPE	(552)	501
	8	pa10	BAR 1x⅜	1	0	~						10
	21	ma10	½ø CONC. ANCH.	0	8⅛	~				w/F.F.		9
	3	aa11	∠3½x3½x⅜	0	6½	33600						14
	3	aa14	~	0	6¼	~				BIE		13
	3	ma11	⅞ø BOLT	0	2	33776				w/N&2W		3
14M2	1		WT4x24	16	10¾					BIE, COPE,	(412)	406
	6	pa10	BAR									8
	17	ma10	C.A.									8
	2	aa11	∠									9
	2	aa14	∠			TYP						9
	2	ma11	BOLT									2
14P3	1		BAR 1x⅜	1	0	~						1

USE CUT LIST

~WELDING PROCEDURE~

Ⓐ FC-12F-03P △1
SM-2F-01P

Ⓑ FC-2F-06P

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
JUL 26 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

PAY ITEM # 520.2201

△A REVISED PER APPROVAL △B REVISED PER APPROVAL

WEIGHED BY Du | CHK'D BY | TOTAL WEIGHT 993#

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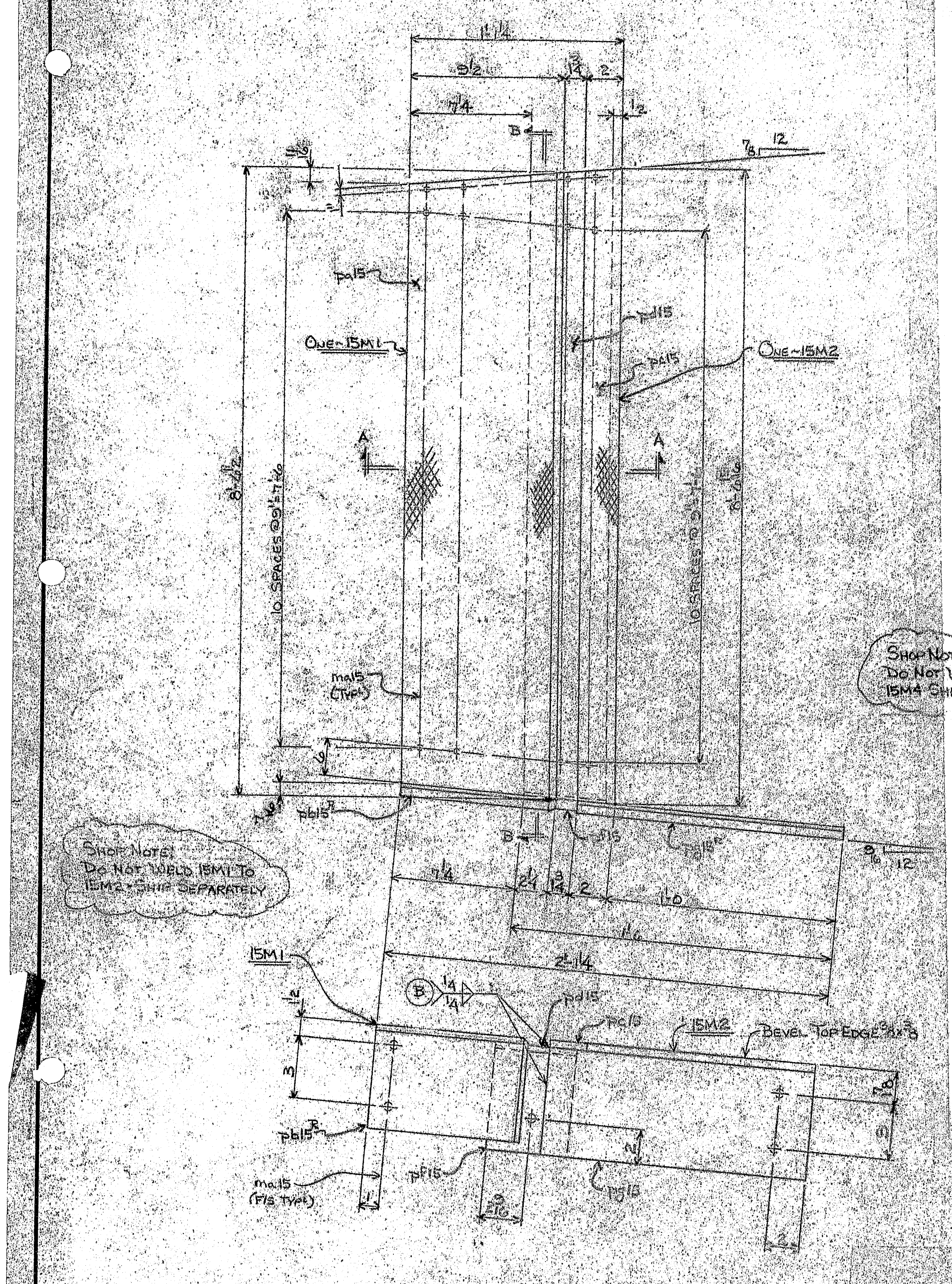
~~7R~~ FA	3-23-89
~~25R~~ 25FA 1PCK	5-2-89
~~4R~~ FA	5-10-89
~~7R~~ FA	6-7-89
APVD	6-20-89
SHOP	6/27/89
FIELD	6-28-89
REV B	DIS 6-5-89
REV △A	DIS SKF 5-1-89
CHK'D	GW 3/21/89
DRWN	DWB 3-16-89

MATERIAL A36
HOLES AS NOTED
BOLTS A325
ELECTRODE SEE WELD PROCEDURE
SURFACE PREP SSPC-SP6
REF. DWG. 5,9 OF 20 & M-CIW 12813
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET SEC. 708.02 ME.D.O.T STD. SPEC. (ORANGE)
4 MILS WET EA. COAT.

MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2871

DESCRIPTION COMPRESSION SEAL (ABUTMENT #2)
PROJECT SANDY RIVER BRIDGE PROJ. NO. BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.
JOB NO. 89-470-5
DWG. NO. 14
REV. △B

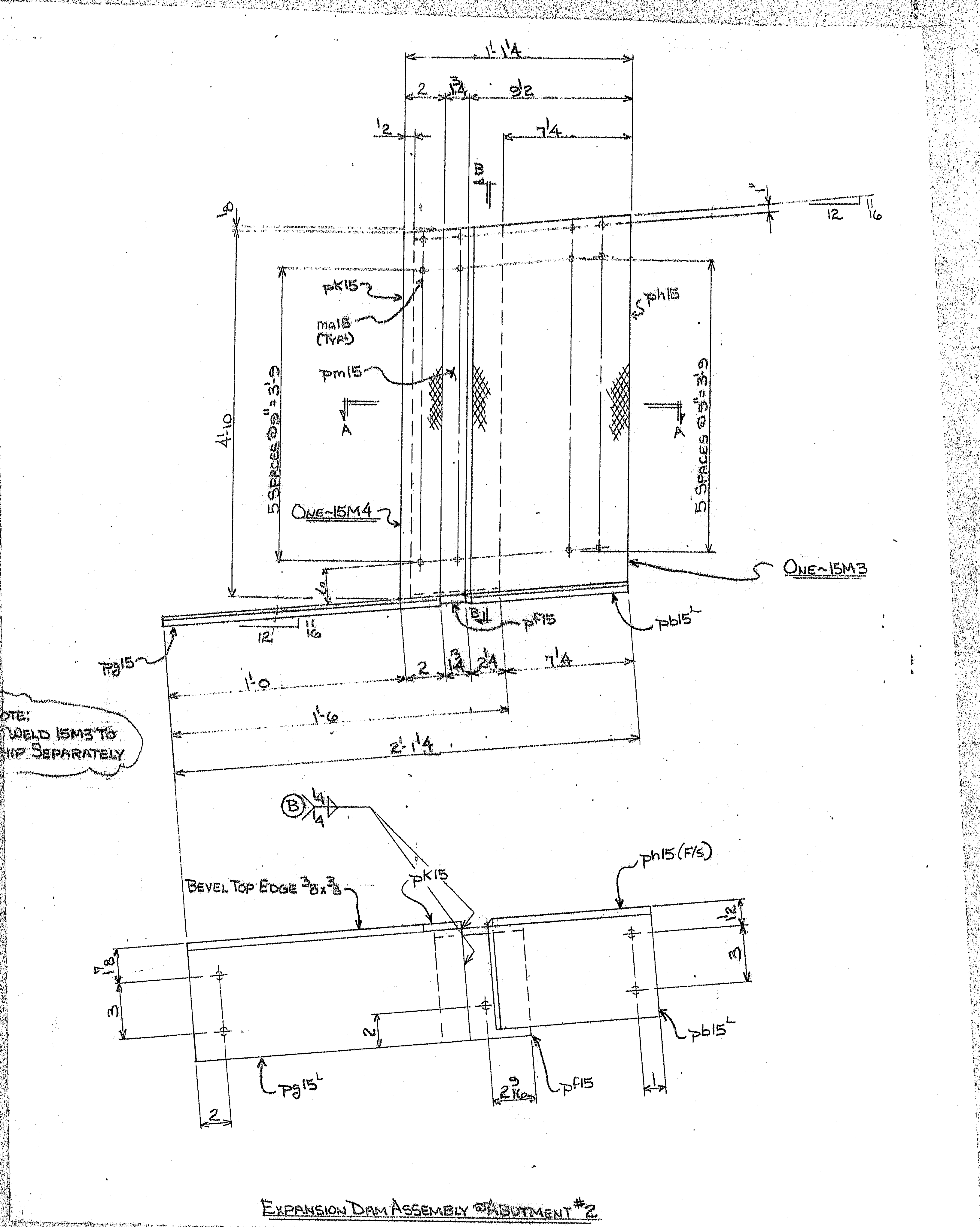
101-149



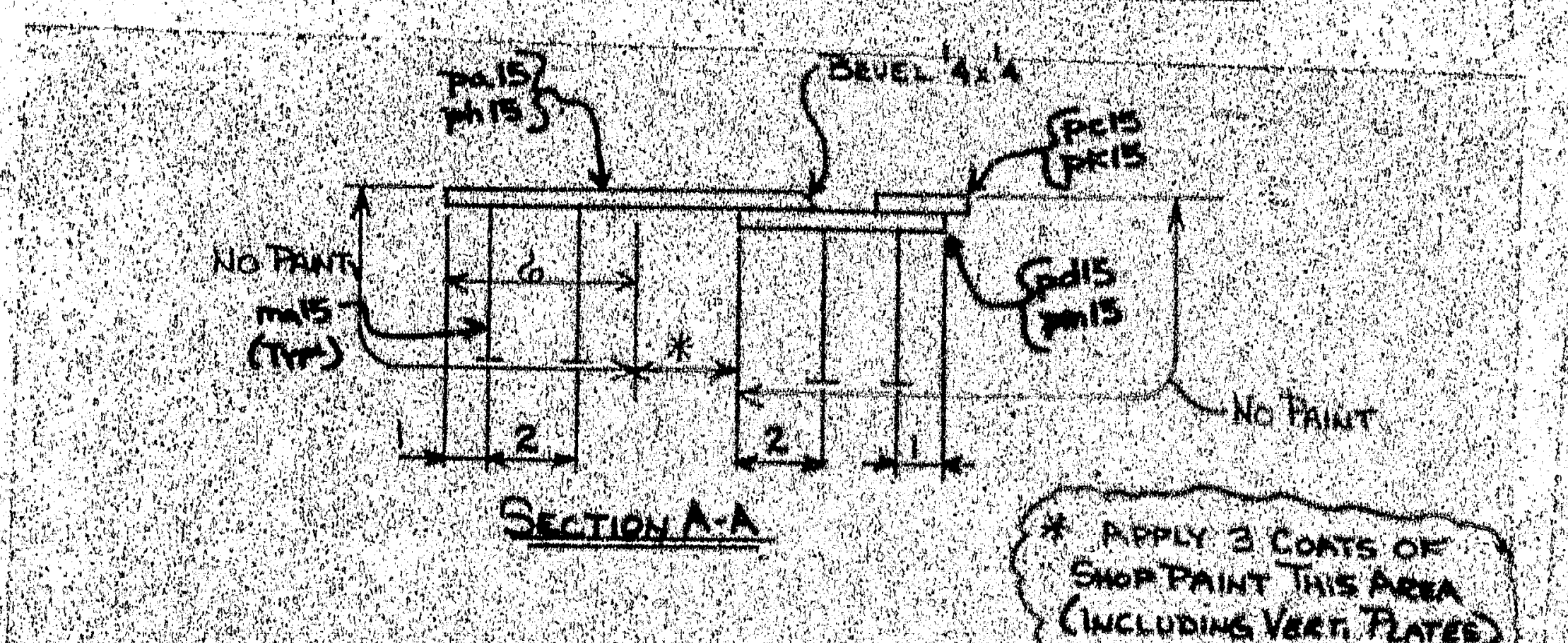
Shop Note: Do Not Weld 15M1 To 15M2 - Ship Separately

Shop Note: Do Not Weld 15M3 To 15M4 Ship Separately

EXPANSION DAM ASSEMBLY @ ABUTMENT #1

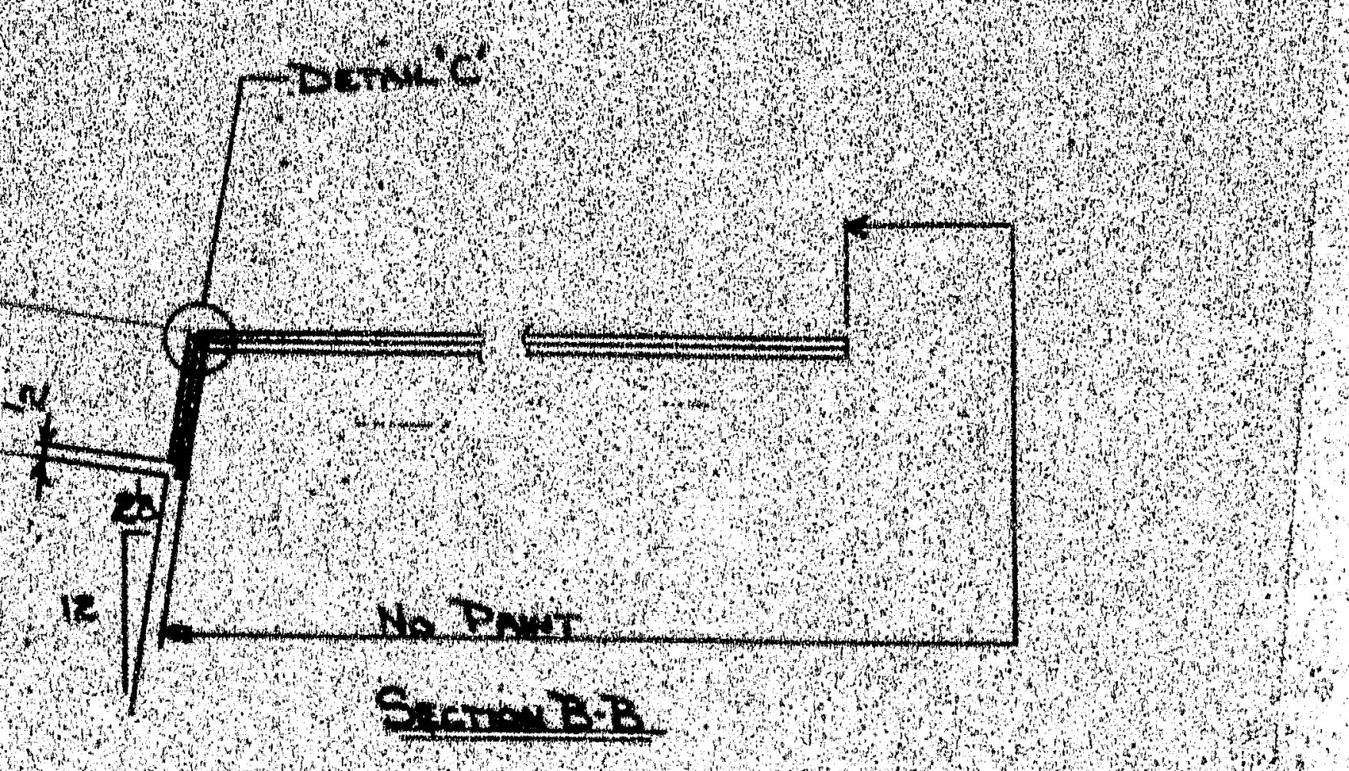


EXPANSION DAM ASSEMBLY @ ABUTMENT #2

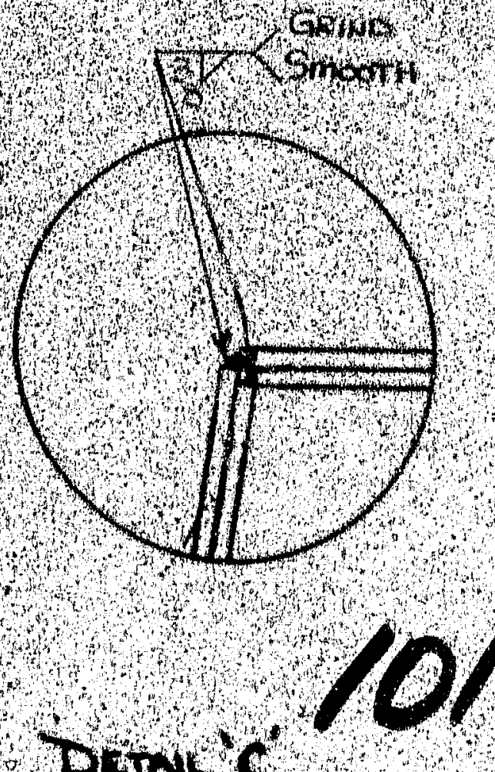


SECTION A-A

* APPLY 3 COATS OF SHOP PAINT THIS AREA (INCLUDING VERT. PLATES)



