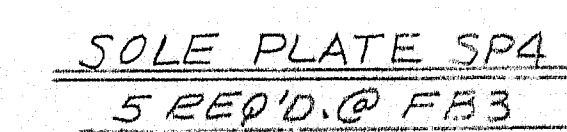
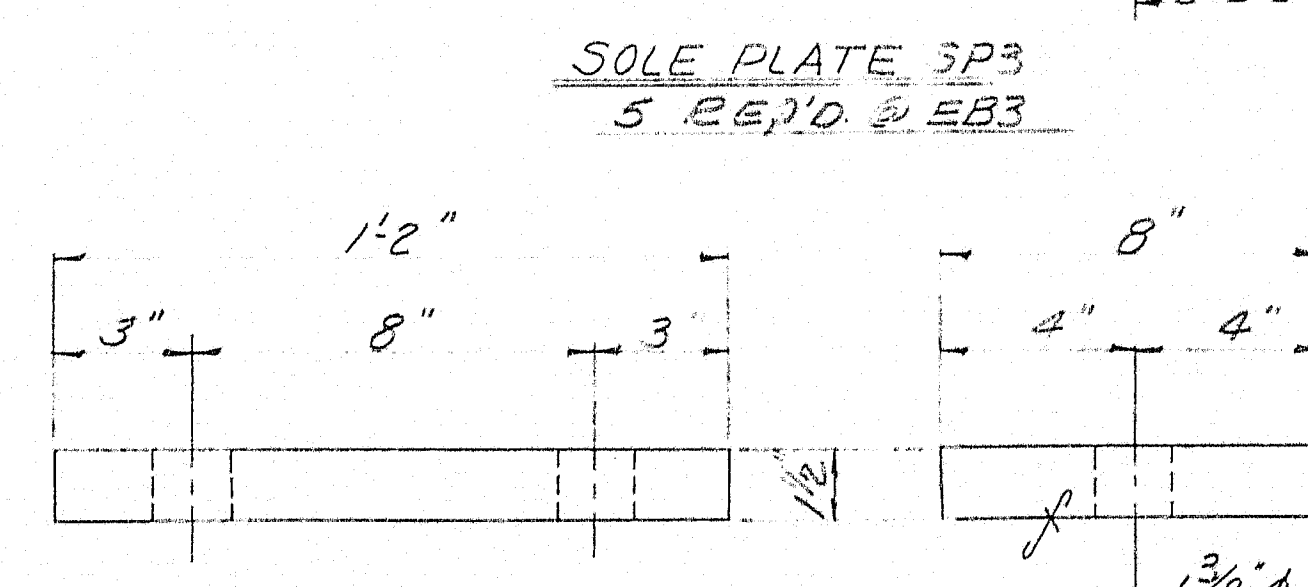
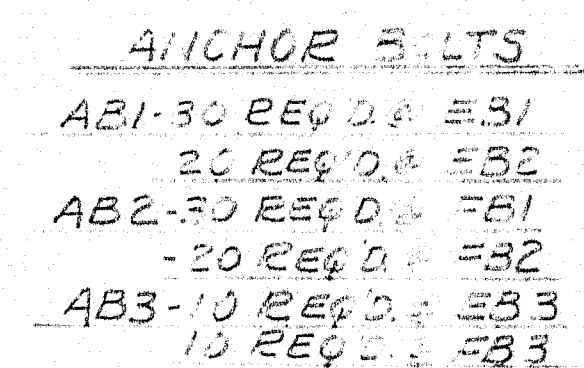
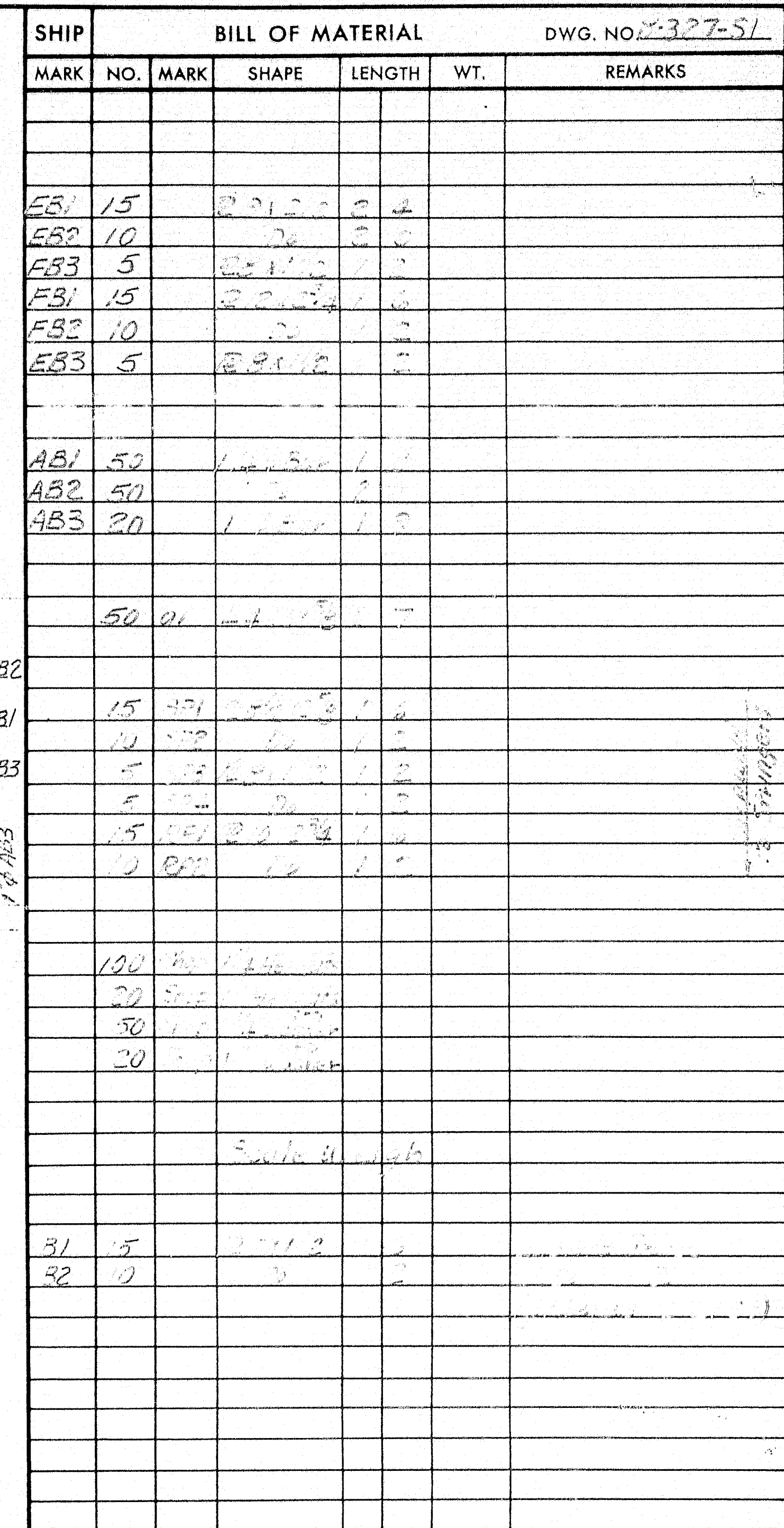


NOTES: All intermediate diaphragms to be 18C42.7, & toe to east
All end diaphragms to be 15C50.
See Dwg. 8-327-S24 for Framing Plan for Bearings & Expansion Joints.

FRAMING PLAN	
Bangor & Martin Rolling Mills Company South Portland 7, Maine	
INTERSTATE #95 OVER STILLWATER AVENUE BANGOR, MAINE	
CUSTOMER H.B. FLEMING, INC. DESIGNER MAINE S.H.C. BRIDGE DIV.	
ORDER NO. VERBAL	DWG. NO. 8-327 E1

DRAWN	12-19-58 LGM
REVISION	2-27-59 LGM
REVISION	
REVISION	

72-123

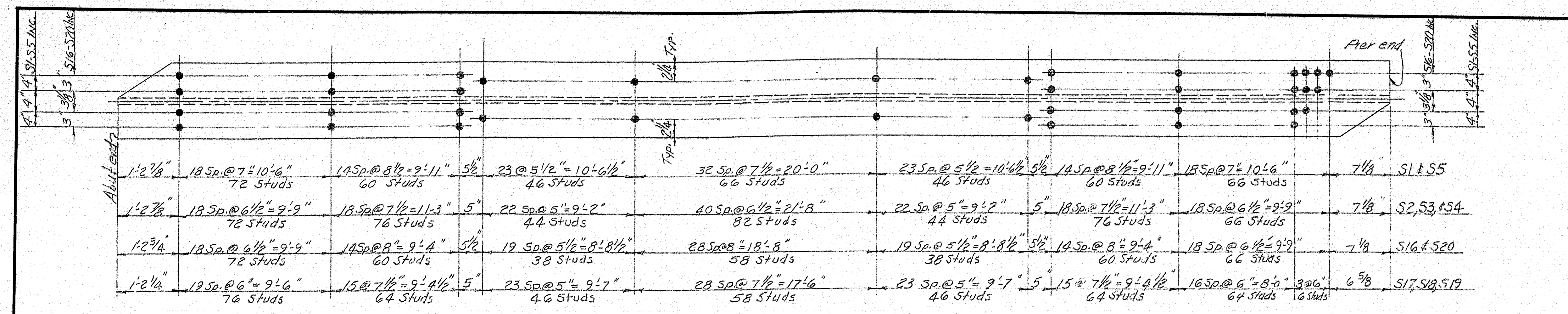


9. 10. 51

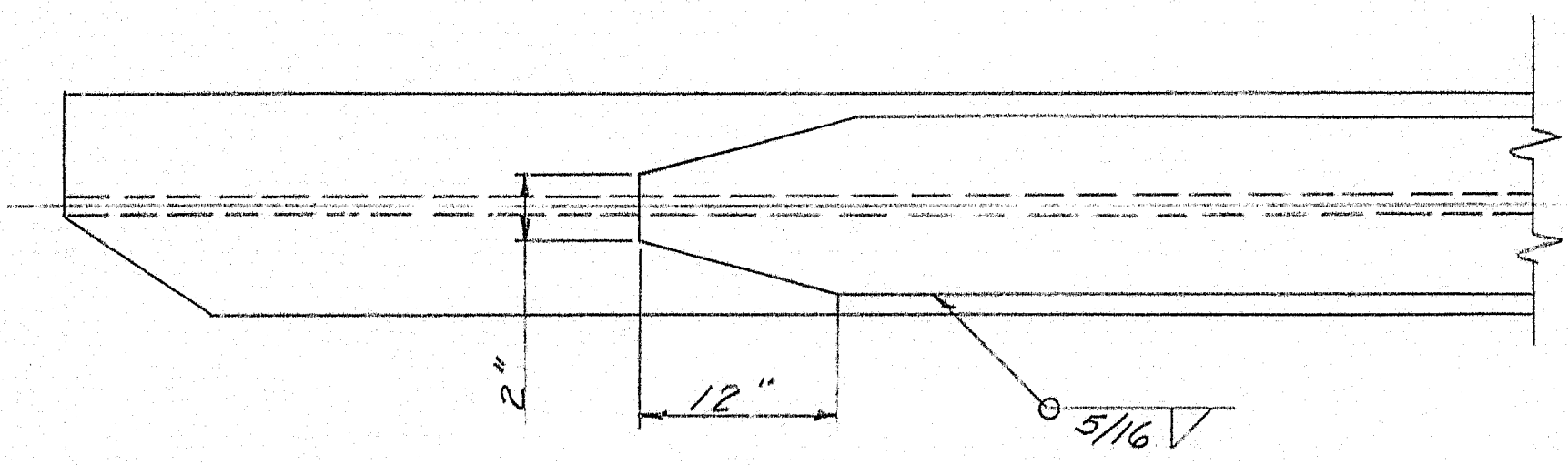
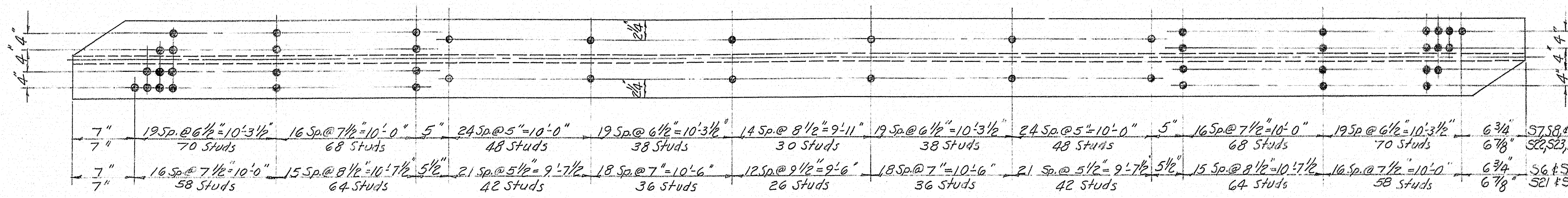
ORDER NO. <u>VERBOD</u>	DWG. NO. <u>2-307-51</u>
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ORDER NO. <u>VERBOD</u>	DWG. NO. <u>2-307-51</u>
-------------------------	--------------------------

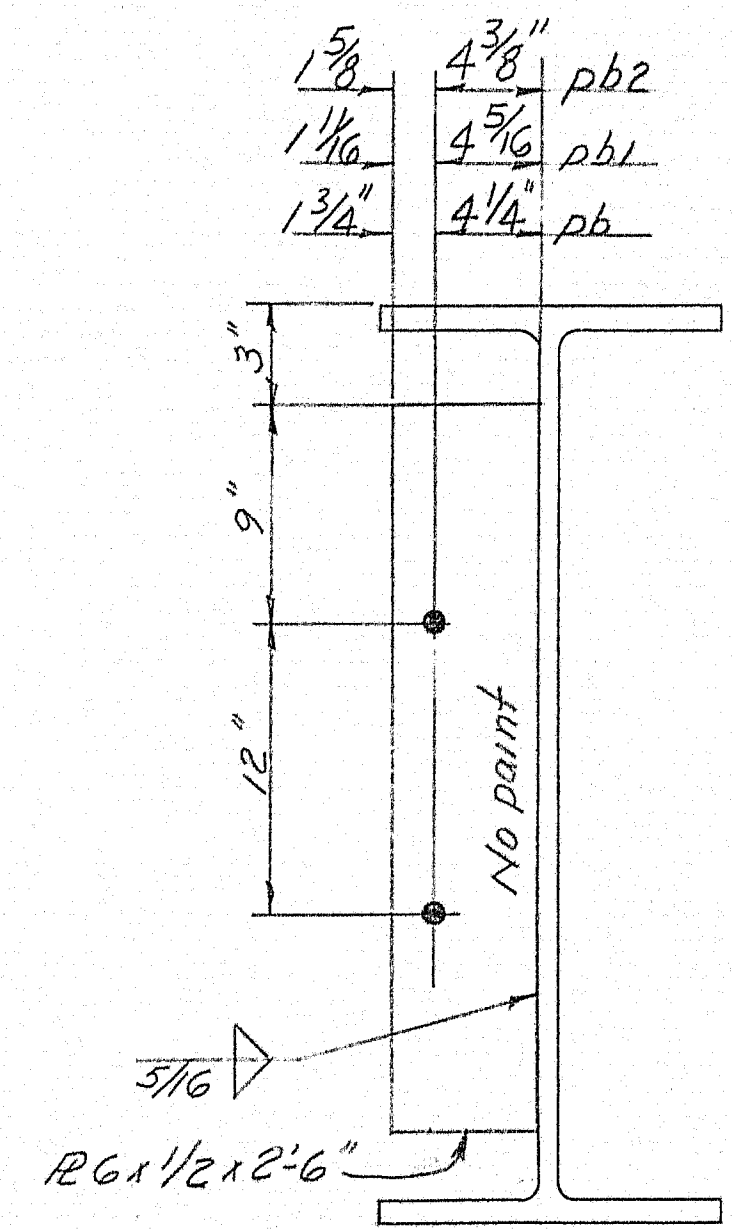
72-124



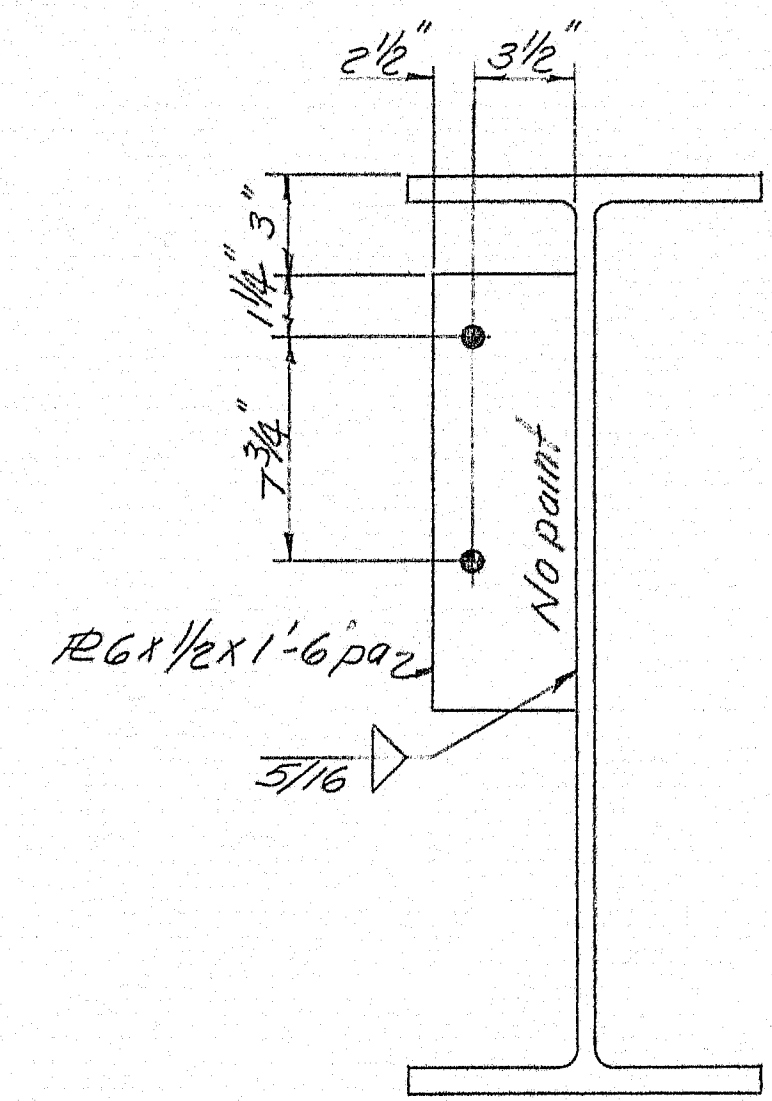
All Studs 3/4" x 4" long



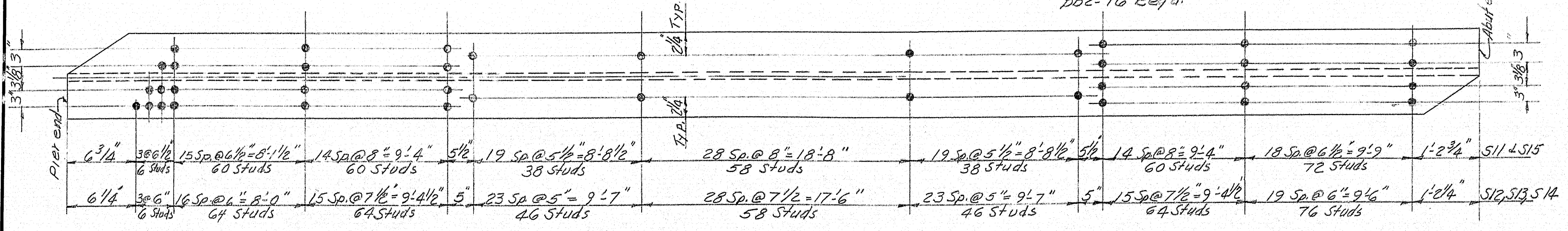
COVER PLATE DETAIL (TYPICAL)



TYPICAL ALL pb CONN. PLATES
pb - 80 Req'd.
pb1 - 100 Req'd.
pb2 - 16 Req'd.



TYPICAL ALL pd CONN. PLATES



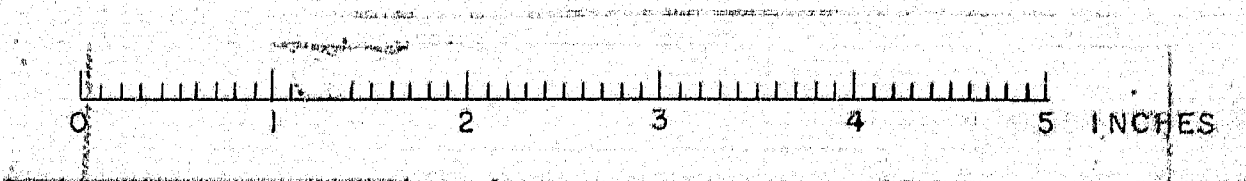
SHIP		BILL OF MATERIAL				DWG. NO. 8-327-52	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
S1			36 WF 230	84	8 3/4		53 #
S2			Do	84	8 3/4		53 #
S3			Do	84	8 3/4		53 #
S4			Do	84	8 3/4		53 #
S5			Do	84	8 3/4		53 #
S6			36 WF 280	93	10 1/4		44 #
S7			Do	93	10 1/4		44 #
S8			Do	93	10 1/4		44 #
S9			Do	93	10 1/4		44 #
S10			Do	93	10 1/4		44 #
S11			36 WF 194	76	11 1/2		17 #
S12			Do	76	11 1/2		17 #
S13			Do	76	11 1/2		17 #
S14			Do	76	11 1/2		17 #
S15			Do	76	11 1/2		17 #
S16			Do	77	10 3/4		26 #
S17			Do	77	10 3/4		26 #
S18			Do	77	10 3/4		26 #
S19			Do	77	10 3/4		26 #
S20			Do	77	10 3/4		26 #
S21			36 WF 280	93	10 1/4		44 #
S22			Do	93	10 1/4		44 #
S23			Do	93	10 1/4		44 #
S24			Do	93	10 1/4		44 #
S25			Do	93	10 1/4		44 #
S26			36 WF 150	43	11 1/4		16 # A-7
S27			Do	43	11 1/4		16 # A-7
S28			Do	43	11 1/4		16 # A-7
S29			Do	43	11 1/4		16 # A-7
S30			Do	43	11 1/4		16 # A-7
2		CP1	R 15 X 1	49	0		44 #
3		CP2	R 15 X 1 1/2	52	0		50 #
4		CP3	R 15 X 3 1/2	55	0		52 #
6		CP4	R 15 X 1 1/2	58	0		46 #
4		CP5	R 11 X 1 1/2	47	0		32 #
6		CP6	R 11 X 1 1/4	49	0		58 #
96		pd	R 6 X 1/2	1	6		A-7
80		pb	R 6 X 1/2	2	6		A-7
100		pb1	Do	2	6		A-7
16		pb2	Do	2	6		A-7
584		pd	R 6 X 1/2	0	174		A-7
10896		Shop	3/4" x 4" x 1/2"	0	4		166 #/lb

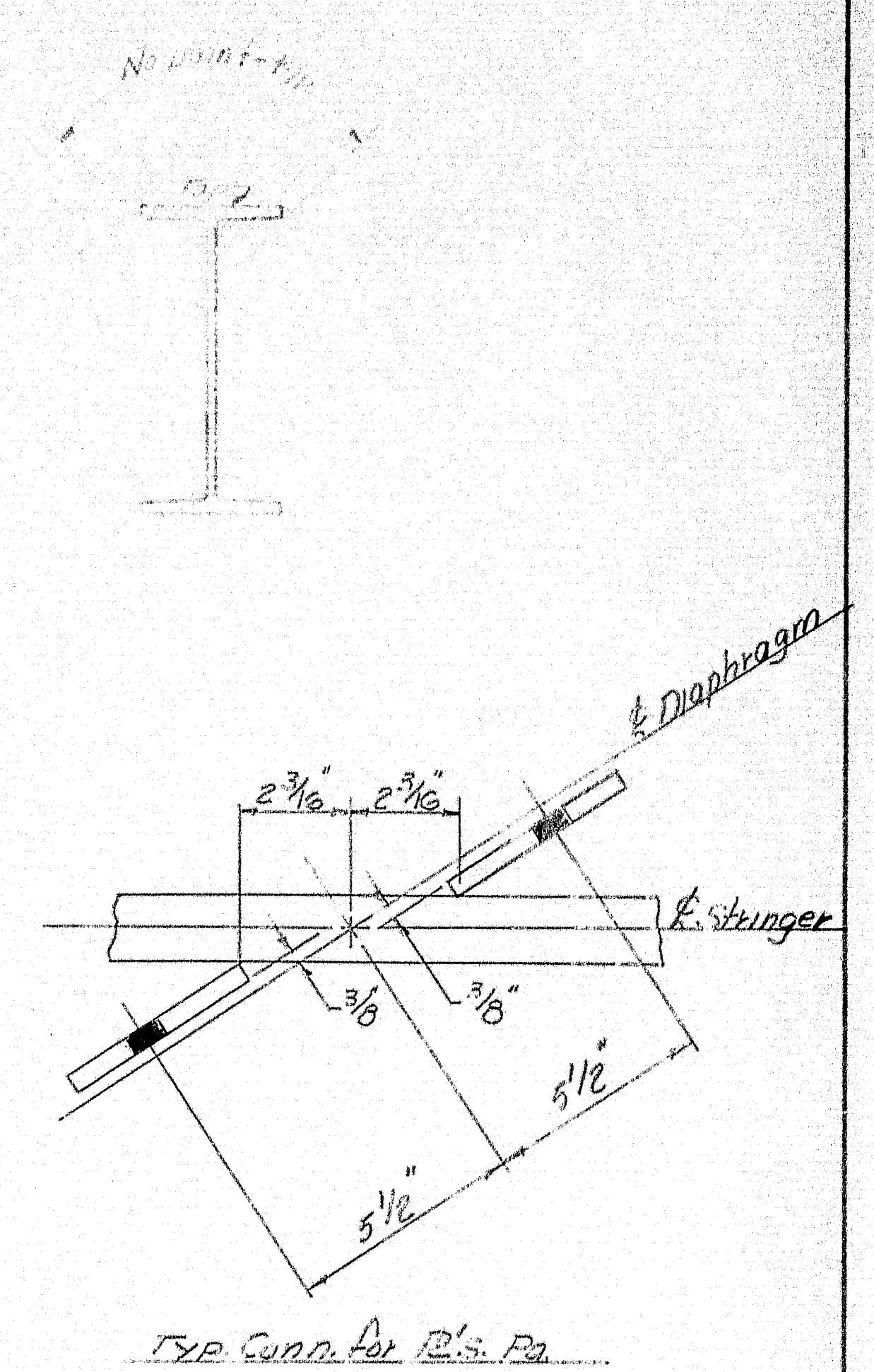
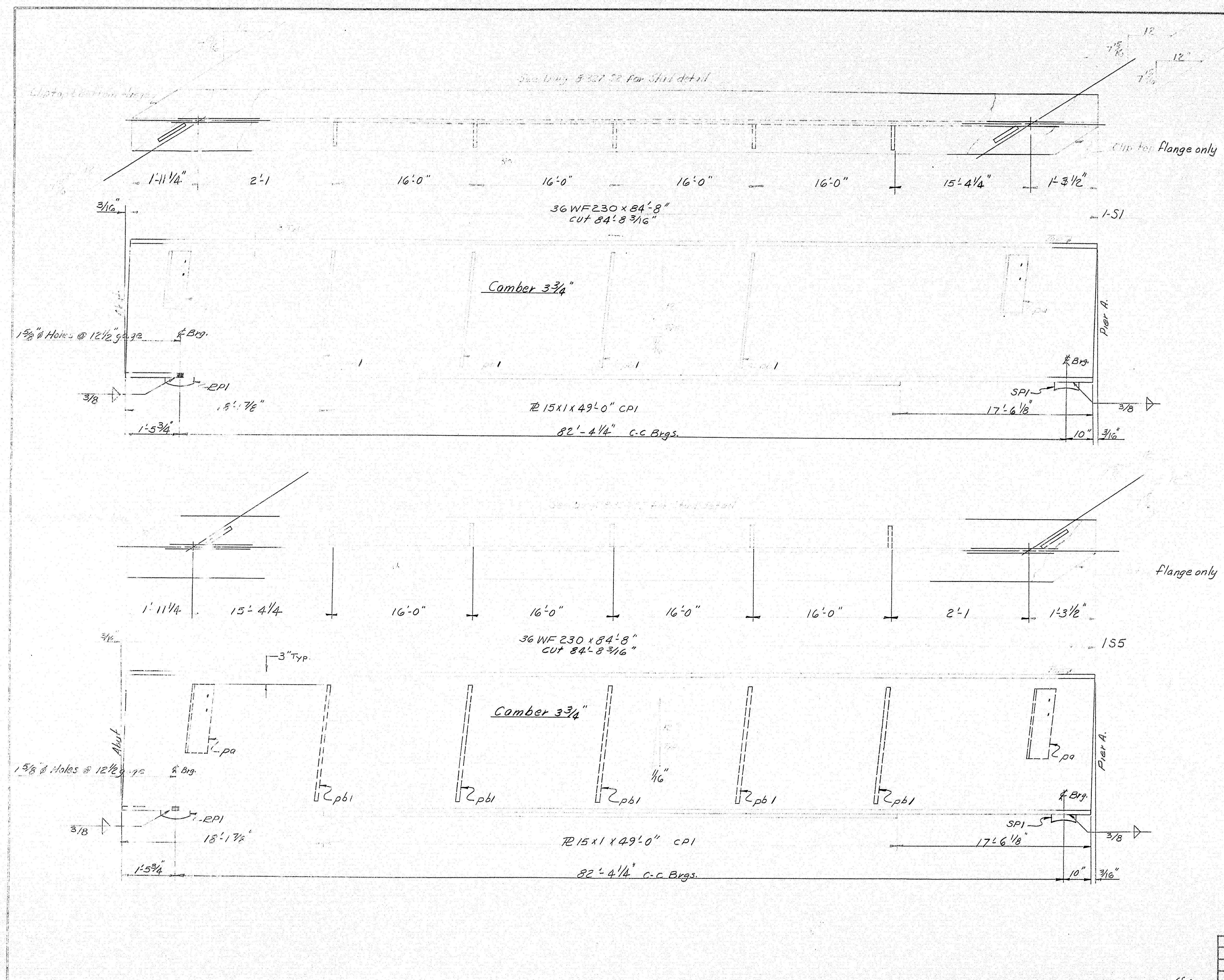
All above Steel ASTM Designation A-373 except as noted.

