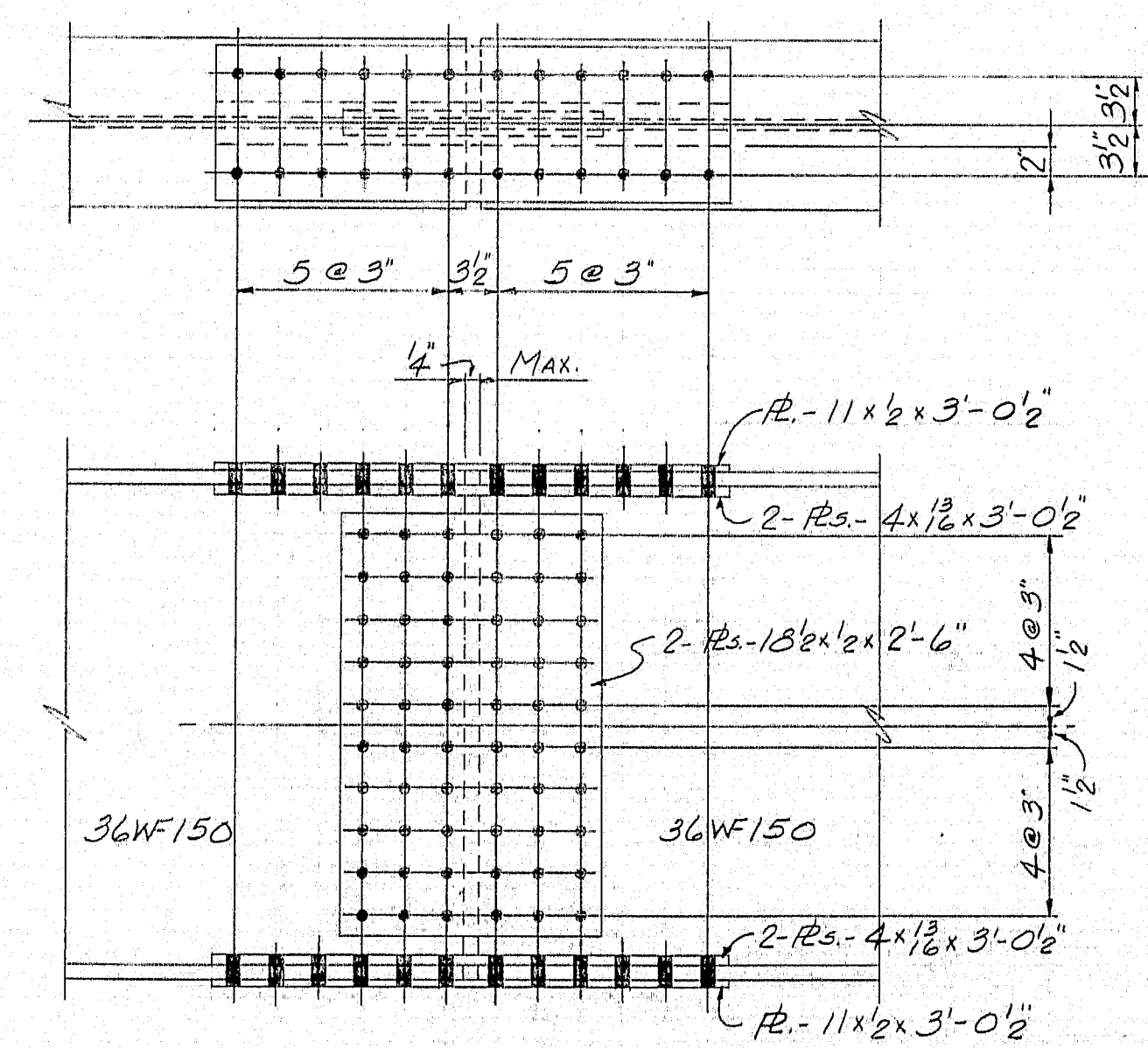


LINE A	3'-6 $\frac{15}{16}$ "	2'-11 $\frac{5}{8}$ "	2'-4 $\frac{3}{16}$ "	1'-11"	1'-17 $\frac{1}{16}$ "
LINE B	3'-7 $\frac{1}{4}$ "	2'-11 $\frac{15}{16}$ "	2'-4 $\frac{3}{8}$ "	1'-11 $\frac{3}{8}$ "	1'-19 $\frac{1}{16}$ "
LINE C	3'-7 $\frac{1}{16}$ "	3'-0 $\frac{1}{8}$ "	2'-4 $\frac{1}{2}$ "	1'-11 $\frac{5}{16}$ "	1'-11 $\frac{1}{16}$ "
LINE D	3'-7 $\frac{3}{4}$ "	3'-0 $\frac{5}{8}$ "	2'-4 $\frac{1}{16}$ "	1'-11 $\frac{7}{16}$ "	1'-11 $\frac{1}{16}$ "
LINE E	3'-7 $\frac{15}{16}$ "	3'-0 $\frac{7}{8}$ "	2'-4 $\frac{3}{4}$ "	1'-11 $\frac{1}{2}$ "	1'-14 $\frac{1}{4}$ "



STRINGER SPLICE DETAIL

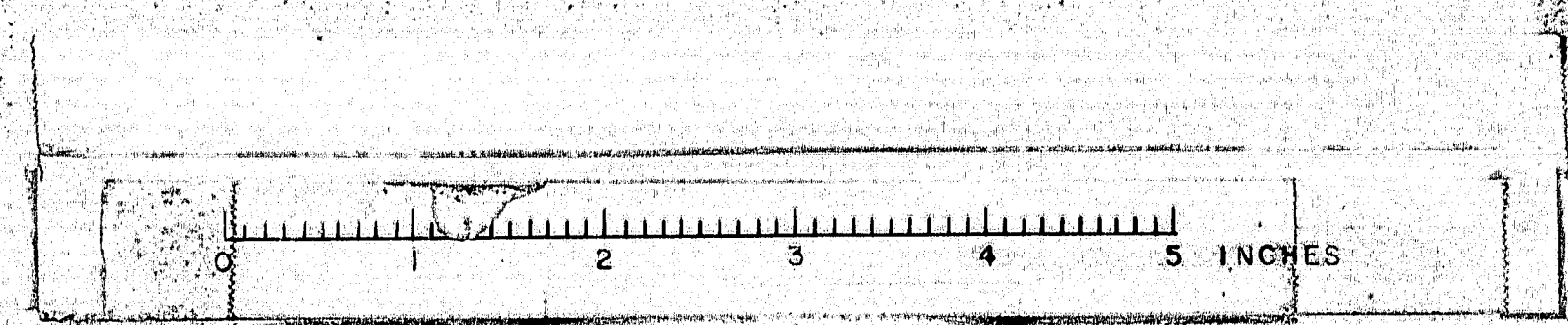
48 - $\frac{7}{8}$ " ϕ x 0'-3 $\frac{3}{4}$ " H.S. BOLTS FOR FLGS.
60 - $\frac{7}{8}$ " ϕ x 0'-3" H.S. BOLTS FOR WEB

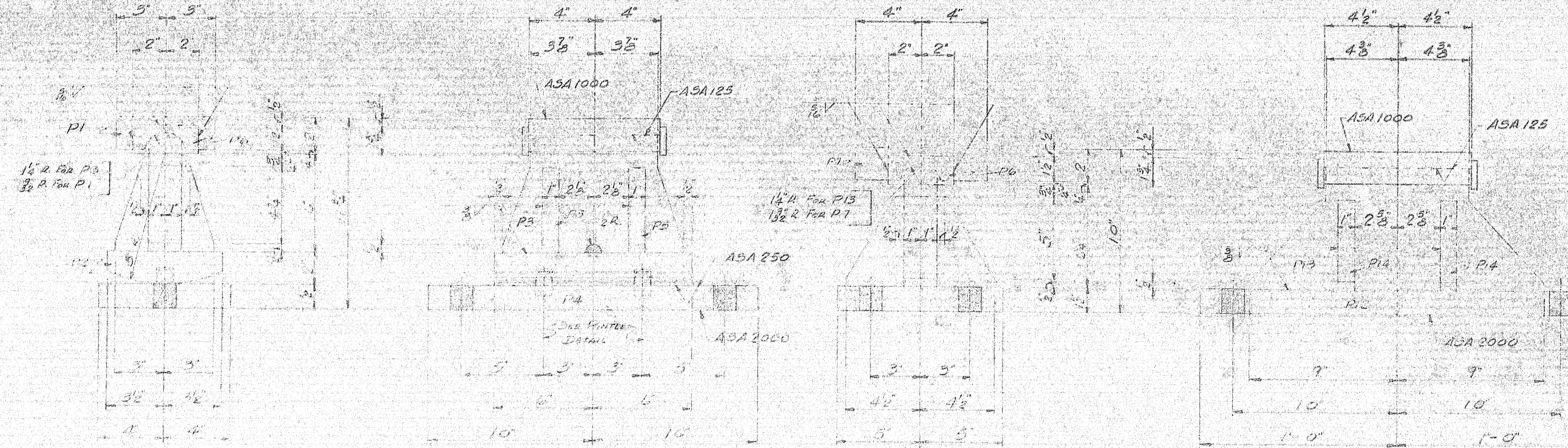
WELD - SAW-1 &
SHOP CONNECTIONS: LH-E7013 OR LH-E7023
FIELD CONNECTIONS: $\frac{3}{8}$ " H.S. BOLTS & WELD
HOLES: $\frac{1}{8}$ " ϕ U.N.
PAINT: STATE OF MAINE SPEC'S.

APP'D. 8-30-65 PROJ. No. I-95-9-(30)

STRINGER ELEVATION DIAGRAM & SPLICE DETAIL

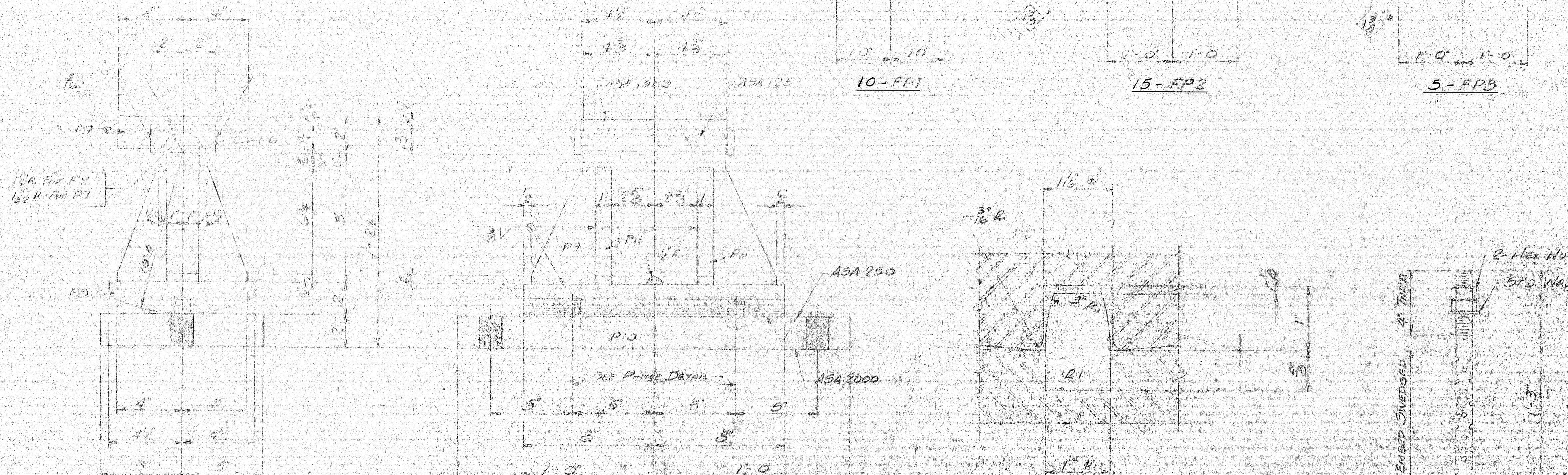
PRINT ISSUE		Bancroft & Martin Inc. Brewer, Maine	
REVISION	DATE		
3	CUST 10-11-65	RTE. 157 OVER I-95 MEDWAY, MAINE	
2	S.H.C. 9-27-65		
2	SHOP 9-27-65		
3	CUST 9-2-65	CUSTOMER CALLAHAN BROS., INC. DESIGNER M.S.H.C., BRIDGE DIVISION	
2	F.A. 8-24-65		
DRAWN	8-20-65 R.A.M.	ORDER VERBAL DWG. B65-192-E2	
REVISION			
REVISION			





10-EPC-2

5-EPC-3



15-EPC-5

70-ABI

PAINT NOTES

NO PAINT ON ANCHOR BOLTS - OIL THREADS. NO PAINT ON TOP SURFACE & 1" DOWN FROM TOP ON SIDES OF SOLE PLATES. COAT WITH BOILED LINSEED OIL. ONE COAT SHOP PAINT ON SURFACES FINISHED ASA 250. NO PAINT ON SURFACES FINISHED ASA 125, COAT WITH HOT MIXTURE OF WHITE LEAD & TALLOW.

PINTLE DETAIL

1" PRESS FIT

SHIP		BILL OF MATERIAL				DWG. 94-127-51
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
EPC-2	10		PEDESTAL			
EPC-3	15		Do			
FPC-3	5		Do			
P1	10		R-6x2	0 8		MACHINED & FINISHED A36
P2	10		R-7x2	1 0		Do Do
	10	P3	R-7x2	0 11		Do Do
P4	10		R-8x1 1/2	1 2		FINISHED
	40	P5	R-2x1	0 54		
	60	P6	R-1 1/2x3	0 4		
P7	20		R-8x2	0 9		MACHINED & FINISHED
P8	15		R-9x2	1 4		Do Do
	15	P9	R-9x2	1 3		Do Do
P10	15		R-10x2	2 0		FINISHED
	60	P11	R-3x1	0 7 1/2		
P12	5		R-10x1 1/2	2 0		FINISHED
	5	P13	R-7x2	1 6		
	20	P14	R-3x2x1	0 5 1/2		
	50	R1	ROD-1" φ	0 1 1/2		MACHINED
FP1	10		8x8	1 8		FABCO PAD 5A47
FP2	15		10x8	2 0		Do Do Do
FP3	5		Do	2 0		Do Do Do
ABI	70		ROD-1" φ	1 3		SWEDGED A36
	140		1" φ HEX NUT			
	70		1" STD WASHER			

RED. 38 1/2"

WELD WITH LH-ET033 OR LH-ET013, OR SAW-1 & PRE-
SHOP CONNECTIONS: HEAT 1" TO 2" THK. MAX TO 30" F.
FIELD CONNECTIONS: DOLT & WELD
HOLES: 1/8" φ
PAINT: STATE OF MAINE SPEC'S
300 PAINT NOTE THIS DRAWING

APP'D. AS NOTED 8-30-65

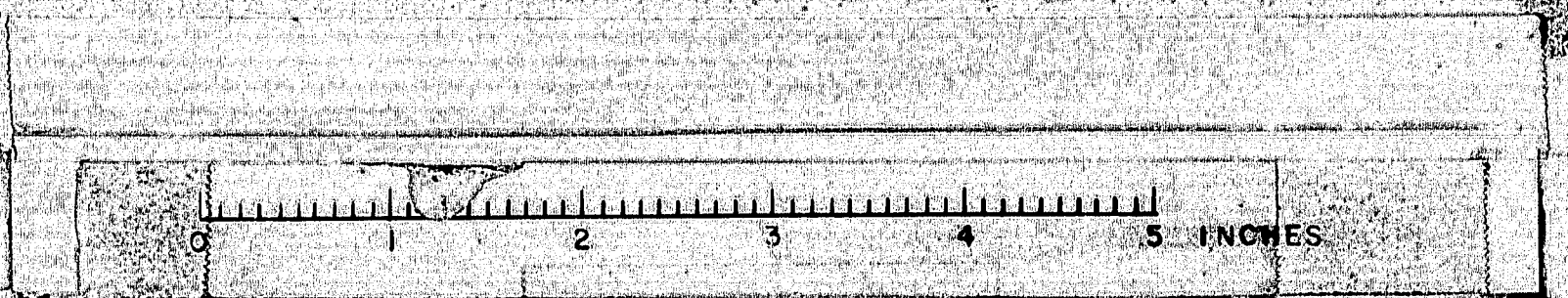
PROJ. NO. 1-95-9 (30)

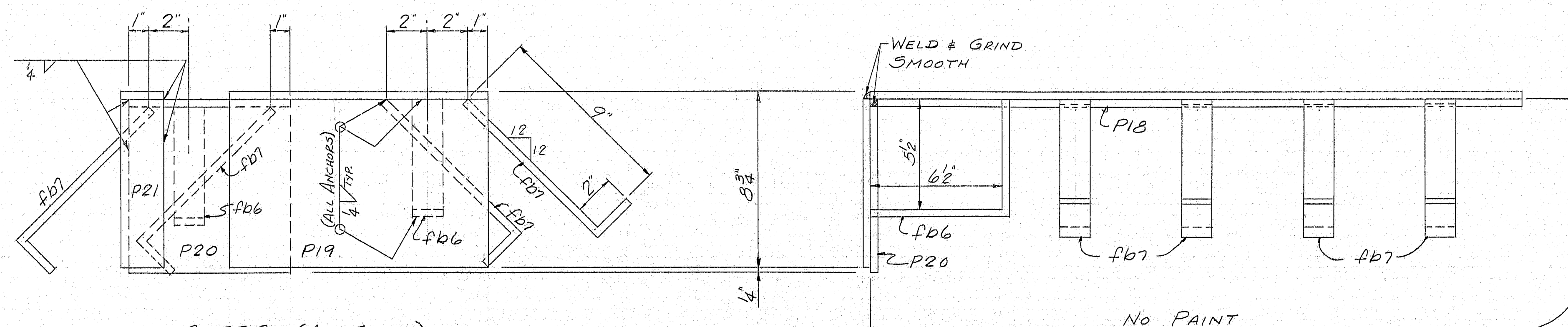
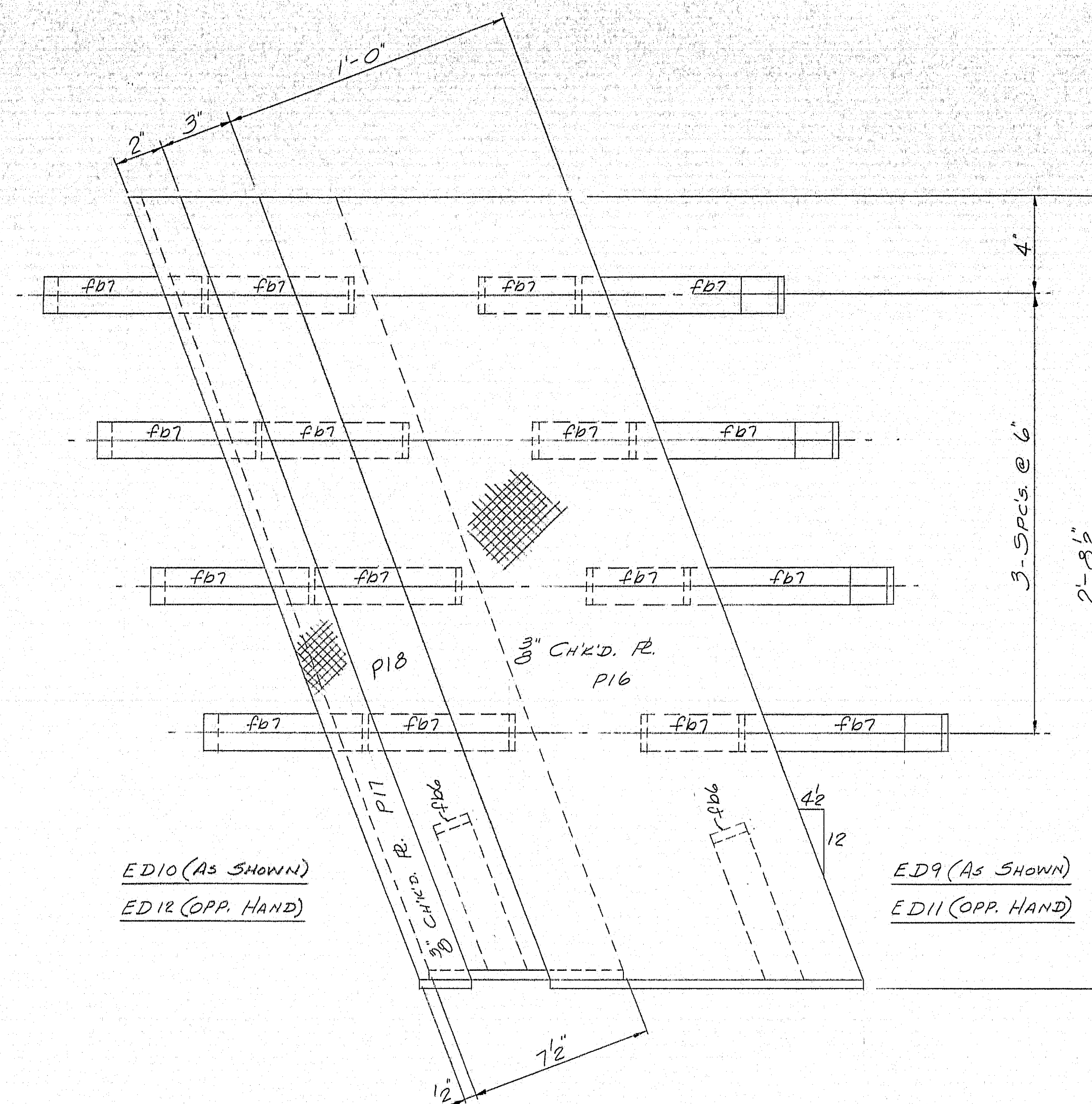
PEDESTALS

PRINT ISSUE	
4	PORT. 9-8-65
2	F.A. 8-24-65
DRAWN	8-20-65 R.A.M.
REVISION	
REVISION	

Bancroft & Martin Inc.
Brewer, Maine
RTE. 157 OVER I-95
MEDWAY, MAINE
CUSTOMER CALLAHAN BROS. INC.
DESIGNER M.S.H.C. BRIDGE DIVISION
ORDER VERBAL DWG 94-127-51

94-127





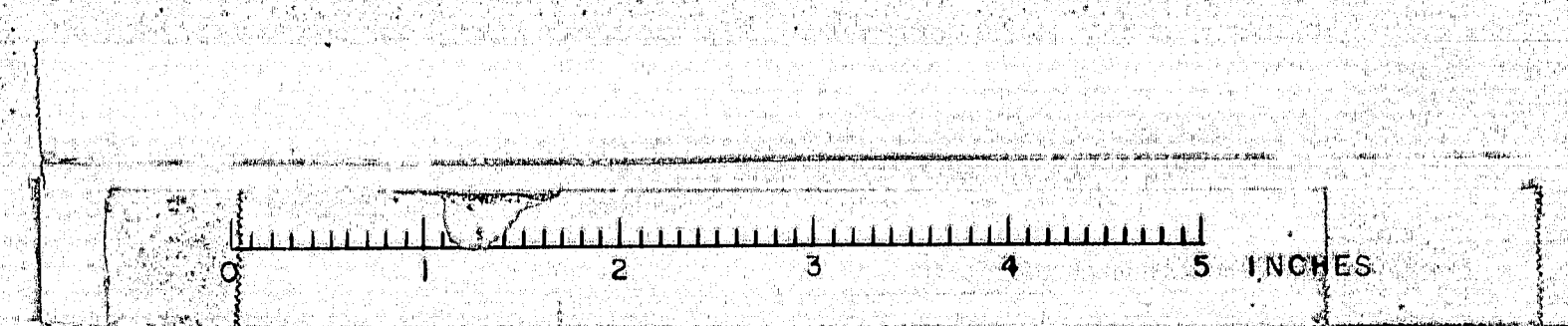
2-ED9 (AS SHOWN)
 2-ED10 (AS SHOWN)
 2-ED11 (OPP. HAND TO ED9)
 2-ED12 (OPP. HAND TO ED10)

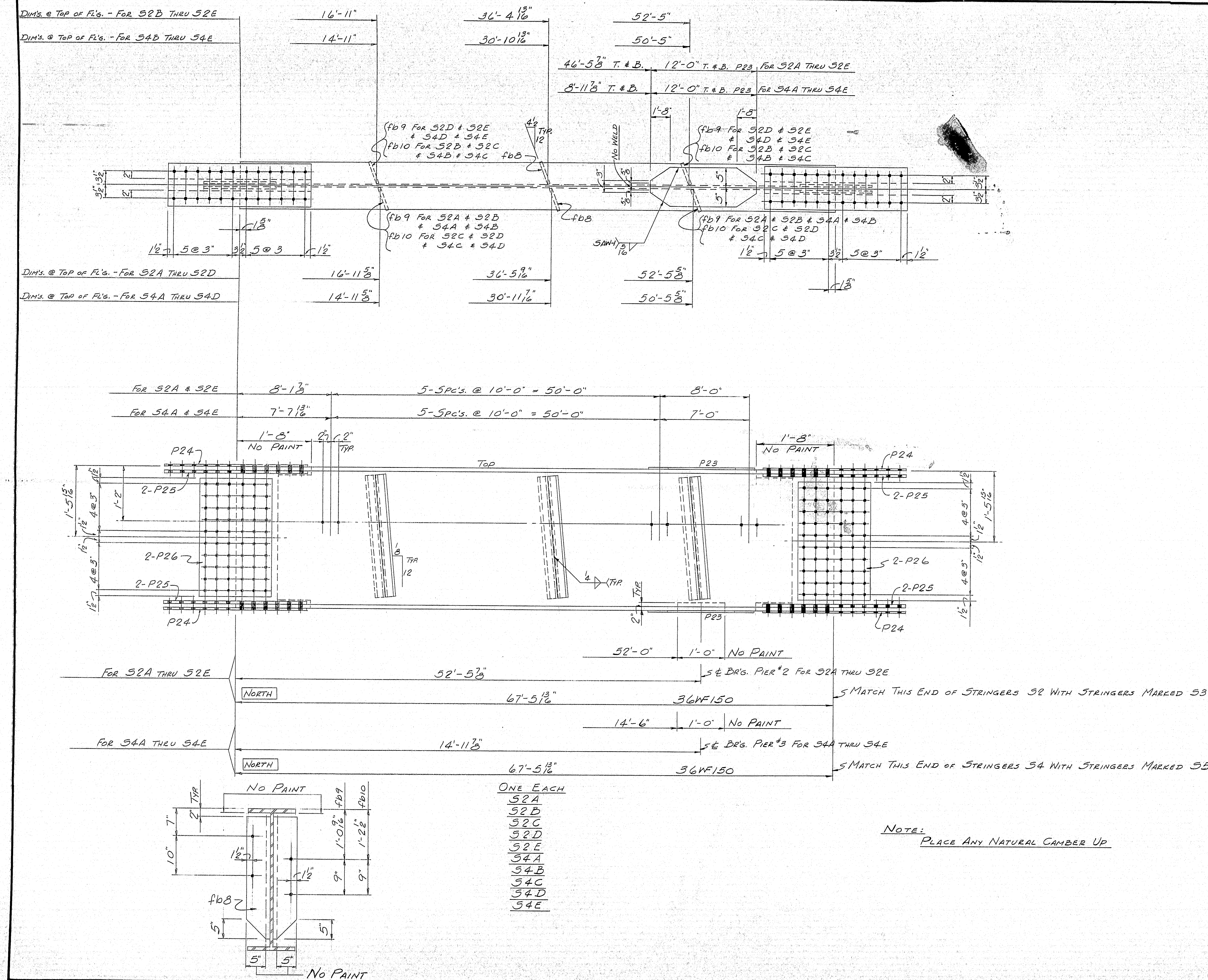
SHIP		BILL OF MATERIAL				DWG. B65-192-53
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
ED9	2		SIDEWALK EXP. DAM			
ED10	2		Do			
ED11	2		Do			
ED12	2		Do			
	4	P16	R-12x3	3 2 1/2		CHK'D. RE. A36
	4	P17	R-2x3	2 11 1/6		Do
	4	P18	R-7 1/2x3	3 0 1/6		
	4	P19	R-8 3/4x3	1 0 1/2		
	4	P20	R-8 x3	0 8 1/4		
	4	P21	R-2 1/2x3	0 8 3/4		
	8	F66	BAR-1 1/2x3	1 0		BENT
	64	F67	Do	0 11		Do

SHOP CONNECTIONS: WELD-LH-E701B OR LH-E702B
 FIELD CONNECTIONS:
 HOLES: NONE
 PAINT: STATE OF MAINE SPEC'S.

APP'D. 8-30-65	PROJ. NO. I-95-9 (30)
SIDEWALK EXPANSION DAMS	
PRINT ISSUE	
Bancroft & Martin Inc. Brewer, Maine	
Rte. 157 OVER I-95 MEDWAY, MAINE	
CUSTOMER CALLAHAN BROS., INC. DESIGNER M.S.H.C., BRIDGE DIVISION	
ORDER VERBAL DWG. B65-192-53	
2 S.H.C. 9-2-65	
3 CUST. 9-2-65	
5 SHOP 9-2-65	
2 F.A. 8-24-65	
DRAWN 8-24-65 R.A.M.	
REVISION	
REVISION	
REVISION	

94-128



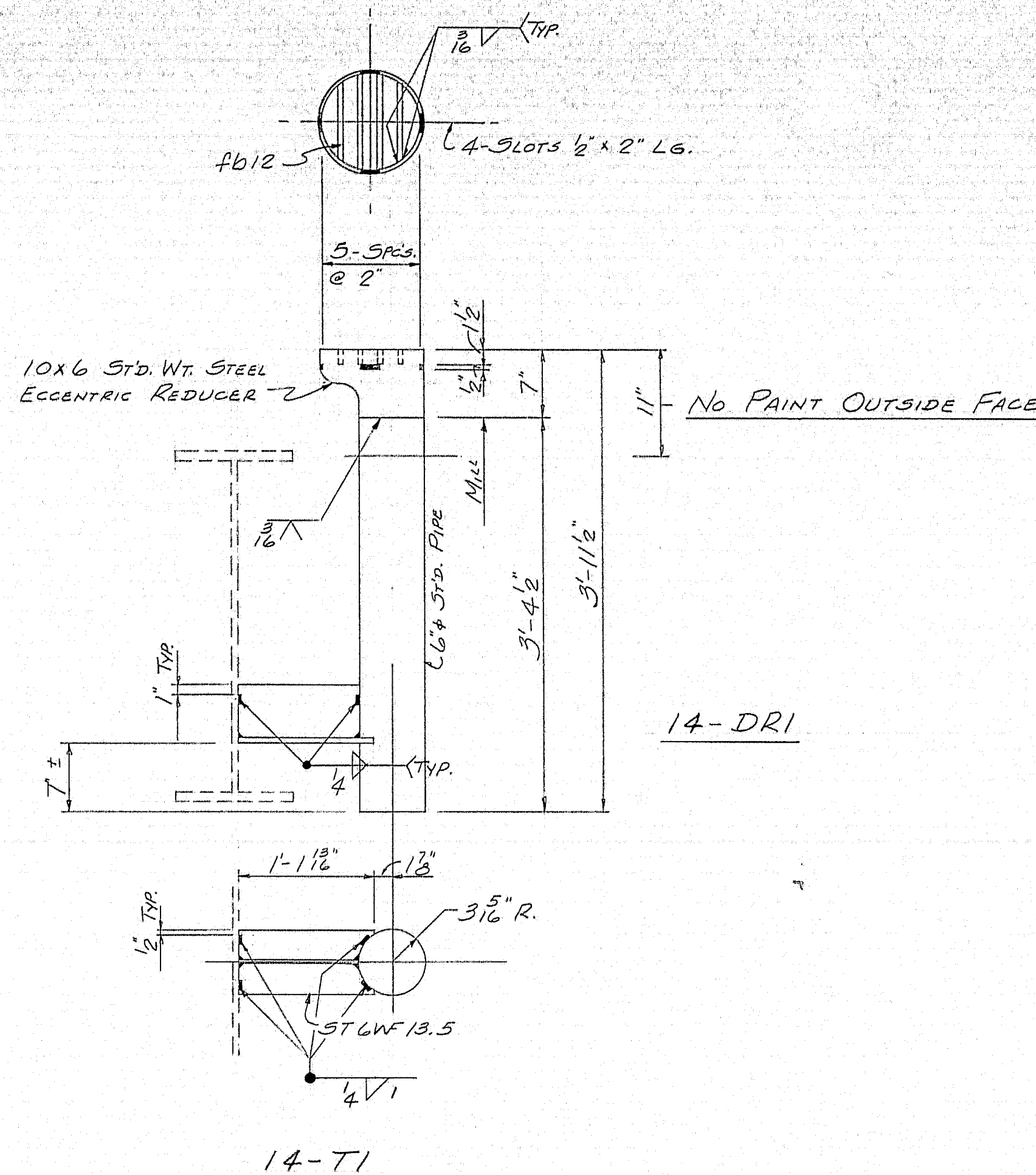
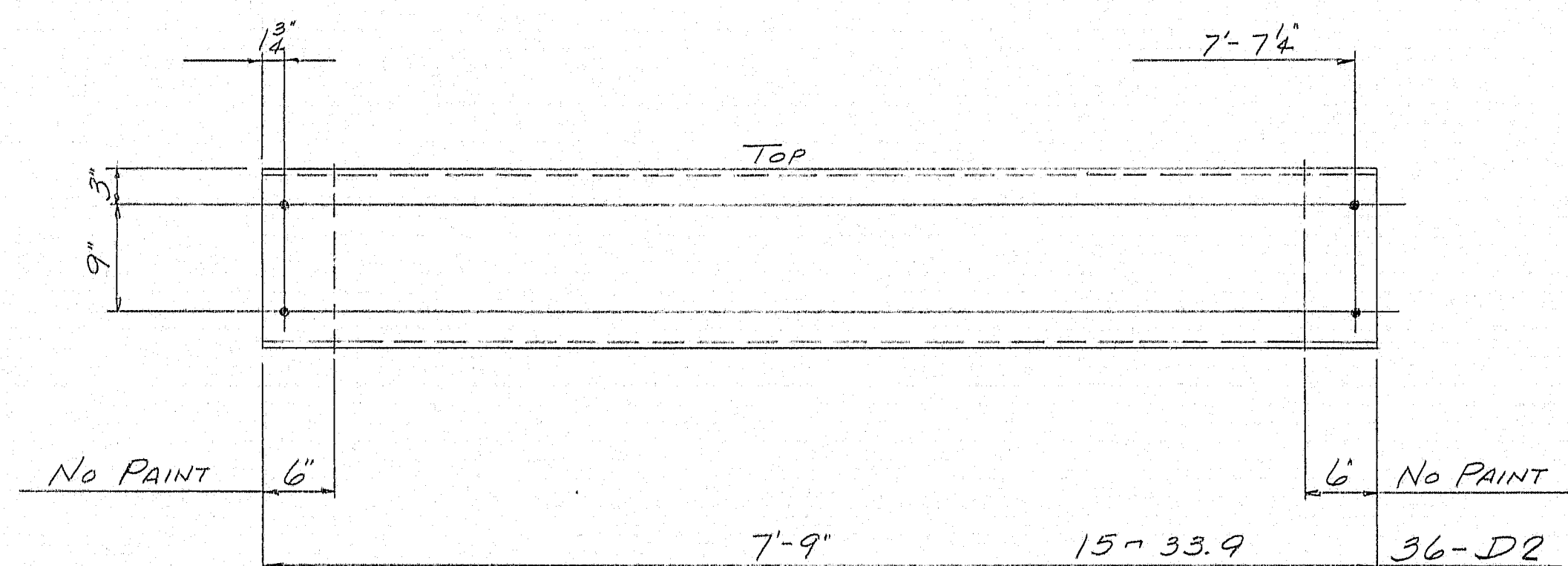


SHIP		BILL OF MATERIAL				DWG. B65-192-55
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
52A	1		36WF150	67' 5 1/2"		A36
52B	1		Do	67' 5 1/2"		
52C	1		Do	67' 5 1/2"		
52D	1		Do	67' 5 1/2"		
52E	1		Do	67' 5 1/2"		
54A	1		Do	67' 5 1/2"		
54B	1		Do	67' 5 1/2"		
54C	1		Do	67' 5 1/2"		
54D	1		Do	67' 5 1/2"		
54E	1		Do	67' 5 1/2"		
	16	fb8	BAR-6x3/4	2	7	
	16	fb9	Do	2	7	
	16	fb10	Do	2	7	
	20	P23	R-10x1/2	12	0	
	40	P24	R-11x1/2	3	0 1/2	
	80	P25	R-4x1/2	3	0 1/2	
	40	P26	R-18x2	2	6	

WELD - SAW-1 &
 SHOP CONNECTIONS: LH-ET01B OR LH-ET02B
 FIELD CONNECTIONS: 3/8" H.S. BOLTS & WELD
 HOLES: 1/8" &
 PAINT: STATE OF MAINE SPEC'S.

APP'D. 9-15-65	PROJ. NO. I-95-9 (30)
STRINGERS	SPAN #2 & SPAN #4
PRINT ISSUE	
2 SH.C. 9-27-65	Bancroft & Martin Inc.
3 CUST. 9-27-65	Brewer, Maine
5 SHOP 9-27-65	RTE 157 OVER I-95
2 FA. 9-2-65	MEDWAY, MAINE
DRAWN B-30-65 R.A.M.	CUSTOMER CALLAHAN BROS., INC.
REVISION	DESIGNER M.S.H.C., BRIDGE DIVISION
REVISION	ORDER VERBAL
REVISION	DWG. B65-192-55

9-131



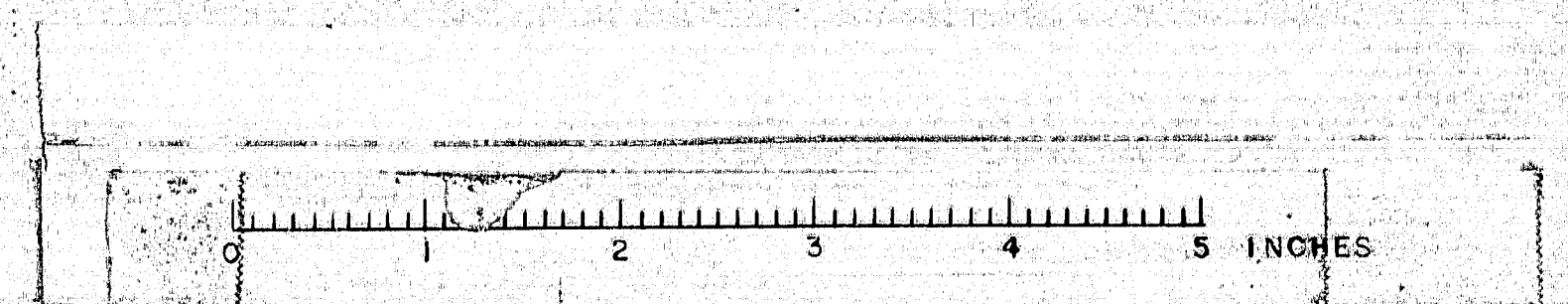
SHOP CONNECTIONS: WELD - LH-E7018 OR LH-E7023
FIELD CONNECTIONS: WELD & 5" ϕ MACH. BOLT
HOLES: 1 1/2" ϕ
PAINT: STATE OF MAINE SPEC'S.

