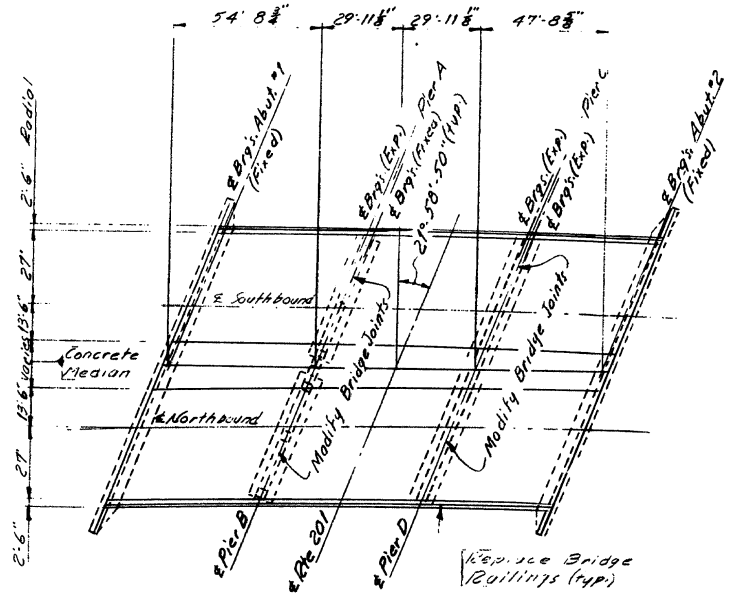
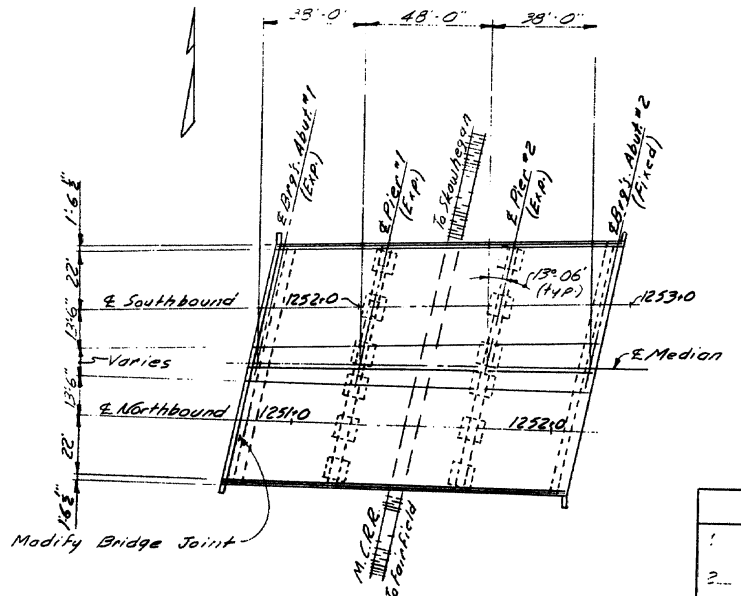
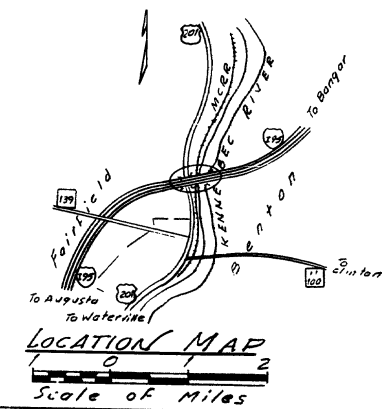
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-7(90)	1	23



I-95 over Route 201



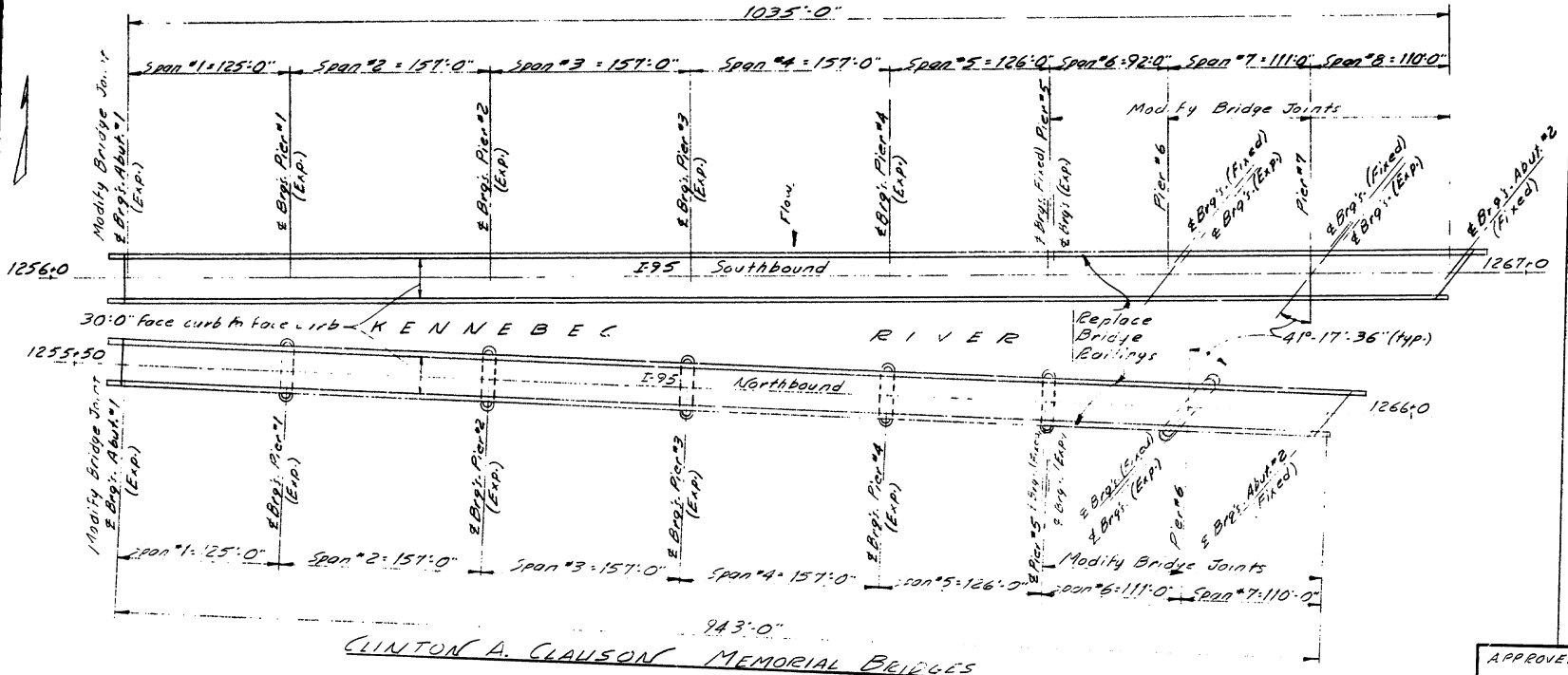
I-95 over Maine Central Railroad



LOCATION MAP

0 1 2

Scale of Miles



CLINTON A. CLAUSON MEMORIAL BRIDGES

INDEX OF SHEETS

1 ... General Plan
2 ... Estimated Bridge Quantities & Construction Notes
3 ... Approaches
4 ... Joint Details at Piers — I-95 over Route 201
5 ... Rd. Post Spacings and Drain Modifications — I-95 over Route 201
6 ... Joint Details at Abut. #1 — I-95 over M.C.R.R.
7 ... End Post Details — I-95 over M.C.R.R.
8 ... Abut. #1 N.B. & S.B. Modified Finger Joint
9 ... Joint Detail Pier #5 N.B. & S.B.
10 ... Joint Detail Pier #6 N.B. & Piers #6 & #7 S.B.
11 ... Joint Detail Abut. #2 N.B. & S.B.
12 ... Joint Sections
13 ... Rail Post Spacings
14 ... End Post No. 1 & No. 2 — Clinton A. Clauson Memorial Bridges
15 ... Reinforcing Steel Schedule

STANDARD DETAIL SHEETS

16 ... 310.114-81 Aluminum Bridge Railing
17 ... BD 120-81 Concrete End Posts
18 ... BD 126-81 Miscellaneous Details
19 ... BD 127-81 Miscellaneous Details
20 ... Type 3 Guard Rail 6
21 thru 23 ... Traffic Control Plans

SPECIFICATIONS

DESIGN: AASHTO Standard Specifications for Highway Bridges 1983 and Interim Specifications 1984 and 1985.

CONTRACT: State of Maine Department of Transportation Standard Specifications Highways and Bridges. Revision of Jan. 1984.

MATERIALS

CONCRETE ..... Class A (except as noted)
REINFORCING STEEL ... ASTM A615 ... Grade 60
STRUCTURAL STEEL .... ASTM A36
H.S. BOLTS ..... ASTM A325 ..... Type 1

BASIC DESIGN STRESSES

CONCRETE ..... F_c = 3,000 psi
REINFORCING STEEL ..... F_y = 60,000 psi
STRUCTURAL STEEL .... ASTM A36 F_y = 36,000 psi
ASTM A325 F_v = 25,000 psi

TRAFFIC

	I-95 N.B.	I-95 S.B.
AADT ... 1987 ...	6745 ...	4865
AADT ... 2007 ...	9445 ...	6810
DHV ...	1228 ...	953
T(%) ...	7 ...	7
D ...	100 ...	100
18 kip ...	P.S. ...	949 ... 715

SCOPE OF WORK

All Bridges: Remove existing pavement and membrane waterproofing. Modify all expansion devices. Place new membrane waterproofing and 3 inches of hot bituminous pavement. Clean and paint existing structural steel.

I-95 over U.S. Route 201: Modify existing bridge drains. Remove existing bridge rail and concrete parapet. Install standard 6 bar aluminum bridge rail.

I-95 over M.C.R.R.: Remove existing end posts and place new concrete end posts.

Clinton A. Clauson: [illegible] of the rail [illegible] 6 bar aluminum bridge rail.

Approaches: Grind grooves across pavement and replace with 3 inches Hot Bituminous Pavement in southerly approach. This only between sta. 11 & 12. Provide pavement grade transitions. Remove, reset and modify guard rail as required.

The entire scope of work includes both northbound and southbound.

P.E. Dist. 6/15/90

119-126

PROJECT DESIGN ENGINEER		BY	DATE
PLANS	DESIGN - DETAILED	E.F.A.	2-86
	CHECKED	J.J.D.	12-87
	REVISIONS		
	FIELD CHANGES		

APPROVED:

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

COMMISSIONER — 2-19-87 DATE

CHIEF ENGINEER — 2-19-87 DATE

UNITED STATES
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 1

APPROVED:

DIVISION ADMINISTRATOR — DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

I-95 over Route 201
I-95 over Maine Central Railroad
Clinton A. Clauson
Memorial Bridges
In the Towns of
Fairfield & Benton
Kennebec & Somerset Counties

GENERAL PLAN

All work contemplated under this contract shall be governed by and in conformity with the Standard Specifications (Revision of 1984 and supplements thereto except as modified on the plans and the Special Provisions.

Plans of the exist'g bridges are available for the Contractors reference at the Bridge Design Office in Augusta. The plans are reproductions of original drawings as prepared for the construction of the bridge and it is very unlikely that the plans will show any field changes or any alterations that may have been made to the bridge during its life-span.

FF 3

BRUNING 44-132 457101

ESTIMATED BRIDGE QUANTITIES

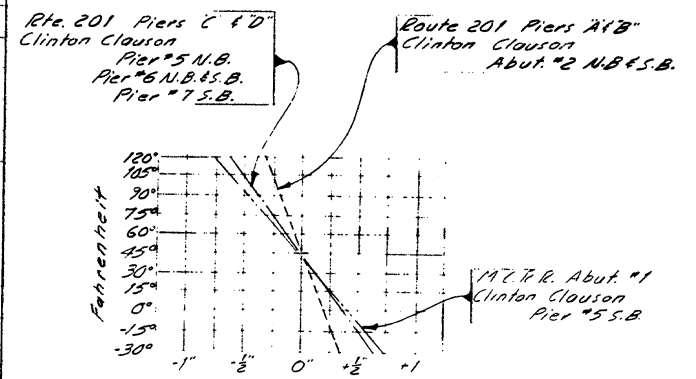
ITEM	DESCRIPTION	QUANTITY	UNIT
202.127	Removal of Existing Bituminous Pavement	1	Lump Sum
202.128	Removal of Existing Concrete Curbs & Sidewalk	1	Lump Sum
202.13	Removing Existing Railings Retained by Department	4,390	Lin. Ft.
202.202	Removing Pavement Surface	6,160	Sq. Yds.
403.07	Hot Bituminous Pavement Grading B	650	Tons
403.08	Hot Bituminous Pavement Grading C	2,000	Tons
403.121	Hot Bituminous Pavement Grading E (Shimming)	50	Tons
410.15	Emulsified Asphalt, Applied	310	Gal.
502.70	Bridge Drains	6	Each
502.75	Plugging Existing Bridge Drains	6	Each
503.12	Reinforcing Steel, Fabricated and Delivered	6,700	Lbs.
503.13	Reinforcing Steel, Placing	6,700	Lbs.
506.142	Field Painting Existing Structural Steel	1	Lump Sum
506.16	Surface Preparation of Existing Structural Steel	3,500	Man Hr.
507.092	Aluminum Bridge Railing 2 Bar	4340	Lin. Ft.
508.13	Membrane Waterproofing (9260 sq. yd.)	1	Lump Sum
518.30	Rehabilitation of Structural Concrete Slab - To Reinforcing Steel	4140	Sq. Ft.
518-31	Rehabilitation of Structural Concrete Slab - to Below Reinforcing Steel	1660	Sq. Ft.
520.2401	Bridge Joint Modification - Route 201 (Piers)	4	Each
520.2402	Bridge Joint Modification - M.C.R.R. (Abut. #1)	1	Each
520.2403	Bridge Joint Modification - Clinton Clauson (Abut. #1)	2	Each
520.2404	Bridge Joint Modification - Clinton Clauson (Piers #5)	2	Each
520.2405	Bridge Joint Modification - Clinton Clauson Piers #6 #7)	3	Each
520.2406	Bridge Joint Modification - Clinton Clauson (Abut. #2)	2	Each
526.30	Temporary Concrete Barrier, Type 1	5,000	Lin. Ft.
526.40	Resetting Temporary Concrete Barrier, Type 1	5,000	Lin. Ft.
527.32	Portable Crash Barrels	10	Each
606.173	Bridge Connections	16	Each
606.364	Guard Rail Remove, Modify and Reset	650	Lin. Ft.
627.611	6 inch Solid White Pavement Marking Line	3,700	Lin. Ft.
627.621	6 inch Broken White Pavement Marking Line	5,700	Lin. Ft.
627.631	6 inch Solid Yellow Pavement Marking Line	3,700	Lin. Ft.
627.67	Removing Pavement Markings	165	Sq. Ft.
627.691	Temporary 6 inch Plastic Pavement Markings, Yellow or White	2,650	Lin. Ft.
639.19	Field Office Type B	1	Each
652.30	Flashing Arrow Board	2	Each
652.31	Type 1 Barricades	80	Each
652.33	Drums	10	Each
652.34	Cones	20	Each

ITEM	DESCRIPTION	QUANTITY	UNIT
652.35	Construction Signs	700	Sq. Ft.
652.36	Maintenance of Traffic Control Devices	170	C.D
652.38	Flagger	800	Man Hr.
659.10	Mobolization	1	Lump Sum

ESTIMATE OF LUMP SUM QUANTITIES

202.127	Removal of Existing Bituminous Pavement	9,125	Sq. Yd.
506.142	Field Painting Existing Structural Steel	2,820,000	Lbs.

PROJECT DESIGN ENGINEER		BY	DATE
PLANS	DESIGN - DETAILED	L.E.T.A	2-87
	CHECKED	Bmid	2-87
	REVISIONS		
	FIELD CHANGES		



COMPRESSION SEAL ADJUSTMENT CHART

1. The seals to be furnished shall have a minimum Movement Rating of:
   Route 201:
   Piers 'A' & 'B' = 5/8"
   Piers 'C' & 'D' = 1 3/8"
   Maine Central Railroad:
   Abutment No. 1 = 1 5/8"
   Clinton A. Clauson:
   Pier "5 N.B. = 1 1/4" S.B. = 1 1/2"
   Pier "6 N.B. & S.B. = 1 3/8"
   Pier "7 S.B. = 1 3/8"
   Abutment "2 N.B. & S.B. = 1/2"
2. [illegible] in the Joint Armor.
3. The joint opening will vary depending on the dimensions of the seal selected by the contractor. The joint opening will be set by the opening shown on the approved shop detail drawings.
4. The Adjustment Chart shows the adjustment [illegible] joint opening for temperatures other than 45°F. Measurements are to be taken parallel to the centerline of construction.

CONSTRUCTION NOTES

1. ____ Size '2 Foot minimum one of traffic shall be maintained in each direction at all times.
2. ____ Removal of pavement [illegible] as directed by the Engineer for under Item 202.202 Removing Pavement Surface.
3. ____ Existing Type 3 guard rail [illegible] designated to be removed, modified or reset shall be modified by removing plate washers except at anchorage assemblies, and by adding backup plates at intermediate posts. Payment will be made under provisions of Subsection 104.03, Extra Work.
4. ____ Reinforcing steel shall have a minimum cover of 2 inches unless otherwise indicated.
5. ____ Existing structural steel shall be cleaned and painted
6. ____ Remove existing wearing surface and place new wearing surface consisting of 2 inches of hot bituminous pavement with membrane waterproofing.
7. ____ Payment for drilling and grouting will be considered incidental to Item 503.13 Reinforcing Steel, Placing.
8. ____ Existing reinforcing steel to remain shall be cleaned as directed prior to placing new concrete.
9. ____ The removal of existing concrete and placing concrete for new concrete end posts including hardware and incidentals shall be paid for under Item 606.173, Bridge Connection.
10. ____ Exact locations and details of construction joints and the expansion device installations where required for these construction shall be as approved.
11. ____ The upturned ends of the compression seals shall be sealed in an approved manner.
12. ____ Protective coating for concrete surfaces shall be applied to all exposed surfaces of new concrete, except at the bottom of slab, and to all newly exposed surfaces of existing concrete. Payment for protective coating will be considered incidental to related contract items.

F.A.P. & REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-1(80)	2	23

13. Removal of the downspouts on Route 201 Bridge will be paid for under Item 502.75, Plugging Existing Bridge Drains. The downspouts are to be retained by the Department.
14. Removal of concrete portion of railings on the Route 201 and the Clinton A. Clauson Bridges will be paid for under Item 202.128 Removal of existing Concrete Curbs and Sidewalks.
15. ____ See Special Provision Section 507 for the drilling and grouting of rail post anchors
16. ____ Removal and re-installation of the plaque in the northbound Clinton A Clauson bridge shall be done as directed by the Engineer. Payment to removing and re-installation of the plaque will be considered incidental to related contract Items.

LEGEND

N.F. = Near Face	N.B. = Northbound
F.F. = Far Face	S.B. = Southbound
E.F. = Each Face	@ = spaces
	@ = at

SYMBOLS

- New Concrete (Plan & Elevation)
- New Concrete (Section)
- Existing Concrete & Granite (to be removed)
- Existing Concrete (to remain)
- Hot Bituminous Pavement
- Existing Granite (to remain)

119-127

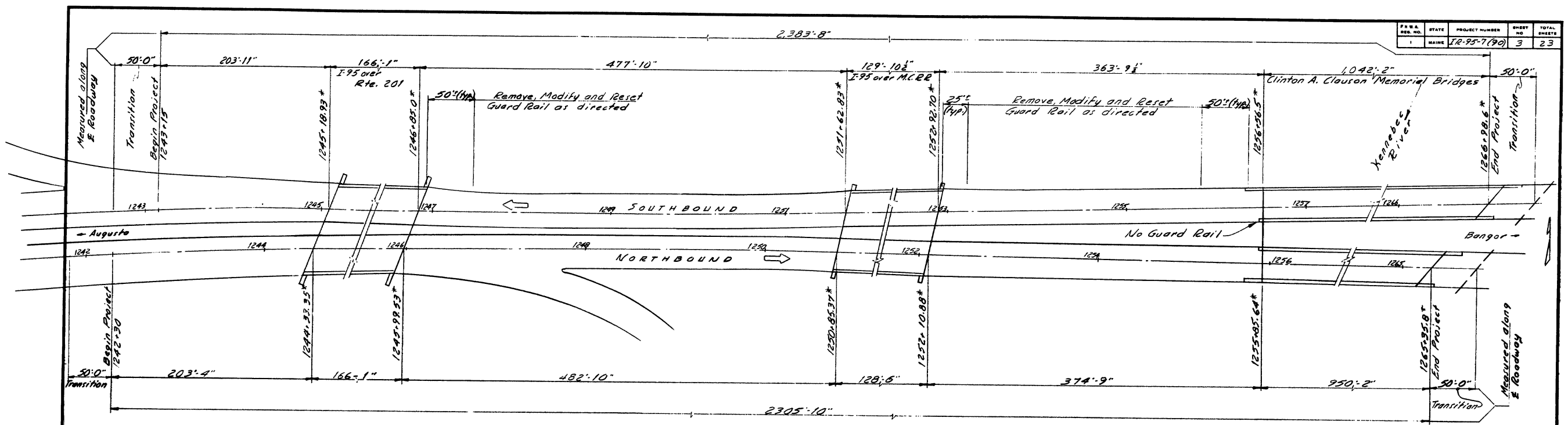
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

I-95 OVER ROUTE 201
I-95 OVER MAINE CENTRAL RAILROAD
CLINTON A. CLAUSON
MEMORIAL BRIDGES
IN THE TOWNS OF
FAIRFIELD & BENTON
KENNEBEC & SOMERSET COUNTIES
ESTIMATED QUANTITIES
CONSTRUCTION NOTES

SHEET 2 OF 23 AUGUSTA, MAINE

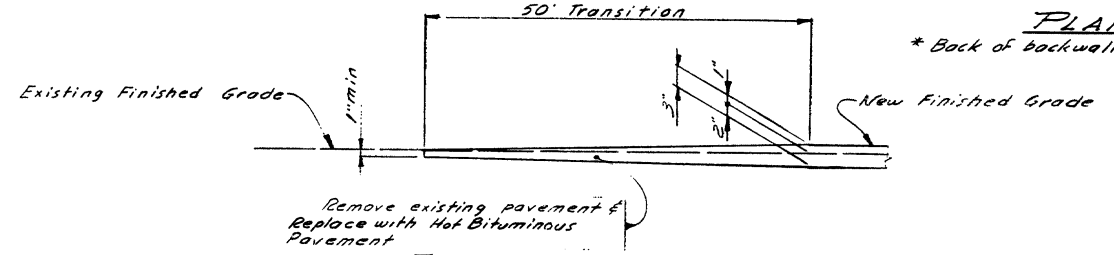
BRUNING 44 132 42710.1

FHWA REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-7(90)	3	23

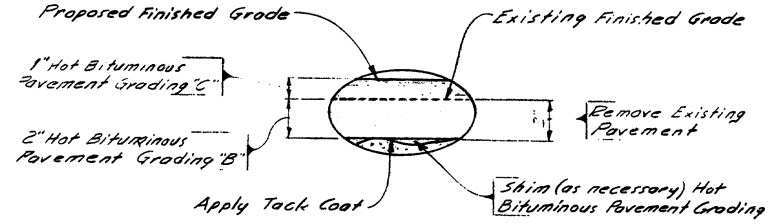


PLAN

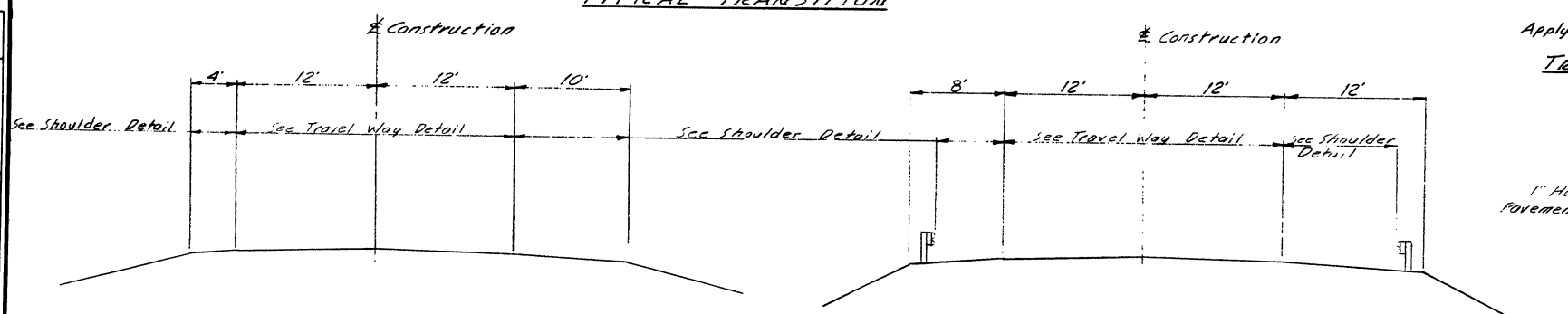
* Back of backwall station



TYPICAL TRANSITION



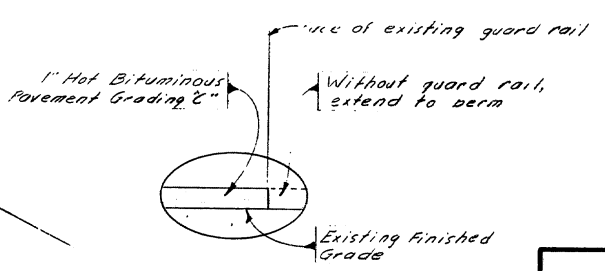
TRAVEL WAY DETAIL



WITHOUT GUARD RAIL

WITH GUARD RAIL

TYPICAL APPROACH SECTION



SHOULDER DETAIL

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN-DETAILED	R.T.M.	12-86
CHECKED	RTM	2-87
REVISIONS		
FIELD CHANGES		

PLANS

BRUNING 44-132 45710-1

119-128

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

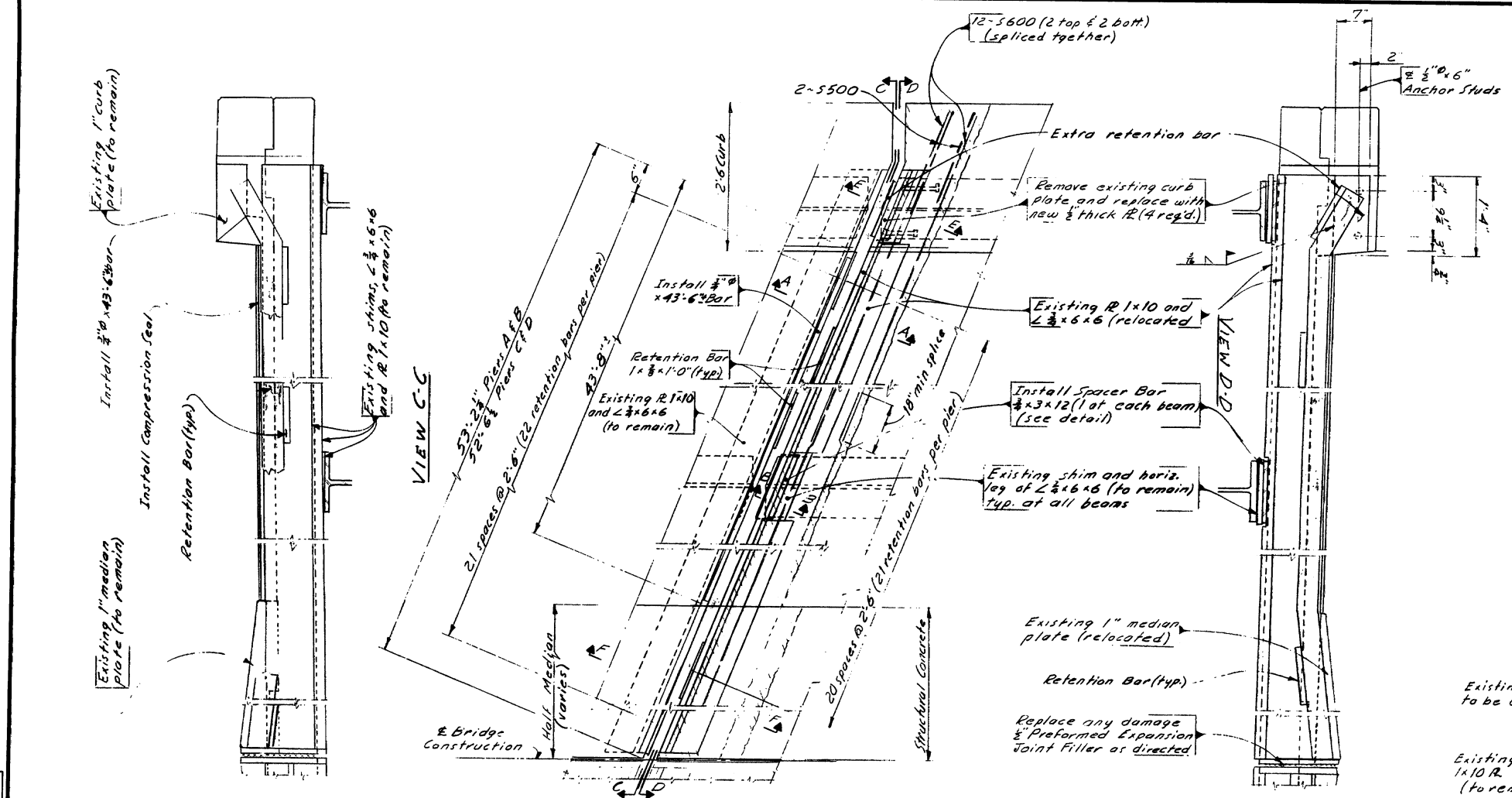
I-95 OVER RTE 201
I-95 OVER MAINE CENTRAL RAILROAD
CLINTON A. CLAUSON
MEMORIAL BRIDGES
IN THE TOWNS OF
FAIRFIELD - BENTON

APPROACHES

SHEET 3 OF 23 AUGUSTA, MAINE

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-7(90)	4	23

PROJECT DESIGN ENGINEER		BY	DATE
PLANS	DESIGN - DETAILED	R.F.A.	7-86
	CHECKED	DMD	2-87
	REVISIONS		
	FIELD CHANGES		



119-129

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95

OVER

ROUTE 201

IN THE TOWN OF

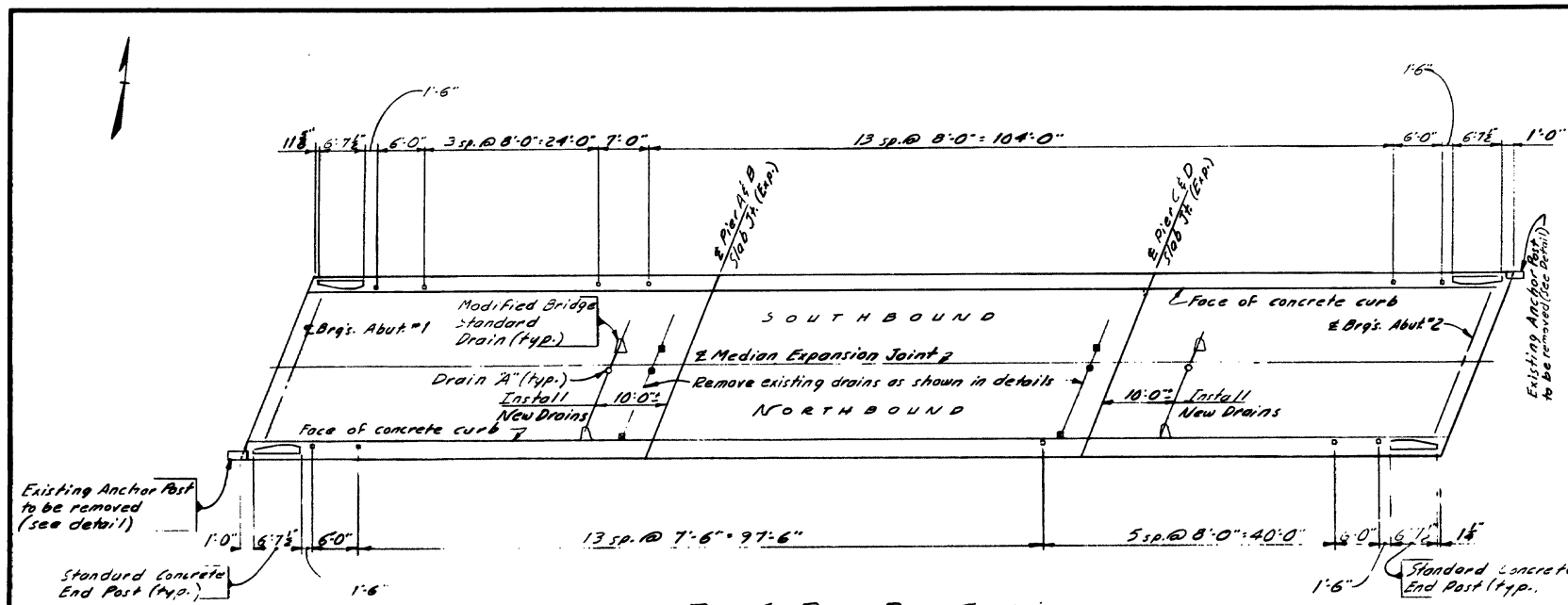
FAIRFIELD

JOINT DETAILS AT PIERS

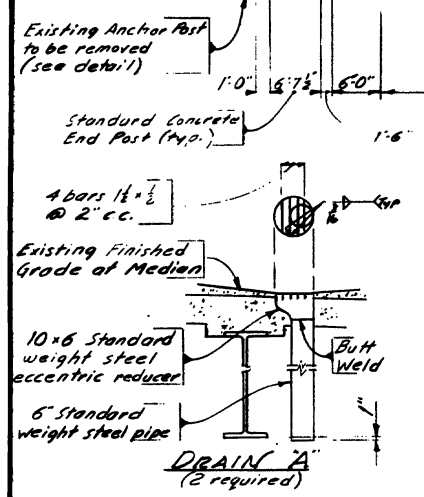
SHEET 4 OF 23 AUGUSTA, MAINE

BRUNING 44-132 45710-1

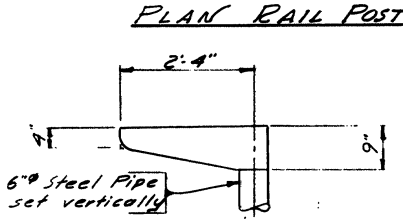
FHWA REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	I-2-95-7(90)	5	23



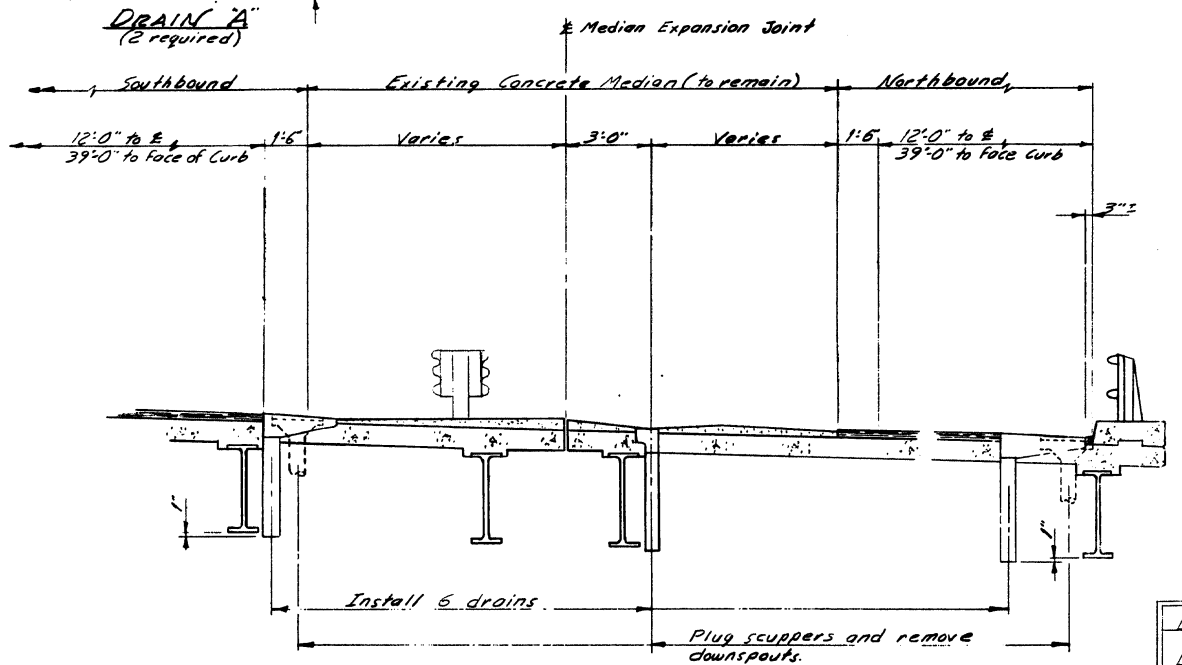
PLAN RAIL POST SPACINGS



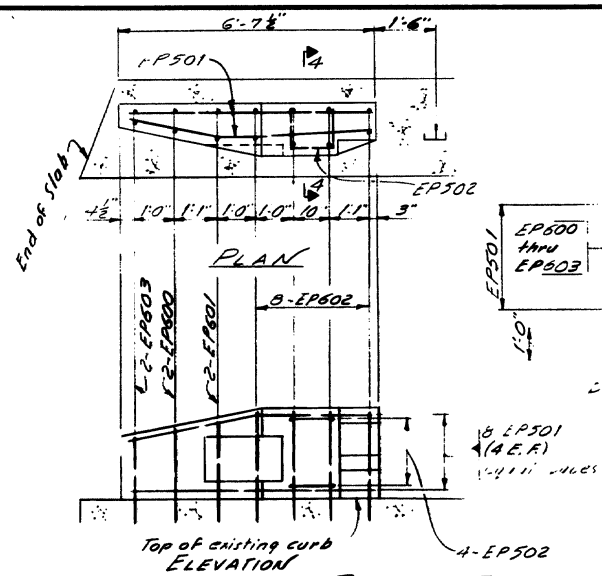
DRAIN "A"
(2 required)



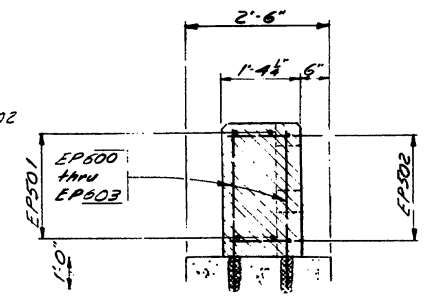
MODIFIED BRIDGE STANDARD DRAIN
(4 required)



TYPICAL TRANSVERSE SECTION AT MEDIAN

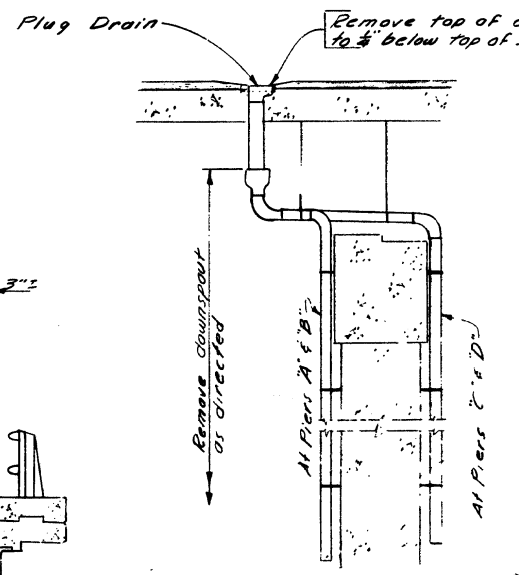


END POST DETAIL

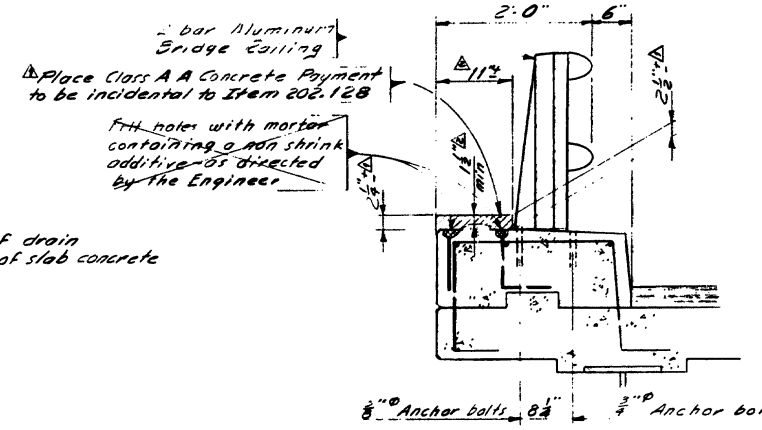


SECTION 4-4

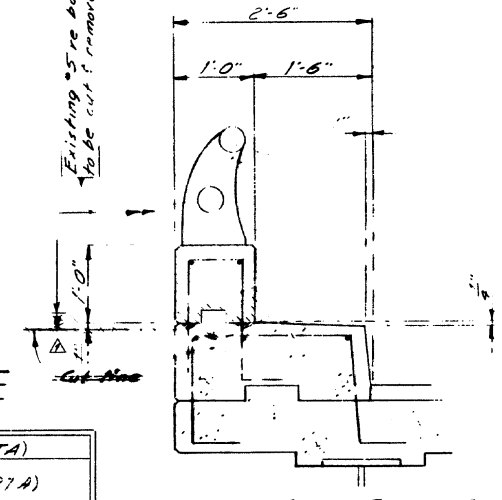
Work this sheet with BD 120.81 Standard Concrete End Post



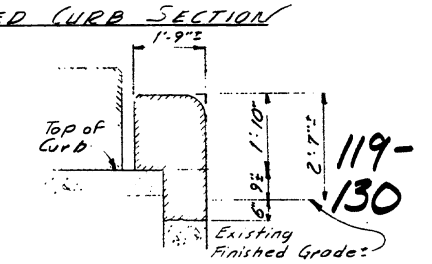
EXISTING DOWNSPOUT DRAIN DETAILS AT PIERS



PROPOSED CURB SECTION



EXISTING CURB SECTION



EXISTING ANCHOR POST-ELEVATION

PROJECT DESIGN ENGINEER	BY	DATE
PLANS		
DESIGN - DETAILED	[illegible]	10-86
CHECKED	[illegible]	2-13-87
REVISIONS		
FIELD CHANGES		

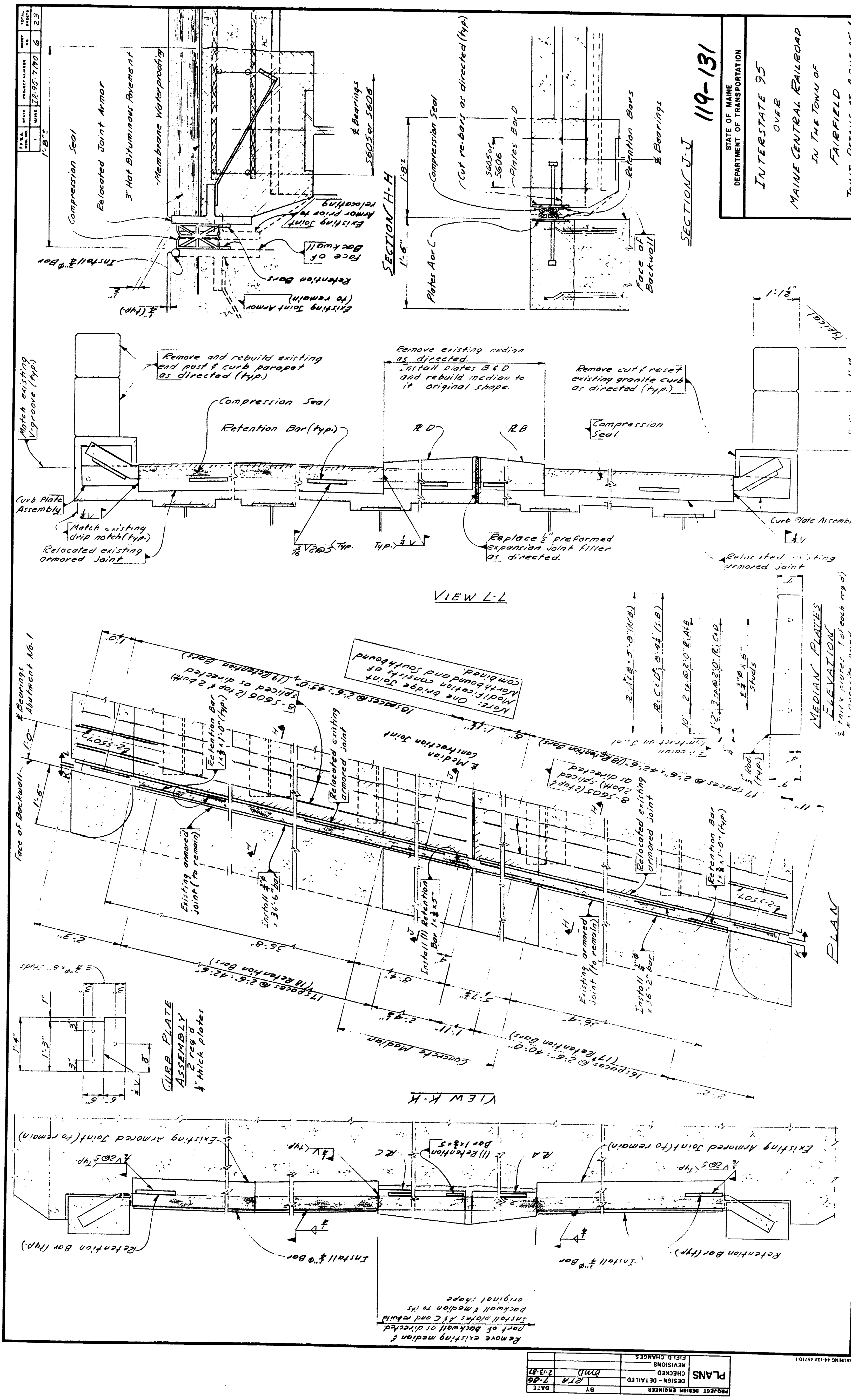
BRUNING 44-132-45710-1

⚠	= Addendum #1 3-13-87 (12TA)
⚠	= Addendum #2 3-23-87 (12TA)

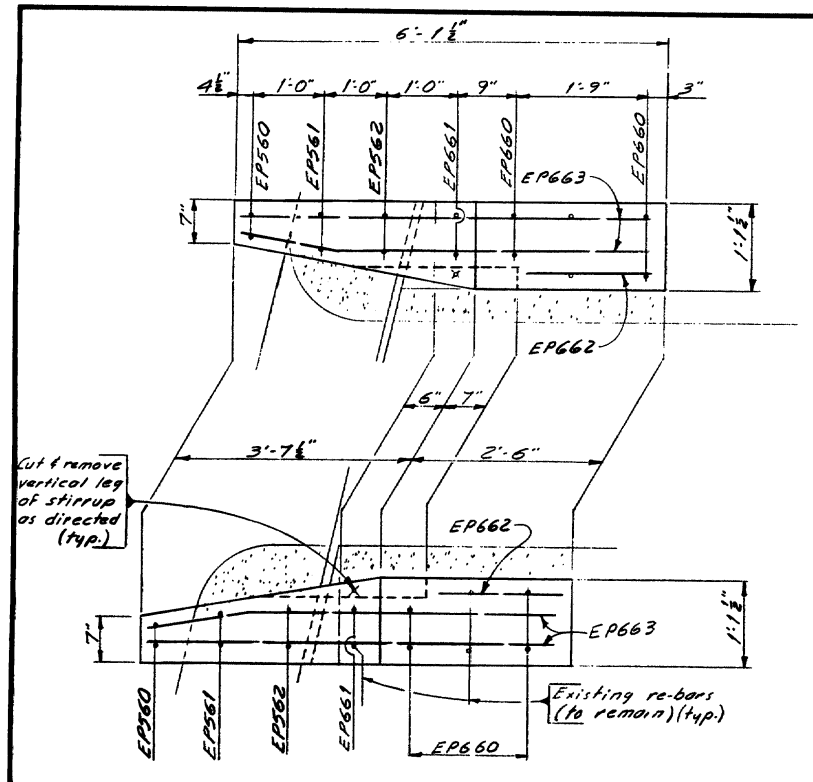
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95
OVER
ROUTE 201
IN THE TOWN OF
FAIRFIELD
RAIL POST SPACING
BRIDGE DRAIN LAYOUT & DETAILS

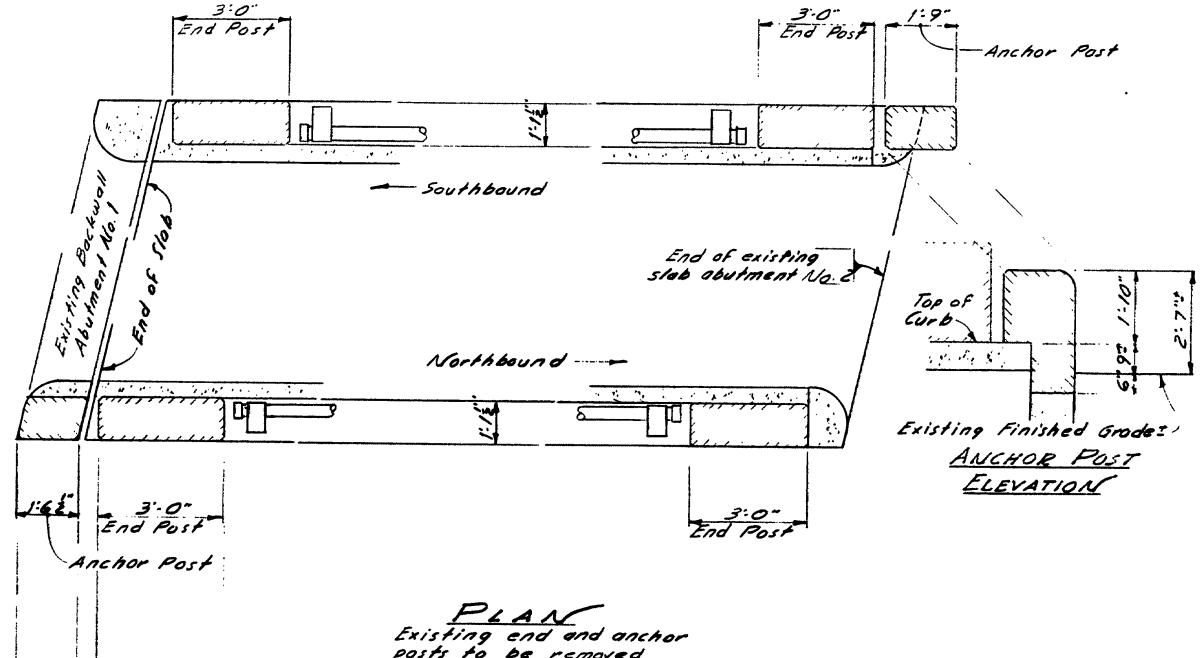
SHEET 5 OF 23 AUGUSTA, MAINE


119-131
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
JOINT DETAILS AT ABUT. NO. 1
SHEET 6 OF 23 AUGUSTA, MAINE
F.H.W.A. REG. NO. 1
STATE MAINE
PROJECT NUMBER IR-95-7(90)
SHEET NO. 6
TOTAL SHEETS 23
SECTION H-H
Compression Seal
Relocated Joint Armor
3" Hot Bituminous Pavement
Membrane Waterproofing
Existing Joint Armor prior to relocating
Face of Backwall
Retention Bars
Existing Joint Armor (to remain)
Install 3/4" ϕ Bar
℄ Bearings S605 or S606
SECTION J-J
Cut re-bars as directed (typ.)
Plates B or D
S605 or S606
Plates A or C
Retention Bars
℄ Bearings
Face of Backwall
VIEW L-L
Remove and rebuild existing end post & curb parapet as directed (typ.)
Match existing V-groove (typ.)
Retention Bar (typ.)
Curb Plate Assembly
Match existing drip notch (typ.)
Relocated existing armored joint
Remove existing median as directed. Install plates B & D and rebuild median to it original shape.
Replace 1/2" preformed expansion joint filler as directed.
Remove cut & reset existing granite curb as directed (typ.)
Relocated existing armored joint
PLAN
Note: One bridge joint modification consists of Northbound and Southbound combined.
Face of Backwall
℄ Bearings Abutment No. 1
8-S606 (2 top & 2 bott) spliced as directed
18 spaces @ 2'-6" = 45'-0" (19 Retention Bars)
Retention Bar 1 x 3/8 x 1'-0" (typ.)
Relocated existing armored joint
Existing armored joint (to remain)
Install 3/4" ϕ x 36'-6" bar
Install (1) Retention Bar 1 x 3/8 x 5"
℄ Median Construction Joint
8-S605 (2 top & 2 bott) spliced as directed
17 spaces @ 2'-6" = 42'-6" (18 Retention Bars)
16 spaces @ 2'-6" = 40'-0" (17 Retention Bars)
Concrete Median
Install 3/4" ϕ x 36'-2" bar
MEDIAN PLATES ELEVATION
1/2" thick plates 1 of each req'd
* = opposite hand
5/8" ϕ x 6" Studs
CURB PLATE ASSEMBLY
2 req'd
1/4" thick plates
VIEW K-K
Existing Armored Joint (to remain)
Install 3/4" ϕ Bar
Retention Bar (typ.)
Remove existing median & part of backwall as directed. Install plates A & C and rebuild backwall & median to its original shape
PLANS
PROJECT DESIGN ENGINEER
DESIGN - DETAILED RTA 7-86
CHECKED DMD 2-13-87
REVISIONS
FIELD CHANGES
BRUNING 44-132 45710-1

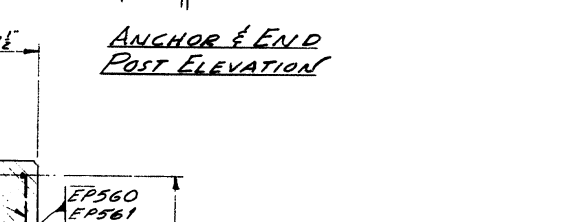
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-95-7(90)	7	23



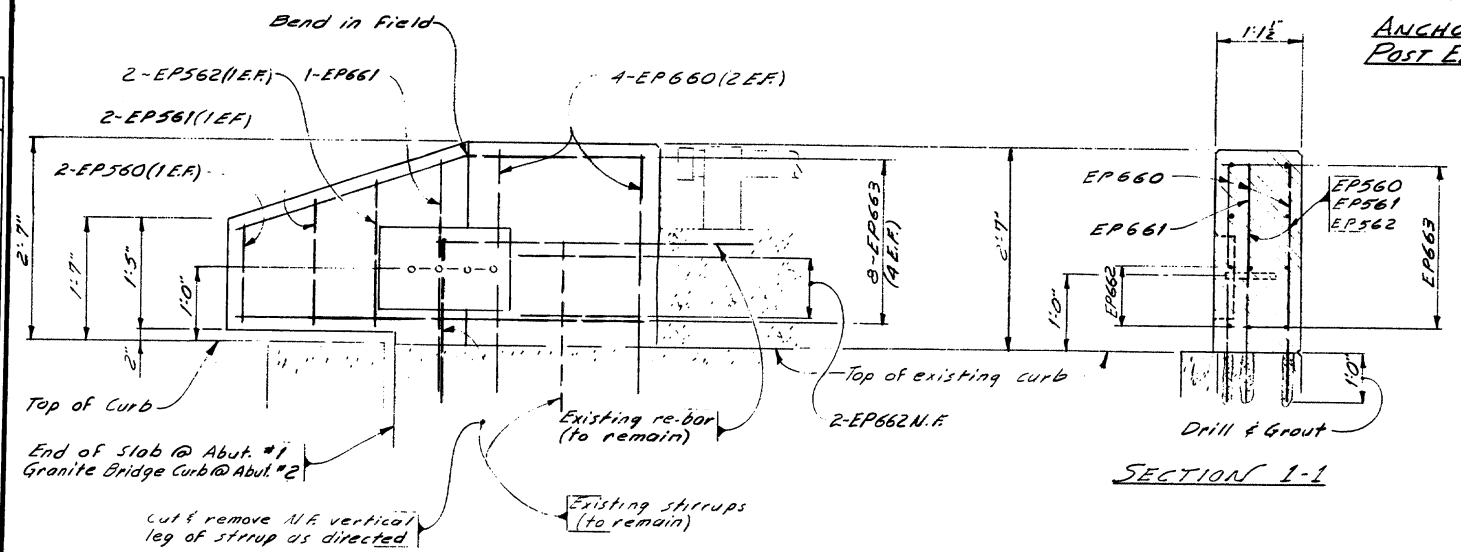
PLAN
Abutment No.1 shown
Abutment No.2 similar



PLAN
Existing end and anchor posts to be removed



ANCHOR & END POST ELEVATION



ELEVATION

SECTION 1-1

PROJECT DESIGN ENGINEER	BY	DATE
PLANS	DESIGN - DETAILED	RJH 1-87
	CHECKED	RJH 2-17-87
	REVISIONS	
	FIELD CHANGES	

BRUNING 44-132 45710-1

119-132

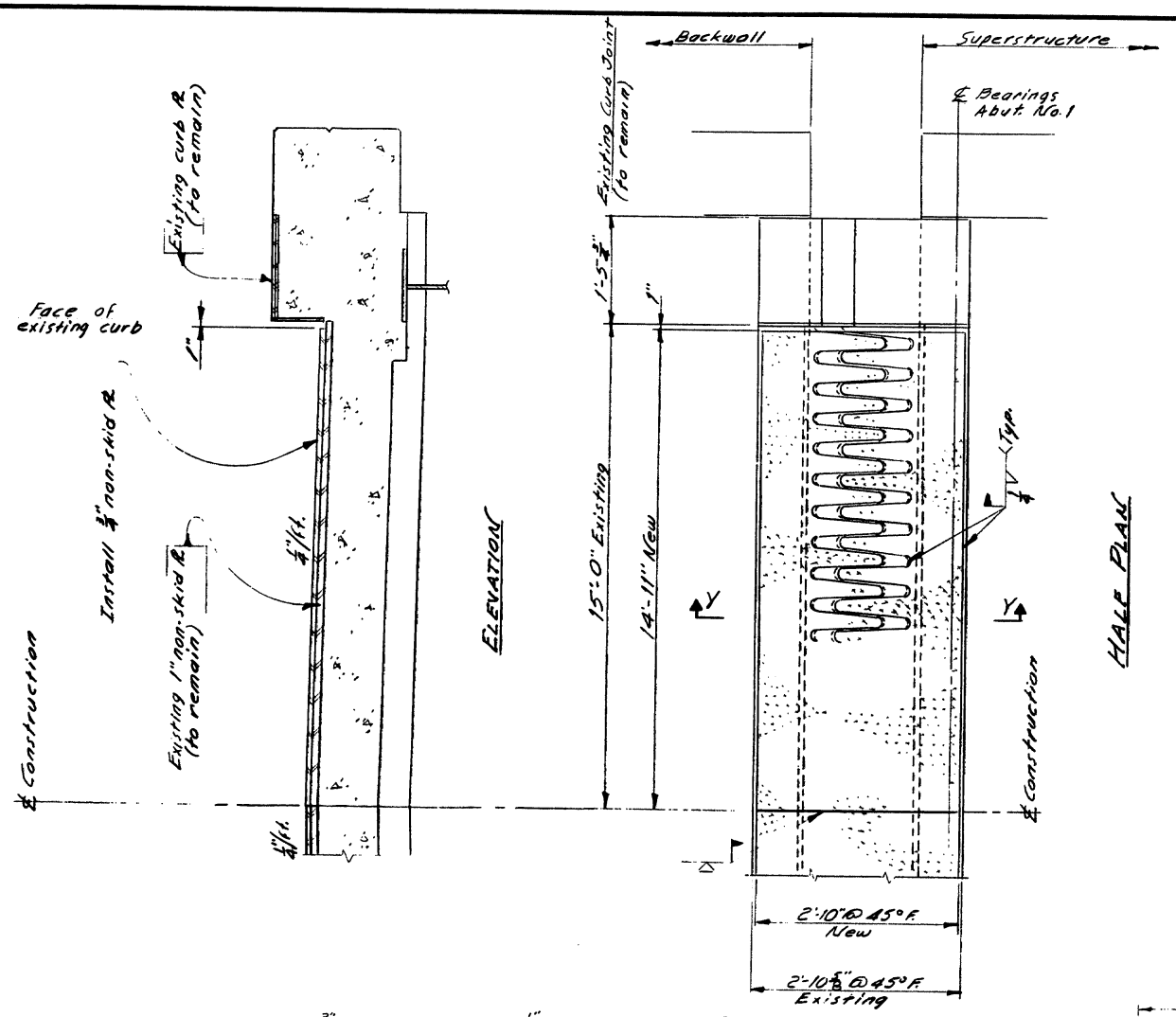
Work this sheet with Standard End Post Sheet BD 120-81