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Bolted & Welded
HOLES: 1 3/16" Ø
PAINT: Per State of Maine Specs & as noted

STRINGER DETAILS
Bancroft & Martin Rollings Mills Company
South Portland, Maine
INTERSTATE #95
OVER STILLWATER AVENUE
BANGOR, MAINE
CUSTOMER: H.B. FLEMING, INC.
DESIGNER: MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 8-327-52

DRAWN	1-3-58	REGM
REVISION	2-3-59	REGM
REVISION		
REVISION		



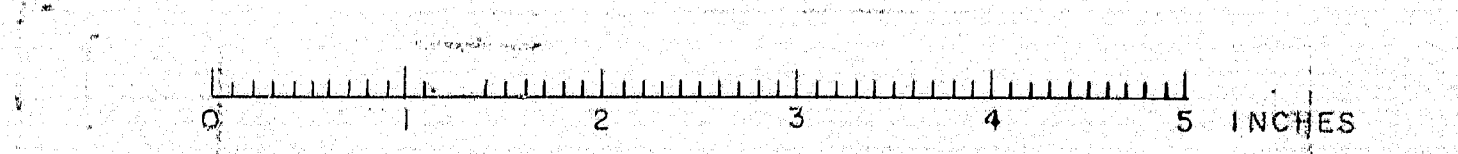


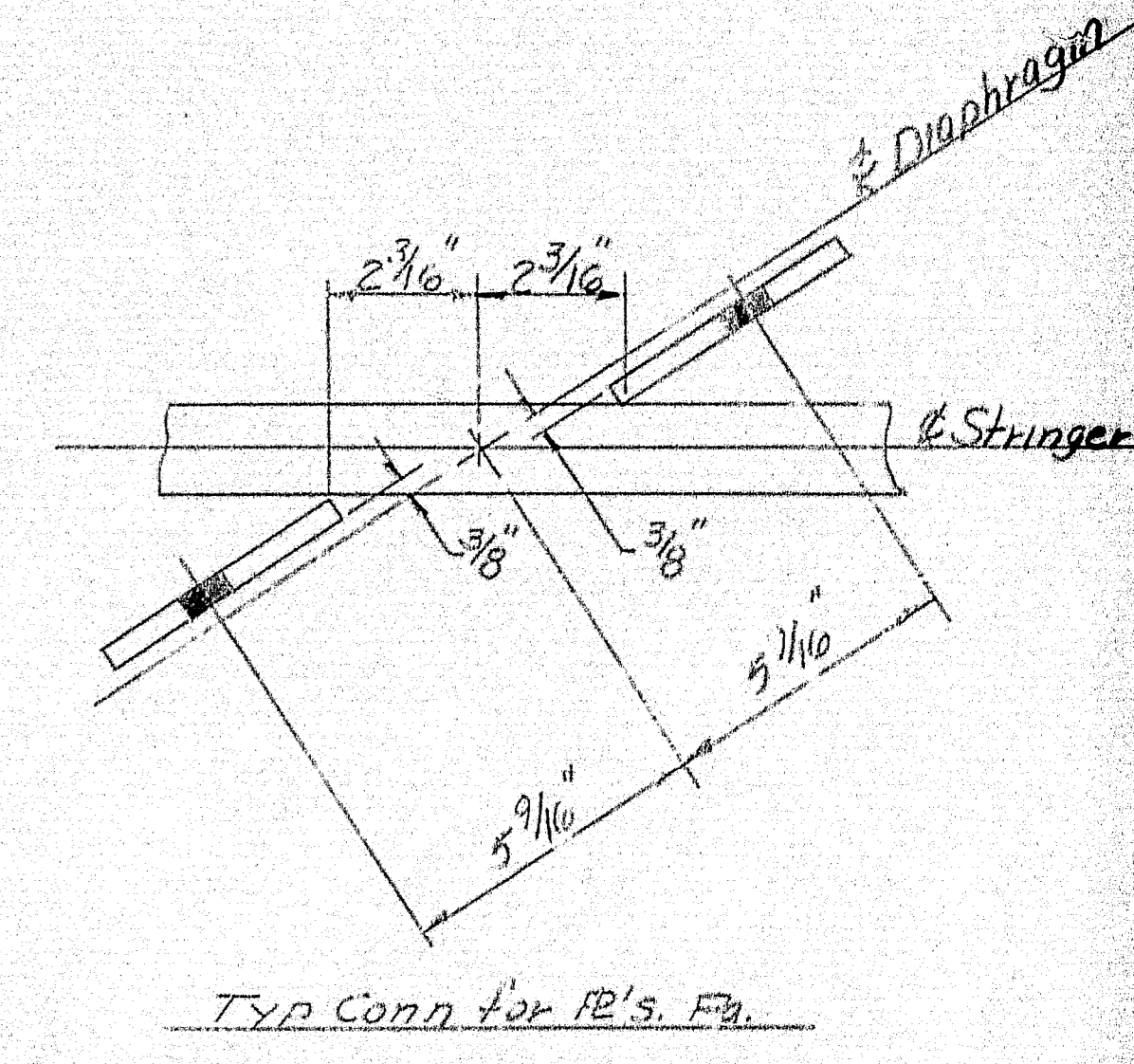
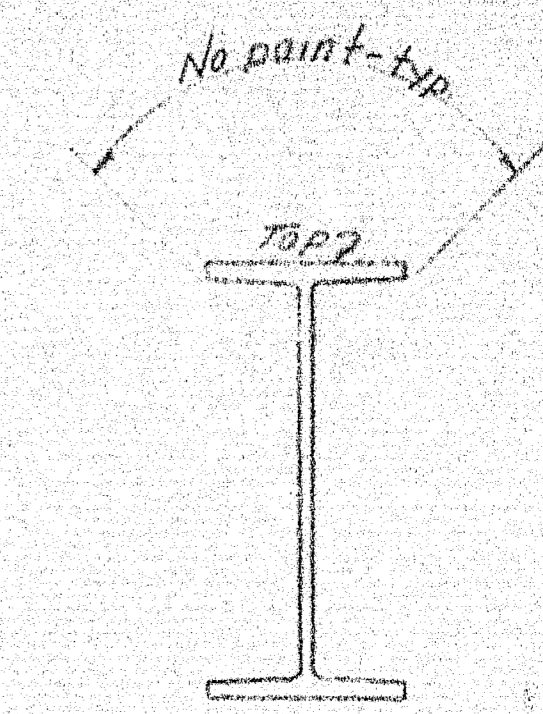
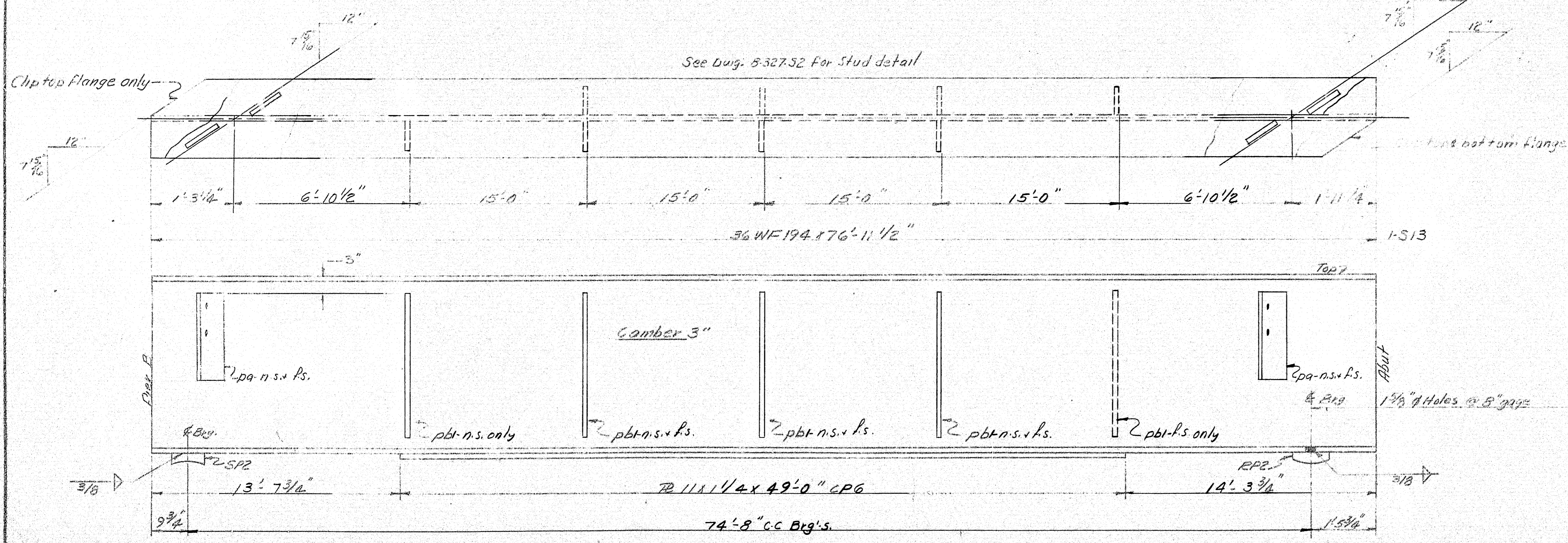
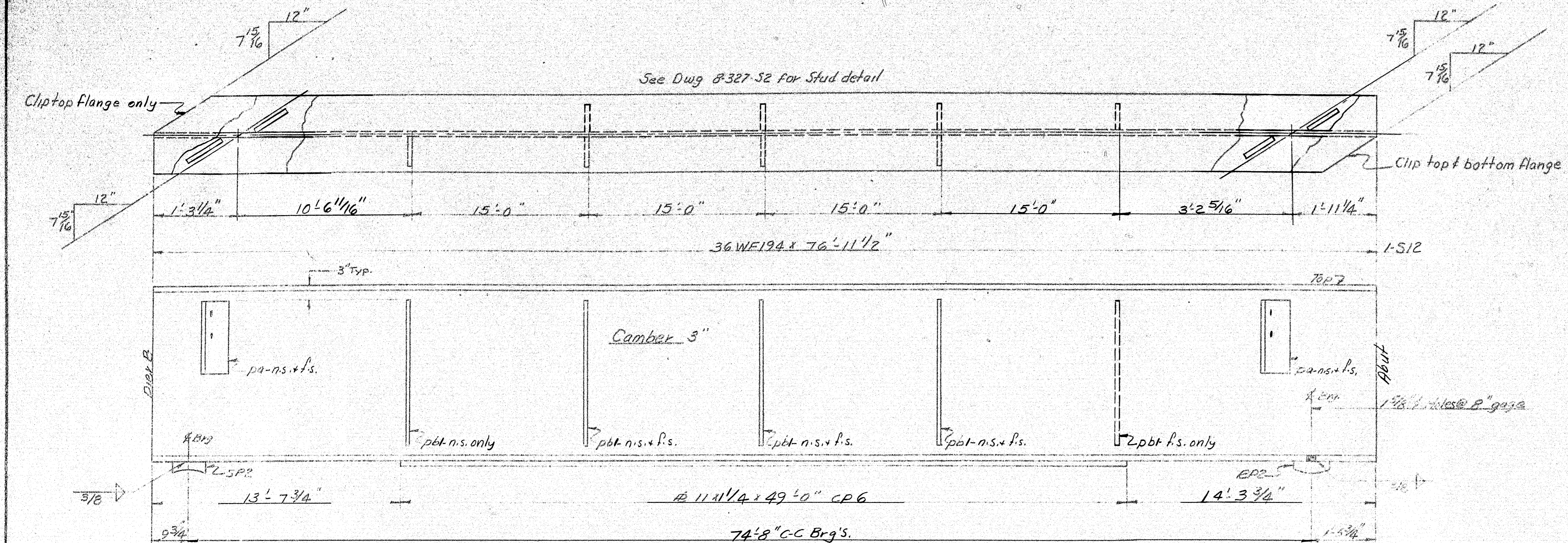
NOTES: See Item 8-327-S2 for
 Detail of Material, Typical Details &
 Connections
 CONTRACTOR SHALL BE RESPONSIBLE FOR
 FIELD OF WORK

STANDARD DETAILS	
Bancroft & Weston Milling, LLC Company	
South Portland, Maine	
INTERSTATE 95	
ONE STEEL WATER AVENUE	
BANGOR, MAINE	
CUSTOMER	MAINE TURNPIKE AUTHORITY
DESIGNER	MAINE TURNPIKE AUTHORITY
ORDER NO.	1000000
DWG. NO.	8-327-S3

DRAWN	12-22-58
REVISION	2-27-59
REVISION	
REVISION	

72-126

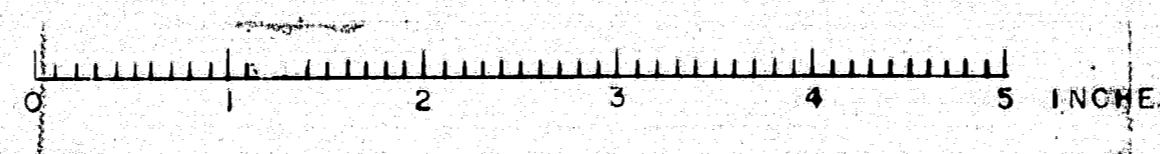


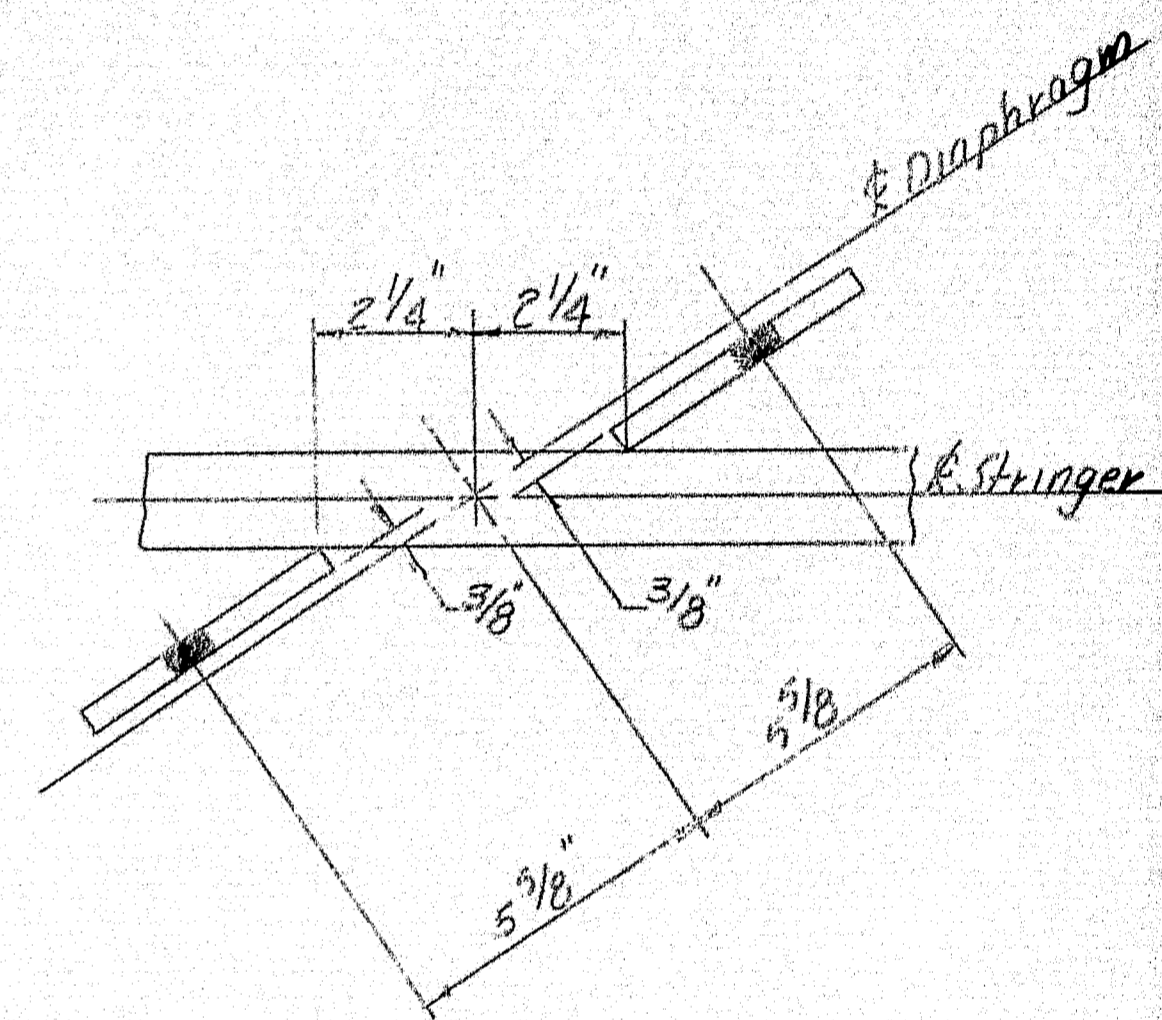
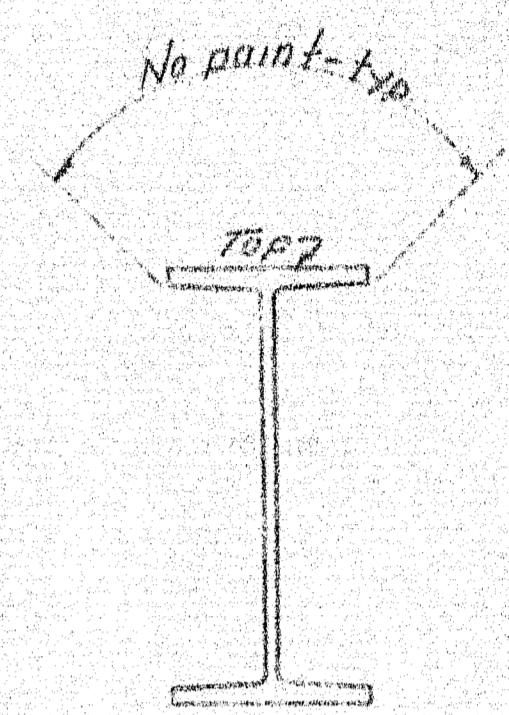
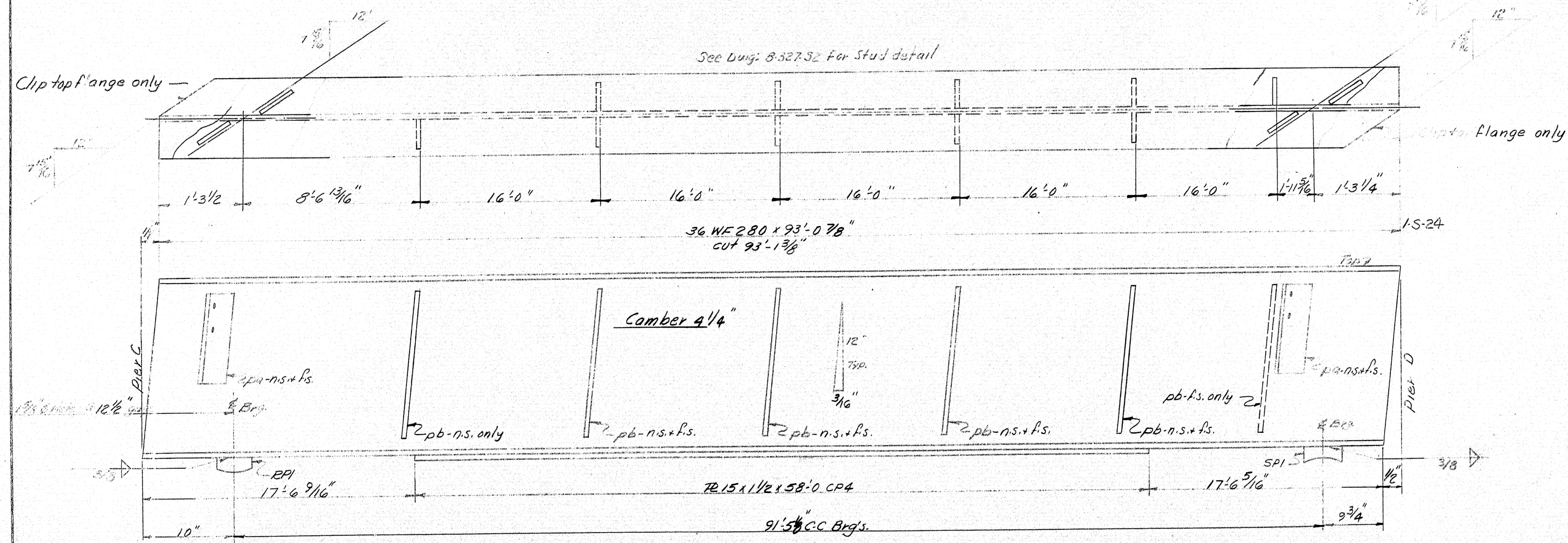
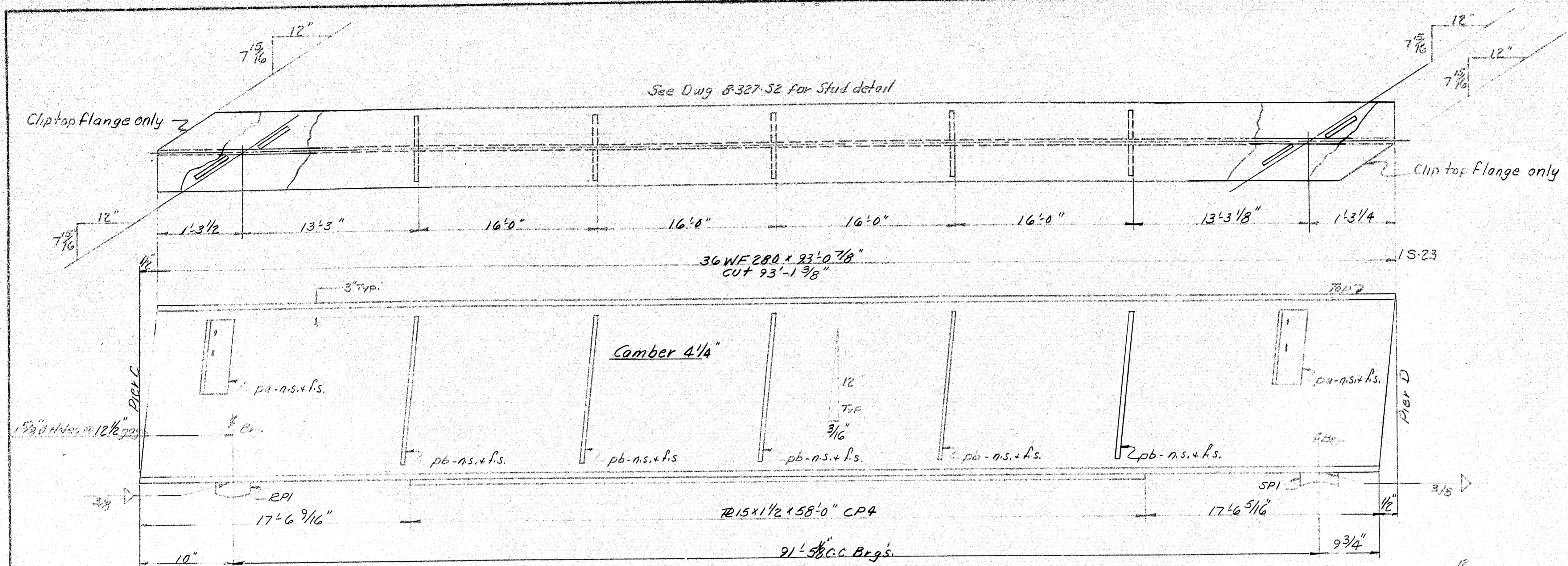


NOTES: See Dwg. # 8-327-S2 for Bill of Material, Typical Details & General notes.
PAINT: Per State of Maine Specs. as Noted.

STRINGER DETAILS	
Bancroft & Norton Rolling Mills Company South Portland 7, Maine	
INTERSTATE #95 OVER STILLWATER AVENUE BANGOR, MAINE	
CUSTOMER	H.B. FLEMING, INC.
DESIGNER	MAINE S.H.C. BRIDGE DIV.
ORDER NO.	VERBAL
DWG. NO.	8-327-S2

DRAWN	12-24-58	RBM
REVISION	2-27-59	GM
REVISION		
REVISION		



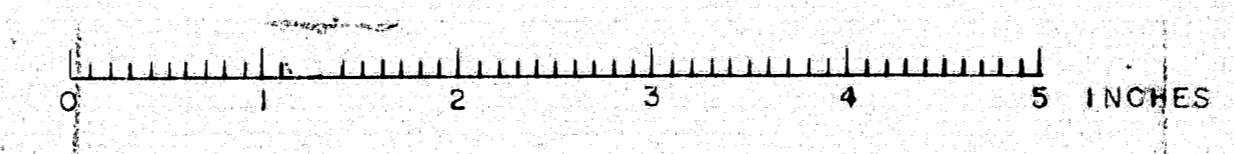


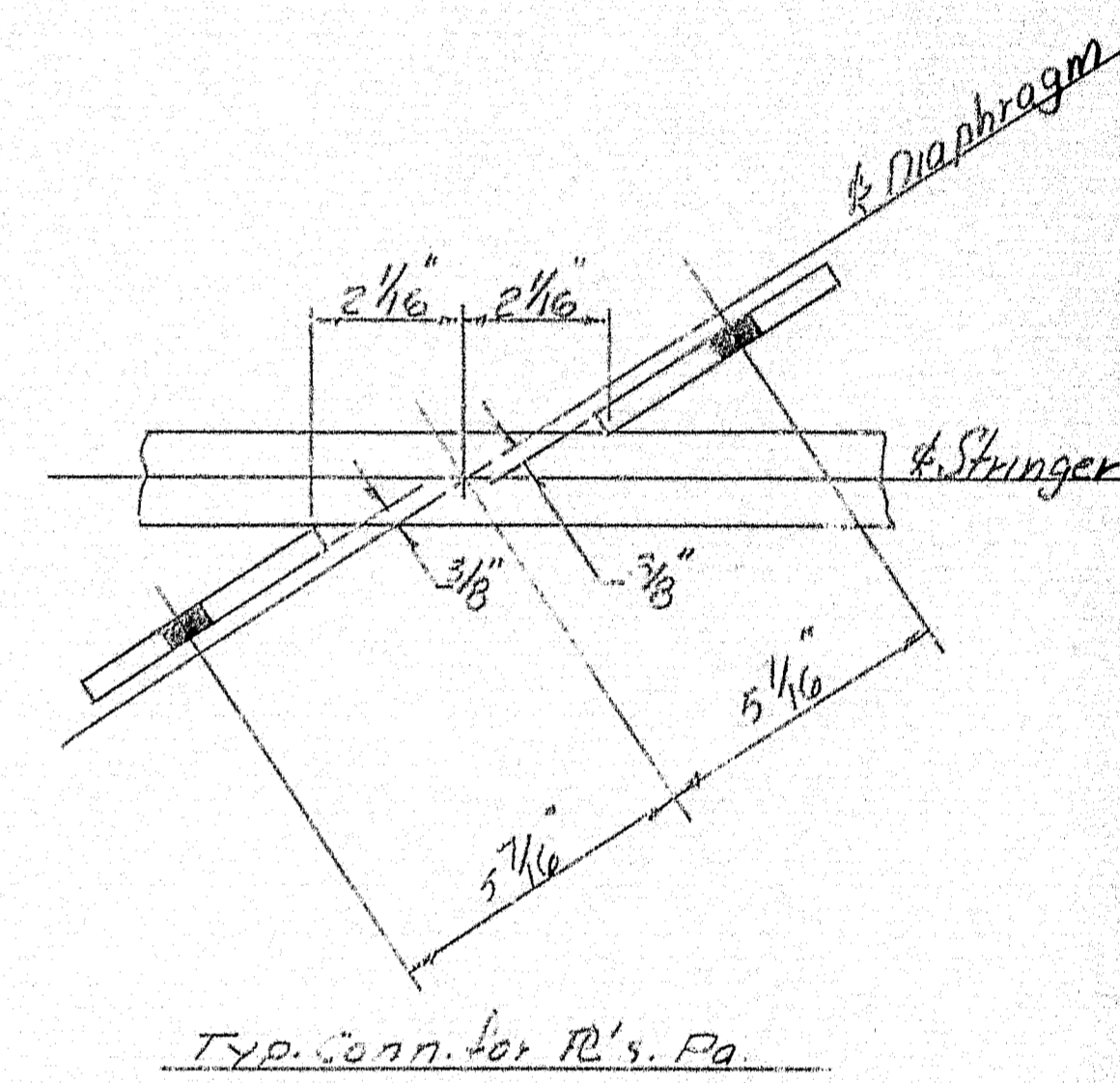
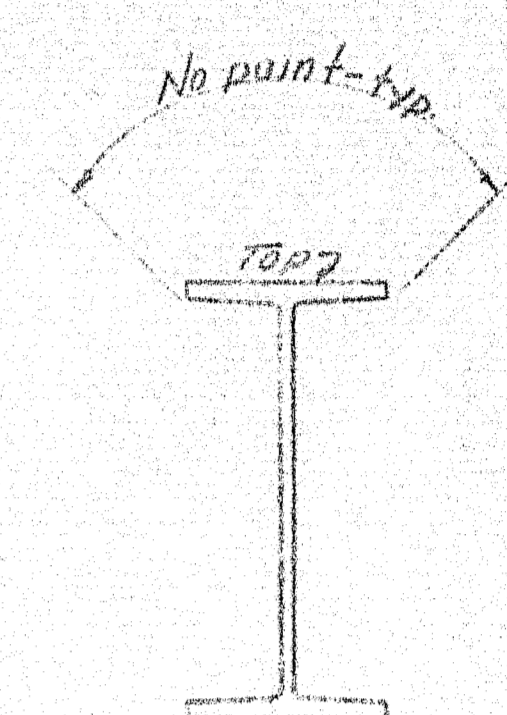
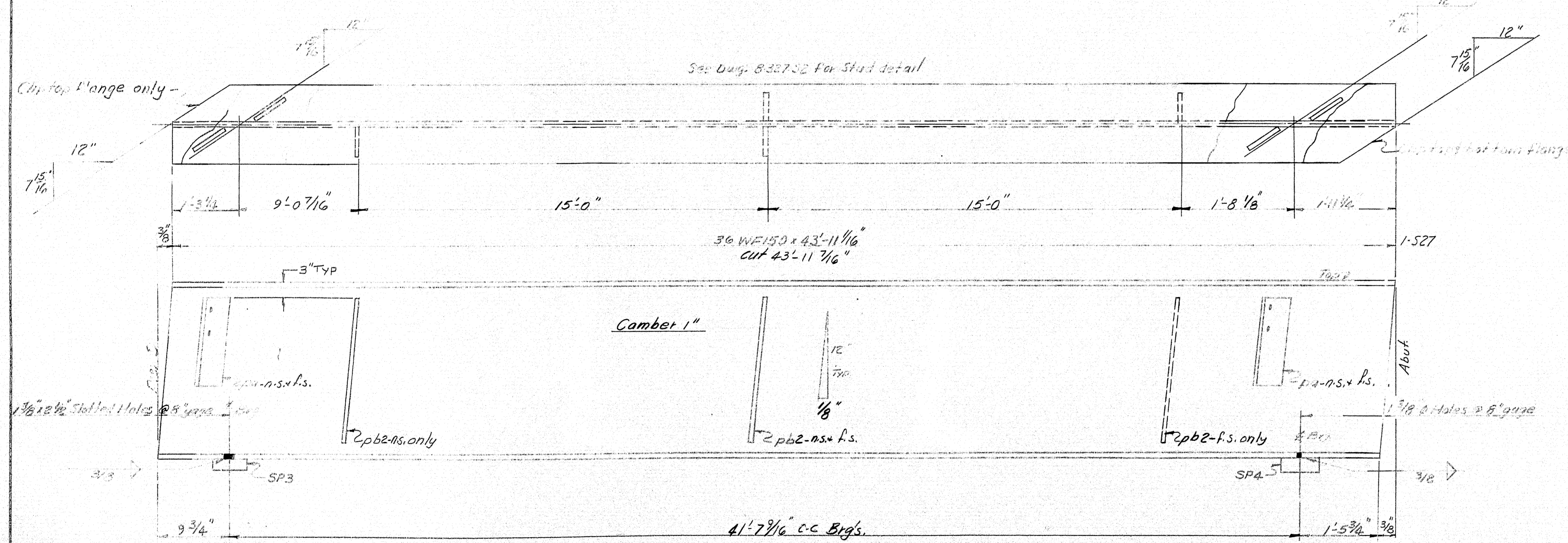
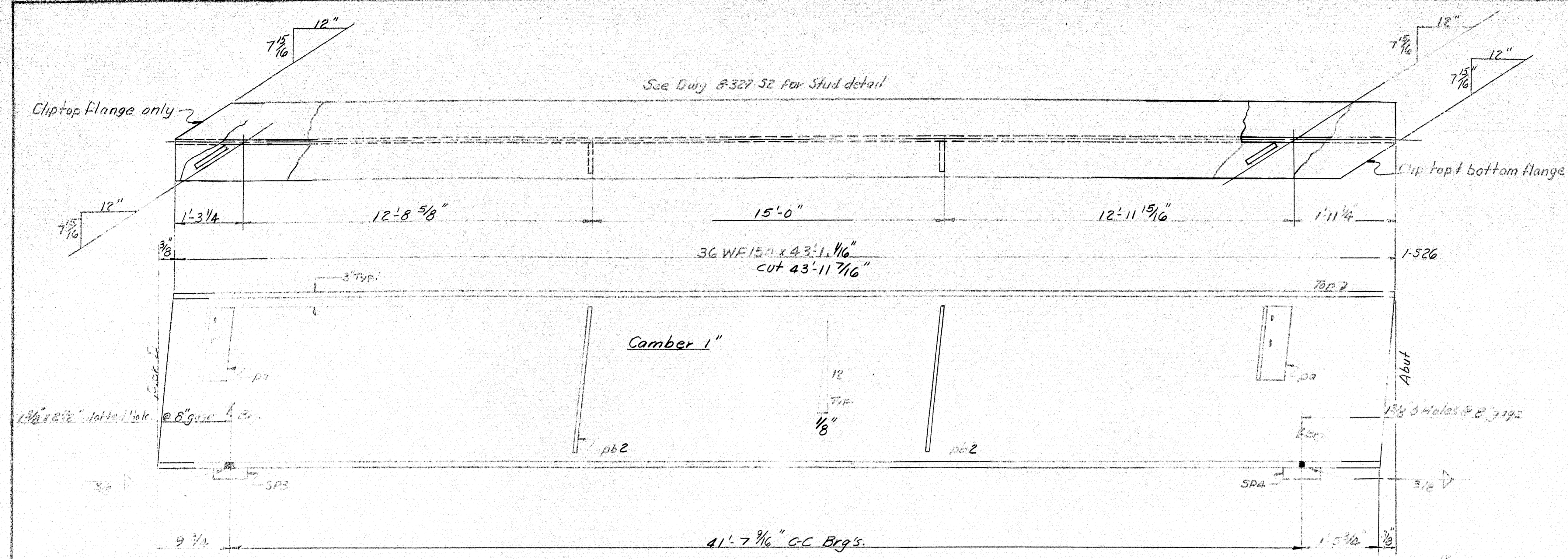
Typ. Conn for R's Pa

NOTES: See Dwg. # 8-327-52 for Bill of Materials, Typical Details & General Notes.
PAINT: Per State of Maine Specs as Noted.