SECTION B-B



DETAIL 'C'

101-150

△ Revised Per Approval
△ Revised Per Approval

MATERIAL SCHEDULE

SHIPPING MARK	NO. POS.	SUB. ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS	DASH	WT.
15M1	1		Expansion Dam	8	9⅝	—				([illegible])		
	1	pa15	Chk'd Pl 3/8 x 9½	8	6½	336/00				B2E & Bevel 1 Edge		117
	1	pb15^R	Pl 3/8 x 5 3/16	0	9½	Dom 372				⊥		9
	26	ma15	⅝ø Conc. Anch.	0	8⅛	—				w/E.F.		11
15M2	1		Expansion Dam	8	9⅝					(116)		
	1	pc15	Chk'd Pl 3/8 x 2	8	6 15/16					B2E		24
	1	pd15	Pl 3/8 x 5½	8	6½					⊥		[illegible]
	1	pf15	Pl 3/8 x 5 5/16	0	5½							3
	1	pg15^R	Pl 3/8 x 6 1/16	1	2					Bevel 1 Edge, Shape		9
	27	ma15	C.A.									12
15M3	1		Expansion Dam	5	0⅝					(72)		
	1	ph15	Chk'd Pl 3/8 x 9½	4	10 9/16					B2E & Bevel 1 Edge		65
	1	pb15^L	Pl.									9
	16	ma15	C.A.									7
15M4	1		Expansion Dam	5	0⅝					(68)		
	1	pk15	Chk'd Pl 3/8 x 2	4	10⅝					B2E		14
	1	pm15	Pl 3/8 x 5½	4	9⅝					⊥		34
	1	pf15	Pl.									3
	1	pg15^L	Pl.									9
	17	ma15	C.A.									7

TYP

~ Welding Procedure ~

(A) SM-2F-01P
FC-12F-05P △

(B) FC-2F-06P

USE CUT LIST

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
JUL 0 6 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

Pay Item: 520.2201

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CHK'D BY
TOTAL WEIGHT

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PRINT DISTRIBUTION	
PC 6-[illegible]	
FA	3-23-89
25FB 1DCK	6-7-89
FA	5-10-89
FA	6-8-89
APVD	6-20-89
SHOP	6/27/89
Field	6-28-89

MATERIAL A36
BOLTS —
SURFACE PREP SSPC-SP6
PRIMER One Coat of Basic Lead Silico Chromate Paint To
FINISH Meet Sec. 708.02 Me.D.O.T. Std. Spec. (Orange) UNO
4 Mils Wet Film Ea. Coat
HOLES —
ELECTRODE See Weld Procedure
REF. DWG. 4, 5, 9 of 20

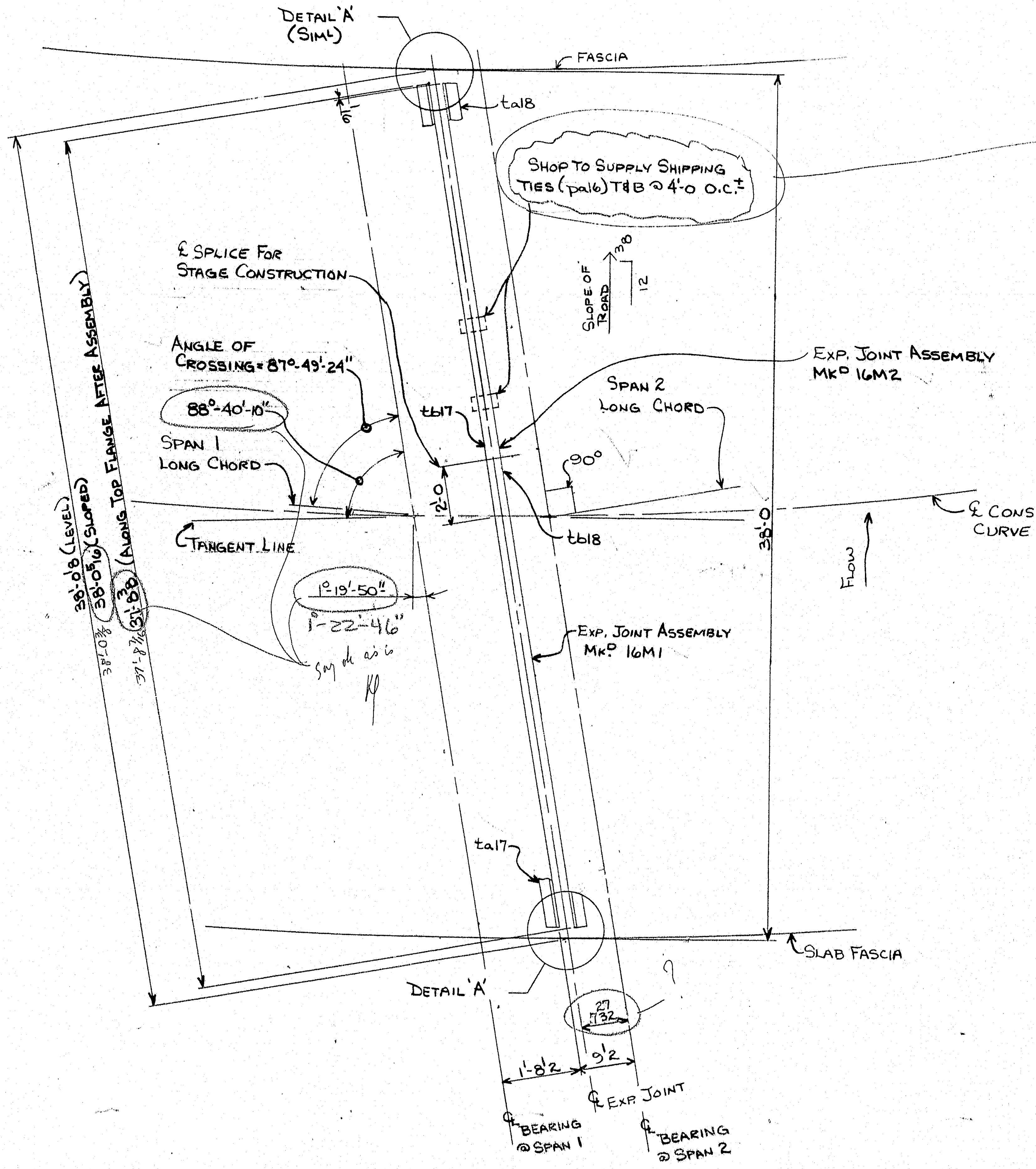
MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

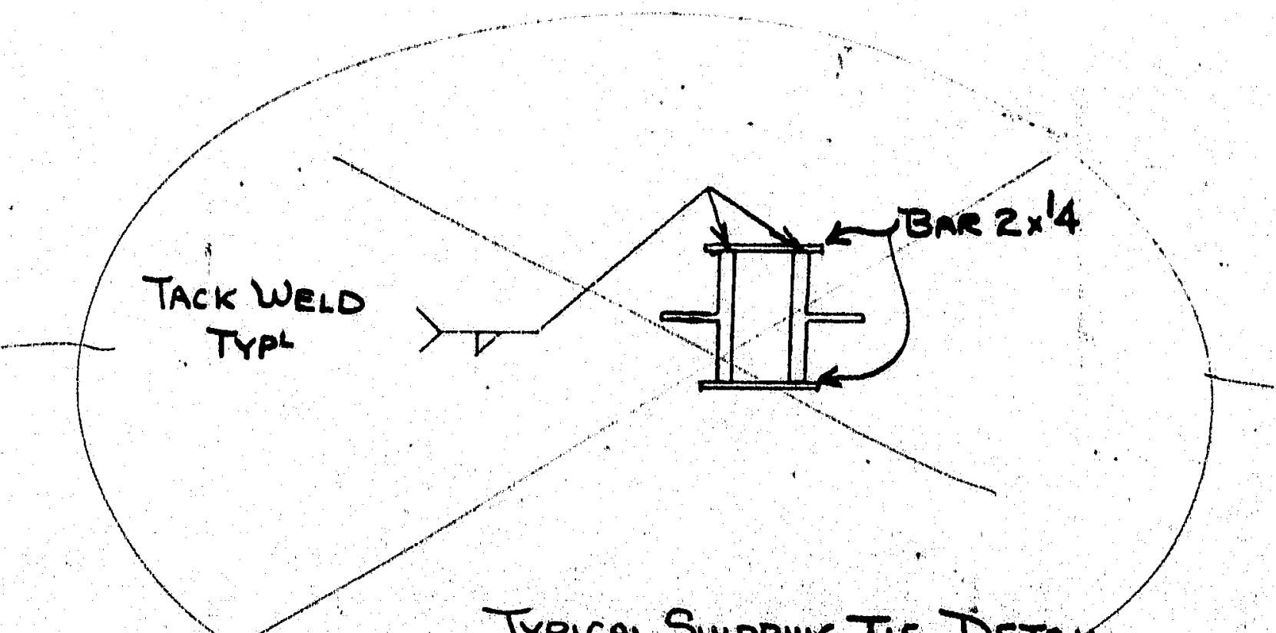
DESCRIPTION Expansion Dams @ Abutment #1 & #2
PROJECT Sandy River Bridge Proj. No. BH-025-2(46)
LOCATION New Sharon, Me.
DESIGNER Me.D.O.T.
CUSTOMER Callahan Bros., Inc.

REV B	DLS 6-8-89
REV △	DLS 5-2-89
CHK'D	[illegible]
DRWN	DLS 2-21-89

JOB NO. 2040-10-G
DWG. NO. 15
REV. △

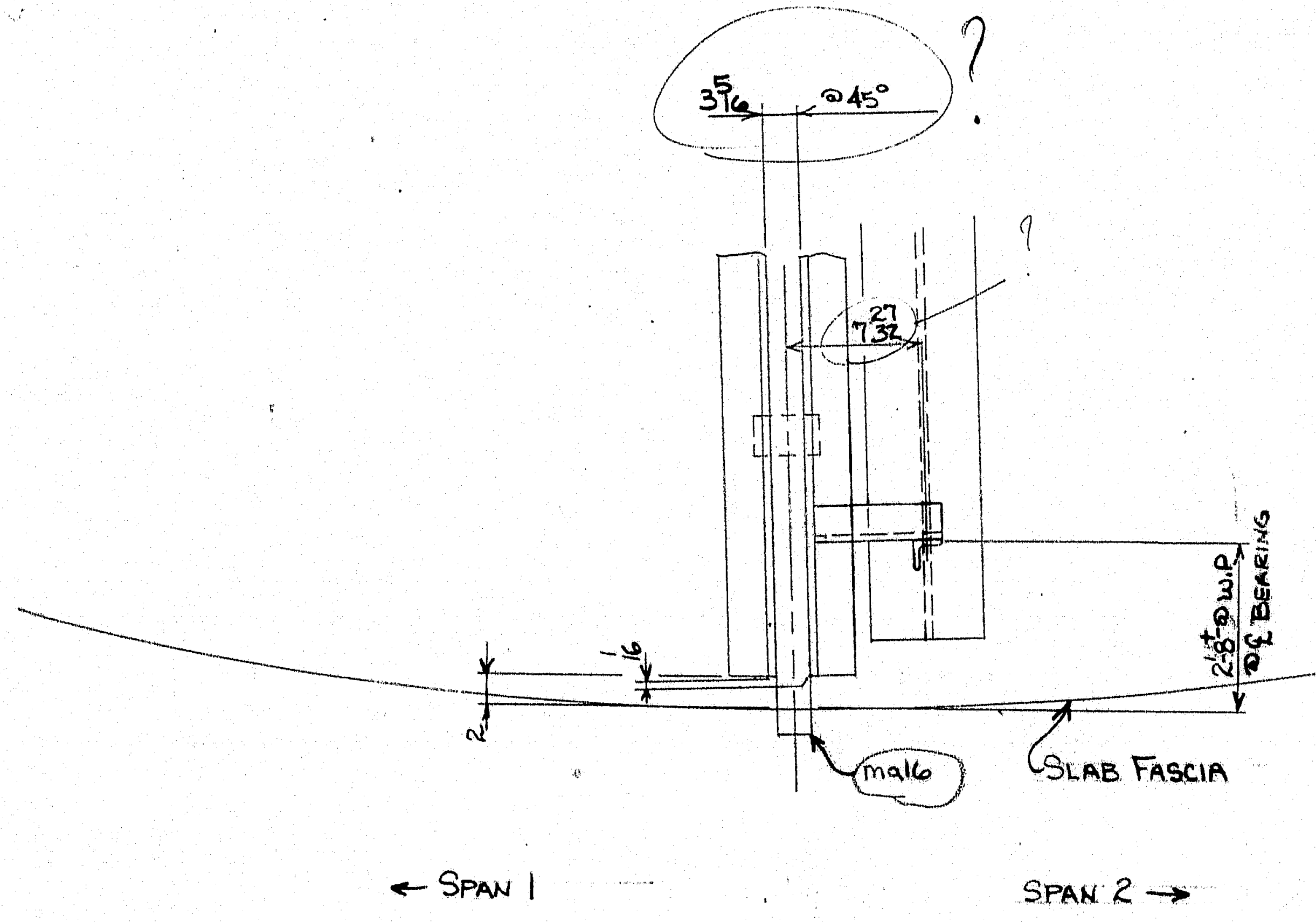


Plan @ Pier #1



Typical Shipping Tie Detail

No!!! If used, shipping devices must be adjustable, ~~[illegible]~~ that needed for stage construction however



Detail 'A'

MATERIAL SCHEDULE

47

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS	DASH	WT.
16M1	1		Exp. Joint	20	10 1/4	10 3/16						
16M2	1		⊥	16	9 15/16	10 3/16						
16M3	1		Compression Seal	39	0					Type WA-500 w/Adhesive Trim Ends In Field		
18	pa16		Bar 2 x 1/4	0	4 1/4					Shipping Ties		

Shop Note: For Subassemblies See Dwg 17 & 18

exceeds 3 1/2" Max joint opening. Approved only for joints with coverplate.

