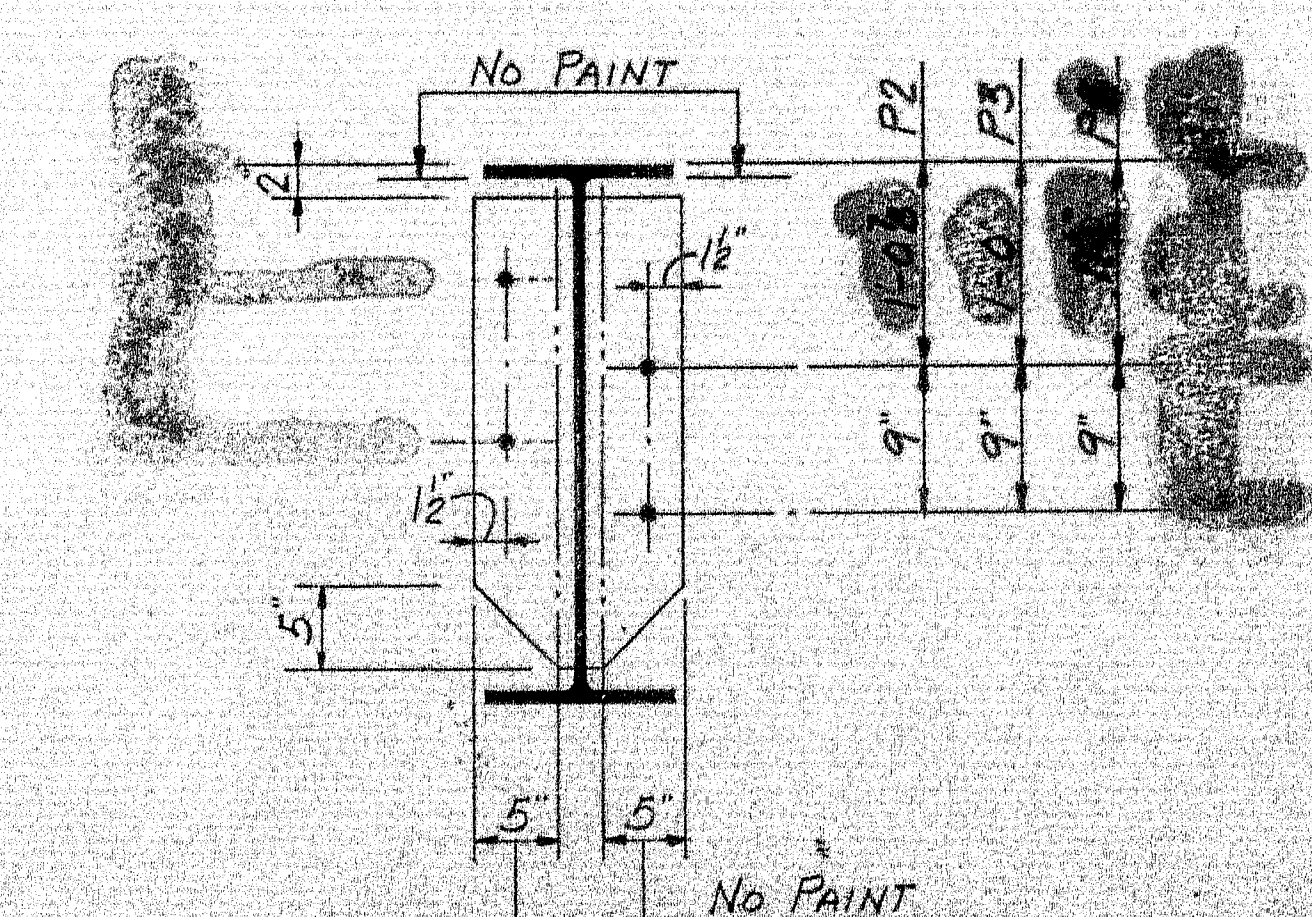
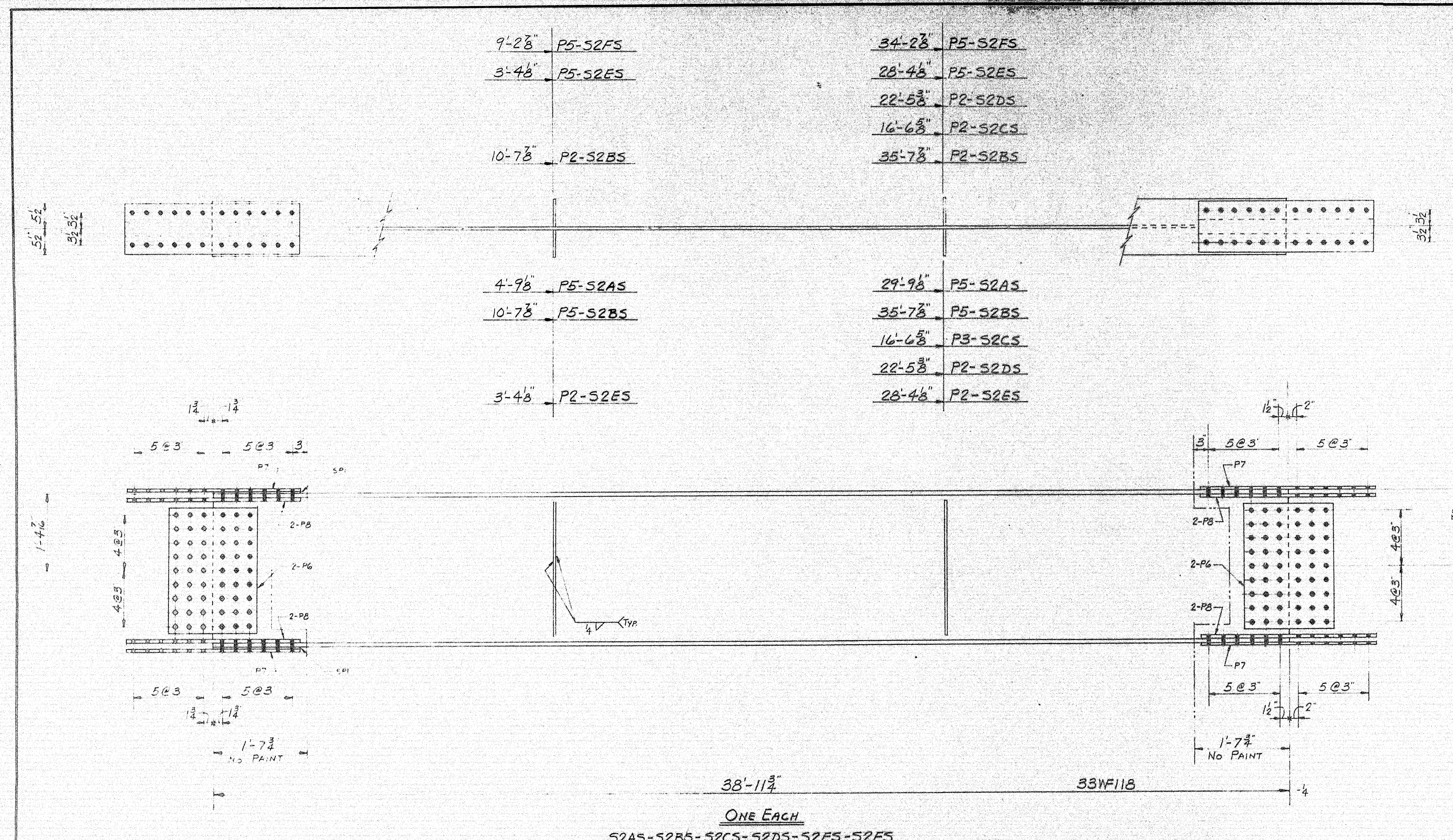


SHIP		BILL OF MATERIAL				DWG. B66-399-59
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
S2AS	1		33WF118	38'11 3/4"		A441
S2BS	1			38'11 3/4"		
S2CS	1			38'11 3/4"		
S2DS	1			38'11 3/4"		
S2ES	1			38'11 3/4"		
S2FS	1		do	38'11 3/4"		do
	7	P2	R6x3	2 5		A36
	1	P3		2 5		
	8	P5	do	2 5		
	24	P6	R10 1/2 x 3/8	2 3		
	24	P7	R11 x 1/2	3 0 2		
	48	P8	R4 x 3/4	3 0 2		
	12	SPI	R11 x 3/8	1 6 4		do
	96	SHOP	3/8 H.S. BOLT	0 3 2		FLANGE BOLTS A325
	24	SHOP	do	0 3 4		WEB BOLTS "
FIELD	495		3/8 H.S. BOLT	0 3 2		FLANGE A325
do	636		do	0 3 4		WEB do
do	1250		3/8 H.S. WASHER			
do	224		3/8 M. BOLT	0 2		
do	448		3/8 STD. WASHER			

SHOP CONNECTIONS: WELD E70 LOW-HYDROGEN
 FIELD CONNECTIONS: 3/8 H.S. BOLTS
 HOLES: 1/8" U.N.
 PAINT: STATE OF MAINE SPECS

PROJ. NO. I-95-9(34) 258		APP. AS NOTED 2-13-67	
SOUTHBOUND		STRINGERS SPAN #2	
PRINT ISSUE		Bancroft & Martin Inc. Brewer, Maine	
2 S.H.C. 2-15-67		I-95 OVER BENEDICTA ROAD	
3 CUST. 2-15-67		SHERMAN, MAINE	
6 SHOP 2-15-67		CUSTOMER CALLAHAN BROS.	
3 F.A. 1-30-67		DESIGNER M.S.H.C.	
DRAWN 1-27-67 C.J.M.		ORDER VERBAL	
REVISION		DWG. B66-399-59	
REVISION			

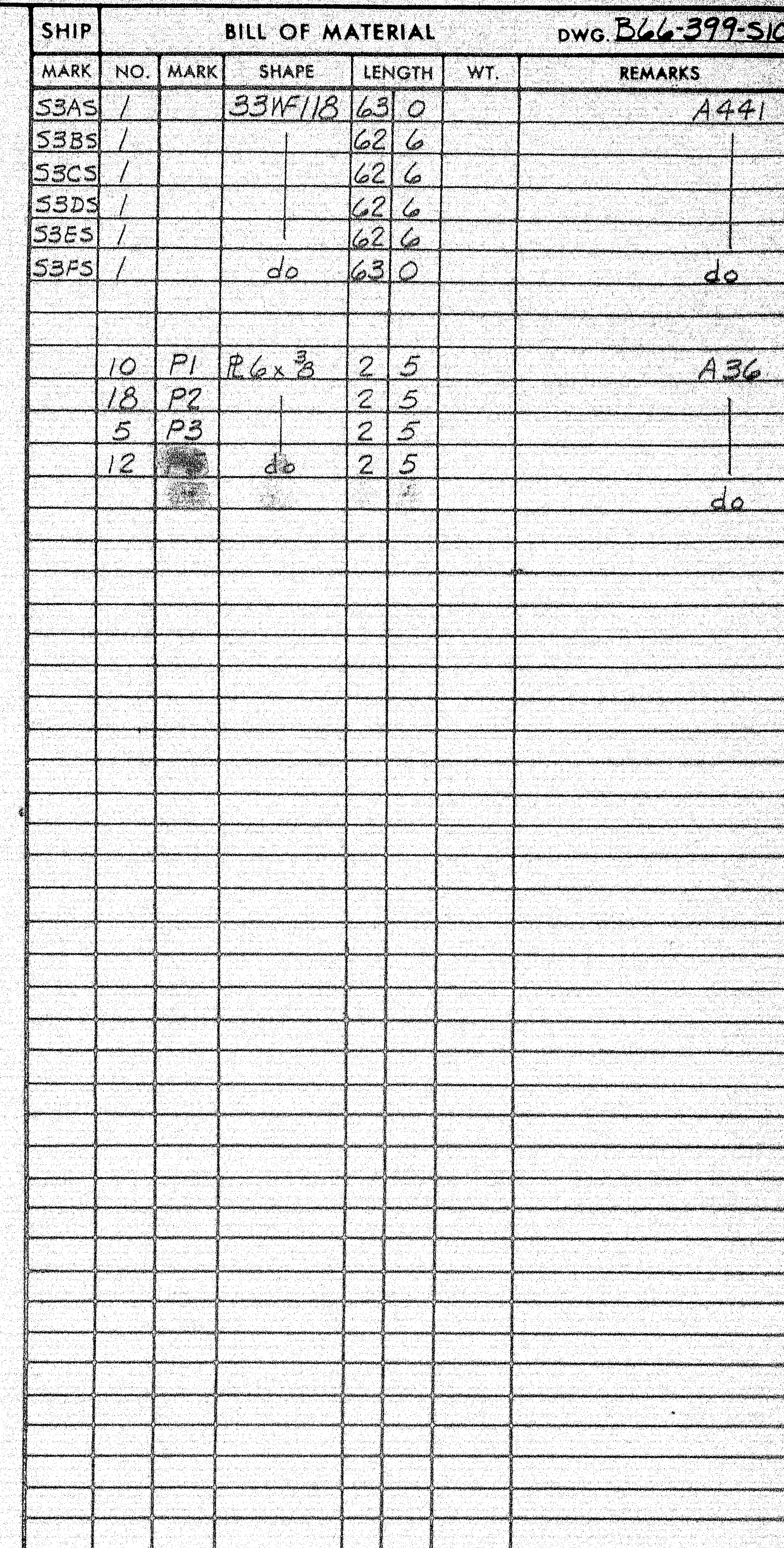
100-137



MATCH THIS END WITH
 STRINGERS MARKED "S3"

PLACE ANY NATURAL
 CAMBER UP

MATCH THIS END WITH
 STRINGERS MARKED "S1"



APP AS NOTED 2-13-67

SOUTHBOUND STRINGERS SPAN #3

PRINT ISSUE

Bancroft & Martin Inc.
Brewer, Maine

2	MSHC	2-15-67
---	------	---------

T-95 OVER BENEDICTA P...

3	CUST.	2-15-67
---	-------	---------

1 75 OVER BENEDICTA ROAD

6	SHOP	2-15-67
---	------	---------

SHERMAN, MAINE

3	F.A.	1-30-67
---	------	---------

CUSTOMER CALLAHAN BROS.

DRAWN	1-27-67	C.J.M.
BY		

DESIGNER M S H C

REVISION		
REVISION		

DESIGNER	7/11/80	11/11/80

REVISION		
REVISION		

ORDER VERBAL DWG. B66-399-

100-128

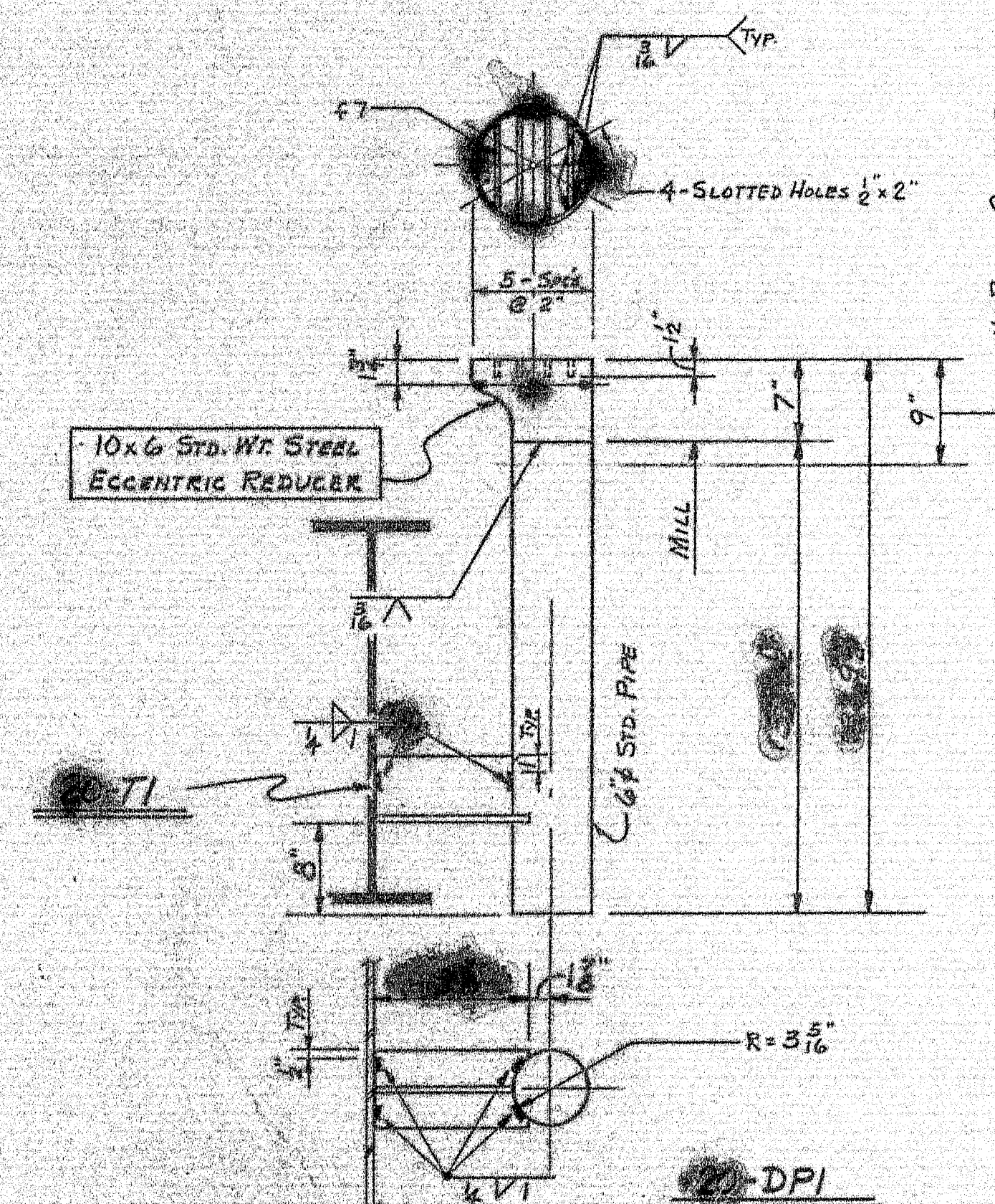
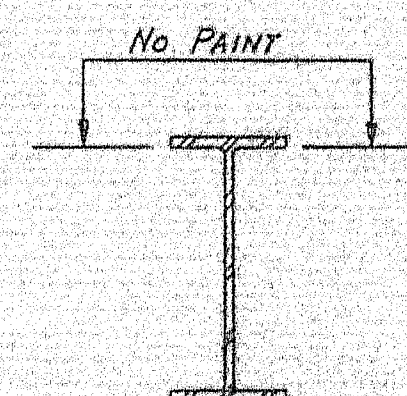
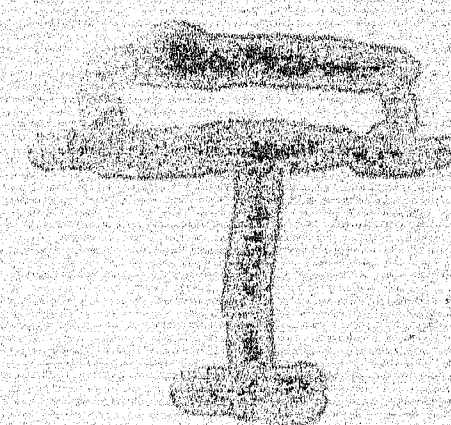
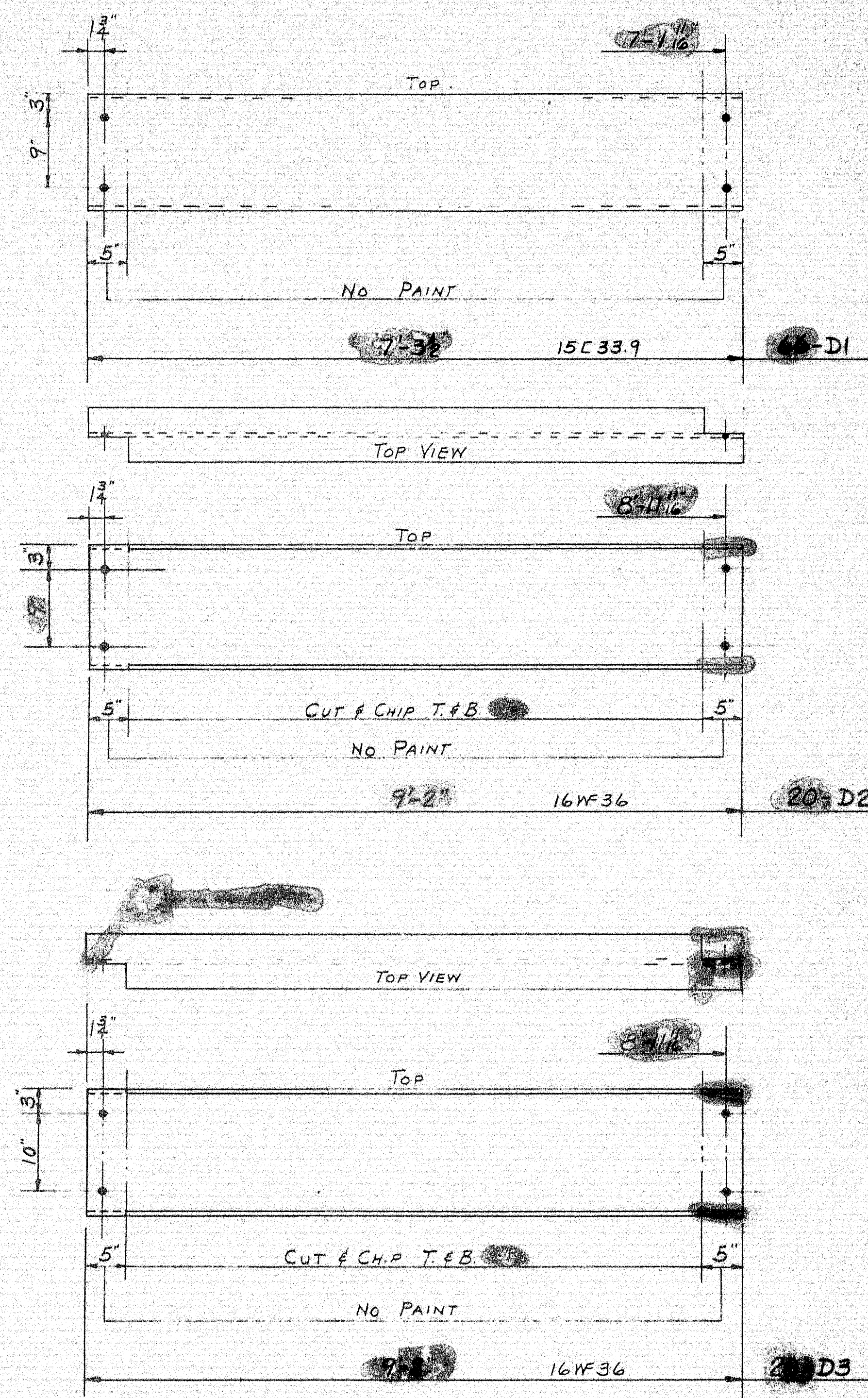
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100-132

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1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971) using a Shimadzu 1601 UV-Visible Spectrophotometer. The concentration of chlorophylls was expressed in $\mu\text{g mL}^{-1}$.

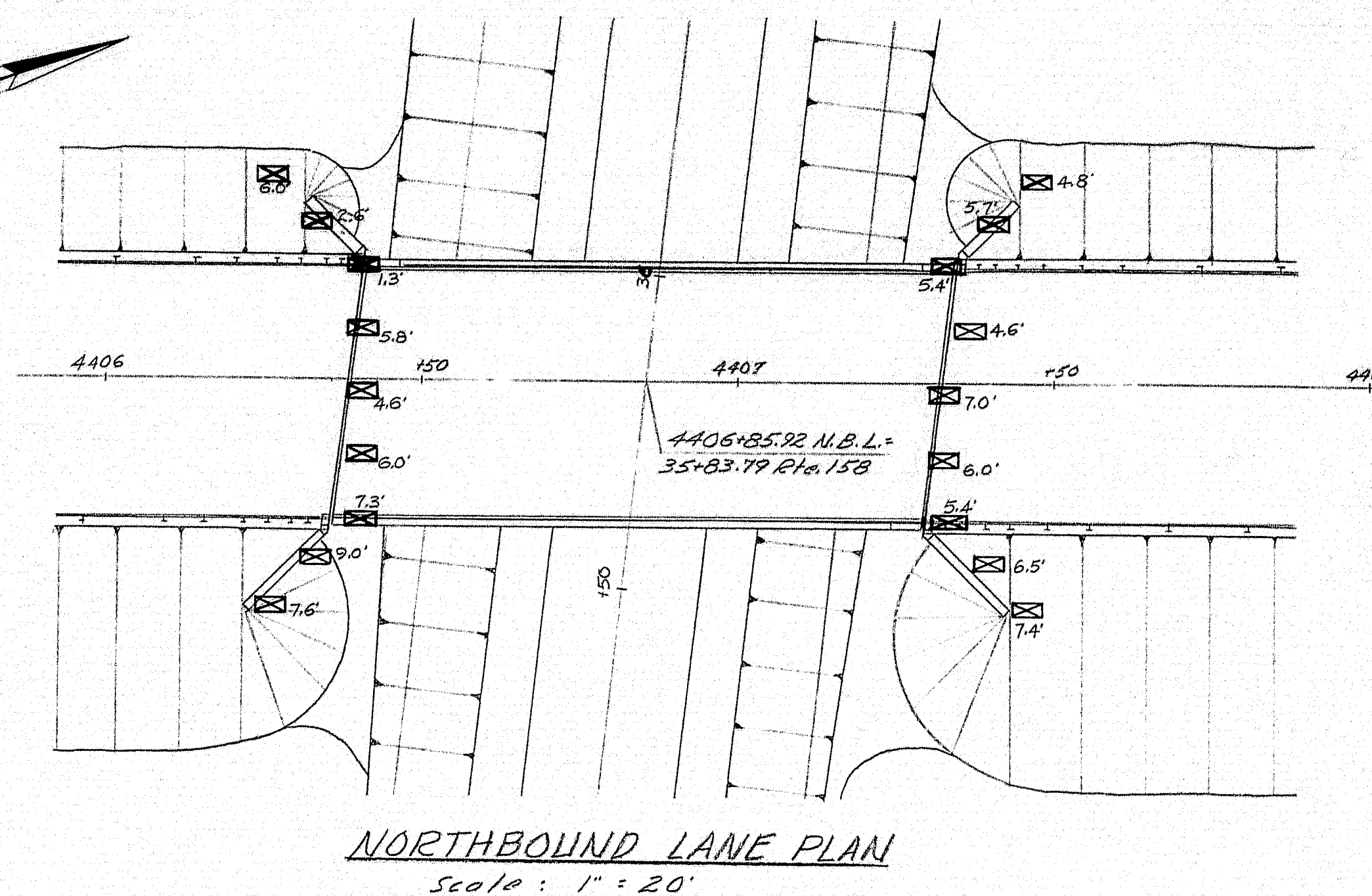
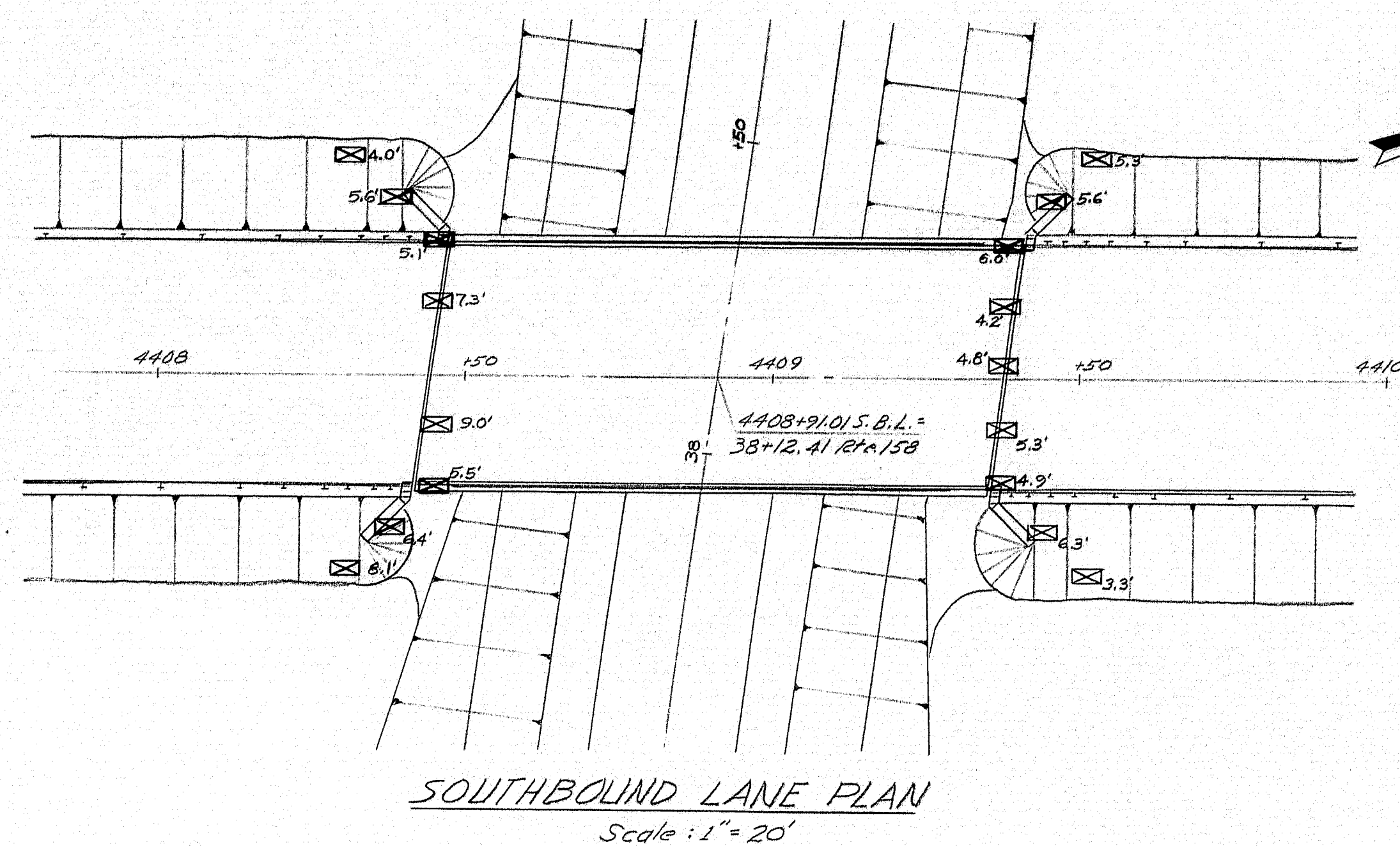


SHIP		BILL OF MATERIAL				DWG.
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
D1	20		15C33.9	7'-1 1/2"		A36
D2	20		16WF36	9'-2"		
D3	20		do			
DPI	20		60 STD. PIPE	3'-2 1/2"		MIE A120
			10x6 STD. STEEL WELD ECCENTRIC REDUCER			Req. Do
T1	20		576WF135	0'-9 3/4"		A36
		F7	FB 1 1/2 x 1/2	0'-10"		CUT TO FIT

SHOP CONNECTIONS: WELD (E-70 LOW-HYDROGEN)
 FIELD CONNECTIONS: BOLT & WELD
 HOLES: 15/16" UNLESS NOTED
 PAINT: STATE OF MAINE SPECS.