PROJ. No. I-95-9 (30)

DIAPHRAGMS & DRAINS

PRINT ISSUE		Bancroft & Martin Inc.	
		Brewer, Maine	
2	S.H.C. 9-27-65	RTE. 157 OVER I-95	
3	CUST. 9-27-65	MEDWAY, MAINE	
5	SHOP 9-27-65		
2	F.A. 9-2-65		
DRAWN	9-2-65 R.A.M.	CUSTOMER <u>CALLAHAN BRO'S, INC.</u>	
REVISION		DESIGNER <u>M.S.H.C. BRIDGE DIVISION</u>	
REVISION			
REVISION		ORDER <u>VERBAL</u>	DWG. <u>665-192-58</u>

4-137



INDEX OF SHEETS

Sheet	Title
1	General Plan and Elevation, Index
2	Foundation Survey
3	Abutment #1
4	Abutment #2
5	Abutment Details
6	Piers
7	Structural Steel
8	Beam Grades and Blocking
9	Superstructure-1
10	Superstructure-2
11	Superstructure-3
12	Superstructure-4
13	Approach Slab, Top Sections and Grades
14	Bridge Quantities
15	Reinforcing Steel Schedule
16	Slope Paving

STANDARD DETAIL SHEETS	
BD-101-64	Bearing Pedestals
BD-103-64	Beam Splices
BD-104-64	Diaphragms, Armored Joint, Shear Connectors, Drains
BD-105-64	Expansion Dams
BD-107-64	Steel Rail
BD-108-64	Aluminum Rail
Engineers Field Office	

SPECIFICATIONS

DESIGN:

A.A.S.H.O. Standard Specifications for Highway Bridges, 1961, with Interim Specifications 1961, 1962, 1963, 1964.

CONTRACT:

State of Maine, State Highway Comm., Standard Specifications for Highways and Bridges, Revision of Jan. 1956 and Supplemental Specifications dated Feb. 1960.

LIVE LOADING

HS20-44

ALLOWABLE STRESSES

CONCRETE:

($m=10$) $f_c = 1200$ psi

REINFORCING STEEL:

Intermediate grade $f_s = 20,000$ psi

STRUCTURAL STEEL:

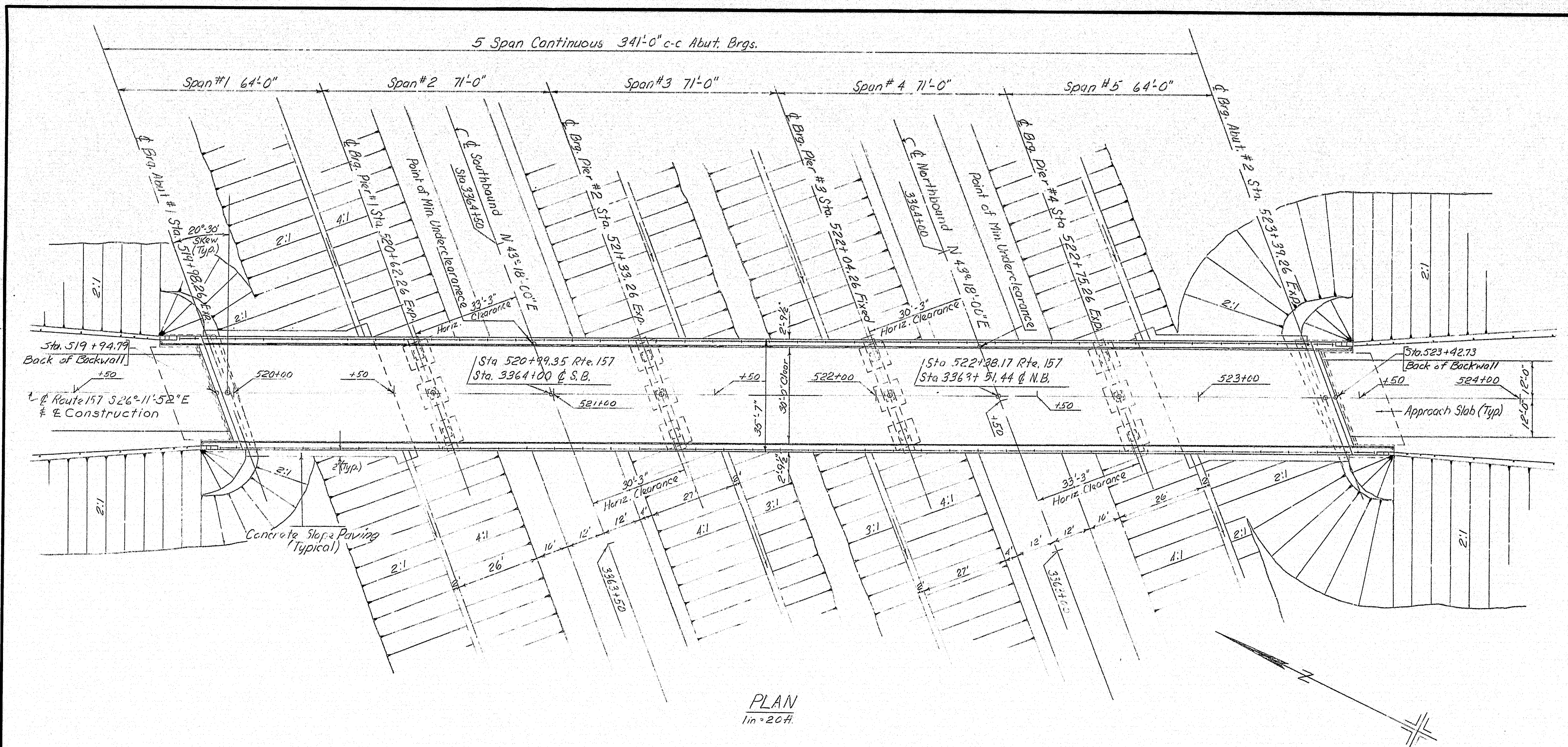
A36 $f_s = 20,000$ psi

CONCRETE CLASSIFICATION

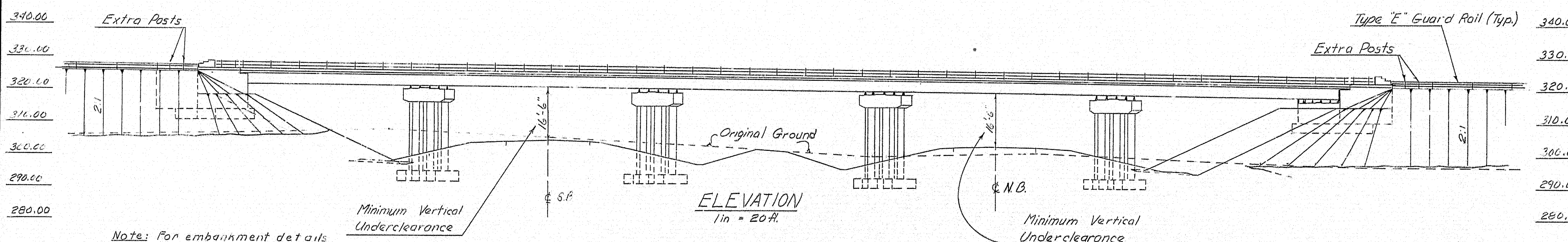
All Concrete Class "A" except Slope Paving which is Class "Y".

STRUCTURAL STEEL CLASSIFICATION

All structural steel shall conform to the latest revision of the Specification A.S.T.M. Designation A36 unless otherwise noted on the Standard Details.



PLAN
1 in = 20 ft.



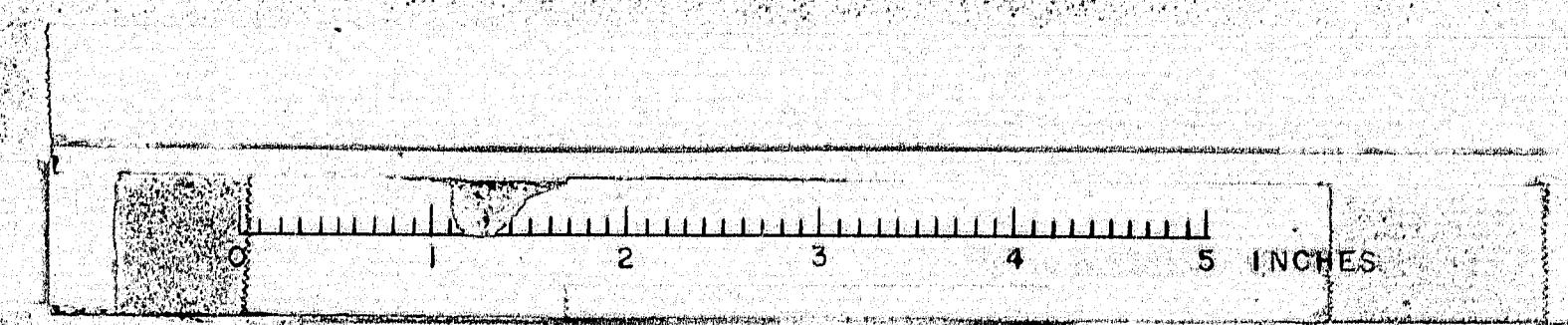
ELEVATION
1 in = 20 ft.

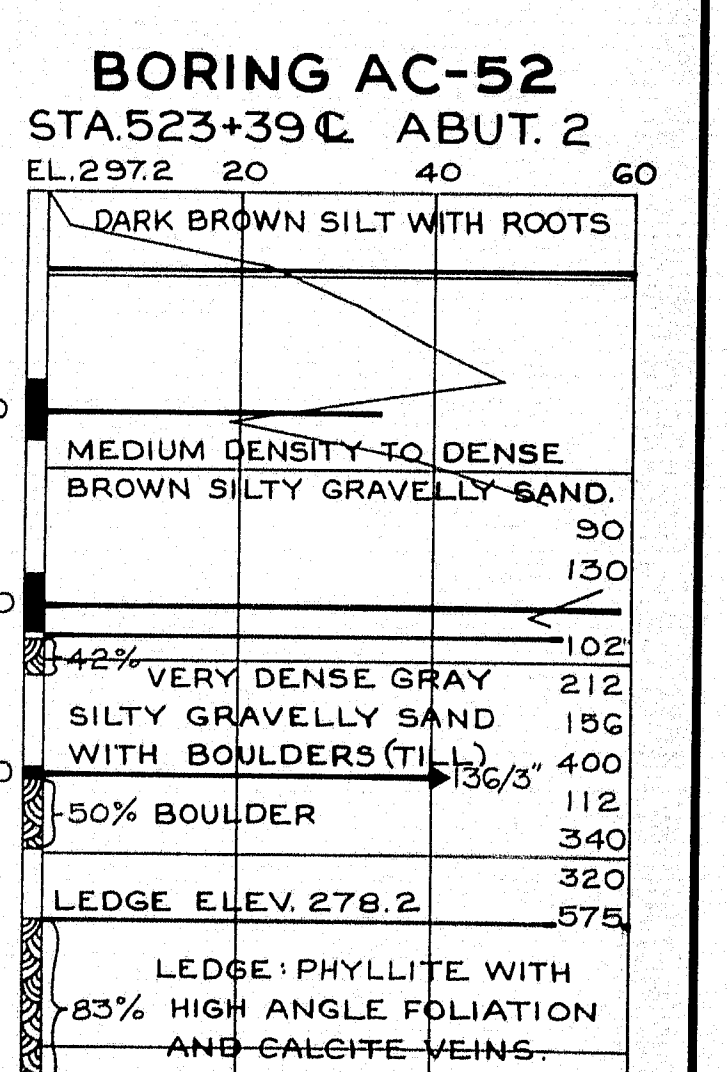
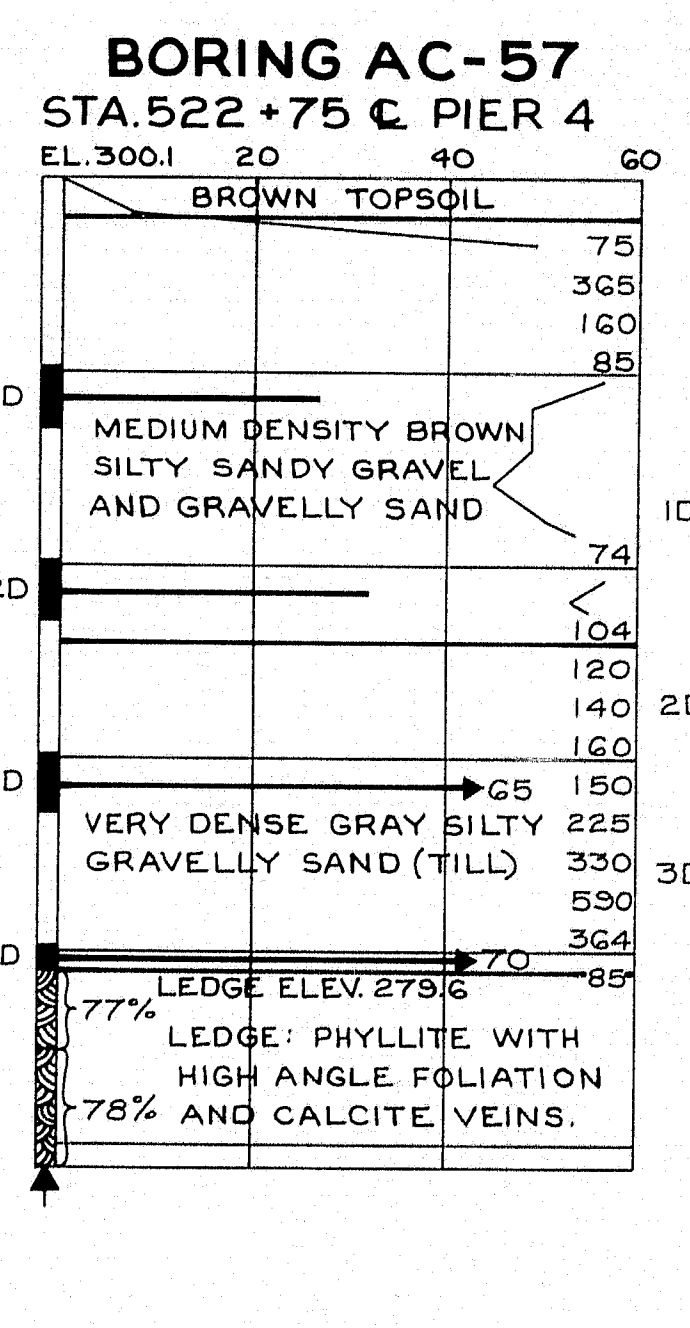
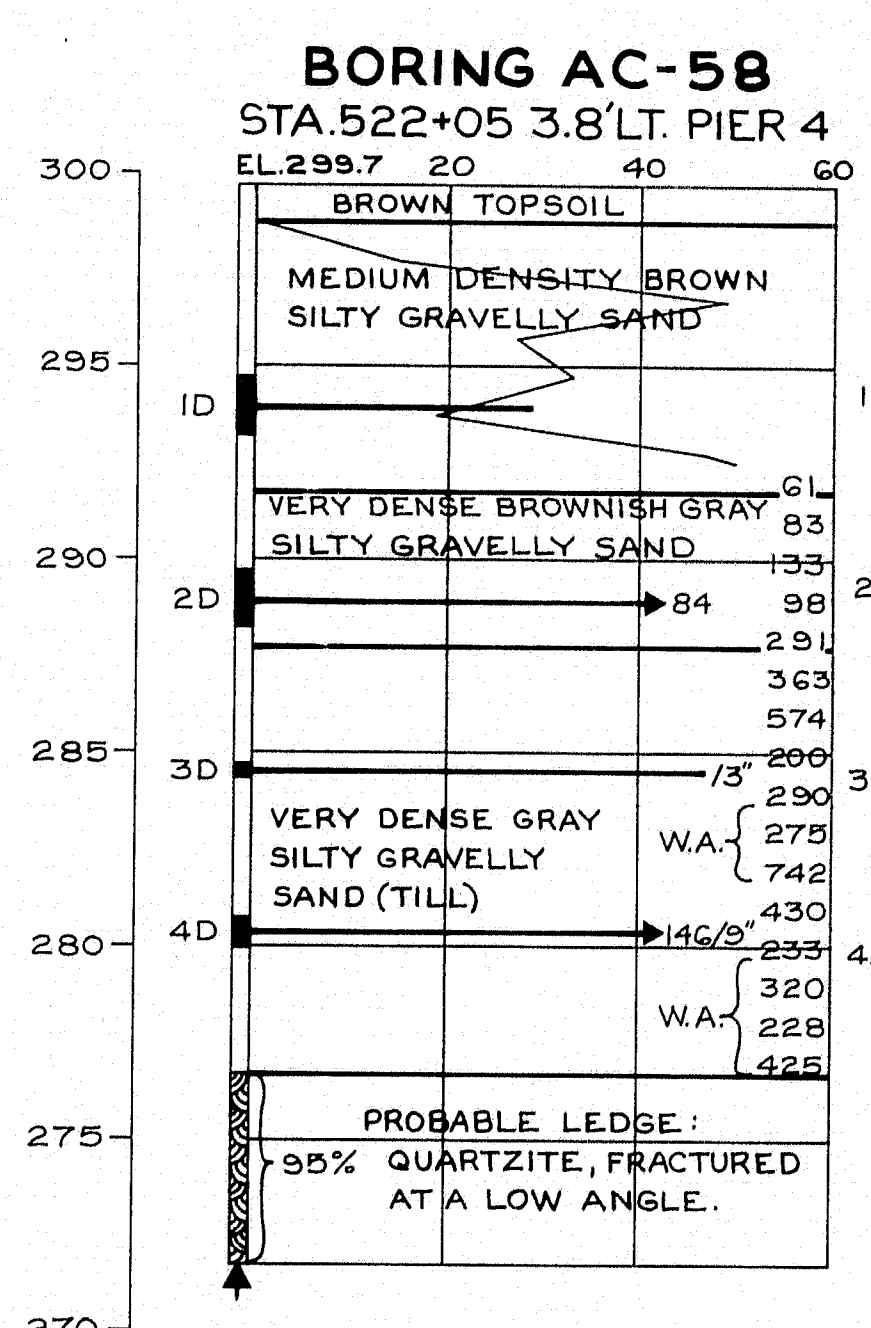
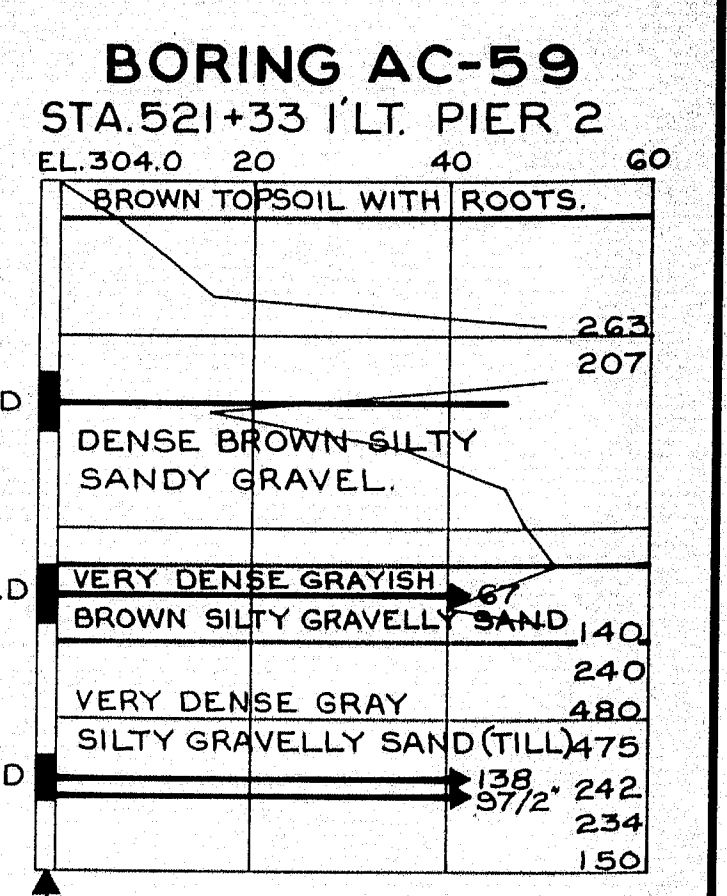
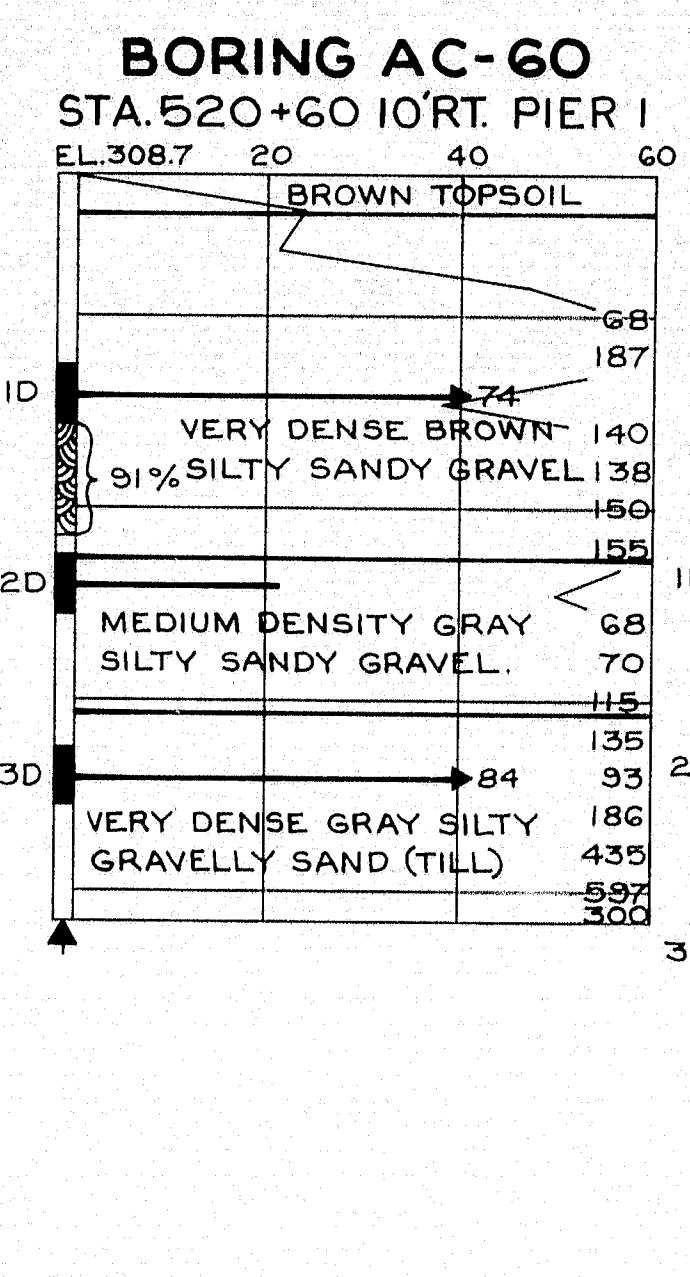
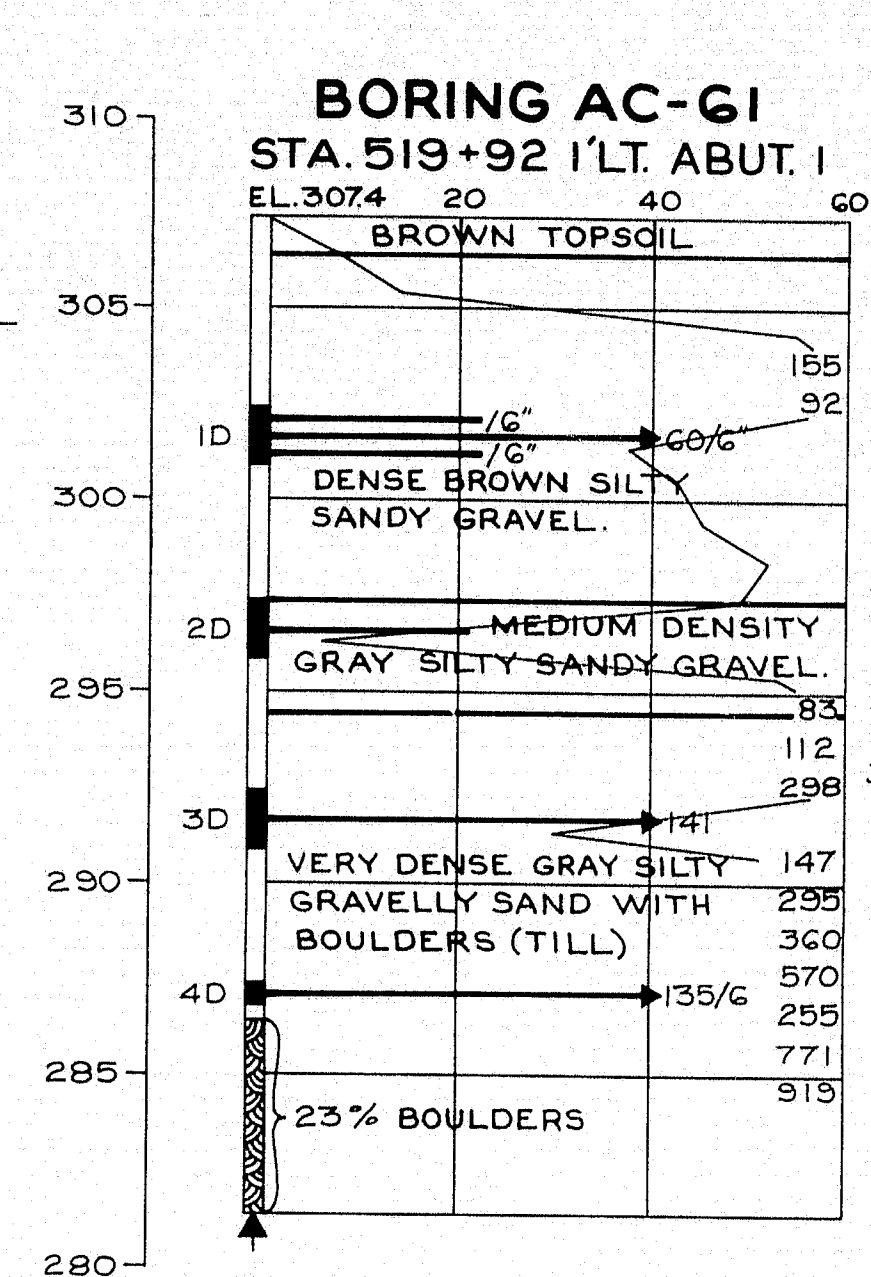
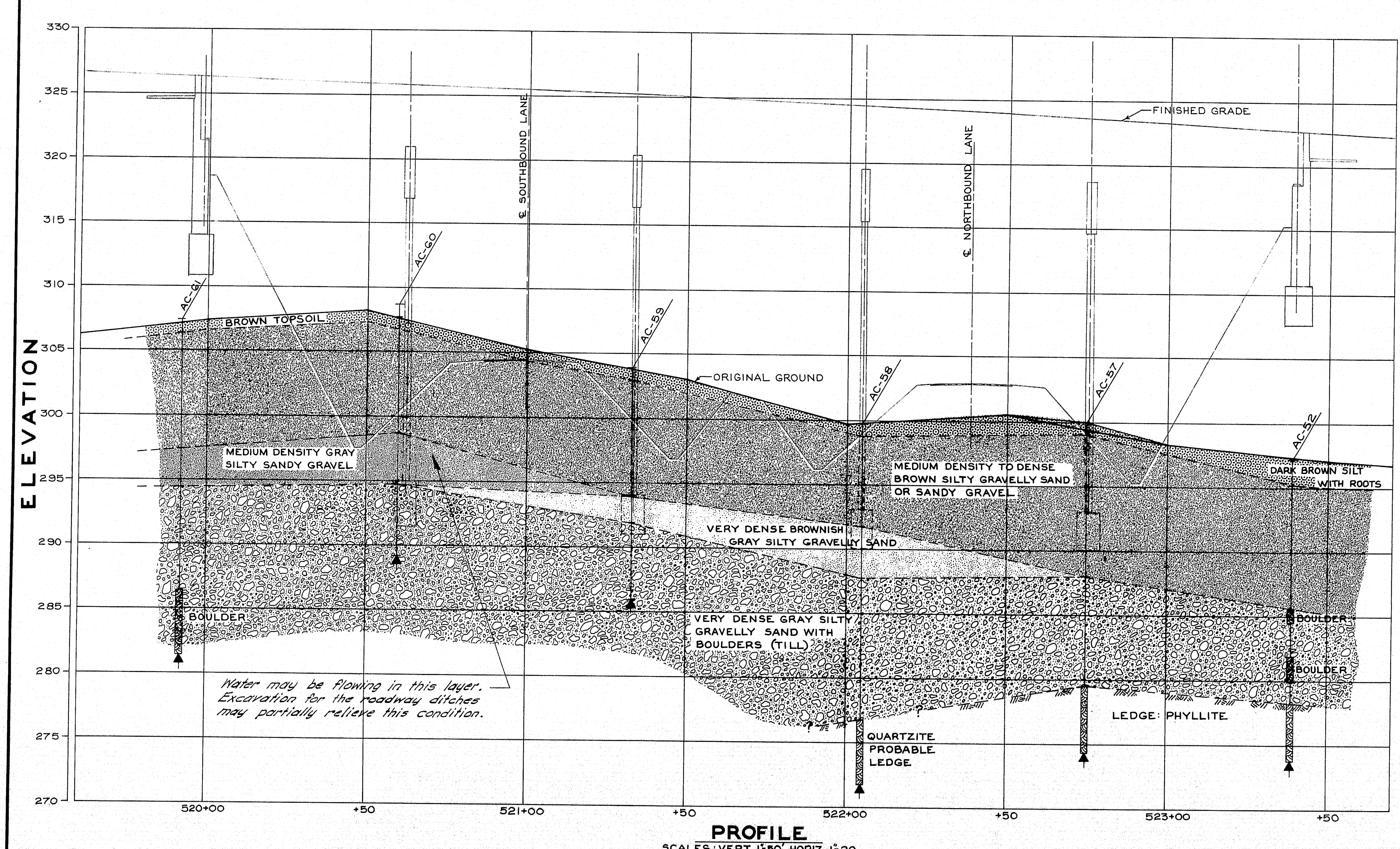
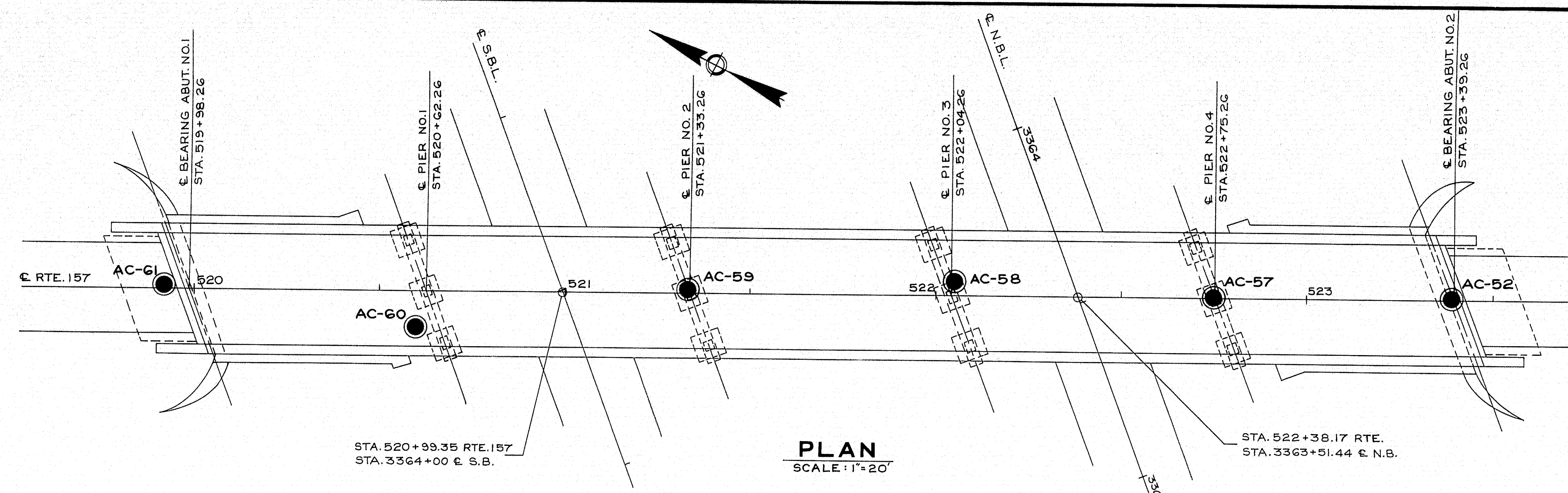
Note: For embankment details in vicinity of Abutments see Sheet 5.

NOTE: The Controlled Density Method shall be used for placing all embankments between Stations 519+40 and 524+10.

DESIGN-A.H.R. TRACE & DETAIL T.W.R. CHECK	BRIDGE NO. SURVEY- PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ROUTE 157 OVER INTERSTATE 95 IN THE TOWN OF MEDWAY PENOBSCOT COUNTY	
GENERAL PLAN & ELEVATION, INDEX	
SHEET 1 OF 15 AUGUSTA, MAINE DEC. 1964	

M-2443





BORING NOTES

CASING SIZE 2 1/2" WASHED AHEAD BEFORE DRIVING CASING. NUMBER OF BLOWS REQUIRED TO DRIVE EXTRA HEAVY CASING ONE FOOT WITH 400 FT. LBS. OF ENERGY PER BLOW.

ALL SAMPLES ARE MADE AHEAD OF CASING. LOCATION OF SAMPLE OR SAMPLE ATTEMPT. NUMBER AND TYPE OF DRY SAMPLE.

S & H SAMPLER #1290'S. NUMBER OF BLOWS REQUIRED TO DRIVE SPOON ONE FOOT WITH 350 FT. LBS. OF ENERGY PER BLOW.

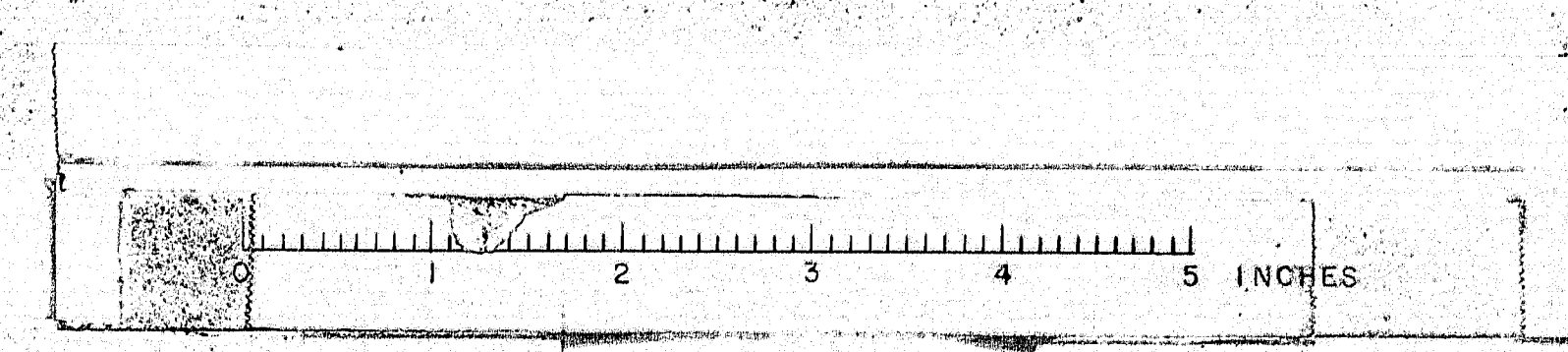
BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA) LOCATIONS CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK.

