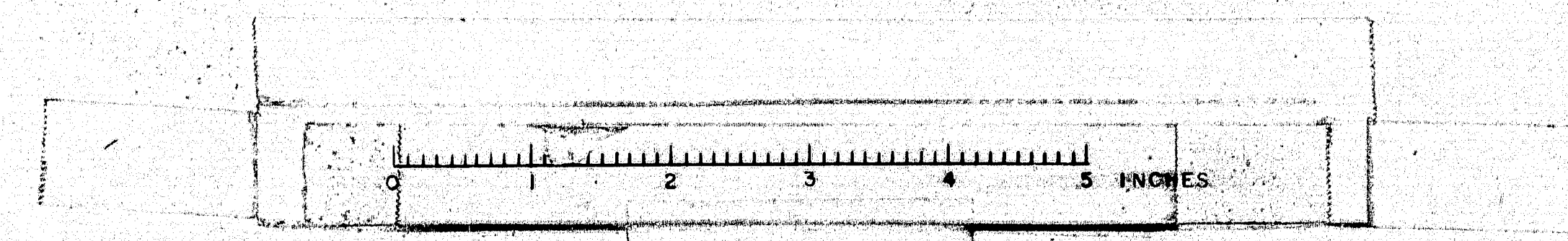
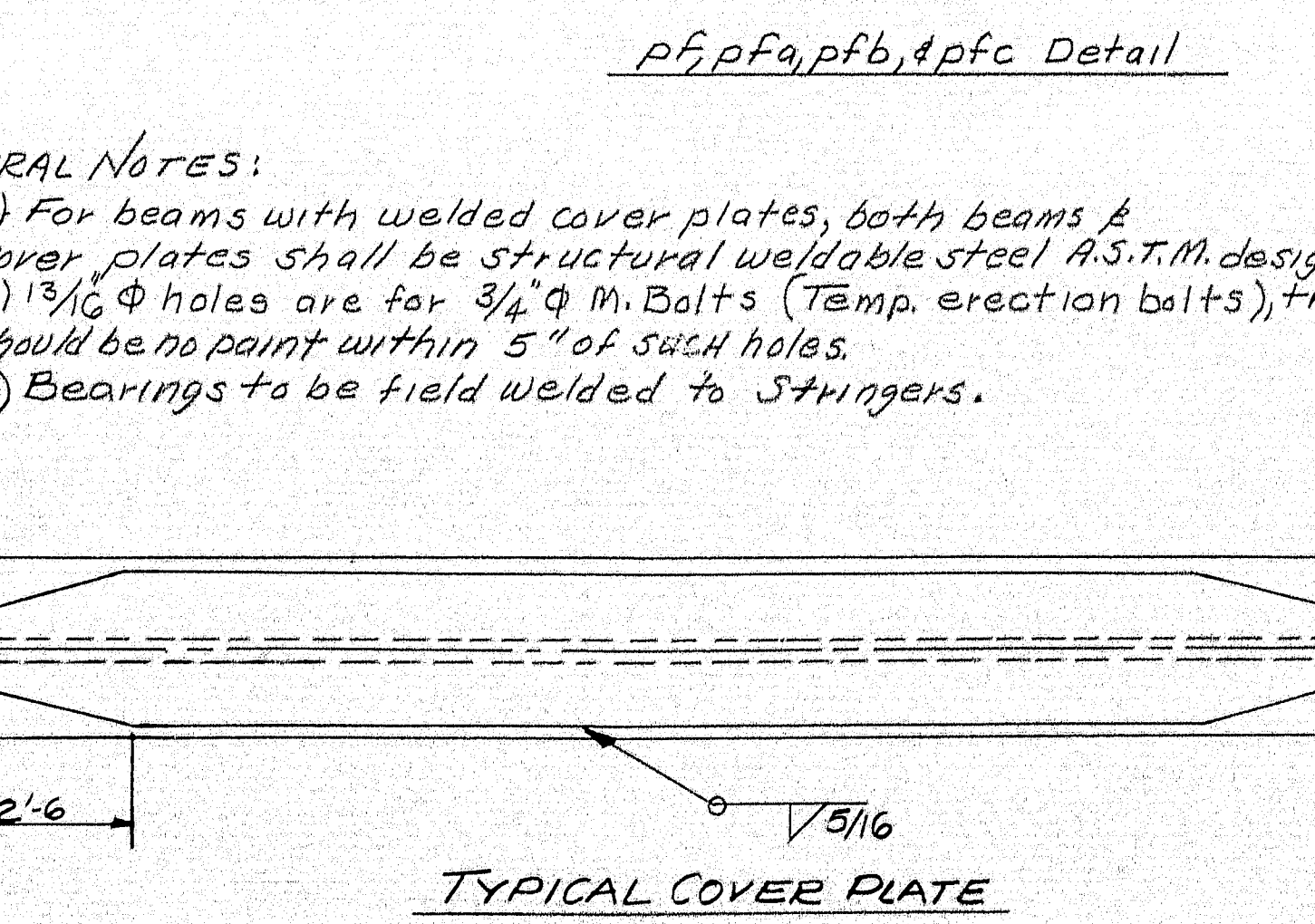
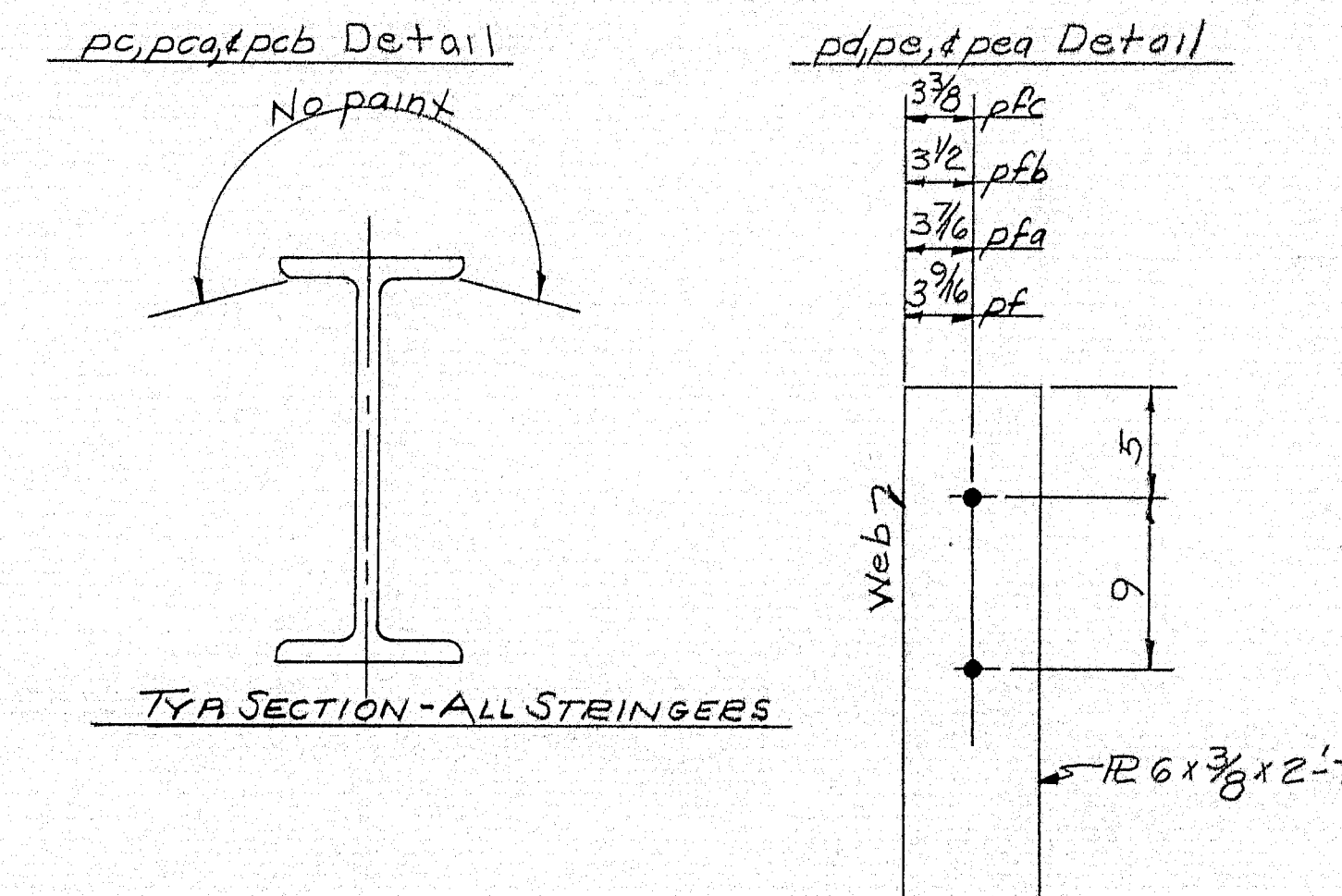
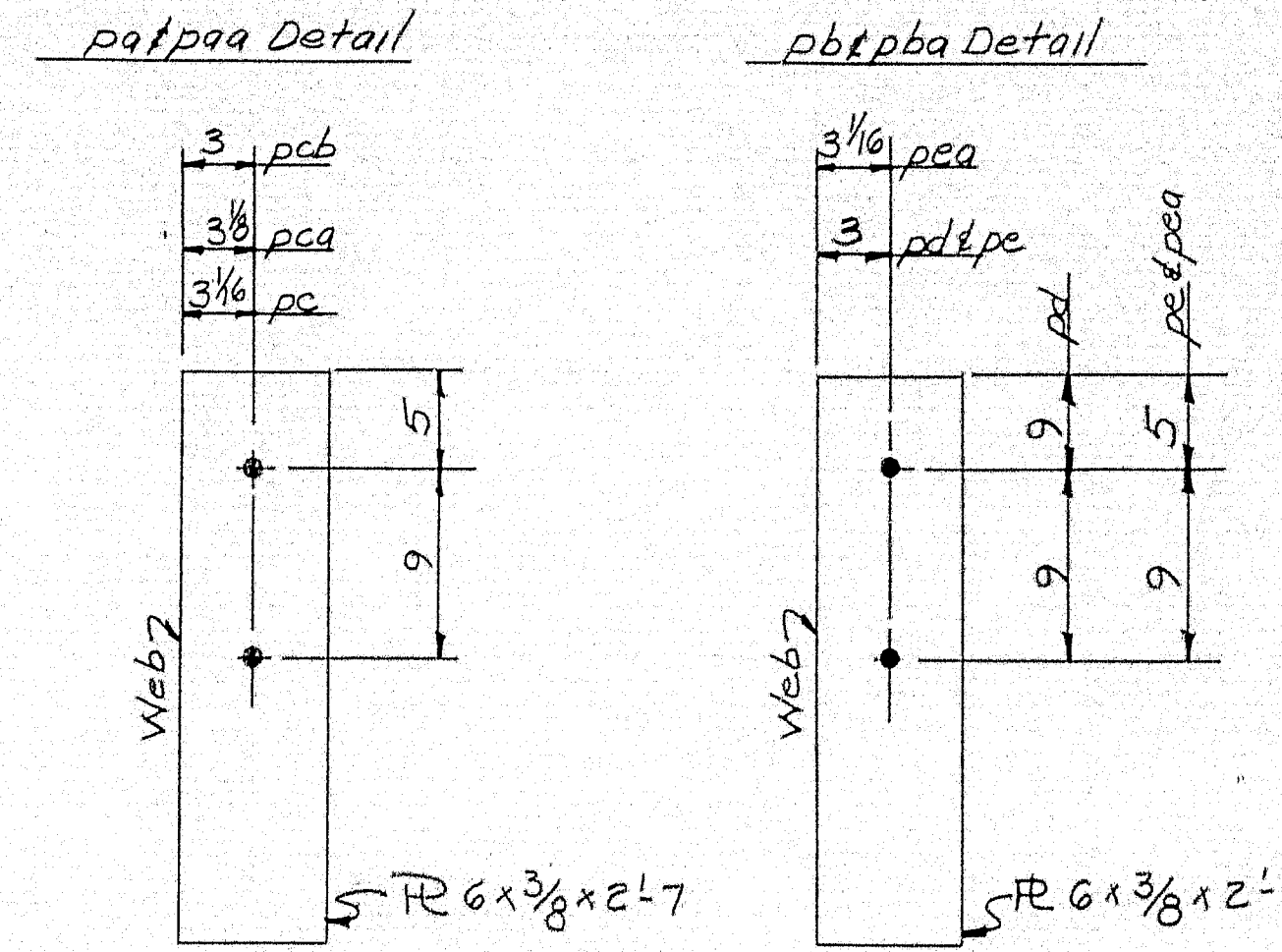
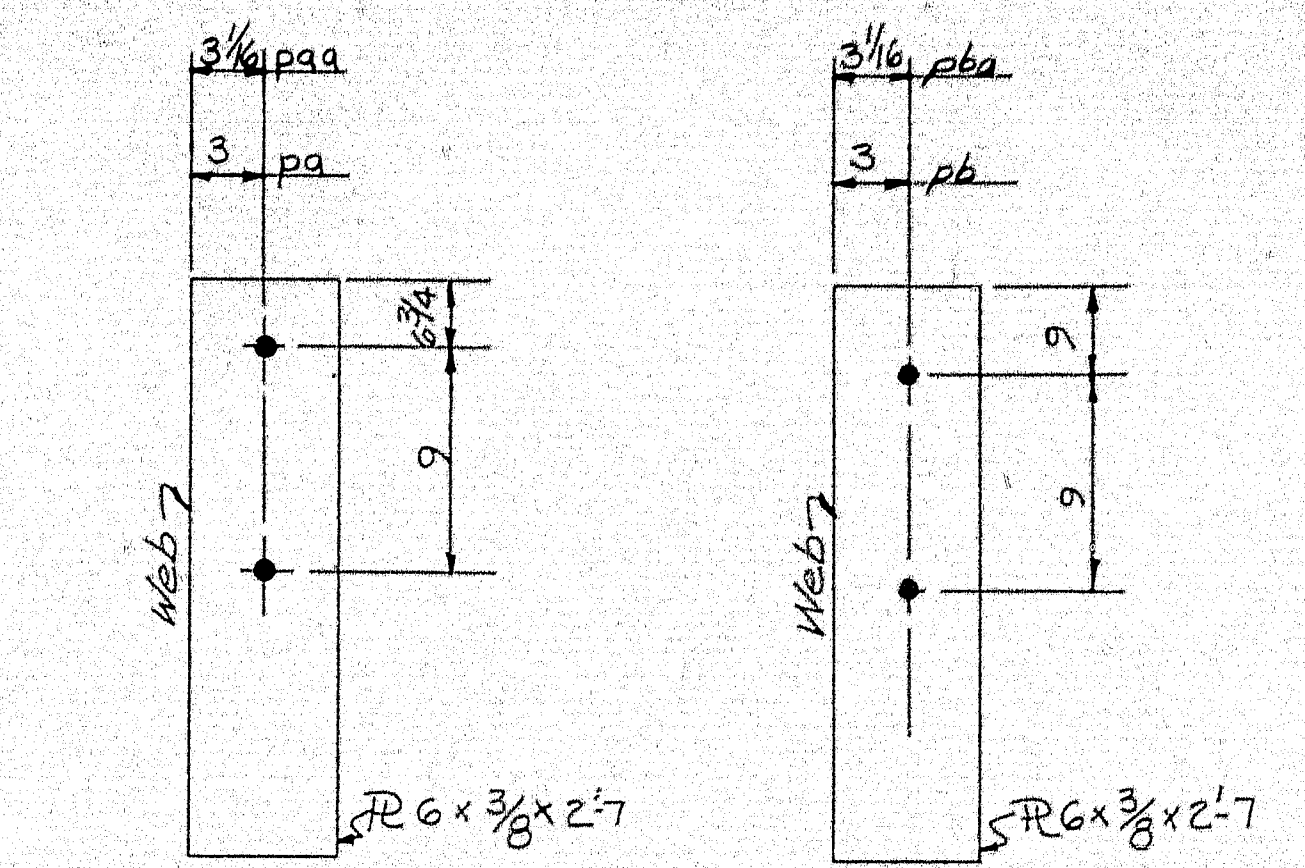
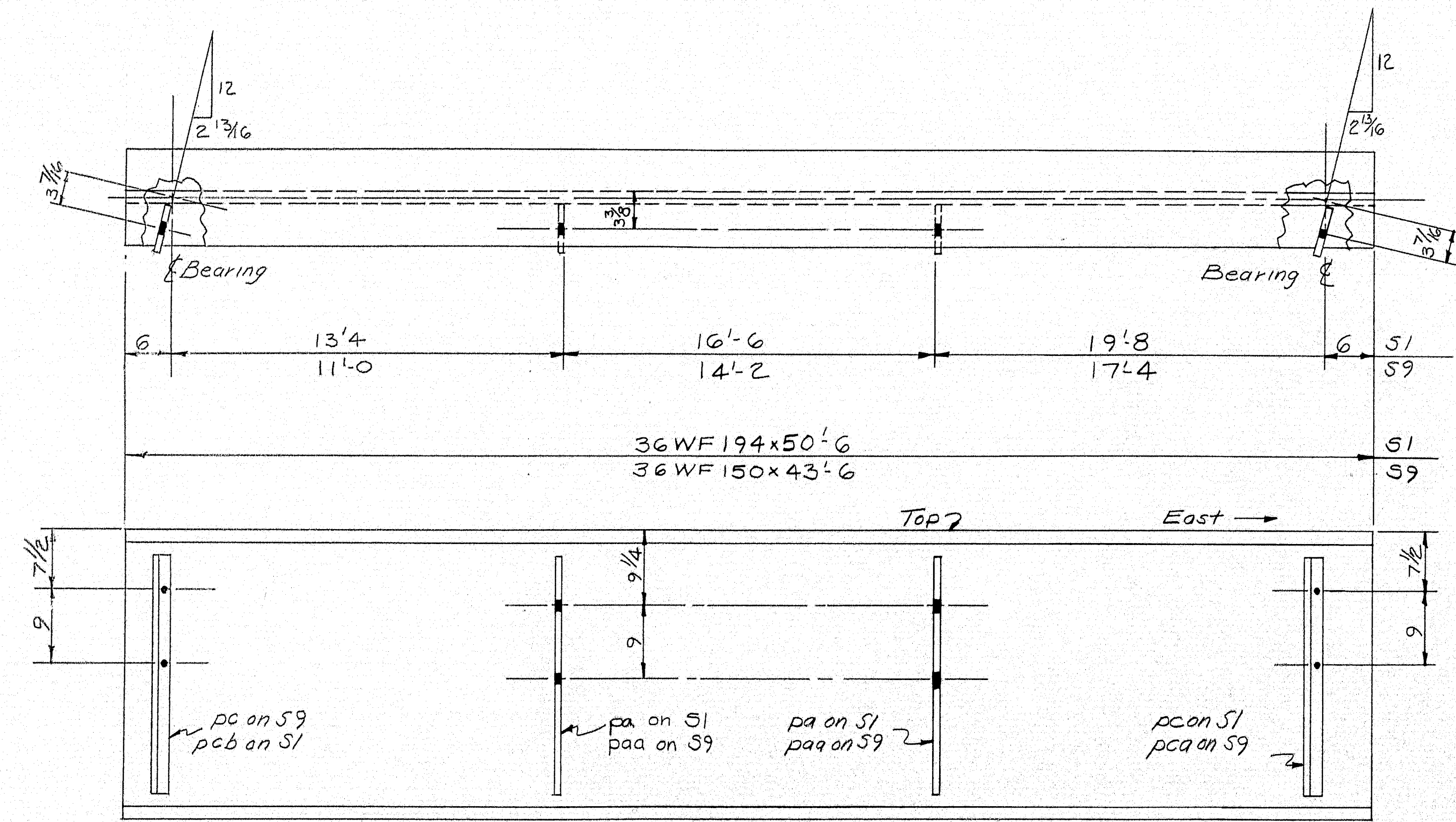
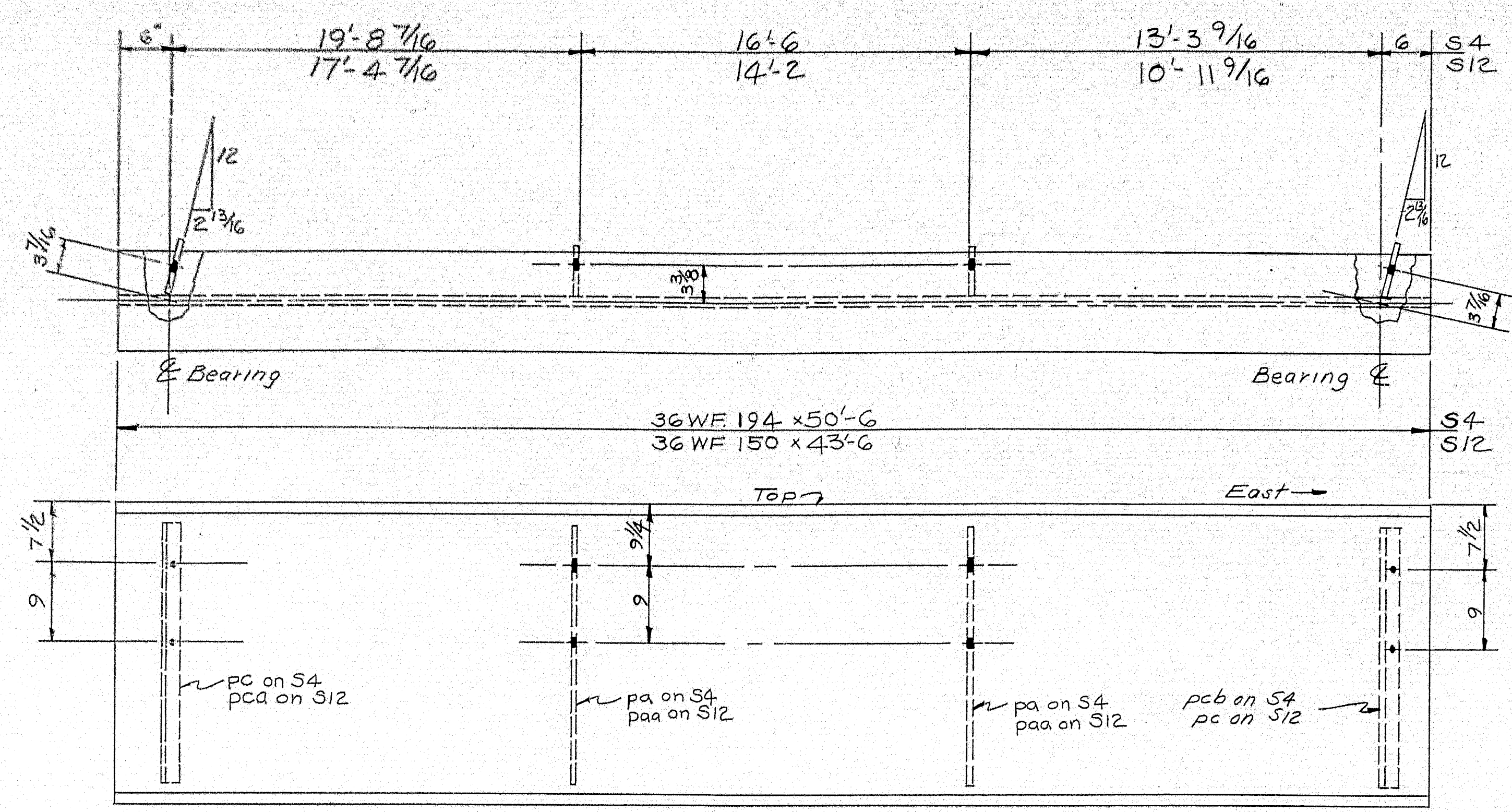


NOTES:

ERECTOR DIAGRAM	
Bancroft & Martin, Portland, Maine	
South Portland, Maine	
LYONS ROAD BRIDGE	
SIDNEY, MAINE	
CUSTOMER: CLANCHETTE BROTHERS	
DESIGNER: MAINE S.H.C. BRIDGE DIV.	
ORDER NO. 3877	DWG. NO. 8-311-E1

72-148





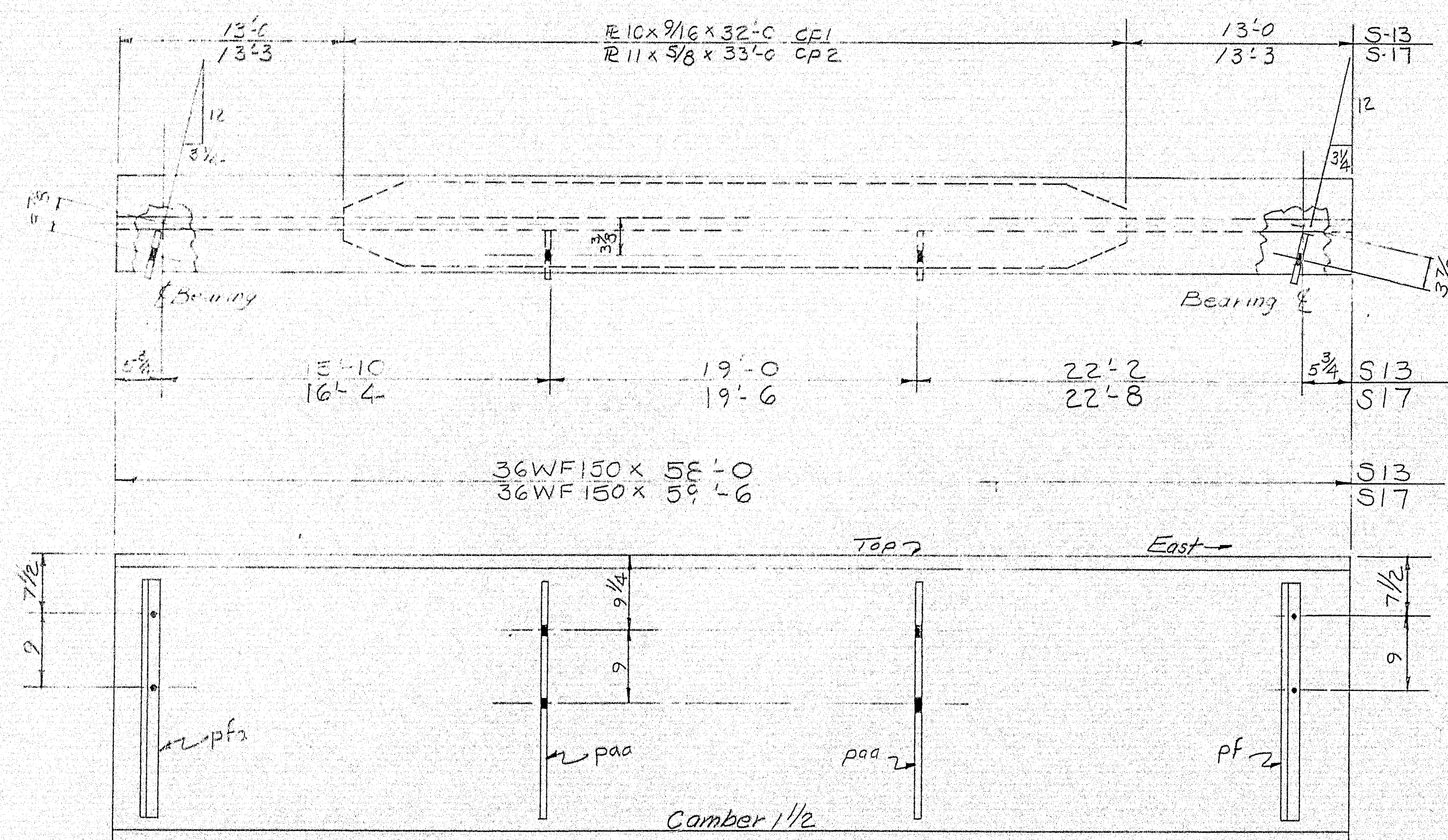
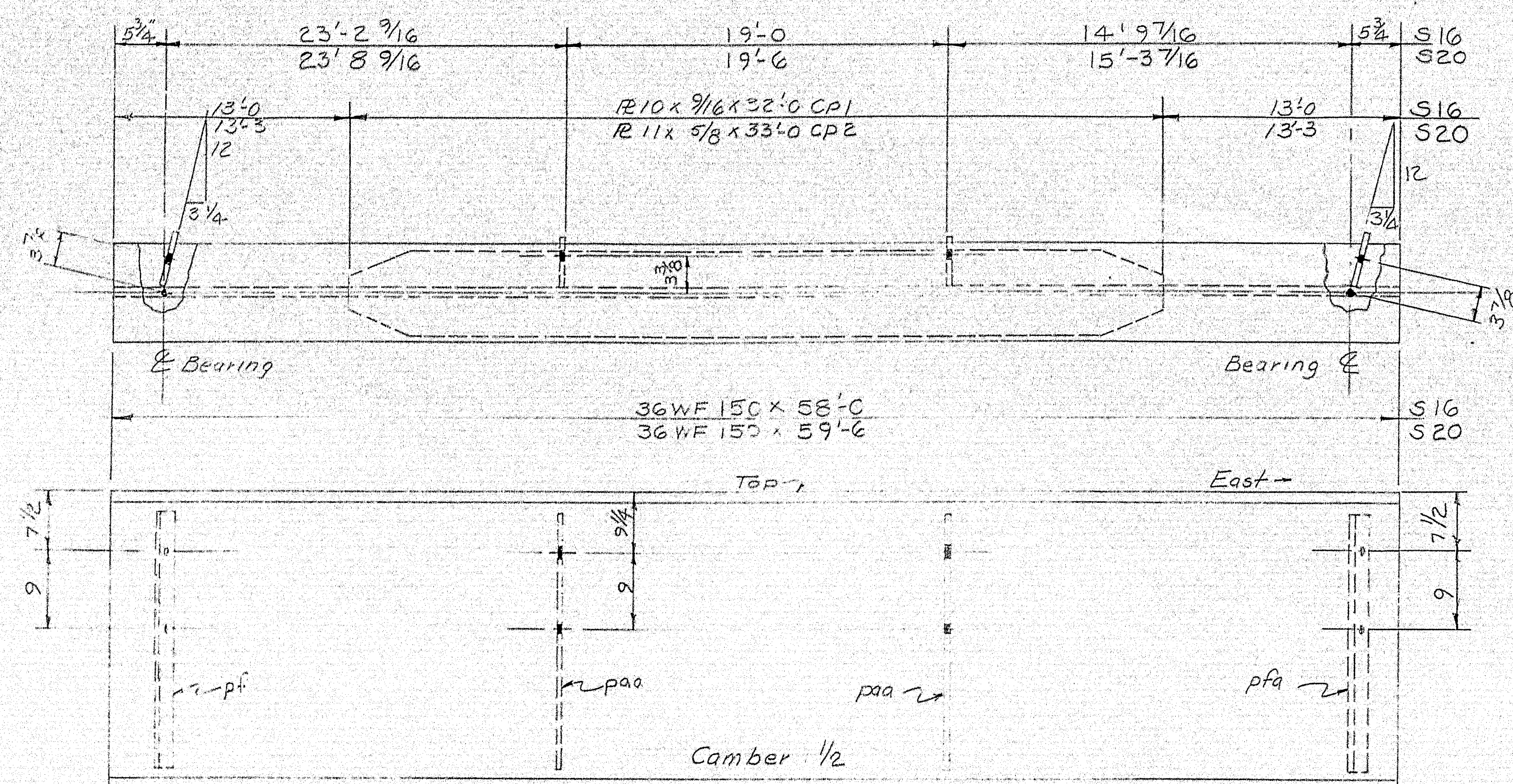
GENERAL NOTES:
 1) For beams with welded cover plates, both beams & cover plates shall be structural weldable steel A.S.T.M. designation A-373
 2) 13/16" holes are for 3/4" M. Bolts (Temp. erection bolts), there should be no paint within 5" of such holes.
 3) Bearings to be field welded to stringers.

SHIP		BILL OF MATERIAL				DWG. NO. 8-311-52	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DEDUCT	REMARKS
S1	1		36WF194	50	6		
S2	1		36WF220	50	6		
S3	1		do	50	6		
S4	1		36WF194	50	6		
S5	1		36WF150	59	6		ASTM-A373
S6	1		do	59	6		A373
S7	1		do	59	6		A373
S8	1		do	59	6		A373
S9	1		do	43	6		
S10	1		36WF170	43	6		
S11	1		do	43	6		
S12	1		36WF150	43	6		
S13	1		do	58	0		A373
S14	1		do	58	0		A373
S15	1		do	58	0		A373
S16	1		do	58	0		A373
S17	1		do	59	6		A373
S18	1		do	59	6		A373
S19	1		do	59	6		A373
S20	1		do	59	6		A373
S21	1		do	44	0		
S22	1		36WF170	44	0		
S23	1		do	44	0		
S24	1		36WF150	44	0		
	4	pa	RGx3/8	2	7		
	16	pb	do	2	7		
	14	pc	do	2	7		
	2	CD1	RGx3/8	32	0	57	A373
	4	CP2	RGx3/8	33	0	149	A373
	4	CP3	RGx3/8	38	0	204	A373
	2	CP4	RGx3/8	37	0	97	A373
	8	pd	RGx3/8	2	3		
	4	pe	do	2	3		
	14	pf	RGx3/8	2	7		
All Steel ASTM Designation A-7 Unless Noted							
	1591	1/16"	Cont. Weld				166 #/in ft.
	20	paa	RGx3/8	2	7		
	24	pba	do	2	7		
	8	pca	do	2	7		
	6	pcb	do	2	7		
	14	pfa	do	2	7		
	4	pfb	do	2	7		
	4	pfc	do	2	7		
	4	pea	do	2	3		

SHOP CONNECTIONS: Welded 3/16 fillet
 FIELD CONNECTIONS: Welded & Bolted
 HOLES: 13/16" Φ
 PAINT: Per State of Maine Specs & as noted.

STEINER DETAILS
 Brainerd & Martin Holdings, Inc.
 South Portland, Maine
 LYONS ROAD BRIDGE
 SIDNEY, MAINE
 CUSTOMER: LANCHETTE BROTHERS
 DESIGNER: MAINE S.H.C. BRIDGE DIV.
 ORDER NO. 3877 DWG. NO. 8-311-52

DRAWN	9-8-58	FBM
REVISION		
REVISION		
REVISION		



NOTE:
See Dwg. B-311-52 for typical details,
Bill of Mat'l, & General notes.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded & Bolted
HOLES: 1/4" & 1/2"
PAINT: 1/2" Rate of Marine Spec. 405
405

[illegible]

STRINGER DETAILS

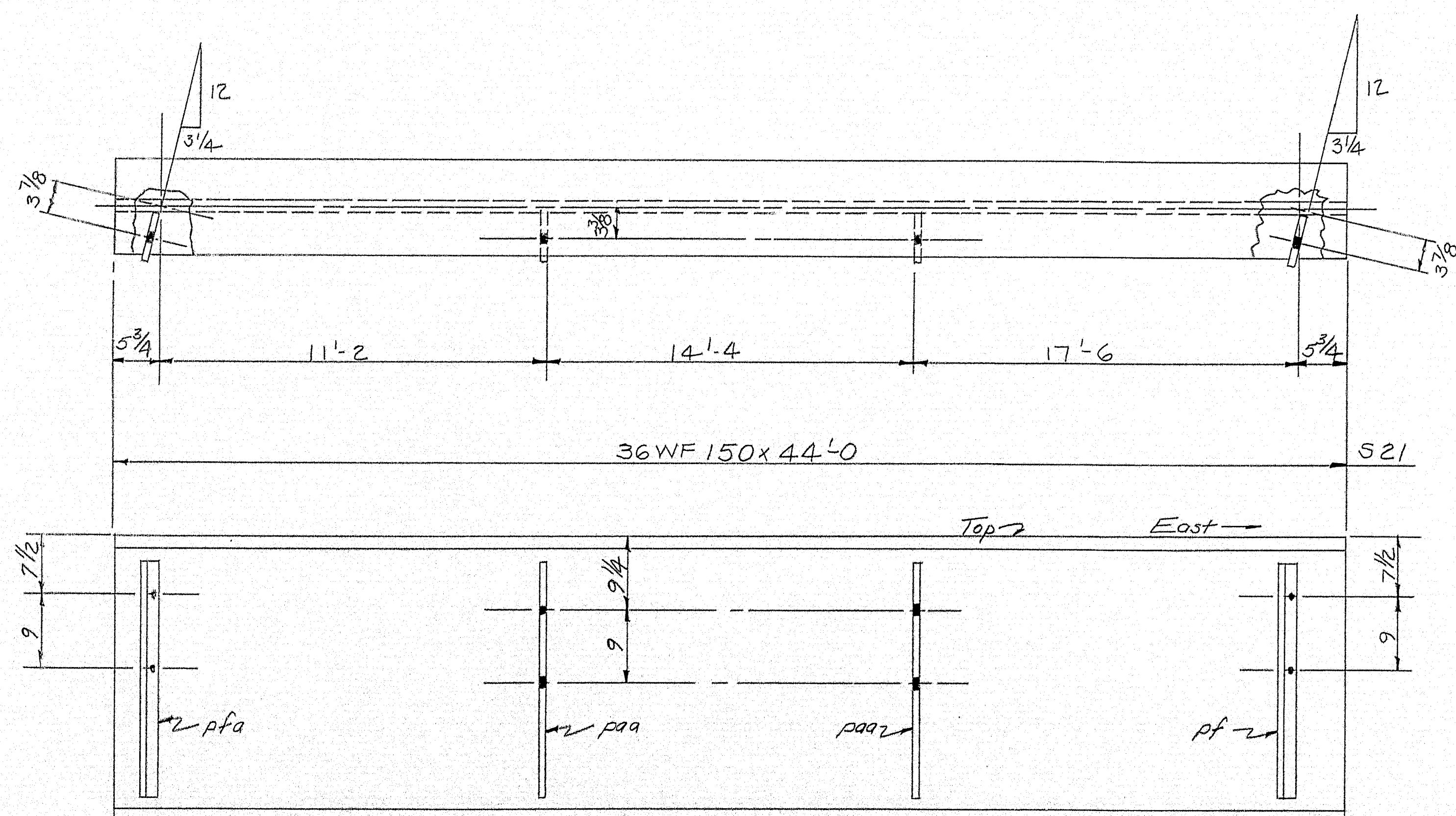
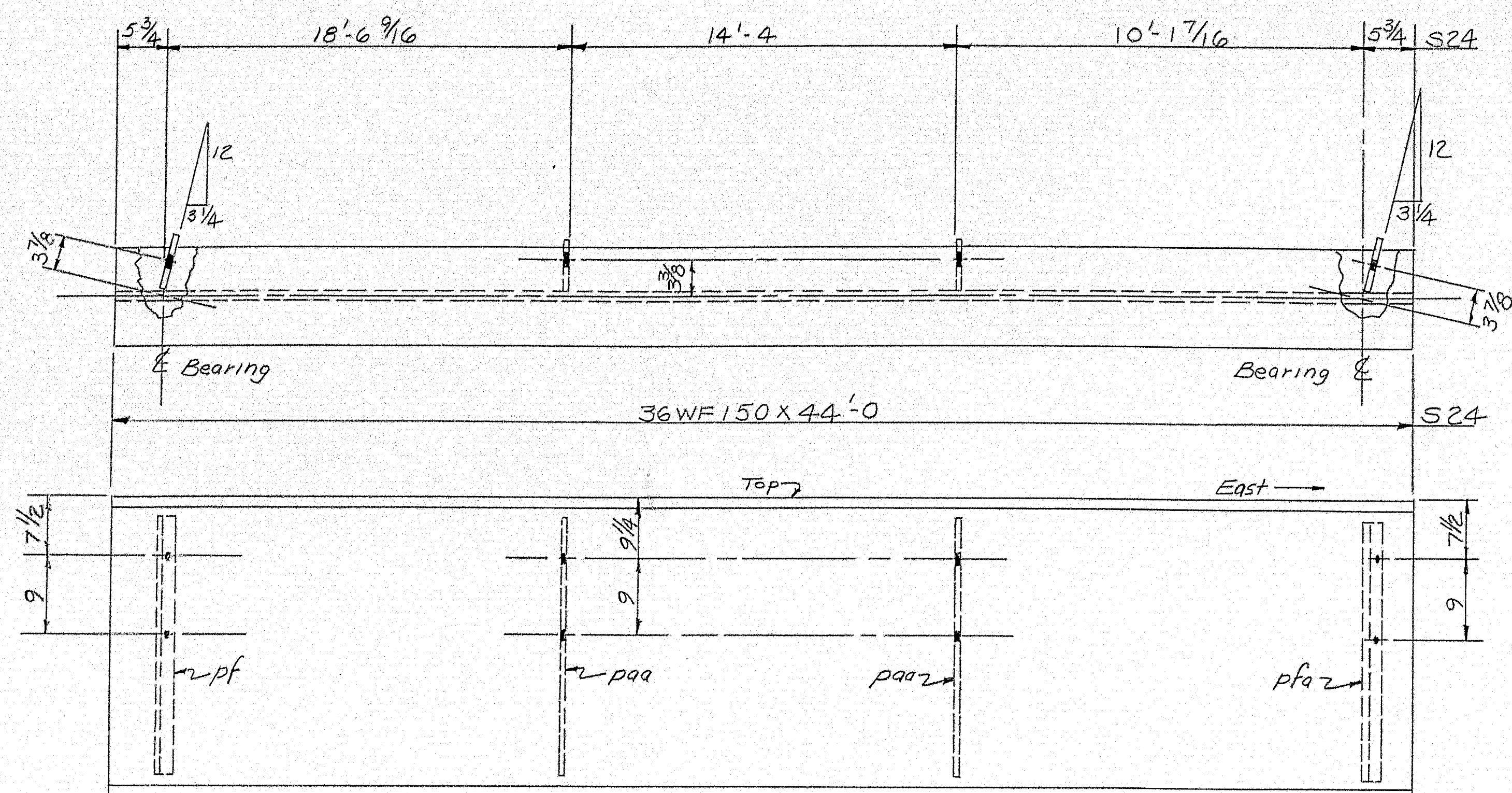
Bancroft & Martin Rollings Mills Company
South Portland 7, Maine

LYONS ROAD BRIDGE
SIDNEY, MAINE

CUSTOMER ANCHETTE BROTHERS
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. <u>3317</u>	DWG. NO. <u>3-3/1-53</u>
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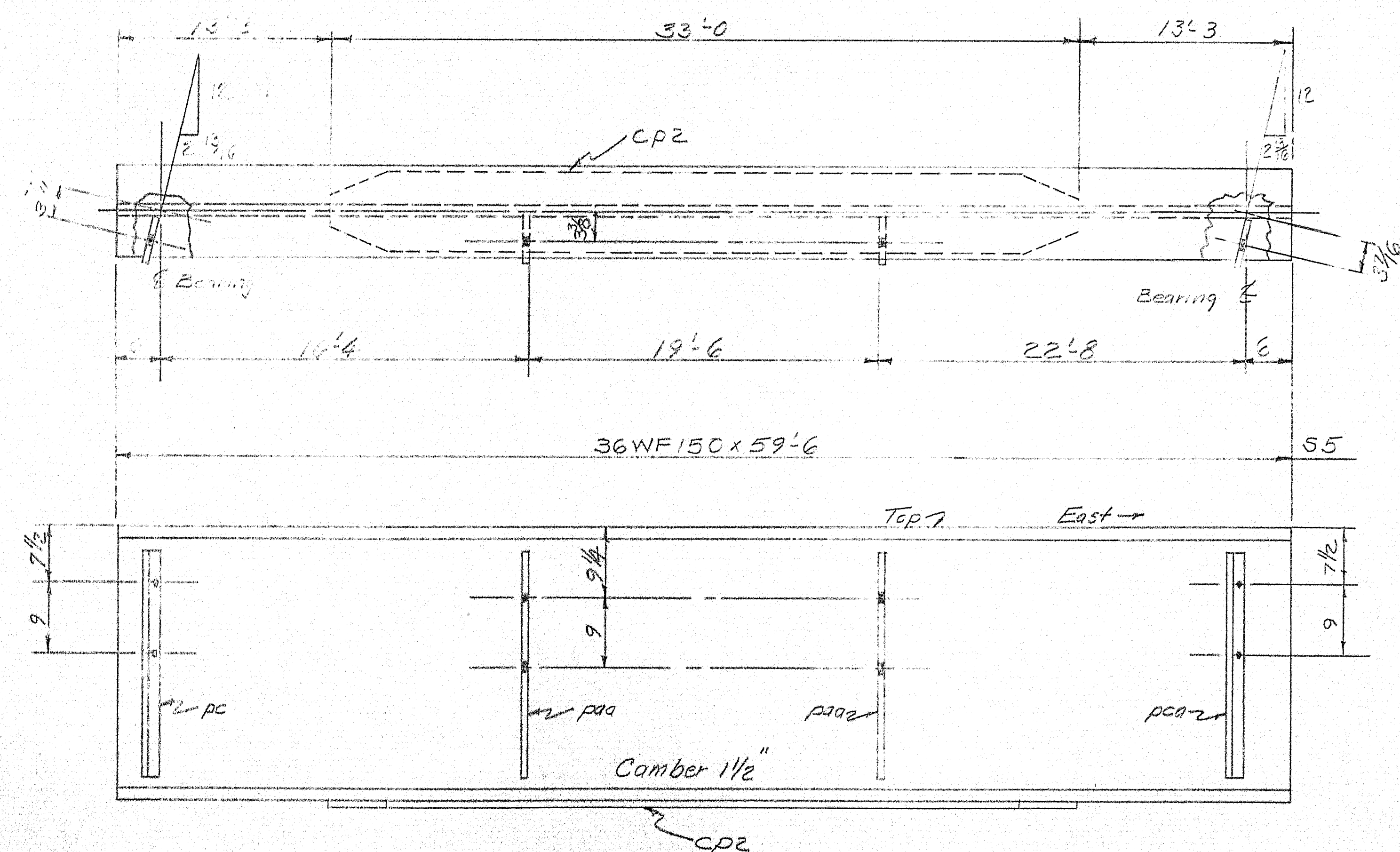
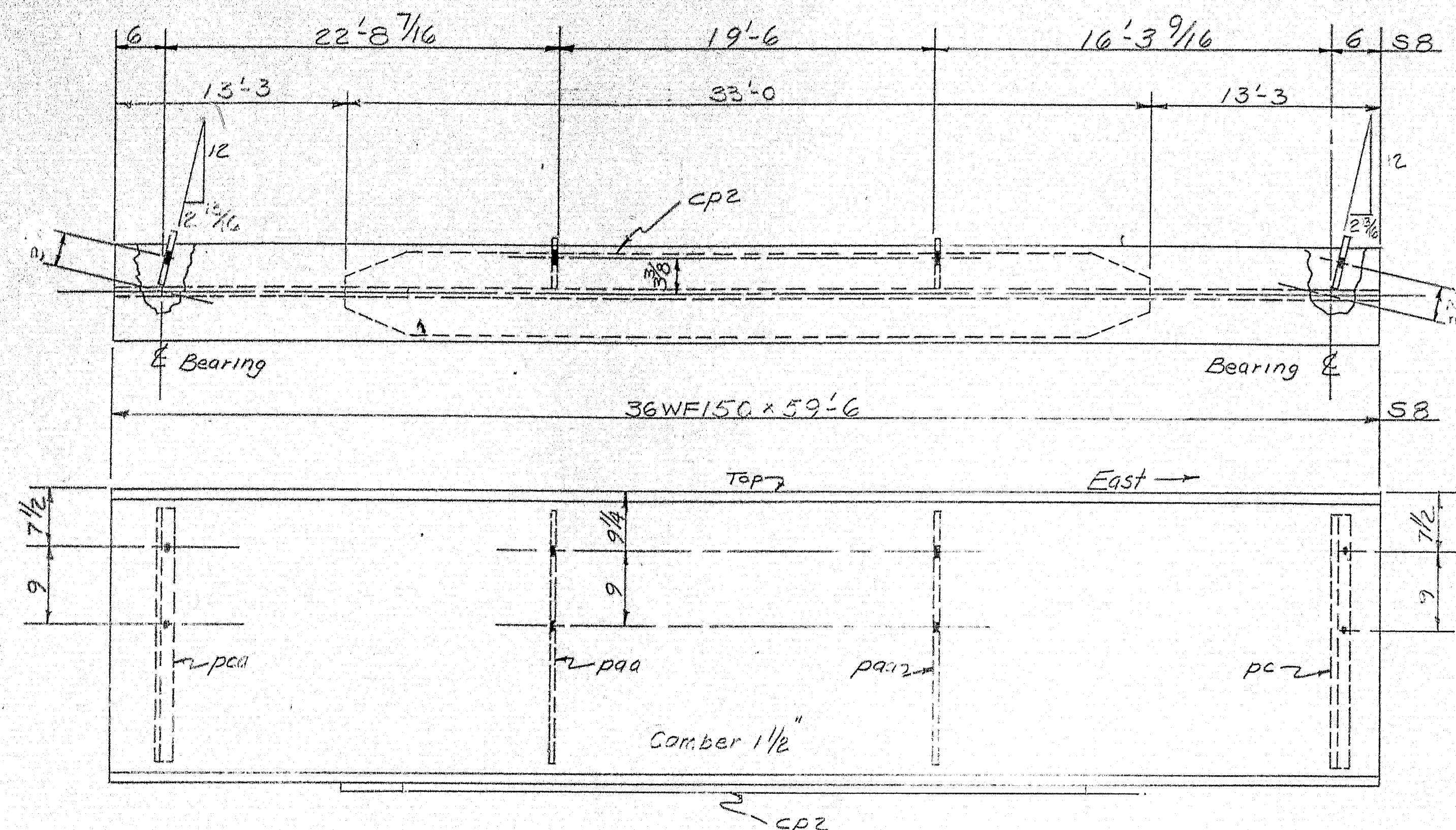
DRAWN	98-58	FGM
REVISION		
REVISION		
REVISION		



NOTES: See Dwg. 8-311-52 for typical details, Bill of Matl., & General notes.