STRINGER DETAILS	
Bancroft & Martin Rolling Mills Company	
South Portland, Maine	
INTERSTATE #95	
OVER STILLWATER AVENUE	
BANGOR, MAINE	
CUSTOMER	H. A. FLEMING, INC.
DESIGNER	MAINE S.H.C. BRIDGE DIV.
ORDER NO.	VEERAL
DWG. NO.	8-327-S15

DRAWN	1230-58	DEM
REVISION	2-28-59	DEM
REVISION		
REVISION		



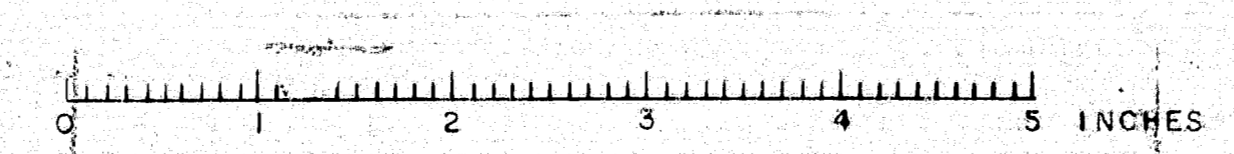


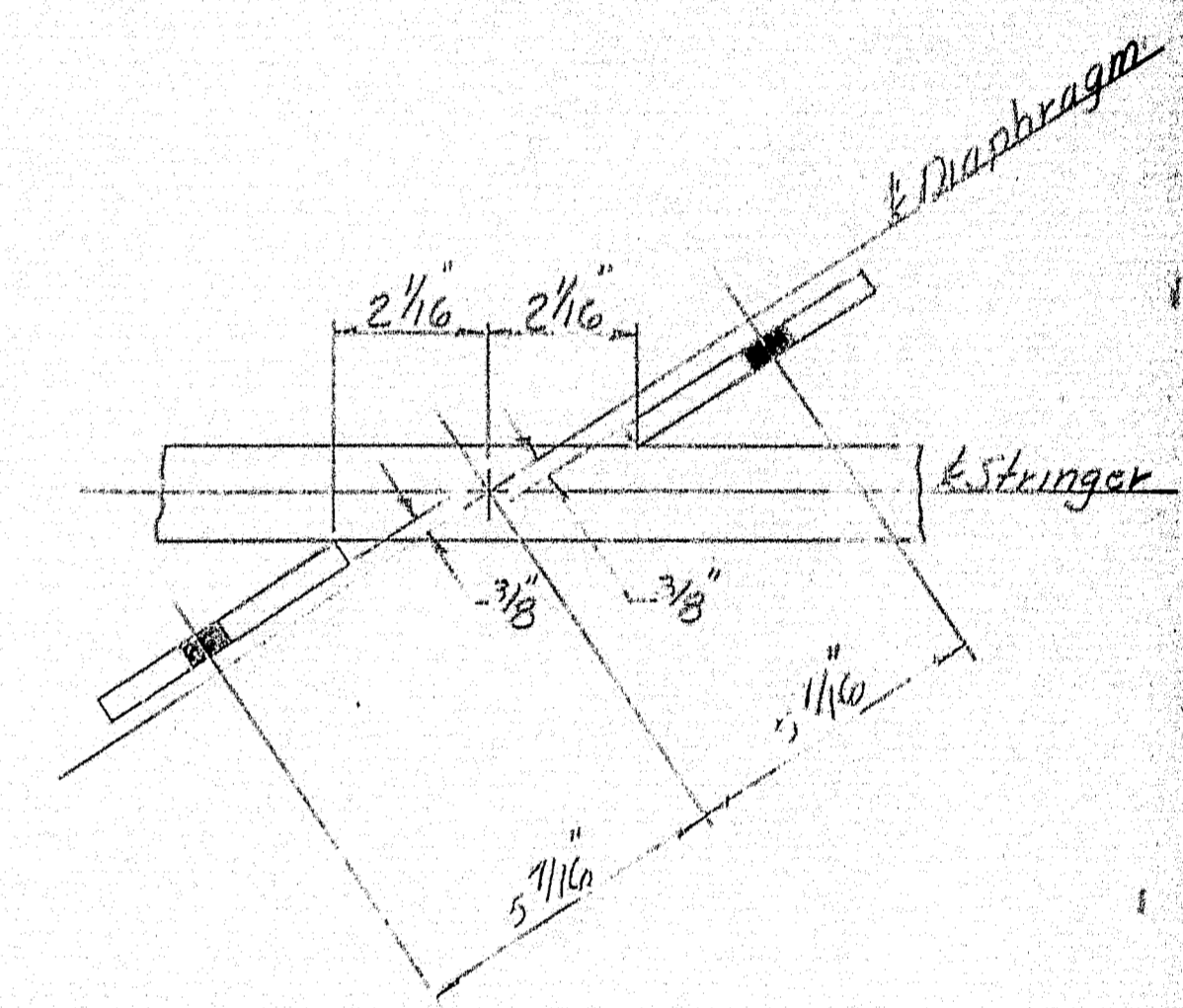
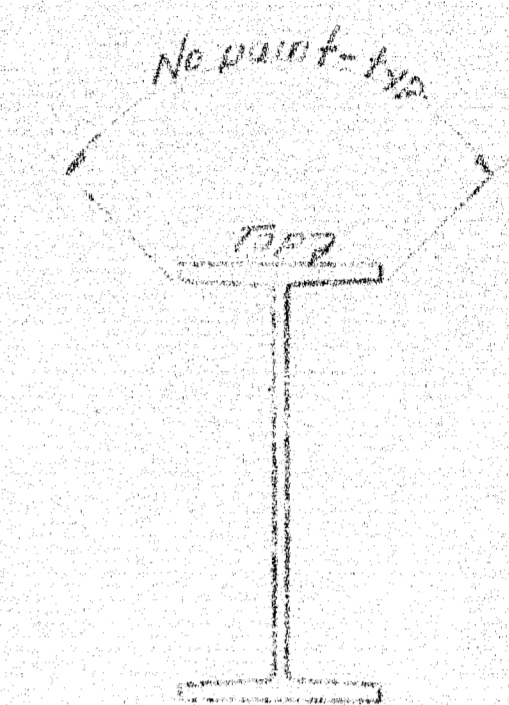
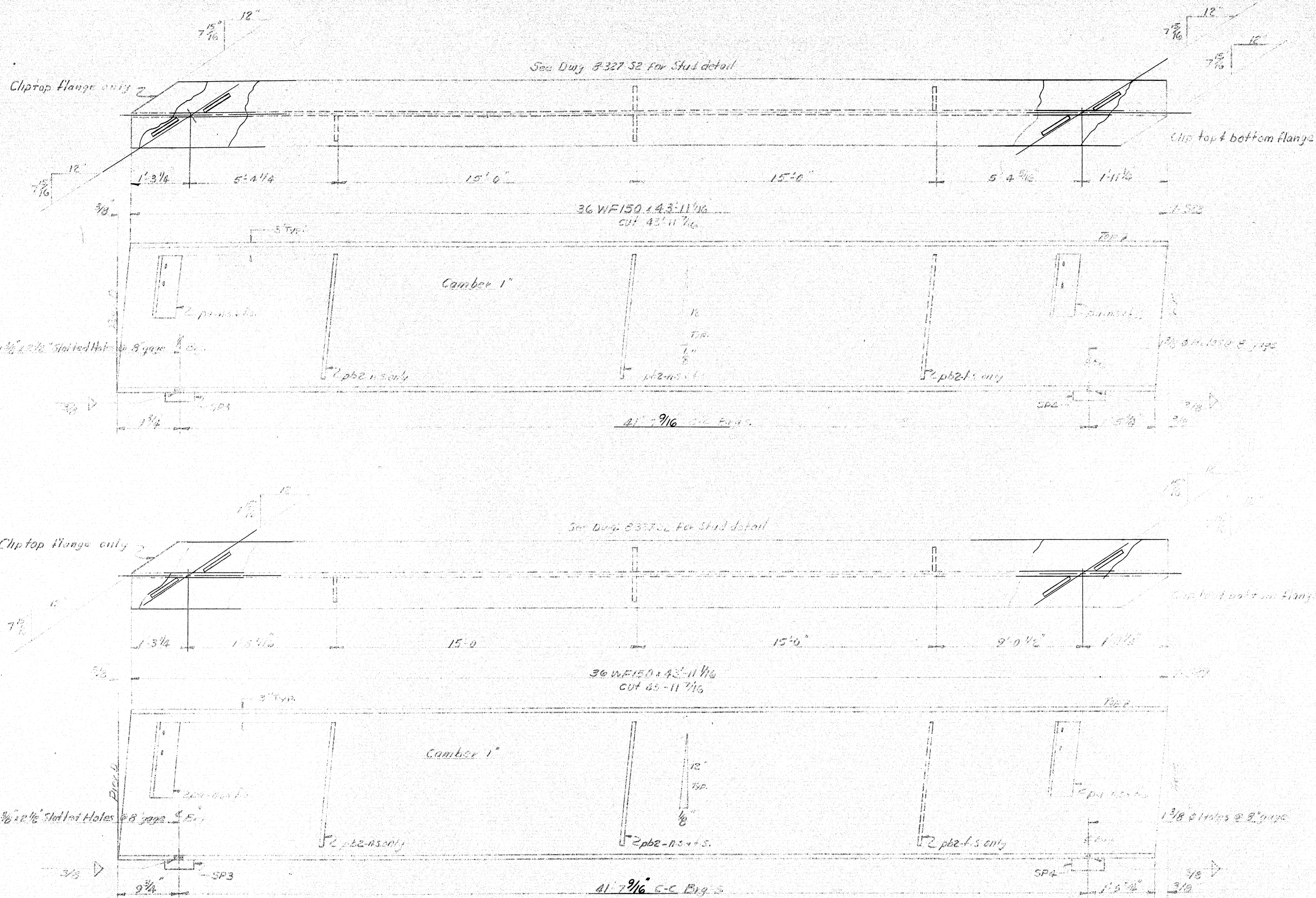
NOTES: See Dwg. # B-327-S2 for Bill of Material, Typical Details & General Notes.

PAINT: Per State of Maine Specs. has Noted.

DRAWN	12/31/58	CBM
REVISION	2/28/59	CBM
REVISION		
REVISION		

STRINGER DETAILS	
Bancroft & Martin Rolling Mills Company	
South Portland, Maine	
INTERSTATE #95	
OVER STILLWATER AVENUE	
BANGOR, MAINE	
CUSTOMER	H. B. FLEMING, INC.
DESIGNER	MINNIE S. H. C. BRIDGE DIV.
ORDER NO.	VERBAL
DWG. NO.	B-327-S16





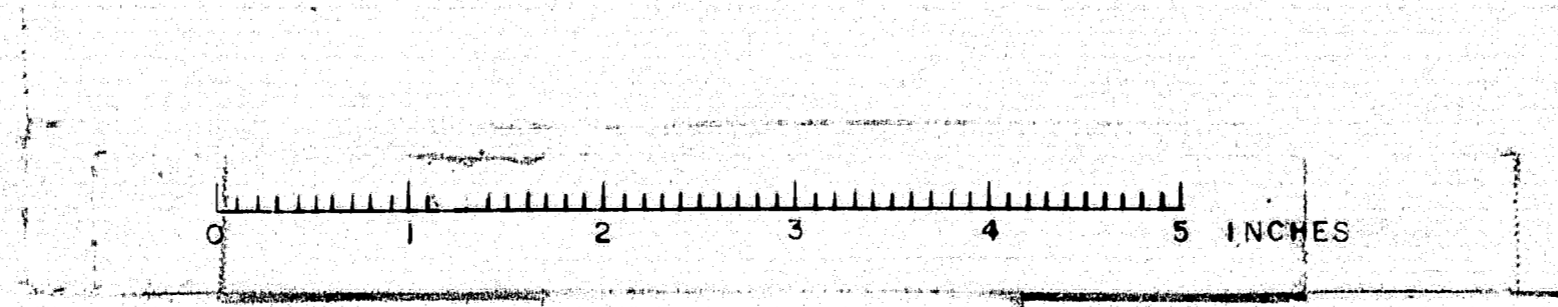
TYP. Conn. for 2s Pa.

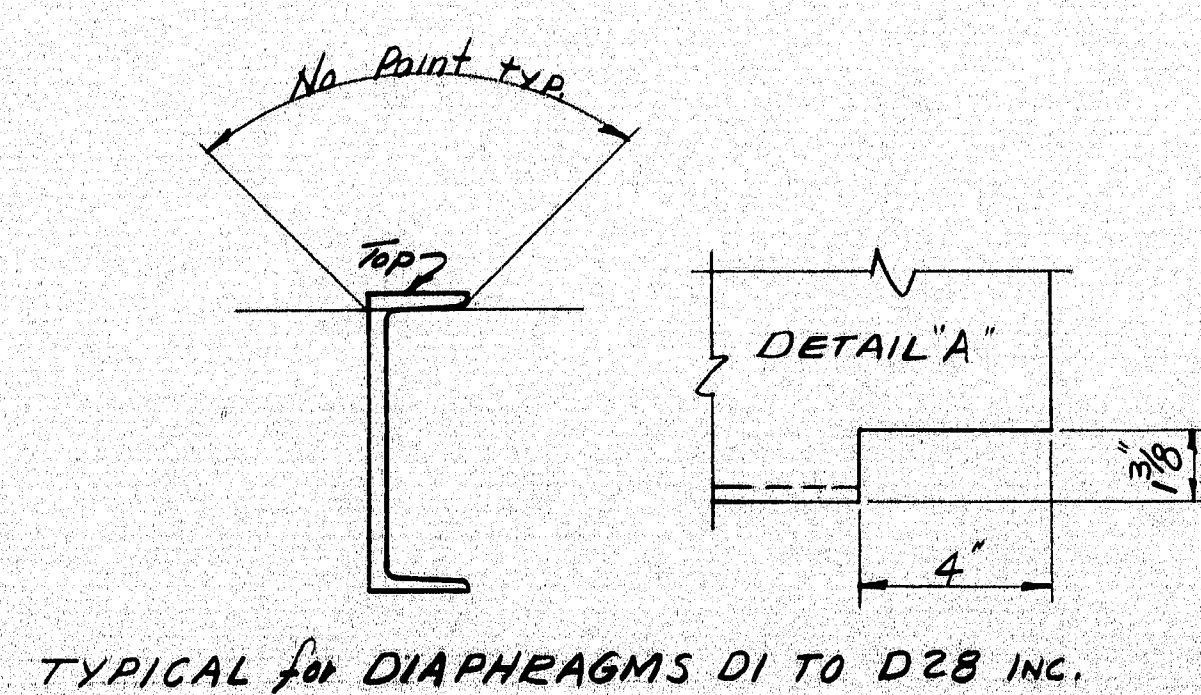
NOTES: See Dwg. 8-327-S2 for Bill of Material, Typical Details & General Notes.

FOOTING FOR STATE OF MAINE SPEC'S FOR NOTED

STRINGER DETAILS	
Bancroft & Martin Rolling Mills Company	
South Portland 7, Maine	
INTERSTATE #95	
OVER STILLWATER AVENUE	
BANGOR, MAINE	
CUSTOMER H.B. FLEMING, INC.	
DESIGNER WANE S.H.C. BRIDGE DIV.	
ORDER NO. 16884	DWG. NO. 8-327-S17

DRAWN	18-11-53
REVISION	22-11-53
REVISION	
REVISION	



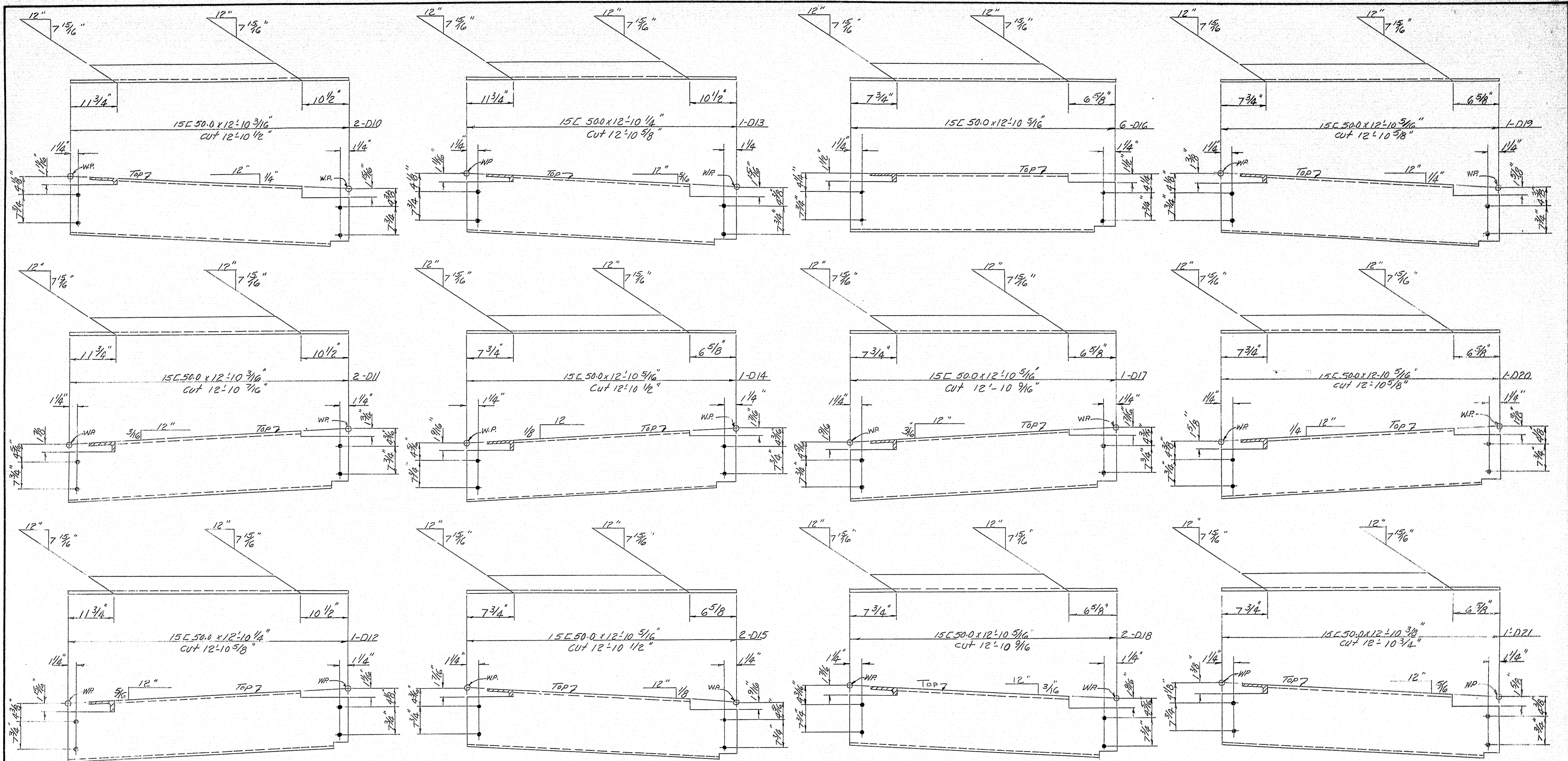


SHOP CONNECTIONS:
FIELD CONNECTIONS: Bolted & Welded
HOLES: 1 3/16" Ø
PAINT: Per State of Maine Specs. & as noted. Do not paint 5" from each end of Diaphragms

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

CUSTOMER H.B. FLEMING, INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

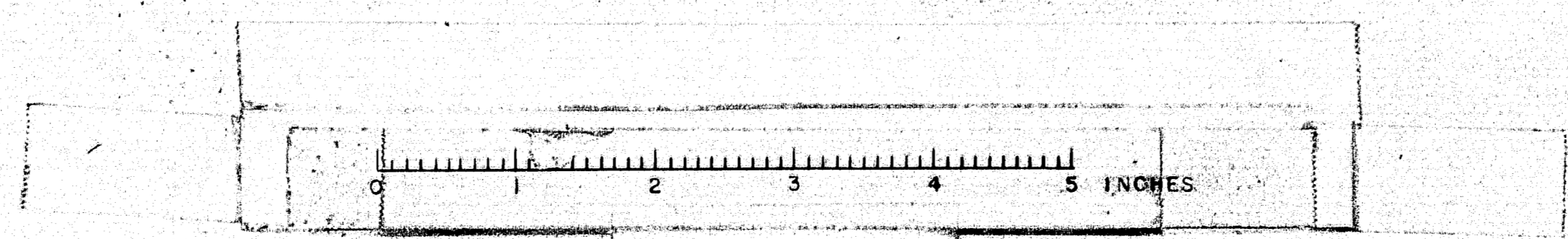
DRAWN	1-6-59	RGM
REVISION	3-4-59	RGM.
REVISION		
REVISION		

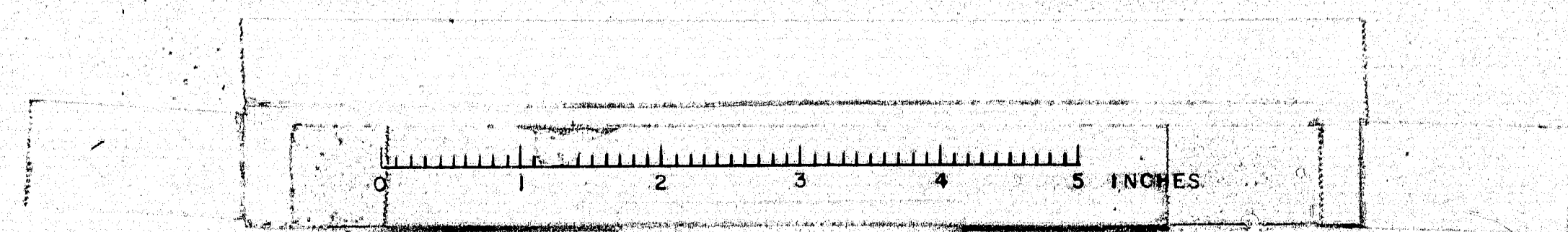
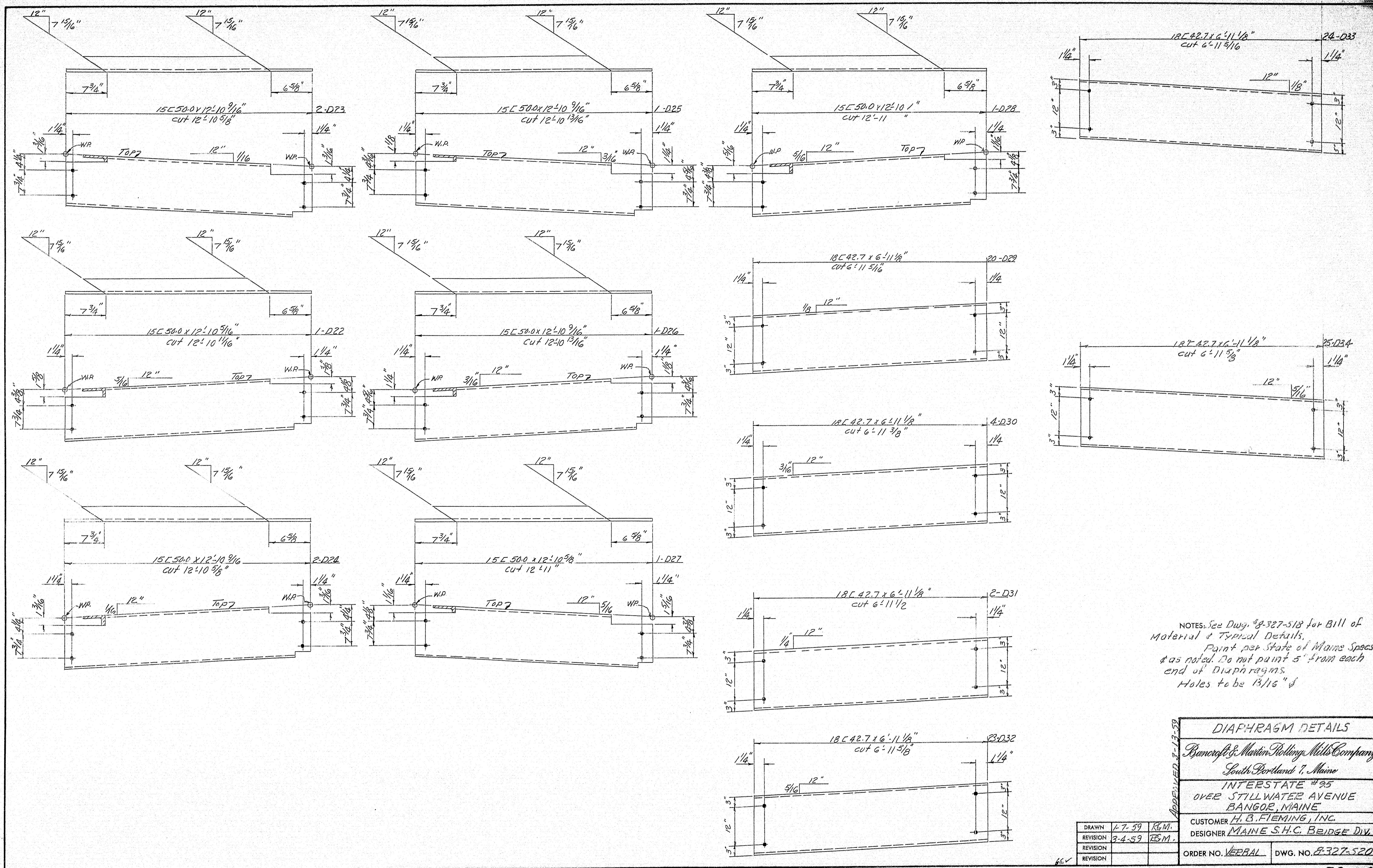


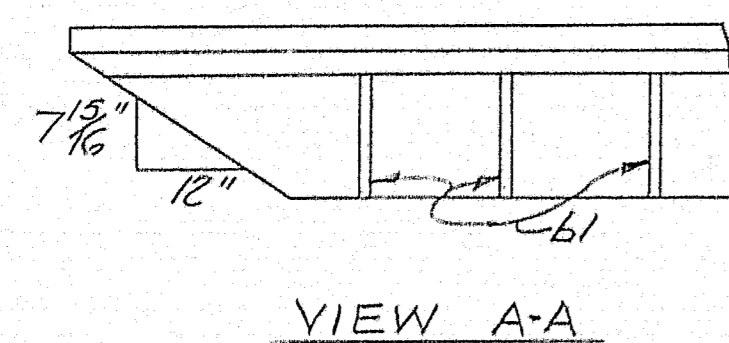
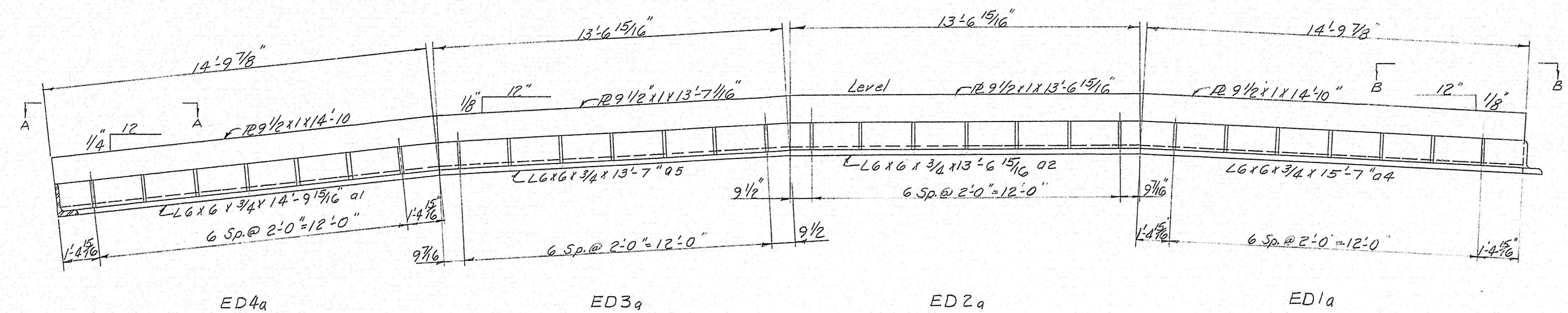
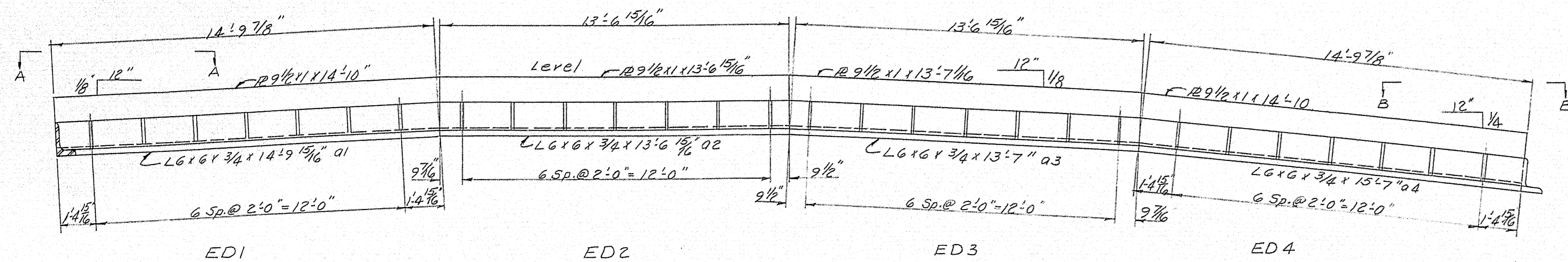
NOTES:
See Dwg. # 8-327-S18 for Bill of Material & Typ. Details
Paint per State of Maine Specs. and as noted.
Do not paint 5" from each end of Diaphragms.
Holes to be 13/16" ϕ

DIAPHRAGM DETAILS	
Bancroft & Martin Rollings Mills Company	
South Portland 7, Maine	
INTERSTATE #95	
OVER STILLWATER AVENUE	
BANGOR, MAINE	
CUSTOMER H.B. FLEMING, INC.	
DESIGNER MAINE S.H.C. BRIDGE DIV.	
ORDER NO. VERBAL	DWG. NO. 8-327-S19

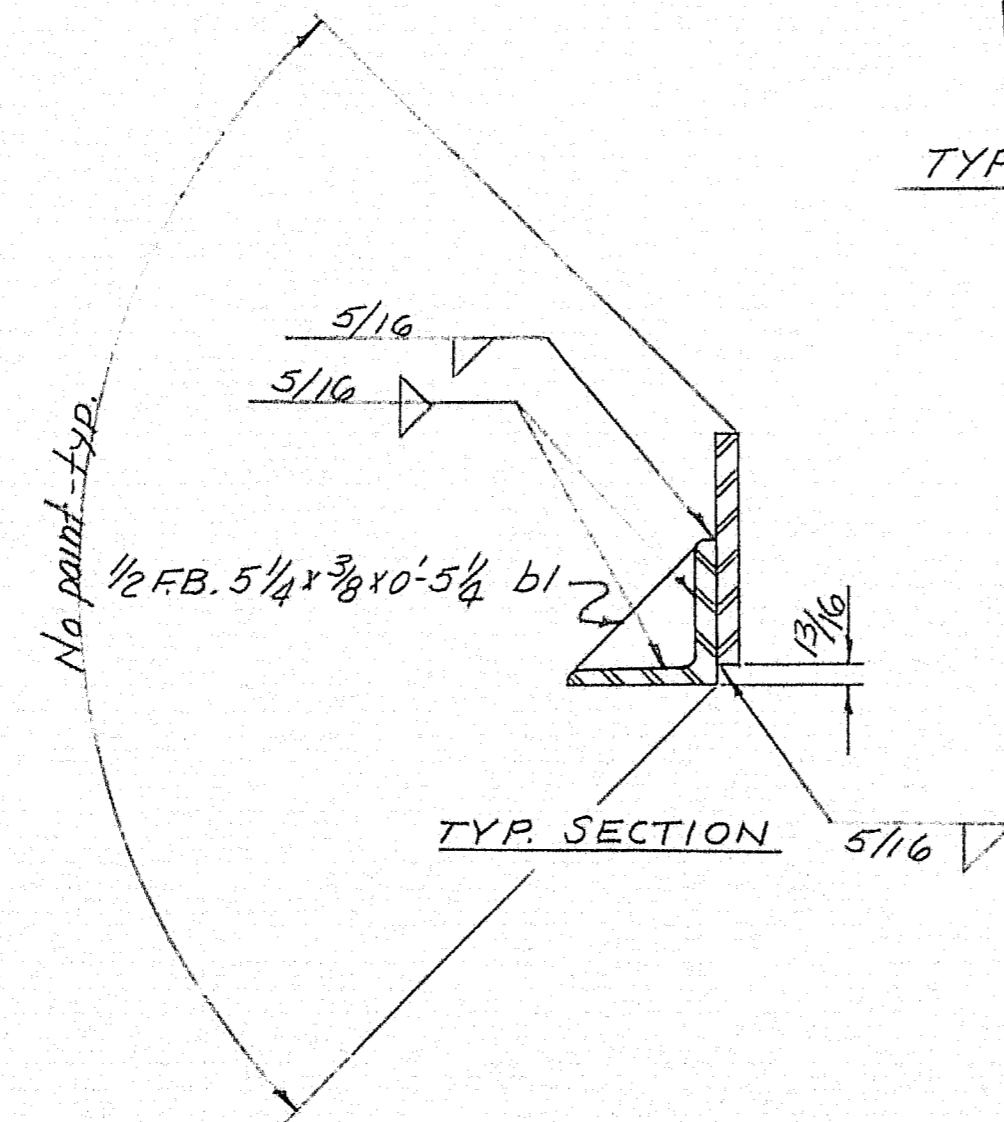
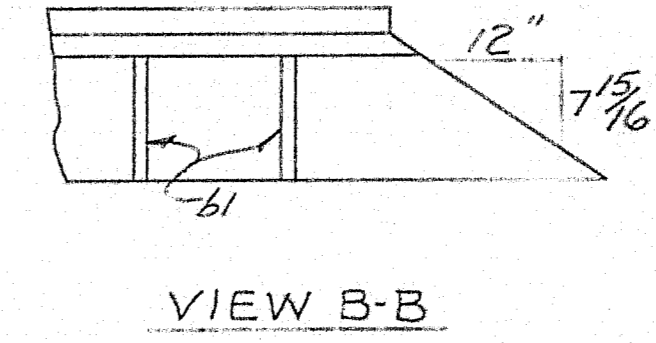
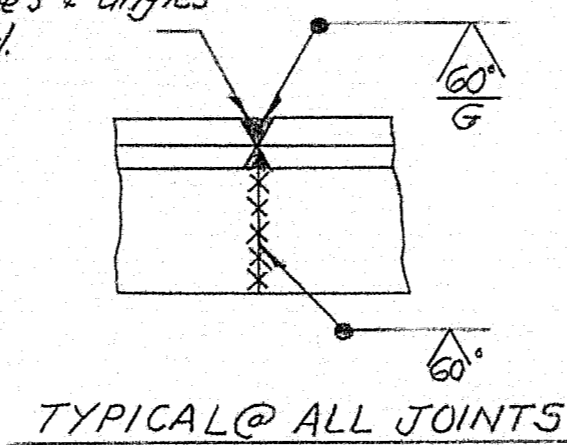
DRAWN	27-58	EGM
REVISION	3-4-59	EGM
REVISION		
REVISION		



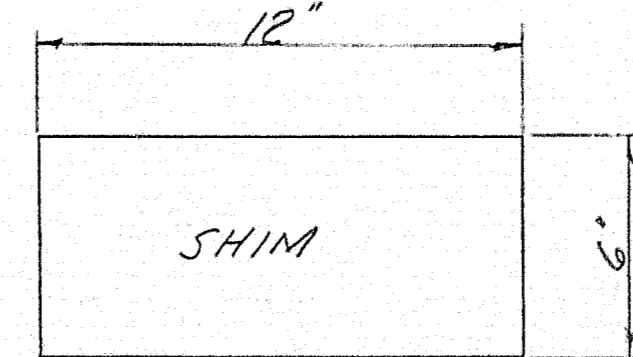




Berel ends of R's & angles
30° for field weld.



NOTE
Shim to grade as required
& weld with 5/16 fillet.