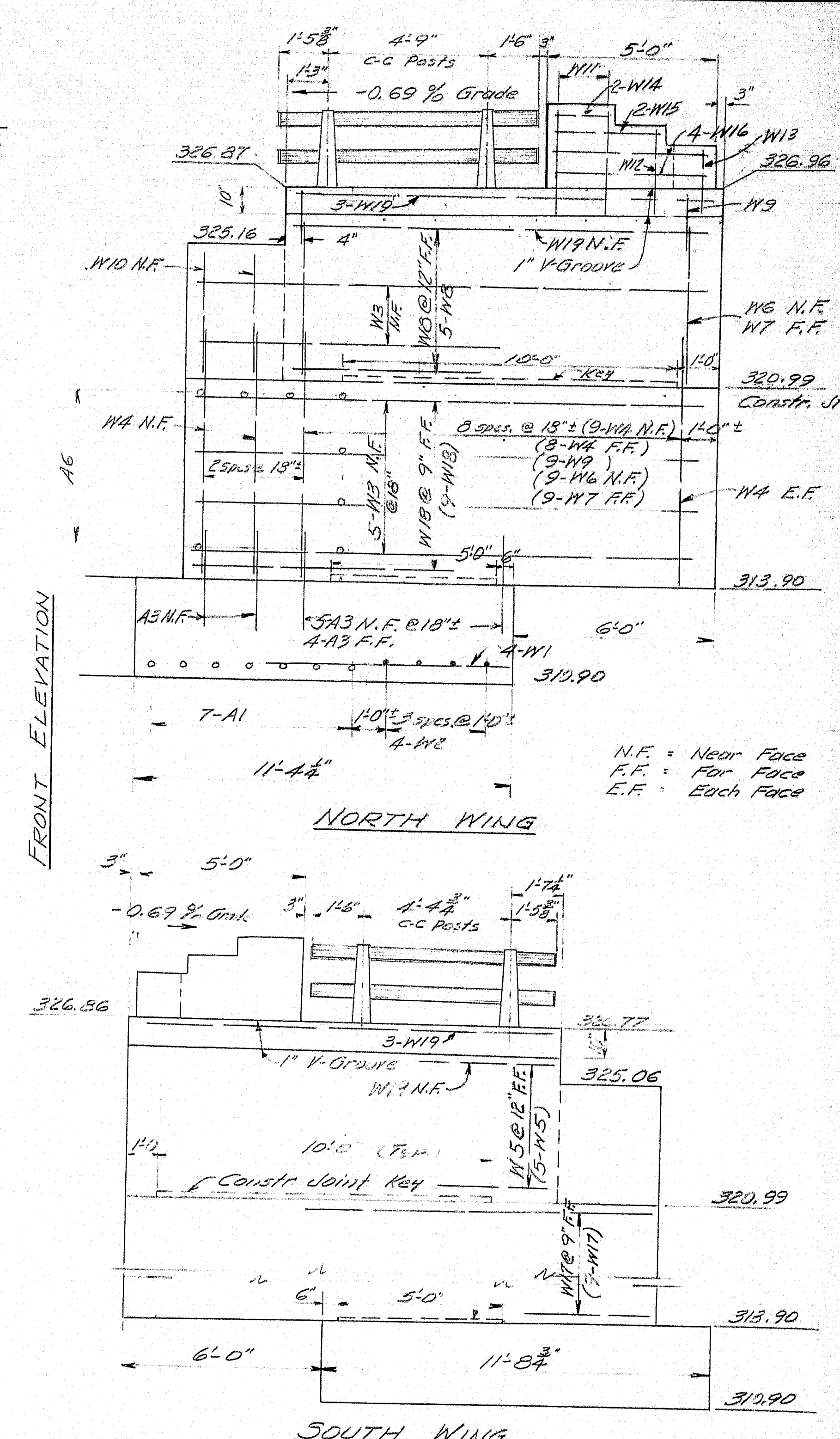
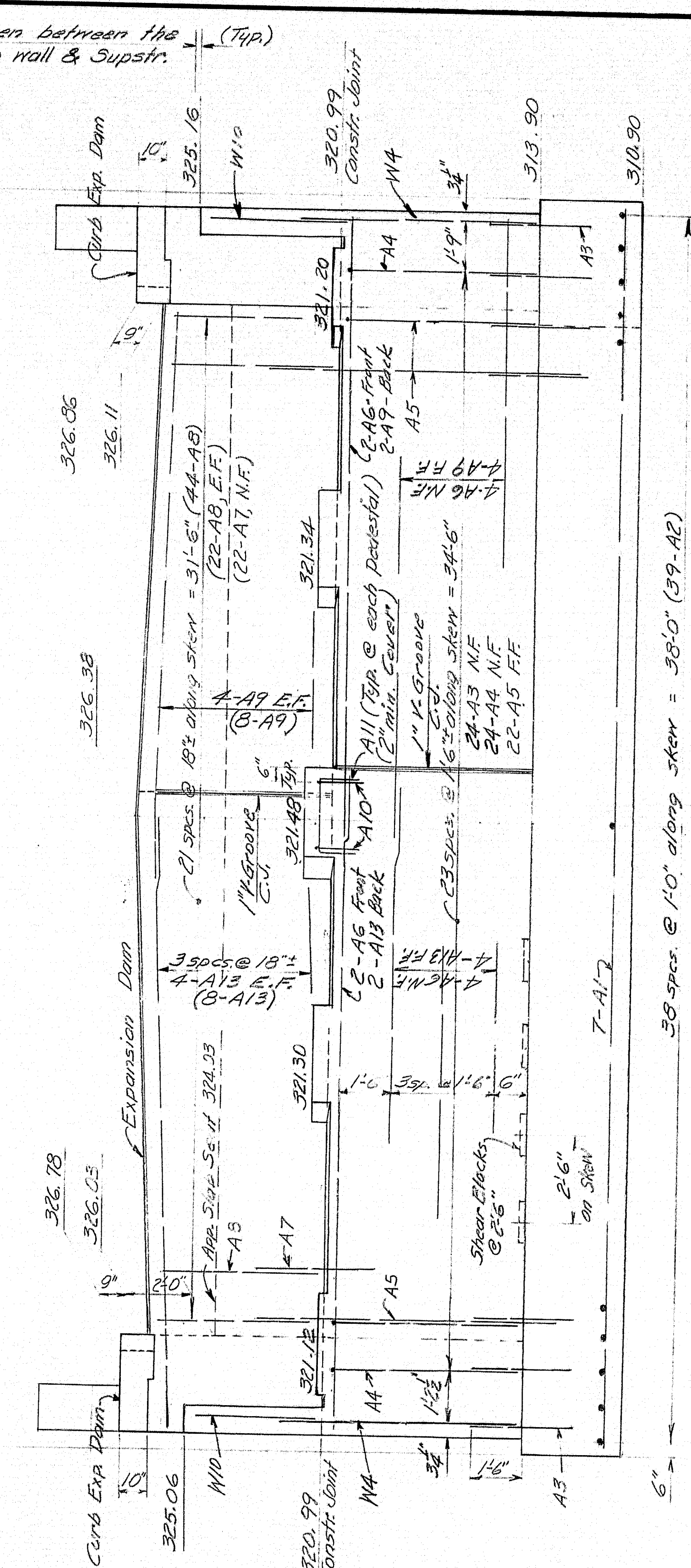
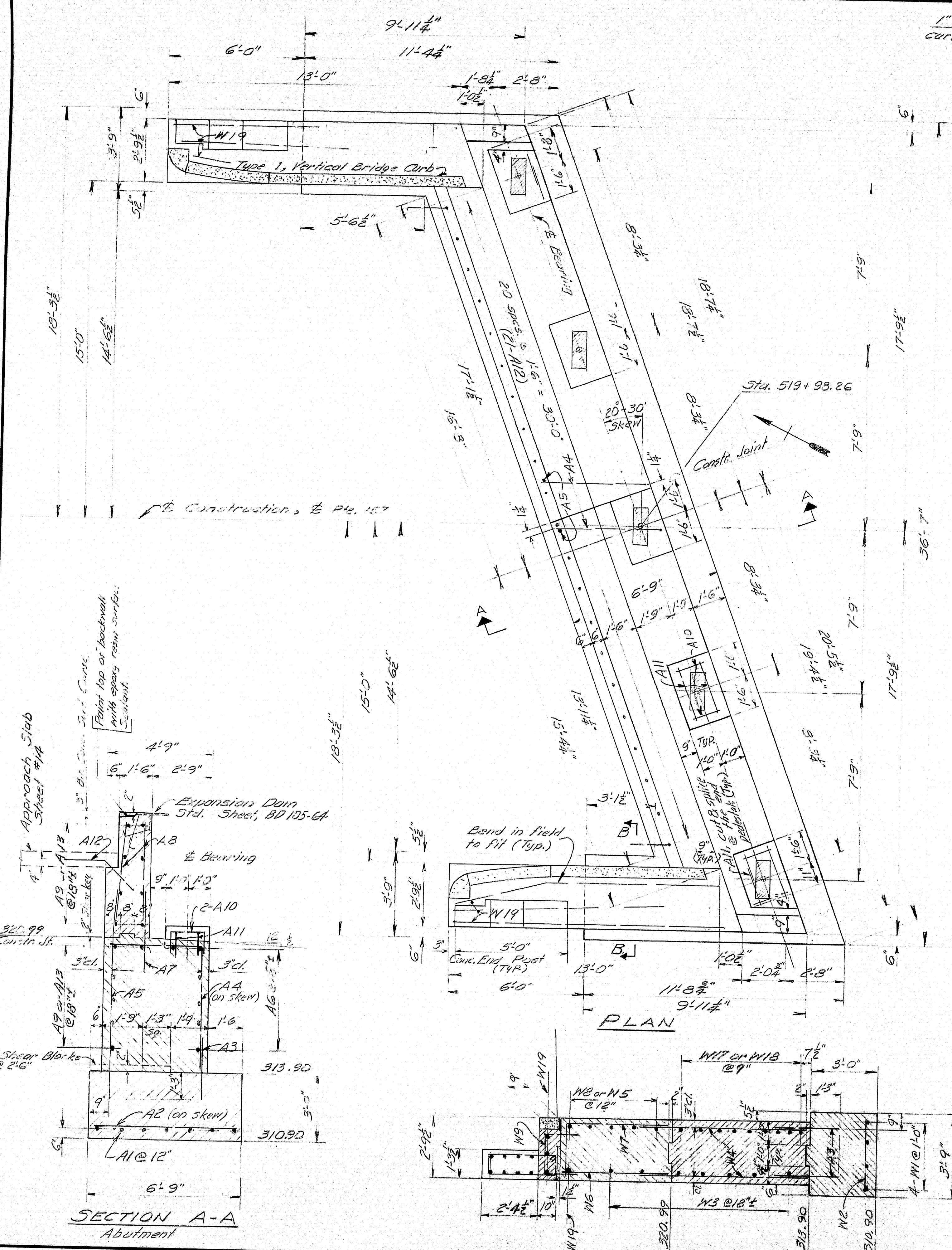
DESIGN—
TRACE—
CHECK—

BRIDGE NO. SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ROUTE NO. 157
OVER
INTERSTATE 95
IN THE TOWN OF
MEDWAY
PENOBSCOT COUNTY
FOUNDATION SURVEY



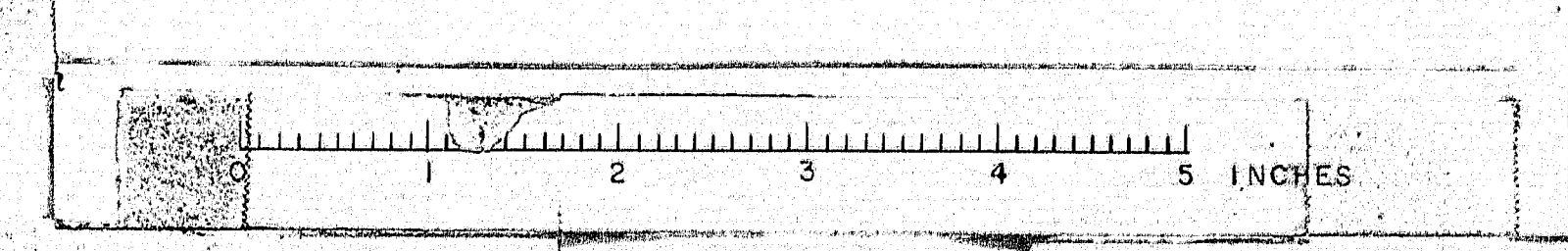


- NOTE: Revisions of Abutment 1 are shown on Sheet 3A.
- GENERAL NOTES:
1. Reinforcing Steel to have 3" min. concrete cover unless noted.
 2. For Details of Vertical Bridge Curb Type 1, Constr. Joint 1" V-Groove, & Concrete End Post see sheet #16
 3. Reinforcing Steel, same for both abutments.
 4. For Bridge Rail see sheet #10, & BD 107-64, BD 108-64
 5. Maximum Footing Pressure = 3.0 Tons per square foot.

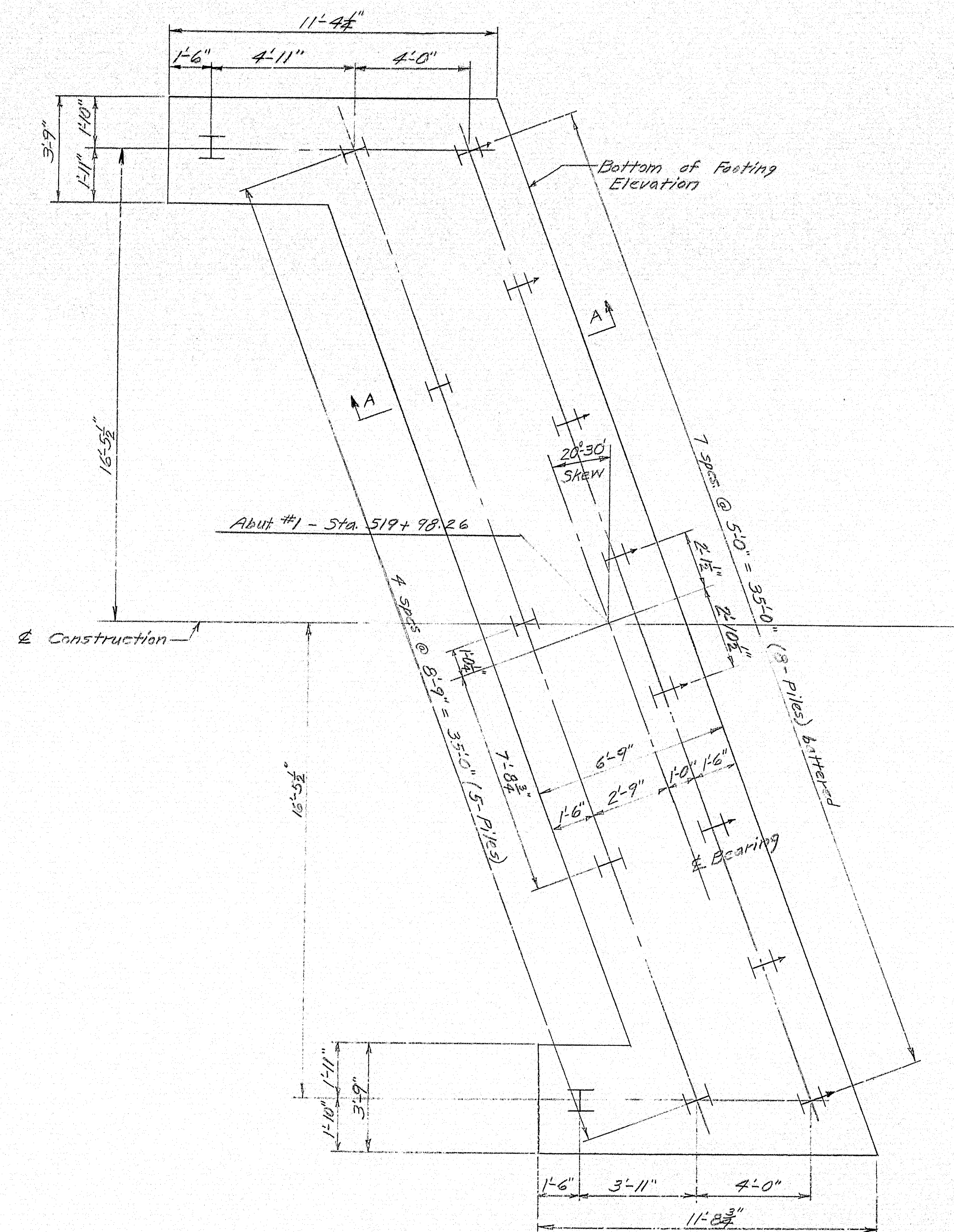
6. Point face of backwall, the top, ends, and face of bridge seat, with Epoxy Resin Surface Sealant, down to 1'0" below shelf elevation of slope parking.

DESIGN - A.H.R. TRACE & DETAIL - G.W.C. CHECK - G.W.C.	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION ROUTE 157 OVER INTERSTATE 95 IN THE TOWN OF MEDWAY PENOBSCOT COUNTY ABUTMENT 1	
SHEET 3 OF 15 AUGUSTA, MAINE DEC. 1964	

M-2445

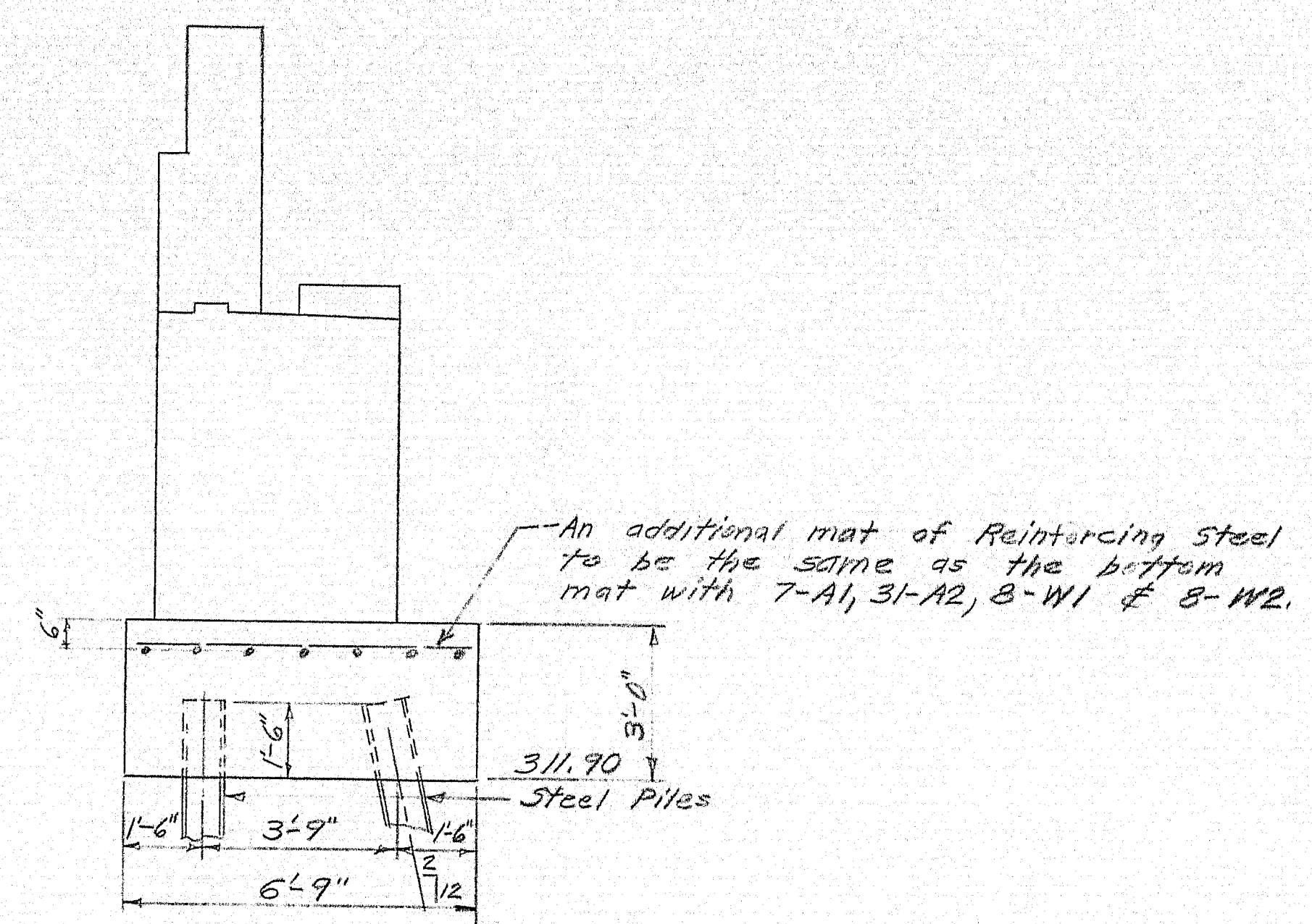


B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



PILE PLAN

PILE NOTES
 15 10B P42 Required
 Estimated Length = 30' per Pile
 † Denotes pile to be battered 2" per foot
 Maximum Actual Load per Pile = 37 tons

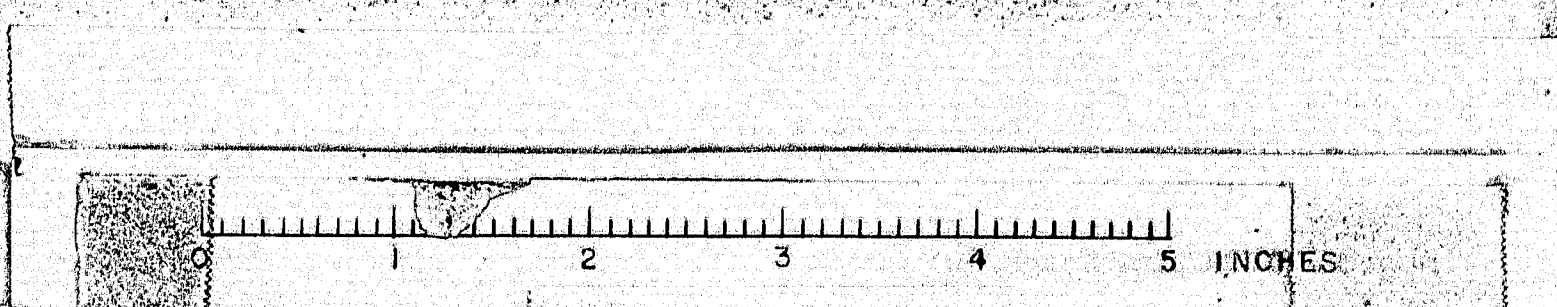


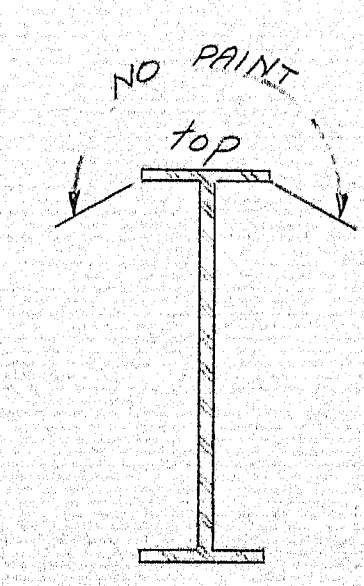
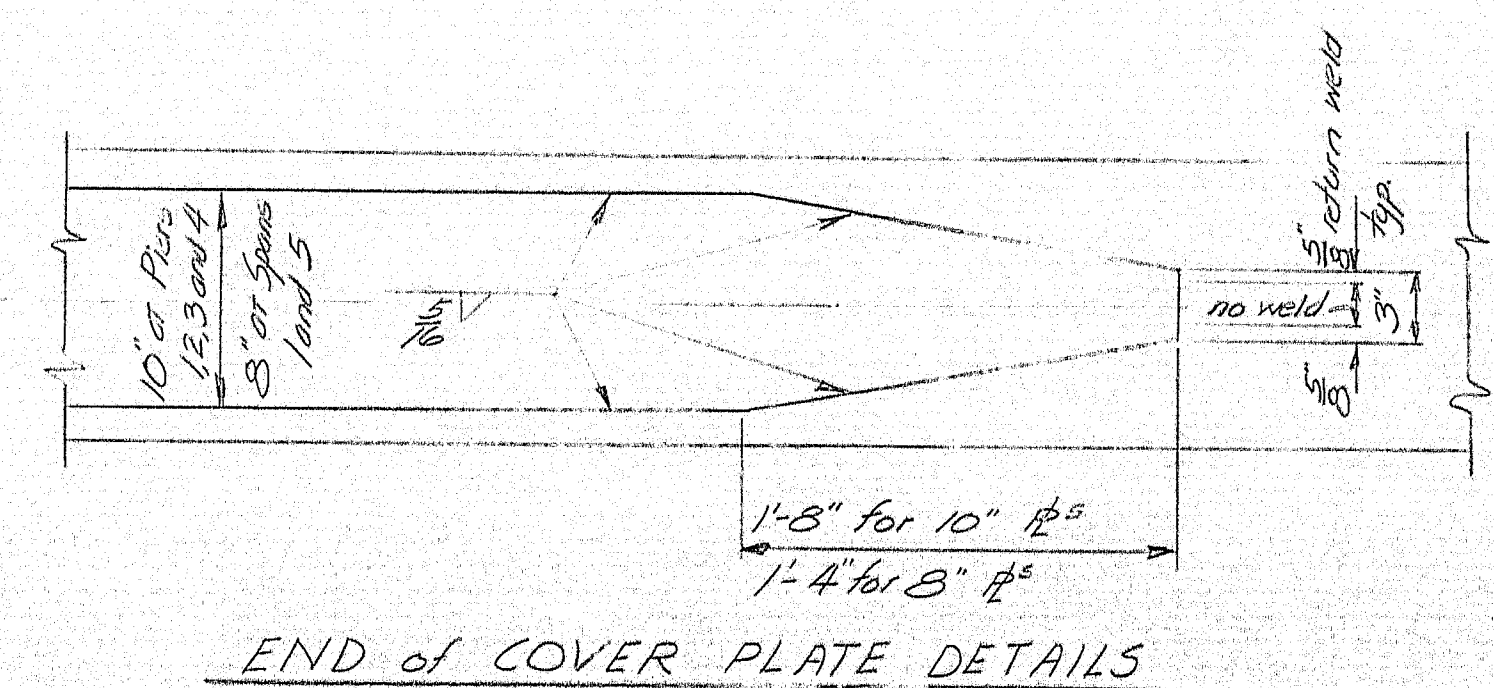
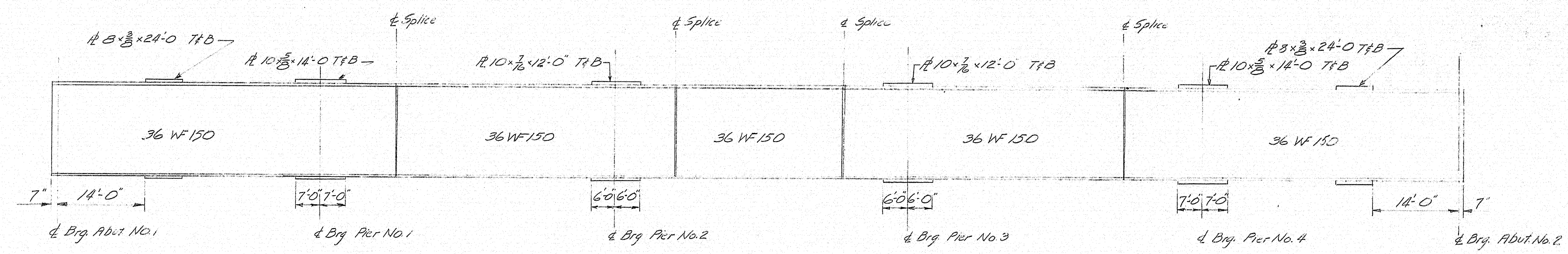
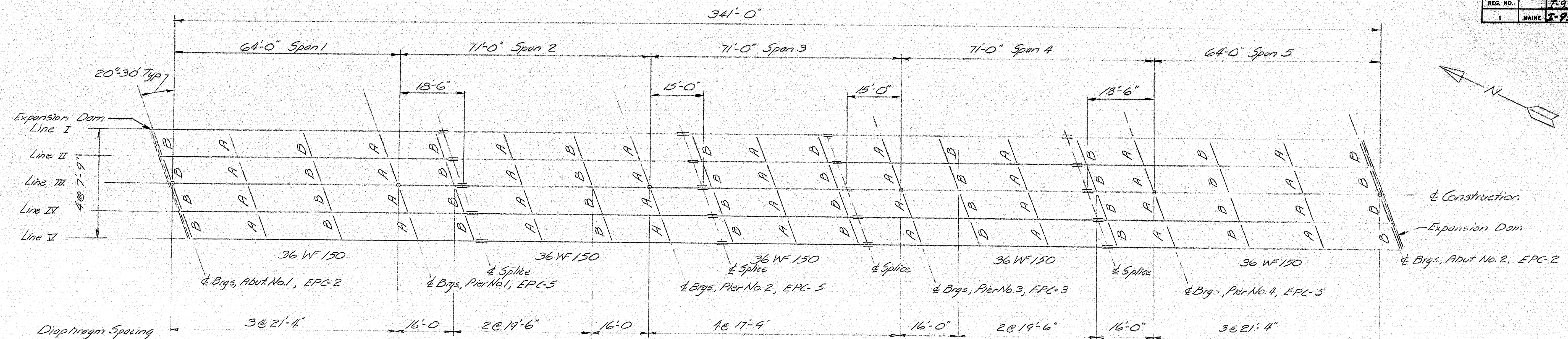
SECTION A-A

NOTE: Gravel Barrow shall be compacted by the "Control Density Method". 98% Compaction is not required. No rocks larger than 6" in diameter shall be used and concentration of stones of any size shall be avoided.

DESIGN - A.H.R. TRACE - CHECK - EAS	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ROUTE 157 OVER INTERSTATE 95 IN THE TOWN OF MEDWAY PENOBSCOT COUNTY	
Revisions of Abutment 1 -	
SHEET 3A OF	AUGUSTA, MAINE AUG. 1965

M-2446





REFERENCE

PEDESTALS: See Standard Details - BD-101-C4
 SPLICES: Regular 36 WF 150, See Standard Details - BD-103-C4
 DRAINS: (14 required) See Standard Details - BD-104-C4 and sheet #9
 DIAPHRAGMS: See Standard Details - BD-104-C4
 EXPANSION DAMS: See Standard Details - BD-105-C4
 Roadway Dams - Type A 2 required
 Curb Dams - Type V skewed 4 required, See sheet #9
 BEAM GRADES - See sheet #8

NOTES

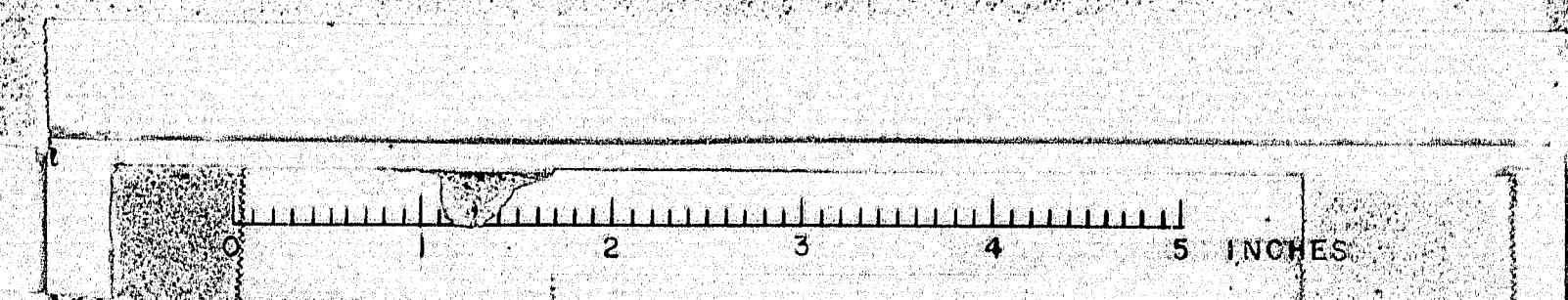
Set all diaphragms plumb
 See sheet #1, General Plan for structural steel classification.

PEDESTALS

ABUTMENTS - EPC-2 - 10 required
 PIERS 1/2 and 4 - EPC-5 - 15 required
 PIER 3 - EPC-3 - 5 required

DESIGN - A.H.R. TRACE & DETAIL - E.M. CHECK - E.P.S.	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ROUTE 157 OVER	
INTERSTATE 95 IN THE TOWN OF	
MEDWAY PENOBSCOT COUNTY	
STRUCTURAL STEEL	
SHEET 7 OF 15 AUGUSTA, MAINE DEC. 1964	

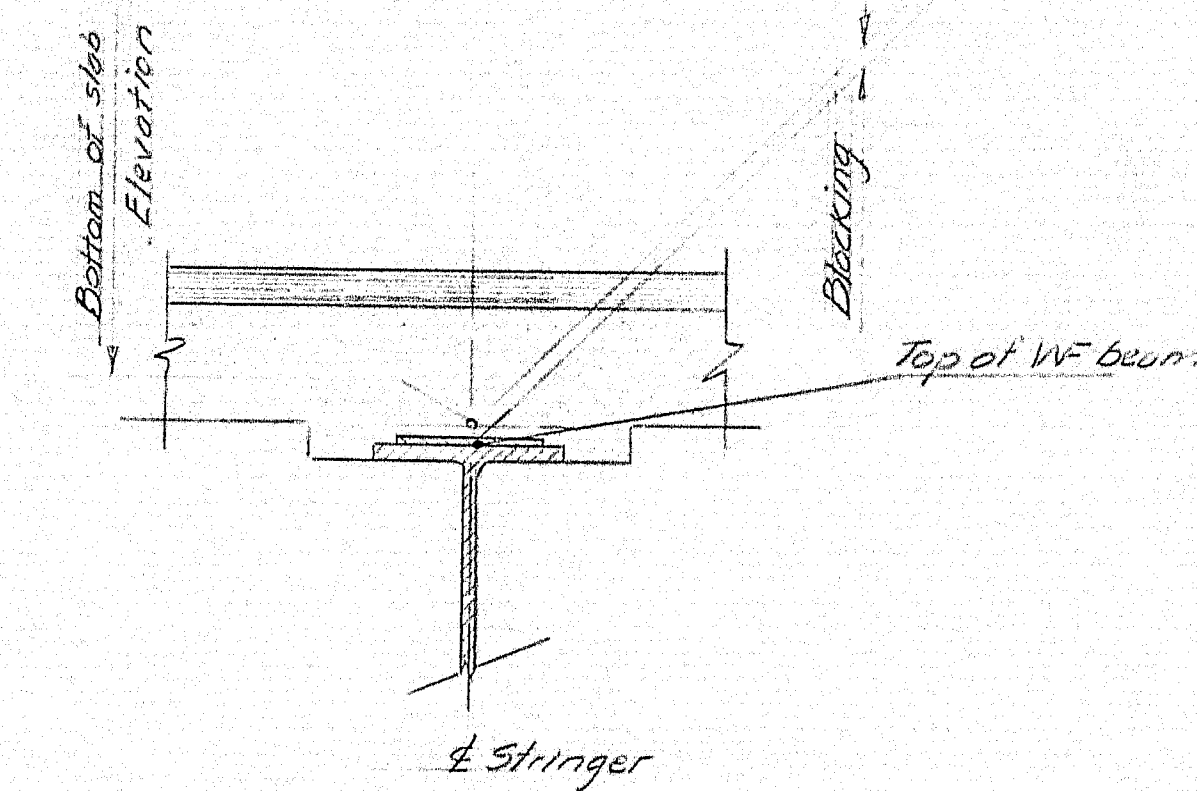
M-2450



BOTTOM OF SLAB ELEVATIONS																																																								
Point	Abut	Span 1										Pier 1	Span 2										Pier 2	Span 3										Pier 3	Span 4										Pier 4	Span 5										Abut.
Line I	325.29	325.24	325.22	325.31	325.12	325.05	324.97	324.89	324.82	324.75	324.67	324.62	324.55	324.46	324.37	324.28	324.19	324.11	324.04	323.96	323.87	323.77	323.66	323.55	323.44	323.35	323.25	323.16	323.06	322.95	322.83	322.70	322.59	322.49	322.40	322.31	322.21	322.10	321.98	321.85	321.71															
Line II	325.43	325.40	325.36	325.31	325.26	325.19	325.11	325.03	324.96	324.89	324.82	324.76	324.68	324.60	324.51	324.41	324.32	324.24	324.17	324.09	324.00	323.90	323.79	323.68	323.57	323.47	323.38	323.28	323.18	323.07	322.95	322.83	322.71	322.61	322.52	322.43	322.33	322.22	322.10	321.97	321.83	321.69														
Line III	325.58	325.54	325.50	325.45	325.39	325.32	325.25	325.17	325.10	325.02	324.96	324.89	324.82	324.76	324.68	324.60	324.51	324.41	324.32	324.24	324.17	324.09	324.00	323.90	323.79	323.68	323.57	323.47	323.38	323.28	323.18	323.07	322.95	322.83	322.71	322.61	322.52	322.43	322.33	322.22	322.10	321.97	321.83	321.69												
Line IV	325.73	325.69	325.65	325.60	325.54	325.47	325.40	325.32	325.25	325.17	325.10	325.02	324.96	324.89	324.82	324.76	324.68	324.60	324.51	324.41	324.32	324.24	324.17	324.09	324.00	323.90	323.79	323.68	323.57	323.47	323.38	323.28	323.18	323.07	322.95	322.83	322.71	322.61	322.52	322.43	322.33	322.22	322.10	321.97	321.83	321.69										
Line V	325.87	325.83	325.79	325.74	325.68	325.61	325.54	325.46	325.39	325.32	325.25	325.17	325.10	325.02	324.96	324.89	324.82	324.76	324.68	324.60	324.51	324.41	324.32	324.24	324.17	324.09	324.00	323.90	323.79	323.68	323.57	323.47	323.38	323.28	323.18	323.07	322.95	322.83	322.71	322.61	322.52	322.43	322.33	322.22	322.10	321.97	321.83	321.69								

	Abut. 1	Pier 1	Pier 2	Pier 3	Pier 4	Abut. 2
Line I	-7.4%	-9.2%	-10.5%	-11.3%	-13.6%	
Line II	-7.4%	-9.3%	-10.6%	-11.8%	-13.7%	
Line III	-7.4%	-9.2%	-10.6%	-11.9%	-13.8%	
Line IV	-7.5%	-9.4%	-10.7%	-12.0%	-13.8%	
Line V	-7.6%	-9.5%	-10.7%	-12.0%	-13.9%	