DRAWN	7-9-58	REM	CUSTOMER	LANCHETTE BROTHERS
REVISION			DESIGNER	MAINE S.H.C. BRIDGE DIV
REVISION			ORDER NO.	3977
REVISION			DWG. NO.	3311-54

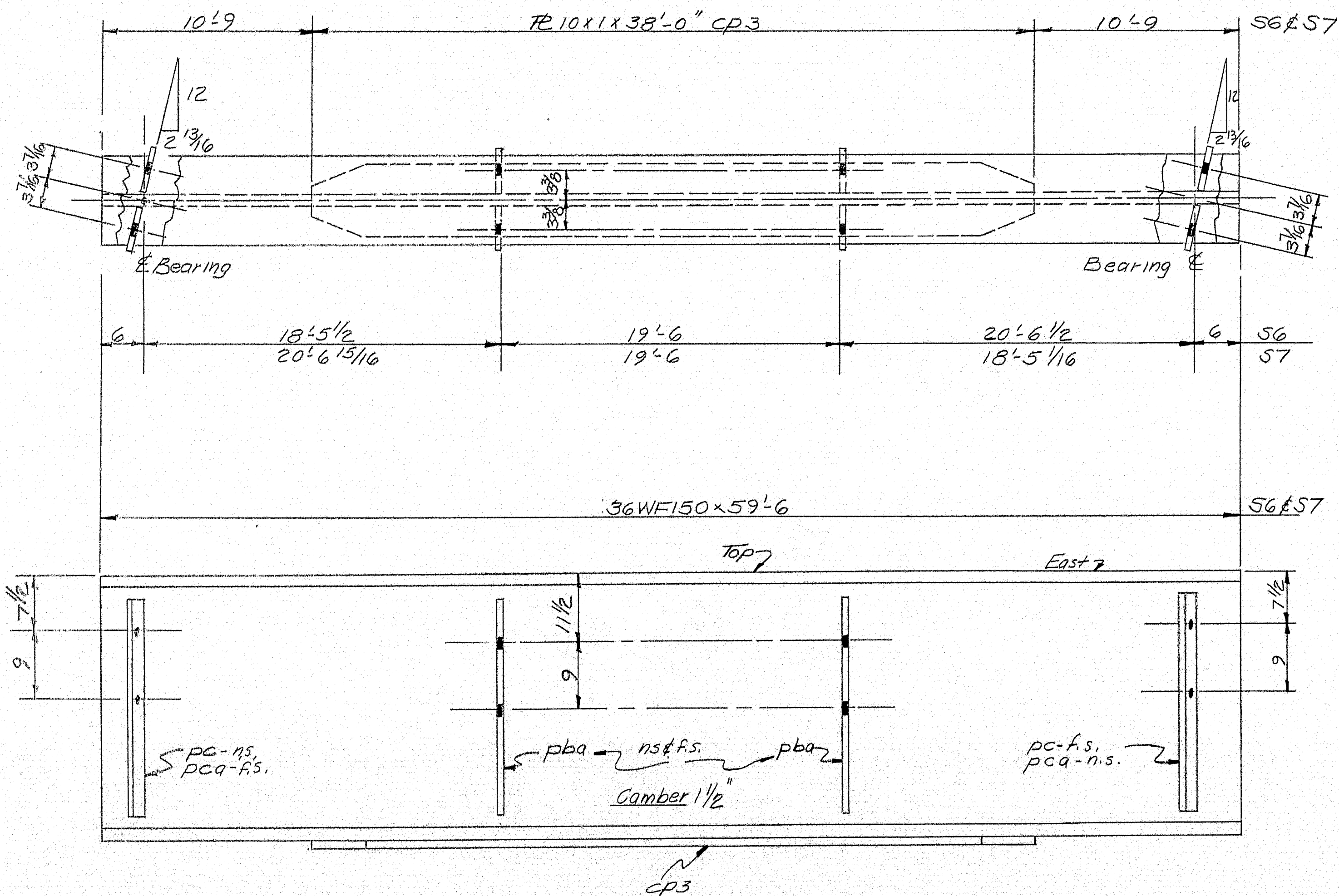
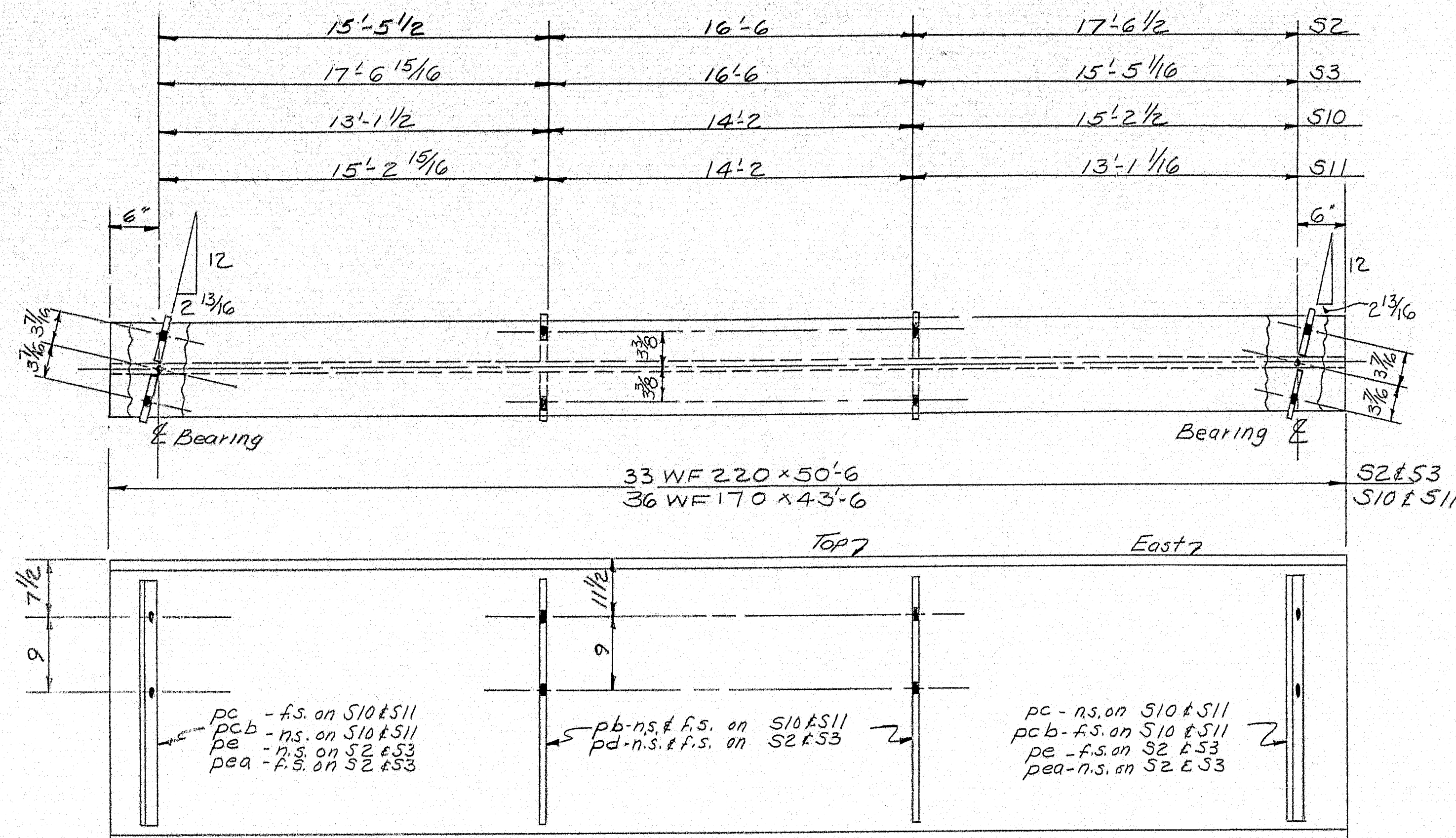
DRAWN	7-9-58	REM	CUSTOMER	LANCHETTE BROTHERS
REVISION			DESIGNER	MAINE S.H.C. BRIDGE DIV
REVISION			ORDER NO.	3977
REVISION			DWG. NO.	3311-54



NOTES: See Dwg. B-311-52 for typical details, Bill of Materials, & General Notes.

DRAWN	ca - 8/3/62	CUSTOMER	CIANCHETTE BROTHERS
REVISION		DESIGNER	MAINE S.H.C. BRIDGE DIV.
REVISION		ORDER NO.	72-153
REVISION		DWG. NO.	B-311-55

STRINGER DETAILS
 Bancroft & Martin Rolling Mills Company
 South Portland, Maine
 LYONS ROAD BRIDGE
 SIDNEY, MAINE

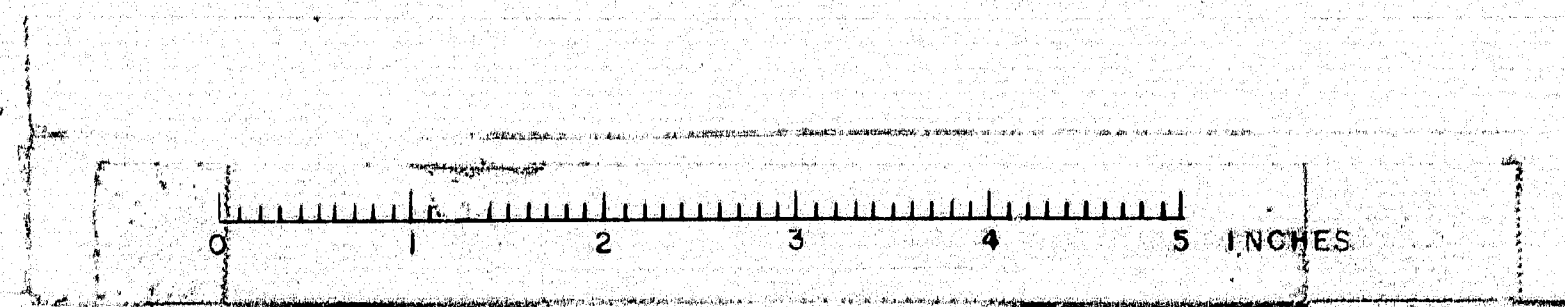


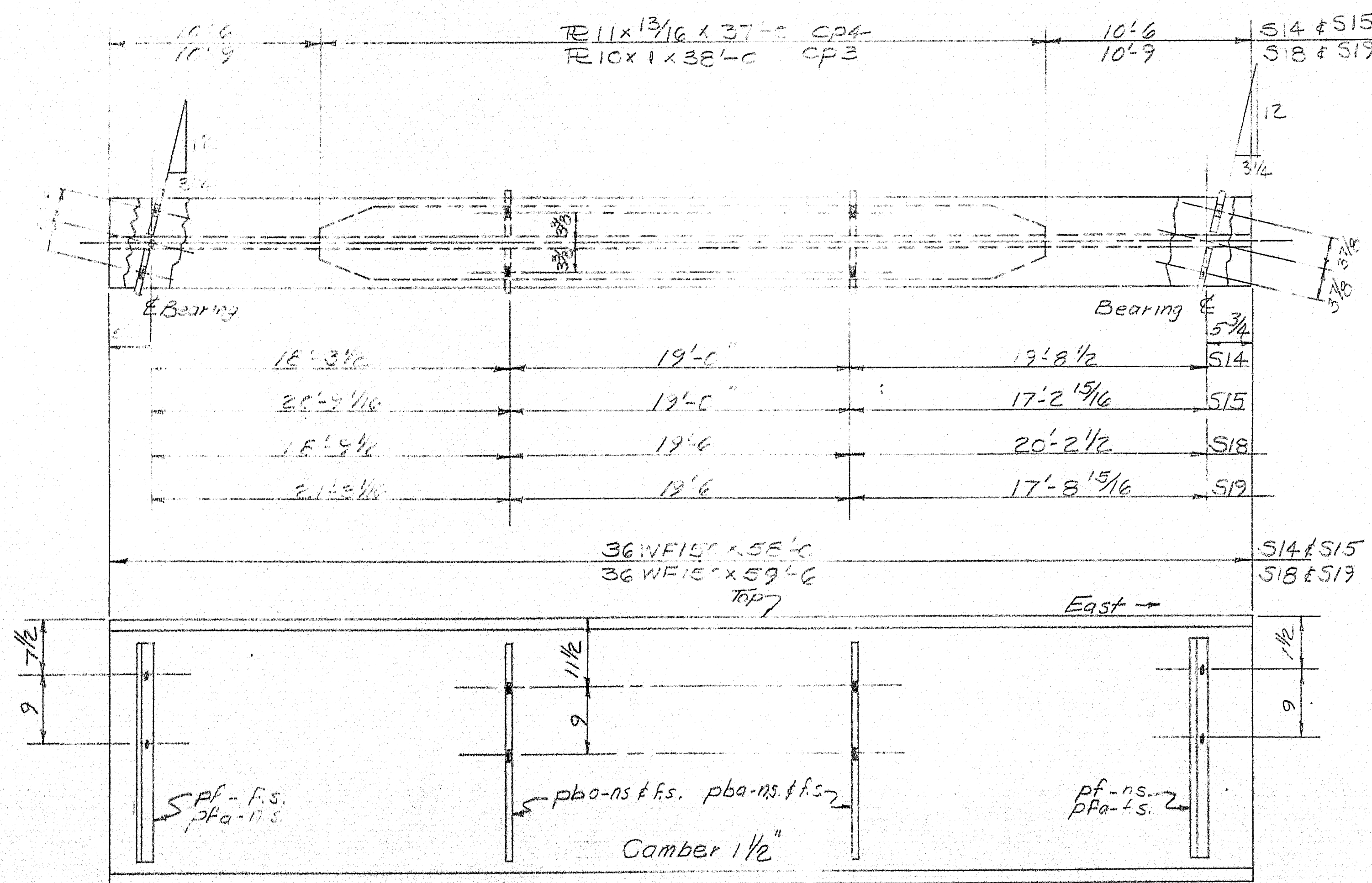
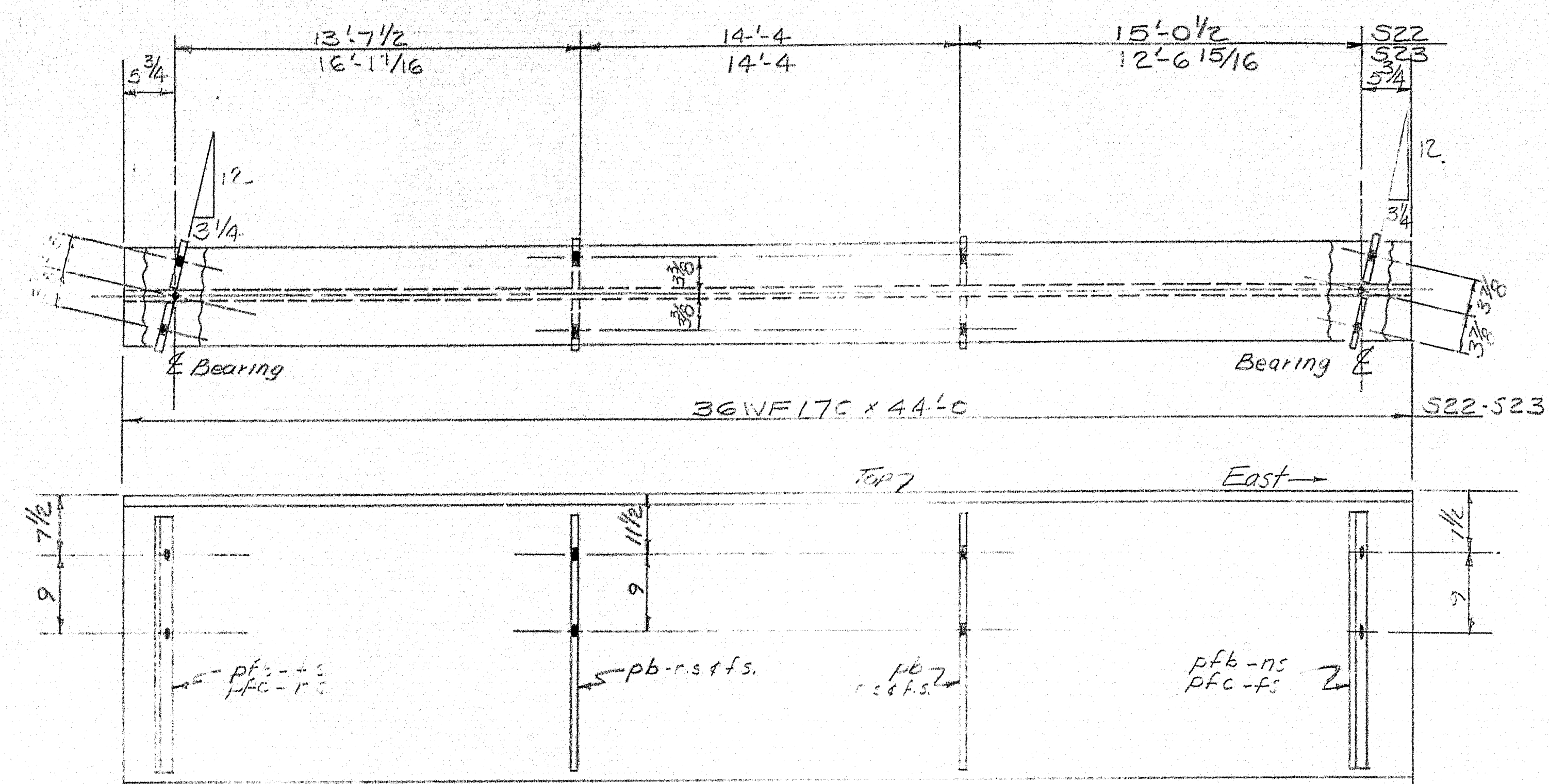
NOTES: See Dwg., 3-311-52 for typical details, Bill of materials, & general notes

STRINGER DETAILS	
Bancroft & Martin Rolling Mills Company	
South Portland, Maine	
LYONS ROAD BRIDGE	
SIDNEY, MAINE	
CUSTOMER CLANCHETTE BROTHERS	
DESIGNER MAINE S.H.C. BRIDGE DIV.	
ORDER NO. 3877	DWG. NO. 3-311-56

DRAWN	7-9-59	EBM
REVISION		
REVISION		
REVISION		

72-154

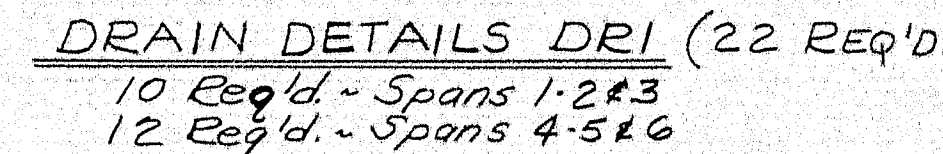




NOTES: See Lwg., 8311-52 for typical details, and math. & general notes

STRINGER DETAILS	
Bancroft & Martin Holdings, Mills Company	
South Portland, Maine	
LYONS ROAD BRIDGE	
SIDNEY, MAINE	
CUSTOMER CIANCHETTE BROTHERS	
DESIGNER MAINE S.H.C. BRIDGE DIV.	
ORDER NO.	DWG. NO. 8-311-57

72-155



SHOP CONNECTIONS:
FIELD CONNECTIONS: *Bolted & Welded*
HOLES: *1 3/16" Ø for 3/4" M. Bolts*
PAINT: *Per State of Maine Specs. &
as noted*

APPROVED	DIAPHRAGMS & DRAIN DETAILS
	<i>Bancroft & Martin Holdings Mills Company</i> <i>South Portland 7, Maine</i>
ORDER NO. 3377	DWG. NO. 8-311-58

DRAWN	9-12-58	BM	CUSTOMER	CLANCHETTE BROTHERS
REVISION			DESIGNER	MAINE S.H.C. BRIDGE DIV.
REVISION			ORDER NO.	3377
REVISION			DWG. NO.	8-311-58

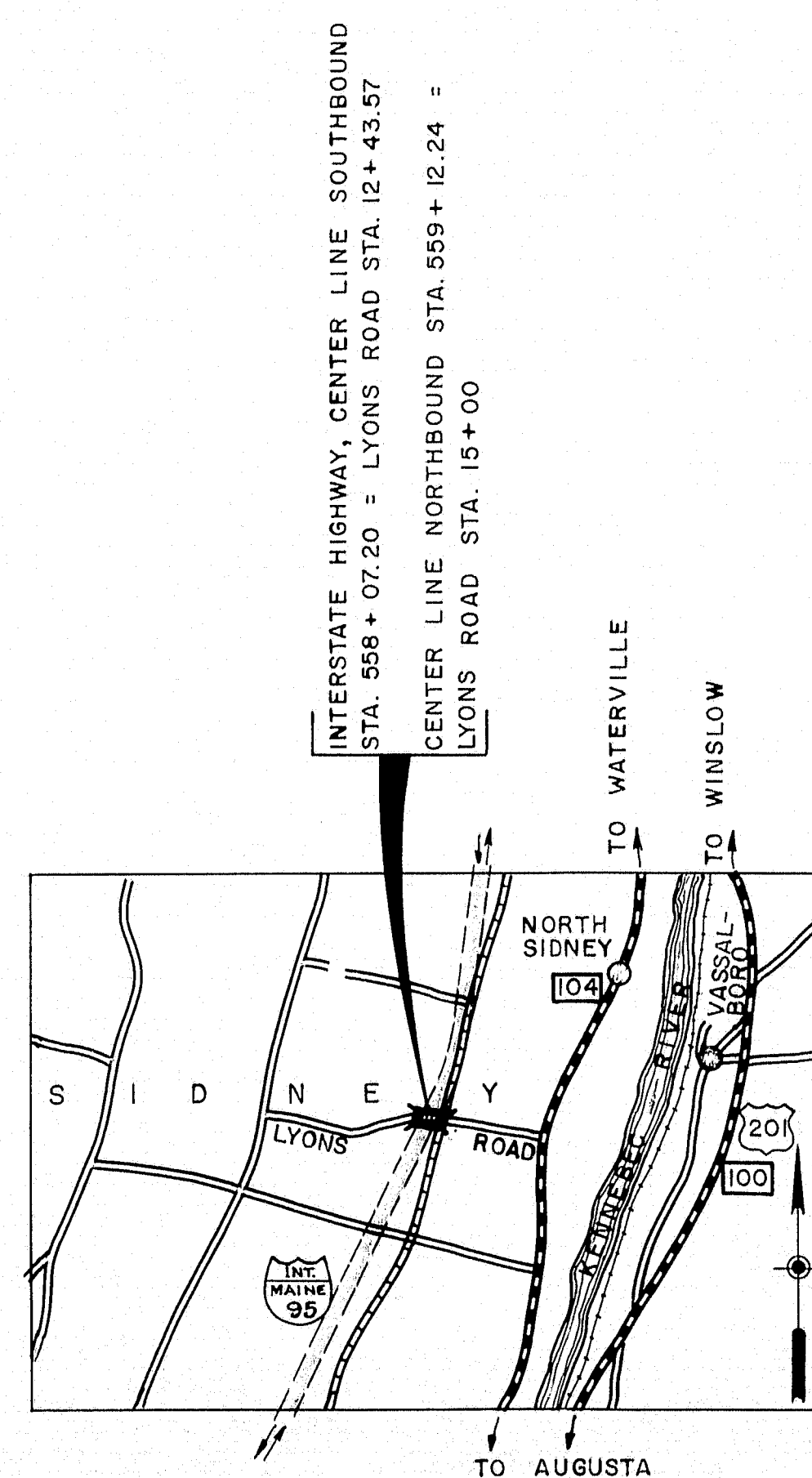
STATE OF MAINE
STATE HIGHWAY COMMISSION



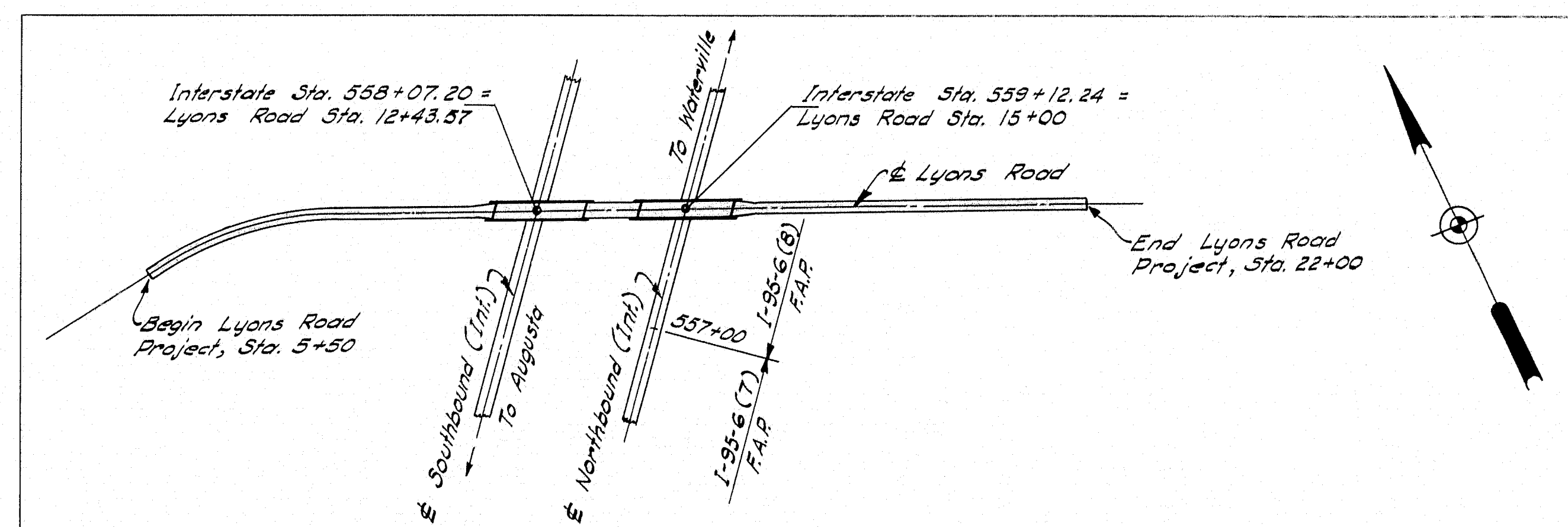
LYONS ROAD BRIDGE
OVER
INTERSTATE HIGHWAY
IN THE TOWN OF
SIDNEY
KENNEBEC COUNTY

FEDERAL AID PROJECT NO. I-95-6(13)114

B. P. R. REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6(13)114	1	22



LOCATION MAP
SCALE - 1 INCH = 1 MILE



LAYOUT PLAN
Scale: 1" = 200'

TRAFFIC

A. D. T. 1960	= 85
A. D. T. 1980	= 115
D. H. V.	= 17
T	= 15 %
D	= 50 %
V	= 45 m.p.h.

INDEX OF SHEETS

1	TITLE SHEET
2	GENERAL PLAN & ELEVATION
3	SOILS PROFILE
4	BORINGS
5-6	SURVEY
7-8-9-10	CROSS SECTIONS
11	ABUTMENTS NO. 1-2
12	ABUTMENTS NO. 3-4
13	PILE PLANS - ABUTMENTS
14	PIERS NO. 1-2
15	REINFORCING STEEL & PIERS NO. 3-4
16-17	STRUCTURAL STEEL & ERECTION DIAGRAM
18	SHEAR CONNECTORS & EXPANSION DAM DETAILS
19	SUPERSTRUCTURE SPANS 1-2-3
20	SUPERSTRUCTURE SPANS 4-5-6 & APPROACH SLABS
21	BLOCKING DIAGRAM
22-22A	STANDARD DETAILS

APPROVED:
MAINE STATE HIGHWAY COMMISSION

David H. Sturtevant CHAIRMAN

Robert L. Williams

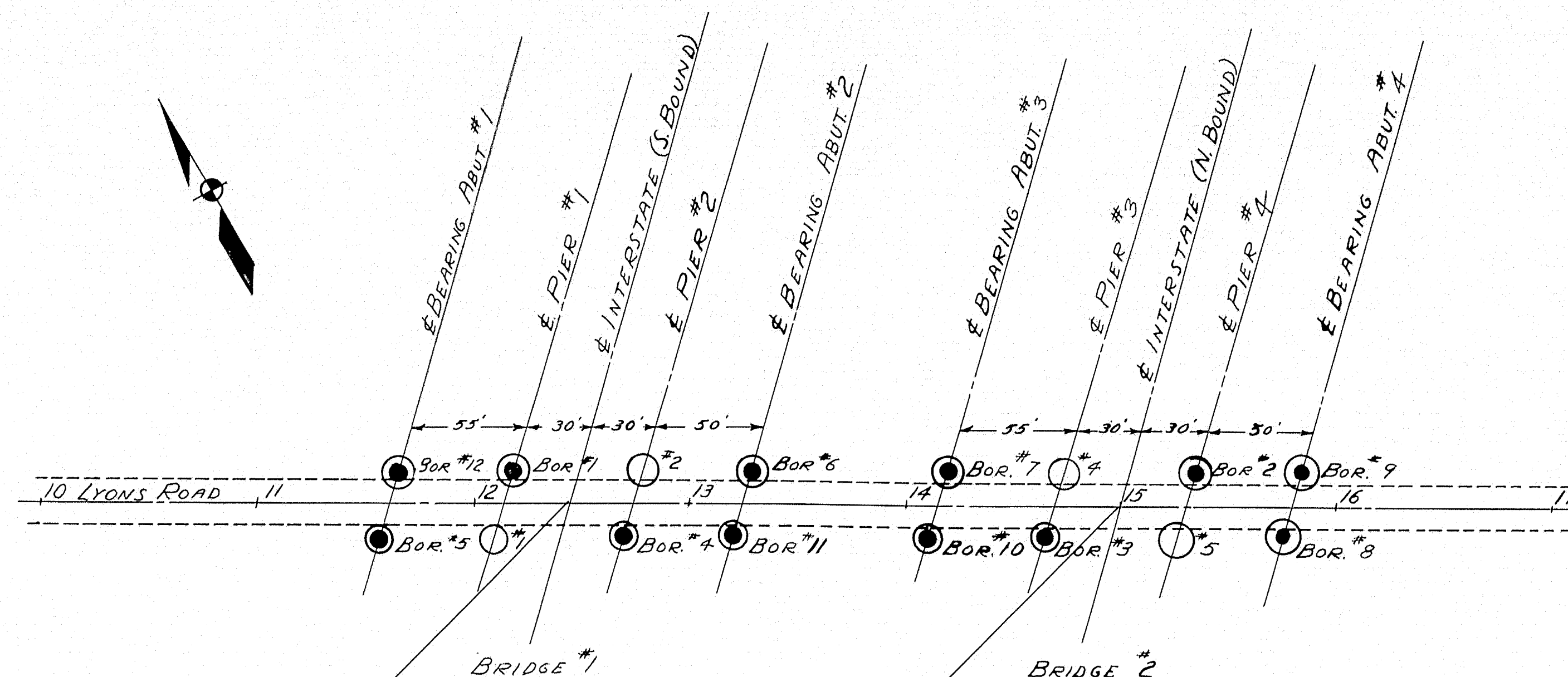
Charles W. Duggan CHIEF ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION I

APPROVED:

DIVISION ENGINEER DATE

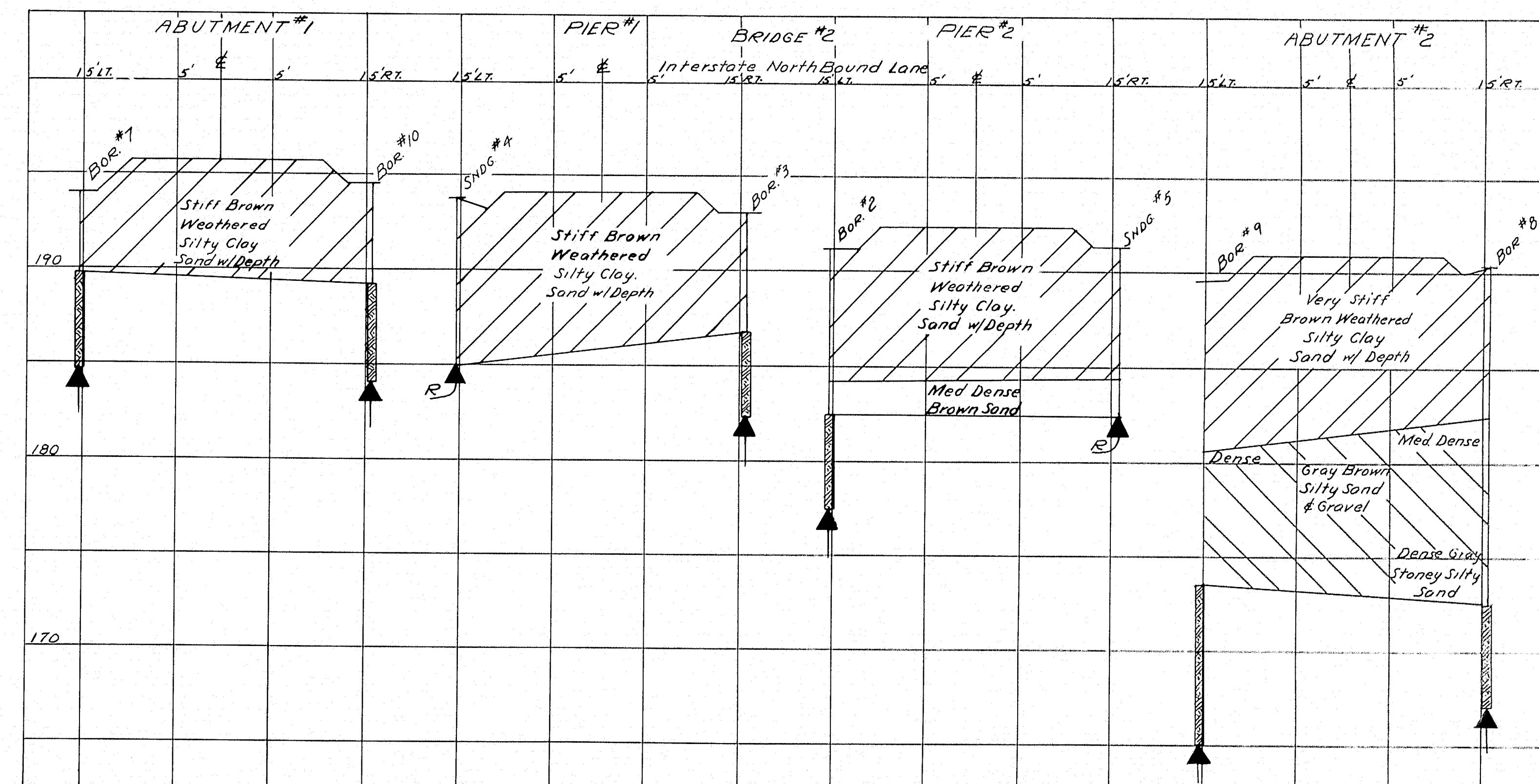
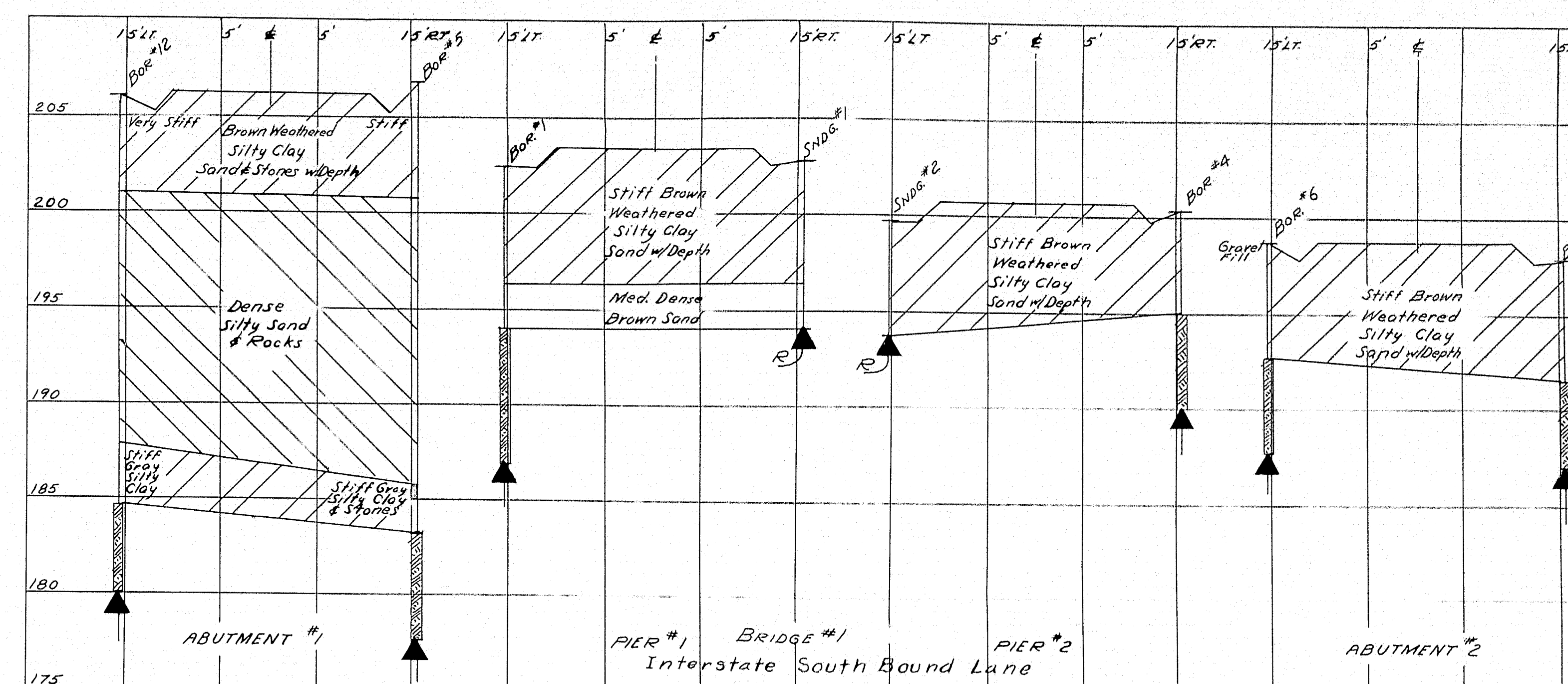
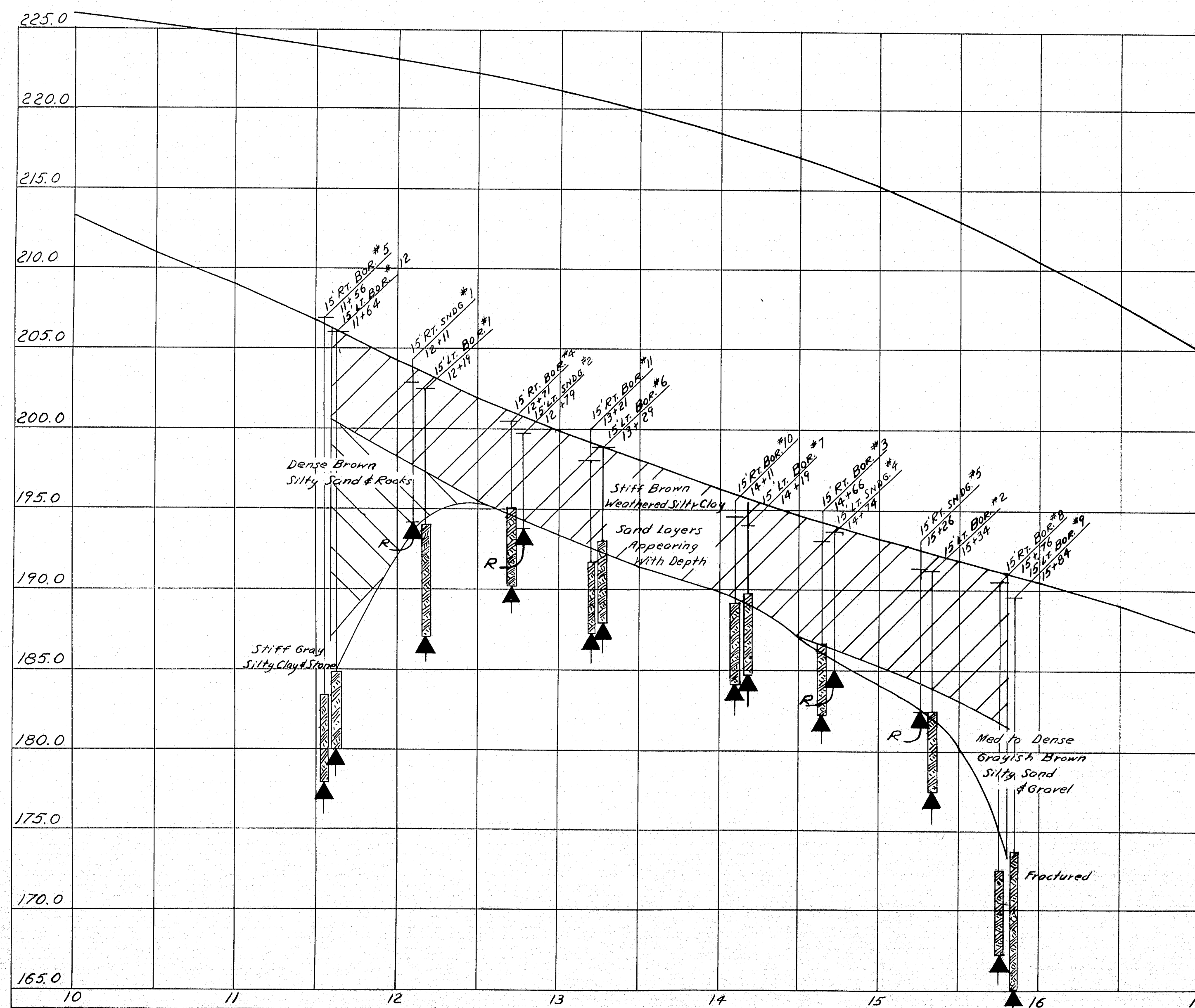
B. P. R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-6(13)	3	22