1/4" NORMAL
SHIM "A" 1/4 THICK 40 REQ'D.
SHIM "B" 1/8 Do 40 Do
SHIM "C" 1/16 Do 80 Do

SHIP		BILL OF MATERIAL				DWG. NO. 8-327-S21	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	WT. DED.	REMARKS
ED1	1		R 9 1/2 x 1	14 10			
ED1a	1		Do	14 10			
ED2	1			13 6 15/16			
ED2a	1			13 6 15/16			
ED3	1			13 7 1/16			
ED3a	1			13 7 1/16			
ED4	1			14 10			
ED4a	1			14 10			
ED5	1			14 9 15/16			
ED5a	1			14 9 15/16			
ED6	1			13 7			
ED6a	1			13 7			
ED7	1			13 7 1/16			
ED7a	1			13 7 1/16			
ED8	1			14 9 15/16			
ED8a	1			14 9 15/16			
ED9	1			14 9 7/8			
ED9a	1			14 9 7/8			
ED10	1			13 7			
ED10a	1			13 7			
ED11	1			13 7 1/16			
ED11a	1			13 7 1/16			
ED12	1			14 9 15/16			
ED12a	1			14 9 15/16			
ED13	1			14 9 15/16			
ED13a	1			14 9 15/16			
ED14	1			13 7			
ED14a	1			13 7			
ED15	1			13 7 1/16			
ED15a	1			13 7 1/16			
ED16	1			14 10			
ED16a	1			14 10			
EJ1	1		FB 6 x 1	0 9 1/16			5 1/2
EJ1a	1		Do	0 9 1/16			5 1/2
EJ2	3			0 9 1/16			15 1/2
EJ2a	3			0 9 1/16			15 1/2
EJ3	2			0 9 1/16			10 1/2
EJ3a	2			0 9 1/16			10 1/2
EJ4	2			0 9 1/16			10 1/2
EJ4a	2			0 9 1/16			10 1/2
	3	01	LG 6 x 3/4	14 9 15/16			13 1/2
	2	02	Do	13 6 15/16			
	3	03	Do	13 7			
	3	04	Do	15 7			14 1/2
	3	05	Do	13 7			

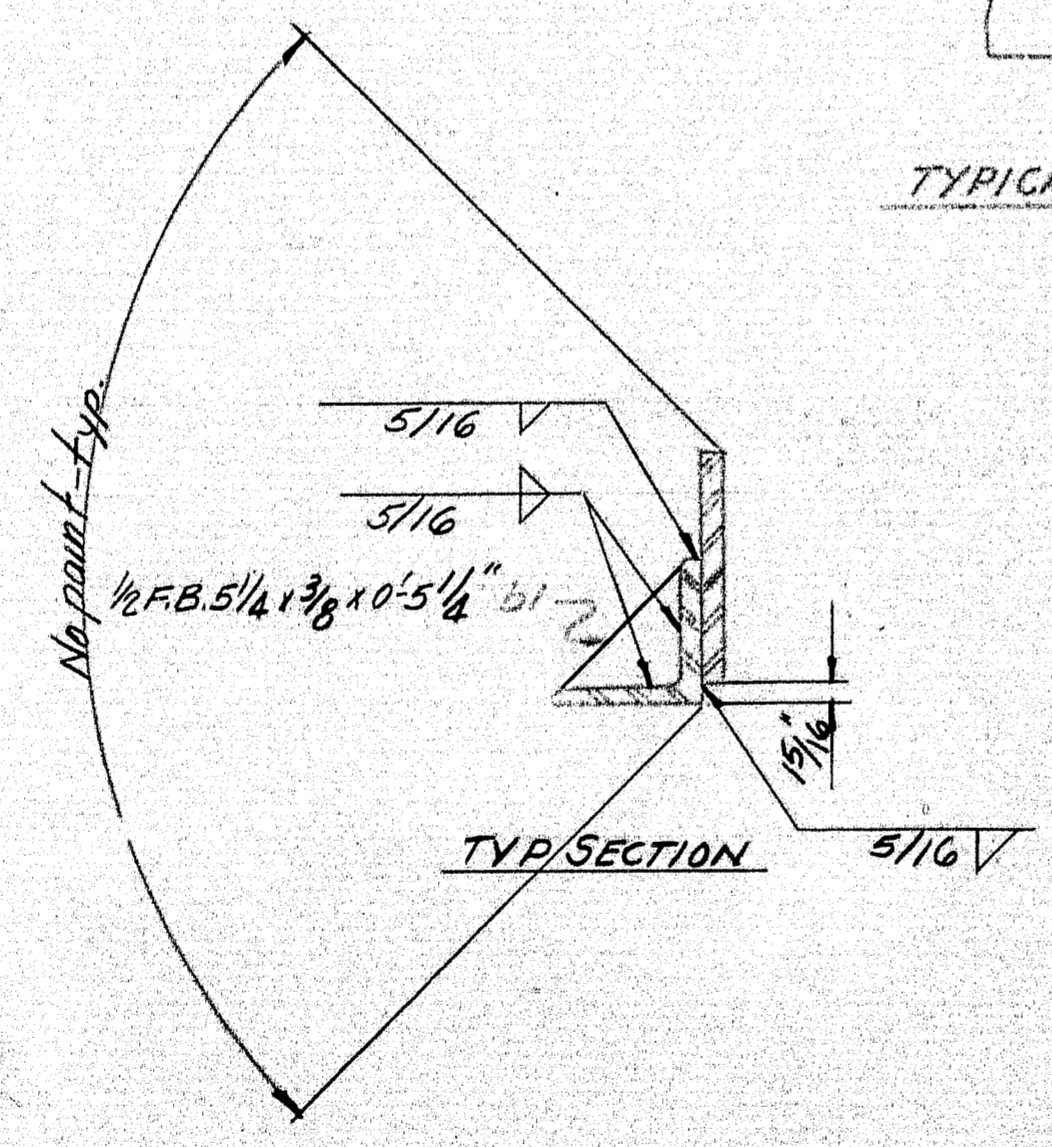
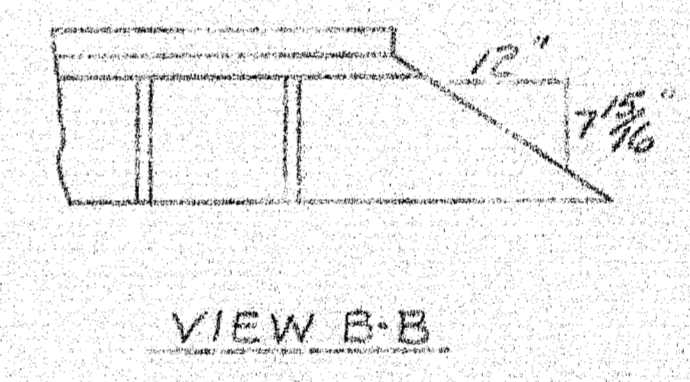
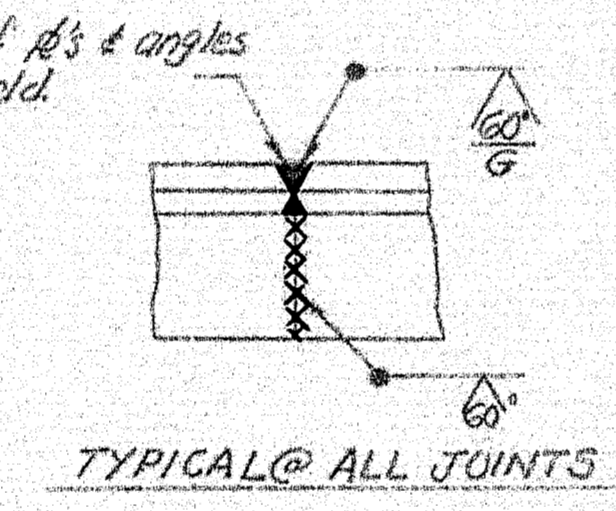
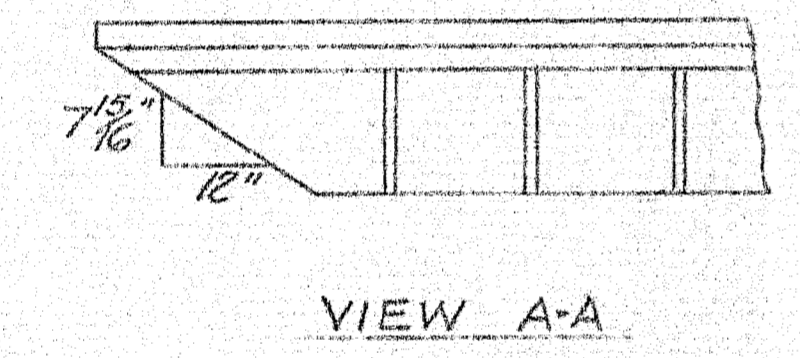
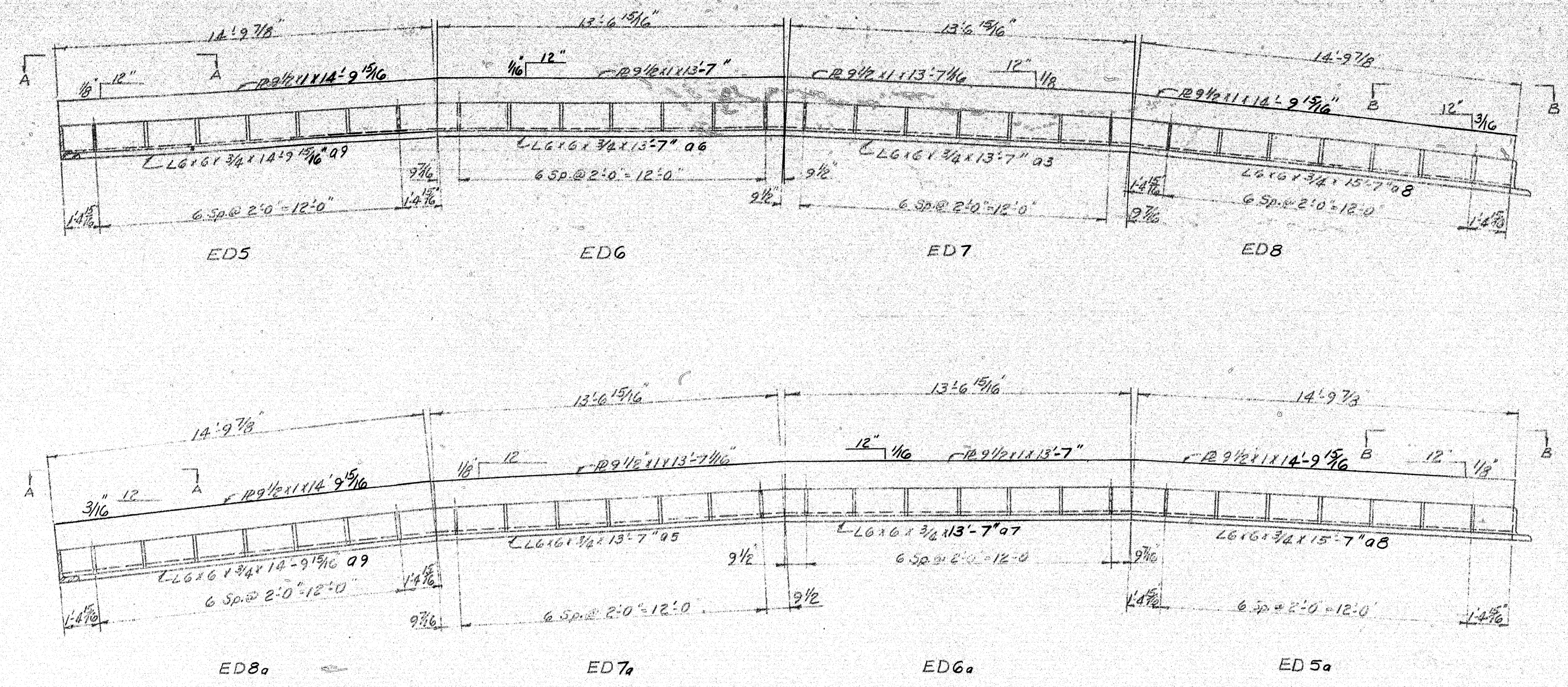
Bill of Material Continued on Dwg. 8-327-S22

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES:
PAINT: Per State of Maine Specs. & as noted

EXPANSION JOINT DETAILS
Branch & Martin Rolling Mills Company
South Portland, Maine
INTERSTATE 195
OVER STILLWATER AVENUE
BAKIDGEE, MAINE

DRAWN	19-58	PEM
REVISION	228-52	13M
REVISION		
REVISION		

CUSTOMER: H.B. FLEMING
DESIGNER: MAINE S.H.C. BRIDGE DIV.
ORDER NO. VEEBAL
DWG. NO. 8-327-S21



NOTE
Shim to grade as required
& weld with 5/16 fillet.

SHIP		BILL OF MATERIAL				DWG. NO. 8327-522	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	UNITED	REMARKS
3	96		L6x6x3/4	13' 7"			
3	97		DO	13' 7"			
4	98			15' 7"			50"
4	99			14' 9 3/4"			17"
1	100			14' 9 3/4"			6"
1	101			13' 7 1/2"			
1	102			13' 7 1/2"			
1	103			15' 6 3/4"			15"
224	61		1/2 FB 5 1/2 x 7/8	0' 5 1/4"			
64	62		FB 2 1/2 x 1/2	1' 2"			
16	63		FB 6 x 1	2' 4 3/4"			7 1/2"
Shim A	40		26 x 1 1/4	1' 0"			
Shim B	40		26 x 1 1/4	1' 0"			
Shim C	80		26 x 1 1/4	1' 0"			
			3/16 fillet				.166 #/ft

Bill of material continued from DWG. 8-327-521

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES:
PAINT: Per State of Maine Specs. & as noted

EXPANSION DAM DETAILS

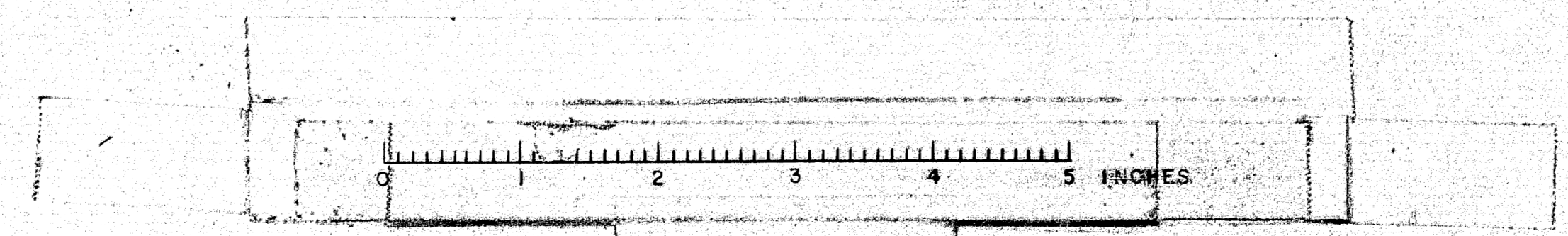
Bannock & Martin Rolling Mills Company
South Portland, Maine

INTERSTATE #95
OVER STILLWATER AVENUE
BANGOR, MAINE

CUSTOMER: H.B. FLEMING
DESIGNER: MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 8327-522

DRAWN	1-10-58	66/1
REVISION	2-28-59	66/1
REVISION		
REVISION		



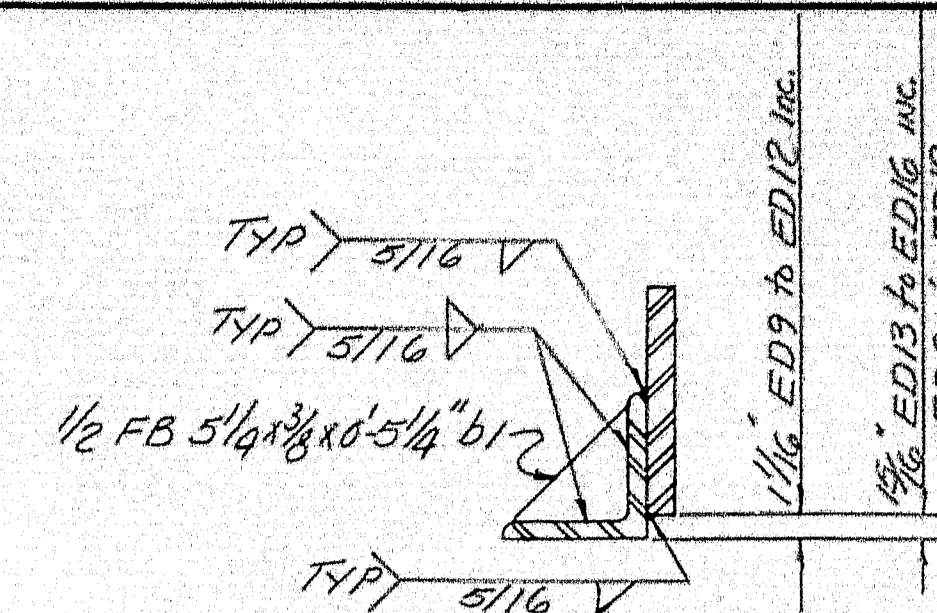
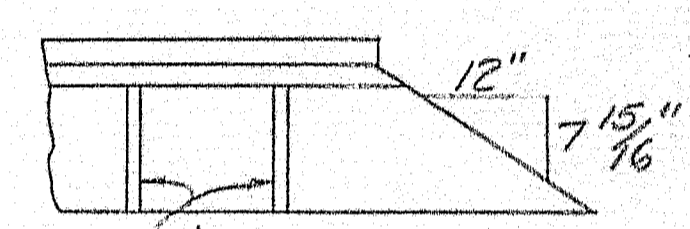
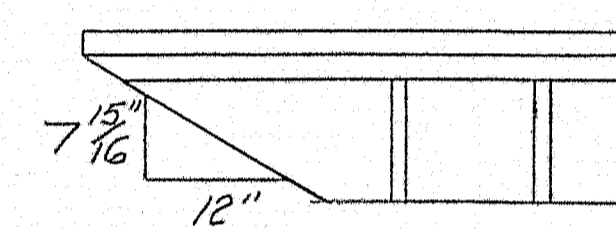
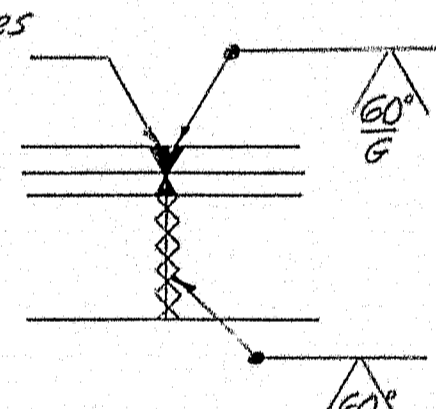


Diagram of a TYR section at 13g to 16g. The diagram shows a cross-section of a vertical wall and a horizontal base. The wall has a thickness of 7 1/8 inches. The base has a width of 61 inches. A curved arrow indicates a rotation or movement. The text "No paint tyo" is written along the curve.

VIEW B-B



Berel ends of IR's & angles
30° for field weld.



TYPICAL @ ALL JOINTS

NOTES: See Dwg. 8-327-521 for
Bill of Material
Paint per State of Maine Specs. has noted.

Shim to grade as required
& weld with 5/16 fillet.

DRAWN	1-12-58	RGM
REVISION	2-28-59	RGM.
REVISION		
REVISION		

65. ✓

EXPANSION DAM DETAILS

Brancroft & Martin Potlidge Mills Company

South Portland ? Maine

INTERSTATE #95

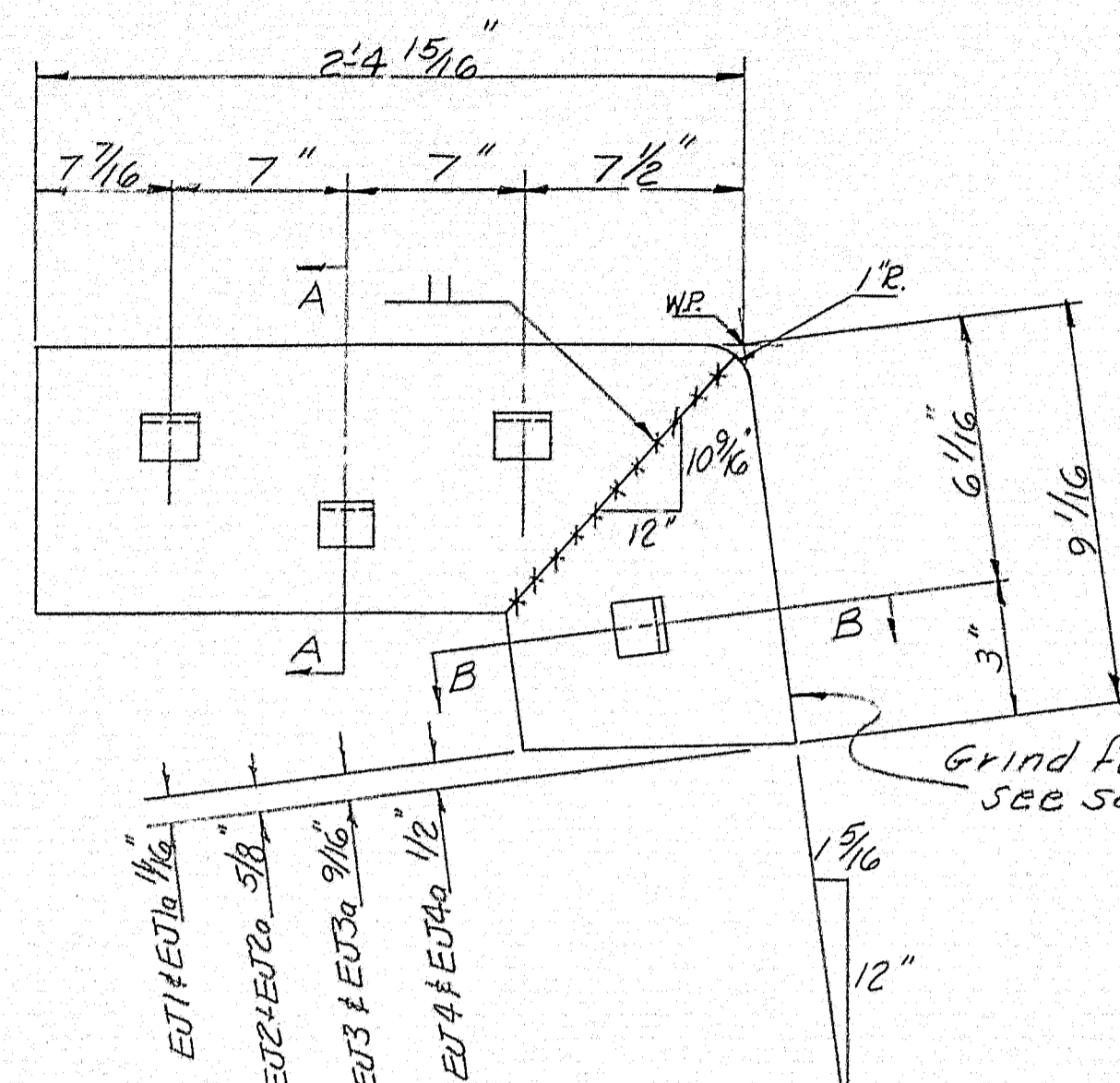
OVER STILLWATER AVENUE

BANGOR, MAINE

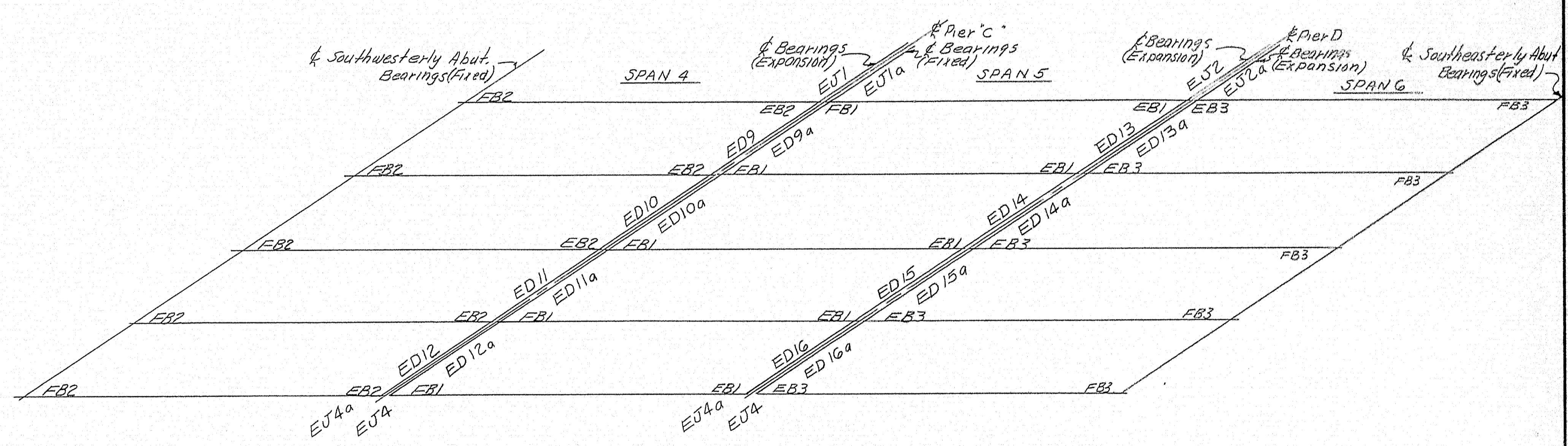
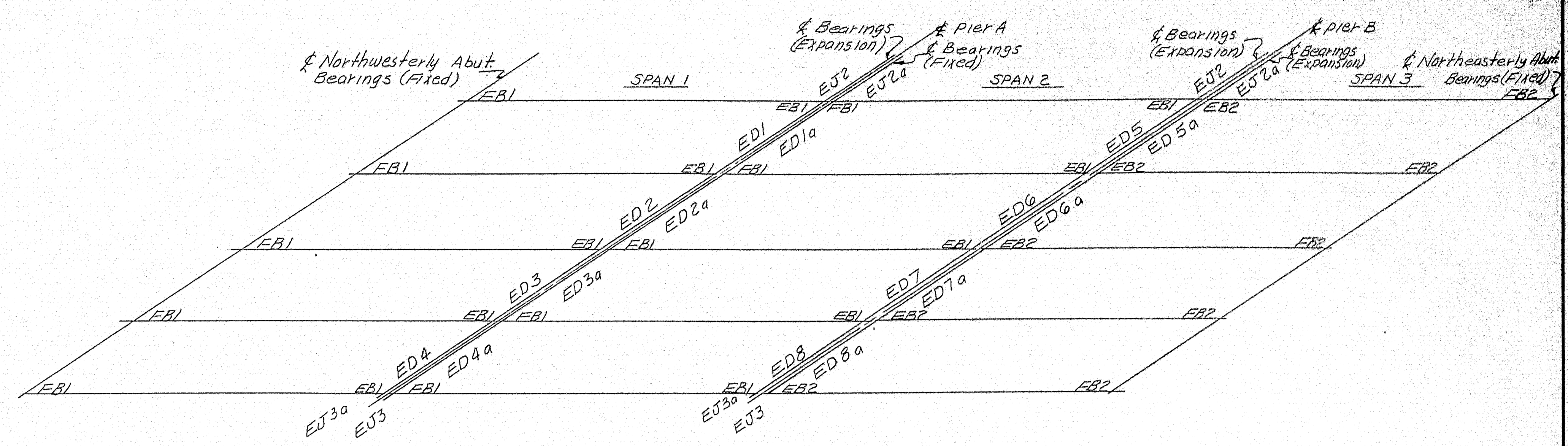
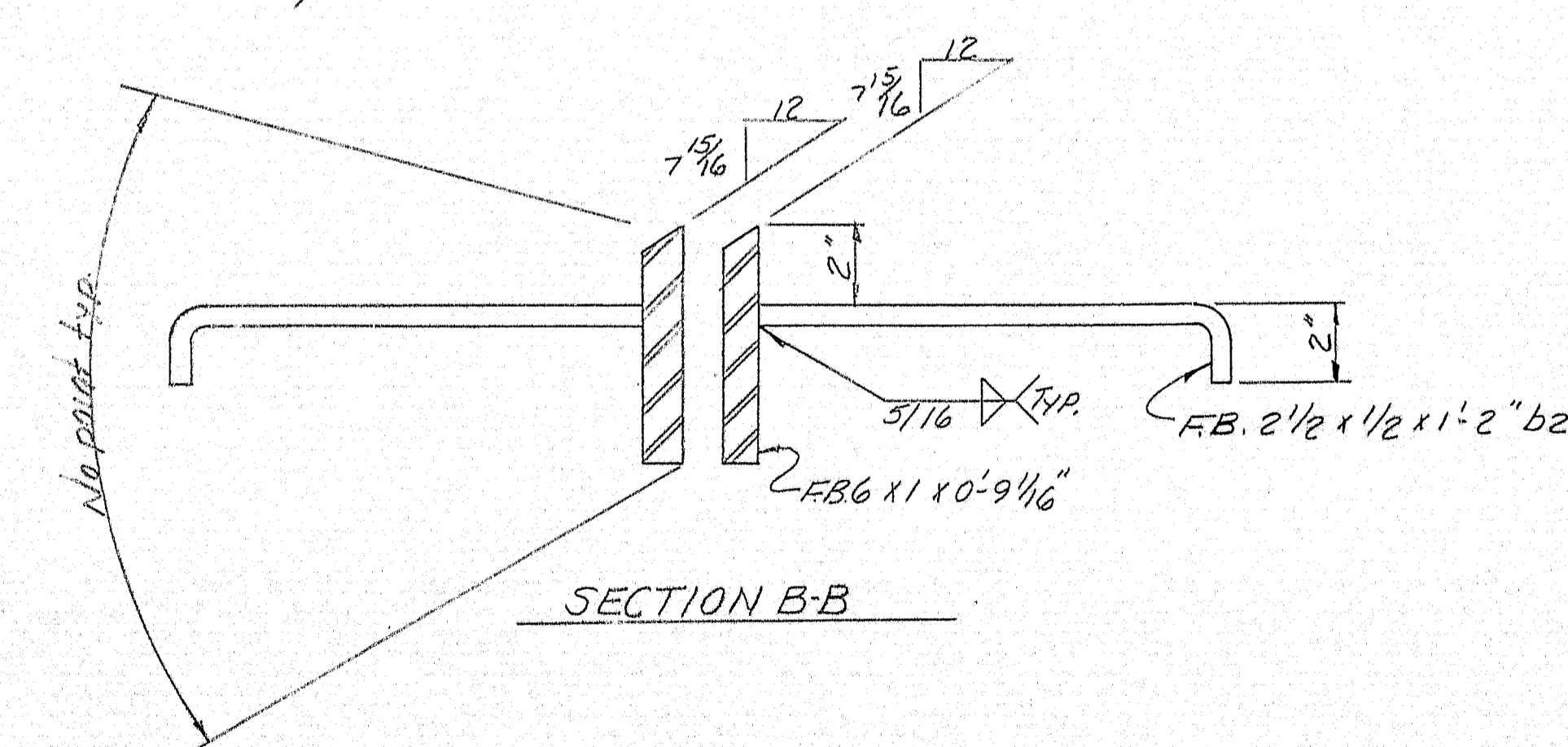
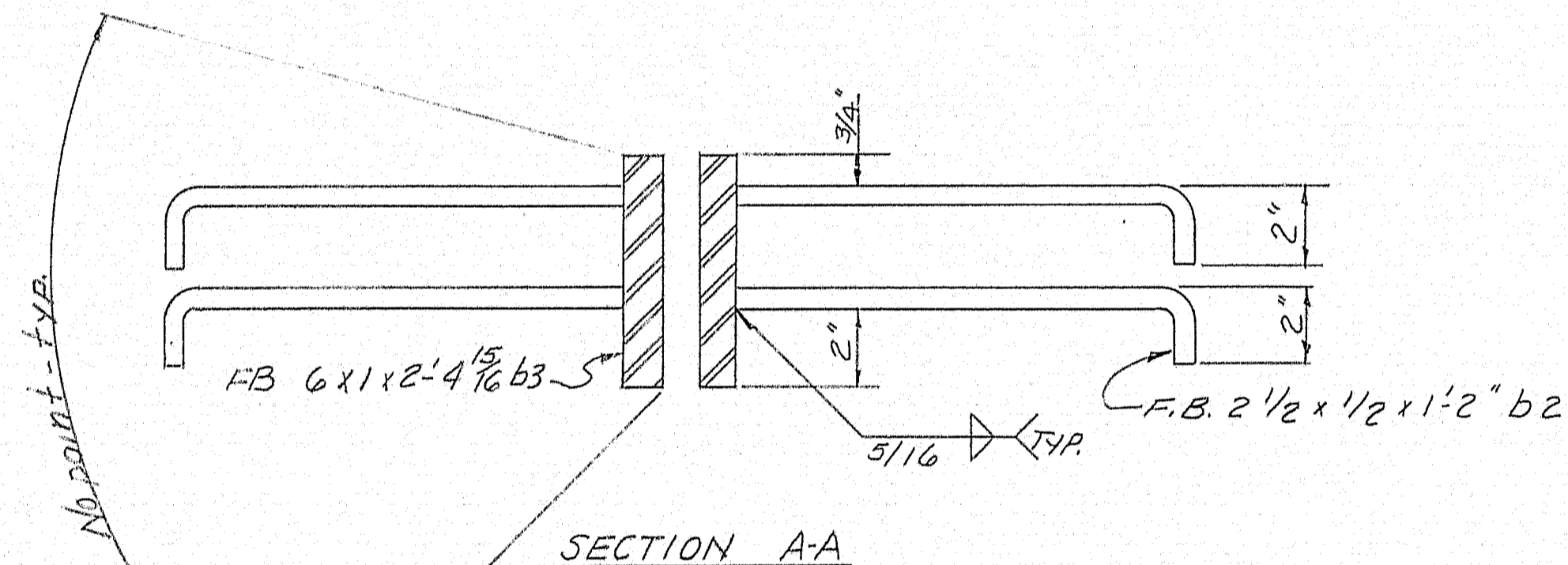
CUSTOMER H.B. FLEMING, INC.

DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 8-327-523



SIDEWALK EXPANSION JOINT	
AS SHOWN	OPP. HAND
EJ1 1 REQ'D	EJ1a 1 REQ'D
EJ2 3 REQ'D	EJ2a 3 REQ'D
EJ3 2 REQ'D	EJ3a 2 REQ'D
EJ4 2 REQ'D	EJ4a 2 REQ'D

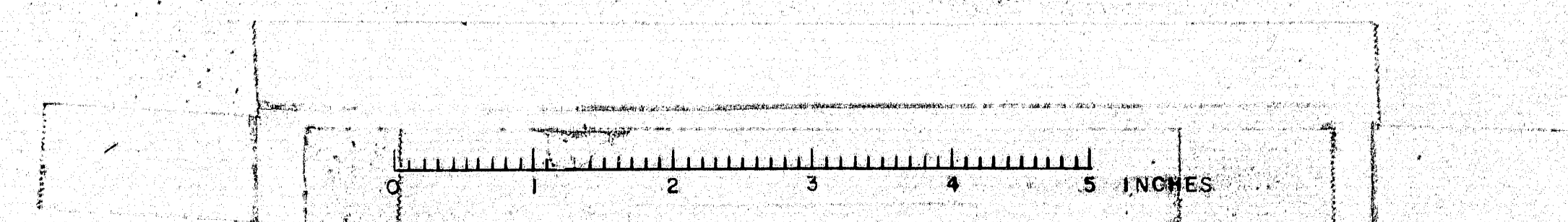


FRAMING PLAN for BEARINGS & EXPANSION JOINTS

NOTES: See DWG. 8-327-521 for Bill of Material.
Paint per State of Maine Specs. & as noted.