CALLAHAN ... INC.
Mecha...
This ... found ... and specifications ... this project.
By Timothy ... 5-18-89
See Paragraph "Shop D... tions Of The Specificati... of this Approval and respons... of the Contractor. In no case are ... Approval is not to be construed as permitting omission of specified details necessary or specified but not specifically detailed or mentioned on the approved drawing.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 20 1989
☒ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

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FA	3-23-89
FA △A	5-16-89

7P
7P, 25

MATERIAL A36
BOLTS ——
SURFACE PREP See Subassembly Dwgs
PRIMER ⊥
FINISH
HOLES ——
ELECTRODE See Weld Procedure
REF. DWG. 5,9 of 20 & M-C.I.W. 17,18

MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

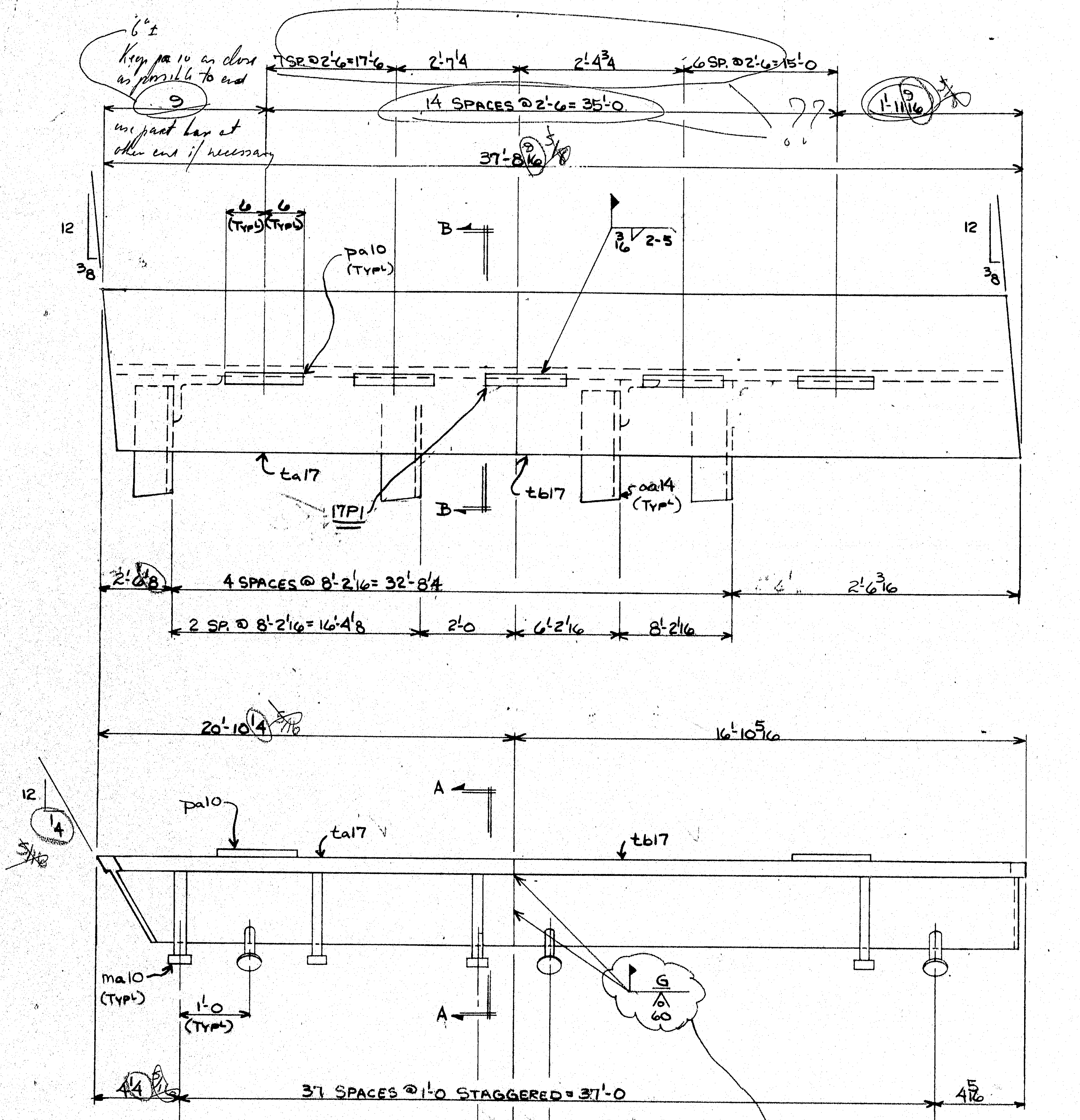
DESCRIPTION Expansion Joint @ Pier #1
PROJECT Sandy River Bridge Proj. No. BH-025-2(46)
LOCATION New Sharon, Me.
DESIGNER Me. D.O.T.
CUSTOMER Callahan Bros., Inc.

REV △A DLS 5-8-89
CHK'D SJS 3/21/89
DRWN DLS 2-23-89
JOB NO 89-670-6
DWG. NO. 16
REV. △A

LRT 6-19-89

101-151

Rev △A Revised Per Approval



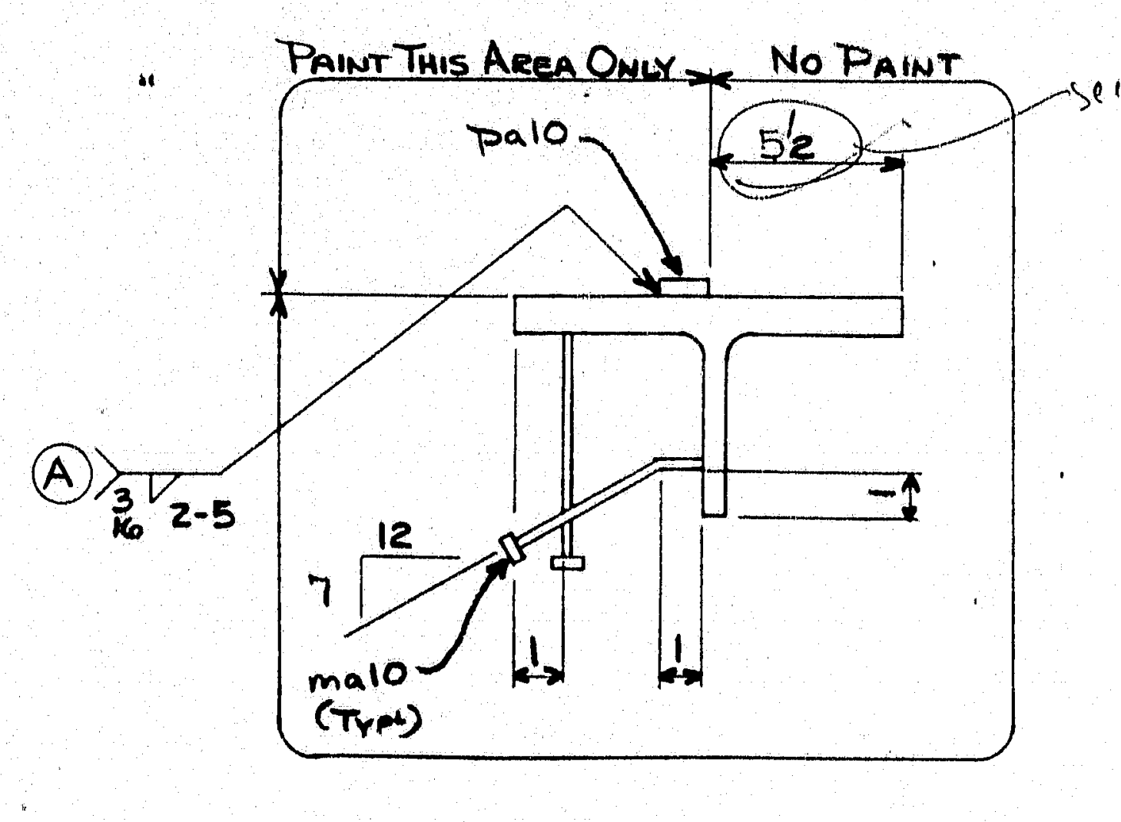
Shop Note:
Ship in 2 Pieces

One-ta17

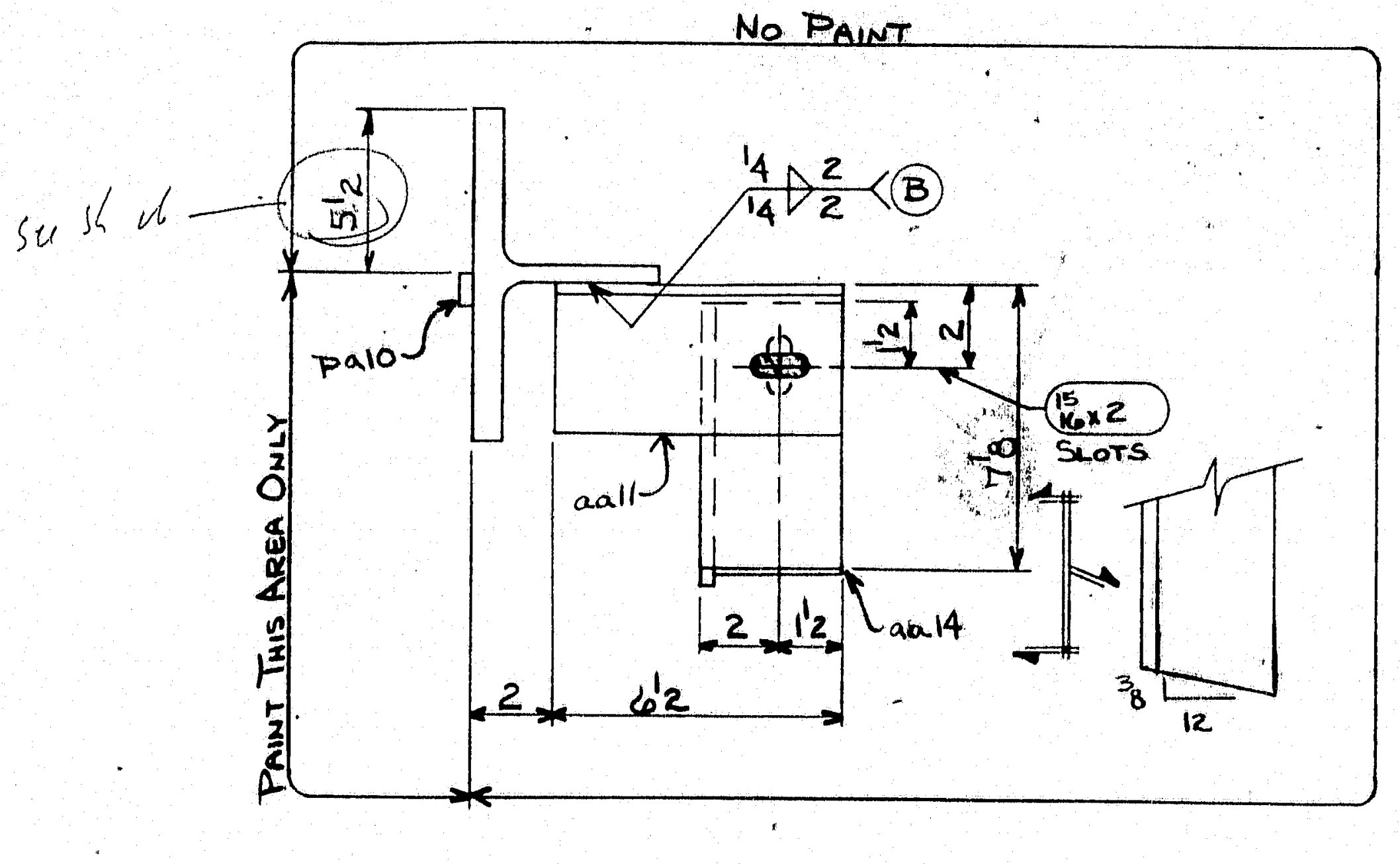
One-tb17

Paint Note:
1st Coat - Orange
2nd Coat - Maroon
3rd Coat - Gray

Shop Note:
See Dwg 16 For
Assembly



Section A-A



Section B-B

LRT 6-19-89

101-152

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT	LENGTH IN	Q OR S	FROM NO.	FROM FT	FROM IN	REMARKS		WT
ta17	1		WT4x24	20	10¼					BIE & PREP 1 END		
tb17	1		WT4x24	16	10 5/16					⊥		
	14	pa10	BAR 1x⅜	1	0							
	38	ma10	½ø CONC. ANCH.	0	8⅛					W/F.F.		
	5	aa11	∠3½x3½x⅜	0	6½							
	5	aa14	⊥	0	6¾					BIE		
	5	ma11	⅞ø BOLT	0	2¼					W/N & 2W		
17P1	1		BAR 1x⅜	1	0							

CALLAHAN BROS., INC.
Mechanic Falls, Me.

This material has been reviewed and found to be in conformance with plans and specifications prepared for this project.

Timothy J Rogan Date 5-18-89

The Paragraph "Plans ... " Special Conditions ... the Quantities as to Limitations ... responsibility of the Contractor. In no case are Quantities Guaranteed. Approval is not to be construed as permitting omission of specified details necessary or specified but not specifically detailed or mentioned on the approved drawing.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 20 1989
☒ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

~ WELDING PROCEDURE ~

Ⓐ FC-12F-03P △1
SM-2F-01P

Ⓑ FC-2F-06P

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REVISED

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REVIEWED BY KJ 6/20/89

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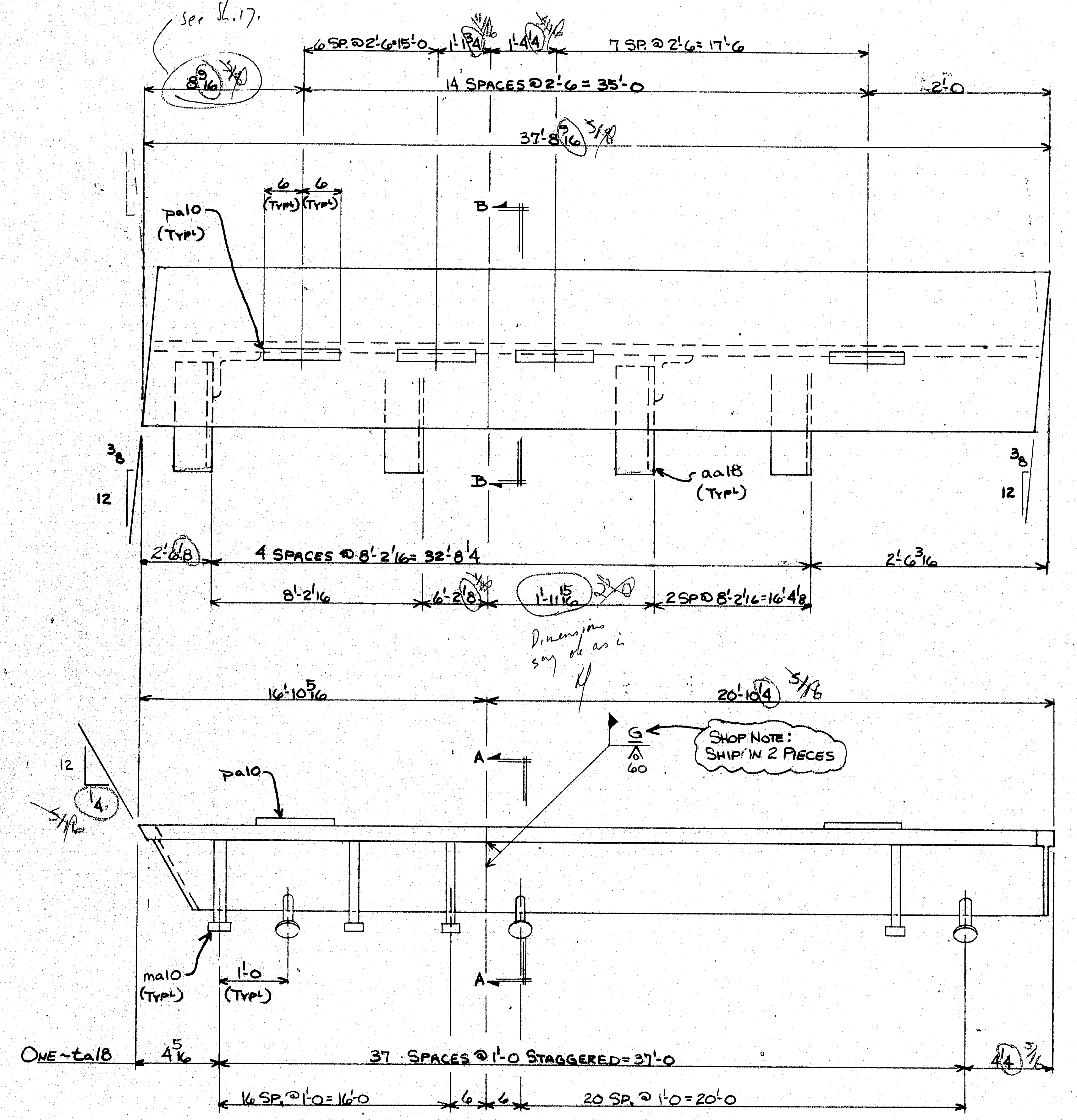
PRINT DISTRIBUTION
7P FA 3-23-89
7P,25 FA △A 5-16-89

MATERIAL A36
BOLTS A325
SURFACE PREP SSPC-SP6
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET SEC. 708.02 ME. D.O.T. STD. SPEC. (SEE PAINT NOTE)
4 MILS WET FILM EA. COAT
HOLES AS NOTED
ELECTRODE SEE WELD PROCEDURE
REF. DWG 5, 9 OF 20 & 16, 3B M-C1W

MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

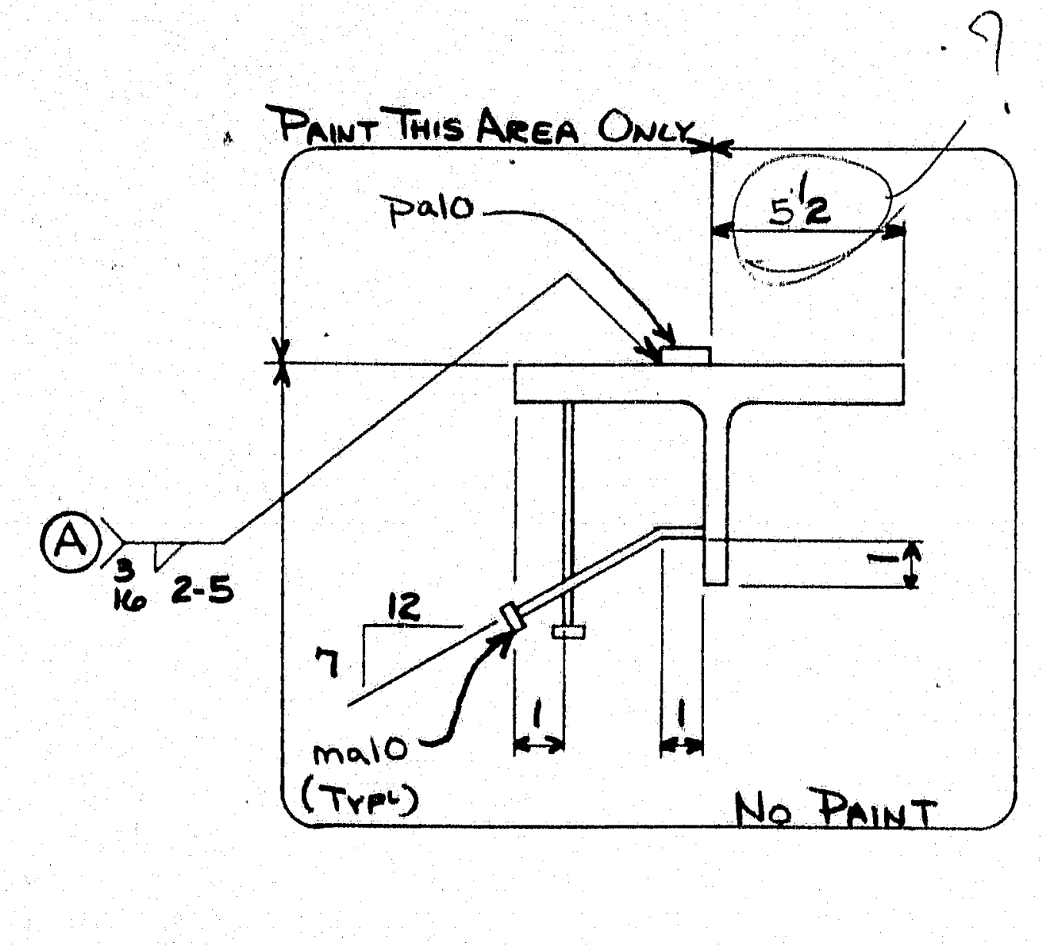
DESCRIPTION Compression Seal (Pier #1)
PROJECT Sandy River Bridge Proj. No. BH-025-2(46)
LOCATION New Sharon, Me.
DESIGNER Me. D.O.T.
CUSTOMER Callahan Bros., Inc.