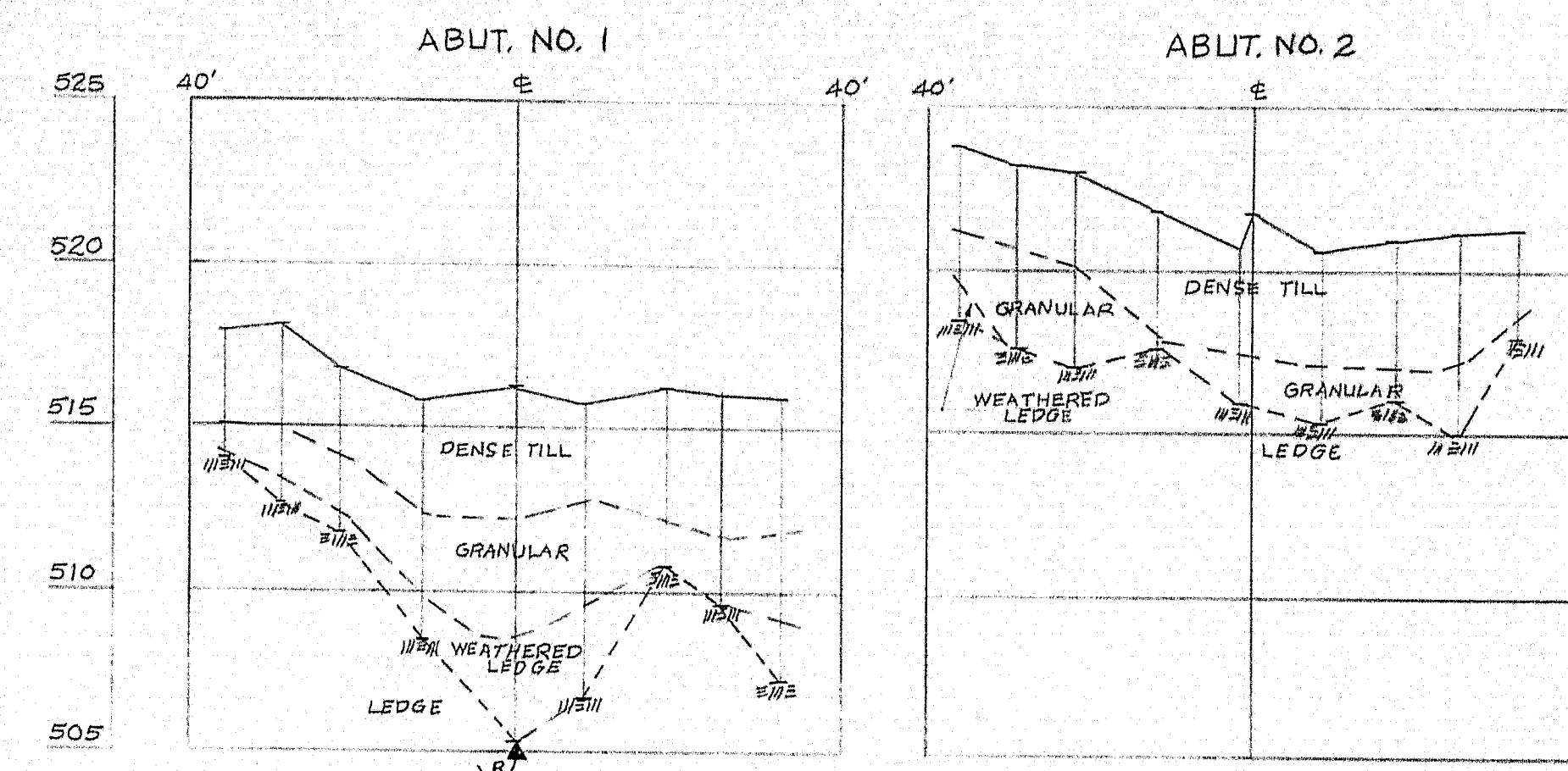
PRJ. NO. I-95-9		DIAPHRAGMS & DRAIN PIPE	
PRINT ISSUE		Bancroft & Martin Inc. Brewer, Maine	
5	S.H.C.	5	DESIGNED BY
5	CUST.	5	CHECKED BY
5	SHOP	5	DATE
5	F.A.	5	DATE
DRAWN	G.J.M.	CUSTOMER	STATE HIGHWAY COMMISSION
REVISION		DESIGNER	STATE HIGHWAY COMMISSION
REVISION		ORDER	VERBAL
REVISION		DWG.	100-139

100-139

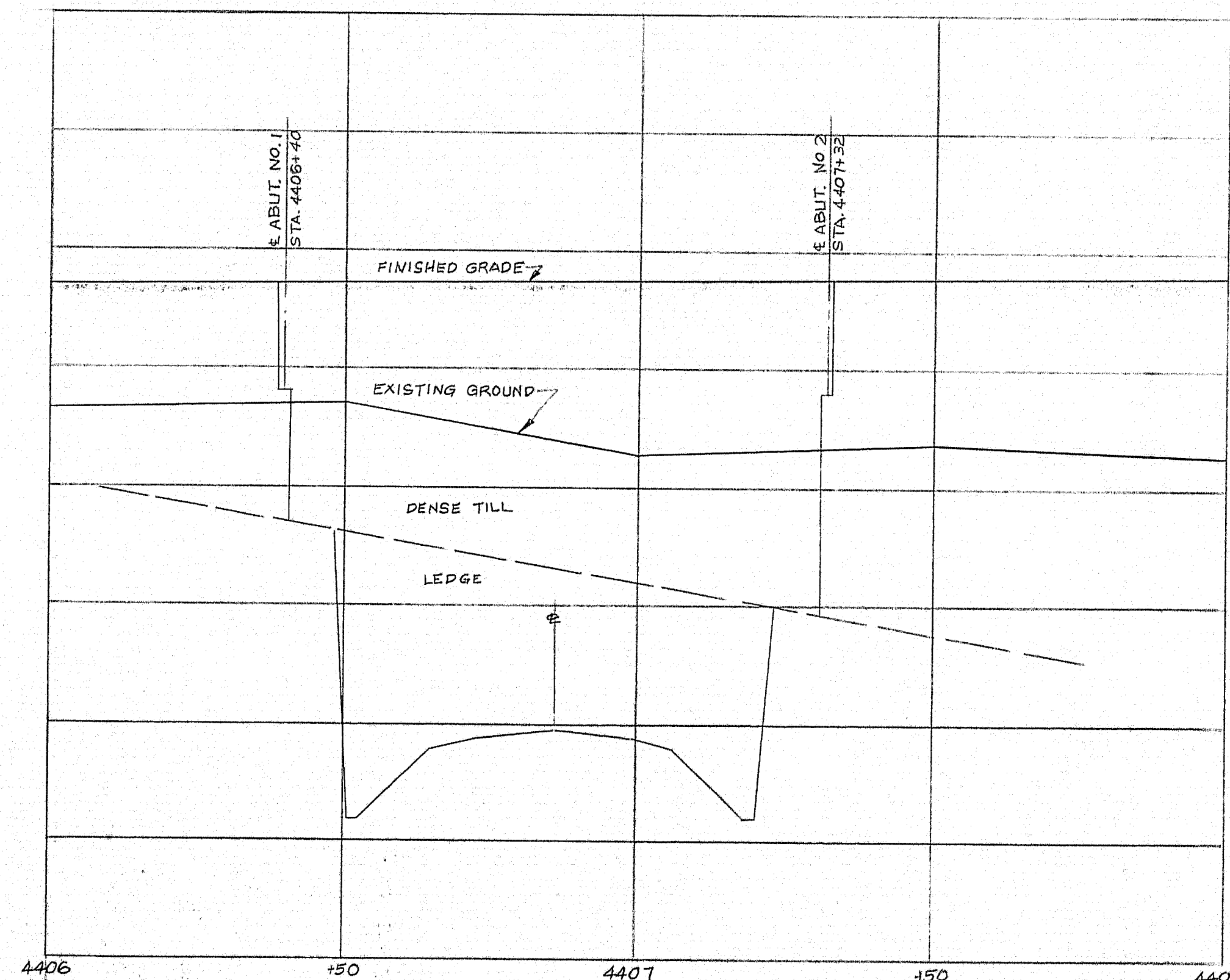
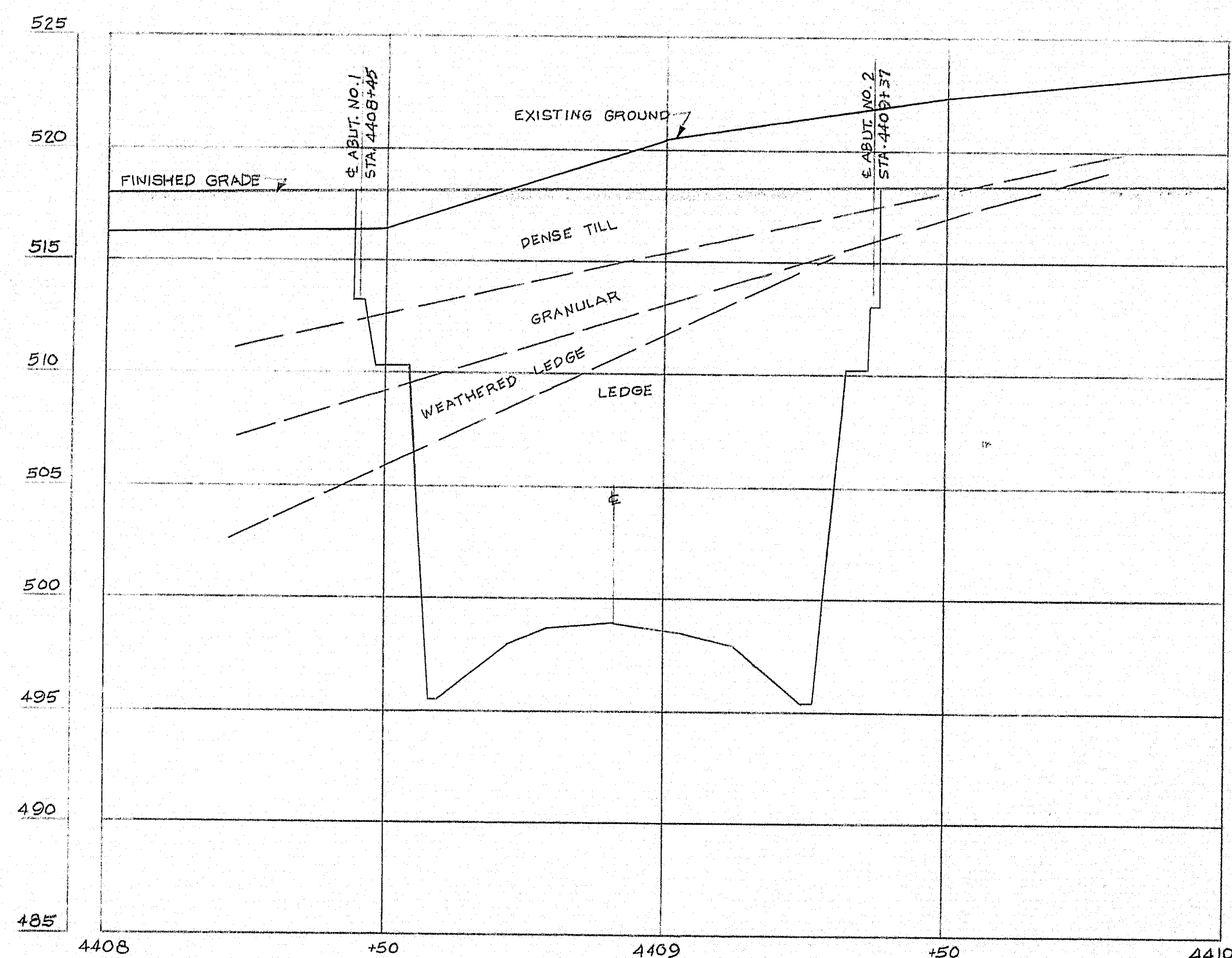
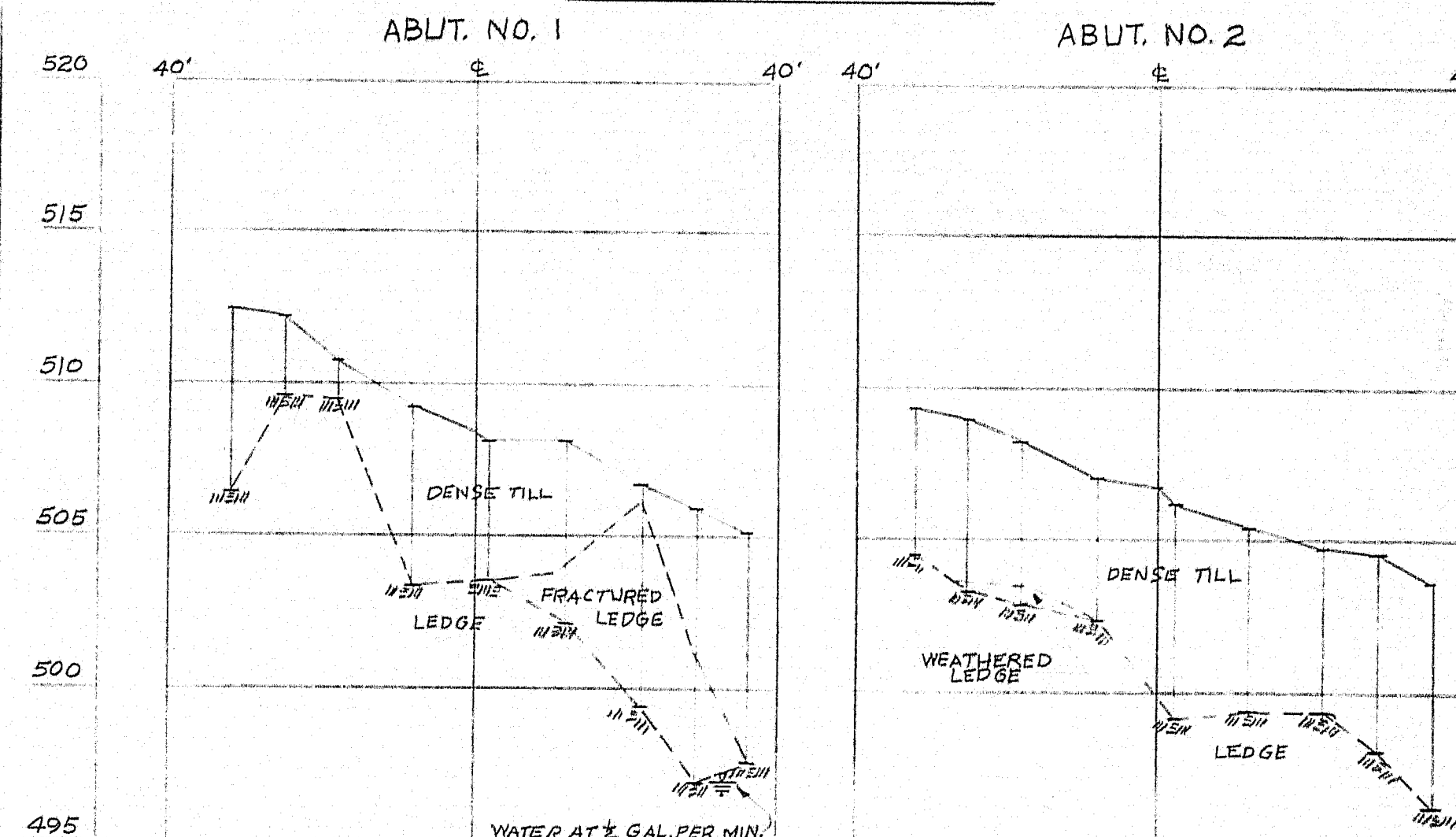


TRANSVERSE SECTIONS

SOUTHBOUND LANE



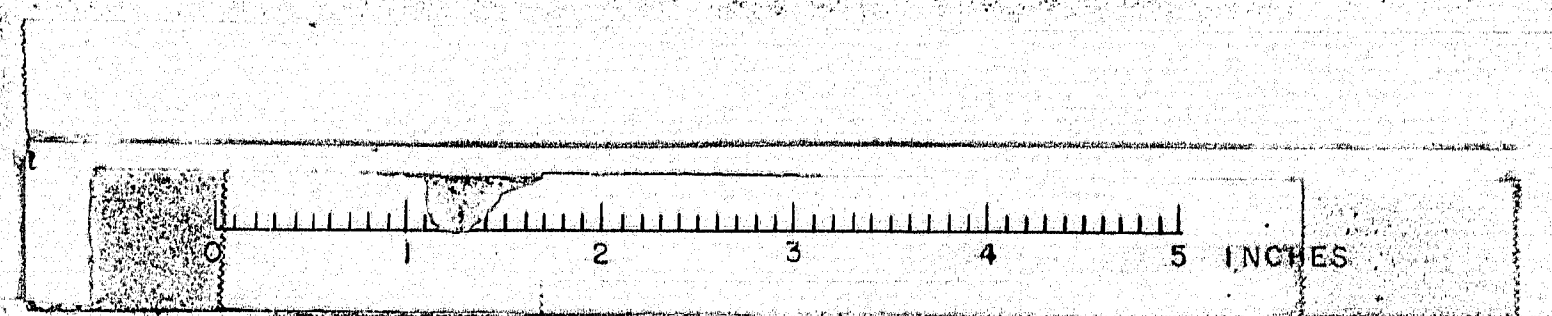
NORTHBOUND LANE

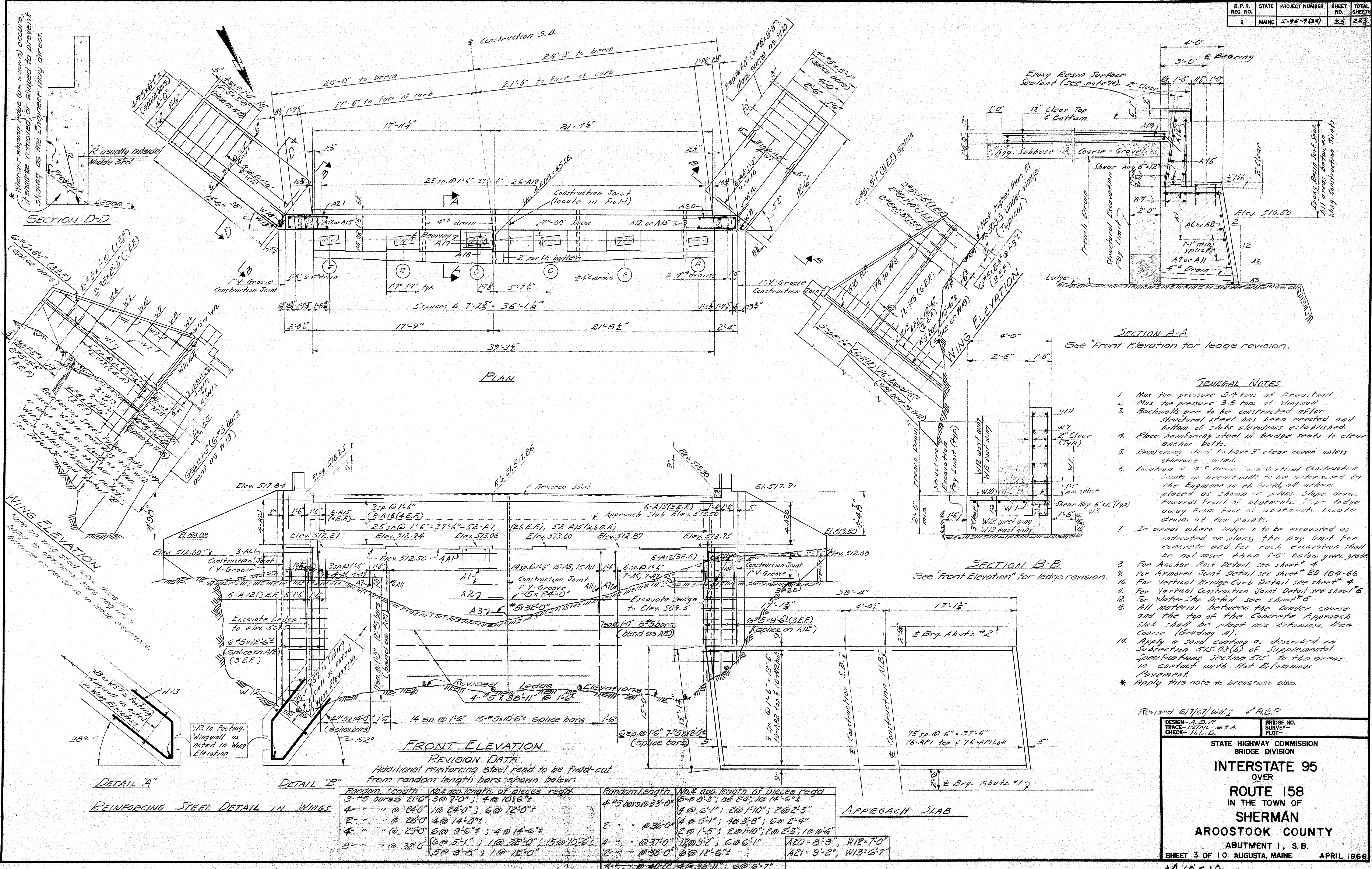


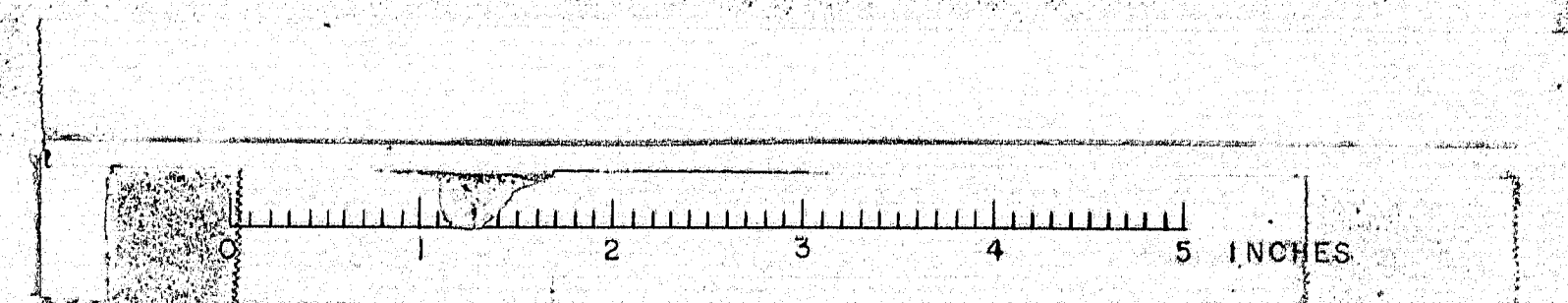
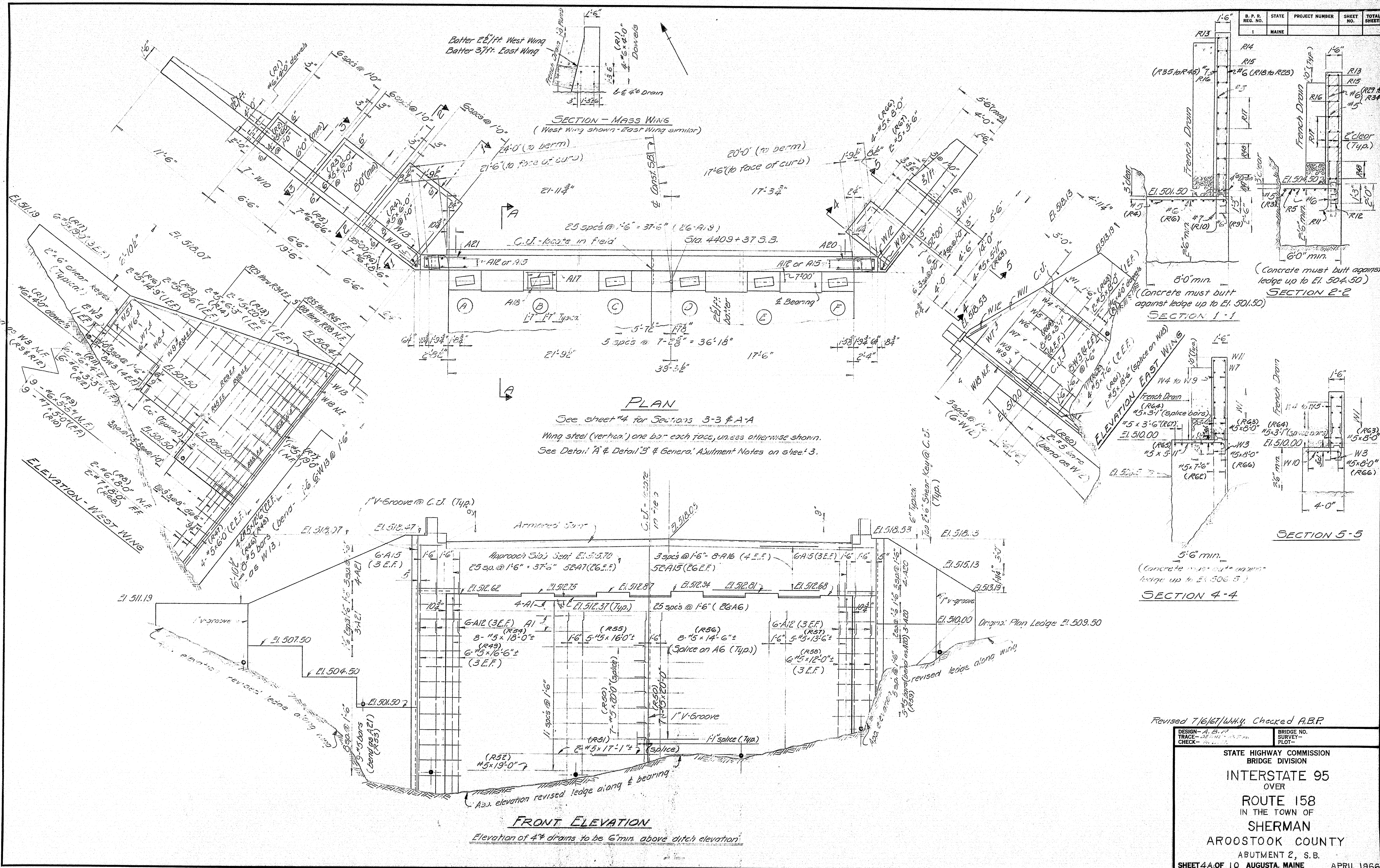
Note - This sheet is for foundation information only.
Do not use for construction details.

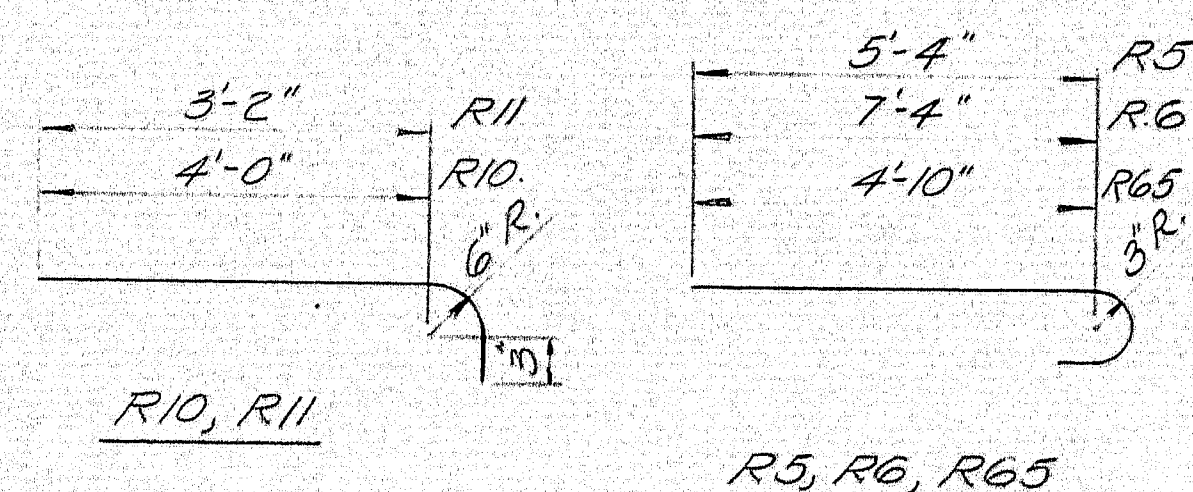
DESIGN - TRACE - CHECK -	Soils Division	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION INTERSTATE 95 OVER ROUTE 158 IN THE TOWN OF SHERMAN AROOSTOOK COUNTY FOUNDATION SURVEY		
SHEET 2 OF 10 AUGUSTA, MAINE AUG. 1966		

M-2517









All dimensions to 1/2 bars.
All reinforcing steel to be of intermediate grade - $f_y = 20,000$ psi.

BENT BARS

Mark	Size	Length	No.	Remarks
R5	#6	6'-6"	7	Footings West Wing
R6	#6	8'-6"	7	" " "
R9	#6	3'-3"	9	Footings West Wing - bend as W3 sh. 10
R10	#7	5'-0"	9	" " "
R11	#6	4'-2"	6	" " "
R12	#6	3'-3"	6	" " " - bend as W3 sh. 10
R46	#5	6'-7"	8	West Wing - bend as W3 sh. 10
R53	#5	9'-2"	9	Breastwall - bend as A21 sh. 10
R59	#5	8'-3"	5	" - bend as A20 "
R60	#5	7'-0"	2	East Wing - bend as W12 "
R65	#5	5'-11"	4	Footings East Wing

STRAIGHT BARS

R1	#6	4'-0"	8	Dowels - Junction mass conc. wings
R2	#5	6'-0"	4	West Wing Footings
R3	#5	6'-0"	6	" " "
R4	#5	6'-0"	8	" " "
R7	#5	19'-0" ±	1	West Wing Wall & Footings
R8	#6	8'-0" ±	2	West Wing Footings
R13	#5	20'-6" ±	2	" " Wall (Horiz.)
R14	#5	6'-3" ±	2	" " "
R15	#5	10'-6" ±	2	" " "
R16	#5	14'-9" ±	2	" " "
R17	#5	19'-0"	6	" " " (Horiz.)
R18	#6	16'-4"	1	" " " (Vert.)
R19		16'-1"		" " "
R20		15'-11"		" " "
R21		15'-9"		" " "
R22		15'-7"		" " "
R23		15'-5"		" " "
R24		15'-2"		" " "
R25		14'-11"		" " "
R26		14'-8"		" " "
R27		14'-5"		" " "
R28	#6	14'-2"	1	" " "
R29	#6	10'-11"	2	" " "
R30		10'-7"		" " "
R31		10'-3"		" " "
R32		9'-10"		" " "
R33		9'-5"		" " "
R34	#6	9'-0"	2	" " "
R35	#7	16'-4"	1	" " "
R36		16'-1"		" " "
R37		15'-11"		" " "
R38	#7	15'-9"	1	" " " (Vert.)

STRAIGHT BARS CONT'D

Mark	Size	Length	No.	Remarks
R39	#7	15'-7"	1	West Wing Wall (Vert.)
R40		15'-5"		" " "
R41		15'-2"		" " "
R42		14'-11"		" " "
R43		14'-8"		" " "
R44		14'-5"		" " "
R45	#7	14'-2"	1	" " "
R47	#5	6'-0"	4	West Wing Wall (Horiz.)
R48	#5	12'-6"	4	" " "
R49	#5	16'-6" ±	6	Breastwall (West end)
R50	#5	20'-0"	14	Breastwall (Horiz.)
R51	#5	17'-1" ±	2	" " "
R52	#5	19'-0" ±	1	" " "
R54	#5	18'-0" ±	8	Breastwall (Vert.)
R55	#5	16'-0" ±	5	" " "
R56	#5	14'-6" ±	8	" " "
R57	#5	13'-6" ±	3	" " "
R58	#5	12'-0" ±	6	" " (East end)
R61	#5	13'-6" ±	1	East Wing Wall & Footings
R62	#5	7'-6" ±	4	" " "
R63	#5	8'-0"	2	East Wing Wall (Horiz.)
R64	#5	3'-1"	8	" (splice bars)
R66	#5	8'-0"	4	East Wing Footings
R67	#5	3'-6"	2	" " "
R68	#7	8'-0"	2	West Wing Footings

SCHEDULE FOR ORDERING RANDOM LENGTHS (Bars to be field-cut)

No.	Size	Random Lengths	Bars Produced
3	#5	21'-0"	2(R67+R60), 2(R51+R64)
20		20'-0"	6(R49+R64), (14-R50)
9		18'-0"	(8-R54), 1(R53+R59)
8		16'-0"	(5-R55), (2-R63), (4-R66)
10		5'-0"	(8-R56), 4(R62)
6		14'-0"	(5-R57), (1-R61)
8	#5	12'-0"	(6-R53), (4-R65)
1	#6	16'-0"	(4-R1)
5	#5	19'-0"	(8-R53), (1-R52)
2	#5	17'-0"	(4-R59)
3	#5	21'-0"	(2-R15), (2-R13)
7		18'-0"	(6-R17), (1-R7)
2		18'-0"	(6-R3)
2		15'-0"	(2-R16)
4		14'-0"	(8-R46)
8	#5	12'-0"	(4-R47), (8-R4), (4-R2)
2	#6	22'-0"	(2-R29), (2-R30)
1	#6	21'-0"	(2-R31)
2		20'-0"	(6-R12), (2-R32)
1		19'-0"	(2-R33)
1		17'-0"	(1-R18)
8		16'-0"	(4-R1), (2-R8), (1-R19), (1-R20), (1-R21), (1-R22), (1-R23), (1-R24)
11		15'-0"	(7-R5+7-R6), (1-R25), (1-R26), (1-R27), (1-R28)
2	#6	13'-0"	(6-R11)
2	#7	17'-0"	(1-R35), (1-R36)
6		16'-0"	(1-R40), (1-R41), (1-R37), (1-R38), (1-R39), (2-R68)
7	#7	15'-0"	(1-R42), (1-R43), (1-R44), (1-R45), (9-R10)
5	#5	13'-0"	(2-R14), (4-R48)
1	#6	18'-0"	(2-R34)
3	#6	10'-0"	(9-R9)

Bars for Breastwall & East Wing

Bars for West Wing

ADDITIONAL REINFORCING STEEL REQ'D DUE TO REVISION OF ABUT 2 S.B.

DESIGN - M.H.Y.
TRACE - M.H.Y.
CHECK - R.B.P.