DRAWN 4-13-58		DESIGNED 4-13-58	
REVISION 3-4-59		REVISION 4-13-58	
REVISION		REVISION	
REVISION		REVISION	

SIDEWALK EXPANSION JOINT	
Bancroft & Martin Rolling Mills Company	
South Portland 2, Maine	
INTERSTATE #95	
OVER STILLWATER AVENUE	
BANGOR, MAINE	
CUSTOMER H.B. FLEMING, INC.	
DESIGNER MAINE S.H.C. BRIDGE DIV.	
ORDER NO. VERBAL	DWG. NO. 8-327-524



B.P.R. REG. NO.	STATE PROJ. NO.	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-8(6)180	1	35

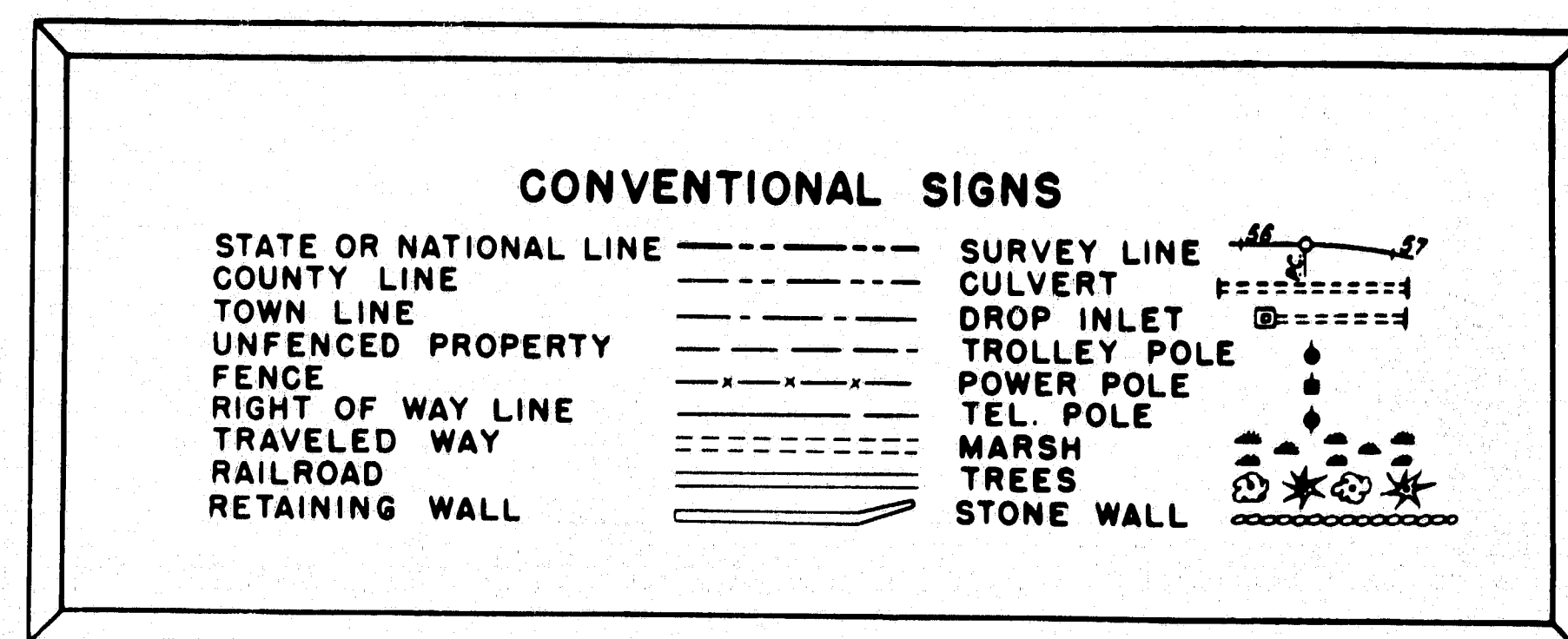
STATE OF MAINE STATE HIGHWAY COMMISSION

PLAN AND PROFILE STATE HIGHWAY #95 BANGOR

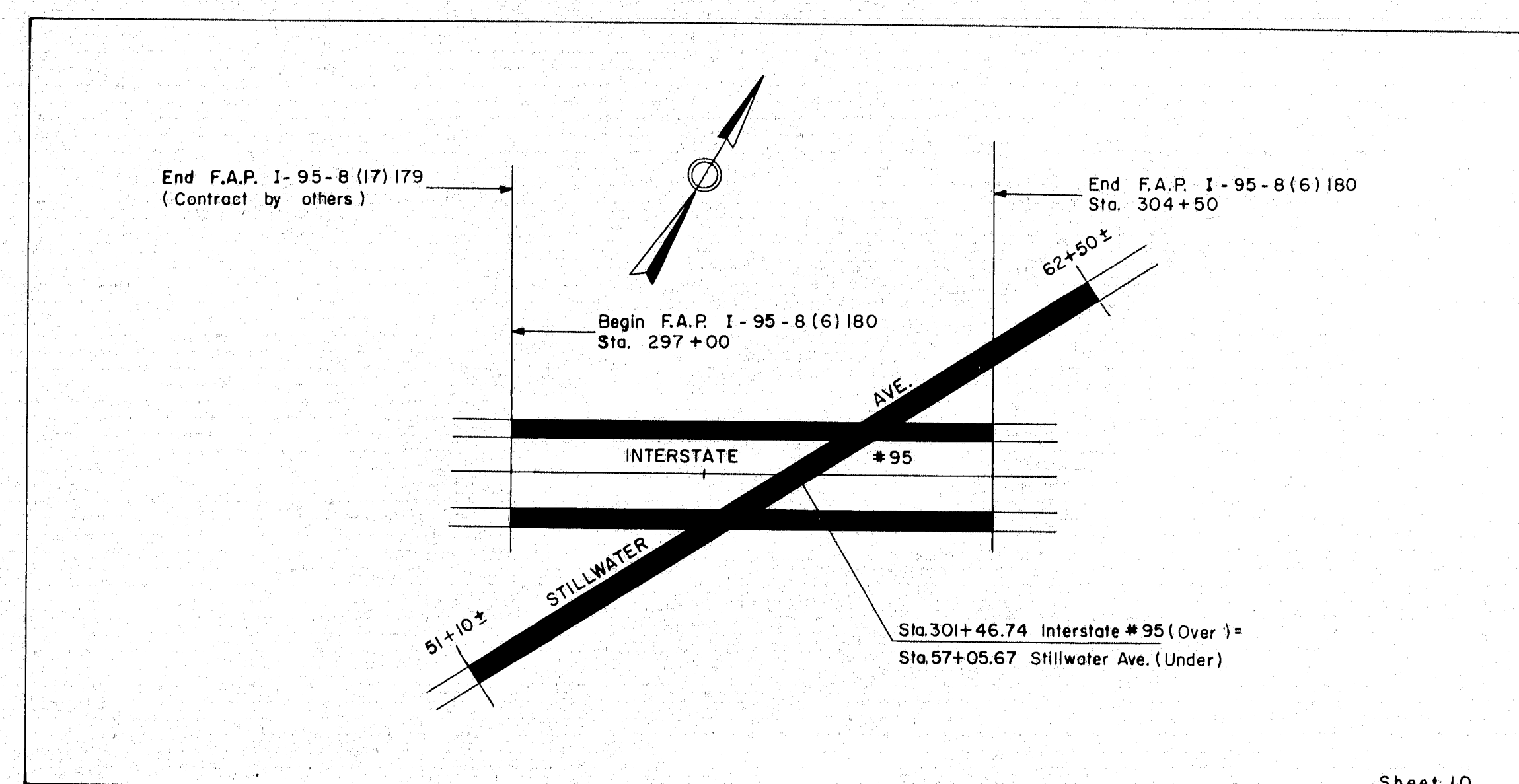
PENOBSCOT COUNTY
FEDERAL AID PROJECT NO. I-95-8(6)180
INTERSTATE #95 OVER STILLWATER AVENUE

TOTAL LENGTH 0.142 MILES

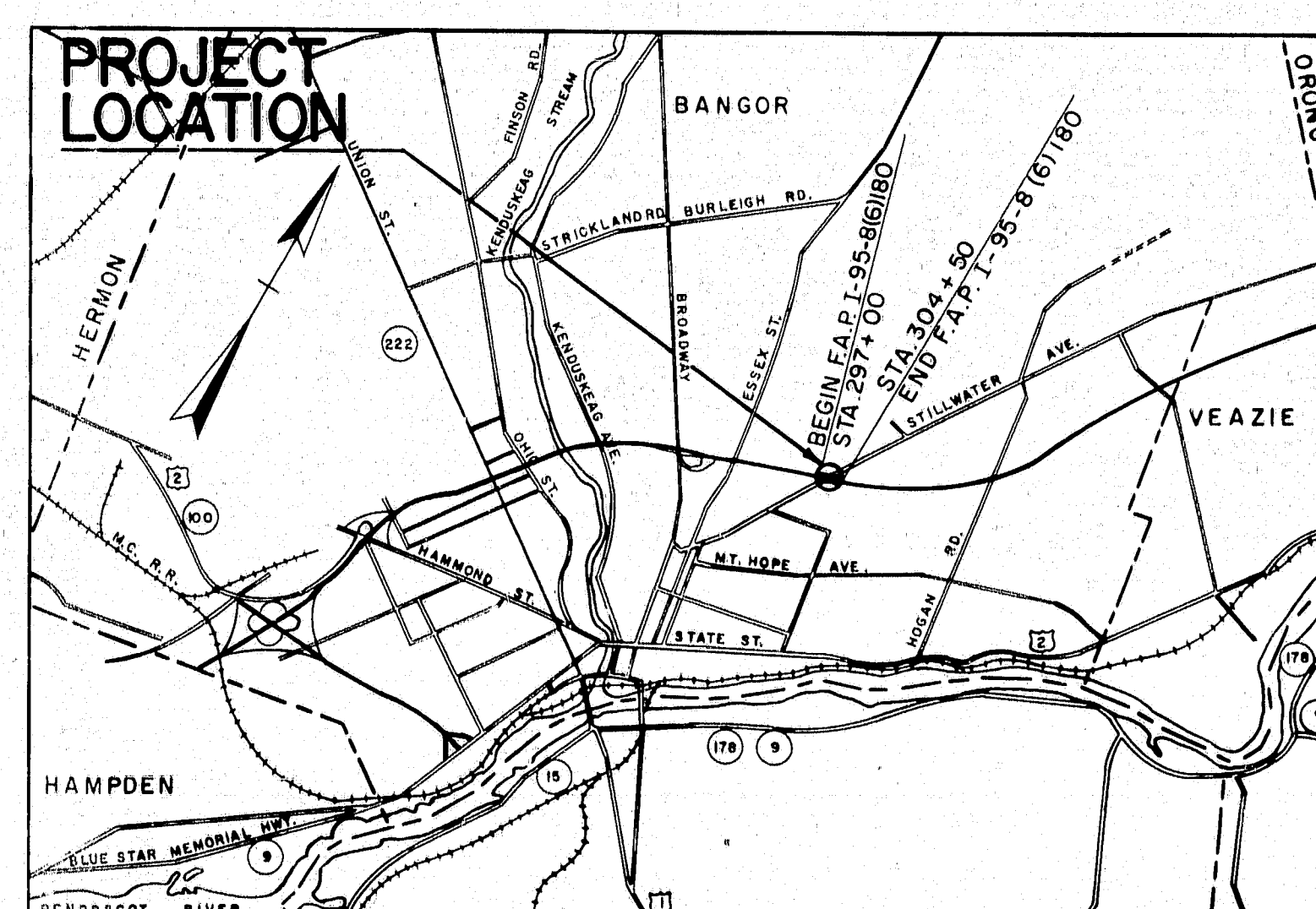
PLAN 1 IN. = 50 FT. or as Noted
SCALES PROFILE { HOR. 1 IN. = 50 FT.
VER. 1 IN. = 5 FT.
CROSS SECTIONS 1 IN. = 10 FT.



All work contemplated under this contract to be governed by and in conformity with the Standard Specifications, Highways and Bridges, revision of Jan. 1956, except as modified on these plans and by the Special Provisions.



LAYOUT PLAN
Scale: 1" = 200'



A PORTION OF PENOBSCOT COUNTY
APPROX. SCALE: 1 IN. = 1 MILE

INDEX OF SHEETS

- Sheet No.
- Title sheet
 - Typical sections
 - Quantity sheet
 - Standard details
 - Special details
 - General plan and profile 297+00 to 304+50
 - Profile, Stillwater Ave.
 21. Bridge
 - 22 - 35. Cross sections

AS BUILT
1960

INTERSTATE	STILLWATER AVE
A.D.T. (1960) = 4675	630
A.D.T. (1980) = 7970	855
D.H.V. (1980) = 1200	86
D. (1980) = 65%	65%
T. (1980) = 15%	8%
V.(M.P.H.) = 60	30

CONSULTING ENGINEERS
THE CLARKESON ENGINEERING COMPANY, INC.
BOSTON MASS.
7/21/58
DATE

APPROVED:
MAINE STATE HIGHWAY COMMISSION

Chairman

Chief Engineer

Chief Engineer

Chief Engineer

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION I

APPROVED:

DIVISION ENGINEER DATE

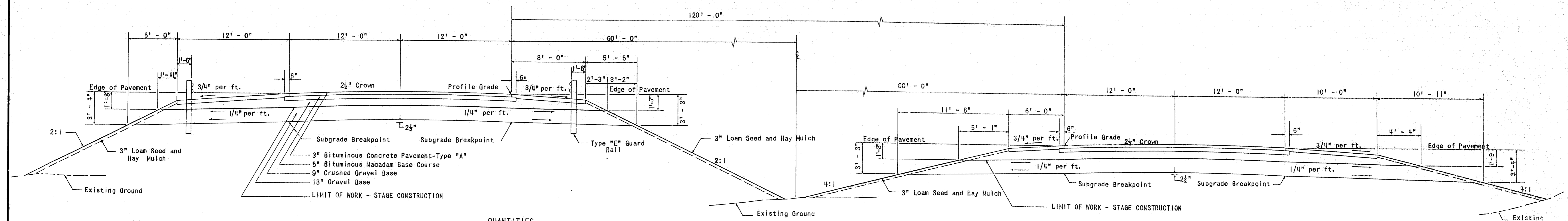
78-1

GRADING CONTRACT - STAGE CONSTRUCTION

Interstate #95 to be constructed to top of Gravel Base only unless otherwise indicated or specified.

B.R.R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-B(6)	2	35

BANGOR INTERSTATE



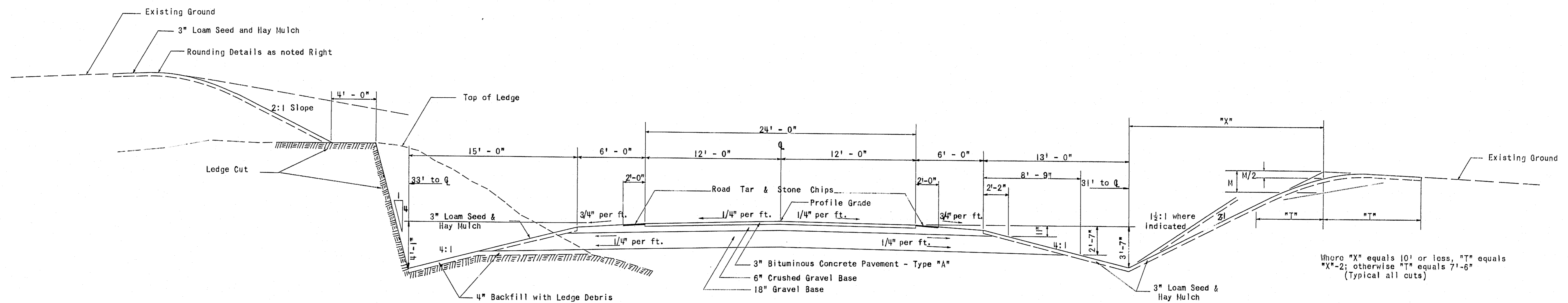
QUANTITIES	CY/100 L.F.
12' PAVED SHOULDER	
4" Bituminous Macadam Surface	14.66
Crushed Gravel Base (to 2:1 Slope)	37.92
18" Gravel Base (to 2:1 Slope)	83.08

QUANTITIES	CY/100 L.F.
24' PAVEMENT	
3" Bituminous Concrete	22.22
5" Bituminous Macadam Base Course	38.58
9" Crushed Gravel Base	66.67
18" Gravel Base	133.33

INTERSTATE #95
TYPICAL SECTION - NORMAL
Scale: 1" = 5' - 0"

QUANTITIES	CY/100 L.F.
8' PAVED SHOULDER	
4" Bituminous Macadam Surface	9.72
Crushed Gravel Base to Slope	29.23
18" Gravel Base to Slope	62.80
6' PAVED SHOULDER	
4" Bituminous Macadam Surface	7.25
Crushed Gravel Base to Slope	27.46
18" Gravel Base to Slope	73.74

QUANTITIES	CY/100 L.F.
10' PAVED SHOULDER	
4" Bituminous Macadam Surface	12.19
Crushed Gravel Base to Slope	36.33
18" Gravel Base to Slope	91.92



STILLWATER AVENUE
TYPICAL SECTION
Scale: 1" = 5' - 0"

QUANTITIES	C.Y./100 L.F.
24' PAVEMENT	
3" Bituminous Concrete Surface	22.22
6" Crushed Gravel Base	44.44
18" Gravel Base	133.33
6' SHOULDER	
Crushed Gravel (to 4:1 Slope)	14.40
Gravel Base (to 4:1 Slope)	57.57

- NOTES:
1. Use 4:1 Slopes for fills less than 10' deep.
 2. Use 2:1 Slopes for fills of depth of 10' or over.
 3. Bituminous Concrete Surface - Type "A" to consist of 1" surface and 2" binder.
 4. Interstate Highway to be constructed to top of gravel base only, unless otherwise indicated.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

TYPICAL SECTIONS

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202-5	Removing Trees (9" to 24")	13	Each
202-6	Removing Trees (over 24")	1	Each
203-9	Earth Excavation	11,900	C.Y.
203-10	Rock Excavation	6,400	C.Y.
204-10	Structural Earth Excavation - Drainage	25	C.Y.
204-11	Structural Rock Excavation - Drainage	20	C.Y.
204-12	Structural Earth Excavation, Abuts. and Retaining Walls	240	C.Y.
204-13	Structural Rock Excavation, Abuts. and Retaining Walls	20	C.Y.
204-14	Structural Earth Excavation - Piers	160	C.Y.
204-15	Structural Rock Excavation - Piers	120	C.Y.
204-18	Structural Rock Excavation-Fencing	100	L.F.
205-8	Common Borrow	23,500	C.Y.
205-9	Granular Borrow	7,600	C.Y.
302-7	Gravel Base Course - In Place Measurement	5,790	C.Y.
302-9	Crushed Gravel Base Course - In Place Measurement	900	C.Y.
303-5	Overhaul (In Place Measure)	32,000	Yd. Hl.
303-6	Overhaul (Pit Measure)	43,200	Yd. Hl.
303-5	Stripping Pits	1,350	C.Y.
310-6	Sprinkling	50	Units
311-6	Calcium Chloride	4	Tons
401-11	Gravel Surface Course	10	C.Y.
402-16	Stone Chips	15	Tons
404-28	Bituminous Concrete Surface Course, Type "A"	540	Tons
501-7	Road Tar	540	Gals.
602-11	15 Inch Asphalt Coated Corrugated Metal Pipe	70	L.F.
602-14	24 Inch Asphalt Coated Corrugated Metal Pipe	50	L.F.
603-13	24 Inch Reinforced Concrete Pipe	40	L.F.
607-7	Metal Endwalls for 24 Inch Pipe	1	Each
701-33	Portland Cement Concrete, Abuts. and Retaining Walls	550	C.Y.
701-35	Portland Cement Concrete, Piers	290	C.Y.
701-40	Portland Cement Concrete, Roadway & S.W. Slabs on St. Bridges	470	C.Y.
701-47	Portland Cement	1,970	C.Y.
702-103	Structural Steel, Fabricated and Delivered	727,900	Lbs.
702-104	Structural Steel, Erection	727,900	Lbs.
703-9	Bronze or Copper-Alloy Bearing & Expansion Plates, Delivered	1,350	Lbs.
703-10	Bronze or Copper-Alloy Bearing & Expansion Plates, Placing	1,350	Lbs.
705-13	Reinforcing Steel, Delivered	225,000	Lbs.
705-14	Reinforcing Steel, Placing	225,000	Lbs.
708-16	Steel H-Beam Piles 42 lbs. per ft.	1,000	L.S.
709-5	Bridge Drainage	1	L.S.
710-5	Shear Connectors, Delivered and Placed	1	L.S.
804-6	French Drains	210	C.Y.
807-15	Aluminum Railing	950	L.F.
906-18	Fencing Metal Posts	2,470	L.F.
907-10	Hand Laid Rip-Rap	10	C.Y.
908-8	Loam Excavation	3,500	C.Y.
909-7	Sodding	700	S.Y.
910-10	Seeding - Parkway Mixture	90	Units
912-8	Hay Mulch	10	Tons
914-6	Project Markers	1	Each
917-6	Traffic Officers	200	H. Hrs.
926-7	Removal or Razing Buildings No. 1	1	Each
926-8	Removal or Razing Buildings No. 2	1	Each
926-9	Removal or Razing Buildings No. 3	1	Each
926-10	Removal or Razing Buildings No. 4	1	Each
929-10	Portable Barricade	2	Each
930-13	Portable Barricade with Flashing Lights	2	Each
933-6	Slope Paving for Bridges	1,380	S.Y.
915-6	Right of Way Monuments	2	Each
	Gravel For Foundations	30	C.Y.

REMOVING TREES		
STATION	SIDE	REMARK
Stillwater Ave.		
53 + 40	Rt. - 23'	18" Elm
53 + 75	Rt. - 20'	15" Elm
56 + 00	Rt. - 28'	22" Elm
56 + 22	Rt. - 26'	22" Elm
56 + 95	Rt. - 21'	28" Elm
59 + 34	Rt. - 18'	22" Elm
59 + 57	Rt. - 18'	16" Elm
60 + 00	Rt. - 19'	20" Elm
60 + 24	Rt. - 22'	16" Elm
60 + 57	Rt. - 23'	13" Elm
61 + 40	Rt. - 26'	12" Elm
61 + 63	Rt. - 25'	12" Elm
61 + 87	Rt. - 28'	12" Elm
62 + 30	Rt. - 29'	14" Elm
60 + 33	Lt. - 30'	13" Elm
60 + 10	Lt. - 20'	14" Elm

GRAVEL BASE COURSE	
STATION TO STATION	DESCRIPTION
298 + 50 to 301 + 50 Lt.	18" Gravel
296 + 50 to 299 + 05 Rt.	18" Gravel Base
301 + 50 to 304 + 00 Rt.	18" Gravel Base
Stillwater Avenue	18" Gravel Base

DRIVEWAYS		
STATION	SIDE	DESCRIPTION
Stillwater Ave.		
61 + 00	Left	1" Gravel Surface Course with a 45" Gravel Base.

FENCING - METAL POSTS			
STATION TO STATION	SIDE	LENGTH	REMARK
297 + 00 to 297 + 85	Rt.	85'	
52 + 92 to 54 + 18	Lt.	125'	Stillwater Ave.
298 + 288 to 298 + 288	Rt.	40'	
56 + 10 to 53 + 93	Rt.	217'	Stillwater Ave.
299 + 04 to 304 + 50	Rt.	546'	
297 + 00 to 303 + 93	Lt.	693'	
60 + 20 to 56 + 40	Lt.	180'	Stillwater Ave.
302 + 40 to 301 + 60	Lt.	80'	
59 + 80 to 60 + 00	Rt.	40'	Stillwater Ave.
60 + 00 to 61 + 20	Rt.	120'	
58 + 18 to 56 + 73	Lt.	155'	
57 + 16 to 58 + 98	Rt.	182'	

LOAM EXCAVATION			
STATION TO STATION	EST. DEPTH	AV. WIDTH	LENGTH
297 + 50 to 302 + 00 Lt.	4' 0"	110' 00"	450' 400'
297 + 00 to 305 + 00 Rt.	1'	60'	750'

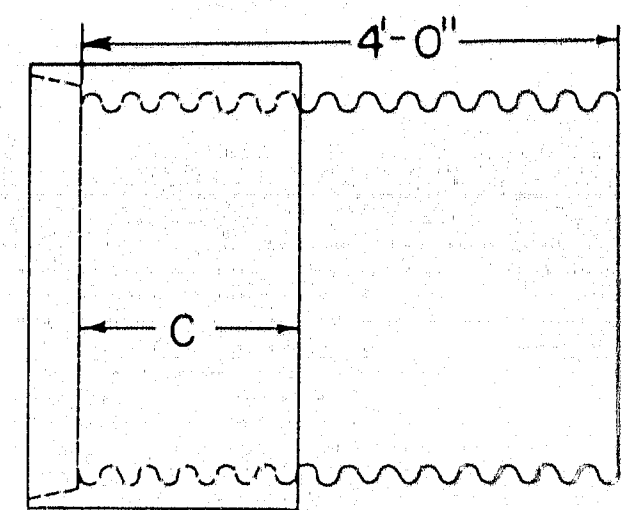
PORTABLE BARRICADES		
STATION	NO.	REMARK
Stillwater Ave.		
North	1	
South	1	
North	1	With Flashing Lights
South	1	" " "

SODDING		
STATION TO STATION	SIDE	REMARK
297 + 00 to 300 + 00		Q
299 + 90 to 302 + 10 Lt.		Lt.
302 + 90 to 304 + 50		Rt.
Stillwater Ave.		
61 + 10 to 61 + 80		Lt.
61 + 00 to 62 + 50		Rt.
60 + 00 to 60 + 50		Rt.

ROADWAY CULVERTS						
STATION	SIZE	ACCOMP. LEFT	RCP	ACCOMP. RIGHT	PIPE CONN.	METAL E.W.
Stillwater Ave.						
59 + 50	24"	10'	40'	8'	1	1
60 + 50 to 61 + 10	15"	64'				

SUMMARY OF CLASSIFIED EXCAVATION AND BORROW	
Total Earth Excavation from Cross Sections	11,622 C.Y.
Estimated Earth Shrinkage Factor (-15%)	1,743
Available Fill from Earth Excavation	9,879 C.Y.
Total Rock Excavation from Cross Sections	6,336 C.Y.
Estimated Rock Swellage Factor (+40%)	2,534
Available Fill from Rock Excavation	8,870 C.Y.
Earth Fill Required from Cross Sections	43,262 C.Y.
Plus Loam Excavation in Fills	3,500
Sub-total	46,762 C.Y.
Less Available Fill from Rock Excavation	8,870
Sub-total	37,892 C.Y.
20% Granular Borrow	7,578
Earth Fill Required	30,314 C.Y.
Earth Fill Required	30,314 C.Y.
Available Earth Fill	9,879
Borrow	20,435 C.Y.
Common Borrow 20435 + 3065 =	23,500 C.Y.
Granular Borrow =	7,600 C.Y.
Earth Excavation 11622 + 278 =	11,900 C.Y.
Rock Excavation	6,400 C.Y.
Undetermined Origin	

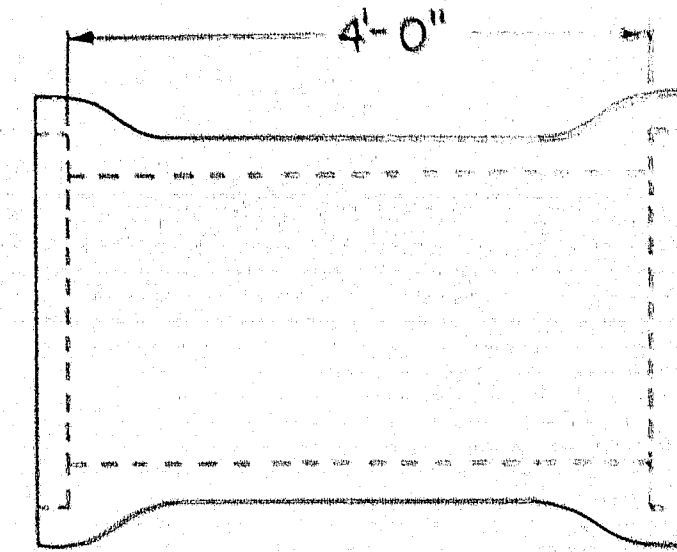
PIPE CONNECTIONS



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

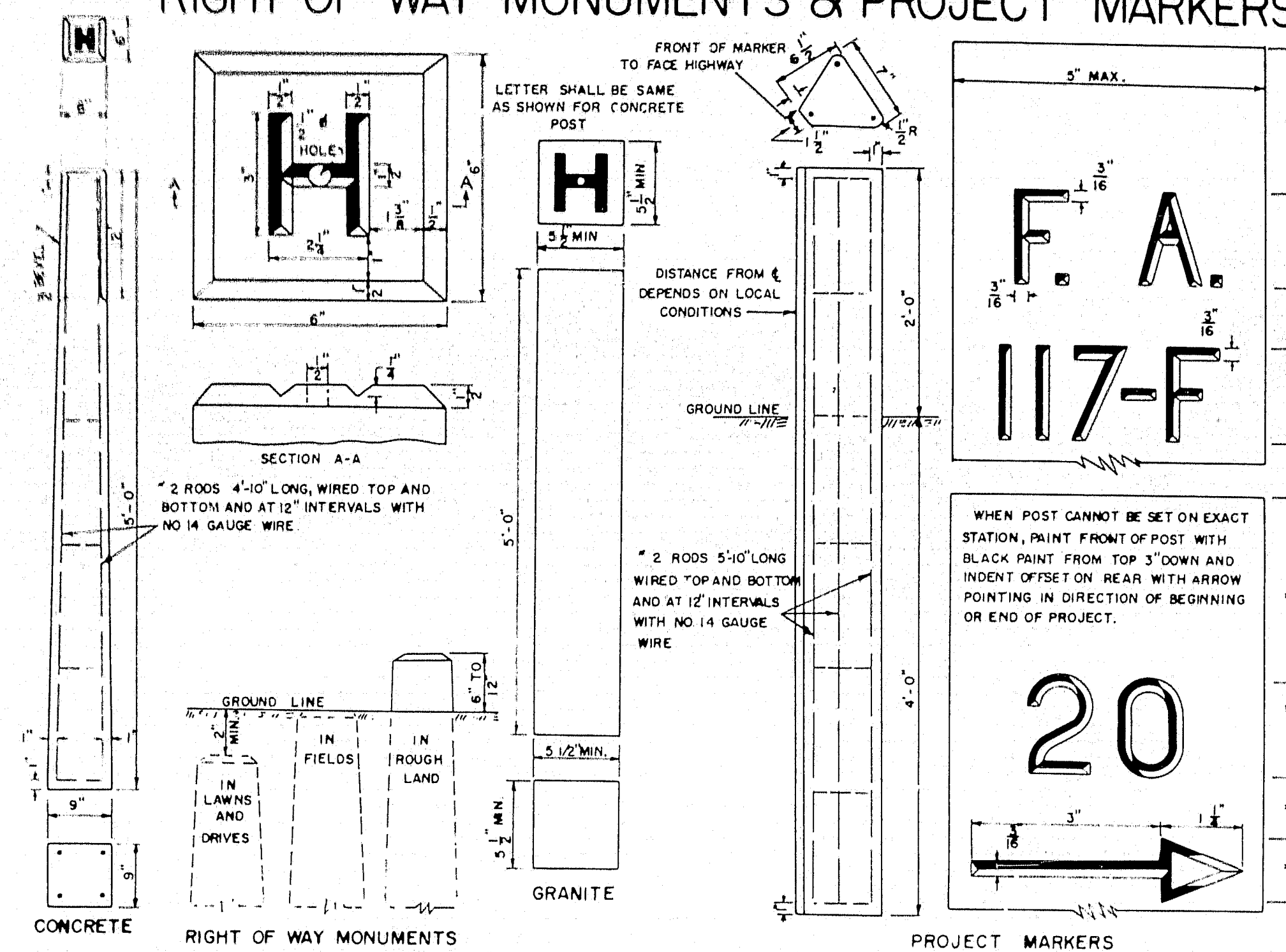


REINFORCED CONCRETE PIPE CONNECTOR
DOUBLE BELL

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

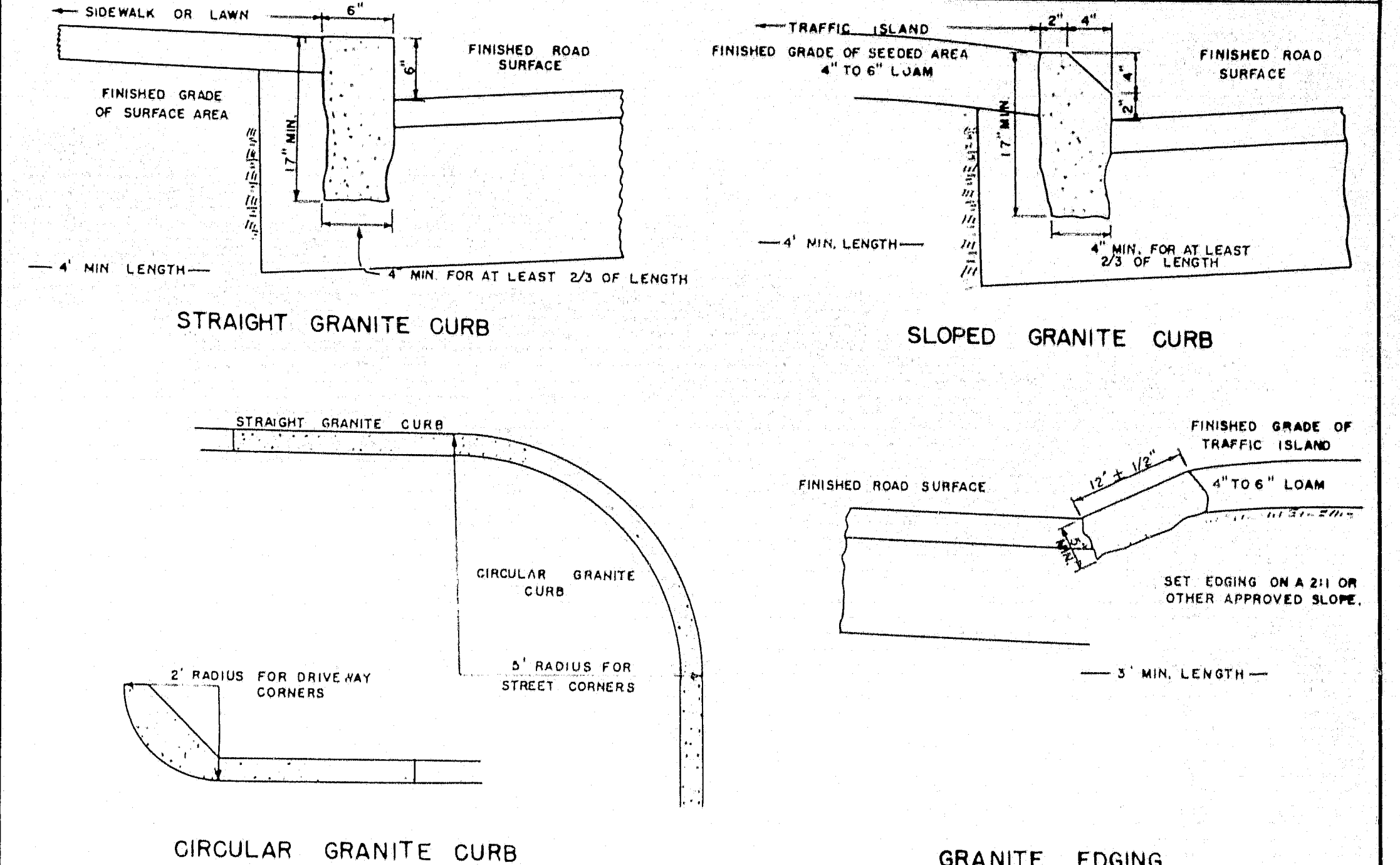
Reinforced concrete pipe shall
conform to the latest standard
specifications