BEAM GRADES

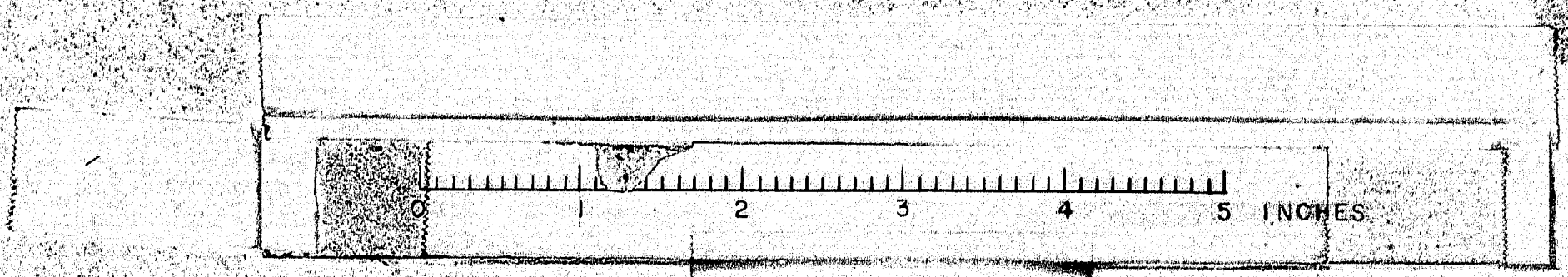


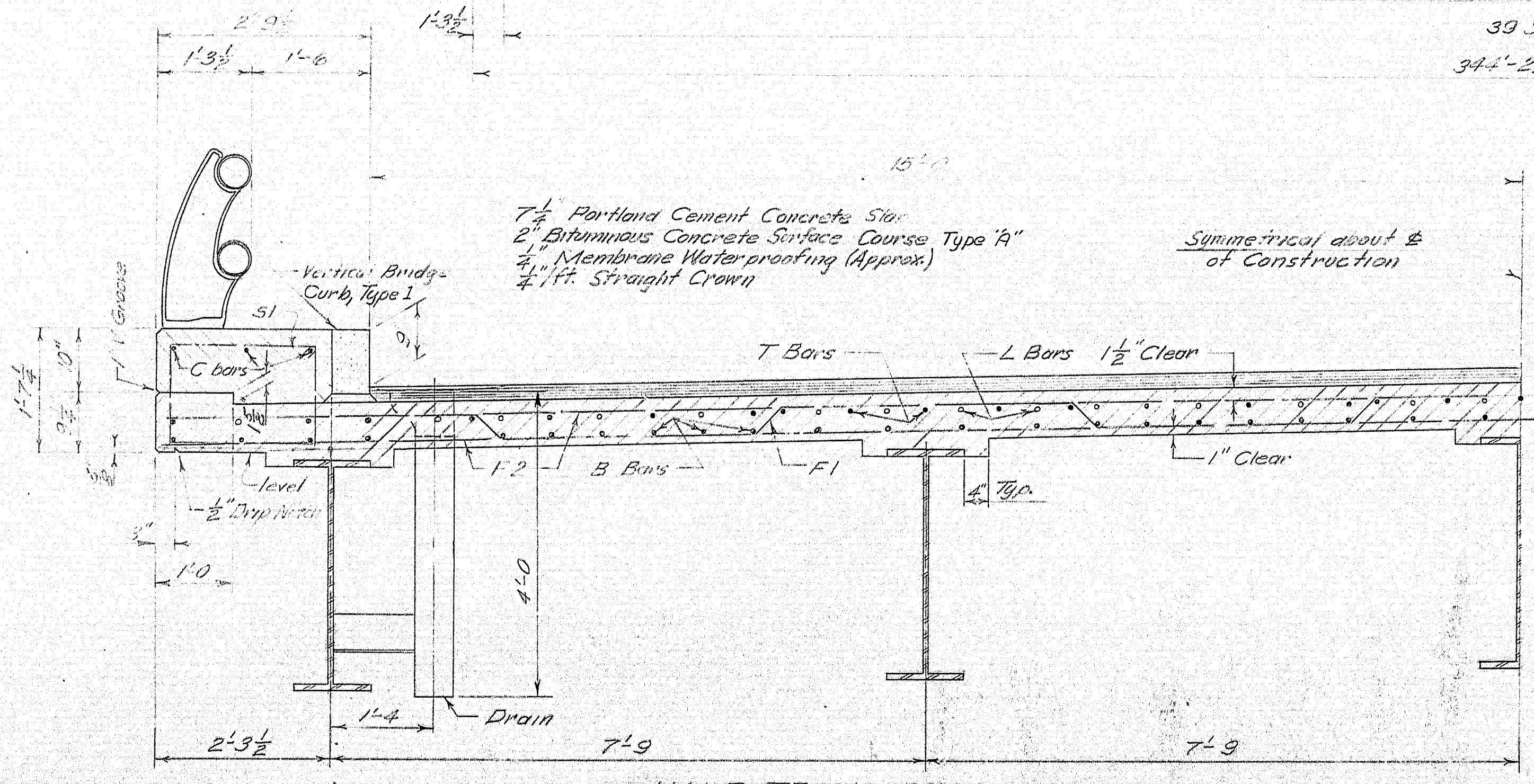
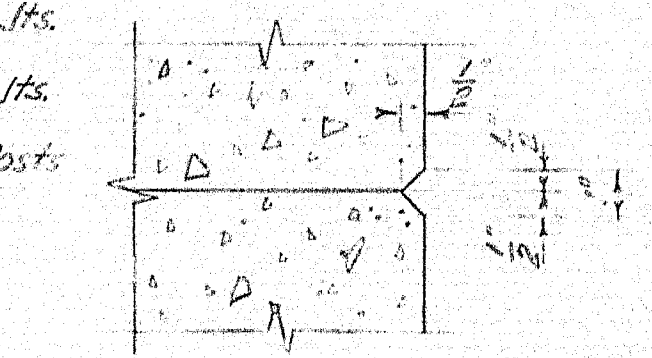
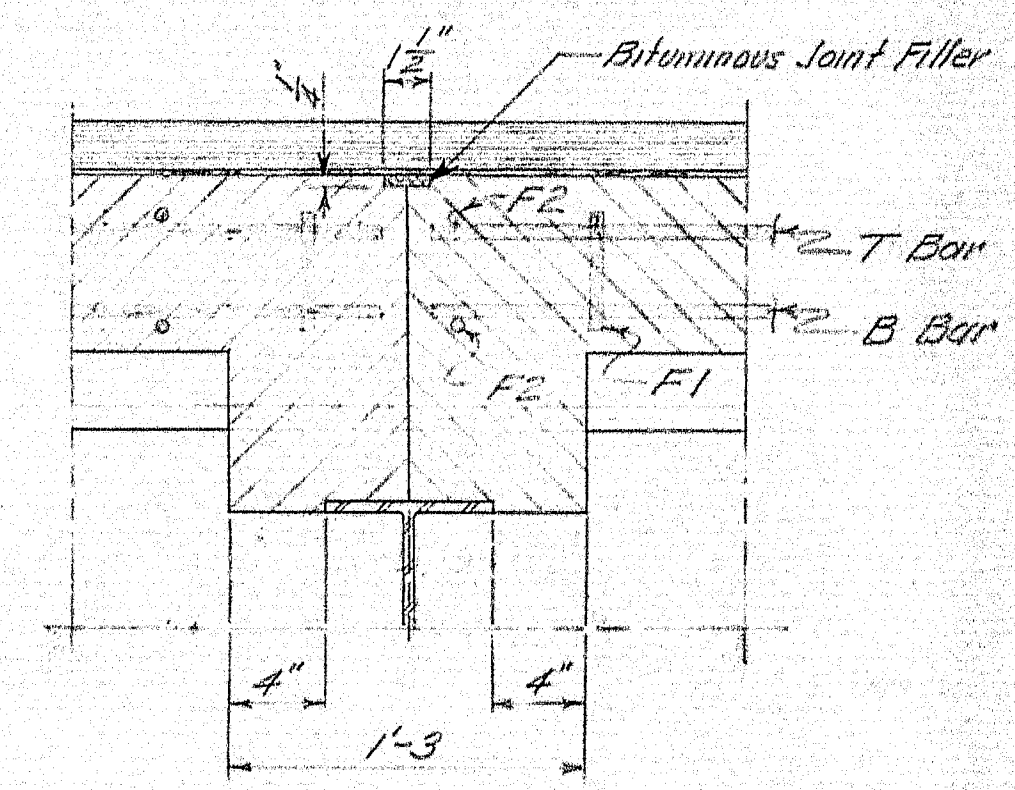
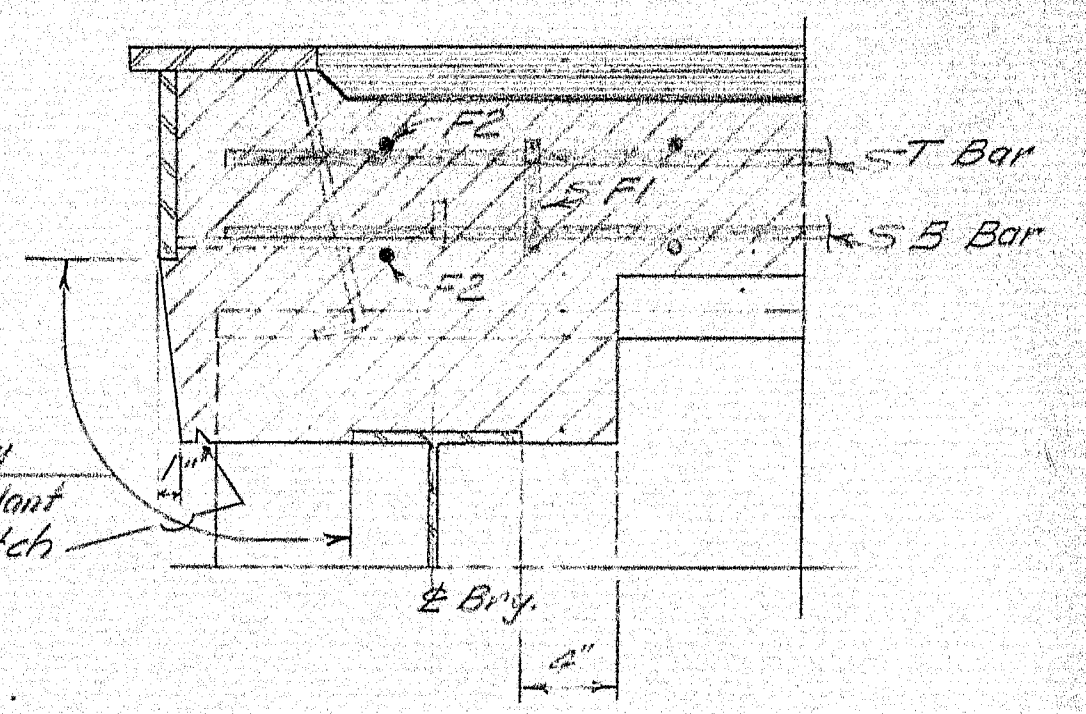
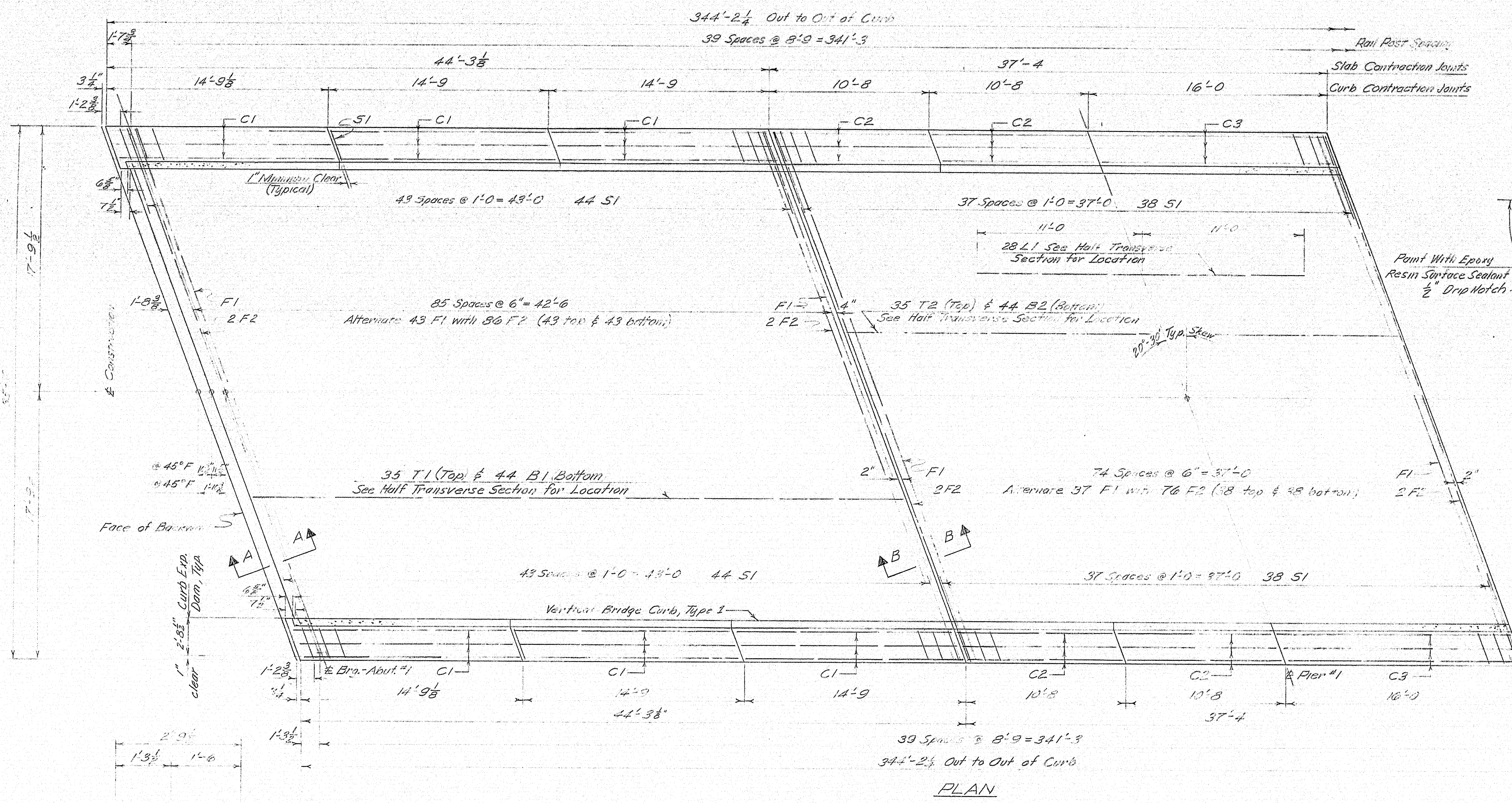
STRINGER SECTION

Note: Blocking is 1/2" at abutment and pier bearings. Do not use for setting forms. To compensate for dead load deflections as well as possible irregularities in beams, set the bottom of slab elevations at the points indicated before any of the form work is started.

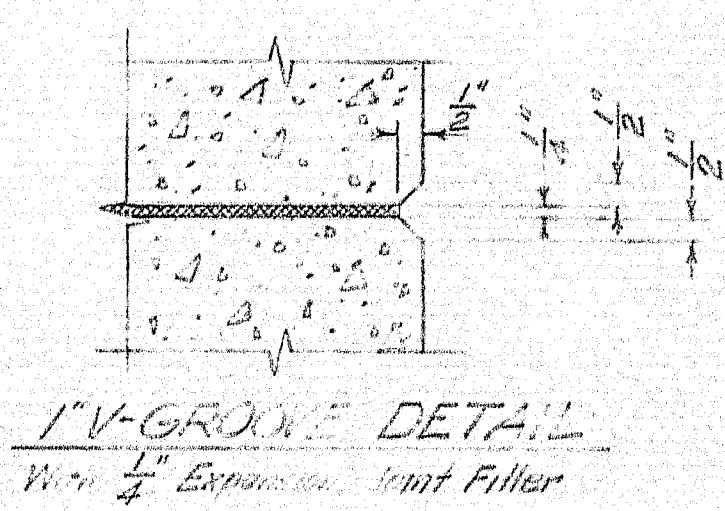
DESIGN - A.H.R. TRACE & DETAIL - E.M. CHECK - E.M.	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ROUTE 157 OVER	
INTERSTATE 95 IN THE TOWN OF	
MEDWAY PENOBSCOT COUNTY	
BEAM GRADES & BLOCKING SHEET 8 OF 15 AUGUSTA, MAINE DEC. 1964	

14-2451





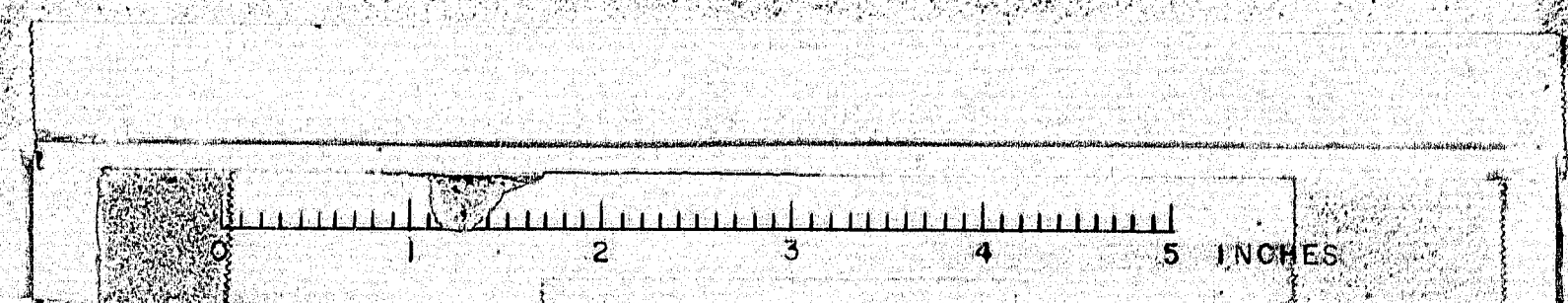
- GENERAL NOTES**
1. Chamfer all exposed edges of concrete 1/2".
 2. See Location Plan Sheet 12 for slab placement sequence.
 3. At curb contraction joints over piers provide 1/2" preformed expansion joint filler to separate curb sections (cover granite and concrete). At all other curb contraction joints break band between the concrete surfaces by a coating of suitable grade asphalt paint.
 4. Form a 1" V-Groove on outside face of curb and slab at each curb contraction joint.
 5. Provide a 1" plastic tube drain extending through slab to 2" below bottom of slab at low points. See sheet 13 for location. Do not cover top with membrane waterproofing. Payment to be incidental to Item 701-40.
 6. Drain details are shown on Standard Details, sheet BD 104-64. See sheet 12 and Half Transverse Section for Locations. 14 Reg'd
 7. Rail details are shown on Standard Details, sheets BD 107-64 and BD 108-64, and sheet 11.



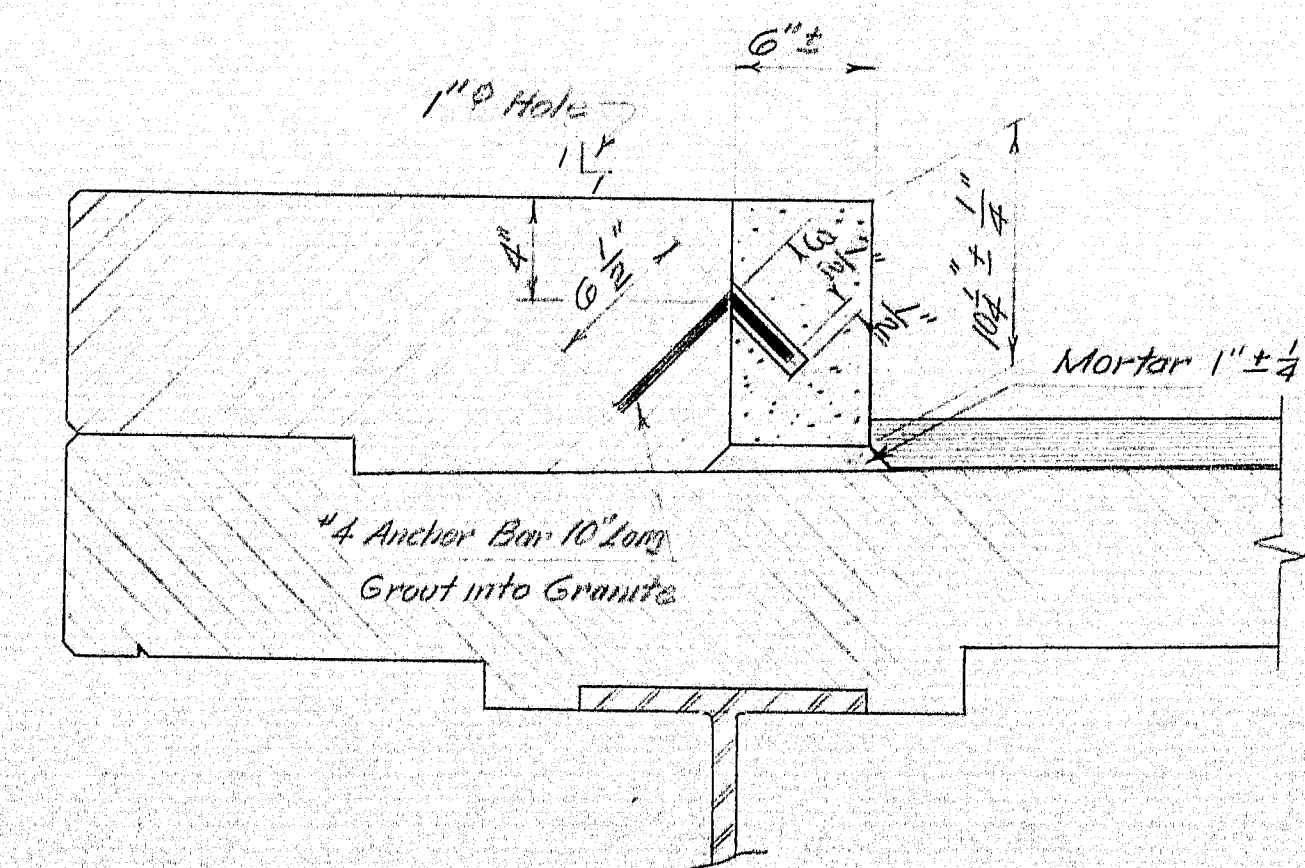
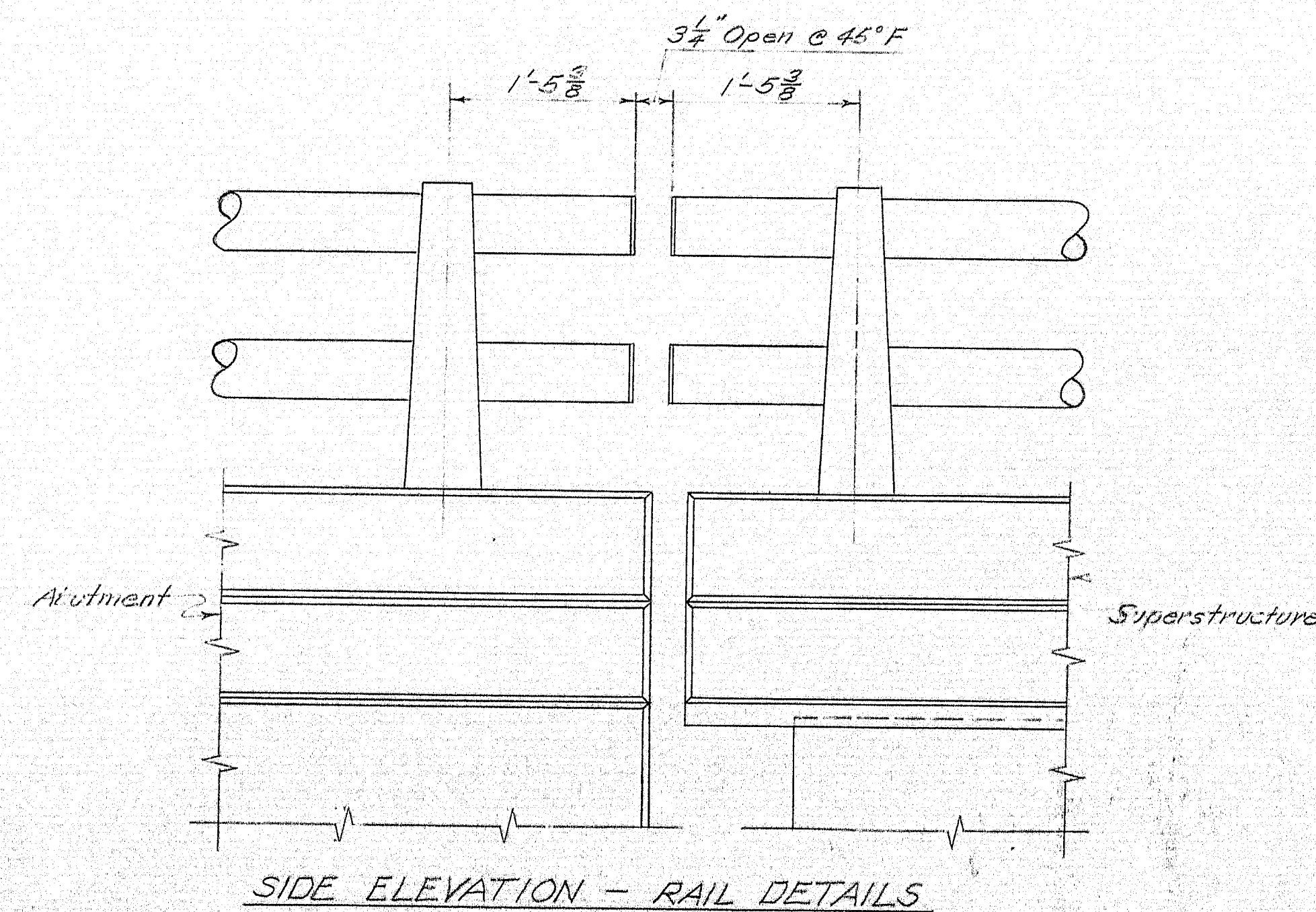
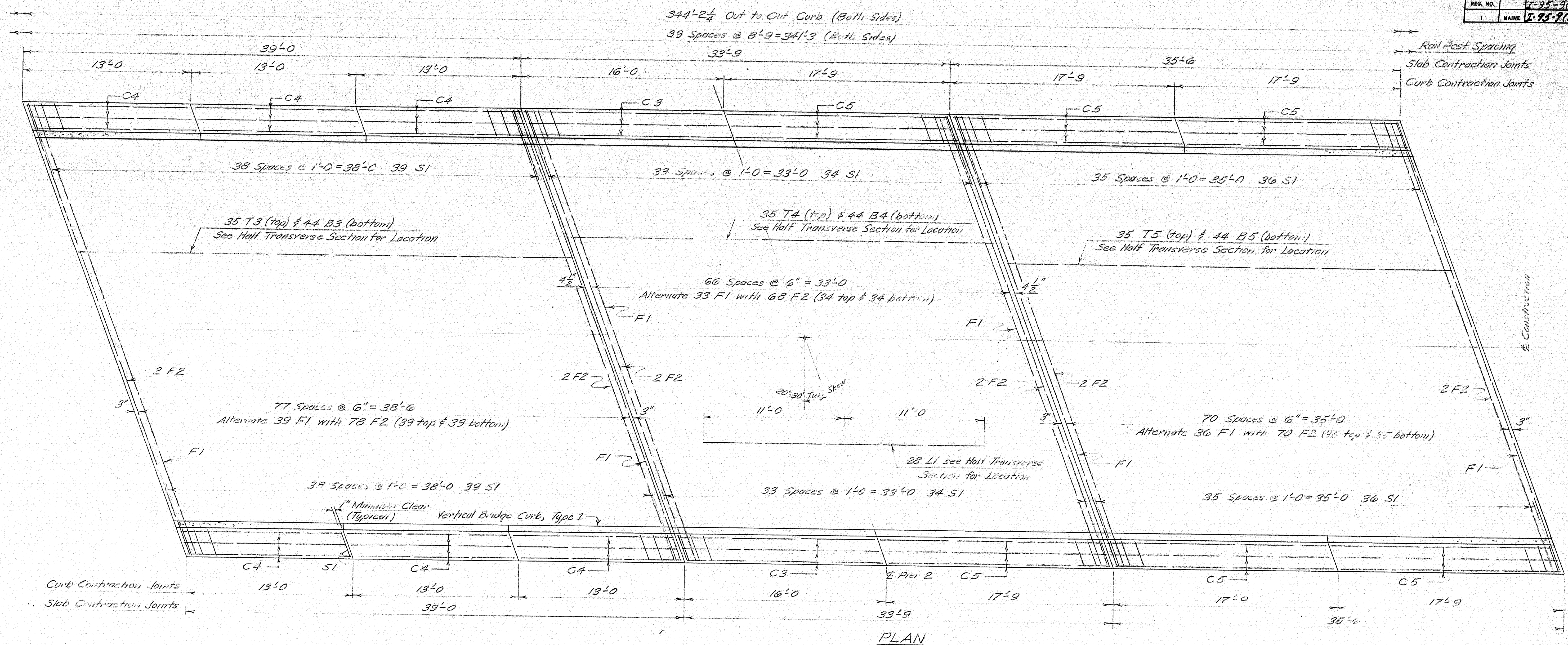
DESIGN - A.H.R.	BRIDGE NO.
TRACE & DETAIL - J.C.	SURVEY -
CHECK -	PLAT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ROUTE 157
OVER
INTERSTATE 95
IN THE TOWN OF
MEDWAY
PENOBSCOT COUNTY
SUPERSTRUCTURE - I
SHEET 9 OF 15 AUGUSTA, MAINE DEC. 1964

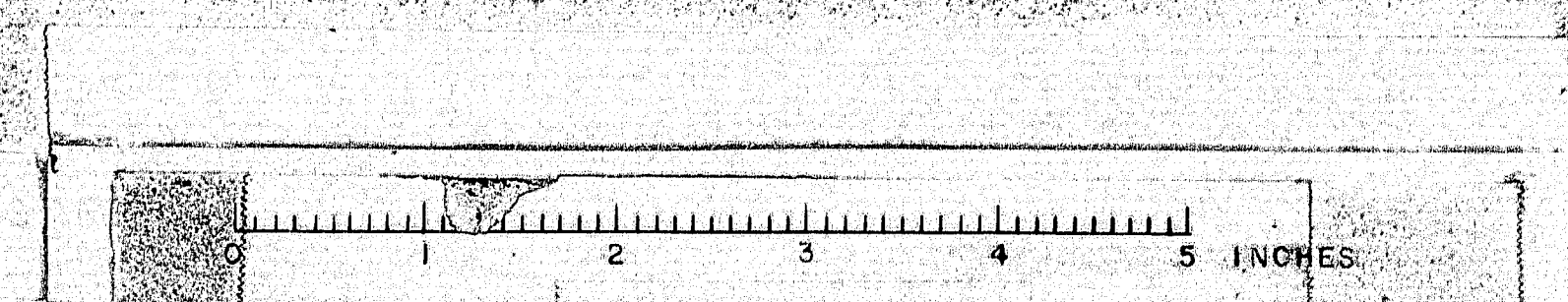


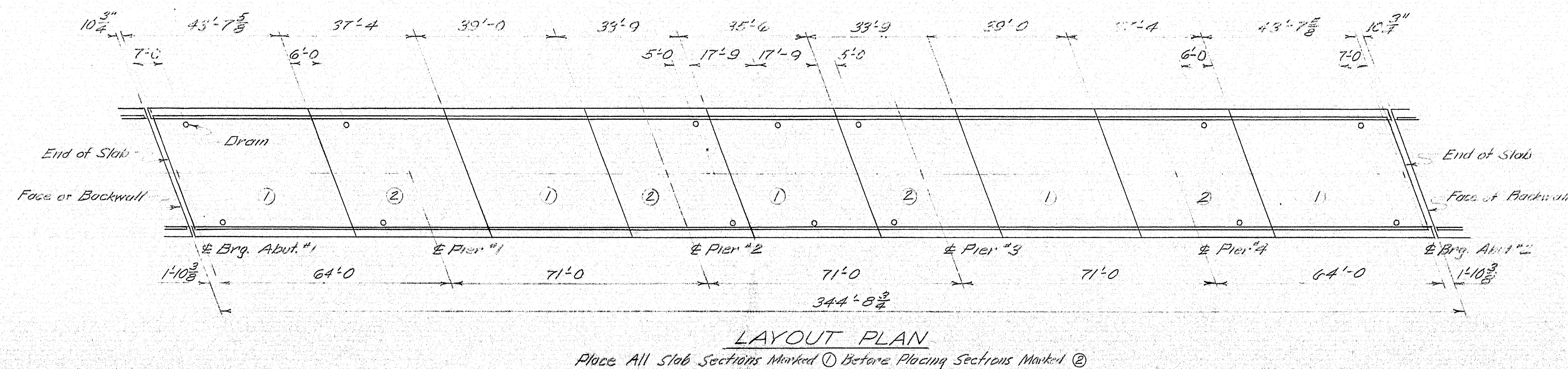
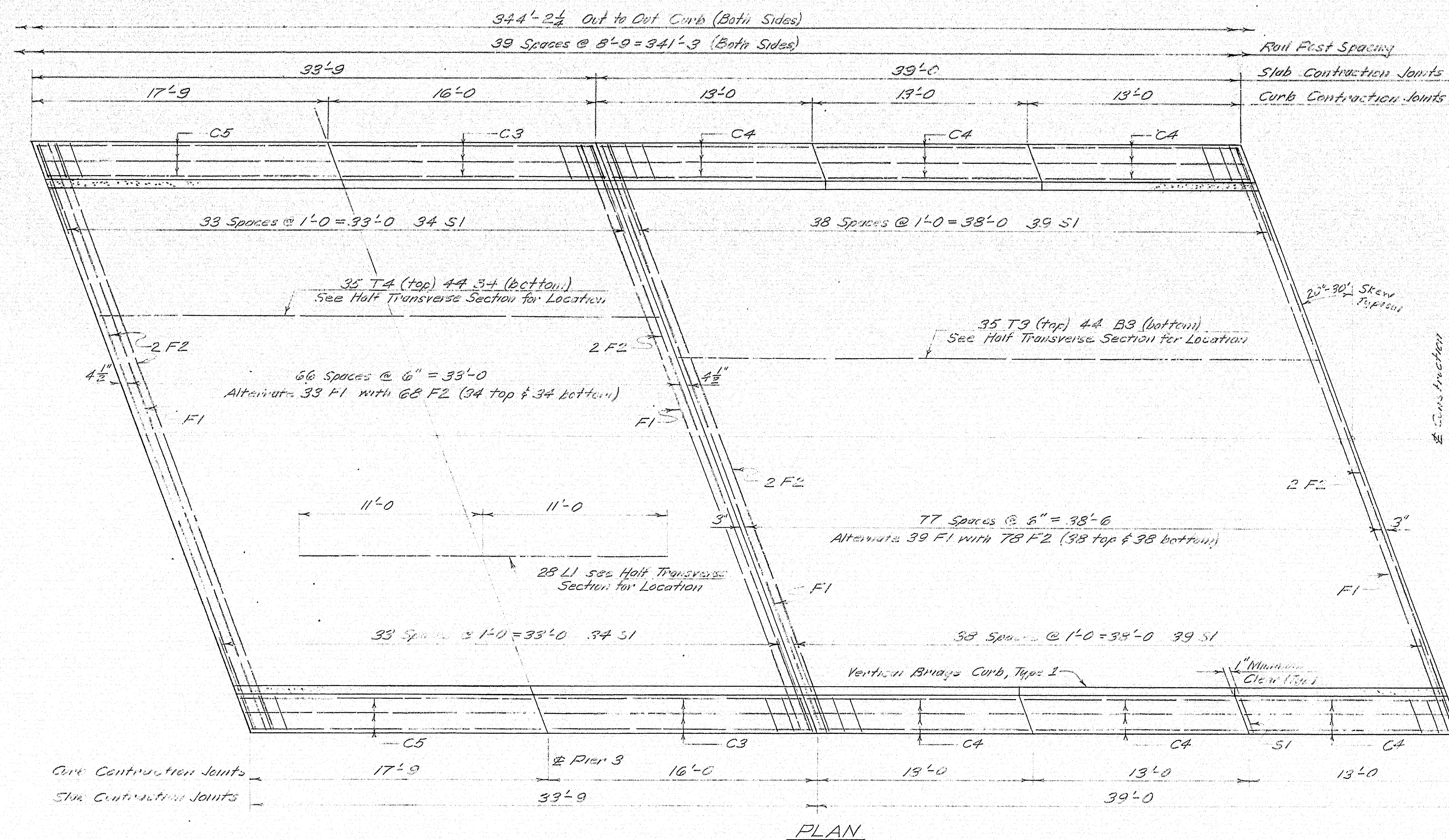
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	2-95-9(30)	22	830



DESIGN - A. H. R. TRACE & DETAIL - J. C. CHECK - E. H. S.	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ROUTE 157 OVER	
INTERSTATE 95 IN THE TOWN OF	
MEDWAY PENOBSCOT COUNTY	
SUPERSTRUCTURE - 2	
SHEET 10 OF 15 AUGUSTA, MAINE DEC. 1964	