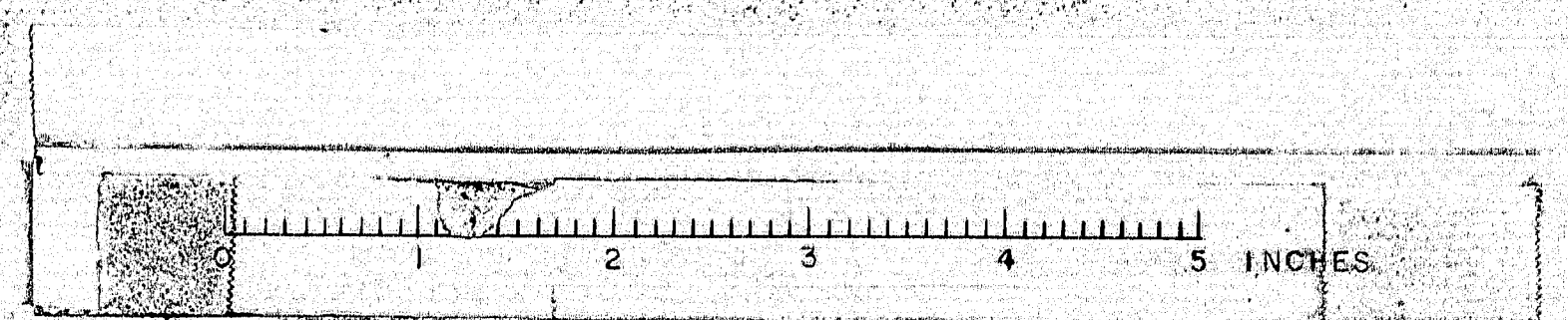
BRIDGE NO. _____
SURVEY - _____
PLOT - _____

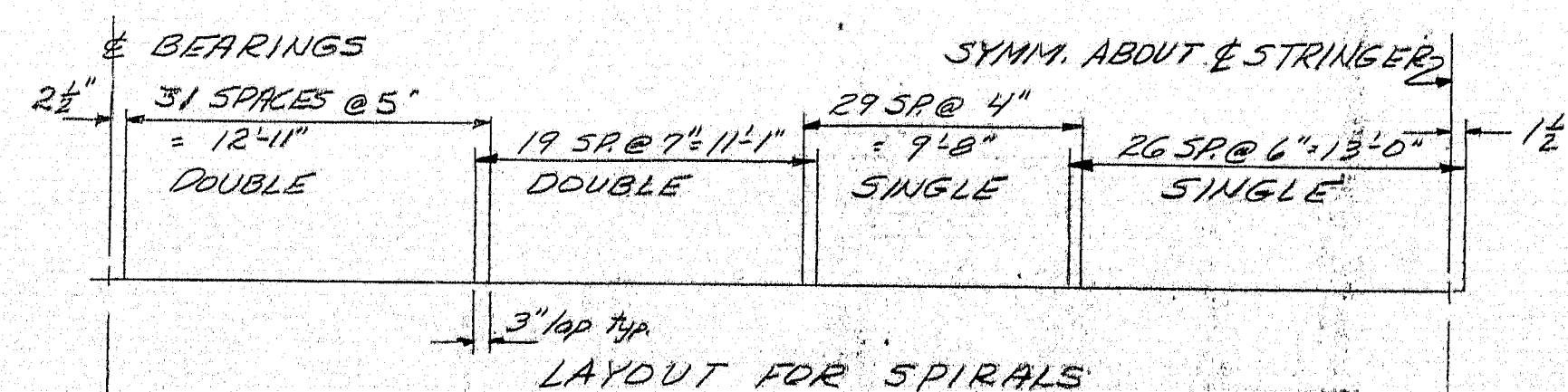
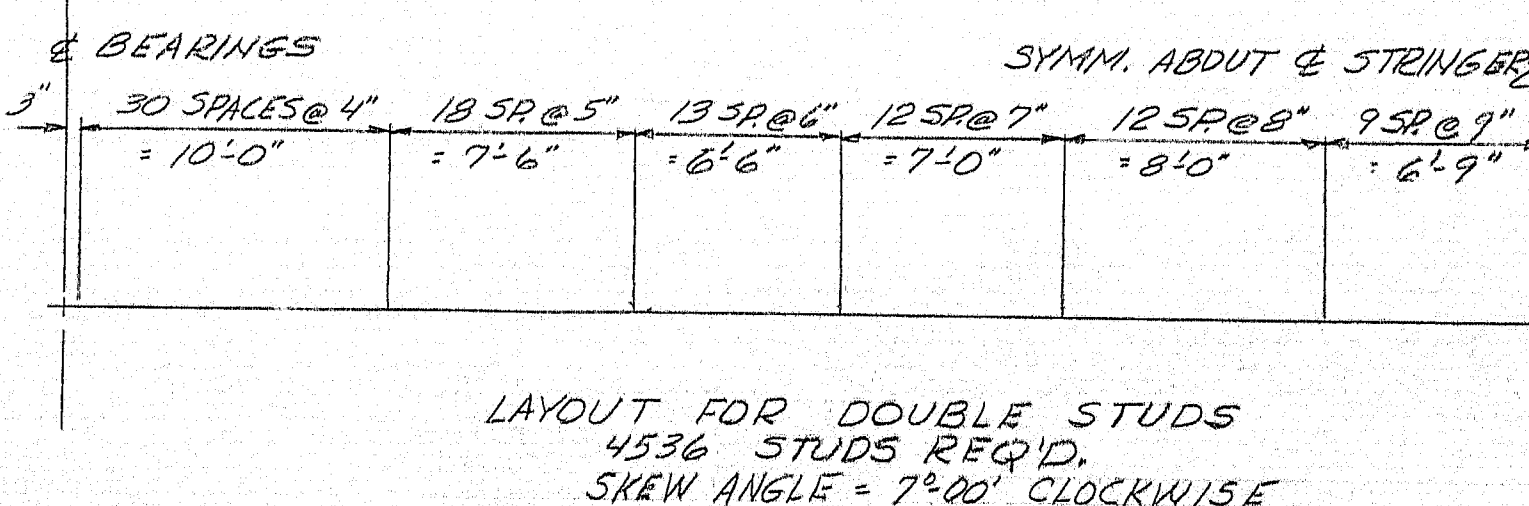
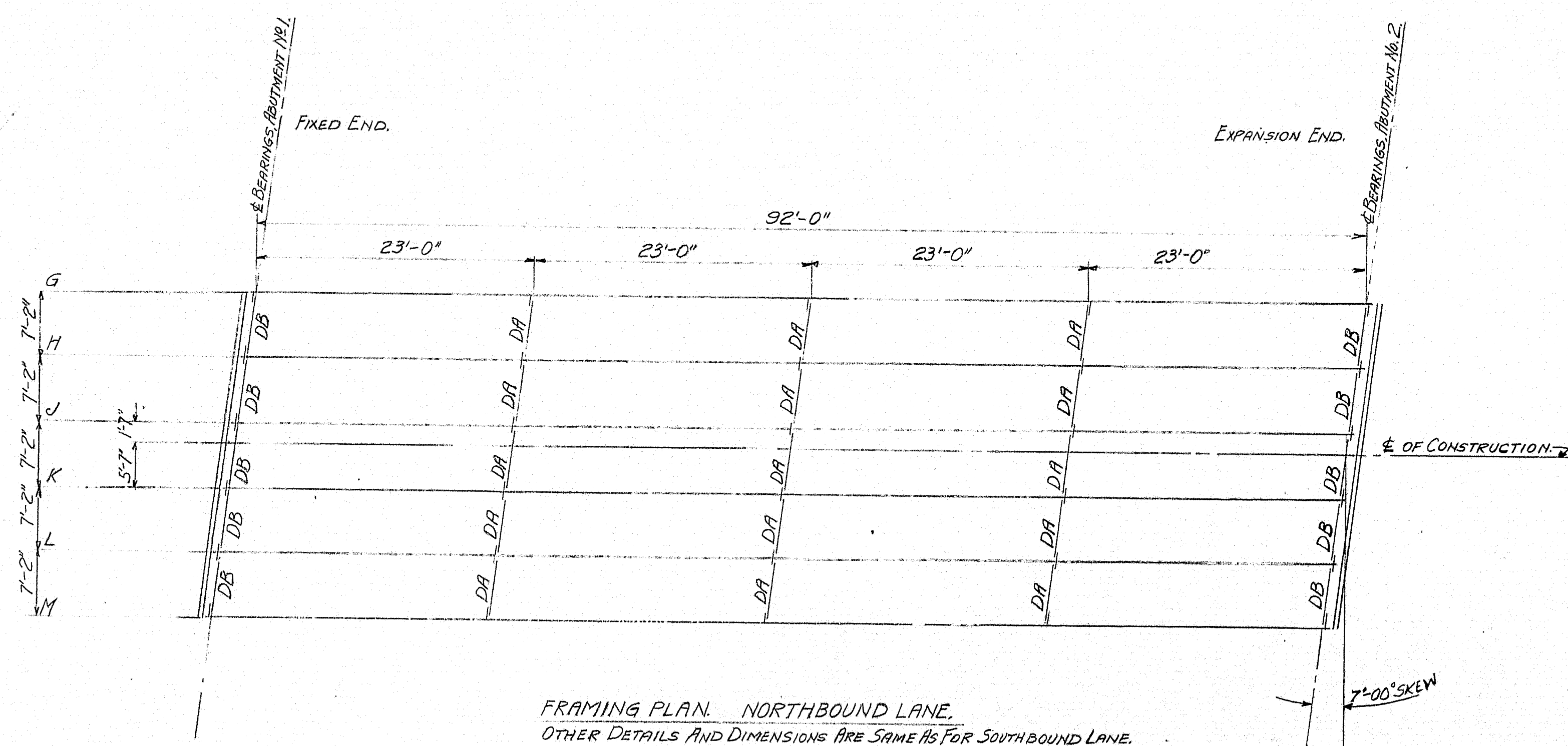
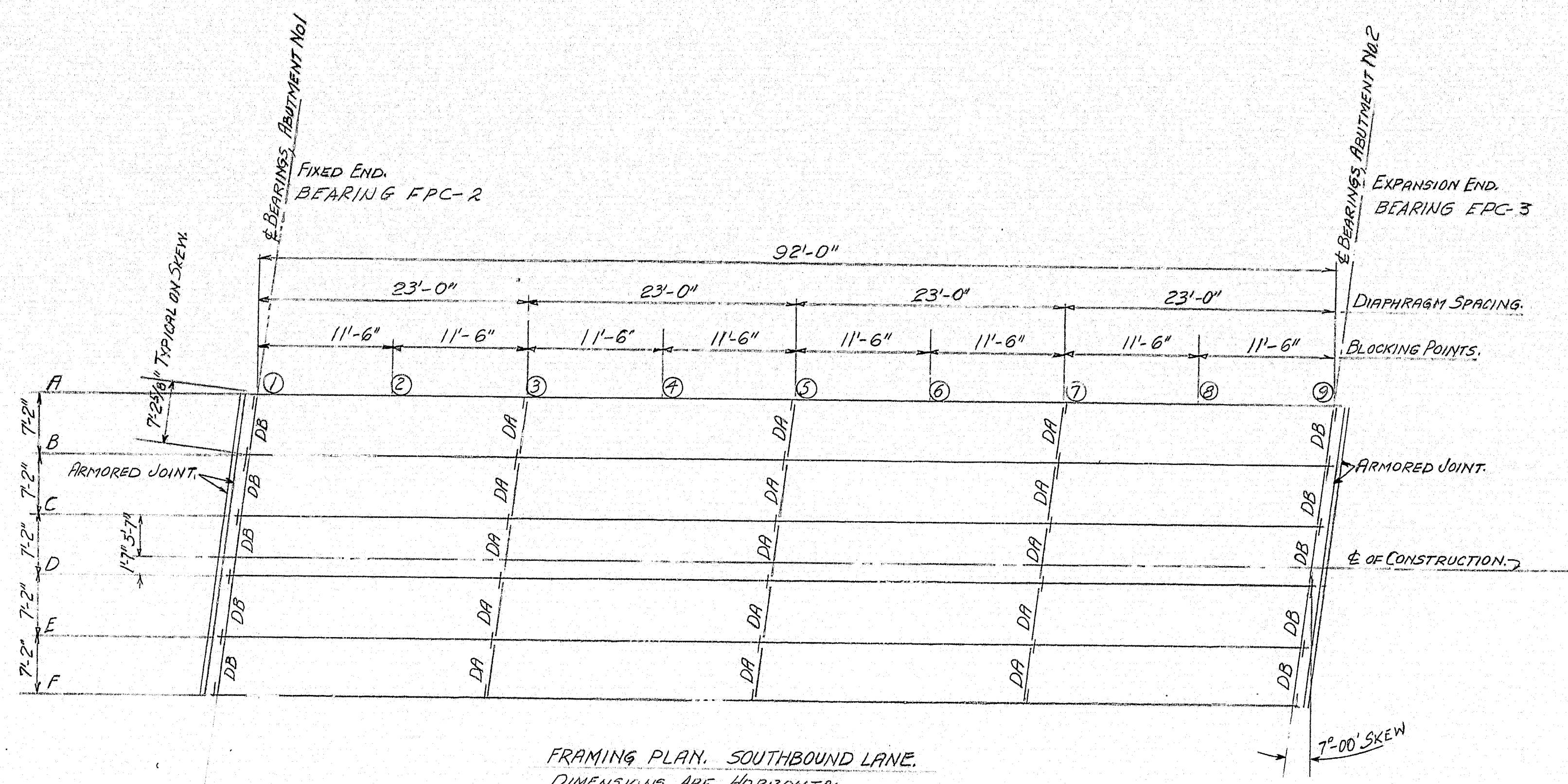
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
ROUTE 158
IN THE TOWN OF
SHERMAN
ARROOSTOOK COUNTY

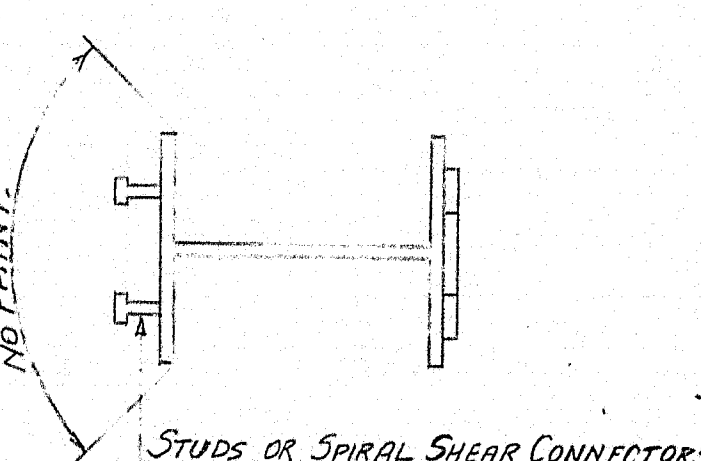
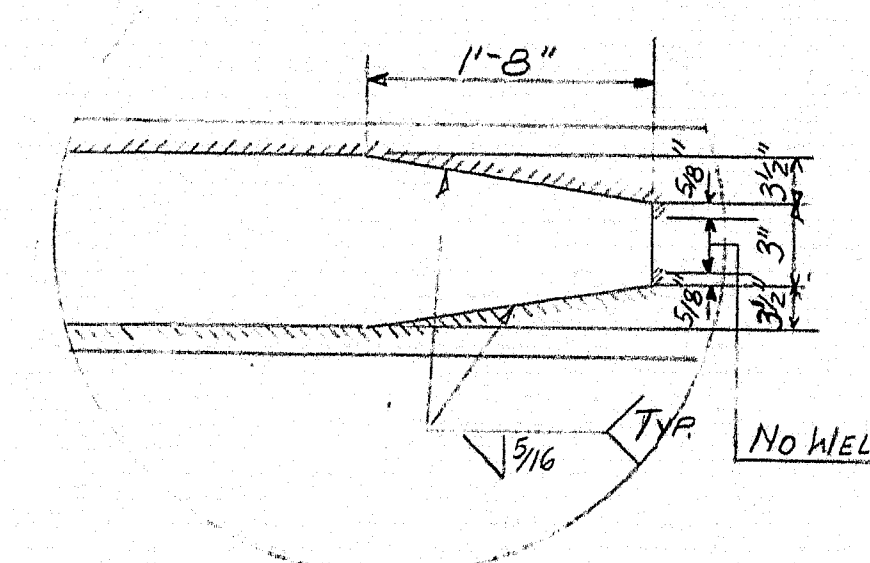
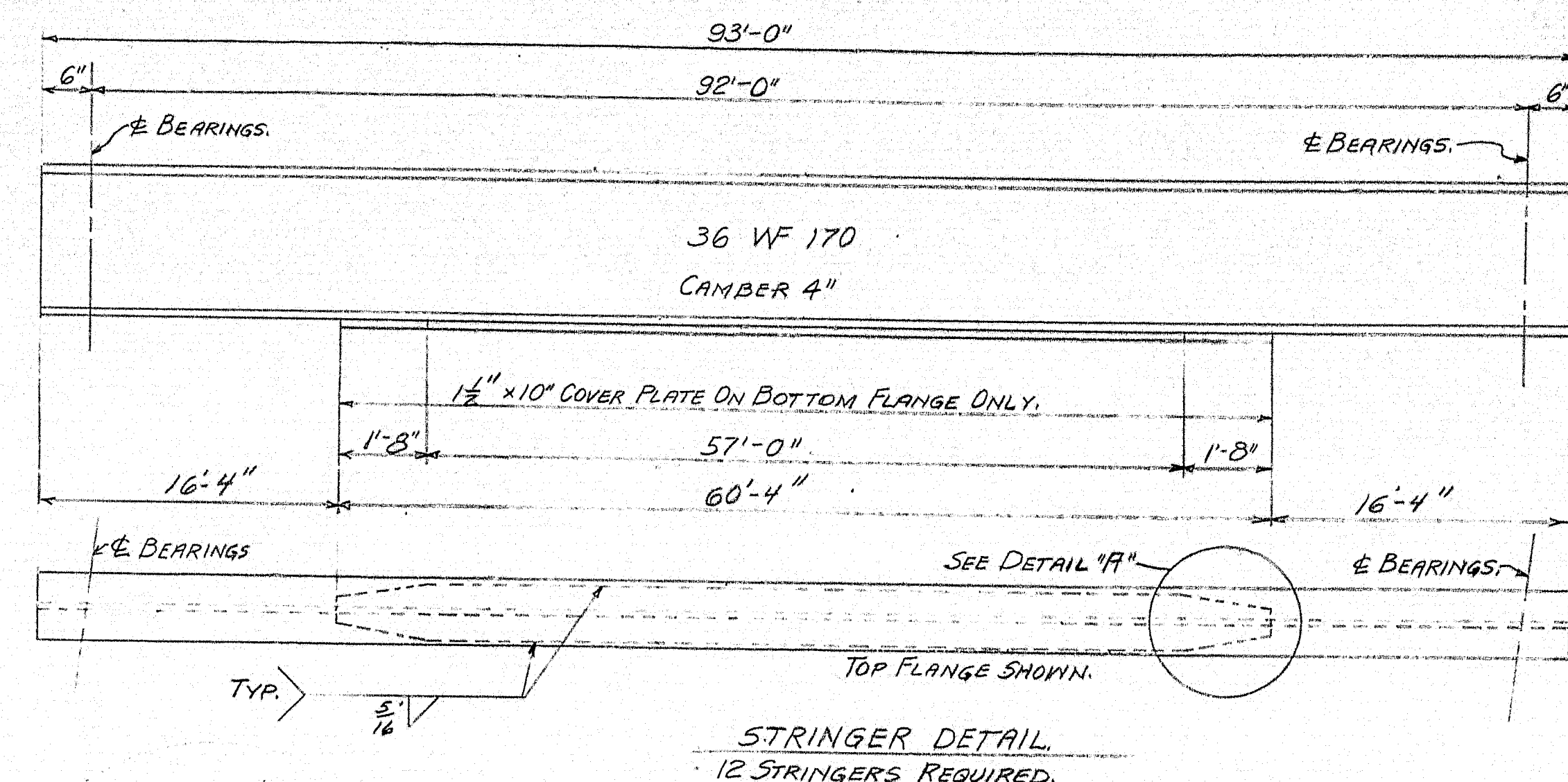
ADDITIONAL REINFORCING STEEL ABUT 2 S.B.
SHEET 48 OF 10 AUGUSTA, MAINE JULY 1967

M-2521

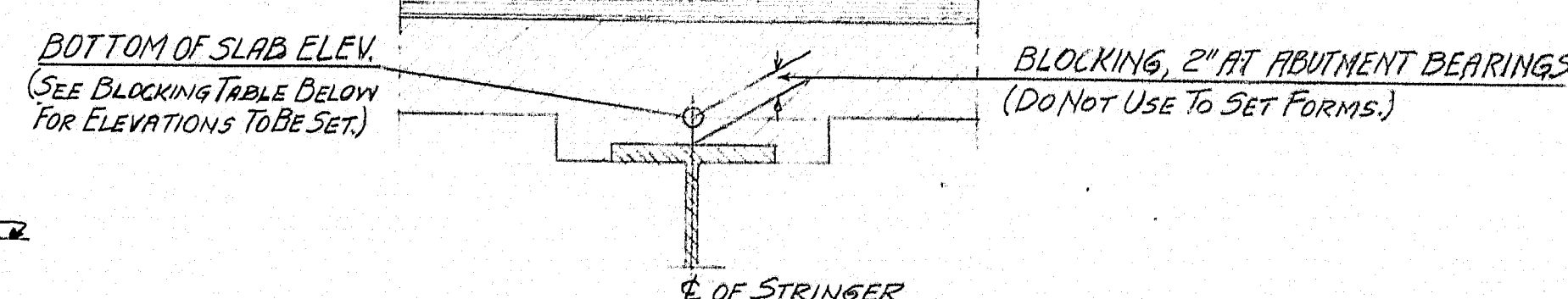




SHEAR CONNECTORS
TYPICAL FOR EACH STRINGER



- NOTES
1. Set Diaphragms normal to grade.
 2. Armored joints shall consist of two elements with a joint at construction &.
 3. All dimensions are horizontal.



STRINGER	1	2	3	4	5	6	7	8	9
A	516.81	516.74	517.06	517.12	517.15	517.18	517.13	517.67	516.86
B	516.91	517.06	517.16	517.25	517.30	517.29	517.26	517.19	517.09
C	517.02	517.16	517.20	517.36	517.41	517.40	517.37	517.30	517.21
D	517.06	517.21	517.32	517.41	517.46	517.47	517.44	517.37	517.28
E	516.92	517.06	517.14	517.27	517.32	517.33	517.30	517.24	517.15
F	516.77	516.92	517.05	517.14	517.19	517.20	517.16	517.11	517.02

STRINGER	1	2	3	4	5	6	7	8	9
G	512.50	512.64	512.77	512.86	512.91	512.92	512.90	512.84	512.76
H	512.62	512.76	512.89	512.98	513.03	513.05	513.02	512.96	512.88
J	512.74	512.88	513.01	513.10	513.16	513.17	513.14	513.08	513.00
K	512.67	512.81	512.94	513.03	513.08	513.10	513.07	513.01	512.93
L	512.54	512.68	512.81	512.90	512.96	512.97	512.94	512.88	512.81
M	512.41	512.56	512.68	512.78	512.83	512.84	512.82	512.76	512.68

STRUCTURAL STEEL CLASSIFICATION
ASTM-A441 FOR STRINGERS AND COVER
PLATES. ASTM-A36 FOR BEARINGS,
SHEAR CONNECTORS, ARMORED JOINTS, AND
DIAPHRAGMS, EXCEPT AS NOTED ON
THE STANDARD DETAILS.

REFERENCES
BEARINGS BD 101-64
REQ'D 12 EPC-2, 12 EPC-3
DIAPHRAGMS BD 104-66
REQ'D 30 TYPE A 20 TYPE B
ARMORED JOINT BD 104-66
REQ'D 4
SHEAR CONNECTORS - BD 104-66
DRAINS - Sheet 9 and BD-104-66

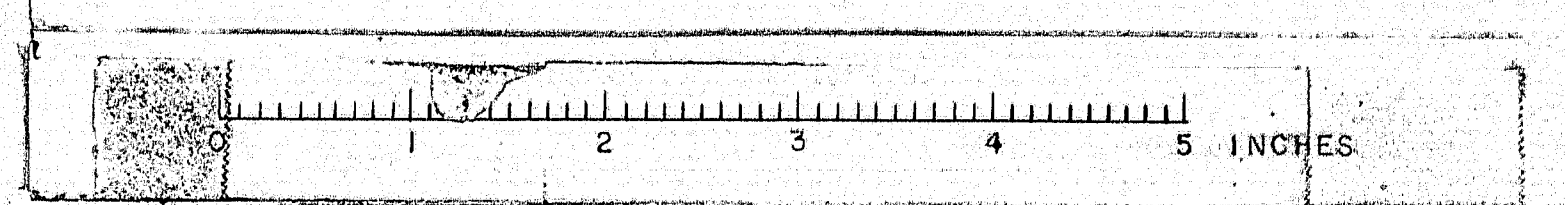
DESIGN - PMW
TRACE - JLF
CHECK - J. CHANDLER

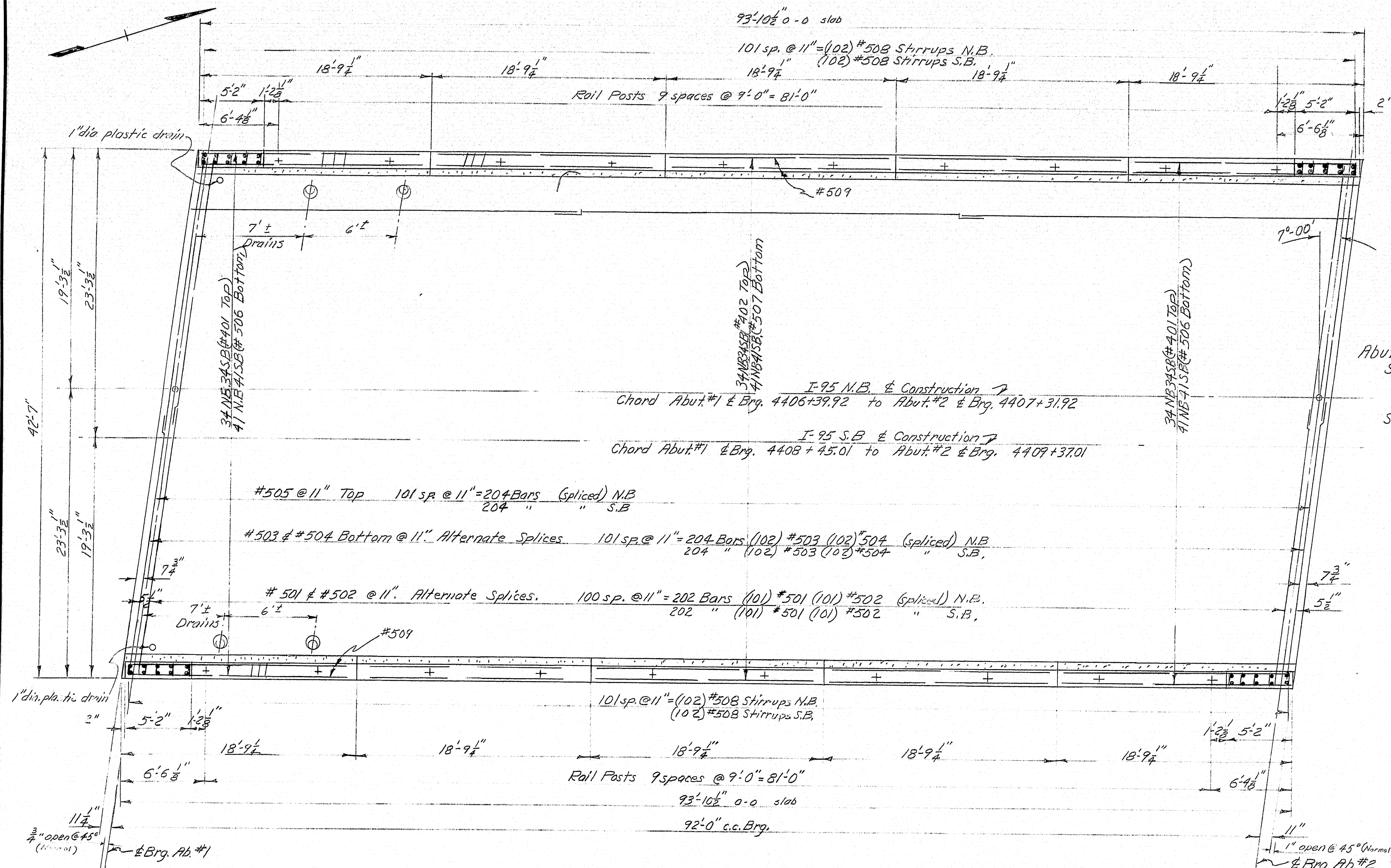
BRIDGE NO.
SURVEY
PLOT

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
INTERSTATE 95
OVER
ROUTE 158
IN THE TOWN OF
SHERMAN
AROSTOOK COUNTY
STRUCTURAL STEEL

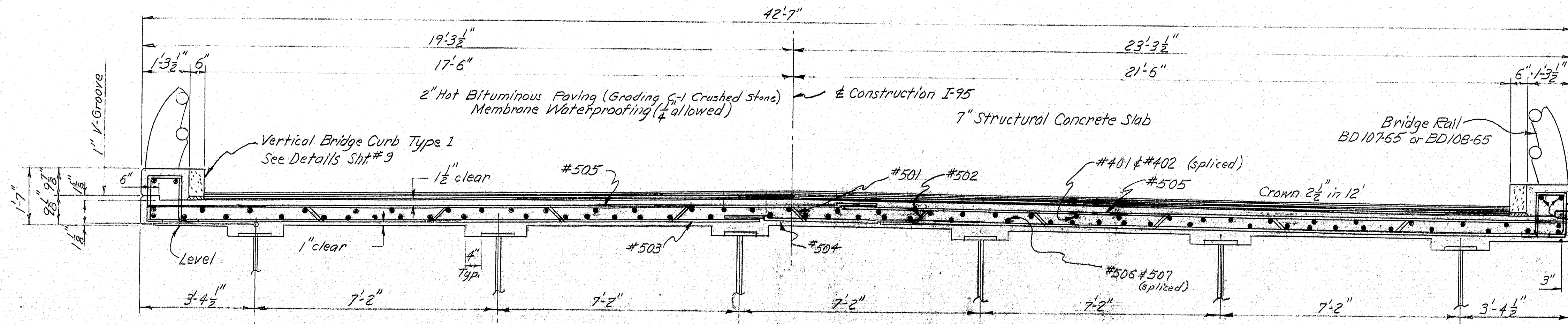
Revised - Table of Bottom of Slab
Elevations - Southbound Lane 8-16-67

SHEET 7 OF 10 AUGUSTA, MAINE APRIL 1966

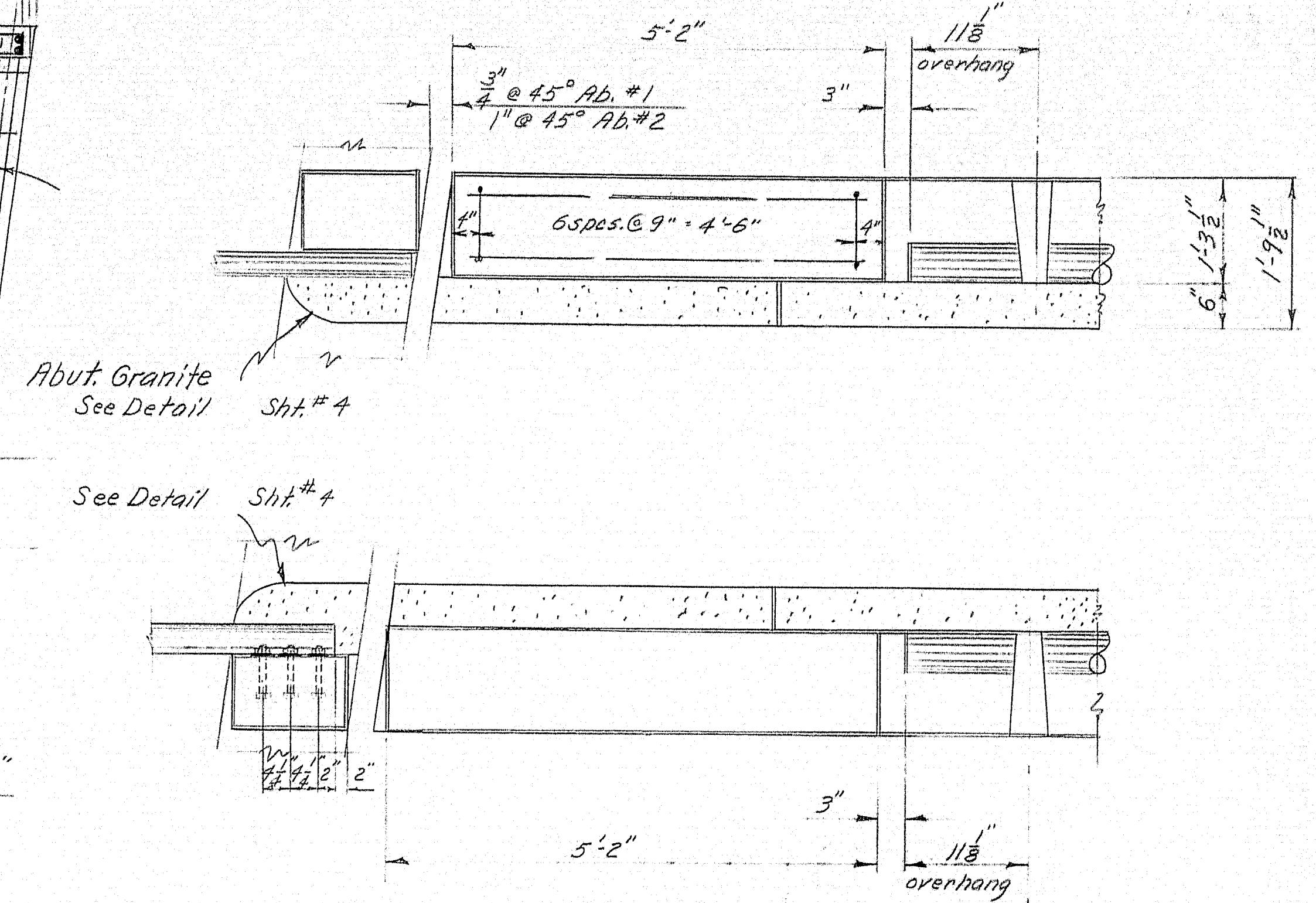




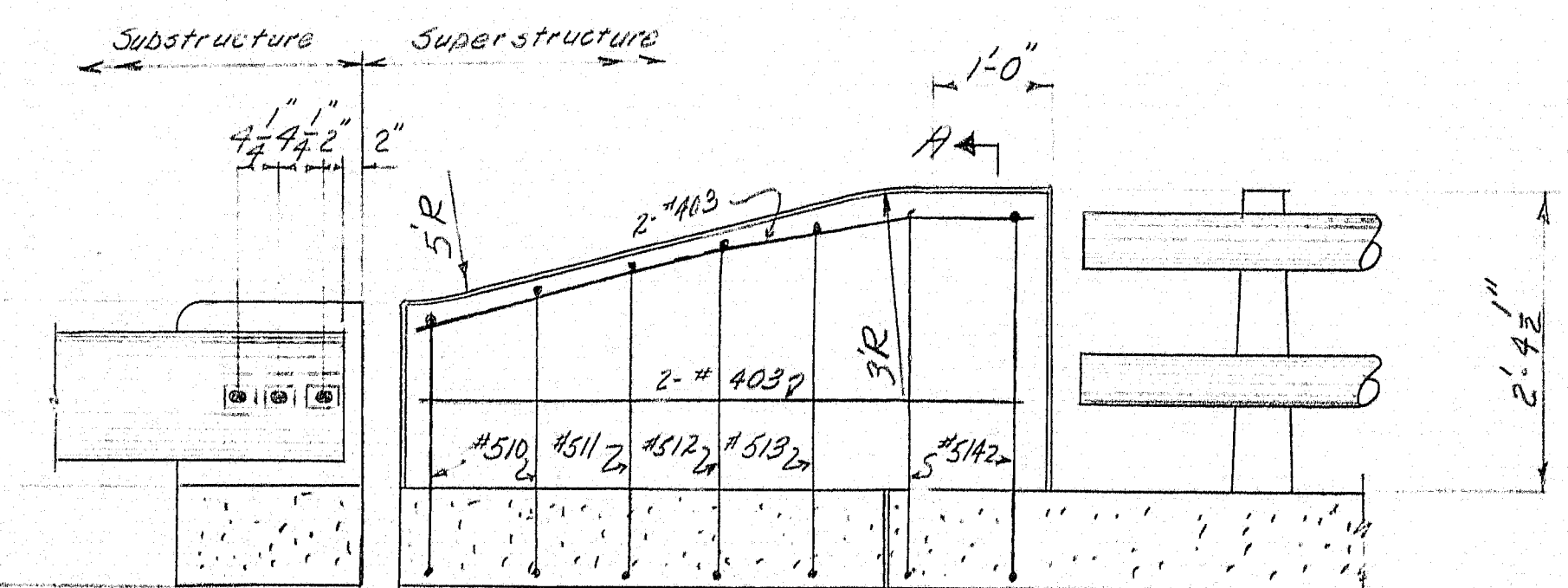
SUPERSTRUCTURE
NORTHBOUND and SOUTHBOUND



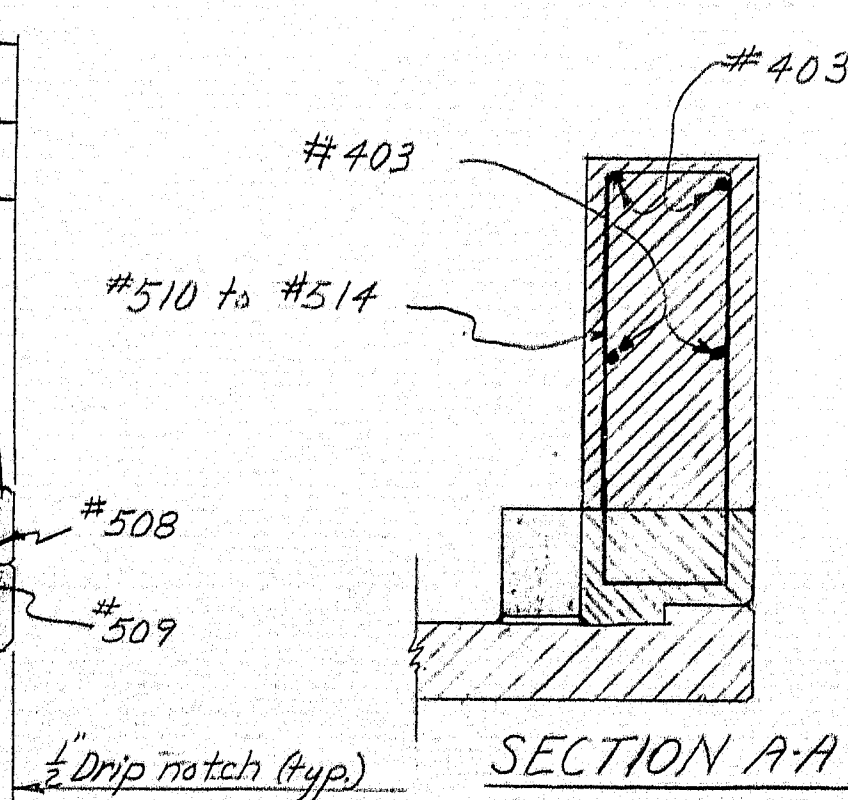
TRANSVERSE SECTION WITH TRAFFIC



PLAN



END POST DETAIL

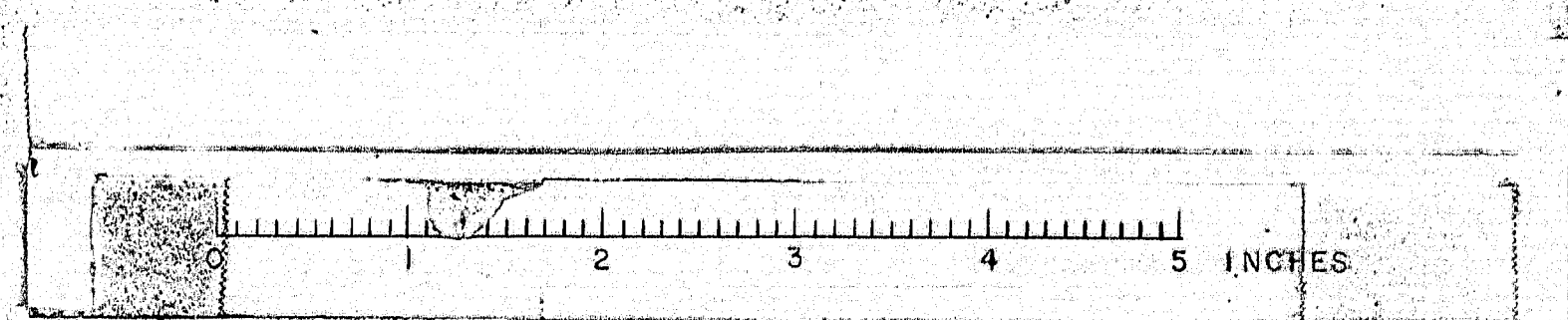


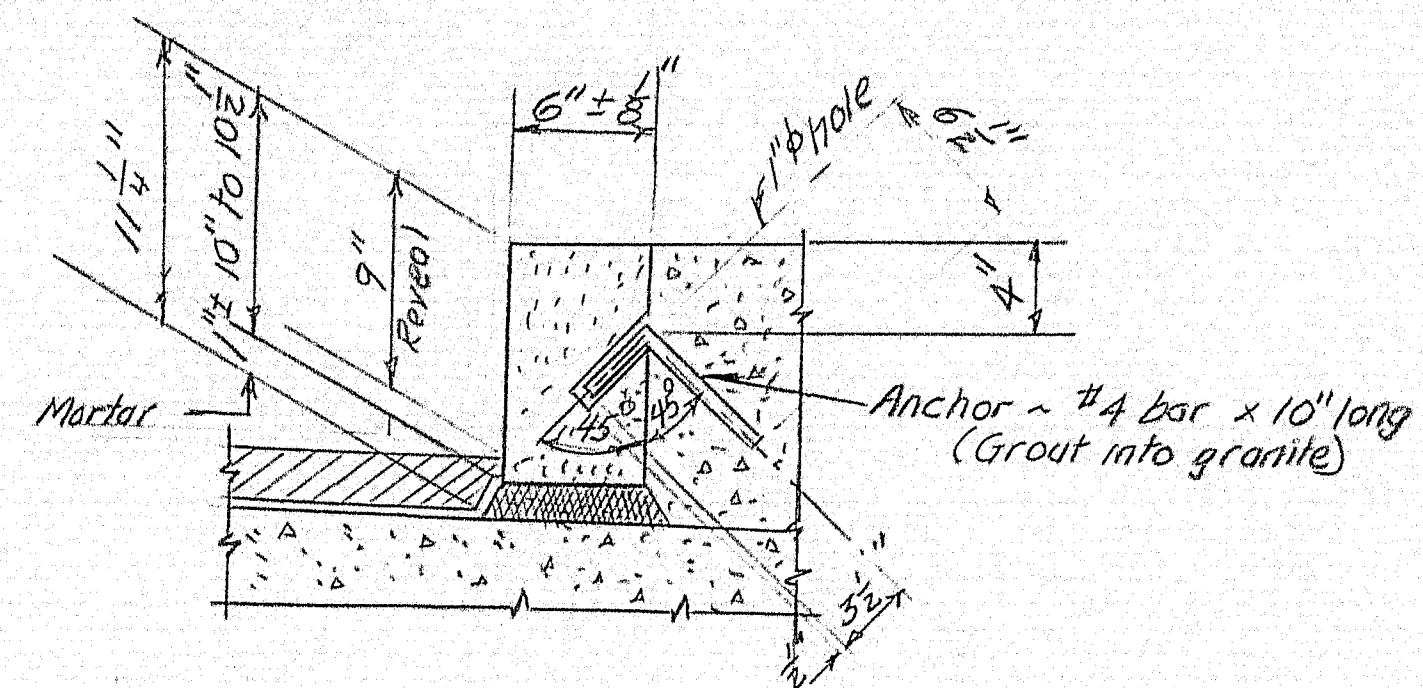
SECTION A-A

Concrete in superstructure and post to be paid for under Item 502.26 Structural Concrete. See Sh #4 for details of substructure and post.