REV △A DS 5-8-89
CHK'D SK 3/21/89
DRWN DS 2-23-89
JOB NO. 89-670-6
DWG NO. 17
REV. △A

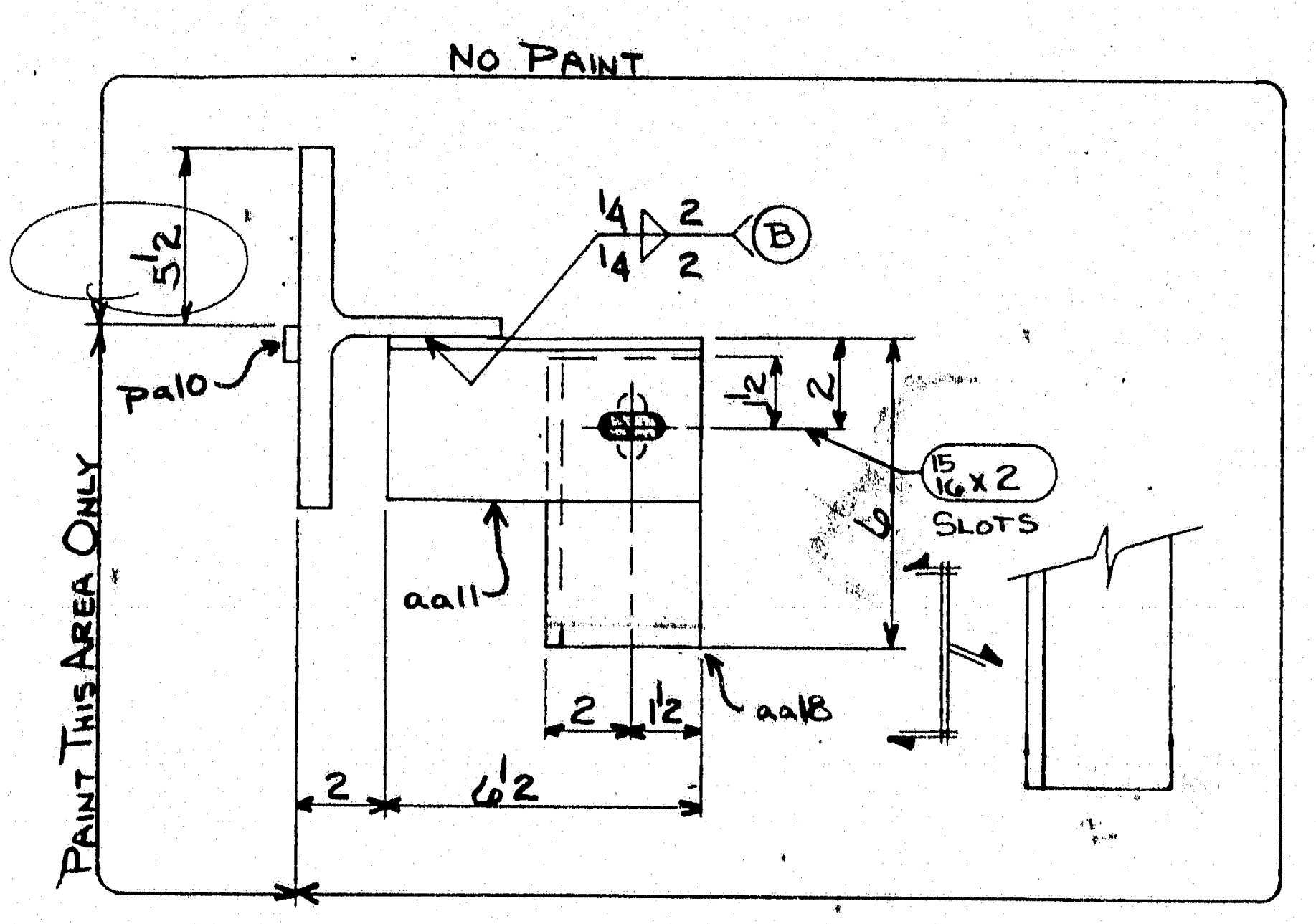


SHOP NOTE: SEE DWG. 16 FOR ASSEMBLY

PAINT NOTE:
1ST COAT - ORANGE
2ND COAT - MAROON
3RD COAT - GRAY



SECTION A-A



SECTION B-B

✓ LRT 6-19-89

101-163

MATERIAL SCHEDULE

SHIPPING MARK	NO PCS	SUB-ASSEM	SHAPE	LENGTH FT	LENGTH IN.	O OR S	CUT FROM NO	CUT FROM FT	CUT FROM IN	REMARKS		WT
ta18	1		WT 4 x 24	16	10 5/16					BIE & PREP 1 END		
tb18	1		⊥	20	10 1/4 5/16							
	15	pa10	BAR 1 x 3/8	1	0							
	38	ma10	1/2⌀ CONC. ANCH.	0	8 1/8					w/F.F.		
	5	aa11	∠3 1/2 x 3 1/2 x 3/8	0	6 1/2							
	5	ma11	7/8⌀ BOLT	0	2 1/4					w/N & 2W		
	5	aa18	∠3 1/2 x 3 1/2 x 3/8	0	5 1/2					BIE		

CALLAHAN BROS., INC.
Mechanic Falls, Me.
This material has been reviewed and found to be in conformance with plans and specifications prepared for this project.
By Timothy Morgan Date 5-18-89
[illegible] Paragraph [illegible] of The Specifications as to Limitations of this Approval and responsibility of the Contractor. In no case are Quantities Guaranteed. Approval is not to be construed as permitting omission of specified details necessary or specified but not specifically detailed or mentioned on the approved drawing.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 20 1989
☒ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

~ WELDING PROCEDURE ~

Ⓐ FC-12F-03P △A
SM-2F-01P

Ⓑ FC-2F-06P

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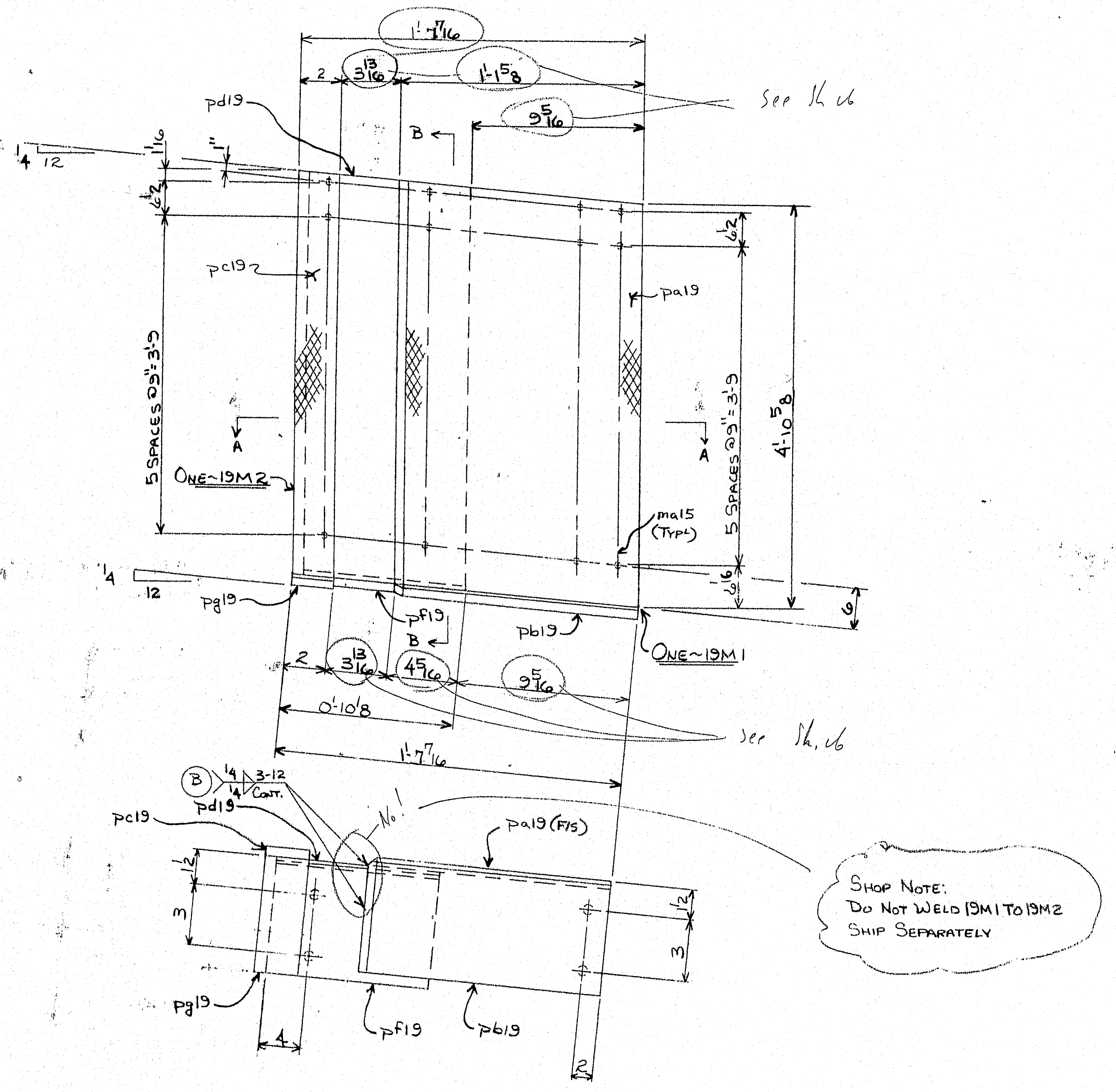
MATERIAL A36
HOLES AS NOTED
BOLTS A325
ELECTRODE SEE WELD PROCEDURE
SURFACE PREP SSPC-SP6
REF. DWG. 5, 9 OF 20 & M-C.I.W. 16, 17
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET SEC. 708.02 ME.D.O.T. STD. SPEC. (SEE PAINT NOTE)
4 MILS WET FILM EA. COAT

MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

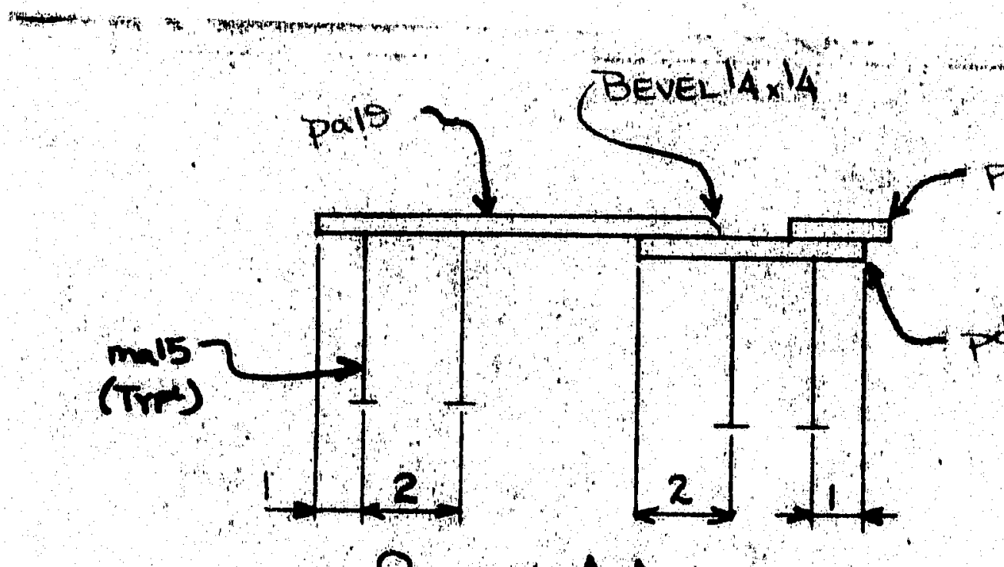
DESCRIPTION COMPRESSION SEAL (PIER #1)
PROJECT SANDY RIVER BRIDGE PROJ. NO. BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME.D.O.T.
CUSTOMER CALLAHAN BROS., INC.

REV △A DLS 5-8-89
CHK'D SW 3/21/89
DRWN. DLS 2-23-89
JOB NO. 89-670-6
DWG. NO. 18
REV. △A

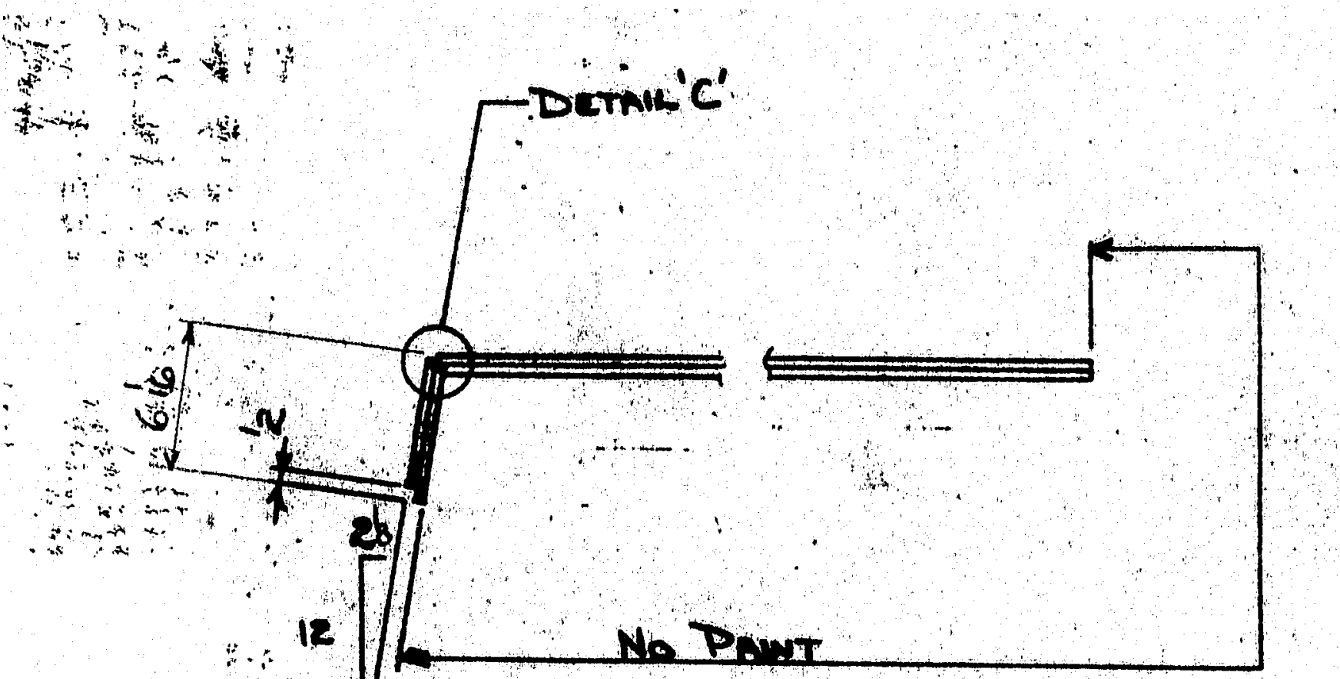


Shop Note:
Do Not Weld 19M1 To 19M2
Ship Separately

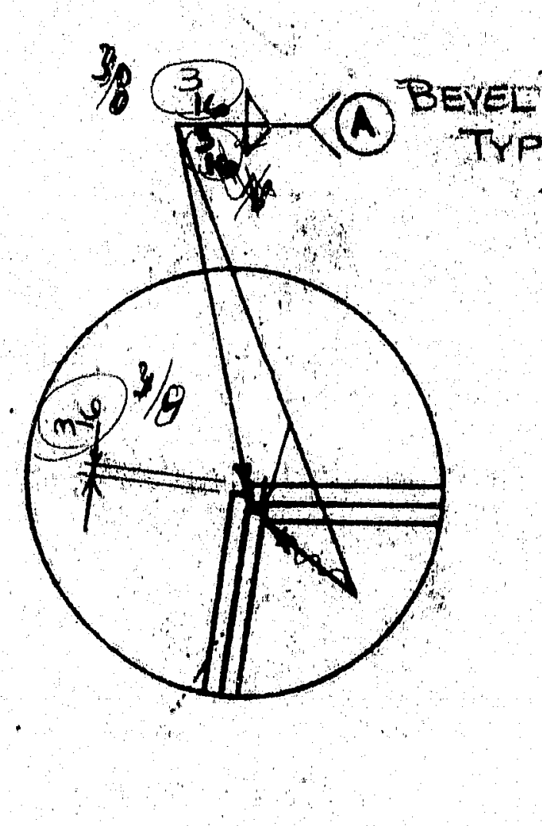
Expansion Dam @ Pier #1



Section A-A



Section B-B



Detail 'C'