RIGHT OF WAY MONUMENTS & PROJECT MARKERS

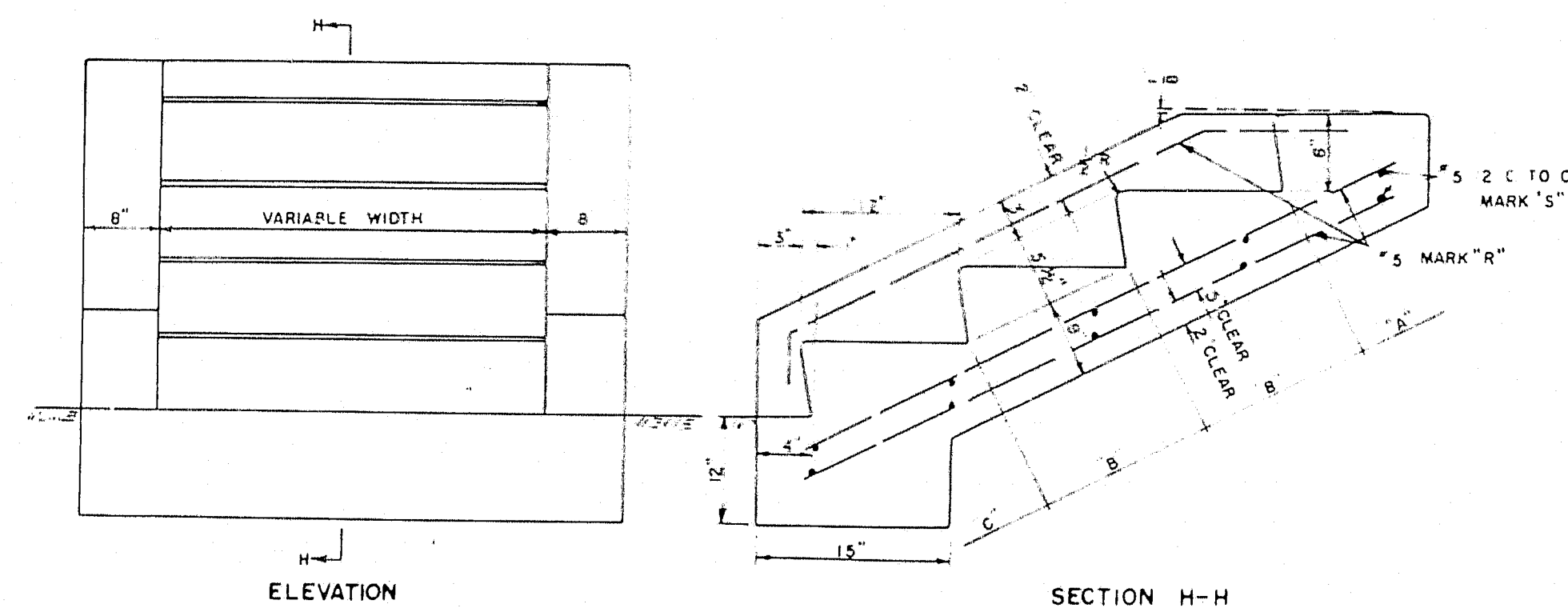


GRANITE CURB & EDGING

B. P. R.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-B(6)	6	35



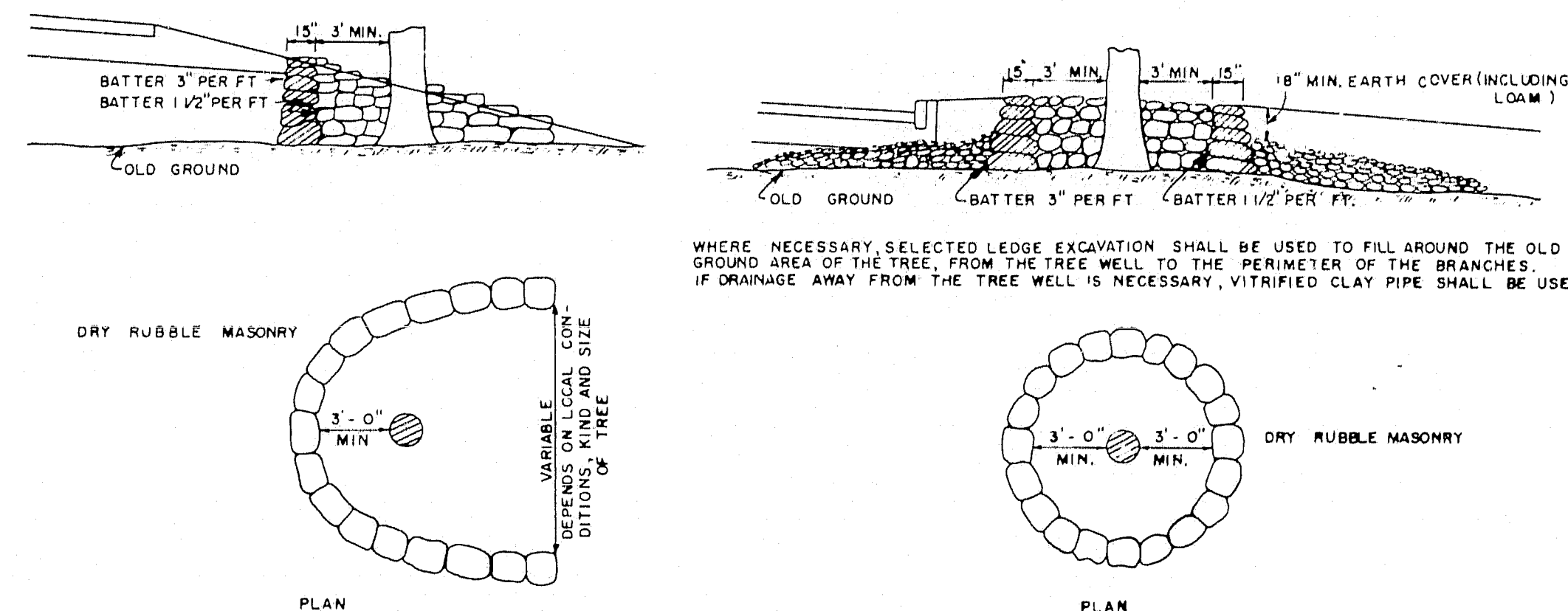
CONCRETE STEPS



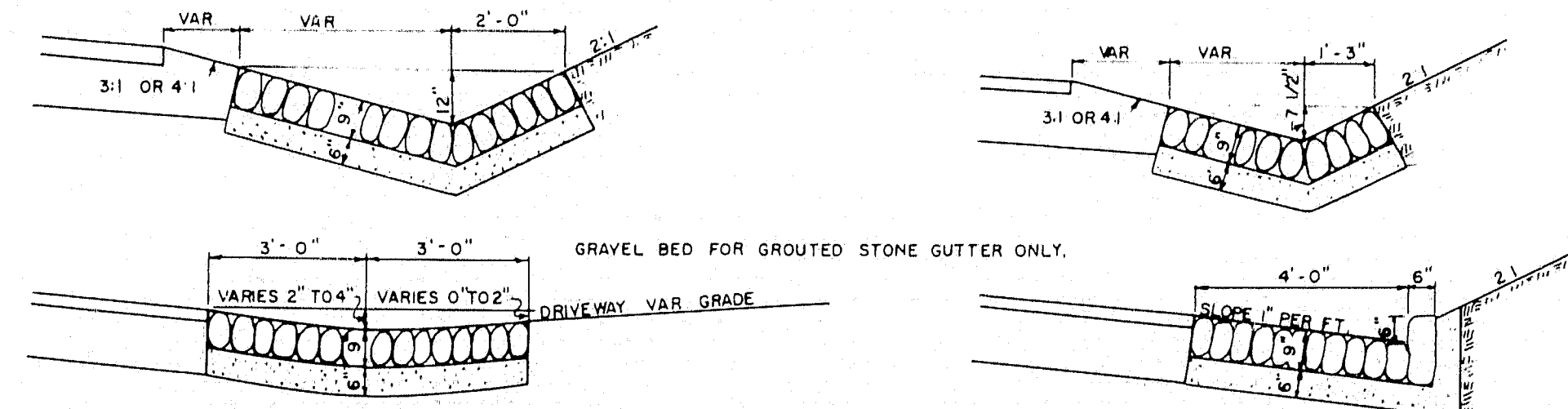
CONCRETE CLASS "A"		
SECTION	STEPS	PARAPET
"A" HEADER	032 CU. YDS	022 CU. YDS
"B" 1A INTER ST.	040 CU. YDS	040 CU. YDS
"C" FOOTER	071 CU. YDS	065 CU. YDS

REINFORCING STEEL			
MARK	SIZE	NUMBER	LENGTH (EACH)
R	"5	3 EACH PARAPET	"8" FOR "A"
		1043 LBS PER FT.	"13" FOR EACH "B"
		2 EACH FT. OF WIDTH	"16" FOR "C"
S	"5	2 FOR "A"	6 EACH PARAPET
		2 FOR EACH "B"	"12" PER FT. OF WIDTH
		4 FOR "C"	
		1043 LBS PER FT.	

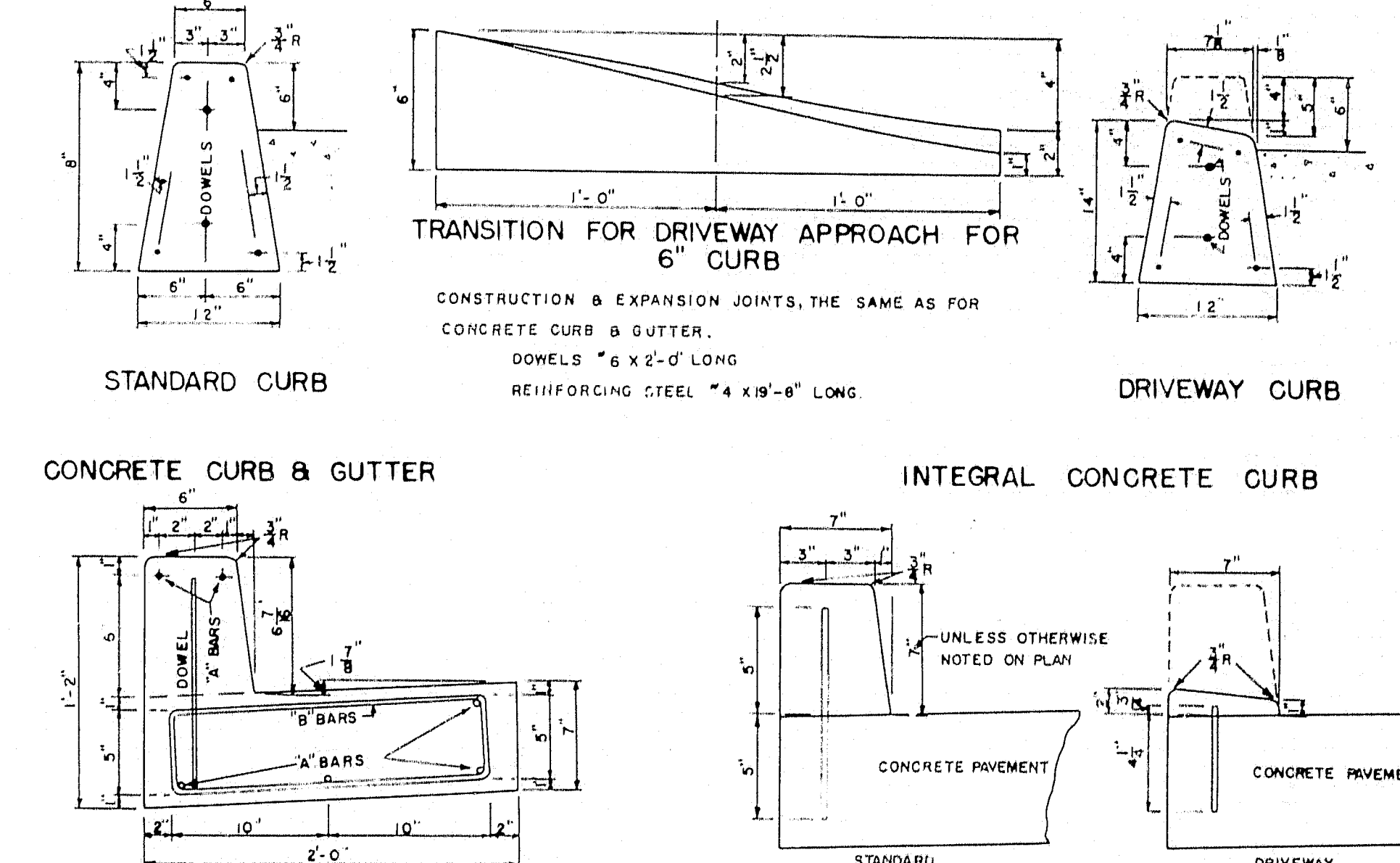
TREE WELLS



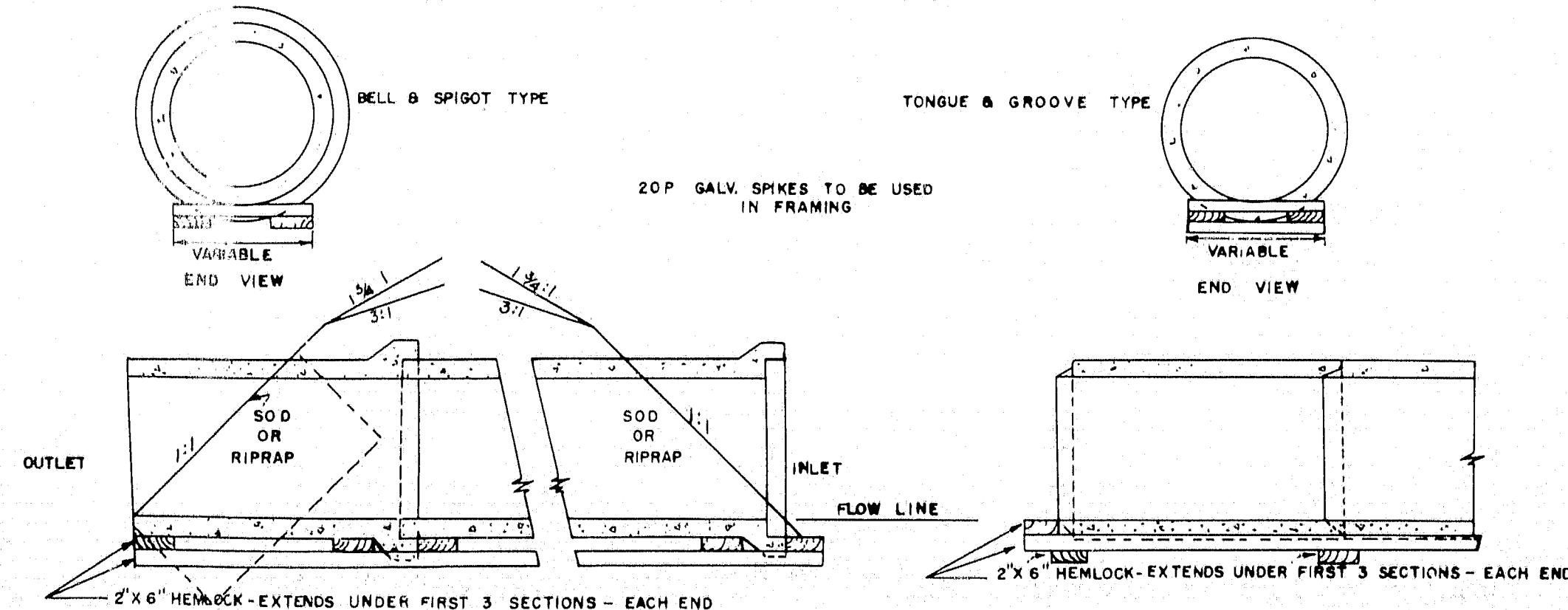
STONE GUTTER



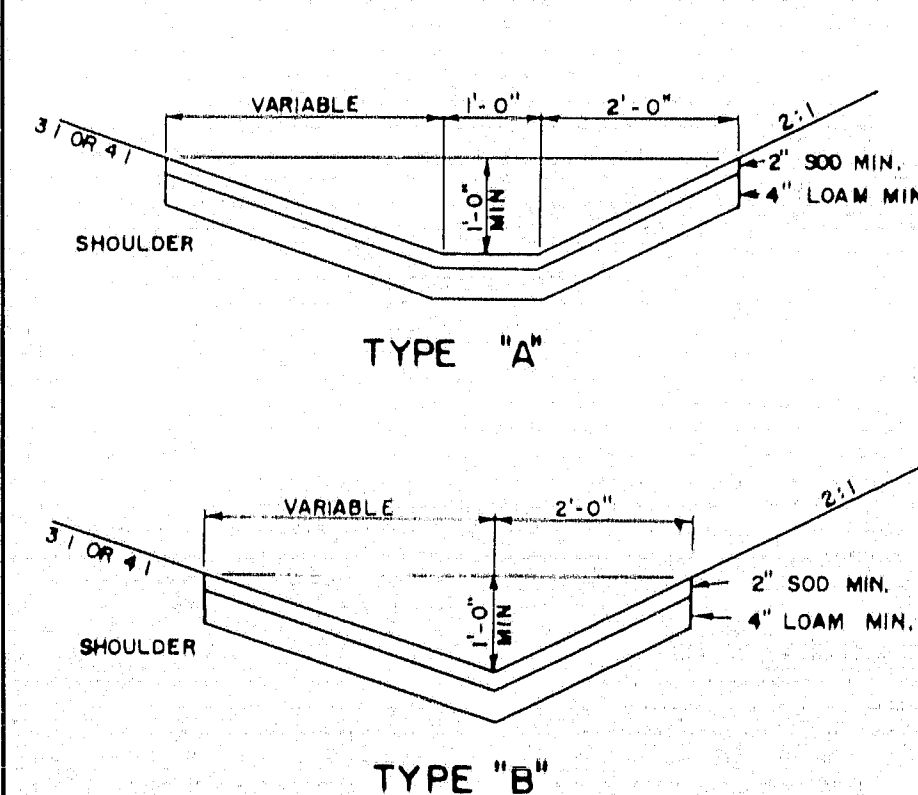
CONCRETE CURB



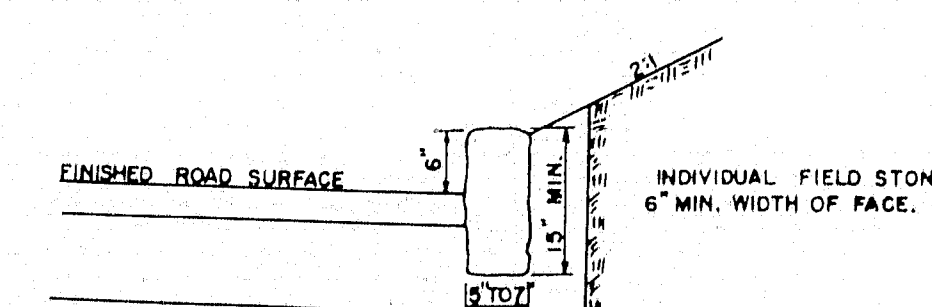
CONCRETE PIPE CRADLE



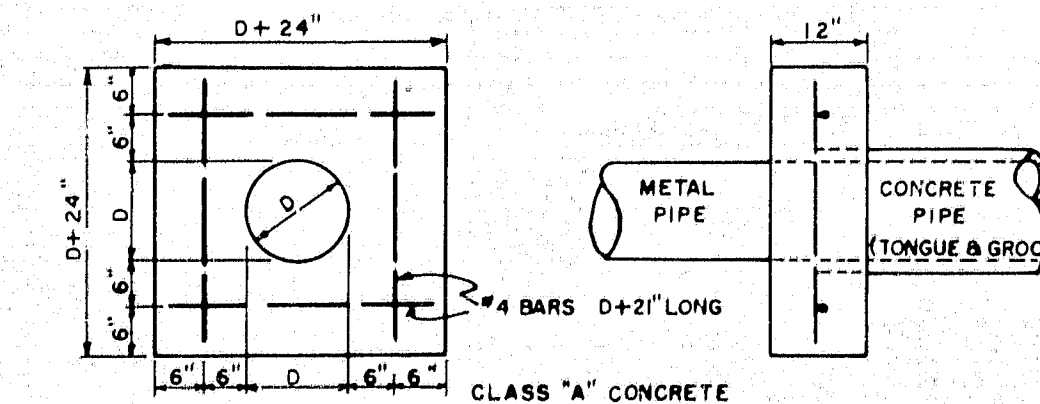
SODDED GUTTER



FIELD STONE CURB



CONCRETE COLLAR

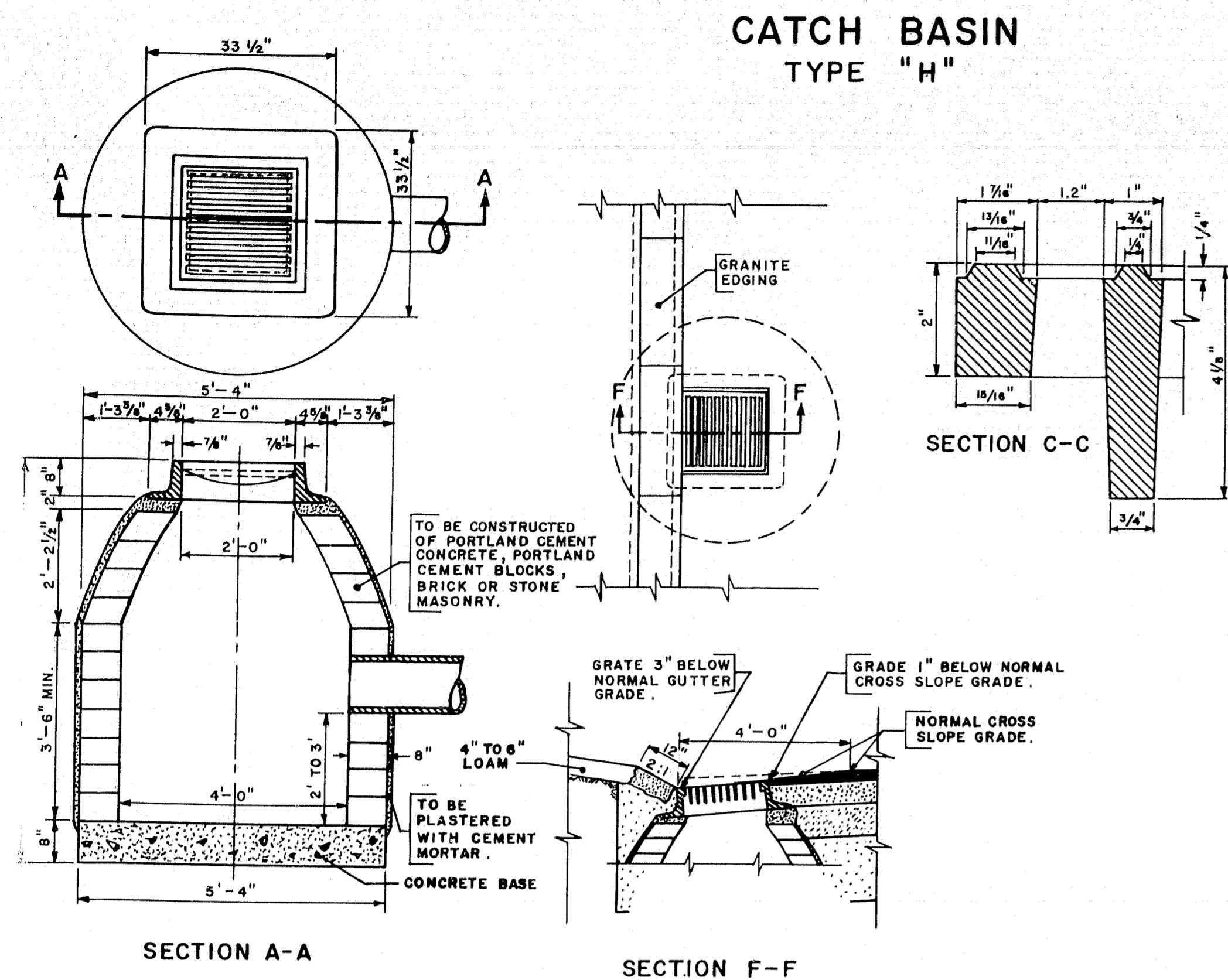


MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

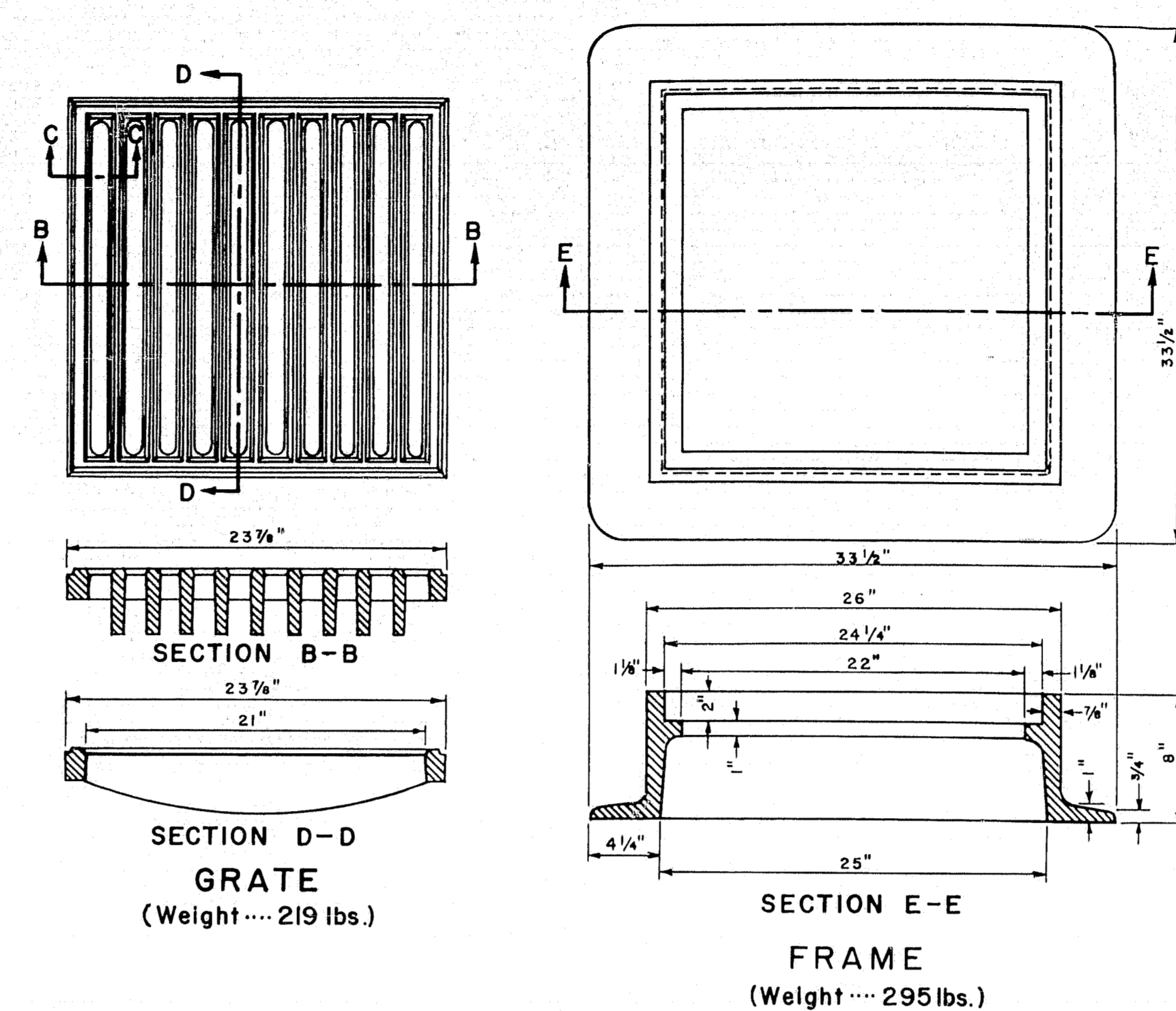
STANDARD DETAILS
MISCELLANEOUS ITEMS

3

78-6



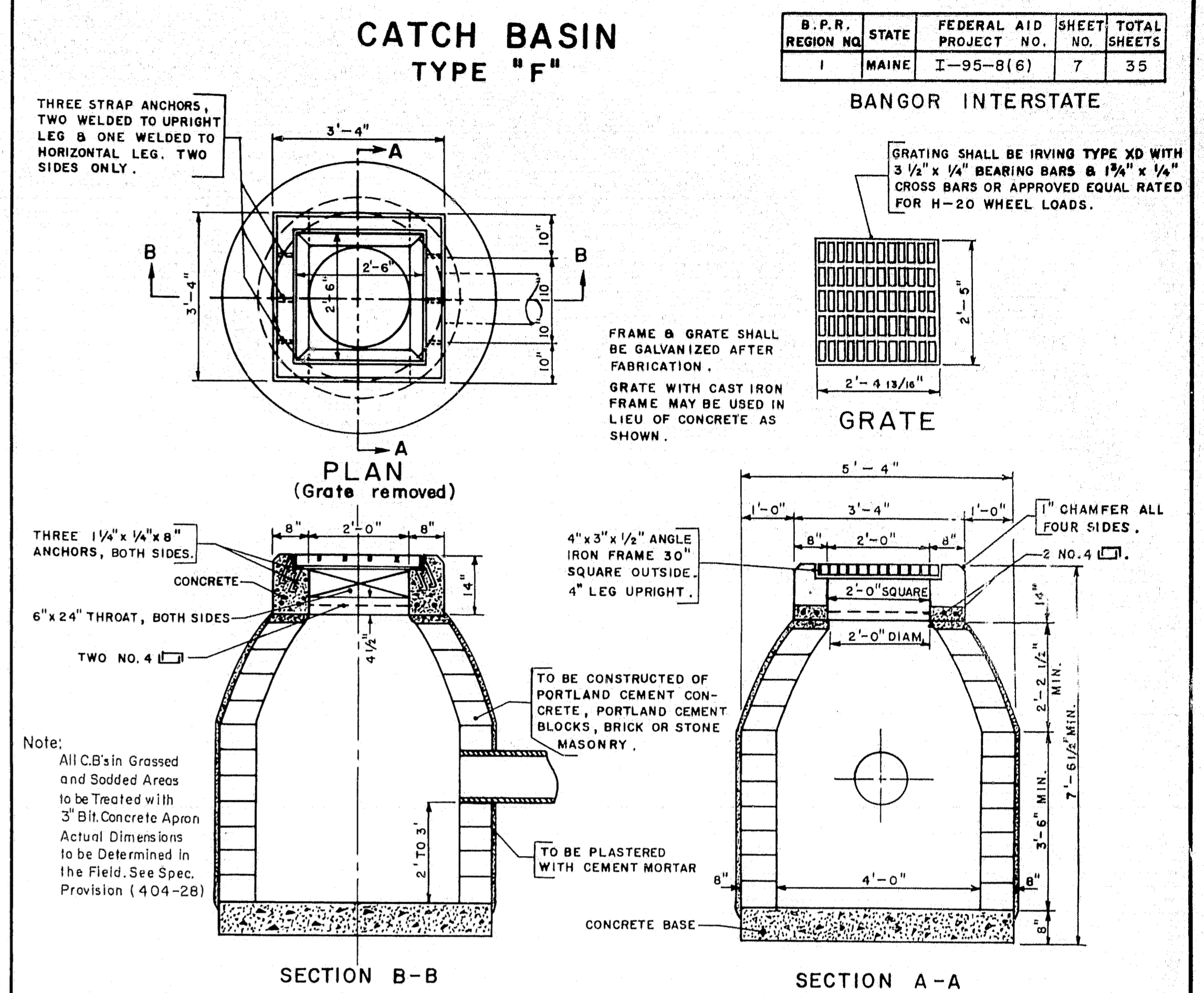
DETAIL OF CATCH BASIN
IN GRANITE EDGING AREA



GRATE
(Weight 219 lbs.)

FRAME
(Weight 295 lbs.)

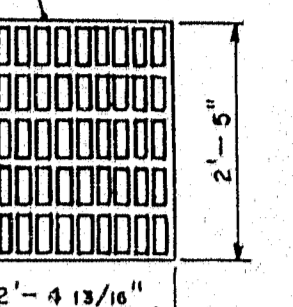
Note: TYPE "H" CATCH BASIN IS TO BE USED IN GRANITE EDGING AREA. (When this type of catch basin is used with sloped or straight curb, the curb on gutter line shall be cut to fit flange.)



B. P. R.	STATE	FEDERAL AID	SHEET	TOTAL
REGION NO.	PROJECT NO.	NO.	NO.	SHEETS
1	MAINE	I-95-8(6)	7	35

BANGOR INTERSTATE

GRATING SHALL BE IRVING TYPE XD WITH 3 1/2" x 1/4" BEARING BARS & 1 1/2" x 1/4" CROSS BARS OR APPROVED EQUAL RATED FOR H-20 WHEEL LOADS.



GRATE

FRAME & GRATE SHALL BE GALVANIZED AFTER FABRICATION. GRATE WITH CAST IRON FRAME MAY BE USED IN LIEU OF CONCRETE AS SHOWN.

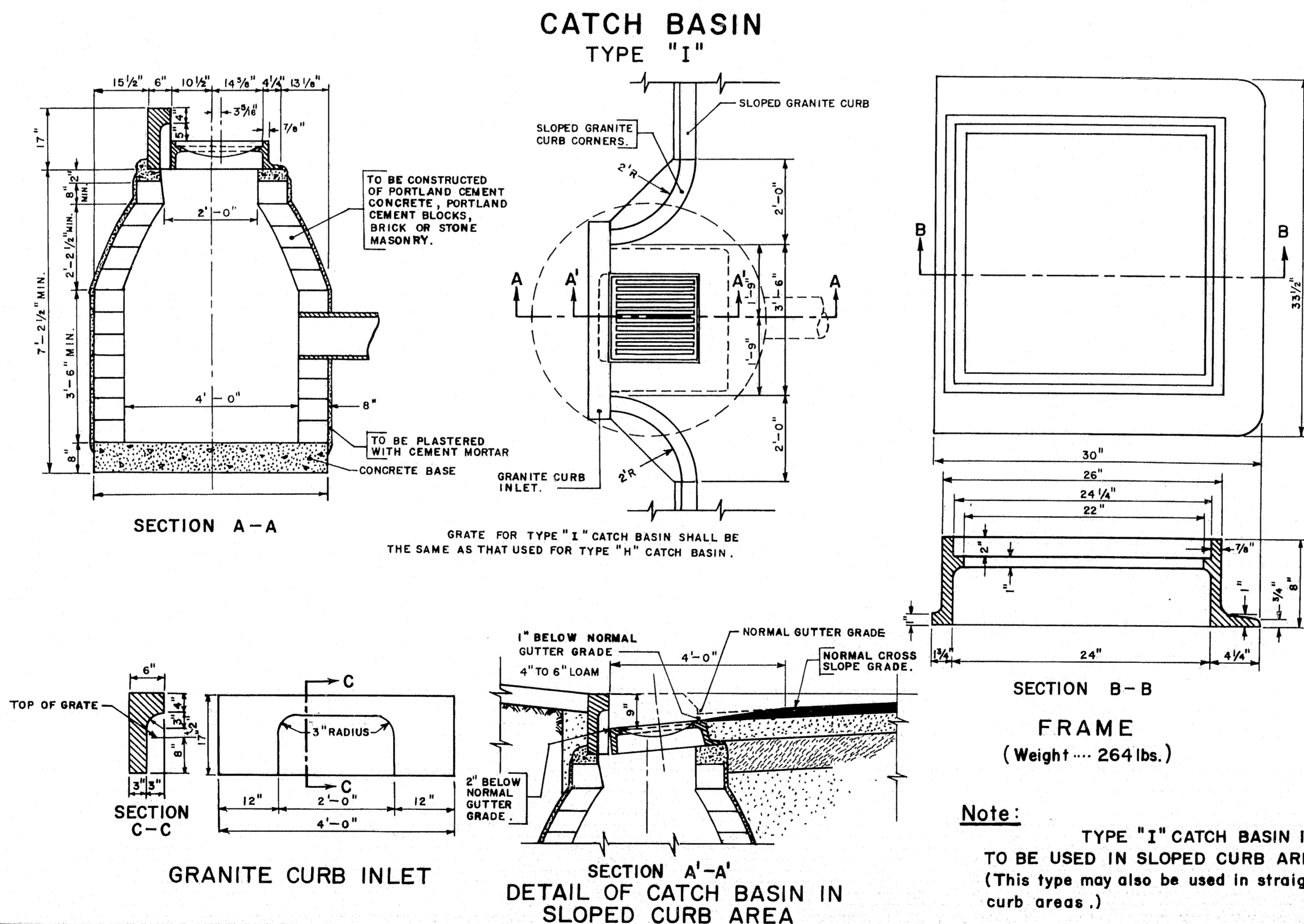
4" x 3" x 1/2" ANGLE IRON FRAME 30" SQUARE OUTSIDE. 4" LEG UPRIGHT.

TO BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, PORTLAND CEMENT BLOCKS, BRICK OR STONE MASONRY.

TO BE PLASTERED WITH CEMENT MORTAR.