DESIGN - B.M.W. TRACE - S. DET. - E.V.S. CHECK - S. & S. & S.	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
INTERSTATE 95	
OVER	
ROUTE 158	
IN THE TOWN OF	
SHERMAN	
AROOSTOOK COUNTY	
SUPERSTRUCTURE	
SHEET 8 OF 10	AUGUSTA, MAINE
APRIL 1966	

M-2525





GRANITE CURB SECTION

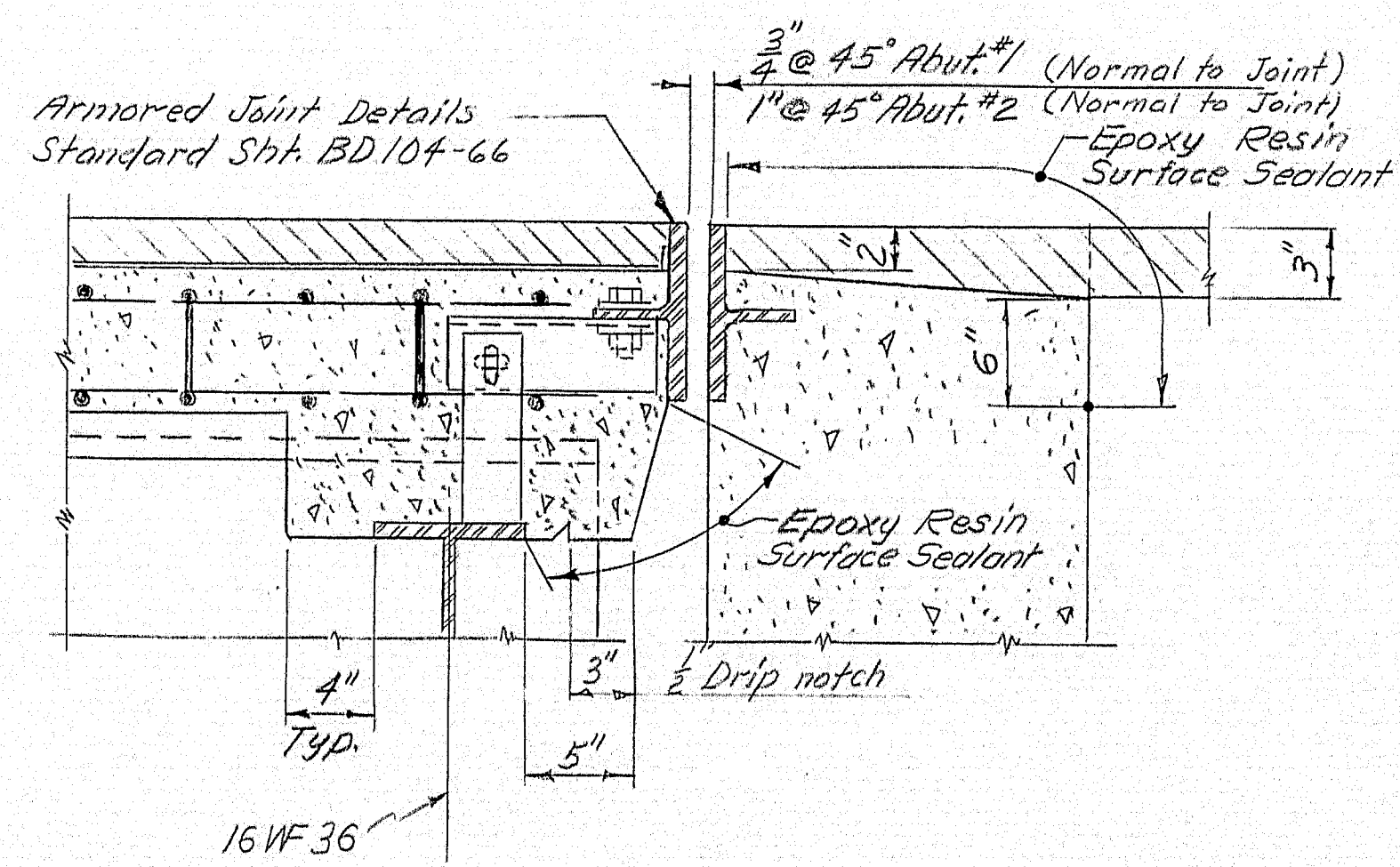
SUPERSTRUCTURE NOTES

All reinforcing to be 2" clear unless otherwise noted.

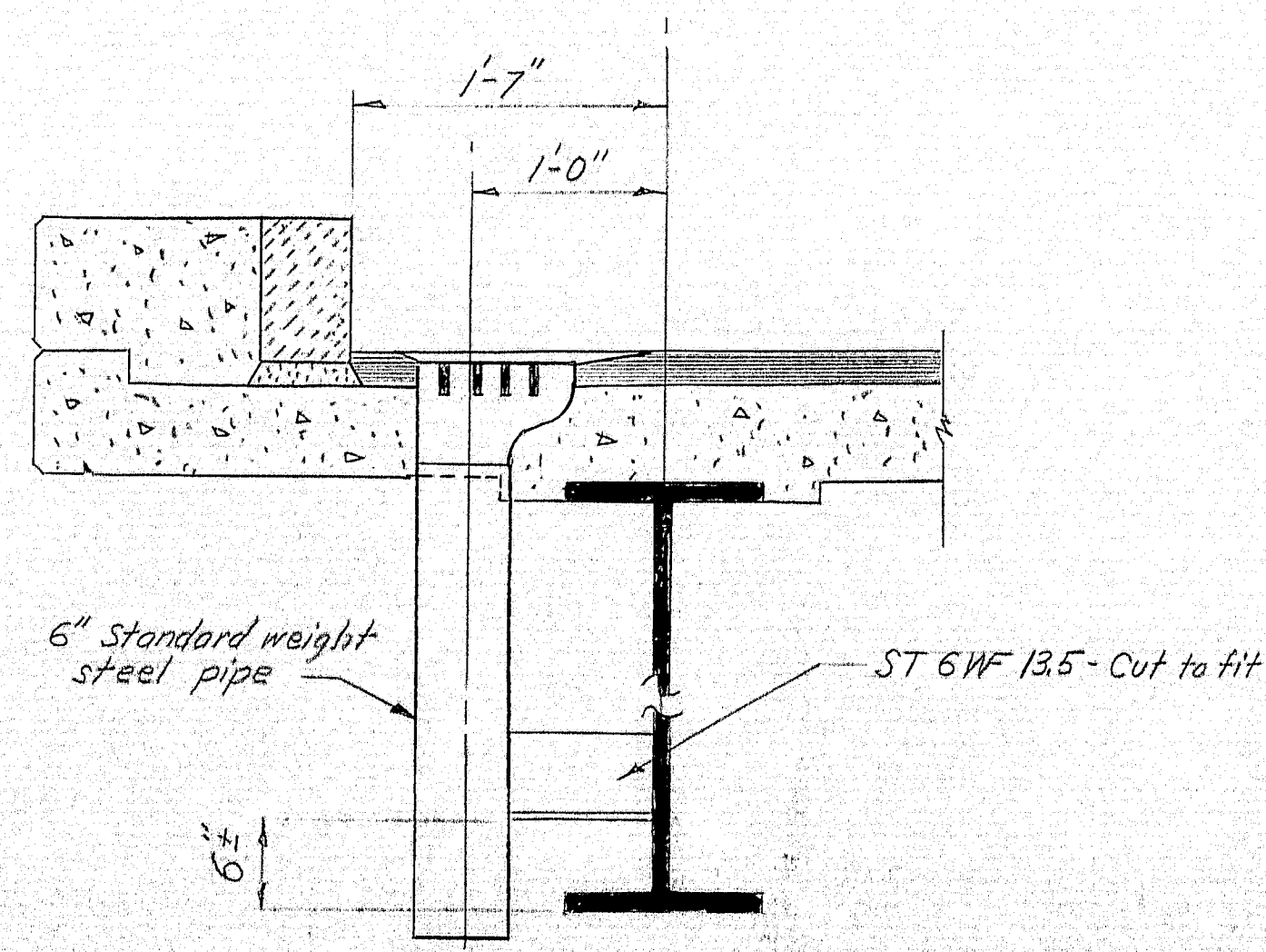
Form a 1" V-groove on outside face of curb and slab at each contraction joint.

Reinforcing steel should not extend thru contraction joint in concrete curb.

Break the bond between concrete surfaces at contraction joints by coating contact areas with a suitable grade of asphalt paint.



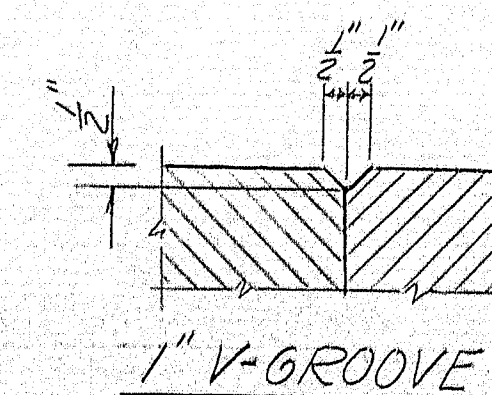
SECTION AT ABUTS.



DRAIN DETAIL

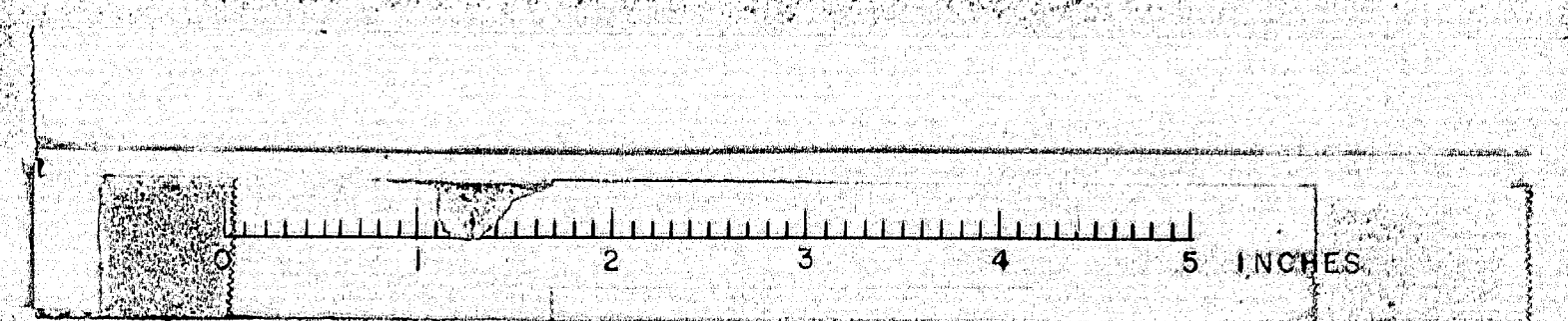
8 REQUIRED

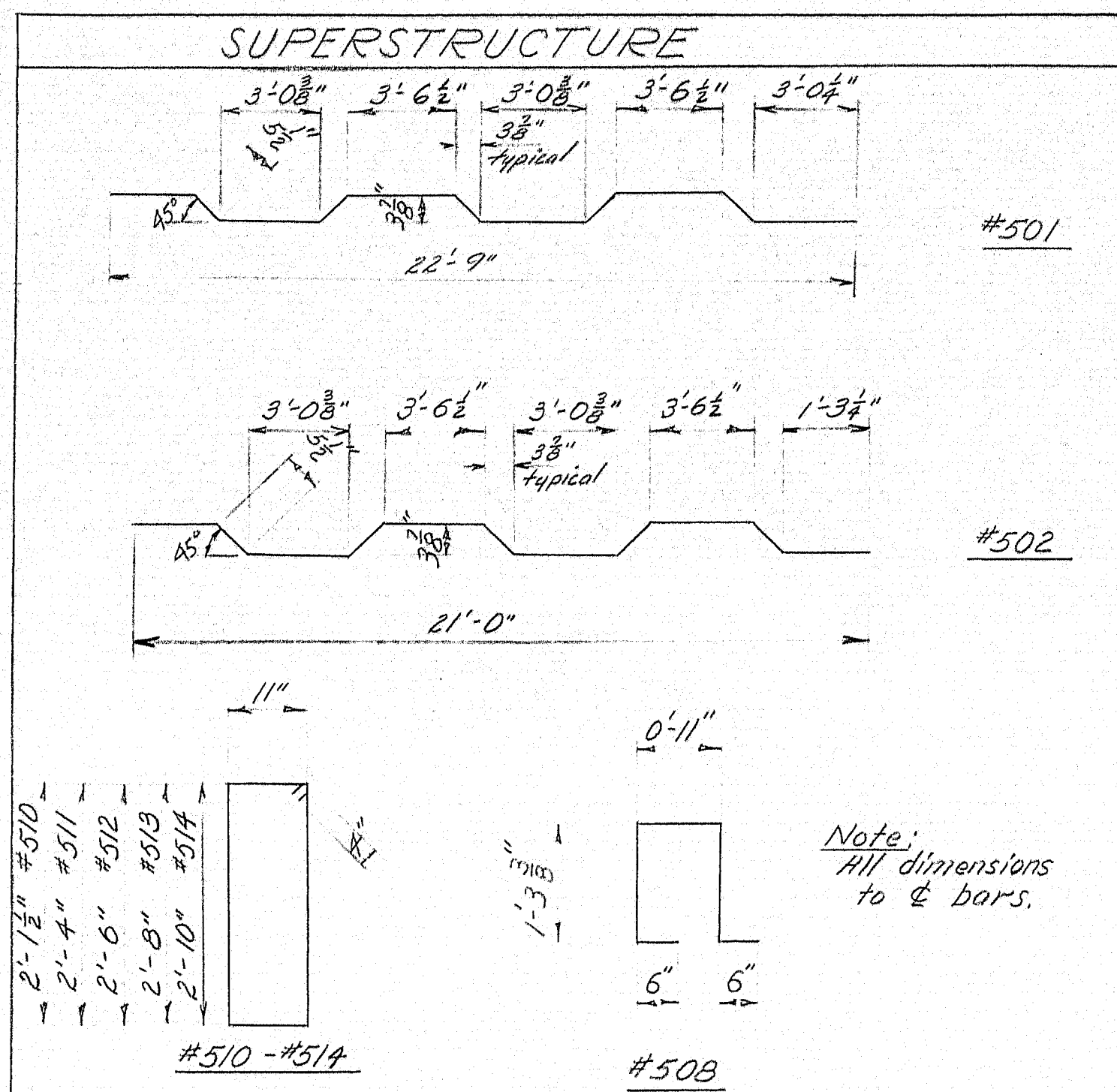
NOTE: For Fabrication & welding detail, see Standard Sheet BD 104-66.



DESIGN - PMW TRACE & DET. - E.V.S. CHECK - U. CHANDLER	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
INTERSTATE 95 OVER	
ROUTE 158 IN THE TOWN OF	
SHERMAN	
AROOSTOOK COUNTY	
SUPERSTRUCTURE DETAILS	
SHEET 9 OF 10	AUGUSTA, MAINE APRIL 1966

M-2526



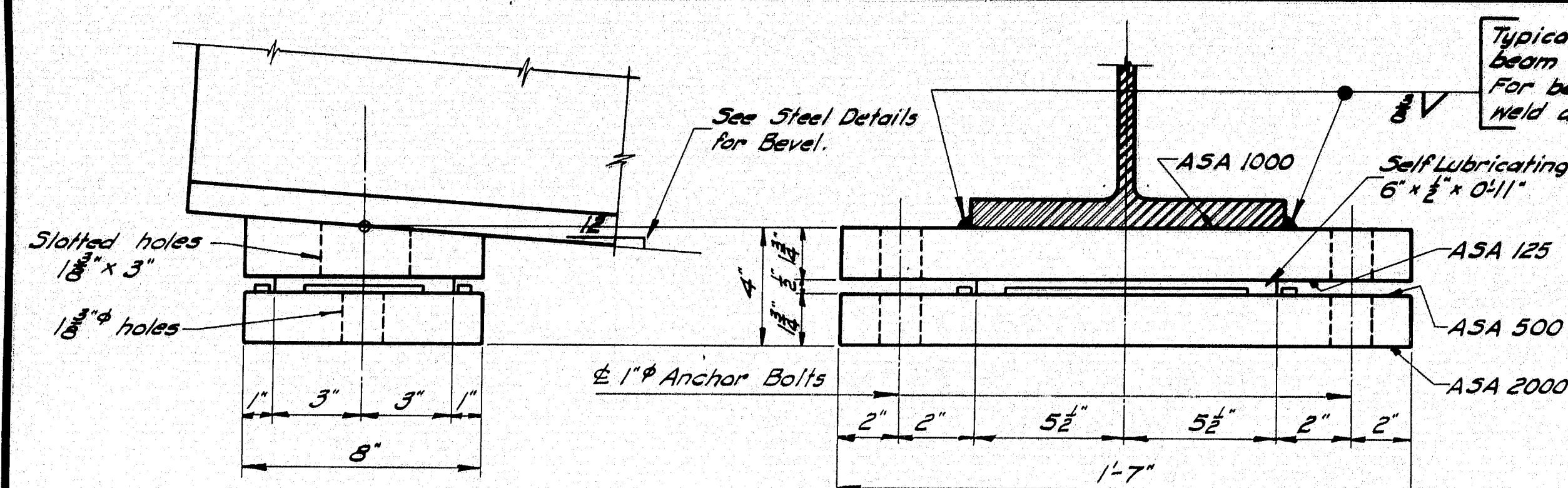


BENT BARS				
DESIG.	SIZE	NO.	LENGTH	LOCATION
#501	#5	202	23'-6"	Slab Transverse
#502	#5	202	21'-9"	" "
#508	#5	408	4'-6"	Curb Stirrups
#510	#5	16	6'-9"	End Post Stirrups
#511	#5	8	7'-2"	" " "
#512	#5	8	7'-6"	" " "
#513	#5	8	7'-10"	" " "
#514	#5	16	8'-2"	" " "

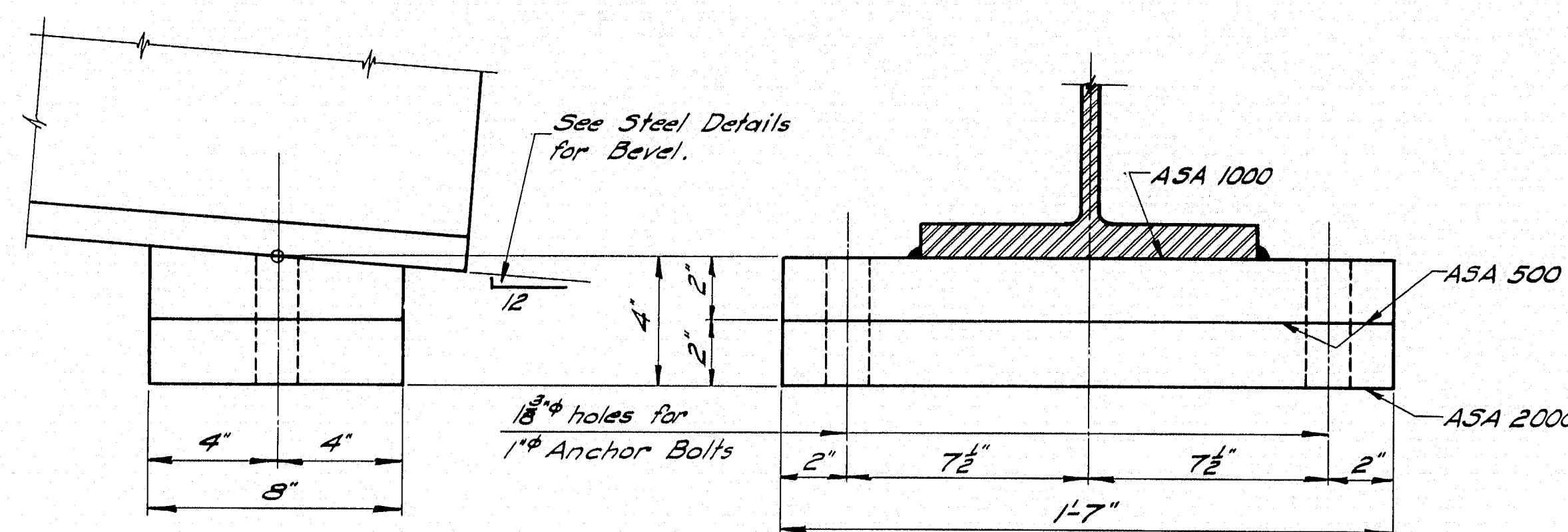
STRAIGHT BARS				
DESIG.	SIZE	NO.	LENGTH	LOCATION
#401	#4	136	30'-0"	Slab Longitudinal Top
#402	#4	68	35'-7"	" " "
#403	#4	32	4'-10"	End posts horizontal
#503	#5	204	18'-3"	Slab transverse Bottom
#504	#5	204	25'-5"	" " "
#505	#5	408	21'-10"	" " Top
#506	#5	164	30'-0"	" Longitudinal Bottom
#507	#5	82	35'-7"	" " "
#509	#5	40	18'-5"	Curb Longitudinal

E.V.S.
J.C.

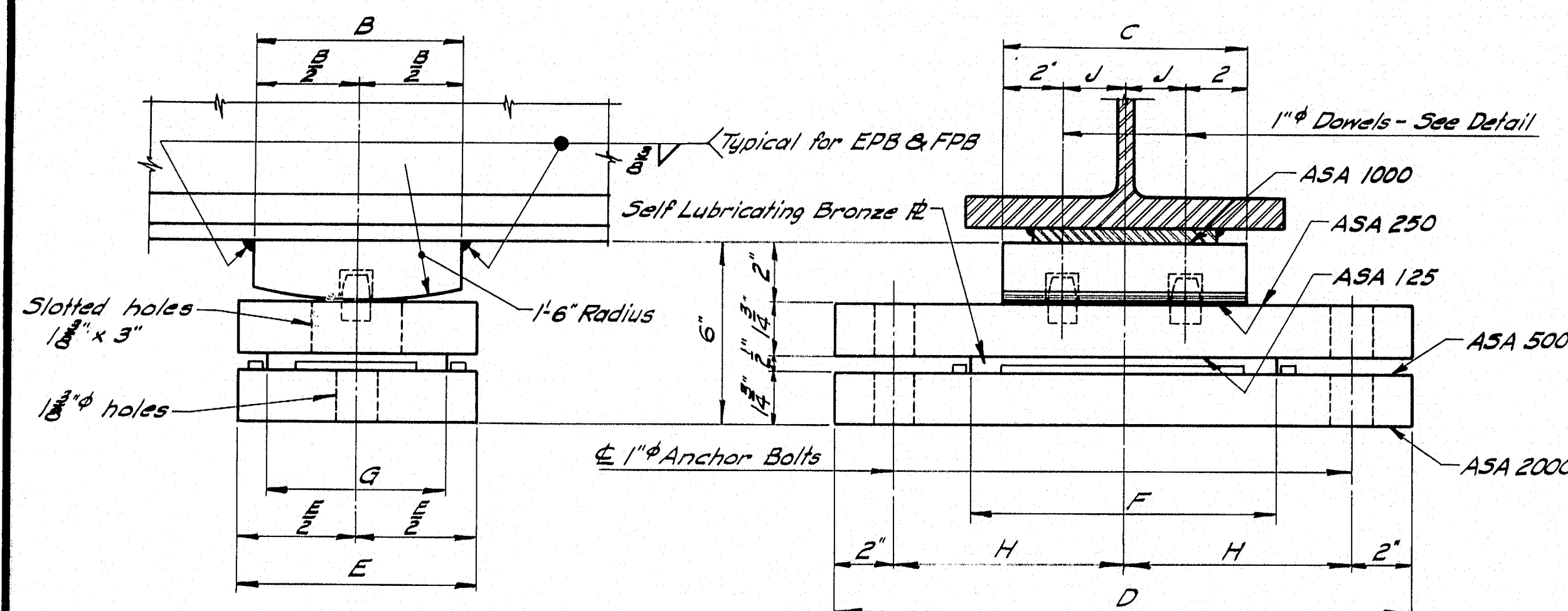
ABUTMENTS									
BENT BARS					STRAIGHT BARS				
MARK	SIZE	LENGTH	ABUTMENT NO.	ABUTMENT NO.	ABUTMENT NO.	ABUTMENT NO.	TOTAL	REMARKS	
A6	#5	3'-0"	1	1	1	1	4	Breastwall	
A8	#5	3'-0"	1	1	1	1	4	Breastwall	
A17	#5	3'-0"	1	1	1	1	4	Bearing Pad	
A18	#5	3'-0"	1	1	1	1	4	Bearing Pad	
A19	#5	3'-0"	1	1	1	1	4	Backwall to Approach Slab	
A20	#5	3'-0"	1	1	1	1	4	Backwall	
A21	#5	3'-0"	1	1	1	1	4	Backwall	
A23	#5	3'-0"	1	1	1	1	4	Substructure Post	
W2	#5	3'-0"	1	1	1	1	4	Wing Footing	
W3	#5	3'-0"	1	1	1	1	4	Wing Footing	
W10	#5	3'-0"	1	1	1	1	4	Wing Wall	
W12	#5	3'-0"	1	1	1	1	4	Wing Wall	
W13	#5	3'-0"	1	1	1	1	4	Wing Wall	
W57	#5	3'-0"	1	1	1	1	4	Wing Wall	
W58	#5	3'-0"	1	1	1	1	4	Wing Wall	
STRAIGHT BARS									
A1	#5	38'-0"	6	7	6	6	25	Breastwall	
A2	#5	16'-0"	1	1	1	1	2	Breastwall	
A3	#5	8'-0"	1	1	1	1	2	Breastwall	
A4	#5	26'-0"	1	1	1	1	1	Breastwall	
A5	#5	21'-6"	1	1	1	1	1	Breastwall	
A7	#5	2'-6"	57	52	63	78	230	Breastwall & Backwall	
A9	#5	5'-6"	5	18	15	12	39	Breastwall	
A10	#5	5'-6"	5	18	15	12	39	Breastwall	
A11	#5	5'-0"	16	8	15	12	30	Breastwall	
A12	#5	4'-8"	6	6	6	6	12	Breastwall	
A13	#5	10'-6"	6	6	6	6	12	Breastwall	
A14	#5	6'-8"	64	64	64	64	256	Backwall	
A15	#5	4'-10"	8	8	8	8	32	Backwall	
A16	#5	38'-0"	8	8	8	8	32	Backwall	
A22	#5	3'-0"	8	8	8	8	32	Substructure Post	
W1	#5	8'-2"	20	20	20	20	80	Wing Wall	
W4	#5	2'-9"	4	4	4	4	16	Wing Wall	
W5	#5	3'-3"	4	4	4	4	16	Wing Wall	
W6	#5	3'-10"	4	4	4	4	16	Wing Wall	
W7	#5	4'-4"	8	8	8	8	32	Wing Wall	
W8	#5	4'-10"	4	4	4	4	16	Wing Wall	
W9	#5	5'-5"	4	4	4	4	16	Wing Wall	
W11	#5	8'-7"	4	4	4	4	16	Wing Wall	
W14	#5	5'-8"	2	2	2	2	8	Wing Wall	
W17	#5	11'-0"	8	10	12	14	44	Wing Footing & Wing Wall	
W19	#5	8'-6"	2	2	2	2	8	Wing Wall	
W20	#5	4'-8"	2	2	2	2	8	Wing Wall	
W21	#5	12'-0"	2	2	2	2	8	Wing Wall	
W22	#5	3'-5"	2	2	2	2	8	Wing Wall	
W23	#5	3'-11"	2	2	2	2	8	Wing Wall	
W24	#5	4'-6"	2	2	2	2	8	Wing Wall	
W25	#5	5'-0"	2	2	2	2	8	Wing Wall	
W26	#5	5'-6"	2	2	2	2	8	Wing Wall	
W27	#5	6'-1"	2	2	2	2	8	Wing Wall	
W28	#5	6'-7"	2	2	2	2	8	Wing Wall	
W29	#5	7'-4"	2	2	2	2	8	Wing Wall	
W30	#5	7'-3"	1	1	1	1	4	Wing Wall	
W31	#5	7'-9"	1	1	1	1	4	Wing Wall	
W32	#5	7'-3"	2	2	2	2	8	Wing Wall	
W33	#5	7'-7"	2	2	2	2	8	Wing Wall	
W34	#5	8'-0"	2	2	2	2	8	Wing Wall	
W35	#5	8'-8"	2	2	2	2	8	Wing Wall	
W36	#5	8'-2"	2	2	2	2	8	Wing Wall	
W37	#5	8'-9"	2	2	2	2	8	Wing Wall	
W38	#5	9'-0"	2	2	2	2	8	Wing Wall	
W39	#5	9'-4"	2	2	2	2	8	Wing Wall	
W40	#5	9'-9"	2	2	2	2	8	Wing Wall	
W41	#5	8'-7"	2	2	2	2	8	Wing Wall	
W42	#5	8'-0"	2	2	2	2	8	Wing Wall	
W43	#5	9'-3"	2	2	2	2	8	Wing Wall	
W44	#5	9'-7"	2	2	2	2	8	Wing Wall	
W45	#5	10'-0"	2	2	2	2	8	Wing Wall	
W46	#5	10'-8"	2	2	2	2	8	Wing Wall	
W47	#5	11'-0"	2	2	2	2	8	Wing Wall	
W48	#5	11'-4"	2	2	2	2	8	Wing Wall	
W49	#5	12'-8"	3	3	3	3	12	Wing Wall	
W50	#5	12'-6"	2	2	2	2	8	Wing Wall	
W51	#5	10'-9"	2	2	2	2	8	Wing Wall	
W52	#5	6'-5"	2	2	2	2	8	Wing Wall	
W53	#5	18'-0"	2	2	2	2	8	Wing Wall	
W54	#5	7'-8"	2	2	2	2	8	Wing Wall	
W55	#5	2'-1"	2	2	2	2	8	Wing Wall	
W56	#5	2'-7"	2	2	2	2	8	Wing Wall	
W57	#5	3'-2"	2	2	2	2	8	Wing Wall	
W58	#5	3'-8"	2	2	2	2	8	Wing Wall	
W59	#5	4'-2"	2	2	2	2	8	Wing Wall	
W60	#5	4'-9"	2	2	2	2	8	Wing Wall	
W61	#5	5'-3"	2	2	2	2	8	Wing Wall	
W62	#5	5'-9"	2	2	2	2	8	Wing Wall	
W63	#5	3'-6"	2	2	2	2	8	Wing Wall	
W64	#5	5'-4"	1	1	1	1	4	Wing Wall	
A1	#6	14'-9"	152	152	152	152	608	Approach Slab	
A2	#6	38'-0"	20	20	20	20	80	Approach Slab	