M-2453



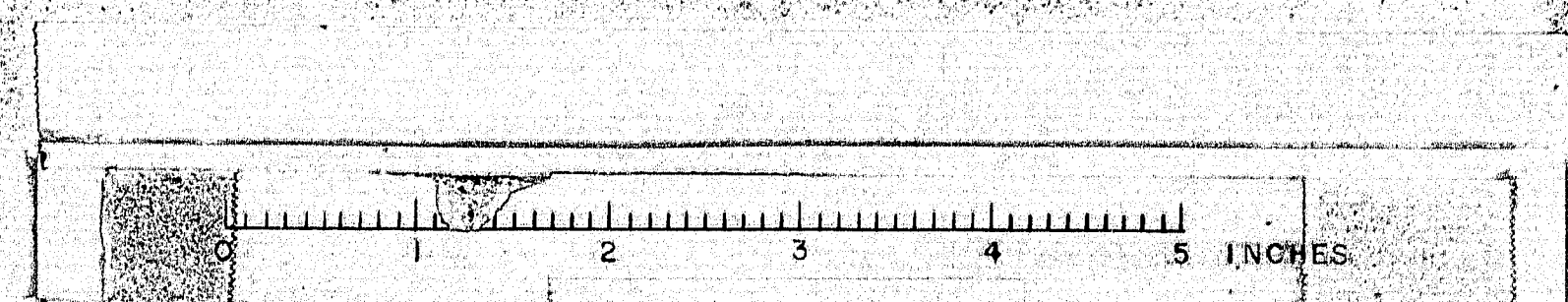


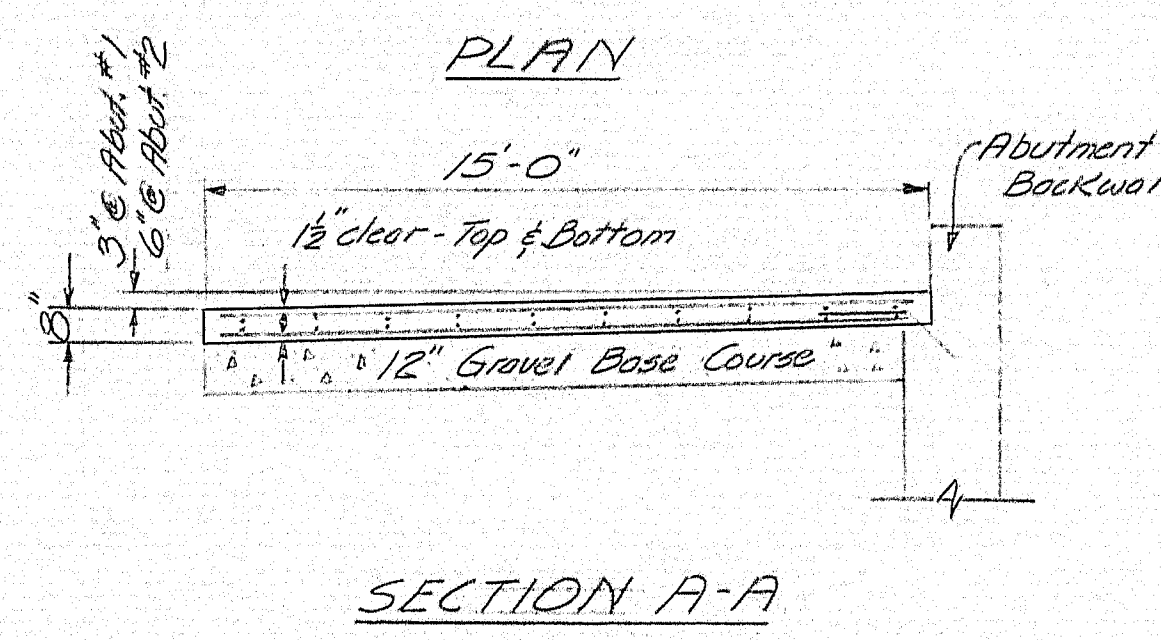
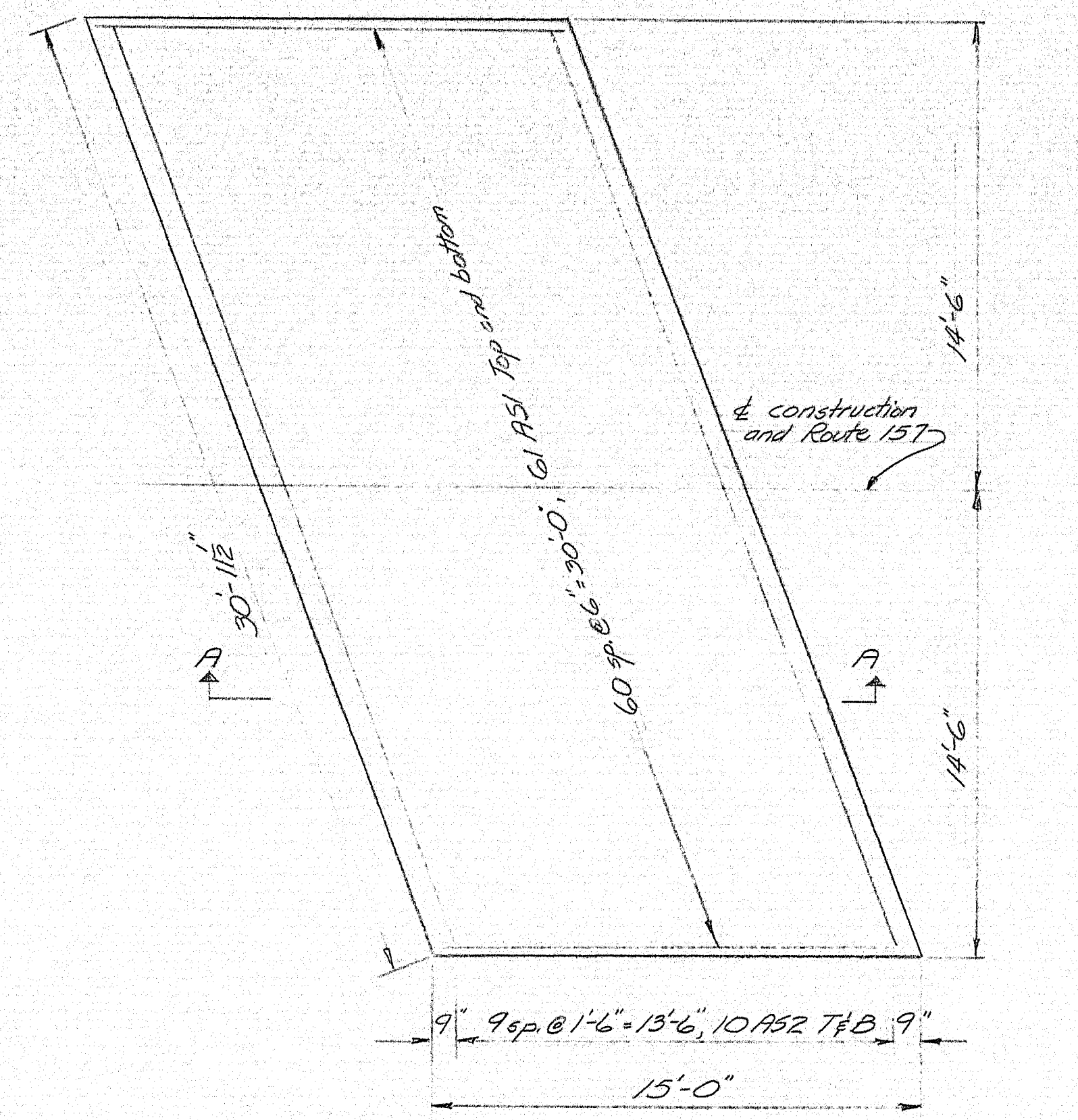
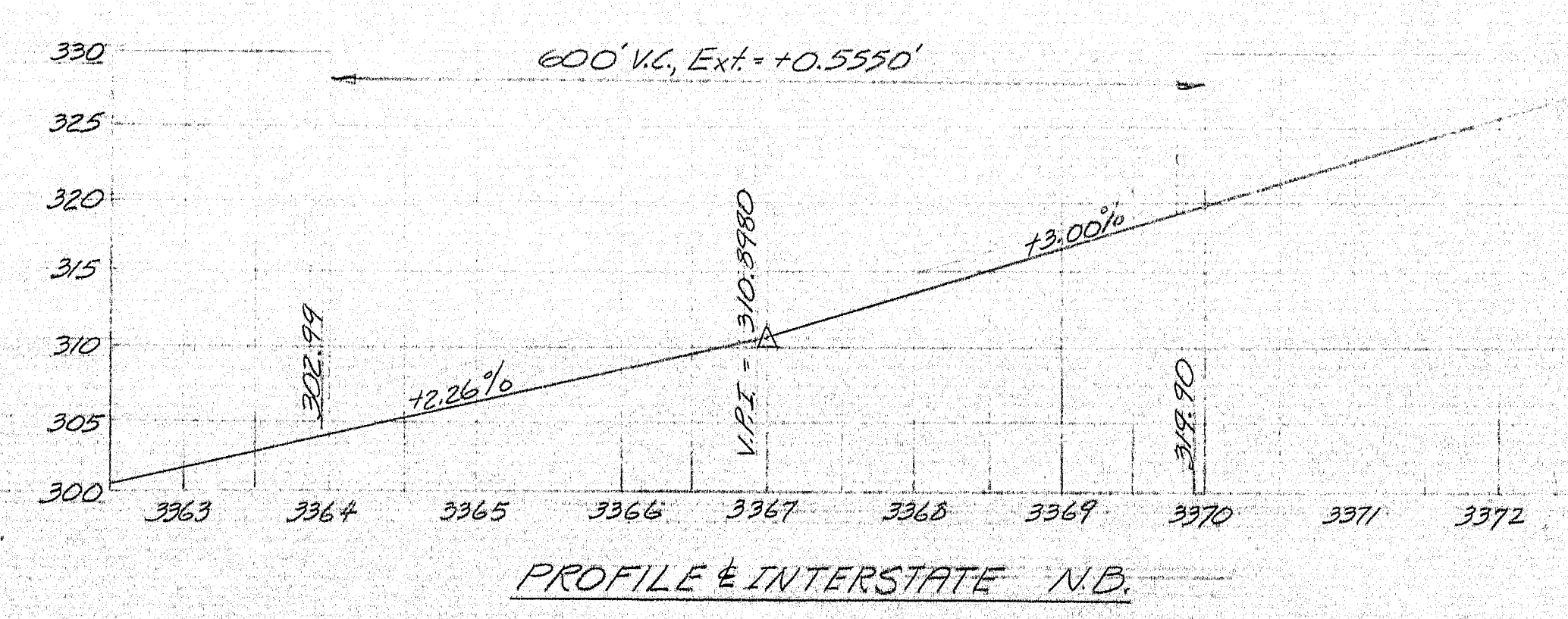
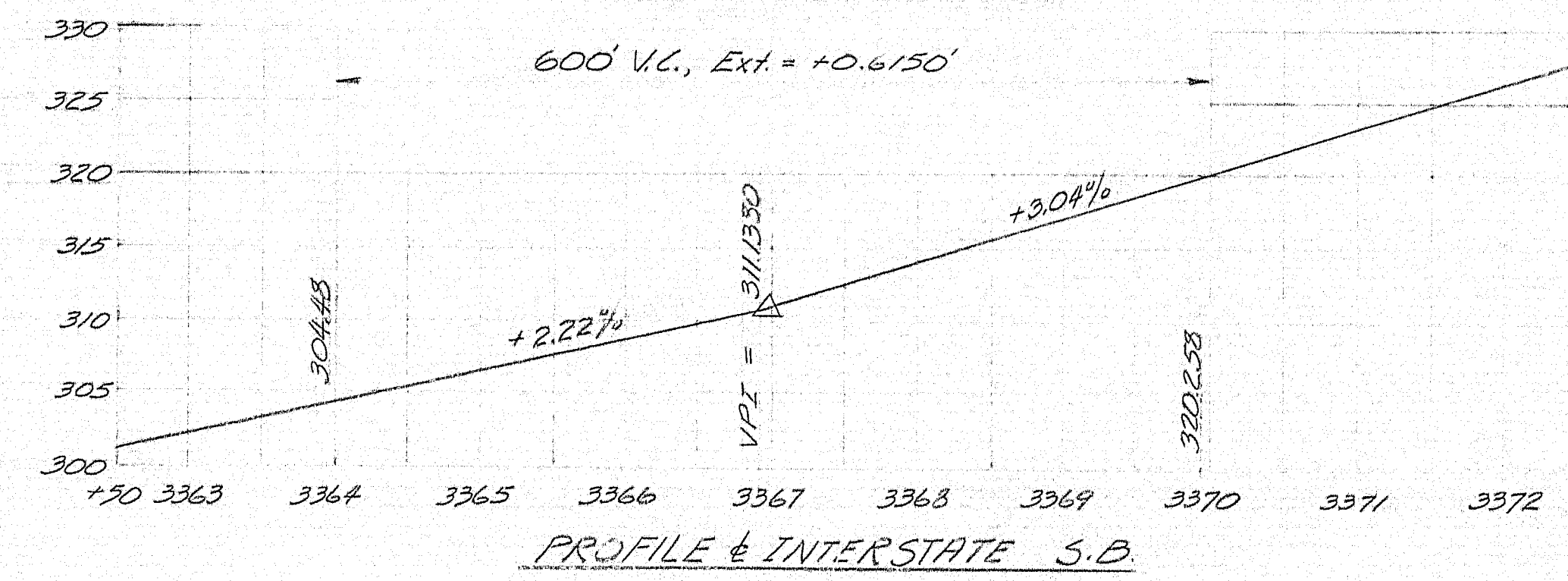
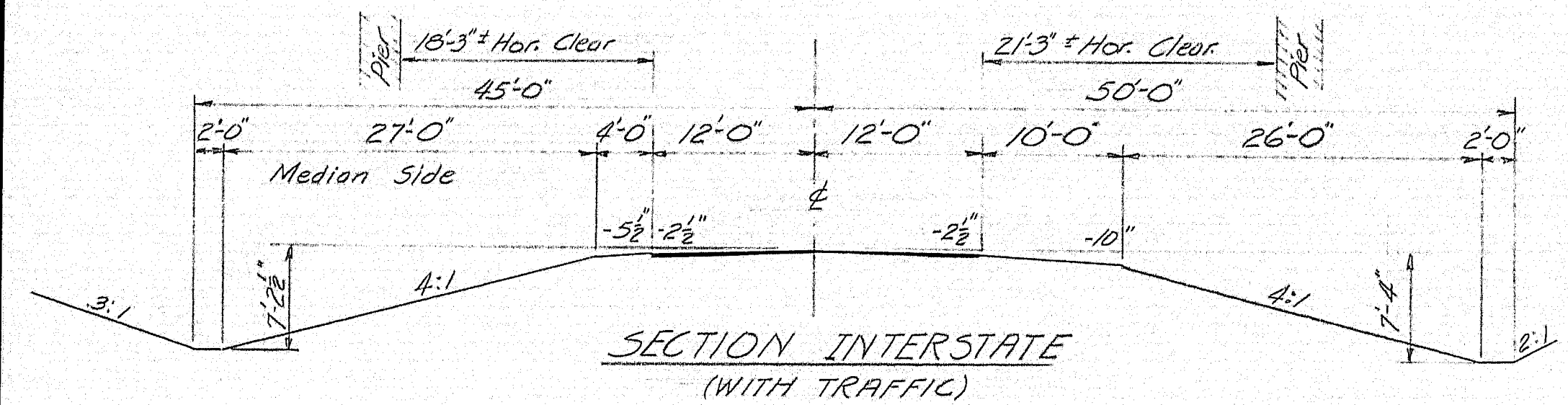
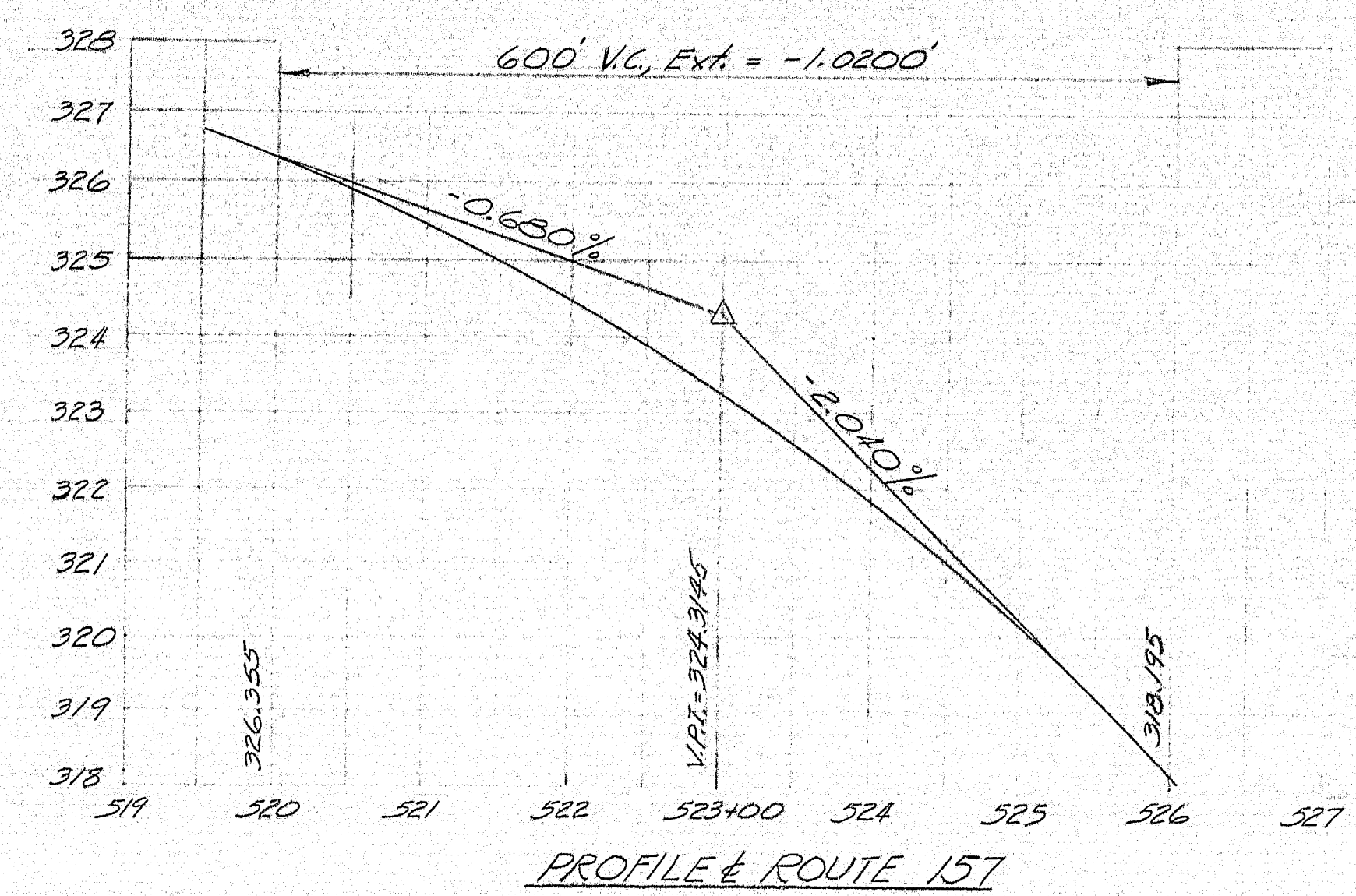
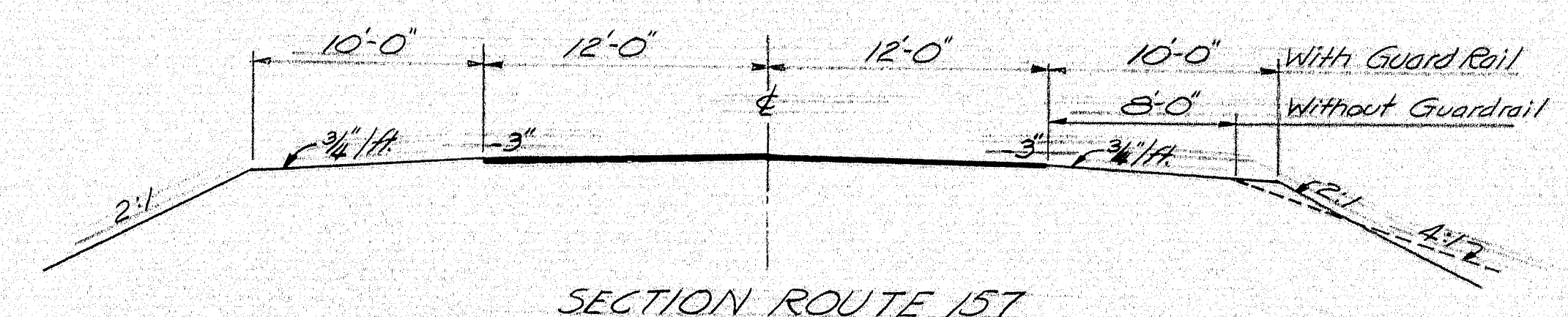
DESIGN - A.H.R.
TRACE & DETAIL - J.C.
CHECK - E.H.S.

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
ROUTE 157
OVER
INTERSTATE 95
IN THE TOWN OF
MEDWAY
PENOBSCOT COUNTY
SUPERSTRUCTURE - 3
SHEET 11 OF 15 AUGUSTA, MAINE DEC. 1964

M-2454





Approach Slab Notes
Abutment #1 shown, Rotate 180° for Abutment #2

APPROACH SLAB

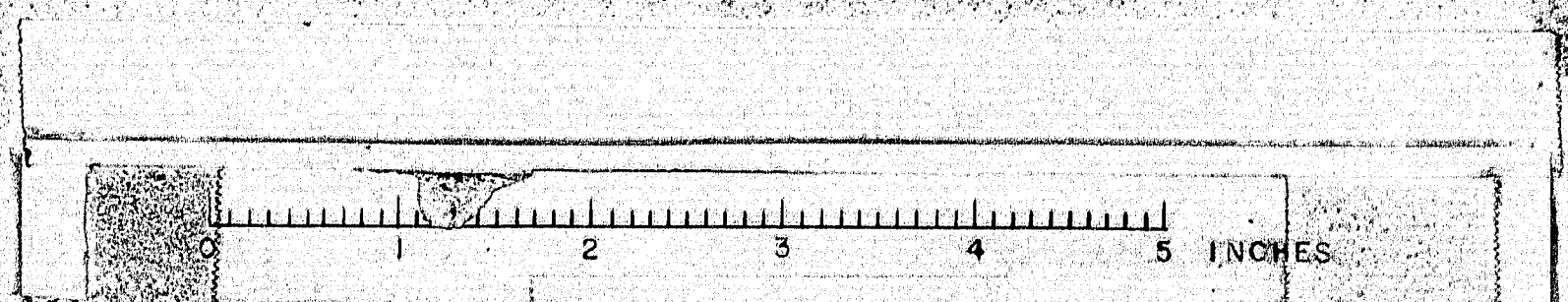
ESTIMATE OF QUANTITIES FOR ROUTE 157 OVER I-95

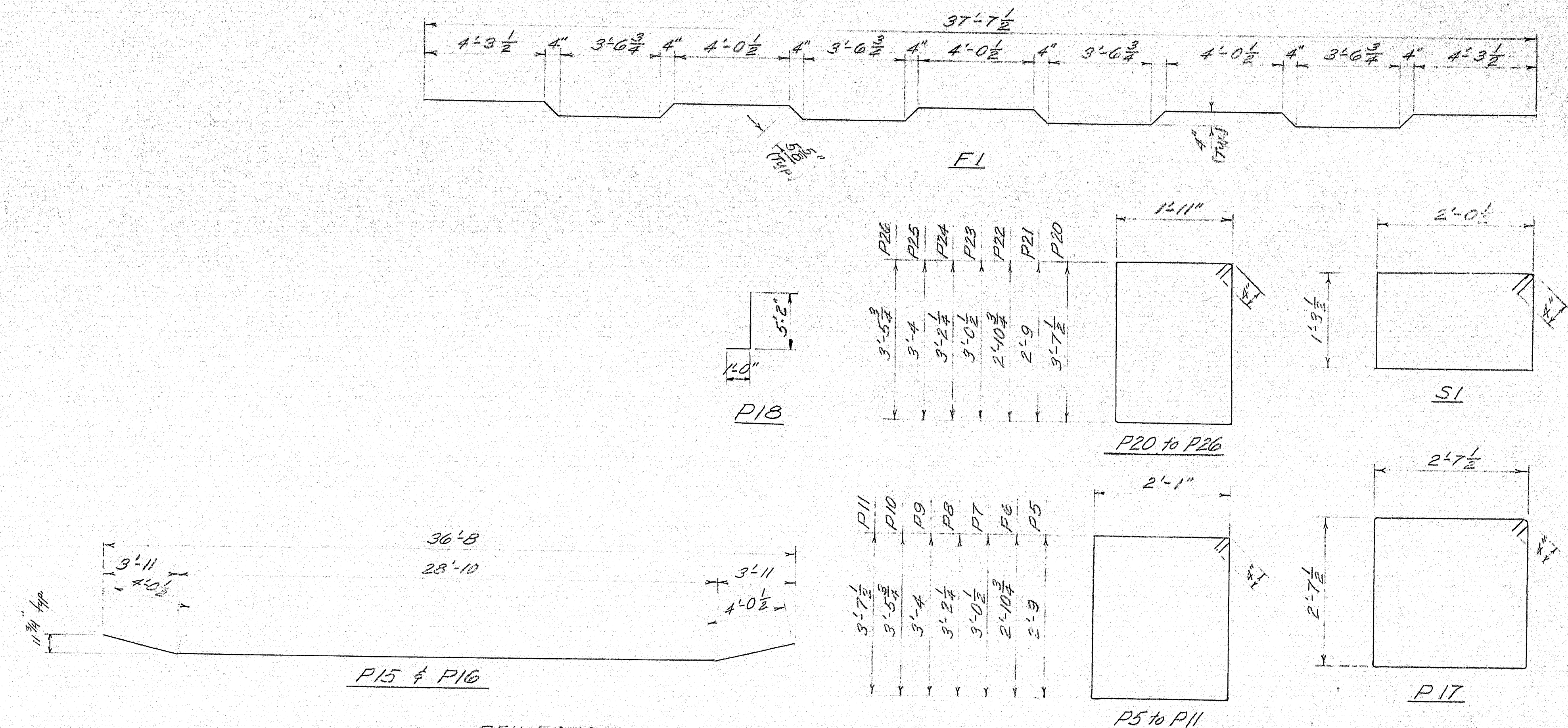
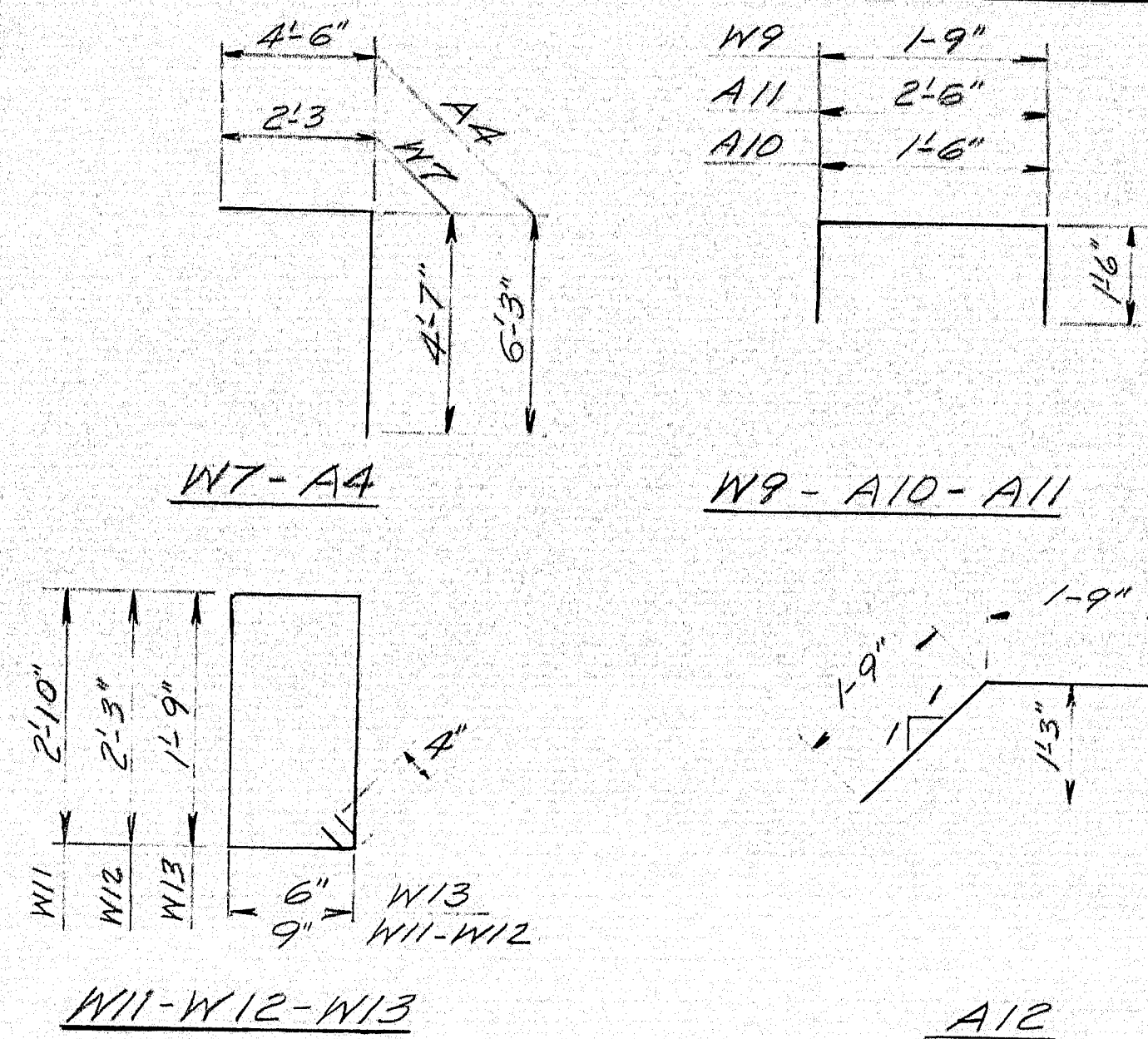
DESCRIPTION	UNIT	QUANTITY
203-9 EARTH EXCAVATION	C.Y.	430
204-14 STRUCTURAL EARTH EXCAVATION, PIERS	C.Y.	470
205-12 GRAVEL BORROW, IN PLACE MEASURE	C.Y.	2500
404-28 BITUMINOUS CONCRETE SURFACE COURSE TYPE "A"	TON	126
701-33 PORTLAND CEMENT CONCRETE, ABUTMENTS AND RETAINING WALLS	C.Y.	250
701-35 PORTLAND CEMENT CONCRETE, PIERS	C.Y.	251
701-40 PORTLAND CEMENT CONCRETE, RDWY & SIDEWALK SLABS ON STL. BRG.	C.Y.	352
701-50 PORTLAND CEMENT CONCRETE, APPROACH SLABS	C.Y.	22
701-55 CURING BOX FOR CONCRETE CYLINDERS	EACH	1
702-103.1 STRUCTURAL STEEL, FABRICATED AND DELIVERED (R.H. 1-7)	L.S.	LUMP SUM
702-104.1 STRUCTURAL STEEL, ERECTION (R.H. 1-7)	L.S.	LUMP SUM
702-105.1 STRUCTURAL STEEL, FIELD PAINTING (R.H. 1-7)	L.S.	LUMP SUM
705-13 REINFORCING STEEL, DELIVERED	LB.	125,800
705-14 REINFORCING STEEL, PLACING	LB.	125,800
805-8 BRIDGE RAIL	LF.	718
807-9 MEMBRANE WATERPROOFING	S.Y.	1143
807-11 EPOXY RESIN SURFACE SEALANT	S.Y.	125
808-6 SLOPE PAVING	S.Y.	495
901-24 VERTICAL BRIDGE CURB TYPE 1	L.F.	717
901-25 VERTICAL BRIDGE, CIRCULAR, TYPE 1	L.F.	21
939-9.1 FIELD OFFICE TYPE "C" (R.H. 1-7)	L.S.	LUMP SUM

ESTIMATED WEIGHT OF STRUCTURAL STEEL INCLUDING DRAINS = 322,800 Lbs.

DESIGN - A.H.R. TRACE & DETAIL - E.M. CHECK - B.A.S. (Civil Engr.)	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ROUTE 157 OVER INTERSTATE 95 IN THE TOWN OF MEDWAY	
PENOBSCOT COUNTY	
APPROACH SLABS, TYPICAL SECTIONS AND GRADES, BRIDGE QUANTITIES	
SHEET 13 OF 15 AUGUSTA, MAINE DEC. 1964	

11-2456





REINFORCING STEEL SCHEDULE

Detail - G.M.C. APPROACH SLAB					Detail - S.W.C. ABUTMENTS					Detail - J.C. PIERS					Detail - U.C. SUPERSTRUCTURE				
Mark	Size	No.	Length	Location	Mark	Size	No.	Length	Location	Mark	Size	No.	Length	Location	Mark	Size	No.	Length	Location
A51	#6	244	14'-6"	Slabs	A4	#5	48	10'-9"	Bent Bars	P5	#4	12	10'-4"	Bent Bars	F2	#5	686	37'-8"	Slab (main steel)
A52	#4	40	30'-6"	"	A10	#5	20	4'-6"	Breast Wall	P6	#4	12	10'-7"	Caps, Piers 1, 2 & 4	T1	#4	70	43'-3"	Slab (distribution steel)
					A11	#5	20	5'-6"	Bridge Seat	P7	#4	12	10'-11"	" " 1, 2 & 4	T2	#4	70	37'-0"	Slab
					A12	#6	42	3'-6"	"	P8	#4	12	11'-2"	" " 1, 2 & 4	T3	#4	70	38'-8"	Slab
					W7	#5	36	6'-10"	Approach Slab Seat	P9	#4	12	11'-6"	" " 1, 2 & 4	T4	#4	70	35'-5"	Slab
					W9	#5	36	4'-9"	Wing - Wall	P10	#4	12	11'-9"	" " 1, 2 & 4	T5	#4	35	35'-0"	Slab
					W11	#5	8	7'-10"	Wing - Curb	P11	#4	102	12'-1"	" " 1, 2 & 4	B1	#5	88	4'-3"	Slab
					W12	#5	4	6'-8"	Comp. End Post	P15	#10	15	36'-11"	" " 1, 2 & 4	B2	#5	88	57'-0"	Slab
					W13	#5	4	5'-2"	" " "	P16	#9	6	36'-11"	" " Pier 3	B3	#5	88	38'-8"	Slab
										P17	#4	85	11'-2"	Columns (all)	B4	#5	88	33'-5"	Slab
					A1	#6	14	38'-6"	Straight Bars	P20	#4	34	11'-9"	Cap, Pier 3	B5	#5	44	35'-2"	Slab
					A2	#6	78	6'-9"	Abut. Footing	P21	#4	4	10'-0"	" " "	C1	#5	36	14'-5"	Curbs
					A3	#5	92	3'-0"	"	P22	#4	4	10'-3"	" " "	C2	#5	24	10'-4"	Curbs
					A5	#5	44	10'-3"	Footings	P23	#4	4	10'-7"	" " "	C3	#5	24	15'-8"	Curbs
					A6	#5	24	20'-0"	Breast Walls	P24	#4	4	11'-10"	" " "	C4	#5	36	12'-5"	Curbs
					A7	#5	44	3'-6"	"	P25	#4	4	11'-2"	" " "	C5	#5	24	17'-5"	Curbs
					A8	#5	88	4'-0"	Backwall	P26	#4	4	11'-5"	" " "	L1	#5	112	22'-0"	Slab, over Piers
					A9	#5	28	20'-6"	"	P18	#8	192	6'-2"	Footings Dowels					
					A13	#5	28	18'-6"	Backwall	*P1	#8	45	24'-1"	Columns, Pier 1	F1	#6	340	38'-9"	Slab (main steel)
					W1	#6	16	7'-6"	Wing - Footing	*P2	#8	45	24'-5"	" " 2	S1	#5	692	7'-4"	Curb (stirrups)
					W2	#6	16	3'-3"	"	*P3	#8	45	25'-0"	" " 3					
					W3	#5	28	15'-6"	" - Walls	*P4	#8	45	23'-9"	" " 4					
					W4	#5	76	8'-3"	"	*P12	#9	15	36'-8"	Caps, Piers 1, 2 & 4					
					W5	#5	10	11'-6"	So. Wing, Abut. #1 - No. Wing, Abut. #2	*P13	#10	12	36'-8"	Caps, (all)					
					W6	#5	36	4'-8"	Wing - Walls	*P14	#6	16	36'-8"	"					
					W8	#5	10	13'-6"	No. Wing, Abut. #1 - So. Wing, Abut. #2	*P19	#7	192	7'-6"	Caps - Bottom Mat					
					W10	#5	8	3'-9"	Curbs	*P27	#5	192	7'-6"	" - Top Mat					
					W14	#5	8	1'-8"	Concrete End Post										
					W15	#5	8	3'-2"	"										
					W16	#5	16	4'-8"	"										
					W17	#6	18	14'-6"	So. Wing, Abut. #1 - No. Wing, Abut. #2										
					W18	#6	18	16'-3"	No. Wing, Abut. #1 - So. Wing, Abut. #2										
					W19	#5	16	17'-10"	Wing - Curbs										

* Straight Bars

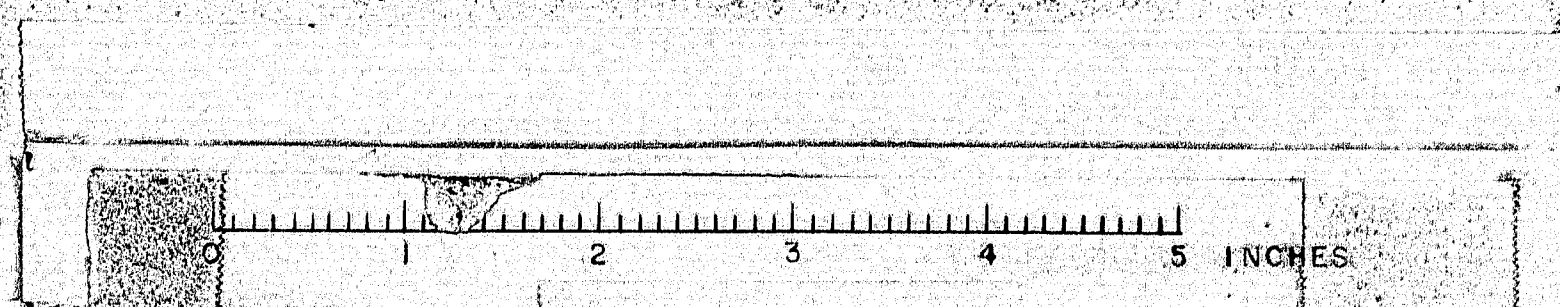
Note:
 Dimensions are to center lines of bars.
 All steel to be Intermediate Grade.

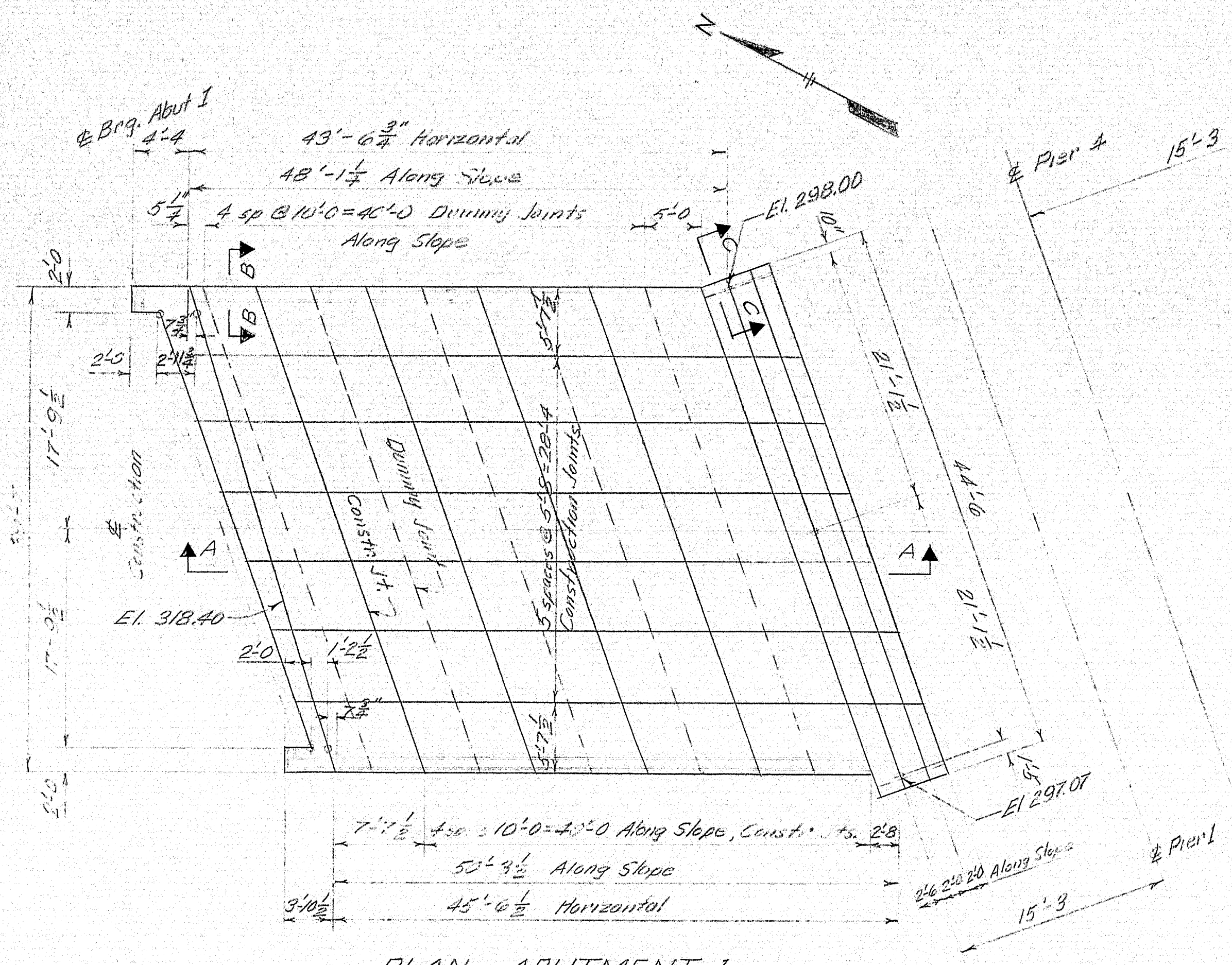
DESIGN - A.H.R.
 TRACE & DETAIL - AS NOTED
 CHECK - R.A.S.