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
END POST DETAILS

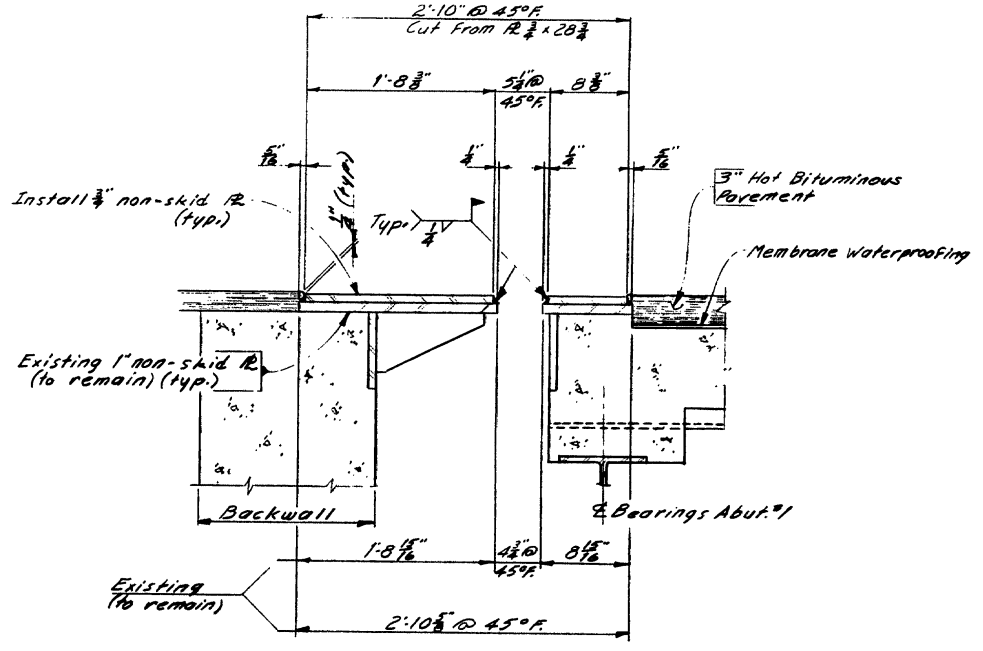
SHEET 7 OF 23 AUGUSTA, MAINE

F.A.H.S. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-95-7(90)	8	23

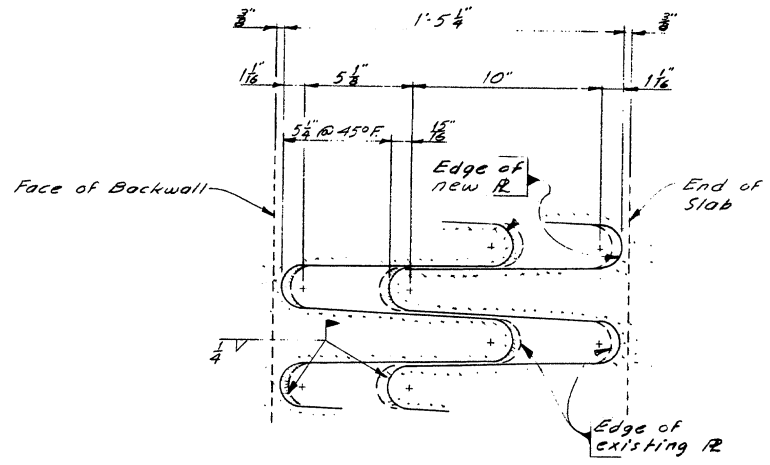


ELEVATION

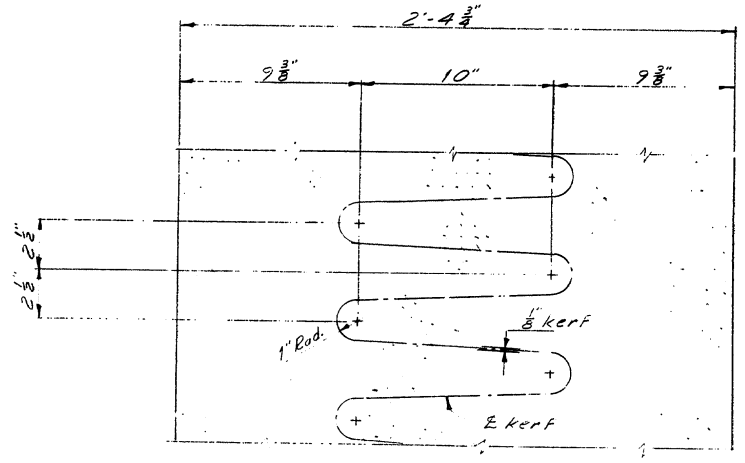
HALF PLAN



SECTION Y-Y



TOOTH DETAIL & LAYOUT



TOOTH CUT LAYOUT
Cut from ¾" non-skid plate

PROJECT DESIGN ENGINEER	BY	DATE
PLANS DESIGN DETAILED	LFA	12-86
CHECKED	KDD	1-13-87
REVISIONS		
FIELD CHANGES		

BRUNING 44-132-45710-1

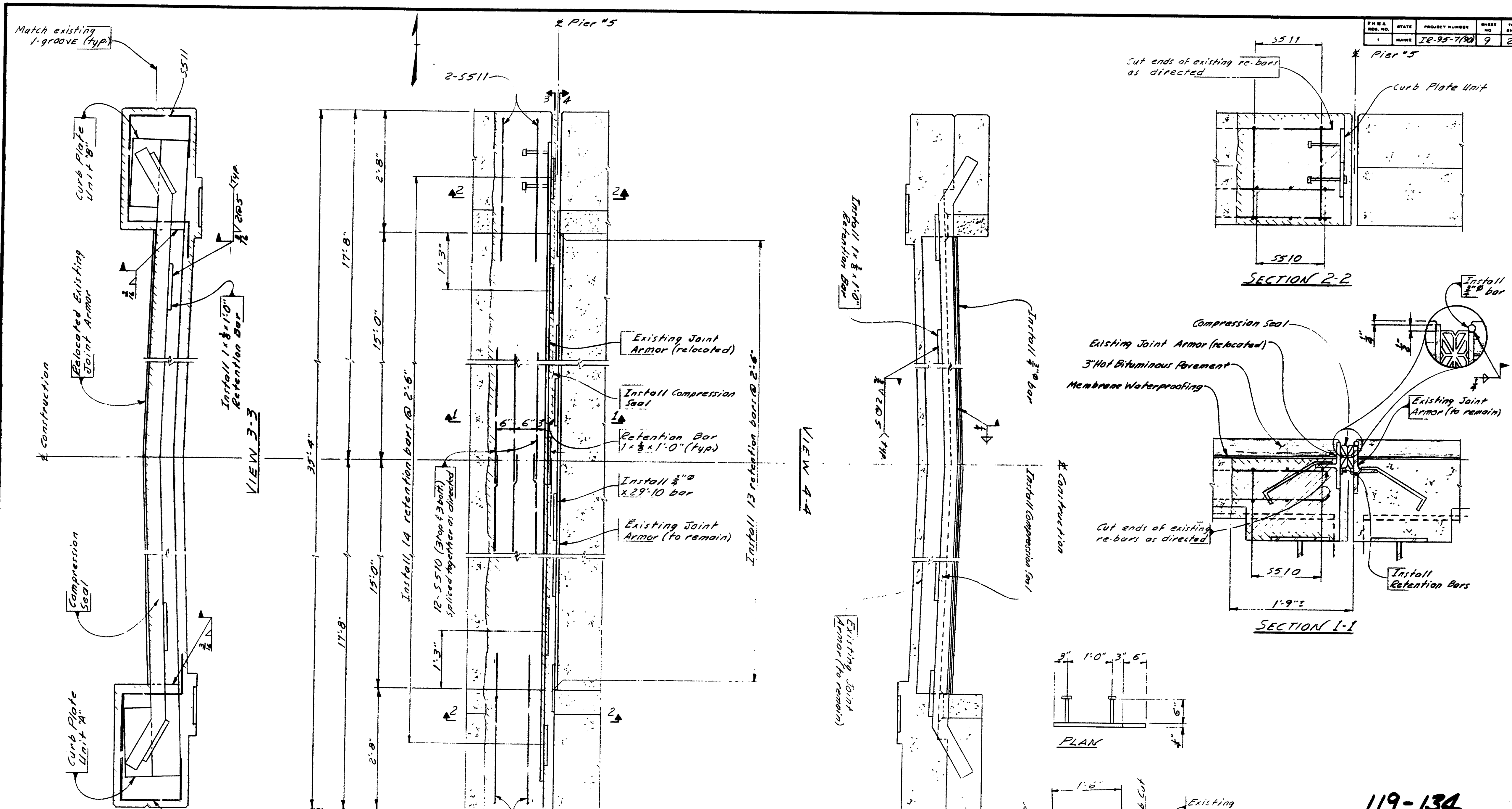
119-133

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD & BENTON
ABUTMENT No. 1 N.B. & S.B.
MODIFIED FINGER JOINTS

SHEET 8 OF 23 AUGUSTA, MAINE

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-7(90)	9	23



119-134

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A CLAUSON MEMORIAL BRIDGES OVER KENNEBEC RIVER IN THE TOWNS OF FAIRFIELD & BENTON

JOINT DETAIL PIER NO. 5

SHEET 9 OF 23 AUGUSTA MAINE

PROJECT DESIGN ENGINEER		BY	DATE
PLANS	DESIGN - DETAILED	R.T.A	11-86
	CHECKED	DMD	2-13-87
	REVISIONS		
	FIELD CHANGES		

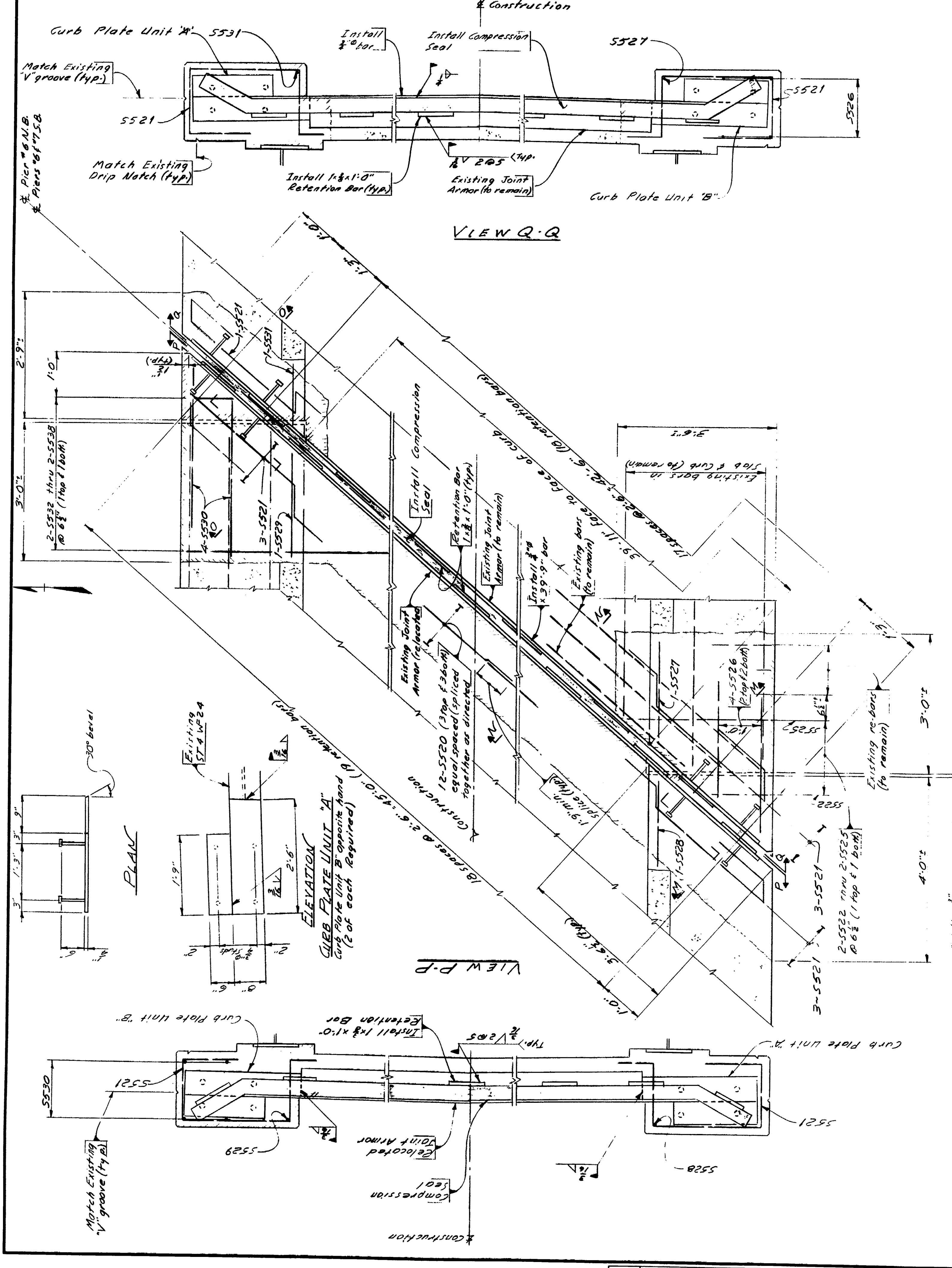
BRUNING 44-132 45710-1

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-95-7(90)	10	23

119-135

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

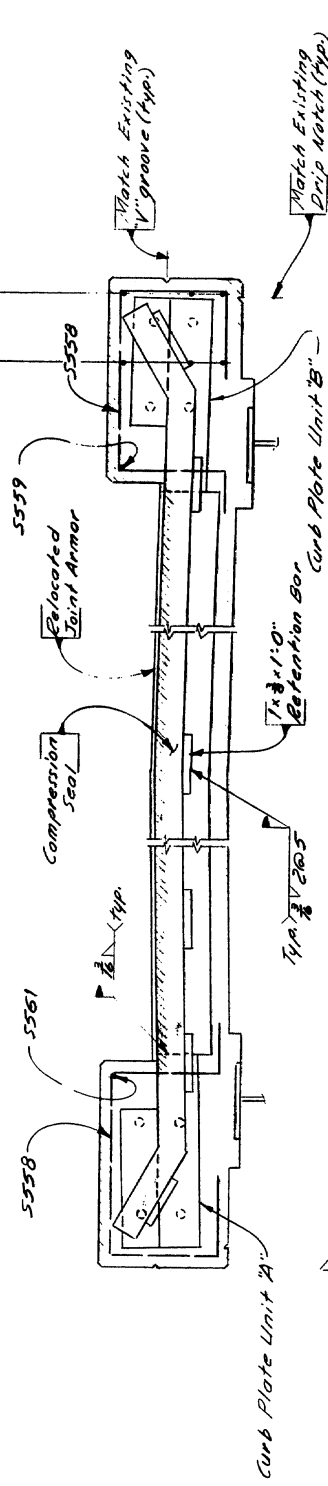
CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD & BENTON
PIER No. 6 N.B.
PIERS No. 6 & No. 7 S.B.
SHEET 10 OF 23 AUGUSTA MAINE



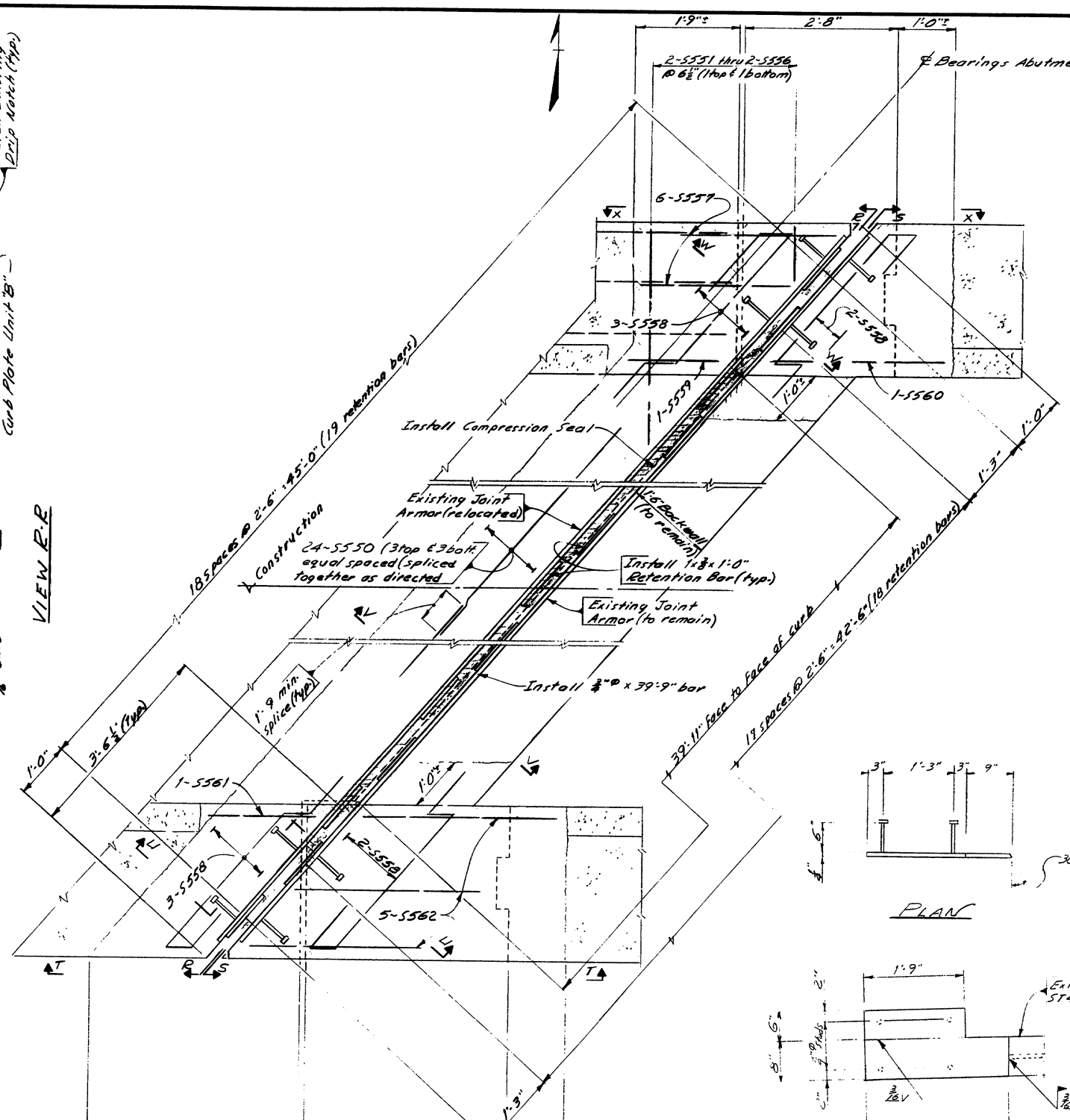
PROJECT DESIGN ENGINEER		BY	DATE
PLANS	DESIGN - DETAILED	R.T.A.	9-86
	CHECKED	DWB	2-13-87
	REVISIONS		
	FIELD CHANGES		

BRUNING 44-132 45710-1

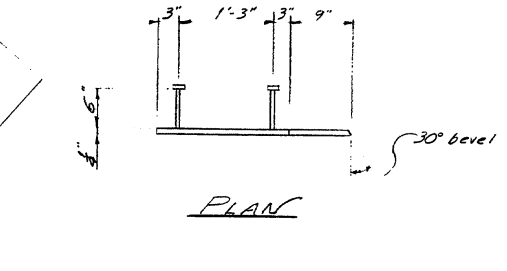
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	12-95-7(90)	11	23



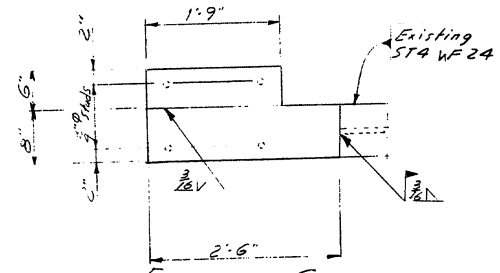
VIEW E-E



PLAN



PLAN

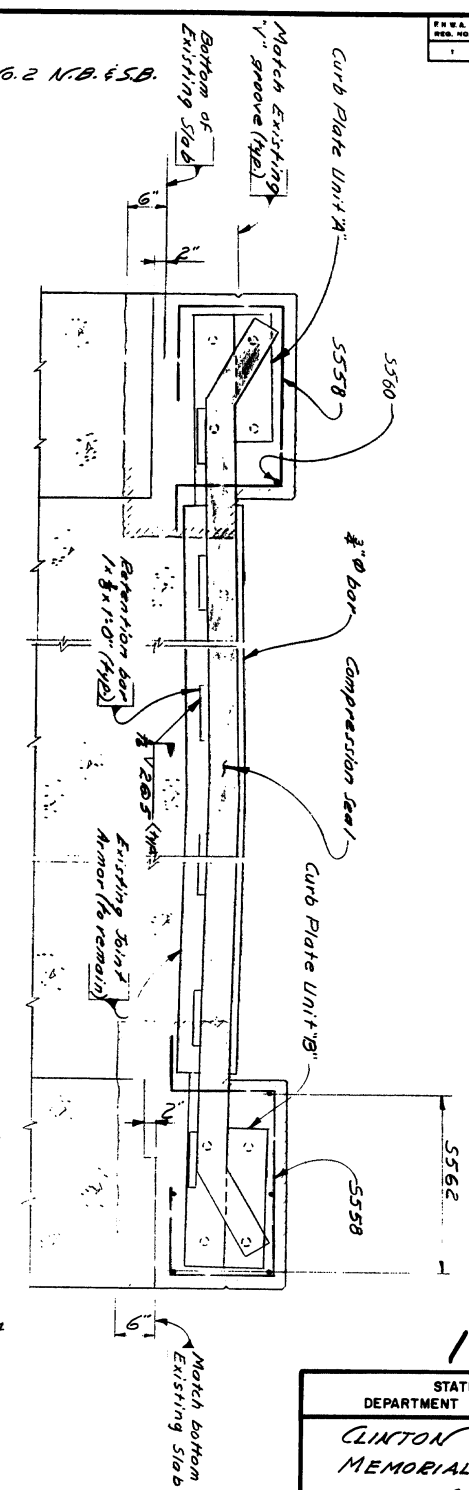


ELEVATION

CURB PLATE UNIT "A"

Curb Plate Unit "B" opposit hand (2 of each required)

VIEW S-S



119-136

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A CLAUSON MEMORIAL BRIDGES OVER KENNEBEC RIVER IN THE TOWNS OF FAIRFIELD & BENTON

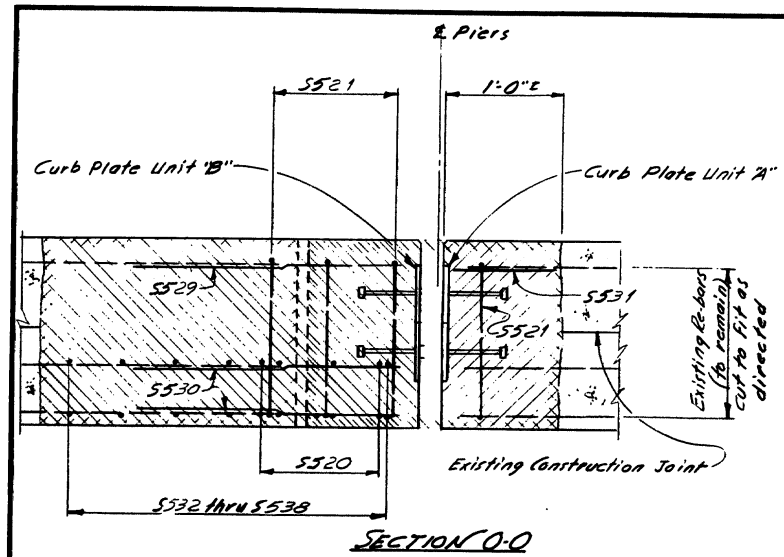
ABUTMENT No. 2 N.B. & S.B.

SHEET 11 OF 23 AUGUSTA, MAINE

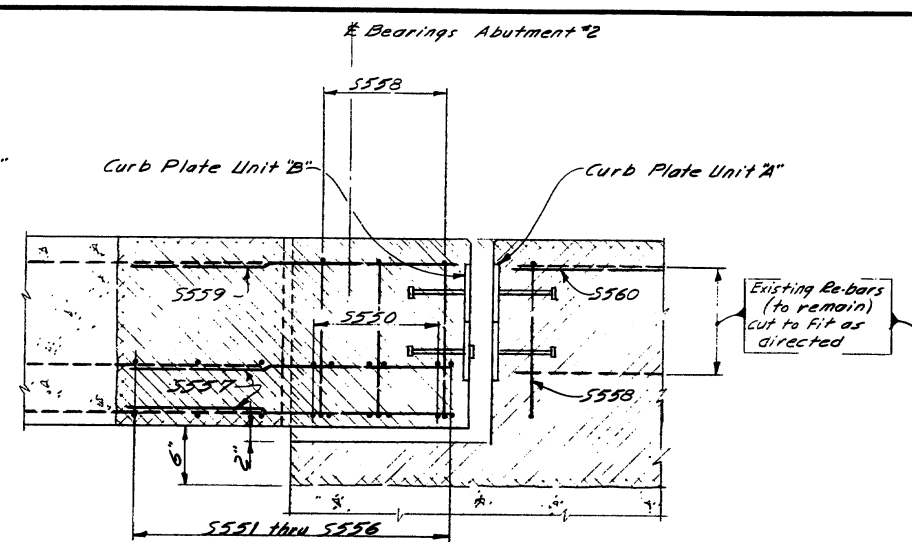
PROJECT DESIGN ENGINEER		BY	DATE
PLANS	DESIGN - DETAILED	R.F.A.	2-96
	CHECKED	DMD	2-13-96
	REVISIONS		
	FIELD CHANGES		

BRUNING 44-132-4970-1

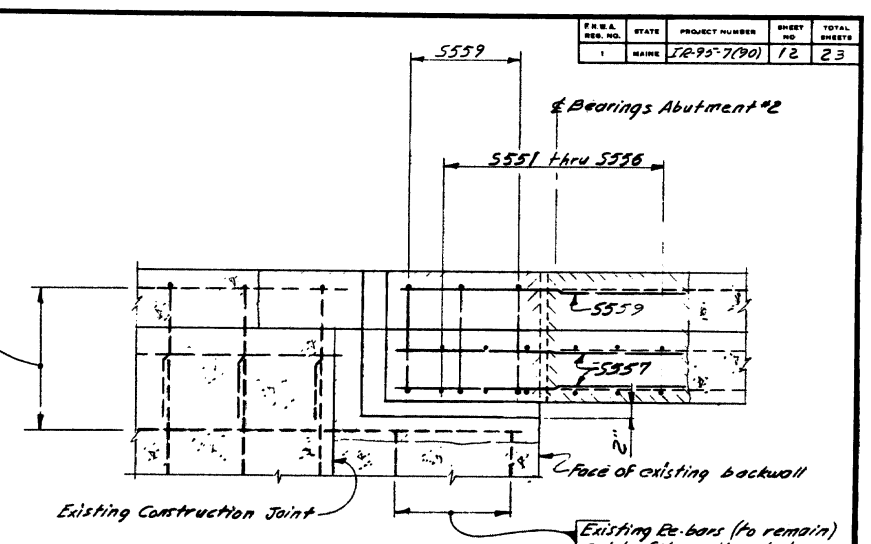
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-7(190)	12	23



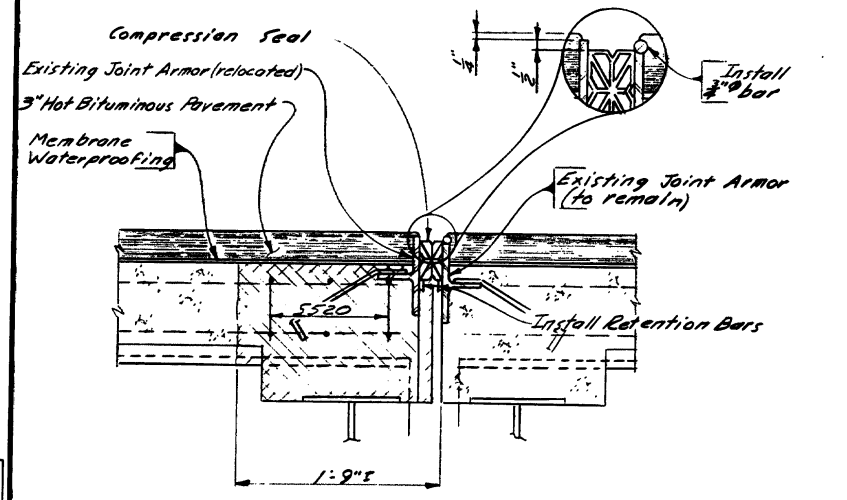
SECTION O-O



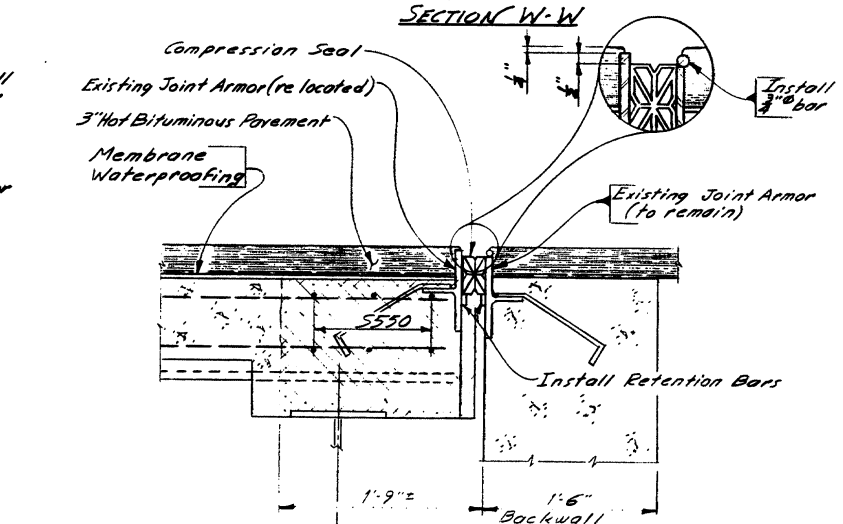
SECTION W-W



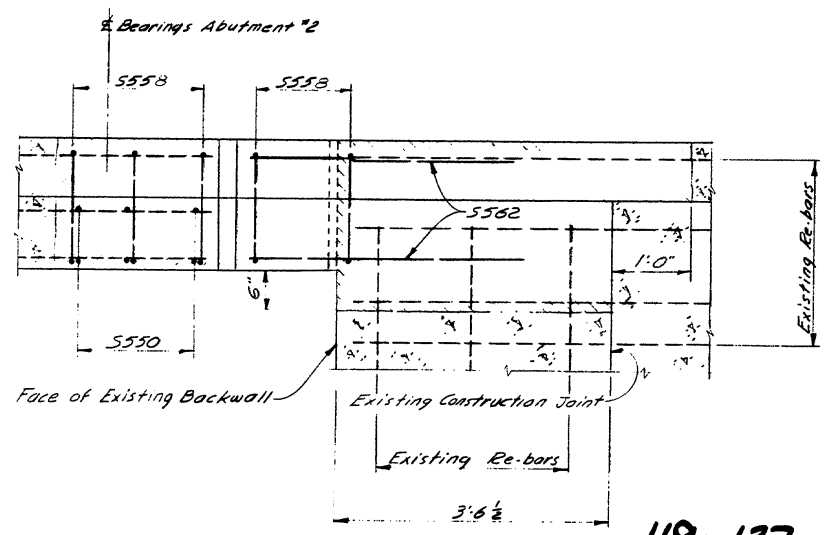
VIEW X-X



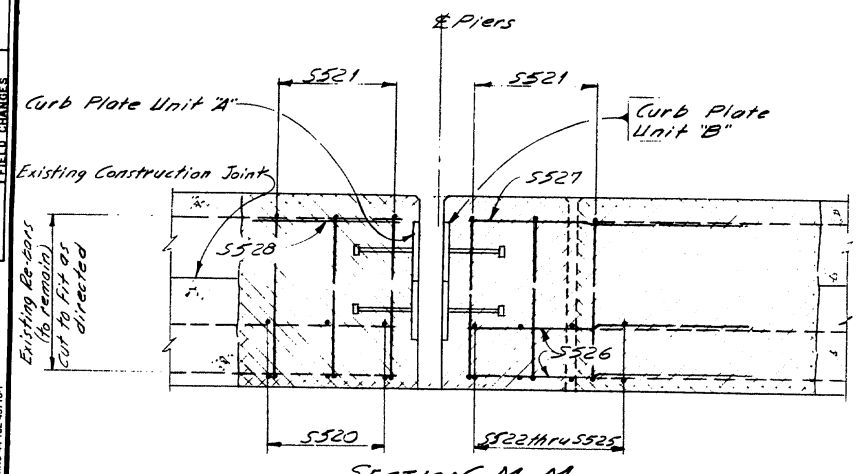
SECTION N-N



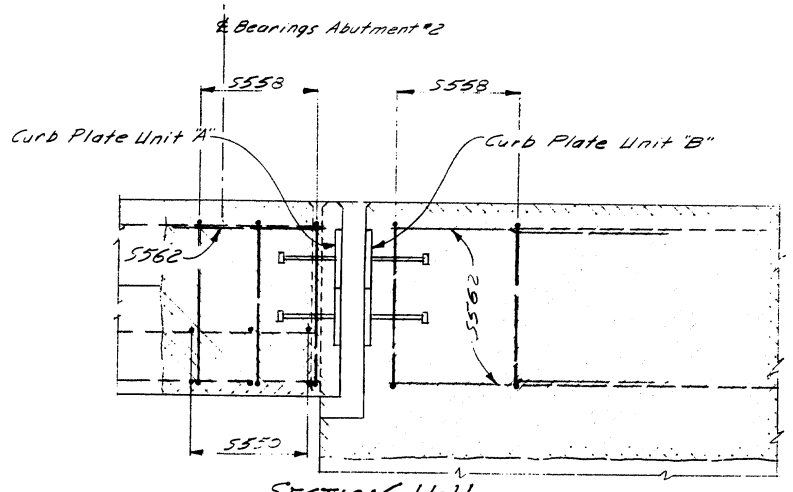
SECTION V-V



VIEW T-T



SECTION M-M



SECTION U-U

PROJECT DESIGN ENGINEER	BY	DATE
PLANS	R.F.A.	9-86
DESIGN - DETAILED	DMO	2-87
CHECKED		
REVISIONS		
FIELD CHANGES		

BRUNING 44-132 45710-1

119-137

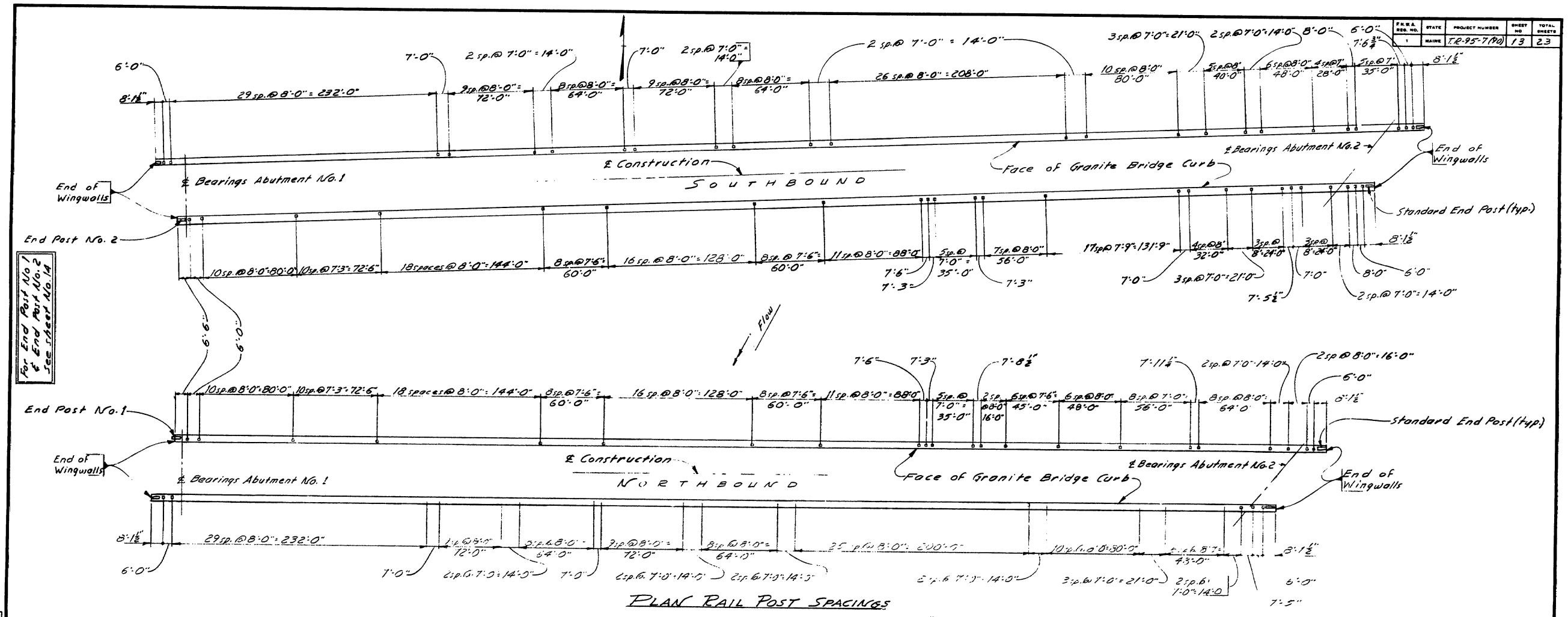
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A CLAUSON MEMORIAL BRIDGES OVER KENNEBEC RIVER IN THE TOWNS OF FAIRFIELD & BENTON

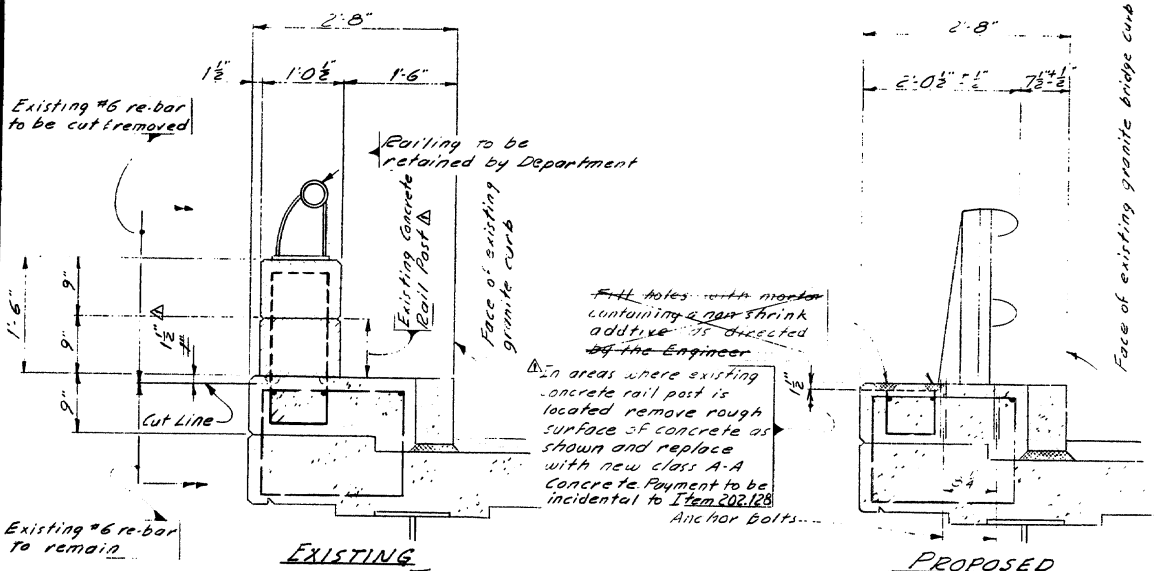
JOINT SECTIONS

SHEET 12 OF 23 AUGUSTA, MAINE

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-7(80)	13	23

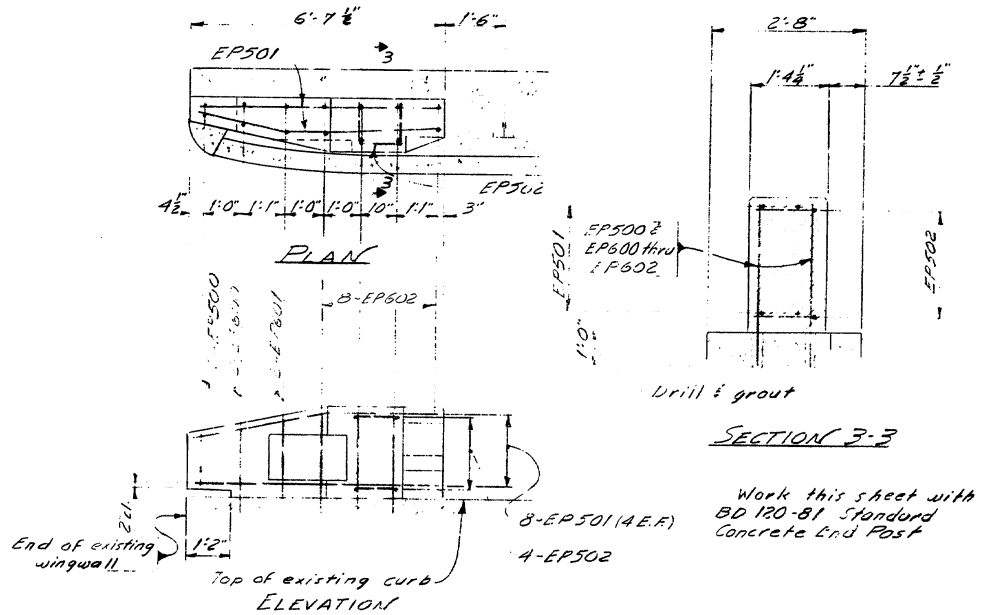


PLAN RAIL POST SPACINGS



EXISTING PROPOSED

TYPICAL CURB SECTIONS



PLAN

ELEVATION

END POST DETAIL

SECTION 3-3

Work this sheet with BD 120-81 Standard Concrete End Post

PROJECT DESIGN REMINDER	BY	DATE
PLANS	DESIGNED RTA	7-86
	DETAILED DMD	2-1987
	CHECKED	
	REVISIONS	
	FIELD CHANGES	

⚠ = Addendum #1 3-13-87 (RTA)

119-138

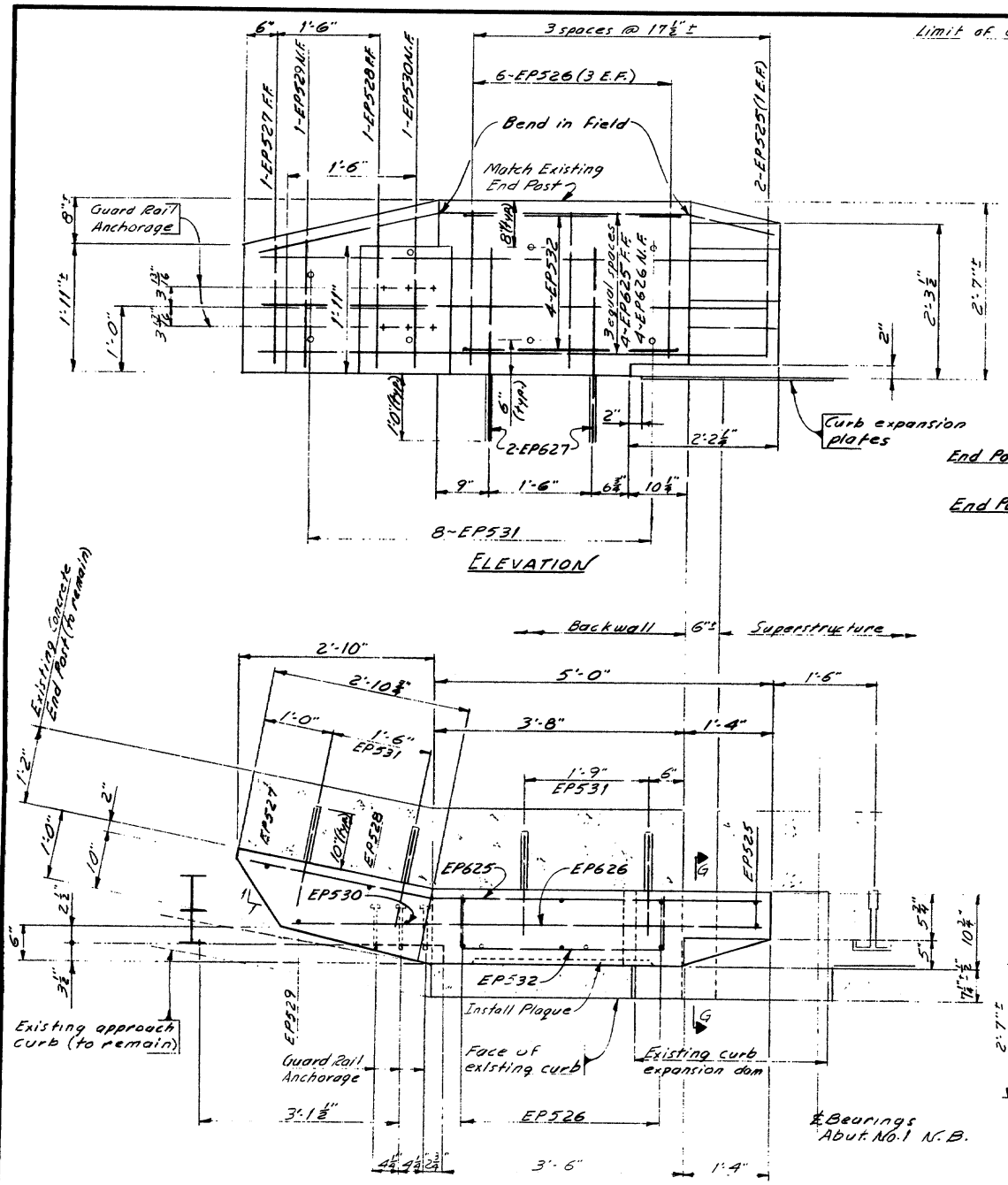
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A. CLAUSON MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD AND BENTON
RAIL POST SPACINGS

SHEET 13 OF 23 AUGUSTA, MAINE

DRUNING 44-132 45710-1

F.A.P. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	IR-95-7(90)	14	23



119-139

PROJECT DESIGN ENGINEER	BY	DATE
DESIGN DETAILED	I.P.D.	4-90
CHECKED	D.H.D.	4-90
REVISIONS		
FIELD CHANGES		

PLANS

BRUNING 44-132-4570-1

Work this sheet with Standard Details BD 120-81 Concrete End Posts

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

CLINTON A. CLAUSON MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD & BENTON
END POSTS No. 1 & No. 2

SHEET 14 OF 23 AUGUSTA, MAINE

REINFORCING STEEL SCHEDULE

STRAIGHT BARS

MARK	NO.	LENGTH	LOCATION
I-95 OVER RTE 201			
S600	48	20'-0"	12 @ ea. joint
I-95 over M.C.RR			
S605	8	23'-0"	Abut. #1 N.B.
S606	8	24'-6"	Abut. #1 S.B.
END POST			
EP560	8	1'-3"	Vertical
EP561	8	1'-6"	Vertical
EP562	8	1'-10"	Vertical
EP660	16	3'-4"	Vertical
EP661	4	3'-0"	Vertical
EP662	8	1'-7"	Horizontal
EP663	32	5'-9"	Horizontal

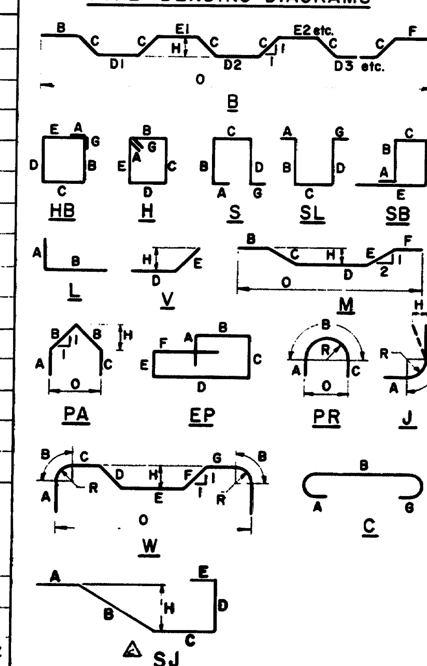
MARK	NO.	LENGTH	LOCATION
CLINTON A. CLAUSON			
PIER #5			
S510	24	18'-6"	12 N.B. & 12 S.B.
PIERS #6 N.B. & S.B. & PIER #7 S.B.			
S520	36	24'-2	12 @ ea. joint
S522	6	1'-3"	2 @ ea. joint
S523	↓	2'-0"	↓
S524		2'-6"	
S525	6	3'-0"	2 @ ea. joint
S526	12	3'-0"	4 @ ea. joint
S527	3	2'-2"	1 @ ea. joint
S528	3	1'-9"	1 @ ea. joint
S529	3	2'-3"	1 @ ea. joint
S530	12	3'-4"	4 @ ea. joint
S531	3	1'-3"	1 @ ea. joint
S532	6	4'-6"	2 @ ea. joint
S533	↓	4'-0"	↓
S534		3'-4"	
S535		2'-10"	
S536		2'-2"	
S537		1'-7"	
S538	6	1'-0"	2 @ ea. joint
ABUTMENT No. 2			
S550	24	24'-2	12 N.B. & 12 S.B.
S551	4	3'-8"	2 N.B. & 2 S.B.
S552	↓	3'-3"	↓
S553		2'-8"	
S554		2'-0"	
S555		1'-6"	
S556	4	1'-0"	2 N.B. & 2 S.B.
S557	12	2'-7	6 N.B. & 6 S.B.
S559	2	1'-8"	1 N.B. & 1 S.B.
S560	2	3'-0"	1 N.B. & 1 S.B.
S561	2	1'-8"	1 N.B. & 1 S.B.
S562	10	3'-4	5 N.B. & 5 S.B.

MARK	NO.	LENGTH	LOCATION
STANDARD END POST			
EP500	2	1'-2"	@ C.C.
EP501	80	6'-3"	32 @ 201; 48 @ C.C.
EP600	20	2'-7"	8 @ 201; 12 @ C.C.
EP601	20	2'-10"	8 @ 201; 12 @ C.C.
EP602	80	3'-0"	32 @ 201; 48 @ C.C.
EP603	8	2'-5"	@ 201
			201: @ Rte. 201 Bridge C.C.: @ Clinton A. Clauson Memorial Bridges
CLINTON A. CLAUSON END POST No. 1			
EP525	2	1'-9"	Vertical
EP526	6	2'-4"	↓
EP527	1	1'-8"	
EP528	↓	2'-2"	
EP529		1'-9"	
EP530	1	2'-4"	Vertical
EP531	8	1'-6"	Dowel
EP625	4	7'-6"	Horizontal
EP626	4	6'-10"	Horizontal
EP627	2	2'-10"	Vertical (Dowels)
END POST No. 2			
EP550	6	1'-9"	Vertical
EP551	2	1'-9"	Vertical
EP552	4	1'-4"	Vertical
EP750	4	2'-6"	Dowels

BENT BARS

MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
I-95 OVER RTE. 201														
S500	8	7'-0"	5	1'-0"	1'-4"	2'-4"	1'-4"	—	—	1'-0"	—	—	—	2 @ ea. Curb
I-95 OVER M.C.RR														
S507	4	5'-7"	5	1'-0"	1'-2"	1'-3"	1'-2"			1'-0"	—			2 N.B. Curb 2 S.B. Curb
CLINTON A. CLAUSON PIER #5														
S511	8	7'-0"	5	1'-0"	1'-4"	2'-4"	1'-4"	—	—	1'-0"	—	—	—	4 N.B. & 4 S.B.
PIERS #6 & #7 S.B.; PIER #6 N.B.														
S521	30	7'-9"	5	1'-0"	1'-4"	3'-1"	1'-4"		—	1'-0"	—	—	—	10 Pier #6 N.B. 10 Pier #6 S.B. 10 Pier #7 S.B.
ABUTMENT No. 2														
S558	20	7'-9"	5	1'-0"	1'-4"	3'-1"	1'-4"	—	—	1'-0"	—	—	—	10 N.B. & 10 S.B.
STANDARD END POST														
EP502	40	3'-0"	5	0	1'-0"	1'-0"	1'-0"	—	—	0	—	—	—	16 @ 201; 24 @ C.C.
END POST No 1														
EP532	4	4'-2	5	0	6	3'-2	6			0				Horizontal
END POST No 2														
EP650	4	7'-9"	EP	0	0	0	4'-8"	7"	2'-6"					Horizontal
EP651	4	3'-4"	✓	—			2'-10"	6"			2"			Horizontal

TYPE-BENDING DIAGRAMS



All dimensions are out to out of reinf. bar
Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 318. △
Reinforcing Bar: ASTM A615 Grade 60

GENERAL NOTES

1. First digit(s) following the letter of the Mark indicates size of reinf. bar.
   - Mark (A502) bar size - #5
   - Mark (P1001) bar size - #10
   - Mark (S603) bar size - #6
2. Each truss bar, Type B, may be replaced by two (2) straight bars (one top & one bottom) of the same bar size as the truss bar. Payment in either case shall be based on truss bars as scheduled on plans.

119-140

	REVISIONS	DATE
△	[illegible]	9-[illegible]
△	Revised ACI Standard	5-12-83

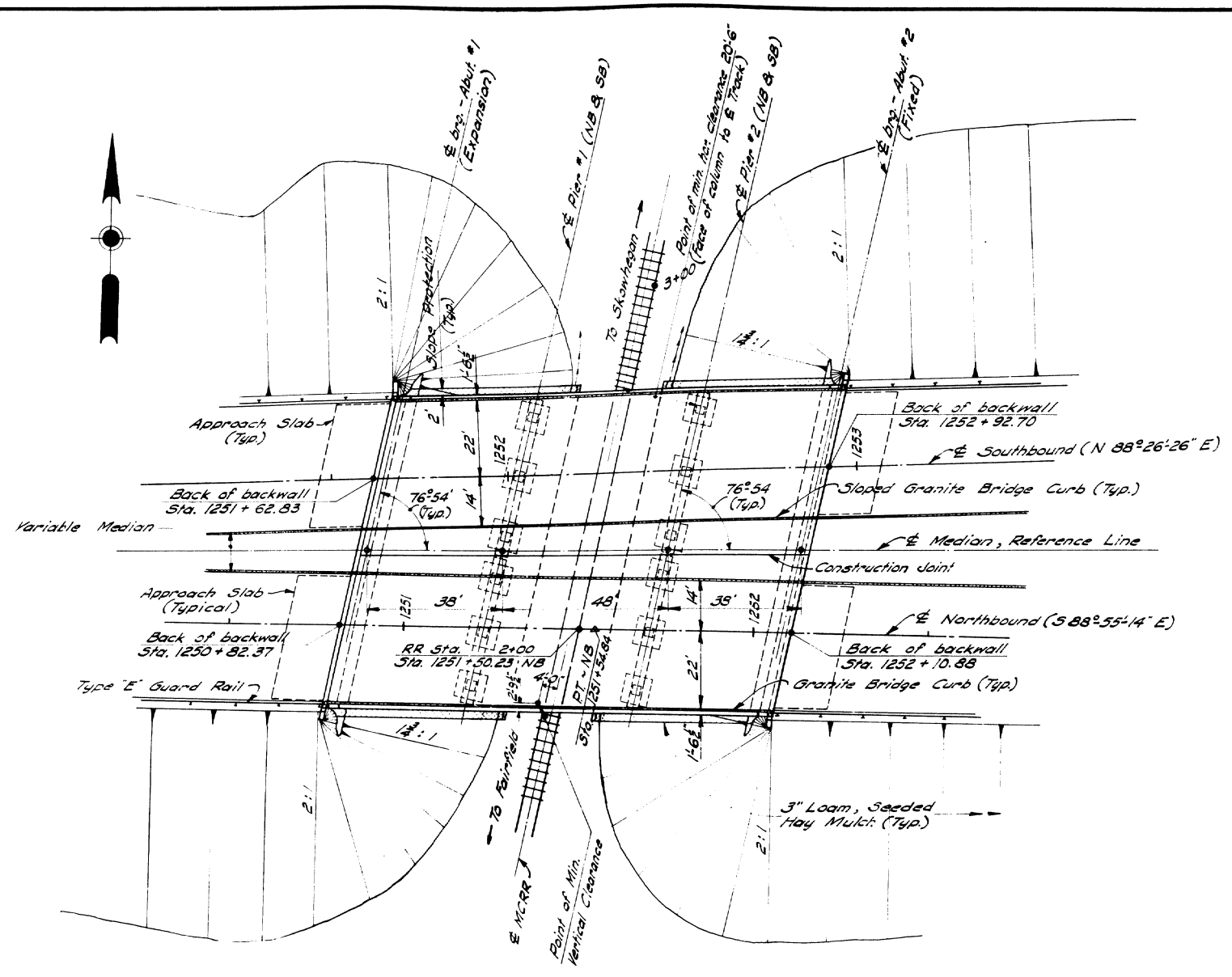
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

I-95 OVER RTE. 201
CLINTON A. CLAUSON
MEMORIAL BRIDGES
IN THE TOWN OF
FAIRFIELD & BENTON
REINFORCING STEEL SCHEDULE

FHWA REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-95-7(90)	15	23

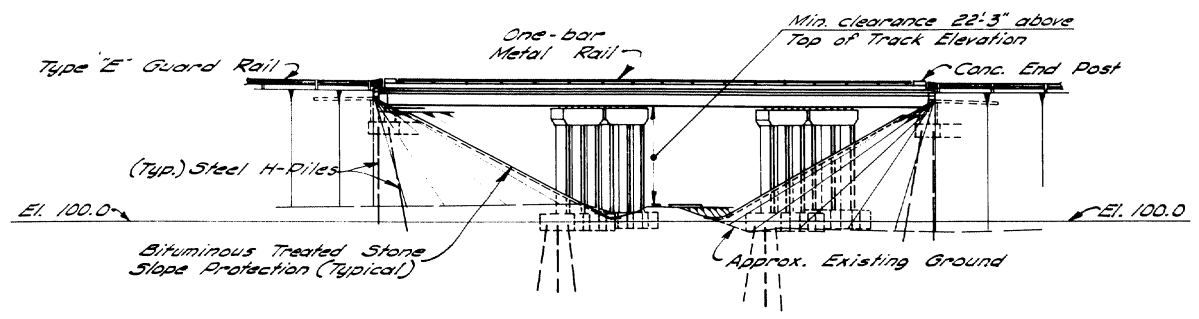
PLANS		BY	DATE
	DESIGN - DETAIL	RTR	12-86
	CHECKED	DMD	2-13-87
	REVISIONS		
	FIELD CHANGES		

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(26)	61	92



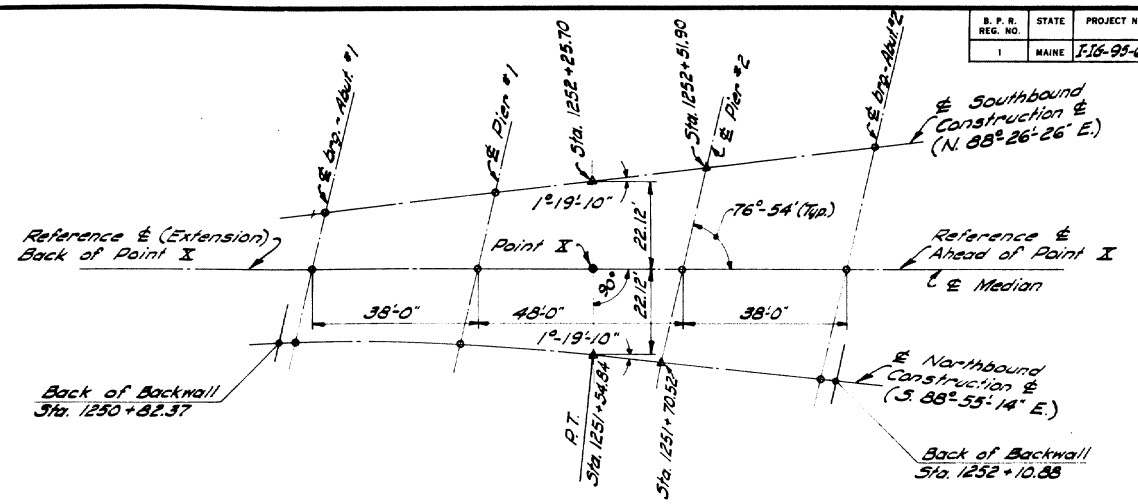
GENERAL PLAN

Scale: 1" = 20'



ELEVATION

Scale: Hor. & Vert. - 1" = 20'



LAYOUT

For Maine Central Railroad Overpass Structure

SPECIFICATIONS

DESIGN - AASHO Standard Specifications for Highway Bridges 1961 with Interim Specifications.