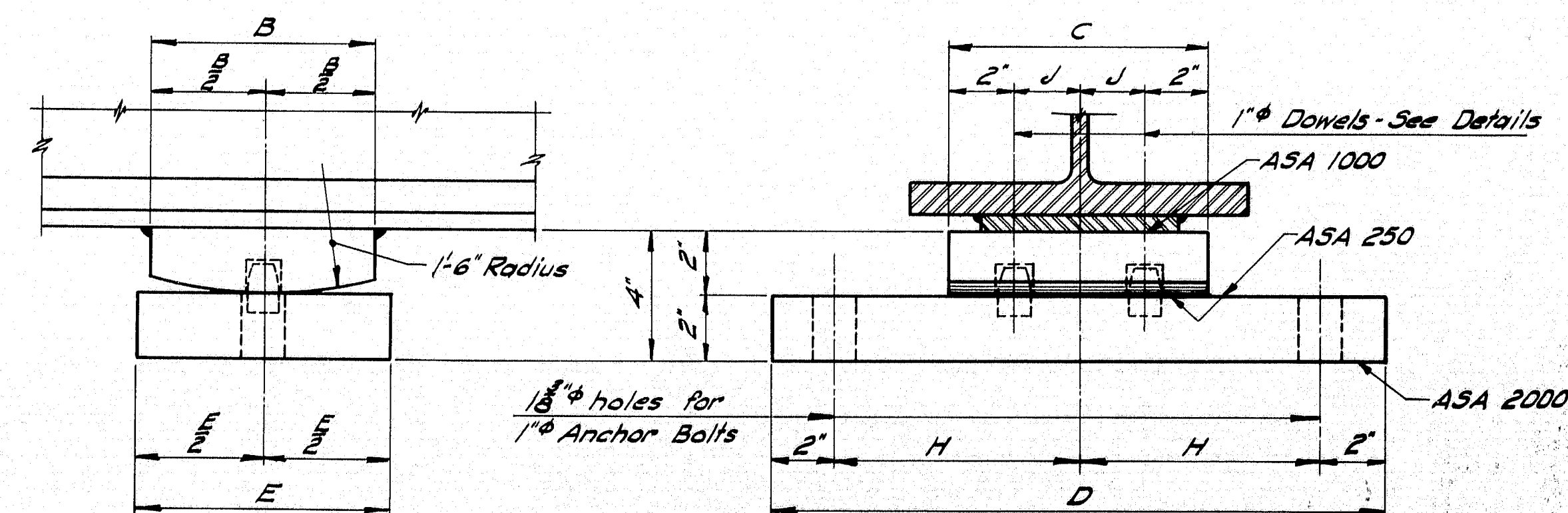
EXPANSION PEDESTAL - EPA



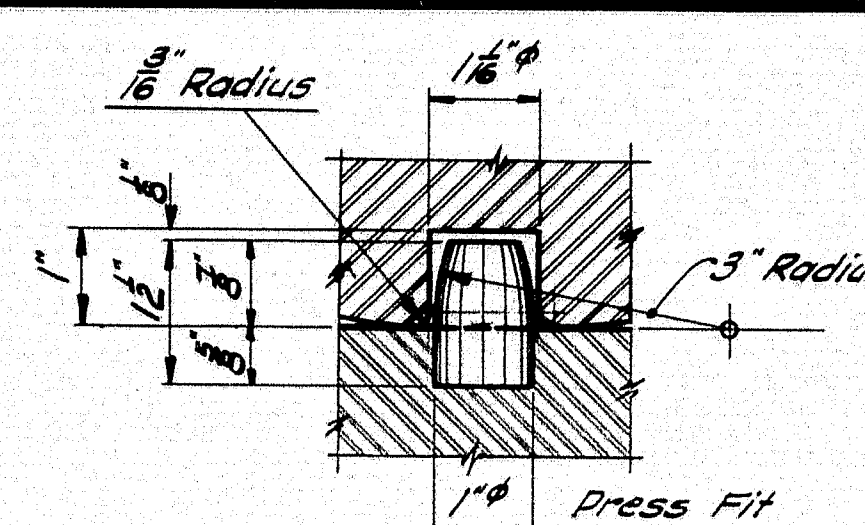
FIXED PEDESTAL - FPA



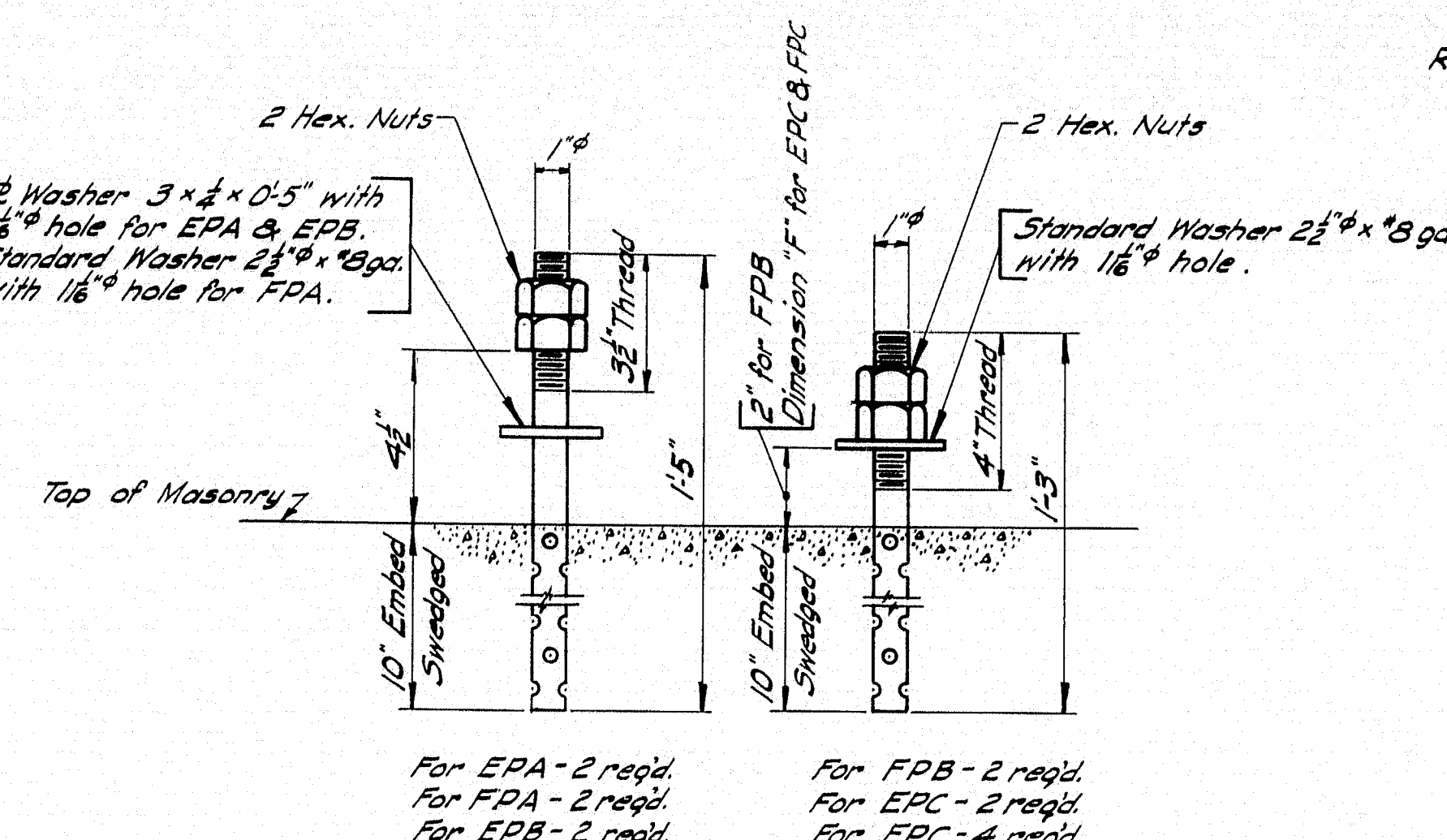
EXPANSION PEDESTAL - EPB



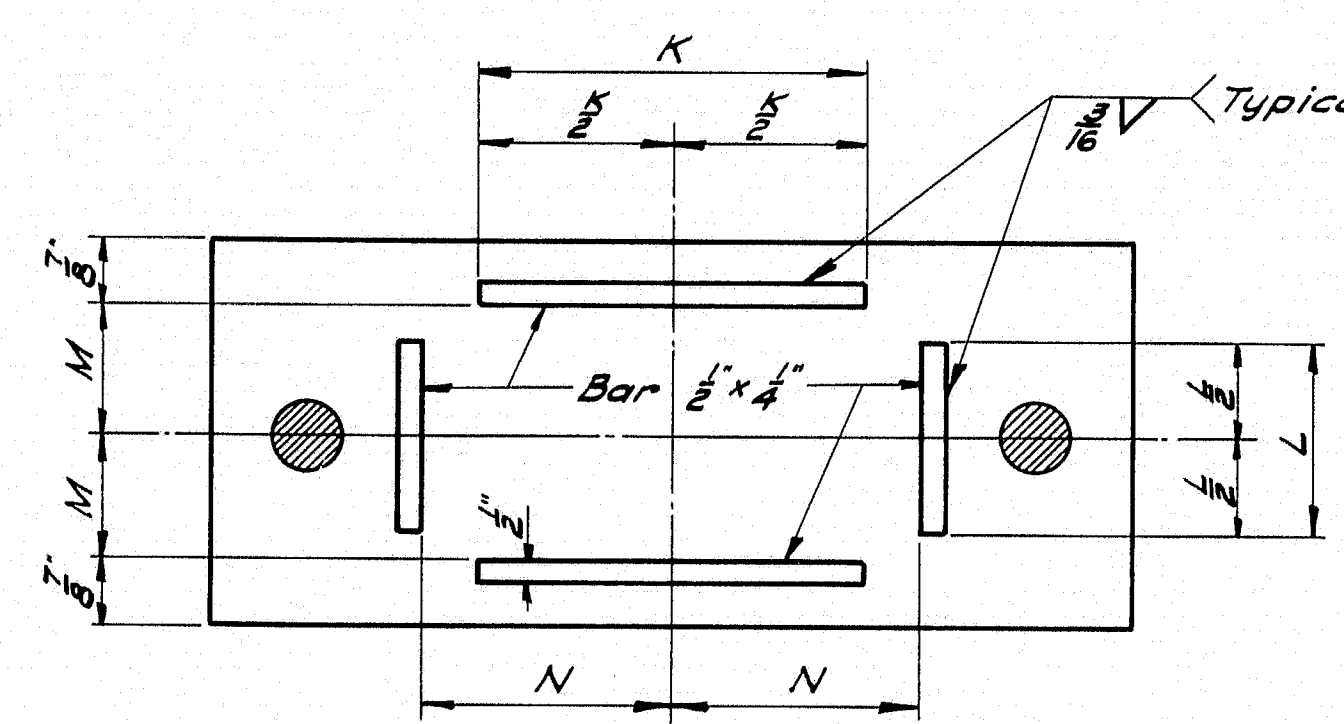
FIXED PEDESTAL - FPB



DOWEL DETAIL

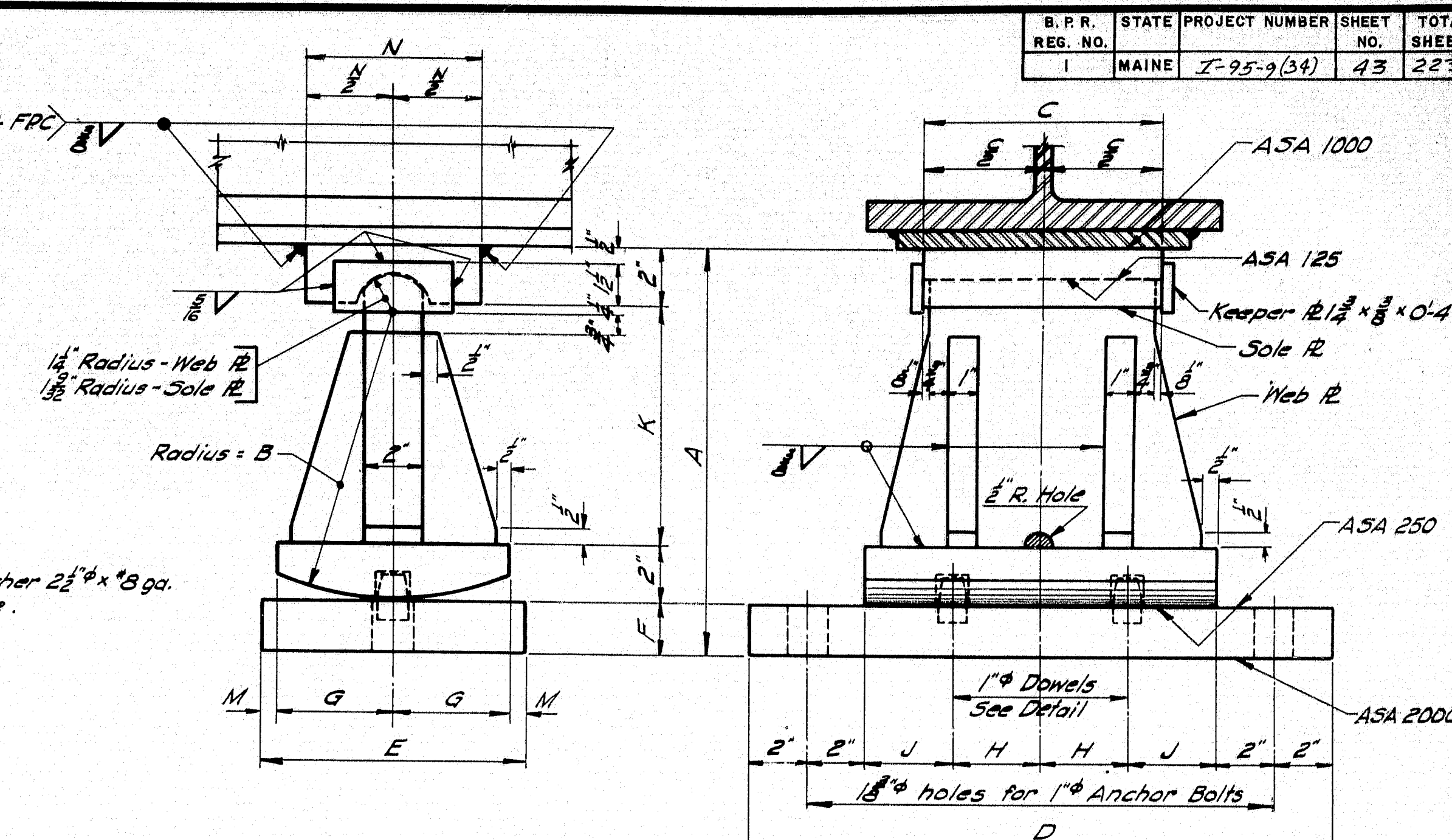


ANCHOR BOLT DETAIL

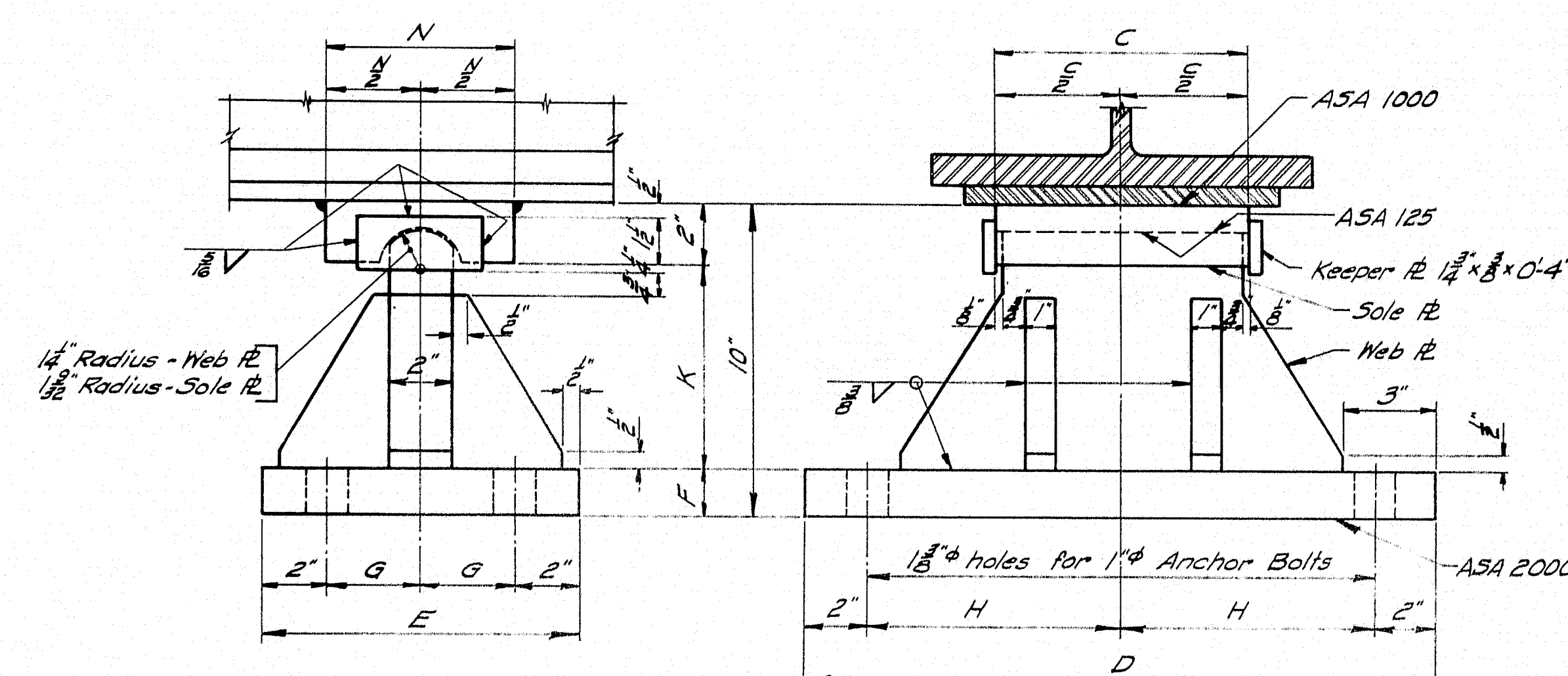


MASONRY PLATE

PEDESTALS - ALLOWABLE LOADS & DIMENSIONS													
Pedestal	Load	A	B	C	D	E	F	G	H	J	K	L	M
EPA	132K	-	-	-	-	-	-	-	-	8"	4"	3 1/2"	5 1/2"
FPA	150K	-	-	-	-	-	-	-	-	-	-	-	-
EPB-1	120K	-	6"	8"	1-7"	8"	10"	6"	7 1/2"	2"	8"	4"	3 1/2"
EPB-2	165K	-	7"	10"	1-8"	9"	1-0"	7"	8"	3"	10"	5"	3 1/2"
EPB-3	224K	-	8"	1-1"	2-0"	10"	1-4"	7"	10"	4 1/2"	1-2"	5"	3 1/2"
FPB-1	120K	-	6"	8"	1-7"	8"	-	-	7 1/2"	2"	-	-	-
FPB-2	165K	-	7"	10"	1-8"	9"	-	-	8"	3"	-	-	-
FPB-3	224K	-	8"	1-2"	2-0"	10"	-	-	10"	5"	-	-	-
EPC-1	70K	9 1/2"	6"	8"	1-8"	8"	1 1/2"	3 1/2"	3"	3"	4 1/2"	-	6"
EPC-2	100K	11 1/2"	8"	8"	1-8"	8"	1 1/2"	3 1/2"	3"	3"	6 1/2"	-	6"
EPC-3	130K	1-2"	10"	8"	1-8"	9"	1 1/2"	4"	3"	3"	8 1/2"	-	7"
EPC-4	160K	1-2"	10"	8"	1-10"	9"	1 1/2"	4"	4"	3"	8 1/2"	-	7"
EPC-5	190K	1-2 1/2"	10"	9"	2-0"	10"	2"	4 1/2"	5"	3"	8 1/2"	-	8"
EPC-6	220K	1-4 1/2"	10"	10"	2-0"	10"	2 1/2"	5"	5"	3"	10 1/2"	-	8"
EPC-7	250K	1-4 1/2"	10"	10"	2-2"	10"	2 1/2"	5"	5"	4"	10 1/2"	-	8"
FPC-1	100K	-	-	8"	1-8"	9"	1 1/2"	2 1/2"	8"	-	6 1/2"	-	6"
FPC-2	160K	-	-	8"	1-8"	10"	1 1/2"	3"	8"	-	6 1/2"	-	7"
FPC-3	190K	-	-	9"	2-0"	10"	1 1/2"	3"	10"	-	6 1/2"	-	8"
FPC-4	220K	-	-	10"	2-0"	10"	1 1/2"	4"	10"	-	6 1/2"	-	8"
FPC-5	250K	-	-	10"	2-0"	10"	2"	4"	10"	-	6"	-	8"



EXPANSION PEDESTAL - EPC



FIXED PEDESTAL - FPC

NOTE: At the location of bearing pedestals the concrete bridge seats shall be dressed one inch larger all around than size of masonry plates and to exact elevations shown on the plans. If dressed areas are below the surface of the surrounding bridge seat a small channel shall be cut to the edge of the bridge seat for drainage where required by the Engineer. Channels shall have a min. width of 2" and min. slope of 1/8 inch per foot. No separate payment for this work will be made as it shall be considered incidental to contract items.

DESIGN SPECIFICATIONS

A.A.S.H.O., Standard Specifications for Highway Bridges, 1961, with Interim Specifications, 1961 & 1962

A.S.T.M. STEEL CLASSIFICATION

Anchor Bolts - A7, A36, or A307
All other - A36.

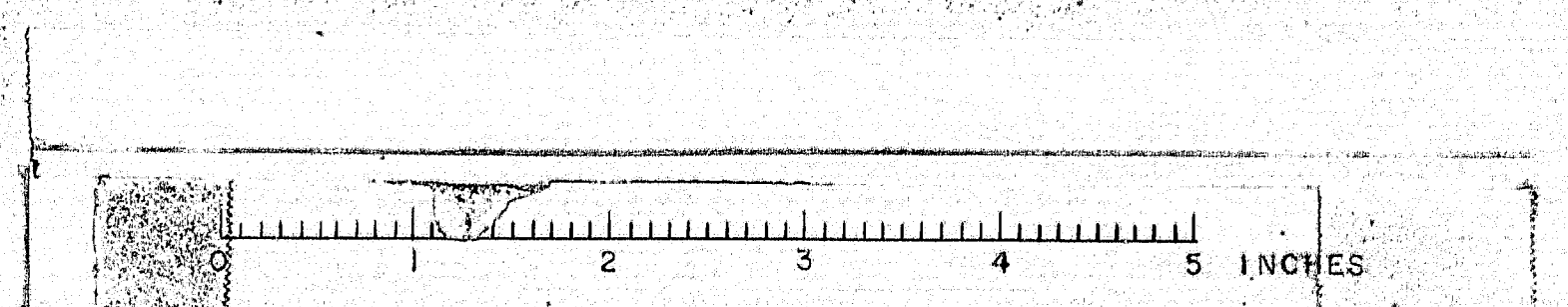
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

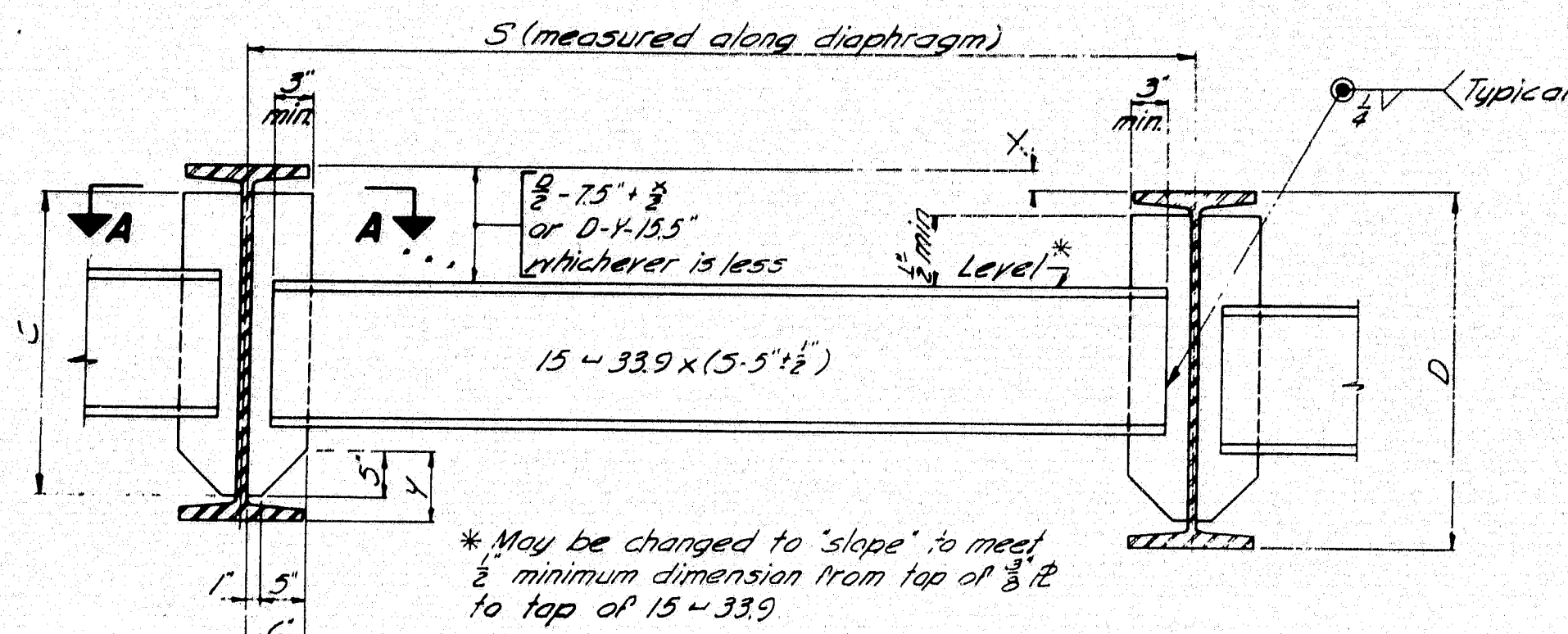
STANDARD DETAILS

(BD 101-64)

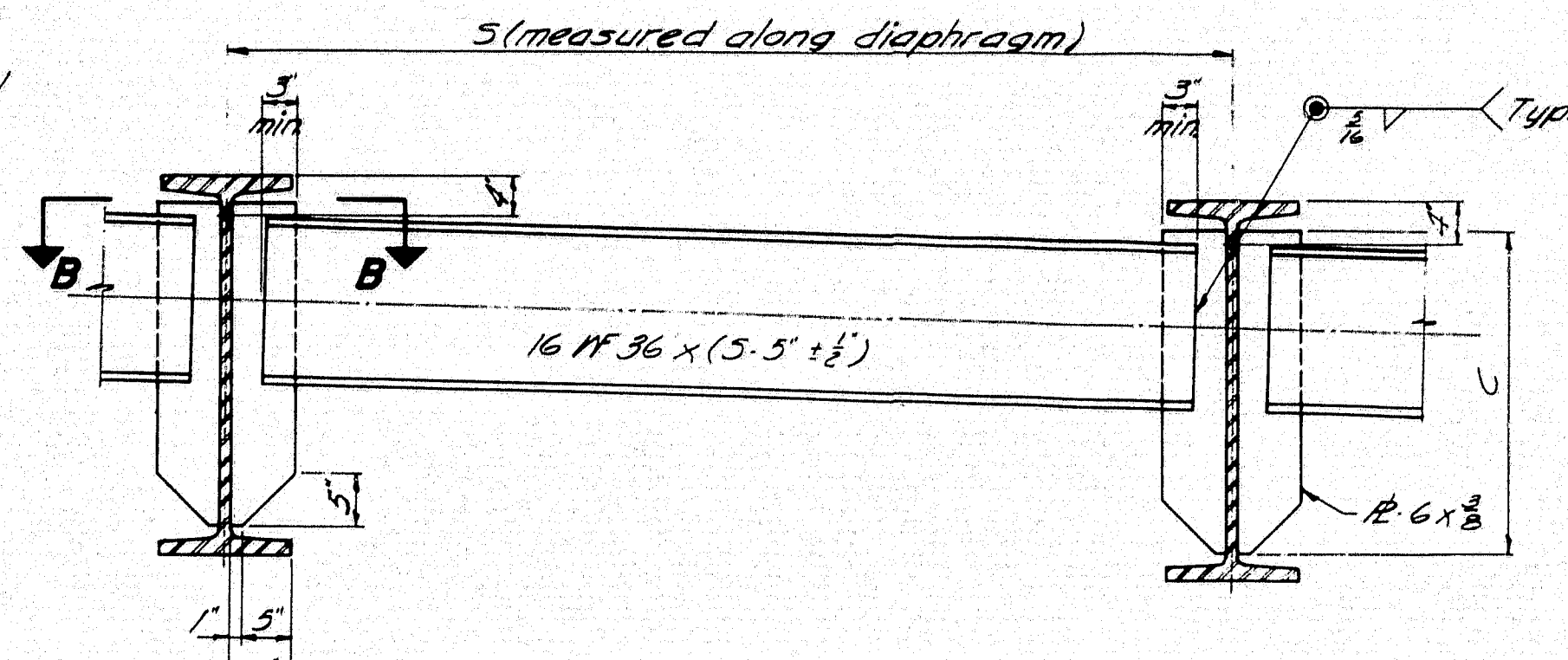
BEARING PEDESTALS

JANUARY, 1964

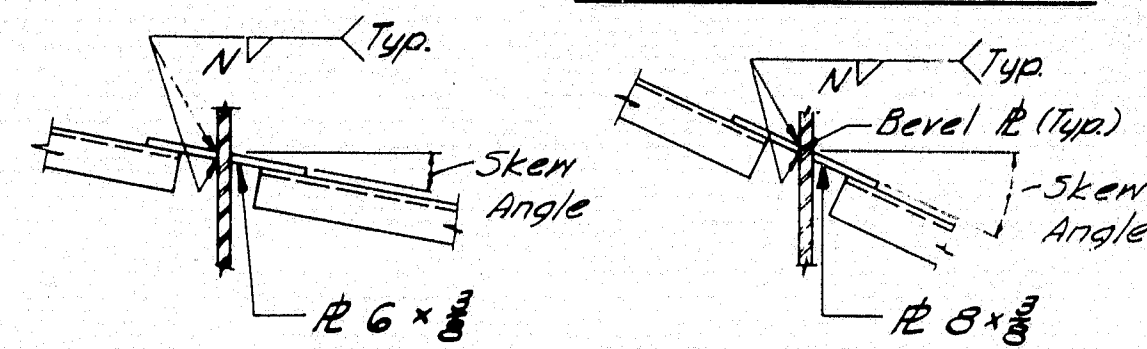




TYPE A DIAPHRAGM



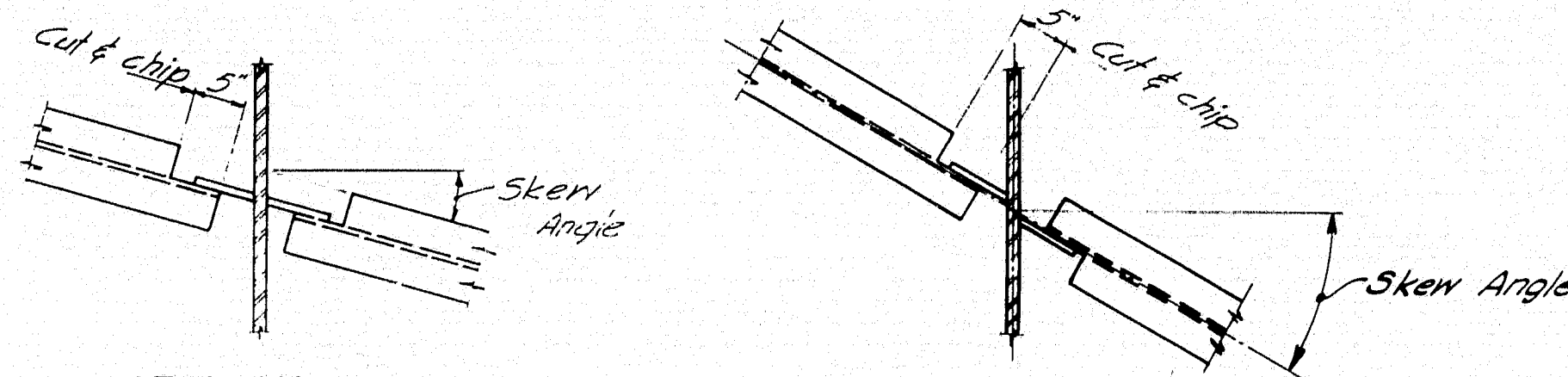
TYPE B DIAPHRAGM



SECTION A-A
Skew Angle 0° to 10°-00'

SECTION A-A
Skew Angle over 10°-00' to 20°-00'

FILLET WELD SIZE "N" & DIMENSION "C" FOR DIAPHRAGM PLATES		
BEAM	C	N
27 1/2" 84 to 114 incl.	1/4"	1/4"
30 1/2" 99 to 132 incl.	3/8"	3/8"
33 1/2" 118 to 152 incl.	1/2"	1/2"
36 1/2" 135 to 194 incl.	3/4"	3/4"
36 1/2" 230 to 300 incl.	1"	1"

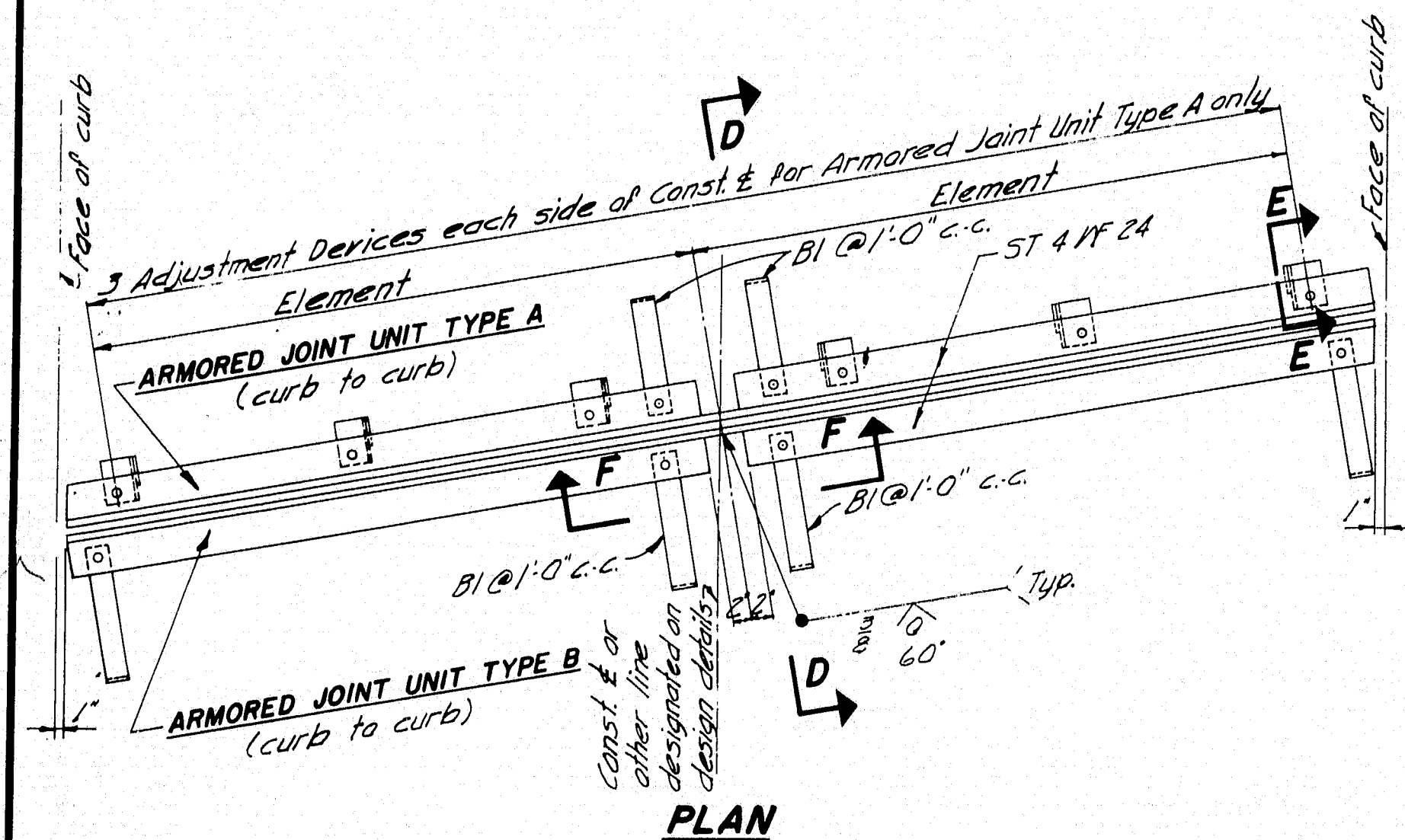


SECTION B-B
Skew Angle 0° to 10°-00'

SECTION B-B
Skew Angle over 10°-00'

NOTE
See design details for diaphragm type, location and skew.