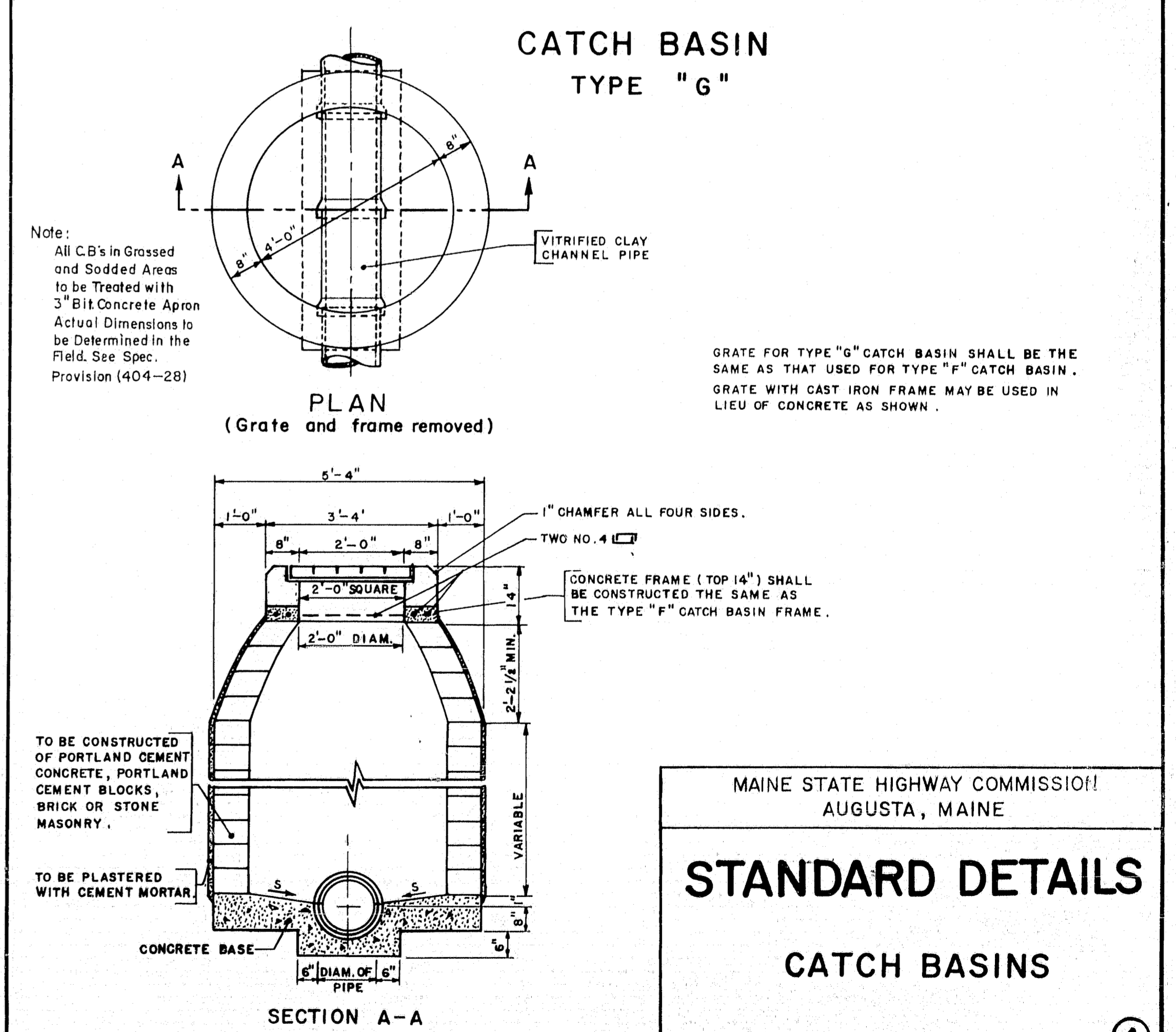
CONCRETE BASE

SECTION A-A



GRATE
(Weight 264 lbs.)

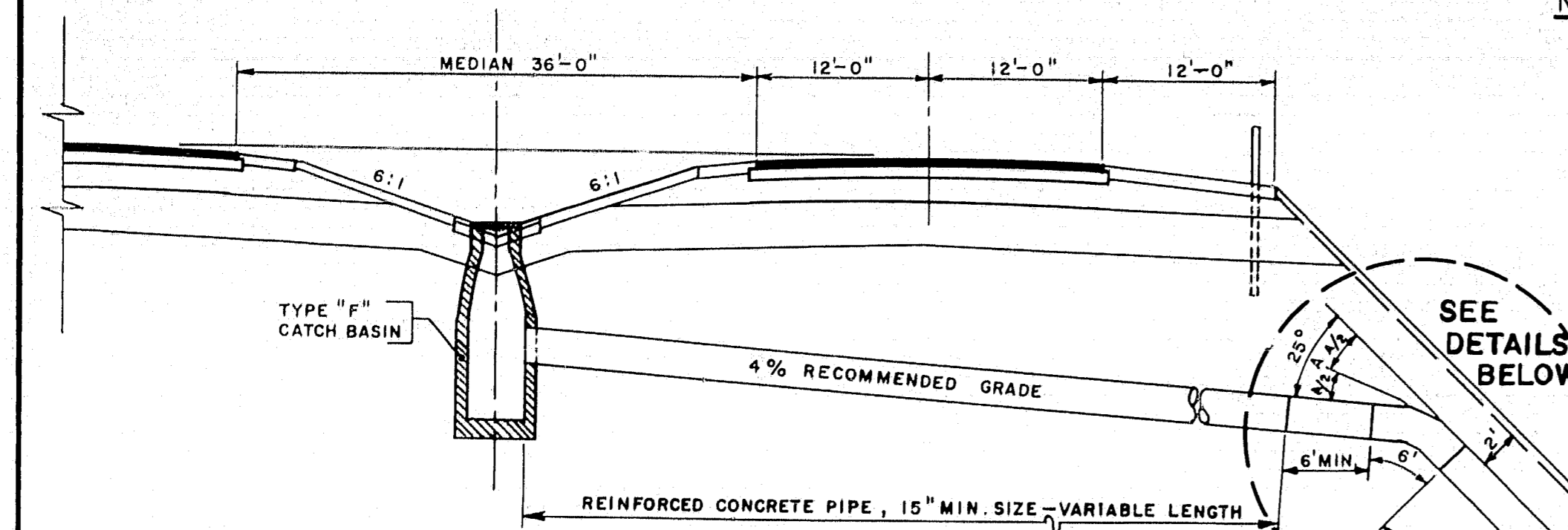
Note: TYPE "I" CATCH BASIN IS TO BE USED IN SLOPED CURB AREA. (This type may also be used in straight curb areas.)



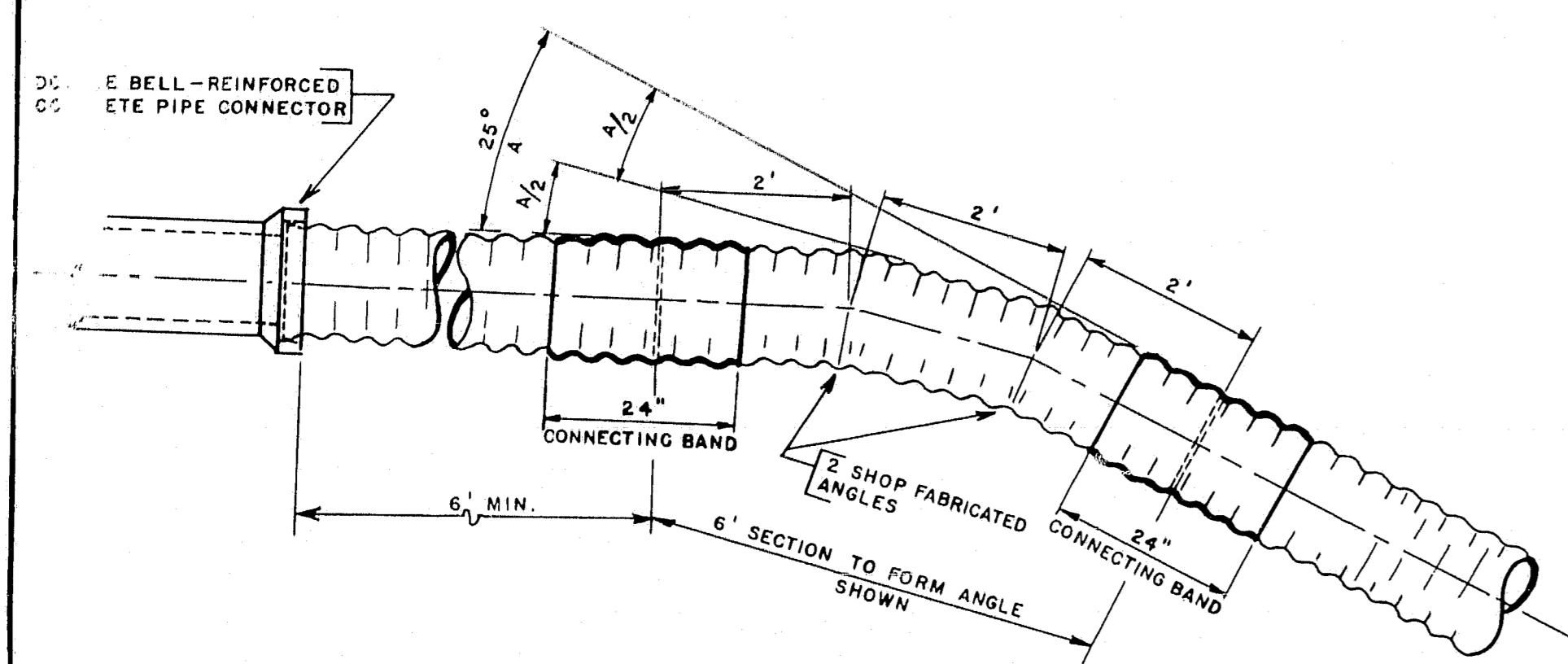
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS
CATCH BASINS

BENDS AND BANDS for A.C.C.M.P. MEDIAN DRAINAGE



DRAINAGE SECTION



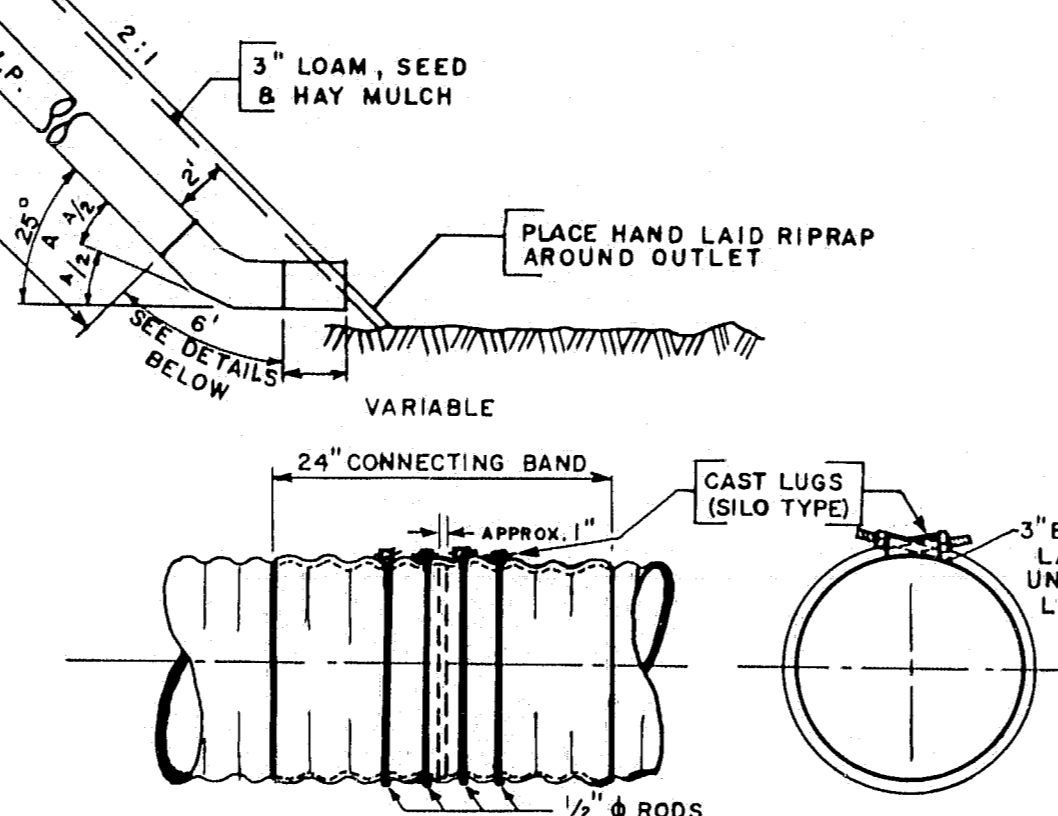
DETAIL OF SIX-FOOT BENDS

NOTE: 24" CONNECTING BANDS SHALL BE USED ON THE ENDS OF EACH ANGLE SECTION. THESE BANDS SHALL BE WATER TIGHT AND DRAWN SECURE BY MEANS OF FOUR THREADED GALVANIZED RODS 1/2" ROUND, PLACED UNIFORMLY EACH SIDE OF THE PIPE ENDS, AND TIGHTENED WITH SILO TYPE LUGS. THE LONGITUDINAL SEAM UNDER THE COLLAR SHALL BE WELDED AND RIVETS OMITTED.

WHEN STRAIGHT LENGTH OF A.C.C.M.P. ON SLOPE EXCEEDS 20 FEET, 24" BAND OR BANDS SHALL BE USED IN THE SAME MANNER AS DESCRIBED ABOVE. AN ITEM COVERING EACH SIZE OF 24" CONNECTING BANDS SHALL BE INCLUDED IN THE PROPOSAL.

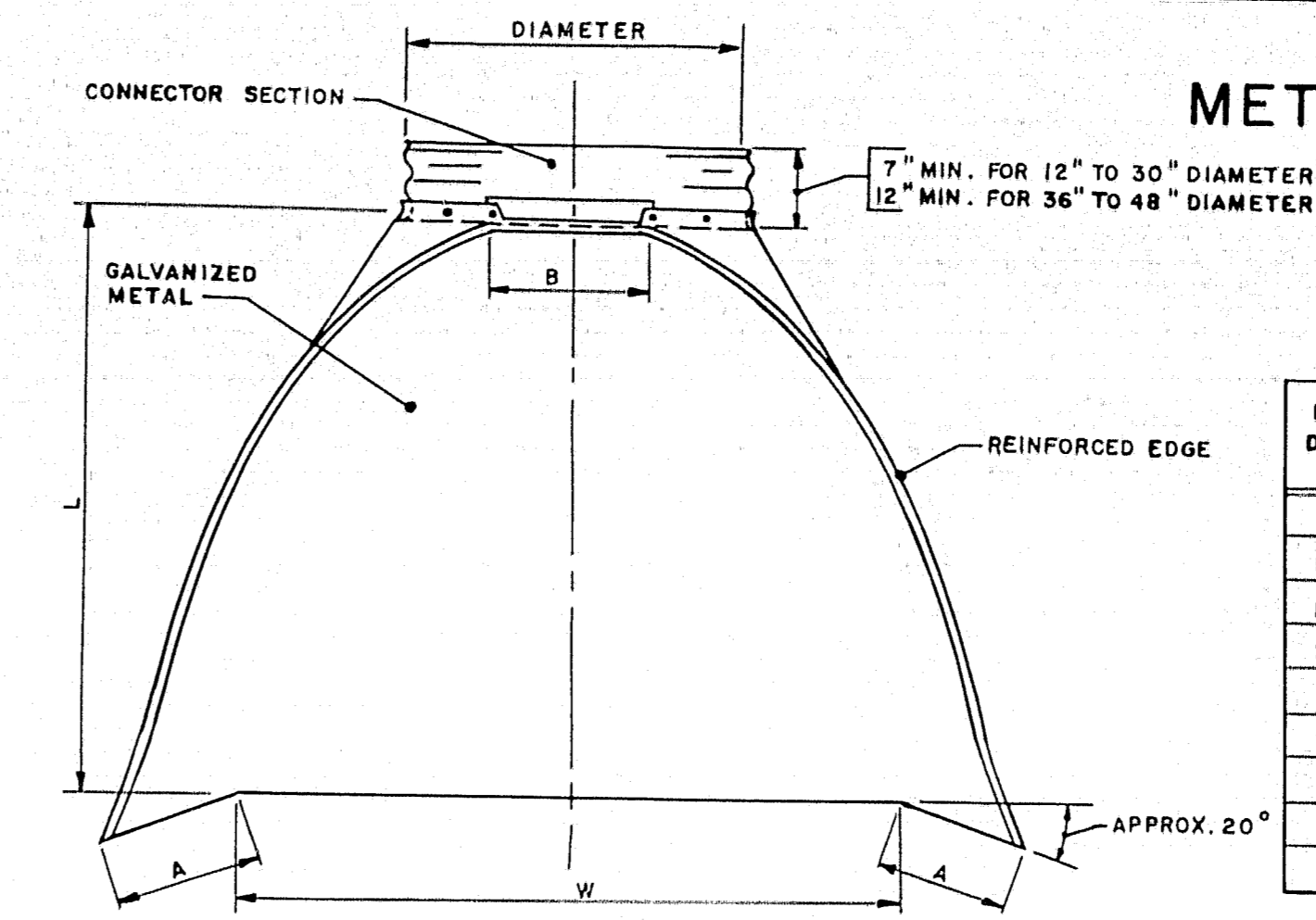
BID ITEMS FOR 15", 18" & 24" A.C.C.M.P. SIX FOOT SECTION TO FORM 25° ANGLE SHALL BE SHOWN IN THE ITEM DESCRIPTION AS "SIX FOOT BENDS". WHEN FILL IS 10' OR MORE IN DEPTH AT THE OUTSIDE SHOULDER BERM USE OUTLET FROM CATCH BASIN AS SHOWN; WHEN FILL IS LESS THAN 10' USE STRAIGHT GRADE LINE FROM CATCH BASIN TO OUTLET END OF PIPE.

SEE DETAILS BELOW

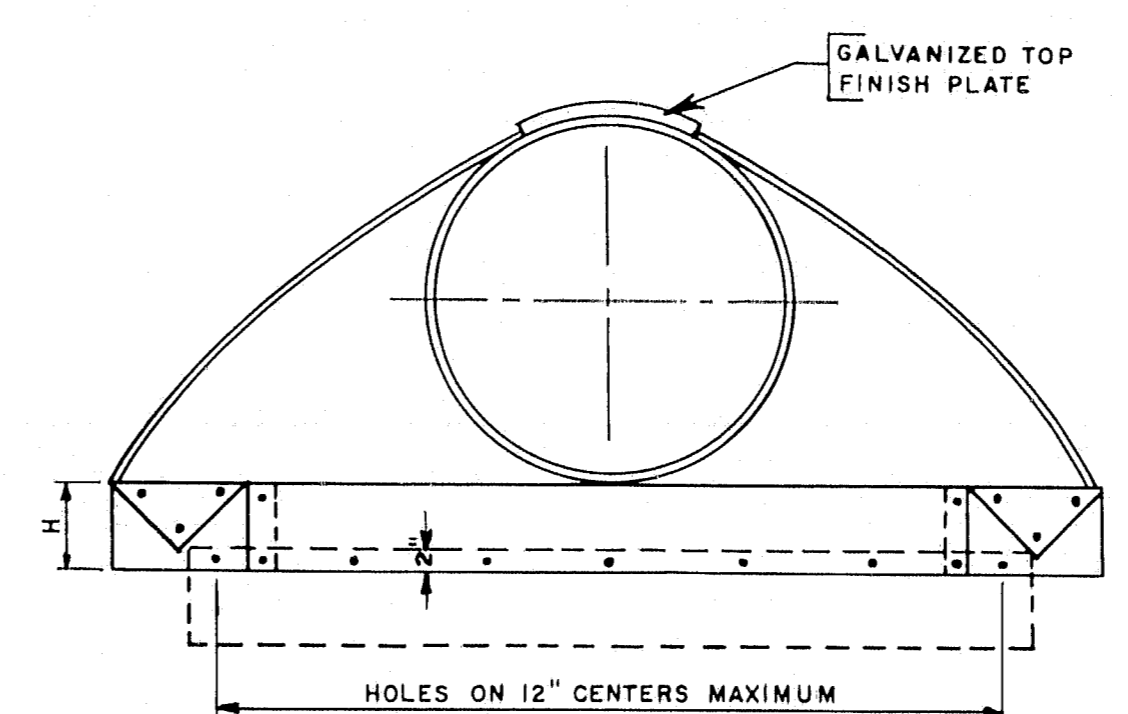


DETAIL OF 24" CONNECTING BANDS

METAL ENDWALLS

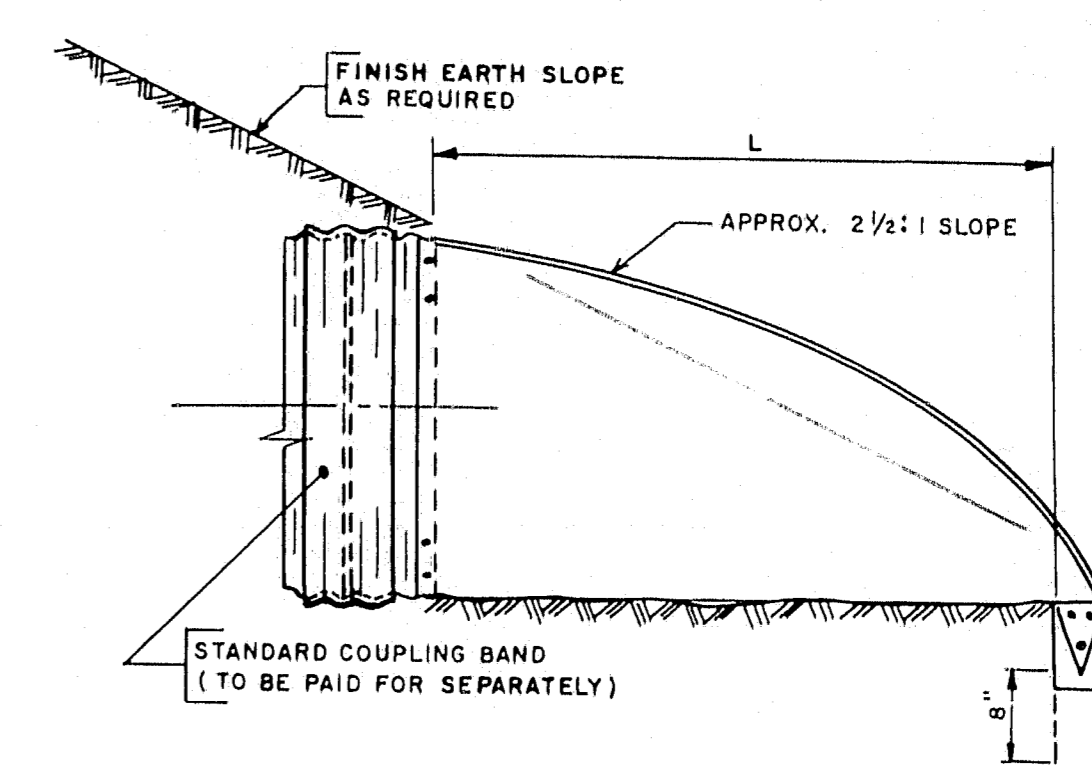


PLAN



ELEVATION

PIPE DIAM.	GAUGE	DIMENSIONS					
		A	B	H	L	W	TOL.
12"	16	4 1/2"	6"	6"	21"	24"	
15"	16	6"	8"	6"	26"	30"	
18"	16	7"	9"	6"	31"	36"	
21"	16	8 1/2"	11"	6"	36"	42"	
24"	14	9 1/2"	12"	6"	42"	48"	
30"	14	12"	15"	7 1/4"	52 1/2"	60"	
36"	12	14"	18"	9"	63"	72"	
42"	12	16"	21"	10 1/2"	73 1/2"	84"	



SIDE ELEVATION

TOE PLATE TO BE PUNCHED TO MATCH HOLES IN SKIRT LIP. LENGTH OF TOE PLATE IS W+10" FOR 12" TO 30" DIAMETER PIPE, INCLUSIVE, AND W+22" FOR 36" TO 42" DIAMETER PIPE INCLUSIVE.

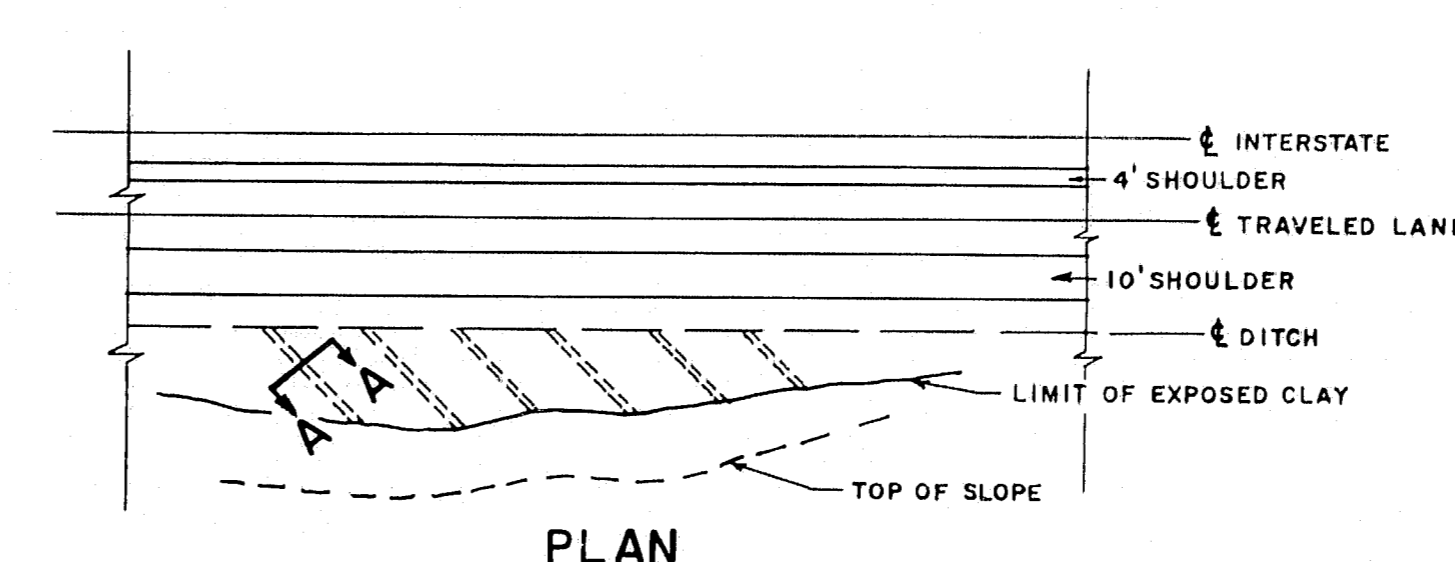
SKIRT SECTION FOR 12" TO 24" DIAMETER PIPE, INCLUSIVE, TO BE MADE IN ONE PIECE. SKIRT SECTION FOR 30" TO 48" DIAMETER PIPE MAY BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTERLINE.

CONNECTOR SECTION, CORNER PLATE AND TOE PLATE TO BE SAME GAUGE AS SKIRT AND EACH TO BE GALVANIZED. TOE PLATE TO BE INCLUDED IN UNIT COST.

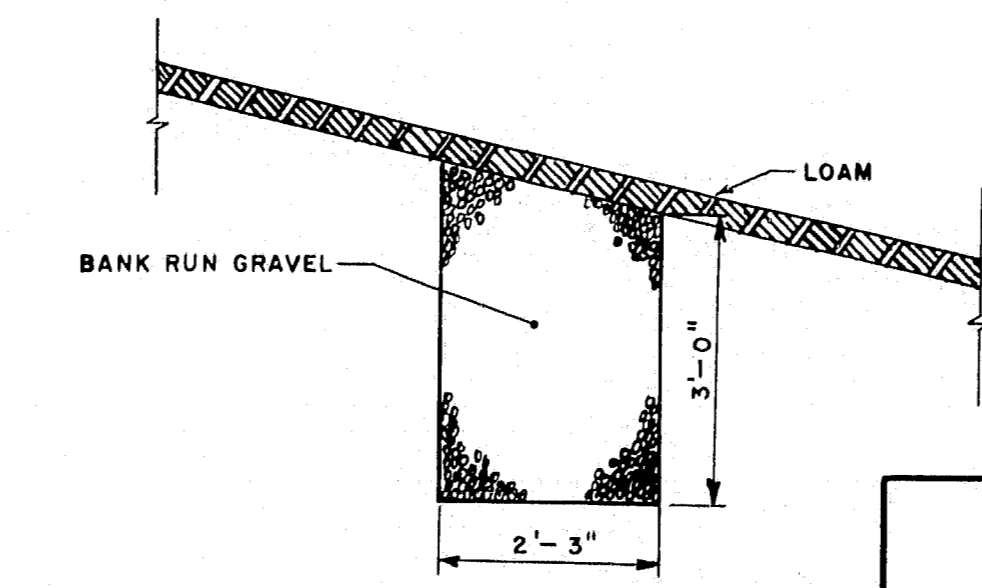
B. P. R. REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	1-95-8(6)	8	35

BANGOR INTERSTATE

CUT SLOPE DRAIN

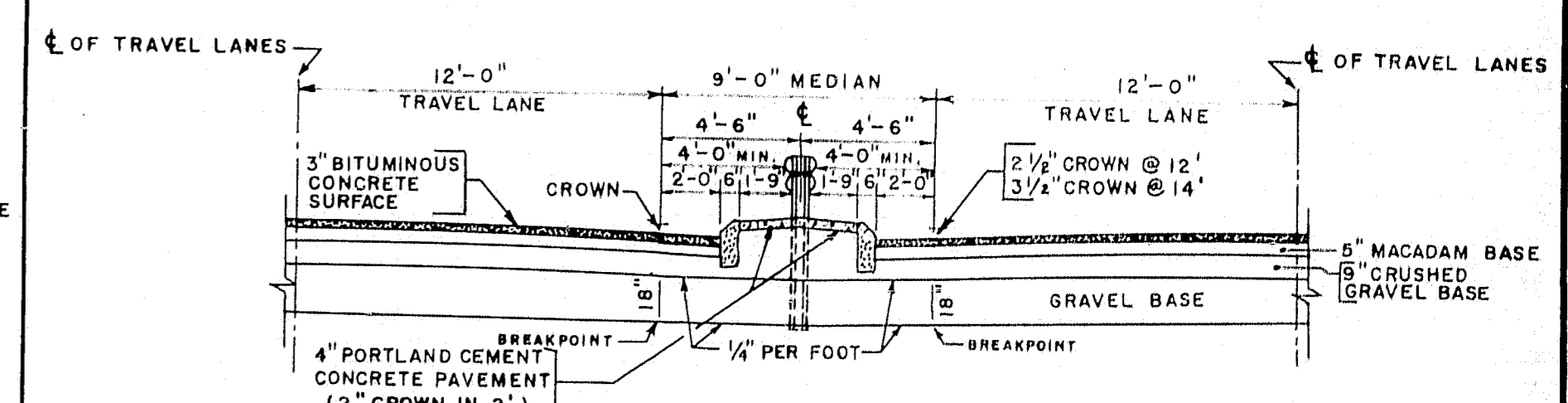


PLAN

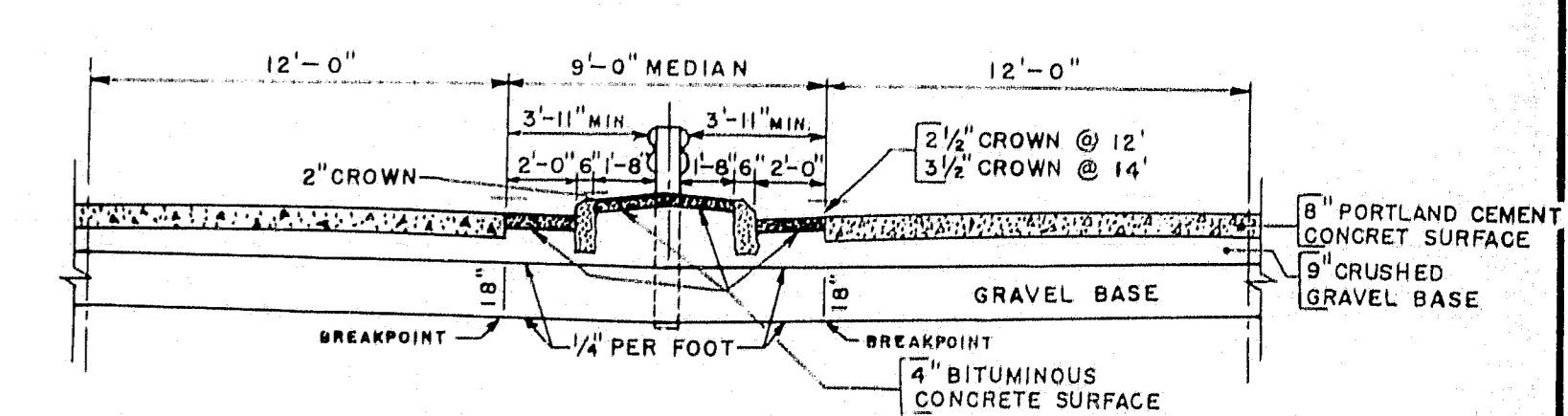


SECTION A-A

9-FOOT MEDIAN

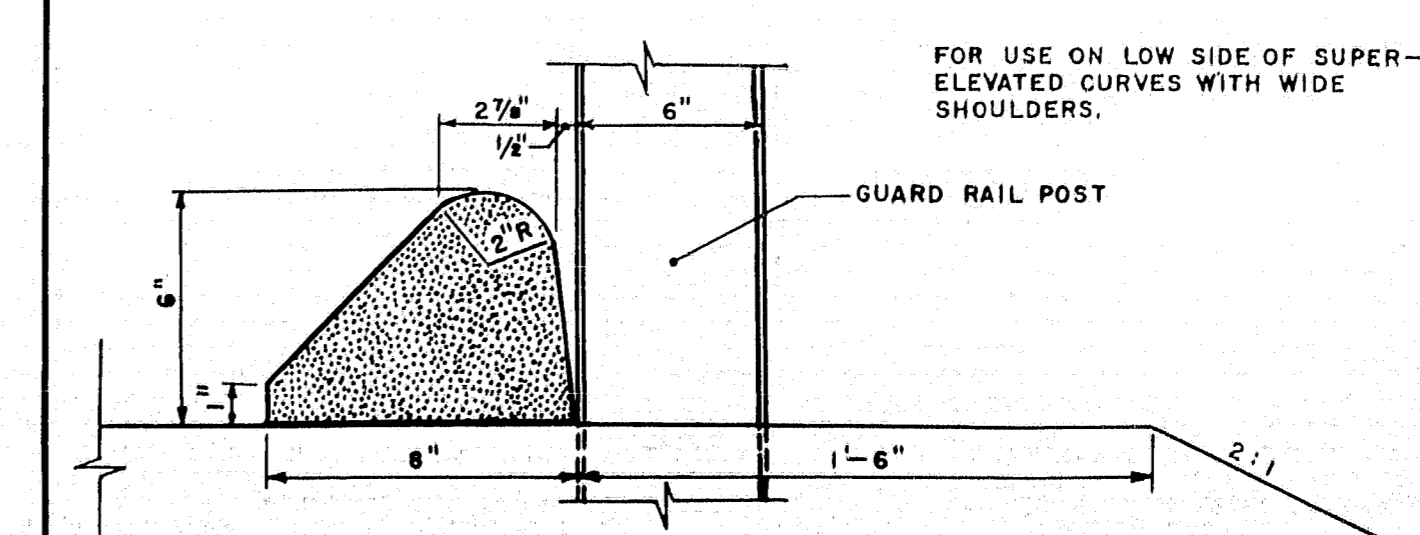


STEEL POST



WOOD POST

BITUMINOUS CONCRETE CURB



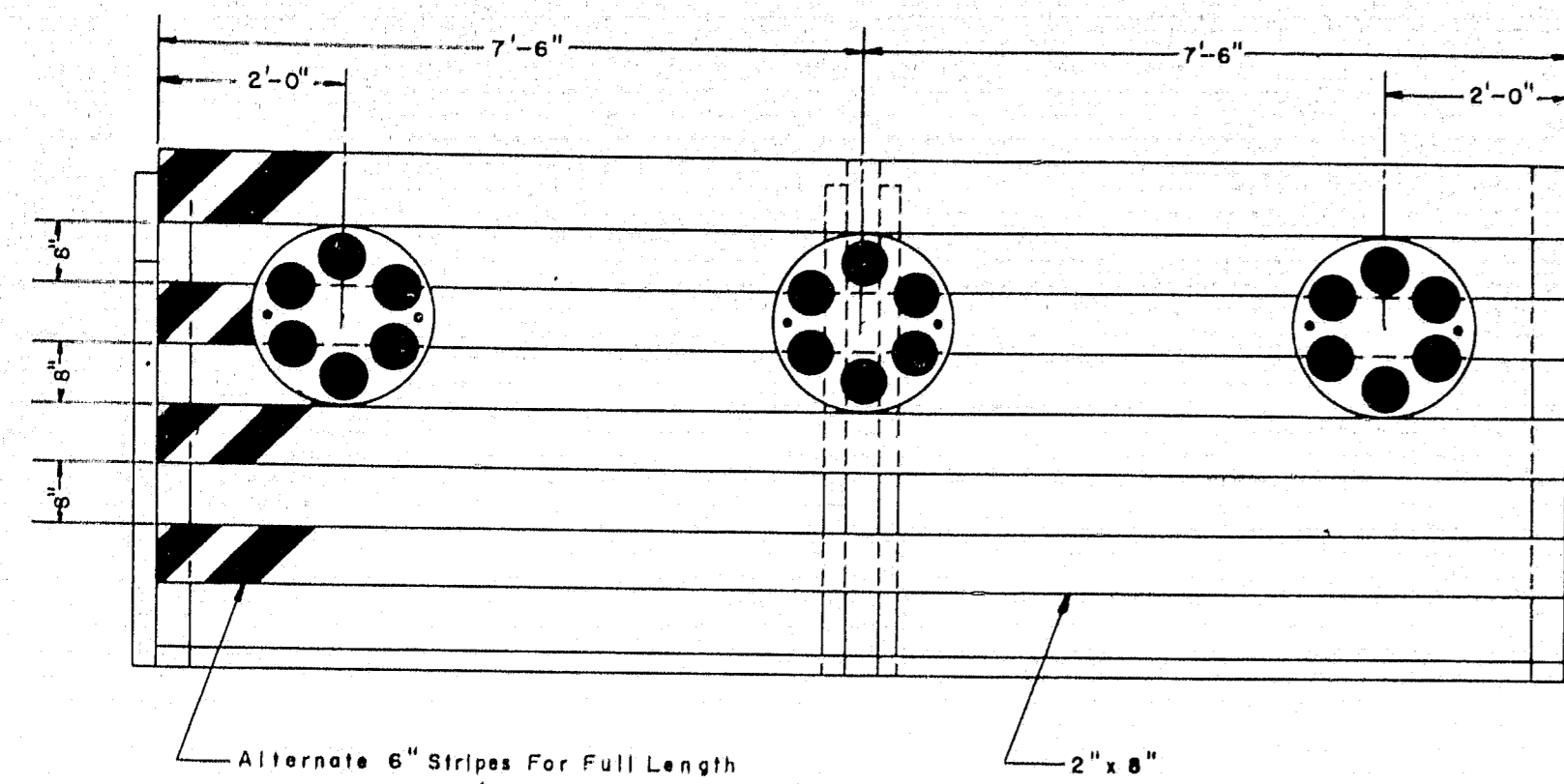
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