CONTRACT - State of Maine, State Highway Commission, Standard Specifications for Highways and Bridges, Revision of January 1956, and Supplemental Specifications.

LIVE LOADING

H20-S16-44 as modified for Interstate

ALLOWABLE STRESSES

Struct. Steel, ASTM Desig. A36 - f_s = 20,000 psi.
" " " " A7 - f_s = 18,000 psi.
Reinf. Steel, Int Grade - f_s = 20,000 psi.
Concrete (n=10) - f_c = 1200 psi.

CONCRETE CLASSIFICATION

All concrete to be Class "A"

DESIGN - LE
TRACE - G.M.C.
CHECK - N.W.T.
BRIDGE NO.
SURVEY -
PLOT - G.M.C.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY

GENERAL PLAN ELEVATION AND LAYOUT

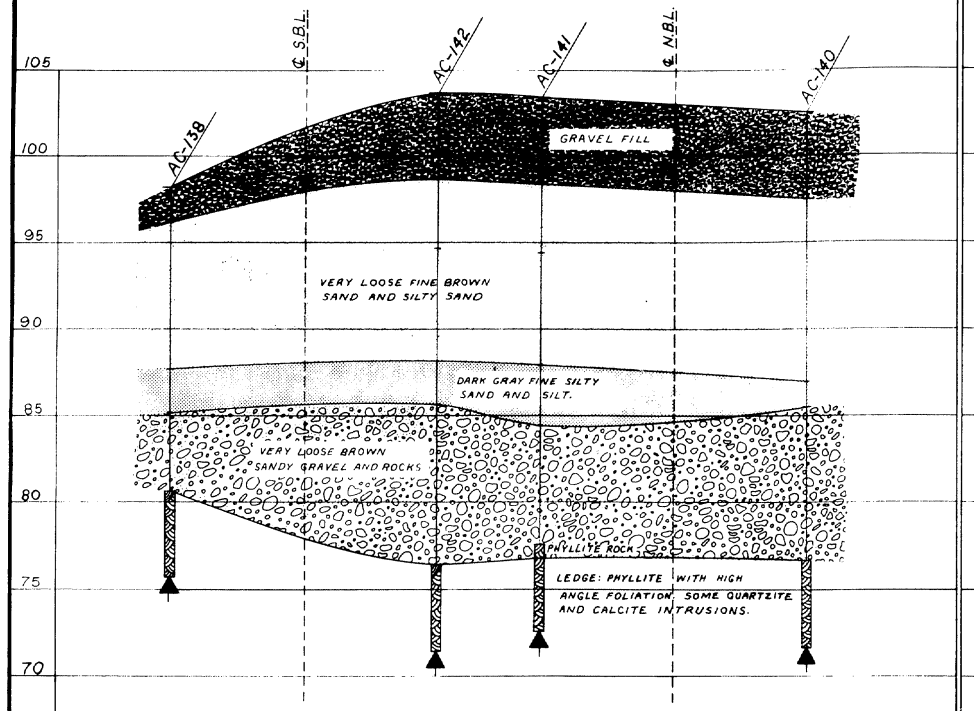
SHEET 61 OF 92 AUGUSTA, MAINE Nov. 1962

C. H. CO. NO 3788 10-62

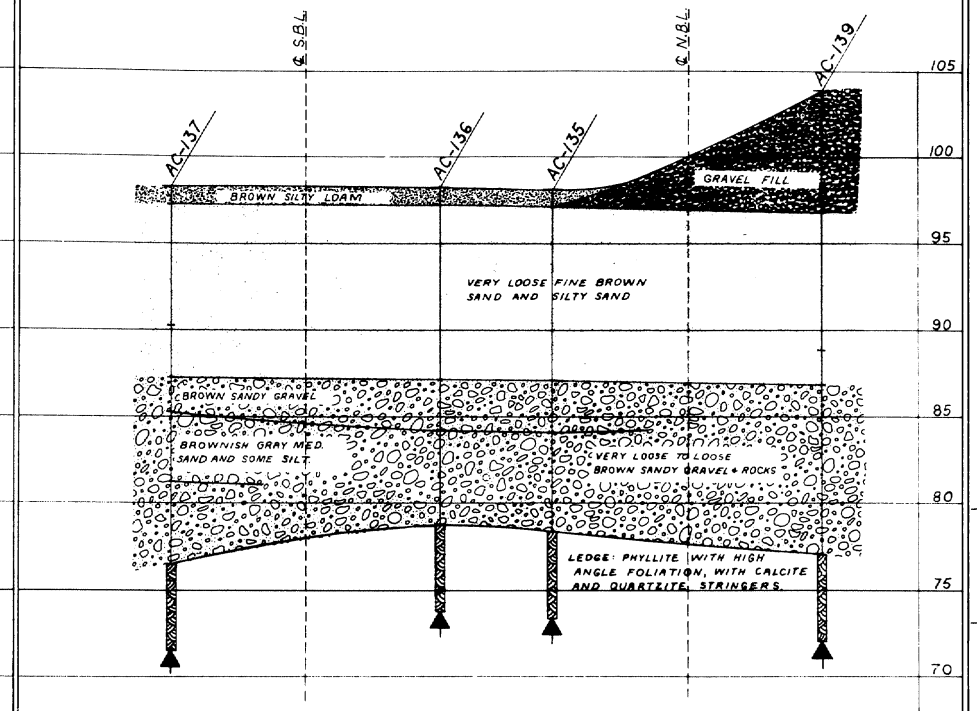
TRANSVERSE SECTIONS

HORIZONTAL SCALE 1"=10'

℄ BEARINGS ABUT. 1



℄ PIER 1



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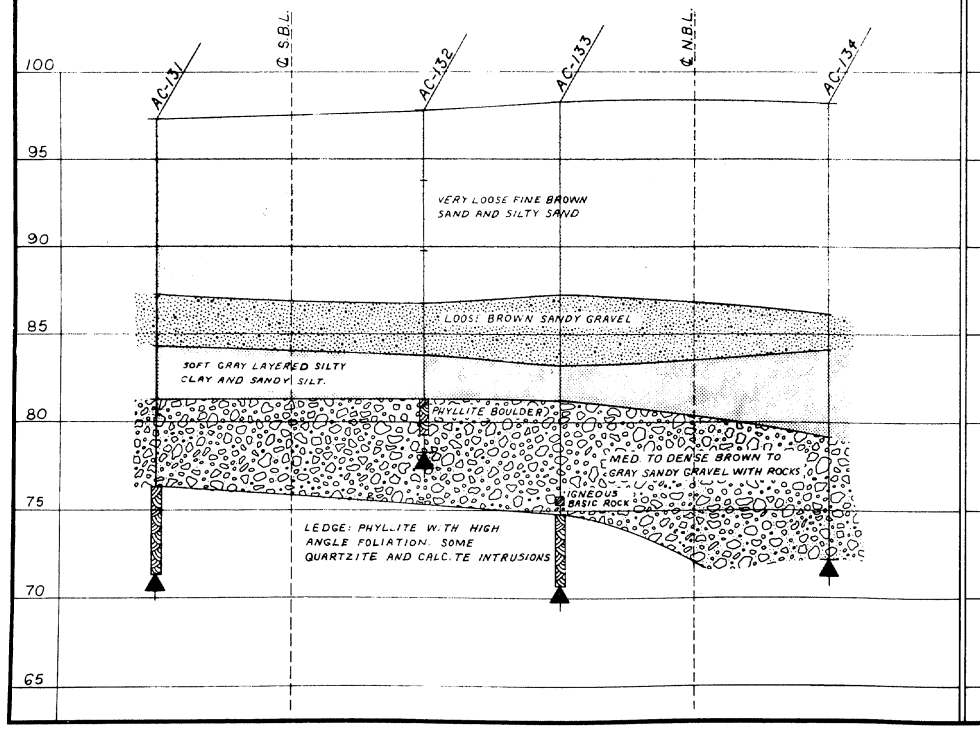

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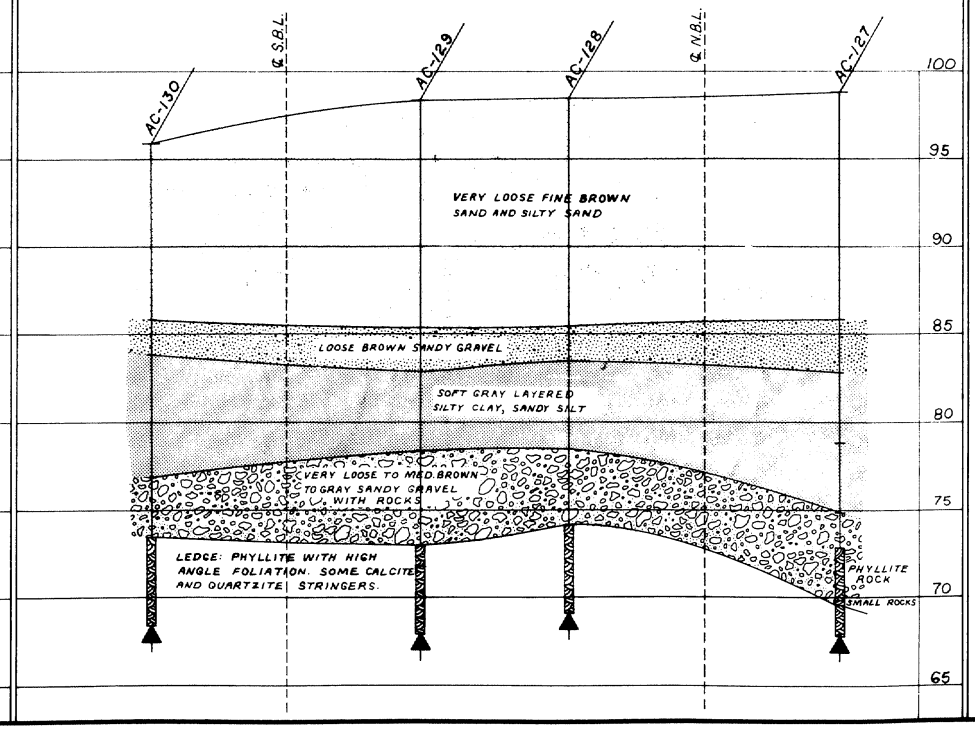
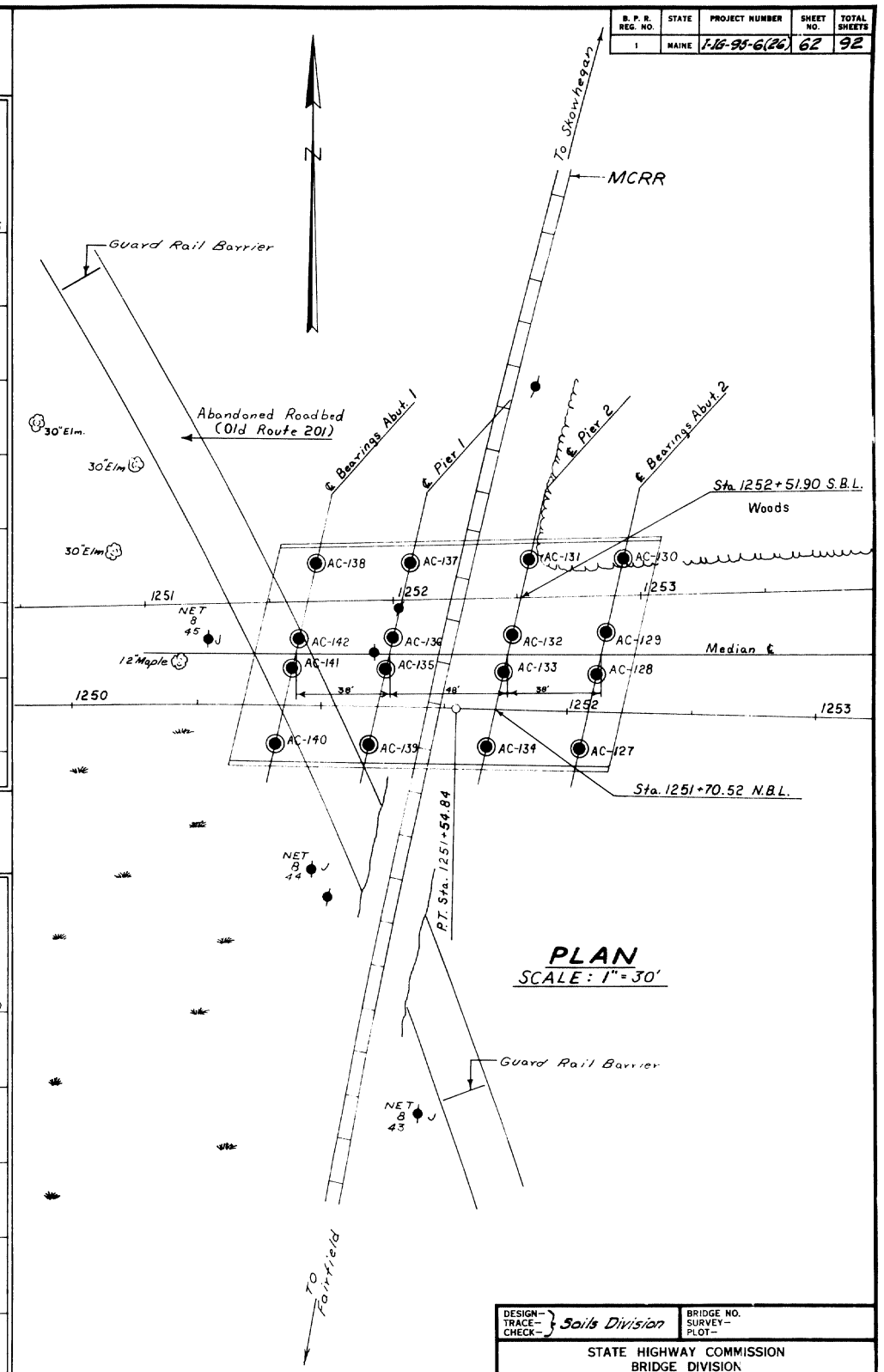




PLAN

SCALE: 1"=30'

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(26)	62	92

DESIGN– TRACE– CHECK– } Soils Division

BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
FOUNDATION SURVEY

SHEET 62 OF 92 AUGUSTA, MAINE July 1962

[redacted]

C. H. CO., NO 3788 55787

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-15-95-6(26)	63	92

DRIVING RESISTANCE

BLOWS / FOOT

℄ BEARINGS ABUT. 1

ELEVATION

BORING AC-138

STA. 1251+69.4 15' LT. S.B.L.

EL. 98.21 — 20 — 40 — 60

- GRAVEL FILL
- 1D — LOOSE TO VERY LOOSE FINE BROWN SAND BECOMING SILTY AND GRAY MOTTLED CHANGING TO DARK GRAY WITH DEPTH.
- 2D — VERY LOOSE GRAY SILTY SAND
- 3D — BROWN SILTY SAND GRAVEL AND ROCKS
- 68% LEDGE QUARTZITIC PHYLLITE, HIGH ANGLE FOLIATION, CALCITE AND QUARTZ STRINGERS.

BORING AC-142

STA. 1251+62.4 15' RT. S.B.L.

EL. 103.64 — 20 — 40 — 60 — 288 — 200

- LOOSE GRAVEL FILL
- 1D — LOOSE BROWN SANDY SILT
- MD — LOOSE TO VERY LOOSE BROWNISH GRAY SILT, VERY FINE SAND.
- 2D — VERY LOOSE DARK GRAY SILT
- 3D — LOOSE FINE TO MEDIUM BROWN SAND WITH PEBBLES.
- MD — 153
- 73% LEDGE: PHYLLITE WITH HIGH ANGLE FOLIATION, QUARTZ AND CALCITE INTRUSIONS. FRACTURED HORIZONTALLY

BORING AC-141

STA. 1250+88.01 15' LT. N.B.L.

EL. 103.37 — 20 — 40 — 60 — 178 — 122 — 138 — 118

- LOOSE GRAVEL FILL
- 1D — MEDIUM GRAYISH BROWN LAYERED SANDY SILT.
- 2D — LOOSE BROWNISH GRAY MOTTLED SILTY FINE SAND.
- 3D — VERY LOOSE MOTTLED TO DARK GRAY SILTY FINE SAND.
- 4D — LAYERED FINE BROWN SAND, SILT AND PEBBLES
- 5D — 10"
- PHYLLITE ROCK
- 60%
- 33% LEDGE: PHYLLITE WITH HIGH ANGLE FOLIATION, FRACTURED HORIZONTALLY

BORING AC-140

STA. 1250+81.03 15' RT. N.B.L.

EL. 102.47 — 20 — 40 — 60

- GRAVEL FILL
- MD — LOOSE FINE BROWN SAND BECOMING SILTY AND GRAY MOTTLED, DARK GRAY WITH DEPTH.
- 1D — VERY LOOSE DARK GRAY SILTY SAND
- 2D — VERY LOOSE BROWN MEDIUM SAND, SOME SILT.
- 3D — 9"
- MD — 78% LEDGE: PHYLLITE WITH HIGH ANGLE FOLIATION, CALCITE AND QUARTZ INTRUSIONS, HORIZONTALLY FRACTURED.

BORING NOTES

- ALL SAMPLES ARE MADE AHEAD OF CASING.
- NUMBER OF BLOWS REQUIRED TO DRIVE EXTRA HEAVY CASING ONE FOOT WITH 400 FT. LBS. OF ENERGY PER BLOW.
- LOCATION OF SAMPLE OR SAMPLE ATTEMPT.
- ID — NUMBER AND TYPE OF DRY SAMPLE. S&H SAMPLER @ 1280'S
- MD — UNSUCCESSFUL SAMPLE ATTEMPT AND TYPE OF SAMPLER.
- NUMBER OF BLOWS REQUIRED TO DRIVE SPOON OR TUBING ONE FOOT WITH 350 FT. LBS. OF ENERGY PER BLOW.
- BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
- 71% — LOCATIONS CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK.

℄ PIER 1

BORING AC-137

STA. 1252+07.4 15' LT. S.B.L.

EL. 98.29 — 20 — 40 — 60

- BROWN LOAM
- 1D — VERY LOOSE FINE BROWN SAND BECOMING SILTY AND GRAY MOTTLED
- 2D — VERY LOOSE BROWNISH GRAY SILTY SAND.
- LOOSE BROWN SANDY GRAVEL
- 3D — VERY LOOSE BROWN MEDIUM GRRINED SAND, SOME SILT. — 130
- BROWN SILTY GRAVELLY SAND (TILL) — 230 — 110
- 4D — 85/8" — 113
- 47% LEDGE: PHYLLITE WITH HIGH ANGLE FOLIATION, CALCITE AND QUARTZ INTRUSION.

BORING AC-136

STA. 1252+00.4 15' RT. S.B.L.

EL. 98.27 — 20 — 40 — 60

- DARK BROWN SILTY LOAM
- 1D — VERY LOOSE FINE BROWN SAND BECOMING SILTY, CHANGING TO GRAY MOTTLED. LOOSE BROWN SANDY GRAVEL.
- 2D — LOOSE BROWN SANDY GRAVEL
- MD — 137
- 97% LEDGE: PHYLLITE WITH HIGH ANGLE FOLIATION, CALCITE AND QUARTZ INTRUSIONS.
- 03%

BORING AC-135

STA. 1251+26 15' LT. N.B.L.

EL. 98.13 — 20 — 40 — 60

- DARK BROWN SILTY LOAM
- 1D — VERY LOOSE FINE BROWN SAND BECOMING SILTY AND GRAY MOTTLED.
- 2D — LOOSE BROWN SANDY GRAVEL.
- 3D — VERY LOOSE FINE BROWN SILTY SAND. — 95 — 90
- 57% LEDGE: PHYLLITE WITH HIGH ANGLE FOLIATION. QUARTZ AND CALCITE INTRUSIONS. VERY BROKEN AT TOP.

BORING AC-139

STA. 1251+19 15' RT. N.B.L.

EL. 103.86 — 20 — 40 — 60

- GRAVEL FILL
- MD — LOOSE BROWN SILTY SAND
- MD — VERY LOOSE FINE BROWN SAND BECOMING SILTY AND GRAY MOTTLED, CHANGING TO DARK GRAY WITH DEPTH.
- 1D — LOOSE BROWN SAND, GRAVEL AND ROCKS.
- MD — 95
- 91% LEDGE: PHYLLITE WITH HIGH ANGLE FOLIATION, CALCITE AND QUARTZ INTRUSIONS. HORIZONTAL FRACTURES.

DESIGN — TRACE — CHECK — Soils Division

BRIDGE NO. SURVEY — PLOT —

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
BORING DETAILS

SHEET 63 OF 92 AUGUSTA, MAINE July 1962

C. B. CO., NO. 3788 — 10/57

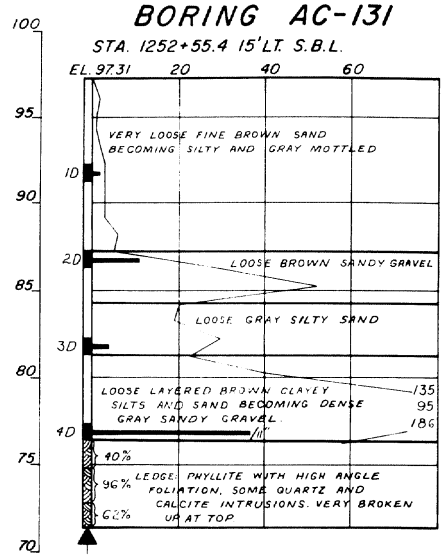
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(66)	64	92

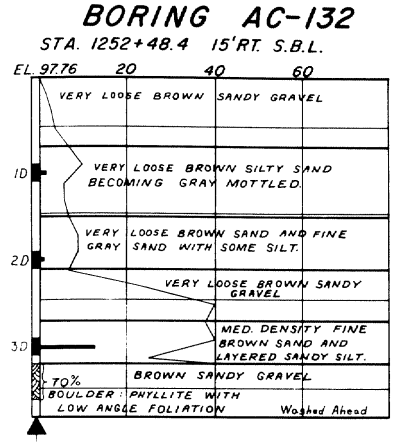
DRIVING RESISTANCE

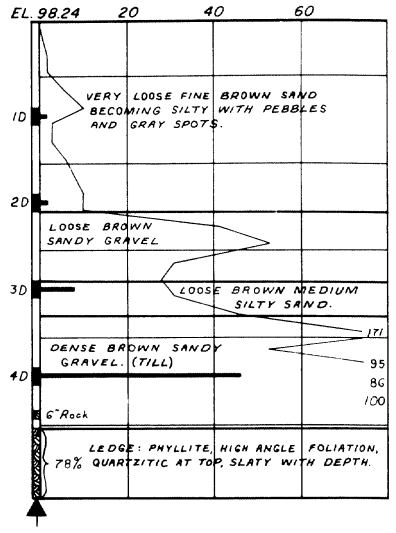
BLOWS / FOOT

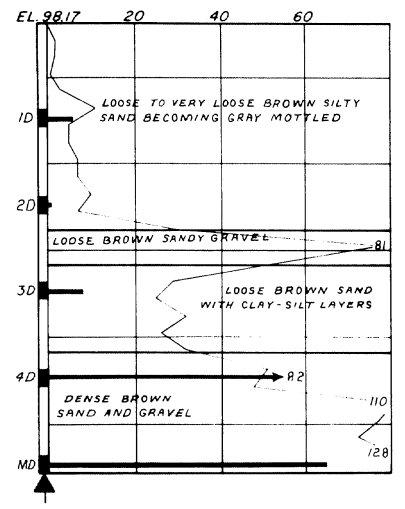
℄ PIER 2

ELEVATION

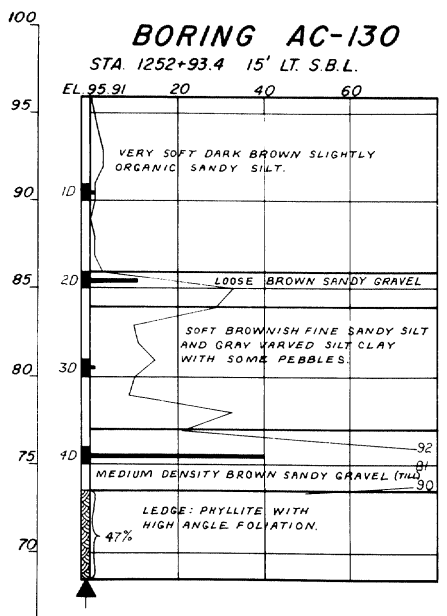


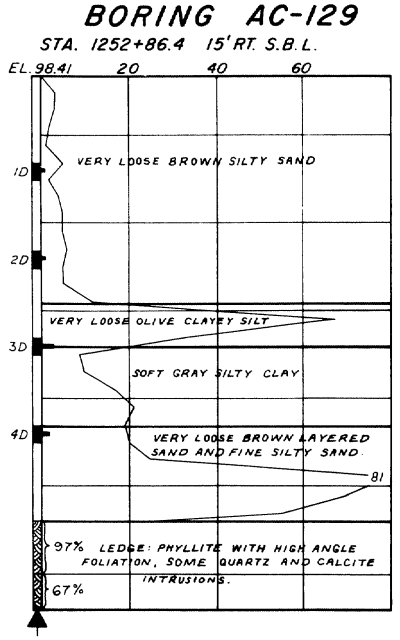


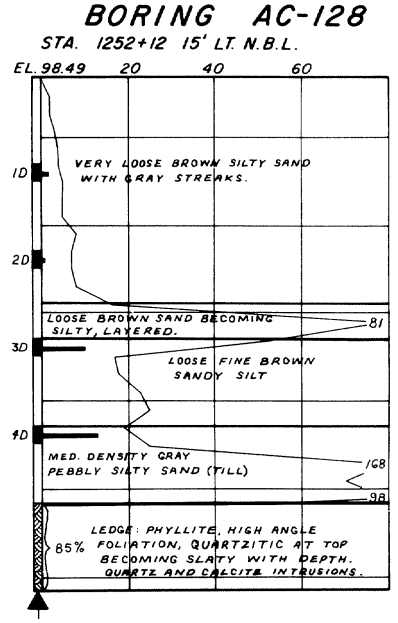


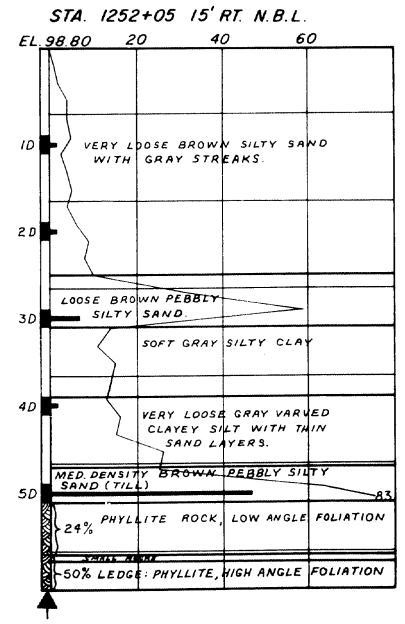


℄ BEARINGS ABUT. 2









DESIGN– TRACE– CHECK– Soils Division	BRIDGE NO. SURVEY– P.-OT–

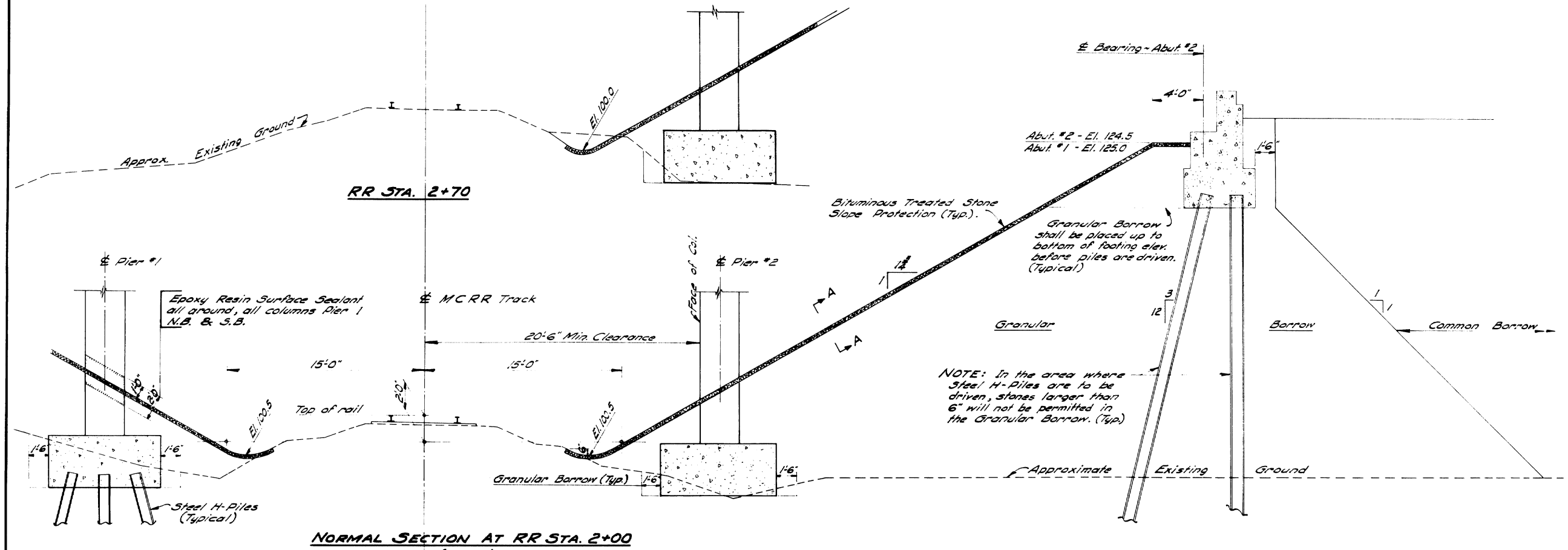
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
BORING DETAILS

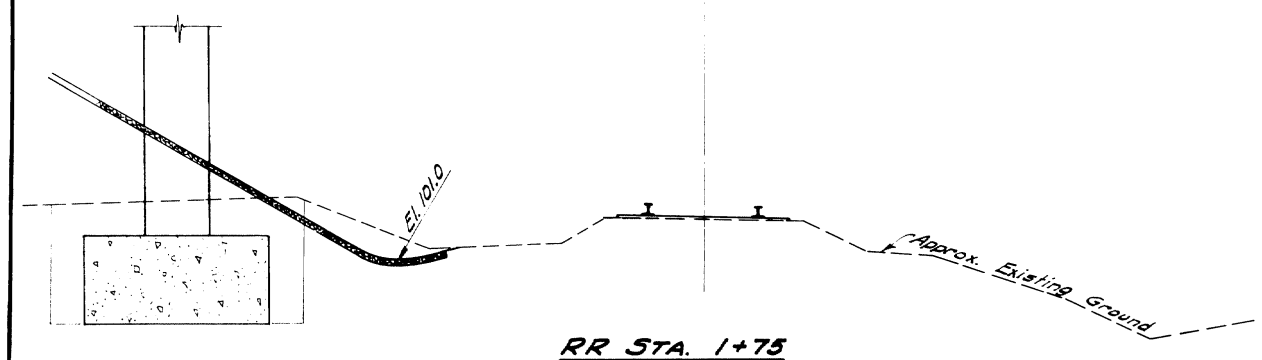
SHEET 64 OF 92 AUGUSTA, MAINE July 1962

C. B. CO., NO. 3788

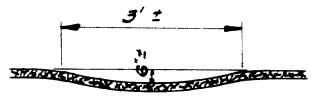
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-IG-95-6(26)	65	92



NORMAL SECTION AT RR STA. 2+00
(Typical)



RR STA. 1+75



SECTION A-A

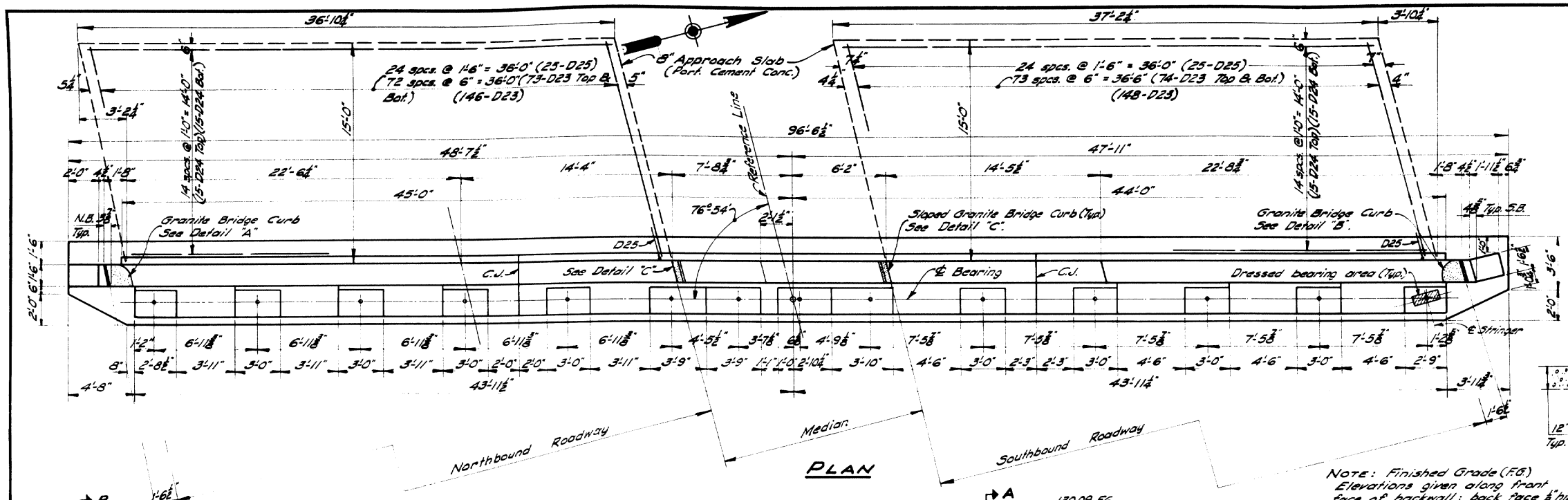
Depress Bituminous Treated Stone Slope Protection under each bridge drain. Carry depression to bottom of slope to clear pier columns.

DESIGN- E
TRACE- G.M.C.
CHECK- A.W.
BRIDGE NO.
SURVEY -
PLOT- G.M.C.

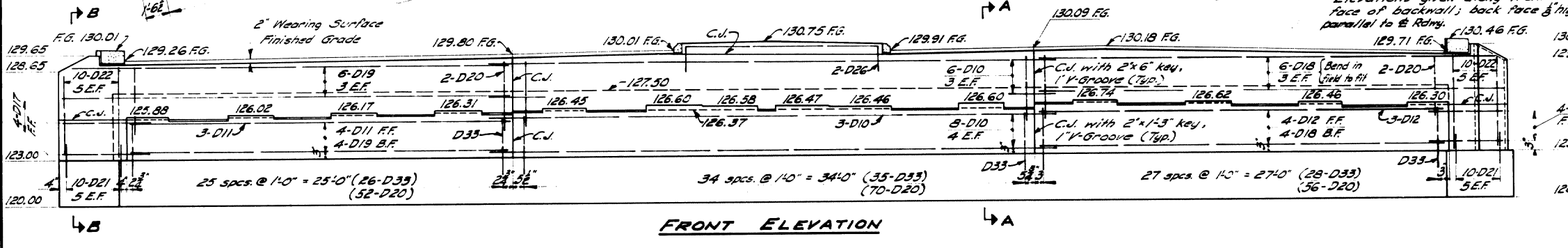
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
DITCH SECTIONS AT TRACK
SHEET 65 OF 92 AUGUSTA, MAINE NOV. 1962

K-E 166 IMPERIAL D. L. W. INC. MADE

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-13-95-6(26)	66	92

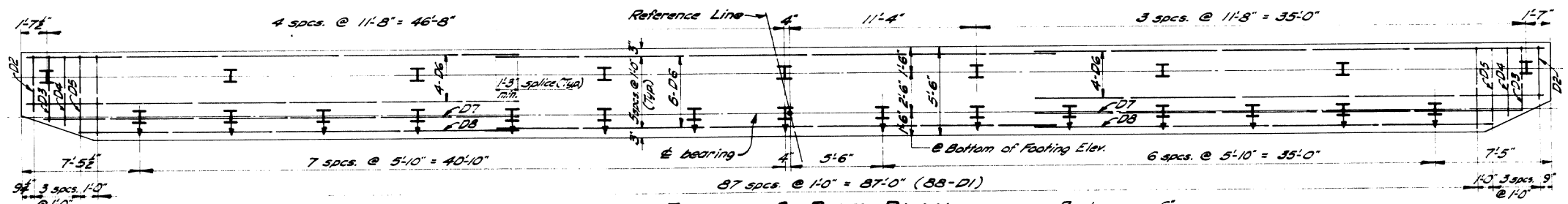


PLAN

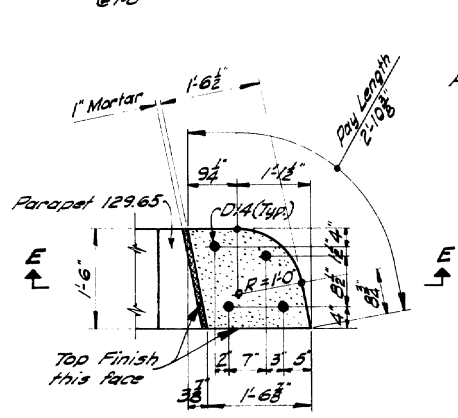


FRONT ELEVATION

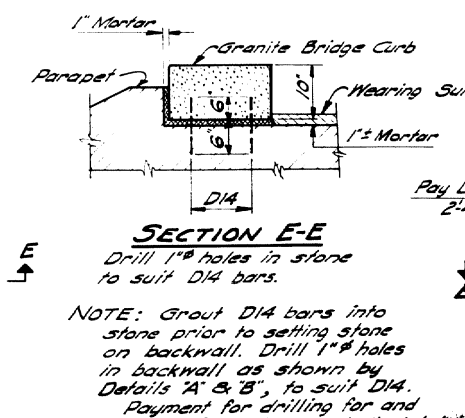
Note: Finished Grade (F.G.) Elevations given along front face of backwall; back face ⅝" higher parallel to ℄ Rdwy.



FOOTING & PILE PLAN



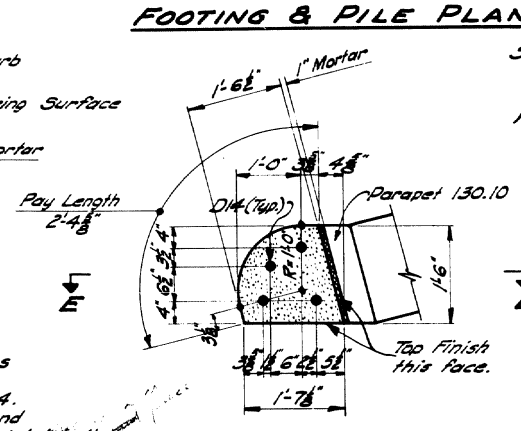
DETAIL "A"



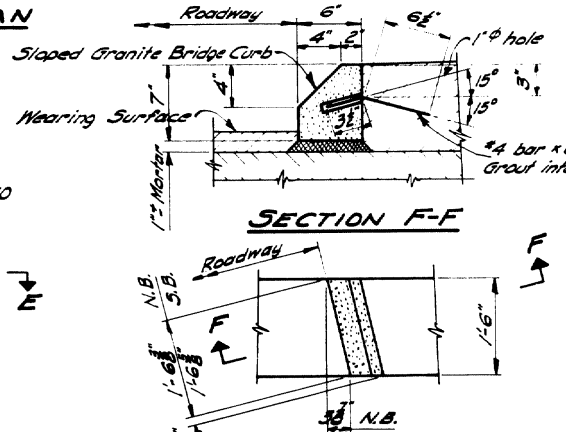
SECTION E-E

Drill 1"ϕ holes in stone to suit D14 bars.

NOTE: Grout D14 bars into stone prior to setting stone on backwall. Drill 1"ϕ holes in backwall as shown by Details "A" & "B", to suit D14. Payment for drilling for and grouting of D14 bars to be included in the price for Item 705-14, Reinforcing Steel, Placing.

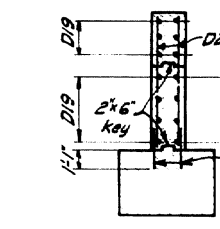


DETAIL "B"

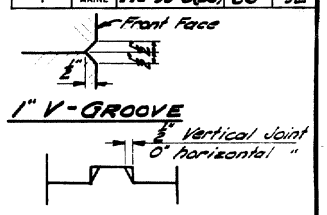


SECTION F-F

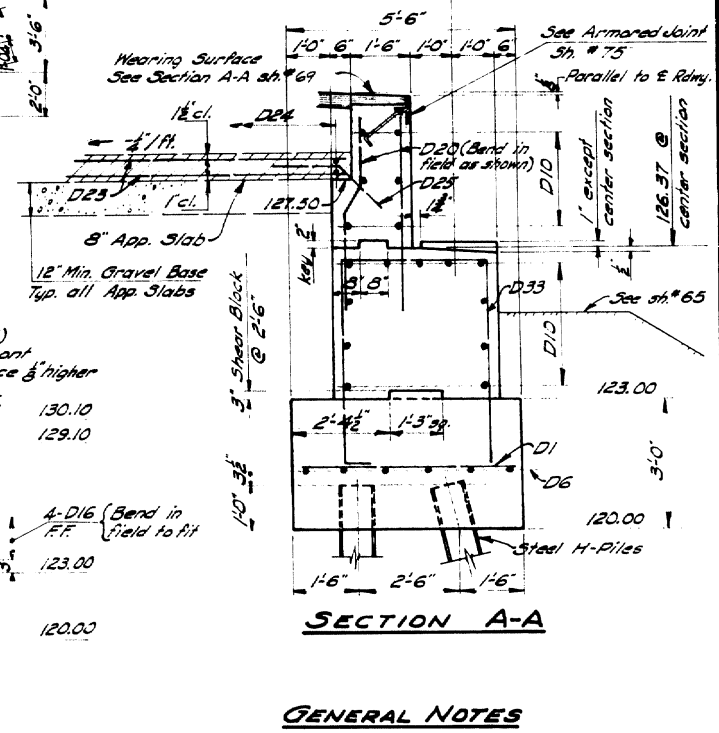
DETAIL "C"



SECTION B-B



KEY DETAIL



SECTION A-A

GENERAL NOTES

1. Place reinforcing steel in bridge seats to clear anchor bolts.
2. Dress an area for bearings on bridge seats 1" larger all around than size of masonry plate to exact elevations shown.
3. Cover all vertical construction joints on the back with two layers of heavy roofing 10" wide. Coat the concrete and the back of each layer as applied with a suitable grade of plastic cement. Recess area to be covered ½".
4. Coat the vertical construction joints with asphalt paint to prevent bond.
5. Concrete in approach slabs to be paid for under Item 701-50, Portland Cement Concrete, Approach Slabs.
6. Waterproof face of Abutment #1 down to top of footing with Epoxy Resin Surface Sealant.

LEGEND

N.B. = Northbound
S.B. = Southbound
C.J. = Construction Joint
B.F. = Back Face
F.F. = Front Face
E.F. = Each Face

PILE NOTES

1. Steel H-Piles, 10 BP 42 (24 req'd. @ each abut.)
2. Max. Pile Load = 37 Tons
3. Batter piles marked thus H+ 3" per foot in direction of arrow.
4. Drive piles to ledge or practical refusal
5. Estimated Length { Abut. #1 - 30 feet; Abut. #2 - 55 feet }

DESIGN- LF DETAIL - C.D.H. TRACE - G.M.C. CHECK - A.M.F. PLOT -

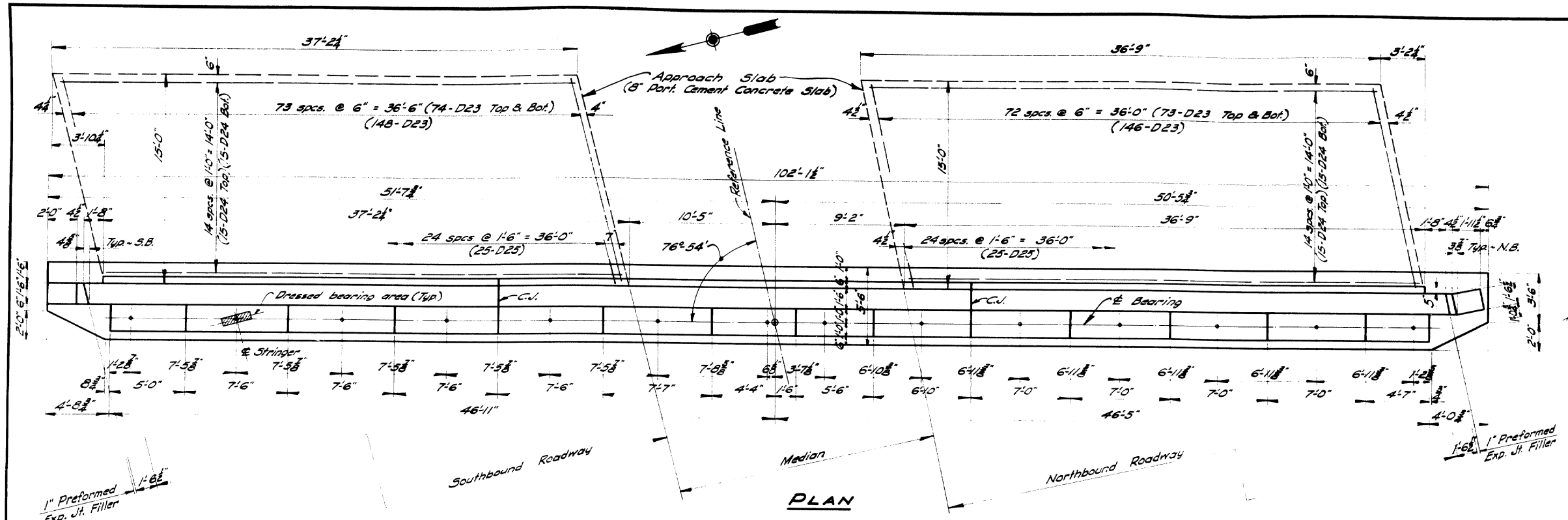
BRIDGE NO. SURVEY -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
ABUTMENT NO. 1

SHEET 66 OF 92 AUGUSTA, MAINE Nov. 1962

K-E 166 IMPERIAL

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(26)	67	92



NOTE: See Abutment No. 1, Sh. #66 for "General Notes." and "Pile Notes".

DESIGN- EF DETAIL- C.D.H. TRACE- B.H.C. CHECK- A.W.C. BRIDGE NC SURV-Y- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
ABUTMENT NO. 2

SHEET 67 OF 92 AUGUSTA, MAINE NOV. 1962

C. O. CO., NO. 3788

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-IG-95-6(126)	68	92

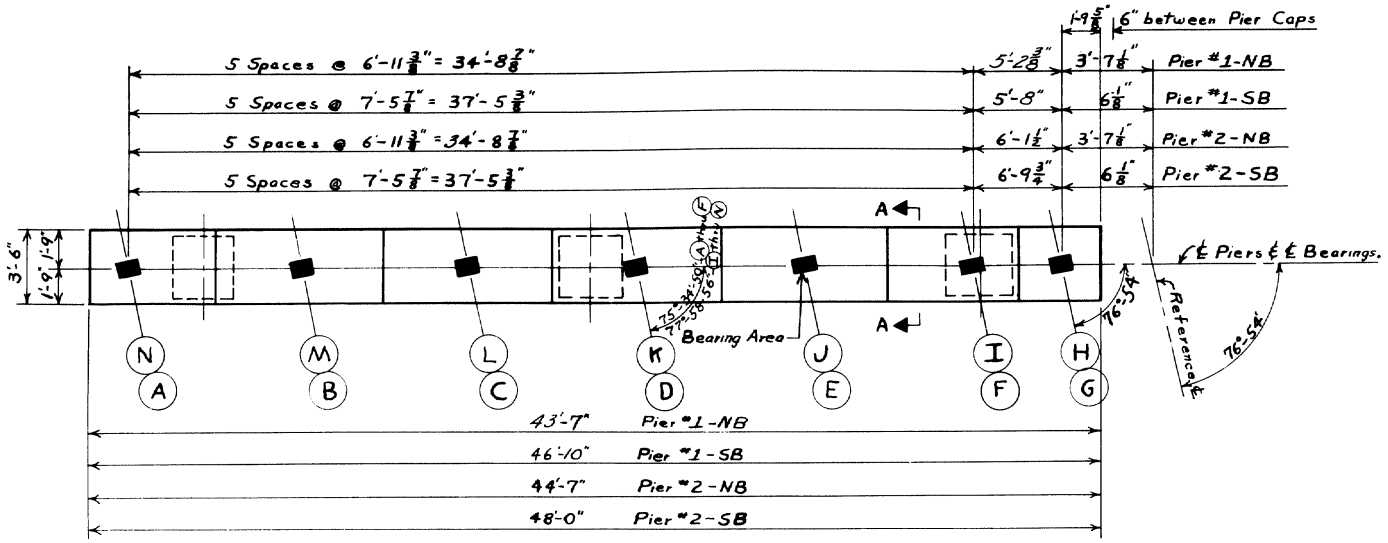
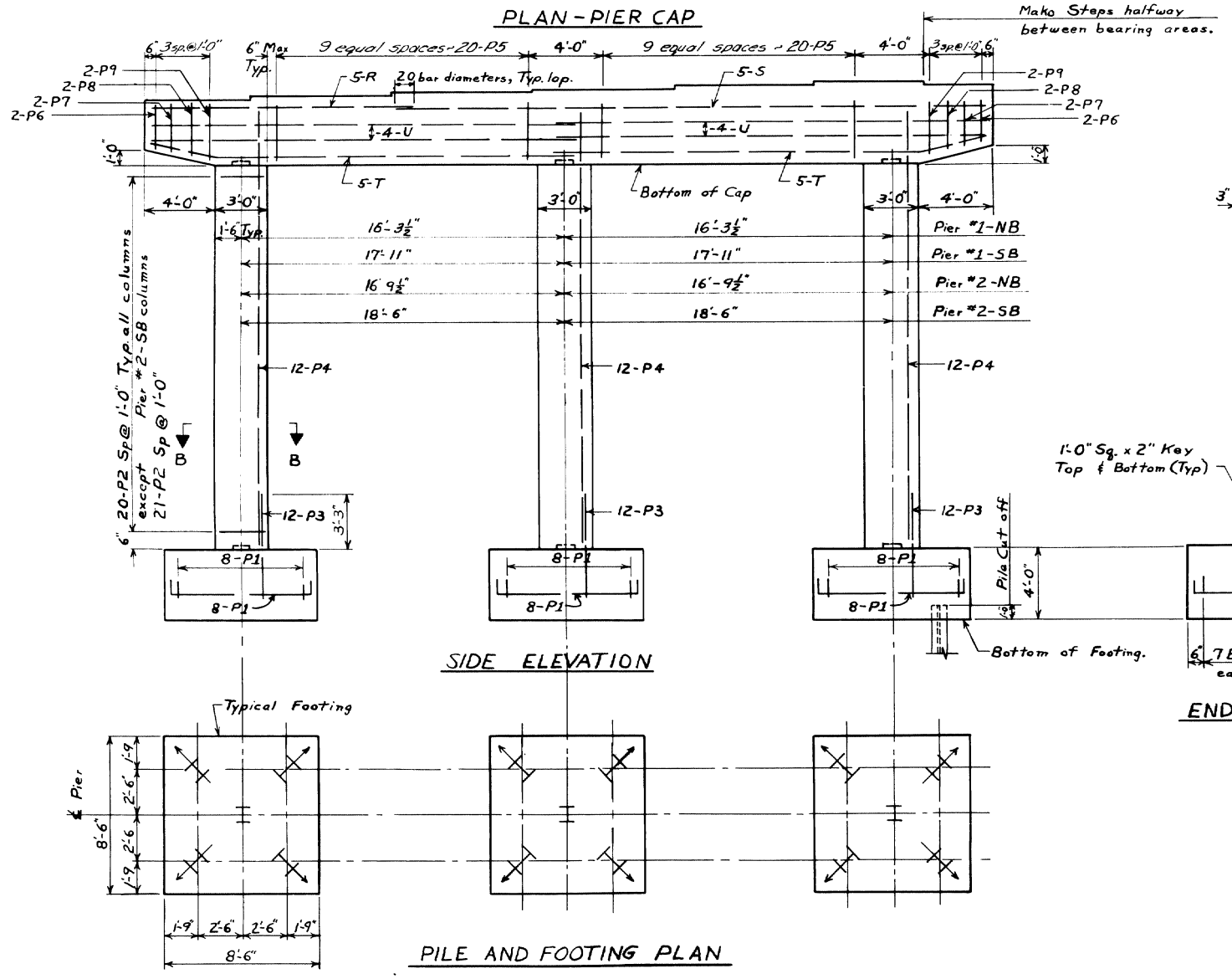


TABLE OF ELEVATIONS

LOCATION		BEARING AREA A	B	C	D	E	F	G	BOTTOM OF CAP	BOTTOM OF FOOTING
SB	Pier #1	126.09	126.25	126.41	126.53	126.39	126.25	126.26	122.55	98.00
	Pier #2	125.85	126.01	126.17	126.29	126.15	126.01	126.02	122.31	97.50
		H	I	J	K	L	M	N		
NB	Pier #1	126.37	126.39	126.24	126.10	125.96	125.81	125.67	122.17	98.00
	Pier #2	126.13	126.15	126.00	125.86	125.72	125.57	125.43	121.93	97.50

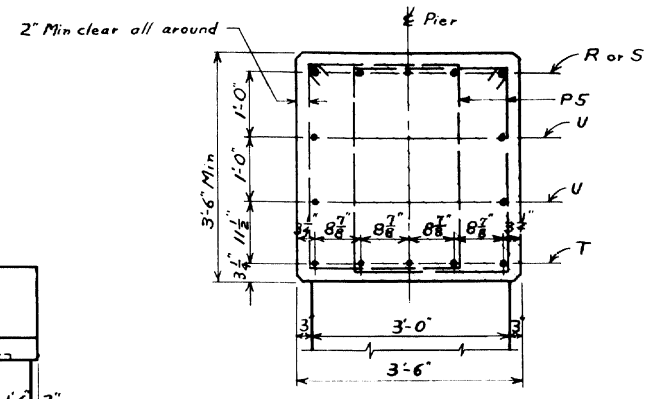
PLAN - PIER CAP



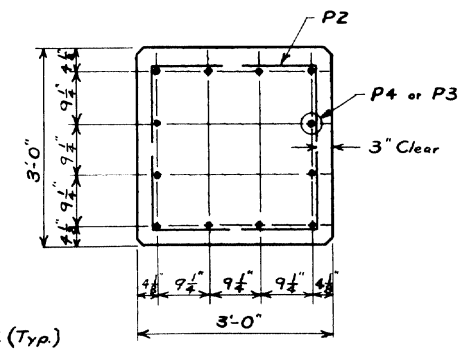
SIDE ELEVATION

END ELEVATION

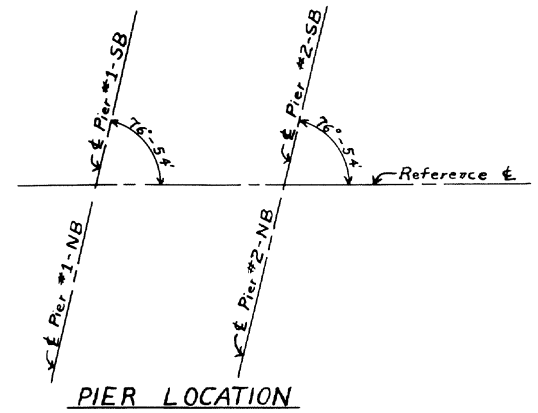
PILE AND FOOTING PLAN



SECTION A-A



SECTION B-B
Typical for all columns.



PIER LOCATION

PILE NOTES

1. All piles shall be 10BP42 Steel H-Piles.
2. Maximum Pile Load = 37 tons.
3. Piles are to be driven to ledge or practical refusal in order to develop end bearing.
4. Estimated length of piles:
   Pier #1-NB 15@ 25'-0"
   Pier #1-SB 15@ 30'-0"
   Pier #2-NB 5@ 30'-0", 10@ 35'-0"
   Pier #2-SB 15@ 30'-0"
5. Piles marked thus ⊢→ to be battered 2 inches per foot in direction of arrow.

NOTES

1. Position reinforcing steel under bearings in pier cap to clear swedged anchor bolts.
2. Chamfer all exposed edges of concrete ¾ inch.
3. Dress the shaded bearing areas on the bridge seats 1 inch larger all around than masonry plates to the exact elevations shown in "Table of Elevations."
4. NB means Northbound, SB means Southbound.
5. See sheet #65 for details of Epoxy Resin Surface Sealant on Pier 1 columns.