DIAPHRAGMS

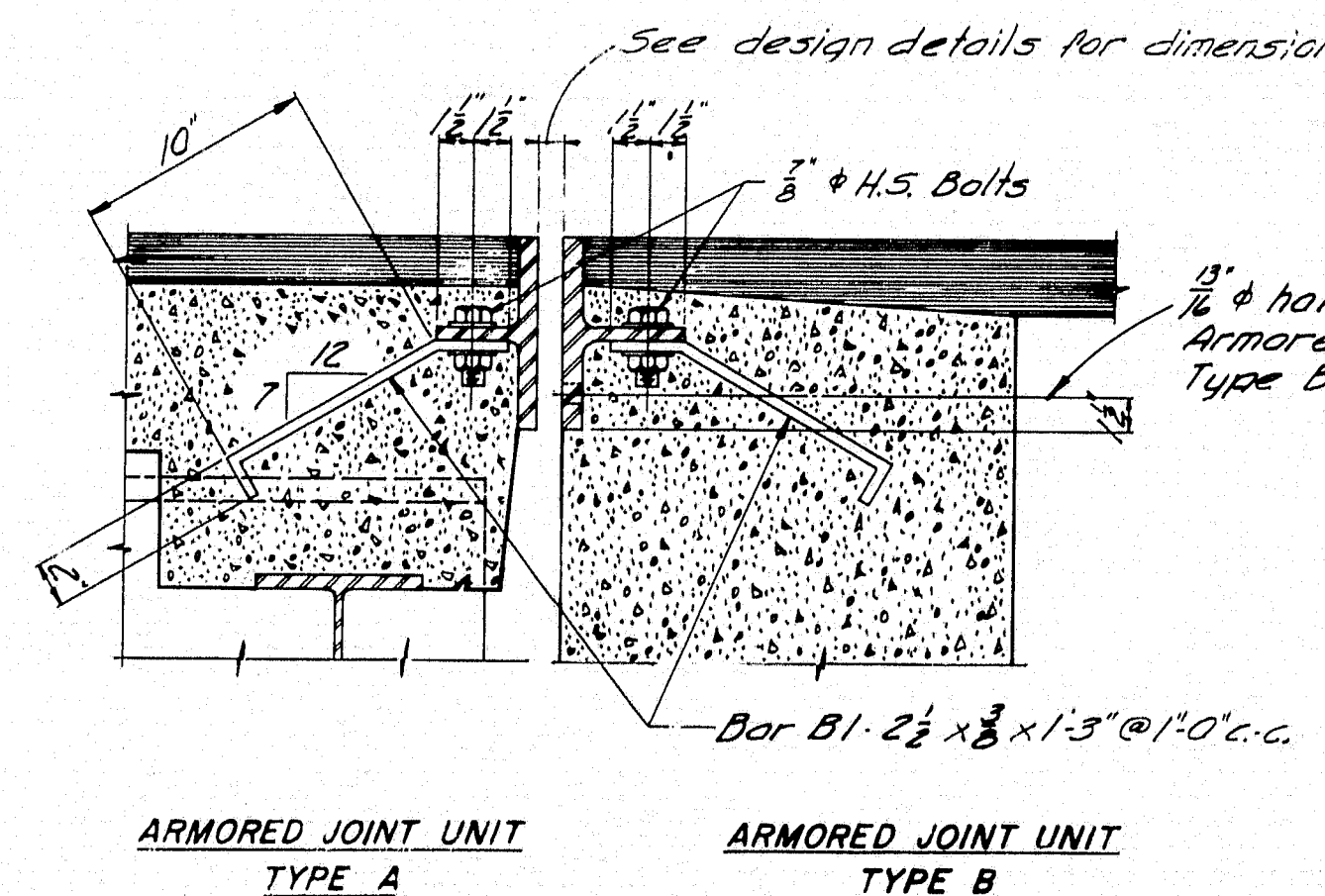


NOTE

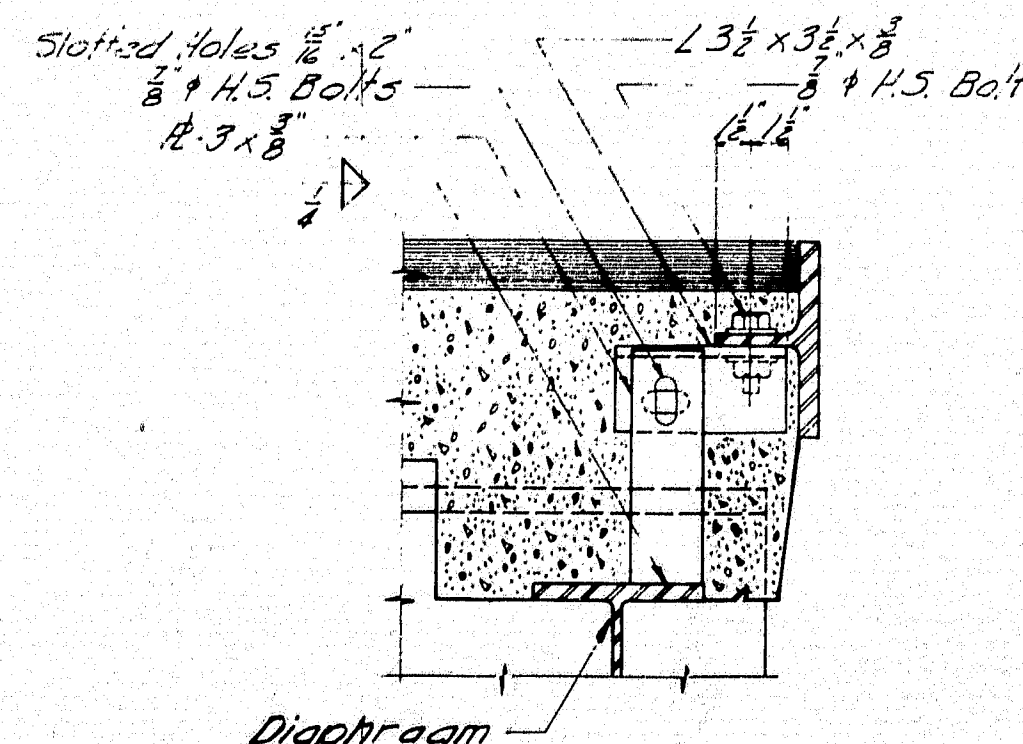
1. Type A Armored Joint Units are intended to be used for attachment to superstructures. Type B Armored Joint Units are intended to be used for attachment to abutments. At armored joints over piers, two (2) Type A Armored Joint Units shall be used.
2. If more elements than the two shown in the "Plan" are required by the design details, there shall be three adjustment devices for each element for Armored Joint Unit Type A and the elements of both units shall be field welded together in the same manner as shown in the "Plan".
3. Armored Joints to be paid for as Structural Steel.

ARMORED JOINT

An armored joint consists of two armored joint units. See note 1.



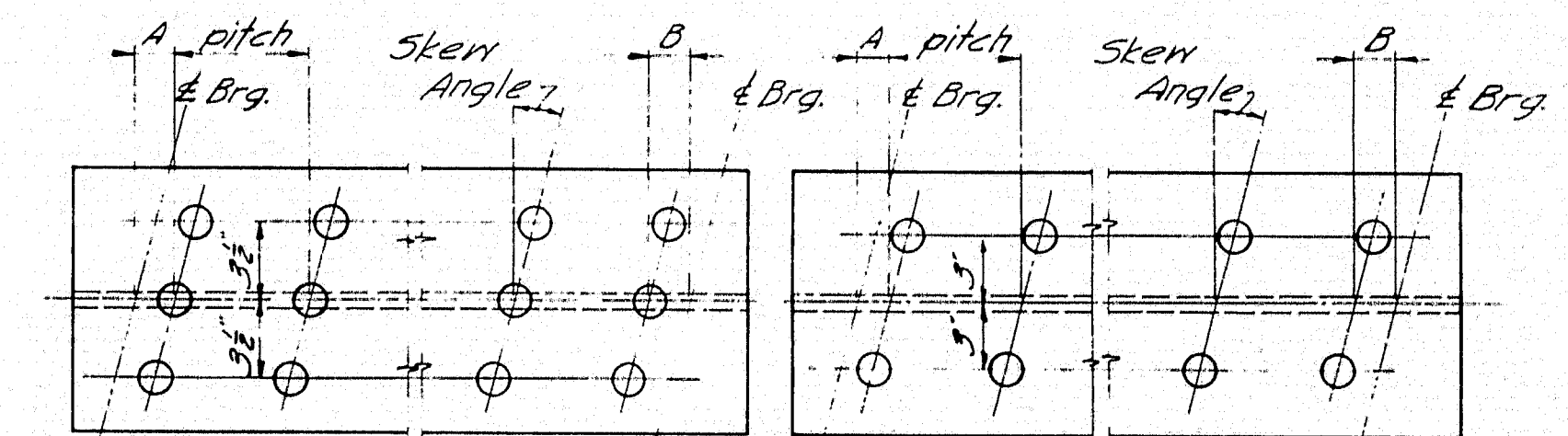
SECTION D-D



Shaving Adjustment Device Armored Joint Unit Type A only - After Unit is in final position weld 3/8" to angle with 1/2" fillet

SHEAR CONNECTOR NOTE

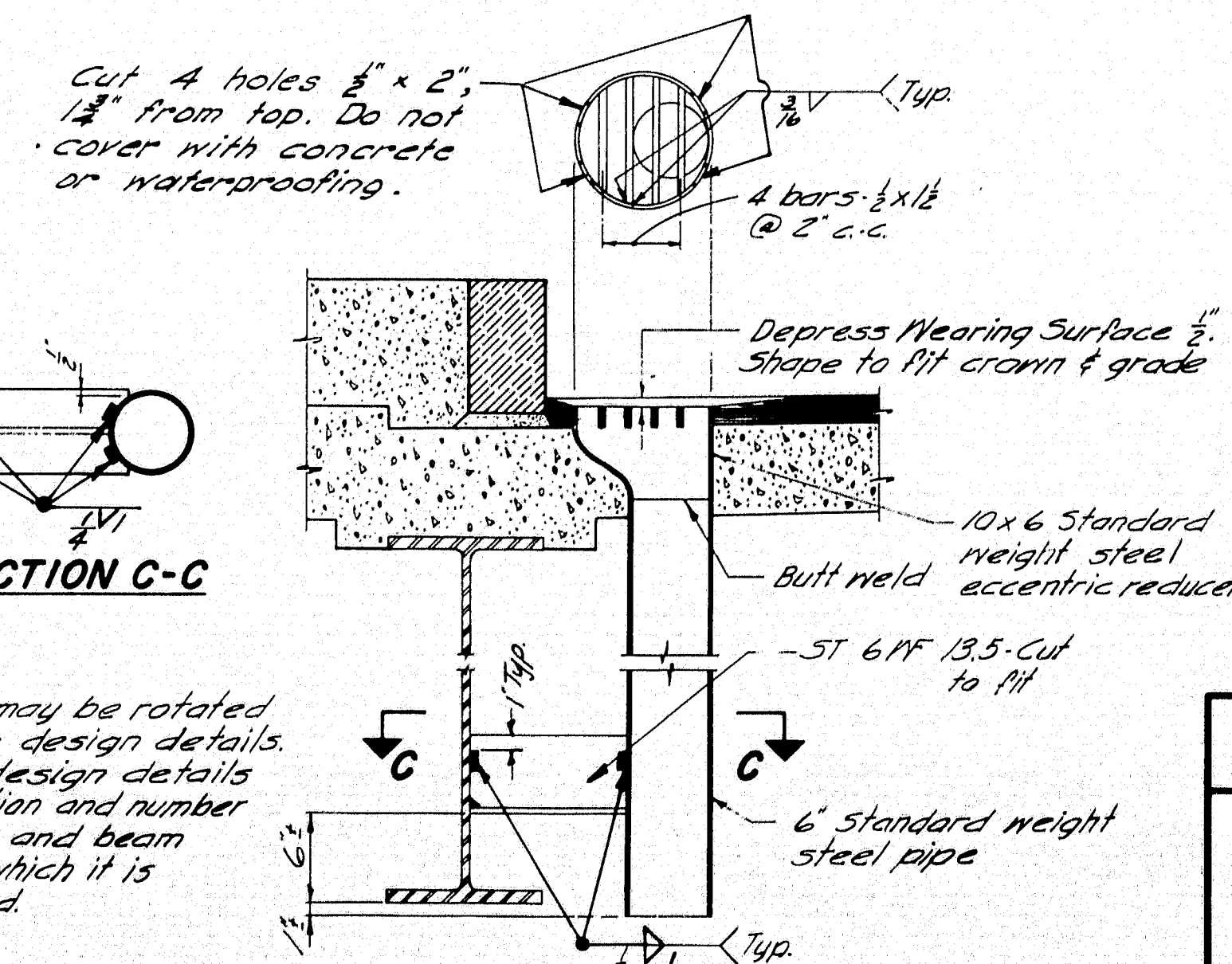
The connectors may be either steel studs or spirally formed bars. At the request of the Contractor a plan for using spirally formed bars will be provided.



NOTE

1. Studs shall be granular or solid flux filled and automatically end welded to top flange in the shop or field.
2. See the design details for Dimensions "A" & "B", stud pitch and skew angle for studs.

SHEAR CONNECTORS



NOTE

1. Drain may be rotated 180°. See design details.
2. See design details for location and number of drains and beam size to which it is connected.

GENERAL NOTE

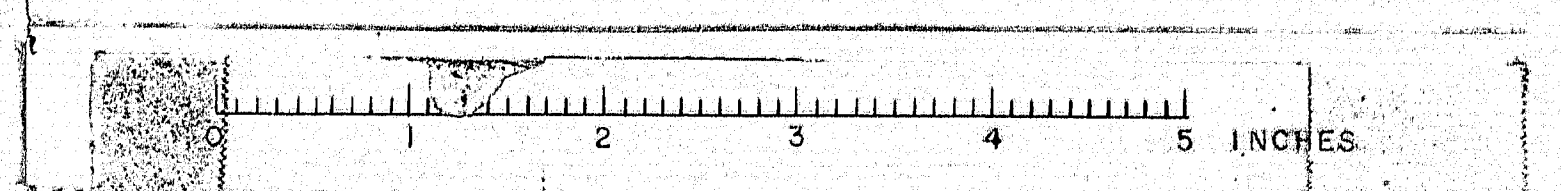
Use only those items called for on design details. In case of conflict between these Standard Details and the design details, the requirements of the design details shall be followed.

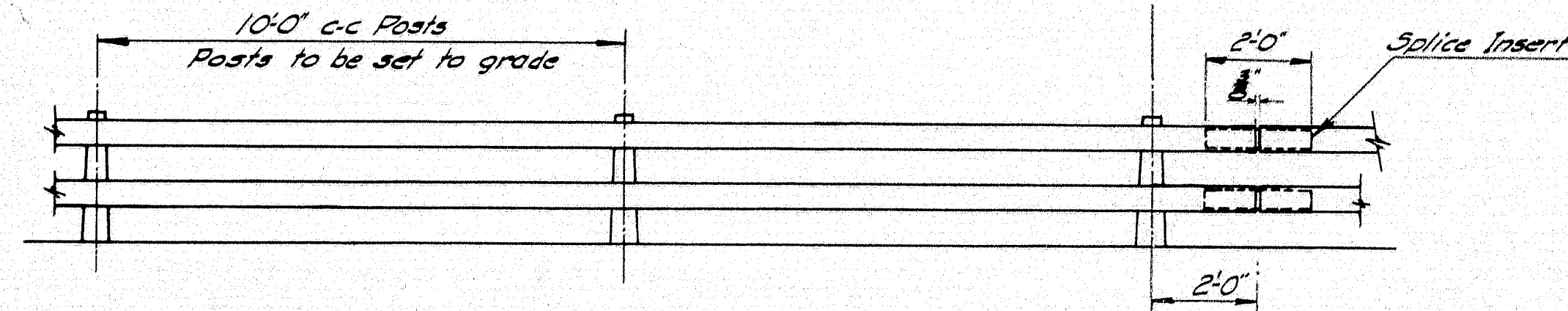
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS
(BD 104-66)
DIAPHRAGMS, ARMORED JOINT, SHEAR CONNECTORS, DRAIN

SEPTEMBER 1966

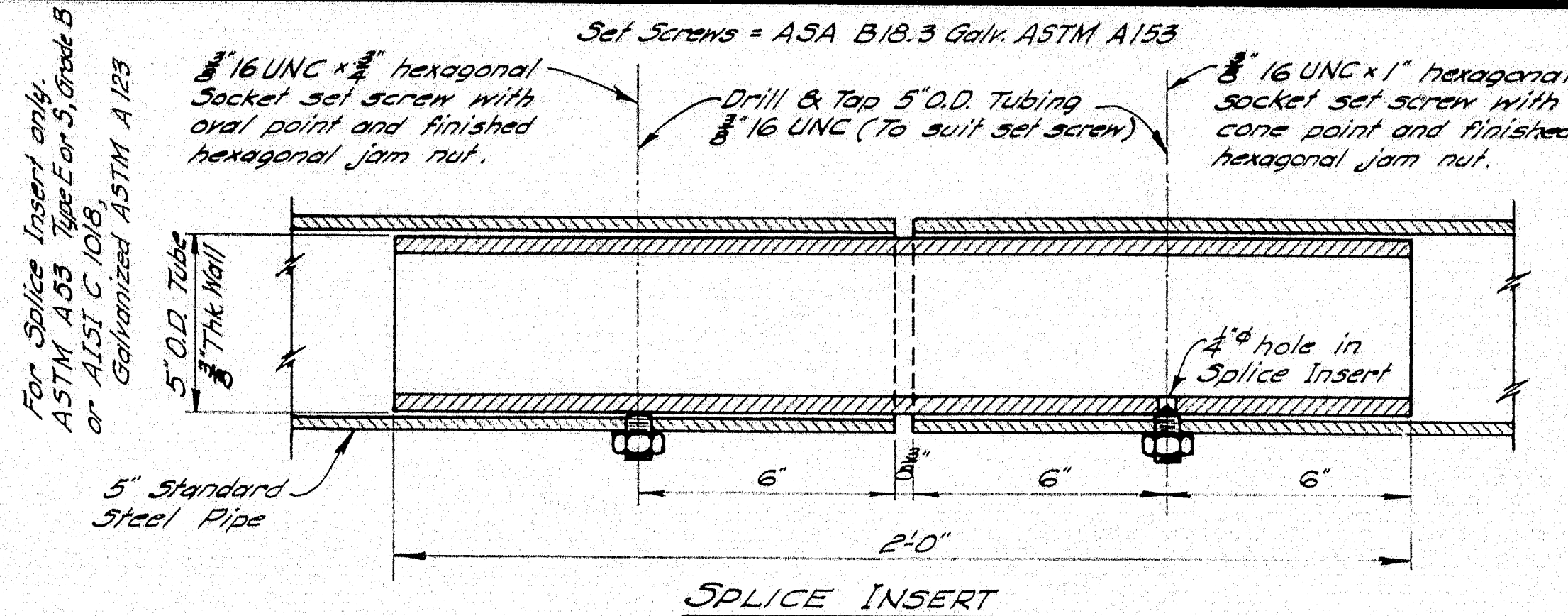
M-2527B



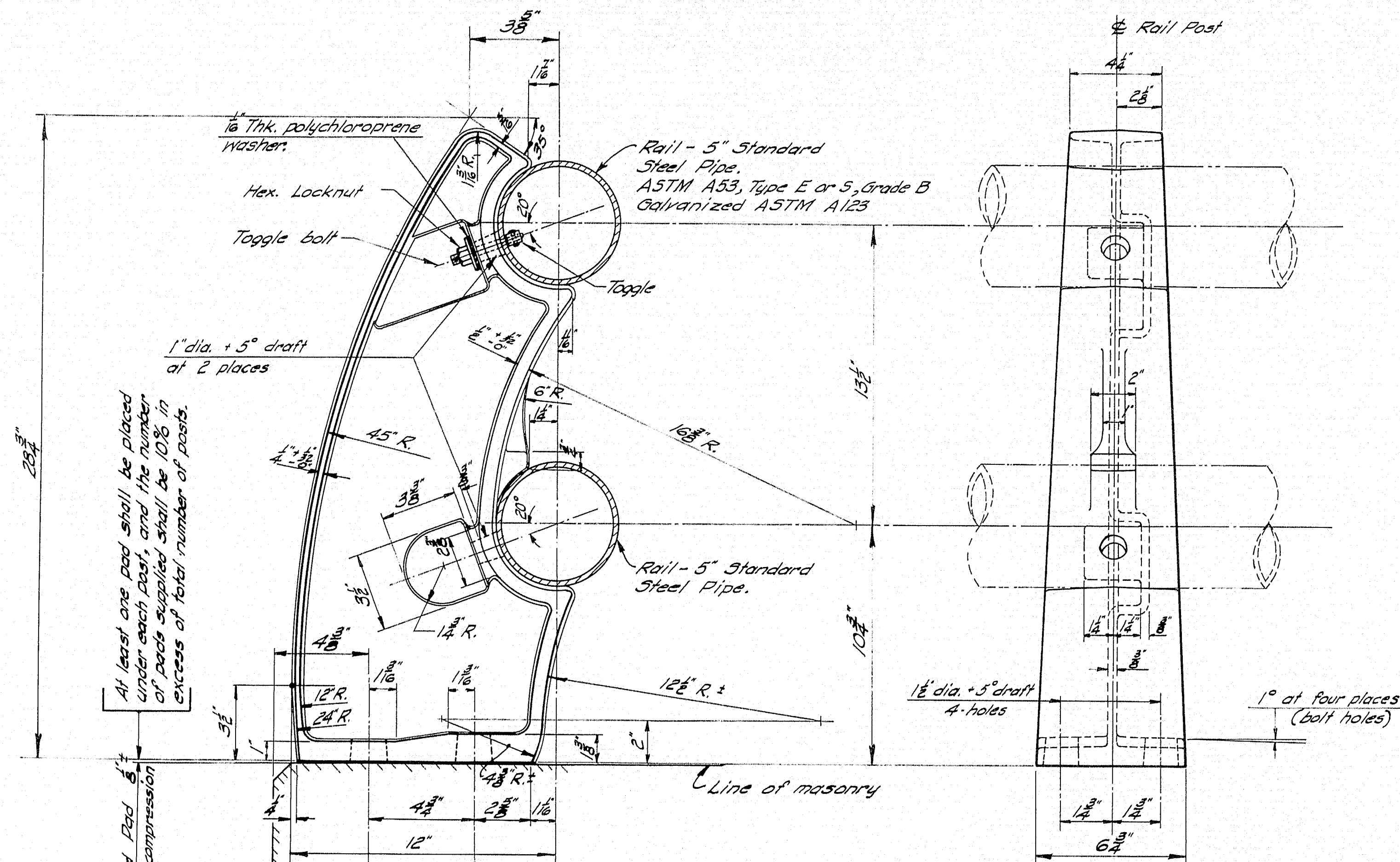


RAIL ELEVATION

Lengths of rail shall be attached to a minimum of (4) four rail posts, whenever possible, and in any case never less than (2) two.

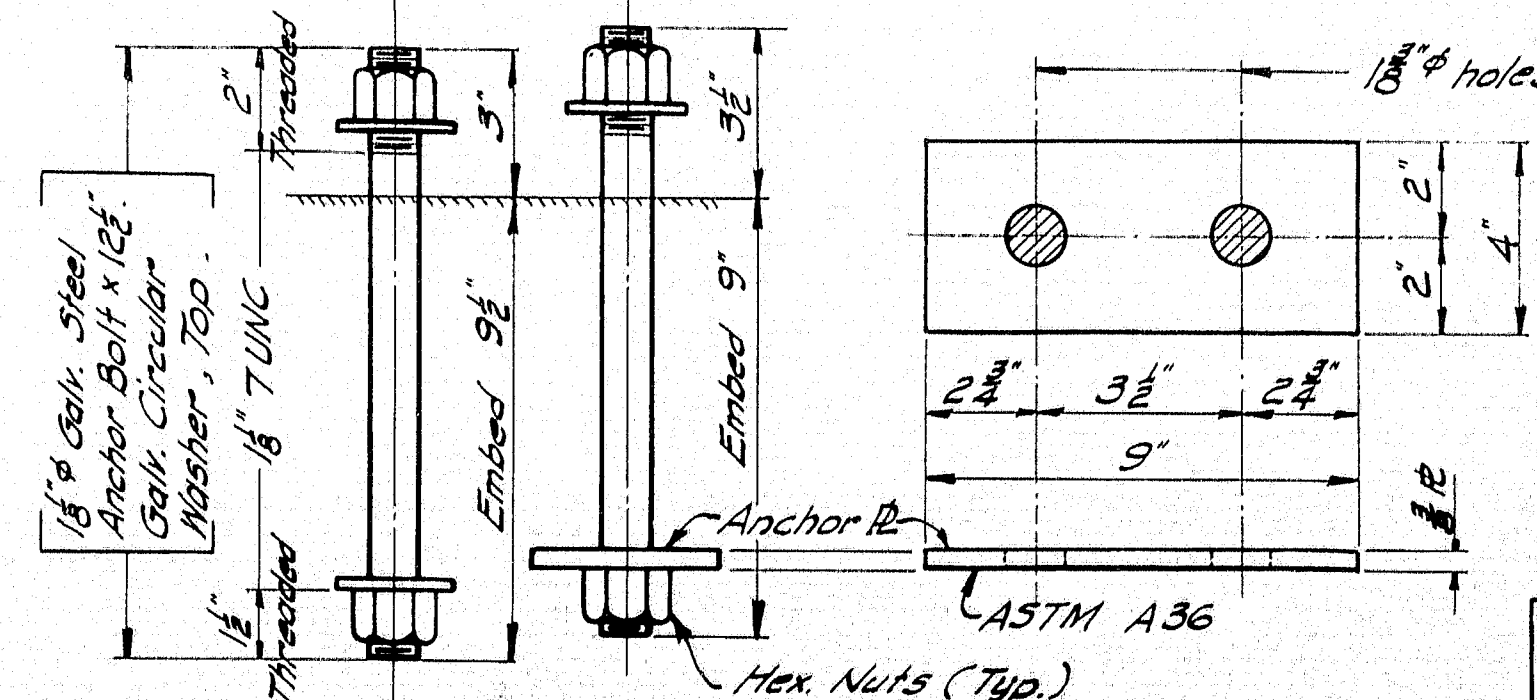


SPICE INSERT



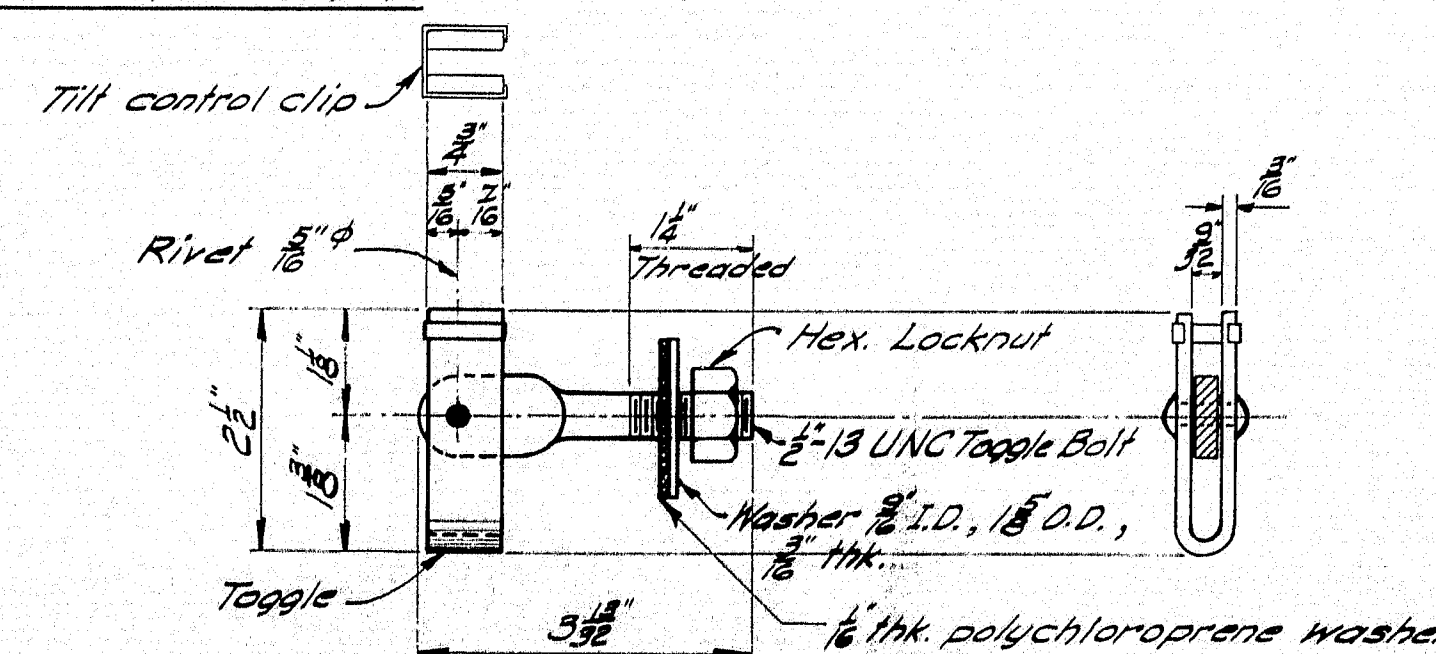
RAIL POST
ASTM A27, Grade 65-35, Galvanized ASTM A153

FRONT ELEVATION



RAIL POST ANCHORAGE

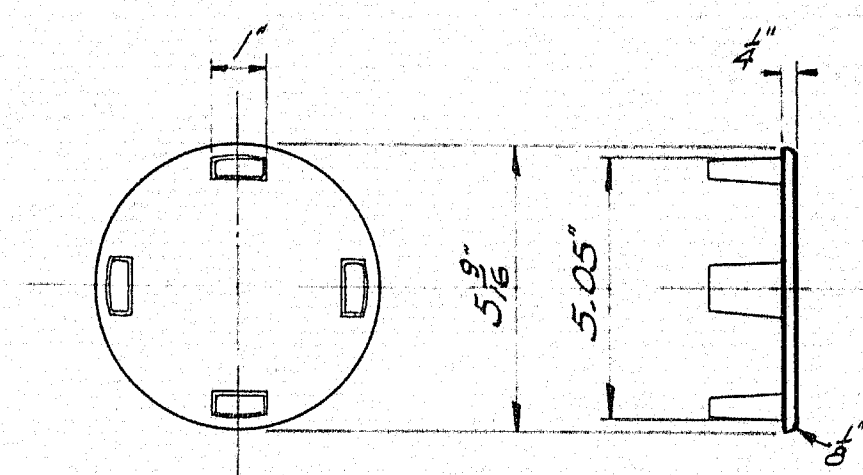
Anchor Bolts, Nuts, & Circular Washers = ASTM A325
Anchor Bolts, Nuts & Circular Washers at Top, (Galv.) ASTM A153



TOGGLE BOLT ASSEMBLY

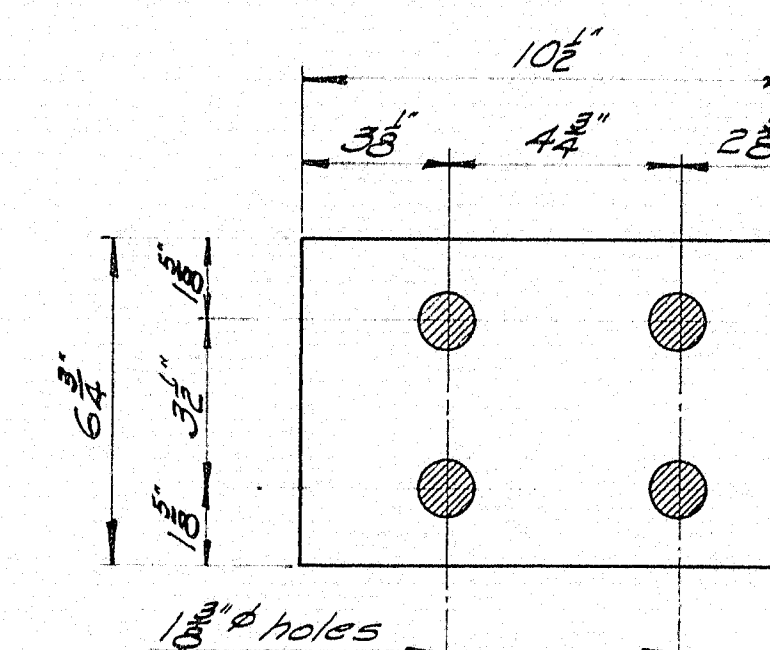
Cadmium Plate metal parts ASTM A165

Required 2-per post



RAIL CAP

ASTM A27, Grade 65-35, Galv. ASTM A153



PREFORMED PAD

See Subsection 713.03 Standard Specifications
Revision of June 1965 for pad and fabric washers.