STA. 558+06 ± INTERSTATE S.B.
STA. 12+45 ± LYONS ROAD

STA. 559+12.24 INTERSTATE N.B.
STA. 15+00 LYONS ROAD

○ WASH BORING
○ ROD SOUNDING



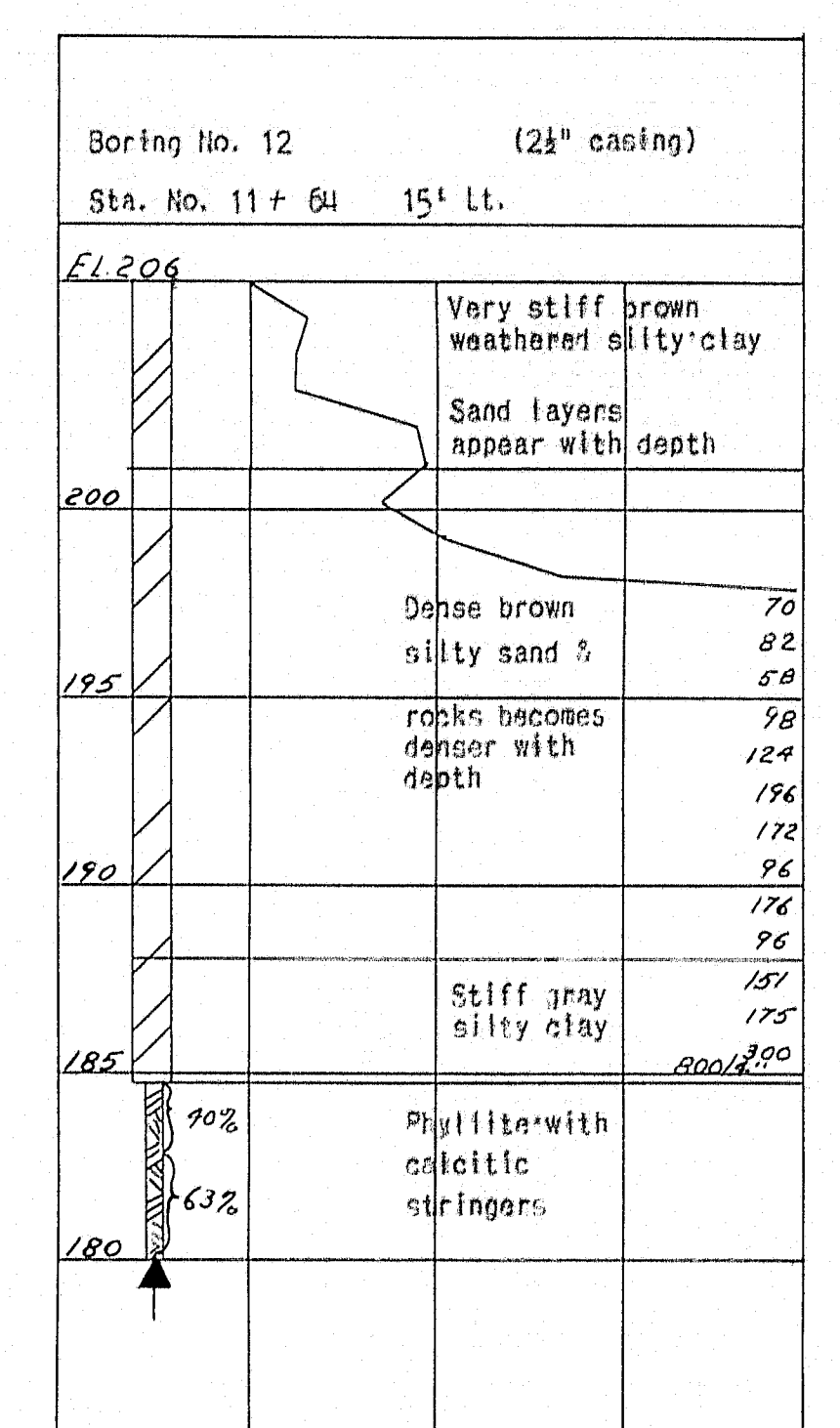
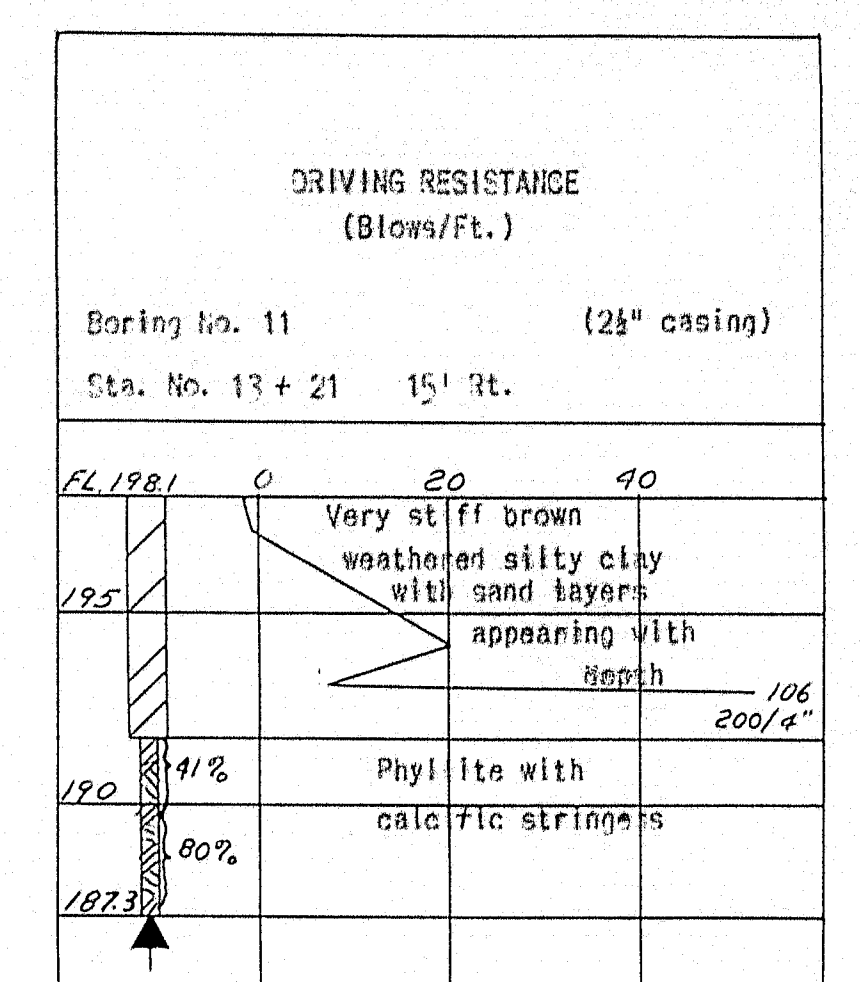
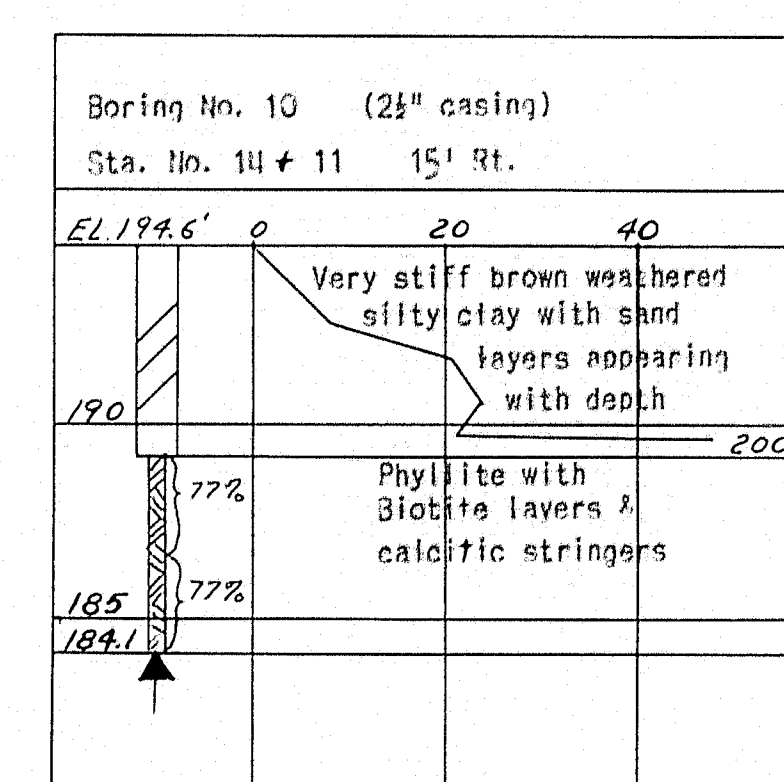
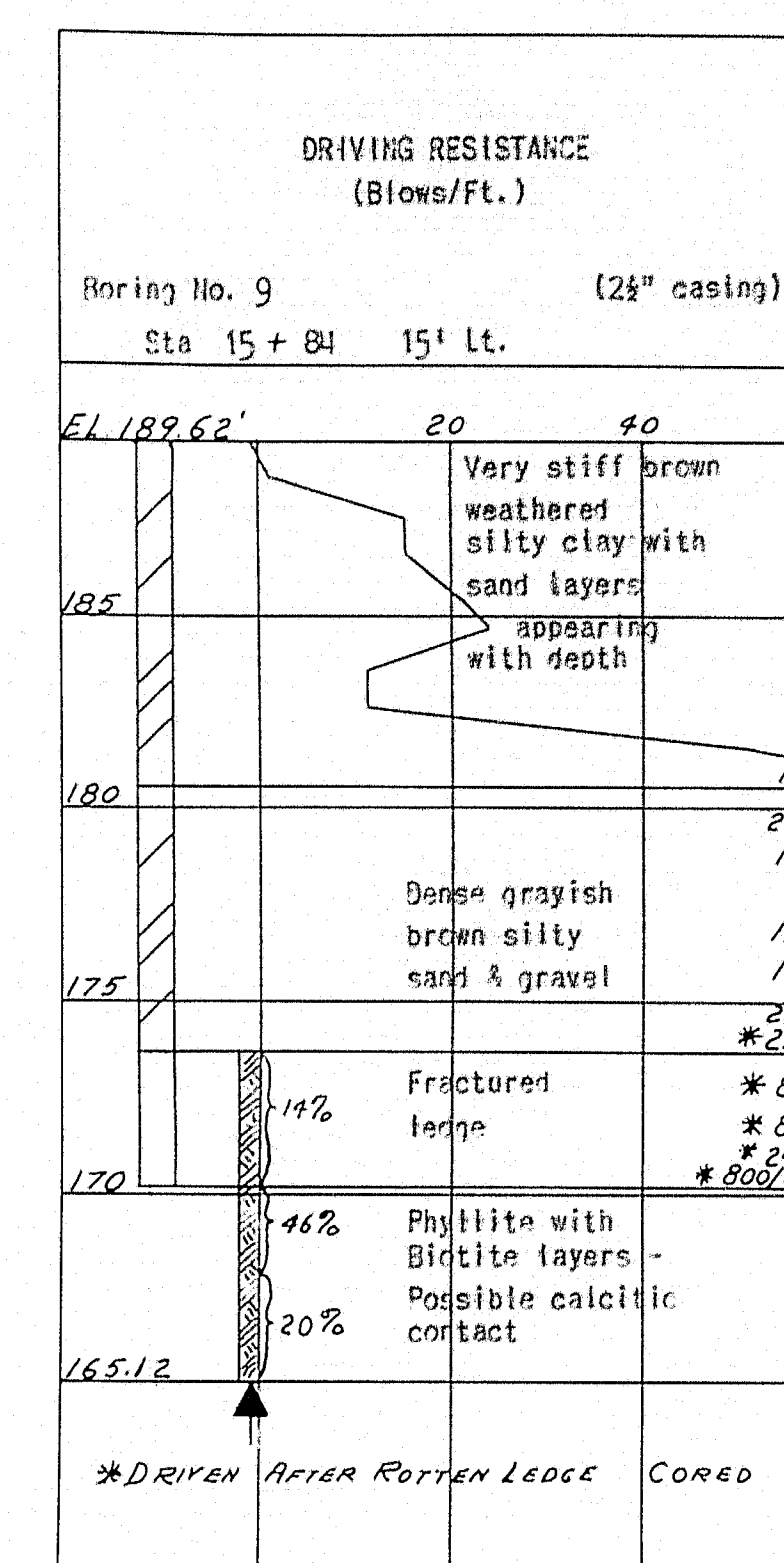
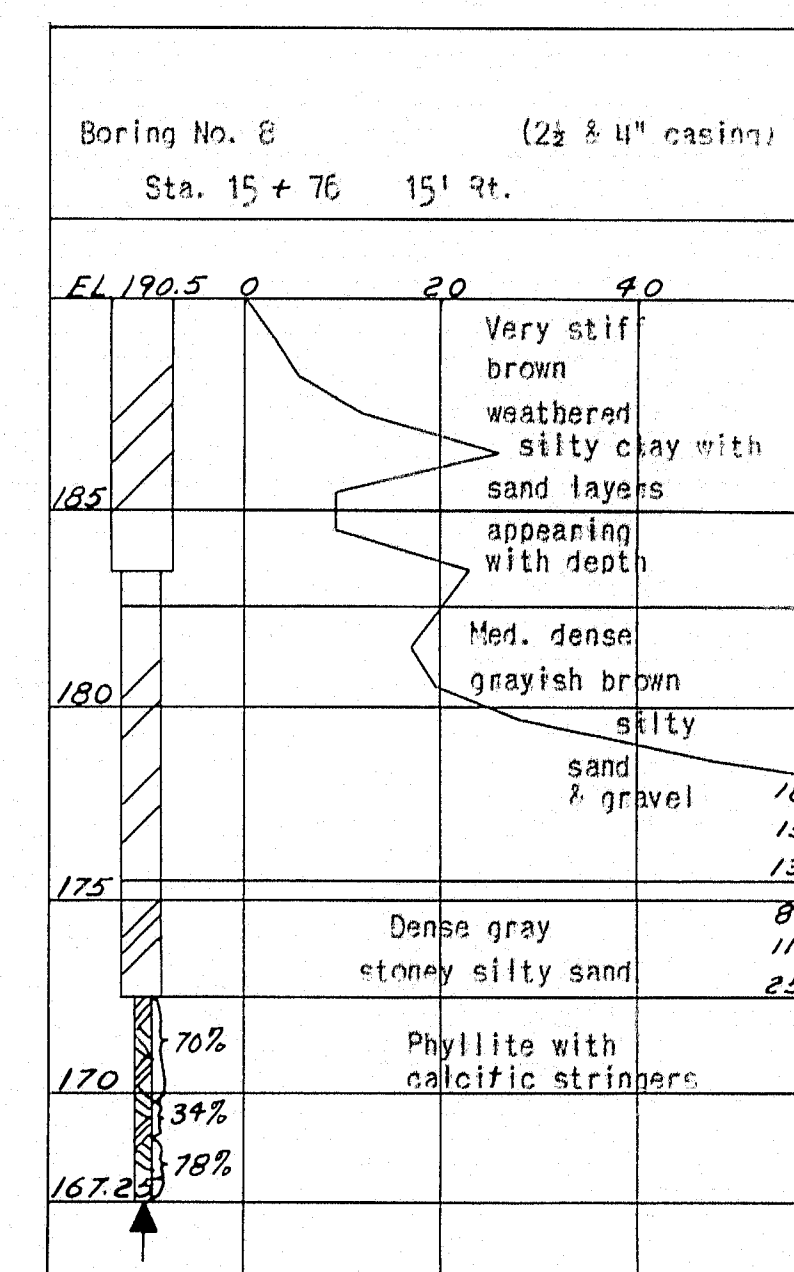
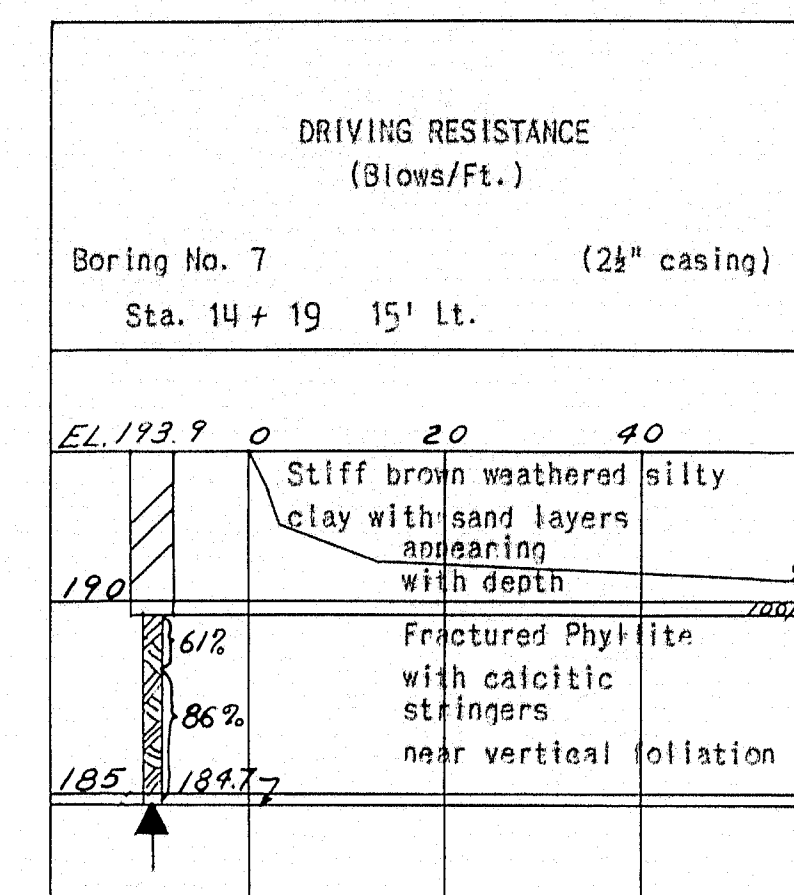
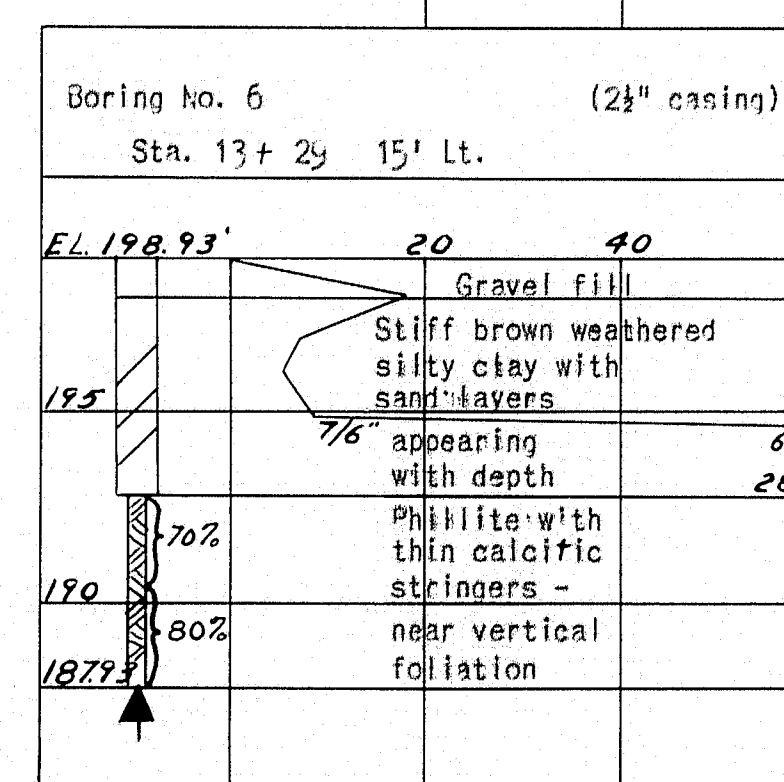
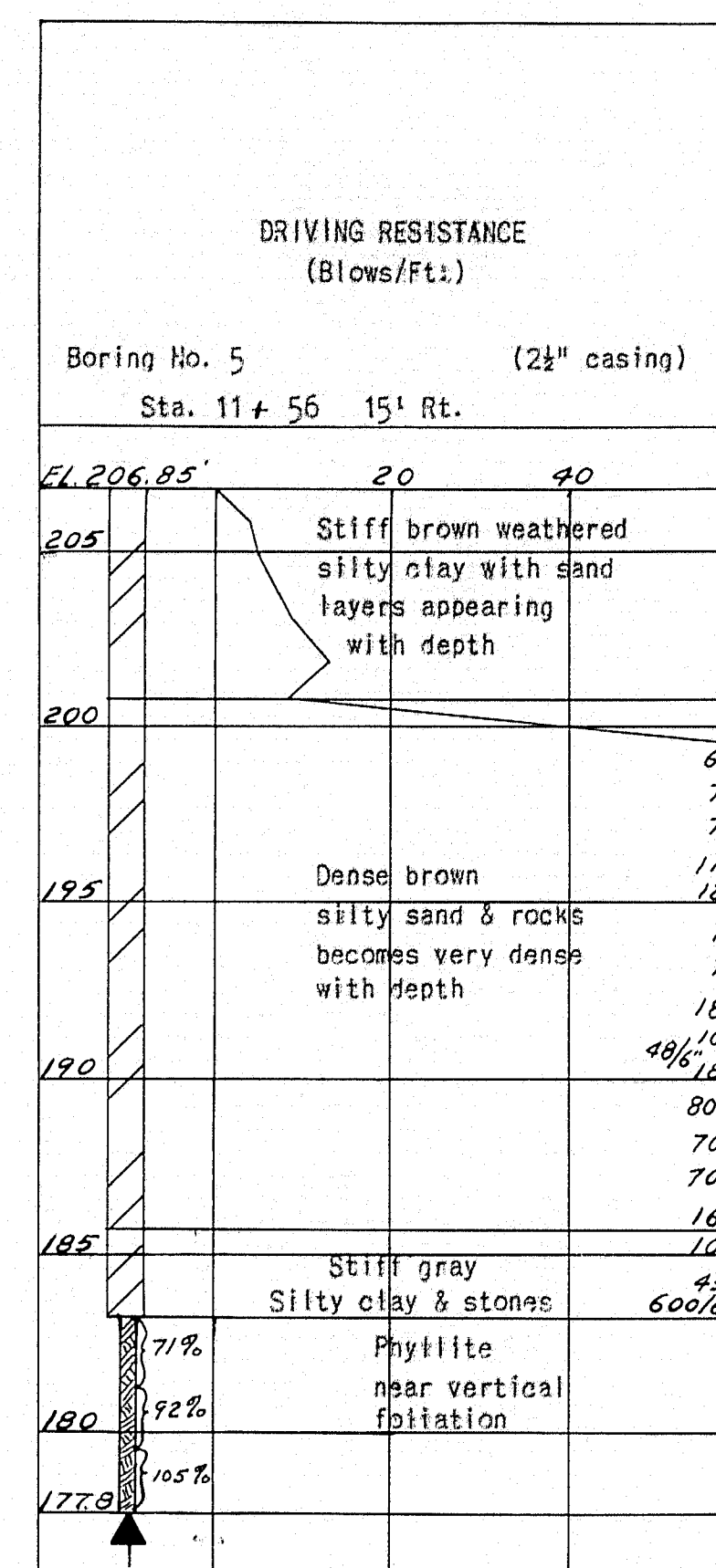
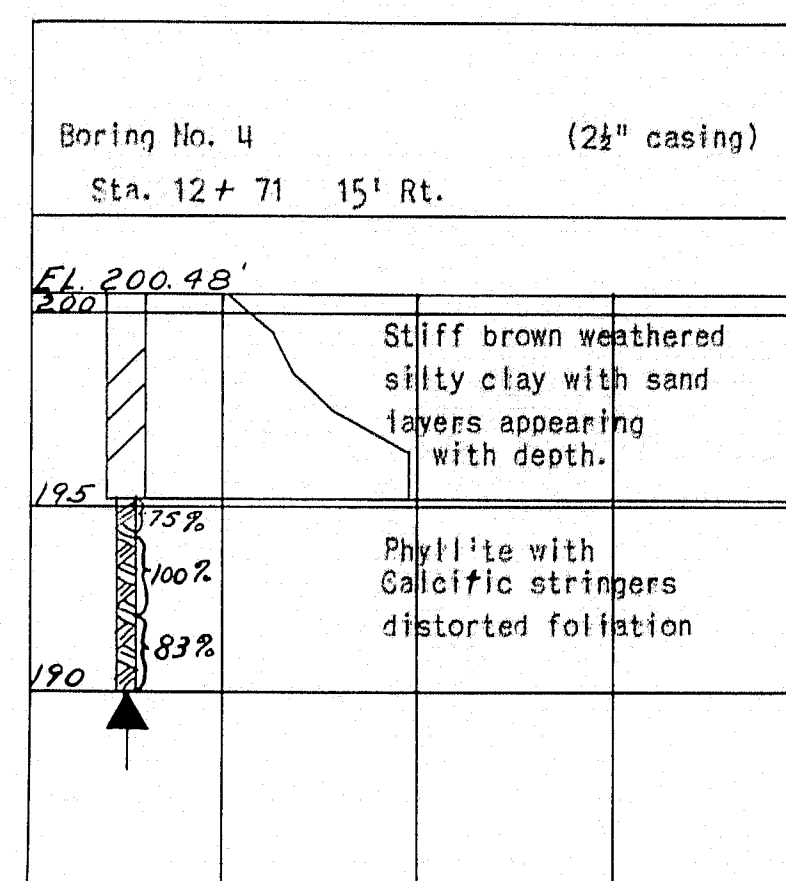
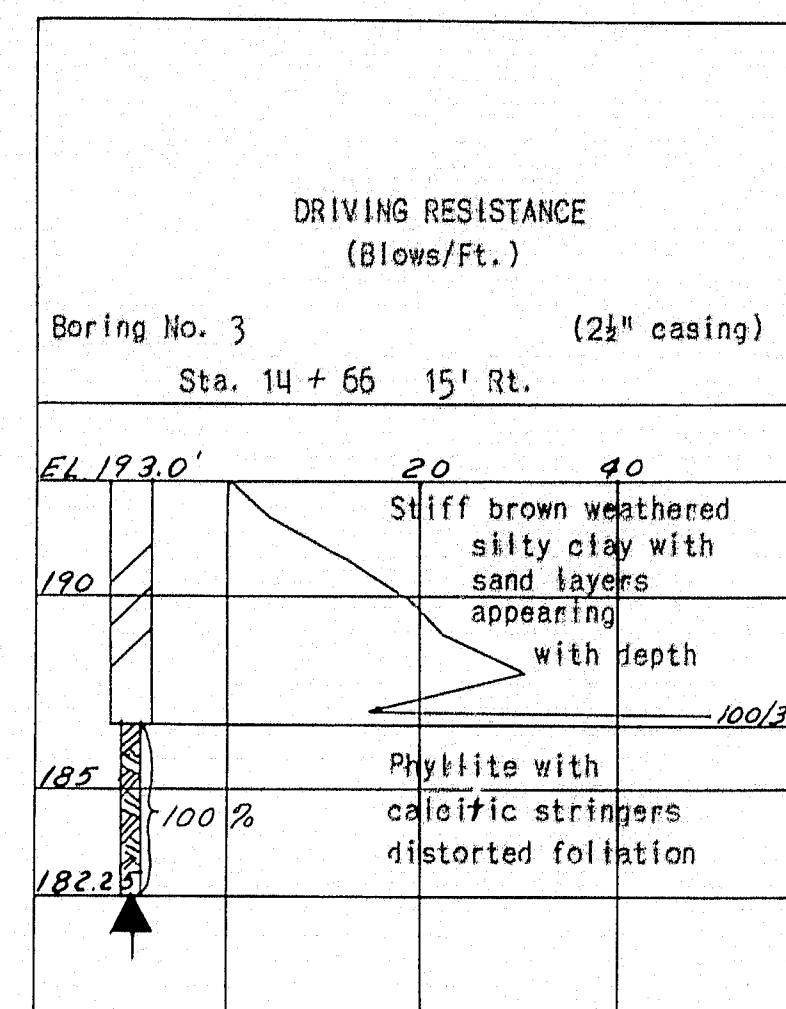
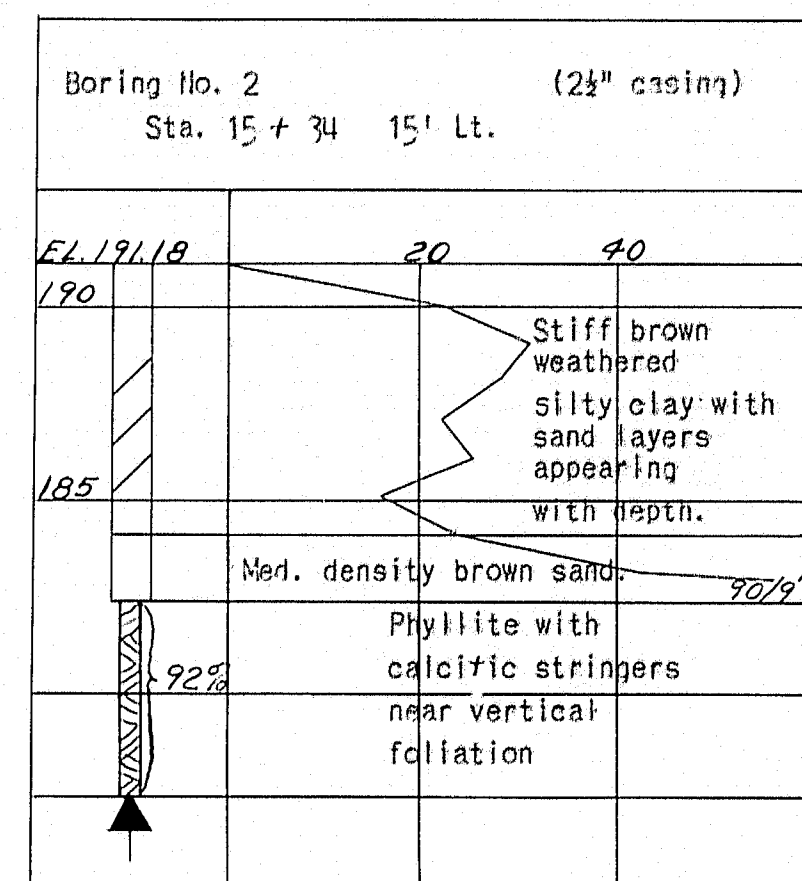
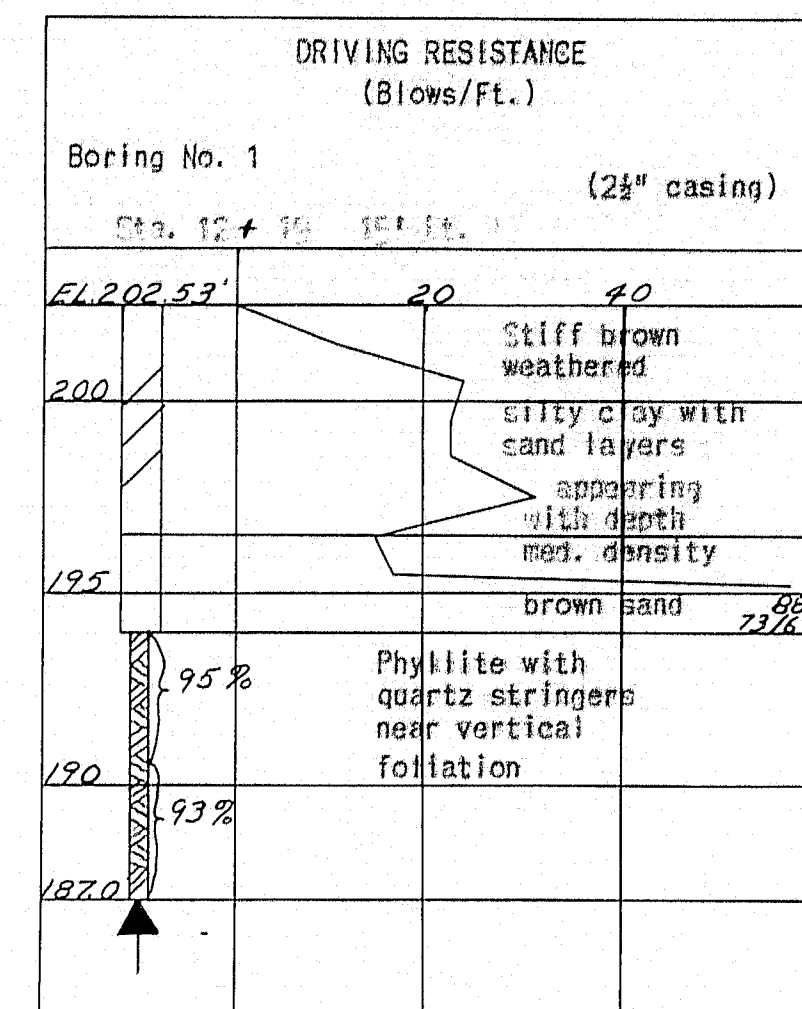
DESIGN -
TRACE - V. SMITH
CHECK - C. J. A.

BRIDGE NO.
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

LYONS ROAD BRIDGE
OVER
INTERSTATE HIGHWAY
IN THE TOWN OF
SIDNEY
KENNEBEC COUNTY
SOILS PROFILE

SHEET 3 OF 22 AUGUSTA, MAINE MAY 1958

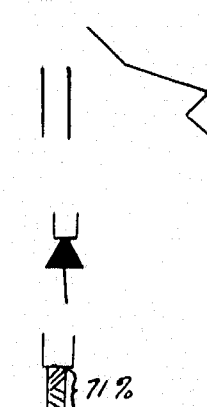


BORING NOTES

Number of blows of 275# hammer falling 18 inches required to drive extra heavy casing one foot thus:

Bottom of boring indicated thus:

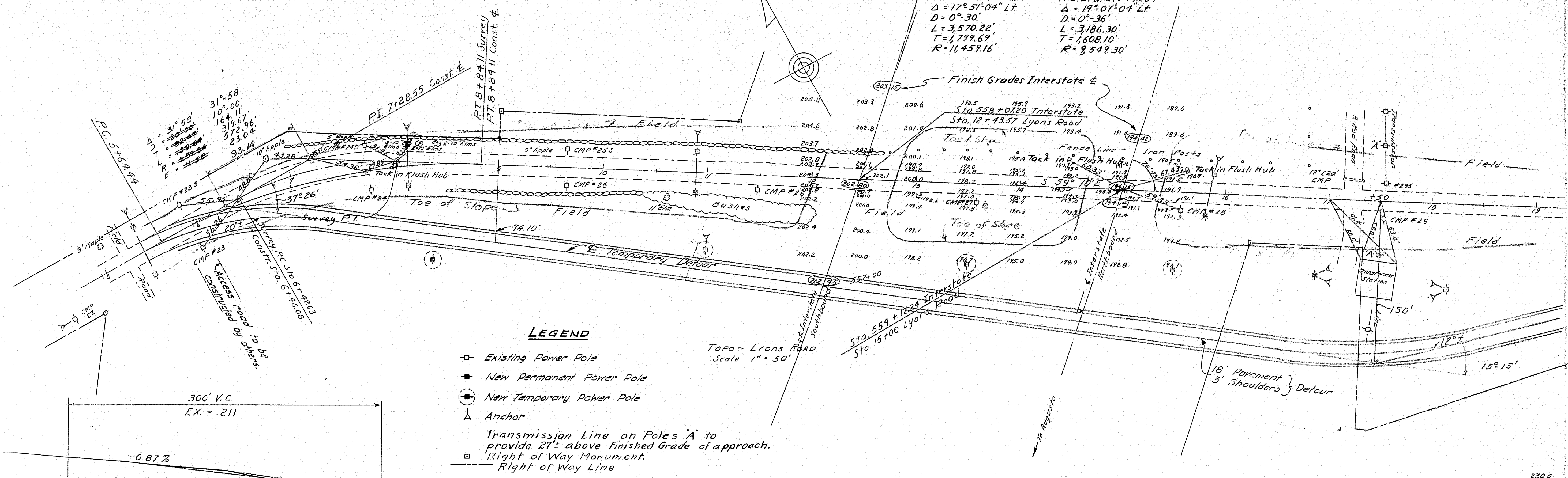
Percent recovery of rock core by diamond bit thus:



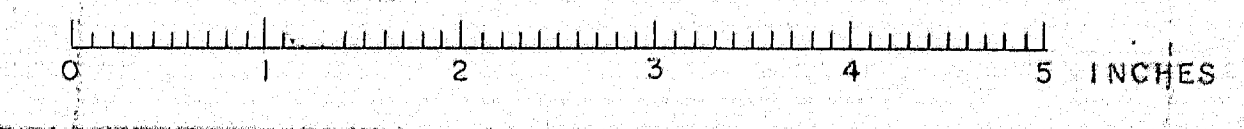
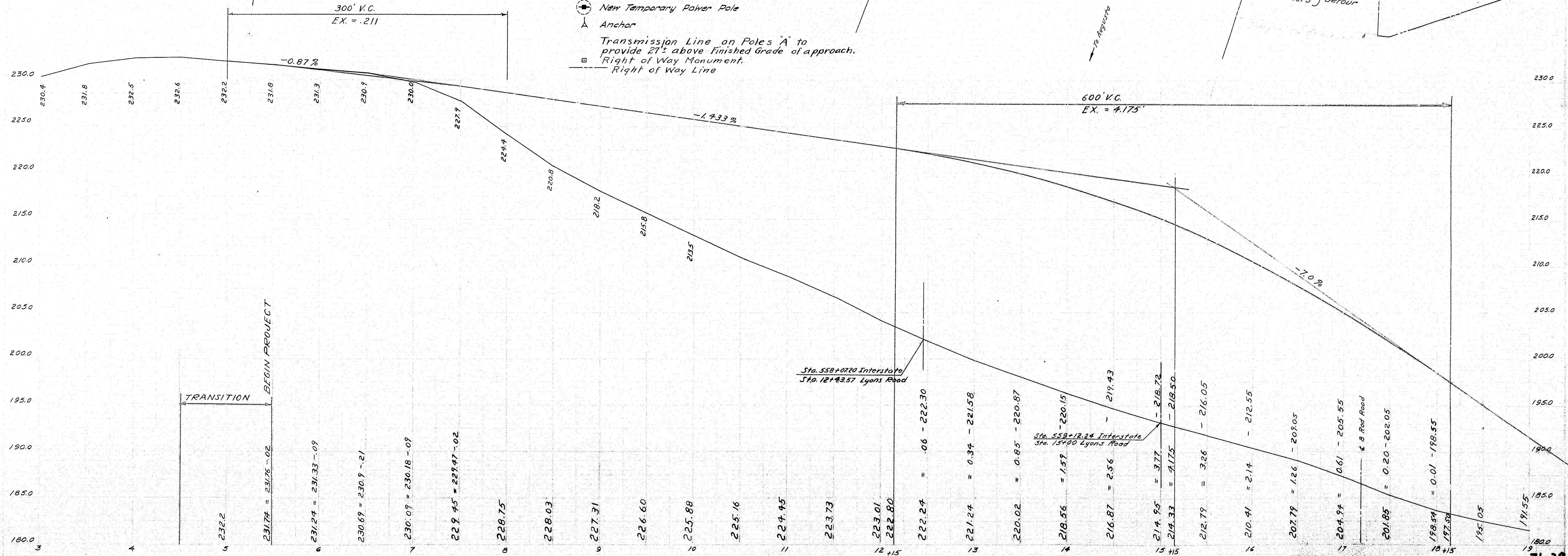
B.M. # A-60
 El. 204.44
 Vert. Hinge Nail in Root of 12" Cherry
 230' Left of 567+80 Northbound

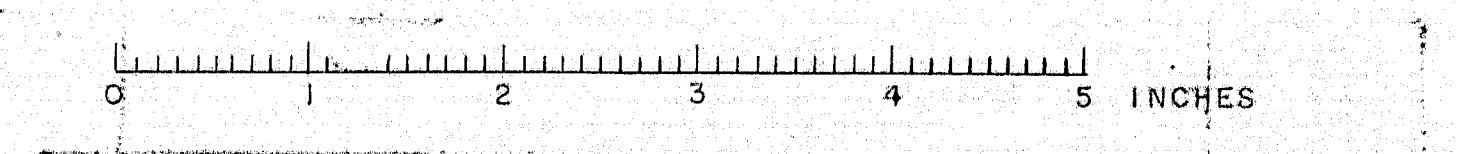
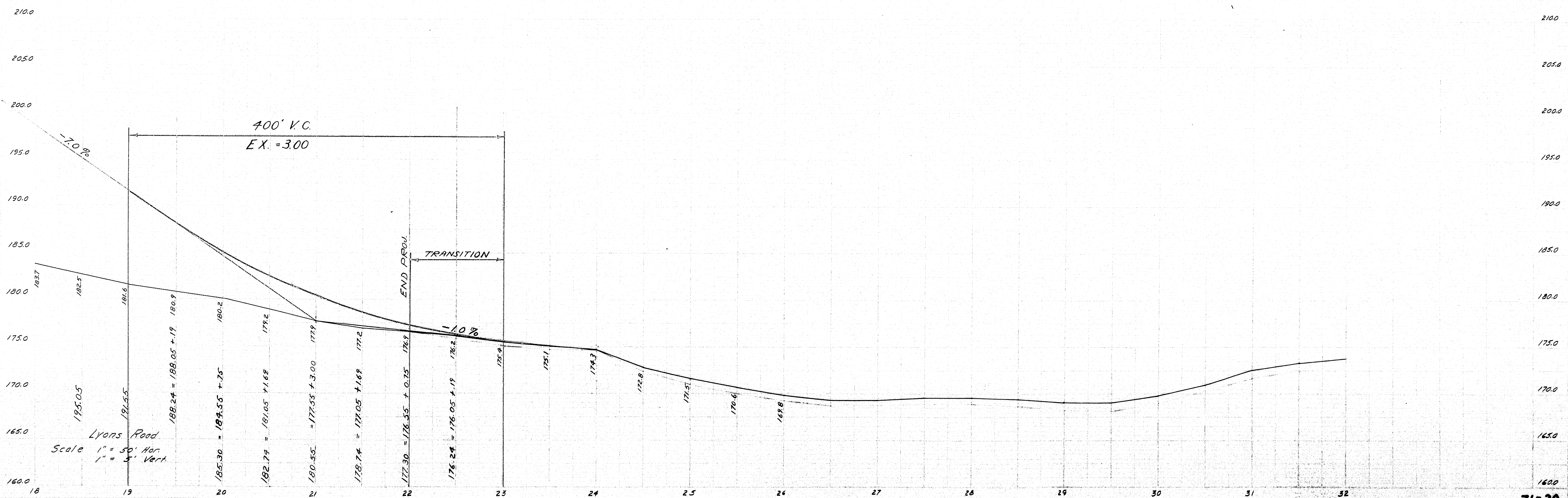
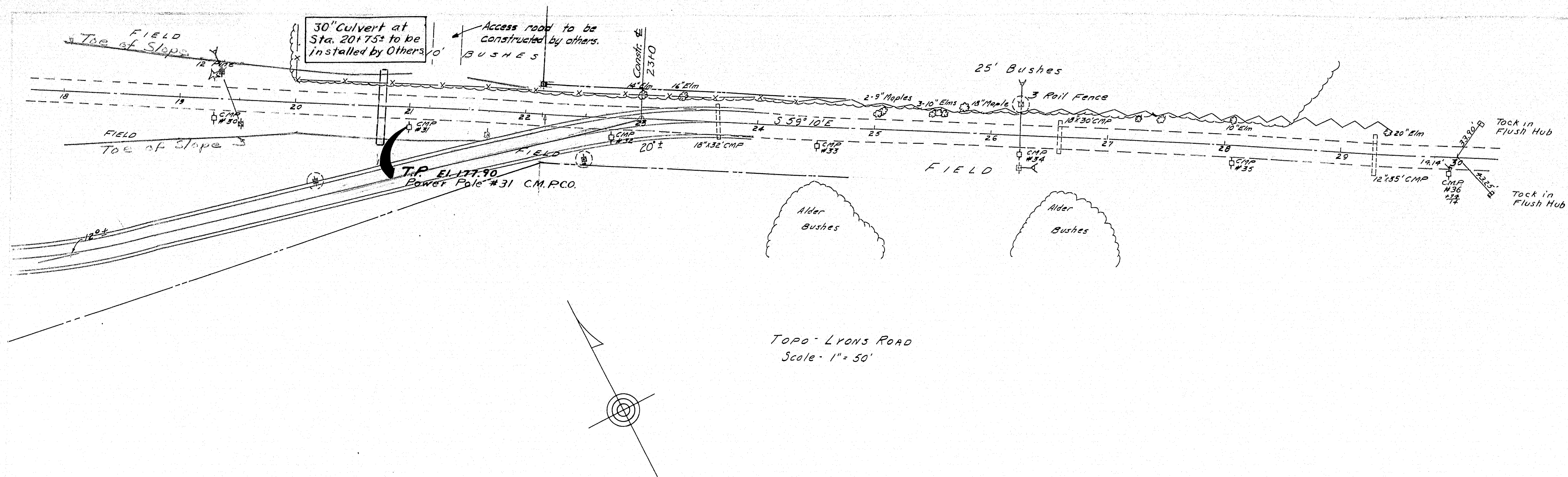
Interstate Curve Data

Southbound	Northbound
PI=Sta. 569+72.10	PI=Sta. 570+13.04
$\Delta = 17^\circ 51' 04''$ Lt.	$\Delta = 19^\circ 07' 04''$ Lt.
$D = 0^\circ 30'$	$D = 0^\circ 36'$
$L = 3,570.22'$	$L = 3,186.30'$
$T = 1,779.69'$	$T = 1,608.10'$
$R = 11,459.16'$	$R = 9,549.30'$

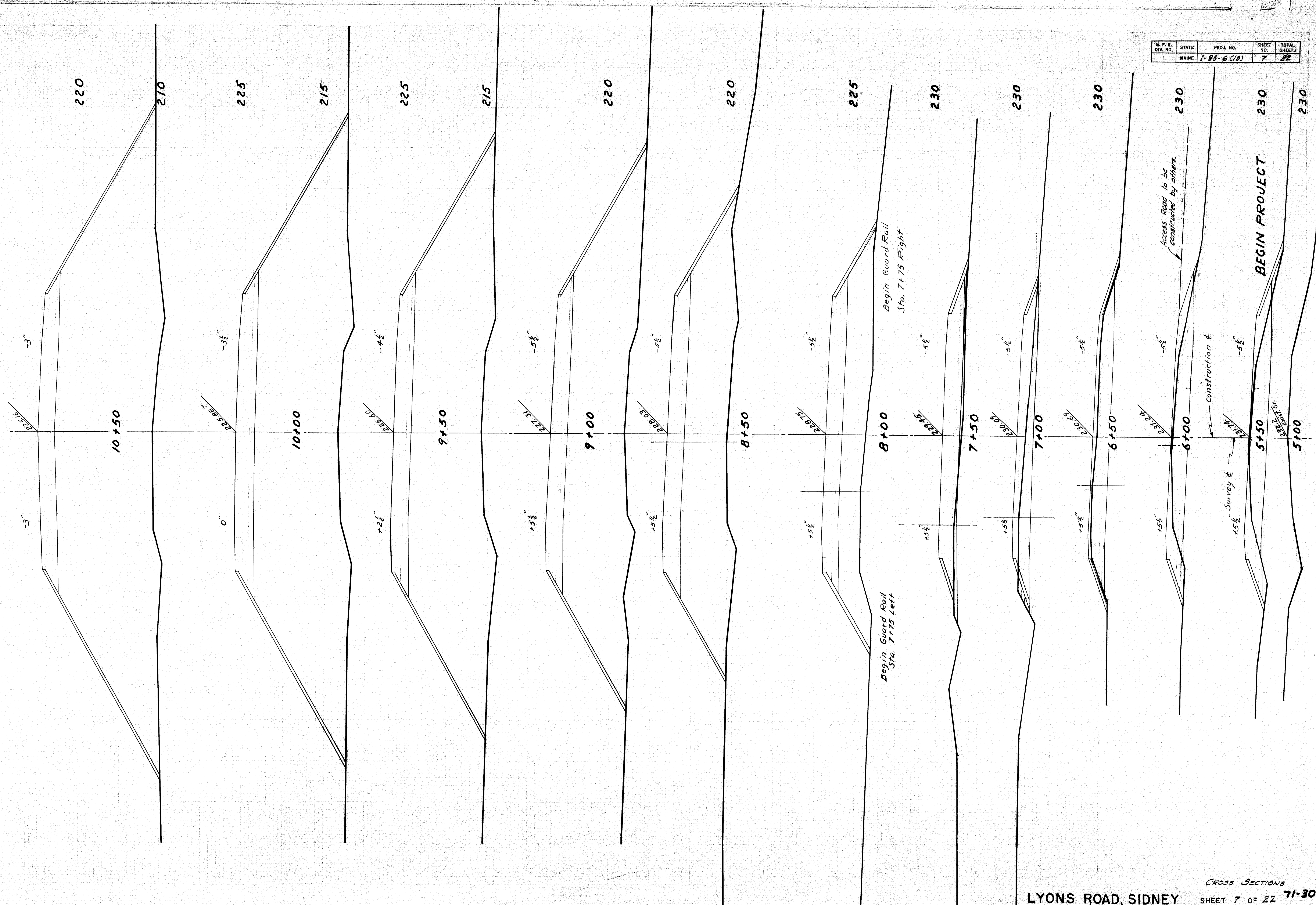


- LEGEND**
- Existing Power Pole
 - New Permanent Power Pole
 - ⊙ New Temporary Power Pole
 - △ Anchor
 - Transmission Line on Poles "A" to provide 21' above Finished Grade of approach.
 - Right of Way Monument
 - Right of Way Line