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS	DASH	WT.
19M1	1		Expansion Dam	5	0±							
	1	pa19	Chk'd PL 3/8 x 13 5/8	4	10 15/16					B2E & Bevel 1 Edge		
	1	pb19	PL 3/8 x 5 3/8	1	1 5/8					⊥		
	16	ma15	1/2 Ø Conc. Anch.	0	8 1/8					w/F.F.		
19M2	1		Expansion Dam	5	0±							
	1	pc19	Chk'd PL 3/8 x 2	4	10 11/16					B2E		
	1	pd19	PL 3/8 x 9 5/8	4	10 1/2					⊥		
	1	pf19	PL 3/8 x 5 1/2	0	9 5/8							
	1	pg19	PL 3/8 x 5 11/16	0	2							
	16	ma15	C.A.									

CALLAHAN BROS., INC.
Mechanic Falls, Me.
This material has been reviewed and found to be in conformance with plans and specifications prepared for this project.
By Timothy J. Rom 5-18-89
See Paragraph "[illegible]" Special Conditions Of The Specifications for Limitations of this Approval and responsibility of the Contractor. In no case are Quantities Guaranteed. Approval is not to be construed as permitting omission of specified details necessary or specified but not specifically detailed or mentioned on the approved drawing.

~Welding Procedure~
Ⓐ SM-2F-01P
FC-12F-03P A
Ⓑ FC-2F-06P

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 20 1989
☒ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

FOR APPROVAL ONLY

Paint Note:
1st Coat ~ Orange
2nd Coat ~ Maroon
3rd Coat ~ Gray

REVISED

Pay Item #520.2202

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REVIEWED BY AH 6/20/89

WEIGHED BY. CHK'D BY TOTAL WEIGHT

WARNING
WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PRINT DISTRIBUTION	
FA	3-23-89
FA A	5-16-89

7P
7P, 25

MATERIAL A36
BOLTS ——
SURFACE PREP SSPC-SP6
HOLES ——
ELECTRODE See Weld Procedure
REF. DWG. 5, 9 of 20
PRIMER 3 Coats of Basic Lead Silico Chromate Paint To
FINISH Meet 708.02 Me.D.O.T. Std. Spec. (See Paint Note)
4 Mils Wet Film Ea. Coat

MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

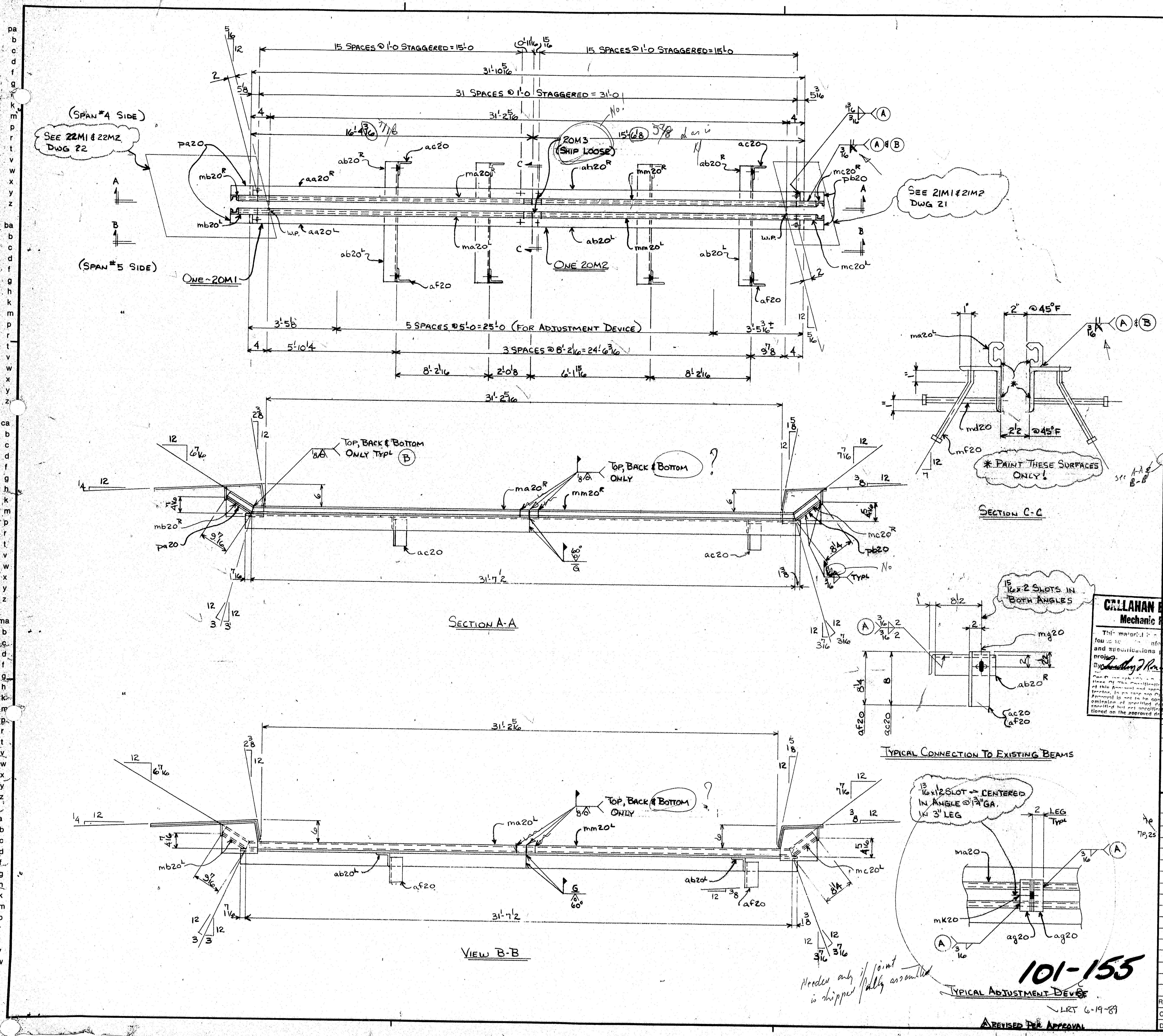
DESCRIPTION Expansion Dam @ Pier #1
PROJECT Sandy River Bridge Proj. No. BH-025-2(46)
LOCATION New Sharon, Me.
DESIGNER Me.D.O.T.
CUSTOMER Callahan Bros., Inc.

REV A DLS 5-8-89
CHK'D 3/23/89
DRWN DLS 2-27-89
JOB NO. 89-670-6
DWG. NO. 19
REV. A

LRT 6-19-89

101-154

REV A REVISED PER APPROVAL


15 SPACES @ 1'-0 STAGGERED = 15'-0
15 SPACES @ 1'-0 STAGGERED = 15'-0
31 SPACES @ 1'-0 STAGGERED = 31'-0
31'-10 5/16
31'-2 5/16
(SPAN #4 SIDE)
(SPAN #5 SIDE)
SEE 22M1 & 22M2 DWG 22
SEE 21M1 & 21M2 DWG 21
20M3 (SHIP LOOSE)
ONE-20M1
ONE 20M2
5 SPACES @ 5'-0 = 25'-0 (FOR ADJUSTMENT DEVICE)
3 SPACES @ 8'-2 1/16 = 24'-6 3/16
SECTION A-A
TOP, BACK & BOTTOM ONLY TYP
VIEW B-B
SECTION C-C
* PAINT THESE SURFACES ONLY!
TYPICAL CONNECTION TO EXISTING BEAMS
13/16 x 2 SLOTS IN BOTH ANGLES
TYPICAL ADJUSTMENT DEVICE
13/16 x 1 1/2 SLOT – CENTERED IN ANGLE @ 1 1/4 GA. IN 3" LEG

Needed only if joint is shipped fully assembled

LRT 6-19-89

REVISED PER APPROVAL

101-155

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS	WT.
20M1	1		EXPANSION JOINT	16	4 3/16	9 7/16					
	2	aa20 R/L	∠4x4x3/8	16	4 3/16	4 7/16				PREP. 1 END	
	4	ab20 R/L	∠3 1/2x3 1/2x3/8	0	10 1/2					2R, 2L	
	2	ac20	⊥	0	8 1/8						
	2	af20	⊥	0	8 3/8					BIE	
	6	ag20	∠3x2x3/16	0	6 1/2						
	2	ma20 R/L	TYPE AM2 EXTRUSION	15	8 3/4					BIE, PREP 1 END, ONFLEX	
	2	mb20 R/L	⊥	0	9 7/16					BIE 1R, 1L ⊥	
	32	md20	1/2 ⌀ CONC. ANCH.	0	8 1/8					W/F.F	
	32	mf20	⊥	0	8 1/8					⊥ BENT	
	4	mg20	7/8 ⌀ BOLT	0	2 1/4					W/N & 2W	
	3	mk20	3/4 ⌀ BOLT	0	1 3/4					W/N & 2W (A307)	
	2	pa20	BAR 4x3/8	0	9 7/16	?					
20M2	1		EXPANSION JOINT	15	6 1/8	5/8					
	2	ah20 R/L	∠4x4x3/8	15	6 1/8	5/8				PREP 1 END	
	4	ab20 R/L	⊥							2R, 2L	
	2	ac20	⊥								
	2	af20	⊥								
	6	ag20	⊥								
	2	mm20	TYPE AM2 EXTRUSION	14	10 3/4	10				BIE, PREP 1 END, ONFLEX	
	2	mc20 R/L	⊥	0	8 1/4					BIE	
	32	md20	C.A.								
	32	mf20	C.A.								
	4	mg20	BOLT								
	3	mk20	BOLT								
	2	pb20	BAR 4x3/8	0	7 3/8						
20M3	2		TYPE AM2 EXTRUSION	1	0					ONFLEX	
20M4	1		40SEQ GLAND SEAL	34	3					⊥ W/LUBRICANT	
			~ WELD PROCEDURE ~								
	Ⓐ		FC-2F-03P △A SM-2F-01P								
	Ⓑ		FC-1G-08								

see A-A & B-B

WEIGHED BY. CHK'D BY TOTAL WEIGHT

PAY ITEM #520.21

WORK WITH DWG 21 & 22

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 20 1989
☒ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

FOR APPROVAL ONLY

REVISED

OFFICE COPY AN
RECEIVED MAY 31 1989
CHECKED BY
REVIEWED BY 6/20/89

CALLAHAN BROS., INC.
Mechanic Falls, Me.
This material has been reviewed and found to [illegible] conformance with plans and specifications prepared for this project.
By [illegible] Date 5-18-89
[illegible] Of The Specifications [illegible] Special Conditions of this Approval and responsibility of the Contractor. In no case are Quantities Guaranteed. Approval is not to be construed as permitting omission of specified details necessary or specified but not specifically detailed or mentioned on the approved drawing.

WARNING

WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PRINT DISTRIBUTION	
FA	3-23-89
FA △A	5-16-89

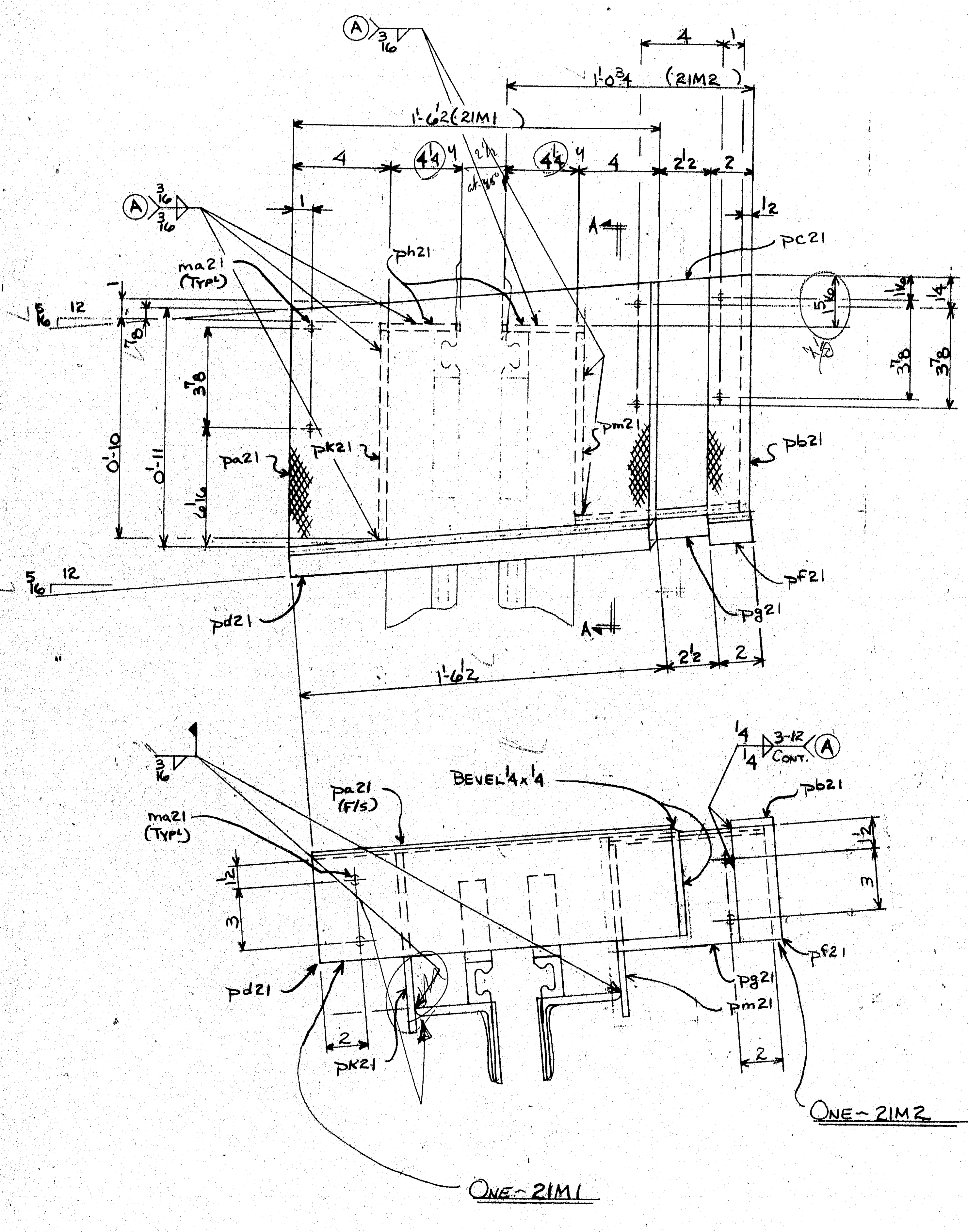
7P, 25

MATERIAL A36
HOLES AS NOTED
BOLTS A325 UNO
ELECTRODE SEE WELD PROCEDURE
SURFACE PREP SSPC-SP6
REF. DWG. 8, 9 OF 20
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET ME.D.O.T SEC. 708.02 STD. SPEC.
4 MILS WET FILM EA. COAT ~ ORANGE