Required 1-Pad per post

DESIGN SPECIFICATIONS

A.A.S.H.O. Interim Specifications
Int. I (64)

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

(BD 107 - 65)

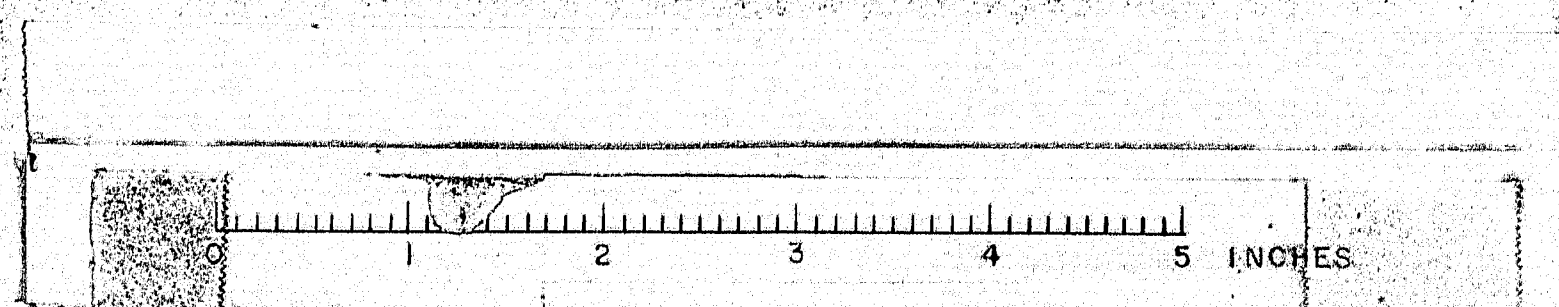
STEEL RAILING

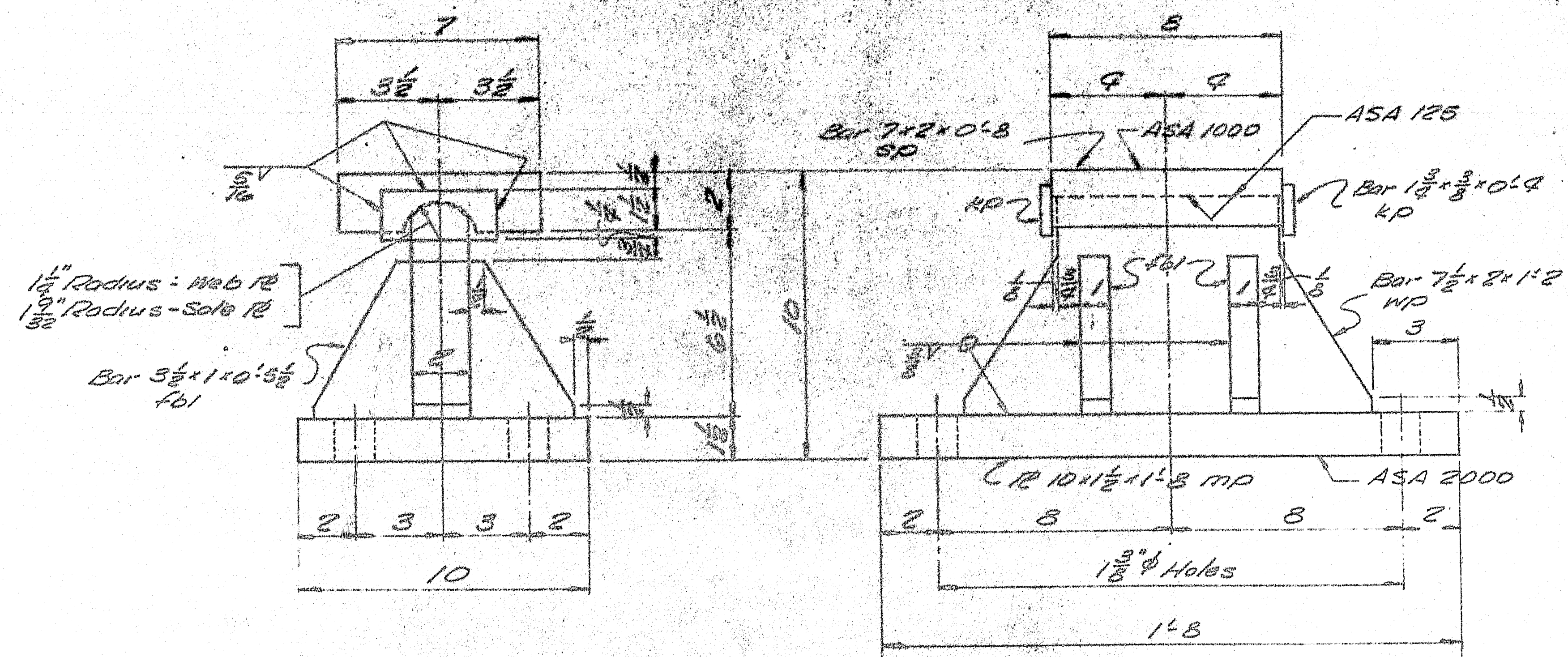
(2-BAR PIPE RAIL)
CAST POST

OCTOBER 1965

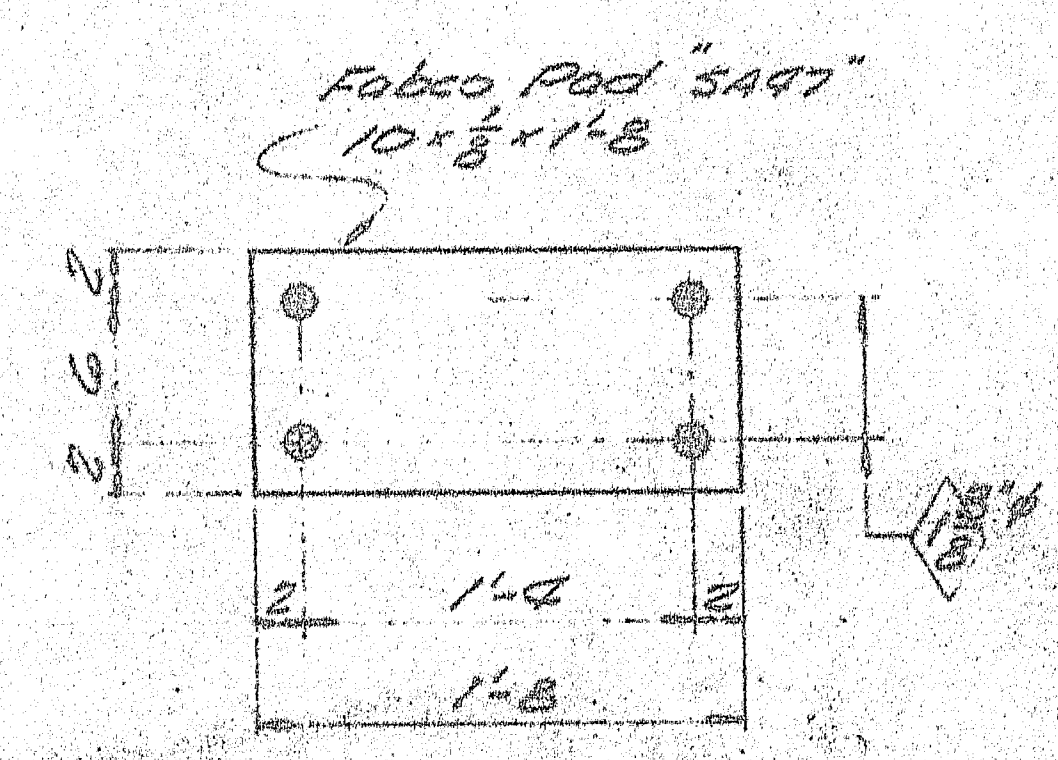
Revised - Toggle Bolt Sept. 1966

M-2529C-I-95 over Beredick Road - SHERMAN

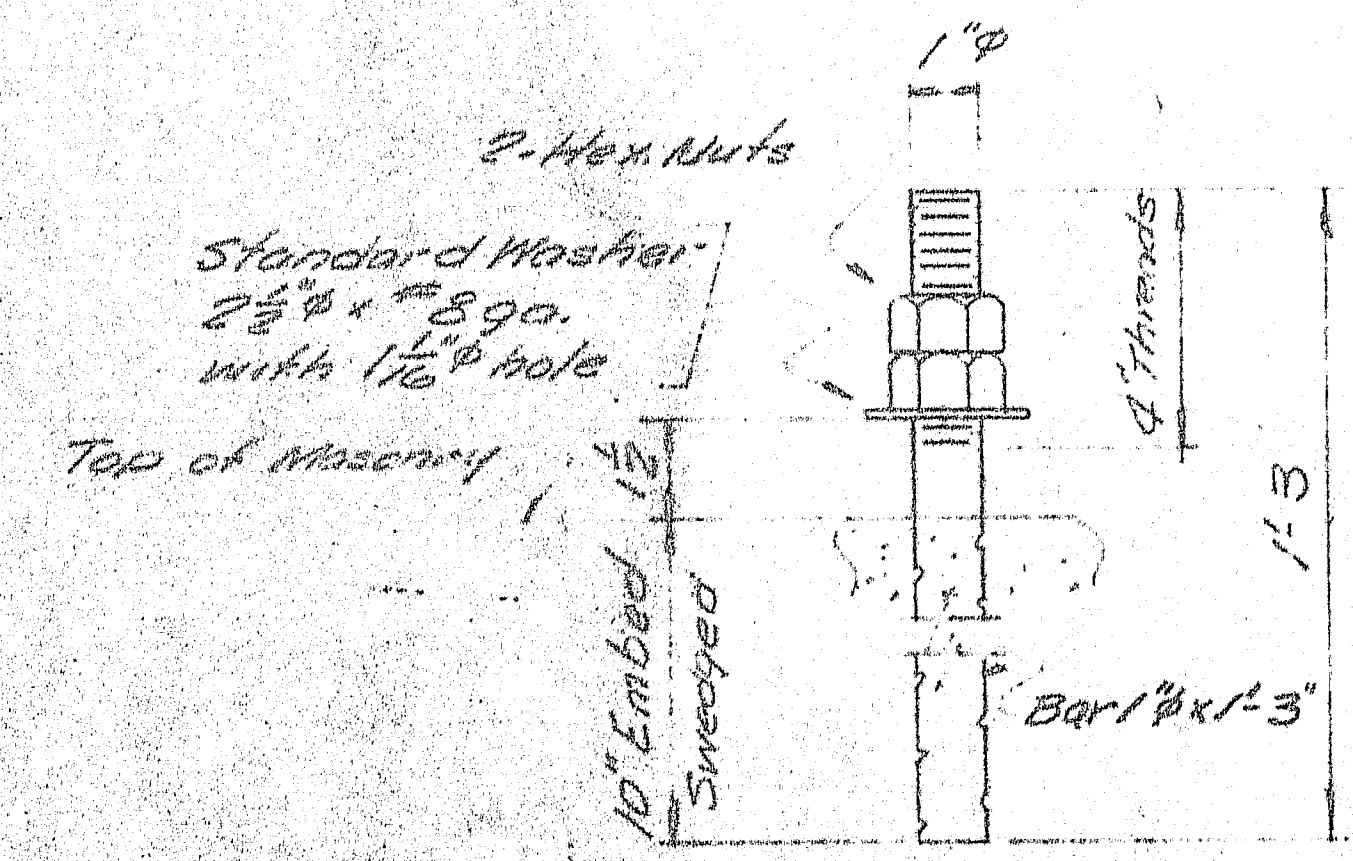




FIXED PEDESTAL FPC-2
12-REQ'D



FABCO "SAQT" PAD
FP 12-REQ'D



ANCHOR BOLT ABI
48-REQ'D

PAINT NOTES:
No paint on top of sole plates "sp" and 1" down from top on sides, coat with boiled linseed oil.
No paint on surface with distress mark, coat with mixture of red lead and linseed oil.
No paint on bottom of sole plates.

SHIP		BILL OF MATERIAL				DWG. NO. B46-236-22
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
FRCE	12		FIXED PEDESTAL ASSY.			
	12	MD	R10x1 1/2	1	8	
	12	MD	Bar 7x2x2	1	2	
	12	SP	Bar 7x2	0	8	
	24	KP	Bar 1 1/2 x 3/8	0	2	
	48	FCI	Bar 5 1/2 x 1	0	5 1/2	
ABI	48		Bar 1" x 3"	1	3	Shedged
	96	shop	1" Hex. Nut			
Field	48		1" Washer			Std. washer 2 1/2" dia. 1" sq. with 1/16" hole
FP	12		Pad 10x8	1	8	Fabco Pad "SAQT" Reg. #

Allowance to be made for machining when cutting above plates.

ITEM PROJECT NO. I-95-9 (34)

Sole plates "sp" to be field welded to stringers.

Bearing material to be ASTM A36, Anchor bolts to be A7, A36, or A307. All welds to be made with E70 Electrodes. SHOP CONNECTIONS: welded. FIELD CONNECTIONS: As noted. HOLES: As noted. PAINT: Red lead per Maine S.H.C. spec, and as noted.

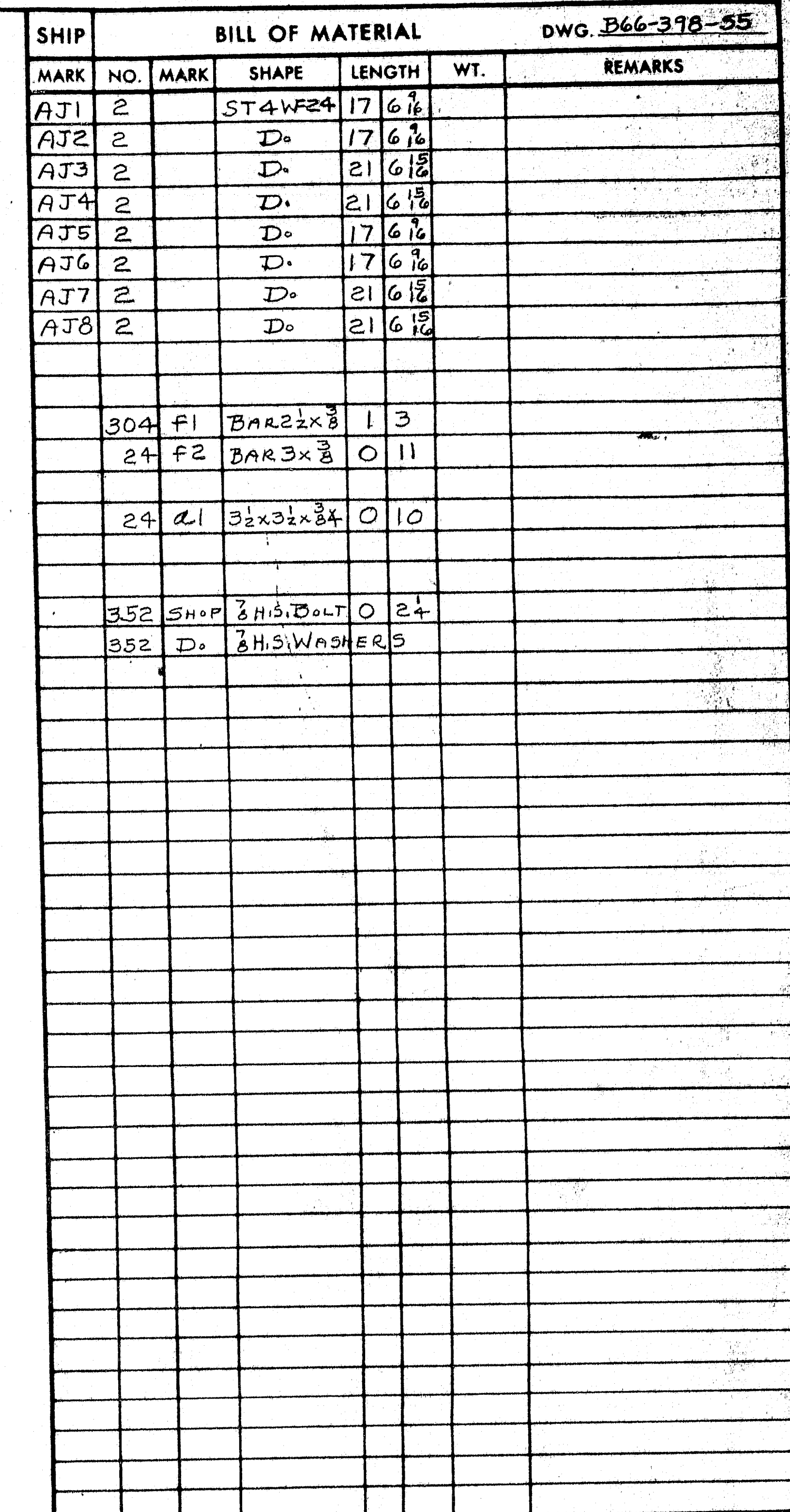
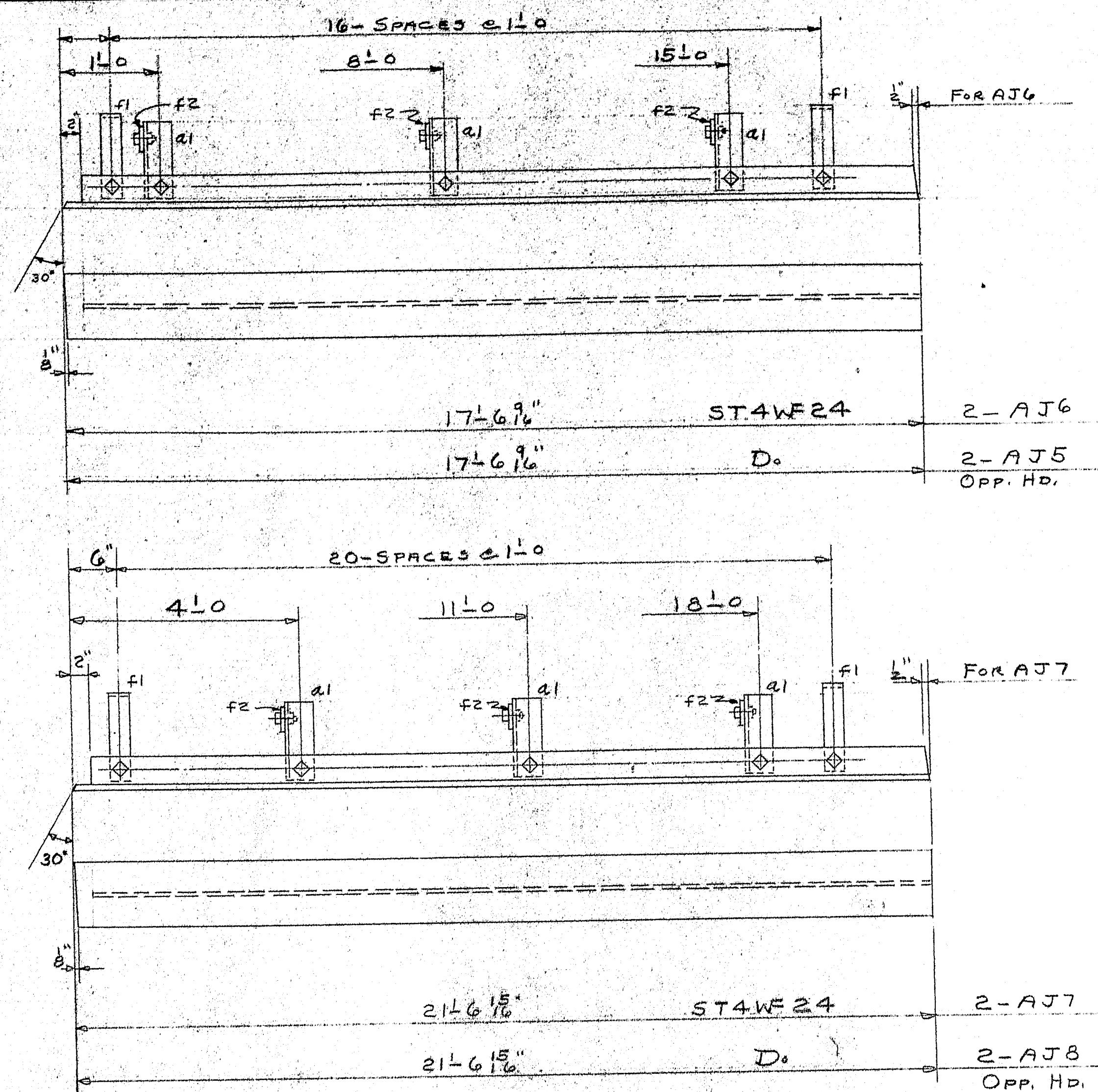
APP'D 1-17-67
BEARING PEDESTAL DETAIL

Bunoroff & Munton Inc.
South Portland 7, Maine

4-PORT. 1-25-67 I95 OVER RTE. 158
5-DIST. 1-25-67 SHERMAN MA

2-F.A. 1-12-67
CUSTOMER CALLAHAN B&B
DESIGNED BY M.S.H.C. BRIDGE CO.
CHECKED BY J.E.B. & J.E.B.

100-12.2

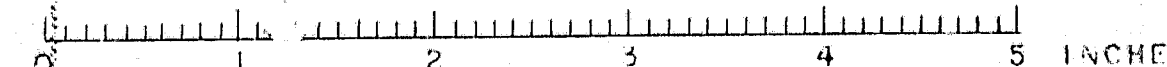


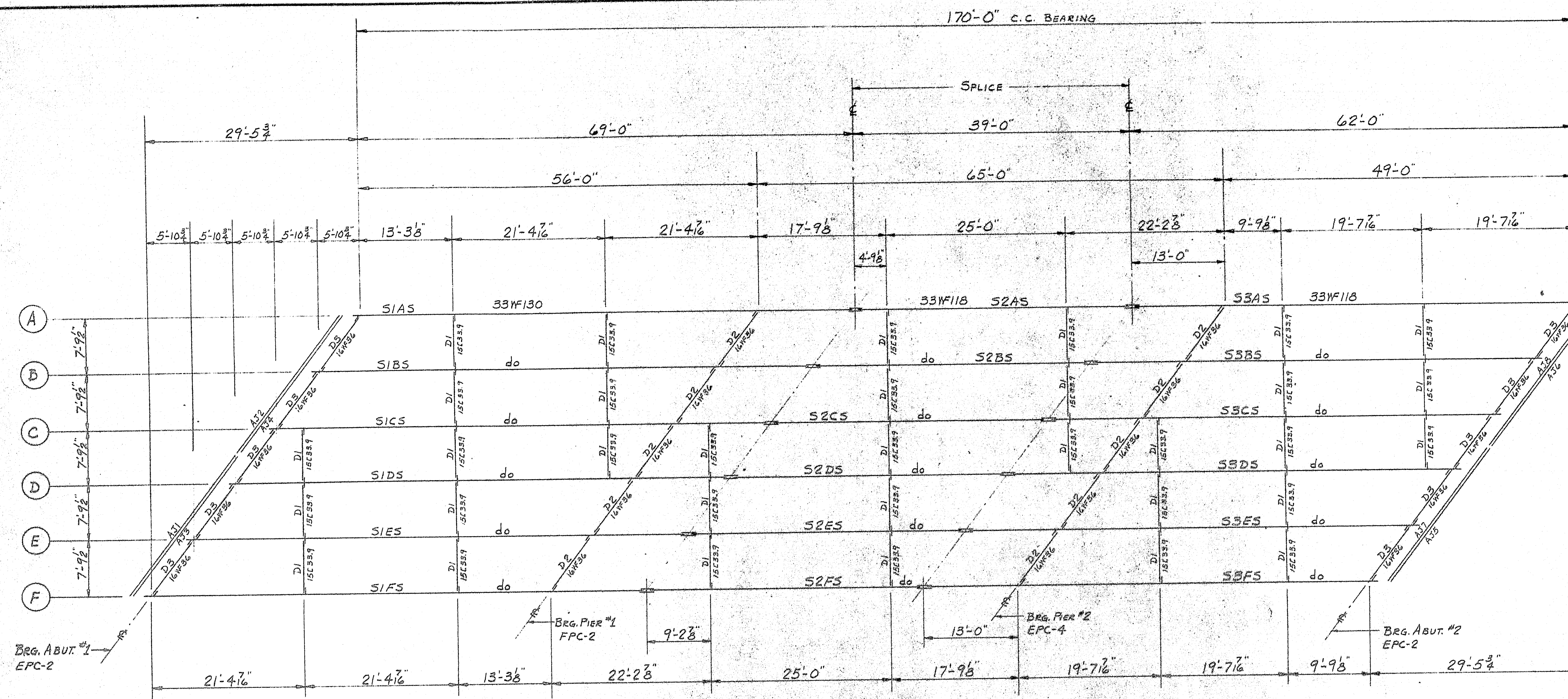
SHOP CONNECTIONS: $\frac{7}{8}$ H.S. BOLTS
FIELD CONNECTIONS: WELD
HOLES: $1\frac{5}{16}$ " ϕ UNLESS NOTED
PAINT: STATE OF ME. SPEC'S.

ARMORED JOINTS

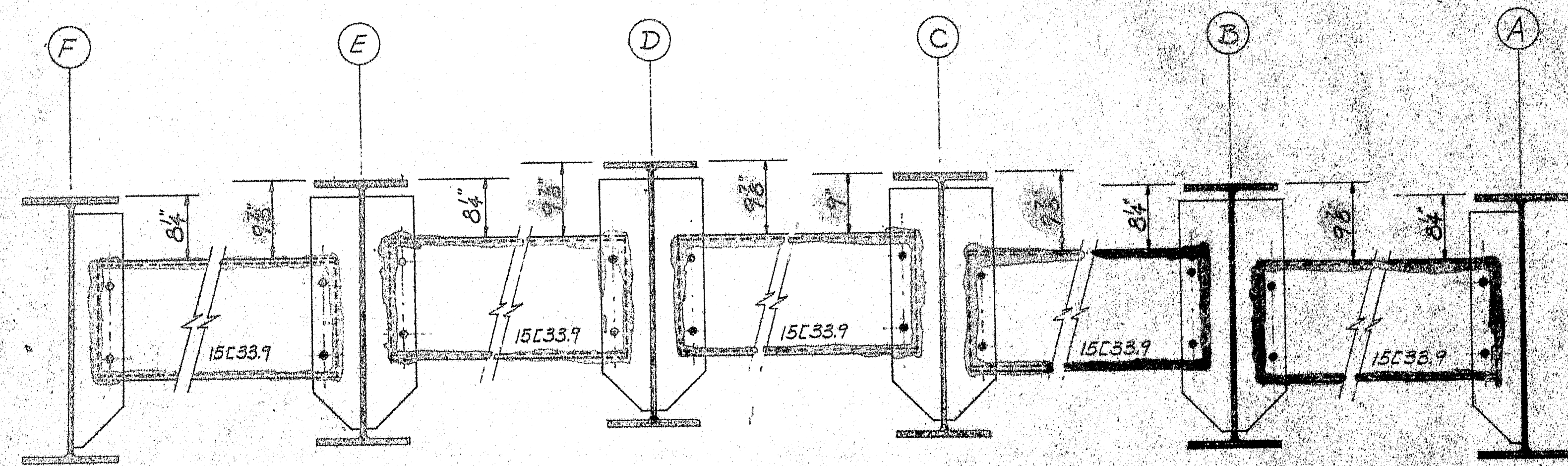
PRINT ISSUE			<i>Bancroft & Martin Inc.</i> <i>Brewer, Maine</i>	
			I 95 OVER RTE. 158 SHERMAN ME.	
6 SHOP	1-25-67		CUSTOMER <u>CALLAHAN BROS.</u> DESIGNER <u>STATE HIGHWAY COMM.</u>	
5 DIST.	1-25-67		ORDER <u>VERBAL</u> DWG. <u>B66-398-55</u>	
2 F.A.	1-12-67			
DRAWN	1-12-67	D.C.		
REVISION				
REVISION				
REVISION				

100-126

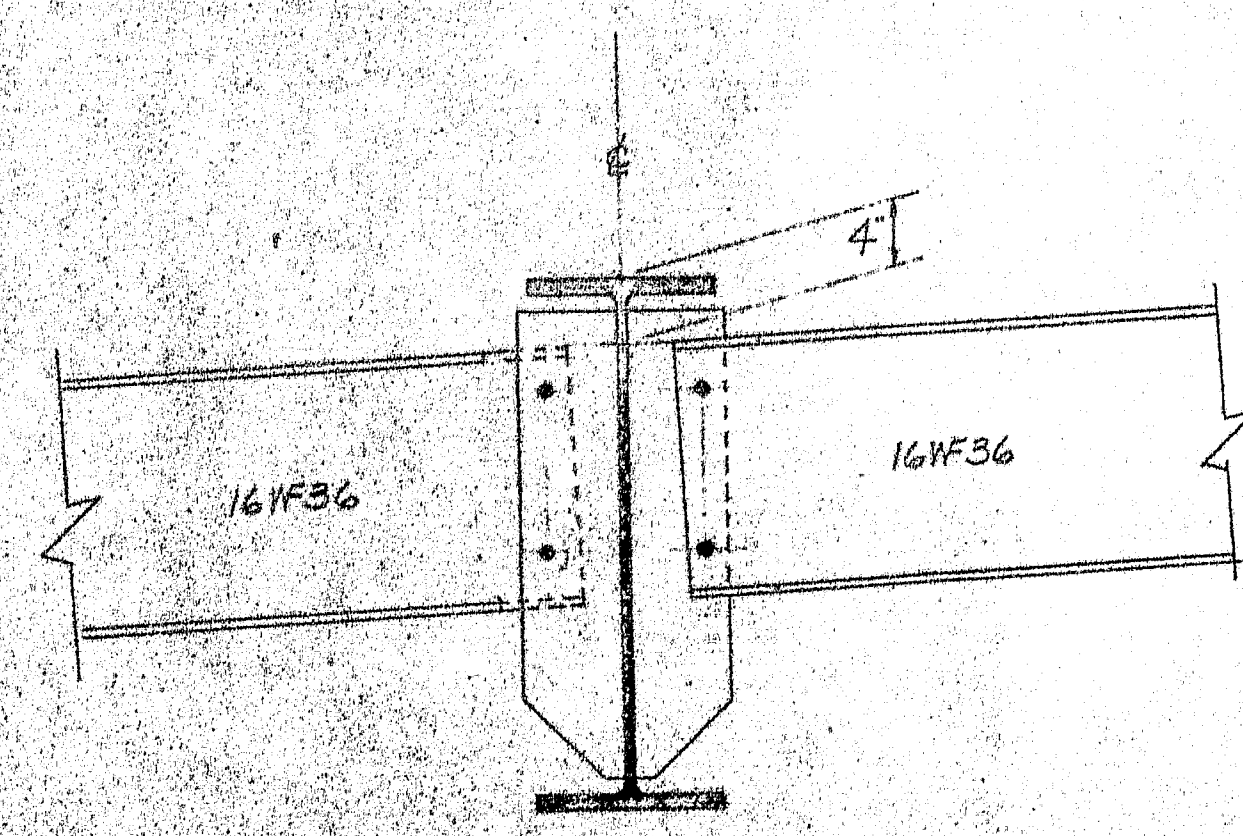




FRAMING PLAN
SOUTHBOUND



DIAPHRAGM CONNECTION



DIAPHRAGM CONNECTION

SHOP CONNECTIONS: WELD E70 LOW-HYDROGEN
FIELD CONNECTIONS: 3/4 H.S. BOLTS
HOLES: 1/8" UN.
PAINT: STATE OF MAINE SPEC.

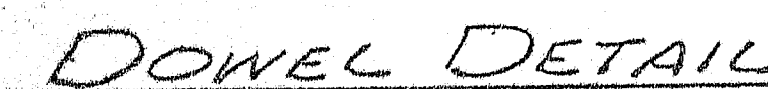
PROJ. NO. I-95-9(34)25B APP. AS NOTED 2-13-67

SOUTHBOUND FRAMING PLAN			Bancroft & Martin Inc. Brewer, Maine	
2	S.H.C.	2-15-67	I-95 OVER BENEDICTA ROAD	
3	CUST.	2-15-67	SHERMAN, MAINE	
2	SHOP	2-15-67	CUSTOMER: CALLAHAN BROS.	
3	F.A.	1-30-67	DESIGNER: M.S.H.C.	
DRAWN	1-23-67	C.J.M.	ORDER: VERBAL	
REVISION			DWG. B66-399-E2	
REVISION				

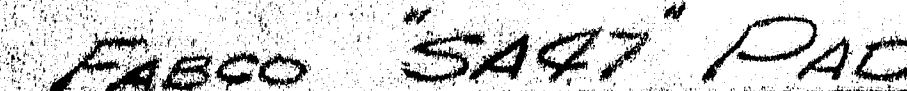
100-128



48- REO'D

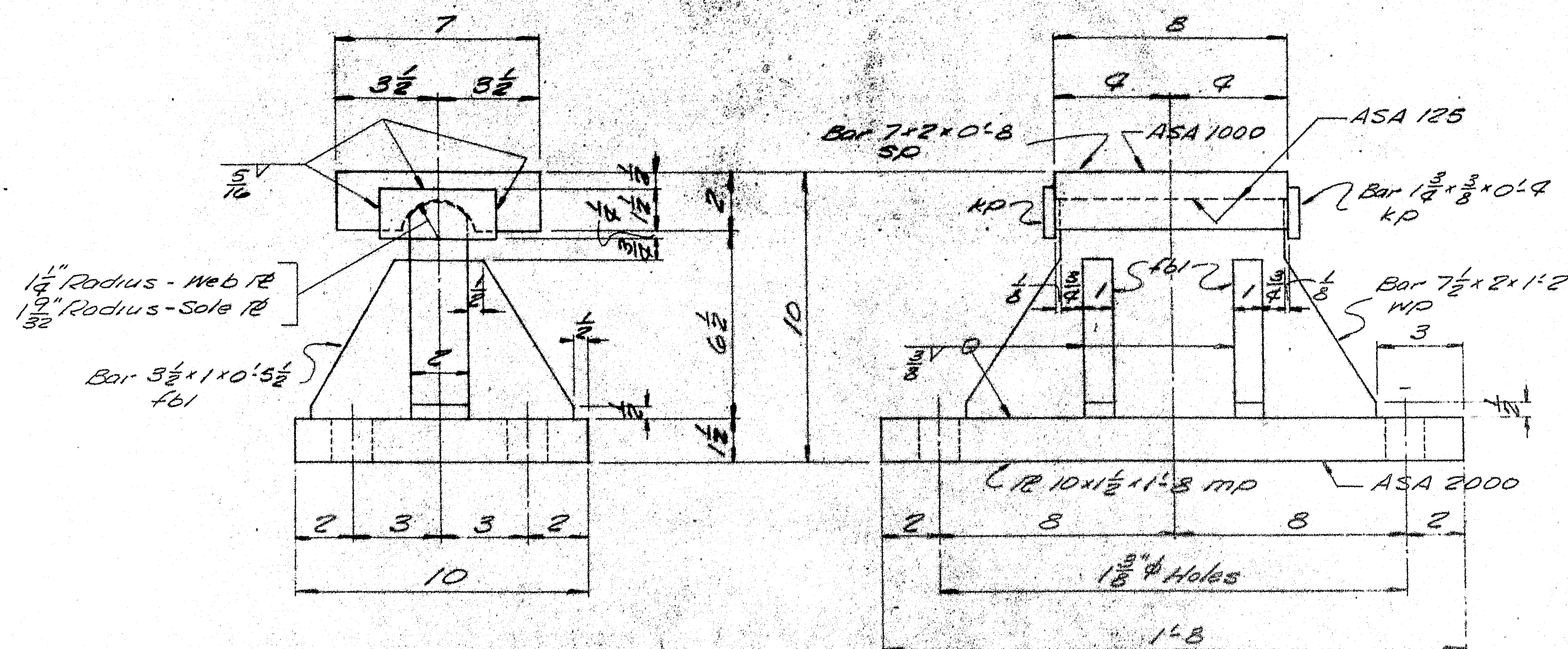


Fabco Pod "5A47"
8 x $\frac{1}{2}$ x 1'-8

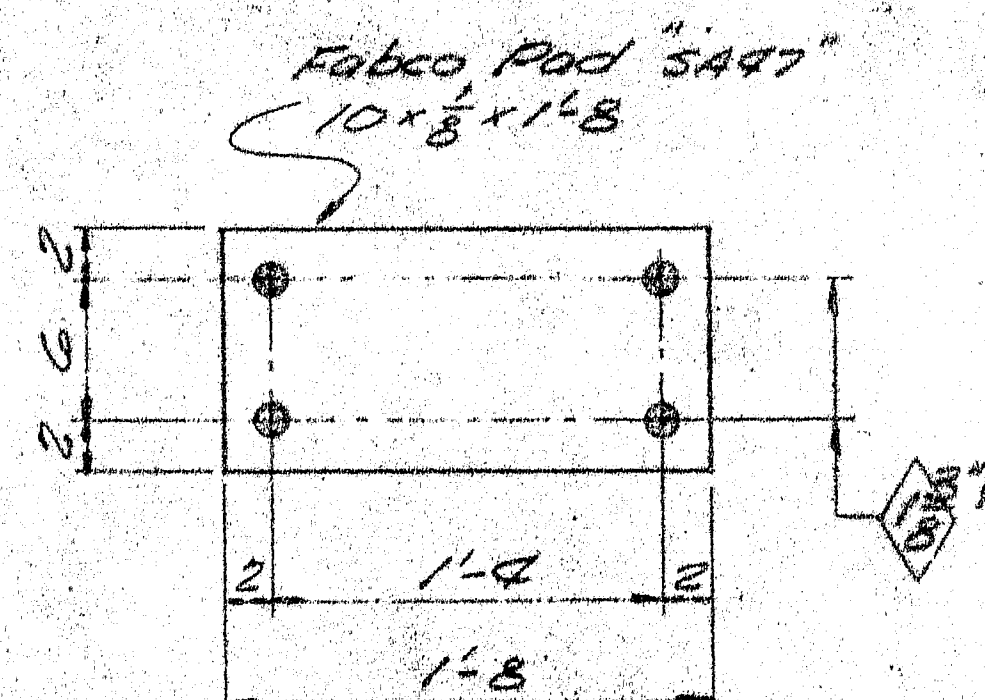


FP/ 24-REQ'D

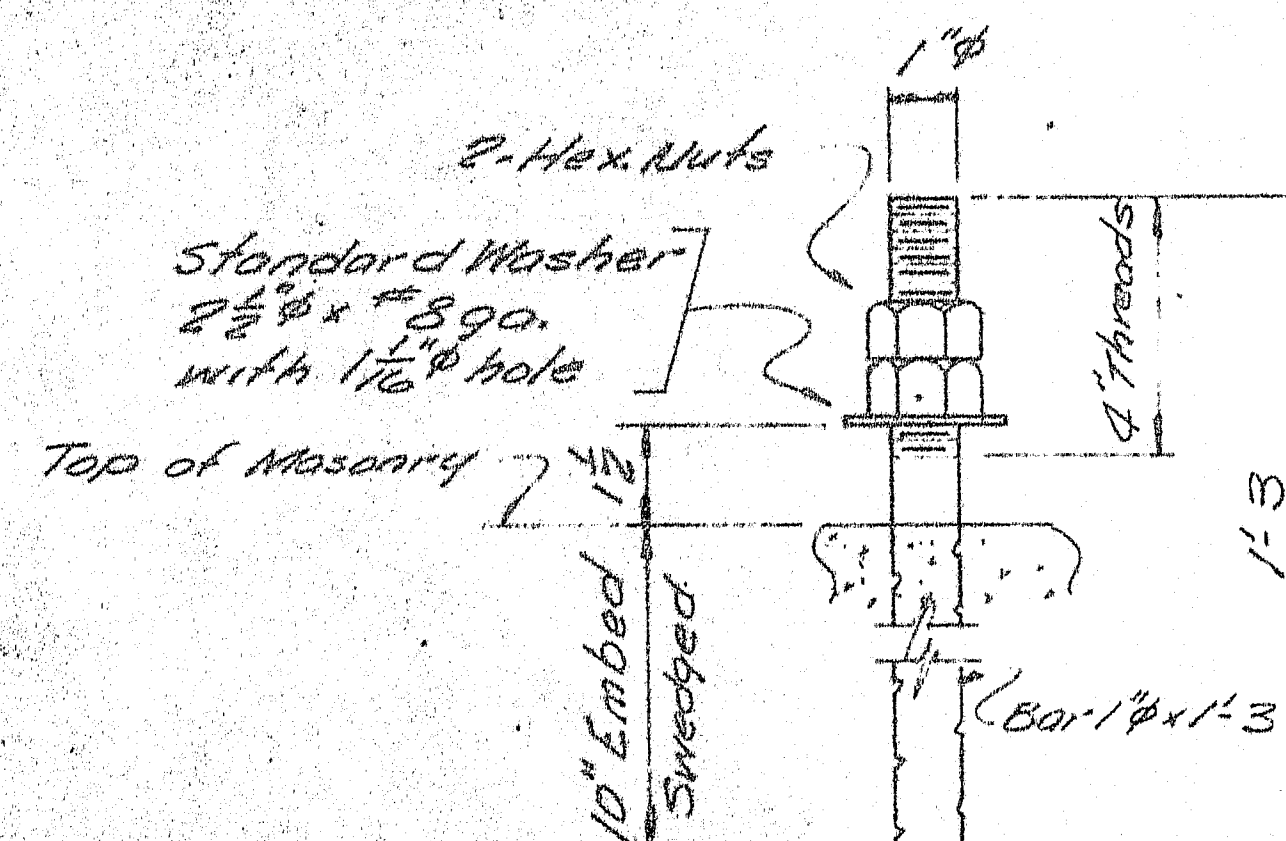
No paint on surface with 13A129
coat with mixture of white lead and turpentine
No paint on Anchor bolts on tank



FIXED PEDESTAL FPC-2
12 - REQ'D.