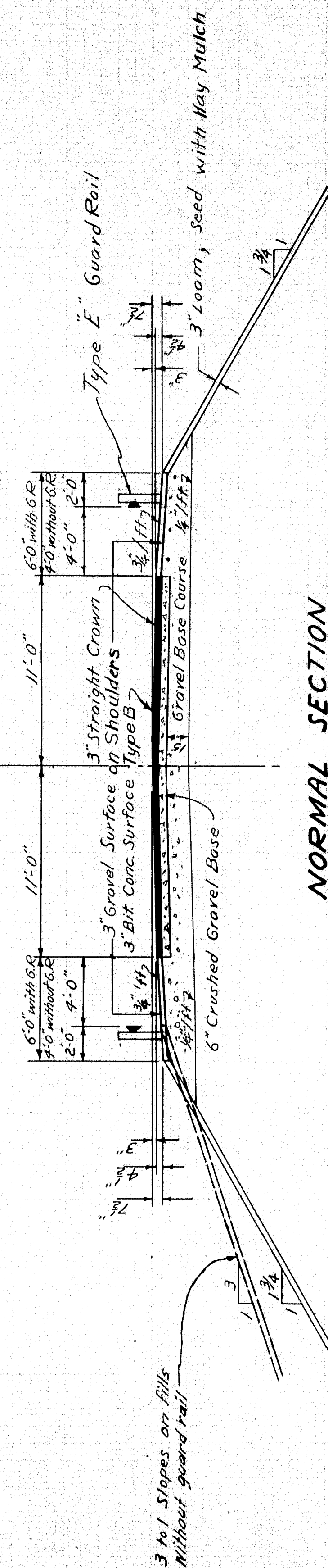
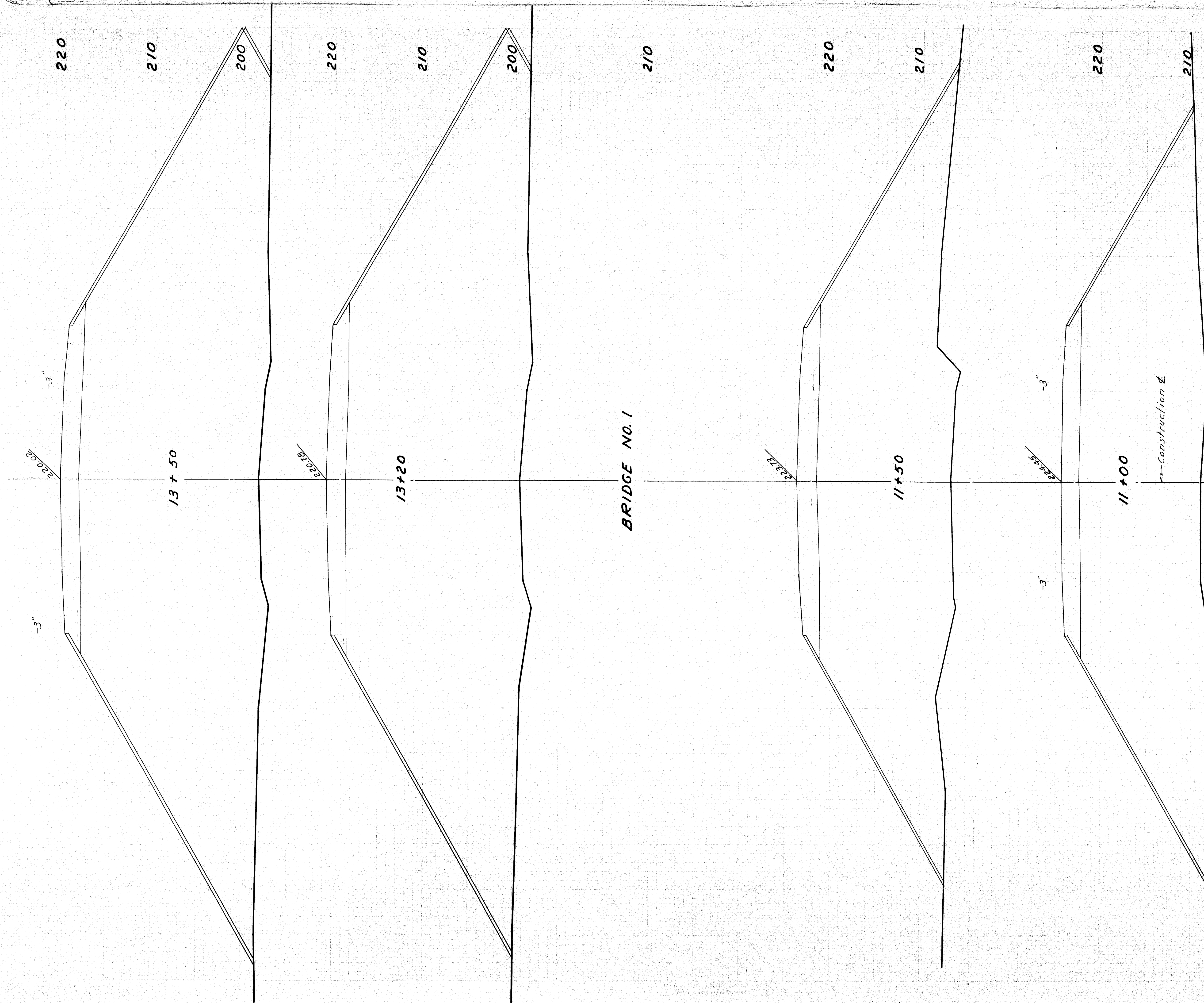


B. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-6 (13)	7	22



0 1 2 3 4 5 INCHES

D. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-25-6 (13)	8	22



NORMAL SECTION

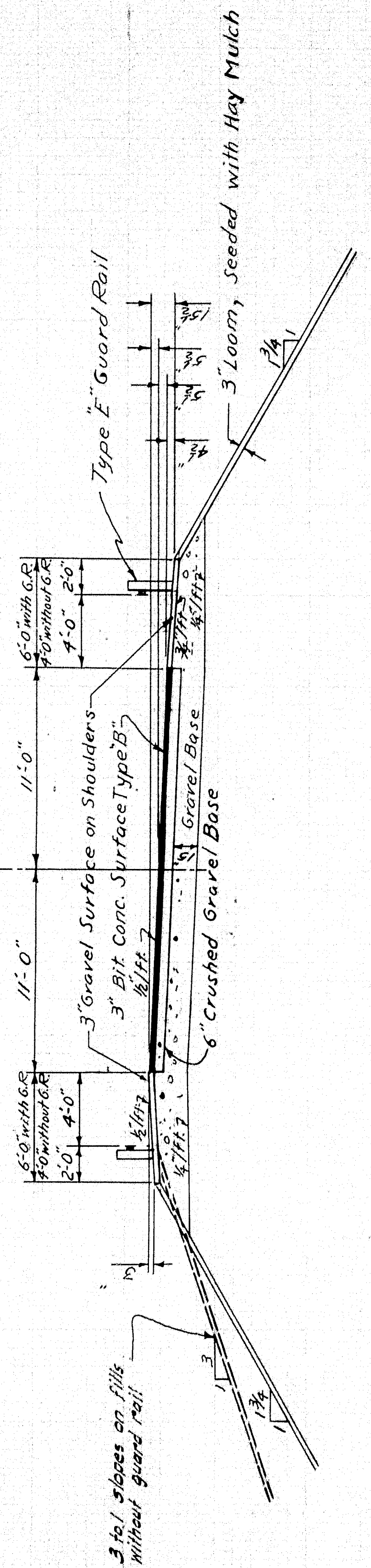
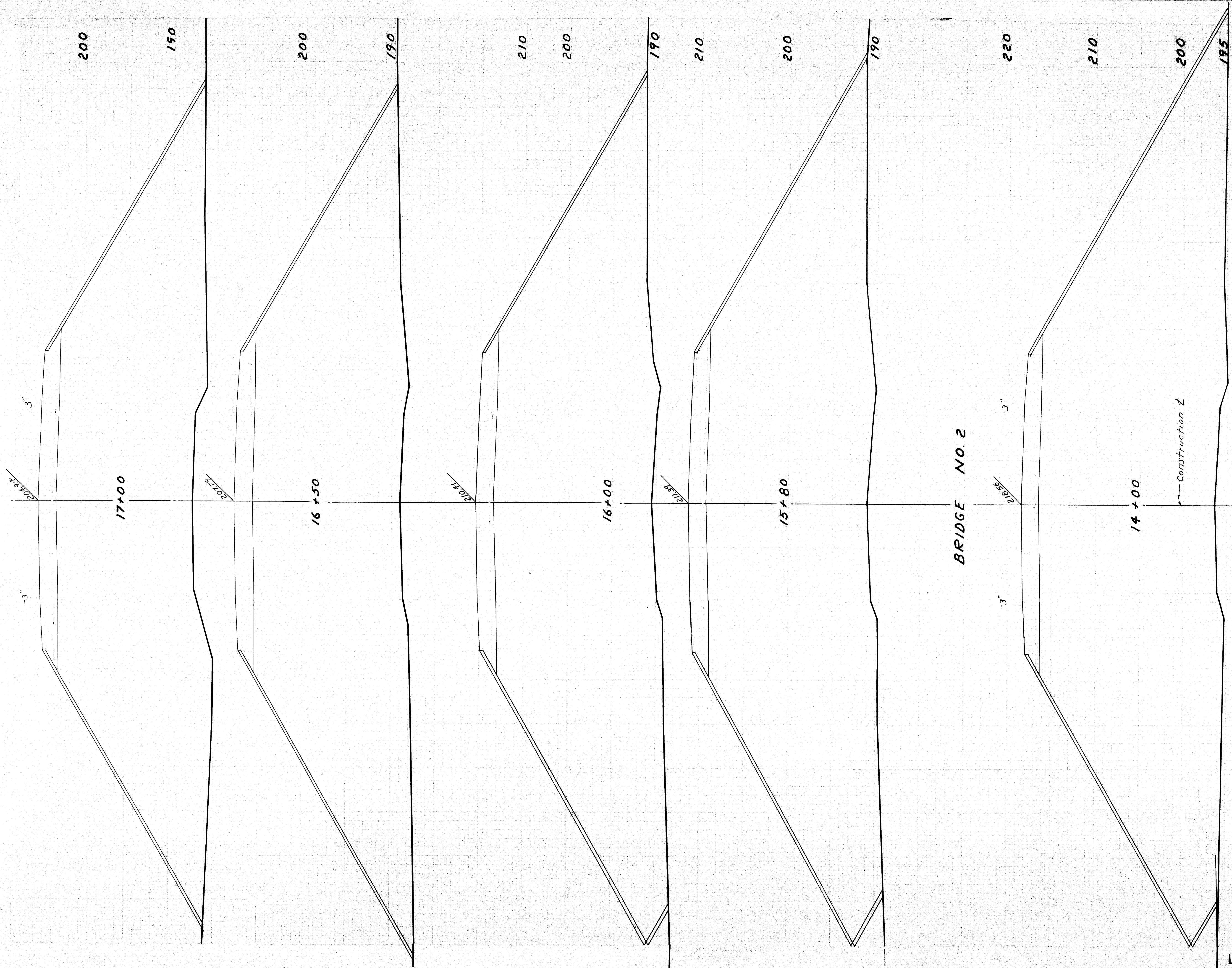
See Sht 9 For Typical Super-elevated Section

LYONS ROAD, SYDNEY

CROSS SECTIONS
SHEET 8 OF 22
71-31

0 1 2 3 4 5 INCHES

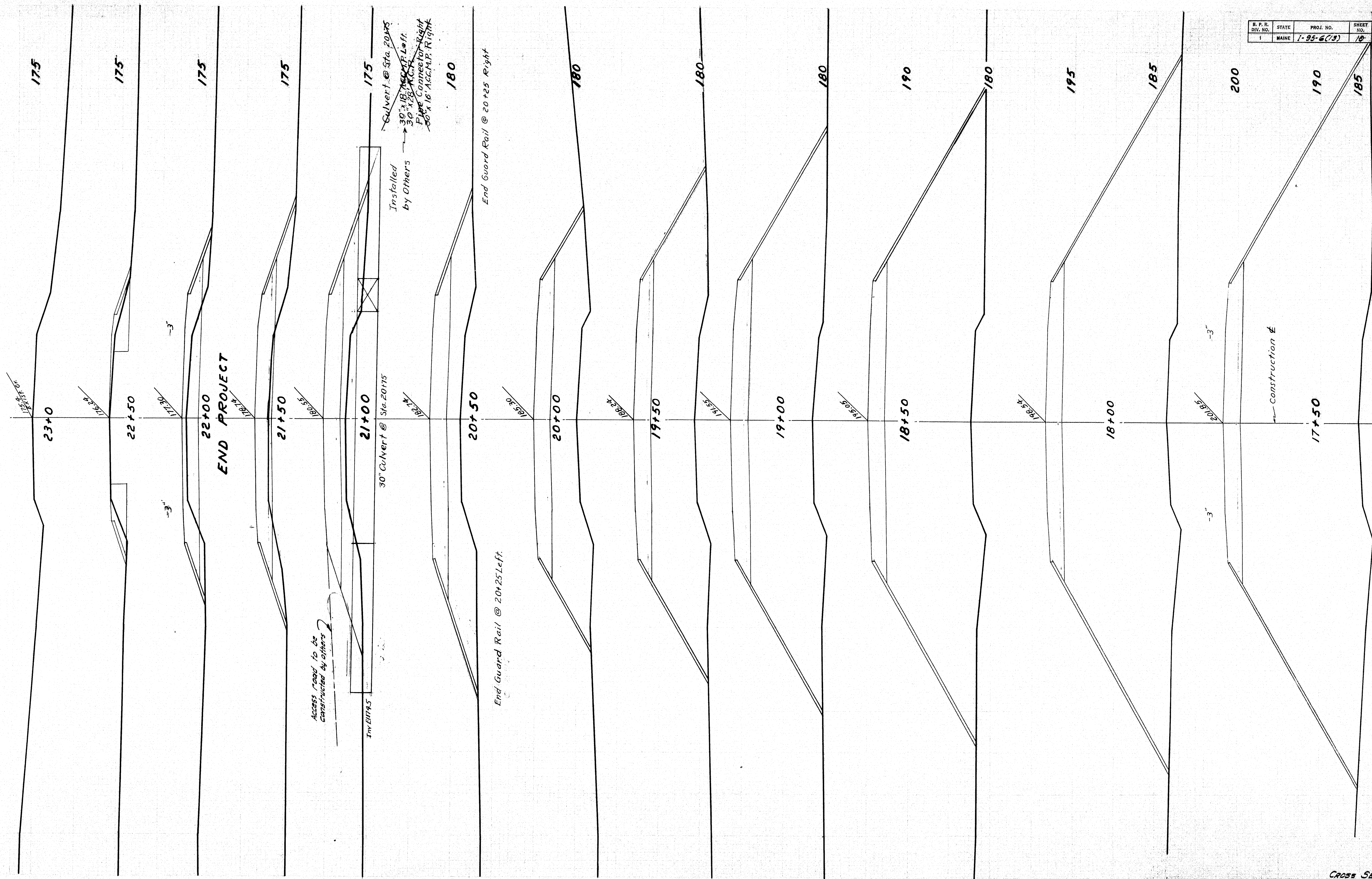
B. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-6(13)	9	22



TYPICAL SUPER-ELEVATED SECTION

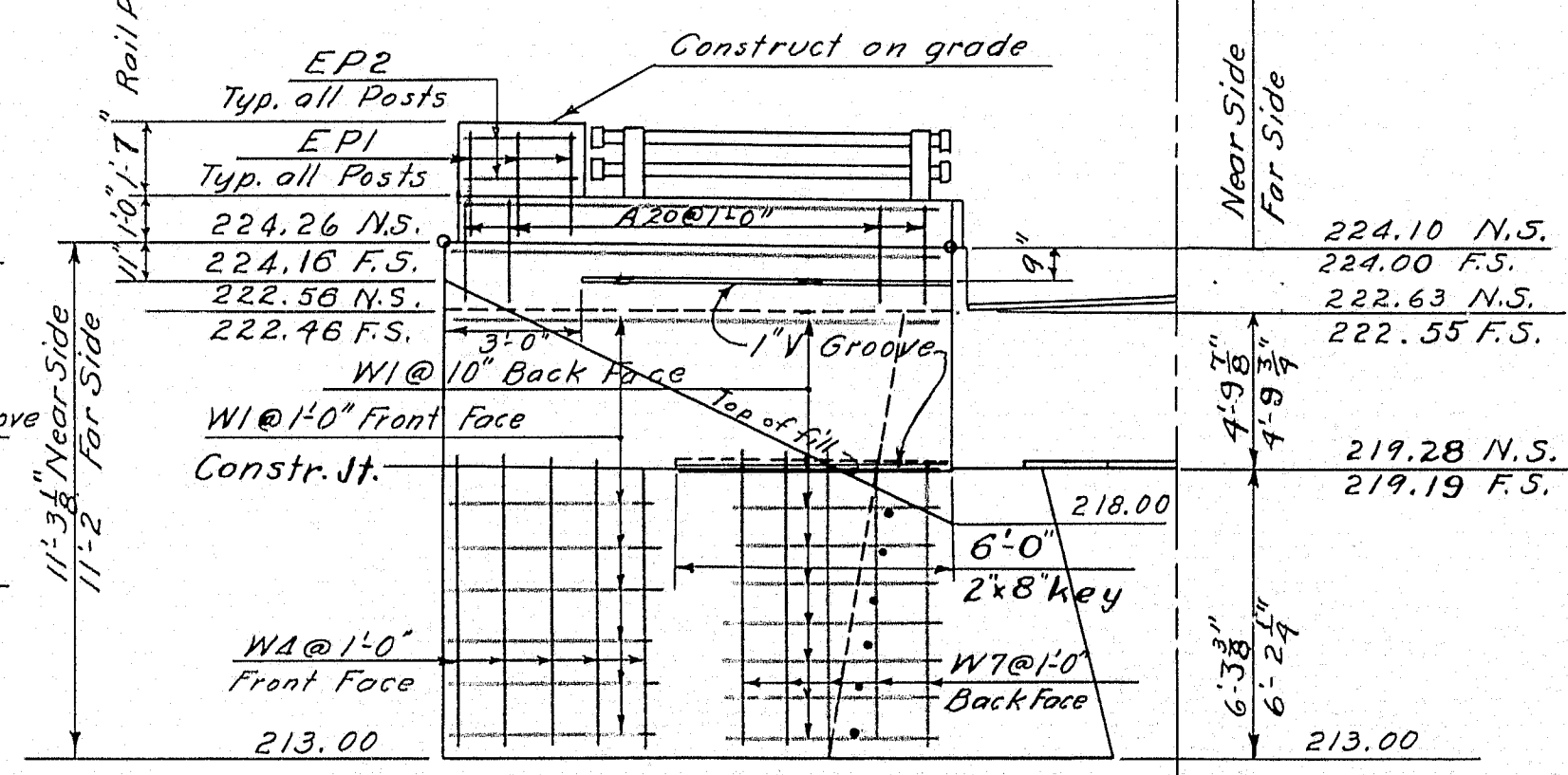
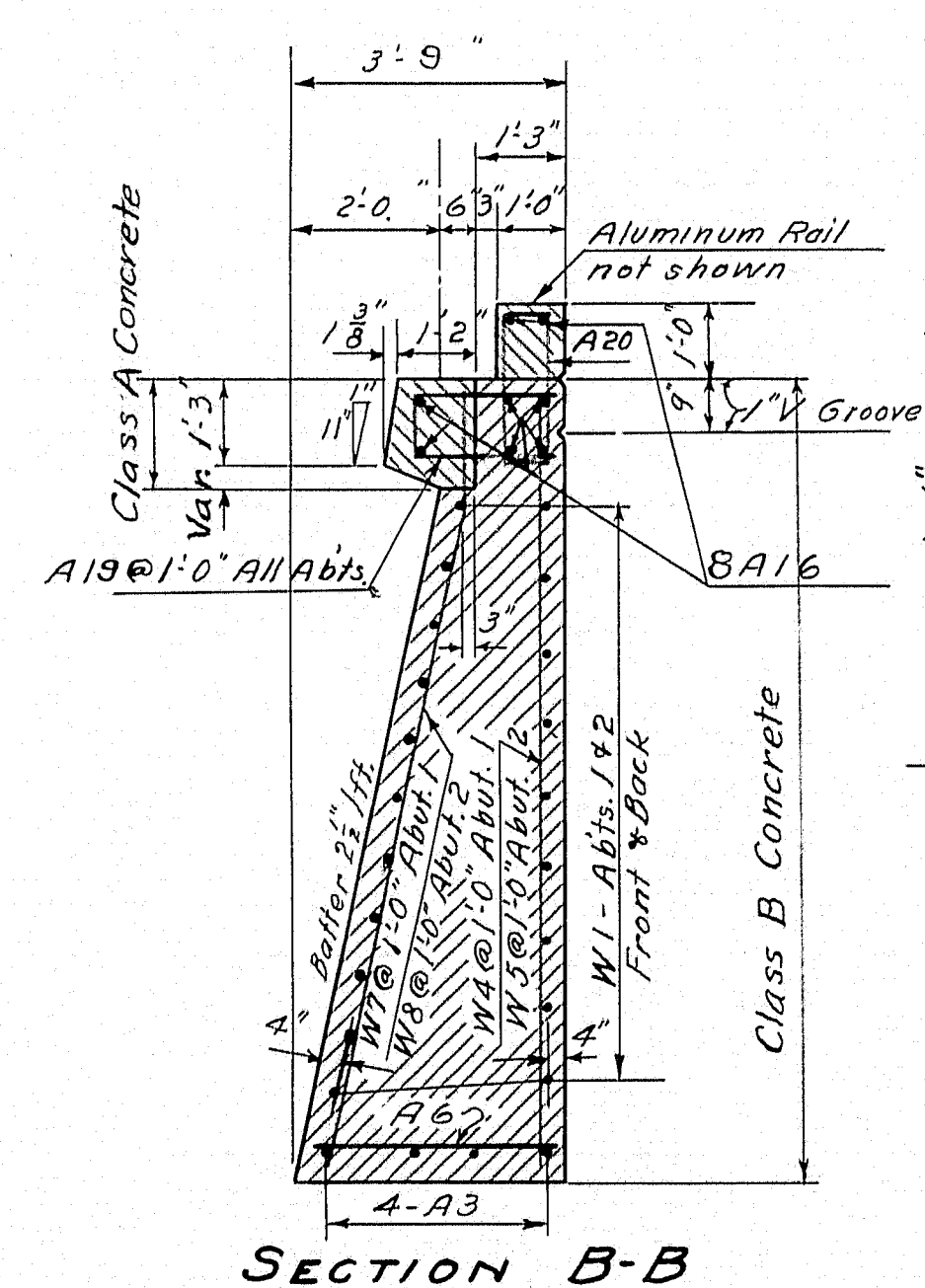
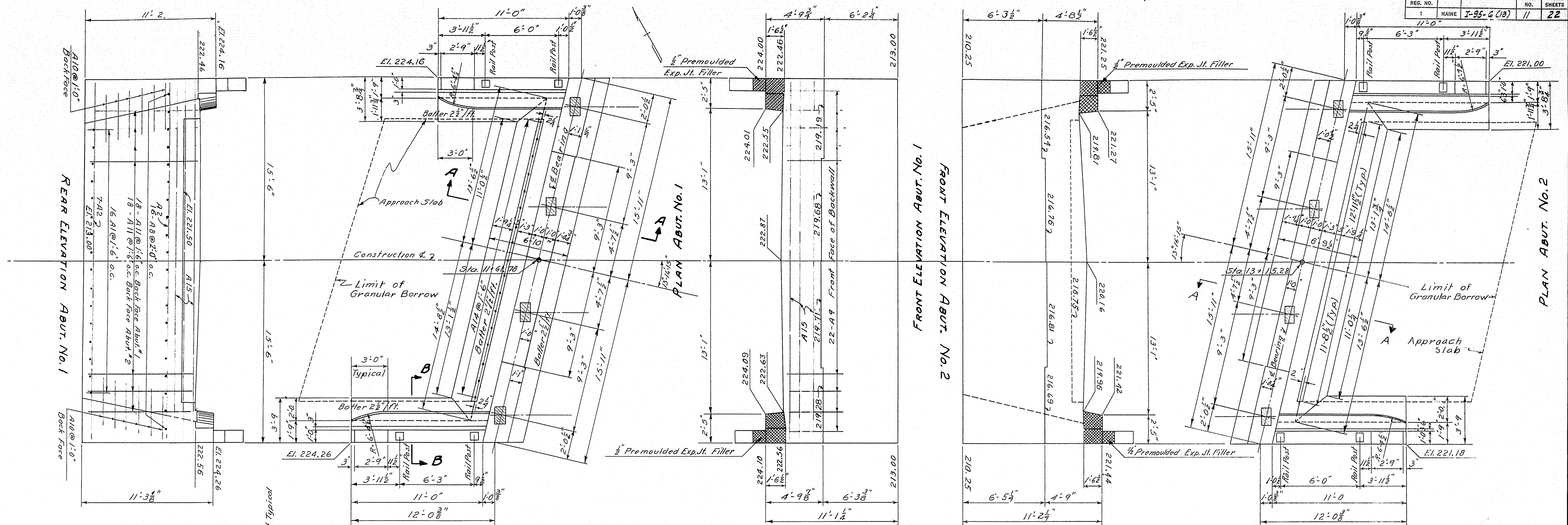
(See Sht. 8 For Normal Sect)
NOTE: Do not overstate to place gravel base at locations where the existing material conforms to the requirements for "Gravel Base Course".

B. P. R. DIV. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-6(13)	10	22



0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-6 (13)	11	22



GENERAL NOTES

Dress shaded areas on bridge seats 1" larger all around than the size of the masonry plates to the exact elevations shown."

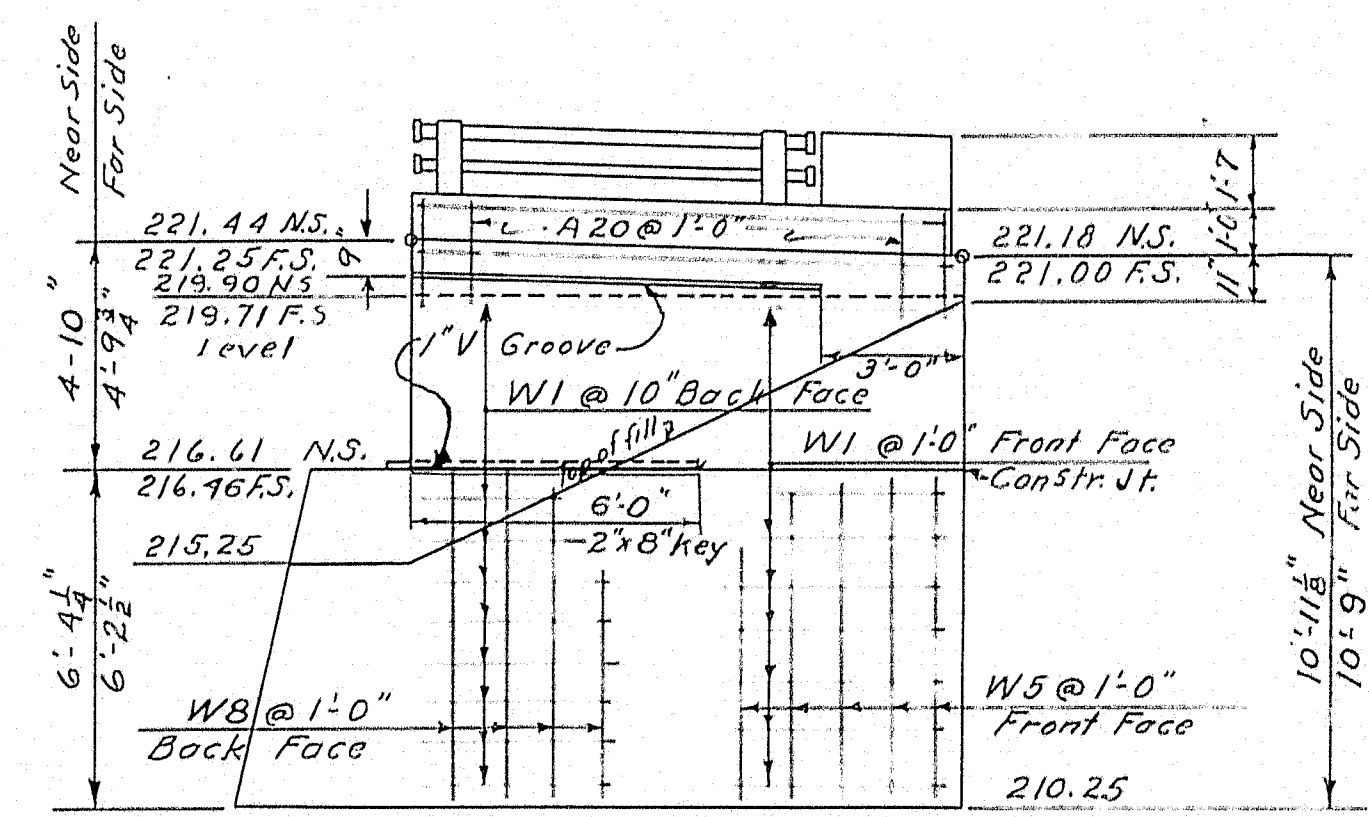
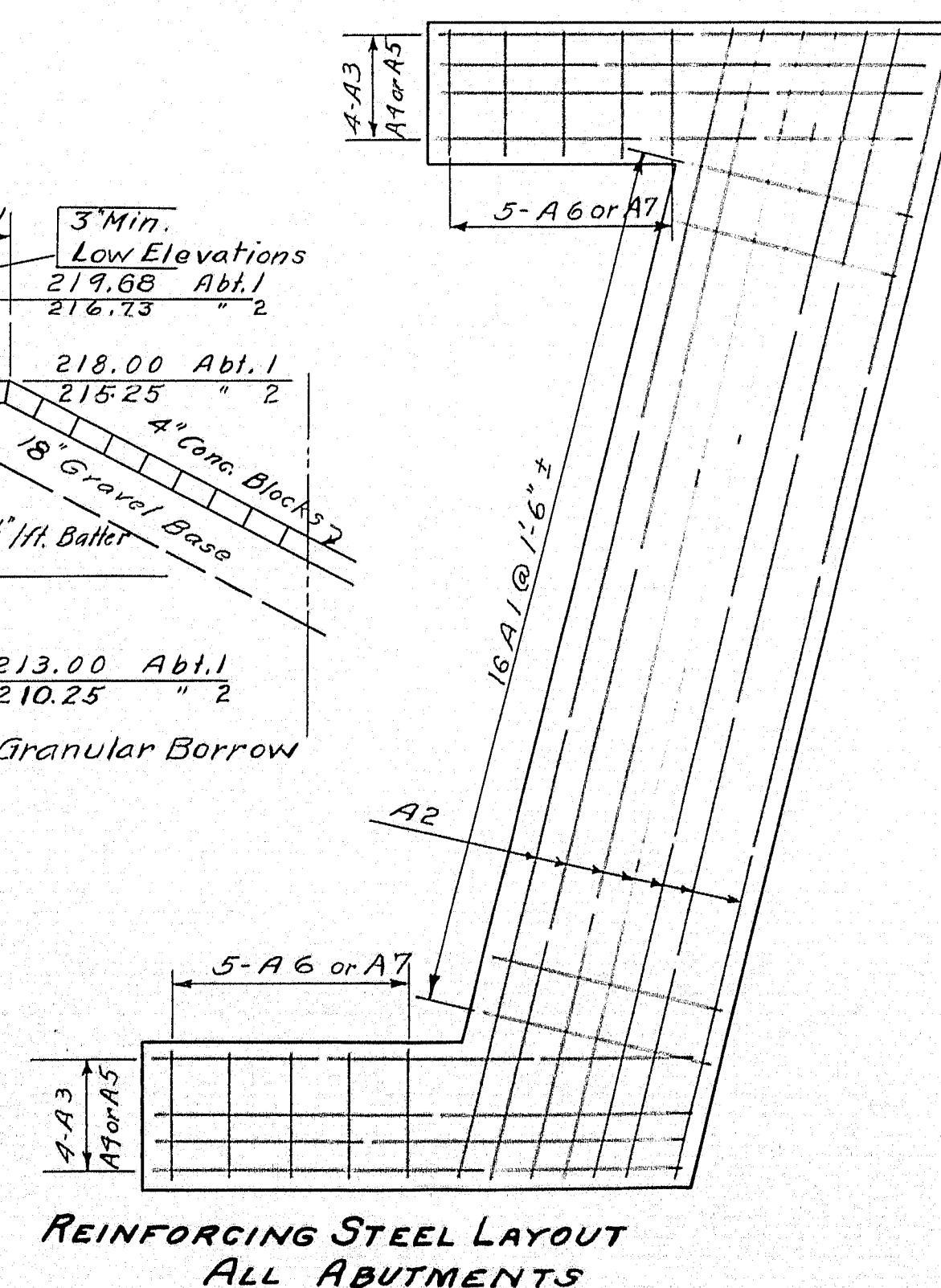
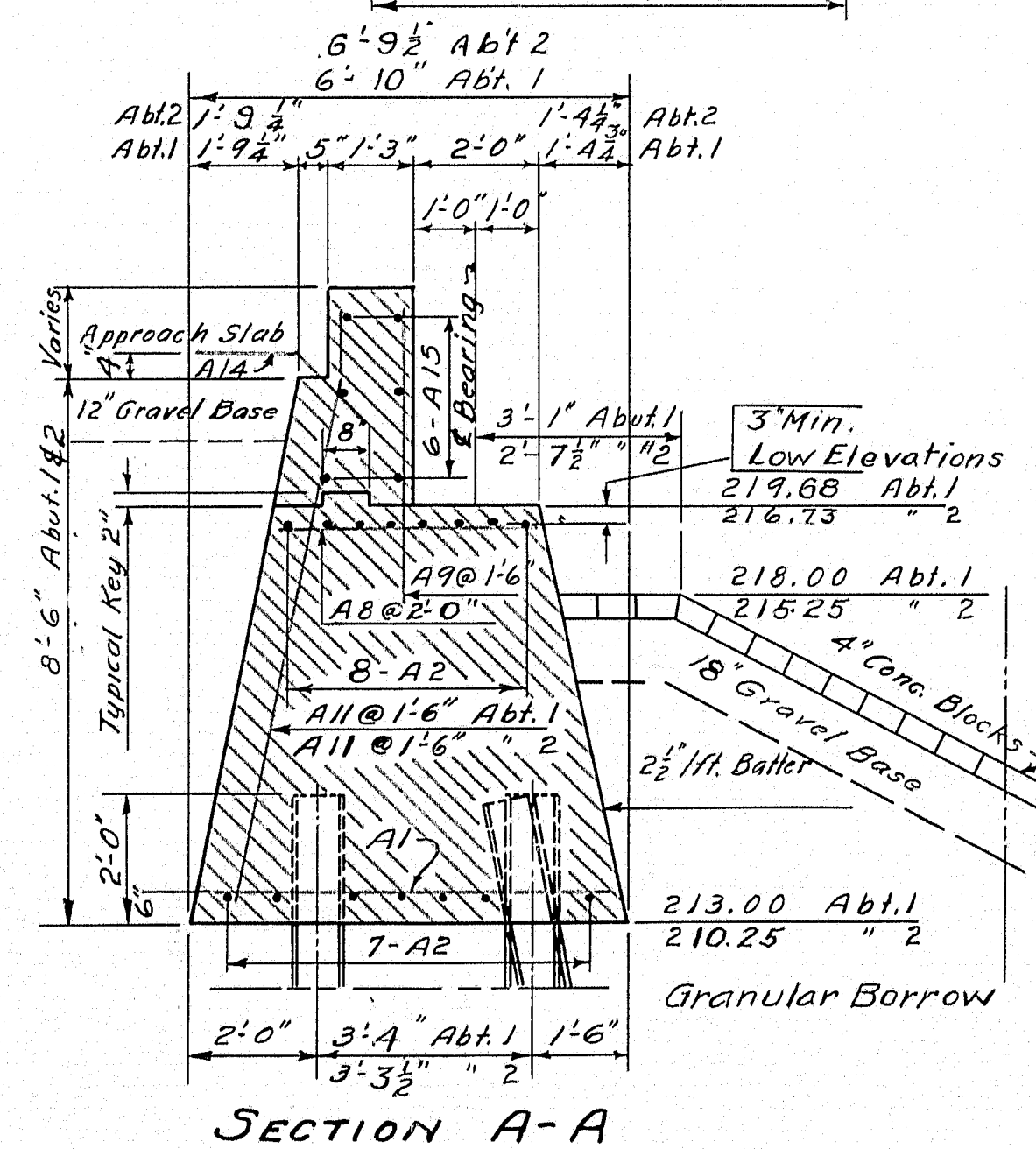
All chamfers to be $\frac{1}{2}''$ unless otherwise noted and
"V" grooves $1''$.

Reinforcing steel in bridge seats to be spaced to clear anchor bolts and in bottom of abutments to clear piles.

Backwalls are to be placed after structural steel is in place.

Concrete end posts, Curb inserts and rail parapets on abutments shall be Class A Concrete and will be paid as Item 701-33. Curb inserts to be placed after bridge curbs have been placed.

Curb inserts to be placed, after bridge curbs have been placed.



DESIGN - *WISWELL*
TRACE - *SAVAGE*
CHECK - *C.S.A.*

BRIDGE NO. _____
SURVEY - _____
PLOT - _____

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

LYONS ROAD BRIDGE

OVER

INTERSTATE HIGHWAY

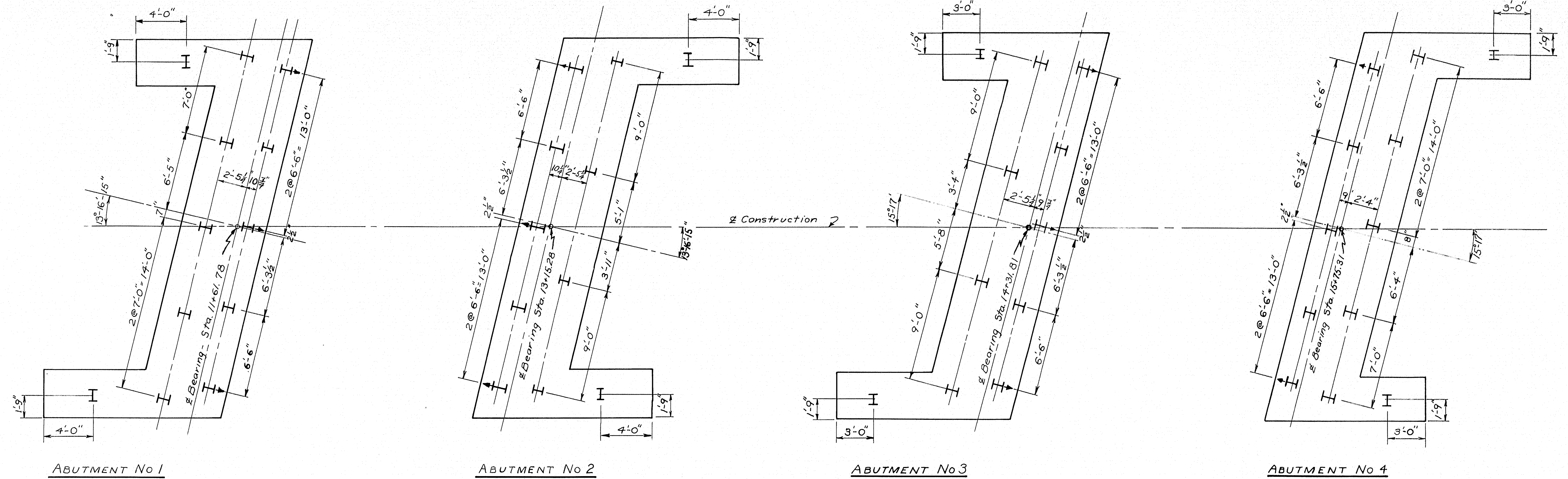
IN THE TOWN OF

SIDNEY

KENNEBEC COUNTY

ABUTMENTS NO. 1 & 2

SHEET // OF 22 AUGUSTA, MAINE MAY 1958



NOTES:

10" x 10" x 42# H-Piles

Abut. No 1 12 Reqd Estimated Length = 30'

Abut. No 2 11 " " " 25'

Abut. No 3 11 " " " 25'

Abut. No 4 12 " " " 30'

Max. Pile loads - Abut. No 1 & 4 28 Tons

" " 2 & 3 33 Tons

See Sections A-A & C-C for pile cut-off elevations

Fill to be placed up to elevation of bottom of Abutments before piles are driven

Piles shown thrust to be battered 2 1/2" per foot in the direction indicated.