BRIDGE NO.
 SURVEY
 PLOT

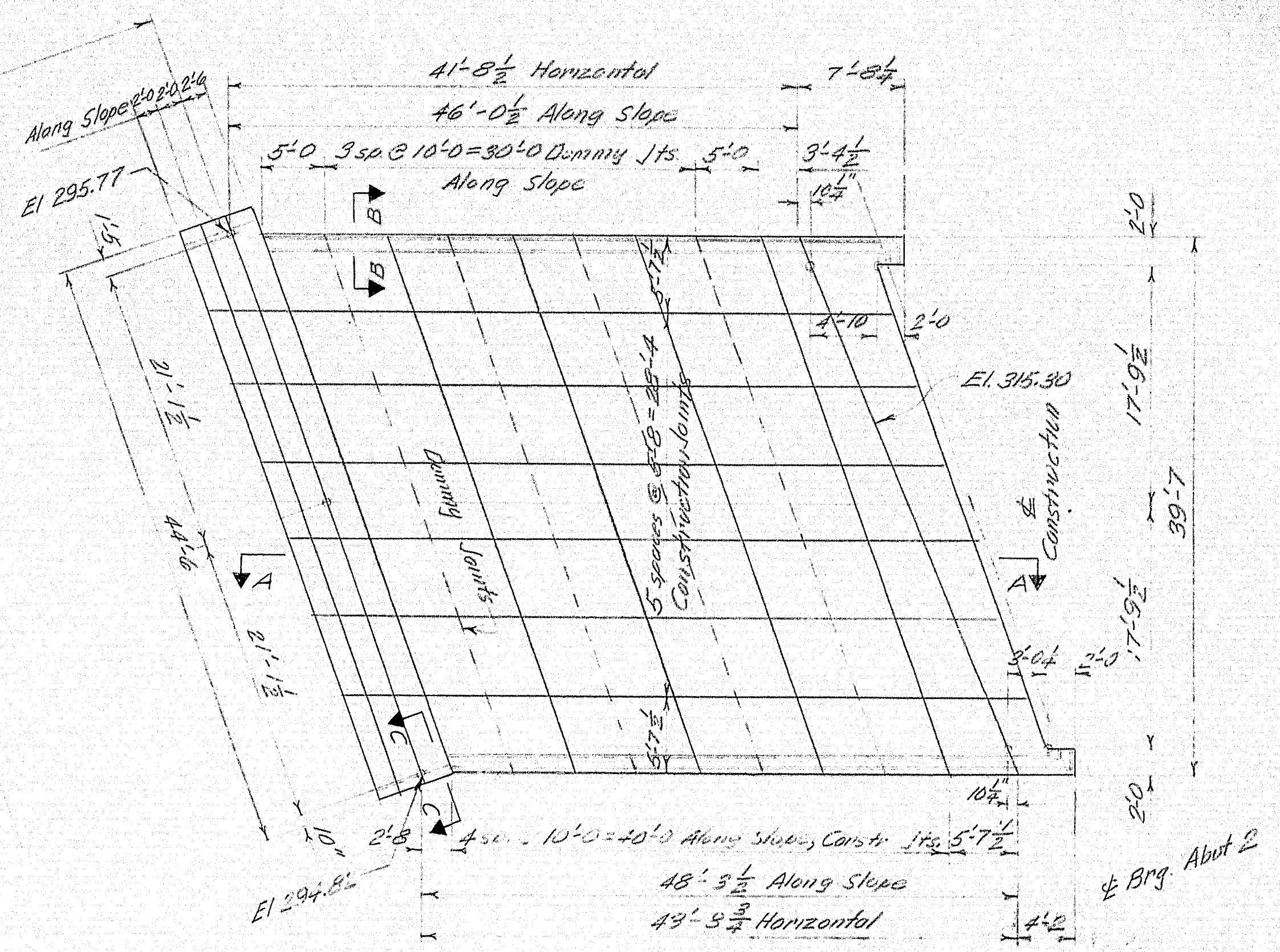
STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
ROUTE 157
 OVER
INTERSTATE 95
 IN THE TOWN OF
MEDWAY
PENOBSCOT COUNTY
 REINFORCING STEEL SCHEDULE
 SHEET 14 OF 15 AUGUSTA, MAINE DEC. 1964

M-2488

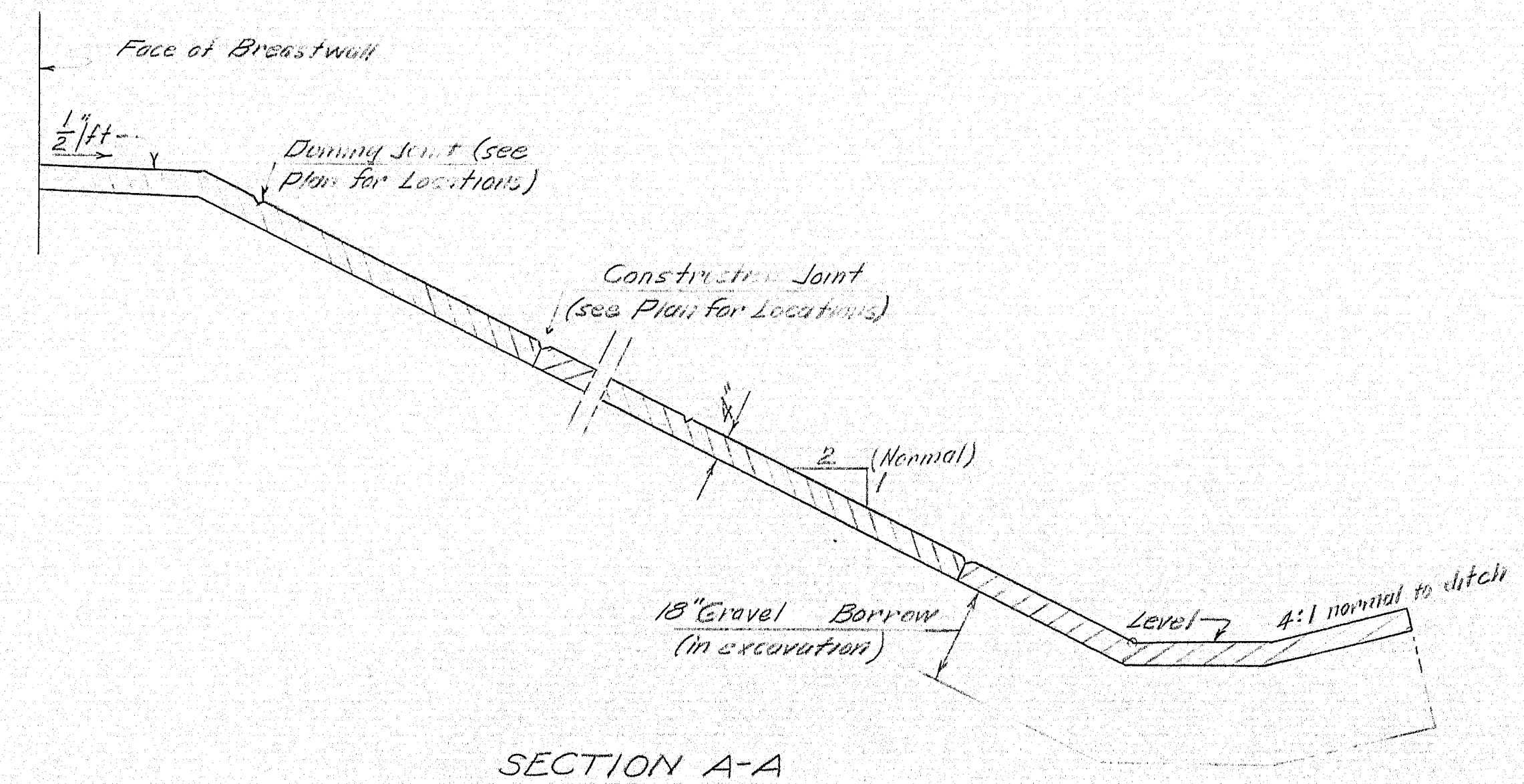




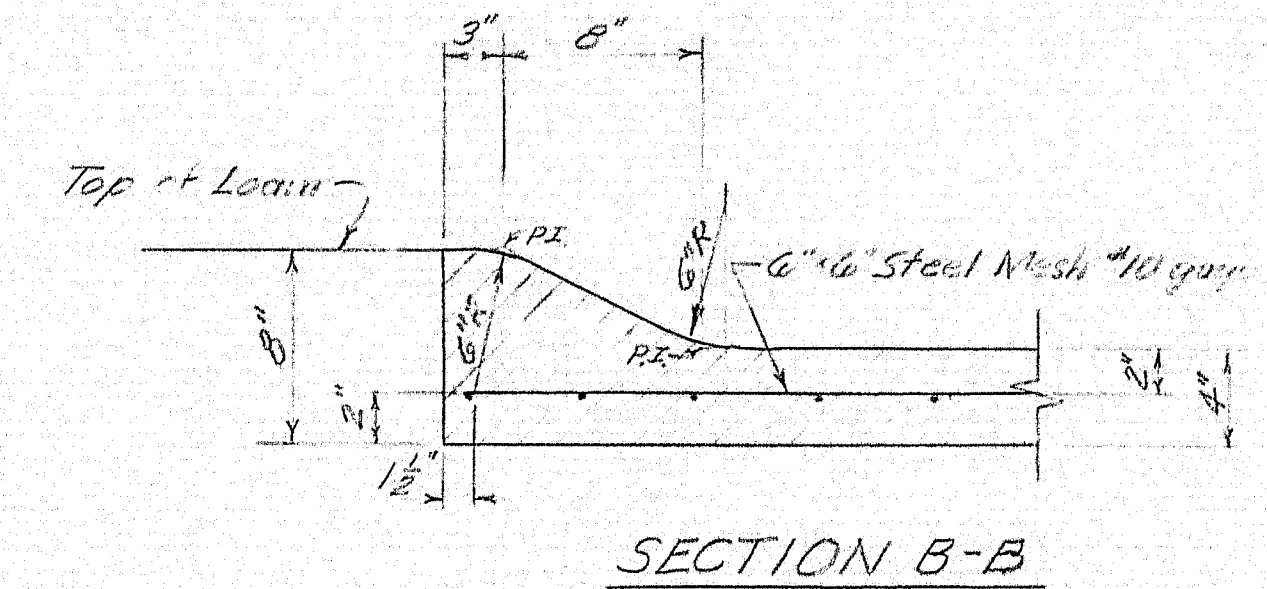
PLAN - ABUTMENT 1



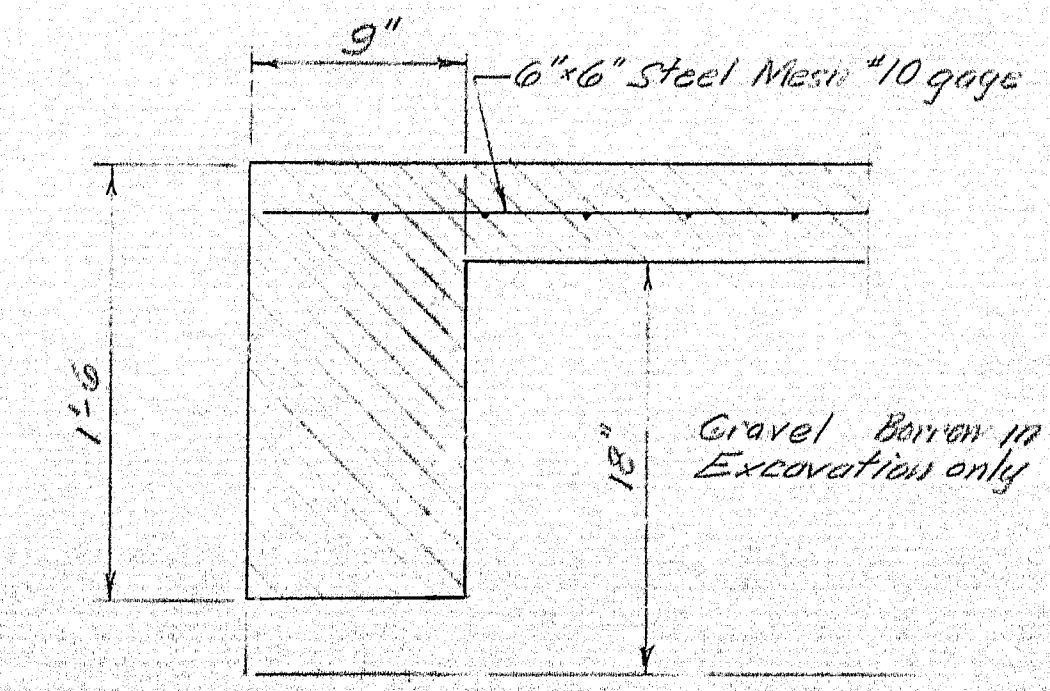
PLAN - ABUTMENT 2



SECTION A-A



SECTION B-B

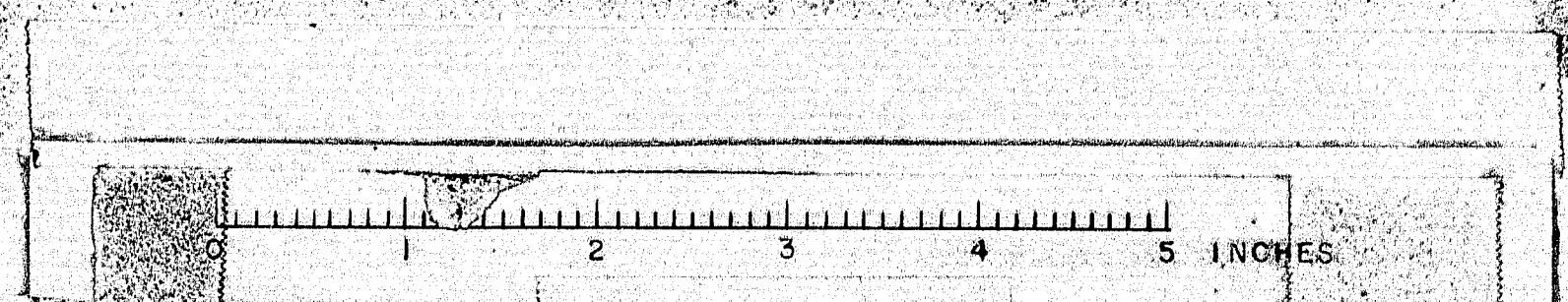


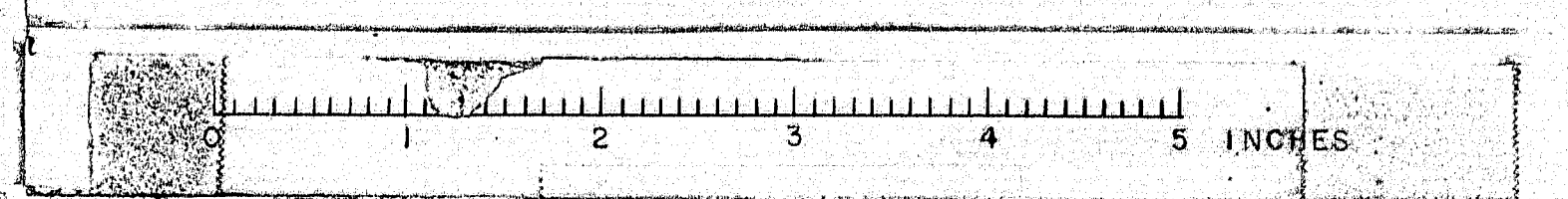
SECTION C-C

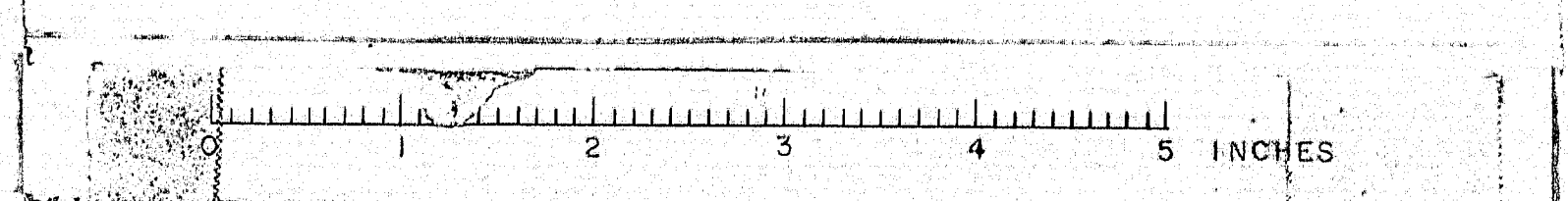
- NOTES:
1. Break bond at Construction Joints with a coat of asphalt paint.
 2. Reinforce with 10 gage 6"x6" steel mesh, not to pass through construction joints.
 3. Dummy Joints shall be made with a sidewalk edging tool to a depth of 2".
 4. The 18" of Gravel Borrow under the Slope Paving may be reduced or omitted if, in the opinion of the Engineer, the existing material is suitable. Payment for excavation for Gravel Borrow under slope paving to be made under Item 203-9, "Earth Excavation."

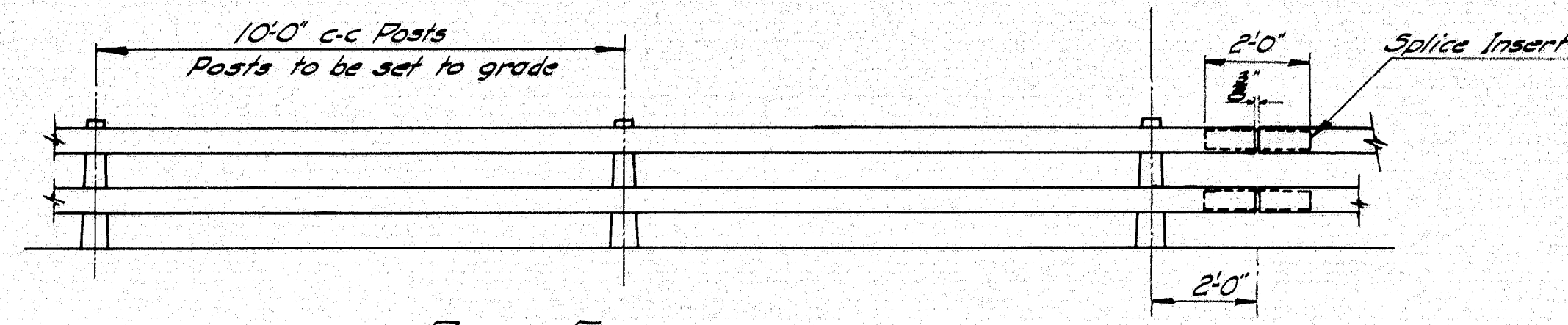
DESIGN - A. P. R. TRACE & DETAIL - J. C. CHECK - E. H. S.	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ROUTE 157	
OVER	
INTERSTATE 95	
IN THE TOWN OF	
MEDWAY	
PENOBSCOT COUNTY	
SLOPE PAVING	
SHEET 27 OF 27 AUGUSTA, MAINE DEC 1964	

M-2458



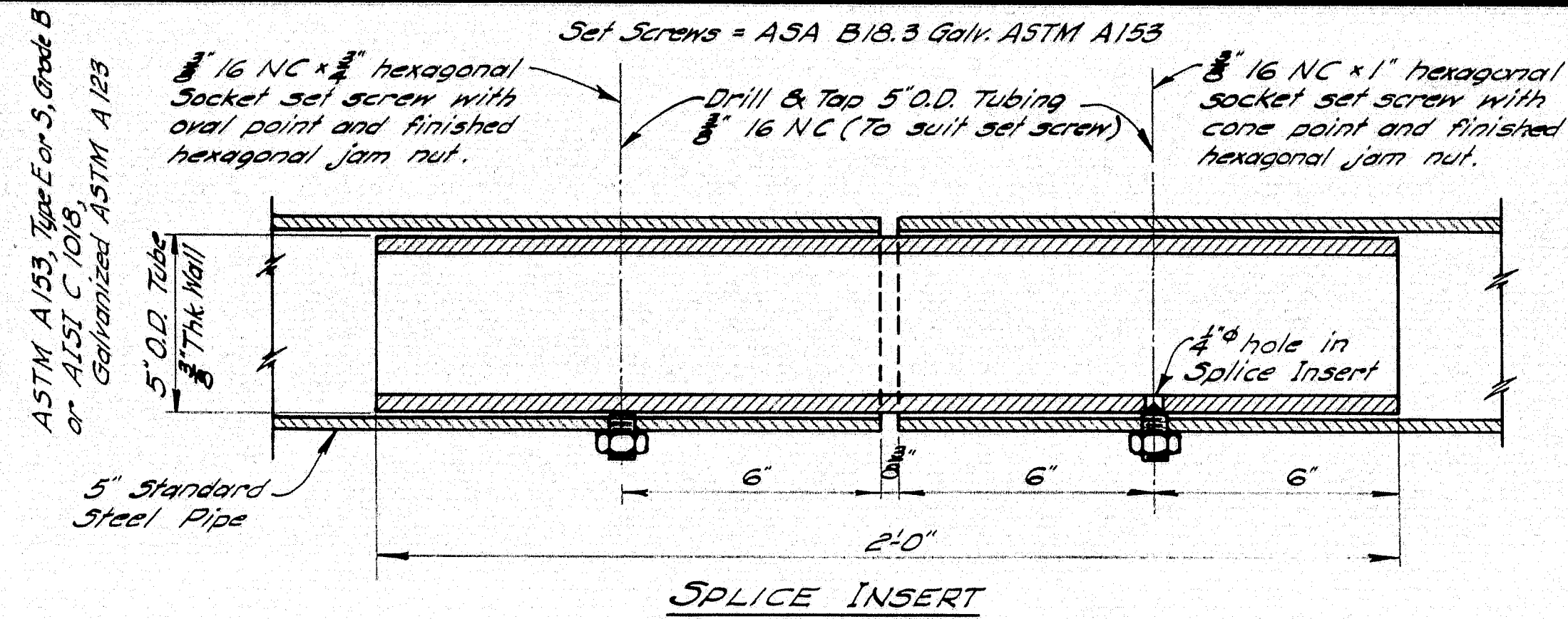




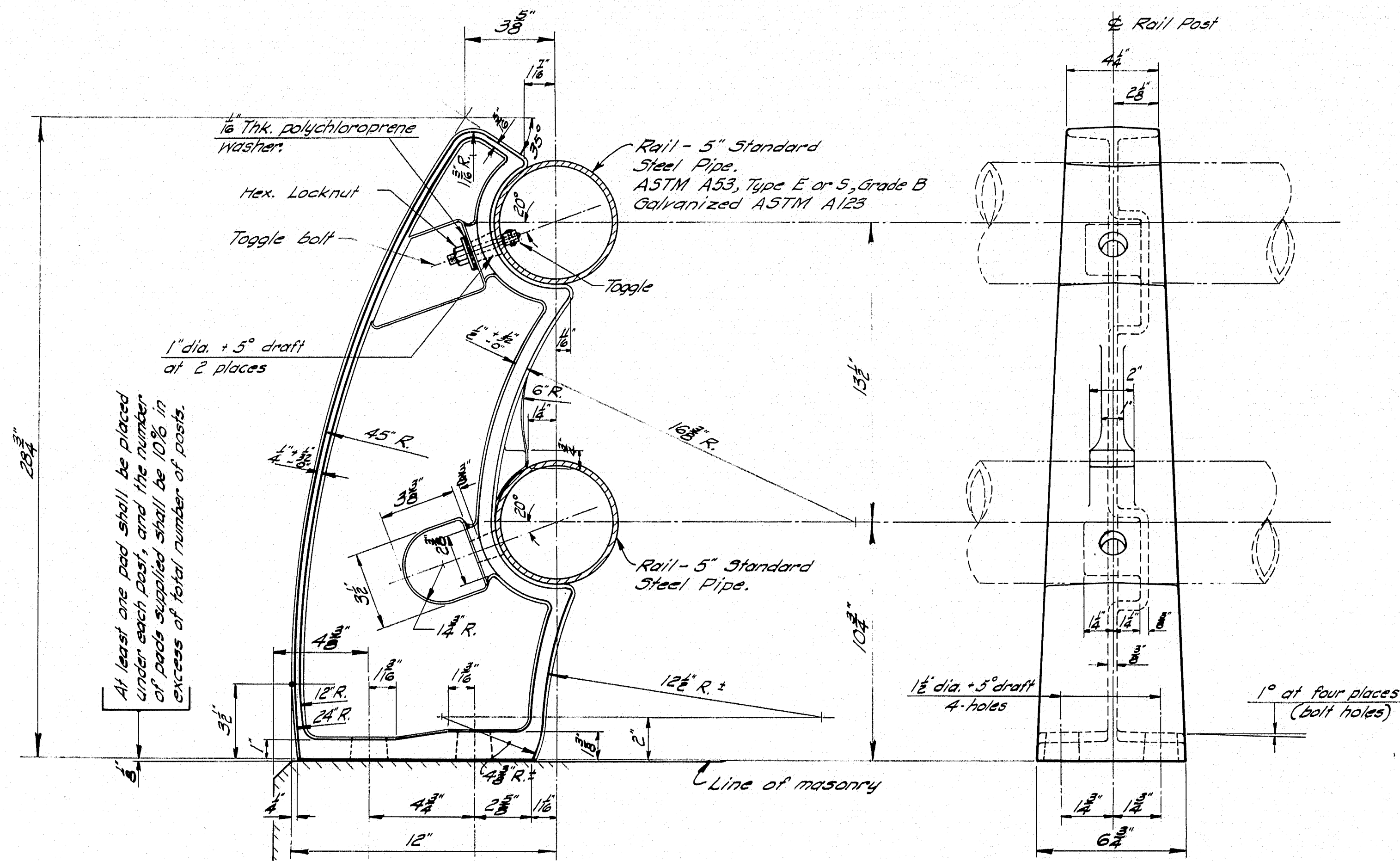


RAIL ELEVATION

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

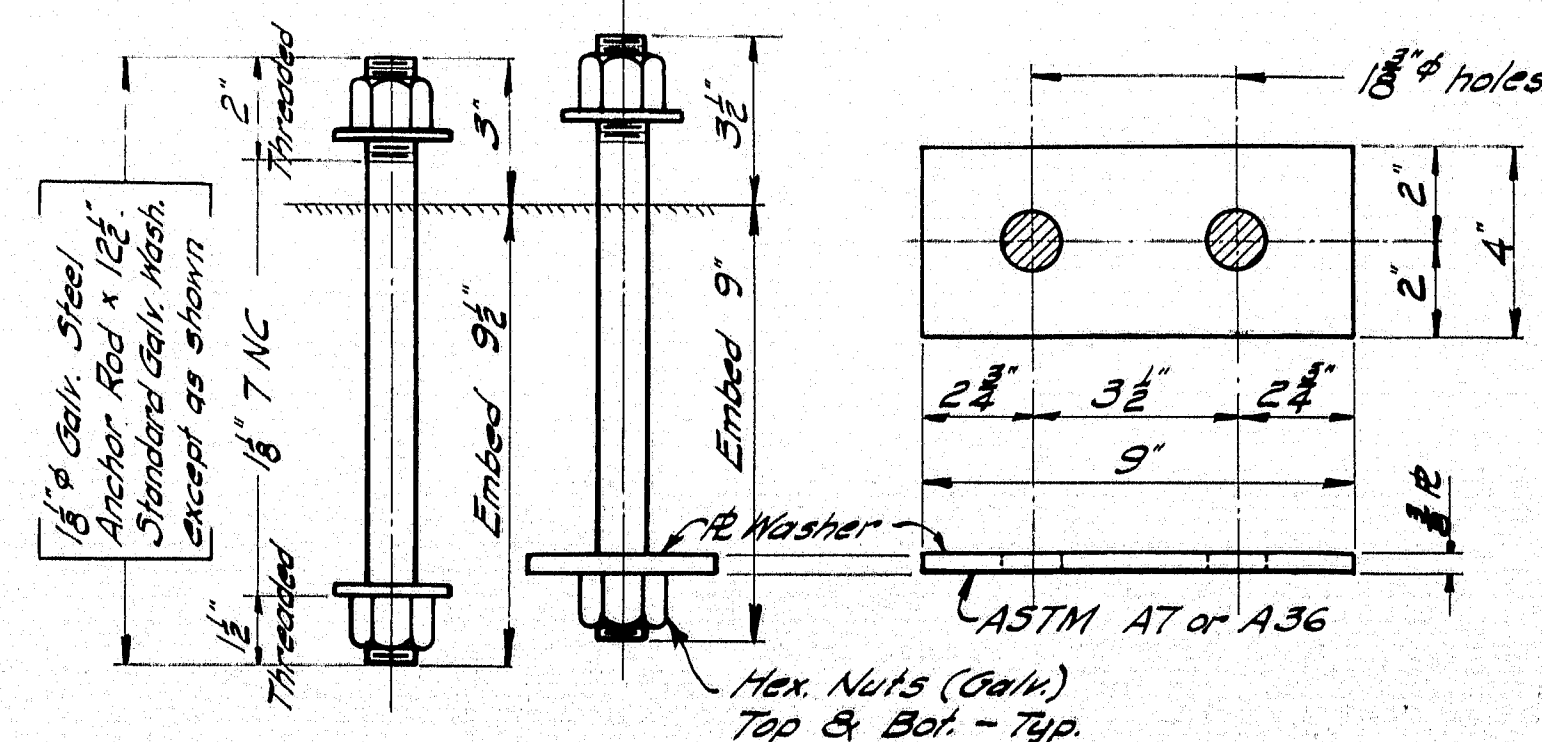


SPlice INSERT



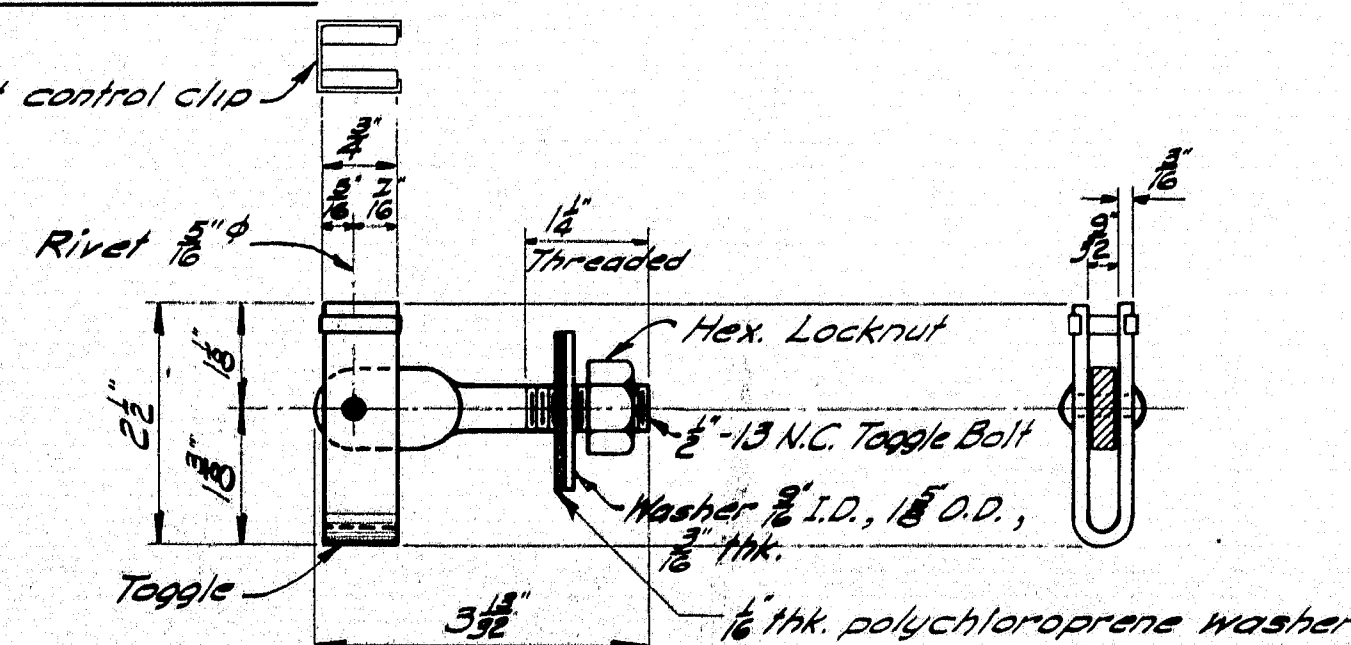
RAIL POST

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



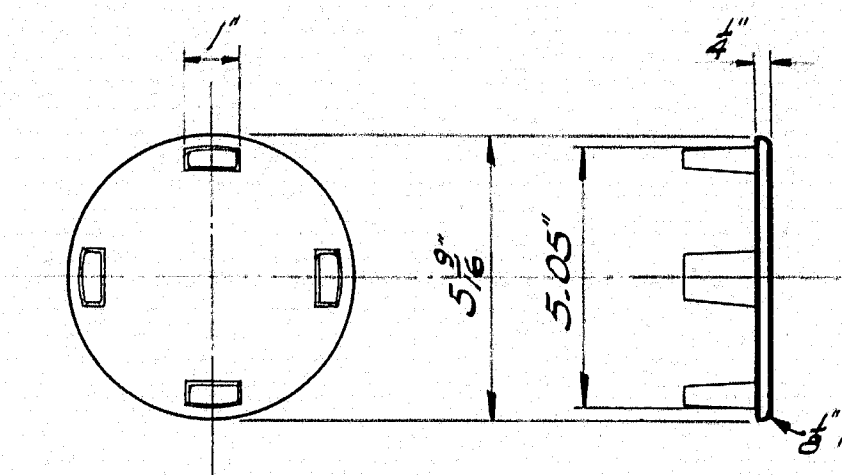
RAIL POST ANCHORAGE

Bolts, Nuts, & Std. Washers = ASTM A325 Galvanized ASTM A153



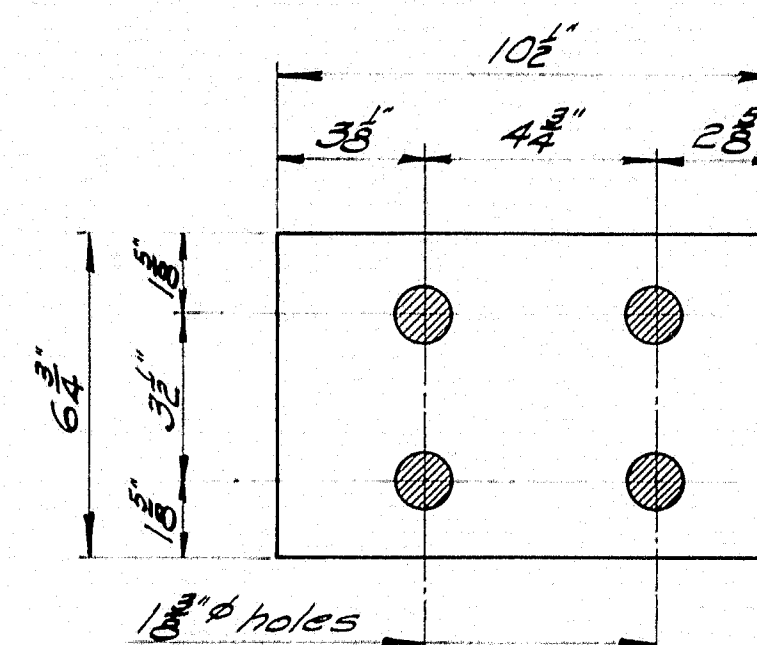
TOGGLE BOLT DETAIL

Cadmium Plate metal parts ASTM A165-55, Type N5, .0005" thick



RAIL CAP

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



PAD

At each rail post
See Article 702-80 Supplemental Specifications of Feb. 1960.

DESIGN SPECIFICATIONS

A. A. S. H. O. Interim Specifications Int. 1 (64)

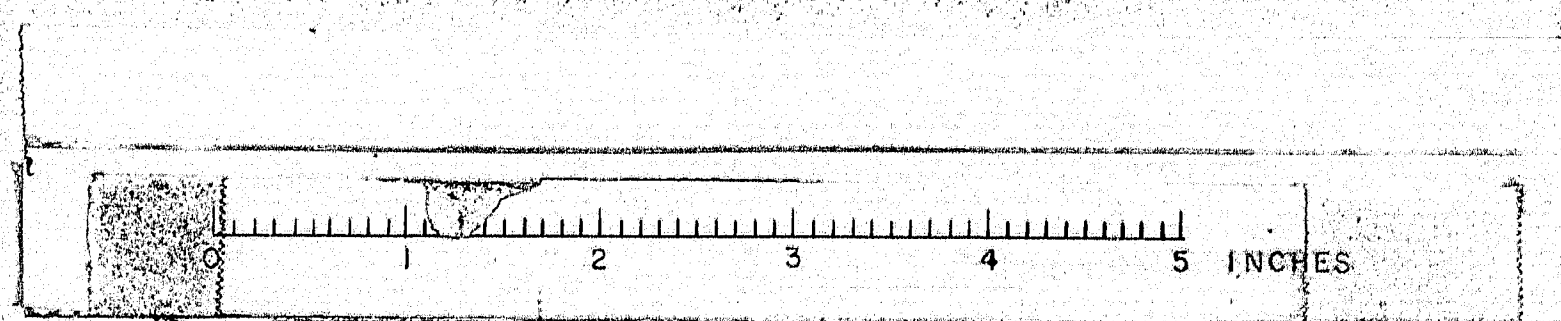
- Toggle = ASTM A303, 1015 H.R. Steel.
- Rivet = ASTM A195, 1035 C.R. Steel, Heat Treated
- Toggle Bolt = ASTM A354, 1335 C.R. Steel, Heat Treated RC 32-38.
- Washer = ASTM A7, 1020 H.R. Steel
- Hex Locknut = Finished Hexagonal Locknut Prevailing Torque Type Steel Grade Cor D, Industrial Fasteners Institute.