DESIGN- C. D. H.
TRACE- L. E. C.
CHECK- H. W. T.
BRIDGE N.
SURVEY-
PLOT-

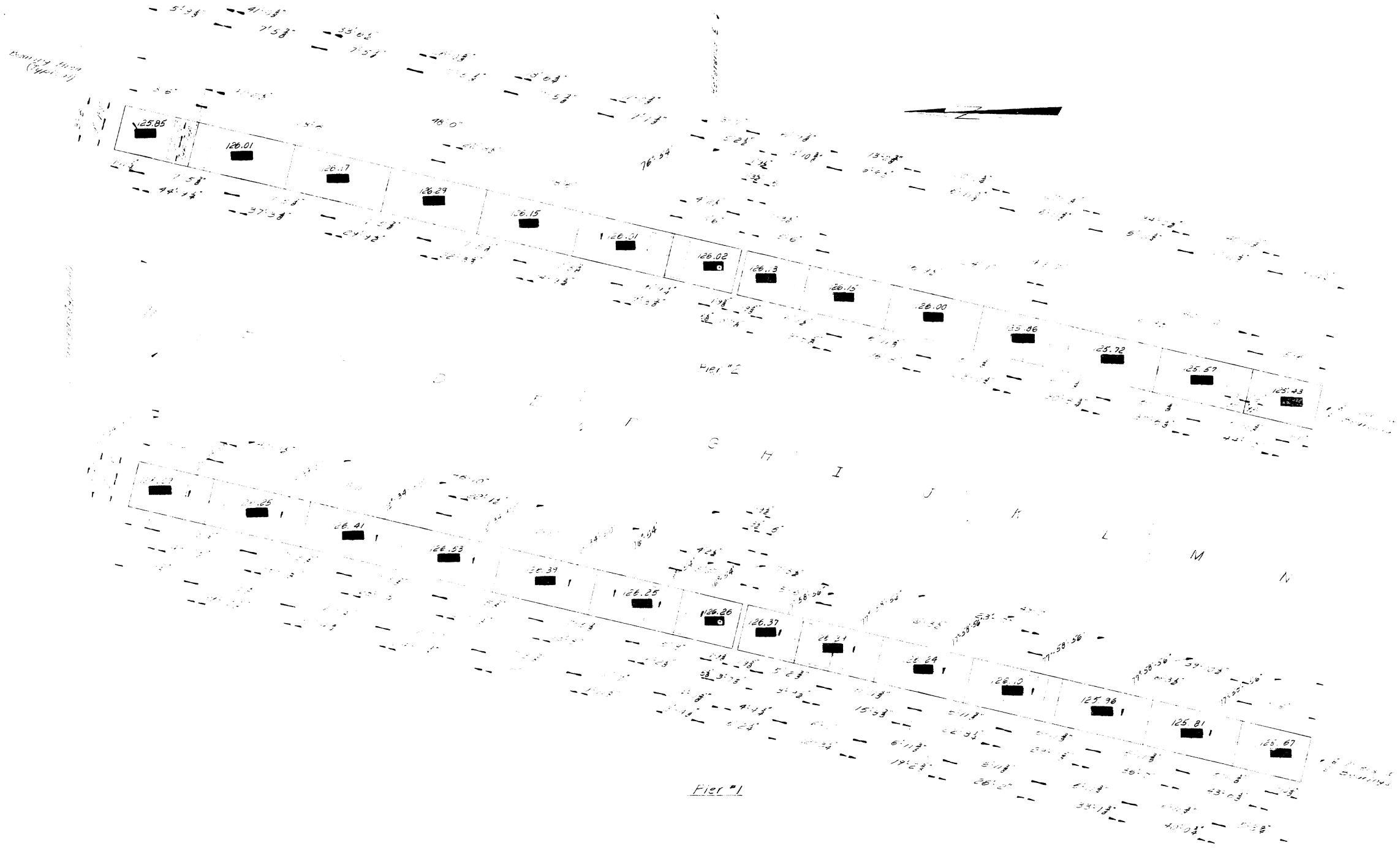
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
PIERS

SHEET 68 OF 92 AUGUSTA, MAINE NOV. 1962

C. S. CO., NO. 3788 28167

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



Pier #1

SOUTHBOUND PLAN - PIER CAPS NORTHBOUND

NOTE: SEE LETTER "A" TO DIRECTIONS OF THE SOUTH PIER.

DESIGN– TRACE– CHECK– JMH-CCR

BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY

PIER #1 PLANS

SHEET OF AUGUSTA, MAINE

C. B. CO., NO. 44-302 38819

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-26-95-6(26)	69	92

N

Note: Alternate position of splices E17 with E18 thru E31.

Reference ℄ ℄ Const Joint

Rail Post Spacing
Curb and Parapet CJ's

℄ Post
℄ Bearing - Abut. 1
℄ Pier 1
℄ Pier 2
℄ Bearing - Abut. 2

CJ Curb only
CJ Median only

E33 bars
E34 bars
E35 bars
E36 bars
E37 bars
E38 bars
E39 bars
E40 bars
E41 bars
E42 bars

E1 E2 E3 E4 E5 E6 E7 E8
E10 E11 E12 E13 E14 E15 E16
E17 E18 E19 E20 E21 E22 E23 E24
E25 E26 E27 E28 E29 E30 E31
E9

for "Details" see sheet 71.

PLAN

SECTION C-C

SECTION A-A

SECTION B-B

SECTION D-D

1" V-GROOVE

CONSTRUCTION JOINT
Typical

Backwall
Bridge
Pavement Reinforcing between courses of bituminous concrete
16 WF 36

Not a part of this Contract

NOTE: Pavement Reinforcing to be #10 gage 4"x4" galvanized steel wire mesh or equivalent 3'-0" by 26'-0" at each abutment. Payment to be incidental to the contract unit price for Item 404-28, Bituminous Concrete Surface Course - Type A.

Pavement Reinforcing
1 Layer of heavy roofing

Work this sheet with sheets 70 & 71.

DESIGN- DET.- E.E.L.
TRACE- E.E.L.
CHECK- K.W.
BRIDGE NO.
SURVEY
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

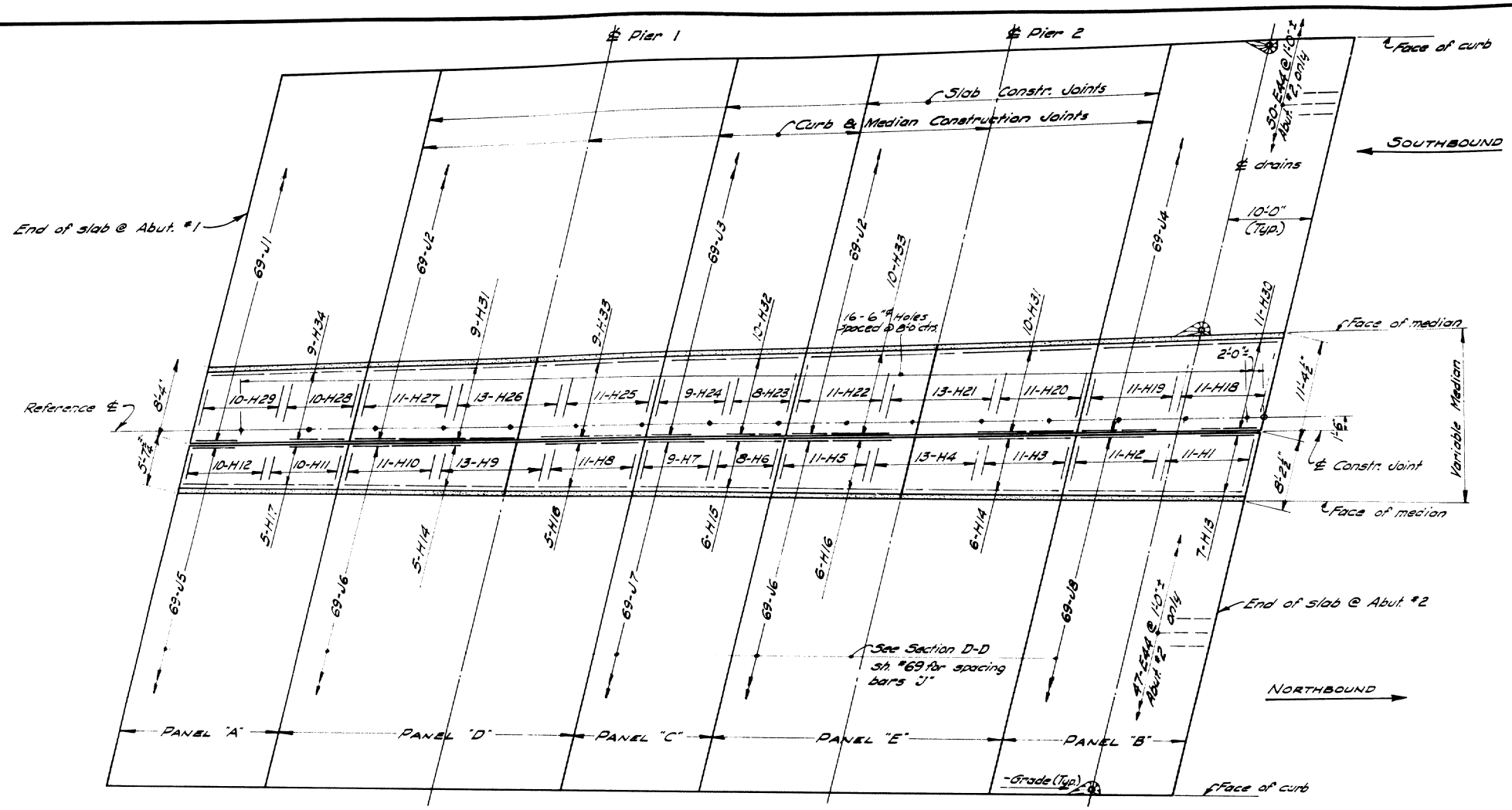
INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY

SUPERSTRUCTURE

SHEET 69 OF 92 AUGUSTA, MAINE Nov. 1962

C. P. CO., NO. 3788 28147

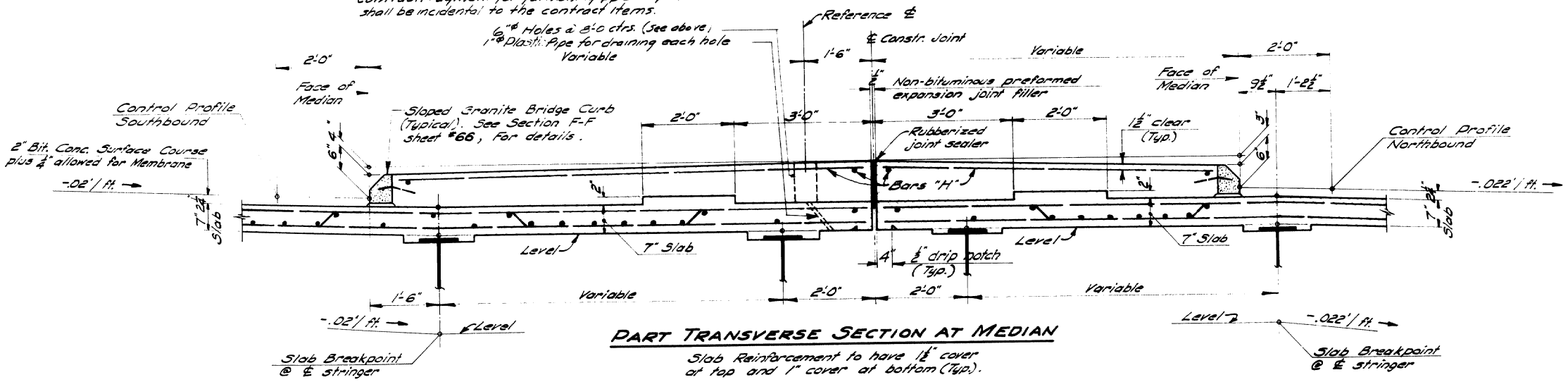
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-16-95-6(26)	70	92



PLAN

Place Slab Panels A-B-C before D&E. Placing sequence is same for Southbound. Sequence for placing curbs, rail parapets and median shall be the same as for slab panels.

6"℄ holes to be used for the future installation of metal posts supporting a Barrier Type Chain Link Fence. Posts to be grouted into position. Furnishing and installing posts are not a part of this contract. Payment for furnishing & placing the 1"℄ Plastic drain pipes shall be incidental to the contract items.



PART TRANSVERSE SECTION AT MEDIAN

Slab Reinforcement to have ½" cover at top and 1" cover at bottom (Typ).

NOTES

Concrete in curbs and median shall not be placed until the entire superstructure slab has been cured for seven (7) days. During this period granite curb may be set and form work will be allowed, but hand tools only will be permitted on the slab.

At joints in curb, chamfer vertical faces in curb & slab with 1"V-Grooves. Use edging tool for joint at top of curb and median. Provide joints in granite curb to match joints in concrete. At joints in concrete and granite over piers, use ½" preformed expansion joint filler. At all other joints, break bond between surfaces with a coat of asphalt paint. Do not break bond in slab joints.

Rubberized joint sealer shall be supported as indicated. At the contractors option the supporting material may be left in place or removed. If the supporting material is left in place, it shall be compressible in accordance with specification A.A.S.H.O. M. 153-54. If the supporting material is to be removed, bonding with rubberized joint sealer shall be prevented by a method satisfactory to the Engineer (layer of fine sand, waxed paper etc.)

Work this sheet with sheet # 69

DESIGN- WF
TRACE- G.M.C.
CHECK- N.W.T.

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

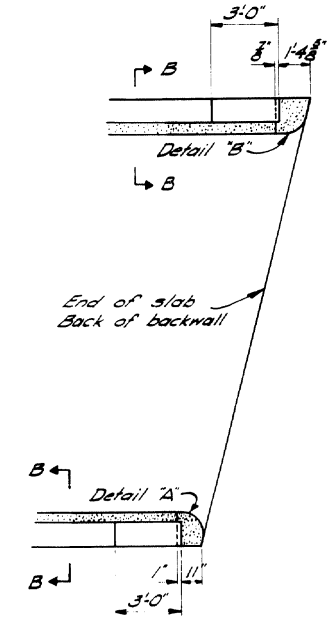
INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY

SUPERSTRUCTURE

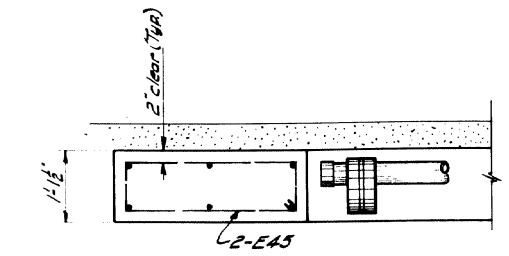
SHEET 70 OF 92 AUGUSTA, MAINE Nov. 1962

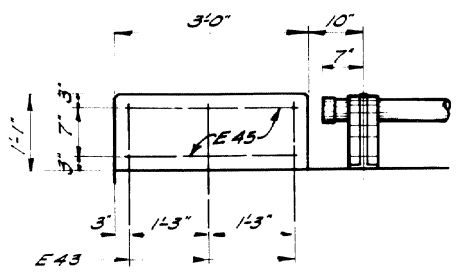
C. D. CO., NO. 3768 49767

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-IG-95-6(6)	71	92

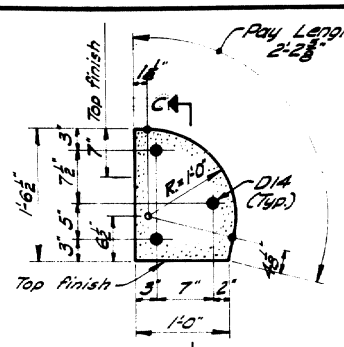


END POST LOCATION
Abutment #2

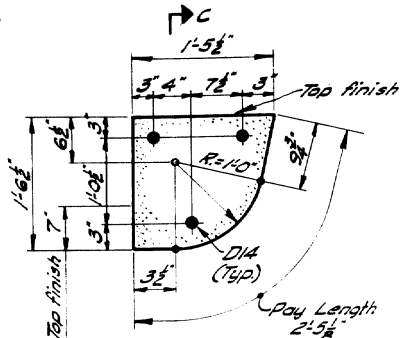




END POST
Typical

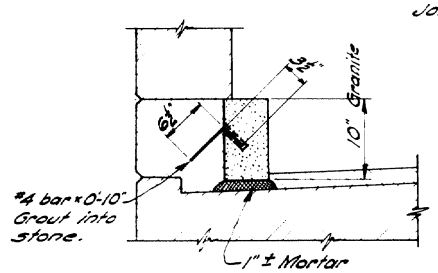


DETAIL "A"

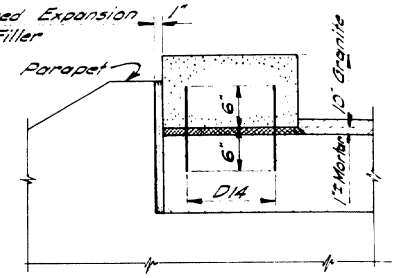


NOTE: Drill 1"ϕ holes in stone to suit D14 bars.

DETAIL "B"



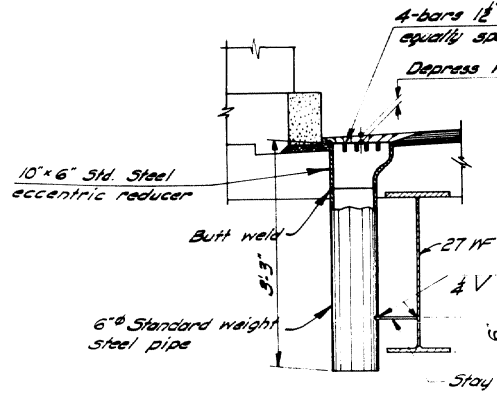
SECTION B-B

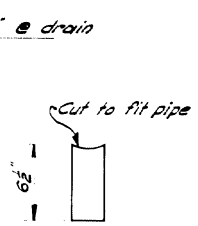


SECTION C-C

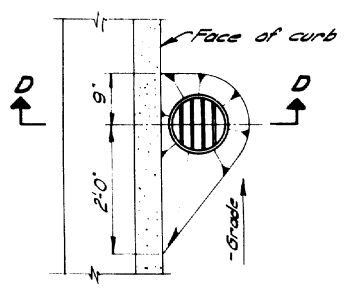
GRANITE BRIDGE CURB

NOTE: Grout D14 bars into stone prior to setting stone on slab. Drill 1"ϕ holes in slab as shown by Details "A" & "B", to suit D14. Payment for drilling for and grouting of D14 bars to be included in the price for Item 705-14, Reinforcing Steel, Placing.





STAY BAR
3 x ⅜ x 0'-6½"

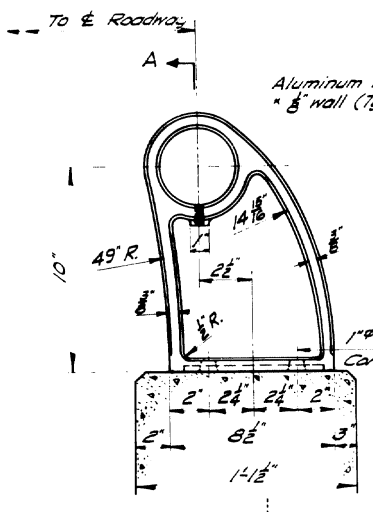


SECTION D-D
3 Drains Req'd.

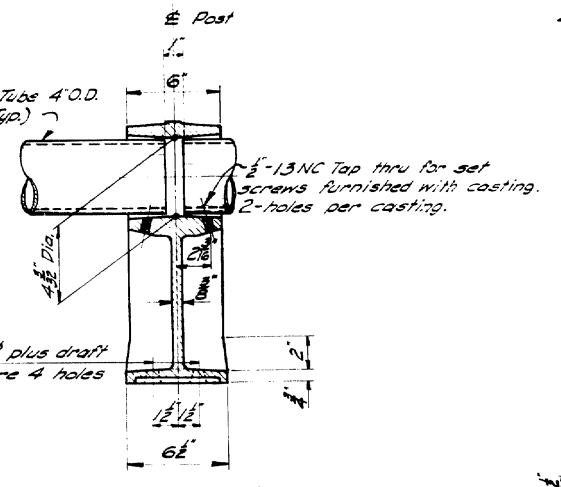
PLAN
See sh. #70 for drain location

NOTE: Payment for steel pipe drains to be included in lump sum prices for Items 702-103A, 702-104A & 702-105A, Structural Steel.

PIPE DRAINS

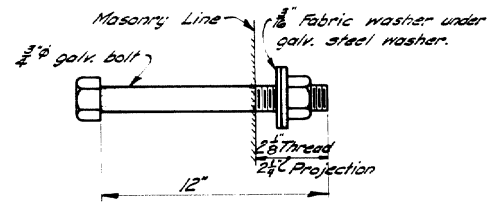


POST

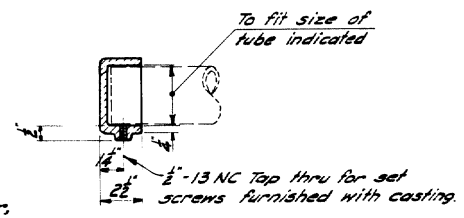


SECTION A-A

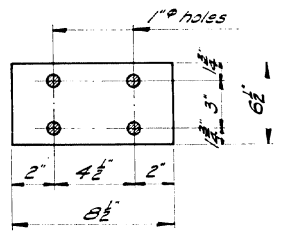
NOTE: Slight variations will be permitted in details, if approved by the Engineer, in order to conform with various manufacturers castings.



ANCHOR BOLT
Structural steel galvanized bolts to project 2½" out of concrete.
4-Bolts per post.



CAP



SHIM
Aluminum alloy shims 6½" x ½" x 0'-8½"
Furnish in the amount of 50% of number of rail posts. Cut as necessary.

NOTE: To the extent possible, aluminum tubes to be continuous for two rail panels with 1" clear between ends of tubes @ ℄ post. For tubes two panels long, set screws at center post to be tight, and at ends to bear. For alternate Steel Rail see sh. #58A.

ALUMINUM RAIL DETAILS

C. D. CO., NO 3798 28747

DESIGN- E DET.- E.E.L. | BRIDGE NO.
TRACE- G.M.C. | SURVEY-
CHECK- A.W.T. | PLOT-

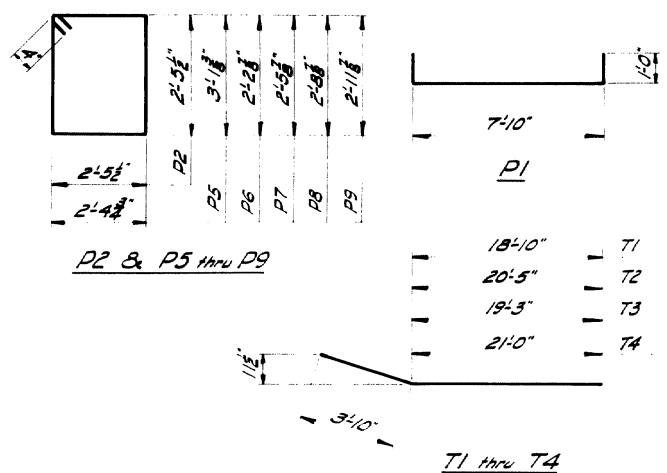
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
SUPERSTRUCTURE
SHEET 71 OF 92 AUGUSTA, MAINE Nov. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-IR-95-6(26)	72	92

REINFORCING STEEL SCHEDULE

PIERS

BENT BARS



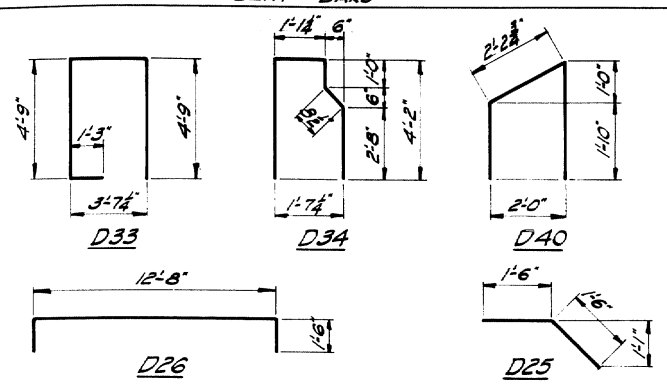
MARK	SIZE	NO.	LENGTH	LOCATION
P1	#9	192	9'-10"	Footings
P2	#A	243	10'-6"	Column Ties
P5	#5	160	11'-8"	Cap Stirrups
P6	#5	16	9'-11"	" "
P7	#5	16	10'-5"	" "
P8	#5	16	10'-11"	" "
P9	#5	16	11'-5"	Cap Stirrups
T1	#10	10	22'-8"	Bottom of Cap - Pier #1 N.B.
T2	#10	10	24'-3"	" " " - Pier #1 S.B.
T3	#10	10	23'-1"	" " " - Pier #2 N.B.
T4	#10	10	24'-10"	Bottom of Cap - Pier #2 S.B.

STRAIGHT BARS

P3	#10	144	6'-6"	Footing Dowels
P4	#10	144	23'-5"	Columns
R1	#11	5	14'-2"	Top of Cap - Pier #1 N.B.
R2	#11	5	15'-3"	" " " - Pier #1 S.B.
R3	#11	5	14'-8"	" " " - Pier #2 N.B.
R4	#11	5	15'-6"	" " " - Pier #2 S.B.
S1	#11	5	31'-3"	Top of Cap - Pier #1 N.B.
S2	#11	5	33'-5"	" " " - Pier #1 S.B.
S3	#11	5	31'-9"	" " " - Pier #2 N.B.
S4	#11	5	34'-4"	" " " - Pier #2 S.B.
U1	#6	8	22'-2"	Side of Cap - Pier #1 N.B.
U2	#6	8	23'-11"	" " " - Pier #1 S.B.
U3	#6	8	22'-9"	" " " - Pier #2 N.B.
U4	#6	8	24'-6"	" " " - Pier #2 S.B.

ABUTMENTS

BENT BARS



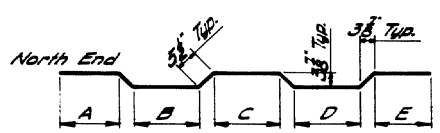
MARK	SIZE	NO.	LENGTH	LOCATION
D25	#6	100	3'-0"	Abutments - Approach Slabs
D26	#5	2	15'-8"	Abut. #1 - Median
D33	#5	183	14'-5"	Abutments - Breast Walls
D34	#5	94	9'-8"	Abut. #2 - Backwall
D40	#5	4	6'-11"	Abut. #2 - Parapets

STRAIGHT BARS

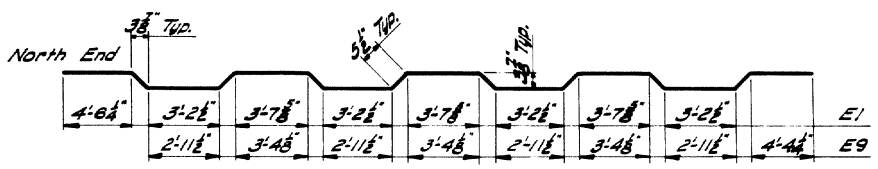
D1	#6	182	5'-0"	Abutments - Footings
D2		4	3'-4"	" "
D3		4	3'-10"	" "
D4		4	4'-4"	" "
D5		4	4'-10"	" "
D6		14	32'-10"	Abut. #1 - Footing
D7		2	31'-4	" "
D8	#6	2	29'-4"	" "
D10	#5	17	37'-2"	Abut. #1 - Backwall & Breastwall
D11	#5	7	25'-3"	Abut. #1 - Breastwall
D12	#5	7	27'-4"	" "
D14	#4	8	1'-0"	Abut. #2 - Granite Blocks
D15	#5	8	5'-1"	" - Wings (Bend in field)
D16		4	4'-11"	Abut. #1 - " (" ")
D17		4	5'-7"	" - "
D18		10	30'-9"	" - Backwall & Breastwall
D19		10	29'-11"	" - " "
D20		178	4'-6"	" - "
D21		38	3'-0"	Abutments - Footing Dowels
D22	#5	38	5'-11"	" - Wings
D23	#6	588	15'-0"	" - Approach Slabs
D24	#4	120	36'-6"	" - " "
D30	#6	14	34'-9"	Abut. #2 - Footing
D31	#6	2	33'-3"	" - "
D32	#6	2	31'-3"	" - "
D35	#5	15	35'-5"	" - Breastwall & Backwall
D36	#5	7	27'-4"	" - "
D37	#5	8	32'-0"	" - " & Backwall
D38	#5	7	32'-5"	" - "
D39	#5	8	35'-11"	" - " & Backwall

SUPERSTRUCTURE

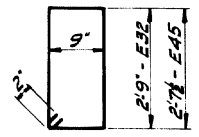
BENT BARS



E2 thru E8 & E10 thru E16



E1 & E9



E32 - E45

MARK	SIZE	NO.	A	B	C	D	E	LENGTH	LOCATION
E2	#5	22	2'-4"	3'-2⅝"	2'-11½"	1'-10⅝"	3'-0"	15'-2"	Slab, S.B.
E3		21	2'-4"	3'-2⅝"	3'-0⅝"	2'-0⅝"	3'-1⅝"	15'-7"	" "
E4		18	2'-4"	3'-2⅝"	3'-1⅝"	2'-3⅛"	3'-2⅝"	15'-11⅝"	" "
E5		19	2'-4"	3'-2⅝"	3'-2⅝"	2'-5⅛"	3'-3⅝"	16'-4⅝"	" "
E6		18	2'-4"	3'-2⅝"	3'-3⅝"	2'-8⅛"	3'-4⅝"	16'-9⅝"	" "
E7		21	2'-4"	3'-2⅝"	3'-5"	2'-11"	3'-6"	17'-2⅝"	" "
E8		24	2'-4"	3'-2⅝"	3'-6¾"	3'-2"	3'-7⅞"	17'-8⅝"	Slab, S.B.
E10		22	2'-11"	1'-8⅝"	2'-8⅝"	2'-11⅛"	2'-2⅝"	14'-4"	Slab, N.B.
E11		21	3'-0"	1'-10⅝"	2'-10"	2'-11⅛"	2'-2⅝"	14'-8⅝"	" "
E12		17	3'-1½"	2'-0⅝"	2'-11"	2'-11⅛"	2'-2⅝"	15'-1"	" "
E13	#5	19	3'-2"	2'-2⅝"	3'-0"	2'-11⅛"	2'-2⅝"	15'-4⅝"	" "
E14	#5	17	3'-3"	2'-4⅝"	3'-1"	2'-11⅛"	2'-2⅝"	15'-8⅝"	Slab, N.B.
E15	#5	21	3'-4"	2'-6⅝"	3'-2"	2'-11⅛"	2'-2⅝"	16'-0⅝"	" "
E16	#5	24	3'-5"	2'-8⅝"	3'-3"	2'-11⅛"	2'-2⅝"	16'-4⅝"	" "
E1	#5	143	—	—	—	—	—	34'-3"	Slab, S.B.
E9	#5	141	—	—	—	—	—	32'-1"	" , N.B.
E32	#4	176	—	—	—	—	—	7'-4"	Curbs
E45	#4	8	—	—	—	—	—	7'-1"	End Posts

STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
H1	#4	11	7'-3"	Median
H2		11	7'-0"	
H3		11	6'-9"	
H4		13	6'-6"	
H5		11	6'-3"	
H6		8	6'-2"	
H7		9	6'-0"	
H8		11	5'-9"	
H9		13	5'-6"	
H10		11	5'-3"	
H11		10	5'-0"	
H12		10	4'-10"	
H13		7	21'-3"	
H14		11	18'-7"	
H15		6	16'-10"	
H16		11	15'-0"	
H17		5	19'-7"	
H18		11	10'-5"	
H19		11	10'-2"	
H20		11	9'-9"	
H21		13	9'-6"	
H22		11	9'-2"	
H23		8	9'-0"	
H24		9	8'-9"	
H25		11	8'-6"	
H26		13	8'-3"	
H27		11	8'-0"	
H28		10	7'-10"	
H29		10	7'-7"	
H30		11	21'-5"	
H31		19	18'-9"	
H32		10	17'-0"	
H33	#4	19	15'-2"	
H34	#4	9	19'-9"	Median

MARK	SIZE	NO.	LENGTH	LOCATION
E17	#5	294	30'-0"	Slab
E18		23	18'-4"	
E19		22	18'-10"	
E20		18	19'-2"	
E21		20	19'-6"	
E22		18	19'-11"	
E23		22	20'-4"	
E24		25	20'-9"	
E25		23	15'-2"	
E26		22	15'-6"	
E27		17	15'-10"	
E28		20	16'-2"	
E29		17	16'-6"	
E30		22	16'-10"	
E31	#5	25	17'-2"	Slab
E33	#4	4	19'-3"	Curb & Rail Par.
E34		8	18'-9"	
E35		8	15'-1"	
E36		4	17'-0"	
E37		4	20'-0"	
E38		4	19'-2	
E39		8	18'-7"	
E40		8	15'-0"	
E41		4	16'-9"	
E42	#4	4	20'-0"	Curb - Rail Par.
E43	#6	24	2'-4"	End Posts
E44	#5	97	4'-0"	Slab @ Abut. #2
D14	#4	6	1'-0"	Granite Curb

MARK	SIZE	NO.	LENGTH	LOCATION
J1	#5	69	19'-8"	Slab
J2		138	34'-3"	
J3		69	17'-0"	
J4		69	21'-4"	
J5		69	19'-6"	
J6		138	33'-11"	
J7		69	16'-9"	
J8	#5	69	21'-1"	Slab

NOTE: Dimensions to ℄ bars. Reinforcing bars to be Intermediate Grade Steel.

DESIGN - LE DET. C.O.H., E.E.; TRACE - BWC; CHECK - WMT; BRIDGE NO.; SURVEY -; PLOT -

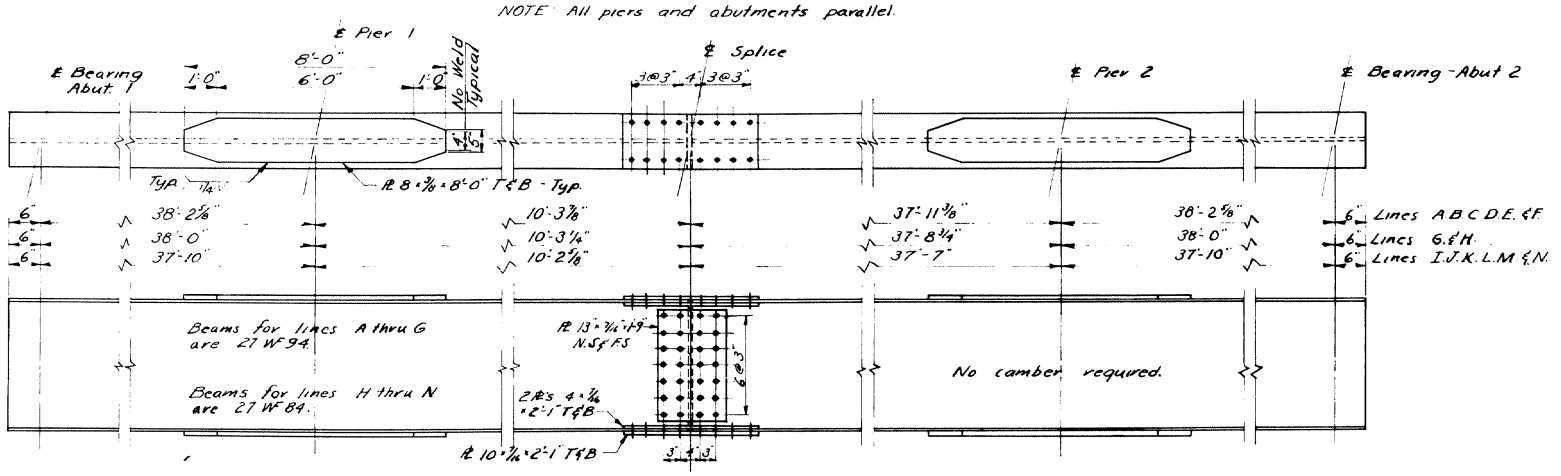
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
REINFORCING STEEL SCHEDULE
SHEET 72 OF 92 AUGUSTA, MAINE Nov. 1962

C. H. CO. NO. 3788 28147

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(26)	73	92

ERECTION DIAGRAM

NOTE: All piers and abutments parallel.



STRINGERS AND SPLICE DETAIL

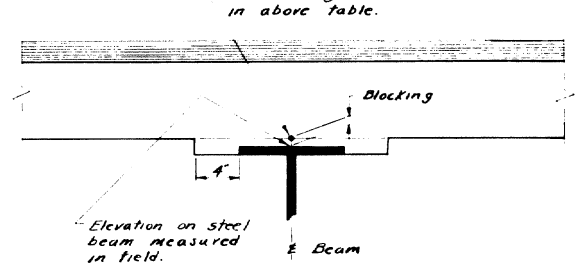
SOUTHBOUND
BOTTOM OF SLAB ELEVATIONS

	Line A	Line B	Line C	Line D	Line E	Line F	Line G
℄ Brg Abut 1	128.94	129.10	129.26	129.38	129.24	129.10	129.11
¼ pt.	128.40	129.06	129.22	129.34	129.20	129.06	129.06
½ pt.	128.87	129.03	129.19	129.31	129.17	129.03	129.04
¾ pt.	128.80	128.96	129.12	129.24	129.10	128.96	128.97
℄ Brg. Pier 1	128.75	128.91	129.07	129.19	129.05	128.91	128.92
¼ pt.	128.70	128.86	129.02	129.14	129.00	128.86	128.87
½ pt.	128.65	128.81	128.97	129.09	128.95	128.81	128.82
¾ pt.	128.60	128.76	128.90	129.02	128.88	128.74	128.75
℄ Brg. Pier 2	128.50	128.67	128.83	128.95	128.81	128.67	128.68
¼ pt.	128.46	128.62	128.79	128.90	128.76	128.62	128.63
½ pt.	128.41	128.60	128.76	128.88	128.74	128.60	128.61
¾ pt.	128.38	128.54	128.70	128.82	128.68	128.54	128.55
℄ Brg Abut 2	128.32	128.48	128.64	128.76	128.62	128.48	128.49

NORTHBOUND
BOTTOM OF SLAB ELEVATIONS

	Line H	Line I	Line J	Line K	Line L	Line M	Line N
℄ Brg Abut 1	129.21	129.23	129.08	128.94	128.80	128.65	128.51
¼ pt.	129.17	129.19	129.04	128.90	128.76	128.61	128.47
½ pt.	129.13	129.15	129.00	128.86	128.72	128.57	128.43
¾ pt.	129.07	129.09	128.94	128.80	128.66	128.51	128.37
℄ Brg. Pier 1	129.02	129.04	128.89	128.75	128.61	128.46	128.32
¼ pt.	128.97	128.99	128.84	128.70	128.56	128.41	128.27
½ pt.	128.92	128.94	128.79	128.65	128.51	128.36	128.22
¾ pt.	128.85	128.87	128.72	128.58	128.44	128.29	128.15
℄ Brg. Pier 2	128.78	128.80	128.65	128.51	128.37	128.22	128.08
¼ pt.	128.73	128.75	128.60	128.46	128.32	128.17	128.03
½ pt.	128.70	128.72	128.57	128.43	128.29	128.14	128.00
¾ pt.	128.65	128.67	128.52	128.39	128.24	128.09	127.95
℄ Brg. Abut 2	128.59	128.61	128.46	128.32	128.18	128.03	127.89

NOTE: In order to compensate for the dead load deflection and any irregularities in the rolling of the steel, elevations will be taken at the above points after the erection of the steel, but before any forms have been constructed. These elevations will be subtracted from elevations given in the tables and the results will be the blocking. (See Blocking Detail")



BLOCKING DETAIL

Blocking over ℄ bearings for all beams is ¼" to top of WF beam.

NOTES

Structural steel for beams, cover plates, and splice plates shall conform to A.S.T.M. Designation A-36. Other steel members shall conform to A.S.T.M. Designation A-36 or A-7.

Field connections shall be ⅞" high tensile strength bolts.

Payment for Self Lubricating Bronze Plates to be included in the lump sum prices for Structural Steel, Items 702-103 A, and 702-104 A.

DESIGN- DETAIL- I. I.
TRACE- N.E.B.
CHECK- N.W.T. E.D.H.
BRIDGE NO.
SURVEY-
PLOT-

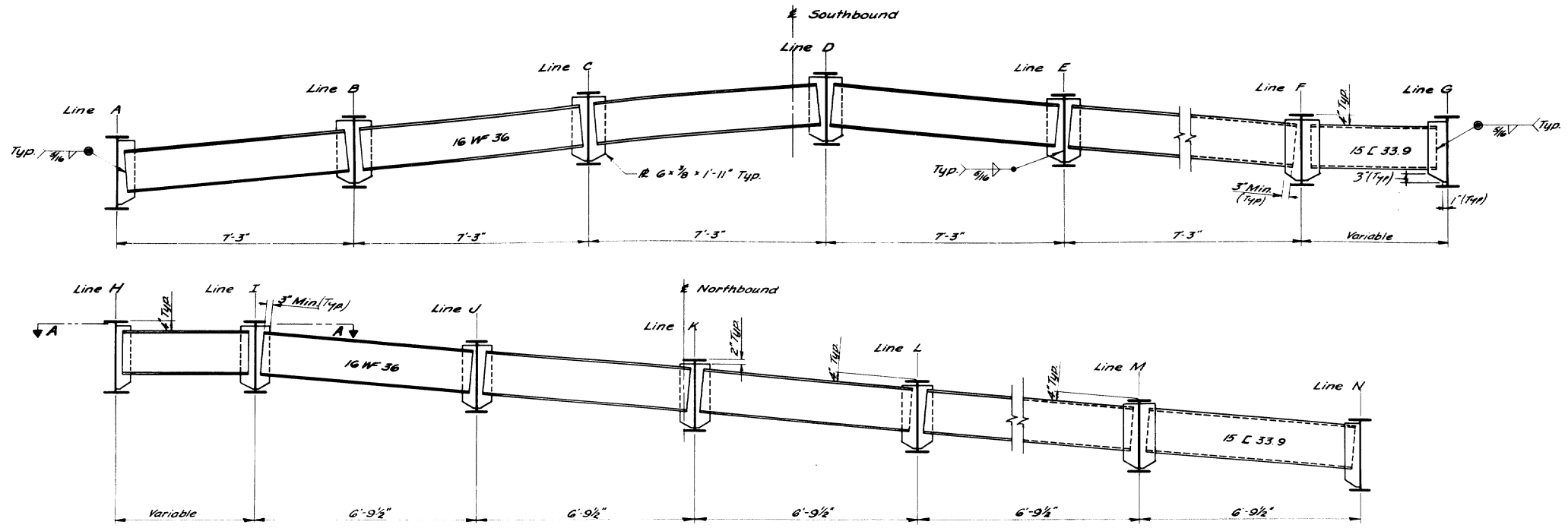
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
STEEL DETAILS

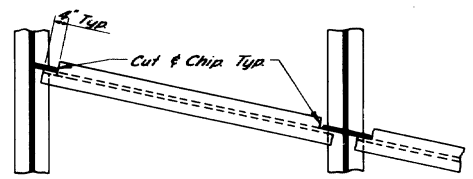
SHEET 73 OF 92 AUGUSTA, MAINE NOV. 1962

C. D. CO. NO. 3768 .8147

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(26)	74	92



DIAPHRAGMS



SECTION A-A

MARK	NUMBER	DESCRIPTION
D1	30	16 WF 36 x 7'-0"
D2	10	15 C 33.9 x 7'-0"
D3	30	16 WF 36 x 6'-6"
D4	10	15 C 33.9 x 6'-6"
D5	1	16 WF 36 x 4'-10"
D6	1	16 WF 36 x 4'-3"
D7	1	16 WF 36 x 4'-4½"
D8	1	16 WF 36 x 4'-8½"
D9	1	15 C 33.9 x 4'-9"
D10	1	15 C 33.9 x 5'-2"
D11	1	16 WF 36 x 5'-0½"
D12	1	16 WF 36 x 5'-6½"
D13	1	16 WF 36 x 5'-4½"
D14	1	16 WF 36 x 5'-11½"
D15	1	15 C 33.9 x 5'-8"
D16	1	15 C 33.9 x 6'-3½"
D17	1	16 WF 36 x 6'-0½"
D18	1	16 WF 36 x 0'-9"
D19	1	16 WF 36 x 6'-5"
D20	1	16 WF 36 x 7'-0½"

DESIGN- V.E. DETAIL- E.E.L.
TRACE- J.W.M.
CHECK- W.W.T.

BRIDGE NO.
SURVEY -
PLOT -

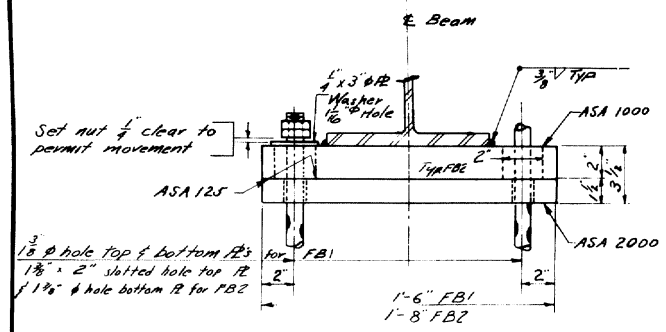
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
STEEL DETAILS

SHEET 74 OF 92 AUGUSTA, MAINE [redacted] 1962

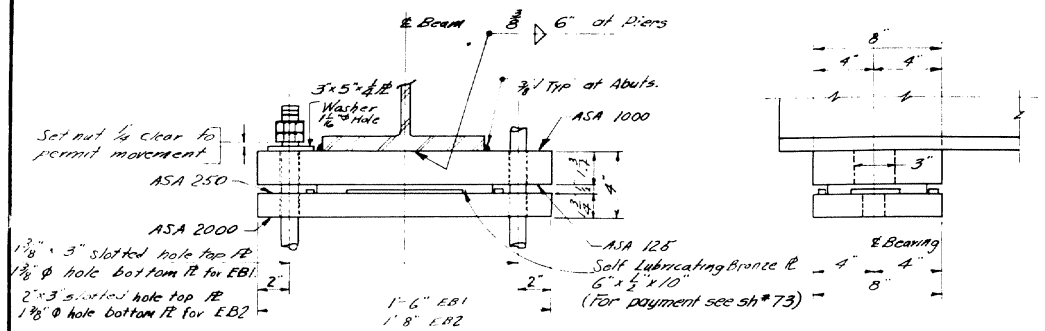
C. S. CO. NO 3788 48767

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-IG-95-6(26)	75	92



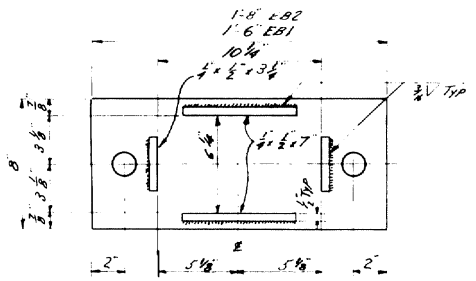
FIXED BEARINGS FB1 & FB2

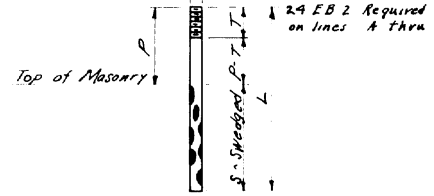
6 FB1 Required @ Abut "2" on lines E thru J
8 FB2 " " " " " " A thru D & K thru N



EXPANSION BEARINGS EB1 & EB2

18 EB1 Required @ Abut "1" & Piers on lines E thru J
24 EB2 Required @ Abut "1" & Piers on lines A thru D & K thru N



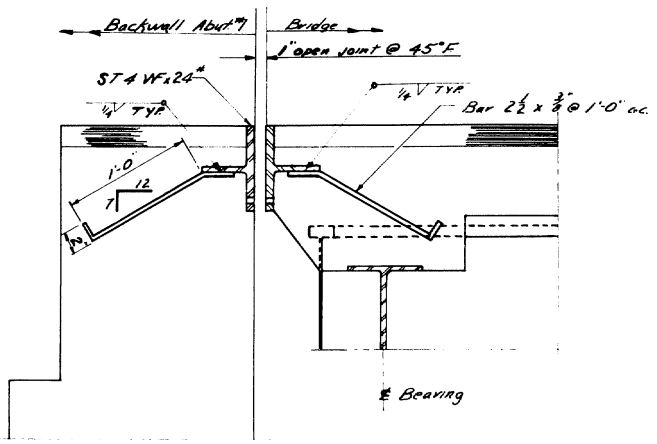


ANCHOR BOLTS						
Bearing	P	T	P-T	S	L	Req'd
EB 1	6 1/2"	2 1/2"	4"	10"	1'-4 1/2"	36
EB 2	6 1/2"	2 1/2"	4"	10"	1'-4 1/2"	48
FB 1	6"	2 1/2"	3 1/2"	10"	1'-4"	12
FB 2	6"	2 1/2"	3 1/2"	10"	1'-4"	16

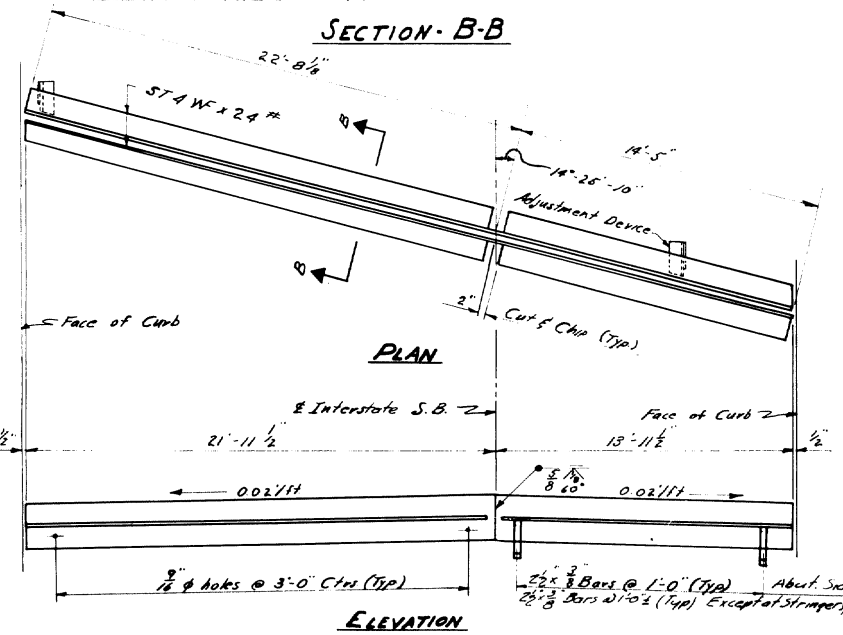
MASONRY PLATE For EB1 & EB2

Note: Set anchor bolts in center of holes in bearing plates at mean of temperature range.

Caulk around edges of masonry plates with an approved caulking material. Payment for this work shall be incidental to the contract items

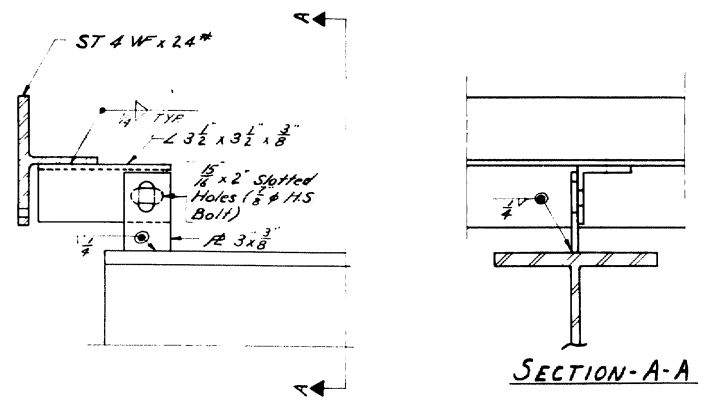


SECTION-B-B



PLAN

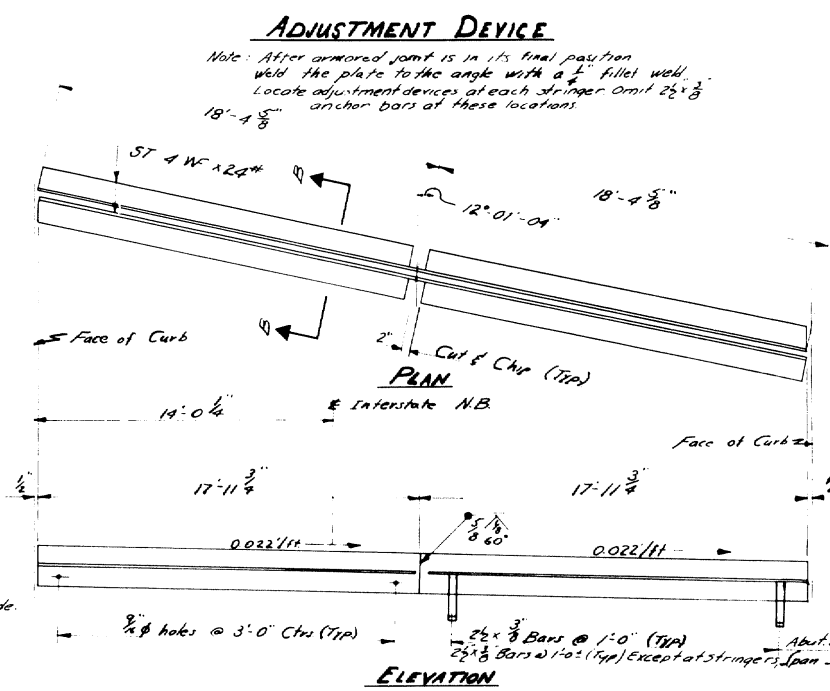
ELEVATION



SECTION-A-A

ADJUSTMENT DEVICE

Note: After armored joint is in its final position weld the plate to the angle with a 1/4" fillet weld. Locate adjustment devices at each stringer. Omit 2 1/2 x 3/8 anchor bars at these locations.

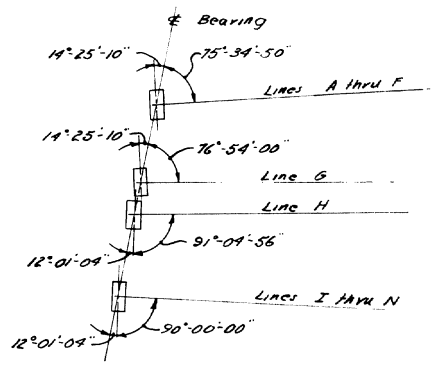


PLAN

ELEVATION

ARMORED JOINT

1-Regid Northbound & 1-Regid Southbound (Abut "1")



TYPICAL PLACEMENT OF BEARINGS

DESIGN- R. O. G.	BRIDGE NO.
TRACE- N. E. B.	SURVEY-
CHECK- K.W.J.	PLOT-

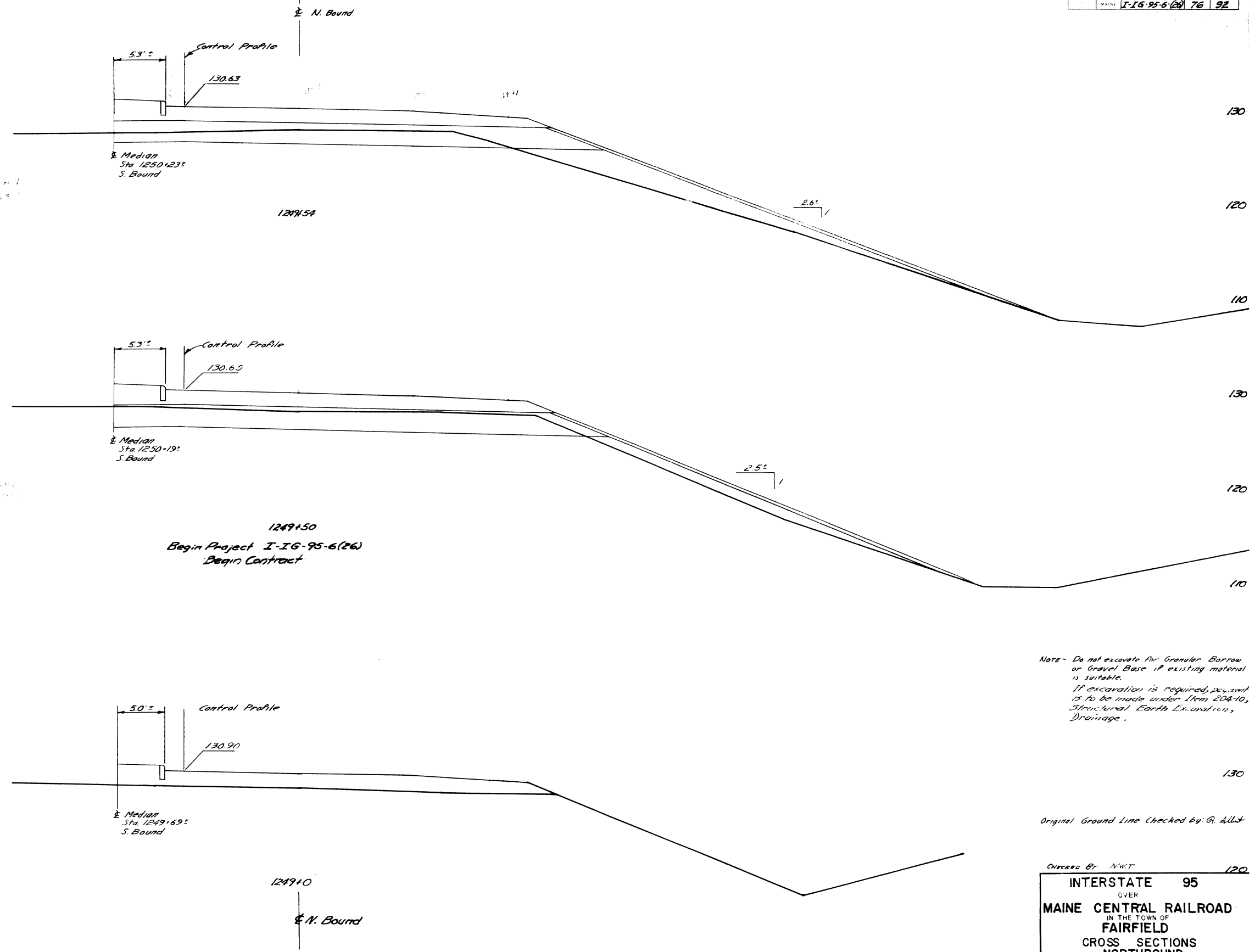
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY
STEEL DETAILS

SHEET 75 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO 3788 49147

STATE	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
	MAINE	I-IG-95-6(26)	76	92



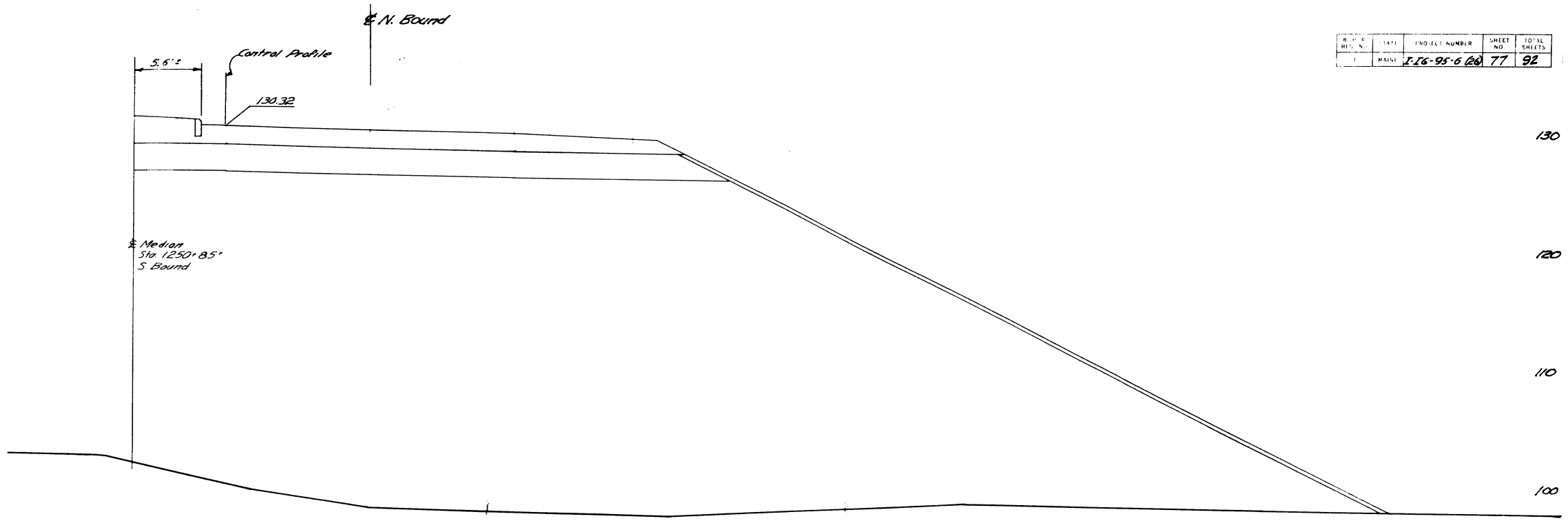
NOTE- Do not excavate for Granular Borrow or Gravel Base if existing material is suitable.
If excavation is required, payment is to be made under Item 204.10, Structural Earth Excavation, Drainage.