DESIGN - WISWELL	BRIDGE NO.
TRACE - HOKIS	SURVEY
CHECK - C.S.A.	PILOT

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

LYONS ROAD BRIDGE

OVER

INTERSTATE HIGHWAY

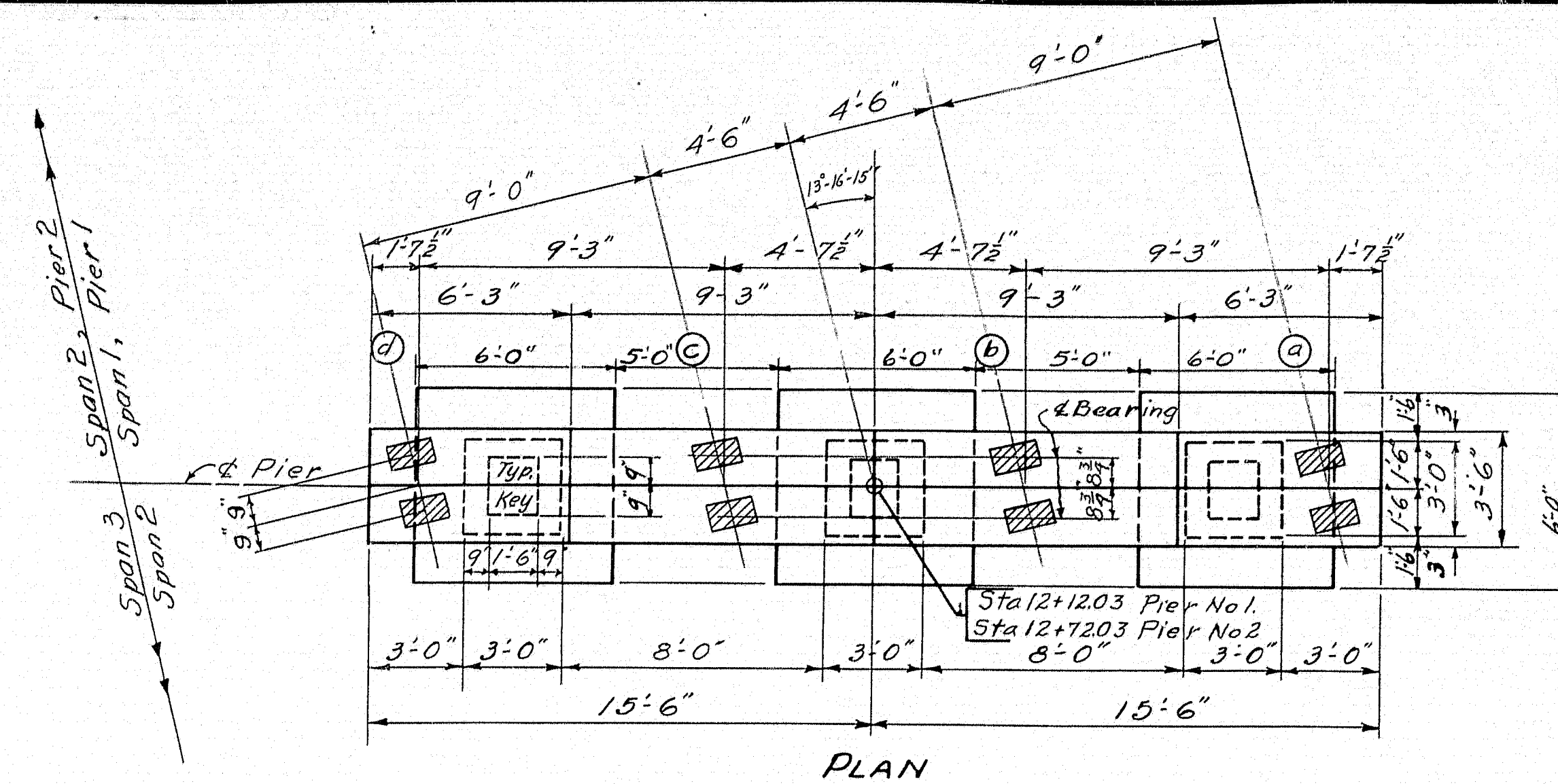
IN THE TOWN OF

SIDNEY

KENNEBEC COUNTY

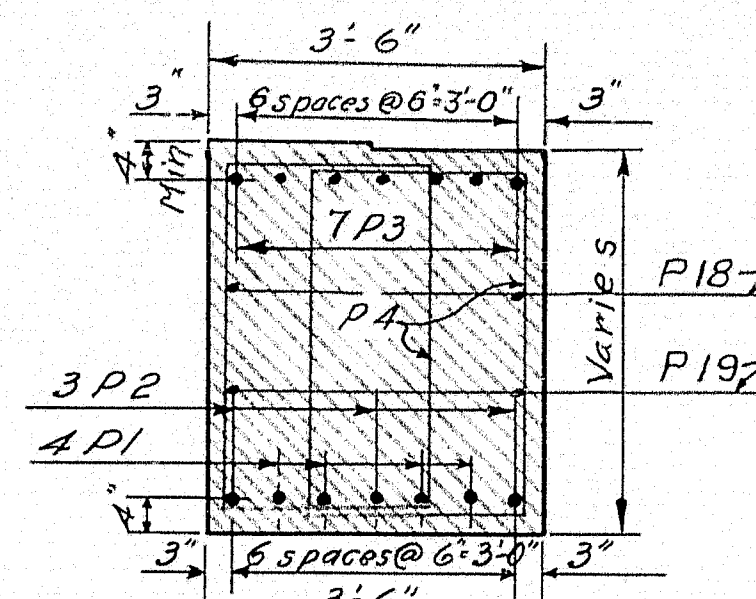
PILE PLANS - ABUTMENTS

SHEET 13 OF 22 AUGUSTA, MAINE MAY 1958

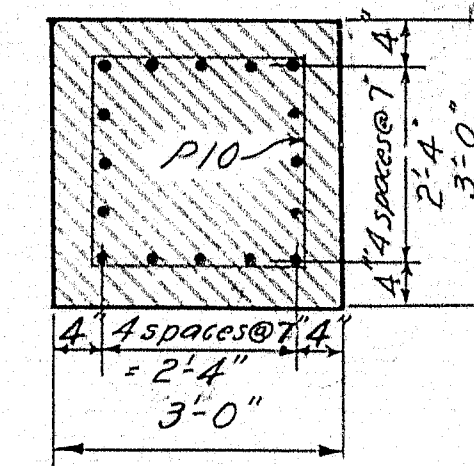


PLAN

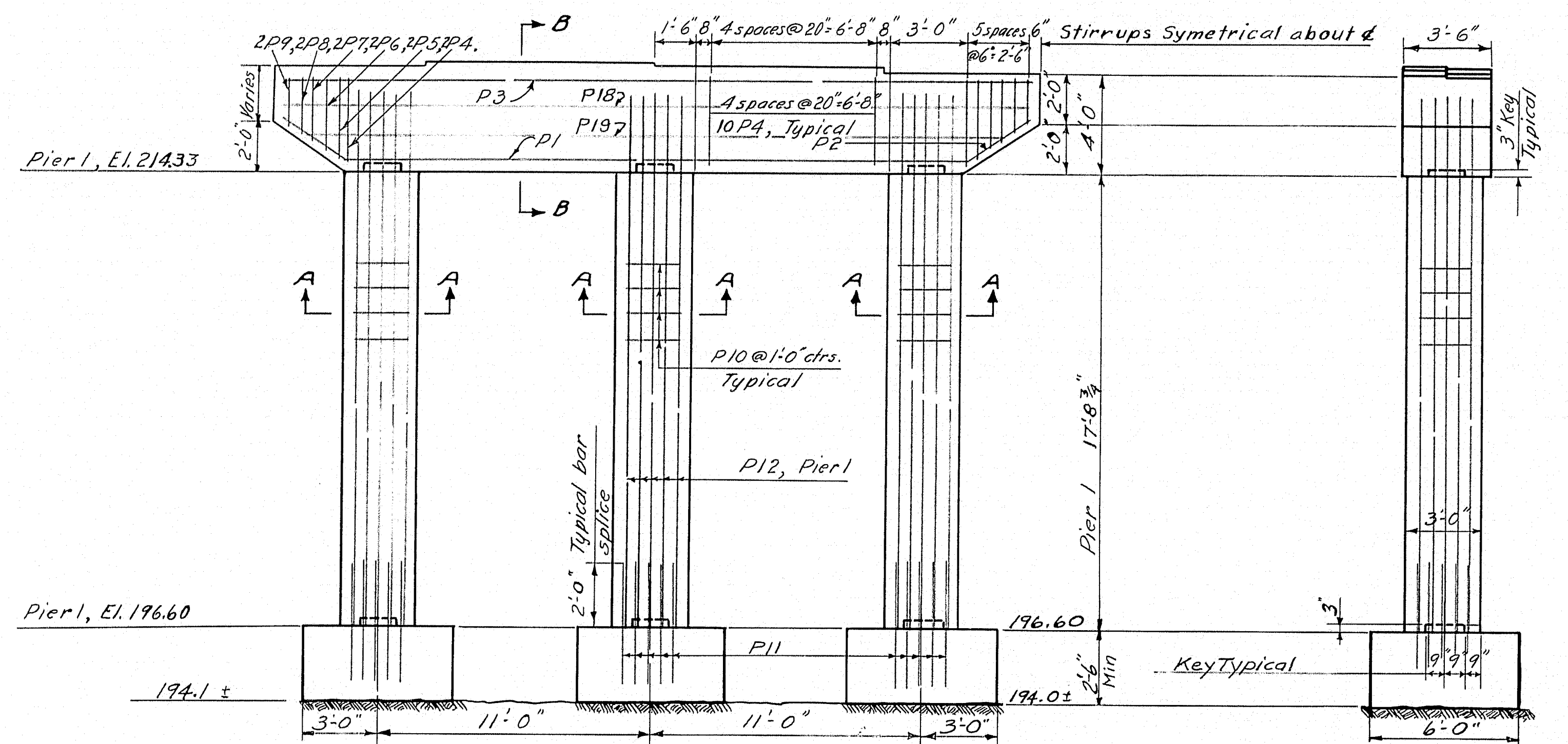
Bearing Area Elevations					
Location	d	c	b	a	
Pier 1					
Span 1	218.49	218.92	218.89	218.40	
Span 2	218.42	218.58	218.55	218.33	
Pier 2					
Span 2	217.26	217.41	217.37	217.14	
Span 3	217.52	217.65	217.61	217.39	



SECTION B-B
Typical All Pier Caps



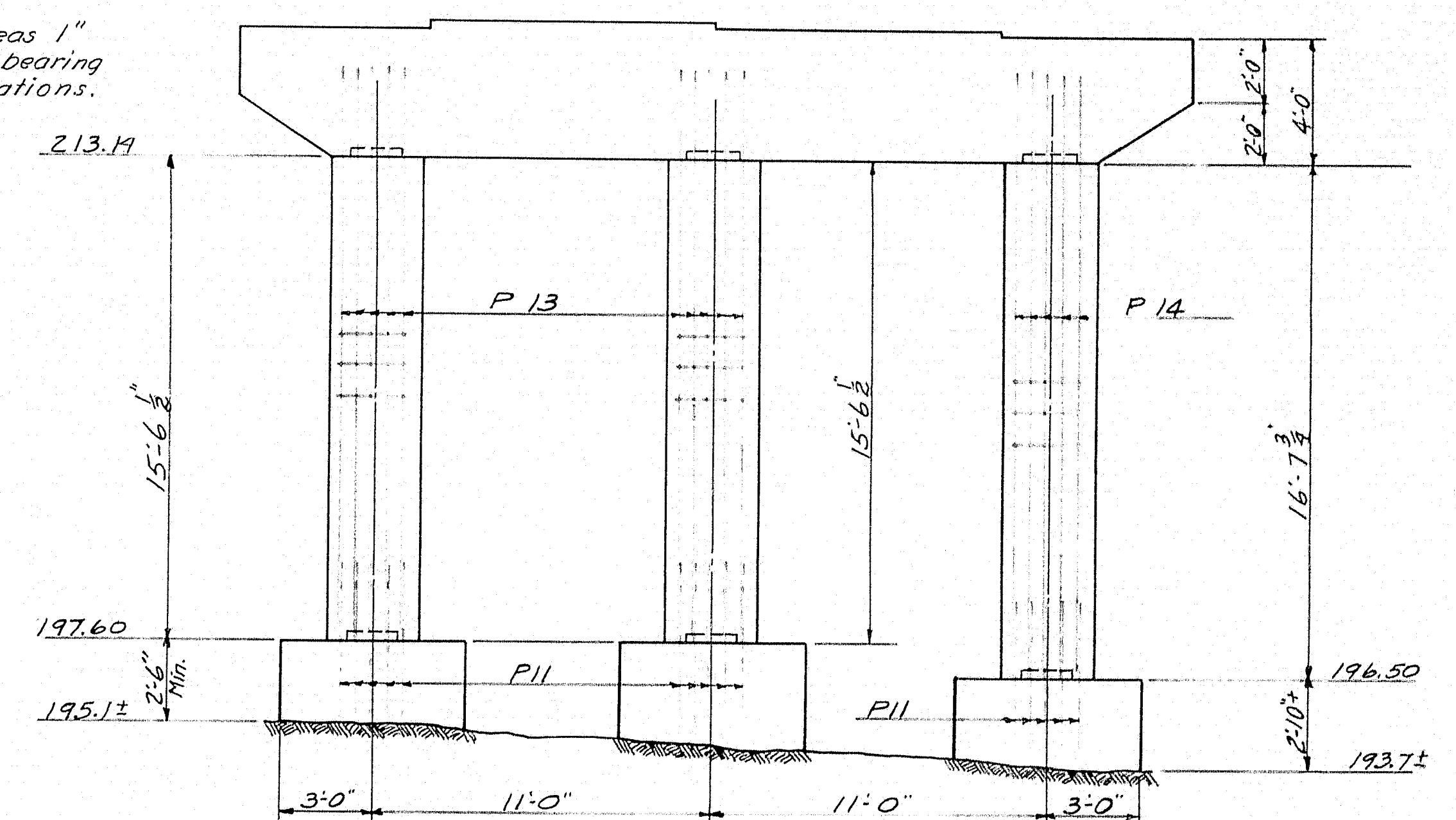
SECTION A-A
Typical All Pier Columns



ELEVATION
PIER #1

END ELEVATION
Typical

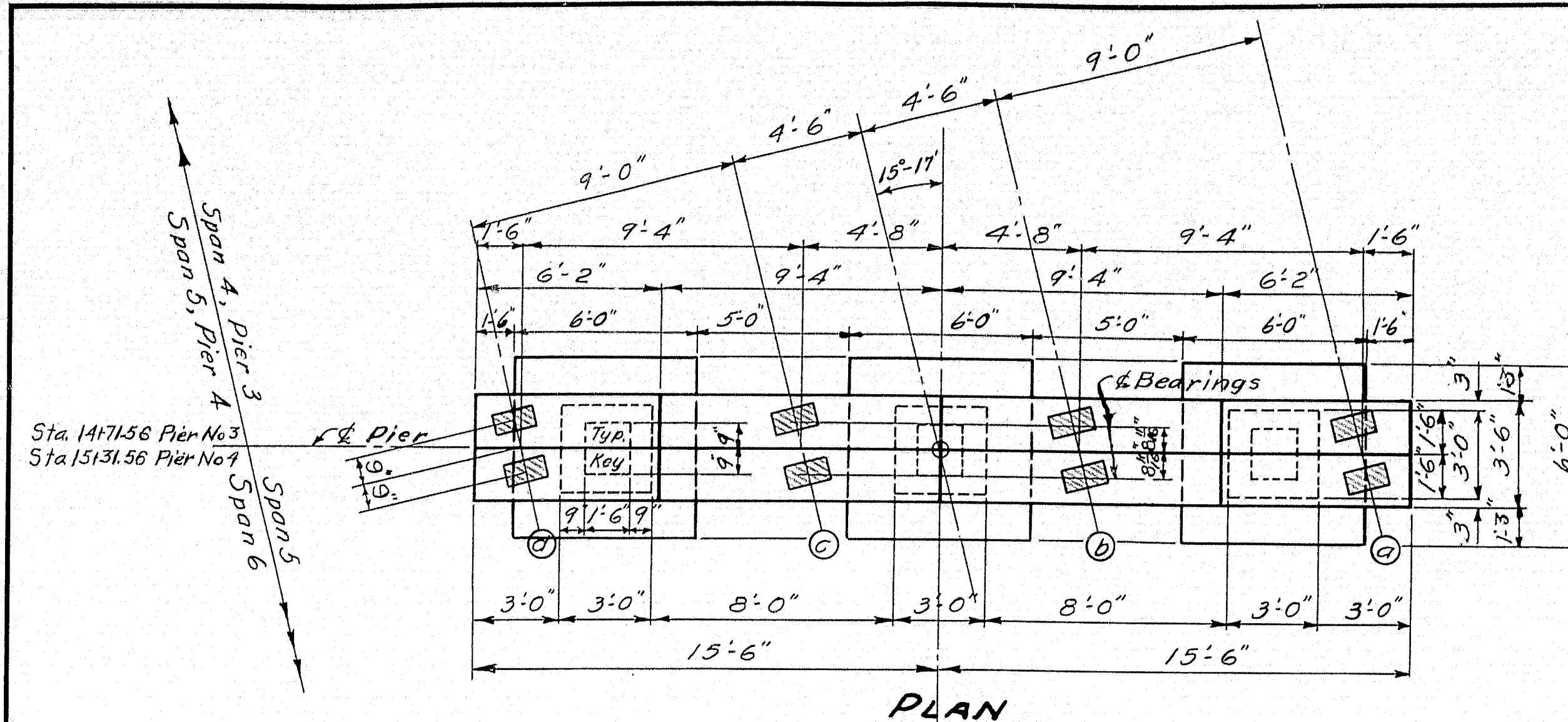
NOTE:- Dress bearing areas 1" larger all around than bearing plates and to exact elevations.



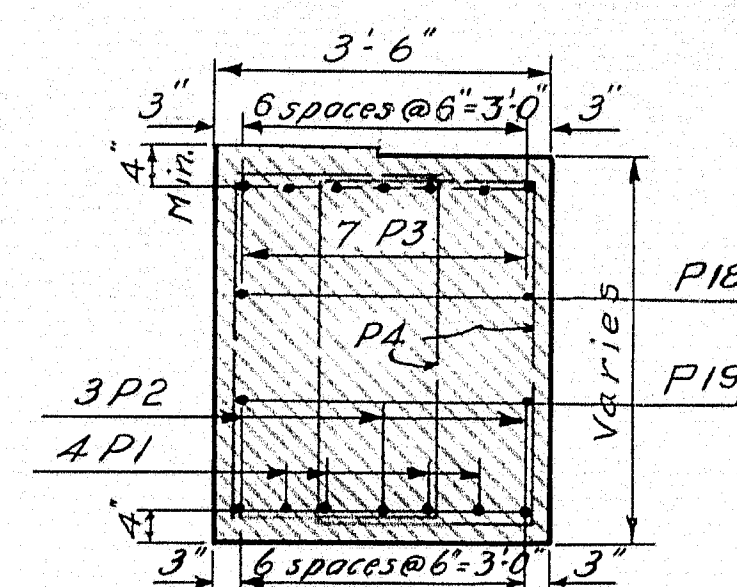
ELEVATION
PIER #2

Foundation Pressures, 5 Tons/sq.ft. ~ Max. for all Piers.

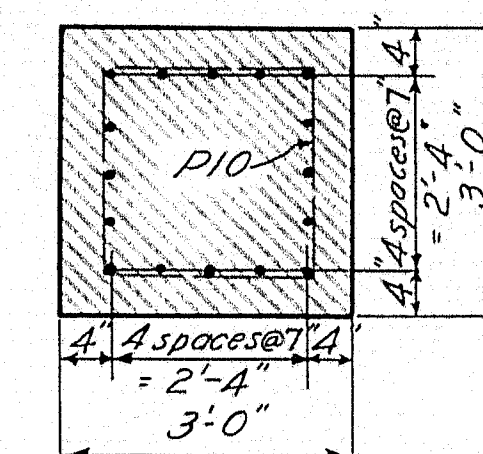
DESIGN - C.M.M.	BRIDGE NO.
TRACE - S.A.V.A.E.	SURVEY -
CHECK - C.S.A.	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
LYONS ROAD BRIDGE	
OVER	
INTERSTATE HIGHWAY	
IN THE TOWN OF	
SIDNEY	
KENNEBEC COUNTY	
PIERS NO. 1 & 2	
SHEET 14 OF 22 AUGUSTA, MAINE MAY 1958	



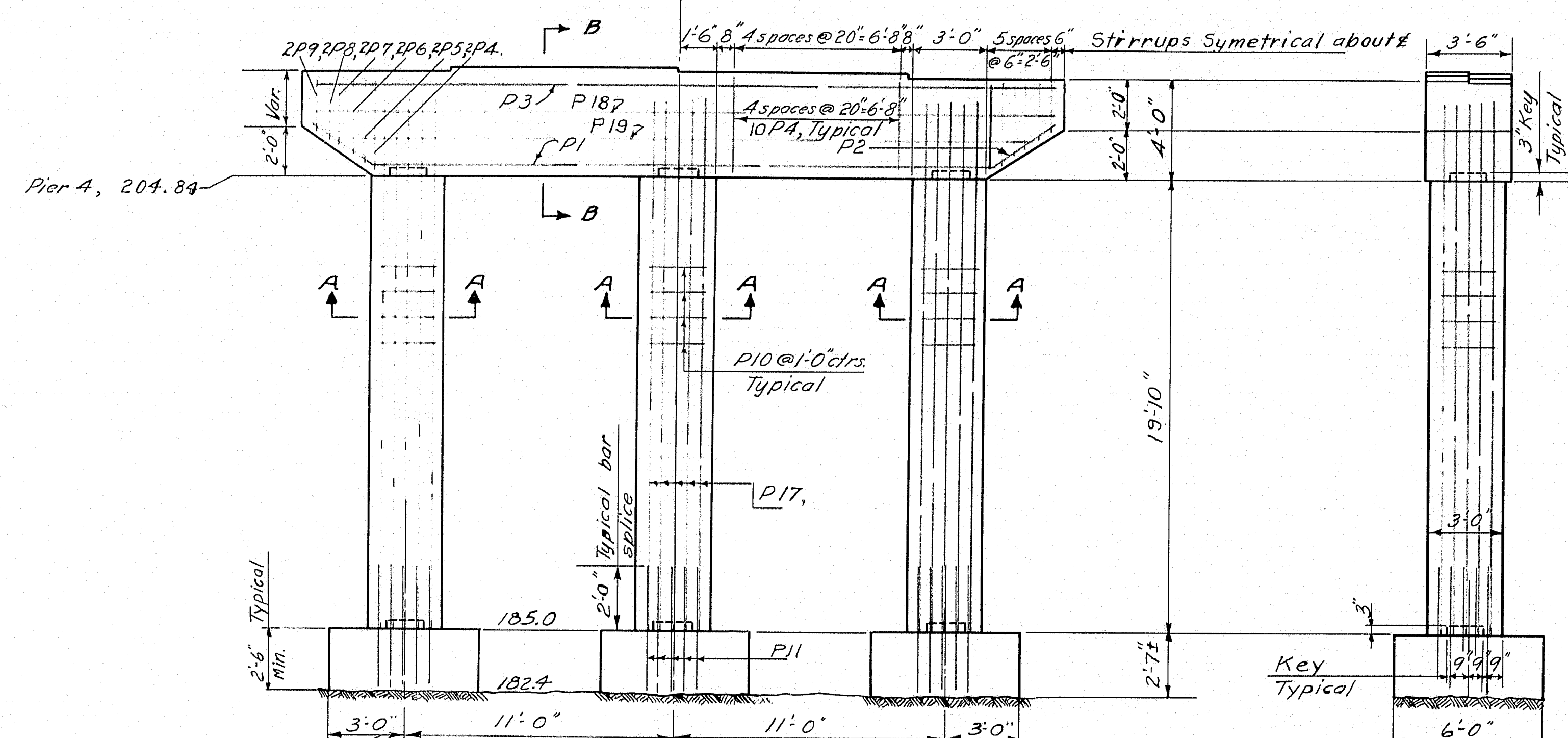
PLAN



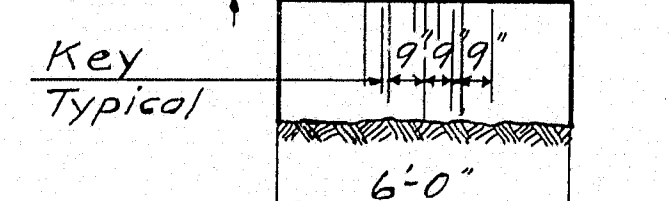
SECTION B-B
Typical All Pier Caps



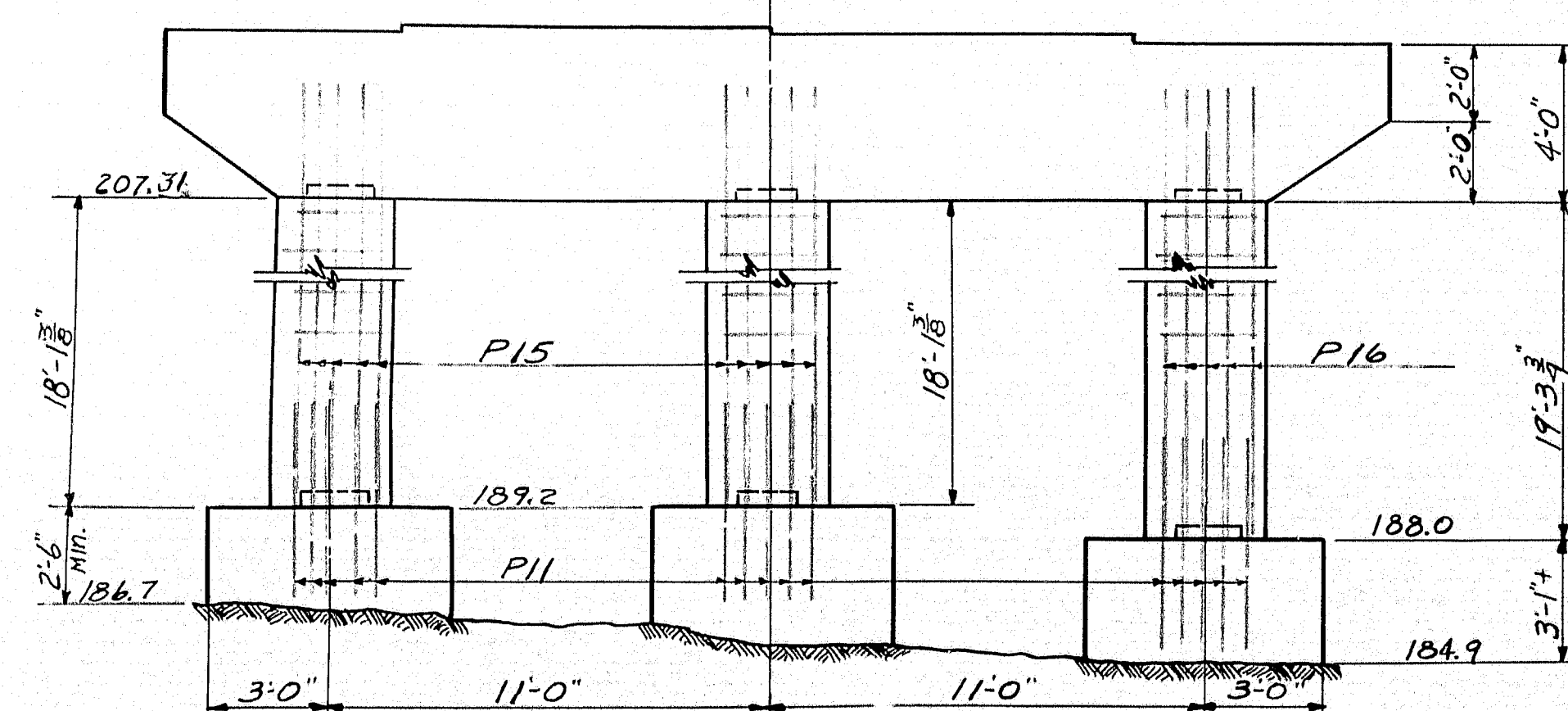
SECTION A-A
Typical All Pier Columns



ELEVATION
PIER #4



END ELEVATION



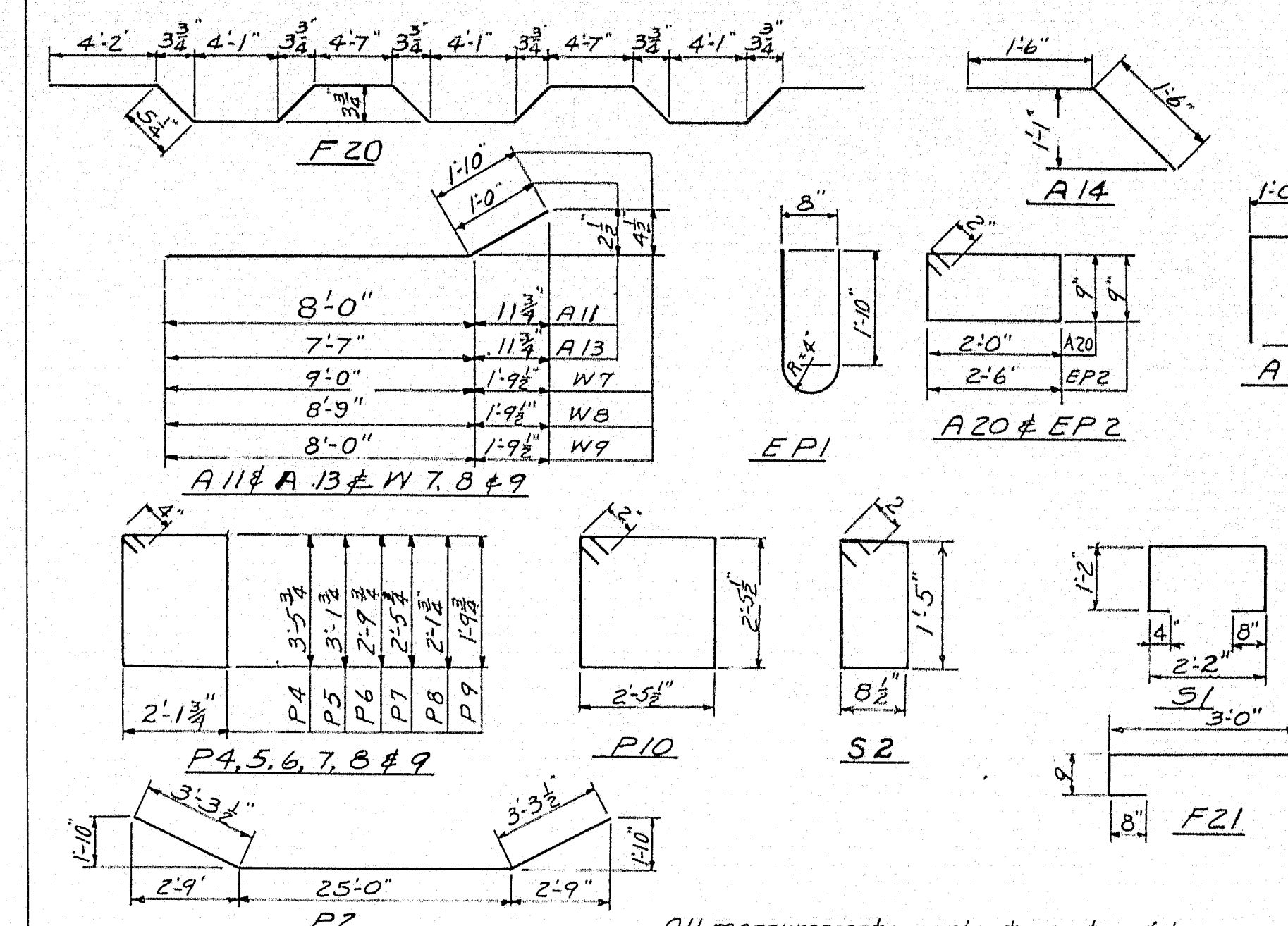
ELEVATION
PIER #3

NOTE:- Dress bearing areas 1" larger all around than bearing plates and to exact elevations.

STRAIGHT BARS

Mark	Size	No.	Length	Location
F1	#5	768	31'-8"	Transverse All Spans
F2	#5	24	2'-7"	" over backwalls
F3	#4	39	23'-0"	Longitudinal Slab Span 1
F4	#4	8	21'-10"	" " " 1
F5	#4	133	30'-6"	" " " 2, 145
F6	#4	39	16'-0"	" " " 3
F7	#4	8	13'-10"	" " " 3
F9	#4	39	16'-6"	" " " 6
F10	#4	8	15'-4"	" " " 6
F11	#4	8	29'-4"	" " " 4
F12	#4	68	3'-6"	Over Backwalls
F14	#4	282	30'-0"	Longitudinal all spans
AS1	#6	376	14'-6"	Longitudinal Approach Slab
AS2	#5	120	24'-5"	Transverse " "
W1	#5	80	10'-3"	Wings, Abuts. #1 & 2
W2	#5	36	9'-3"	" " " 3
W3	#5	36	8'-3"	" " " 4
W4	#5	42	10'-9"	" " " 1 & 3
W5	#5	22	10'-6"	" " " 2
W6	#5	18	9'-3"	" " " 4
P1	#7	16	25'-0"	Pier Caps
P3	#9	28	30'-6"	" "
P11	#8	192	1'-0"	Pier Footings
P12	#8	48	19'-9"	Pier #1 - 3 Columns
P13	#8	32	17'-6"	" " 2 - 2 "
P14	#8	16	18'-6"	" " 2 - 1 "
P15	#8	32	20'-0"	" " 3 - 2 "
P16	#8	16	21'-3"	" " 3 - 1 "
P17	#8	48	21'-6"	" " 4 - 3 "
P18	#5	8	30'-6"	Pier Caps
P19	#5	8	28'-0"	" "
C1	#4	40	16'-3"	Curbs, Spans 1 & 4
C2	#4	50	18'-3"	" " 2 & 5
C3	#4	60	21'-0"	" " 2, 3, 4 & 5
C4	#4	10	22'-6"	" " 4
F13	#5	72	8'-8"	Diaphragms

REINFORCING STEEL SCHEDULE



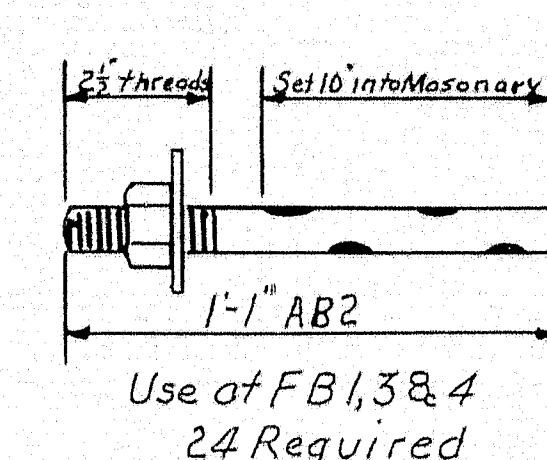
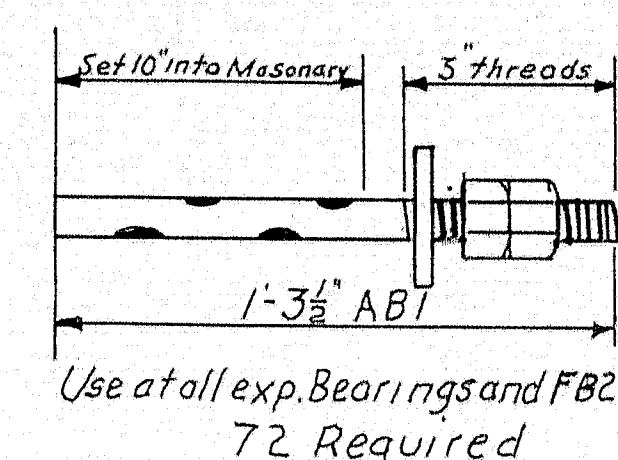
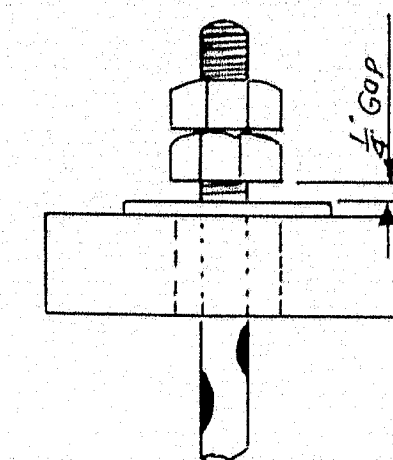
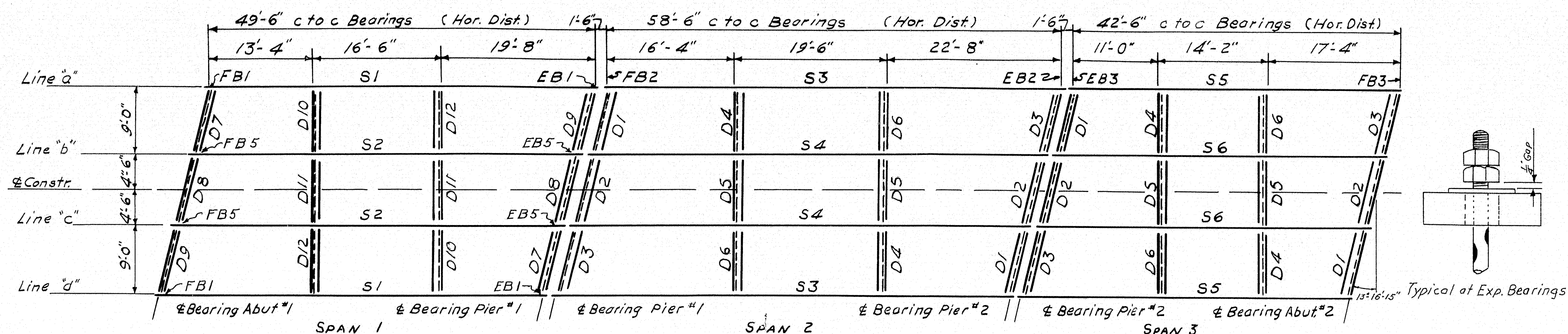
STRAIGHT BARS

Mark	Size	No.	Length	Location
A1	#6	64	6'-0"	Abutments
A2	#6	31'-6"	"	"
A3	#6	16	13'-4"	Abutments #1 & 2
A4	#6	8	12'-6"	" " " 3
A5	#6	8	11'-6"	" " " 4
A6	#6	30	3'-5"	" " " 1, 2 & 3
A7	#6	10	3'-2"	" " " 4
A8	#4	64	3'-10"	" " " "
A9	#6	88	4'-6"	" " " "
A10	#6	48	5'-0"	" " " "
A15	#4	24	31'-0"	Abutment back walls
A16	#4	32	10'-3"	Curbs, Abuts. #1 & 2
A17	#4	16	9'-3"	" " " 3
A18	#4	16	8'-3"	" " " 4
P2	#7	12	31'-7"	Pier Caps
P4	#5	96	11'-11"	Pier Caps
P5	#5	16	11'-3"	" "
P6	#5	16	10'-7"	" "
P7	#5	16	9'-11"	" "
P8	#5	16	9'-3"	" "
P9	#5	16	8'-7"	" "
P10	#4	218	10'-2"	Pier Columns
S1	#4	436	5'-6"	Stirrups, Curbs
S2	#4	436	4'-7"	" "
F20	#5	381	32'-5"	Transverse All Slabs
F21	#5	120	4'-5"	Diaphragms

DESIGN - WISWALL
TRACE - SAVAGE
CHECK - E. J. A.

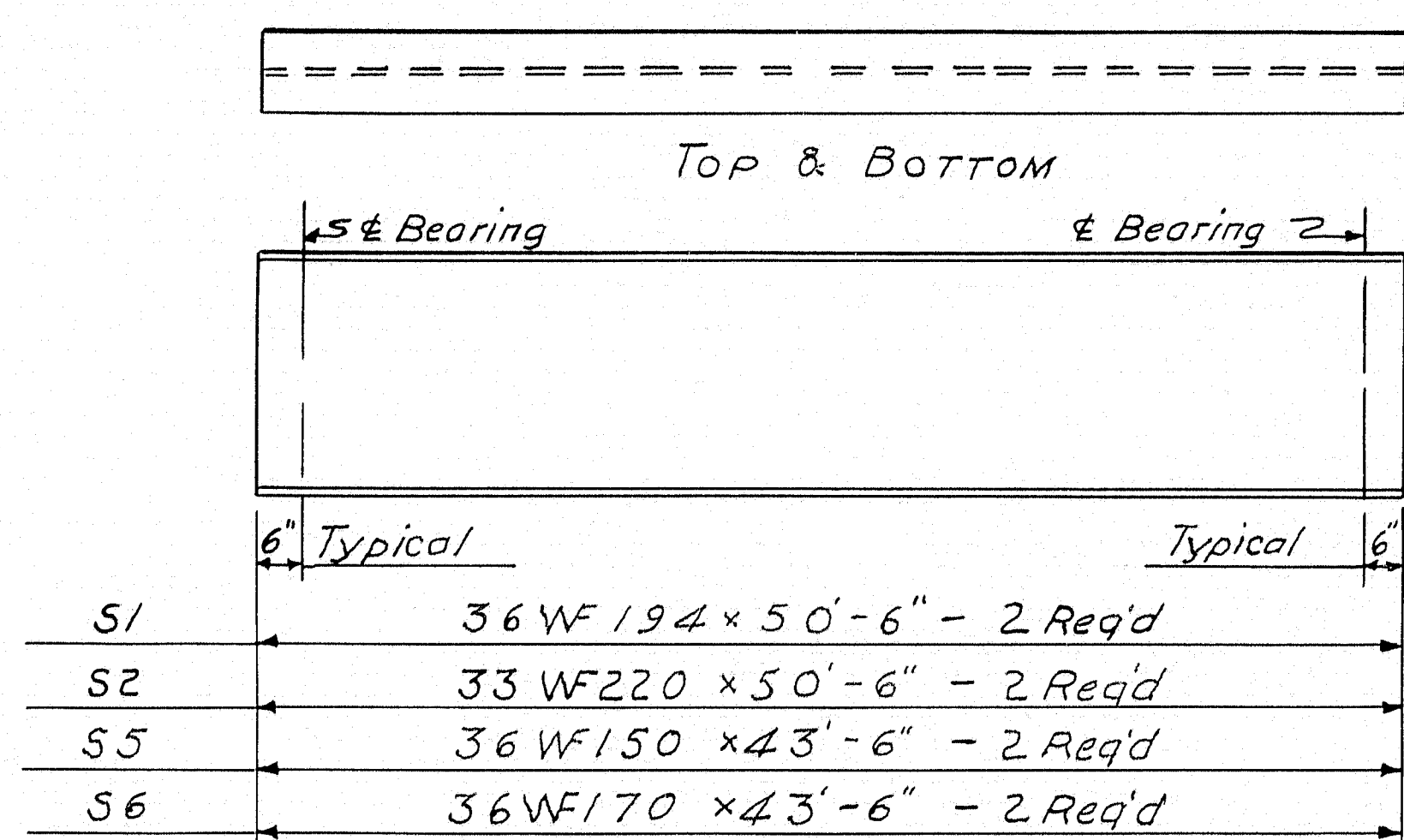
BRIDGE NO. 1-95-6
SURVEY - 1-95-6
PLAT - 1-95-6

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
LYONS ROAD BRIDGE
OVER
INTERSTATE HIGHWAY
IN THE TOWN OF
SIDNEY
KENNEBEC COUNTY
REINFORCING STEEL & PIERS NO. 3 & 4
SHEET 15 OF 22 AUGUSTA, MAINE MAY 1958



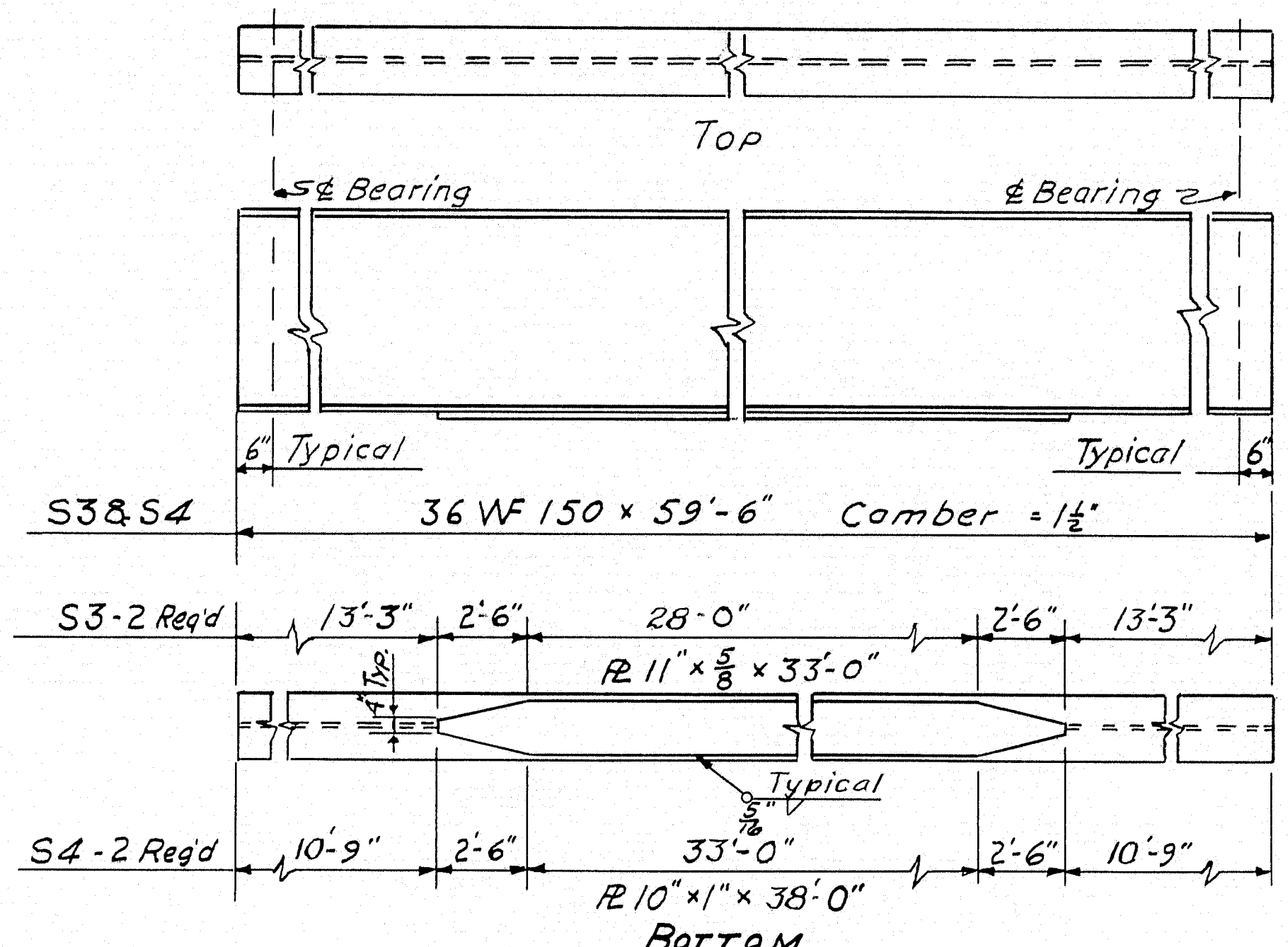
ANCHOR BOLT DETAILS

1" swaged anchor bolts with 1 hex nut and 2 1/2 x 1/4" washer at fixed bearings, and with 2 hex nuts and 5 x 2 1/2" plate washer at expansion bearings.

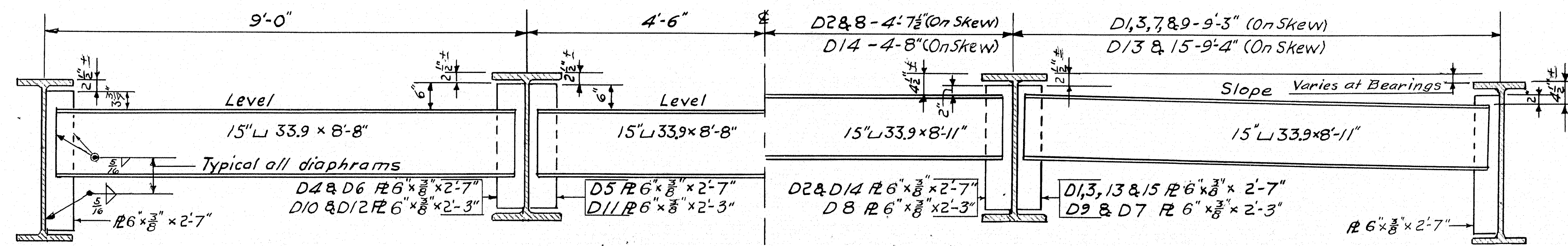


DETAIL STRINGERS - SPANS 1 & 3

No Camber required, but any natural camber is to be placed up.



DETAIL STRINGERS - SPAN 2



D6 - D12
D4-D10 Opposite Hand
D4-D6-10 Each Required
D10-D12-2 Each Required

D11-D5
Sym. about &
D11-2 Required
D5-10 Required

D8-D2-D14
Sym. about & (except slopes)
D8-2 Required
D2-4 Required
D14-6 Required

D1-D7-D-13
D1-D3-D9 Opposite Hand
D1-D3-4 Each Required
D7-D9-2 Each Required
D13-D15-6 Each Required

DIAPHRAM DETAILS

Center Channels between Stringers

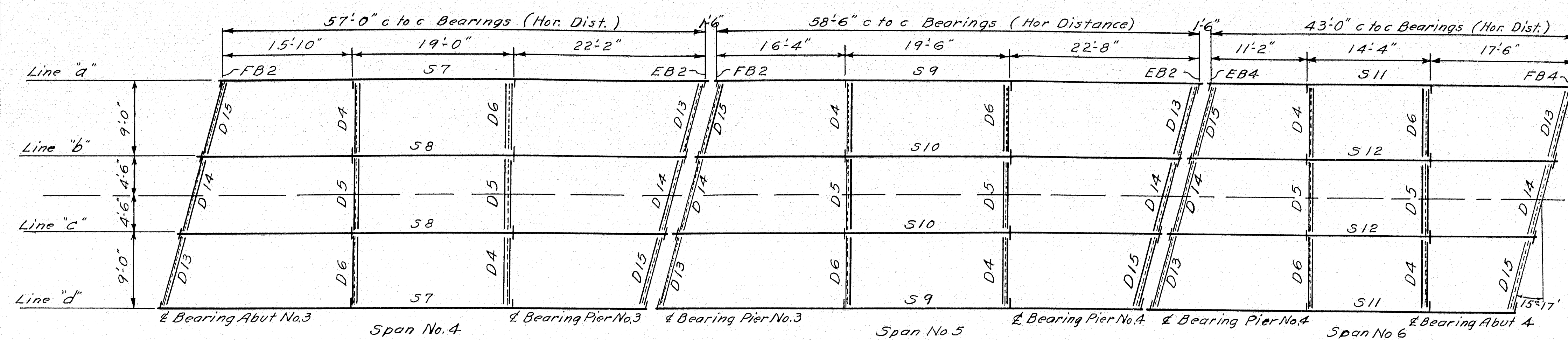
SPECIFICATIONS-

Design and Detail - A.A.S.H.O. 1957
Loading - H20-S 16-44, as modified for Interstate Highways.
Fabrication and Erection - State of Maine,
State Highway Commission, Standard
Specifications, Highways and Bridges.
Revision of January 1956.