MAINE-CASCADE IRON WORKS
BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

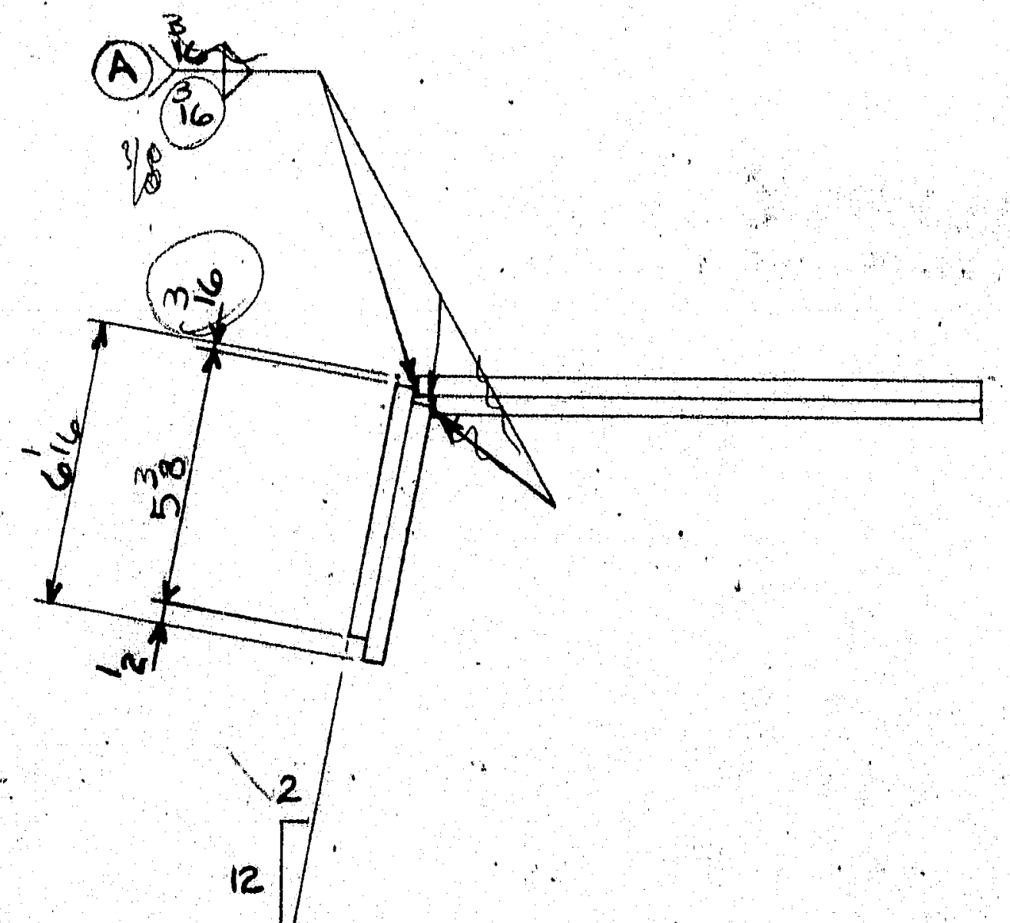
DESCRIPTION GLAND SEAL @ PIER #4
PROJECT SANDY RIVER BRIDGE PROJ. NO. BH-025-2(46)
LOCATION NEW SHARON, ME
DESIGNER ME.D.O.T.
CUSTOMER CALLAHAN BROS., INC.

REV. △A DLS 5-9-89
CHK'D SWS 3/23/89
DRWN. DLS 3-17-89
JOB NO. 89-670-4
DWG. NO. 20
REV. △A

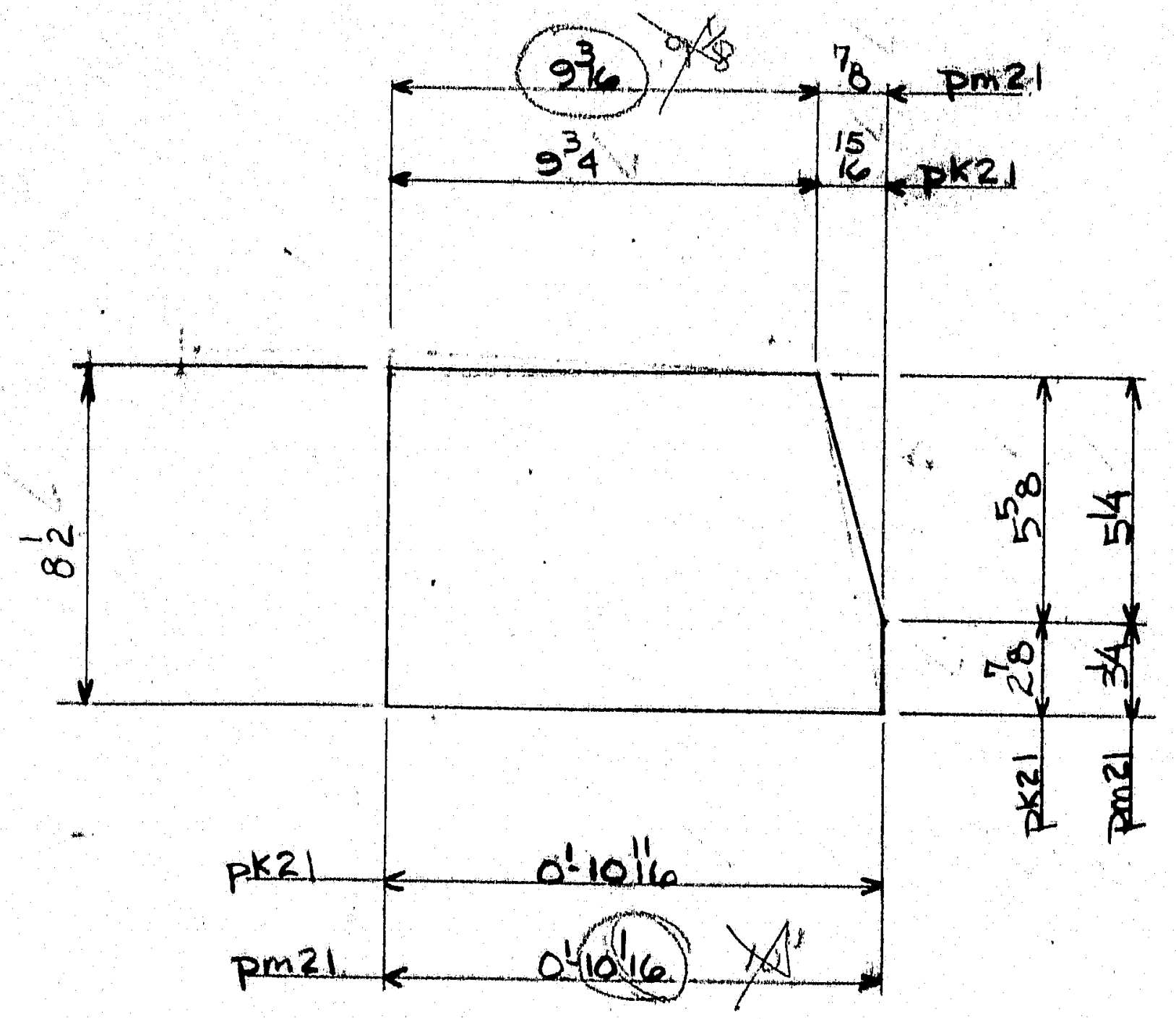


DO NOT WELD
21M1 TO 21M2.

Bevel 3/8 x 3/8

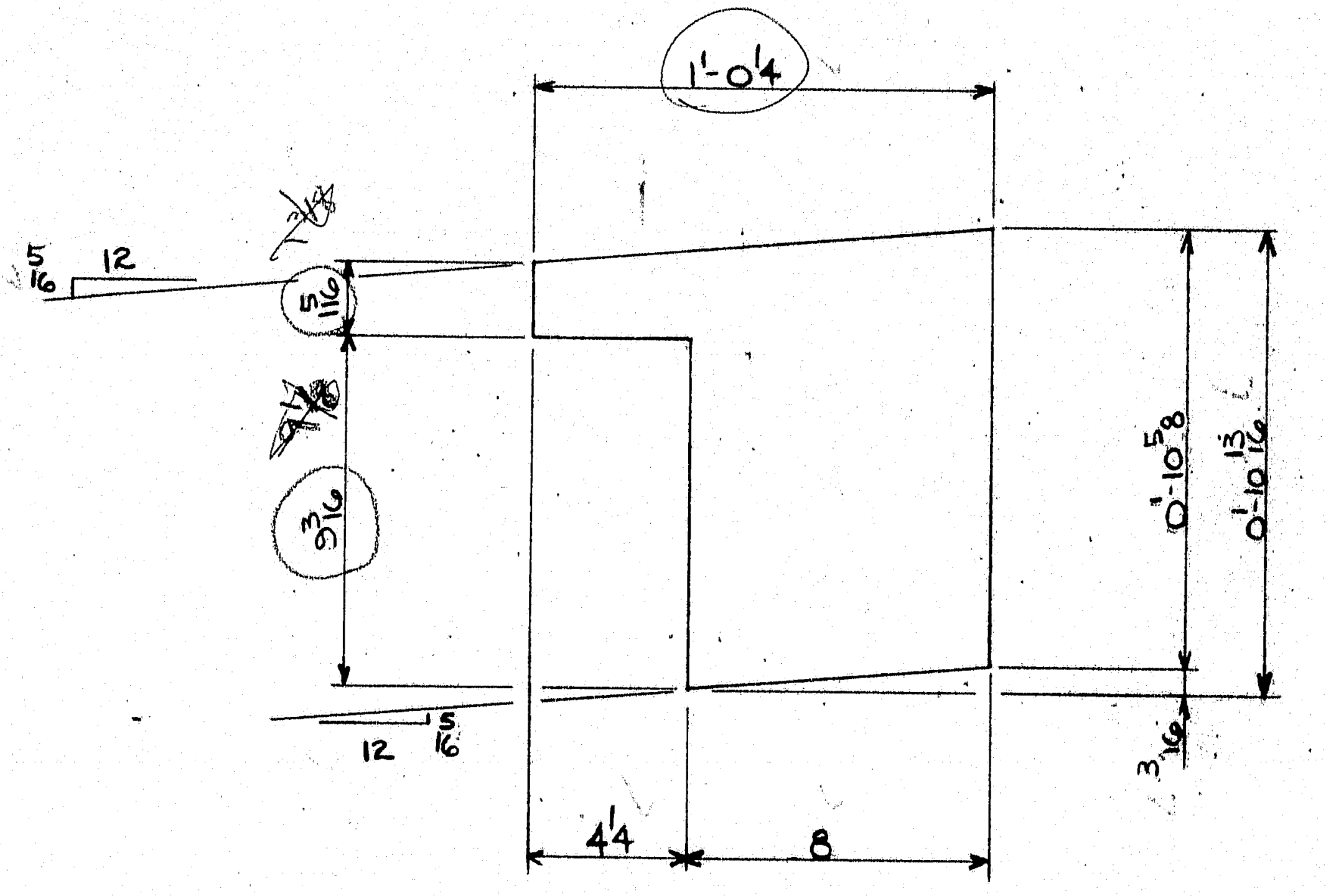


SECTION A-A



DETAIL OF pk21 (AS NOTED)

DETAIL OF pm21 (AS NOTED)



DETAIL OF pc21

101-156

VLRT 6-19-89

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS		WT.
21M1	1		EXPANSION DAM	②	0±							
	1	pa21	CHKD PL 3/8 x 11 7/16 ~~1/2~~	1	6 1/2					B2E & BEVEL 1 EDGE		
	1	pd21	PL 3/8 x 5 3/8	1	6 1/2							
	1	ph21	PL 1/4 x 3 1/2	0	4 1/2							
	1	pk21	PL 1/4 x 8 1/2	0	10 11/16					SHAPE		
	4	ma21	1/2 ⌀ CONC. ANCH.	0	8 1/8					w/F.F.		
21M2	1		EXPANSION DAM	②	0±							
	1	pb21	CHK'D PL 3/8 x 2	0	11 1/16					B2E		
	1	pc21	PL 3/8 x 10 13/16	1	0 1/4					⊥ & SHAPE		
	1	pf21	PL 3/8 x 2	0	5 11/16							
	1	pg21	PL 3/8 x 5 7/16 ~~1/2~~	0	8							
	~~1~~	~~ph21~~	~~PL~~									
	1	pm21	PL 1/4 x 8 1/2	0	10 1/16 ~~10~~					SHAPE		
	6	ma21	C/A.									

~ WELDING PROCEDURE ~

Ⓐ FC-2F-03P ⚠1

SM-2F-01P

CALLAHAN BROS., INC.
Mechanic Falls, Me.

This material has been reviewed and found to be in conformance with plans and specifications prepared for this project.

5-18-89

See Paragraph "Shop Drawings" of the Specifications as to limitations of this Approval and responsibility of the Contractor. In no case are Quantities guaranteed. Approval is not to be construed as permitting omission of specified details necessary or which are not specifically detailed or mentioned on the approved drawing.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 20 1989
☒ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

FOR APPROVAL ONLY

WORK WITH M-CIW DWG 20822

PAY ITEM #520.21

REVISED

OFFICE COPY
RECEIVED MAY 31 1989
CHECKED BY
REVIEWED BY 6/20/89

Ⓐ REVISED PER APPROVAL

WEIGHED BY. CHK'D BY TOTAL WEIGHT

WARNING

WELDING AND CUTTING ON THIS MATERIAL CAN PRODUCE FUMES AND GASES DANGEROUS TO YOUR EYES AND TO YOUR RESPIRATORY SYSTEM THROUGH INHALATION. CONSULT APPROPRIATE MATERIAL SAFETY DATA SHEETS FOR MORE INFORMATION.

PRINT DISTRIBUTION	
TR FA	3-23-89
TP, 25 FA Ⓐ	5-16-89

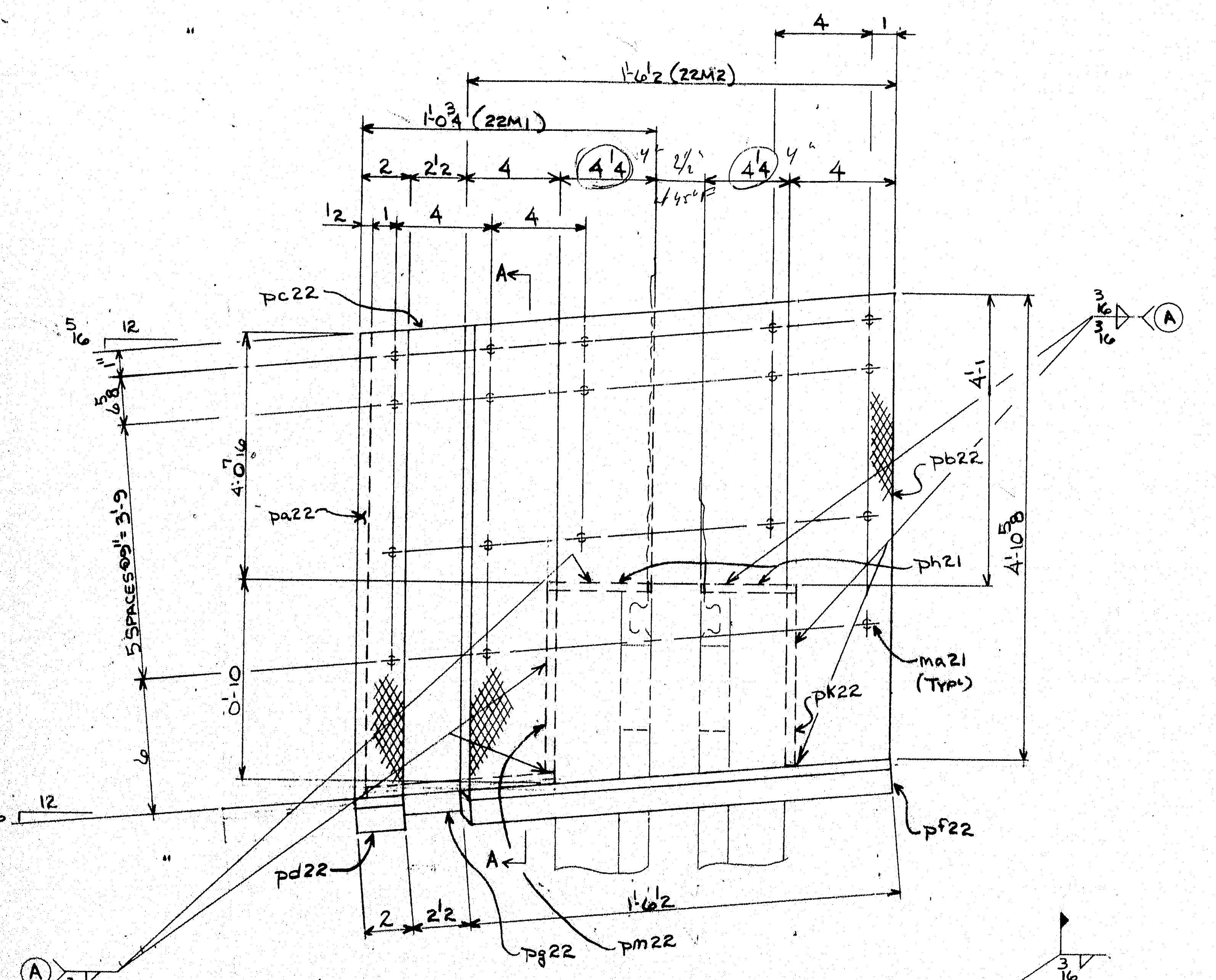
MATERIAL A36
BOLTS ——
SURFACE PREP SSPC-SP6
HOLES ——
ELECTRODE SEE WELD PROCEDURE
REF. DWG. 8, 9 OF 20
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET ME. D.O.T. SEC. 708.02 STD. SPEC.
4 MILS WET FILM EA. COAT ~ ORANGE