Original Ground Line Checked by: G. Allott

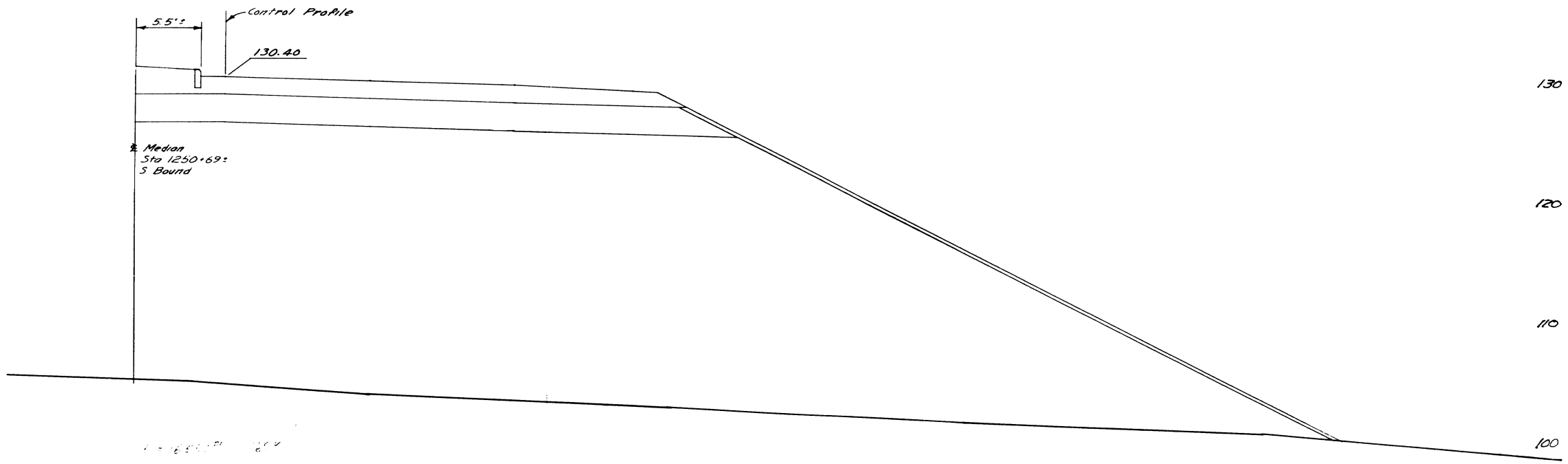
CHECKED BY: N.W.T.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
NORTHBOUND
SHEET 76 OF [redacted] SHEETS MAINE, Nov. 1962

REGION	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(26)	77	92



1250+16



1250+0

℄ N. Bound

Original Ground Line checked by: G. Lilot

Checked By: N.W.T.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
NORTH BOUND
SHEET 77 OF 92 SHEETS MAINE Nov. 1962

			SHEET NO.	TOTAL SHEETS
		I-16-95-6(24)	78	92

M.C.R.R. O-Pass

℄ N. Bound

6.0'±

Control Profile

130.15

130

120

110

100

℄ Median
Sta 1251+19±
S Bound

Original Ground Line Checked by: [illegible]

Checked St. N.W.T.

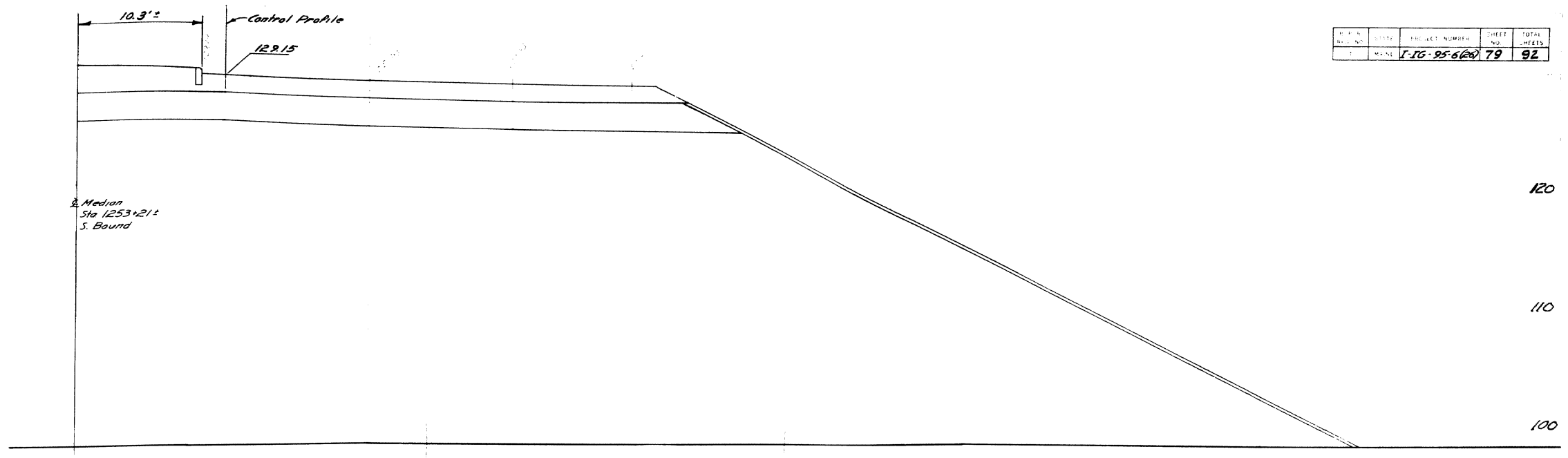
E=2257±

1250+50

℄ N. Bound

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
NORTH BOUND
SHEET 78 OF 92 [illegible] 1962

F.A.P. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
I	MAINE	I-IG-95-6(20)	79	92



1252+50

M.C.R.R. O-Pass

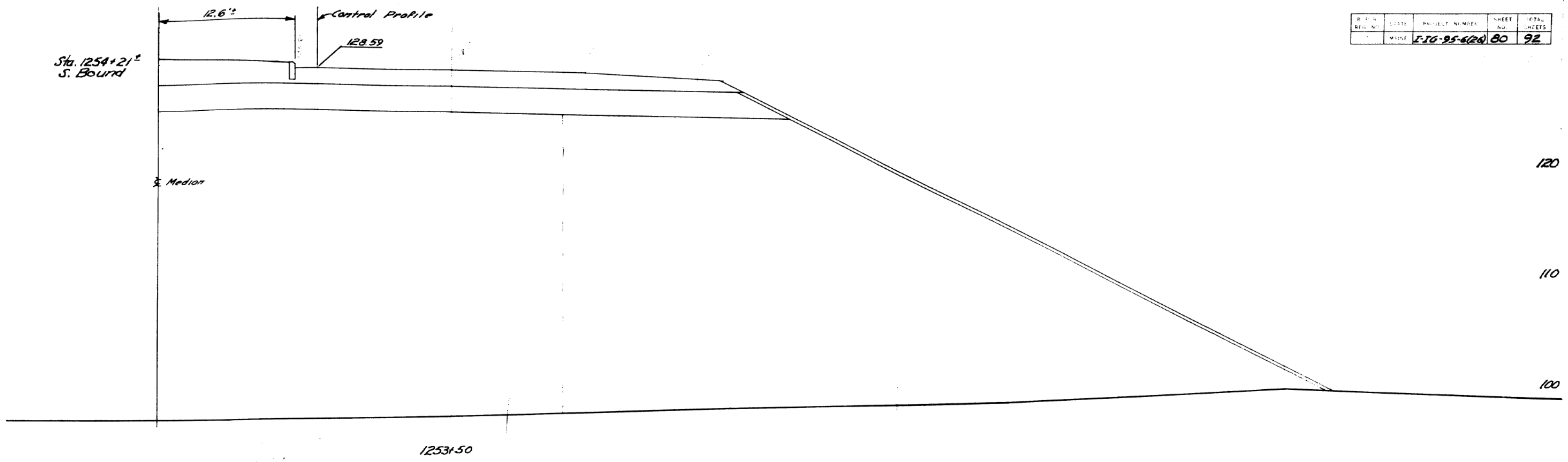
℄ N. Bound

Original Ground Line Checked by: R. Elliott

Checked By: N.W.T.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
NORTHBOUND
SHEET 79 OF 92 [redacted] Nov. 1962

STATE	DIST.	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	MAINE	I-IG-95-6(28)	80	92

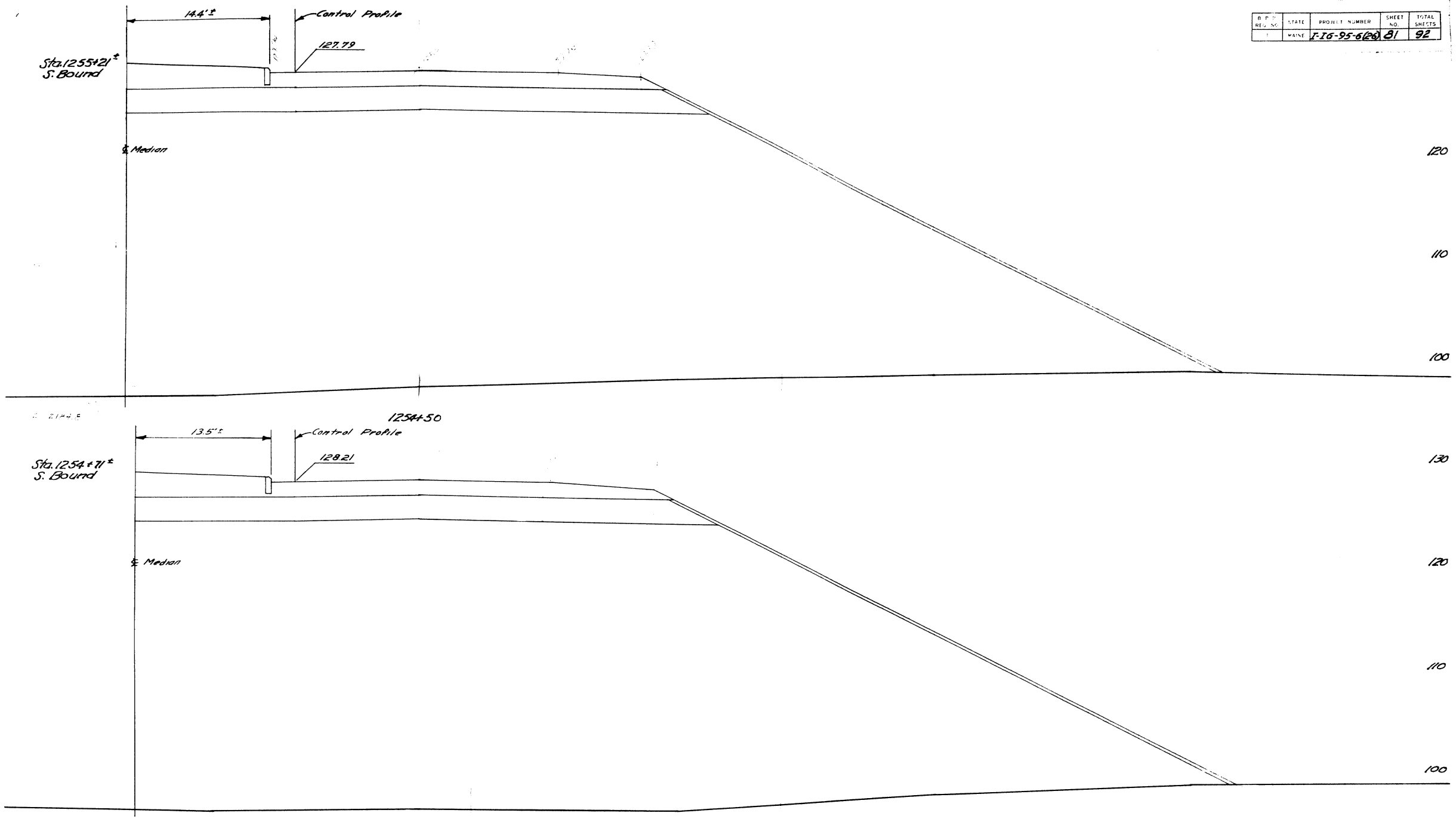


Original Ground Line Checked by R. A. L. S.

Checked By N.W.S.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
NORTHBOUND
SHEET 80 OF 92 SHEETS Nov. 1962

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-16-95-6(20)	81	92



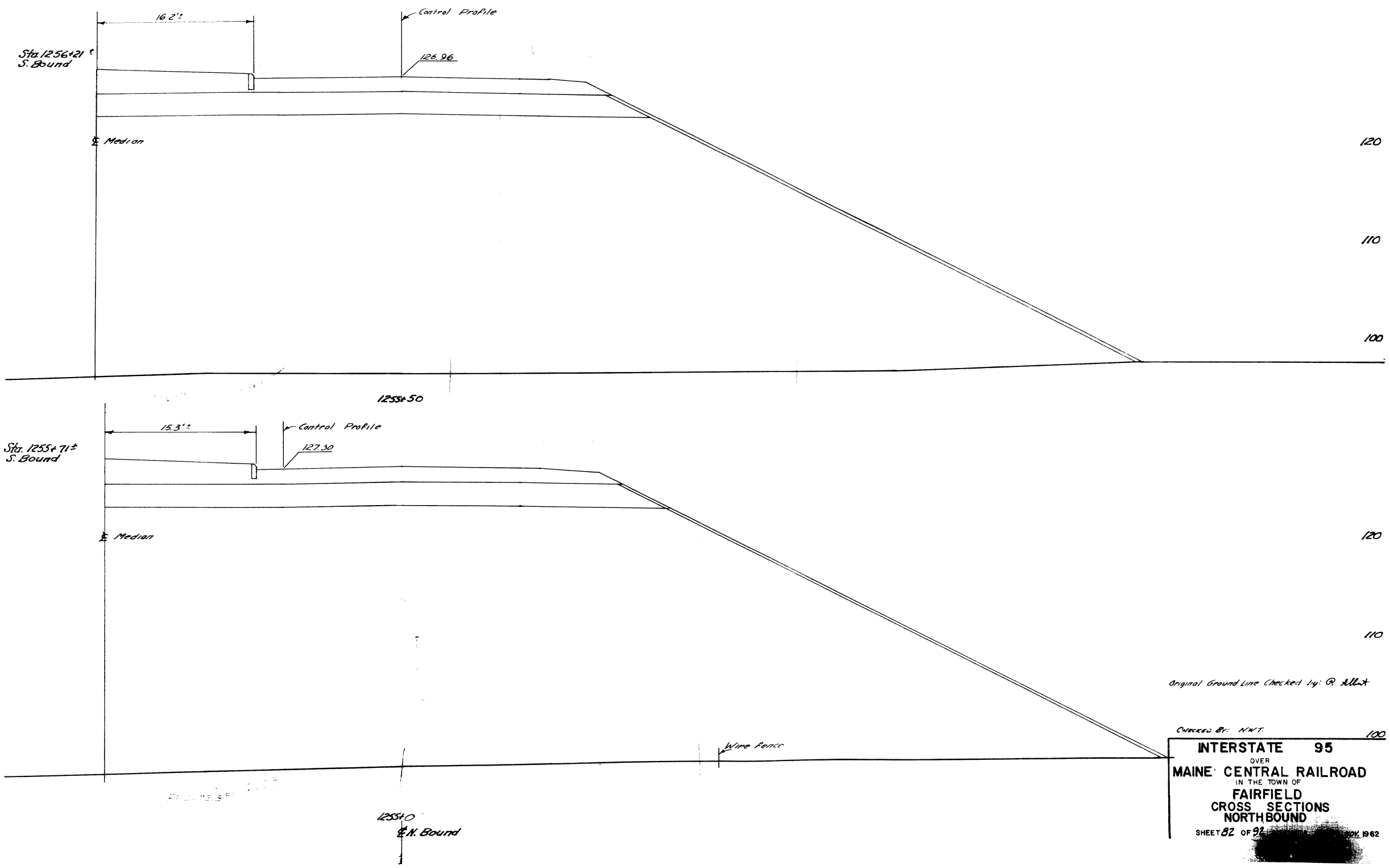
Original Ground Line Checked by: G. R. [illegible]

CHECKED BY N.W.T.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
NORTHBOUND
SHEET 81 OF 92 SHEETS MAINE NOV. 1962

H. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-IG-95-6(26)	82	92

℄ N. Bound

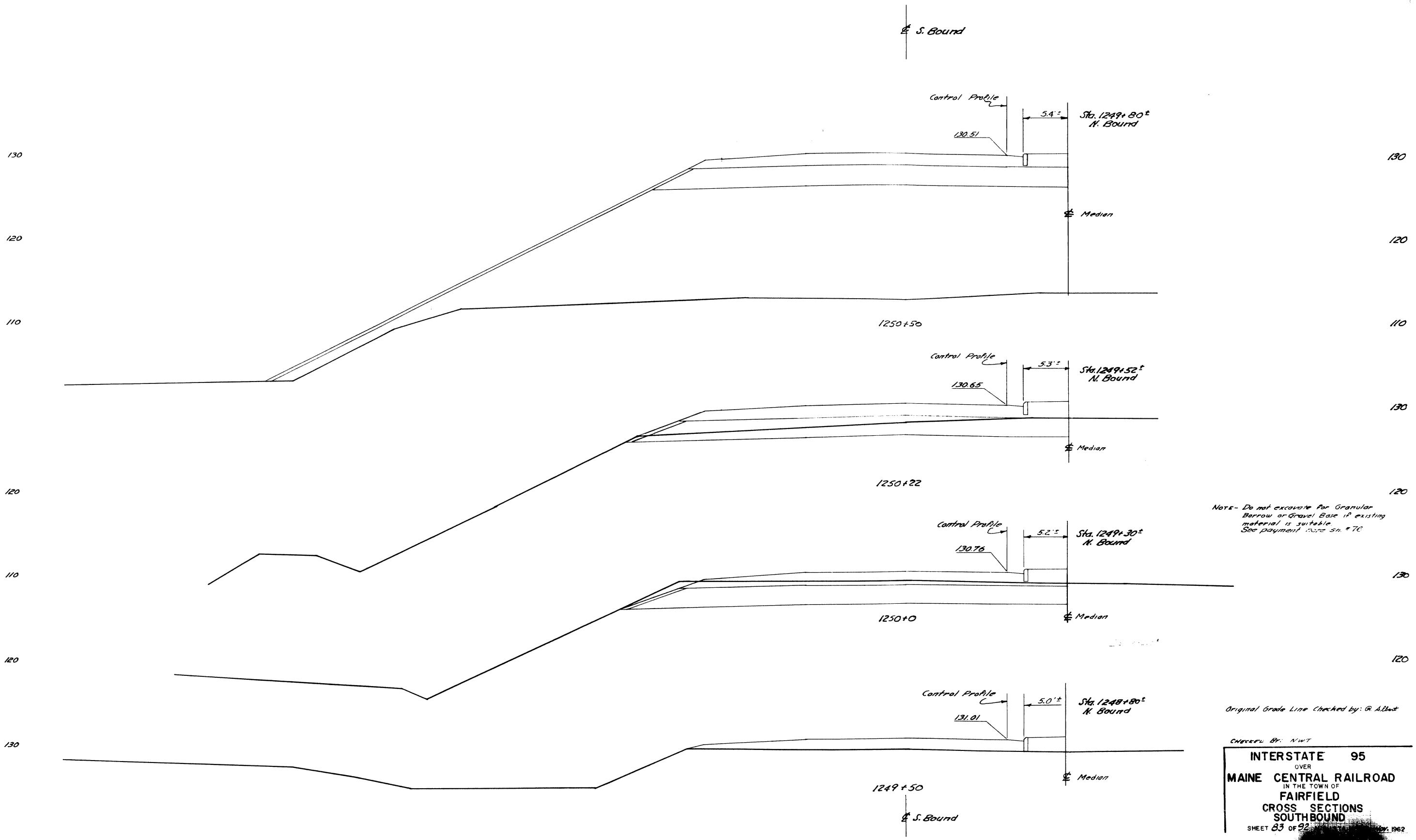


Original Ground Line Checked by: R. Allen

CHECKED BY: NWT

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
NORTHBOUND
SHEET 82 OF 92 [redacted] NOV. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(6)0	83	92



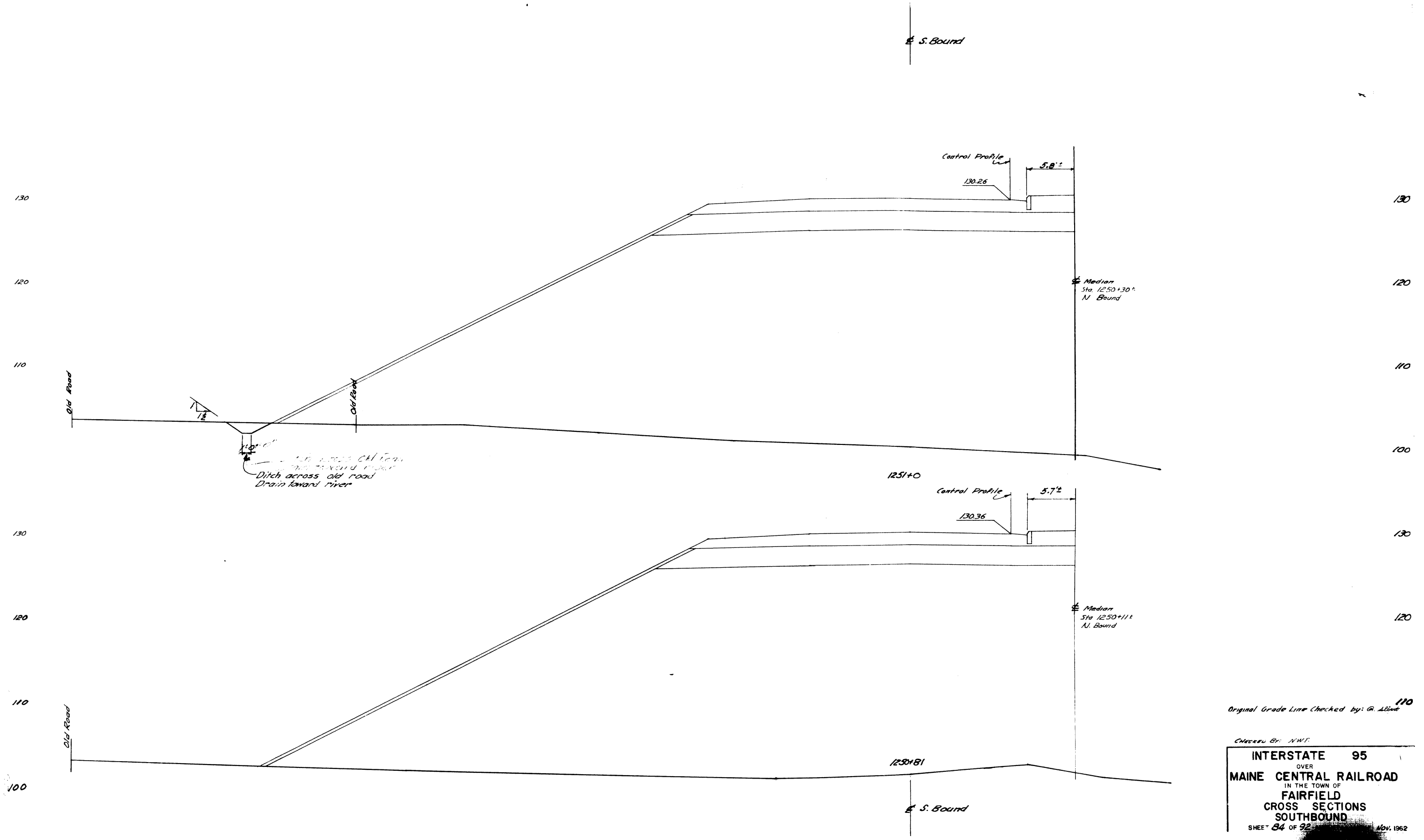
Note- Do not excavate for Granular Borrow or Gravel Base if existing material is suitable. See payment note Sh. # 7C

Original Grade Line Checked by: R. S. Blust

CHECKED BY: NWT

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
SOUTH BOUND
SHEET 83 OF 92 [redacted] 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-IG-95-6(126)	84	92



Original Grade Line Checked by: G. Lloyd

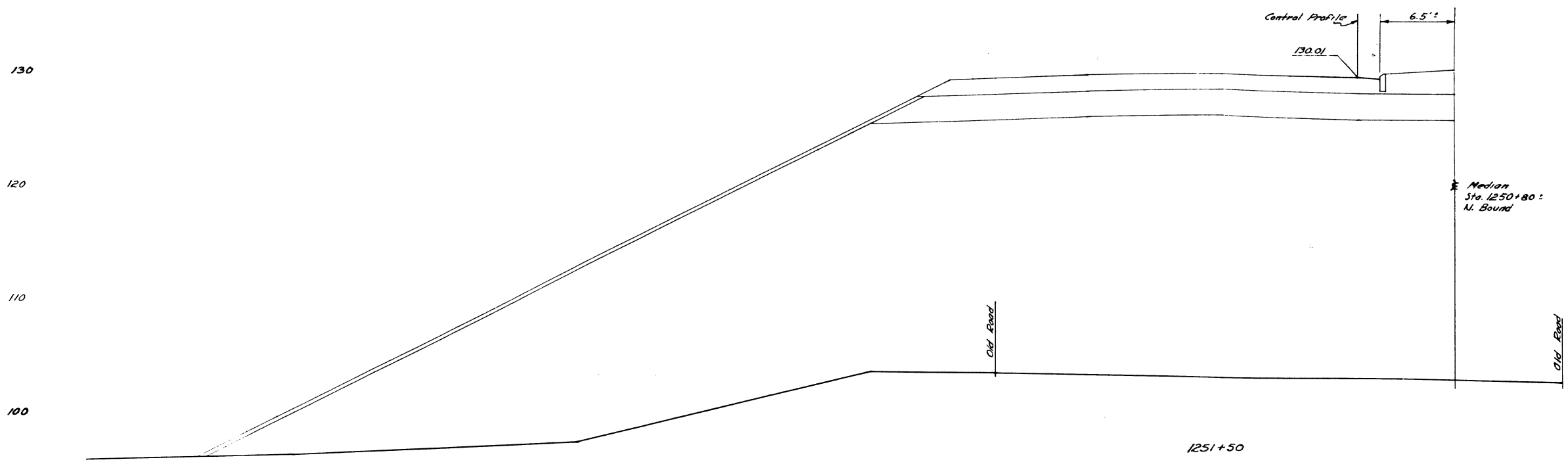
Checked By: N.W.T.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
SOUTHBOUND
SHEET 84 OF 92 Nov. 1962

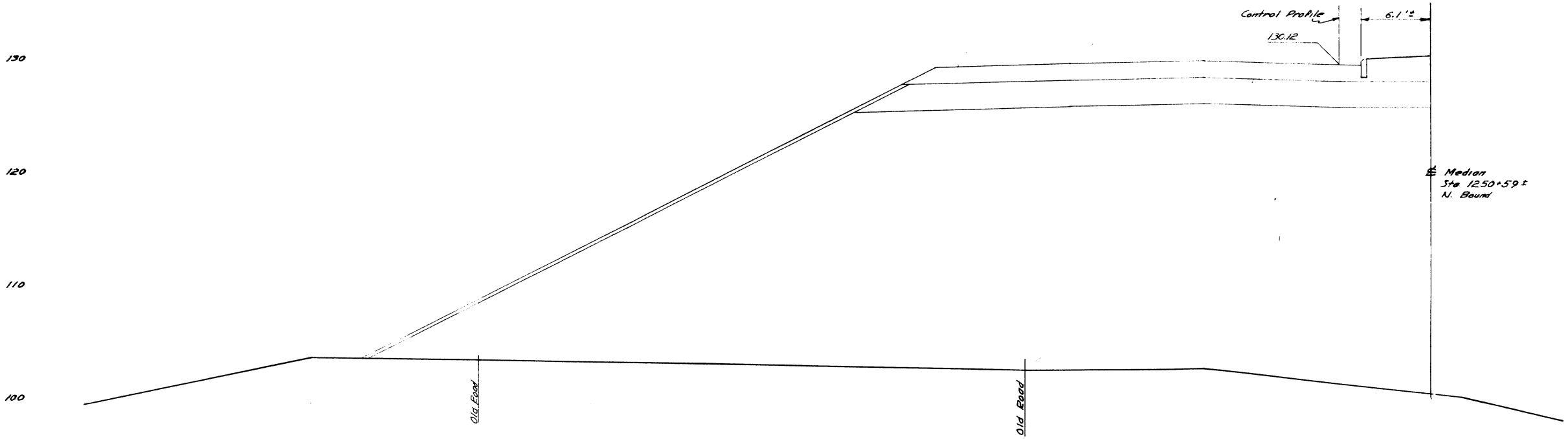
R. P. R. I. I. S. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(26)	85	92

MCRR O-Pass

℄ S. Bound



1251+50



1251+29

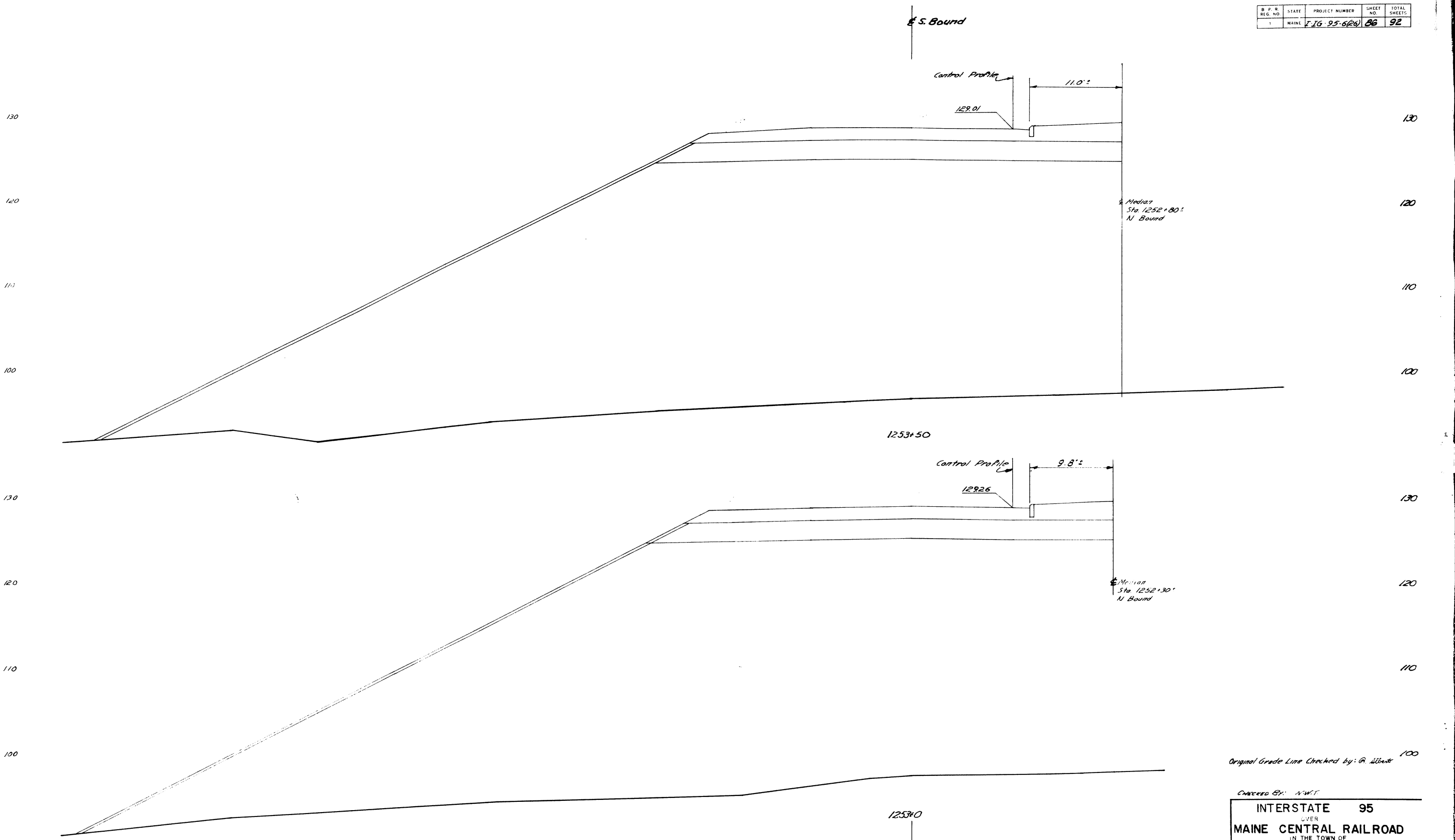
℄ S. Bound

Original Grade Line Checked by: G. Allard

Checked By: N.W.F.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
SOUTHBOUND
SHEET 85 OF 92 [redacted] 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I IG-95-6(24)	86	92

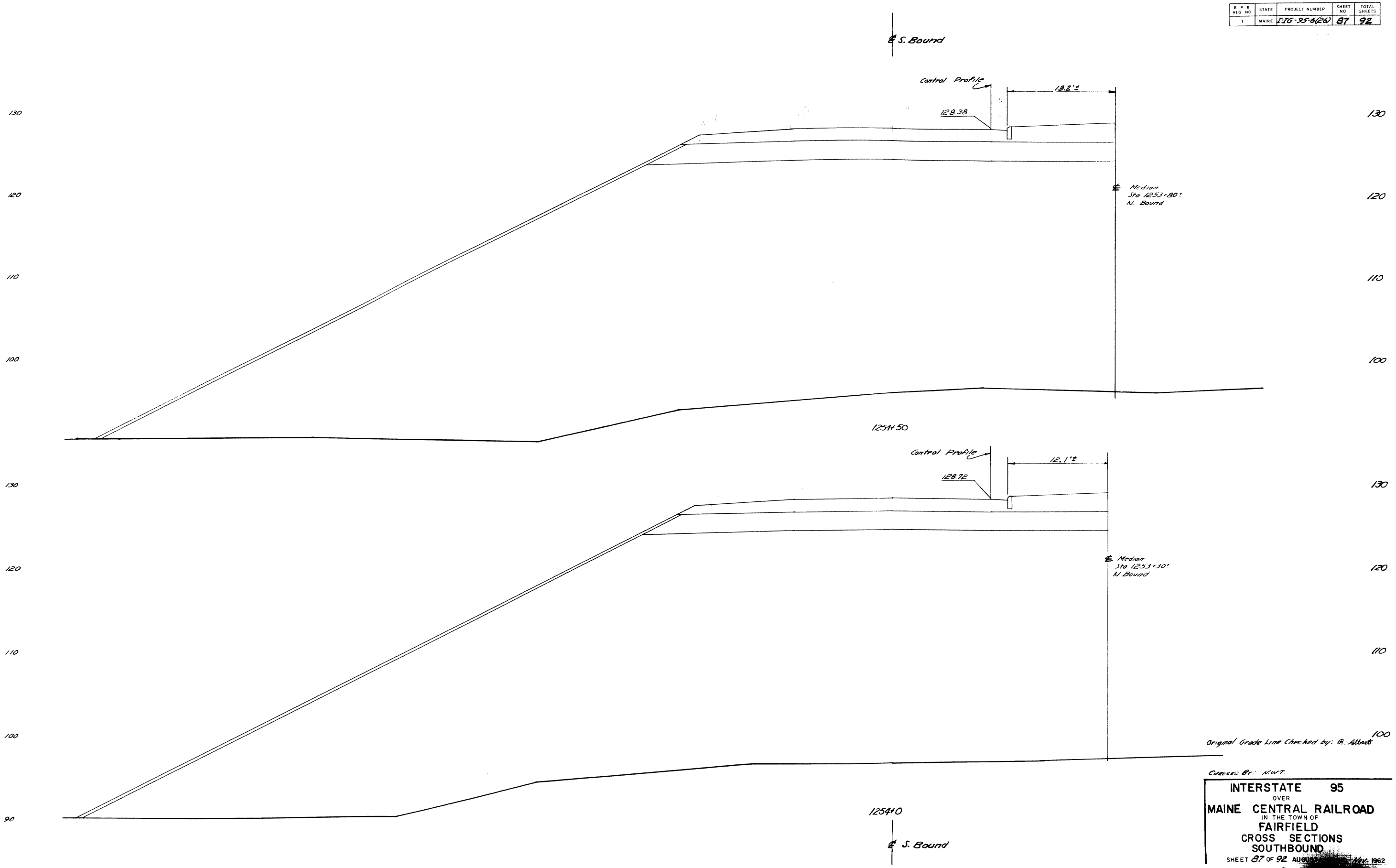


Original Grade Line Checked by: R. Silbert

CHECKED BY: N.W.T.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
SOUTHBOUND
SHEET 86 OF 92 AUGU[redacted]4, 1962

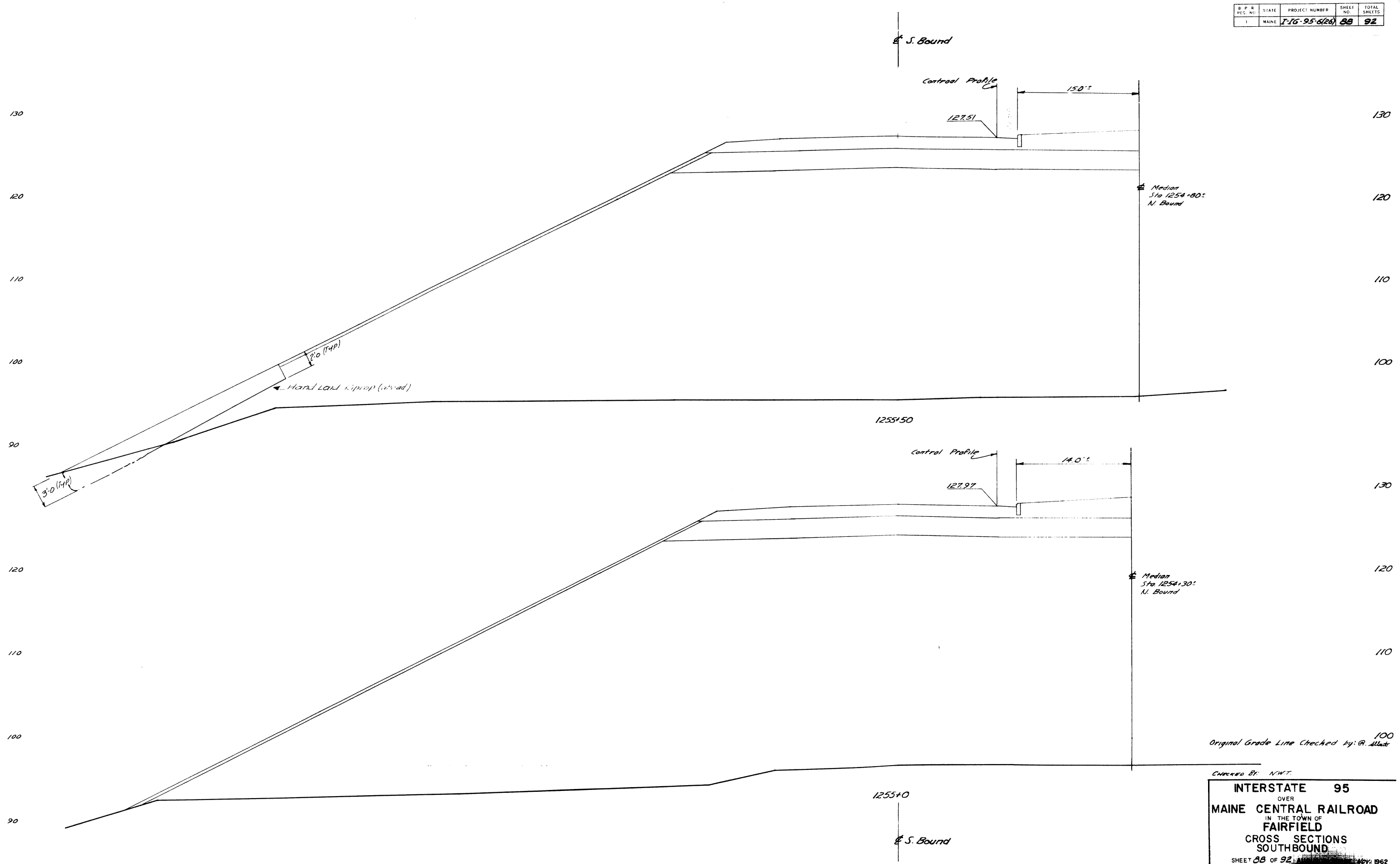
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-16-95-6(26)	87	92



CHECKED BY: N.W.T.

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
SOUTHBOUND
SHEET 87 OF 92 AUGUST [redacted] 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-IG-95-8(26)	88	92

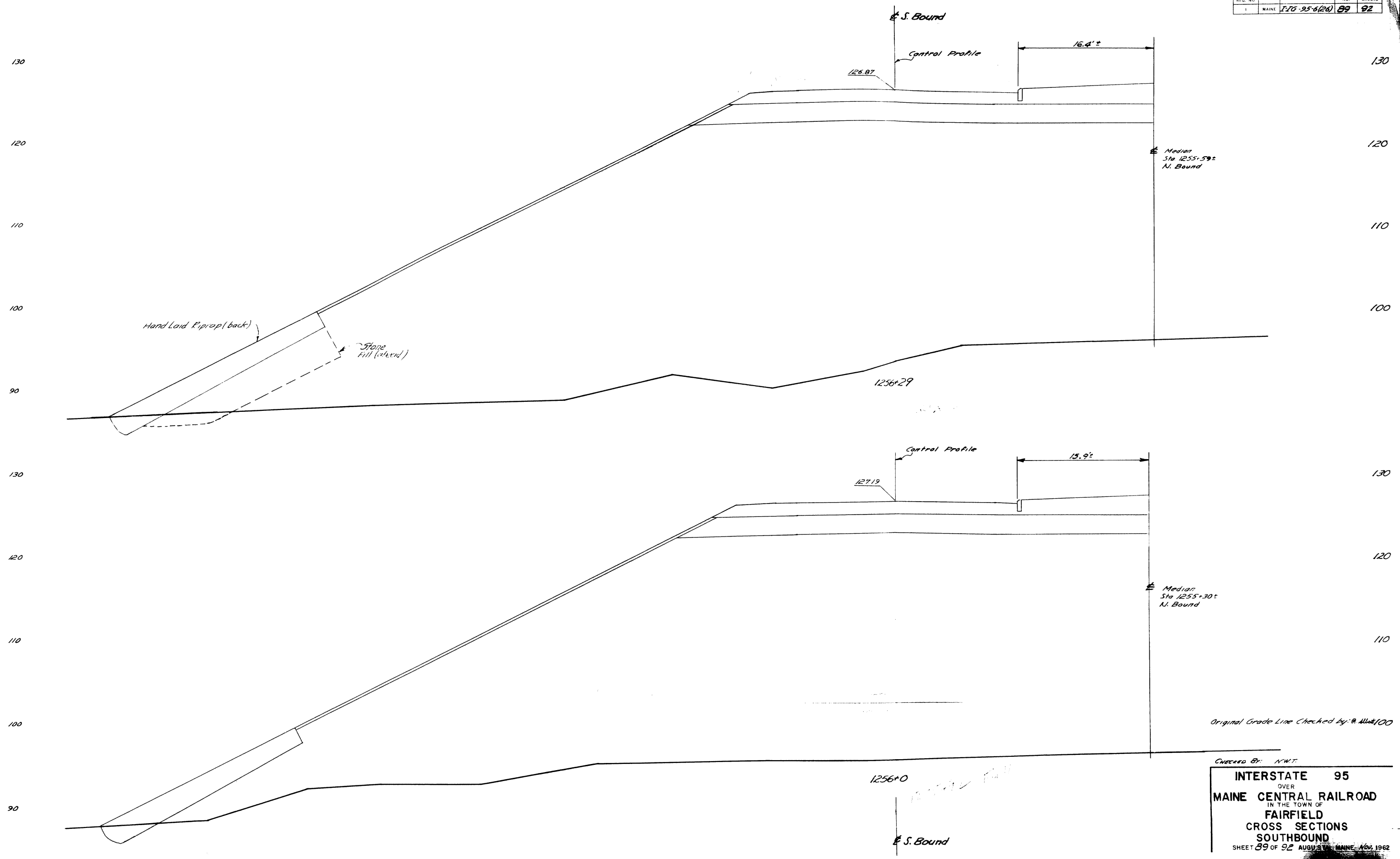


Original Grade Line Checked by: G. Allard

Checked By: N.W.T.

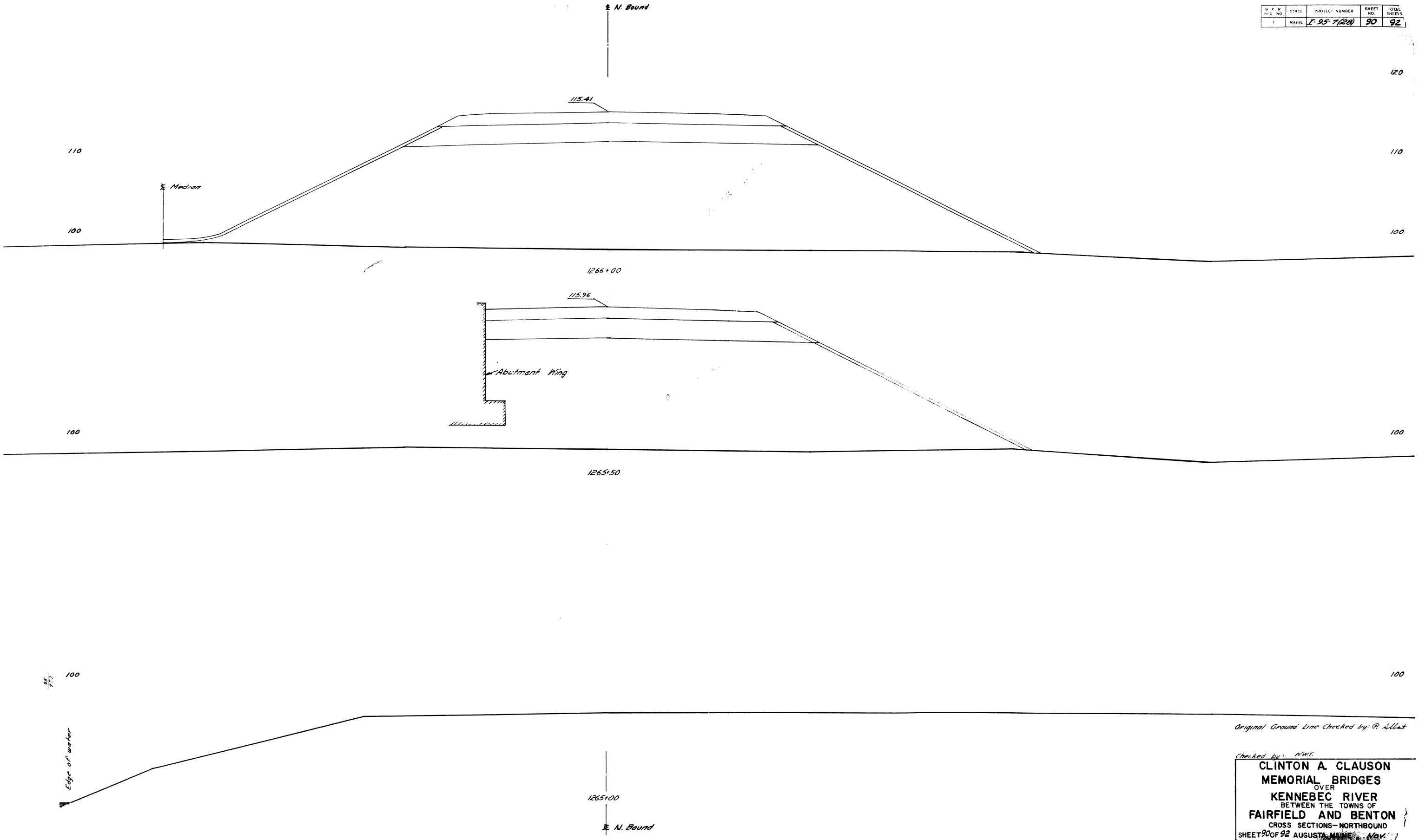
INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
SOUTHBOUND
SHEET 88 OF 92 [redacted] NOV. 1962

P. E. N. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-IG-95-6(26)	89	92



INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
CROSS SECTIONS
SOUTHBOUND
SHEET 89 OF 92 AUGUSTA, MAINE, Nov. 1962

B. P. R. HIG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	90	92



Original Ground Line Checked by: R. L. Hart

Checked by: NWT

CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
CROSS SECTIONS—NORTHBOUND
SHEET 90 OF 92 AUGUSTA, MAINE NOV.

R.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	91	92

113.52

110 110

℄ Median

100 100

1268+00

113.84

110 110

℄ Median

100 100

1267+50

114.31

110 110

℄ Median

100 100

Embankment By Others

1267+00

End of Project I-95-7(28) End of Contract

114.86

110 110

℄ Median

100 100

Embankment By Others

Embankment By Others

1266+50

℄ N. Bound

Original Ground Checked by: G. A. C.

Checked by: N.W.T.

CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
CROSS SECTIONS—NORTHBOUND
SHEET 91 OF 92 AUGUSTA, MAINE NOV. 1962

			SHEET NO.	TOTAL SHEETS
	MAINE	I-95-7(28)	92	92

℄ S. Bound

113.44

110

100

℄ Median

Embankment By Others

1268+50

End of Project I-95-7(28) End of Contract

113.99

110

100

℄ Median

Embankment By Others

1268+00

114.54

110

100

℄ Median

1267+50

115.09

90

Face of wing 2

100

℄ Median

Original Ground Line Checked by: R. Allen

Checked by: N.W.T.

1267+00

90

℄ S. Bound

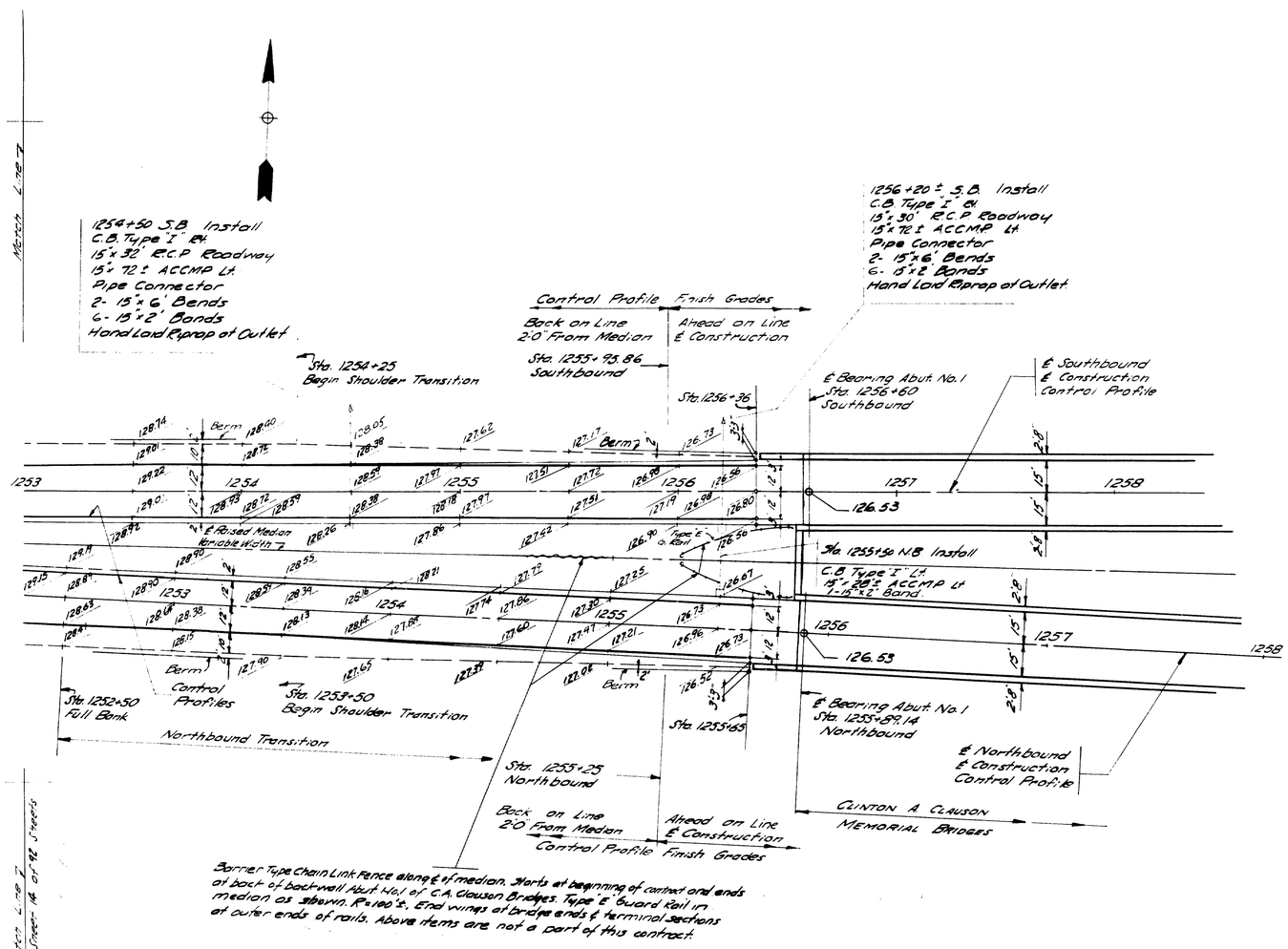
CLINTON A. CLAUSON MEMORIAL BRIDGES OVER KENNEBEC RIVER BETWEEN THE TOWNS OF FAIRFIELD AND BENTON

CROSS SECTIONS—SOUTHBOUND

SHEET 92 OF 92 AUGUSTA, MAINE Nov. 1962

[redacted]

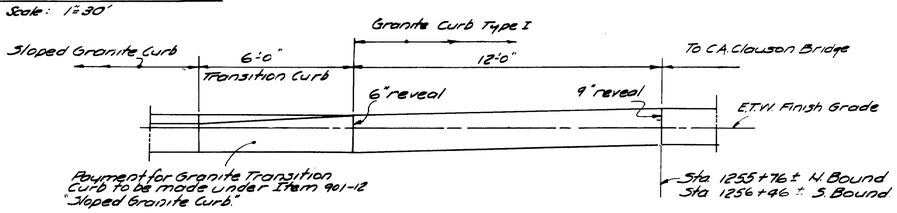
S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	15	92



FINISH GRADES

PLAN OF WESTERLY APPROACH

Scale: 1=30'



FACE VIEW

GRANITE TRANSITION CURB AT MEDIAN

Northbound Shown - Southbound Opp. Hand

DESIGN– RLB TRACE– GWH CHECK– NWT	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

FINISH GRADES – PLAN OF WESTERLY APPROACH

SHEET 15 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO. 3788 28787

U. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	MAINE	BR-95-7(28)	16	92

1056' ± c. Bearings

Elevation - Upstream Face

Scale: 1" = 4'

Elevation - Downstream Face

Scale: 1" = 4'

Section - Abut. "B"

Scale: 1" = 4'

Section - Abut. "C"

Scale: 1" = 4'

Note:
For Details of Abutment Piers
See Sheets 8 & 9.

Plan of Piers
Scale: 1" = 4'

Approved:
Director of Highways

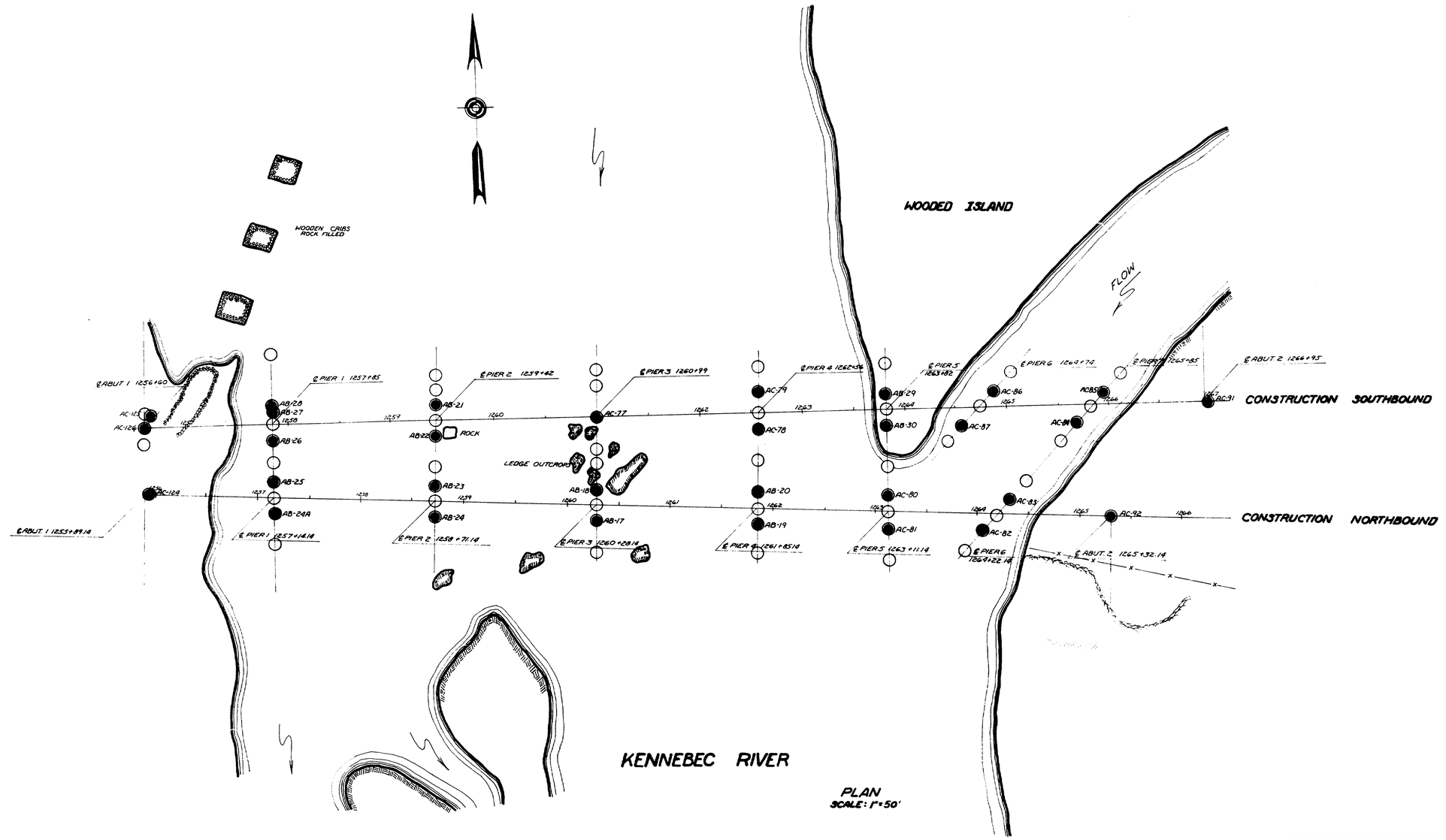
Approved:
Bureau of Public Roads

Approved:
Chief Engineer

CLINTON A. PLAUD'N
MEMORIAL BRIDGE
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
GENERAL PLAN AND ELEVATION
SHEET 16 OF 92 AUGUST [illegible] NOV. 1960

0 1 2 3 4 5 INCHES

R. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1-28	17	92



PLAN
SCALE: 1"=50'

DESIGN– TRACE– CHECK– } Soils Division	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

BORING PLAN

SHEET 17 OF 92 AUGUSTA, MAINE JULY, 1962

K-E 188 IMPERIAL B. L. M. INC.