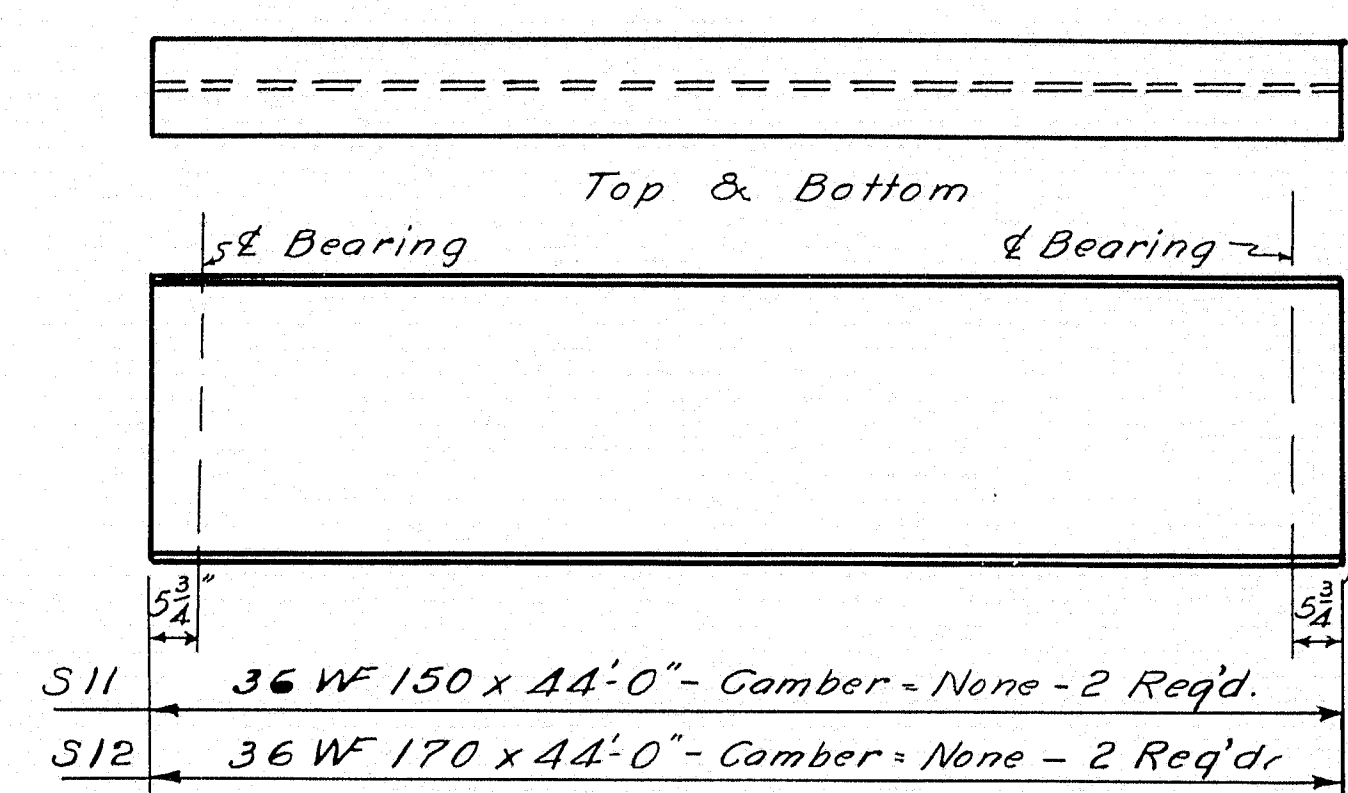
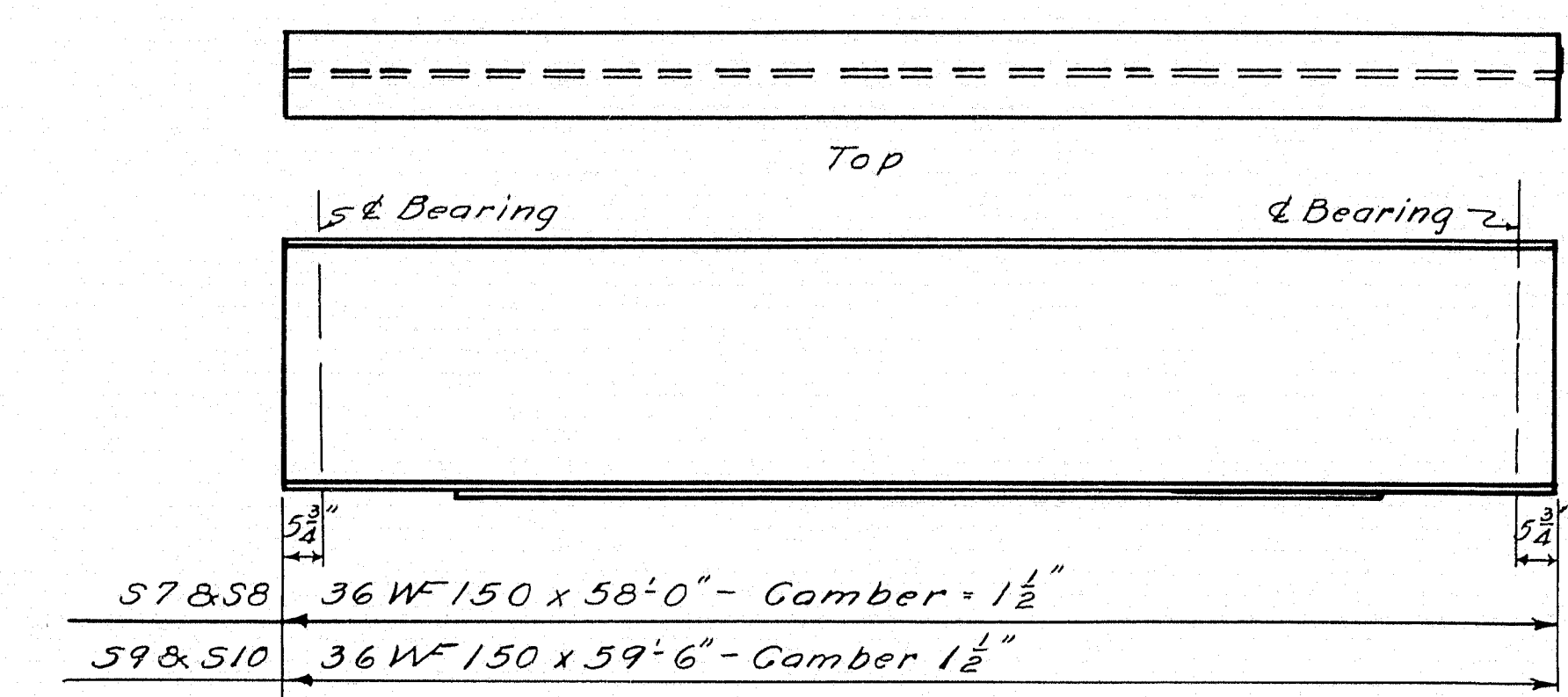
NOTES:-

Diaphragms and Anchor Bolts shown apply for bridges over Southbound and Northbound Lanes
For Erection Diagram over Northbound Lane see Sheet No. 17
For Bearing Details see Sheet No. 17
For beams with welded cover plates, both beams and cover plates shall be structural weldable steel A.S.T.M. designation A373

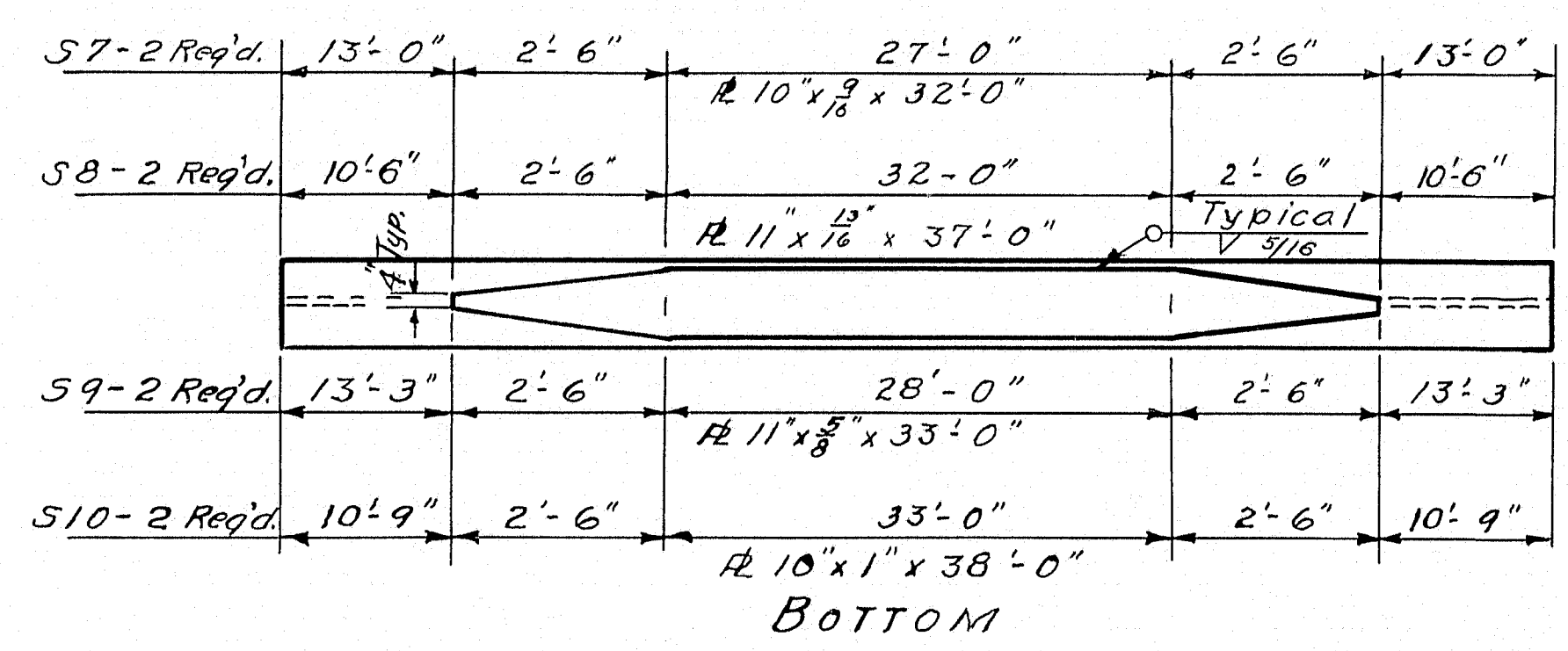
DESIGN - C.W.W. Detail P.L.L. TRACE - G. ALLEN CHECK - C.W.W.	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
LYONS ROAD BRIDGE	
OVER	
INTERSTATE HIGHWAY	
IN THE TOWN OF	
SIDNEY	
KENNEBEC COUNTY	
STRUCTURAL STEEL & ERECTION DIAGRAM	
SHEET 16 OF 22 AUGUSTA, MAINE MAY 1958	



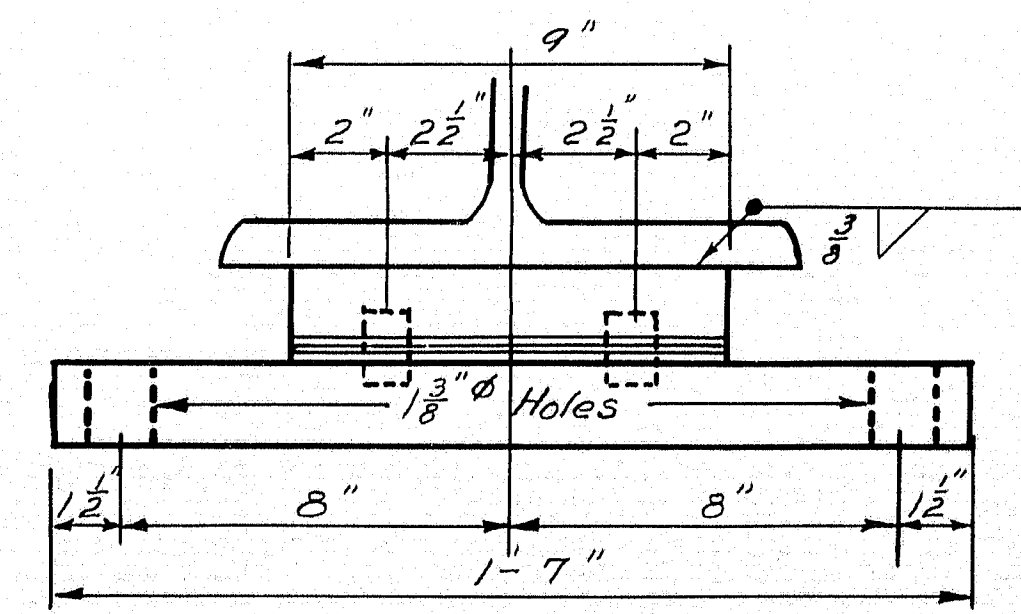
ERECTOR DIAGRAM OVER NORTHBOUND LANE



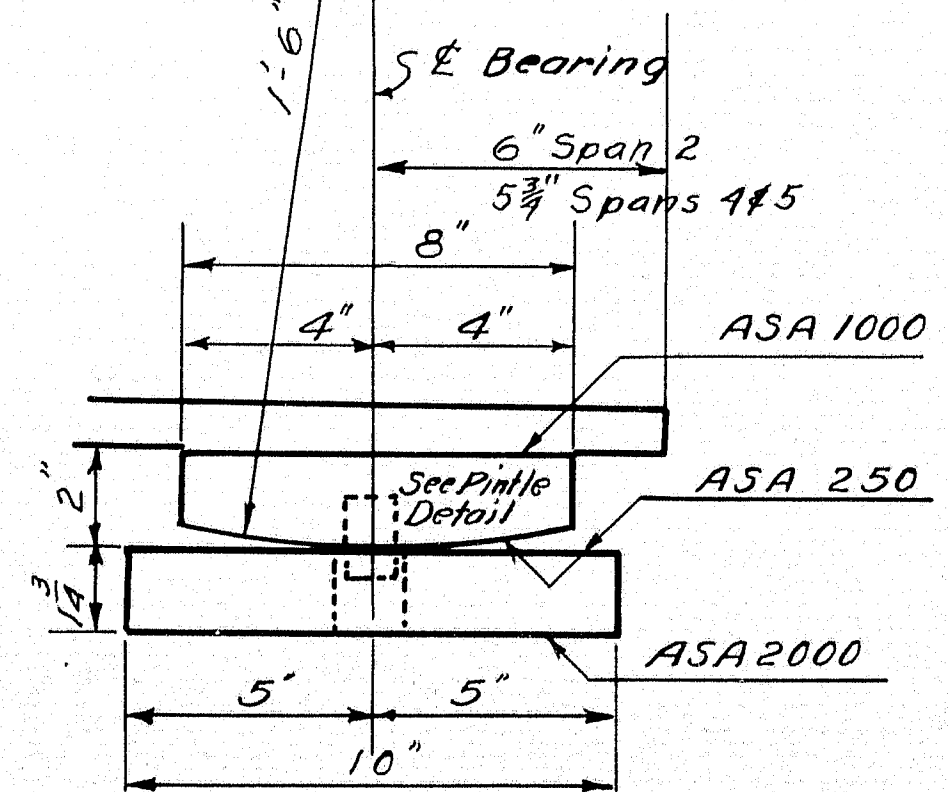
DETAILS STRINGERS - SPAN 6
Any natural camber is to be placed up.



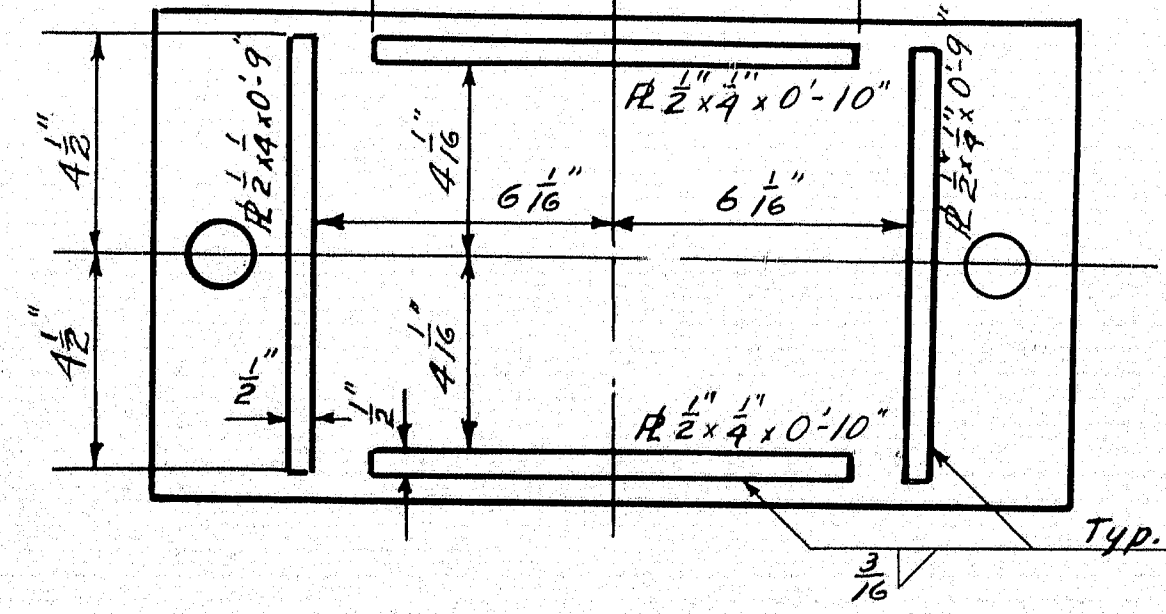
DETAILS STRINGERS - SPANS 4 & 5



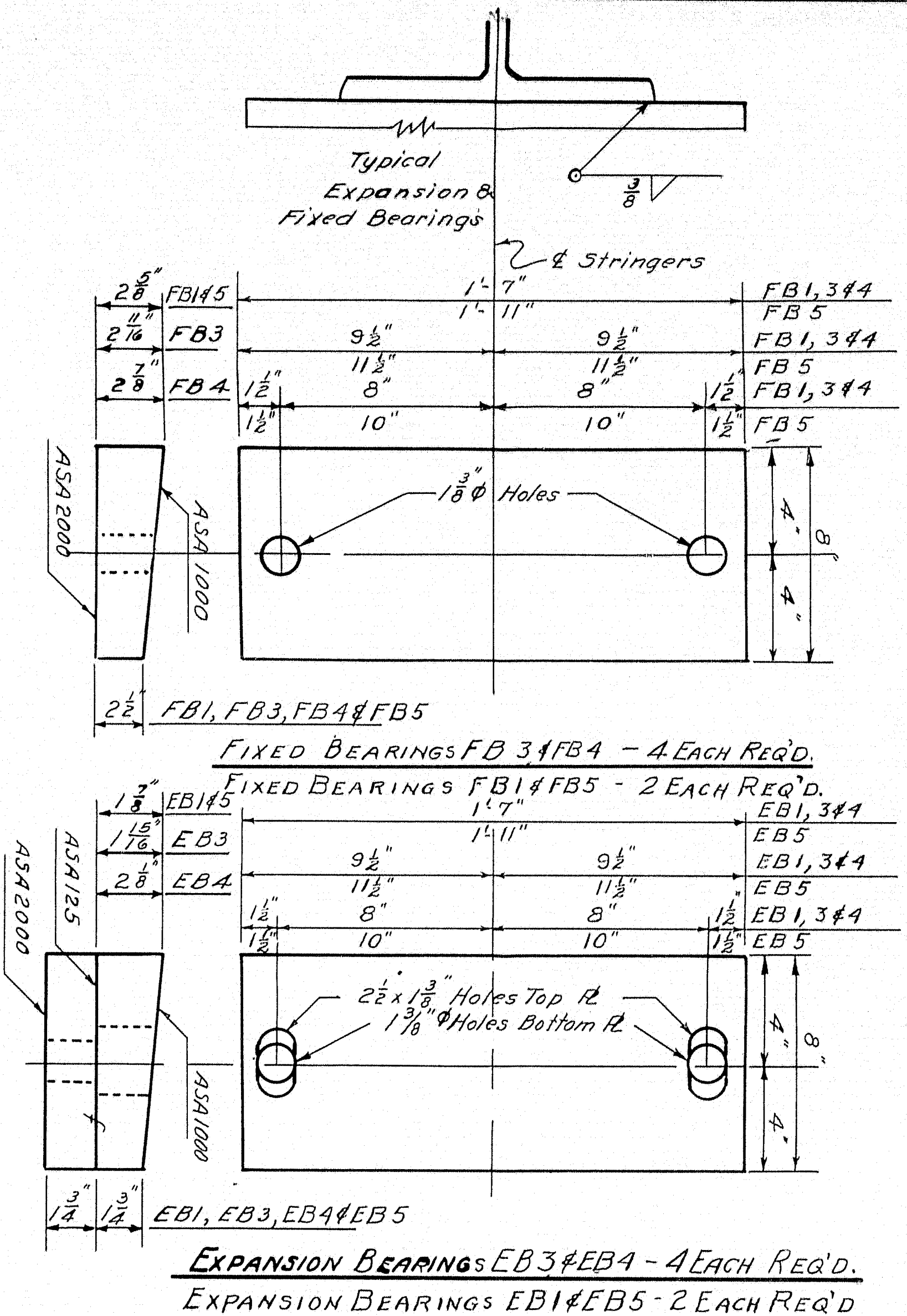
FIXED BEARING FB2
12 Required



EXPANSION BEARING EB2
12 Required

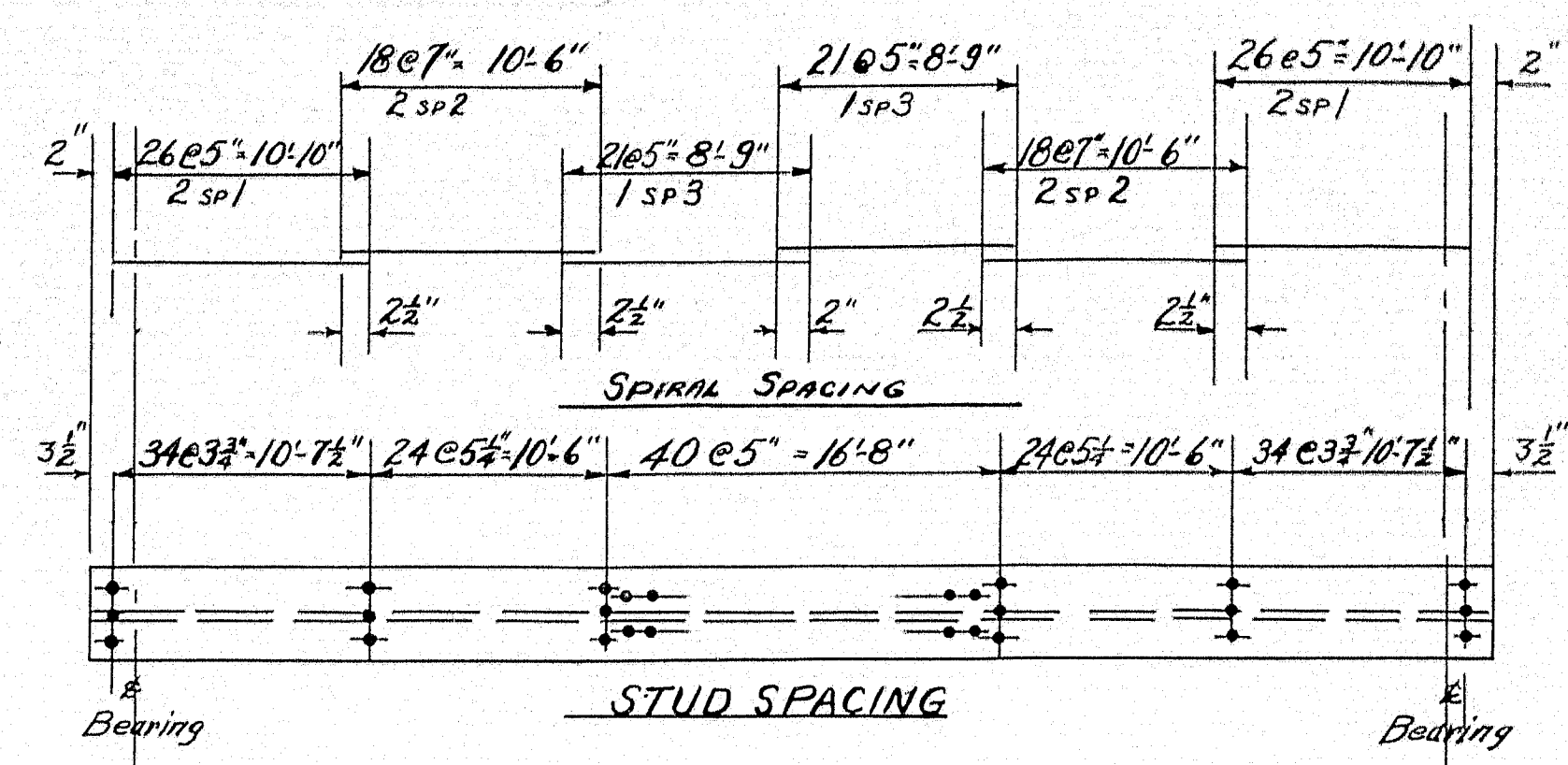


PINTLE DETAIL

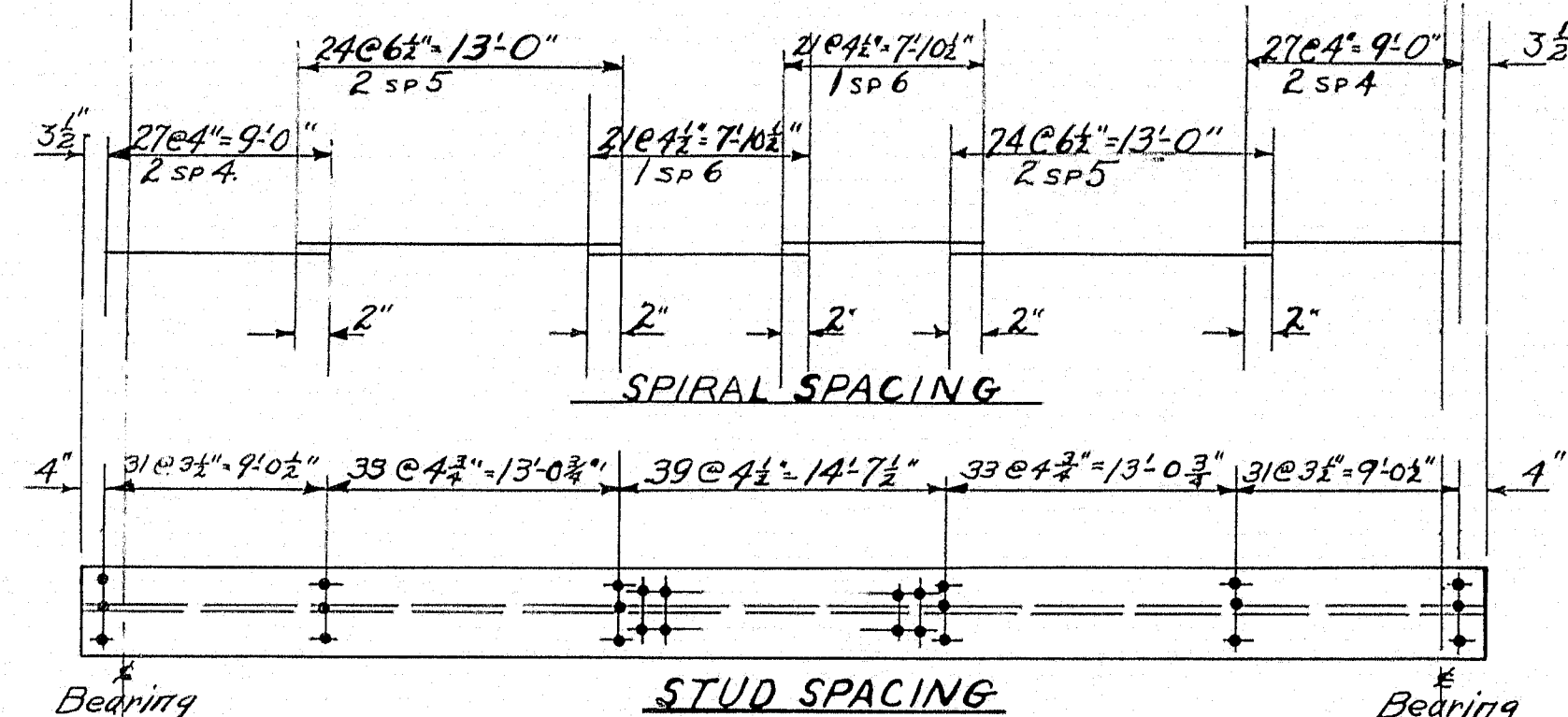


NOTES:-
For General Notes and Specifications see Sheet No. 16
For Diaphragm Details see Sheet No. 16
For Anchor Bolt Details see Sheet No. 16

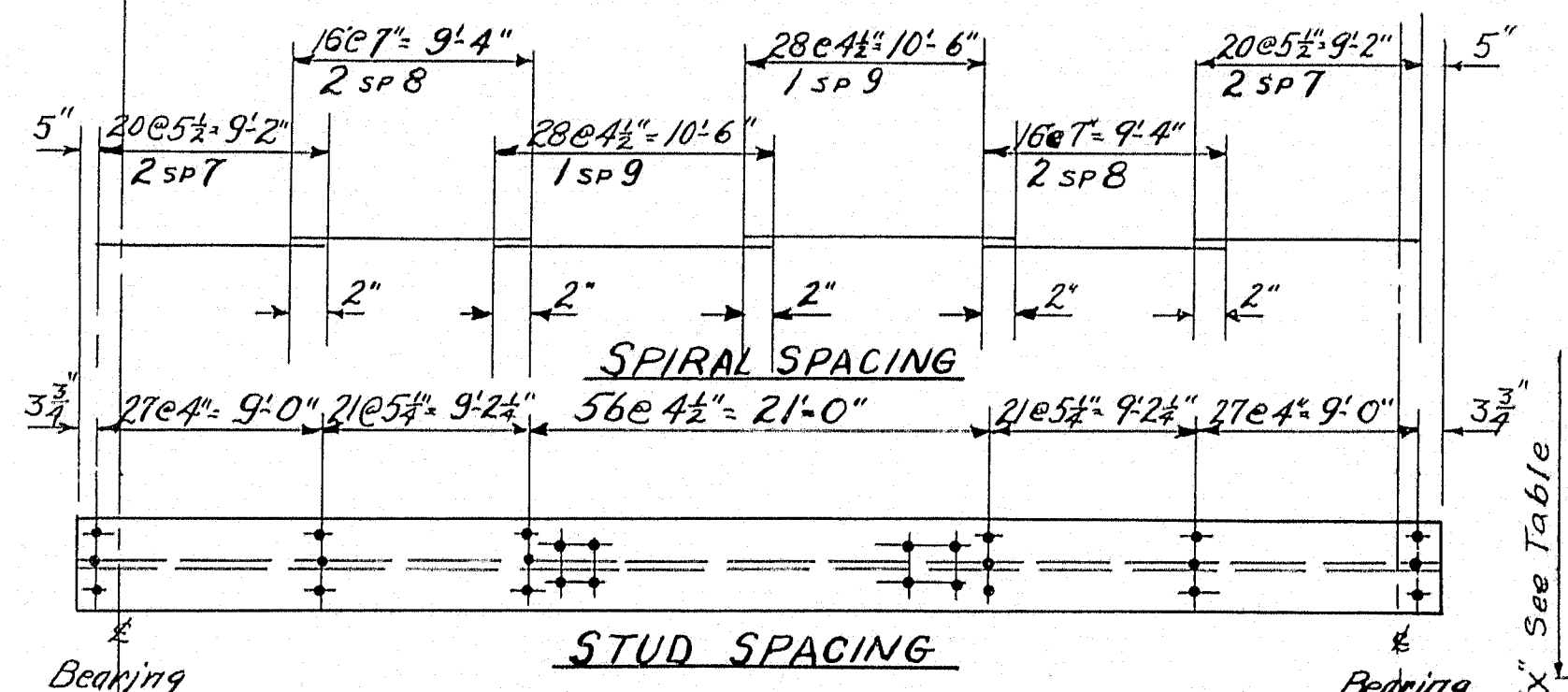
DESIGN - C.F.W.
TRACE & ALLOW & SAYERS
CHECK - C.F.W.
BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
LYONS ROAD BRIDGE
OVER
INTERSTATE HIGHWAY
IN THE TOWN OF
SIDNEY
KENNEBEC COUNTY
STRUCTURAL STEEL & ERECTOR DIAGRAM
SHEET 17 OF 22 AUGUSTA, MAINE MAY 1958



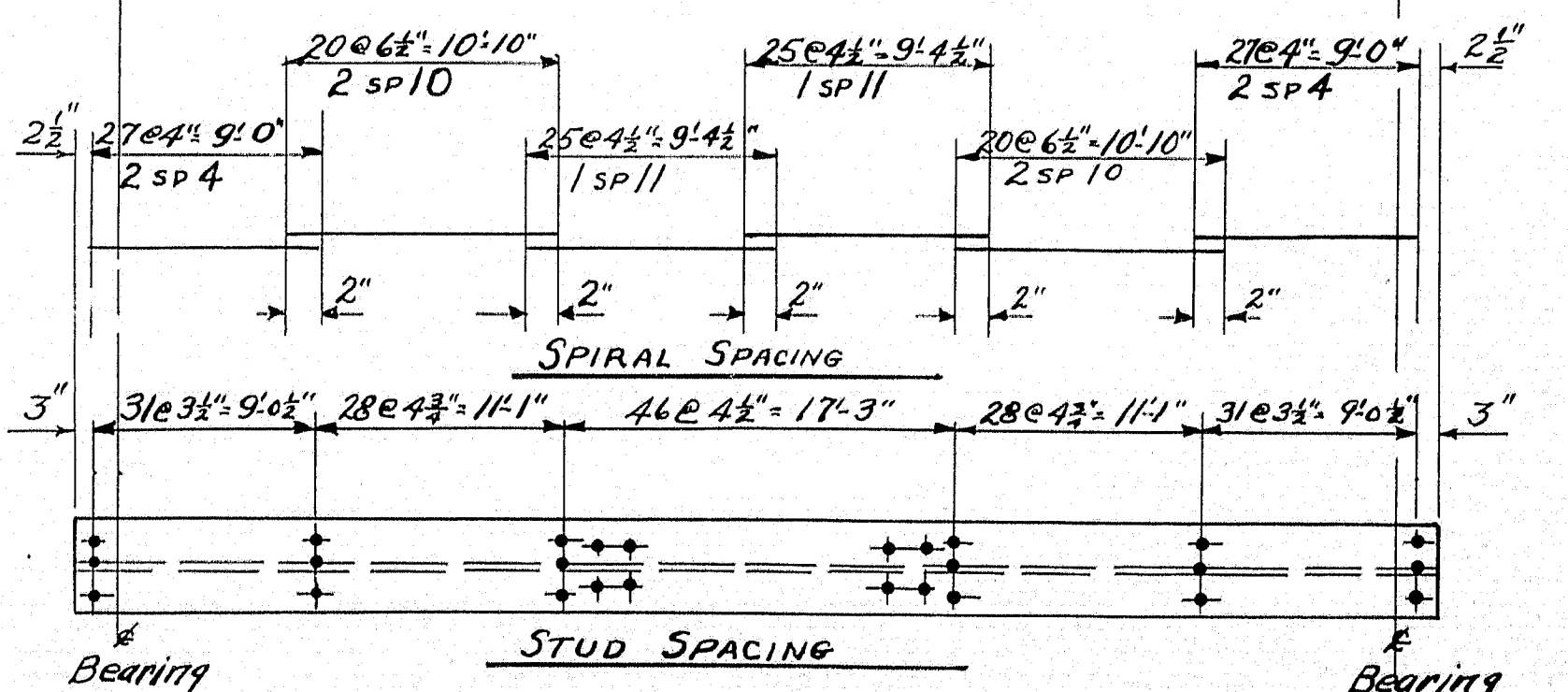
ALTERNATE STUD OR SPIRAL SPACING FOR SPANS 2 & 5
EXTERIOR STRINGERS



ALTERNATE STUD OR SPIRAL SPACING FOR SPANS 2 & 5
INTERIOR STRINGERS



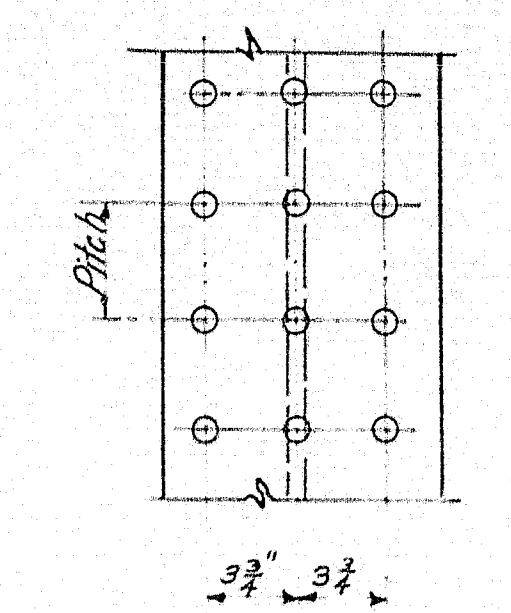
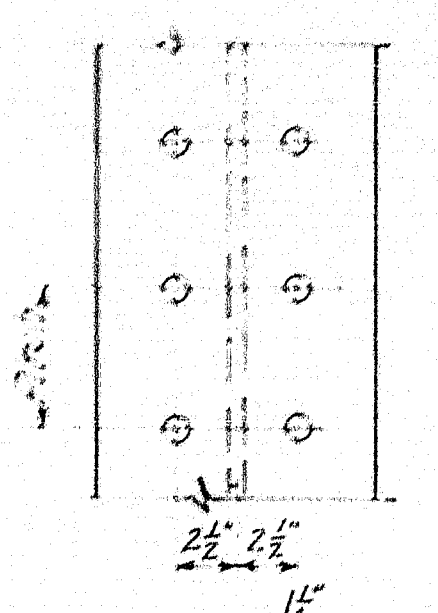
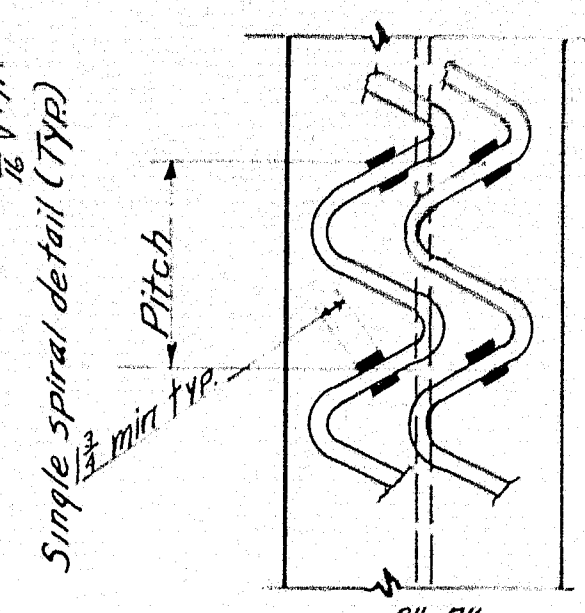
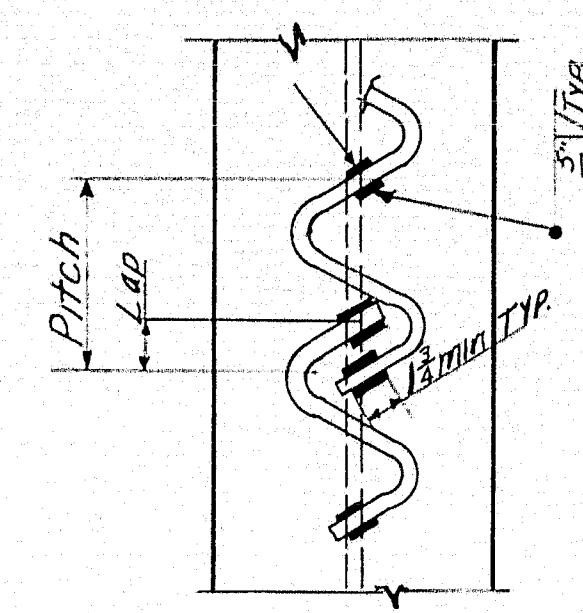
ALTERNATE STUD OR SPIRAL SPACING FOR SPAN 4
EXTERIOR STRINGERS



ALTERNATE STUD OR SPIRAL SPACING FOR SPAN 4
INTERIOR STRINGERS

Mark	No	SPACES	Pitch	Length
SP1	16	26	5"	10'-10"
SP2	16	18	7"	10'-6"
SP3	8	21	5"	8'-9"
SP4	24	27	4"	9'-0"
SP5	16	24	6 1/2"	13'-0"
SP6	8	21	4 1/2"	7'-10 1/2"
SP7	8	20	5 1/2"	9'-2"
SP8	8	16	7"	9'-4"
SP9	4	28	4 1/2"	10'-6"
SP10	8	20	6 1/2"	10'-10"
SP11	4	25	4 1/2"	9'-4 1/2"

Equivalent Spiral Spaces	No	SPACES	Pitch	Total Pitch unit length
SP1	840	34	3 3/4"	10'-7 1/2"
SP2	576	24	5 1/2"	10'-6"
SP3	312	40	5"	16'-8"
SP4	1152	31	3 1/2"	9'-0 1/2"
SP5	792	33	4 1/2"	13'-0 3/4"
SP6	304	39	4 1/2"	14'-1 1/2"
SP7	336	27	4"	9'-0"
SP8	252	21	5 1/2"	9'-2 1/2"
SP9	220	56	4 1/2"	21'-0"
SP10	336	28	4 3/4"	11'-1"
SP11	180	46	4 1/2"	17'-3"

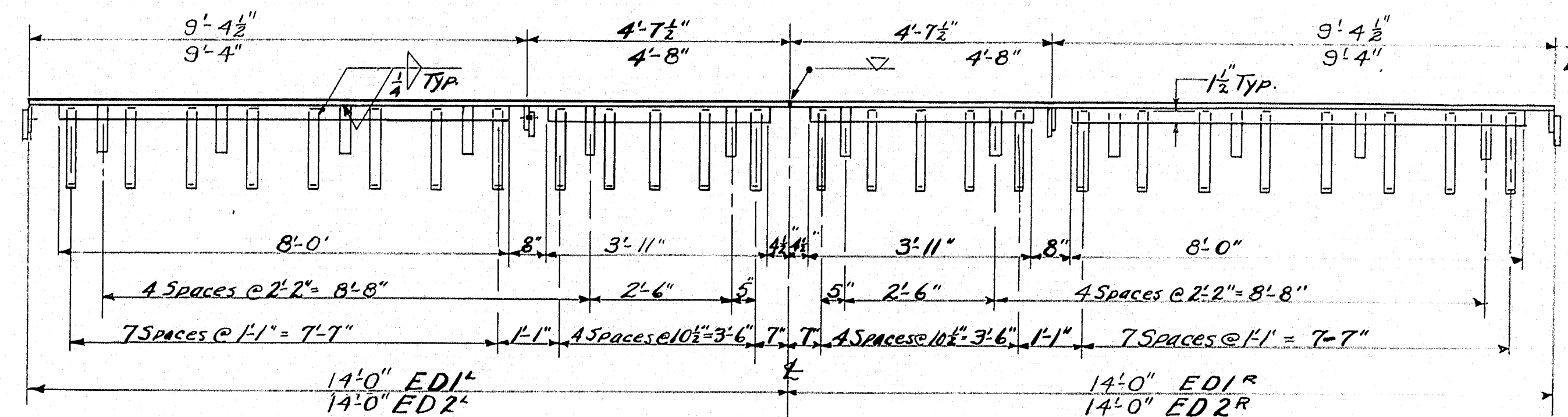


SPIRALS
5/8" φ

STUDS
3/4" x 5"

SHEAR CONNECTORS

Shear connectors may be either welded spirals or automatically end welded studs.



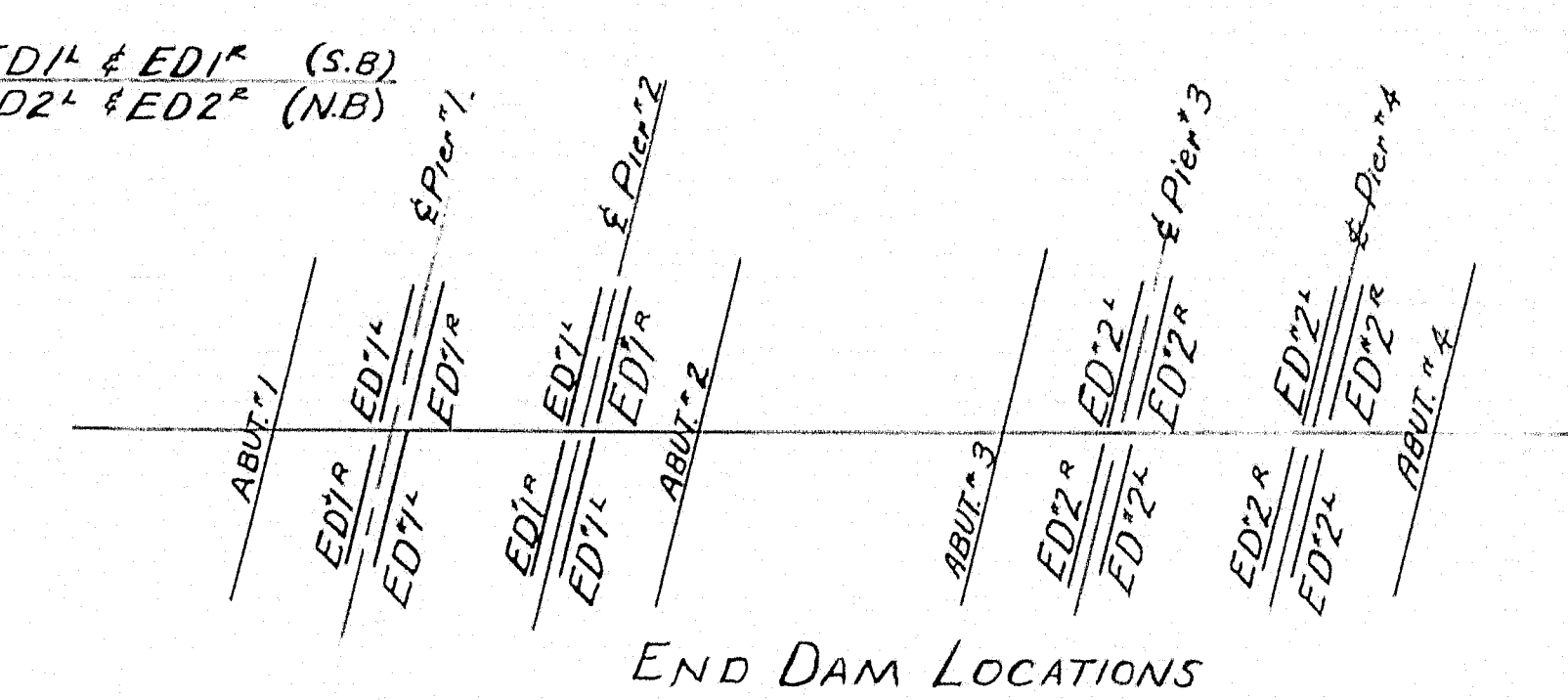
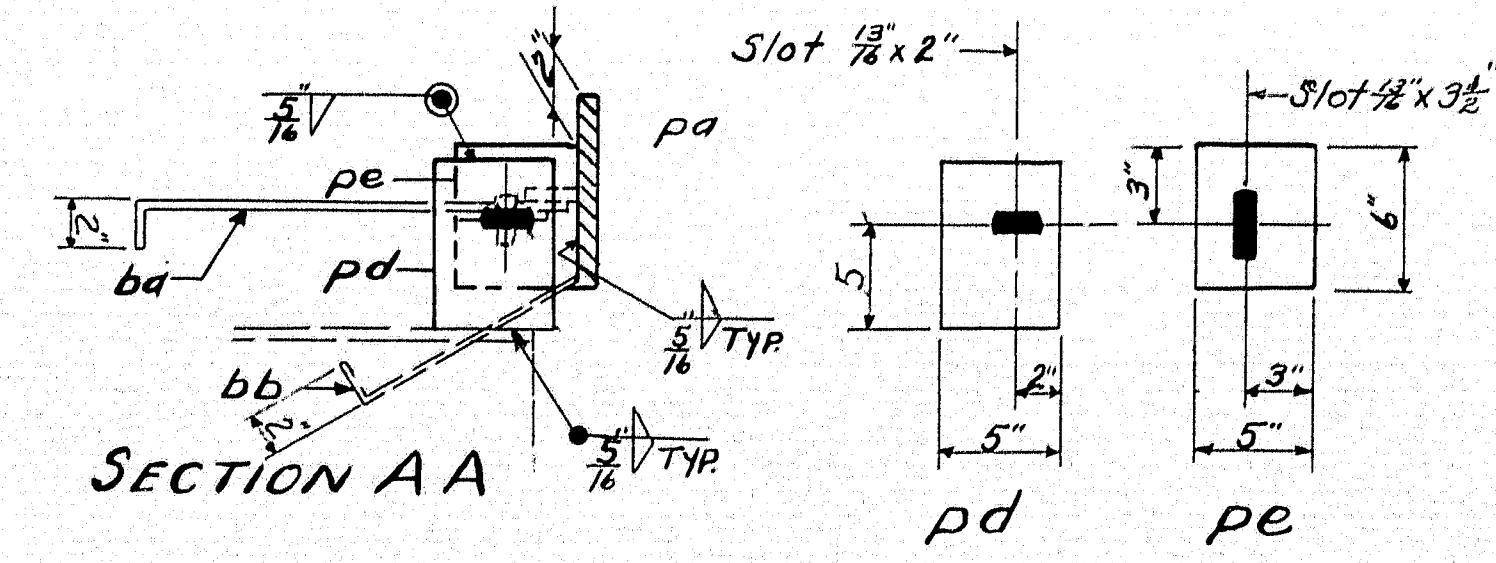
HALF ELEVATION (Left)

Materials required for one unit of
END Dam 16 Units Required

One PL 8"x8"x14'-0" ED1 & 14'-0" for ED2 pa
One PL 2"x8"x3'-11" pb
One PL 2"x8"x8'-0" pc
Two PL 5"x8"x0'-7" pd
Two PL 5"x8"x0'-6" pe

Thirteen bars 2"x3/4"x1'-8" ba
Six bars 2"x3/4"x1'-0" bb
Two Mech. bolts 3/4"x0'-2"

Set plates pd in field as required to meet plates pe and weld in position. Then set dam to grade by use of bolts and slotted holes. Secure and weld as shown.