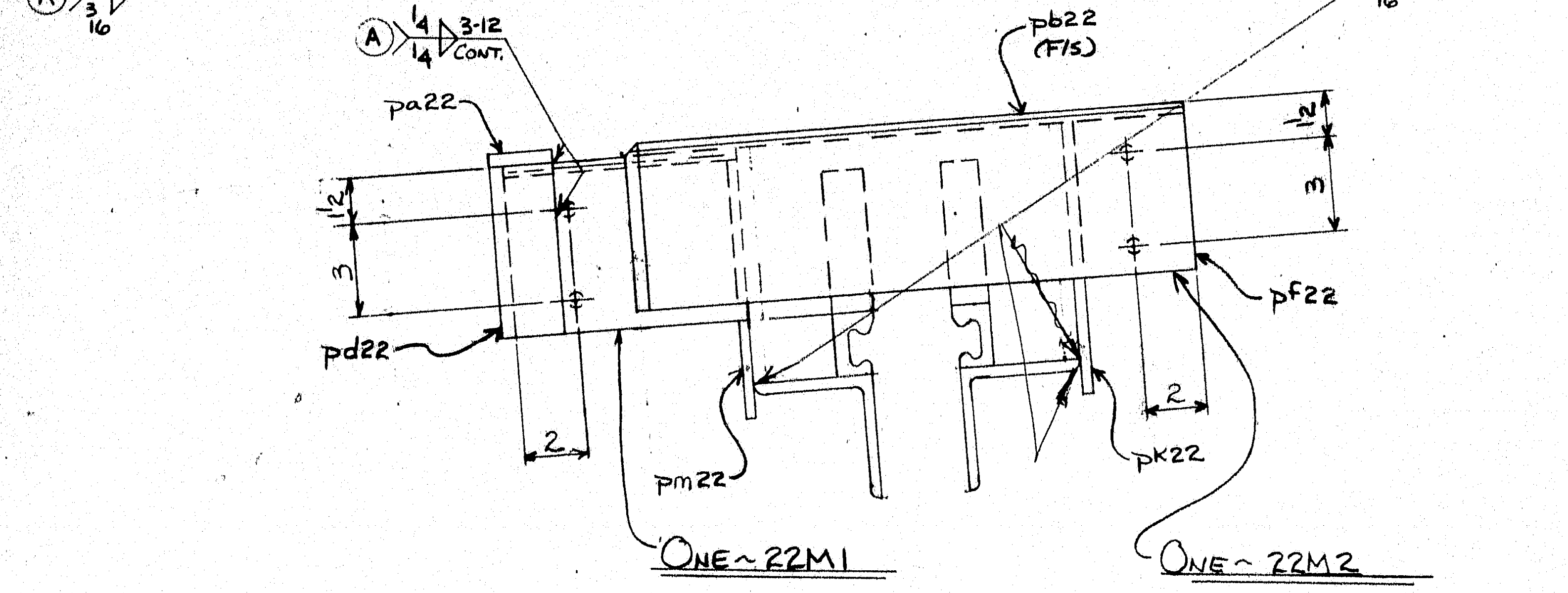
MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

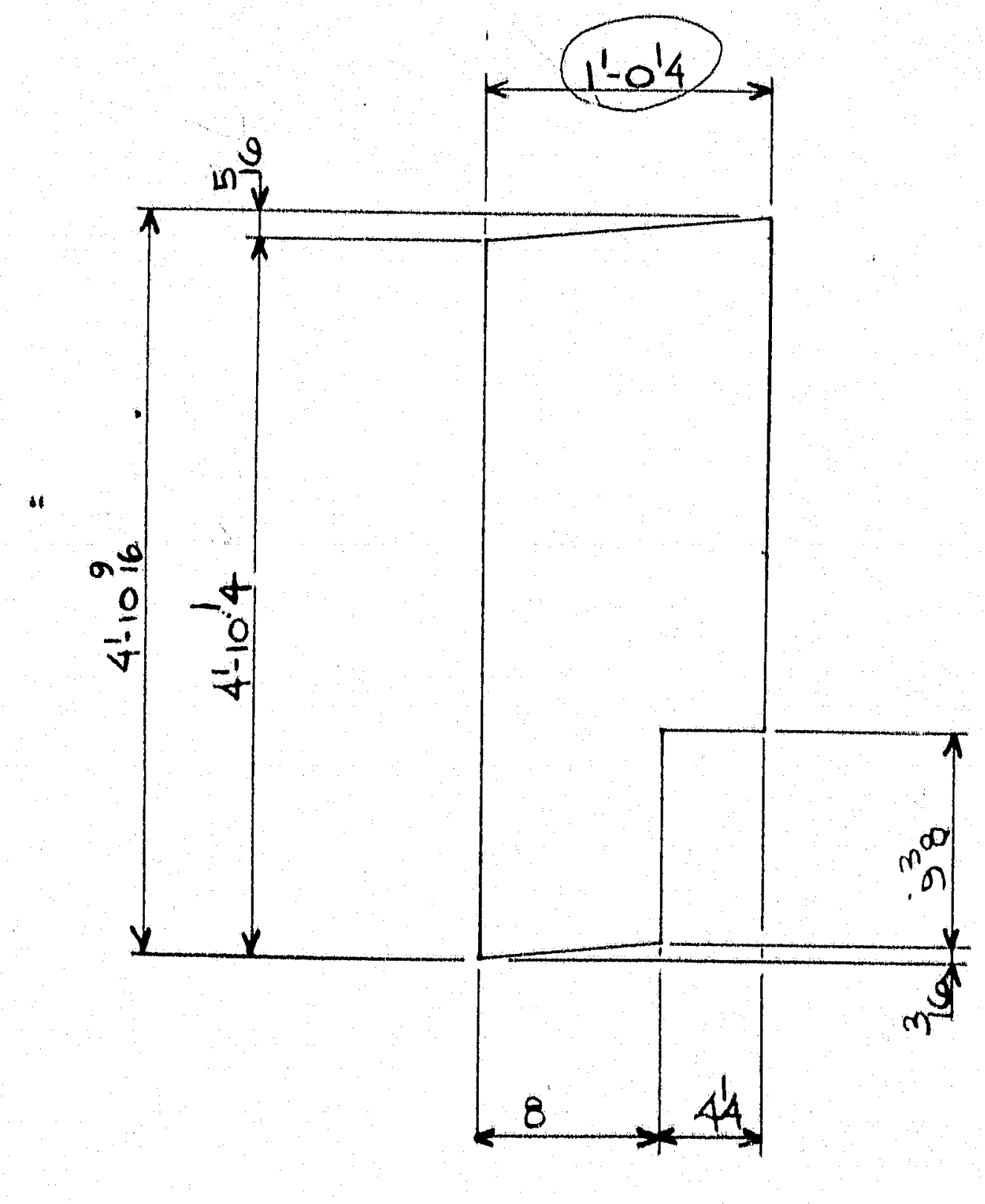
DESCRIPTION EXPANSION DAM DETAIL
PROJECT SANDY RIVER BRIDGE PROJ. NO. BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.

REV. Ⓐ DLS SES 5-9-89
CHK'D SES 3/23/89
DRWN DLS 3-18-89
JOB NO. 89-670-4
DWG. NO. 21
REV. Ⓐ

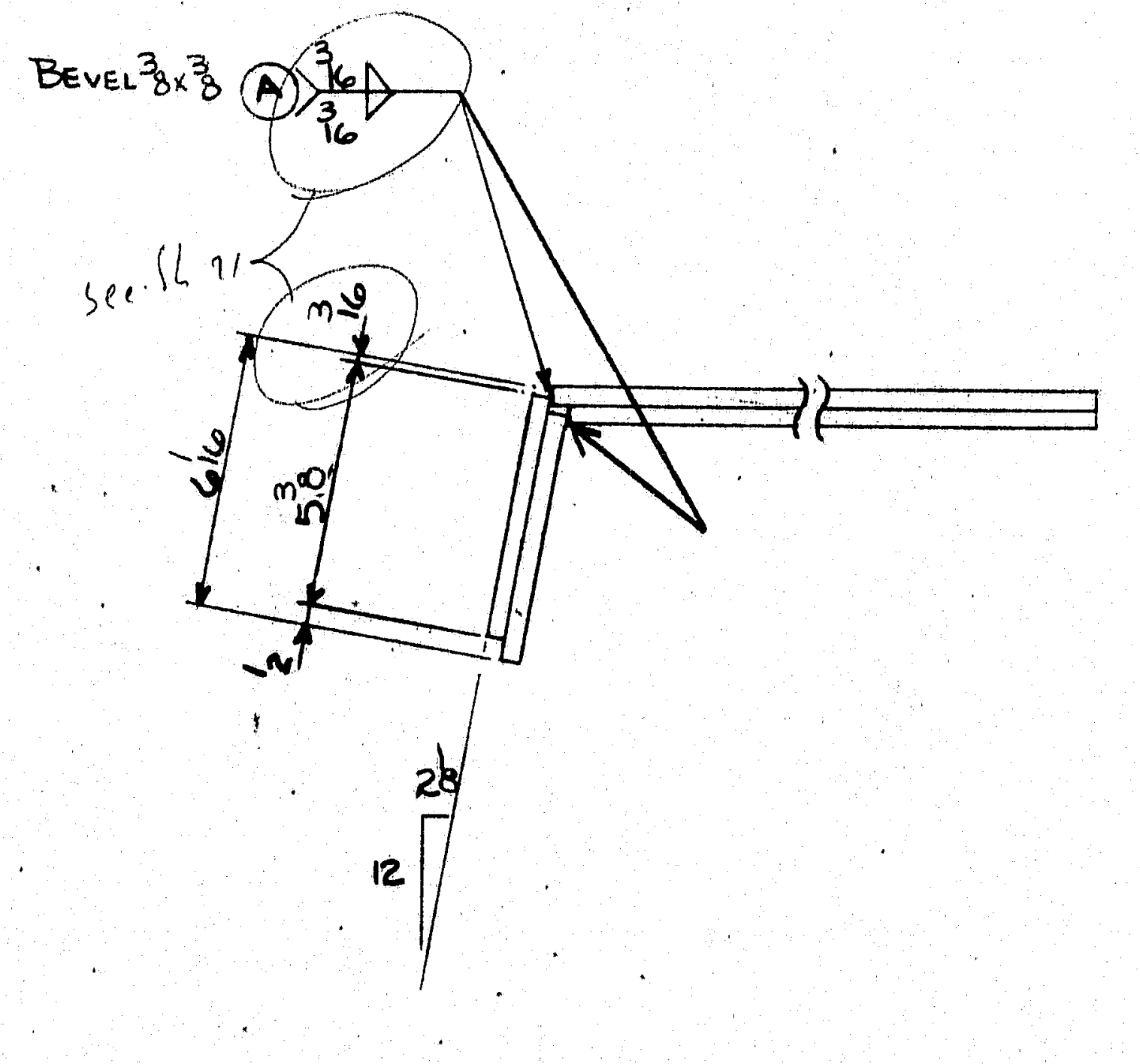




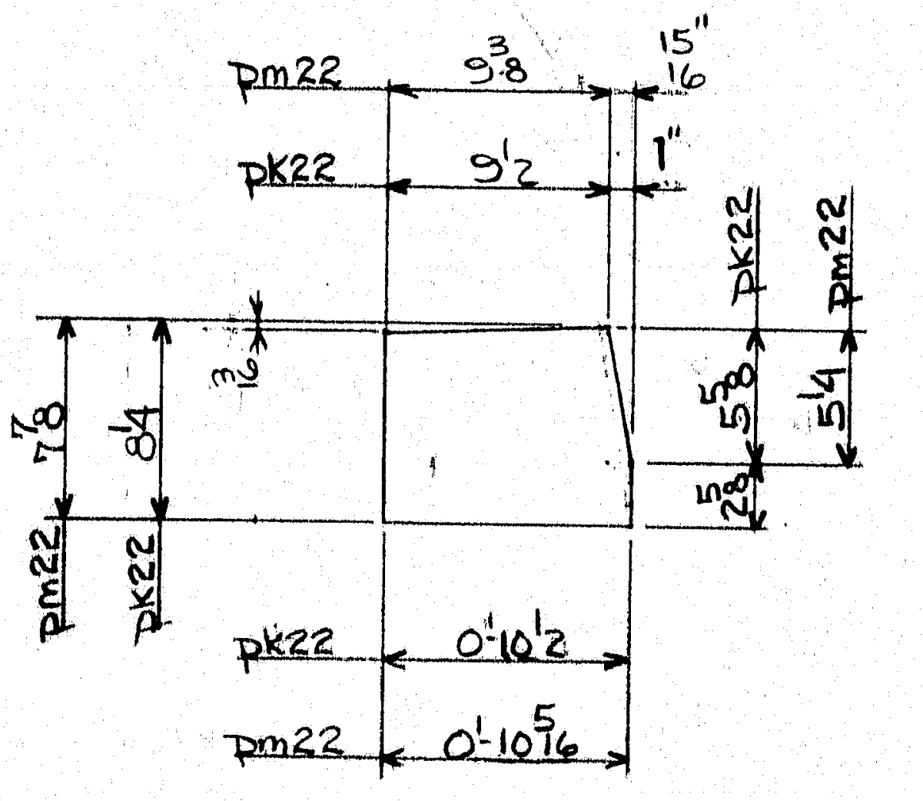
SHOP NOTE:
DO NOT WELD 22M1
TO 22M2.



DETAIL OF pc22



SECTION A-A



DETAIL OF pk22

DETAIL OF pm22

101-157

VLRT 6-19-89

MATERIAL SCHEDULE

SHIPPING MARK	NO. PCS.	SUB-ASSEM.	SHAPE	LENGTH FT.	LENGTH IN.	O OR S	CUT FROM NO.	CUT FROM FT.	CUT FROM IN.	REMARKS		WT.
22M1	1		EXPANSION DAM	5	0 ±							
	1	pa22	CHK° PL 3/8 x 2	4	10 11/16					B2E		
	1	pc22	PL 3/8 x 12 1/4	4	10 9/16					⊥ SHAPE		
	1	pd22	PL 3/8 x 5 3/16 ~~11/16~~	0	2					BIE		
	1	pg22	PL 3/8 x 5 7/16 ~~1/2~~	0	8							
	1	ph21	PL 1/4 x 3 1/2	0	4 1/2							
?	1	pm22	PL 1/4 x 7 7/8	0	10 5/16					SHAPE		
	~~24~~ 28	ma21	1/2 ⌀ CONC. ANCH.	0	8 1/8					W/F.F.		
22M2	1		EXPANSION DAM	5	0 ±							
	4	pb22	CHK° PL 3/8 x 18 1/2	4	11 1/16	~~11 1/2~~				B2E & BEVEL 1 EDGE		
	1	pf22	PL 3/8 x 5 3/8	1	6 1/2					BIE		
	1	ph22	PL 1/4 x 3 1/2	0	4 1/2							
?	1	pk22	PL 1/4 x 8 1/4	0	10 1/2					SHAPE		
	~~18~~ 9	ma21	C.A.									

~ WELDING PROCEDURE ~

(A) FC-2F-03P (A)
SM-2F-01P

CALLAHAN BROS., INC.
Mechanic Falls, Me.