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	18	92

ELEVATION

SOUTHBOUND

ABUTMENT 1 AC-126
BROWN SILT
LOOSE BROWN SILTY SAND
DENSE GRAY SILTY GRAVEL
℄ PIER 1
℄ PIER 2
BROWN GRAVEL
LOOSE GRAY SANDY SILT WITH SAND AND CLAY LAYERS
℄ PIER 3
℄ PIER 4
MEDIUM DENSITY GRAY SILTY SAND AND GRAVEL
FRACTURED BEDROCK OR A BOULDER
℄ PIER 5
LOOSE BROWN FINE SAND
MEDIUM DENSITY SANDY GRAVEL
℄ PIER 6
MEDIUM DENSITY BROWN SILTY SAND AND GRAVEL
ABUTMENT 2 AC-91
LOOSE BROWN FINE SAND BECOMES VERY FINE AND SILTY WITH DEPTH
STONES
MEDIUM DENSITY TO DENSE GRAY SILT SAND AND GRAVEL
VERY DENSE GRAY SILT SAND AND GRAVEL

NORTHBOUND

ABUTMENT 1 AC-124
BROWN SAND AND GRAVEL FILL OF DECK
℄ PIER 1
GRAY SILTY SAND AND GRAVEL
LOOSE GRAY LAYERS OF SAND SILT AND CLAY
MEDIUM DENSITY GRAY GRAVELLY SANDY SILT
℄ PIER 2
℄ PIER 3
LOOSE BROWN GRAVEL
℄ PIER 4
℄ PIER 5
BROWN GRAVEL
MEDIUM DENSITY GRAY SILT SAND AND GRAVEL
℄ PIER 6
ABUTMENT 2 AC-92
LOOSE BROWN FINE SAND
BROKEN ROCK

95 90 85 80 75 70 65 60 55

1256 1257 1260 1261 1263 1265 1266 1267

SCALE 1"=50' HORIZ.
1"=5' VERT.

DESIGN- TRACE- CHECK- Dallas Swanson
BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

BORING PLAN

SHEET 18 OF 92 AUGUSTA, MAINE JULY, 1962

K+E 184 IMPERIAL

B. L. M., INC.

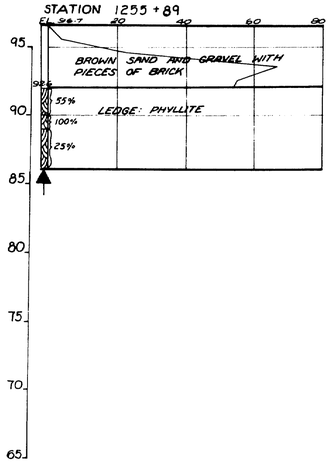
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	19	92

DRIVING RESISTANCE
BLOWS / FOOT

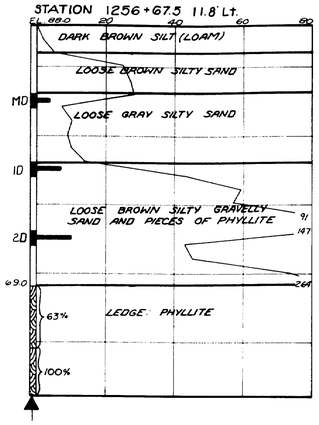
ELEVATION

BORING AC-124
STATION 1255 + 89

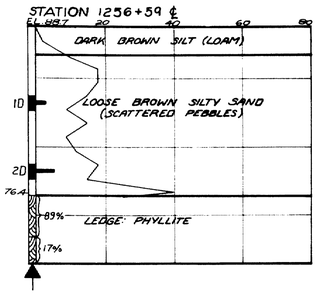


ABUTMENT NO. 1 N&S

BORING AC-125
STATION 1256 + 67.5 11.8' Lt.

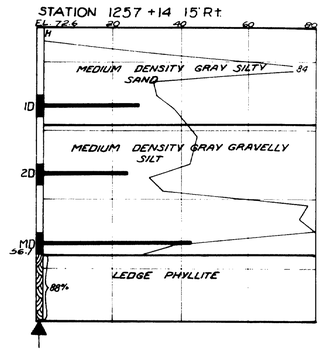


BORING AC-126
STATION 1256 + 59 ℄



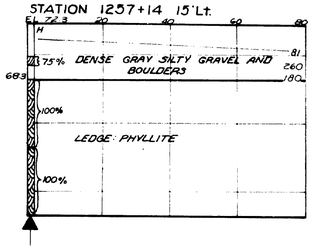
PIER NO. 1 N.B.

BORING AB-24A
STATION 1257 + 14 15' Rt.



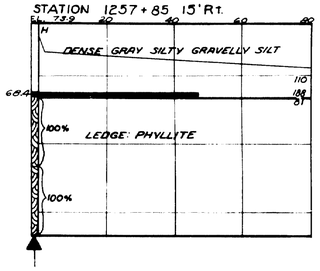
PIER NO. 1 S.B.

BORING AB-25
STATION 1257 + 14 15' Lt.



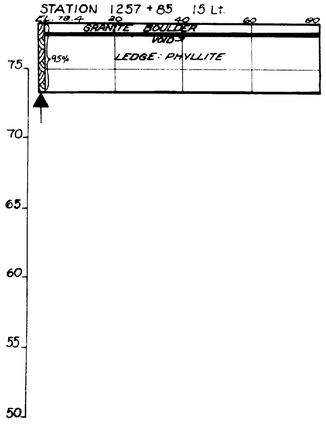
PIER NO. 1 S.B.

BORING AB-26
STATION 1257 + 85 15' Rt.

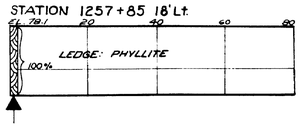


PIER NO. 1 S.B.

BORING AB-27
STATION 1257 + 85 15 Lt.

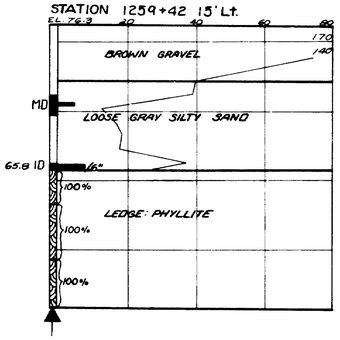


BORING AB-28
STATION 1257 + 85 18' Lt.

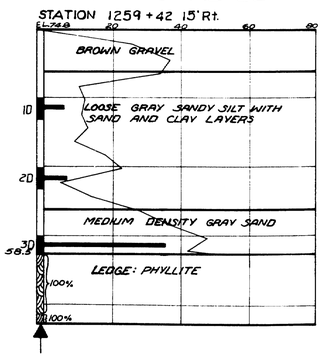


PIER NO. 2 S.B.

BORING AB-21
STATION 1259 + 42 15' Lt.



BORING AB-22
STATION 1259 + 42 15' Rt.



BORING NOTES

ALL SAMPLES AND VANES ARE MADE AHEAD OF CASING
N — NUMBER OF BLOWS REQUIRED TO DRIVE EXTRA HEAVY CASING ONE FOOT WITH 400 ft lbs. OF ENERGY PER BLOW
— LOCATION OF SAMPLE OR SAMPLE ATTEMPT
NUMBER AND TYPE OF DRY SAMPLE
ID — 3 & H SAMPLER # 1290-S
IC — 2" O.D. 16ga SEAMLESS TUBING
MD — UNSUCCESSFUL SAMPLE ATTEMPT AND TYPE OF SAMPLE
— NUMBER OF BLOWS REQUIRED TO DRIVE SPOON OR TUBING ONE FOOT WITH 350 ft lbs. OF ENERGY PER BLOW
H — SAMPLING SPOON OR SEAMLESS TUBING DRIVEN BY STATIC WEIGHT OF DRILL RODS AND HAMMER
— FIELD VANE TEST
— BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
— LOCATION CORED BY DIAMOND BIT AND PER CENT
71% — RECOVERY OF ROCK

DESIGN— TRACE— CHECK— Soils Division

BRIDGE NO.
SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

BORING DETAILS

SHEET 19 OF 92 AUGUSTA, MAINE JULY, 1962

C. B. CO., NO. 3788 #8797

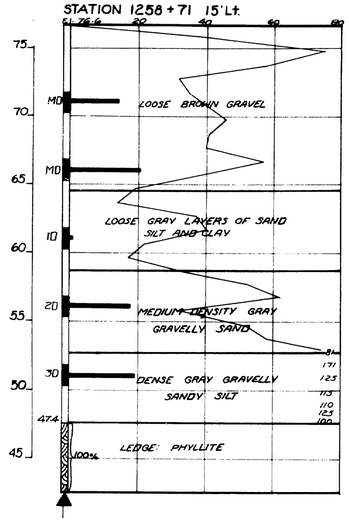
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	20	92

ELEVATION

PIER NO. 2 N.B.

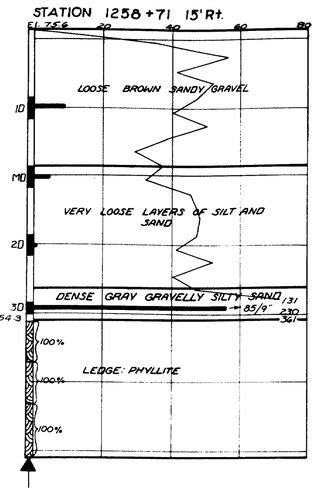
BORING AB-23

STATION 1258+71 15'Lt.



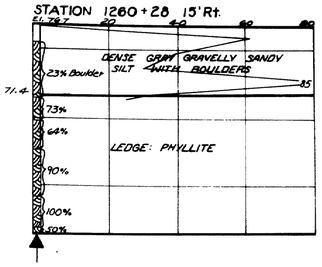
BORING AB-24

STATION 1258+71 15'Rt.



BORING AB-17

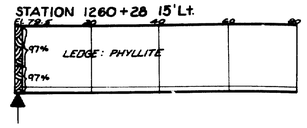
STATION 1260+28 15'Rt.



PIER NO. 3 N&S

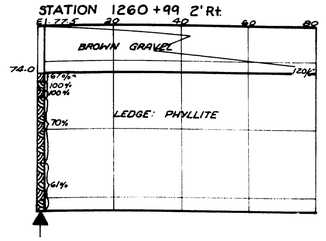
BORING AB-18

STATION 1260+28 15'Lt.



BORING AC-77

STATION 1260+99 2'Rt.

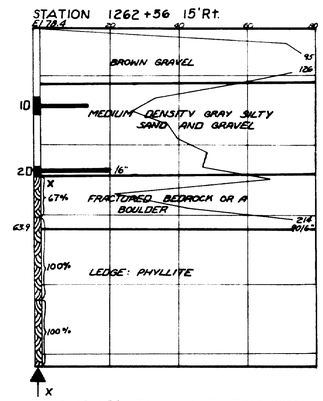


DRIVING RESISTANCE
BLOWS / FOOT

PIER NO. 4 S.B.

BORING AC-78

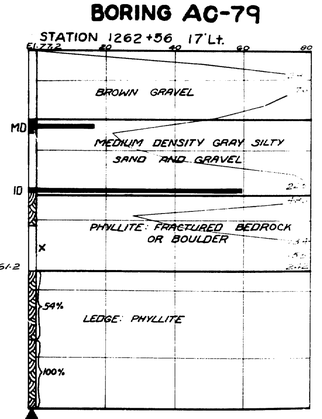
STATION 1262+56 15'Rt.



X CORE DRILLED TOOK SAMPLE FROM 10'6" TO 13'-6" BROKE THROUGH FOR ABOUT 6" DYNAMITED HOLE DROVE 2½" CASING TO 14'6"

BORING AC-79

STATION 1262+56 17'Lt.

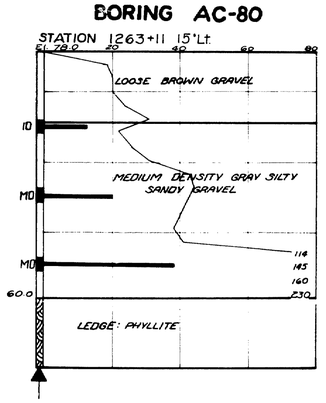


X CORE DRILLED TOOK SAMPLE FROM 10'3" TO 12'9" BROKE THROUGH FOR ABOUT 6" DYNAMITED HOLE DROVE 2½ CASING TO 15' BENT CASING PULLED CASING AND MOVED RIG ABOUT 2' DROVE 2½" CASING TO 16'

PIER NO. 5 N.B.

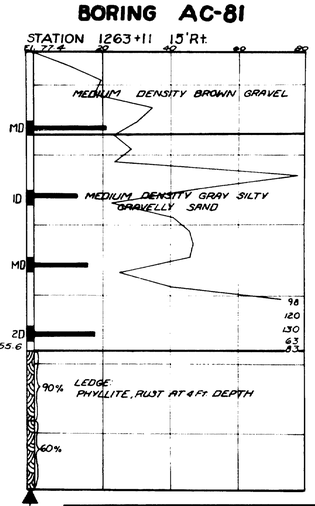
BORING AC-80

STATION 1263+11 15'Lt.



BORING AC-81

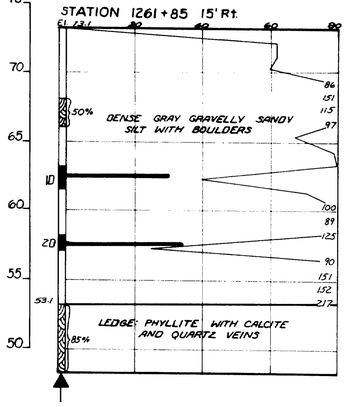
STATION 1263+11 15'Rt.



PIER NO. 4 N.B.

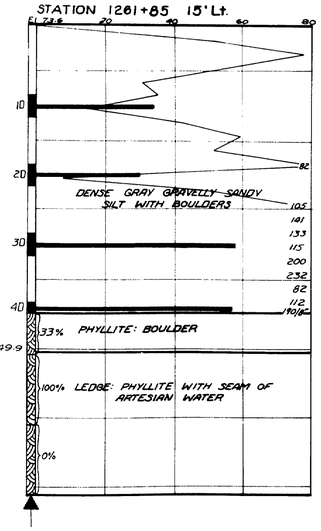
BORING AB-19

STATION 1261+85 15'Rt.



BORING AB-20

STATION 1261+85 15'Lt.



DESIGN– TRACE– CHECK–	Soils Division	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

BORING DETAILS

SHEET 20 OF 92 AUGUSTA, MAINE JULY, 1962

C. H. CO., NO 3798 88167

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	21	92

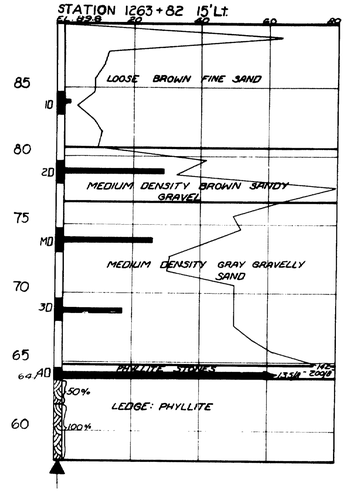
DRIVING RESISTANCE

ELEVATION

PIER NO. 5 S.B.

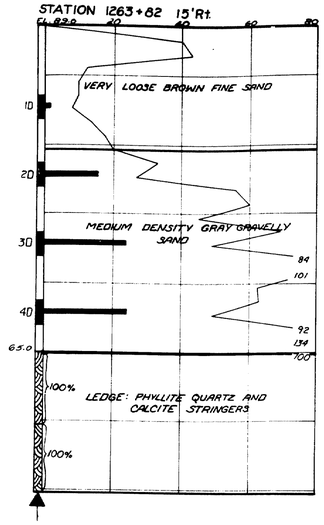
BORING AB-29

STATION 1263+82 15' Lt.



BORING AB-30

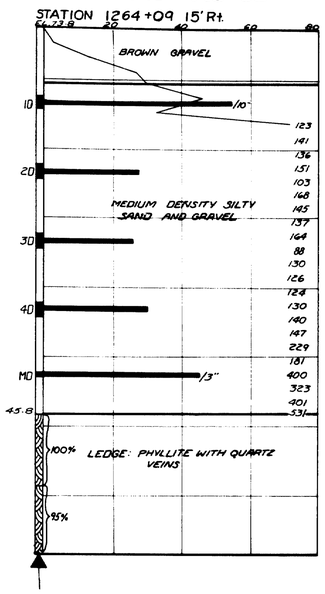
STATION 1263+82 15' Rt.



PIER NO. 6 N&S

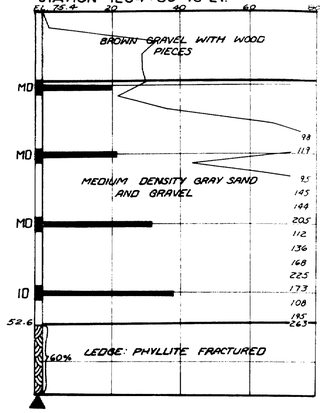
BORING AC-82

STATION 1264+09 15' Rt.



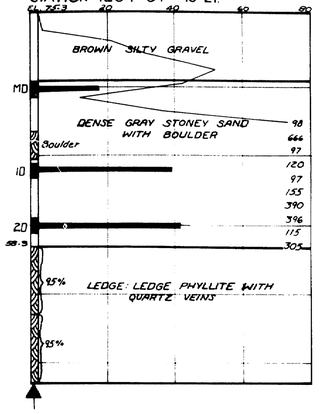
BORING AC-83

STATION 1264+35 15' Lt.



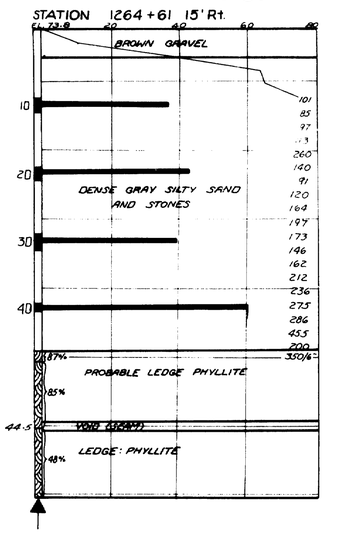
BORING AC-86

STATION 1264+87 15' Lt.



BORING AC-87

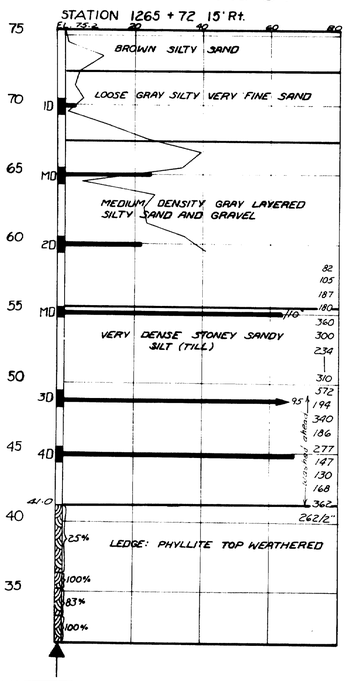
STATION 1264+61 15' Rt.



PIER NO. 7 S.B.

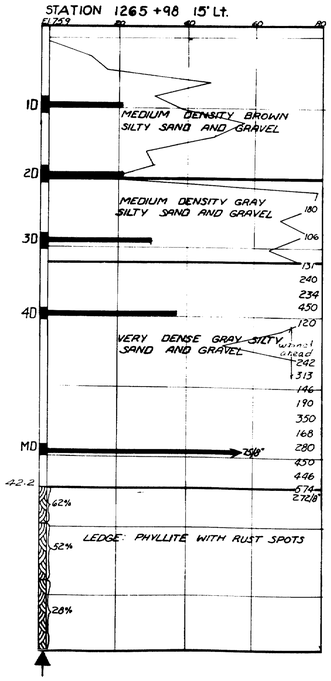
BORING AC-84

STATION 1265+72 15' Rt.



BORING AC-85

STATION 1265+98 15' Lt.

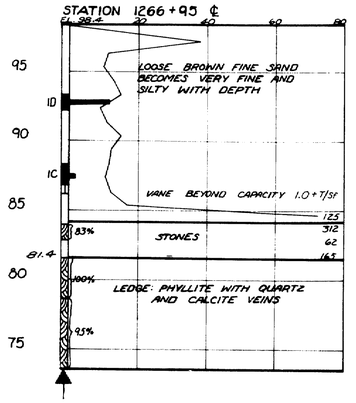


ELEVATION

ABUTMENT NO. 2 N&S

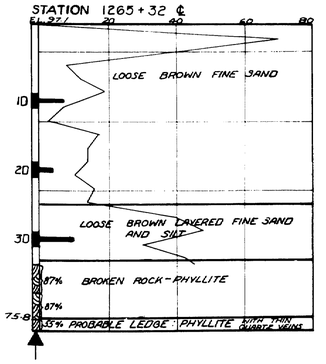
BORING AC-91

STATION 1266+95 ℄



BORING AC-92

STATION 1265+32 ℄



DESIGN– TRACE– CHECK–	Soils Division	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

BORING DETAILS

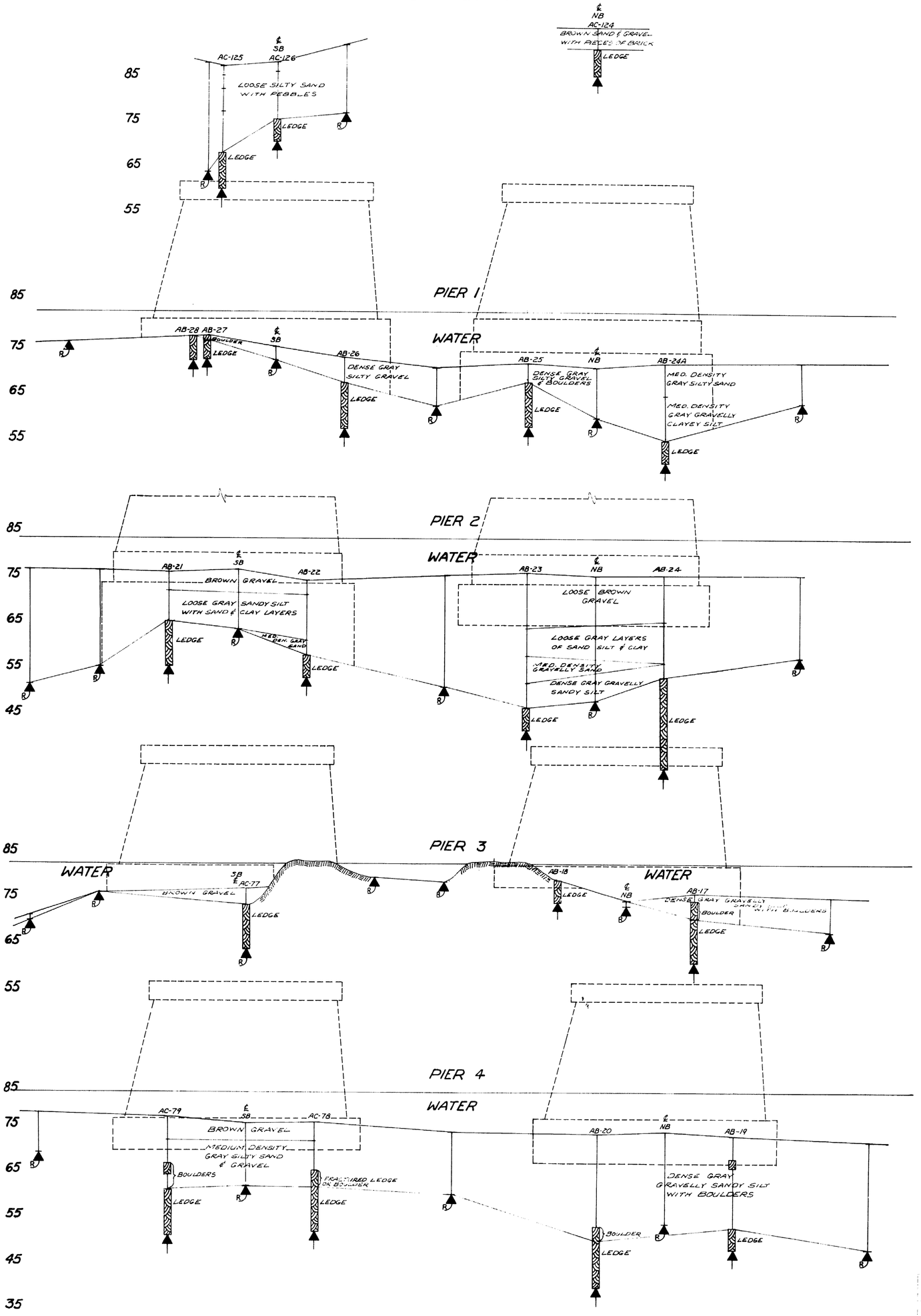
SHEET 21 OF 92 AUGUSTA, MAINE JULY, 1962

C. B. CO., NO 3788

0 1 2 3 4 5 INCHES

TRANSVERSE SECTIONS

ABUTMENT 1



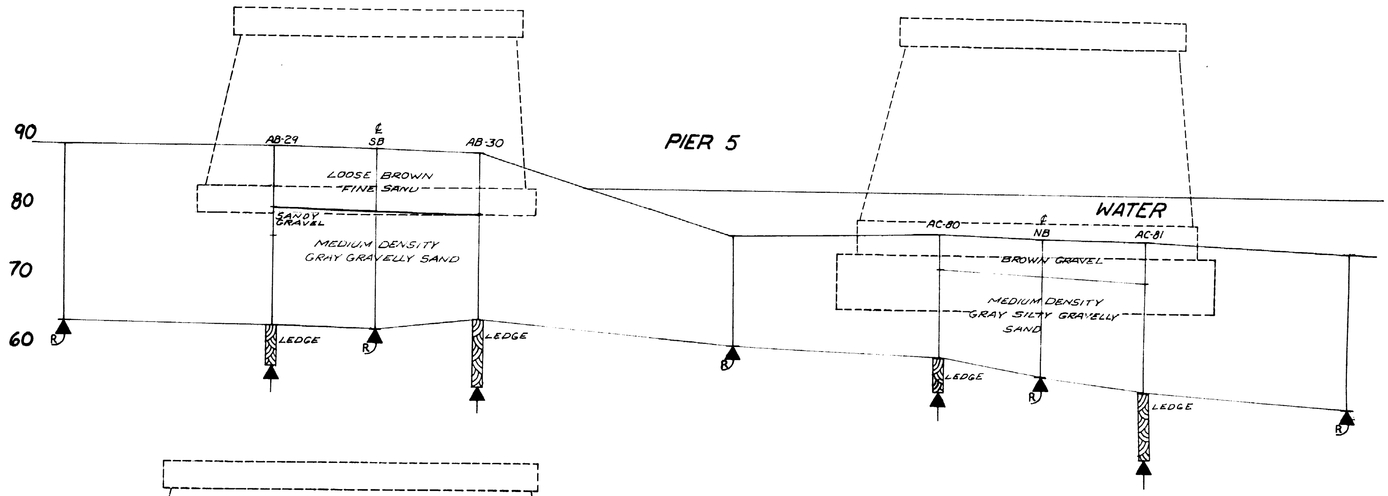
SCALE 1"=10'

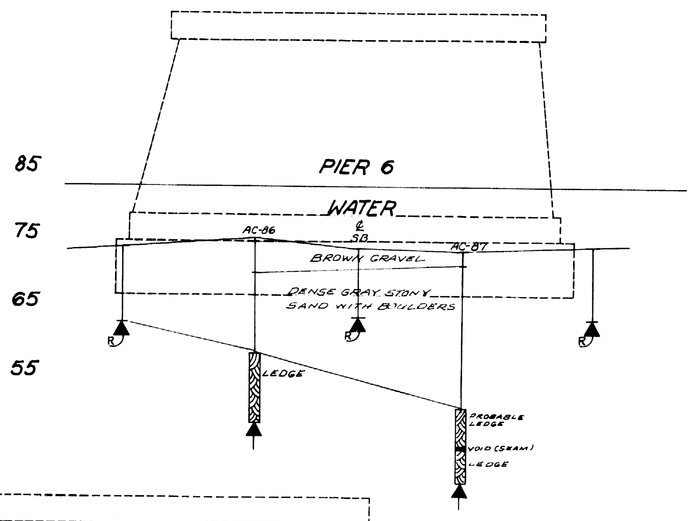
CLINTON A. CLAUSON MEMORIAL BRIDGES
TRANSVERSE SECTIONS
BORINGS

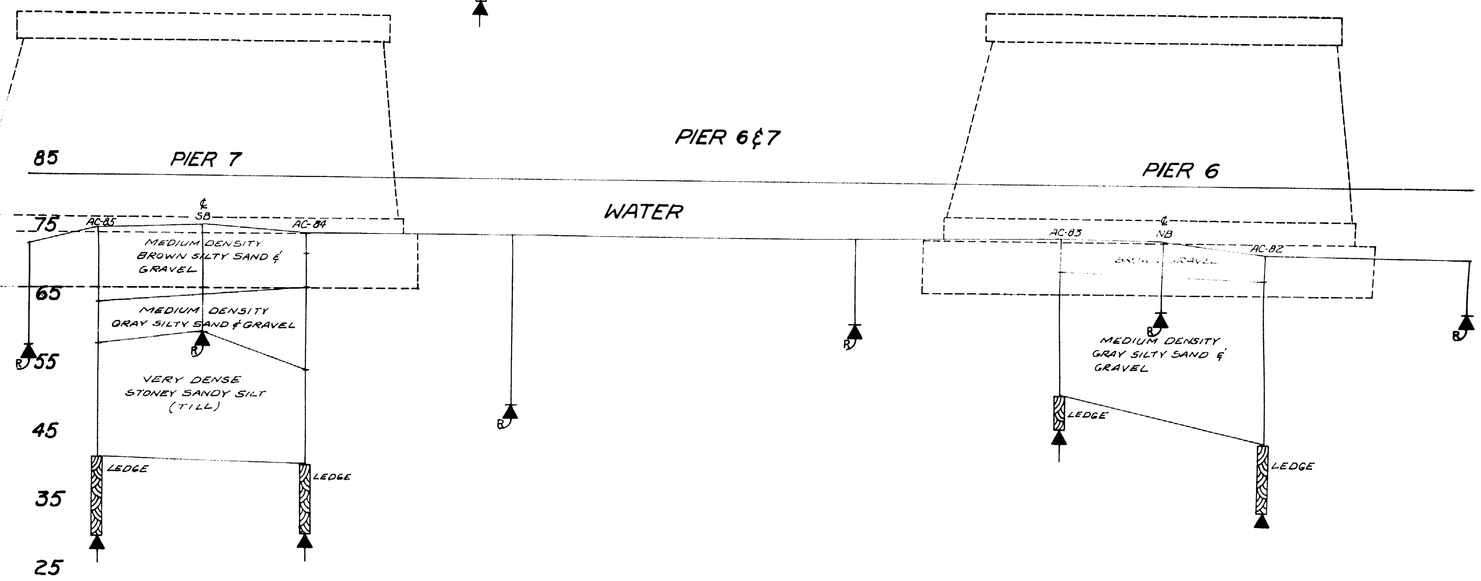
SHEET 22 OF 32 JULY, 1962

(8221-56-1)
22
25
SHEETS

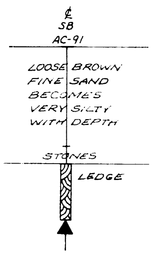
TRANSVERSE SECTIONS

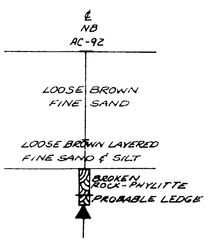






ABUTMENT 2



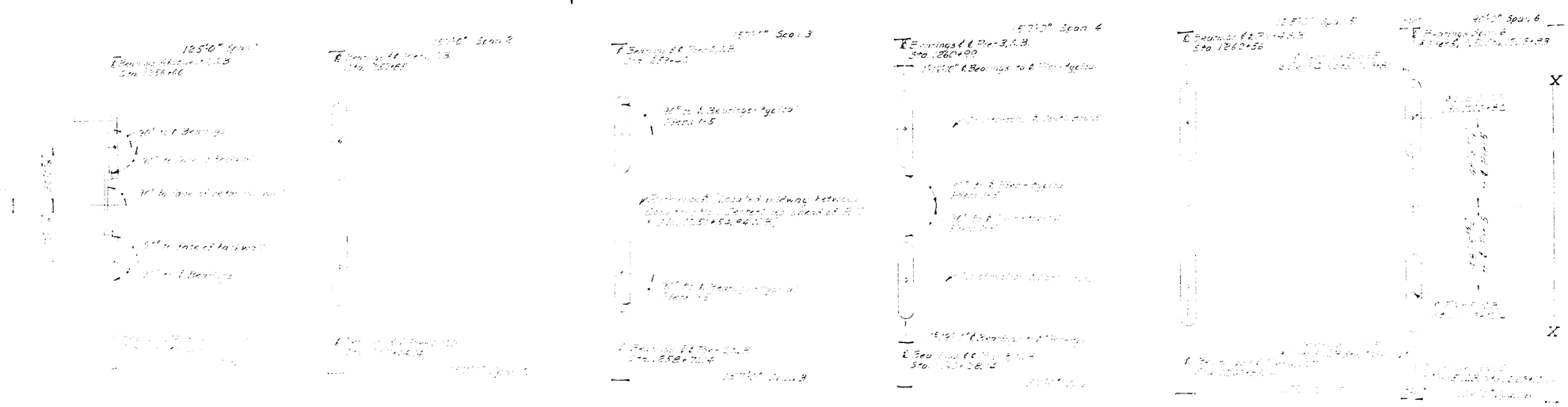


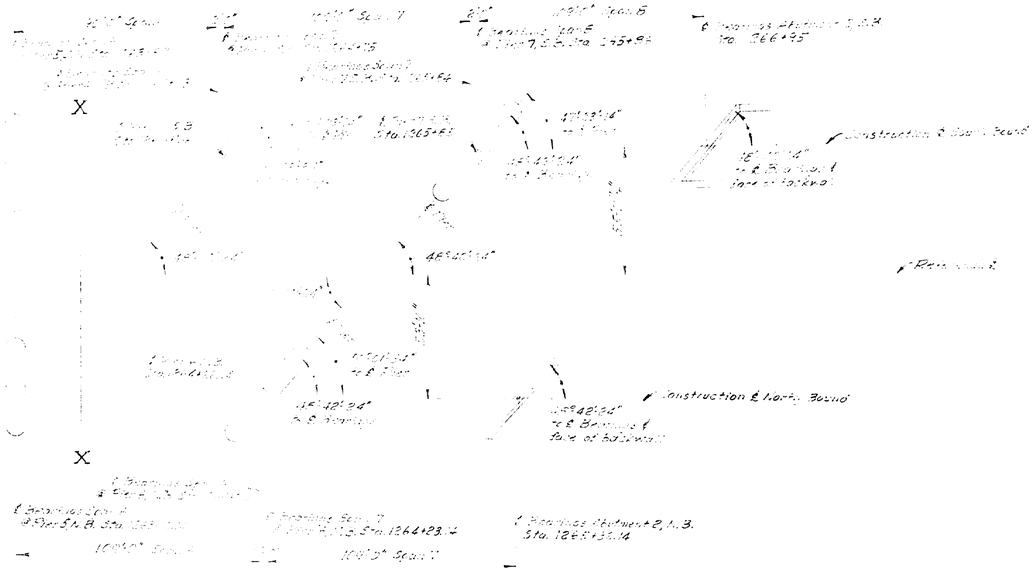
SCALE 1"=10'

CLINTON A. CLAUSON MEMORIAL BRIDGES
TRANSVERSE SECTIONS
BORINGS

SHEET 83 OF 92 JULY, 1962

B.P.R. REG.NO	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(88)	24	32





0 1 2 3 4 5 INCHES

CLINTON A. CLAUSON
MEMORIAL BRIDGES

OVER

BETWEEN THE TOWNS OF

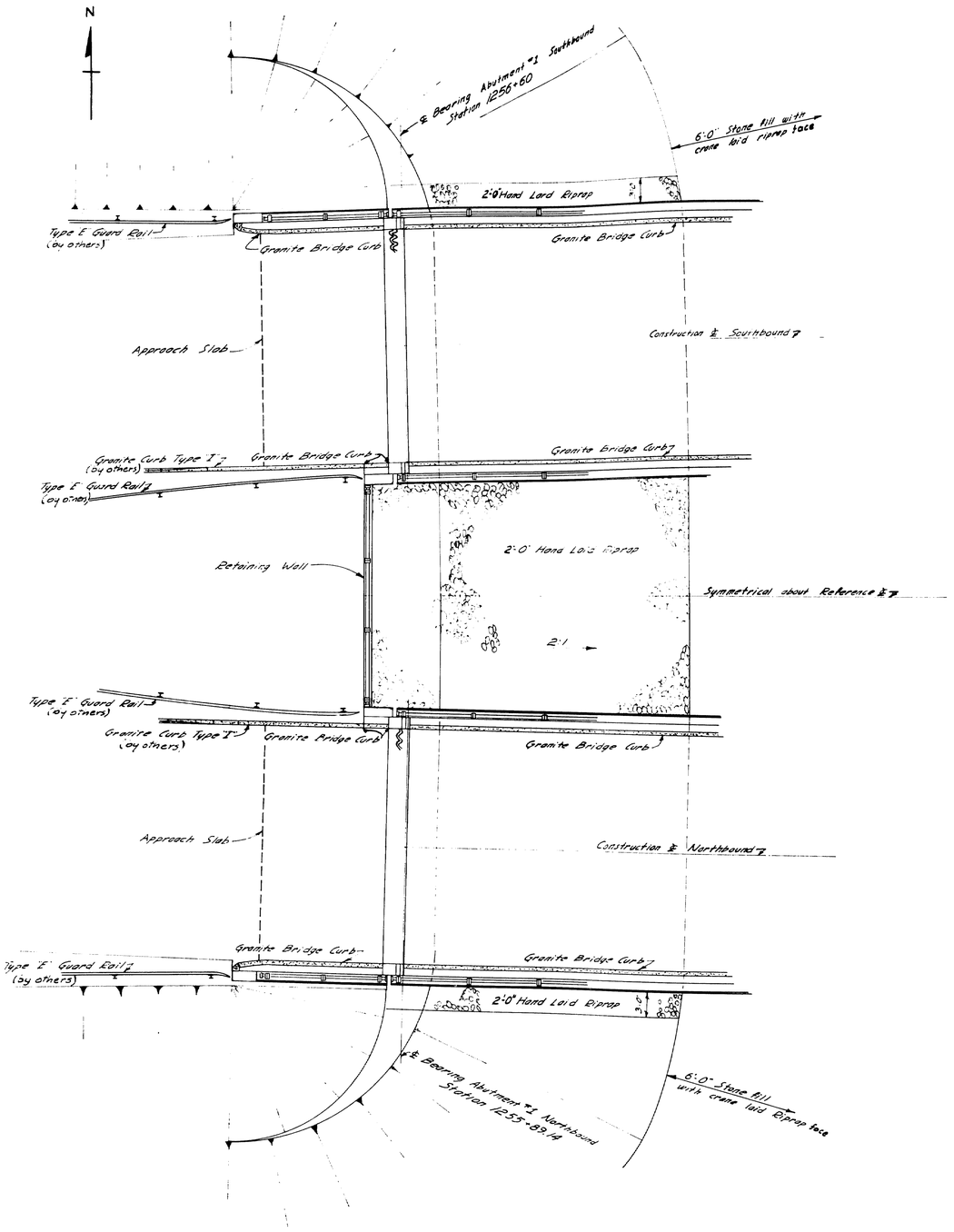
AND

KENNEBEC COUNTIES

SUBSTRUCTURE LAYOUT

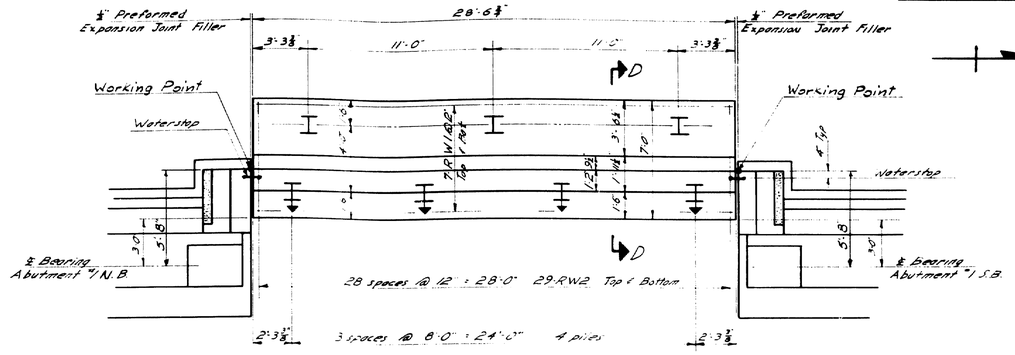
AUGUSTA, MAINE NOV. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	25	32



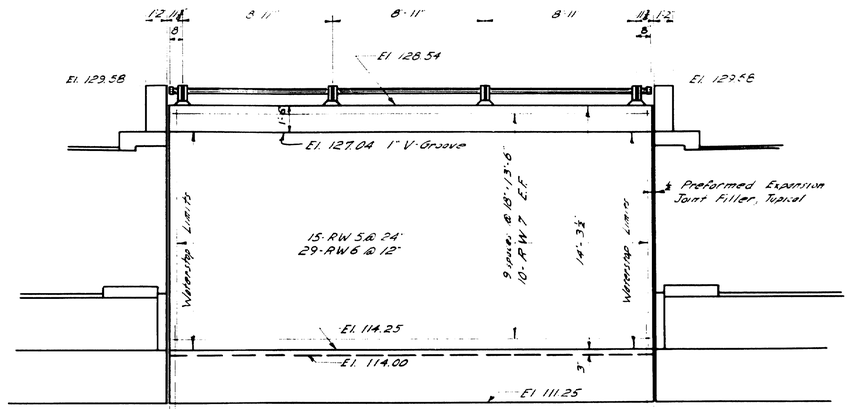
PLAN ABUTMENT #1

Northbound & Southbound

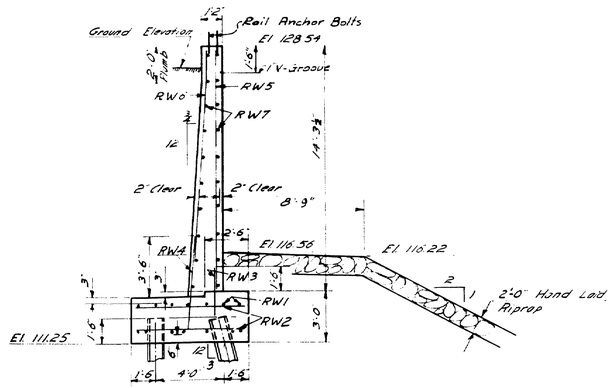


PLAN - RETAINING WALL

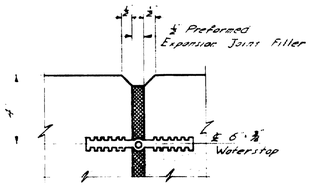
7-12BP53 – H Steel Bearing Piles driven to ledge or practical refusal.
Estimated Length = 45'
All piles shown thus ⊥ to be battered 3 ft in the direction of arrow.



FRONT ELEVATION



SECTION D-D



WATERSTOP DETAIL

DESIGN– T H K TRACE– H T A CHECK– A.H.R. CON	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

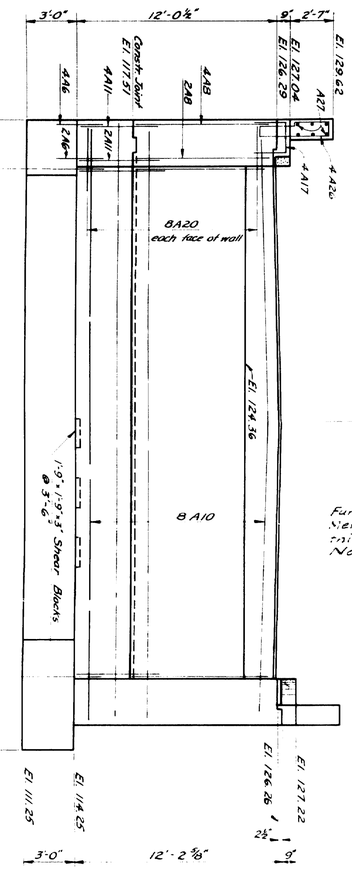
ABUTMENTS 1 & RETAINING WALL, NB. & SB.

SHEET 25 OF 32 AUGUSTA, MAINE NOV., 1962

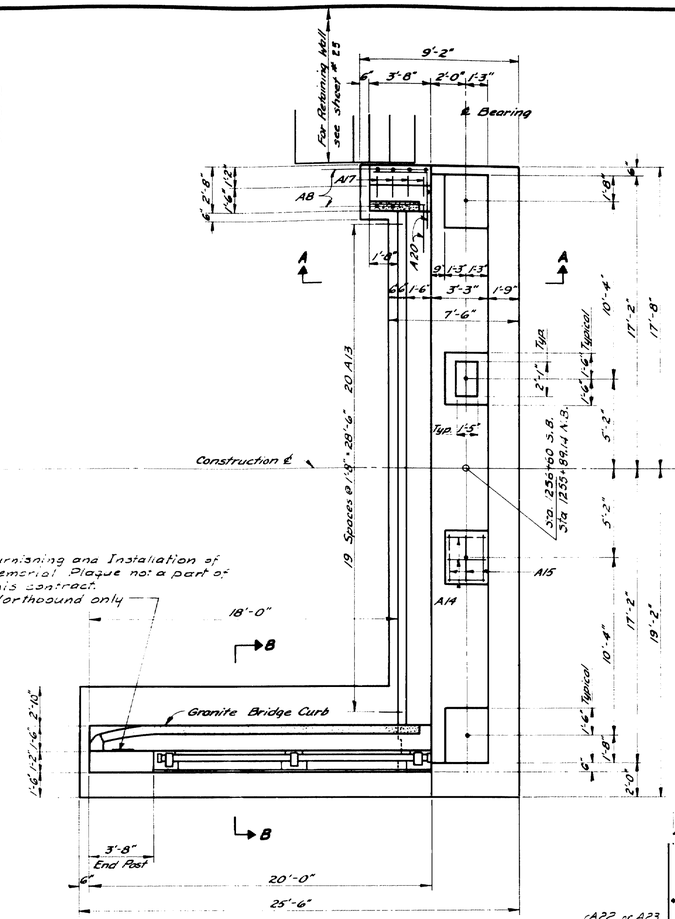
C. D. CO., NO 3788 48167

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	26	32

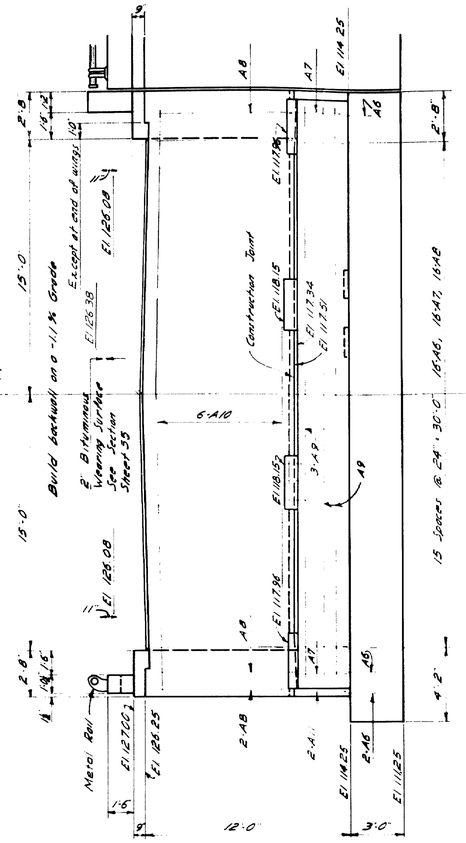


REAR ELEVATION

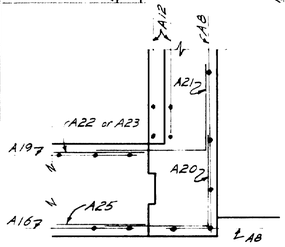


PLAN

Northbound - as shown
Southbound - opposite hand

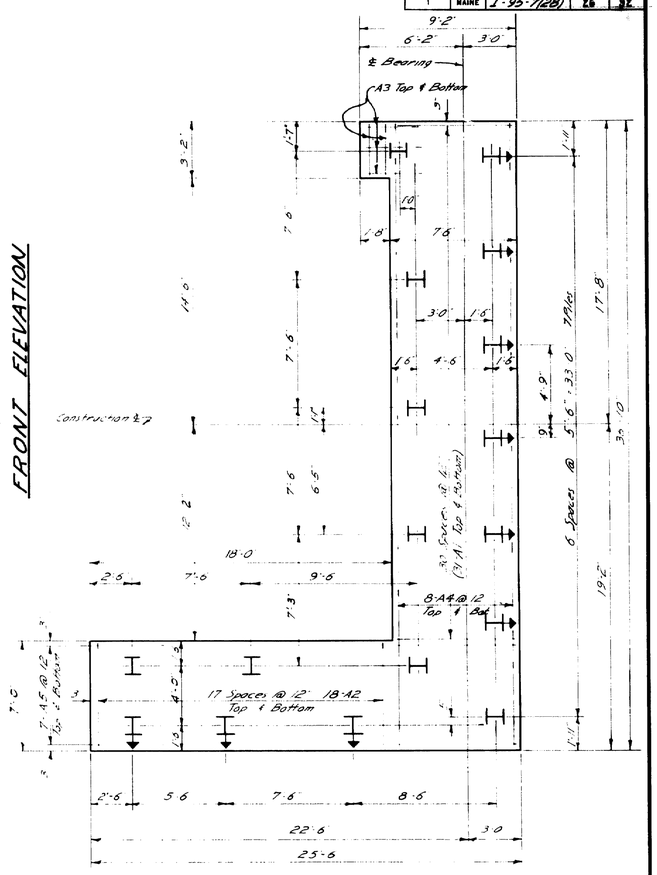


N.B. = NorthBound
S.B. = SouthBound
N.F. = Near face
F.F. = Far Face



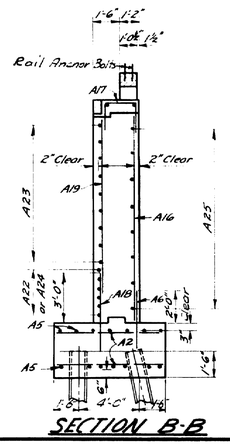
SECTION C-C

FRONT ELEVATION

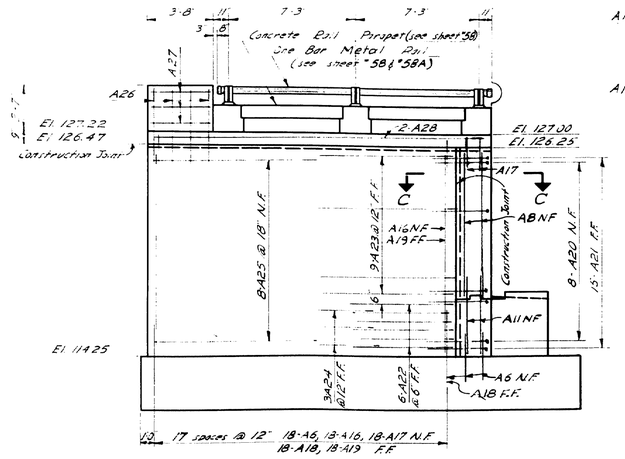


FOOTING PLAN

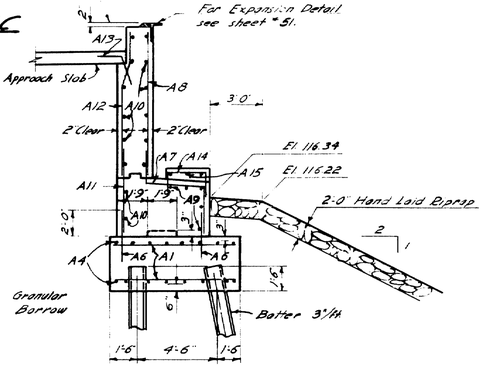
Piles to be BP53 - H steel Bearing Pile driven to ledge or practical refusal.
Estimated length = N.B. - 17 @ 35°
S.B. - 8 @ 60° Wing Wall; 9 @ 50° Breastwall
Allowable load = 46.75 tons/sq.in.
All piles shown thus ⊢ to be battered 3" in the direction of the arrow.



SECTION B-B



WING ELEVATION



SECTION A-A

GENERAL NOTES:

Dress shaded bearing areas to exact elevations and dimensions shown.
Minimum cover for reinforcing steel to be 2" unless otherwise shown.
Reinforcing steel to clear anchor bolts.
Caulk around edge of masonry plates with an approved caulking material.
Payment for this work shall be incidental to the contract items.
Paint bridge seat, face of backwall and 10" below top of riprap on face of breastwall with Gray Epoxy Resin Surface Sealant.
Granular Borrow shall be placed up to the bottom of the footing elevation before piles are driven.
In the area where piles are to be driven, stones larger than 6" will not be permitted in the Granular Borrow.

For Granite Bridge Curb Details & Approach Slab Details see sheet #27

Cover all vertical construction joints on the back with two layers of heavy roofing 10" wide. Coat the concrete and the back of each layer as applied with a suitable grade of plastic cement. Recess area to be covered 4".

DESIGN - T.H.K.
TRACE - R.T.A.
CHECK - A.H.F. EDH

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

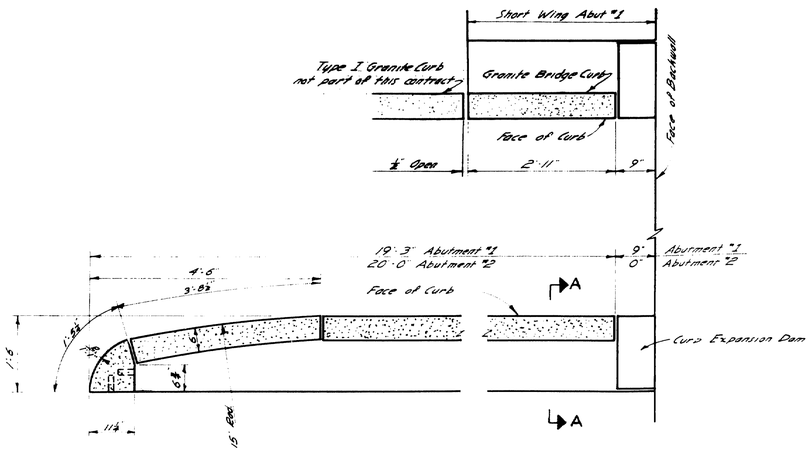
ABUTMENTS 1, NB. & SB.