FABCO "SA47" PAD
FP2 12 - REQ'D.



ANCHOR BOLT ABI
48 - REQ'D.

PAIN'T NOTE:

No paint on top of sole plates "sp" and 1" down from top on sides, coat with boiled linseed oil.
No paint on surface with ASA 125 finish, coat with mixture of white lead and tallow.
No paint on Anchor bolts - Oil them.

SHIP		BILL OF MATERIAL				DWG. NO. B66-39952
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
FPC2	12		FIXED PEDESTAL ASSY.			
	12	MD	10 1/2	1	8	
	12	MD	Bar 7/8	1	2	
	12	SP	Bar 7/8	0	8	
	24	KP	Bar 1 1/8	0	2	
	48	FBI	Bar 3 1/2	0	5 1/2	
ABI	48		Bar 1" dia	1	3	Swaged
	96	shop	1" Hex. Nut			
Field	48		1" Washer			Std. washer 2 1/2" dia. 1" sq. with 1 1/8" hole
FP2	12		Pad 10 x 8	1	8	Fabco Pad "SA47" Reg. #
Allowance to be made for machining when cutting above plates.						
ITEM PROJECT NO. I-95-9 (34) 258						
Sole plates "sp" to be field welded to stringers.						
Bearing material to be ASTM A36, Anchor bolts to be A7, A36, or A307.						
All welds to be made with E70 Electrodes.						
SHOP CONNECTIONS: Welded						
FIELD CONNECTIONS:						
HOLES: As noted						
PAINT: Red lead per Maine S.H.C. spec, and as noted.						
NORTHBOUND & SOUTHBOUND						
BEARING PEDESTAL DETAIL						
Bancroft & Martin Inc.						
South Portland 7, Maine						
I-95 OVER BENEDICTA ROAD						
SHERMAN, MAINE						
CUSTOMER CALLAHAN Bros.						
DESIGNER M.S.H.C. BRIDGE DIV.						
ORDER NO. VERBAL						
DWG. NO. B66-39952						

2-S.H.C. 2-23-67
3-CUST. 11-18-66
4-PORT. 11-18-66
3-FA. 11-16-66

DRAWN 11-16-66 C.J.M.

REVISION

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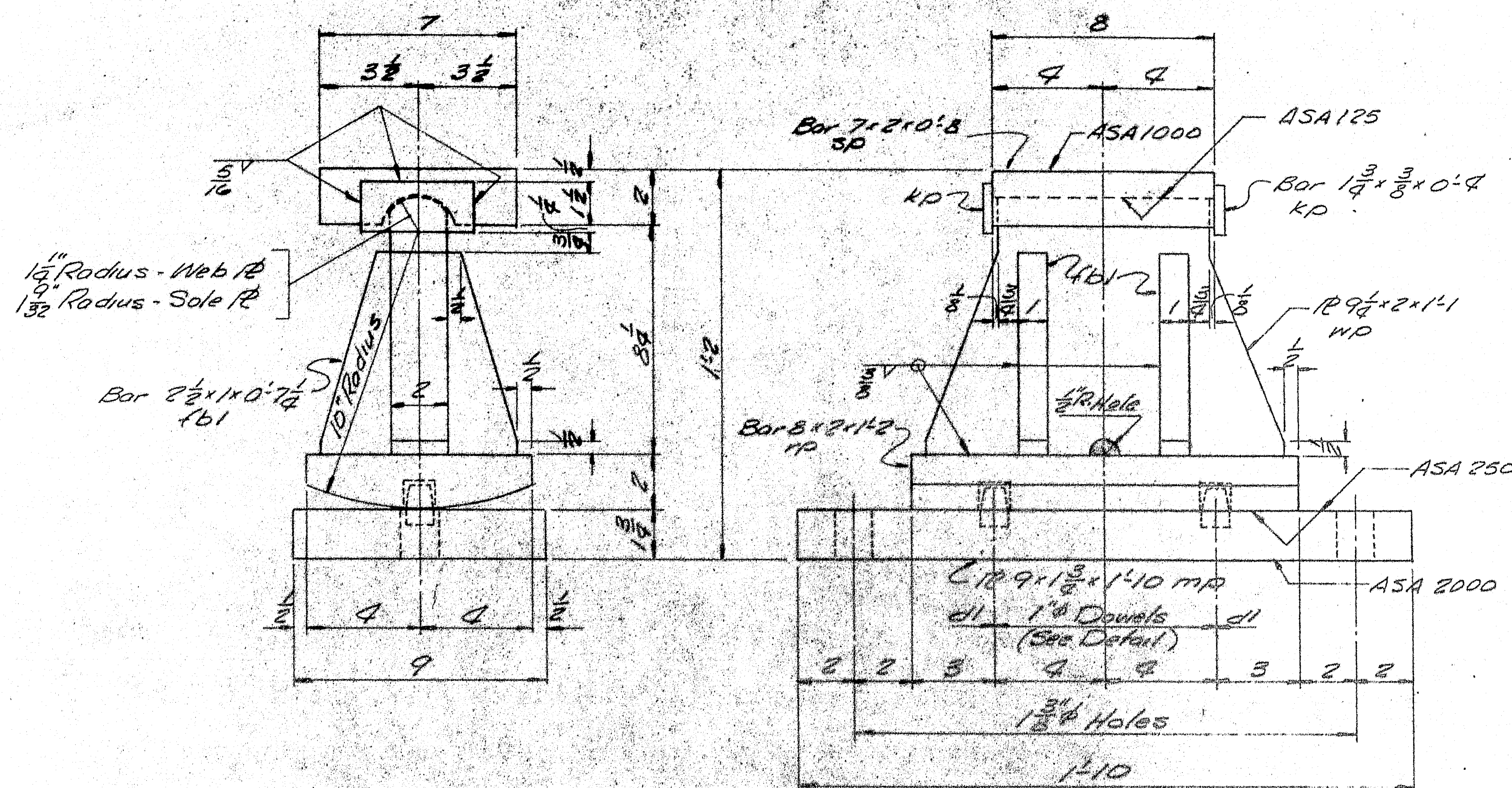
REVISION

REVISION

REVISION

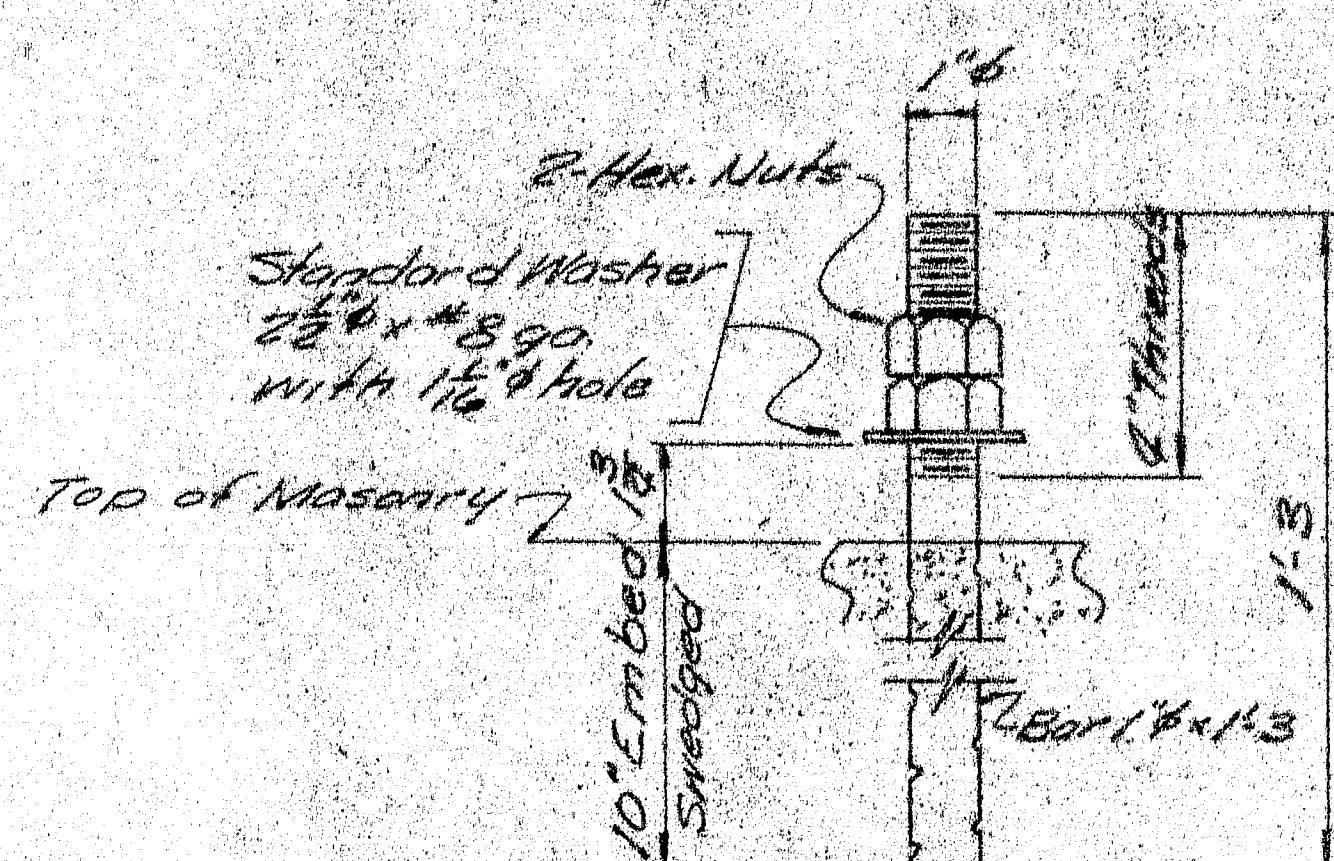
REVISION

100-130



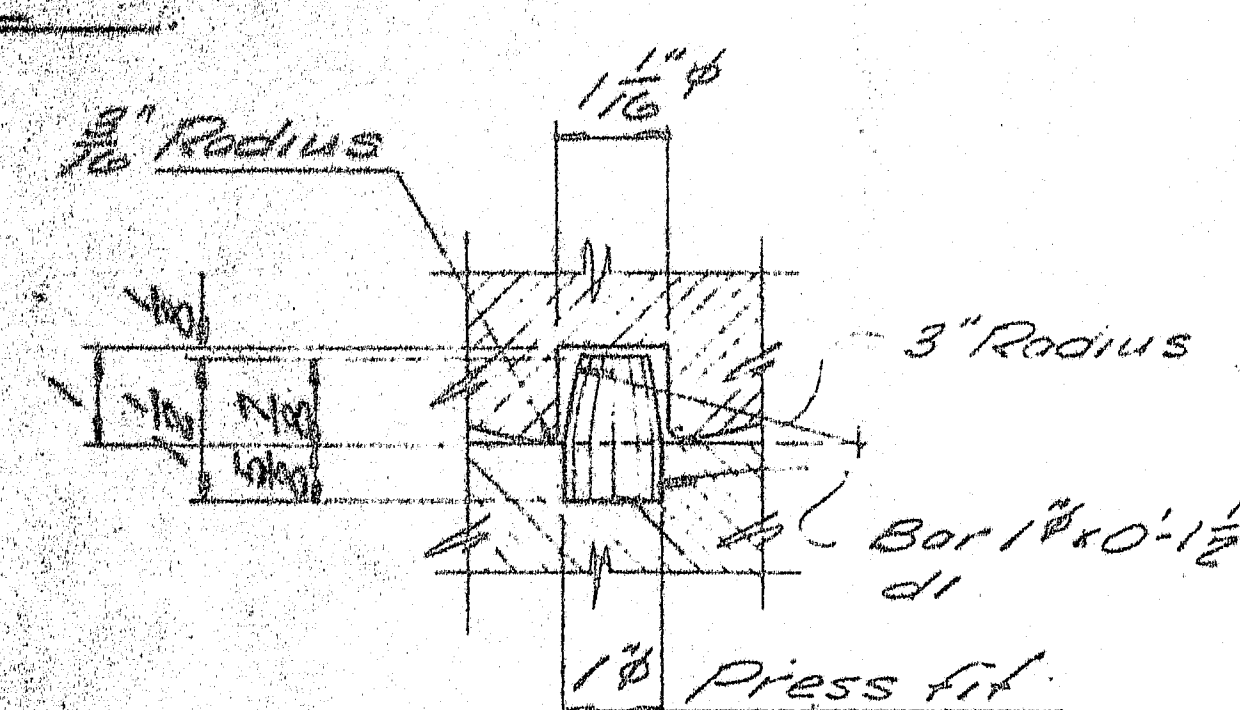
EXPANSION PEDESTAL EPC-4

12 - REQ'D.

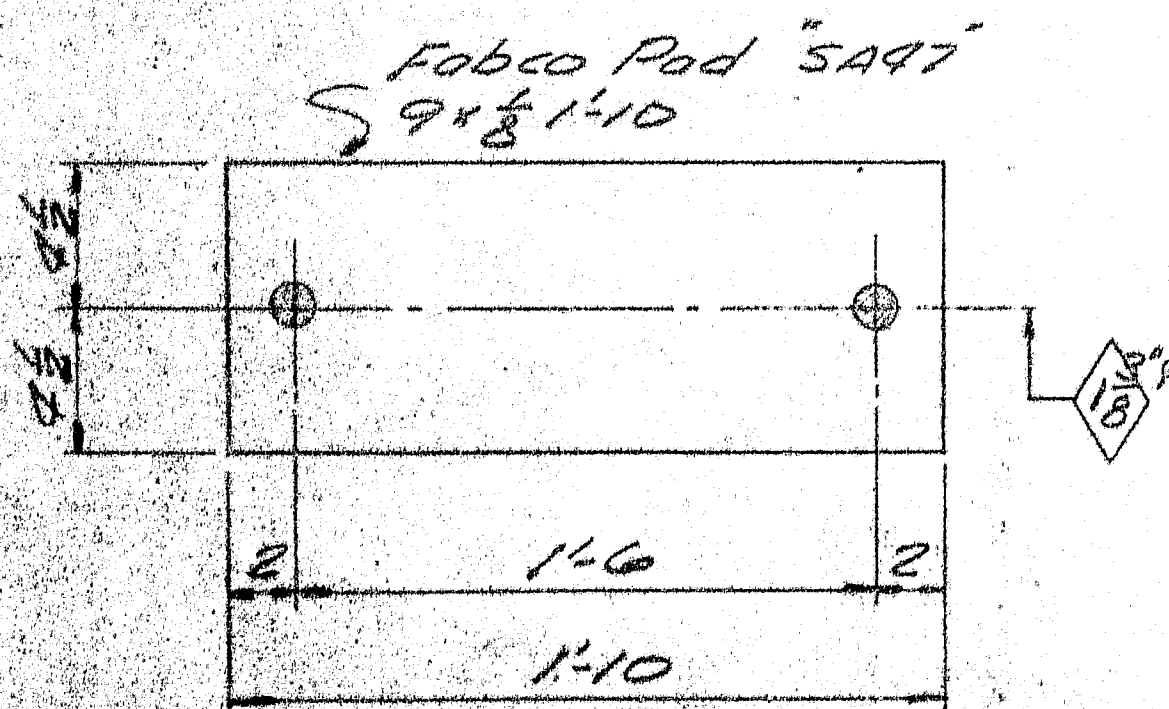


ANCHOR BOLT ABI

24 - REQ'D.



DOWEL DETAIL



FABCO PAD "SA47"

FP3 12 - REQ'D.

PAINT NOTE:

No paint on top of sole plates "sp" and 1" down from top on sides, coat with boiled linseed oil.
No paint on surface with ASA 126 finish, coat with mixture of white lead and tallow.
No paint on Anchor Bolts - Oil them.

SHIP		BILL OF MATERIAL				DWG. NO. B66-399-53
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
ERC-4	12		EXPANSION PEDESTAL ASSY.			
	12	MD	R9x1 1/2	1	10	
	12	1P	Bar 8x2	1	2	
	12	WD	R9x2	1	1	
	12	SP	Bar 7x2	0	8	
	48	1b1	Bar 2 1/2x1	0	7 1/2	
	24	d1	Bar 1 1/4	0	1 1/2	
	24	KP	Bar 1 3/8x3/8	0	4	
ABI	24		Bar 1 1/4	1	3	Swedged
	48	shop	1" Hex Nut			
Field	24		1" Washer			Std. Washer - 2 3/4" O.D. x 3/8" Bore with 1 1/2" hole
FP3	12		Red 9x8	1	10	Fabco Pad "SA47" Req. 110.
Allowances to be made for machining when cutting above plates.						
ITEM PROJECT NO. I-95-9(34) 258						
Sole plates "sp" to be field welded to stringers.						
Bearing material to be ASTM-A36, Anchor bolts to be A7, A36, or A307. All welds to be made with E70 Electrodes.						
SHOP CONNECTIONS: Welded						
FIELD CONNECTIONS:						
HOLES: As noted						
PAINT: Red lead per Maine S.H.C. Spec., and as noted.						
NORTHBOUND & SOUTHBOUND						
BEARING PEDESTAL DETAIL						
Bancroft & Martin Inc.						
South Portland 7, Maine						
I-95 OVER BENEDICTA ROAD						
SHERMAN, MAINE						
CUSTOMER: CALLAHAN BEGS						
DESIGNER: M.S.H.C. BRIDGE DIV.						
ORDER NO. VERBAL						
DWG. NO. B66-399-53						

2-S.H.C. 2-23-67
3-Cust. 11-13-66
4-Rev. 11-13-66
3-FA. 11-16-66

DRAWN 11-16-66 C.J.M.
REVISION
REVISION

REVISION

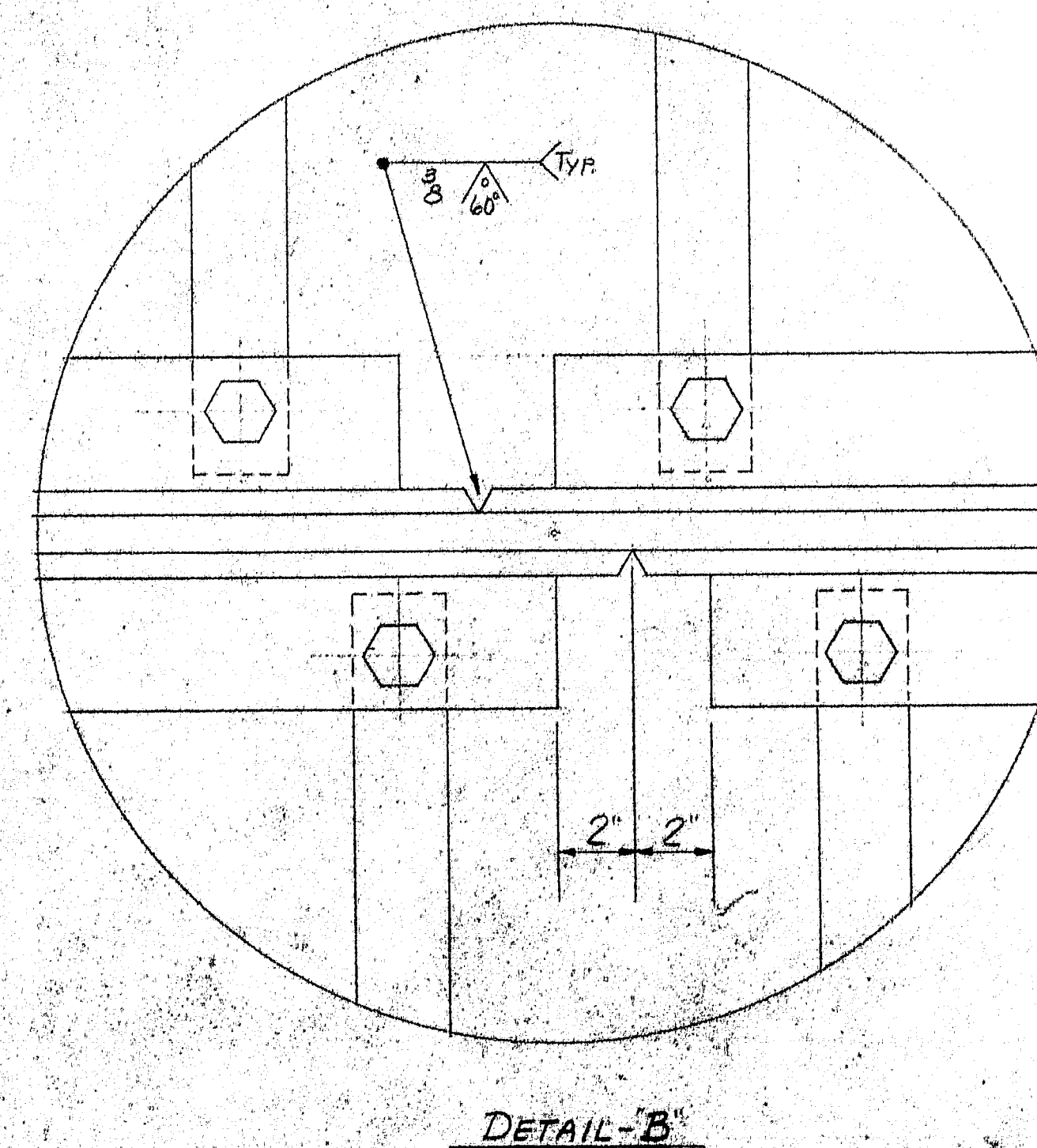
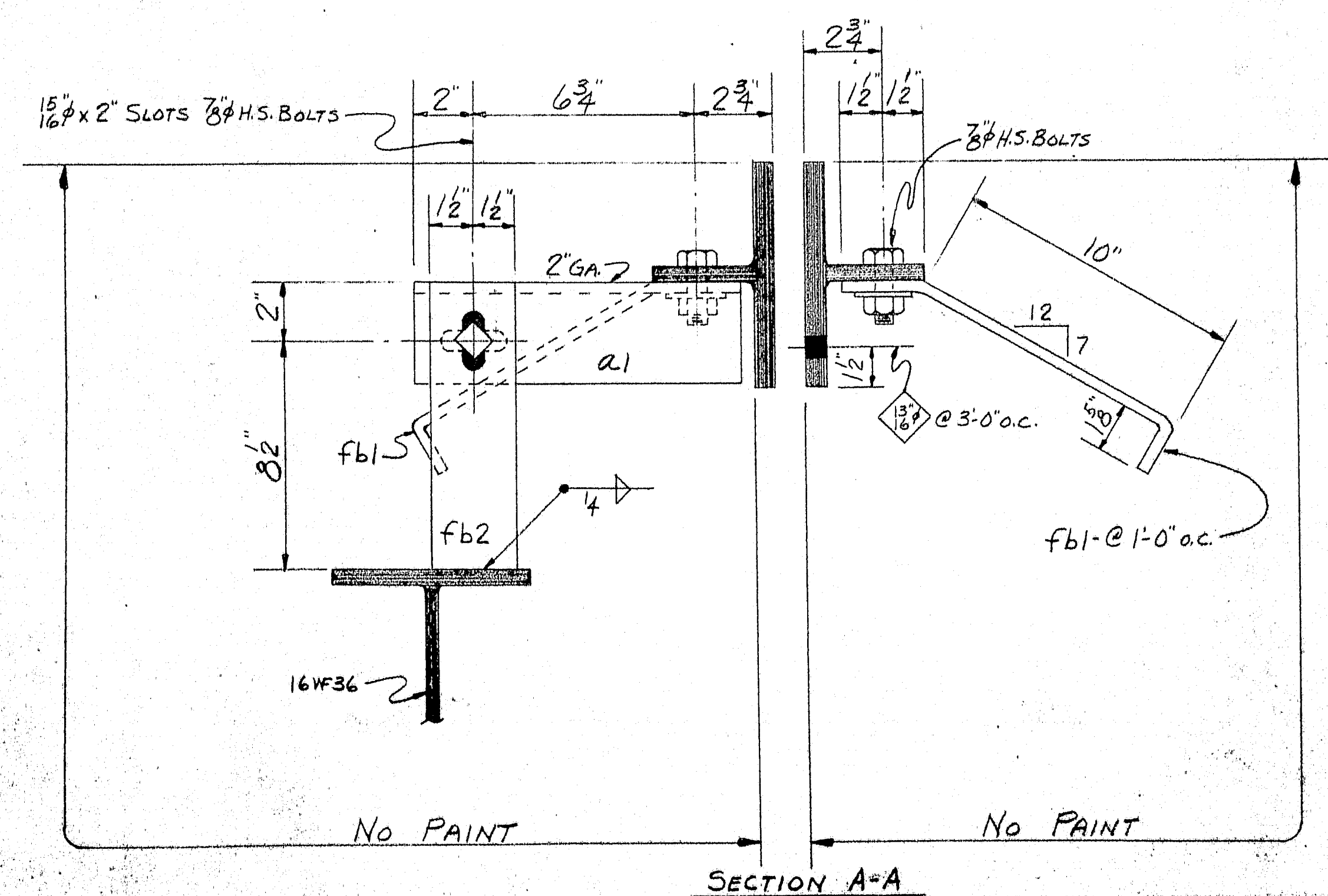
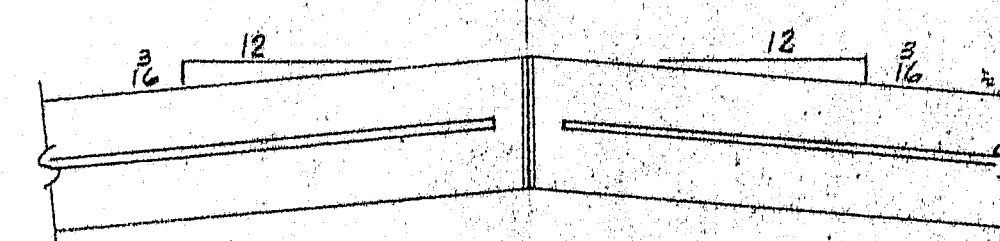
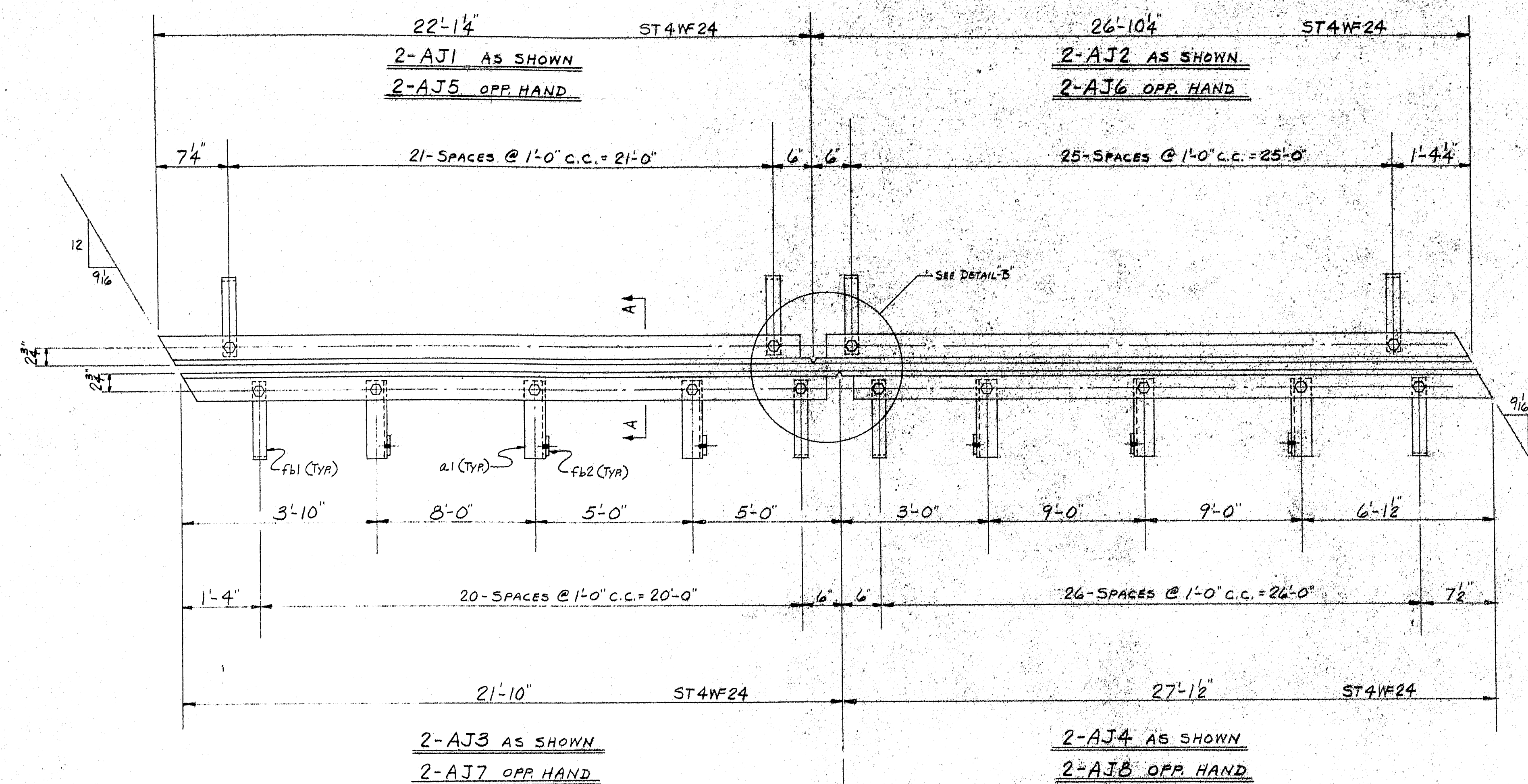
REVISION

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REVISION

REVISION

100-131



SHIP		BILL OF MATERIAL				DWG. B66-399-54
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
AJ1	2		ST4WF24	22' 14"		A36
AJ2	2			26' 10 1/4"		
AJ3	2			21' 10"		
AJ4	2			27' 1 1/2"		
AJ5	2			22' 14"		
AJ6	2			26' 10 1/4"		
AJ7	2			21' 10"		
AJ8	2		do	27' 1 1/2"		do
		24	a1	3 1/2 x 3 1/2 x 3/8	0 104	1/2" F
		384	fb1	FB. 2 1/2 x 3/8	1 3	BENT
		24	fb2	FB. 3 x 3/8	0 102	
		432	SHOP	3/8" H.S. BOLT	0 24	HEAVY NUTS A325
		432	SHOP	3/8" H.S. WASHERS		

SHOP CONNECTIONS: 3/8" H.S. BOLTS
 FIELD CONNECTIONS:
 HOLES: 1/8" U.N.
 PAINT: STATE OF MAINE SPEC'S.

PROJ. No. I-95-9(34)258			APP. 2-13-67	
NORTHBOUND & SOUTHBOUND ARMORED JOINT				
PRINT ISSUE			Bancroft & Martin Inc. Brewer, Maine.	
2	S.H.C.	2-15-67	I-95 OVER BENEDICTA ROAD	
3	CUST.	2-15-67	SHERMAN, MAINE	
6	SHOP	2-15-67		
3	FA.	1-30-67		
DRAWN 1-24-67 C.J.M.			CUSTOMER CALLAHAN BROS.	
REVISION			DESIGNER M.S.H.C.	
REVISION			ORDER VERBAL	
REVISION			DWG. B66-399-54	

100-132