This material has been reviewed and found to be in conformance with plans and specifications prepared for this project.
By Timothy J Rowe 5-18-89
See Paragraph "Shop Drawings" Special Conditions Of The Specifications as to Limitations of this Approval and responsibility of the Contractor. In no case are Quantities Guaranteed. Approval is not to be construed as permitting omission of specified details necessary or specified but not specifically detailed or mentioned on the approved drawing.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 20 1989
☒ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

WORK WITH M-CIW DWG 20 & 21

FOR APPROVAL ONLY

REVISED

PAY ITEM # 520.21

OFFICE COPY
RECEIVED MAY 31 1989
CHECKED BY
REVIEWED BY 6/20/89
TOTAL WEIGHT

(A) REVISED PER APPROVAL

WEIGHED BY. CHK'D BY

WARNING

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PRINT DISTRIBUTION	
FA	3-23-89
FA (A)	5-16-89

TP
TP, 25

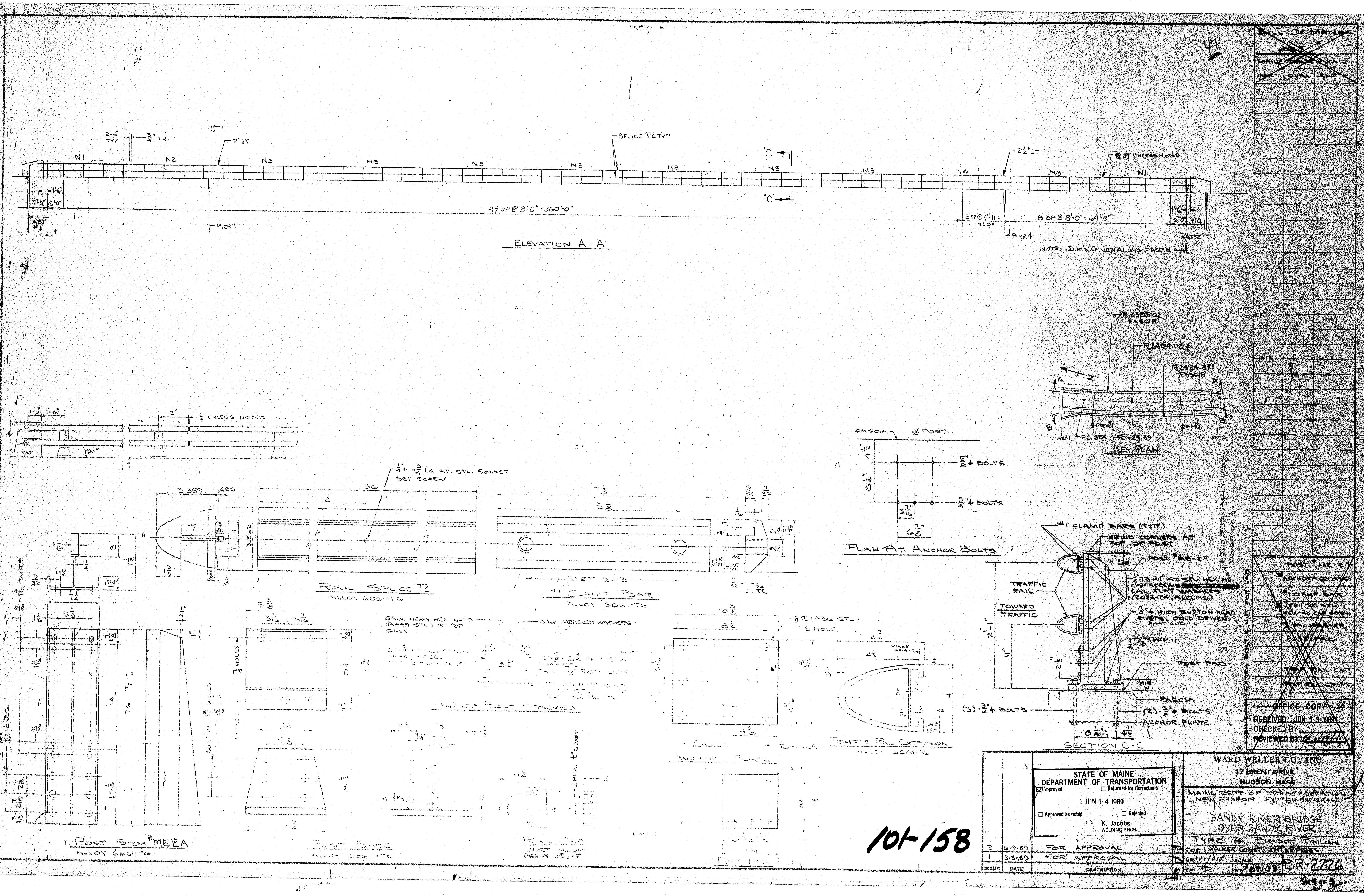
MATERIAL A36
BOLTS
HOLES
ELECTRODE SEE WELD PROCEDURE
SURFACE PREP SSPC - SP6
REF. DWG. 8, 9 OF 20
PRIMER 3 COATS OF BASIC LEAD SILICO CHROMATE PAINT TO
FINISH MEET ME. D.O.T SEC. 708.02 STD. SPEC.
4 MILS WET FILM EA. COAT ~ ORANGE

MAINE-CASCADE IRON WORKS

BAKER STREET, CLINTON, MAINE 04927
PHONE 207-426-2671

DESCRIPTION EXPANSION DAM DETAIL
PROJECT SANDY RIVER BRIDGE PROJ. NO. BH-025-2(46)
LOCATION NEW SHARON, ME.
DESIGNER ME. D.O.T.
CUSTOMER CALLAHAN BROS., INC.

REV. (A) DLS 5-9-89
CHK'D 3/23/89
DRWN DLS 3-21-89
JOB NO. 89-670-4
DWG. NO. 22
REV. (A)



~~BILL OF MATERIAL~~

~~POST # ME-2A~~

~~* ANCHORAGE ASSY~~

~~#1 CLAMP BAR~~

~~HEX HD CAP SCREW~~

~~FLAT WASHER~~

~~POST PAD~~

~~TRAFFIC RAIL CAP~~

~~TRAFFIC RAIL SPLICE~~

OFFICE COPY (A)
RECEIVED JUN 1 3 1989
CHECKED BY
REVIEWED BY

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☒ Approved ☐ Returned for Corrections
JUN 1 4 1989
☐ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

101-158

ISSUE	DATE	DESCRIPTION
2	6-9-89	FOR APPROVAL
1	3-3-89	FOR APPROVAL

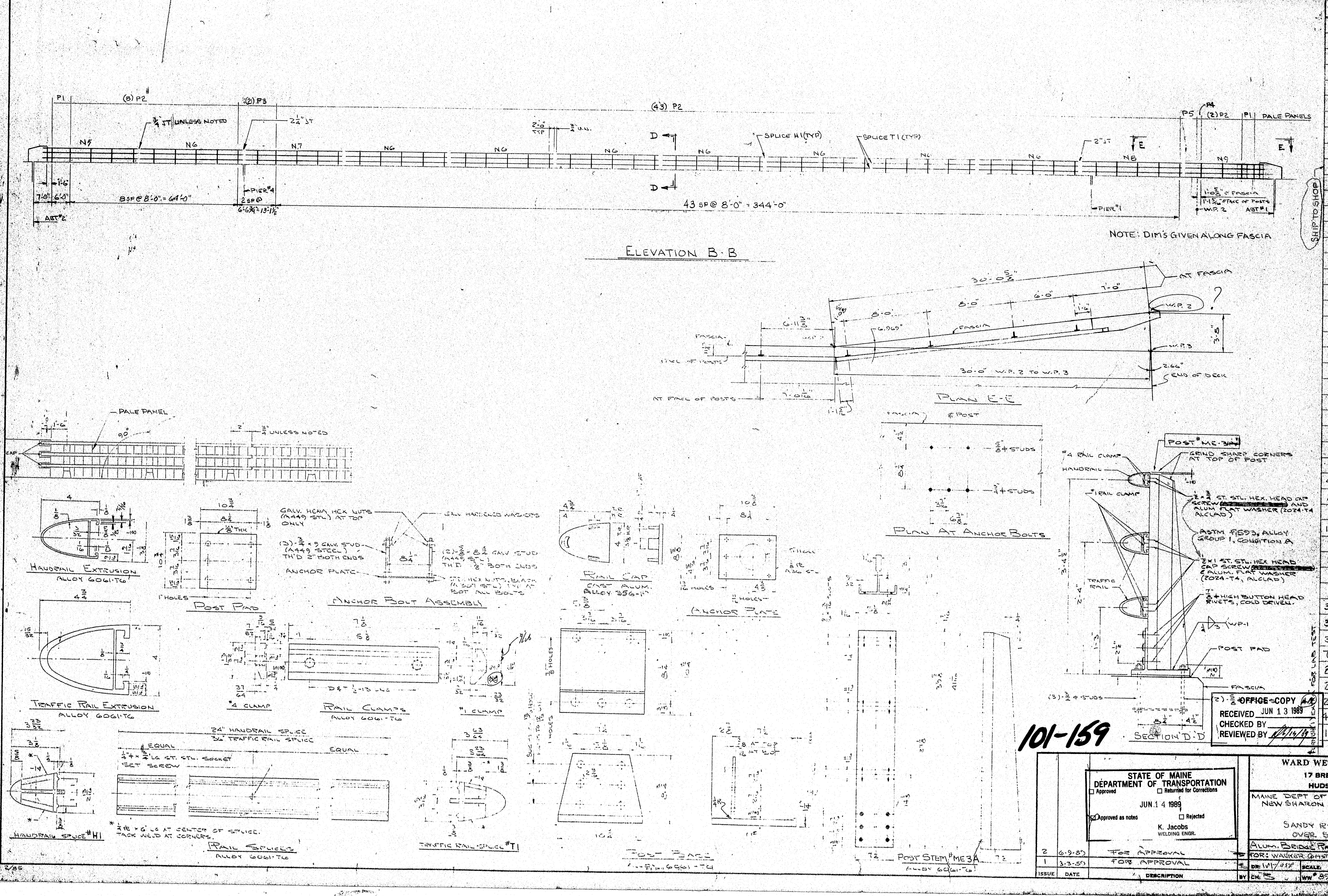
WARD WELLER CO., INC.
17 BRENT DRIVE
HUDSON, MASS.

MAINE DEPT OF TRANSPORTATION
NEW SHARON FAP #BH-025-2(4)

SANDY RIVER BRIDGE
OVER SANDY RIVER

TYPE 'A' BRIDGE RAILING
FOR: WALKER CONST. ENTERPRISES

SCALE
WO #89103
BR-2226
SHT 1 OF 3



101-159

JOB # 89103			
MK	HAND RAIL	TRAF. RAIL	LENGTH
N1	—	4	34-6
N2	—	2	35-9 3/8
N3	—	16	39-11 1/2
N4	—	2	33-8 7/8
N5	1	2	34'-5 1/2
N6	8	16	39-11 1/4
N7	1	2	36-11 1/8
N8	1	2	39-10
N9*	1	2	32-0

SHIP TO SHOP

22	SPLICE #T2
59	POST #ME-2
130	POST PAD
59	POST #ME-3A
118	#4 RAIL CLAMP
472	#1 RAIL CLAMP
236	1/2 × 3/4 ST. STL. HEX HEAD CAP SCREW
944	1/2 × 1 ST. STL. HEX HEAD CAP SCREW
1180	1/2 ALUM. WASHER
11	SPLICE #H1
22	SPLICE #T1
2	HANDRAIL CAP
8	TRAF. RAIL CAP
354▲	3/4 × 9 GALV. STUD
354	3/4 GALV. WASHER
354▲	3/4 GALV. NUT
708	3/4 BLACK NUT
236▲	5/8 × 8 3/4 GALV. STUD
236	5/8 GALV. WASHER
236▲	5/8 GALV. NUT
472	5/8 BLACK NUT
118	ANCHOR PLATE

▲ FURNISH (1) EXTRA FOR LAB TEST

OFFICE COPY
RECEIVED JUN 13 1989
CHECKED BY
REVIEWED BY 6/14/89

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 14 1989
☑ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

ISSUE	DATE	DESCRIPTION	BY
2	6-9-89	FOR APPROVAL	
1	3-3-89	FOR APPROVAL	

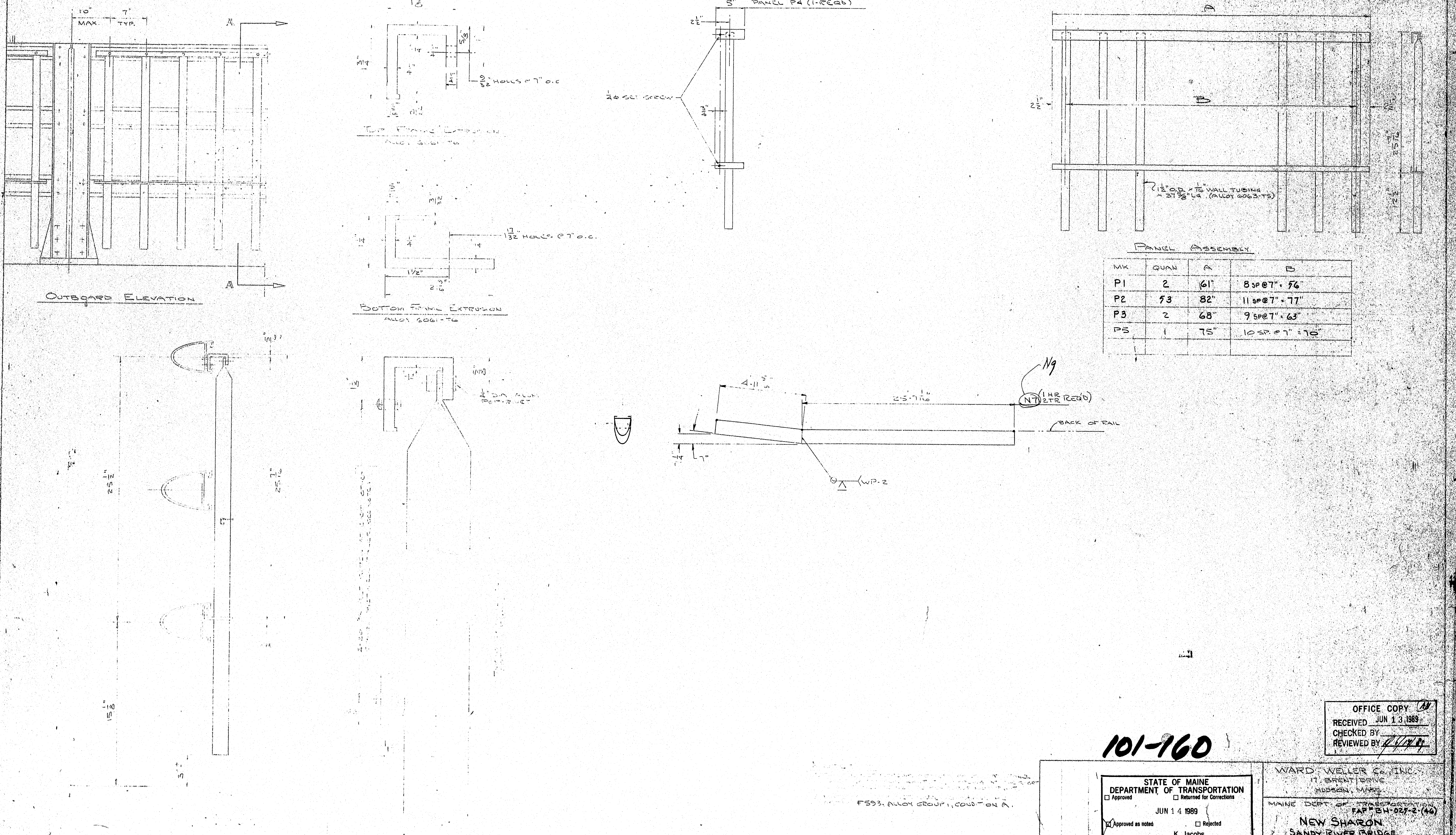
WARD WELLER CO., INC.
17 BRENT DRIVE
HUDSON, MASS.

MAINE DEPT OF TRANSPORTATION
NEW SHARON FAP # BH-025-2-(46)

SANDY RIVER BRIDGE
OVER SANDY RIVER

ALUM. BRIDGE RAILING (3-RAIL)
FOR: WALKER CONSTRUCTION ENTERPRISES

DR: MJ 1/45?
CH: B
SCALE:
WW # 89103
BR-2226
SHEET 2 OF 3



PANEL ASSEMBLY

MK	QUAN	A	B
P1	2	61"	8 SP @ 7" = 56"
P2	53	82"	11 SP @ 7" = 77"
P3	2	68"	9 SP @ 7" = 63"
P5	1	75"	10 SP. @ 7" = 70"

OFFICE COPY
RECEIVED JUN 13 1989
CHECKED BY
REVIEWED BY

101-160

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
☐ Approved ☐ Returned for Corrections
JUN 14 1989
☒ Approved as noted ☐ Rejected
K. Jacobs
WELDING ENGR.

WARD WELLER Co., INC.
17 BRENT DRIVE
HUDSON, MASS.

MAINE DEPT. OF TRANSPORTATION
FAP # BH-025-2 (46)
NEW SHARON
SANDY RIVER BRIDGE
OVER SANDY RIVER

ALUMINUM PALE PANELS

CUSTOMER: WALKER CONST. ENTERPRISES

ISSUE	DATE	DESCRIPTION	BY
2	6-9-89	FOR APPROVAL	B
1	3-3-89	FOR APPROVAL	B

DR. OJL
CHK. B
W.W. 89/03
BR 2226
SHEET 3 OF 3