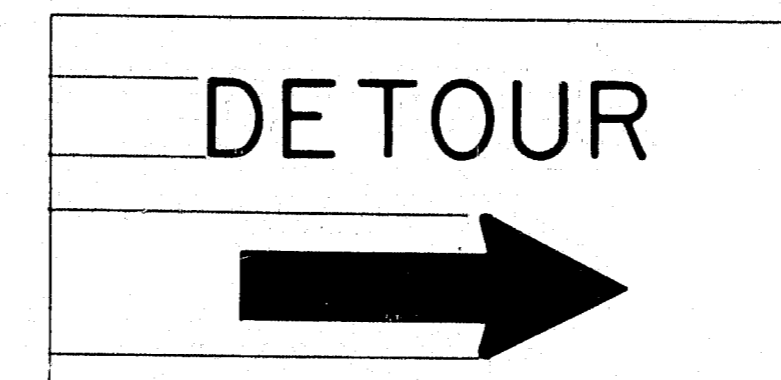
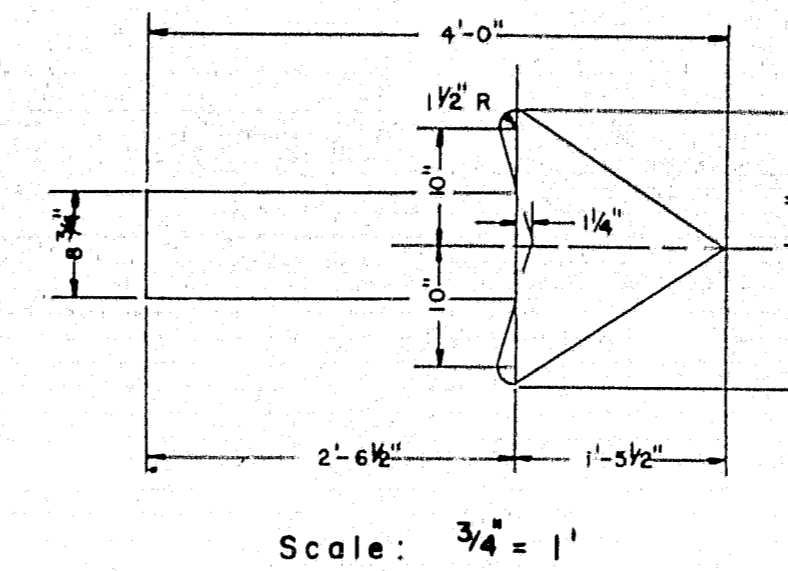
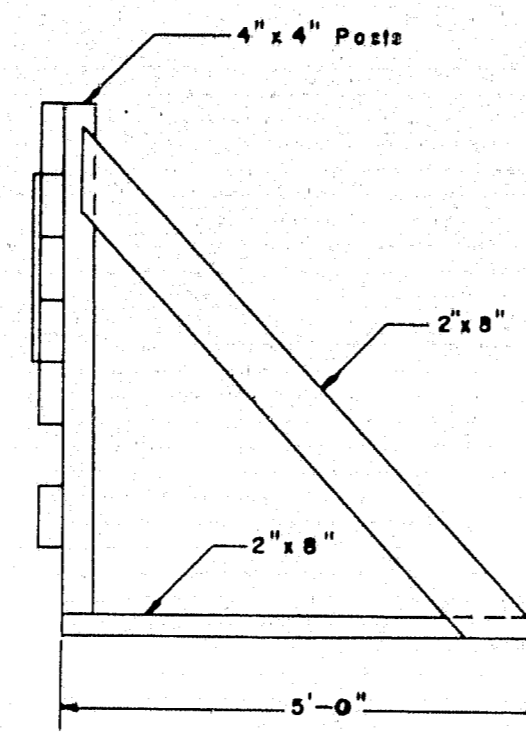
BENDS & BANDS, METAL ENDWALLS, GUARD RAIL ON RAMP, CUT SLOPE DRAIN, 9-FOOT MEDIAN & BITUMINOUS CONCRETE CURB

B. P. R. REG. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-B(6)	9	35

BANGOR INTERSTATE



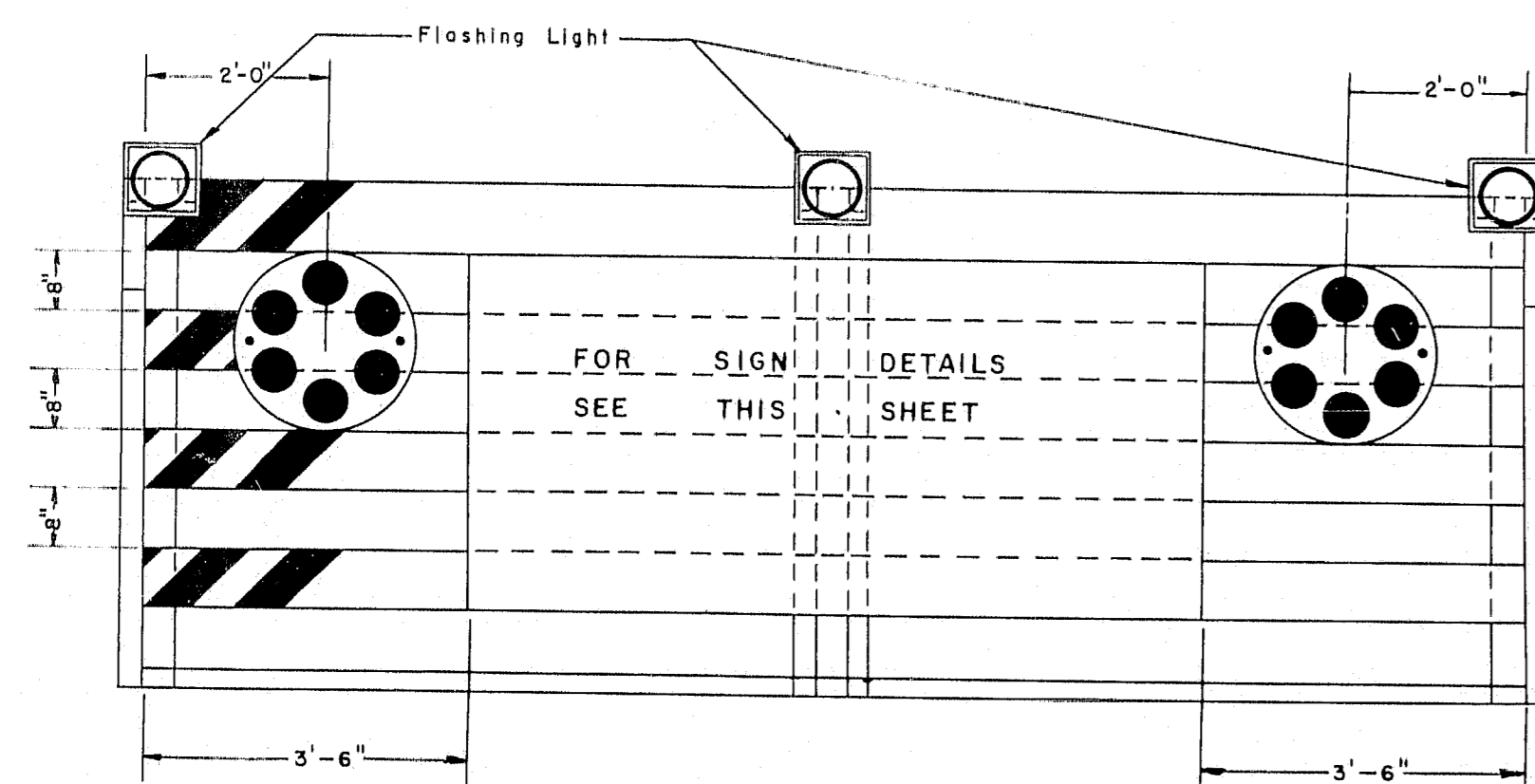
PORTABLE BARRICADE
Scale: $\frac{1}{2}" = 1'$



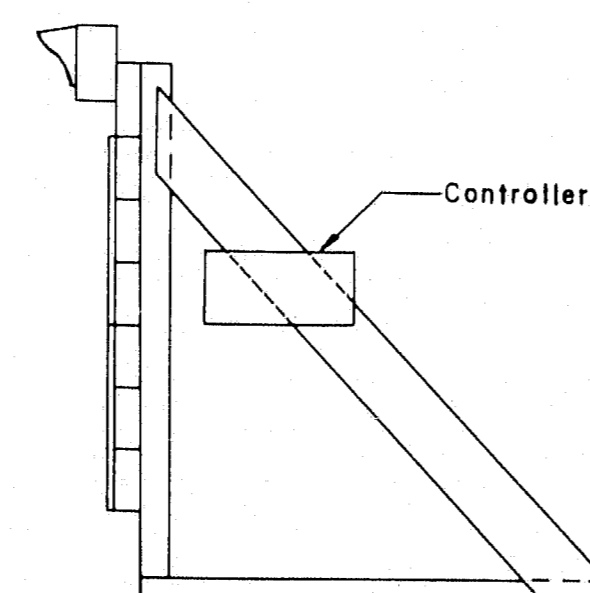
DETOUR SIGN FOR
PORTABLE BARRICADE
Scale: $\frac{1}{2}" = 1'$

GENERAL NOTES:

1. Lumber sizes for use on Barricades shall be 2" x 8" except for Posts which shall be 4" x 4".
2. Detour Sign shall be $\frac{5}{8}"$ thick plywood.
3. Alternate 6" stripes shall be painted or screened in black on a background of silver reflective sheeting.
4. The word "DETOUR" and Arrow shall be painted or screened in black on a background of yellow reflective sheeting.
5. Flashing Lights shall be Mounted to permit rotation to face oncoming traffic.
6. Reflector clusters shall consist of a red background with red Reflectors similar to AGA Designation *1816-A1 (PDON).
7. The Barricades shall be securely anchored in place by means of sandbags, weights, or large stones.
8. Location of Service and Meter to be determined after Power Source has been decided.



PORTABLE BARRICADE
WITH FLASHING LIGHTS
AND DETOUR SIGN
Scale: $\frac{1}{2}" = 1'$



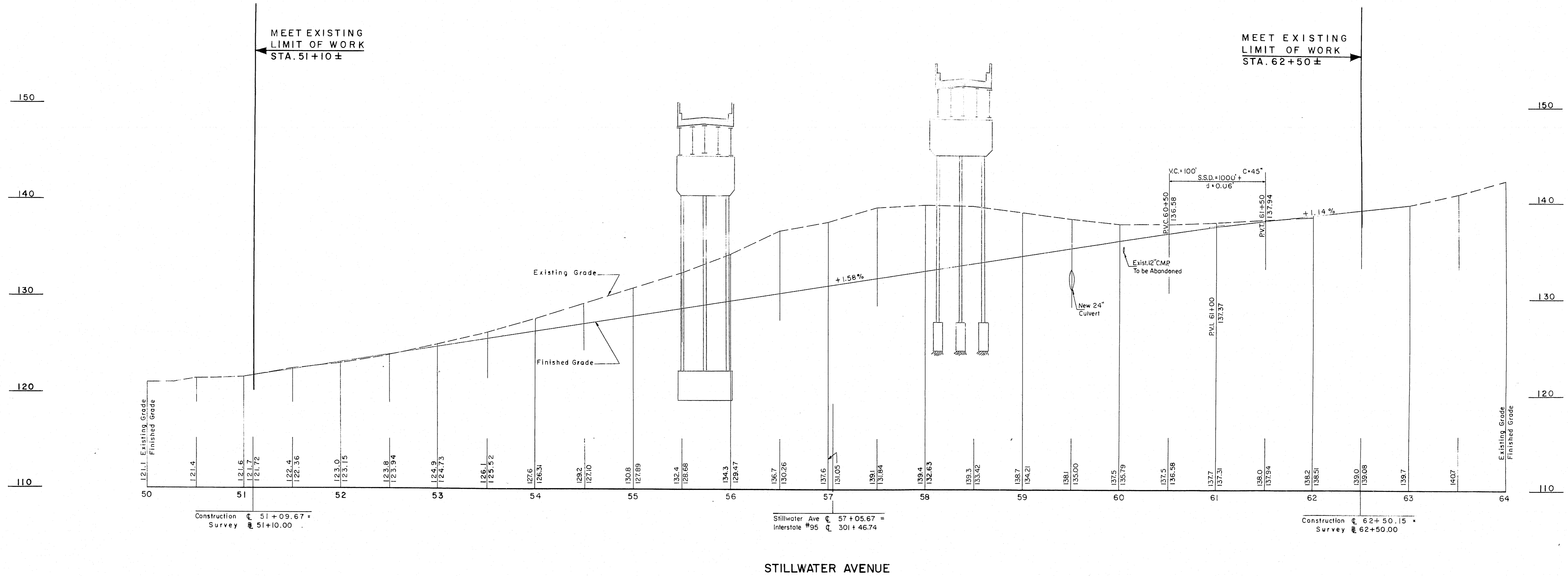
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

SPECIAL DETAILS

PORTABLE BARRICADES

SCALE: AS NOTED

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS



B.P.R. REG NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-8(6)	12	35

BANGOR INTERSTATE

GENERAL NOTES

FOUNDATION:

Foundations may be altered, if necessary, to suit conditions encountered in construction.

DESIGN:

In accordance with the Specifications of the American Association of State Highway Officials for H20-S16-44 loading (1957 Edition) modified for military requirements.

Design Stresses: Structural Steel $f_s = 18,000$ psi
Reinforcing Steel $f_s = 18,000$ psi
Concrete (n=10) $f_c = 1,200$ psi

CONSTRUCTION:

State of Maine Standard Specifications to be followed except as noted in Special Provisions.

REINFORCEMENT:

All bars shall have deformations conforming to A.S.T.M. Designation A305. Unless otherwise shown on plans, reinforcing bars shall be lapped 20 diameters to make a splice, except that main reinforcing bars near the top of slabs and beams having more than 12' of concrete under the bars shall be lapped 35 diameters to make a splice.

STRUCTURAL STEEL:

Wherever cover plates and / or shear connectors are welded to beams, beams and plates shall be weldable structural steel A.S.T.M. Designation A373.

BENCH MARK:

BM S-14 Vertical hinge spike in 28' Elm, 40' east of Stillwater Ave, 0.5 miles South of intersection of Hogan Rd. & Stillwater Ave., 1st in row of 3. Elevation 141.87 U.S.G.S. Datum.
BM S-15 Chiseled square in ledge, 0.1 miles south of Stillwater Ave, 0.3 miles south of BM S-14, highest point on ledge outcrop. Elevation 143.49 U.S.G.S. Datum.

ESTIMATED QUANTITIES

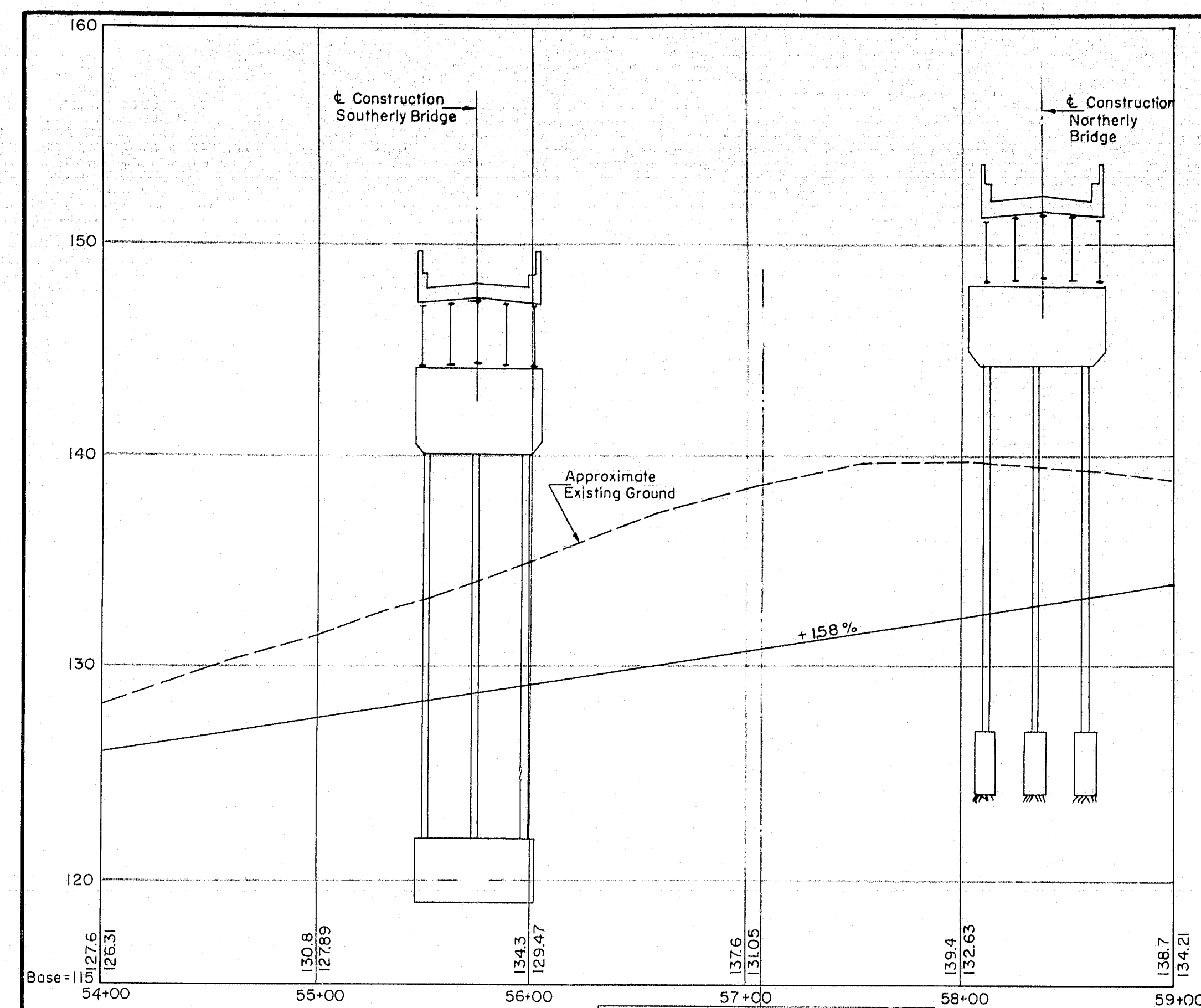
(NOT GUARANTEED)

STRUCTURAL EARTH EXCAVATION, ABUTMENTS AND RETAINING WALLS	240 CU. YDS.
STRUCTURAL ROCK EXCAVATION, ABUTMENTS AND RETAINING WALLS	20 CU. YDS.
STRUCTURAL EARTH EXCAVATION, PIERS	160 CU. YDS.
STRUCTURAL ROCK EXCAVATION, PIERS	120 CU. YDS.
GRAVEL BASE COURSE-IN PLACE MEASUREMENT	690 CU. YDS.
PORTLAND CEMENT CONCRETE, ABUTMENTS AND RETAINING WALLS	550 CU. YDS.
PORTLAND CEMENT CONCRETE, PIERS	290 CU. YDS.
PORTLAND CEMENT CONCRETE, ROADWAY AND SIDEWALK SLABS	
ON STEEL BRIDGES	470 CU. YDS.
PORTLAND CEMENT	1970 BBLs.
BRIDGE DRAINAGE	1 LUMP SUM
STRUCTURAL STEEL, FABRICATED AND DELIVERED	727,900 LBS.
STRUCTURAL STEEL, ERECTION	727,900 LBS.
BRONZE OR COPPER-ALLOY BEARING AND EXPANSION PLATES, DELIVERED	1,350 LBS.
BRONZE OR COPPER-ALLOY BEARING AND EXPANSION PLATES, PLACING	1,350 LBS.
REINFORCING STEEL, DELIVERED	225,000 LBS.
REINFORCING STEEL, PLACING	225,000 LBS.
SHEAR CONNECTORS, DELIVERED AND PLACED	1 LUMP SUM
STEEL H-BEAM PILES (42 LBS./FT.)	1,000 LIN. FT.
FRENCH DRAINS	210 CU. YDS.
ALUMINUM RAILING	950 LIN. FT.
SLOPE PAVING FOR BRIDGES	1,380 SQ. YDS.

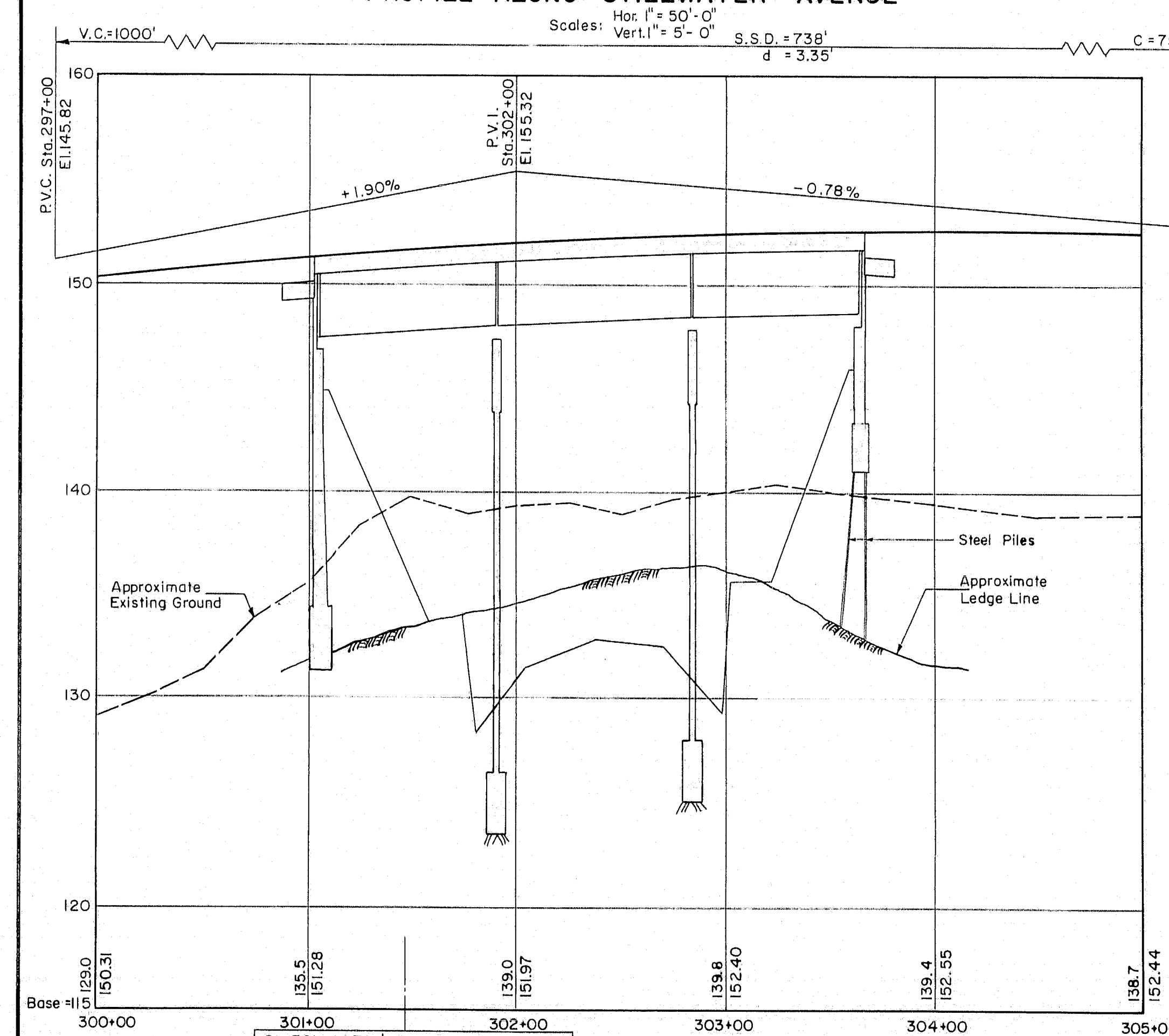
DESIGN	CHECK	D.S.	BRIDGE NO.
DRAWN E.K.	APPROVED C.J.M.	W.A.H.	SURVEY PLOT
STATE HIGHWAY COMMISSION			
INTERSTATE #95			
OVER			
STILLWATER AVENUE			
IN THE CITY OF			
BANGOR			
PENOBSCOT COUNTY			
KEY PLAN & PROFILES			

APPROVED BY *Wm. A. Henderson* DATE 7/25/58
THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASSACHUSETTS

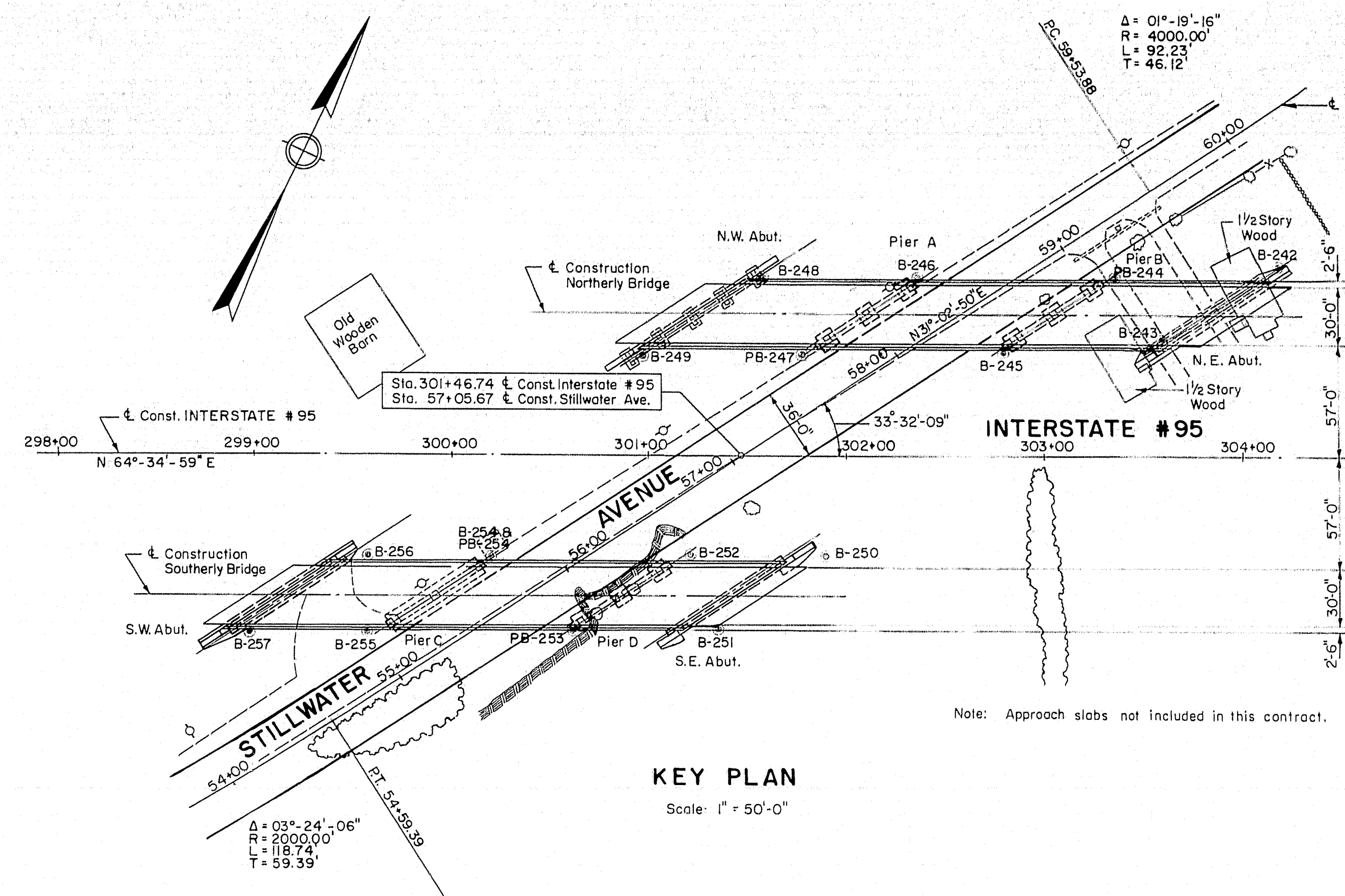
SHEET 1 OF 10 AUGUSTA, MAINE



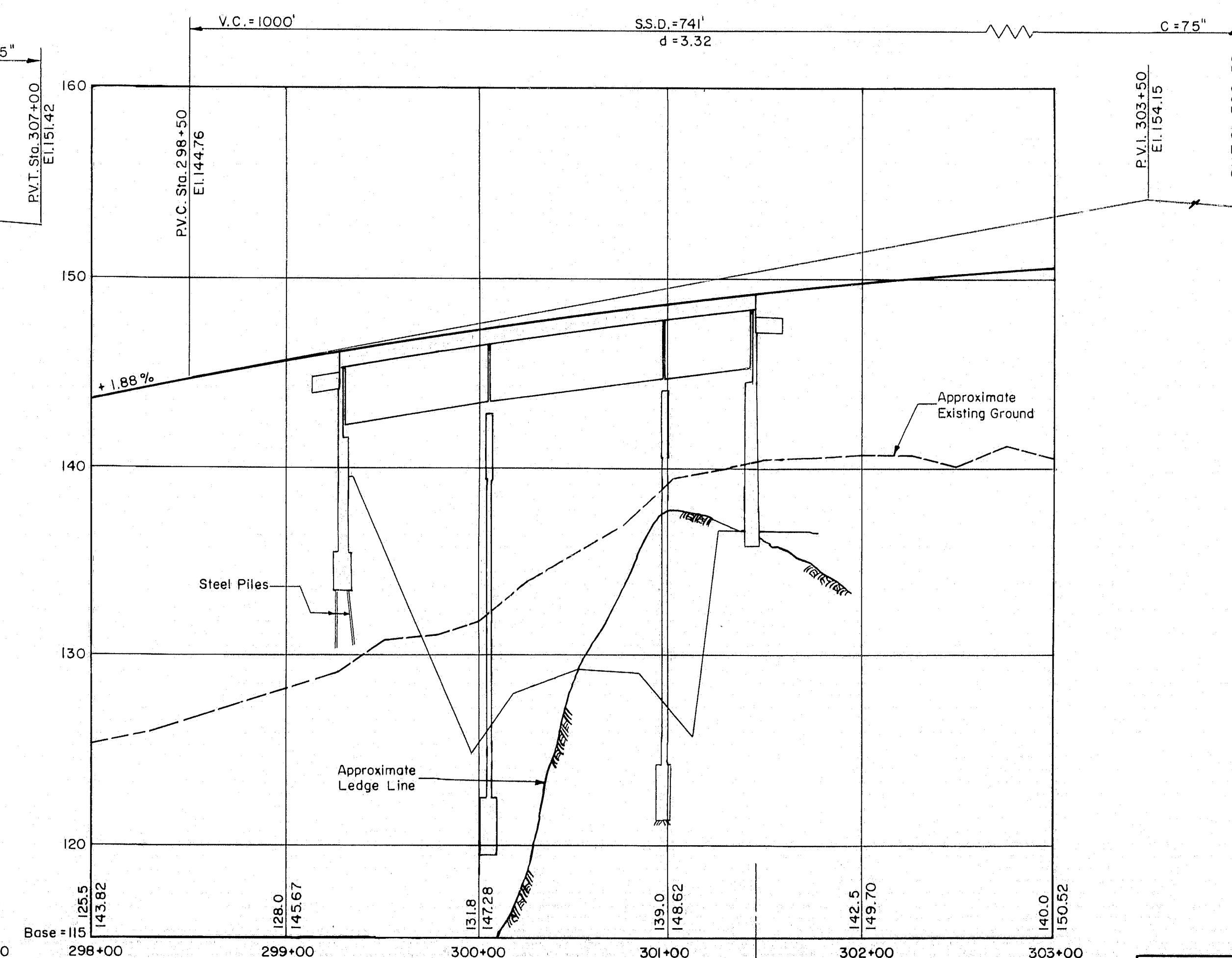
PROFILE ALONG STILLWATER AVENUE



PROFILE ALONG INTERSTATE #95 NORTHERLY BRIDGE



KEY PLAN



PROFILE ALONG INTERSTATE #95 SOUTHERLY BRIDGE