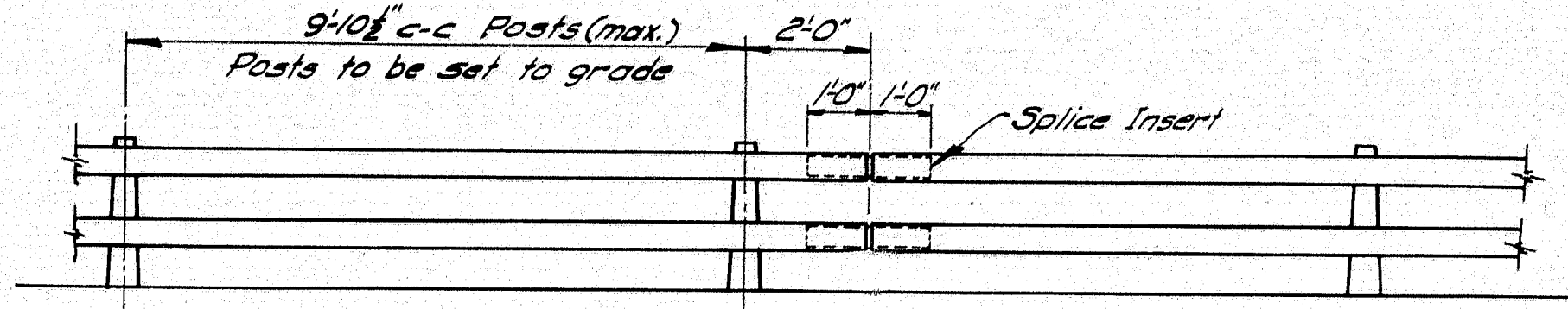
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS
(BD 107-64)
STEEL RAIL
(2-BAR PIPE RAIL)
CAST POST

OCT. 1964

M-2458E

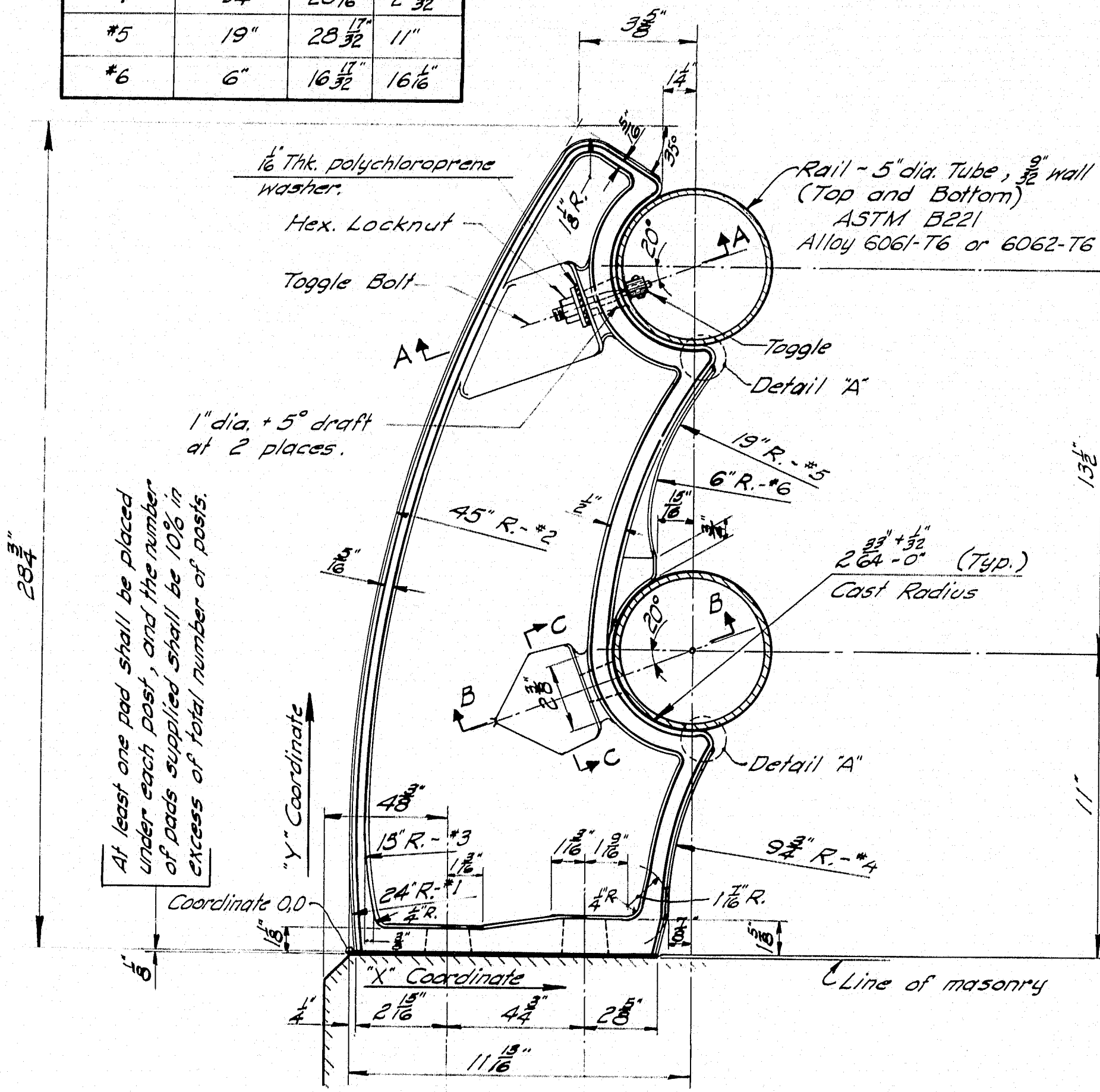


RAIL ELEVATION

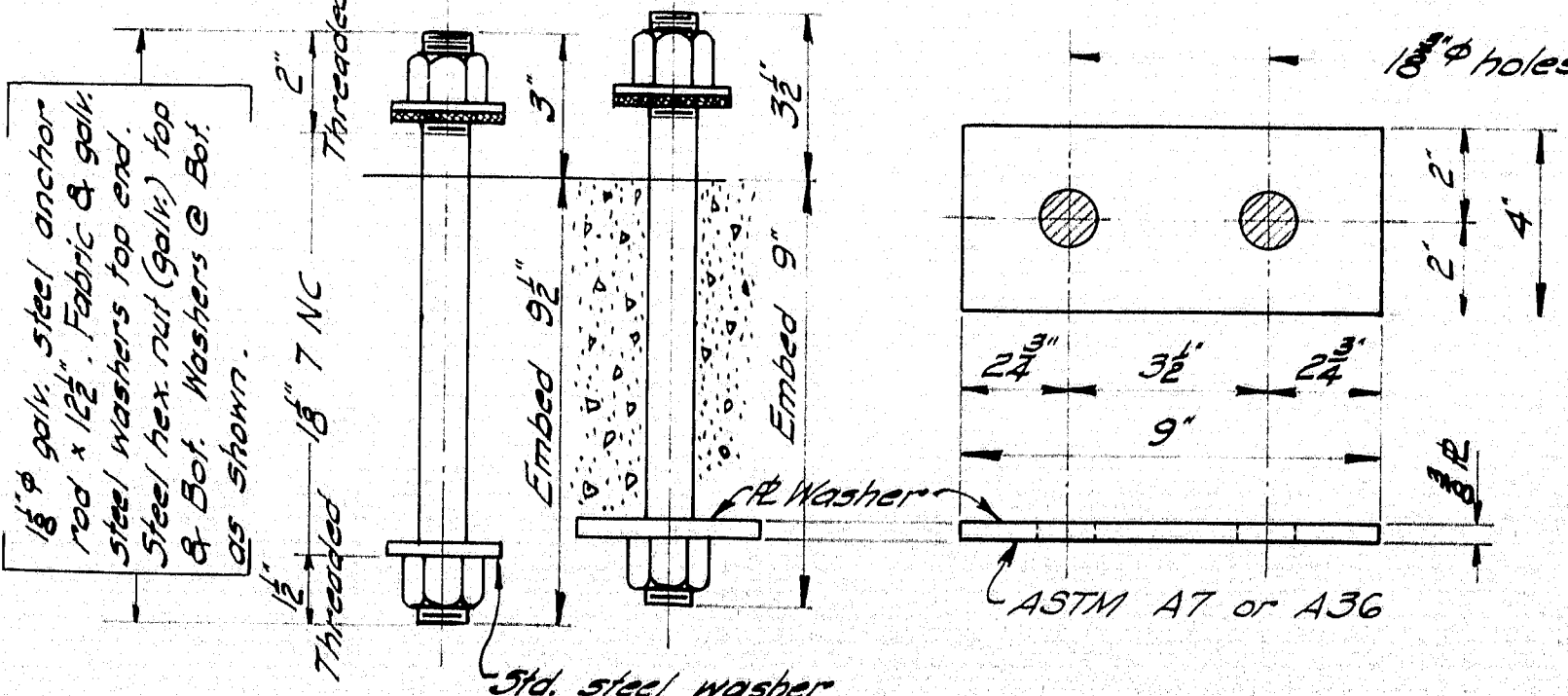
Lengths of rail shall be attached to a minimum of (4) four rail posts, wherever possible, and in any case never less than (2) two.

① ORIGIN LOCATION-PRINCIPAL CURVES

Curve	Radius	"X"	"Y"
*1	24"	24"	3 $\frac{15}{32}$ "
*2	45"	45"	2 $\frac{27}{32}$ "
*3	15"	15 $\frac{11}{16}$ "	4 $\frac{23}{32}$ "
*4	9 $\frac{3}{4}$ "	20 $\frac{11}{16}$ "	2 $\frac{13}{32}$ "
*5	19"	28 $\frac{17}{32}$ "	11"
*6	6"	16 $\frac{11}{32}$ "	16 $\frac{1}{8}$ "

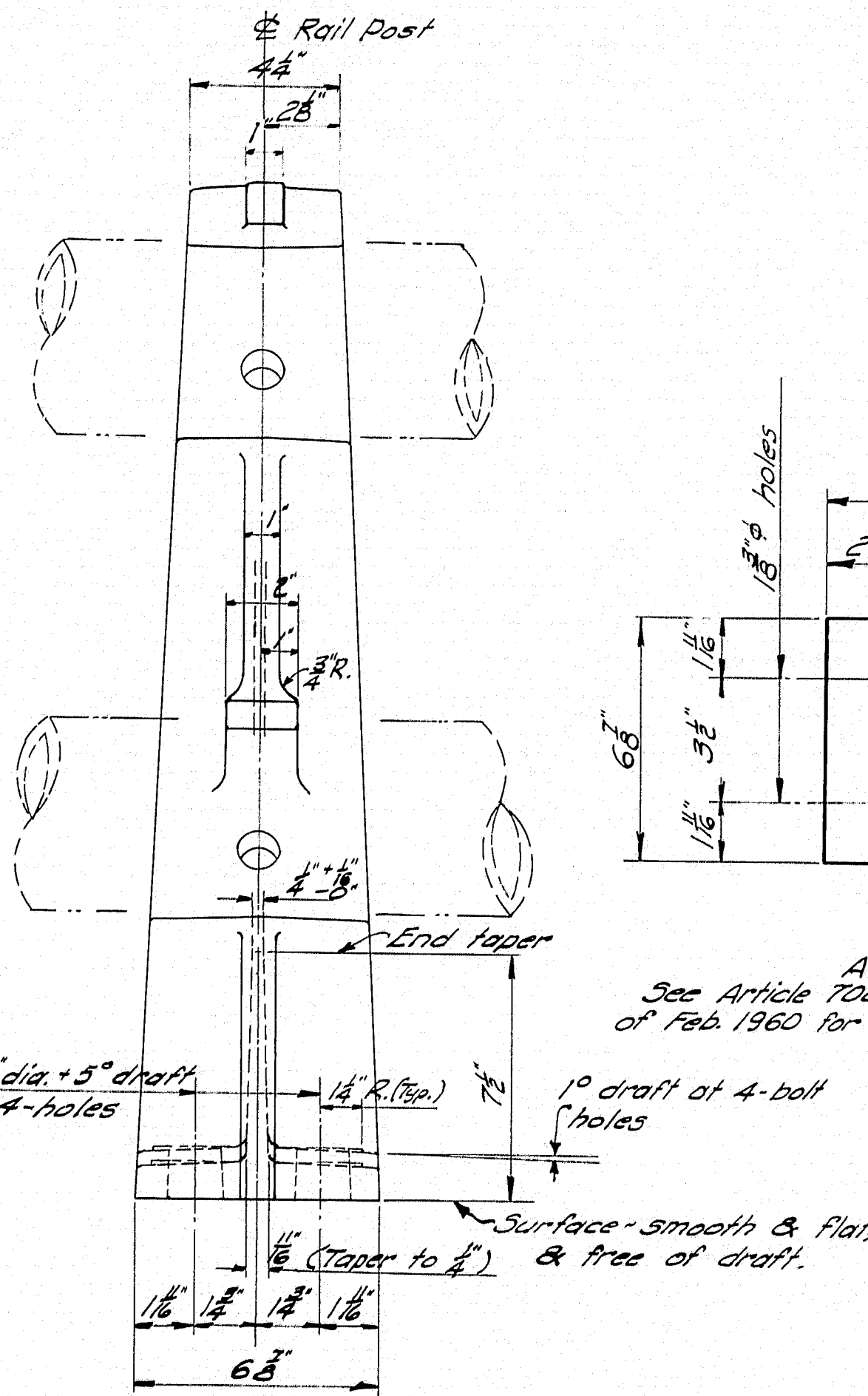
RAIL POST

Aluminum Association Alloy A344-T4

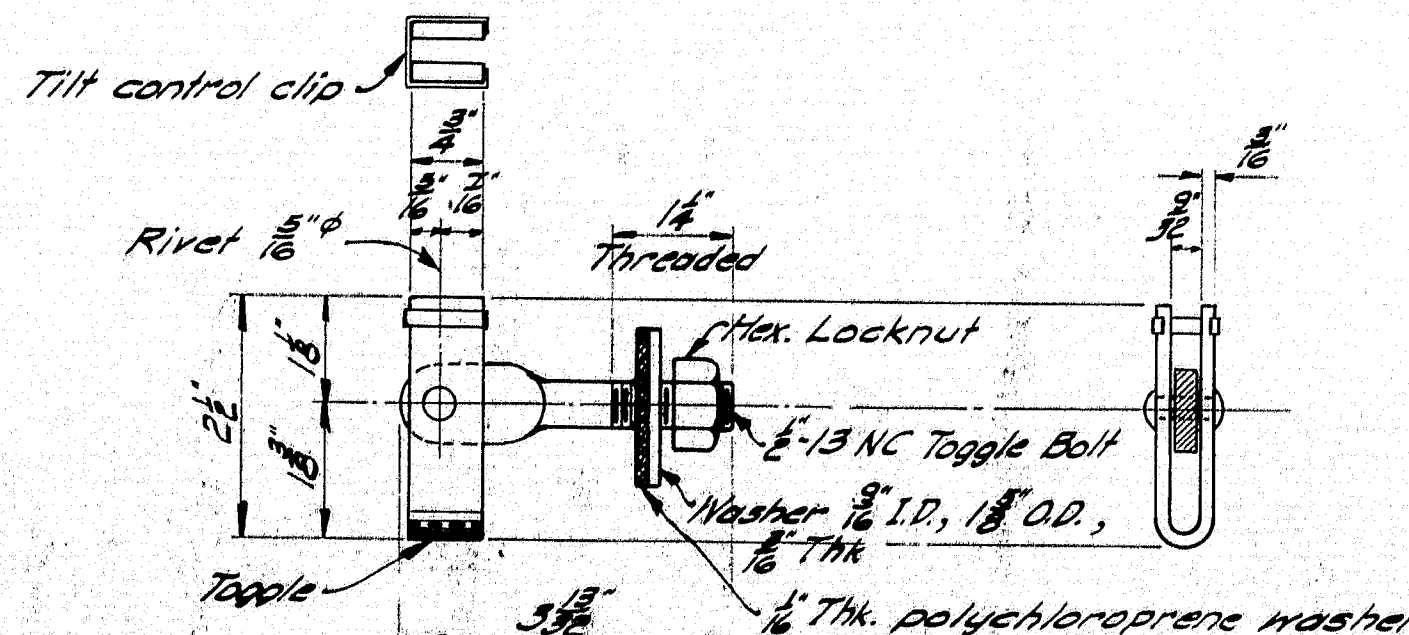


RAIL POST ANCHORAGE

Bolts, Nuts & Std. Washers = ASTM A325 Galvanized ASTM A153

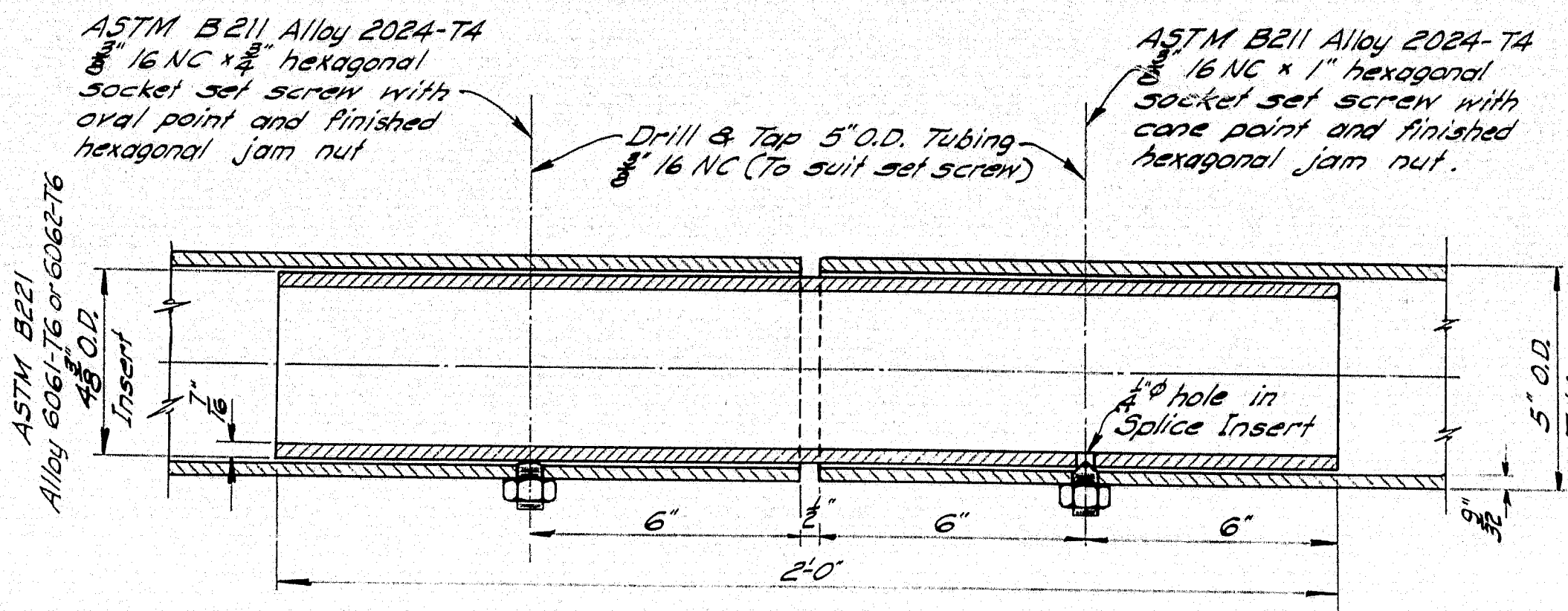


FRONT ELEVATION

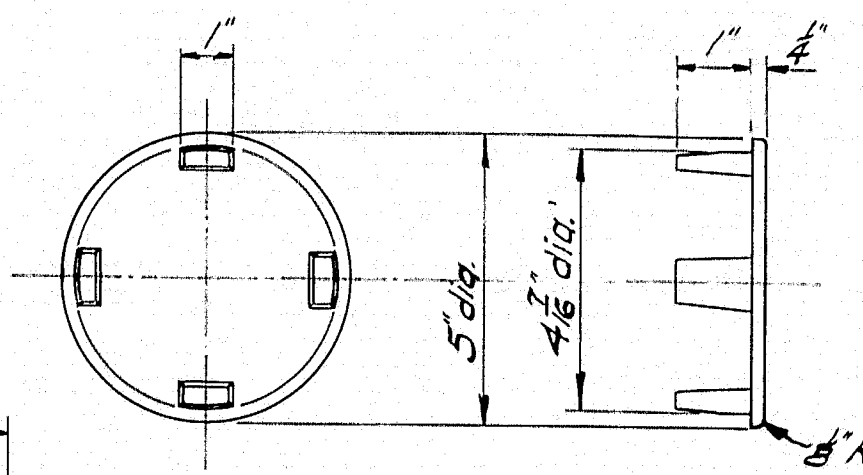


TOGGLE BOLT DETAIL

Cadmium Plate metal parts ASTM
A165-55, Type N5, .0005" thick.

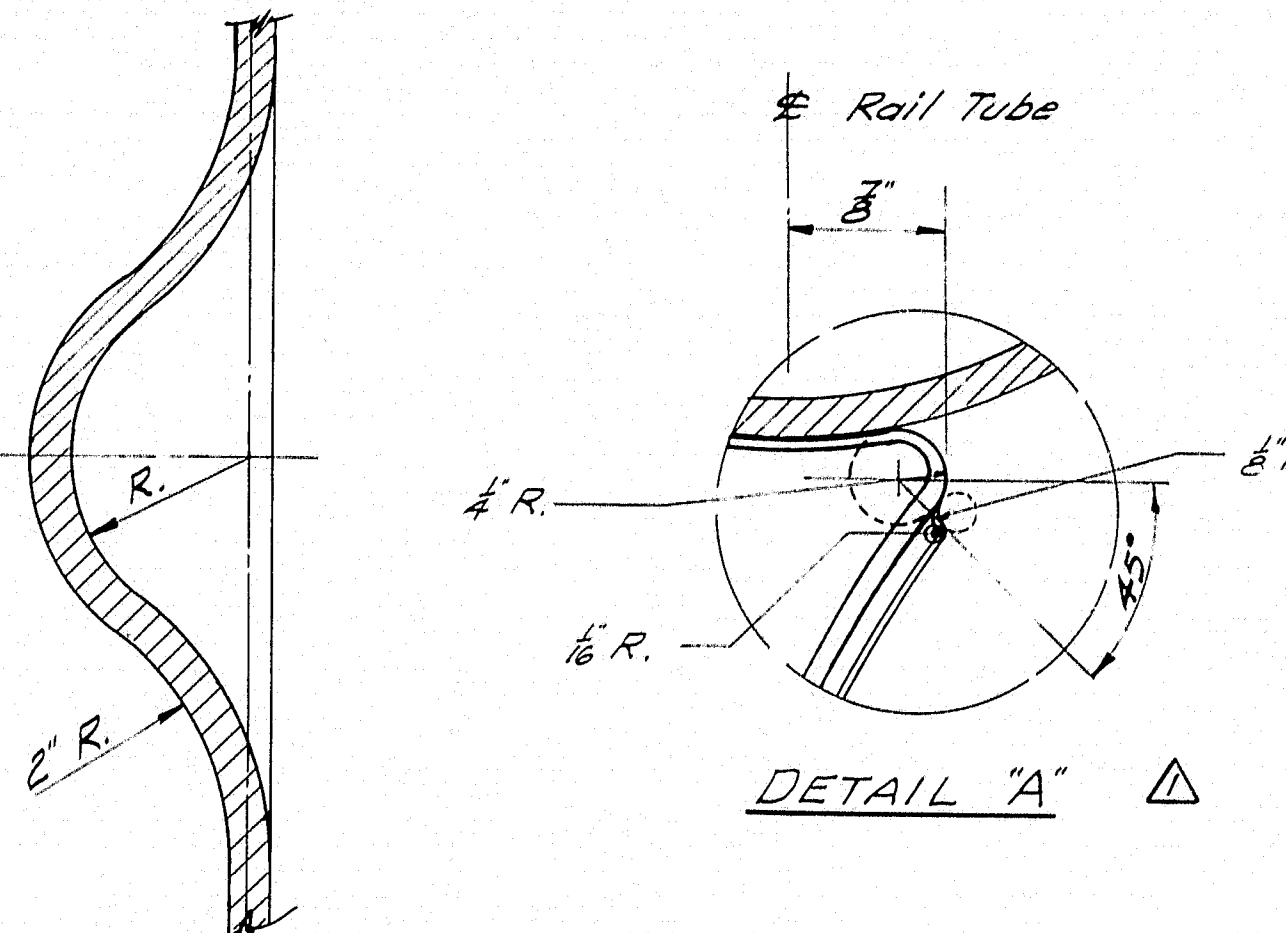


SPLICE

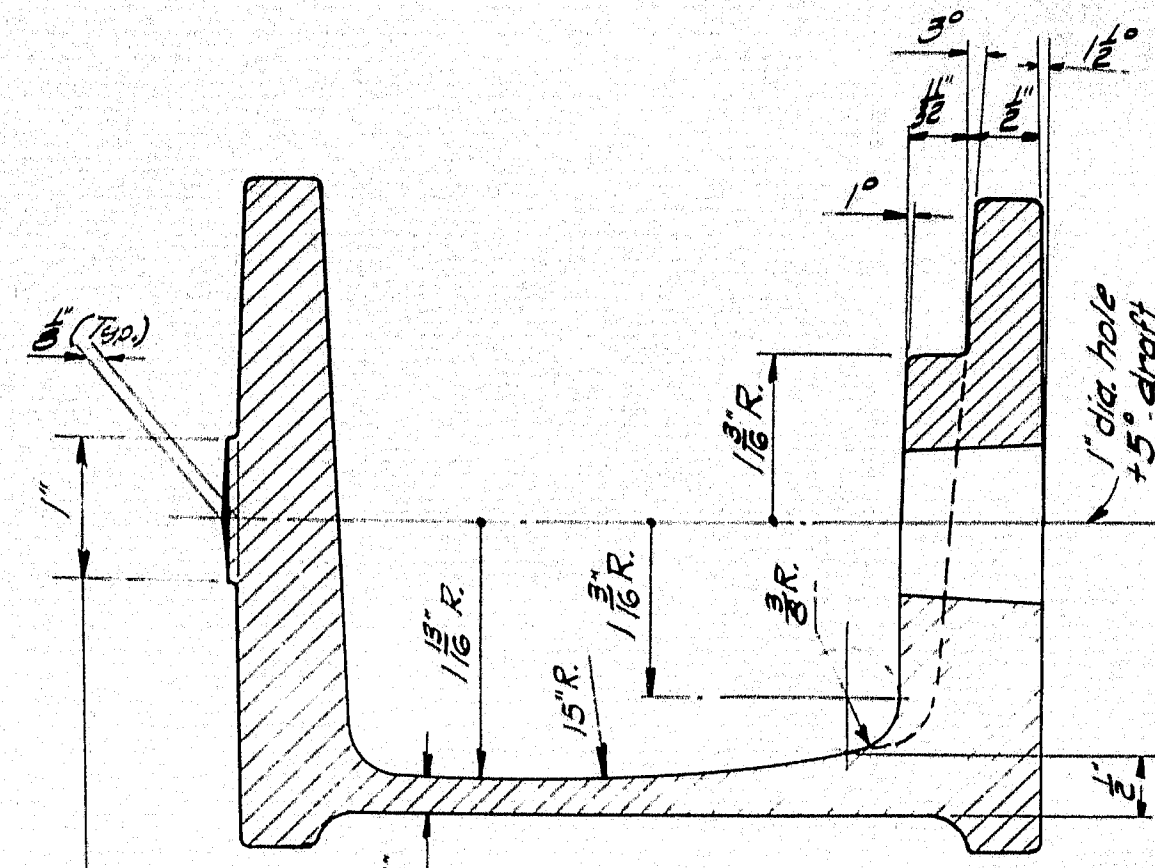


RAIL CAP

ASTM B26 Alloy SG 70 A or S5A

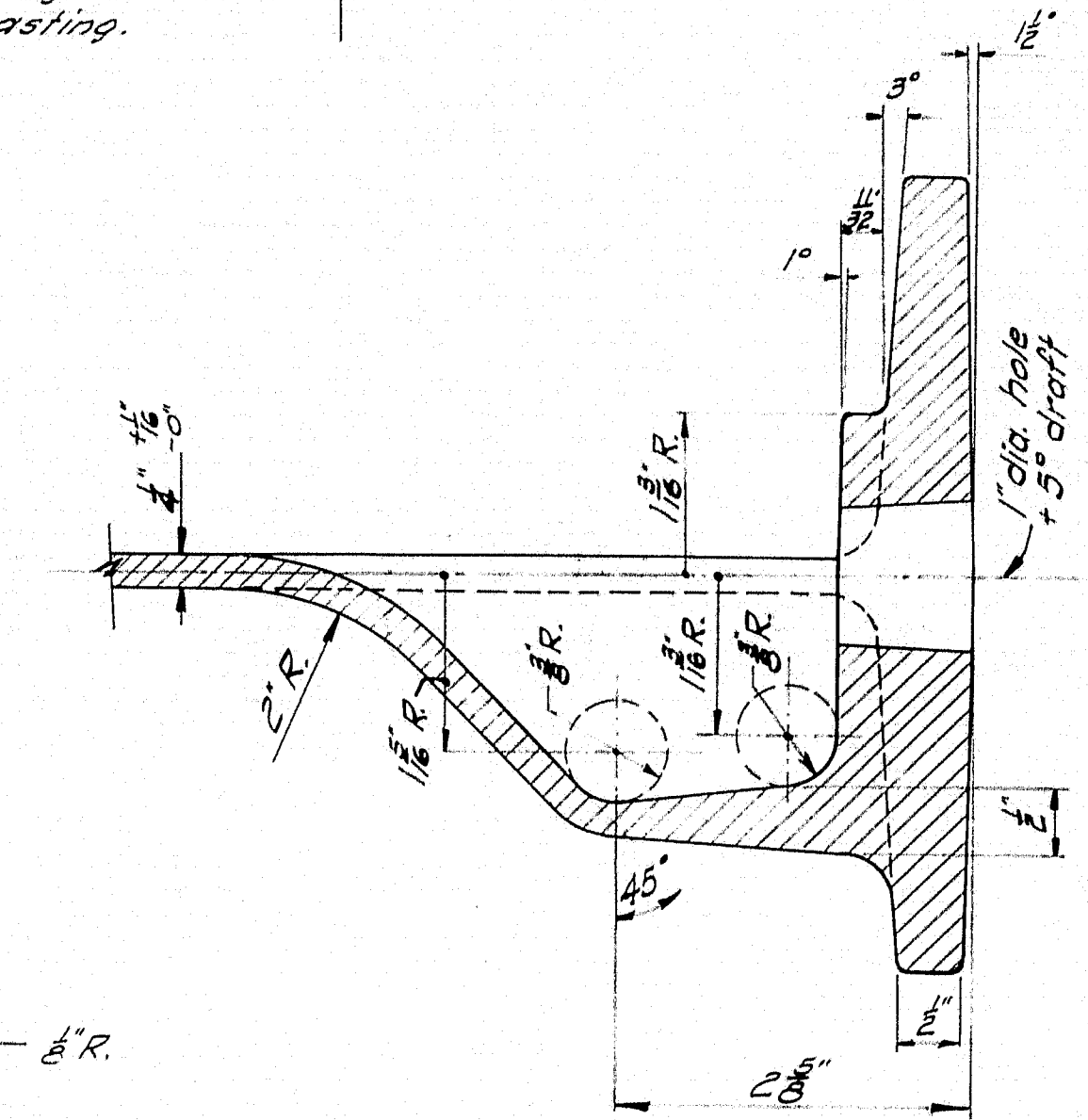


SECTION C-C



SECTION A-A

Casting to be supplied with a 60 grid belt grind finish on all gating rib surfaces around entire casting.



SECTION B-B

DESIGN SPECIFICATIONS

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

A 344-T4 Alloy to meet the Specification outlined by Aluminum Association.

ALTERATION:
 Δ - Added Detail "A" and Origin Location-
 Principal Curves. Nov. 19, 1964.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

(BD 108-64)

ALUMINUM RAIL

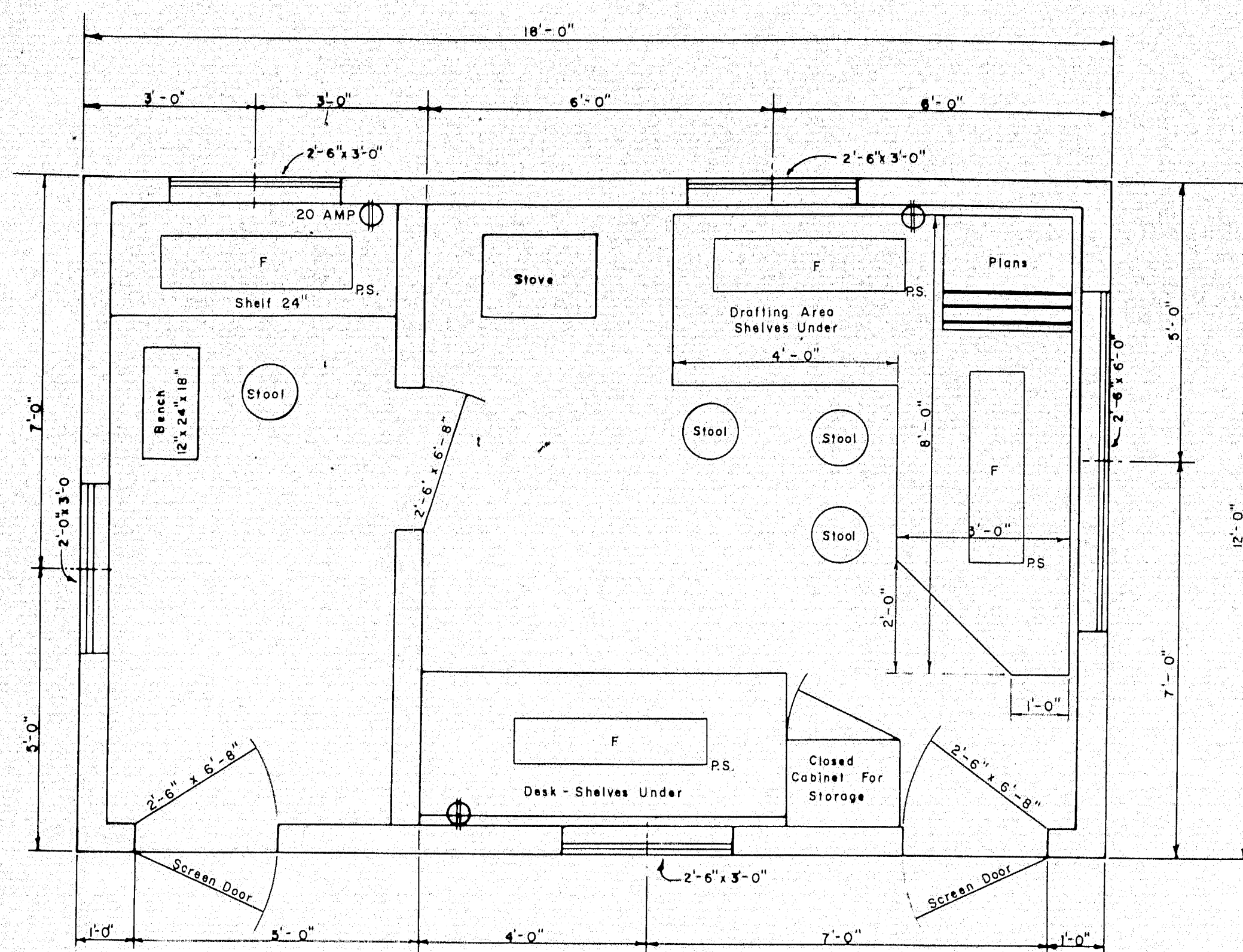
2 - BAR (TUBE RAIL)

CAST POST

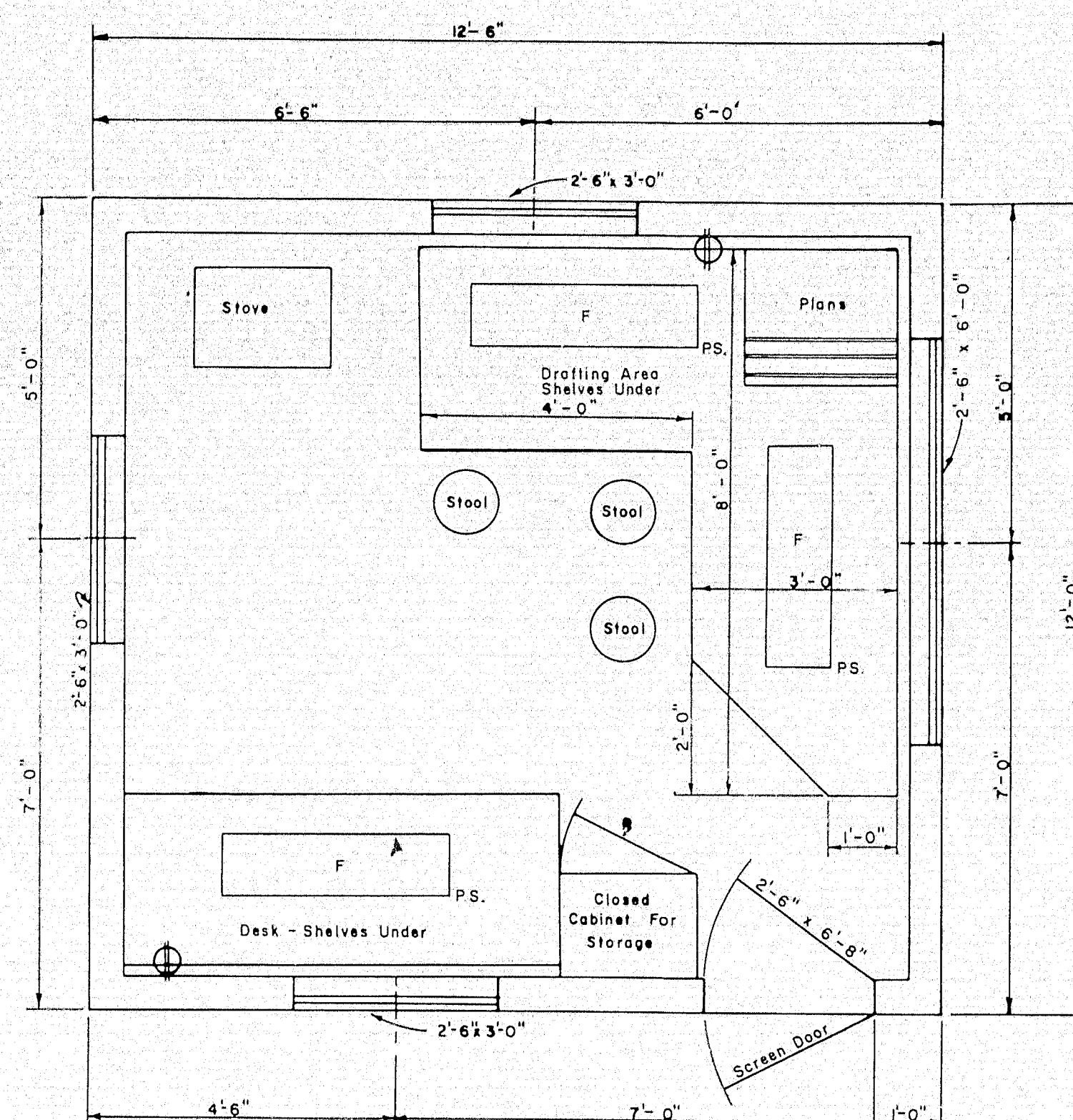
OCT. 1964

M-2459F

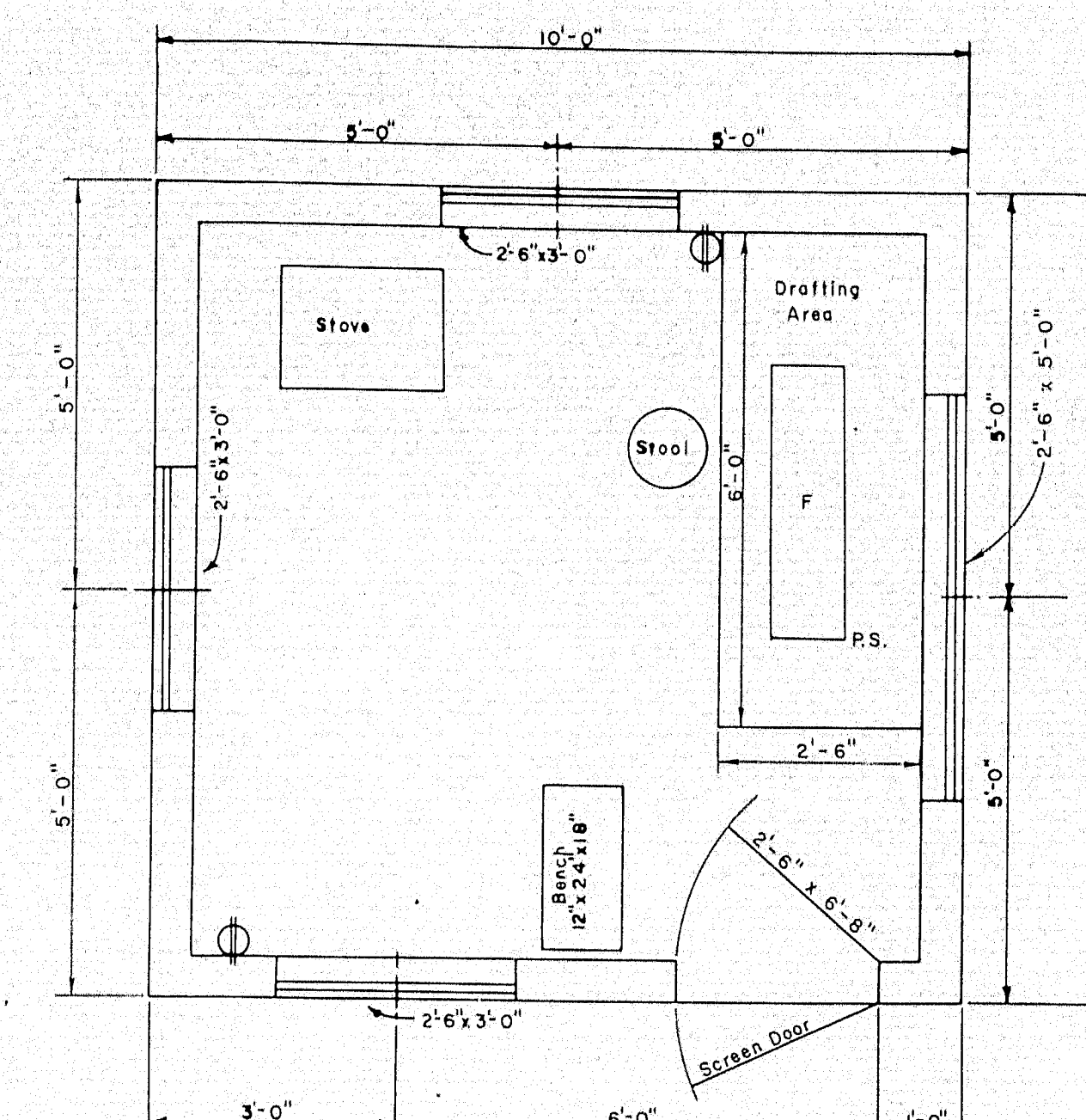
S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