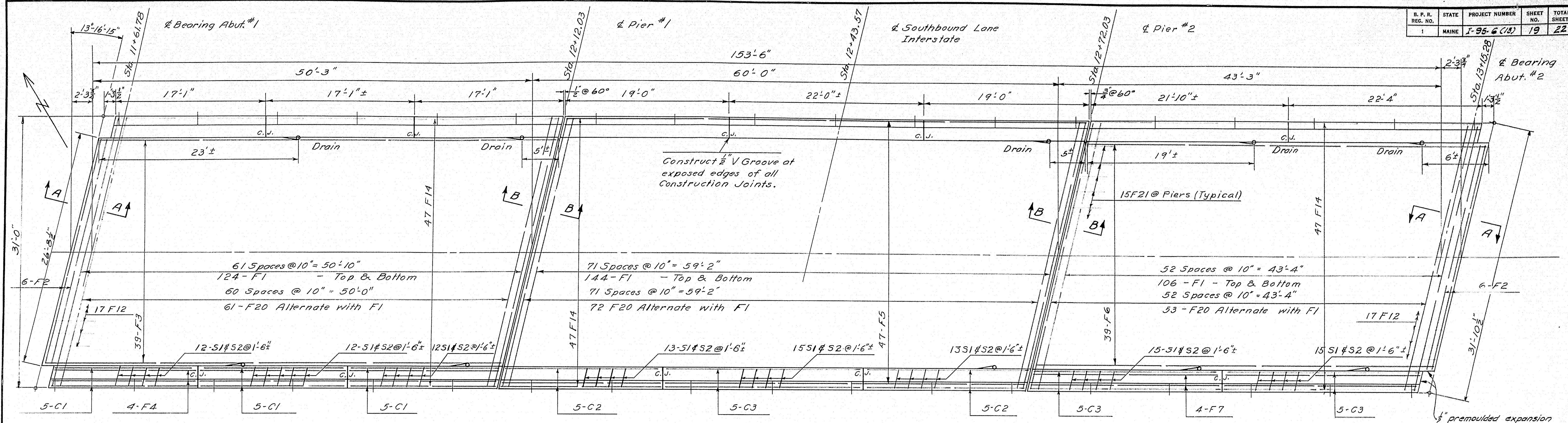
END DAM LOCATIONS

Location	Right	Left	Elevation @ Roadway
± Pier No. 1	2 3/4"	3 3/8"	222.84
± Pier No. 2	2 3/8"	4"	221.83
± Pier No. 3	1 3/8"	4 3/8"	216.07
± Pier No. 4	1 3/8"	5 3/8"	213.16

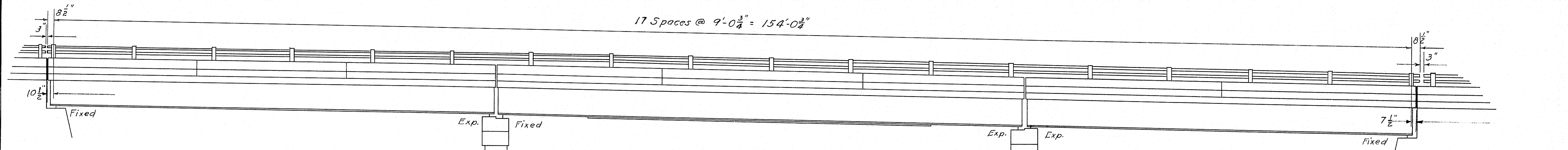
DESIGN - WISWELL
TRACE - W.W.H.
CHECK - C.S.A.

BRIDGE NO.
SURVEY -
PLOT -

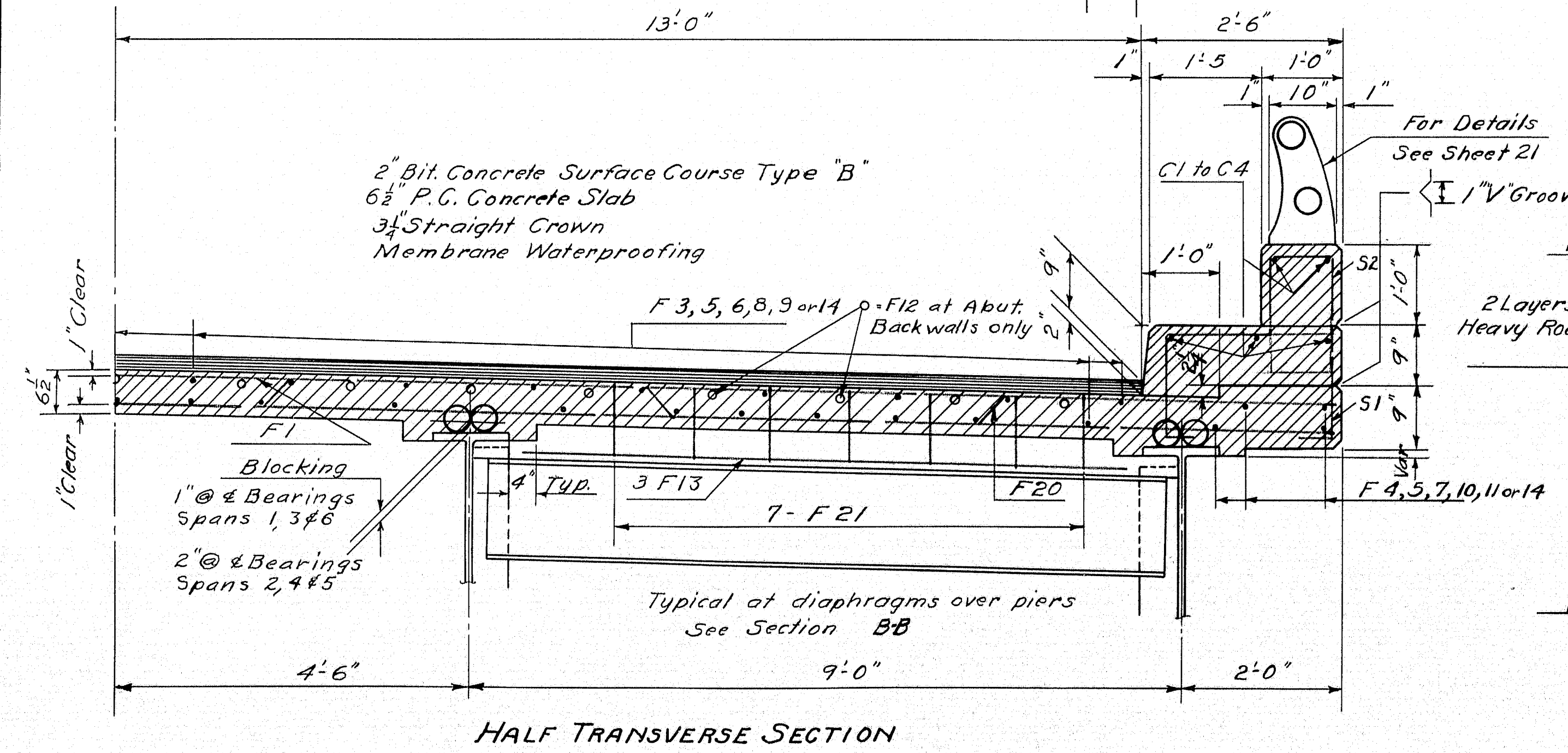
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
LYONS ROAD BRIDGE
OVER
INTERSTATE HIGHWAY
IN THE TOWN OF
SIDNEY
KENNEBEC COUNTY
SHEAR CONNECTORS & EXPANSION DAM DETAILS
SHEET 18 OF 22 AUGUSTA, MAINE MAY 1958



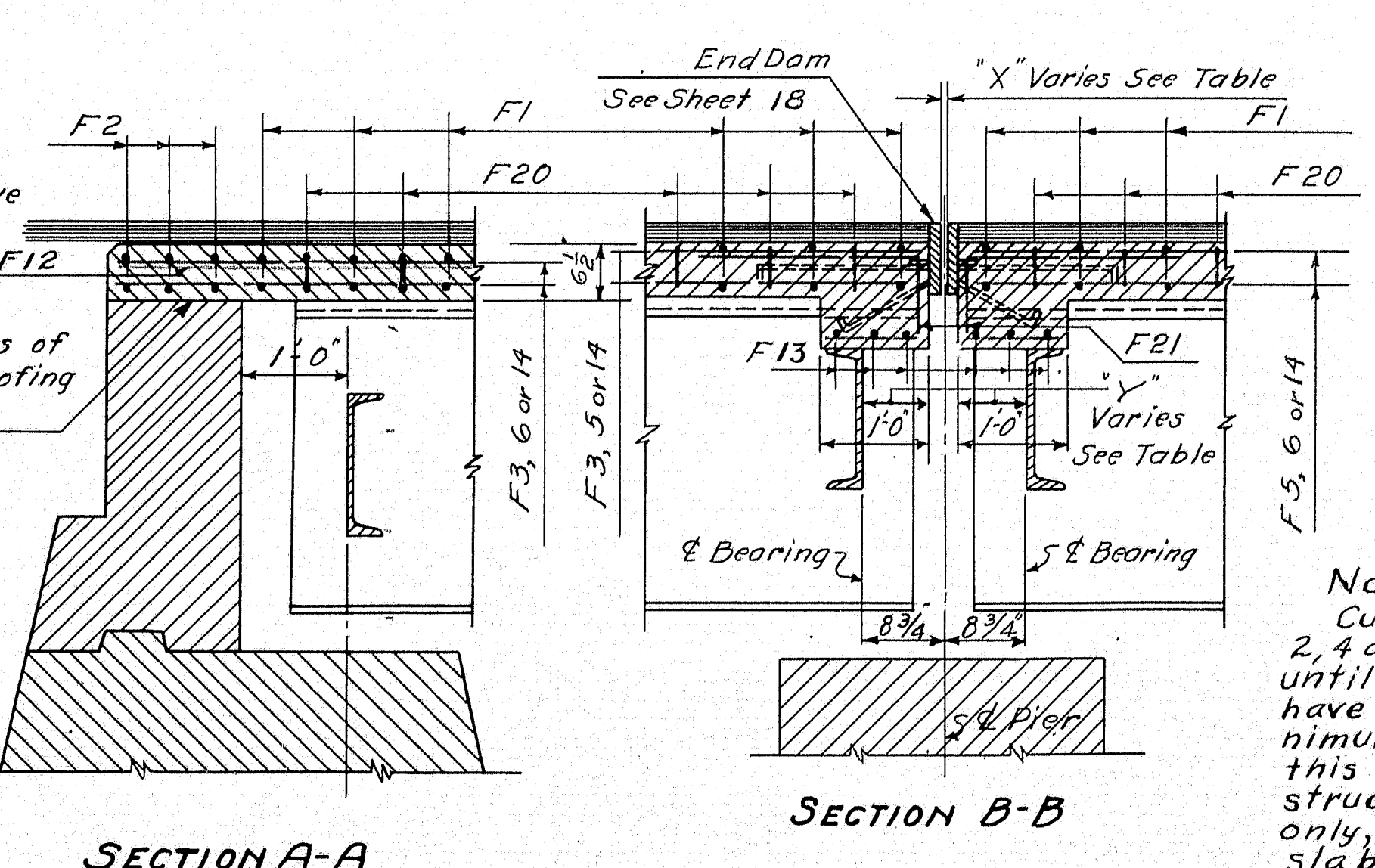
PLAN FOR BRIDGE OVER SOUTHBOUND LANE
Dimensions for South Curb same as North Curb.
Reinforcing for North Curb same as South Curb.



SOUTH ELEVATION
North Elevation Opposite Hand



HALF TRANSVERSE SECTION



SECTION A-A

SECTION B-B

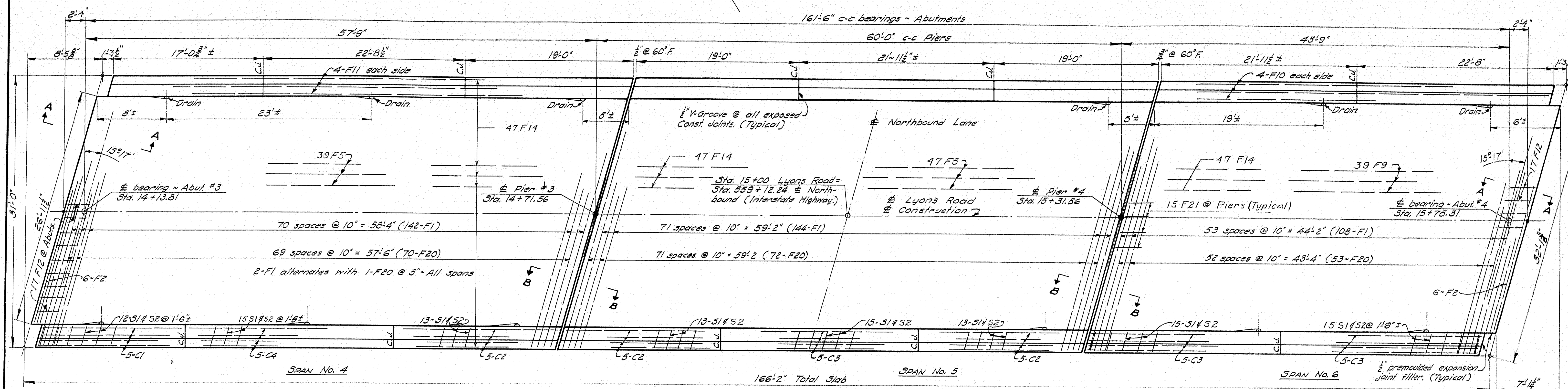
NOTES
All dimensions shown are horizontal.
Break band at Construction Joints in Curbs and Rail Papelets with a coat of asphalt paint.
Chamfer exposed edges of concrete 1/2".
All vertical joints to be made plumb.
These Sections apply for Bridge over Northbound Lane, See Sheet No. 20.
Omit 1/2" set screws from one end of rail bars adjacent to Expansions.

PIER NO.	"X"	"Y"
1	1 1/2	7 3/4
2	3 1/4	7 3/4
3	1 1/2	7 3/4
4	3 1/4	7 3/4

TABLE
"X" = Opening @ 60° F.

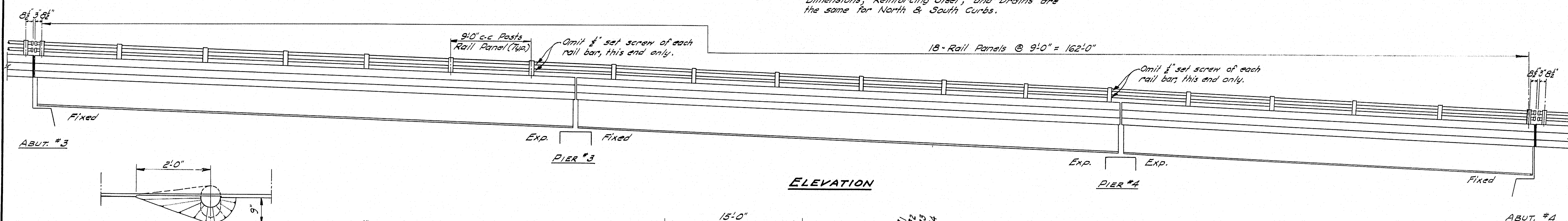
Note:-
Curb and rail curb of spans 2, 4 and 5 shall not be placed until the superstructure slabs have been in place for a minimum period of 7 days. During this period forms may be constructed, but hand equipment only, will be allowed on the slab.

DESIGN - C. W. DeWolf, P.E.	BRIDGE NO.
TRACE - SAVAGE	SURVEY
CHECK - C. S. A.	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
LYONS ROAD BRIDGE	
OVER	
INTERSTATE HIGHWAY	
IN THE TOWN OF	
SIDNEY	
KENNEBEC COUNTY	
SUPERSTRUCTURE - SPANS 1-2-3	
SHEET 19 OF 22	AUGUSTA, MAINE MAY 1958

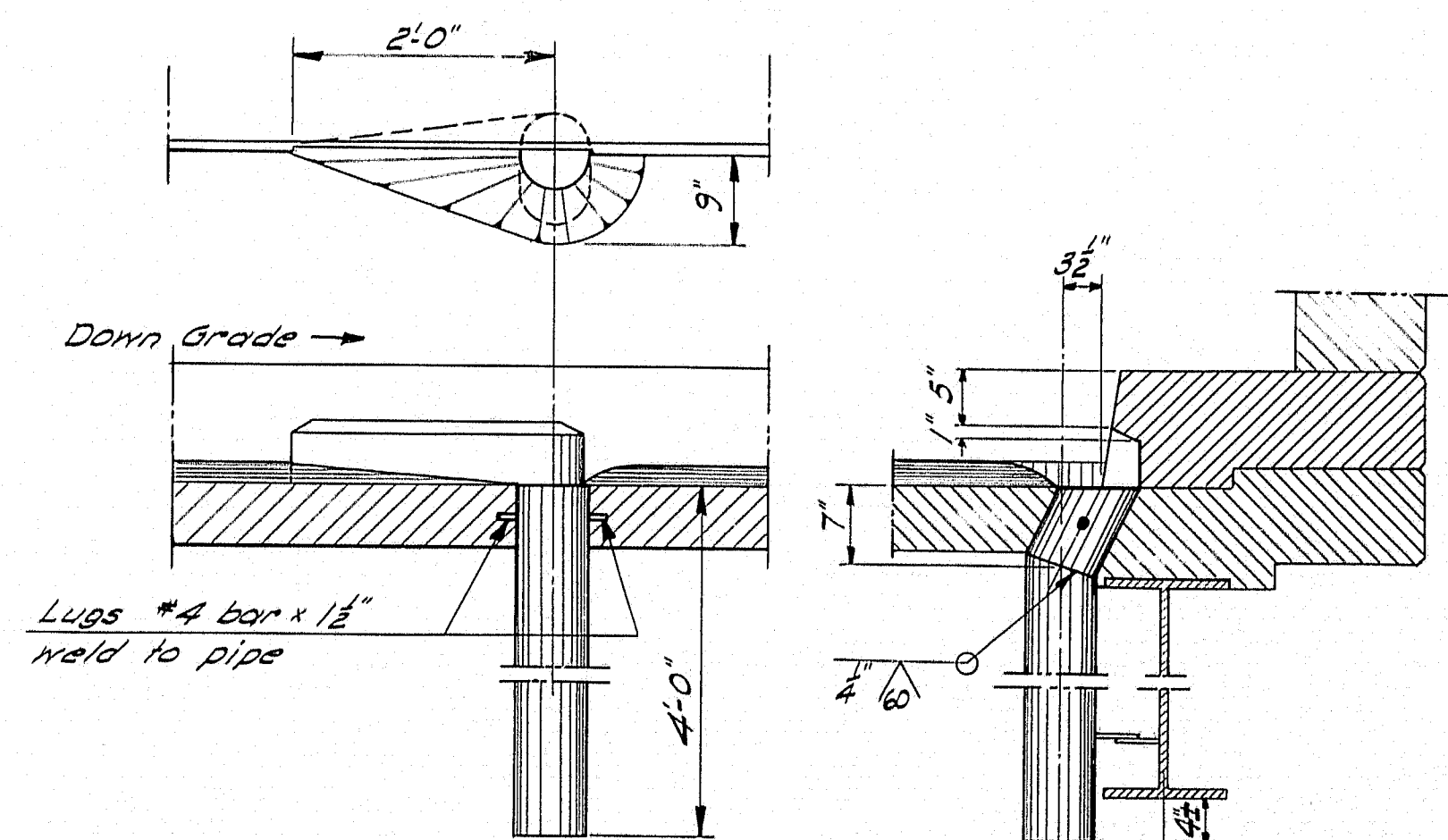


PLAN - SUPERSTRUCTURE SPANS 4-5-6

Dimensions, Reinforcing Steel, and Drains are the same for North & South Curbs.



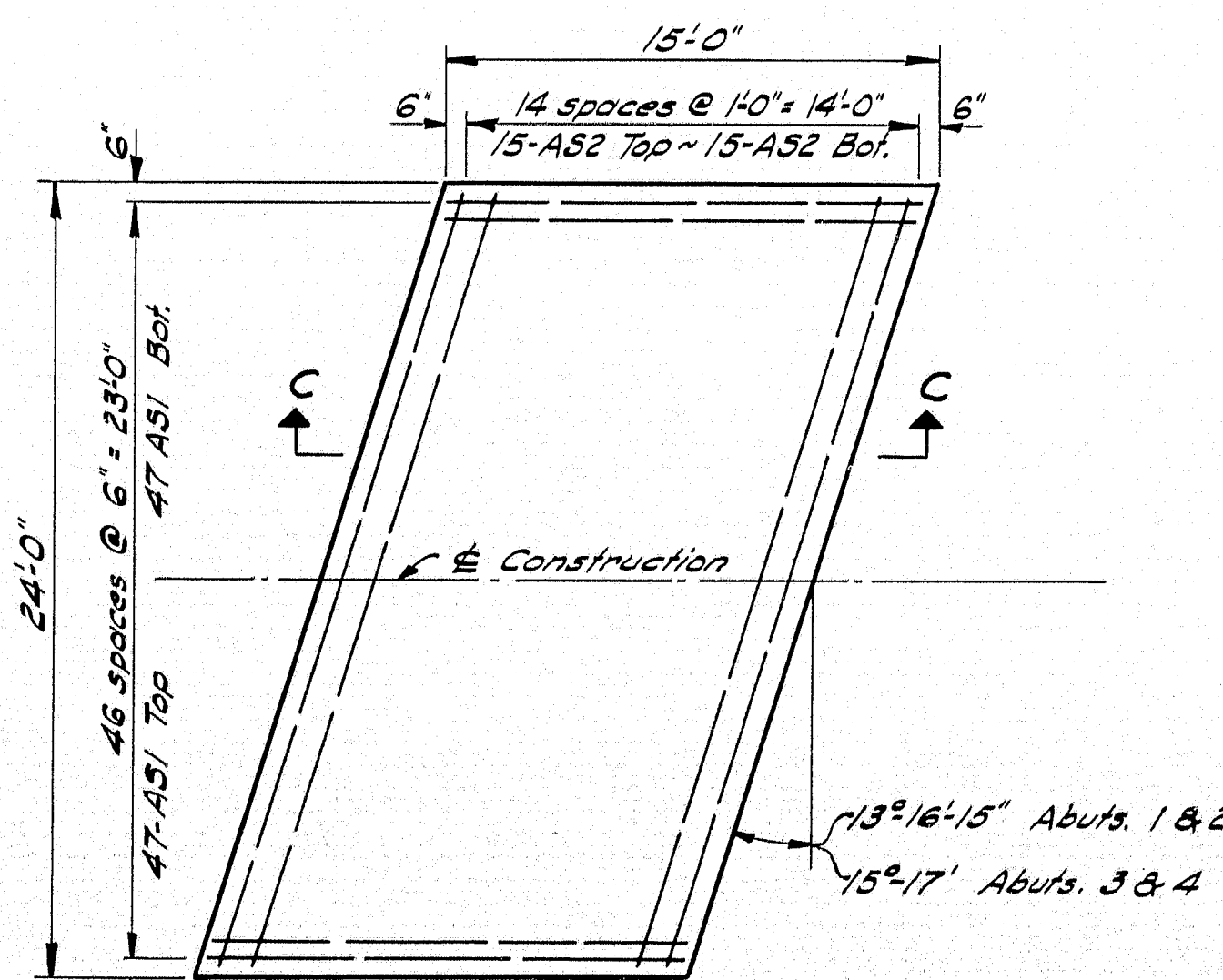
ELEVATION



NOTE: Drains shall be paid for as Structural Steel; Fabricated, Delivered, and Erected under Items 702-103 & 702-104.

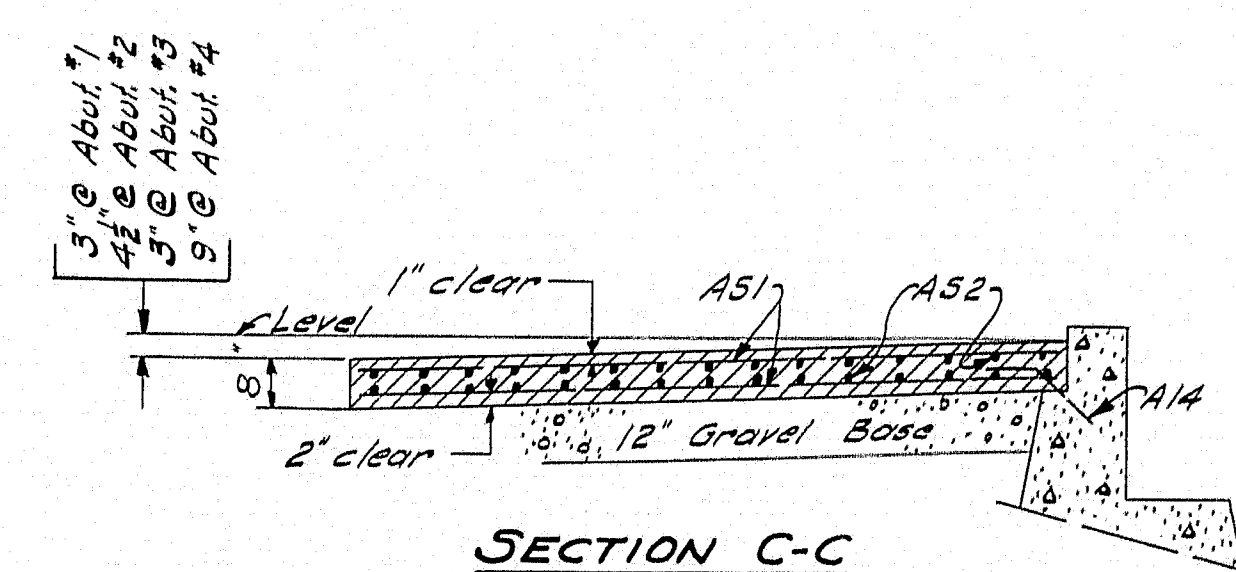
DRAIN DETAILS

22 Drains Reqd. 10 ~ Spans 1-2-3
12 ~ " 4-5-6



APPROACH SLAB

Typical



SECTION C-C

(Opposite hand @ Abut. #4)

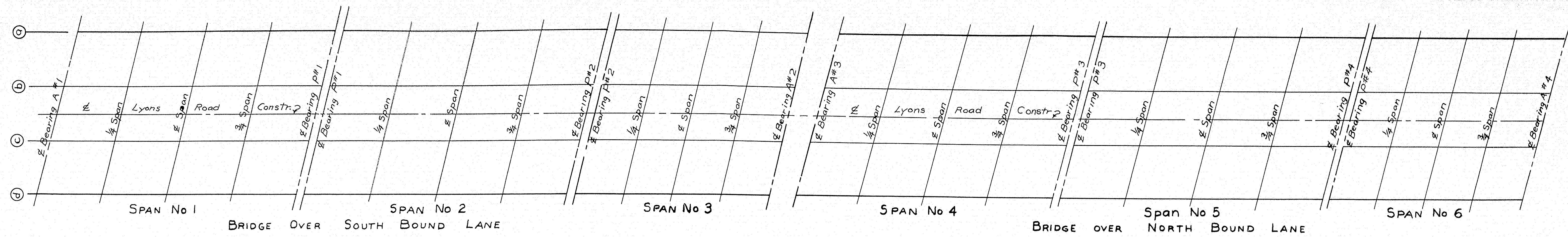
NOTE: Concrete in Approach Slabs to be paid for under Item 701-40, Portland Cement Concrete in Roadway & Sidewalk Slabs on Steel Bridges.

NOTE: For Sections and Notes see sheet #19, Structure over the Southbound Lane.

DESIGN - WISWELL DET. RWL.
SURVEY - CLARK
CHECK - G.S.A.

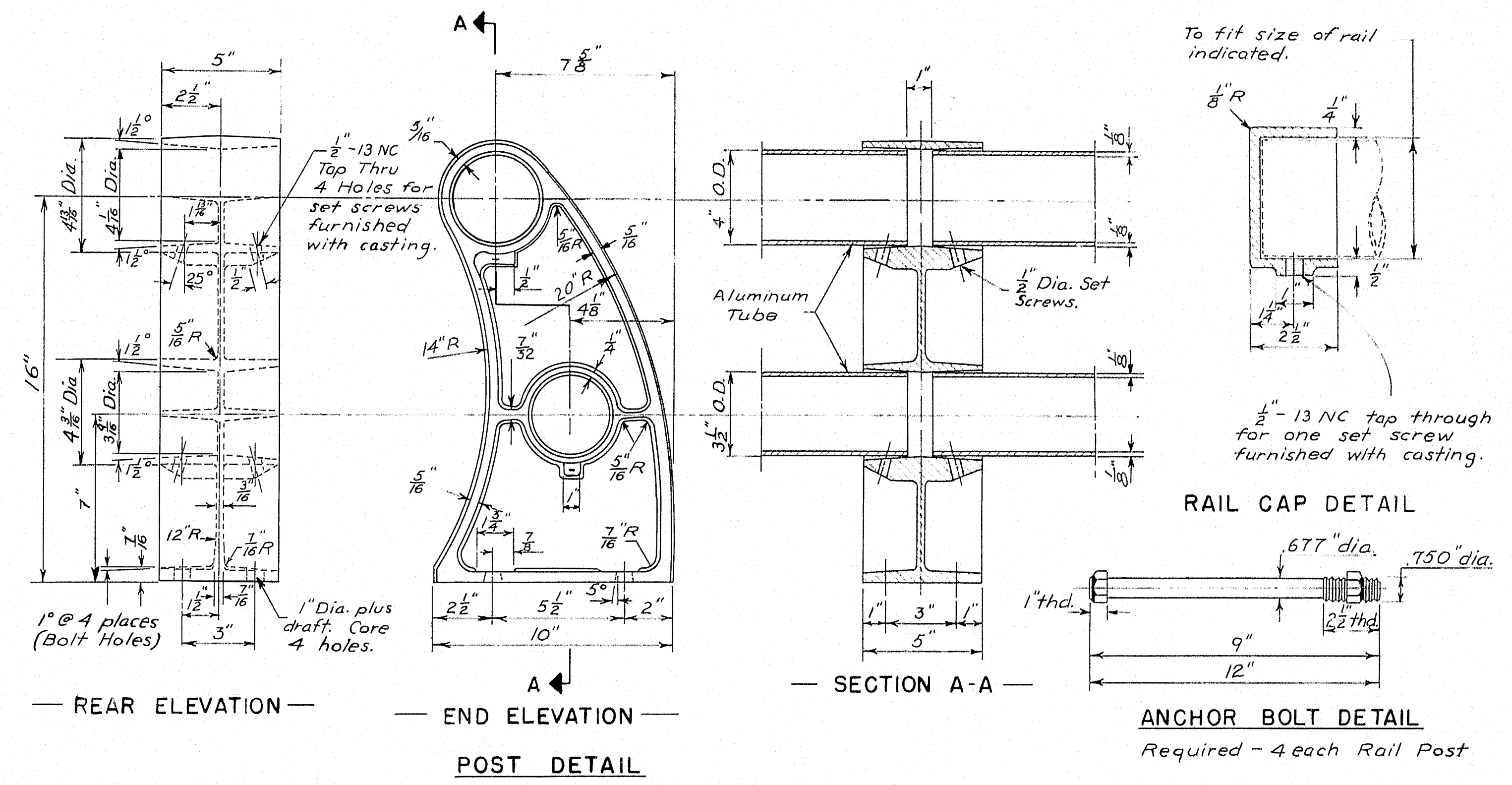
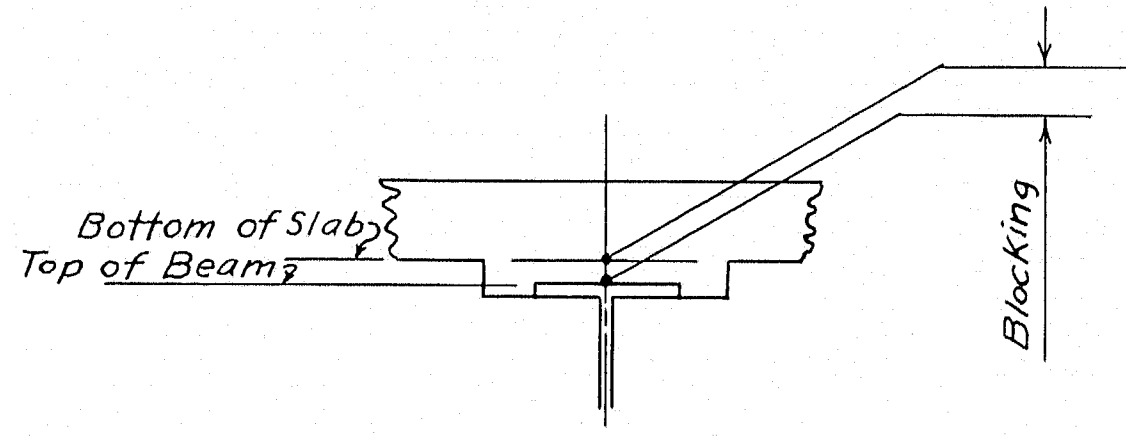
BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
LYONS ROAD BRIDGE
OVER
INTERSTATE HIGHWAY
IN THE TOWN OF
SIDNEY
KENNEBEC COUNTY
SUPERSTRUCTURE SPANS 4-5-6 & APP. SLABS
SHEET 20 OF 22 AUGUSTA, MAINE MAY 1958



ELEVATIONS FOR BLOCKING				
Span No.	Location	Line "d"	Line "c"	Line "b"
1	Line "d" Abutment	222.62	222.78	222.75
	1/4 Pt.	222.45	222.62	222.59
	1/2 Pt.	222.29	222.46	222.43
	3/4 Pt.	222.10	222.27	222.24
	Line "b" Pier	221.91	222.07	222.03
2	Line "d" Pier	221.80	222.05	222.01
	1/4 Pt.	221.72	221.88	221.85
	1/2 Pt.	221.50	221.67	221.63
	3/4 Pt.	221.23	221.39	221.35
	Line "b" Pier	220.92	221.07	221.02
3	Line "d" Pier	220.89	221.04	220.99
	1/4 Pt.	220.69	220.84	220.79
	1/2 Pt.	220.48	220.62	220.57
	3/4 Pt.	220.24	220.38	220.33
	Line "b" Abutment	219.98	220.12	220.07
4	Line "d" Abutment	217.25	217.35	217.27
	1/4 Pt.	216.82	216.93	216.85
	1/2 Pt.	216.34	216.46	216.37
	3/4 Pt.	215.82	215.93	215.84
	Line "b" Pier	215.25	215.34	215.25
5	Line "d" Pier	215.19	215.28	215.19
	1/4 Pt.	214.67	214.77	214.67
	1/2 Pt.	214.10	214.20	214.10
	3/4 Pt.	213.48	213.58	213.47
	Line "b" Pier	212.82	212.90	212.79
6	Line "d" Pier	212.75	212.83	212.72
	1/4 Pt.	212.30	212.38	212.27
	1/2 Pt.	211.82	211.90	211.78
	3/4 Pt.	211.32	211.39	211.28
	Line "b" Abutment	210.80	210.87	210.75

NOTE:- To compensate for Dead Load Deflection, as well as inequalities in rolling the beams, the following procedure is to be used: Before any slab forms are constructed, elevations are to be taken at the top of the stringer flange at the points indicated and subtracted from "Bottom Slab Elevations". The result will be the amount of blocking to be used when building the forms.



ALUMINUM RAIL DETAILS

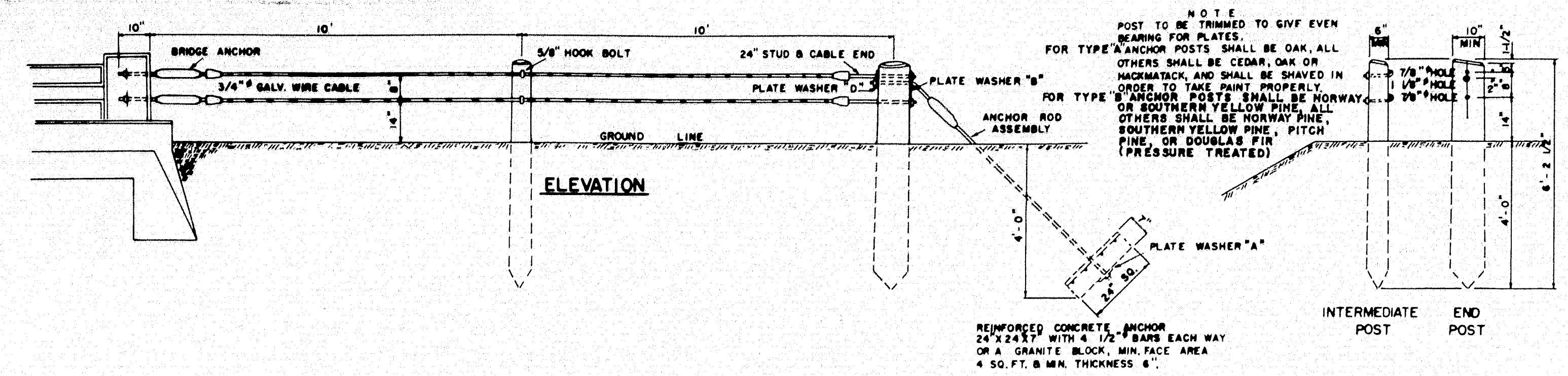
Span No. 1	Span No. 2	Span No. 3	Span No. 4	Span No. 5	Span No. 6
Interior Stringer	Interior Stringer	Interior Stringer	Interior Stringer	Interior Stringer	Interior Stringer
Exterior Stringer	Exterior Stringer	Exterior Stringer	Exterior Stringer	Exterior Stringer	Exterior Stringer

DIAGRAM FOR DEAD LOAD DEFLECTIONS.

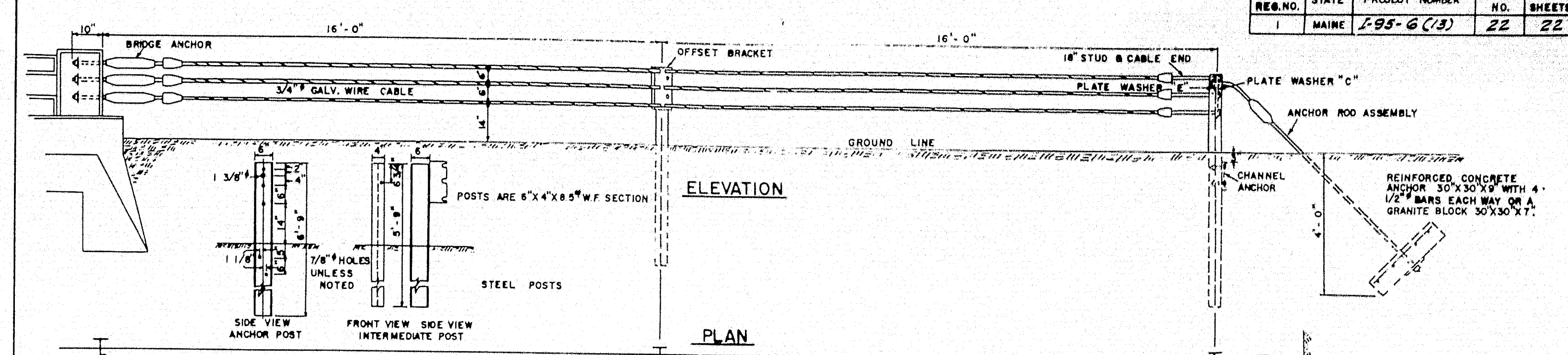
DESIGN - WISWELL
TRACE - DORTCH
CHECK - C. S. A.