SHEET 26 OF 32 AUGUSTA, MAINE [redacted] 1962

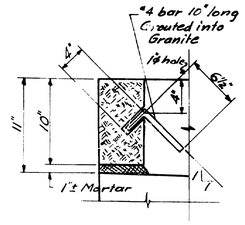
C. B. CO. NO 3788 25767

0 1 2 3 4 5 INCHES

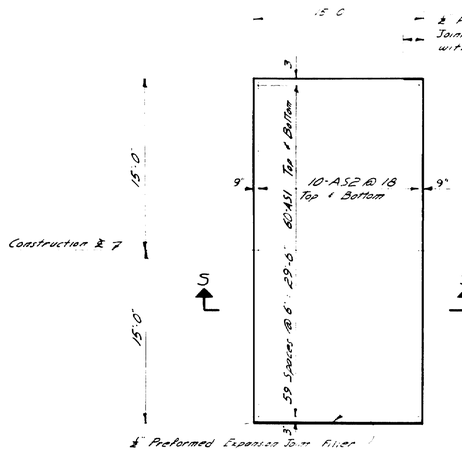
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	27	92



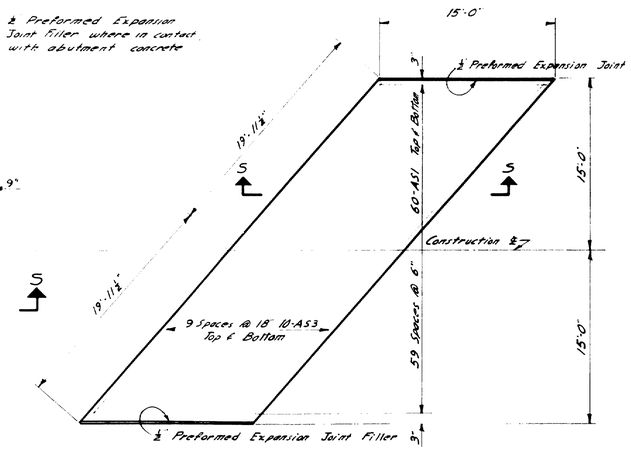
GRANITE BRIDGE CURB DETAIL
FOR
ABUTMENT #1 & #2



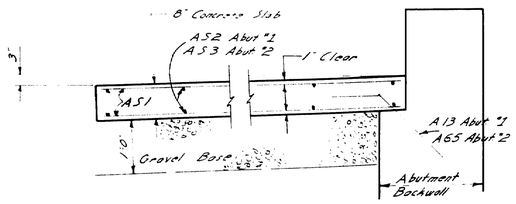
SECTION A-A



PLAN @ ABUTMENT #1

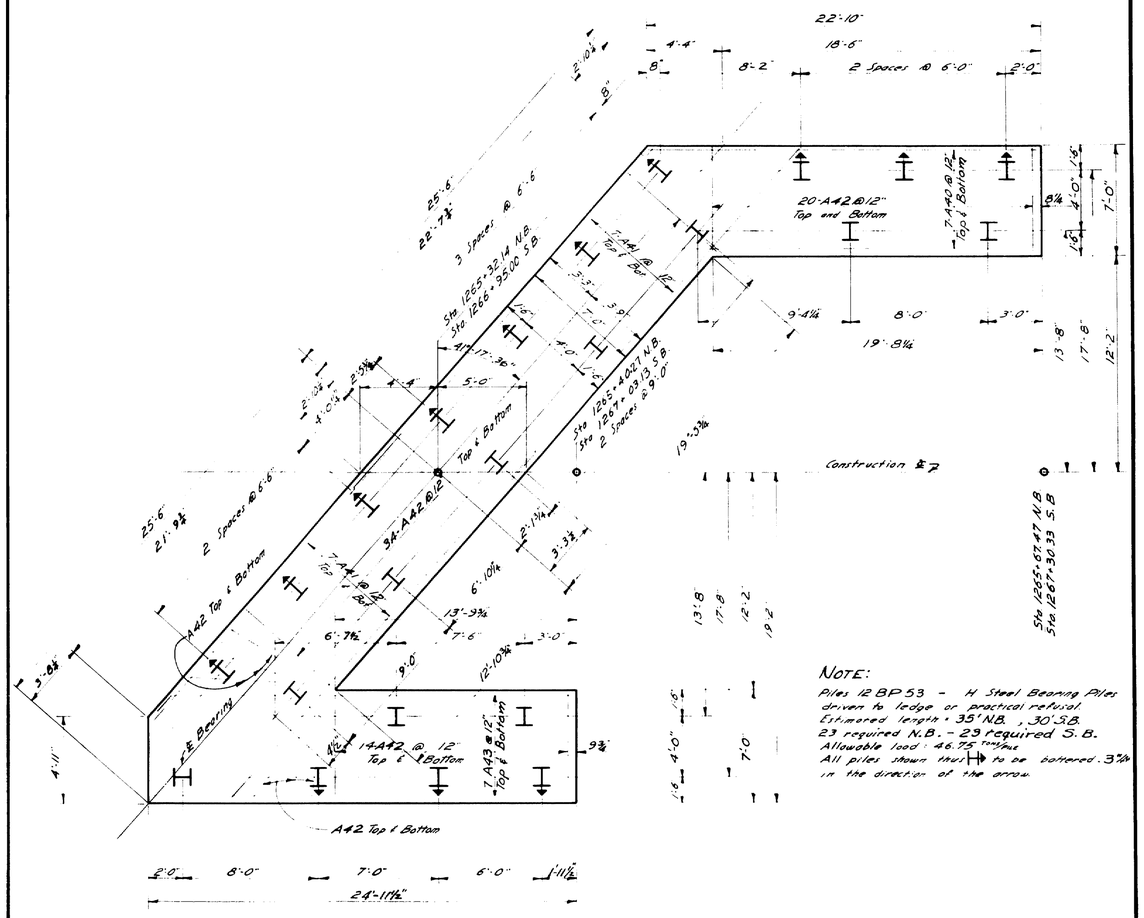


PLAN @ ABUTMENT #2



SECTION S-S

APPROACH SLAB DETAILS



FOOTING PLAN
ABUTMENT #2 NORTHBOUND & SOUTHBOUND

NOTE:
Piles 12 BP 53 - H Steel Bearing Piles driven to ledge or practical refusal.
Estimated length - 35' N.B., 30' S.B.
23 required N.B., - 23 required S.B.
Allowable load - 46.75 tons/pile.
All piles shown thus ⊢ to be battered 3¾ in the direction of the arrow.

DESIGN- R.W.K.
TRACE- R.T.A.
CHECK- A.H.P. C.D.H.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

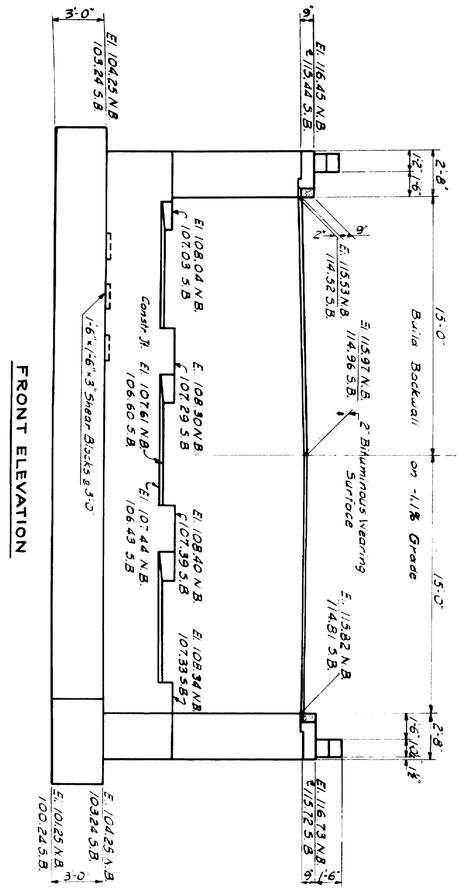
ABUTMENTS

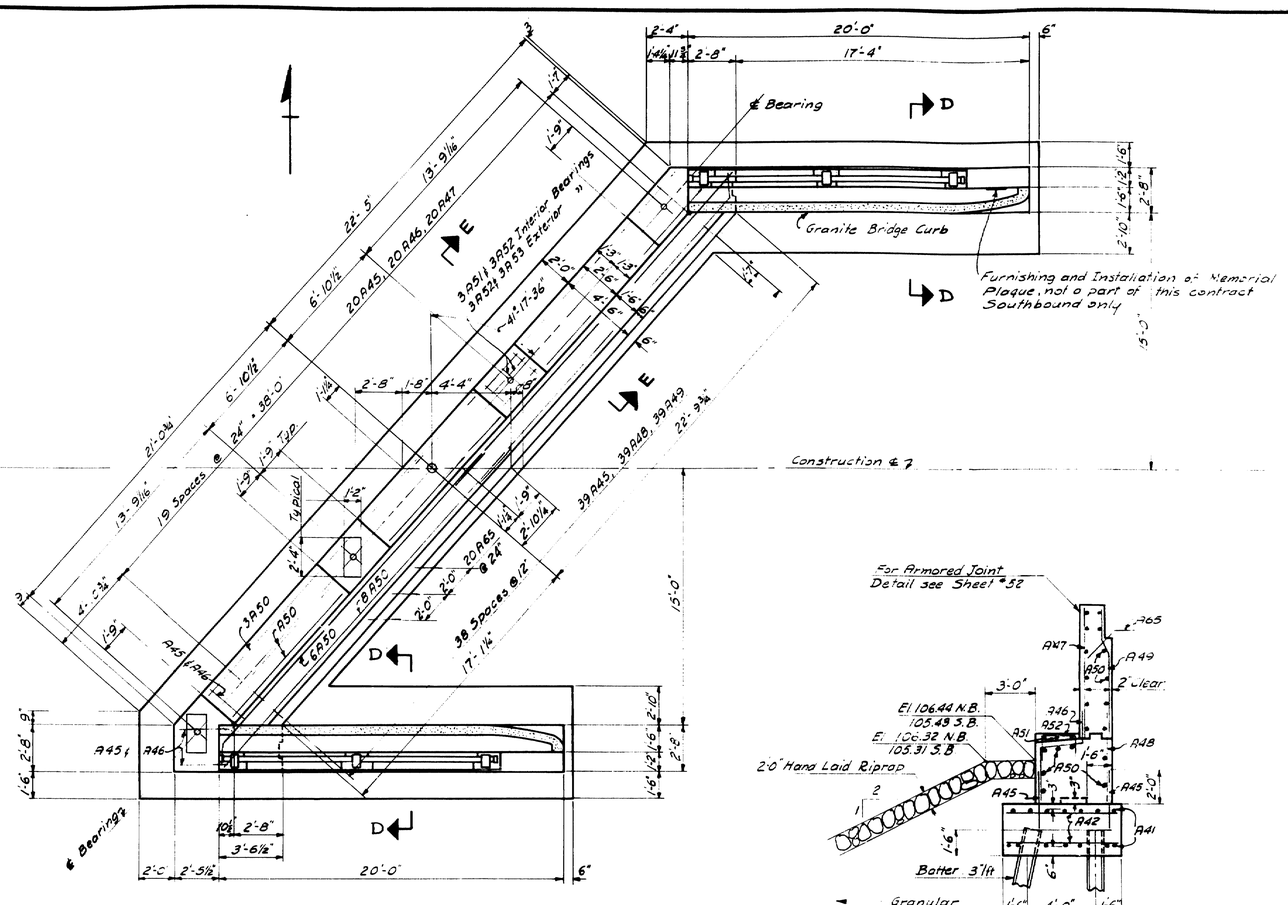
SHEET 27 OF 92 AUGUST, MAINE, NOV. 1962

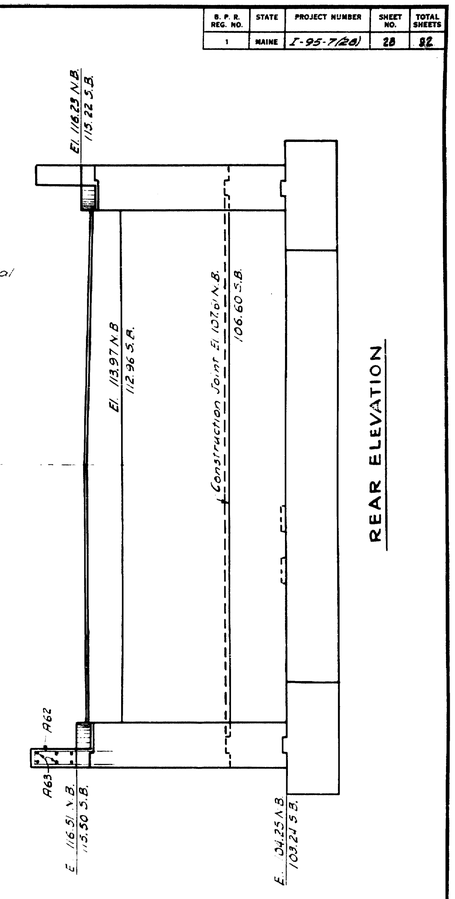
C. B. CO. NO 3798 18797

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(20)	28	92

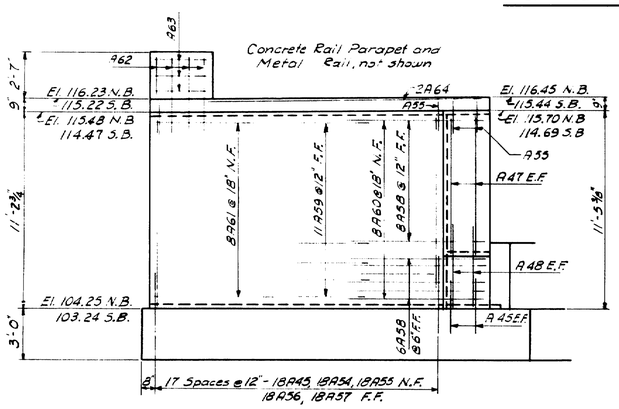




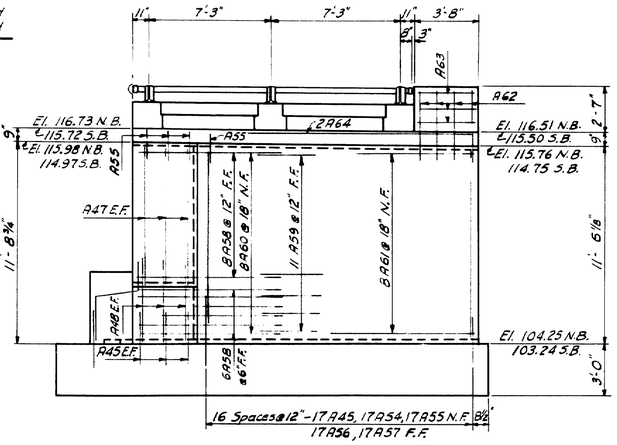


SECTION E-E

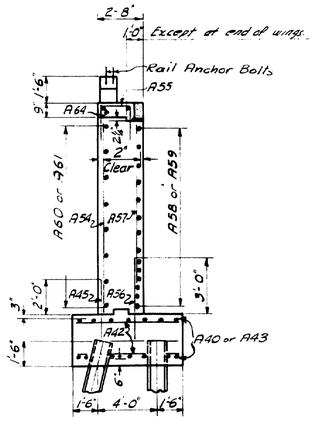
N.F.	= Near Face
F.F.	= Far Face
E.F.	= Each Face
N.B.	= Northbound
S.B.	= Southbound



NORTH WING ELEVATION



SOUTH WING ELEVATION



SECTION D-D

Abutments #2 N.B. and S.B. are identical except for elevations.

For General Notes see Abutment #1 sheet # 26
For Granite Bridge Curb Details see Sheet # 27

DESIGN- T. H. K.
TRACE- T. H. K.
CHECK- A.H.A. CDH

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

ABUTMENT 2 NB. & SB.

SHEET 28 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO. NO. 3788 68747

0 1 2 3 4 5 INCHES

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	29	32

PLAN

ELEVATION

PLAN AT TOP OF FOOTING

SECTION A-A

SHEAR KEY DETAIL
(VERTICAL CONSTRUCTION JOINT)

CLINTON A. CLAUSON MEMORIAL BRIDGES

KENNEBEC COUNTY

SCALE

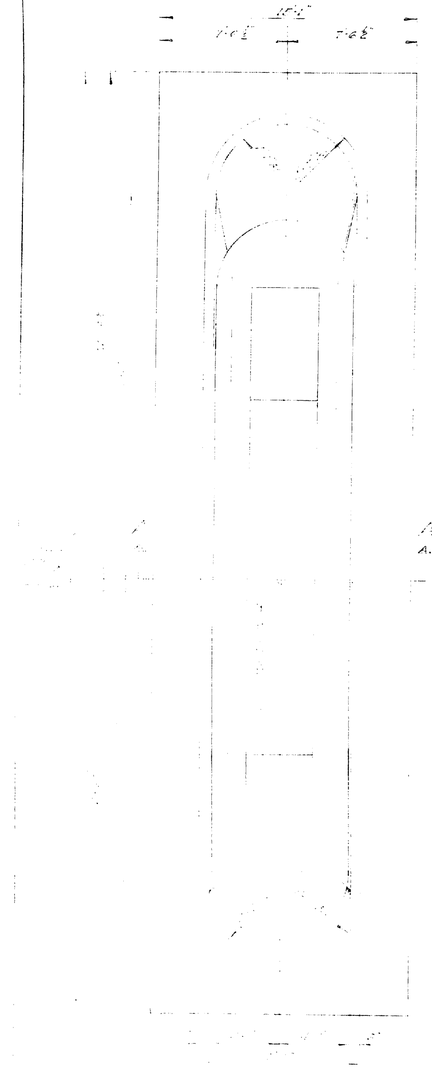
DESIGN AND DRAWING CONCRETE

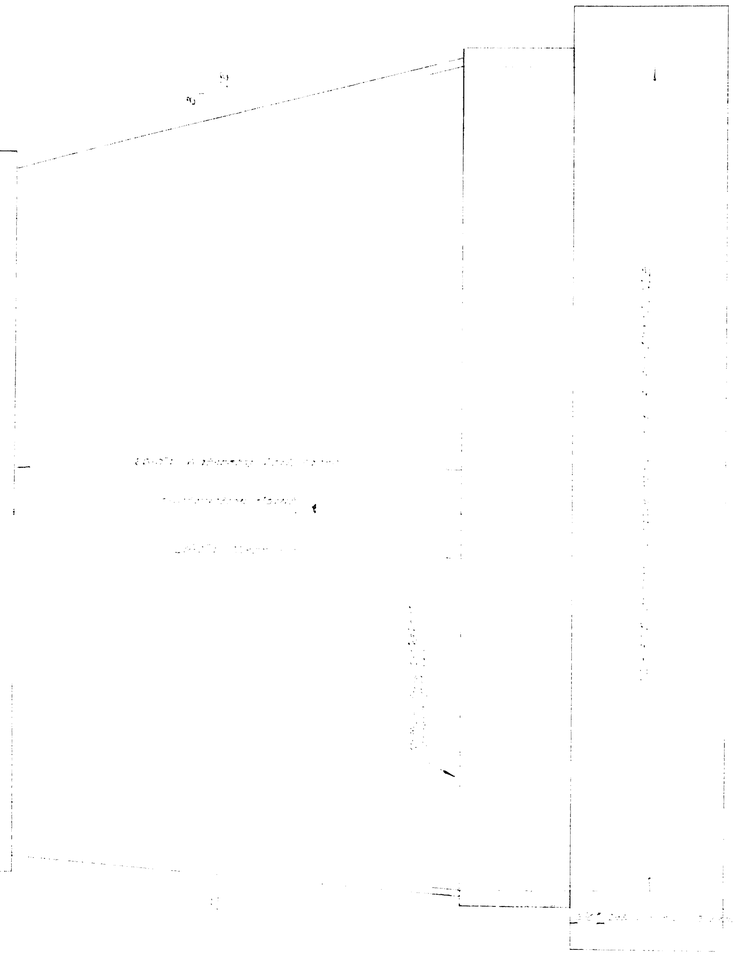
DATE

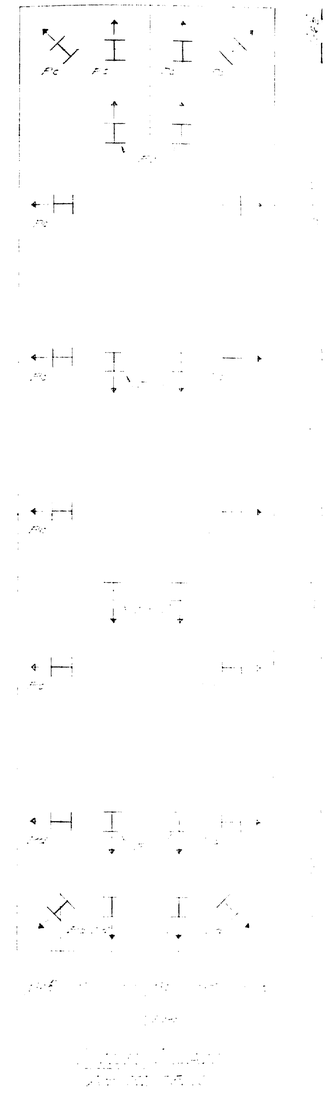
STATE HIGHWAY COMMISSION
AUGUSTA, MAINE — NOV. 1962

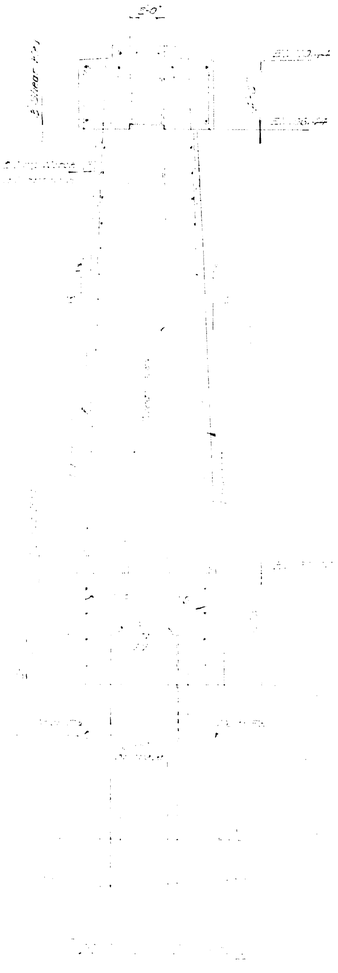
0 1 2 3 4 5 INCHES

B. P. R. Proj. No.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
	MAINE	I-95-7(28)	30	32





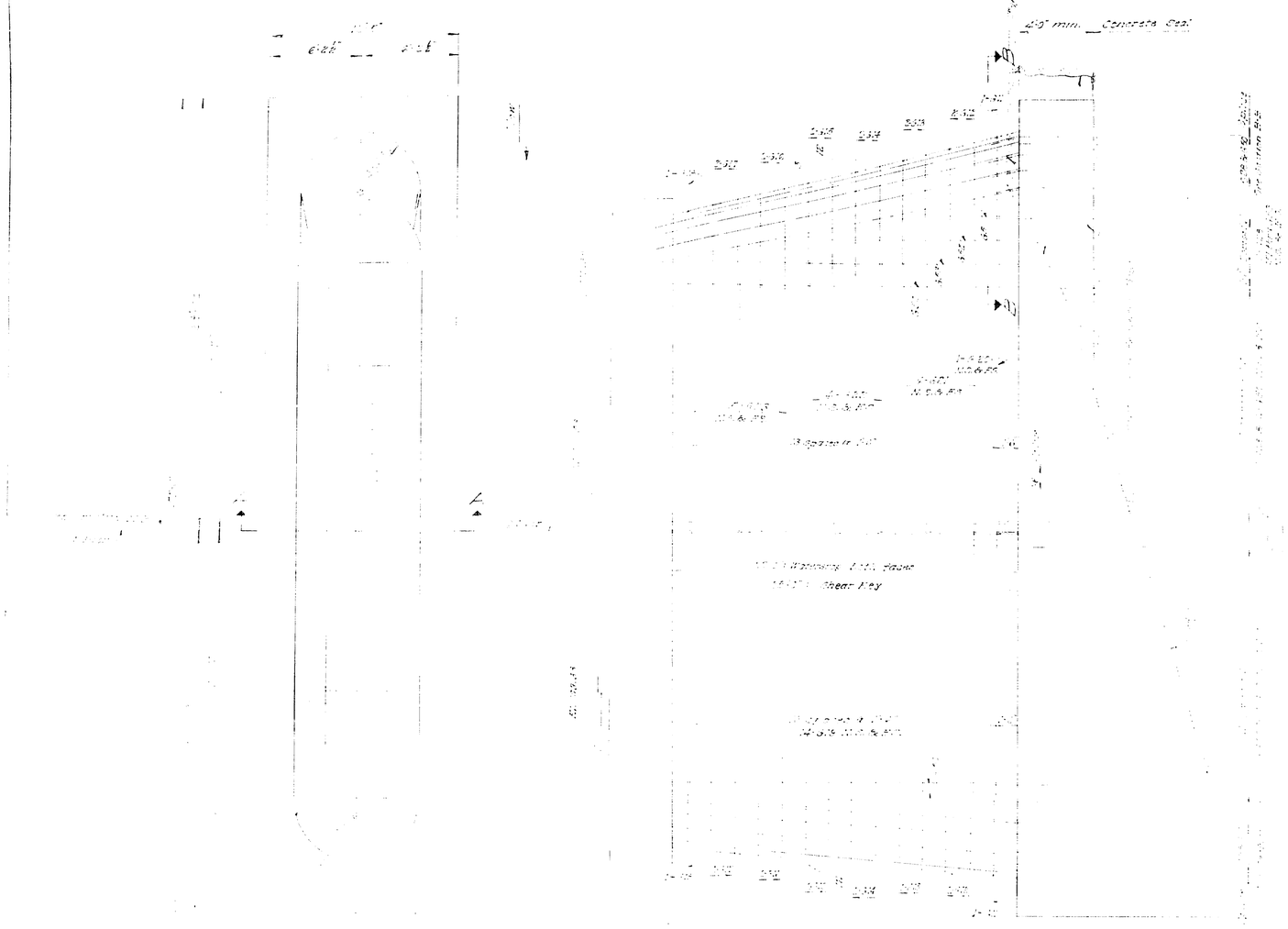


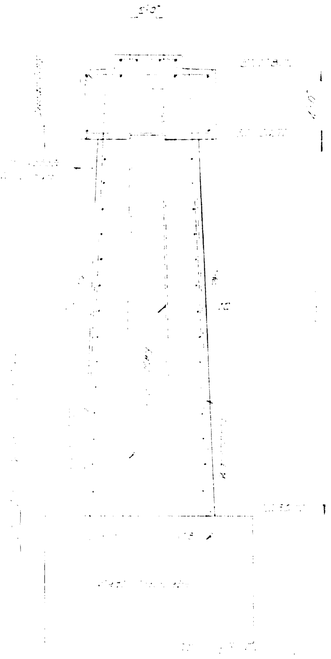


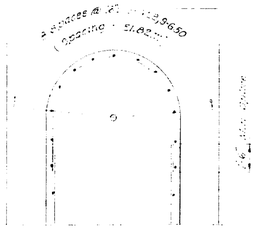
CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
PENOBSCOT RIVER
AT BANGOR
PIER 2, NORTH BOUND
STATE OF MAINE AUGUSTA, MAINE NOV. 1960

0 1 2 3 4 5 INCHES

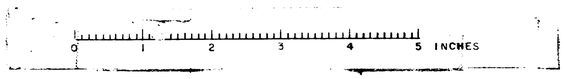
FED. AID PROJ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	MAINE	I-95-1(28)	51	92







SECTION B-B
SECTION AT D.S. END THE SAME



CLINTON A. CLAUSON
MEMORIAL BRIDGES

FAIRFIELD AND BENTON
CONSTRUCTION AND MAINTENANCE
STATE HIGHWAY COMMISSION
AUGUSTA, MAINE NOV. 1962

CLINTON A. CLAUDON
MEMORIAL BRIDGE

AUGUSTA, MAINE NOV. 1962

98	52	[illegible]	MAINE	1
TOTAL SHEETS	SHEET NO.	PROJECT NUMBER	STATE	F.A. PROJ. NO.

B. P. R. REF. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-155-1(28)	33	92

NOTE

For remaining reinforcing not detailed, spacing, length, bar bending, refer to Bridge Bill of Bond Bar Details and General Pier Notes for Pier 5 N.B. Sheet 28

PILE DATA

DESIGN M.L.B.
DETAIL T.P.K.
CHECK T.P.K.

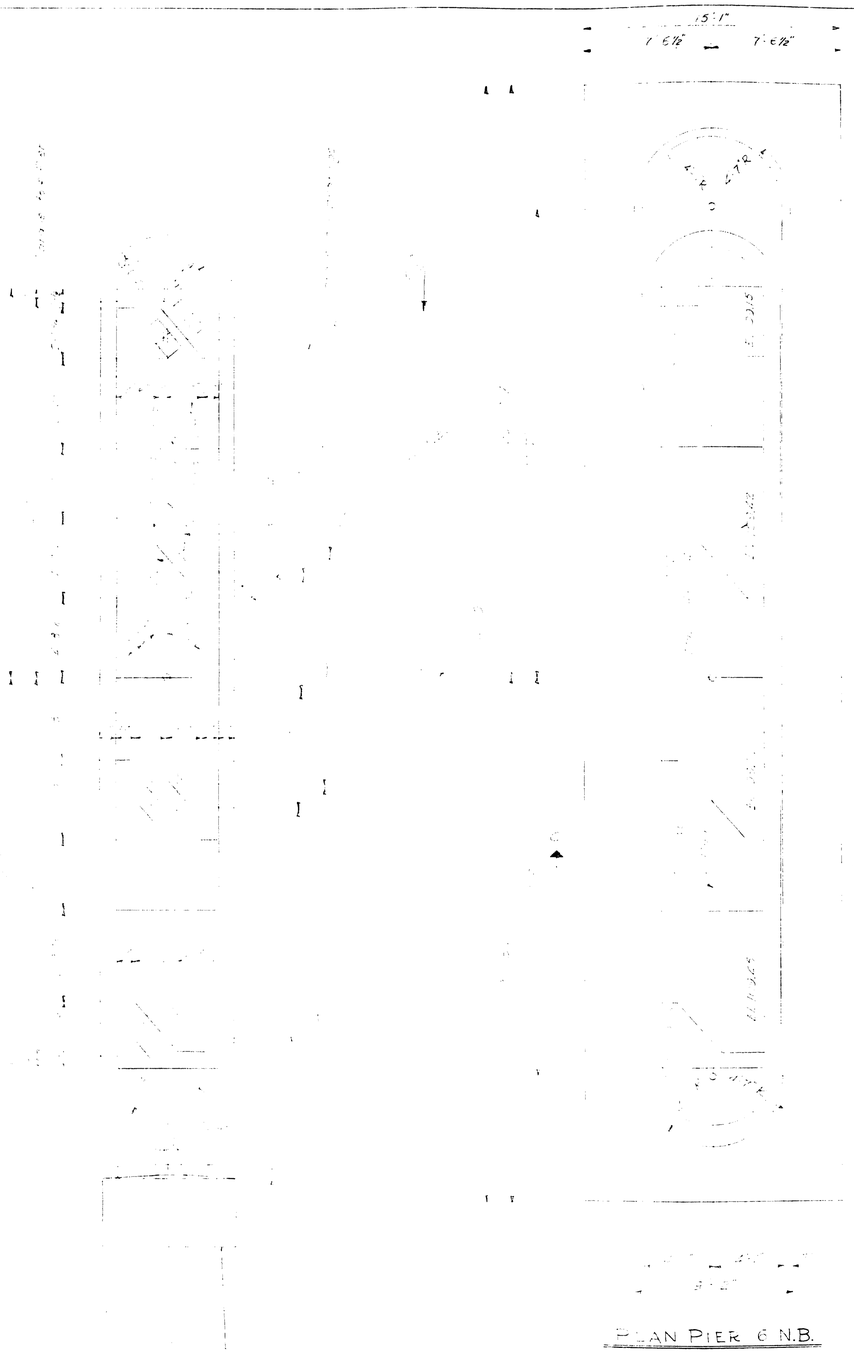
STATE HIGHWAY COMMISSION
ARDEN E. DAVISON

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
PIER 5 NORTH BOUND

SHEET 33 OF 92 AUGUSTA, MAINE NOV. 1962

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
MAINE	[illegible]	34	92



PLAN PIER 6 N.B.

PIER CAP DETAILS

0 1 2 3 4 5 INCHES

STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

CLINTON A. CLAUSON MEMORIAL BRIDGES

KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
PIER 6 NORTH BOUND

SHEET 34 OF 92 AUGUSTA, MAINE NOV. 1962

B.P.R. REG NO	STATE	FED AID PROJ. NO.	SHEET NO	TOTAL SHEETS
1	MAINE	I-95-7(28)	35	92

NOTE

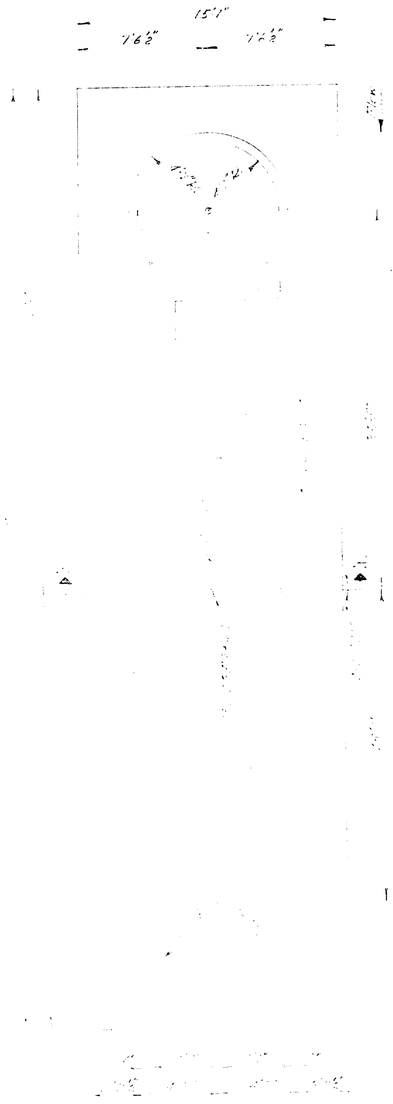
For reinforcing steel not detailed this sheet, Waterstop Detail, Shear Key Detail (Vertical Construction Joint) and General Pier Note see Pier 1, M.B. sh. 29

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

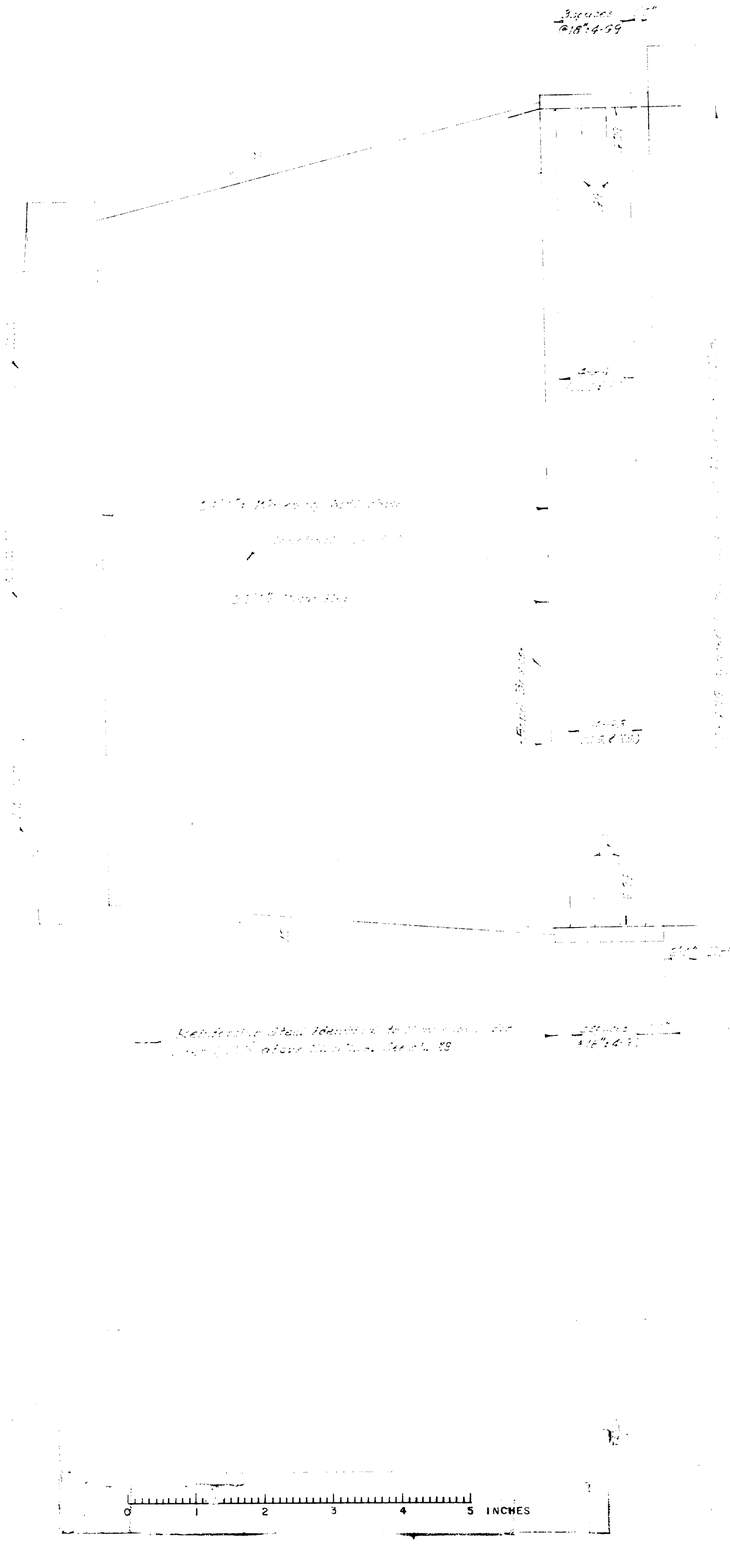
CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
PIER 1, SOUTH BOUND

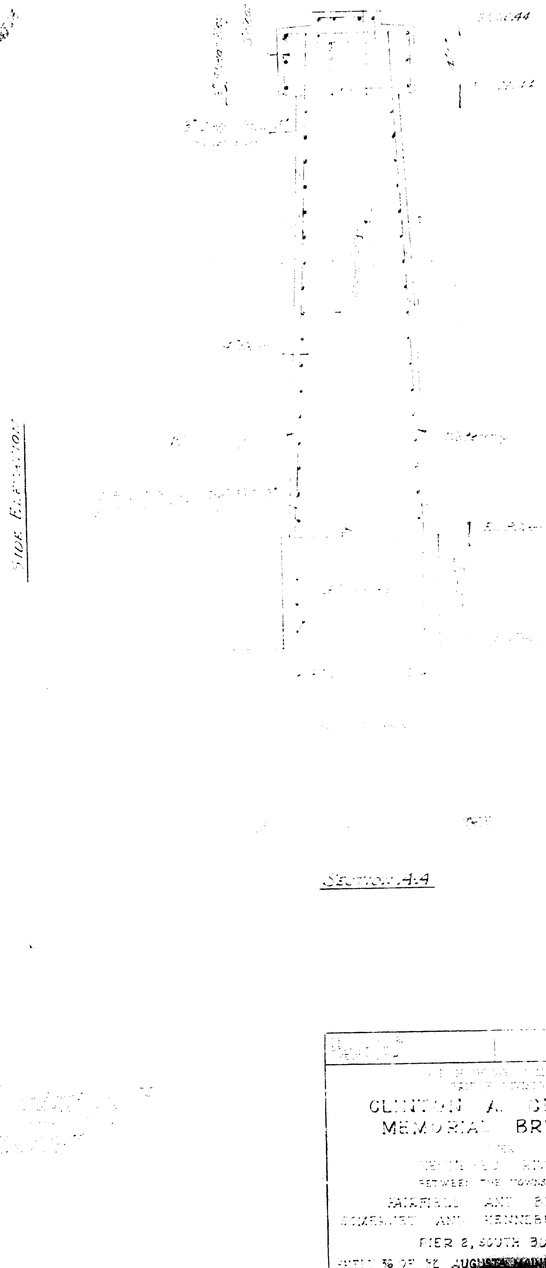
SHEET 35 OF 92 AUGUSTA, MAINE NOV. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(88)	36	92



PLAN - PIER 2, S.B.





SECTION A-A

NOTE

CLINTON A. CLAUSON MEMORIAL BRIDGES

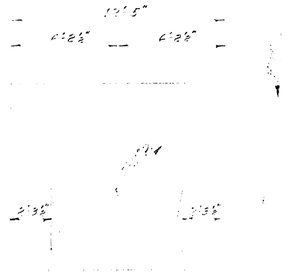
OVER THE RIVER BETWEEN THE TOWNS OF FAIRFIELD AND BENTON IN SOMERSET AND PENOBSCOT COUNTIES

PIER 2, SOUTH BOUND

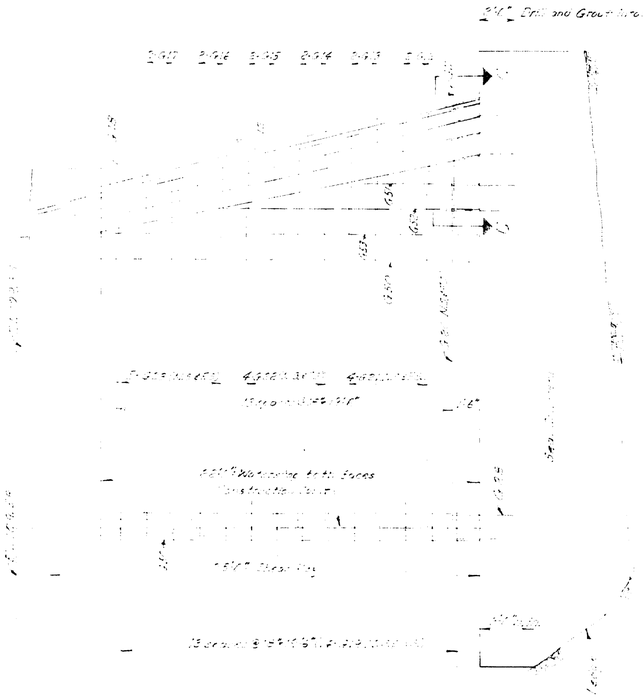
SHEET 36 OF 92 SHEETS AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

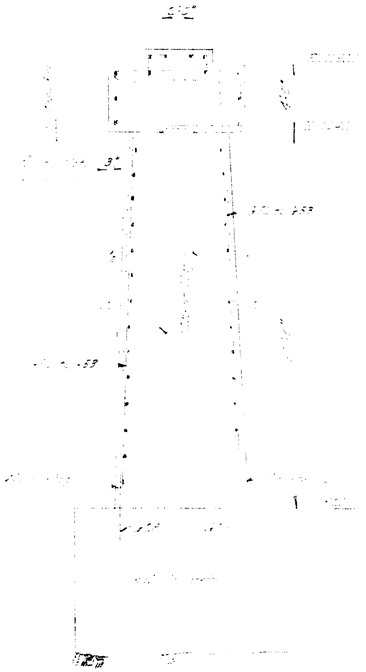
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	37	92



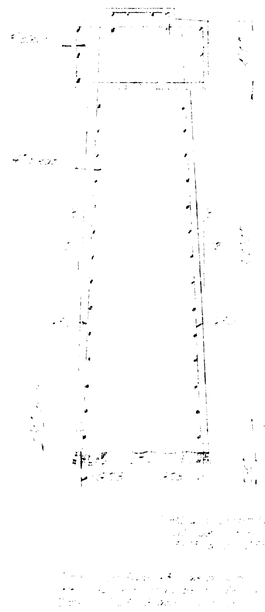
PLAN - PIER 3 & 4



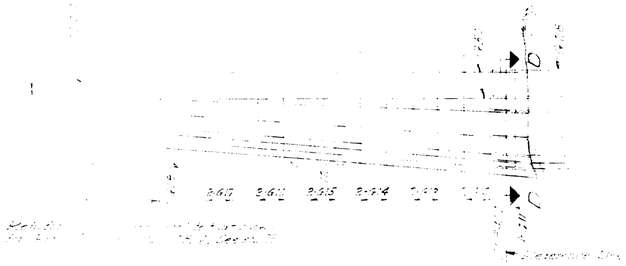
SIDE ELEVATION

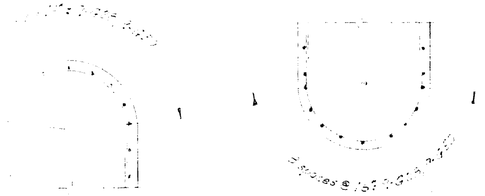


SECTION A-A



SECTION B-B





SECTION C-C

SECTION D-D

NOTE

CLINTON A. CLAUSON MEMORIAL BRIDGES

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON IN COUNTIES

PIERS SOUTH BOUND

DEPT. OF PW AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	58	92

13'-11"
6'-11½" 6'-11½"

PLAN - PIER 4 & 5

Existing steel H-piles to be cut off at elev. 28.50 ± (see sh. 59)

2½" Diameter grout hole
Rail Typical

NOTE

For reinforcing steel bar details & notes, reference is made to Sheet No. 59 of these Contract Plans. For Pier 4 & 5 Plan, see Sheet No. 55

SIDE ELEVATION

PILE PLAN
SCALE: 1/8" = 1'-0"

PILE DATA

Piles to be driven to ± 1 ft. to be cut off at elev. 28.50 ± (see sh. 59)

SECTION A-A

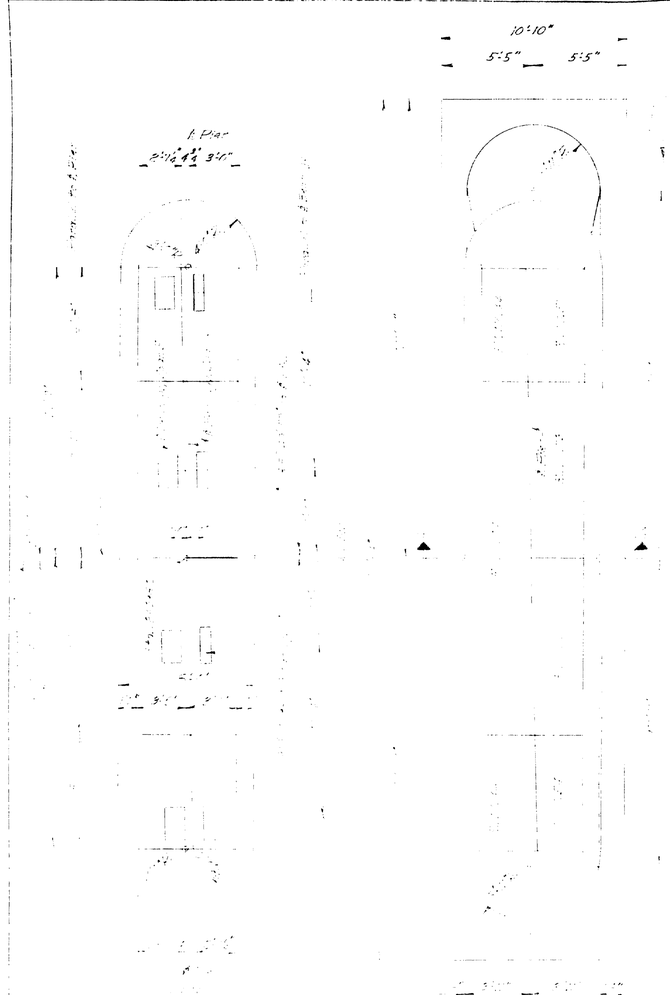
JOINTON A. CLAUSON MEMORIAL BRIDGES

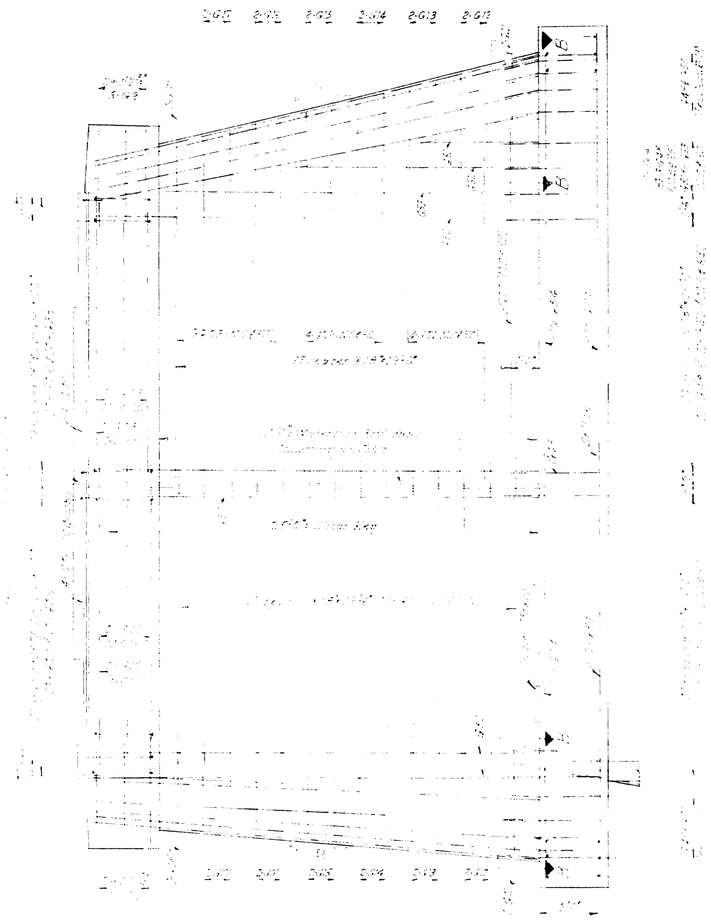
PIER 4, SOUTH BOUND

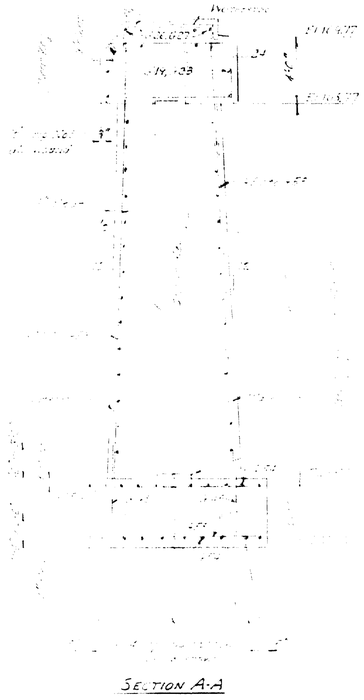
SHEET 58 OF 92 AUGUSTA, MAINE NOV. 1962

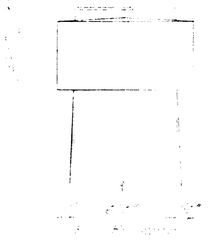
0 1 2 3 4 5 INCHES

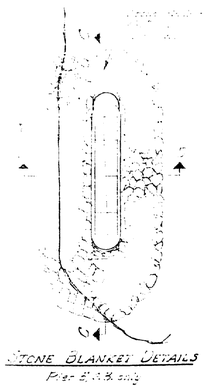
P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	S-45-7(28)	39	92

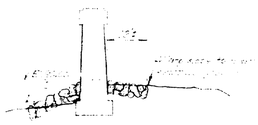












PILE DATA

NOTE

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

PIER 5, SOUTH BOUND

SHEET 39 OF 92 AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

B.P.C. REG. NO.	STATE	PROJECT NUMBER
1	MAINE	I 95-7(28)

PLAN PIERS "6 & "7 S.B.

SIDE ELEVATION

SECTION A-A

PIER CAP DETAILS

0 1 2 3 4 5 INCHES

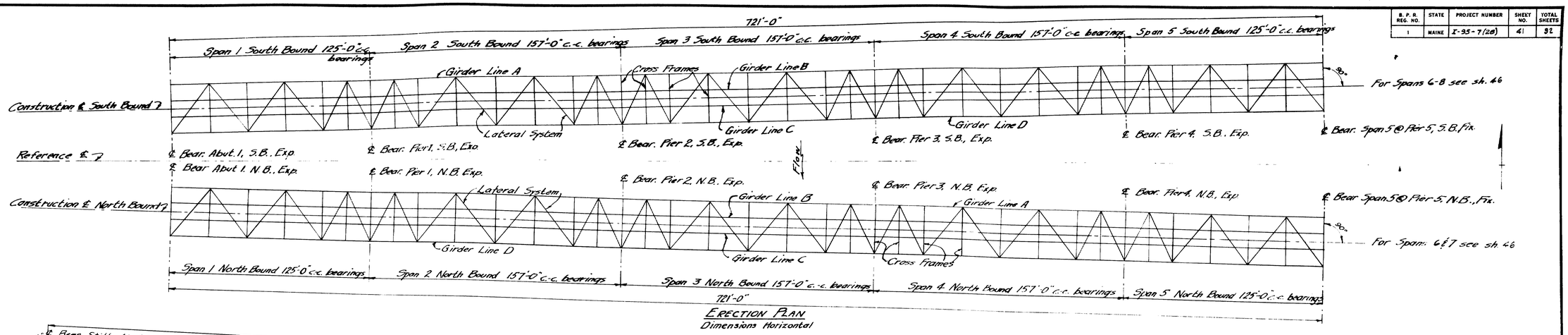
STATE HIGHWAY COMMISSION
BRIDGE SECTION

CLINTON A. CLAUSON MEMORIAL BRIDGES

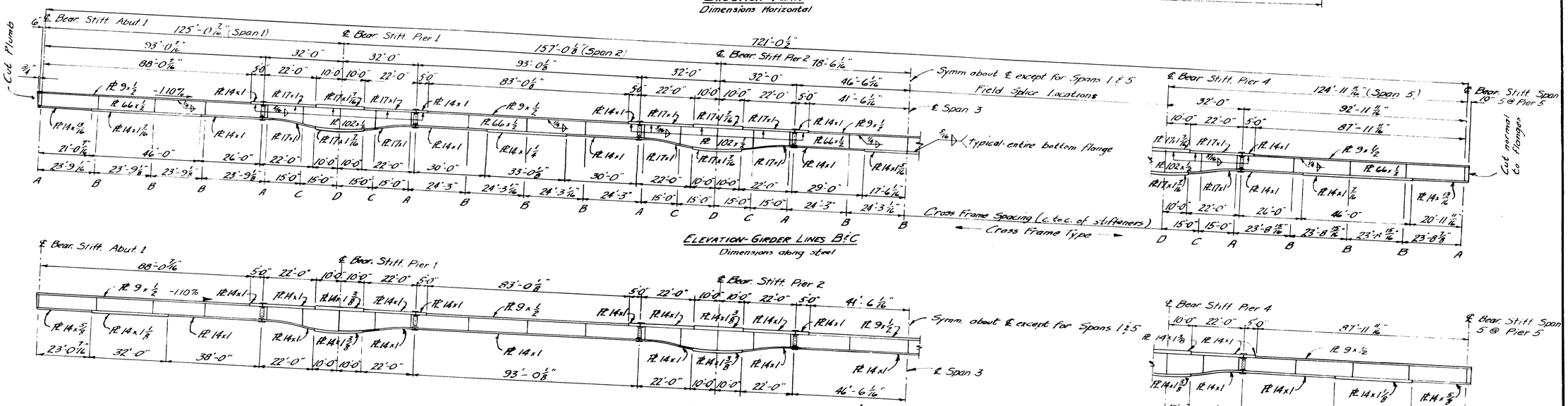
ON
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
PIERS 6 & 7 SOUTH BOUND

SHEET 43 OF 52 AUGUSTA, MAINE NOV. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	41	92

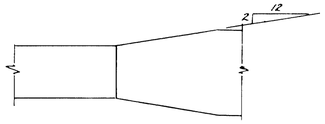


ERECTION PLAN
Dimensions Horizontal

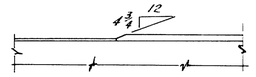


ELEVATION-GIRDER LINES B & C
Dimensions along steel

ELEVATION-GIRDER LINES A & D
Dimensions along steel
Dimensions and details not shown same as Girders B & C



FLANGE BUTT WELD @ WIDTH CHANGE



FLANGE BUTT WELD @ THICKNESS CHANGE

Note: "Single Vee Butt Weld" to be used when either plate is 1" or less in thickness. Structural Steel Fabricator to furnish details.

GIRDER FABRICATION NOTE
SPANS 1-5 N.B. & S.B.

Flanges are to be butt welded in accordance with detail this sheet and the specifications, and inspected in conformance with the specifications prior to being fillet welded to the web plates.

The Steel Fabricator at his option may fabricate the web plates with butt welds with the following limitations:

A maximum of two (2) transverse welds in the positive moment 66 x 1/2 web plates per girder per span.

A maximum of one (1) transverse weld each side of the ℄ of Bearing at a minimum distance of 12'-0" from the ℄ of Bearing, and one (1) longitudinal weld in the negative moment 102 x 1/2 web plates per girder per section between field splices.

If butt welds are used to fabricate the web plates they shall be made and inspected in conformance with the specifications before the web plates are fillet welded to the flange plates. The location and detail of butt welds in the webs shall be subject to approval by the Engineer.

Girders to be cambered in accordance with details shown on sheet 42.

Girders to be fitted with bearing and intermediate stiffeners. Details and locations shown on sheets 22 and 23.

Girders to be fitted with shear connectors. Details shown on sheet 42.

A.S.T.M. STEEL CLASSIFICATION

Girders & Bearing Stiffeners	A 441
Field Splice Plates	A 440 or A 441
High Strength Bolts	A 325
Pedestals	
Pins	A 235 Class C1 or A 108 Grade 1016 to 1030 inclusive
Rocker & Masonry Plates	A 36
All others	A 7 or A 36
Expansion Dams	A 441
All other	A 7 or A 36

SPECIFICATIONS

Design: The American Association of State Highway Officials Standard Specifications for Highway Bridges, 1961 with Interim Specifications 1961.
Fabrication & Erection: State of Maine, State Highway Commission, Standard Specifications, Highways and Bridges, Revision of January 1956 as modified by Contract Specifications.
Welding: Standard Specifications for Welded Highway and Railway Bridges, American Welding Society, 1956, as modified by Contract Specifications.

DESIGN

Loading: H20-S16-44 as modified for Interstate Highways.
Allowable Stresses: In accordance with Design Specifications.

ERECTION PLAN & GIRDER ELEVATIONS

DESIGN- MCR
TRACE- PLA
CHECK- AHR

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

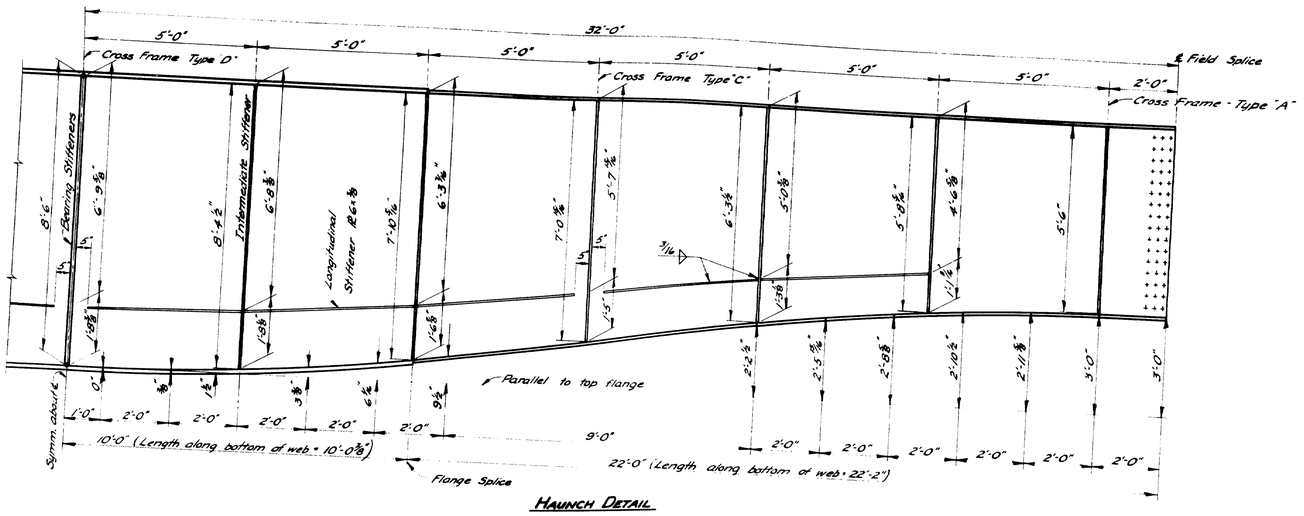
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
STEEL DETAILS SPANS 1-5 NB & SB

SHEET 41 OF 92 AUGUSTA, MAINE N.O.V. 1962

C. B. CO., NO. 3788 58749

0 1 2 3 4 5 INCHES

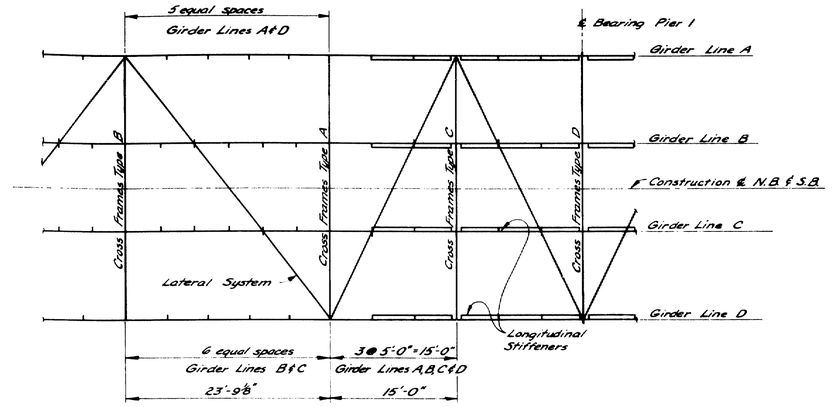
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	42	92



HAUNCH DETAIL

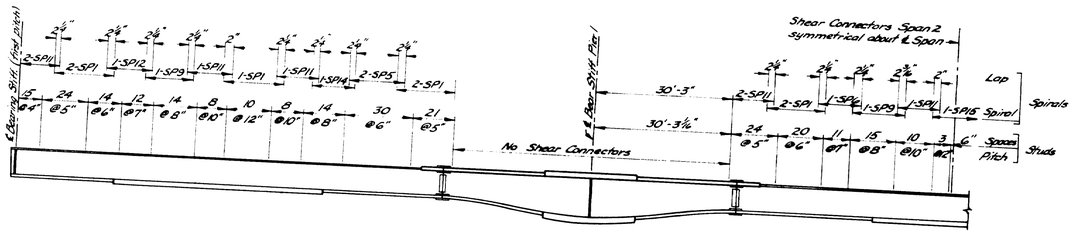
All Girder Lines

Note: Lateral gusset plates not shown. See sh's. 43 & 44.
For side of Girders on which intermediate & longitudinal stiffener plates are to be placed see Stiffener Location this sheet.