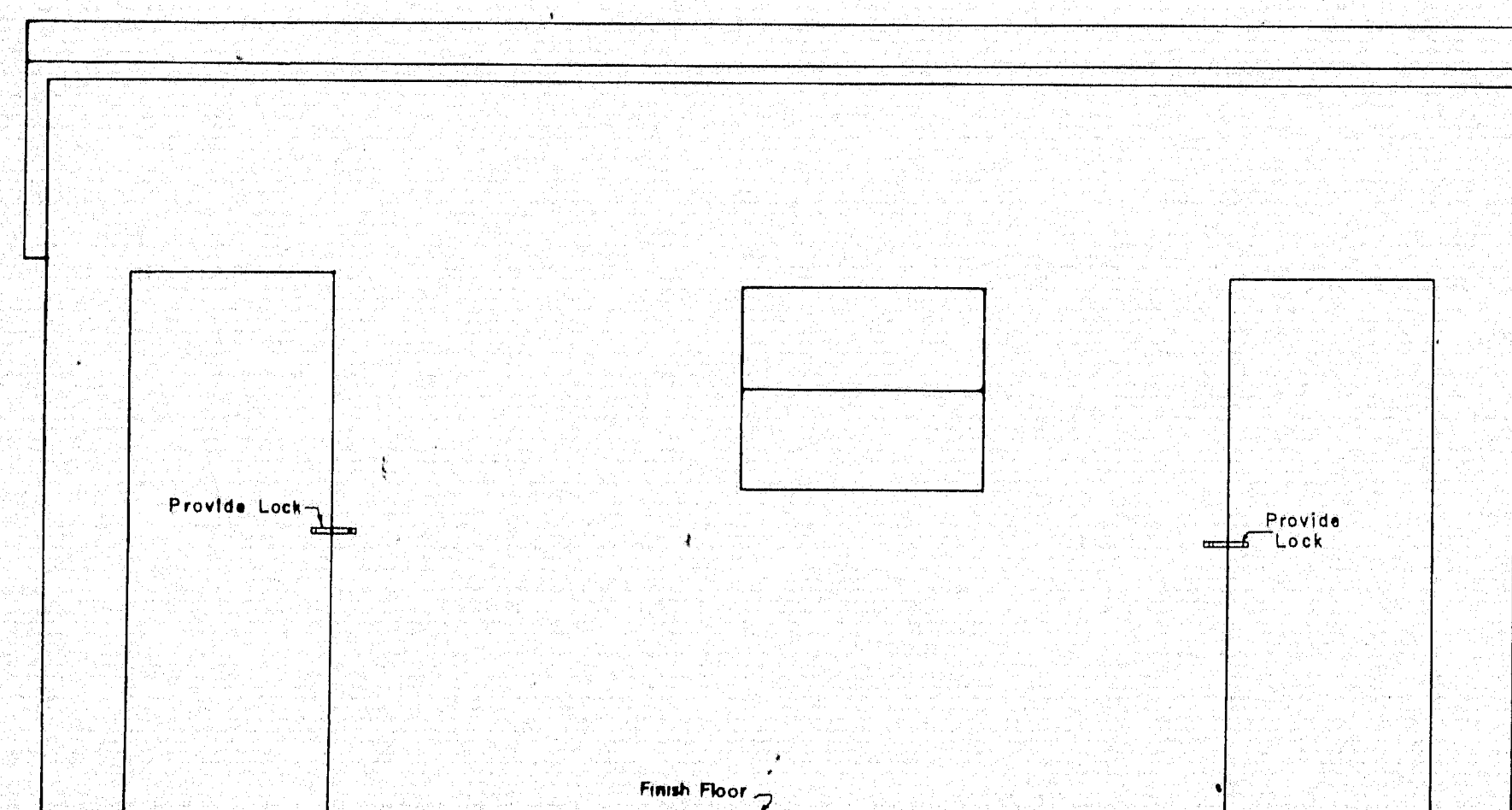
FLOOR PLAN
TYPE "A"



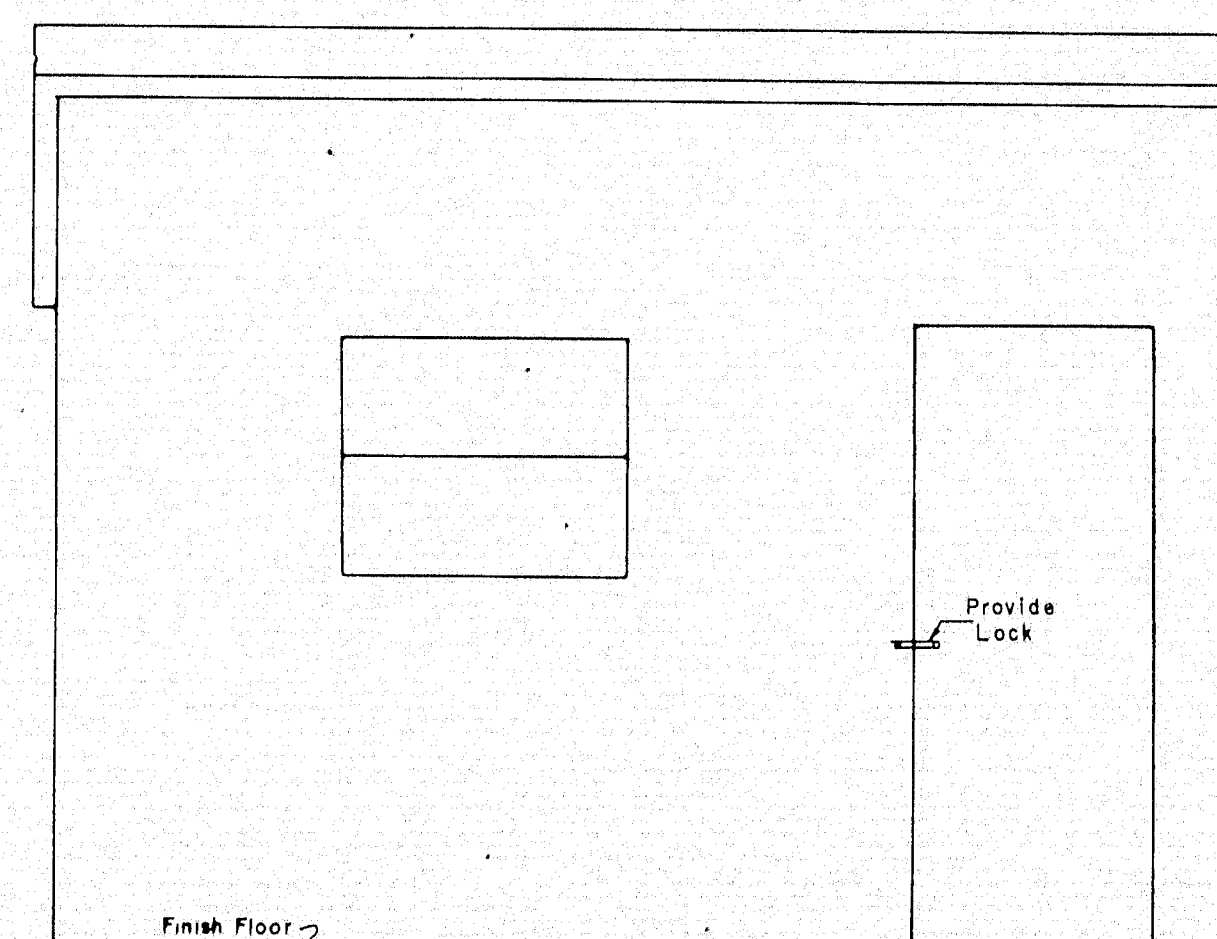
FLOOR PLAN
TYPE "B"



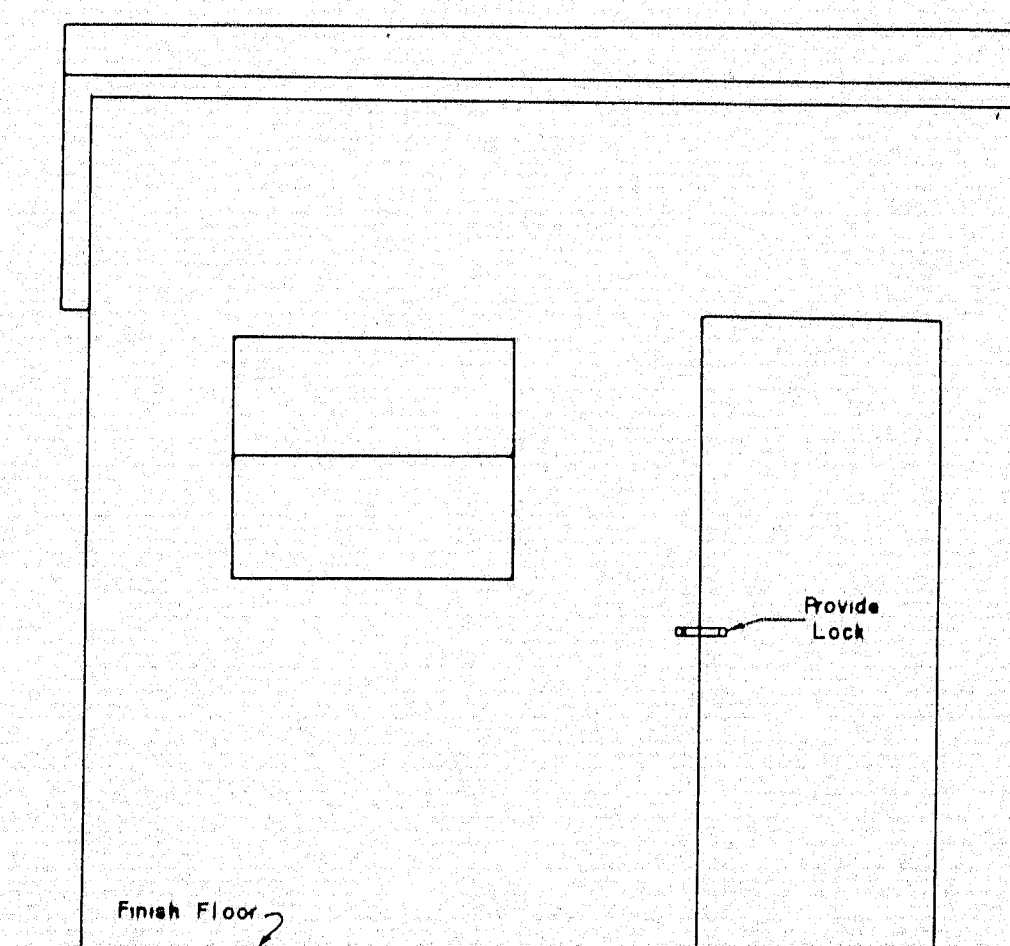
FLOOR PLAN
TYPE "C"



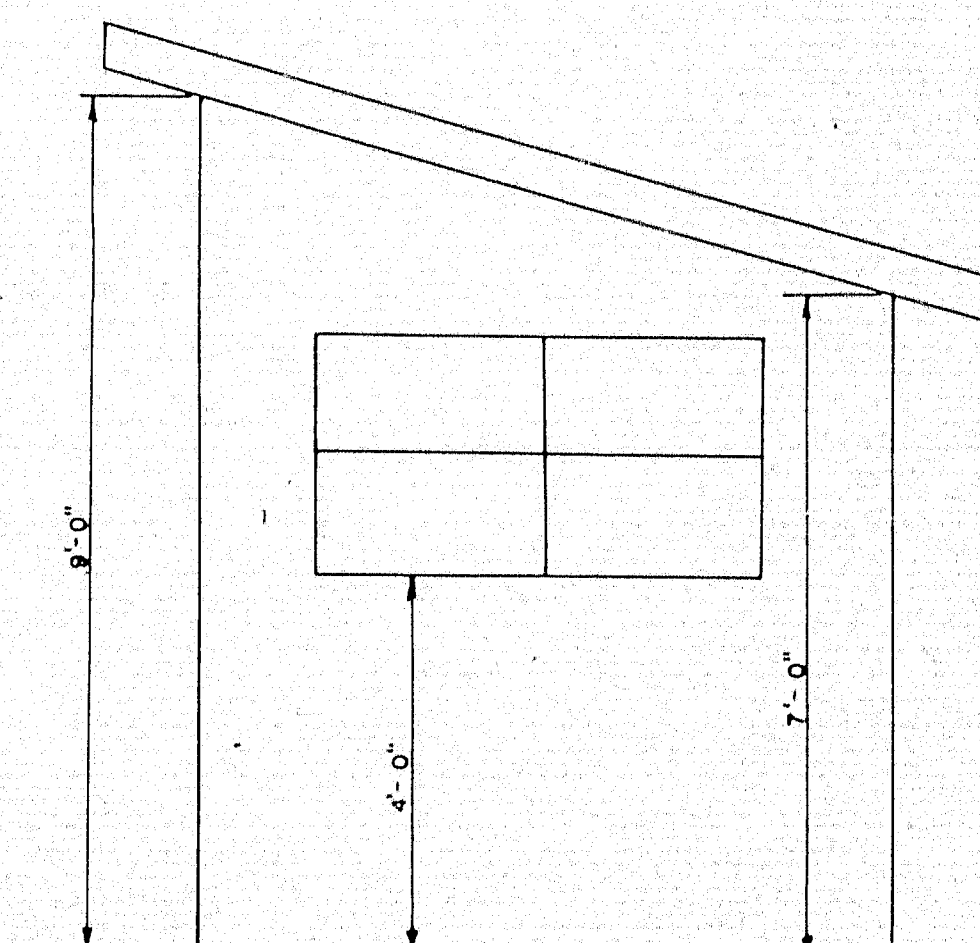
FRONT ELEVATION
TYPE "A"



FRONT ELEVATION
TYPE "B"



FRONT ELEVATION
TYPE "C"



SIDE ELEVATION
TYPES "A" "B" & "C"

- NOTES:
- Drafting table 3'-4" high at front edge.
 - Set drafting table out 2" from studs to allow prints to hang down behind table when in use.
 - The engineer may rearrange the items shown on the plan views during construction of the field office.
 - Shelves under desk to fit 11 1/2" x 14" x 25" trans files.
 - Windows shall be double hung.

ENGINEERS FIELD OFFICES

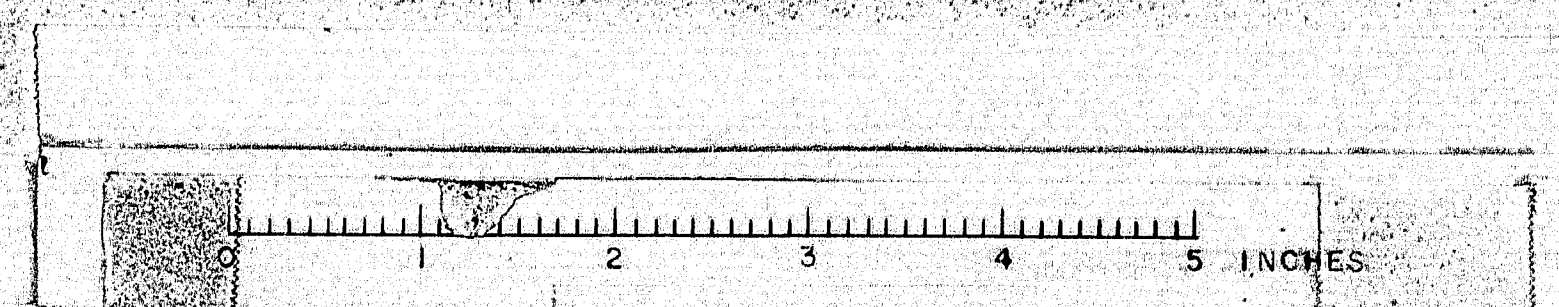
SCALE 1/2" = 1'-0"

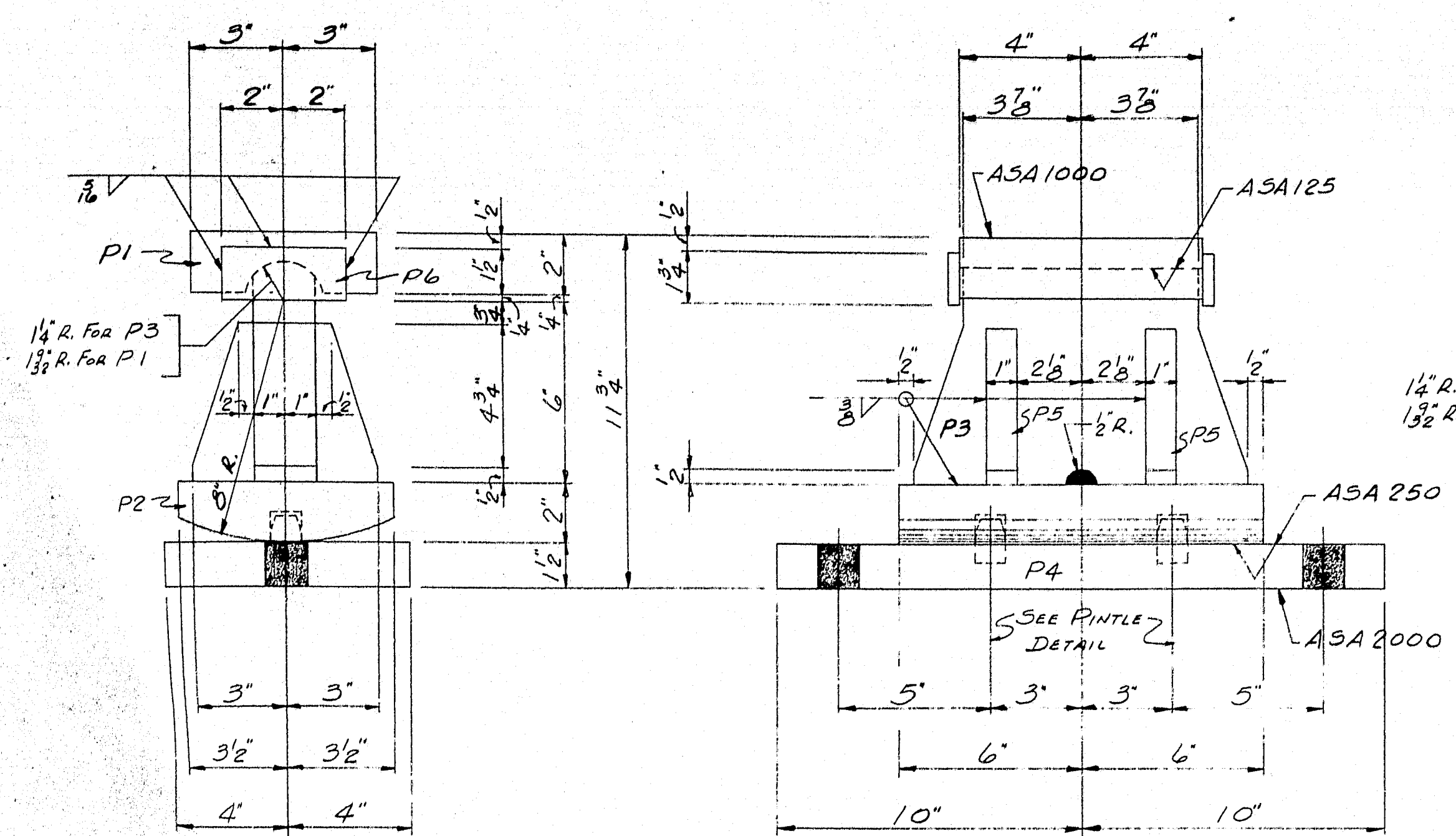
- FURNISHINGS TO BE SUPPLIED:
- 2 Straight back chairs for type A and B.
 - 1 Straight back chair for type C.
 - 3 Stools for type A and B.
 - 2 Stools for type C.

- SYMBOLS:
- Flourescent lights (2 light, rapid start 48" strips and 40 watt bulbs).
 - PS. --- Pull switch.
 - ⊕ --- Duplex wall outlet - 15 amp unless otherwise noted.

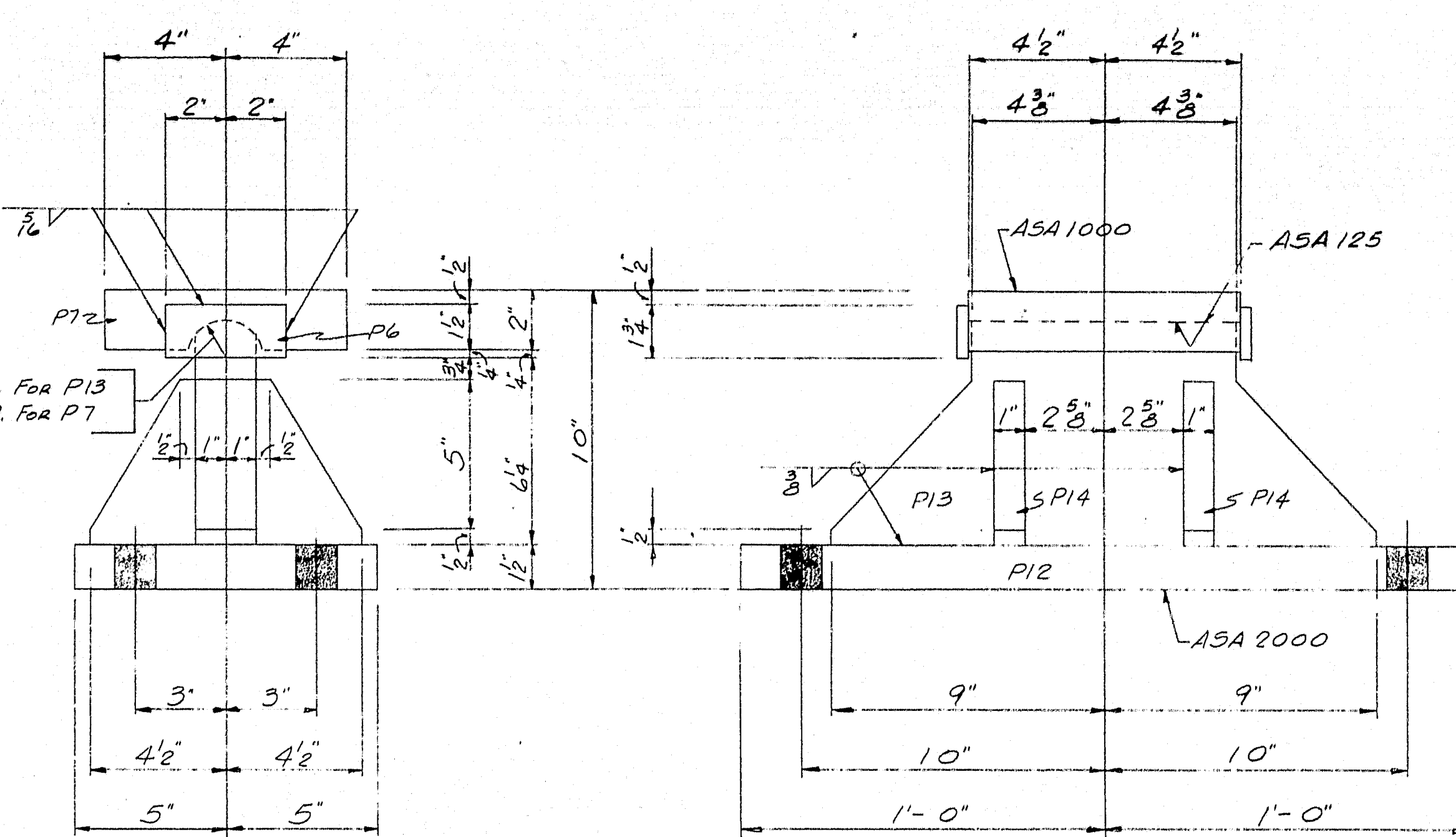
M2458G

NOV. 1964

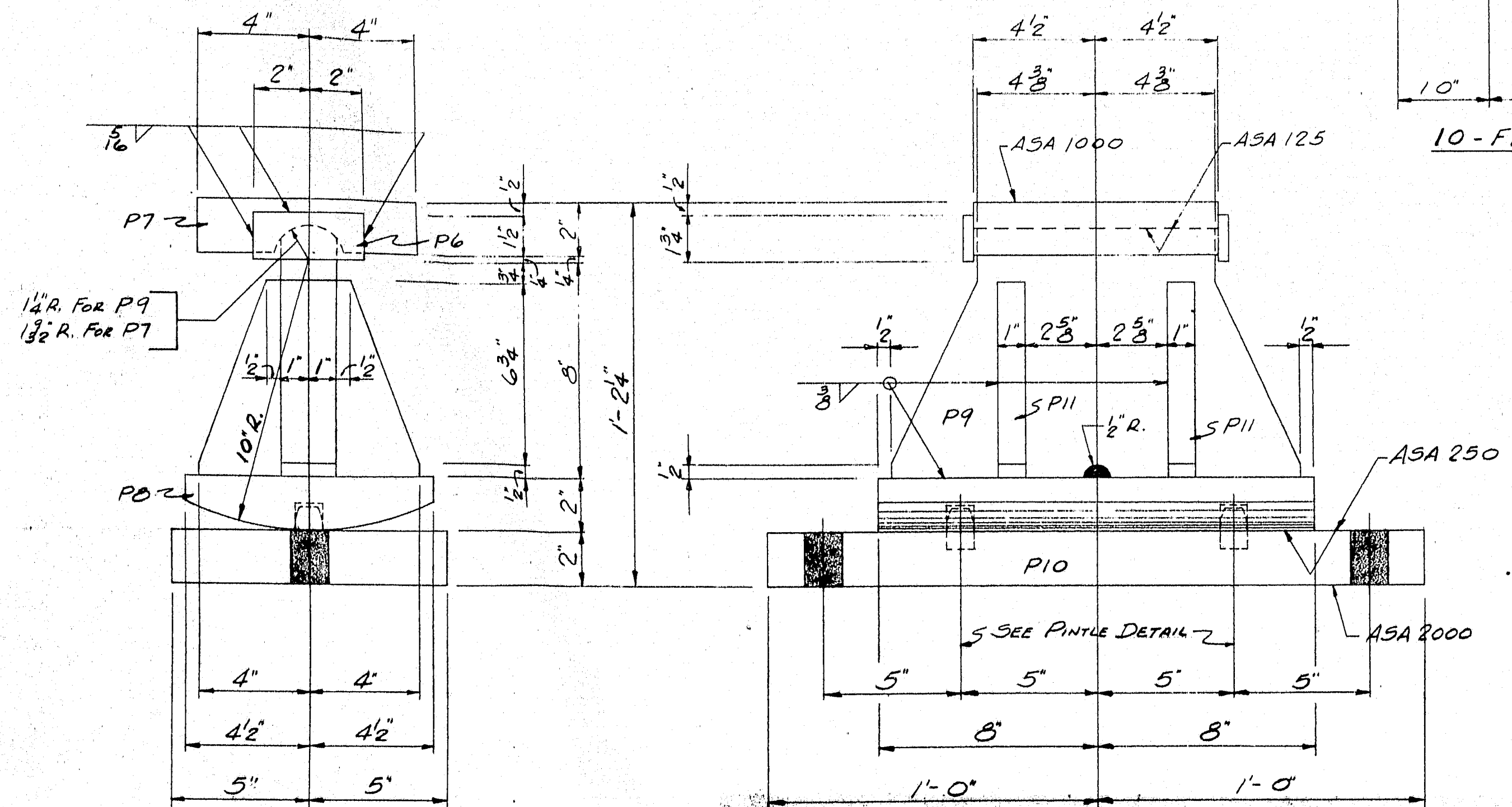




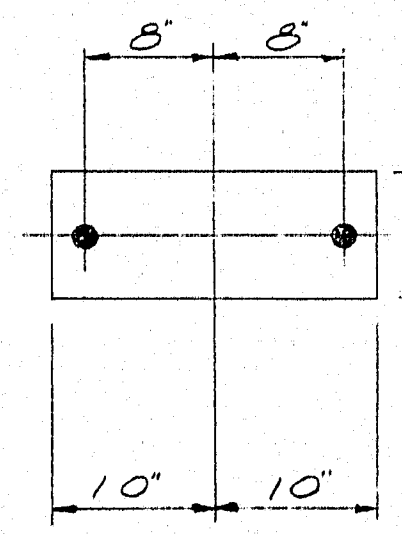
10-EPC-2



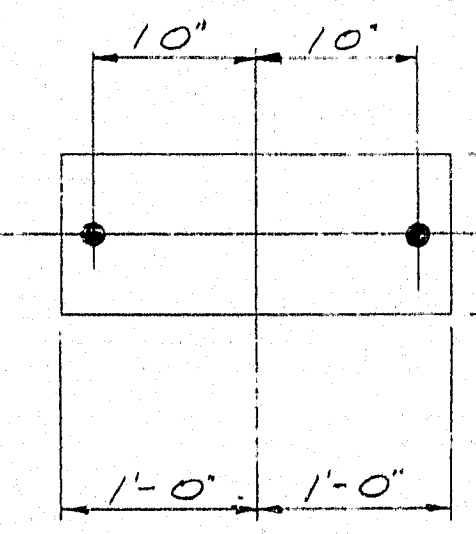
5-FPC-3



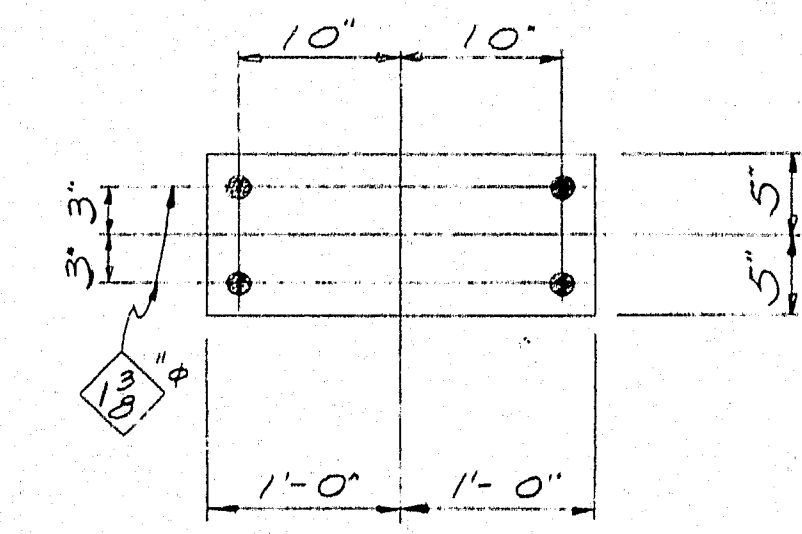
15-EPC-5



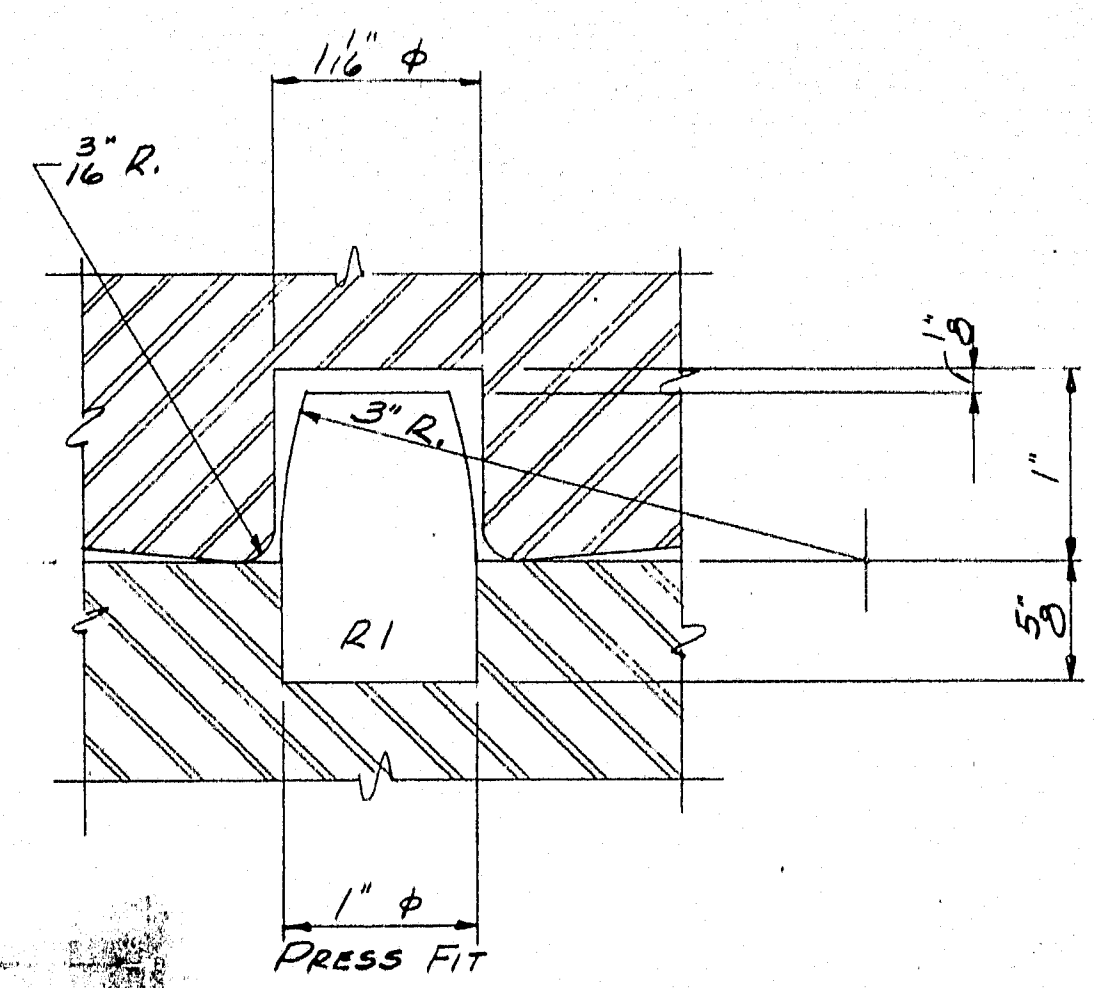
10-FP1



15-FP2



5-FP3



70-AB1

PAINT NOTES
 NO PAINT ON ANCHOR BOLTS - OIL THREADS. NO PAINT ON TOP SURFACE & 4" DOWN FROM TOP ON SIDES OF SOLE PLATES. COAT WITH BOILED LINSSEED OIL. ONE COAT SHOP PAINT ON SURFACES FINISHED ASA 250. NO PAINT ON SURFACES FINISHED ASA 125, COAT WITH HOT MIXTURE OF WHITE LEAD & TALLOW.

PINTLE DETAIL

SHIP		BILL OF MATERIAL			DWG. 365-192-51	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
EPC-2	10		PEDESTAL			
EPC-5	15		Do			
FPC-3	5		Do			
P1	10		R-6x2	0 8		MACHINED & FINISHED A36
P2	10		R-7x2	1 0		Do Do
	10	P3	R-7 1/2 x 2	0 11		Do Do
P4	10		R-8x1 1/2	1 8		FINISHED
	40	P5	R-2x1	0 54		
	60	P6	R-1 1/2 x 3	0 4		
P7	20		R-8x2	0 9		MACHINED & FINISHED
P8	15		R-9x2	1 4		Do Do
	15	P9	R-9 1/2 x 2	1 3		Do Do
P10	15		R-10x2	2 0		FINISHED
	60	P11	R-3x1	0 74		
P12	5		R-10x1 1/2	2 0		FINISHED
	5	P13	R-7 1/2 x 2	1 6		
	20	P14	R-3 1/2 x 1	0 52		
	50	R1	ROD-1" x	0 1/2		MACHINED
FP1	10		8x8	1 8		FABCO PAD SA47
FP2	15		10x8	2 0		Do Do Do
FP3	5		Do	2 0		Do Do Do
AB1	70		ROD-1" x	1 3		SWEDGED A-36
	140		1" x HEX NUT			
	70		1" x STD. WASHER			

REQ. 3805

WELD WITH LH-ET020 OR LH-ET013 OR SAW-1 & PRE-SHOP CONNECTIONS: HEAT 1" TO 2" THK. MAX TO 50°F.
 FIELD CONNECTIONS: BOLT & WELD
 HOLES: 1/8" x
 PAINT: STATE OF MAINE SPEC'S. & SEE PAINT NOTE THIS DRAW'G.
 APP'D. AS NOTED 8-30-65 PROJ. NO. 1-95-9 (30)

PEDESTALS	
PRINT ISSUE	
Bancroft & Martin Inc. Brewer, Maine	
RTE. 157 OVER I-95 MEDWAY, MAINE	
CUSTOMER CALLAHAN BROS., INC.	
DESIGNER M.S.H.C., BRIDGE DIVISION	
ORDER VERBAL DWG. 365-192-51	