BRIDGE NO.
SURVEY -
PLOT -

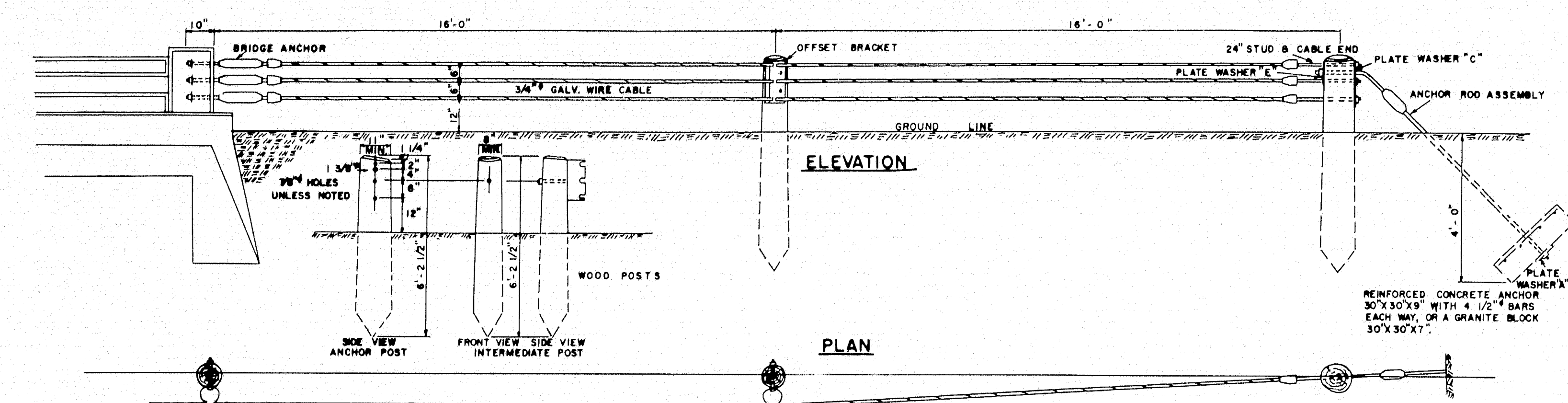
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
LYONS ROAD BRIDGE
OVER
INTERSTATE HIGHWAY
IN THE TOWN OF
SIDNEY
KENNEBEC COUNTY
BLOCKING DIAGRAM
SHEET 21 OF 22 AUGUSTA, MAINE MAY 1958



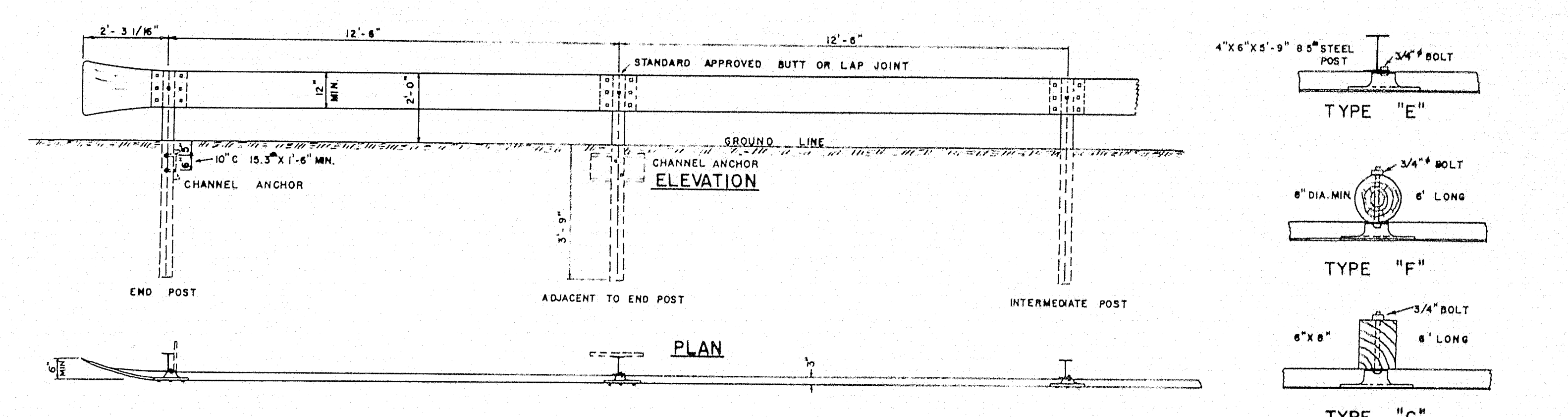
GUARD RAIL TYPE "A" & "B"



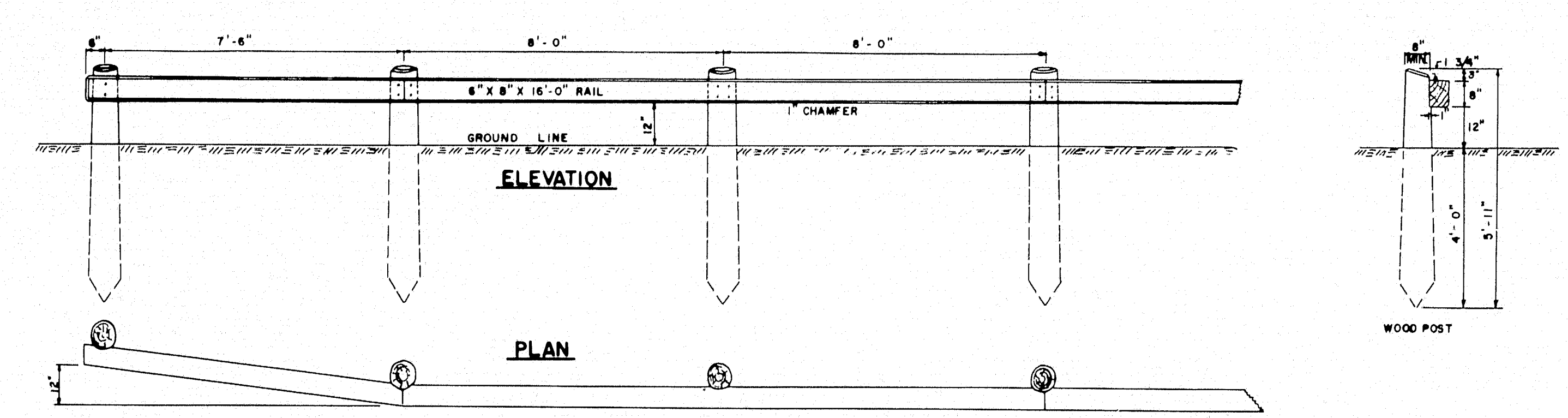
GUARD RAIL TYPE "C"



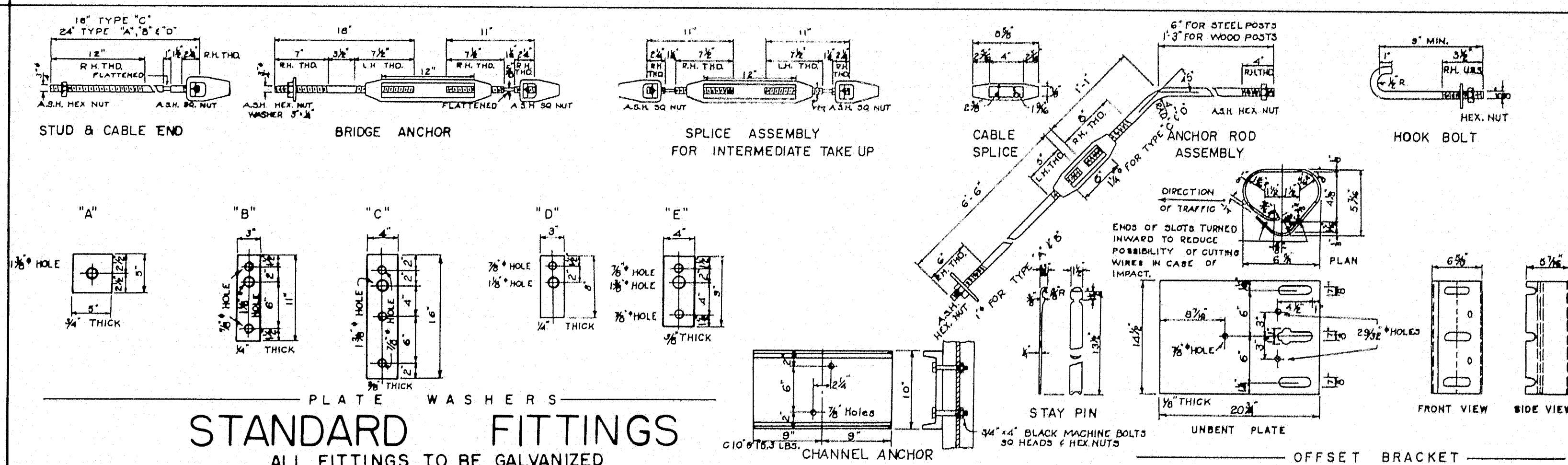
GUARD RAIL TYPE "D"



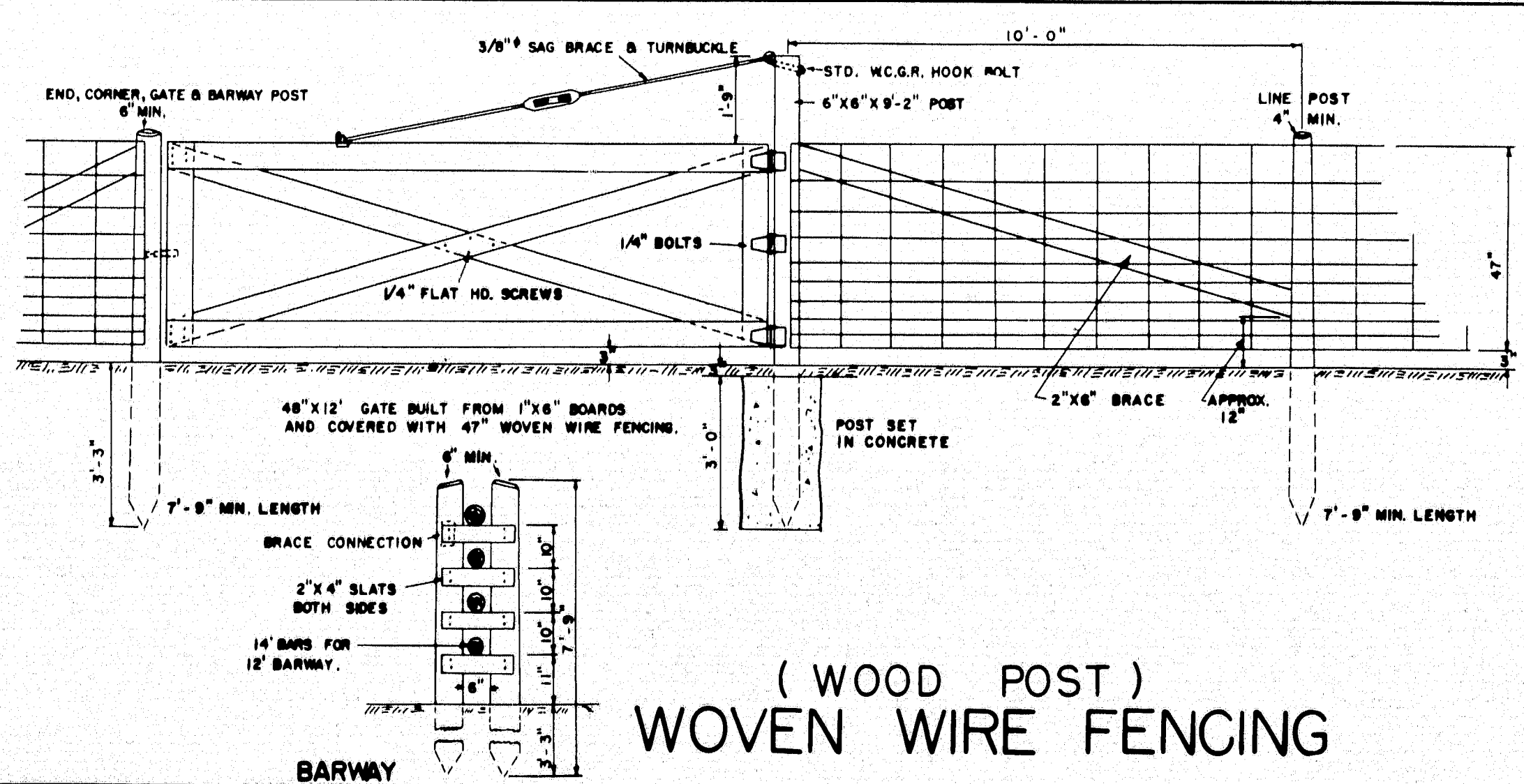
GUARD RAIL TYPE "E", "F" & "G"



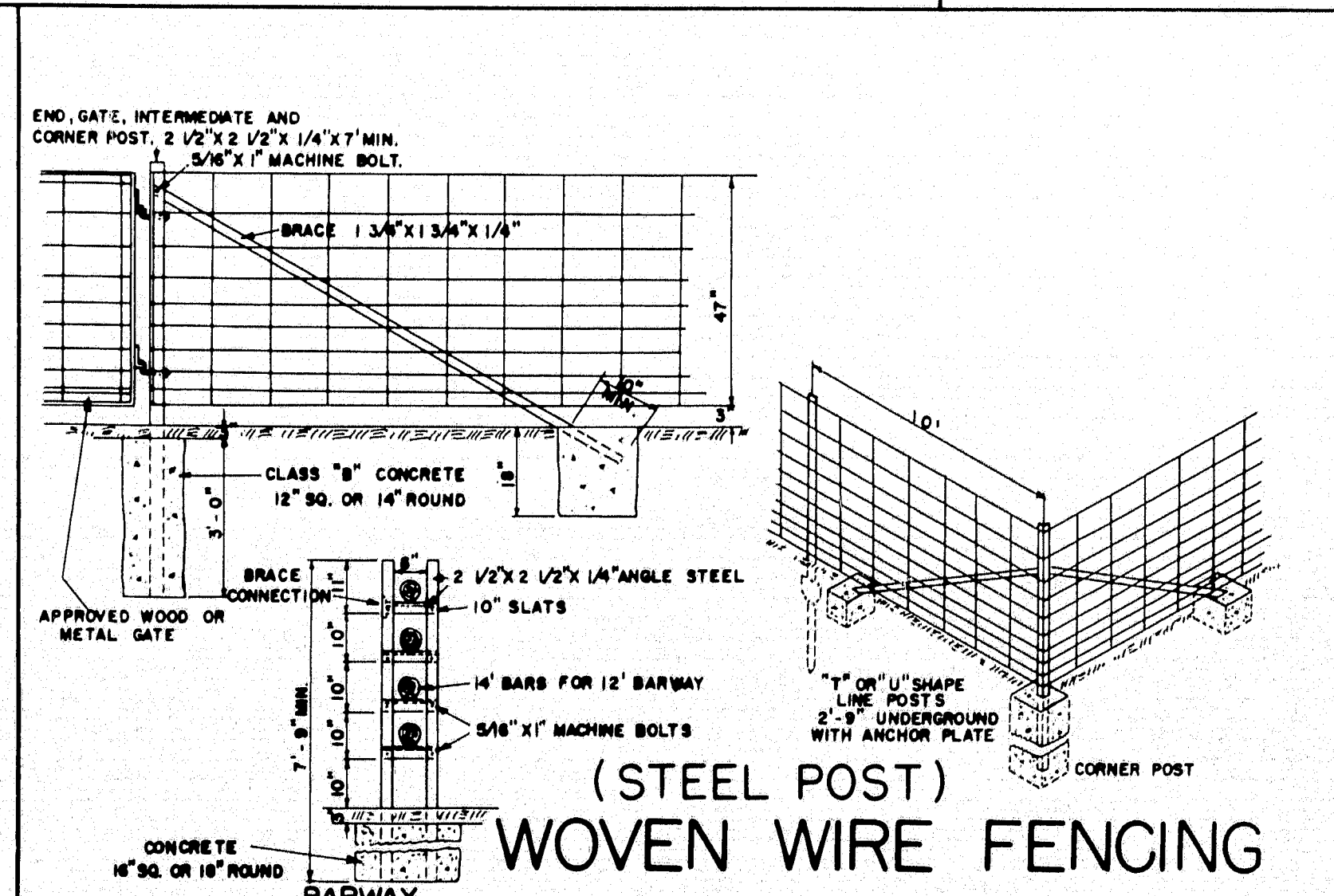
GUARD RAIL TYPE "H"



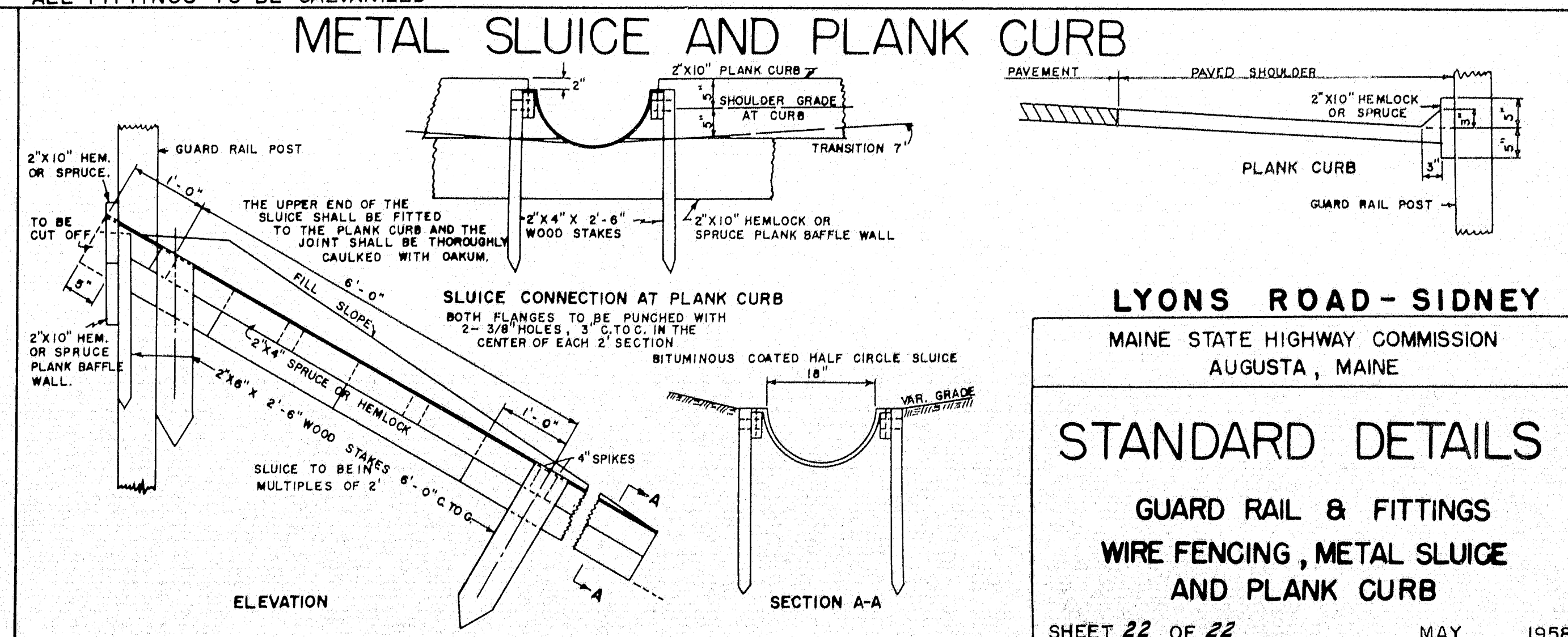
STANDARD FITTINGS
ALL FITTINGS TO BE GALVANIZED



(WOOD POST)
WOVEN WIRE FENCING



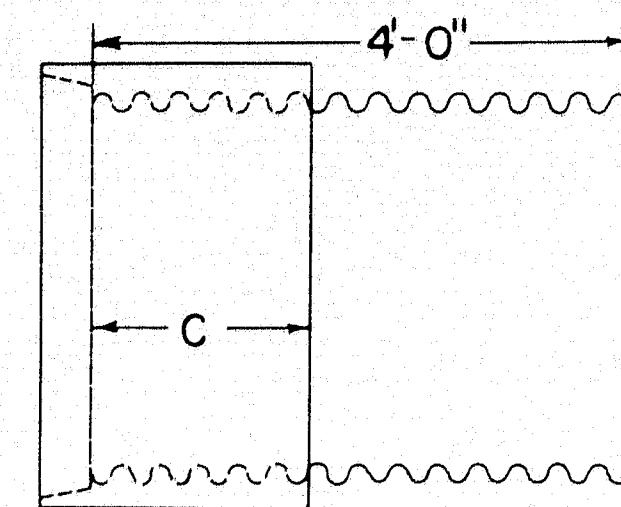
(STEEL POST)
WOVEN WIRE FENCING



METAL SLUICE AND PLANK CURB

LYONS ROAD - SIDNEY
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE
STANDARD DETAILS
GUARD RAIL & FITTINGS
WIRE FENCING, METAL SLUICE
AND PLANK CURB
SHEET 22 OF 22 MAY 1958

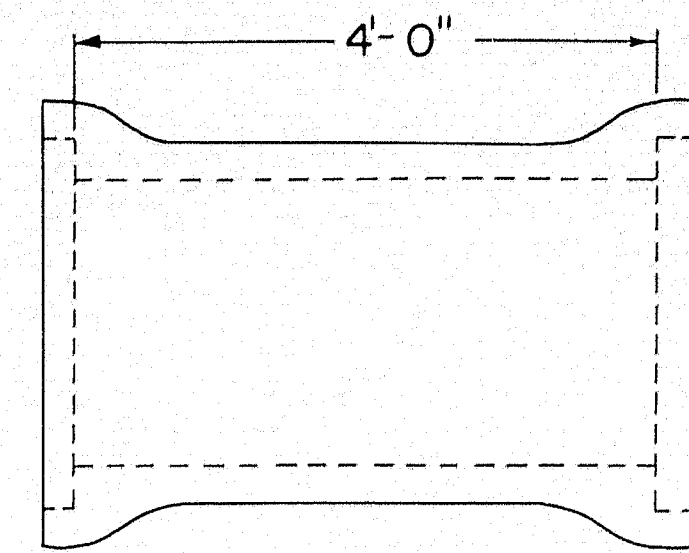
PIPE CONNECTIONS



GROOVE END COMBINATION
For 30" to 72" inclusive, diameter connection
between concrete and metal pipe

"C" = 17" min. for sizes 30" to 48" incl.
"C" = 23" min. for sizes over 48"

Asphalt coated corrugated metal pipe
shall conform to the latest
standard specifications

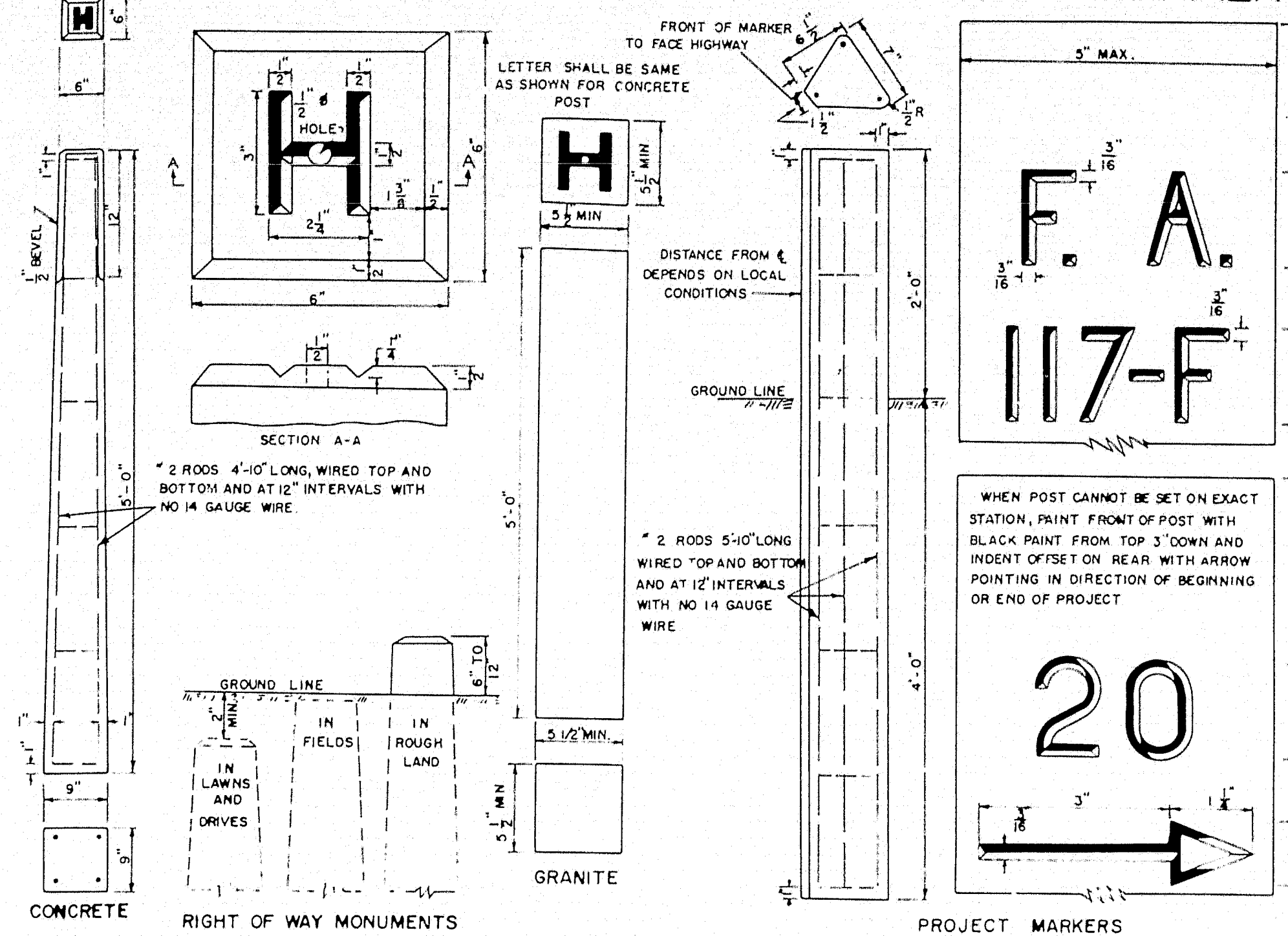


REINFORCED CONCRETE PIPE CONNECTOR
DOUBLE BELL

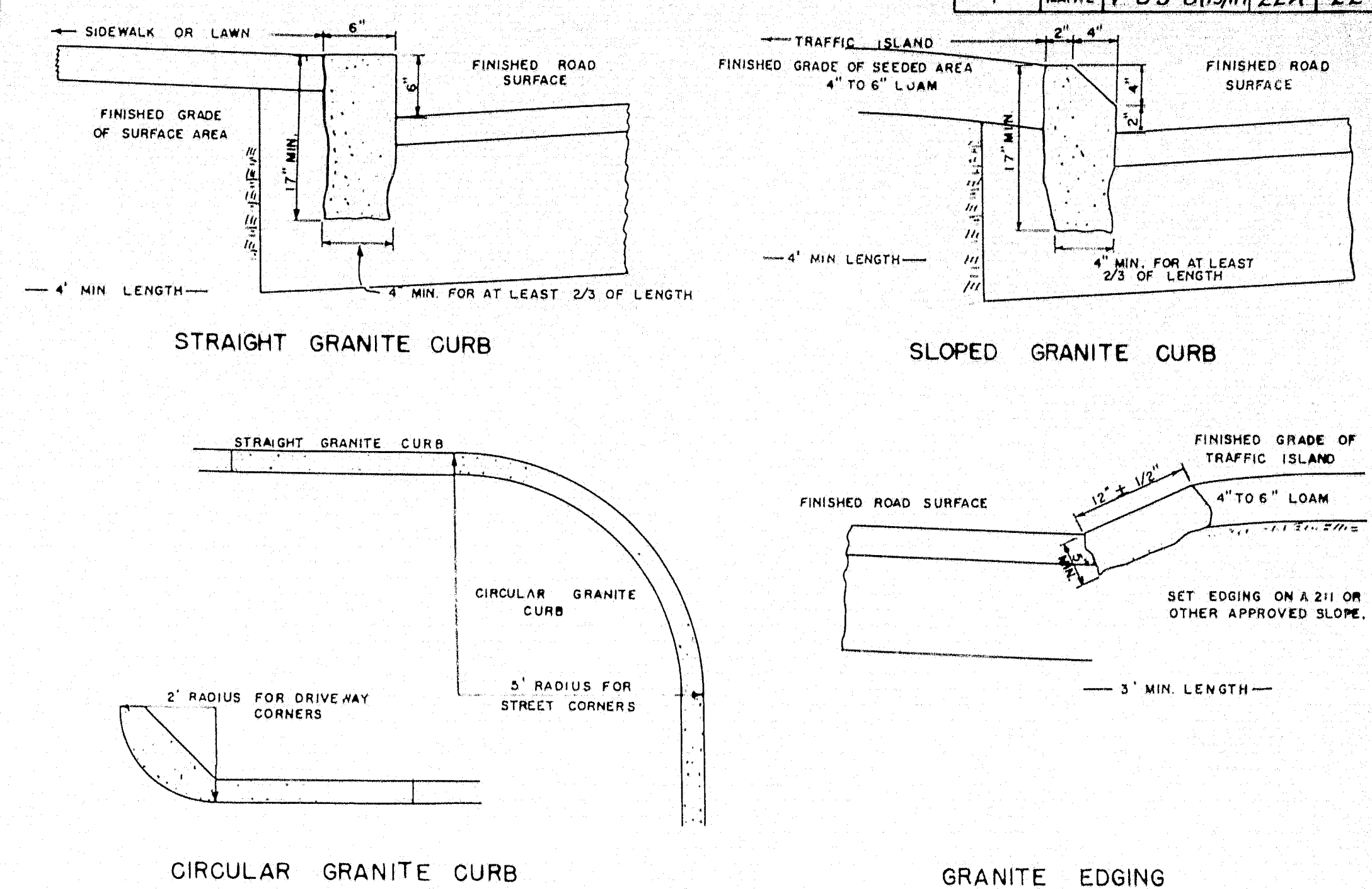
For 12" to 24" inclusive, diameter connection
between concrete and metal pipe

Reinforced concrete pipe shall
conform to the latest standard
specifications

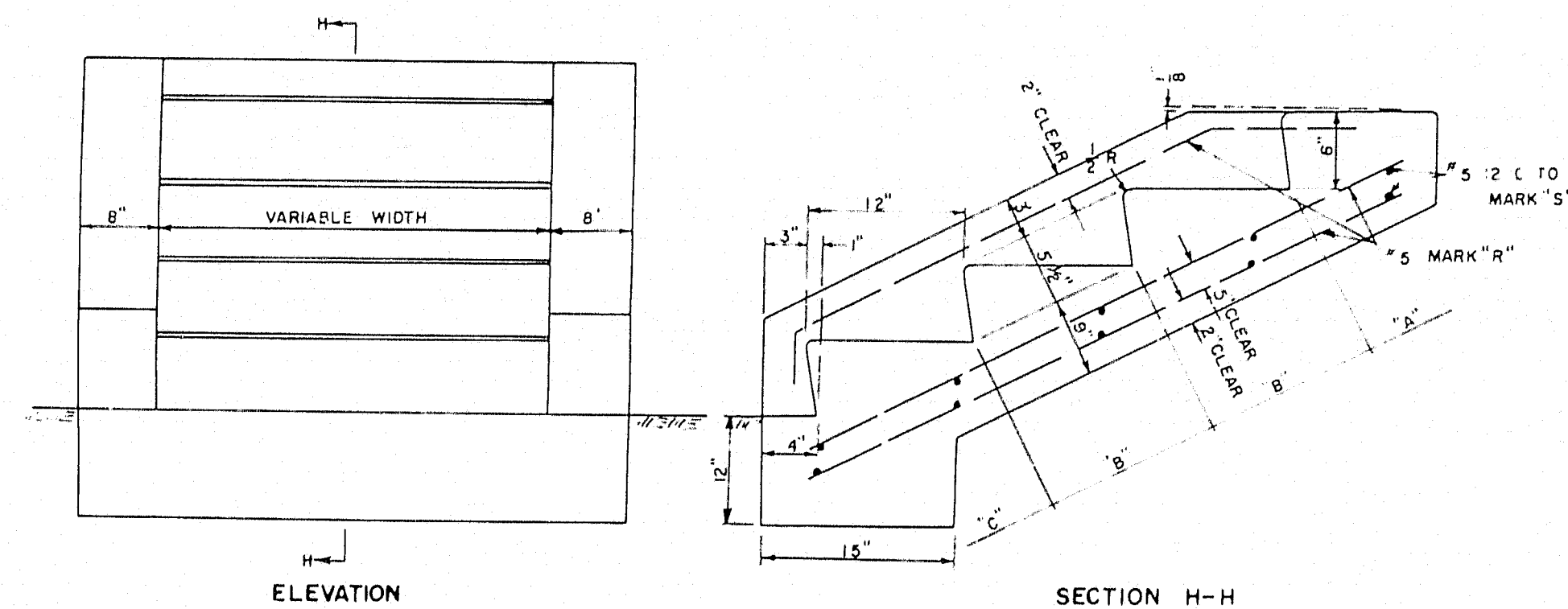
RIGHT OF WAY MONUMENTS & PROJECT MARKERS



GRANITE CURB & EDGING



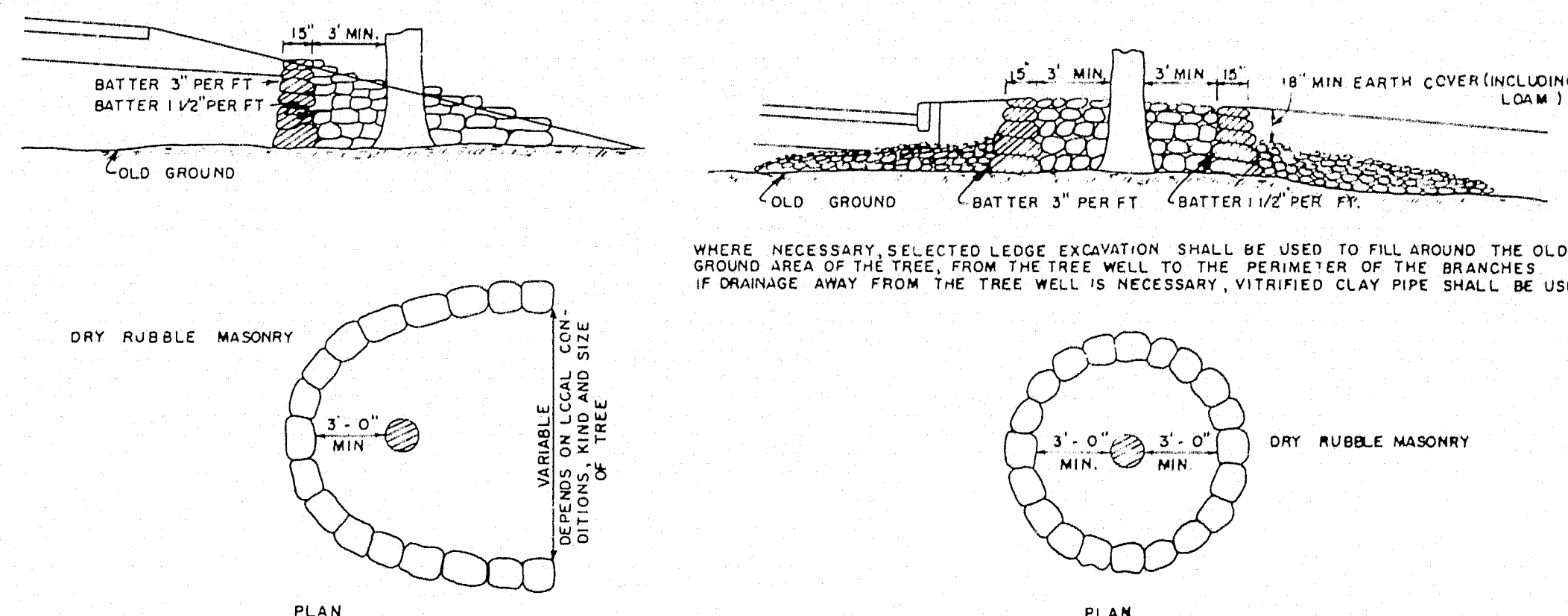
CONCRETE STEPS



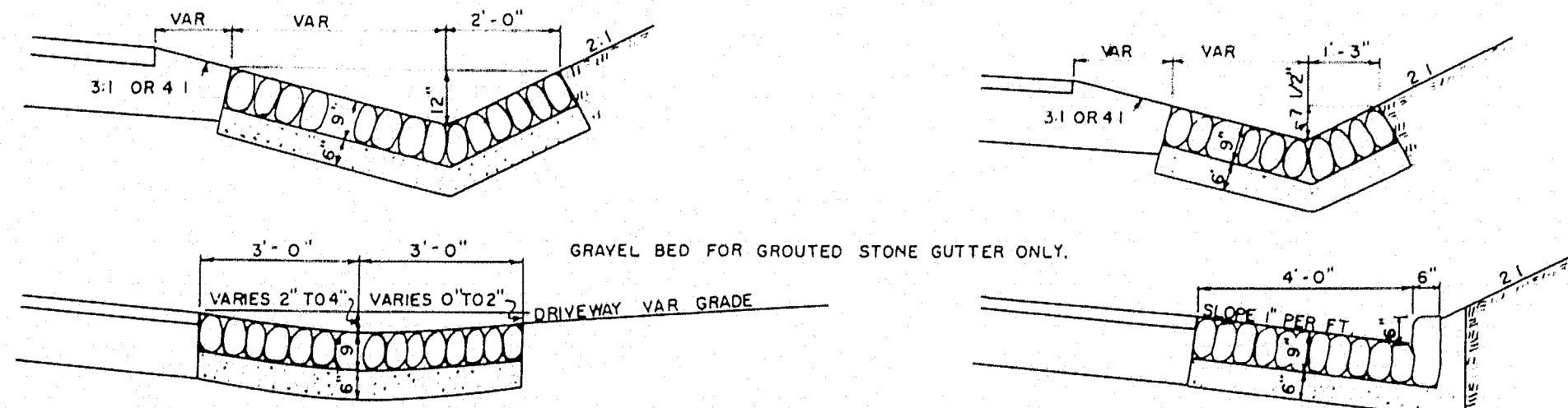
CONCRETE CLASS "A"		
SECTION	STEPS PER FT. OF WIDTH	PARAPET EACH WALL
"A" HEADER	0.32 CU. YDS	0.22 CU. YDS
"B" EA. INTER. ST.	0.40 CU. YDS	0.40 CU. YDS
"C" FOOTER	0.71 CU. YDS	0.65 CU. YDS

REINFORCING STEEL			
MARK	SIZE	NUMBER	LENGTH (EACH)
R	#5	3 EACH PARAPET	8" FOR "A"
	1043 LBS PER FT.	2 EACH FT. OF WIDTH	+13" FOR EACH "B"
			+16" FOR "C"
S	#5	2 FOR "A"	6 EACH PARAPET
	1043 LBS PER FT.	2 FOR EACH "B"	H/2 PER FT. OF WIDTH
		4 FOR "C"	

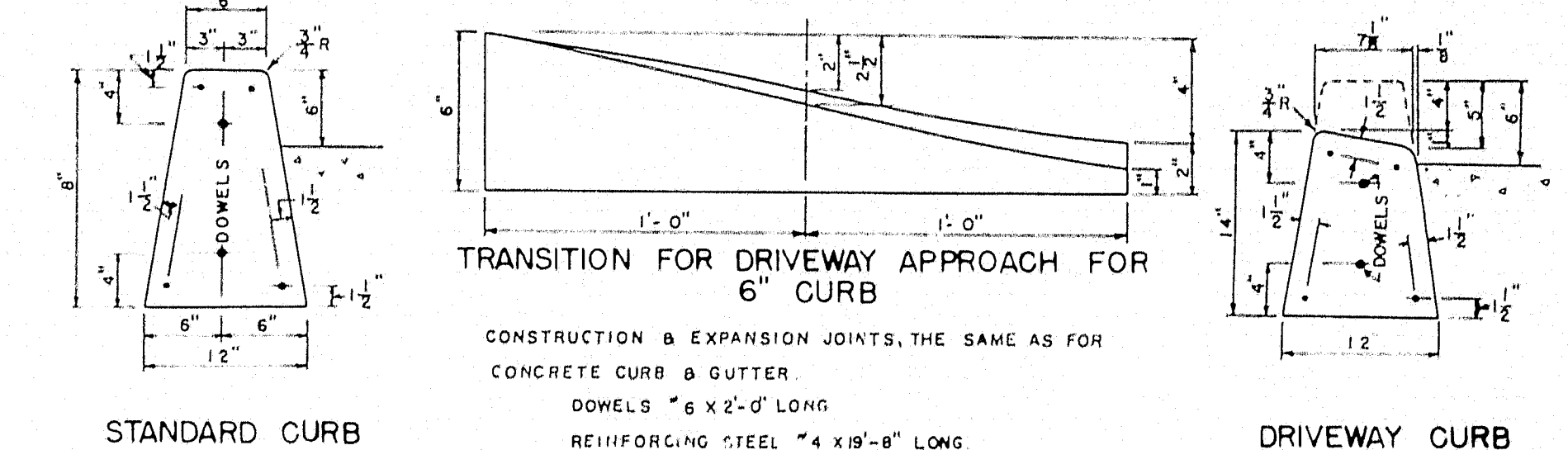
TREE WELLS



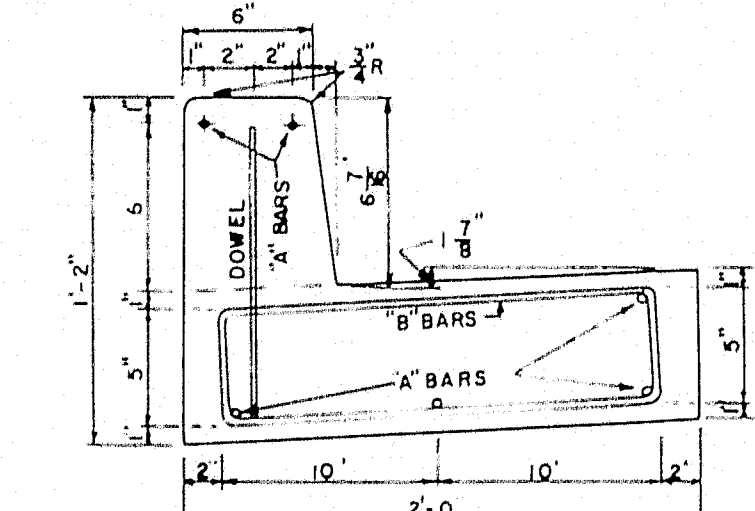
STONE GUTTER



CONCRETE CURB

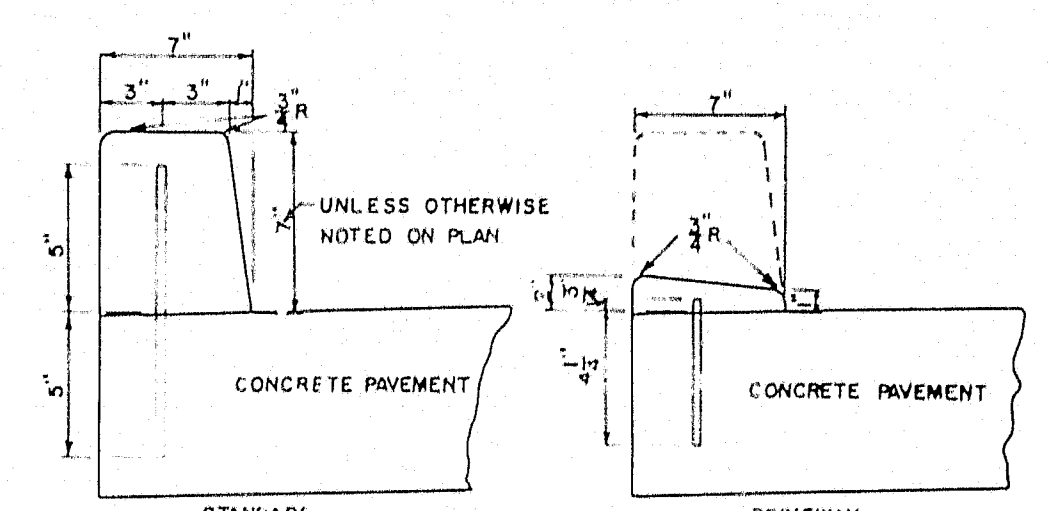


CONCRETE CURB & GUTTER



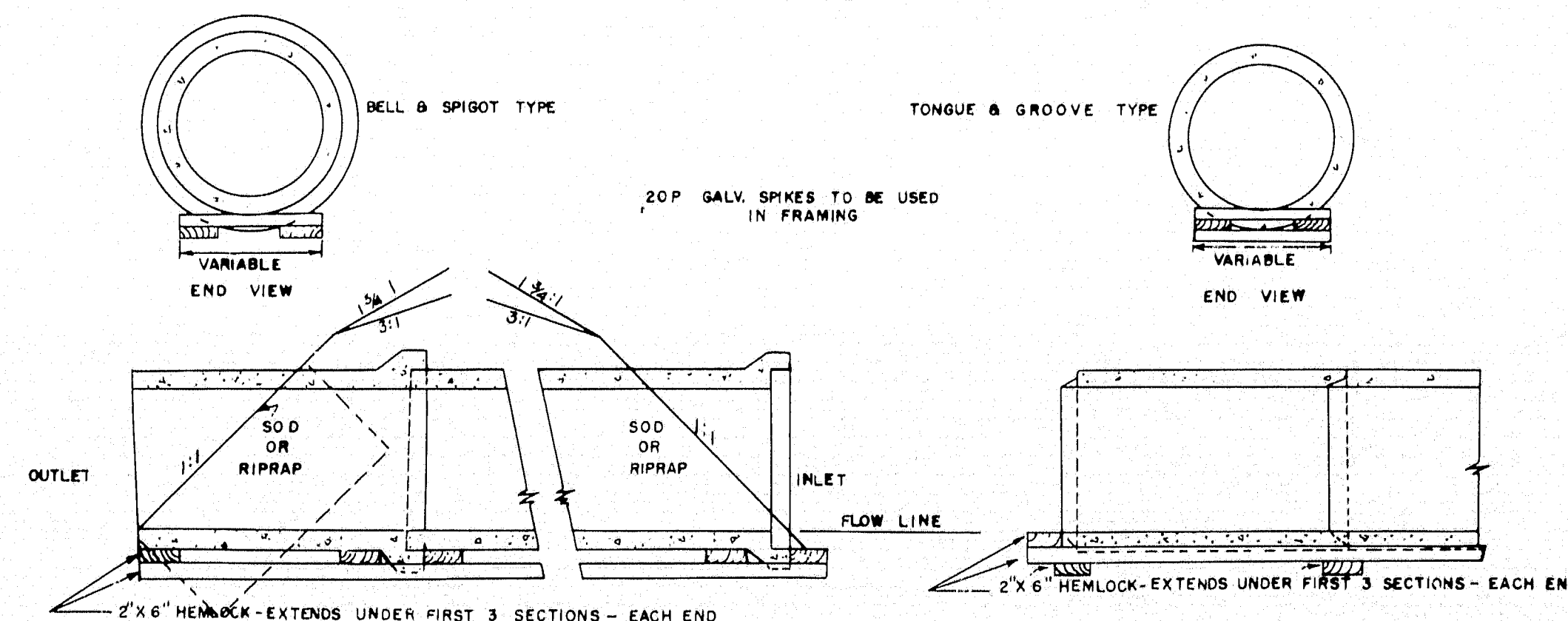
TO BE CONSTRUCTED IN 20' SECTIONS. CONSTRUCTION JOINTS TO BE PAINTED WITH BITUMINOUS MATERIAL. EXPANSION JOINTS EVERY 40' 1/2" THICK PREMOLOD MATERIAL SHALL BE PLACED IN EACH EXPANSION JOINT. "A" BARS #3 X 9'-6" LONG. "B" BARS #3 X 4'-6" LONG. PLACE "A" BARS 1'-3" FROM EACH END OF THE SECTION AND THEN SPACE THEM 3'-6" TO C. THE REST OF THE SECTION. DOWELS #4 X 1'-0" LONG, SPACED 1'-0" TO C. TO C.

INTEGRAL CONCRETE CURB

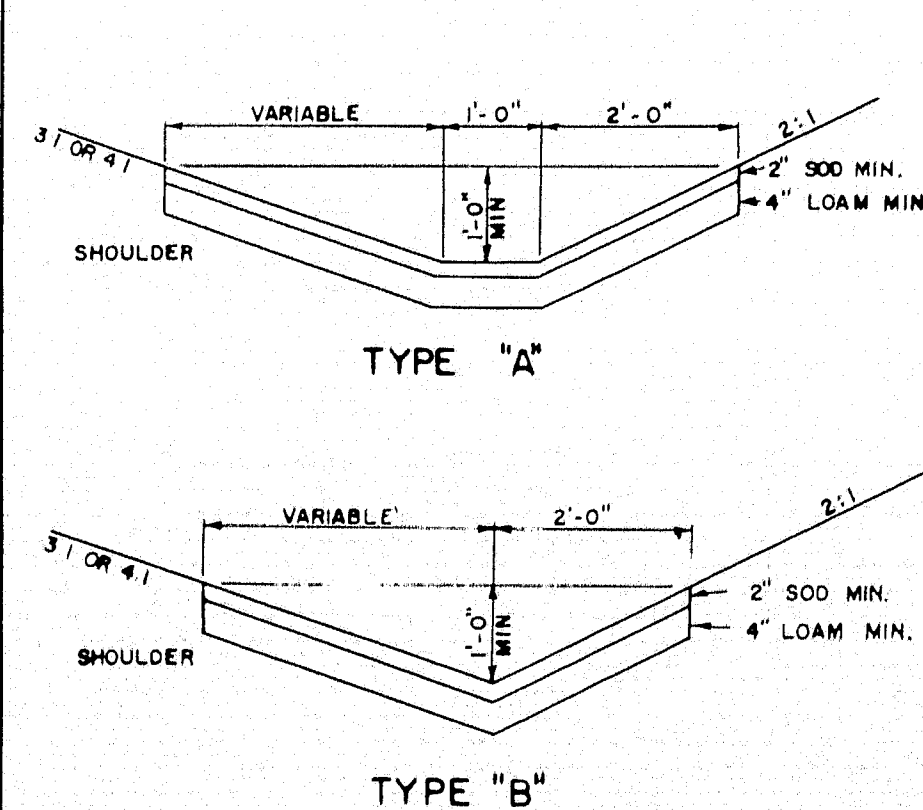


EXPANSION & DUMMY JOINTS IN CURB SHALL BE CONSTRUCTED AT SAME LOCATION AS EXPANSION & DUMMY JOINTS IN CONCRETE PAVEMENT. DOWELS #4 SPACED 1'-0" TO C. FIRST DOWEL TO BE PLACED 6" FROM END OF JOINT.

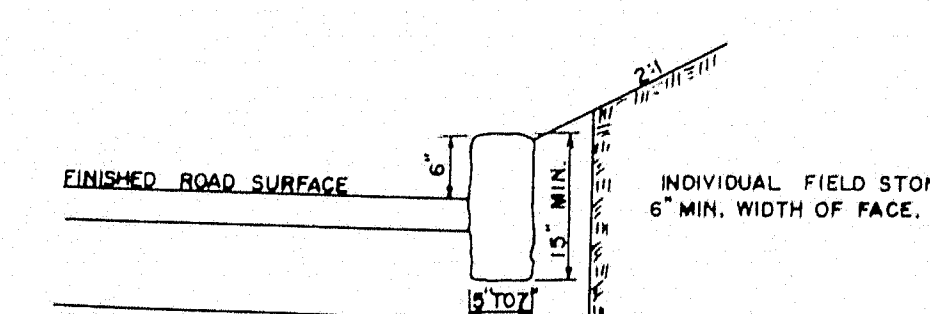
CONCRETE PIPE CRADLE



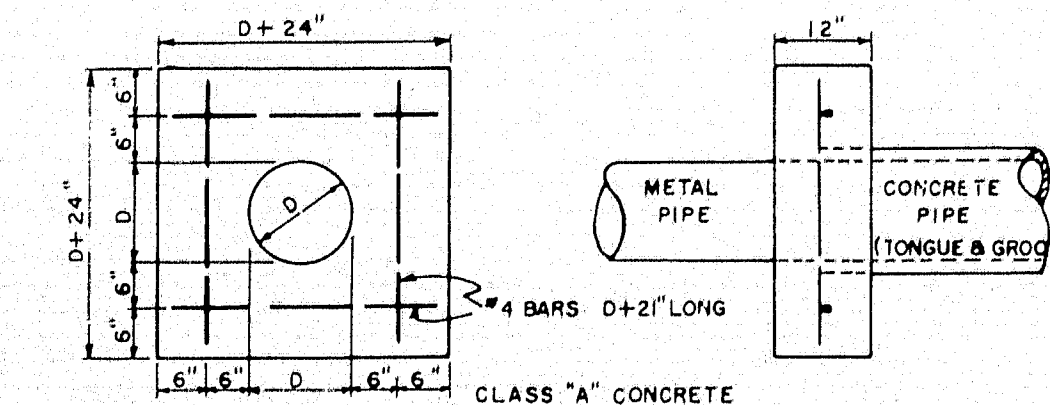
SODDED GUTTER



FIELD STONE CURB



CONCRETE COLLAR



LYONS ROAD - SIDNEY
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS
MISCELLANEOUS ITEMS

SHEET 22A OF 22 MAY 1958