STIFFENER LOCATION

Note: All dimensions along steel (on -1.10% grade).
All intermediate stiffeners to be ℞ 6 x ⅜.
All stiffeners to be normal to top flange.
All bearing stiffeners to be in pairs.
All intermediate stiffeners to be one side of Web ℞ only except at cross frames and lateral system connections for Girder Lines B & C.
For stiffener and cross frame details see sh. 43.
For lateral system detail see sh. 44.
Intermediate stiffener spacing shown for 23'-9⅜" panel typical for all others except 15'-0" panels.

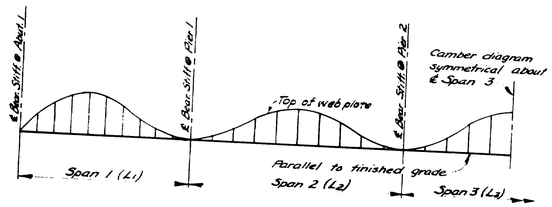


SPAN 1

Rotate 180° for Span 5

SPAN 2

Spans 3 & 4 identical

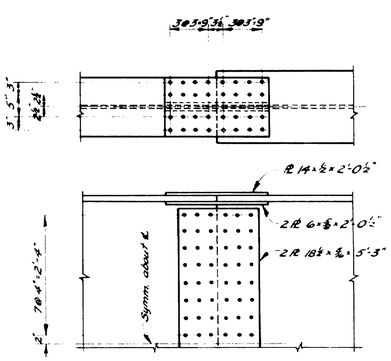


CAMBER DIAGRAM

All Girder Lines

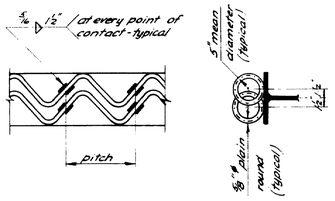
Span	Point	Camber
℄ Bear. Stiff.	0	0
1	.1L1	1"
	.2L1	1 7/16"
	.3L1	2 ¼"
	.4L1	2 ⅜"
	.5L1	2 ¼"
	.6L1	1 7/16"
	.7L1	1⅛"
	.8L1	9/16"
	.9L1	3/16"
℄ Bear. Stiff.	0	0
2	.1L2	4"
	.2L2	2 25/32"
	.3L2	1 ⅜"
	.4L2	1 1/16"
	.5L2	2 ⅜"
	.6L2	1 7/16"
	.7L2	1 1/16"
	.8L2	25/32"
	.9L2	¼"
℄ Bear. Stiff.	0	0
3	.1L3	¼"
	.2L3	25/32"
	.3L3	1 1/16"
	.4L3	2 1/16"
	.5L3	2 9/16"

Note: Camber ordinate at each Field Splice equals 1/16".



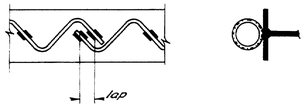
TYPICAL GIRDER FIELD SPLICE

⅞" ℗ H.S. Bolts; 15/16" ℗ holes



DOUBLE SPIRALS

Indicated by "2" in layout



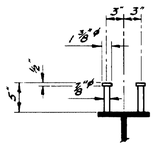
SINGLE SPIRALS

Indicated by "1" in layout

SHEAR CONNECTOR LAYOUT

All Girder Lines

SPIRAL TABLE				
Spiral	Number	Spaces	Pitch	Length
SP1	176	20	7"	11'-8"
SP5	32	16	8"	10'-8"
SP6	48	24	4"	8'-0"
SP9	64	24	5"	10'-0"
SP11	208	16	6"	8'-0"
SP12	16	25	4"	8'-4"
SP14	16	20	5"	8'-4"
SP15	24	12	7"	7'-0"



STUD DETAIL

2 studs @ each pitch
13,536 Required
Note: Pitch and transverse spacing may be revised slightly at girder field splices to clear H.S. Bolts.

SHEAR CONNECTOR DETAILS

Note: See Sh. 50 for "Shear Connector Note" and Shear Connectors for Spans 6 & 7 N.B. and 6, 7 & 8 S.B.

HAUNCH DETAIL, STIFFENER LOCATION, SHEAR CONNECTORS, CAMBER DIAGRAM, GIRDER FIELD SPLICE

DESIGN—M.C.R.	BRIDGE NO.
TRACE—J.W.M.	SURVEY—
CHECK—A.H.P.	PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

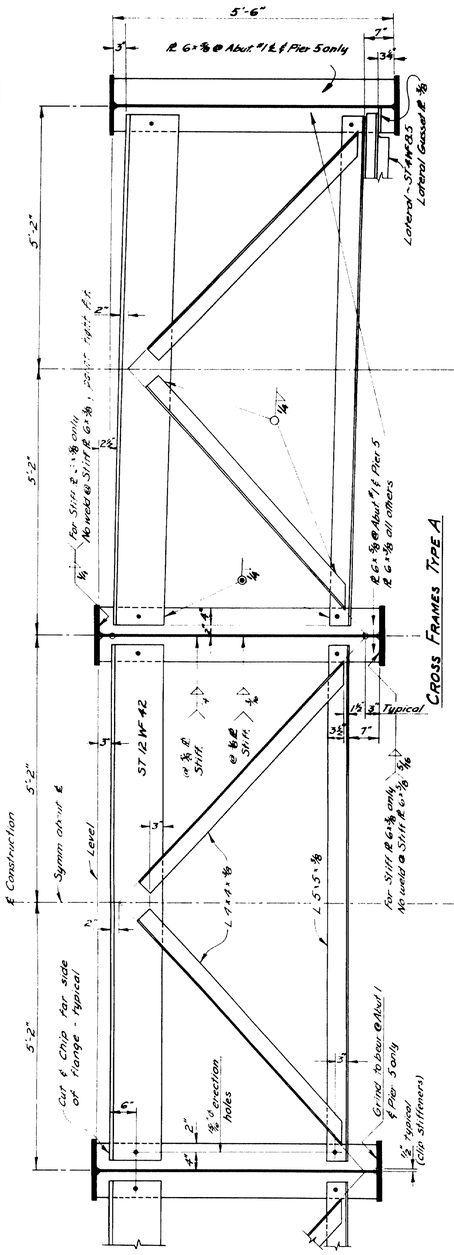
STEEL DETAILS SPANS 1-5 NB & SB

SHEET 42 OF 92 AUGUST [redacted] 1962

C. B. CO., NO. 3788

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	43	92



Note: Exterior Girder Stiffeners shall have the same welds as the Interior Girder Stiffeners.

CROSS FRAMES

DESIGN- M.C.R.	BRIDGE NO.
TRACE- J.W.M.	SURVEY-
CHECK- A.H.R	PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

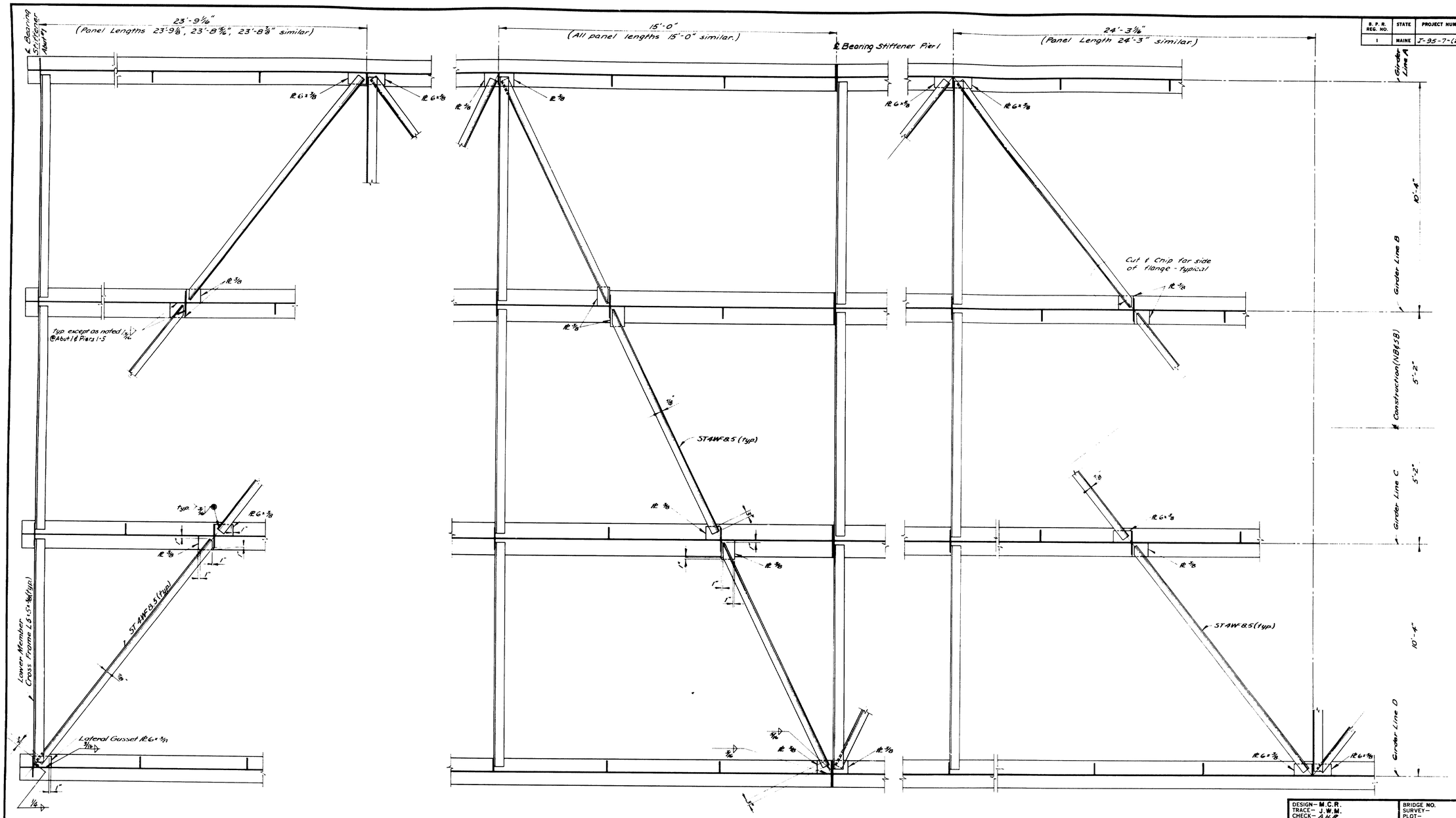
STEEL DETAILS SPANS 1-5 NB & SB

SHEET 43 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO 3788 25767

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-95-7-(28)	44	92



LATERAL SYSTEM DETAILS

Dimensions along steel (on -1.10% grade)

0 1 2 3 4 5 INCHES

C. B. CO. NO 3788 28147

DESIGN– M.C.R. TRACE– J.W.M. CHECK– A.H.P.	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

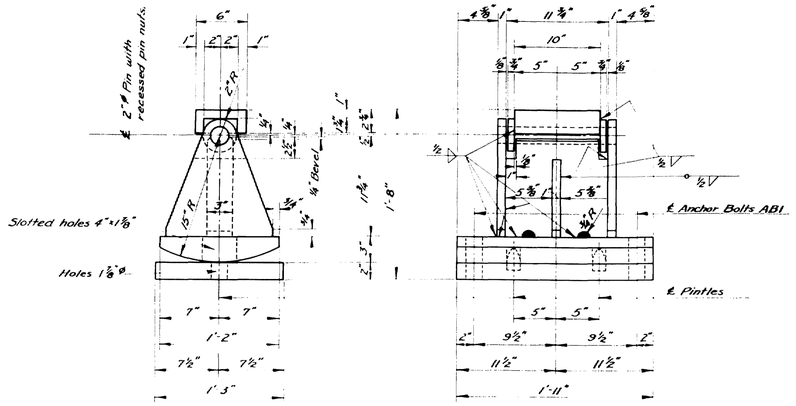
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

STEEL DETAILS SPANS 1-5 NB & SB

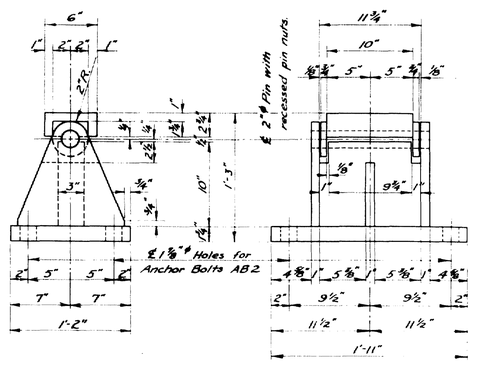
SHEET 44 OF 92 AUGUSTA, MAINE, NOV., 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	45	92



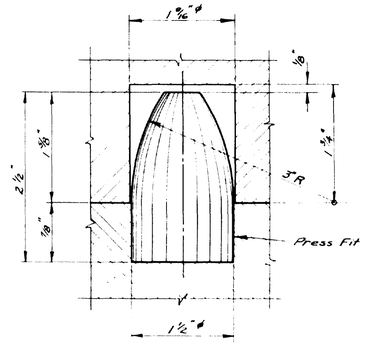
EXPANSION PEDESTAL-ABUTMENT / N.B. & S.B.

8 Required
Welding typical

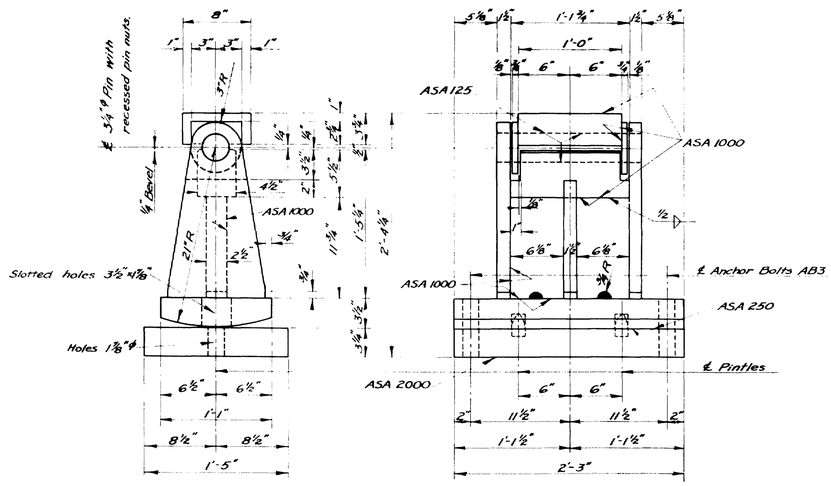


FIXED PEDESTAL PIER 5, SPAN 5 N.B. & S.B.

8 Required

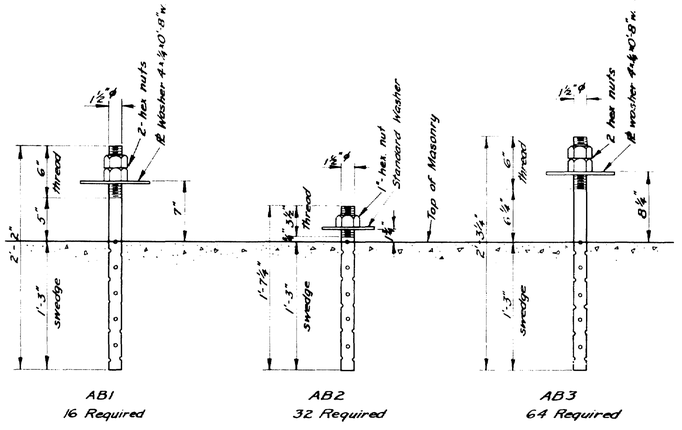


PINTLE DETAIL



EXPANSION PEDESTAL - PIERS 1,2,3 & 4; N.B. & S.B.

32 Required
ASA finish typical

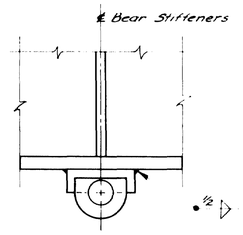


AB1
16 Required

AB2
32 Required

AB3
64 Required

ANCHOR BOLTS



TYPICAL WELDING DETAIL

Sole ℄ to Girder

Note: Set Rockers plumb at 45° F.

PEDESTAL DETAILS

DESIGN – M.C.R. TRACE – J.W.M. CHECK – A.H.P.	BRIDGE NO. SURVEY – PLOT –

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

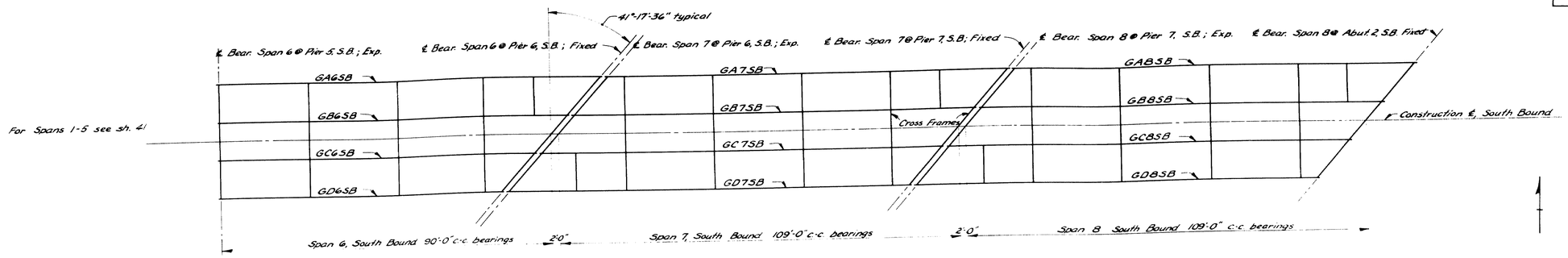
STEEL DETAILS SPANS 1-5 NB & SB

SHEET 45 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO. 3788 45797

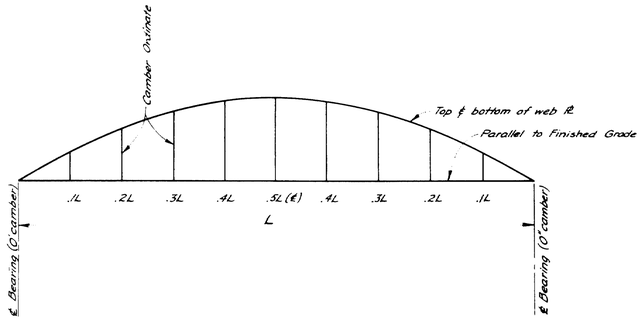
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	SH
1	MAINE	I-95-7(28)	46	92



ERECTION PLAN

Dimensions horizontal.
For location and type of cross frames see sh. 48



Girder	Camber Ordinate @ .1L	.2L	.3L	.4L	.5L	Max. Camber Tolerance @ .5L
GA6SB	1"	1 1/8"	2 3/16"	3"	3 3/8"	± 3/8"
GB6SB	13/16"	1 9/16"	2 1/8"	2 1/2"	2 5/8"	± 5/16"
GC6SB	5/8"	1 3/16"	1 5/8"	1 7/8"	2"	± 5/16"
GD6SB	7/16"	3/4"	1 1/16"	1 1/4"	1 5/16"	± 1/4"
GA6NB	1 5/8"	2 3/8"	3 3/8"	4 1/2"	4 11/16"	± 7/16"
GB6NB	1 5/16"	2 1/2"	3 5/16"	3 7/8"	4"	± 3/8"
GC6NB	1 1/16"	1 15/16"	2 5/8"	3 1/16"	3 3/16"	± 3/8"
GD6NB	13/16"	1 9/16"	2 1/8"	2 7/16"	2 5/16"	± 5/16"
* 109'(all)	1 3/16"	2 1/8"	2 7/8"	3 3/8"	3 1/2"	± 3/8"

* GA,B,C,D 7SB; GA,B,C,D8 SB; GA,B,C,D 7NB (12 Girders for Spans 7 & 8 South Bound and Span 7 North Bound)

CAMBER DIAGRAM

Note: For loading, specifications, unit stresses, and steel classifications, see sh. 41.

ERECTION PLAN & CAMBER DIAGRAM

DESIGN- M.C.R.
TRACE- J.W.M.
CHECK- J.F.H.
BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

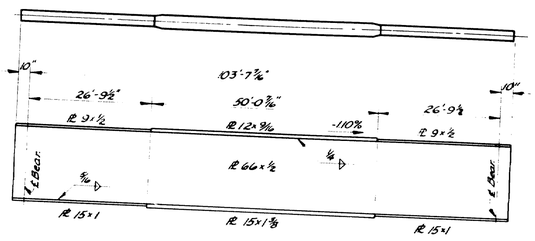
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

STEEL DETAILS SPANS 6&7 NB AND 6,7,&8 SB

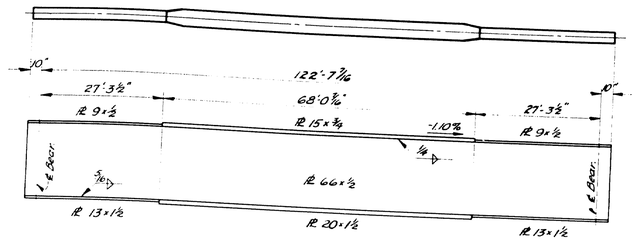
SHEET 46 OF 92 AUGUSTA, MAINE NOV. 1962

C. S. CO., NO 3788 33787

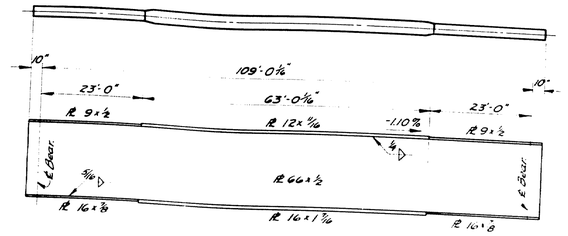
B. P. R. REG. NO.	STATE	PROJECT NUM.
1	MAINE	I-95-7(28)



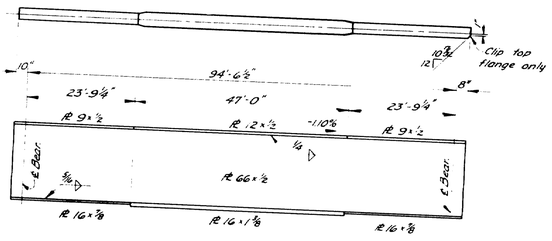
GA6SB



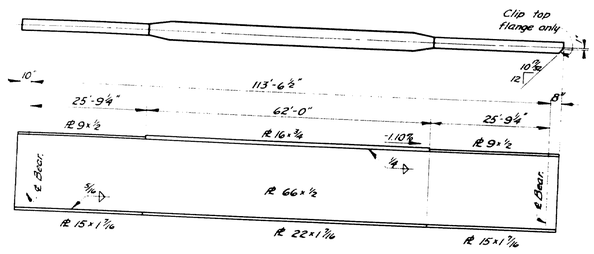
GA6NB



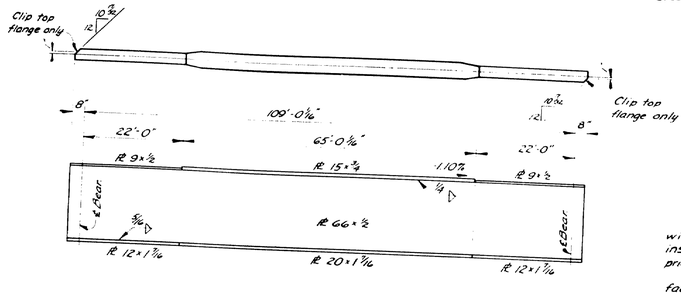
GA, D7SB
2 Required



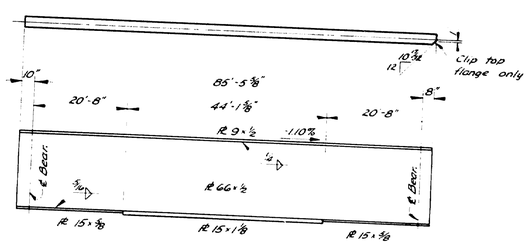
GB6SB



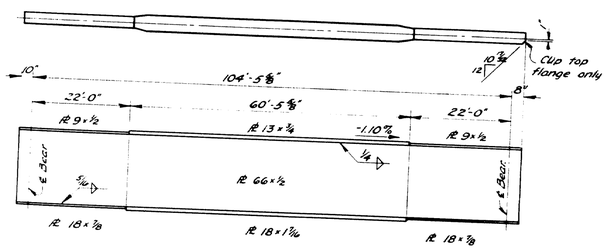
GB6NB



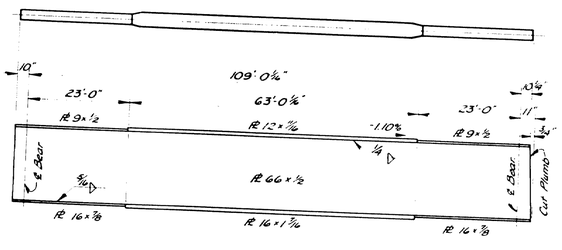
GB, C7SB
2 Required



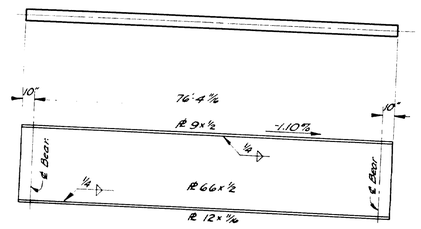
GC6SB



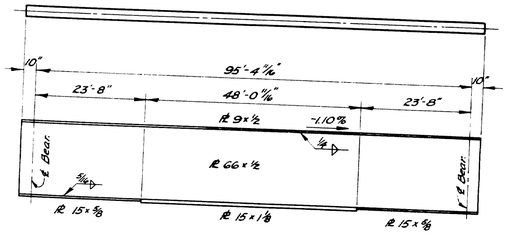
GC6NB



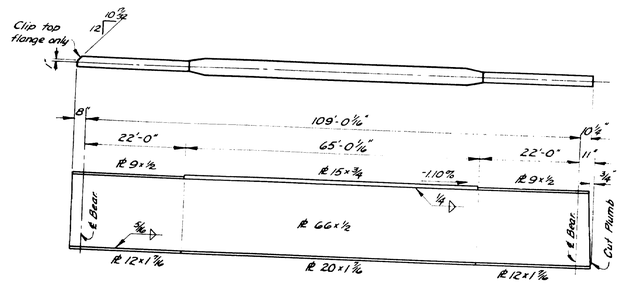
GA, D8SB; GA, D7NB
4 Required



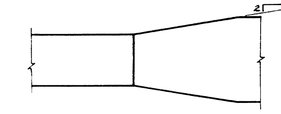
GD6SB



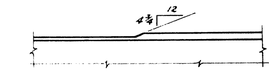
GD6NB



GB, C8SB; GBC7NB
4 Required



FLANGE BUTT WELD @ WIDTH CHANGE



FLANGE BUTT WELD @ THICKNESS CHANGE

Note: "Single Vee Butt Weld" to be used when either plate is 1" or less in thickness. "Double Vee Butt Weld" to be used when both plates are over 1" in thickness. Structural Steel Fabricator to furnish details.

GIRDER FABRICATION NOTE
SPANS 6&7NB AND 6,7&8SB

Flanges are to be butt welded in accordance with above details and the specifications and inspected in conformance with the specifications prior to being fillet welded to the web plates.

The Steel Fabricator at his option may fabricate the webs for each girder from a maximum of three plates by the use of transverse butt welds. If butt welds are used they shall be made and inspected in conformance with the specifications before the web plates are fillet welded to the flange plates. The location and detail of butt welds in the webs shall be subject to approval of the Engineer.

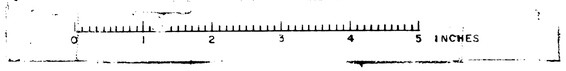
Girder dimensions are along steel.

Girders to be cambered in accordance with details shown on sheet 46 .

The ends of girders shall be cut normal to flanges unless otherwise detailed

Girders to be fitted with bearing and intermediate stiffeners. Details and locations shown on sheets 48 and 49 .

Girders to be fitted with shear connectors Details shown on sheet 50.



GIRDER DETAILS

DESIGN-M.C.R. TRACE-J.W.M. CHECK-T.A.K.	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

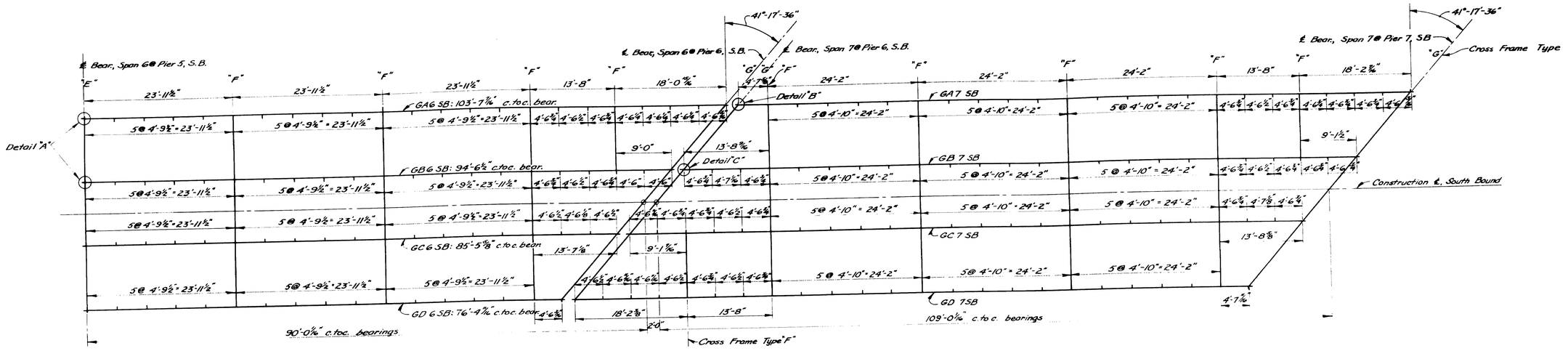
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

STEEL DETAILS SPANS 6&7 NB AND 6,7&8SB

SHEET 47 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO. 3766 28767

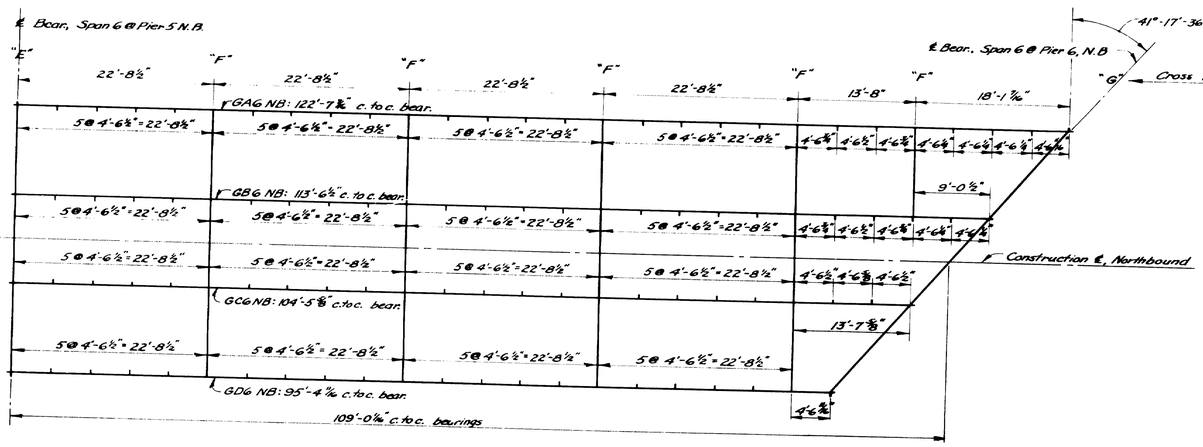
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I- 95- 7(28)	48	92



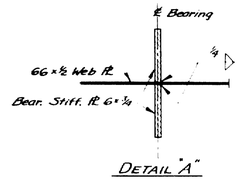
SPAN 6, SOUTH BOUND

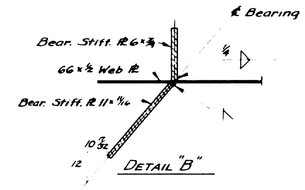
SPAN 7, SOUTH BOUND

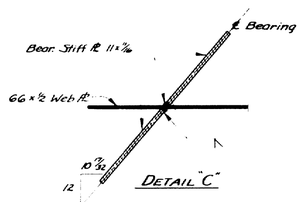
Note: Skew to ℄ Bearings, stiffener spacing and cross frame location and type identical for Span 8, South Bound and Span 7, North Bound.



SPAN 6, NORTH BOUND







BEARING STIFFENERS - WEB Pl. CONNECTION DETAILS

Note: See sh. 49 for additional details

CROSS FRAME & STIFFENER LOCATION

Note: All intermediate stiffeners to be Pl. 6 x ⅜
All dimensions along steel (i.e. on -1.10% grade)
All stiffeners to be normal to flanges.
All intermediate stiffeners to be on one side of web Pl. only except at cross frames for interior girders.
For intermediate stiffener and cross frame details see sh. 49.

STIFFENER & CROSS FRAME LOCATIONS

DESIGN- M.C.R. TRACE- J.W.M. CHECK- T.H.K.	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

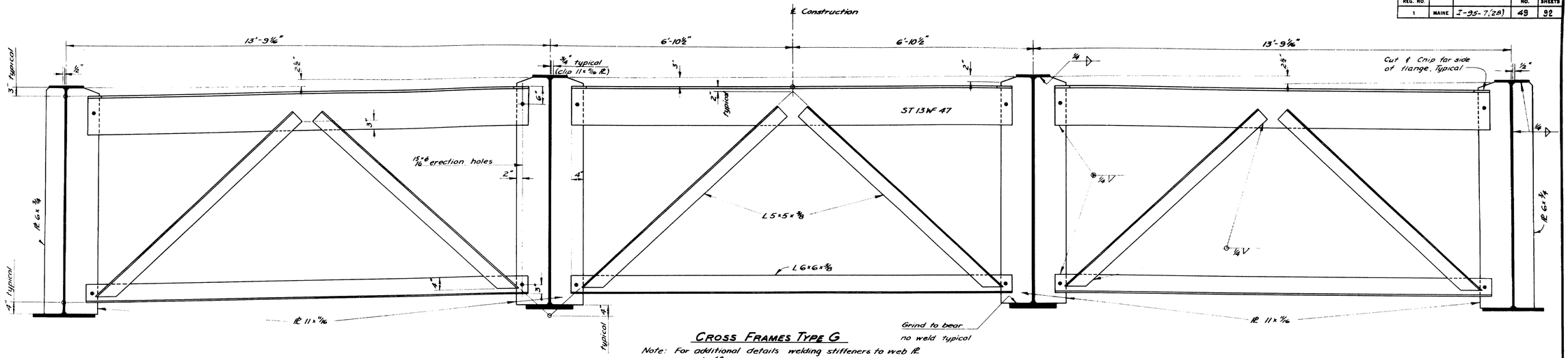
STEEL DETAILS; SPANS 6 & 7 NB AND 6, 7 & 8 SB

SHEET 48 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO. 3788 58767

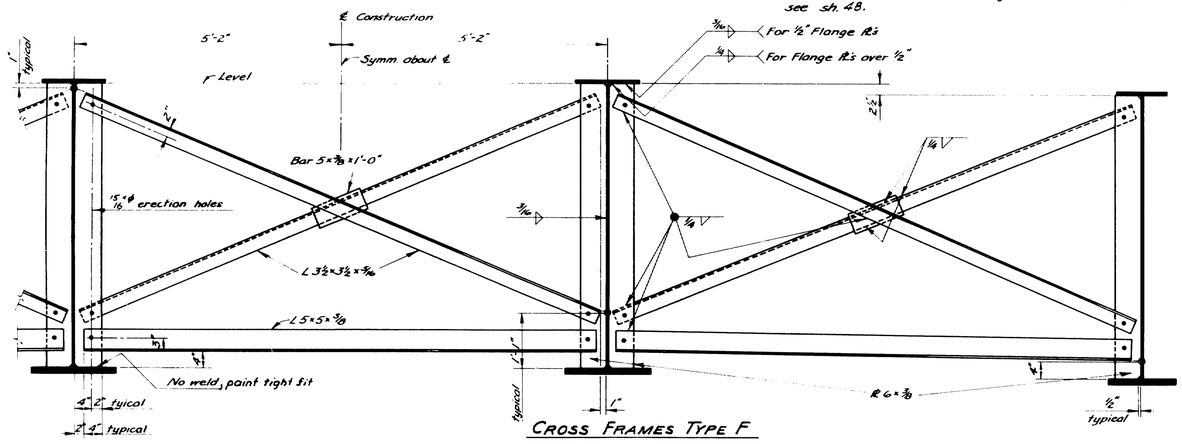
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	49	92



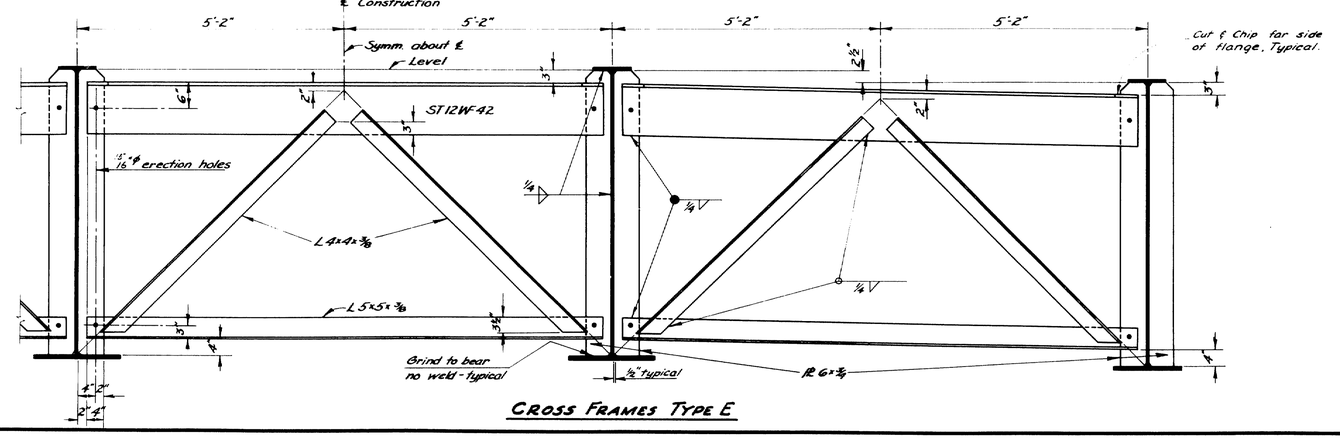
CROSS FRAMES TYPE G

Note: For additional details welding stiffeners to web PL see sh. 48.



CROSS FRAMES TYPE F

Note: Welding stiffeners to girders is typical for intermediate stiffeners.



CROSS FRAMES TYPE E

CROSS FRAMES

DESIGN - M.C.R.
TRACE - J.W.M.
CHECK - T. H. K.

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

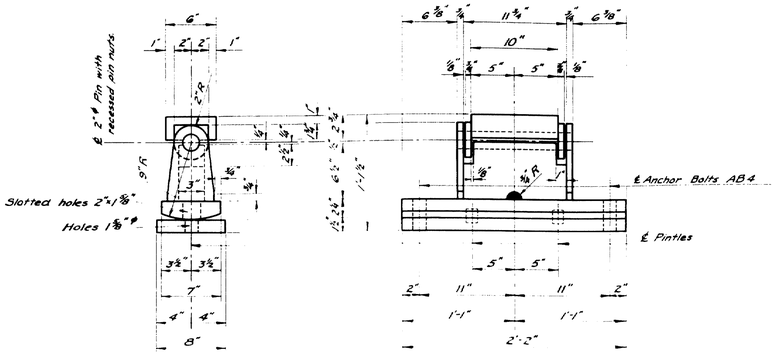
STEEL DETAILS; SPANS 6 & 7 NB AND 6, 7 & 8 SB

SHEET 49 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO 37915 29767

0 1 2 3 4 5 INCHES

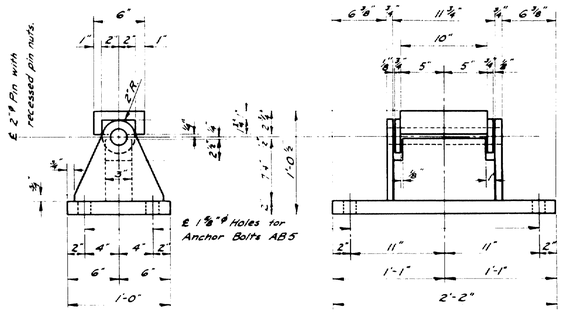
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-95-7(28)	50	92



EXPANSION PEDESTAL

20 Required
4 each required @ Pier 5, Span 6 N.B.
Pier 6, Span 7 N.B.
Pier 5, Span 6 S.B.
Pier 6, Span 7 S.B.
Pier 7, Span 8 S.B.

Note: For pedestal welding and ASA finishes see sh. 45.

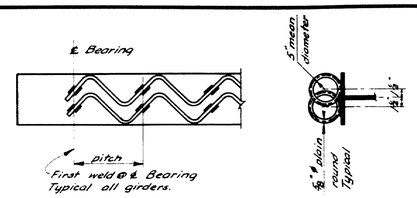


FIXED PEDESTAL

20 Required
4 each required @ Pier 6, Span 6 N.B.
Abut. 2, Span 7 N.B
Pier 6, Span 6 S.B.
Pier 7, Span 7 S.B.
Abut. 2, Span 8 S.B.

TYPICAL WELDING DETAIL

Sole ℄ to Girder



DOUBLE SPIRALS

Indicated by "2" in table

SINGLE SPIRALS

Indicated by "1" in table.

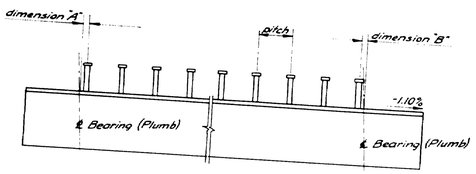
TABLE OF SPIRAL LOCATIONS

Girder	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral
GA6SB	2-SP1	3¾"	2-SP2	3"	1-SP3	3"	1-SP4	3"	1-SP5*	3"							1-SP4	3"	1-SP3	3"	2-SP2	3¾"	2-SP1
GB6SB	2-SP4	2½"	2-SP1	2⅝"	1-SP6	2⅝"	1-SP3	2⅝"	1-SP7	2⅝"							1-SP3	2⅝"	1-SP6	2⅝"	2-SP1	2½"	2-SP4
GC6SB	2-SP4	3½"	2-SP1	3"	1-SP6	3"	1-SP8	3⅜"									1-SP8	3"	1-SP6	3"	2-SP1	3½"	2-SP4
GD6SB	2-SP1	2⅝"	1-SP6	2⅝"	1-SP9	2¾"	1-SP7	2¹¹⁄₁₆"									1-SP7	2⅝"	1-SP9	2¾"	1-SP6	2⅝"	2-SP1
GA6NB	2-SP1	2¼"	2-SP2	2⅝"	1-SP6	2½"	1-SP9	2½"	1-SP8	2½"	1-SP10	2⅝"	1-SP10	2½"	1-SP8	2½"	1-SP9	2½"	1-SP6	2¼"	2-SP2	2⅝"	2-SP1
GB6NB	2-SP8	3"	2-SP1	3"	2-SP2	3"	1-SP9	3"	1-SP11	2⅝"	1-SP5	2¾"			1-SP11	3"	1-SP9	3"	2-SP2	3"	2-SP1	3"	2-SP8
GC6NB	2-SP4	2½"	2-SP1	2⅝"	1-SP12	2½"	1-SP3	2½"	1-SP7	2⅝"					1-SP7	2½"	1-SP3	2½"	1-SP12	2½"	2-SP1	2⅝"	2-SP4
GD6NB	2-SP1	3½"	2-SP2	3½"	1-SP3	3⅝"	1-SP11	3¼"	1-SP13	3¼"							1-SP11	3¼"	1-SP3	3½"	2-SP2	3½"	2-SP1
* 109'(all)	2-SP4	2½"	2-SP1	2⅝"	2-SP5	2⅝"	1-SP3	2⅝"	1-SP7	2½"					1-SP7	2⅝"	1-SP3	2⅝"	2-SP5	2⅝"	2-SP1	2½"	2-SP4

* GA, B, C, D 7 SB; GA, B, C, D 8 SB; GA, B, C, D 7 NB (12 Girders for Spans 7 & 8 South Bound and Span 7 North Bound)

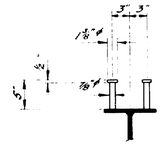
SHEAR CONNECTOR NOTE

Dimensions and layout of shear connectors given along steel (on -1.10% grade) Spiral reinforcing or studs may be used at the option of the contractor. If studs are used they shall be granular or solid film fillet and automatically end welded to top flange plates in the shop or field. Studs are a patented product. If the Contractor elects to use them he shall pay the royalty and payment to the Contractor will be included in the lump sum price paid for "Shear Connectors," Item 705-17.



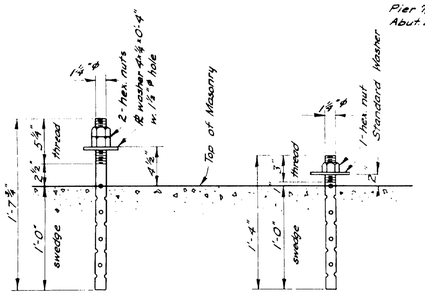
STUD DETAIL

2 studs @ each pitch



SPIRAL TABLE

Spiral	Number	Spaces	Pitch	Length
SP1	36	20	7"	11'-8"
SP2	16	18	8"	12'-0"
SP3	10	26	5"	10'-10"
SP4	18	26	6"	13'-0"
SP5	6	16	8"	10'-8"
SP6	8	24	4"	8'-0"
SP7	7	16	7"	9'-4"
SP8	8	22	6"	11'-0"
SP9	6	24	5"	10'-0"
SP10	2	13	9"	9'-9"
SP11	4	16	6"	8'-0"
SP12	2	25	4"	8'-4"
SP13	1	19	8"	12'-8"



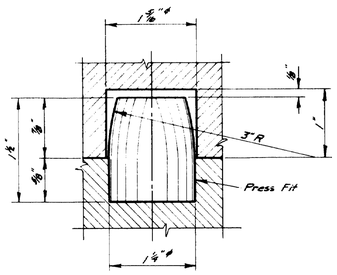
AB4

40 Required

AB5

80 Required

ANCHOR BOLTS



PINTLE DETAIL

TABLE OF STUD LOCATIONS

Girder	Dim. "A"	Number of Spaces of a pitch of: 4"	5"	6"	7"	8"	9"	10"	12"	10"	9"	8"	7"	6"	5"	4"	Dim. "B"
GA6SB	¾"		24	20	21		16		15		16		21	20	24		11/16"
GB6SB	¼"	25	20	16	16		11		10		11		16	16	20	25	¼"
GC6SB	13/16"	24	18	17	14		10		6		10		14	17	18	24	13/16"
GD6SB	5/16"		20	20		15		7	8	7		15		20	20		5/8"
GA6NB	¾"		24	20	17	16		14	18	14		16	17	20	24		11/16"
GB6NB	¼"	25	23	20	12	12		10	11	10		12	12	20	23	25	¼"
GC6NB	13/16"	24	23	21	16		13		10		13		16	21	23	24	13/16"
GD6NB	5/16"		20	17	14	12		8	16	8		12	14	17	20		3/8"
* 109'(all)	0"	18	30	22	15		13		13		13		15	22	30	18	1/16"

7944 studs required

* GA, B, C, D 7 SB; GA, B, C, D 8 SB; GA, B, C, D 7 NB (12 Girders for Spans 7 & 8 South Bound and Span 7 North Bound)

Note: For shear connectors spans 1-5 see sh. 42.

PEDESTALS & SHEAR CONNECTORS

DESIGN- M.C.R.
TRACE- J.W.M.
CHECK- T.H.K.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

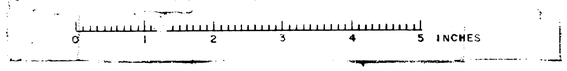
BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

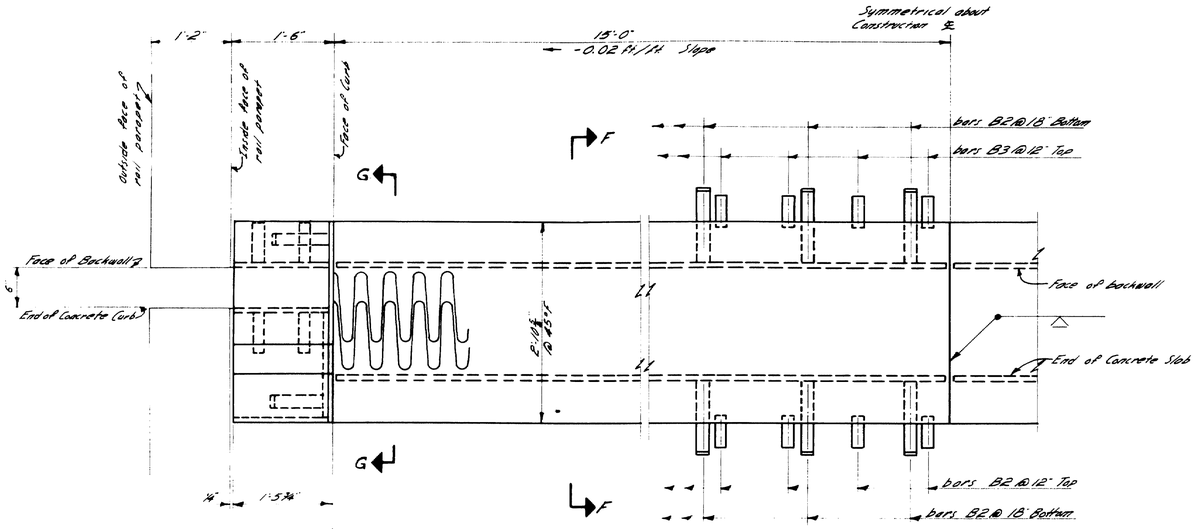
STEEL DETAILS; SPANS 6 & 7 NB AND 6, 7 & 8 SB

SHEET 50 OF 92 AUGUSTA, MAINE NOV. 1962

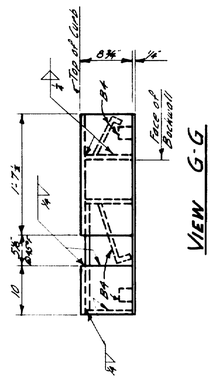
C. B. CO., NO 3798 10-62

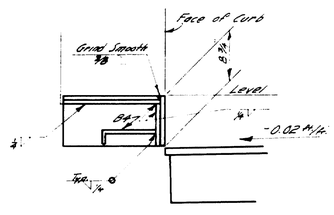


B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	51	92



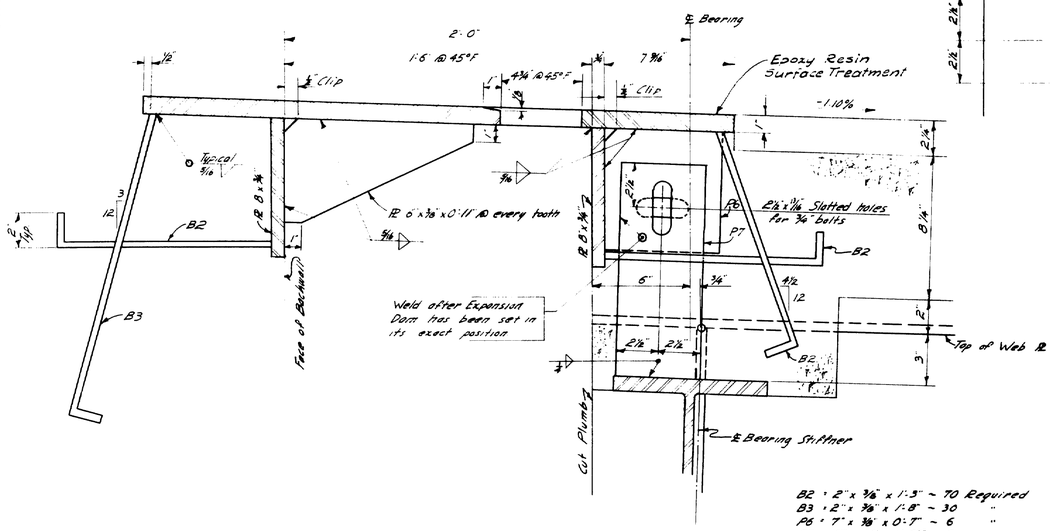
EXPANSION DAM PLAN FOR ABUTMENT "1 N.B. AND "1 S.B.





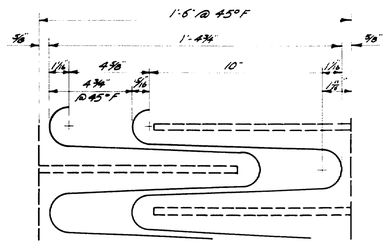
CURB EXPANSION DAM

All plates to be ⅜" thick.
B4 = 2"x ⅜" x 1'-0" - 6 required.



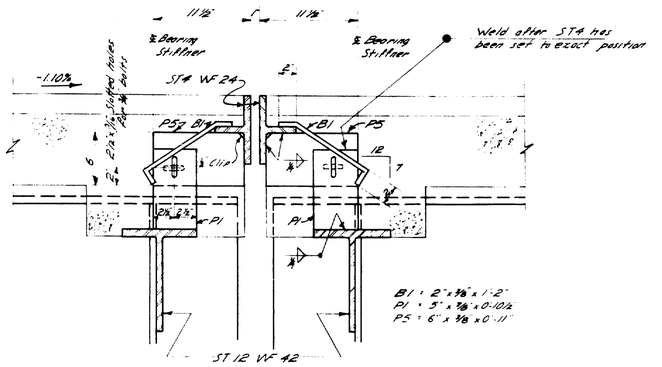
B2 = 2"x ⅜" x 1'-3" - 70 Required
B3 = 2"x ⅜" x 1'-8" - 30 "
P6 = 7"x ⅜" x 0'-7" - 6 "
P7 = 5"x ⅜" x 1'-0½" - 6 "

SECTION F·F



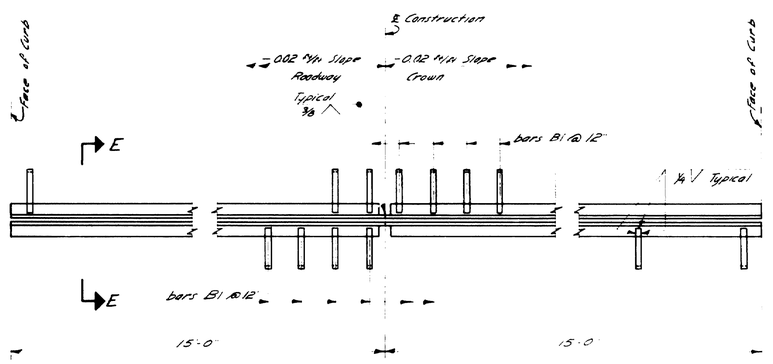
TOOTH DETAIL

Cut from PL 30x1"



SECTION E·E

4 P1 & 4 P5 required for each side of armored joint



ARMORED JOINT FOR PIERS "5 N.B AND "5 S.B.

DESIGN- M.F.R. TRACE- M.F.A. CHECK- A.H.W.	DET- T.H.K.	BRIDGE NO SURVEY - PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

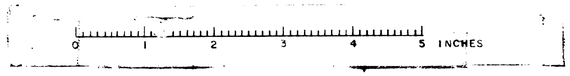
BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

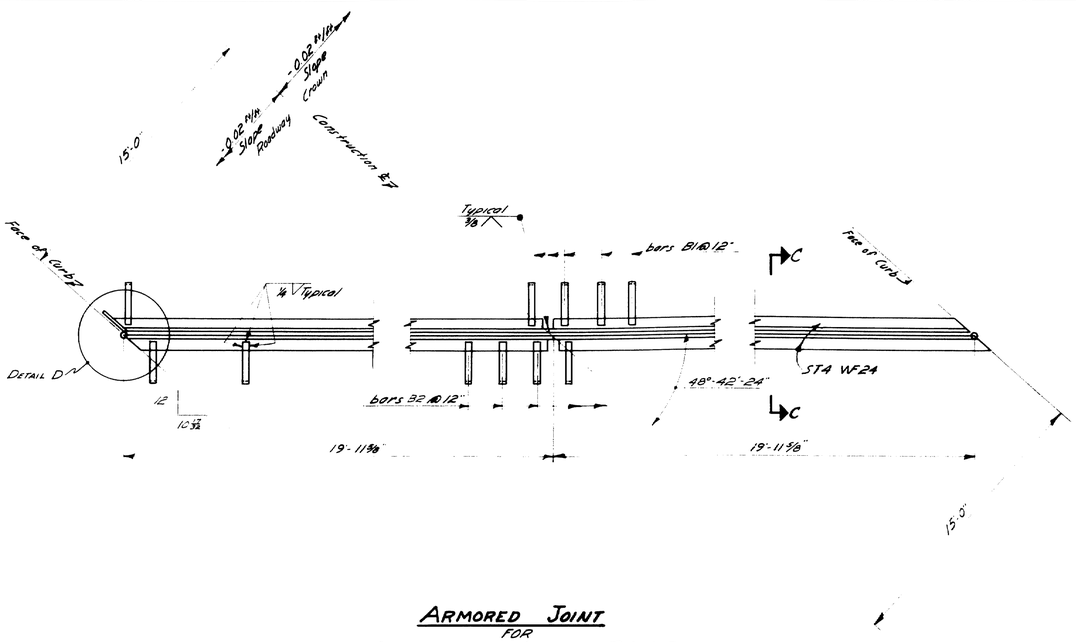
EXPANSION DAM AND ARMORED JOINT

SHEET 51 OF 92 AUGUSTA, MAINE NOV. 1962

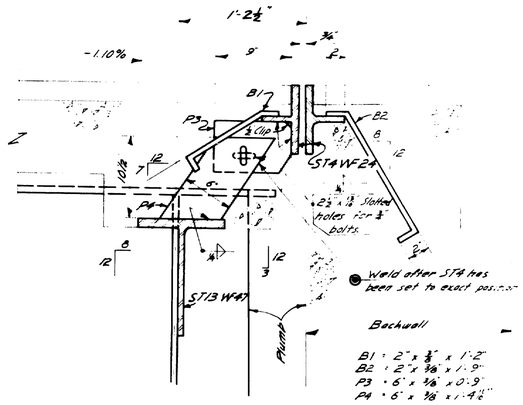
C. B. CO., NO 3798 48197



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	52	92

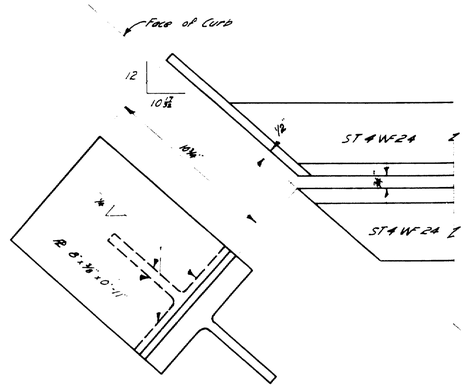


ARMORED JOINT FOR ABUTMENT #2 N.B AND #2 S.B.

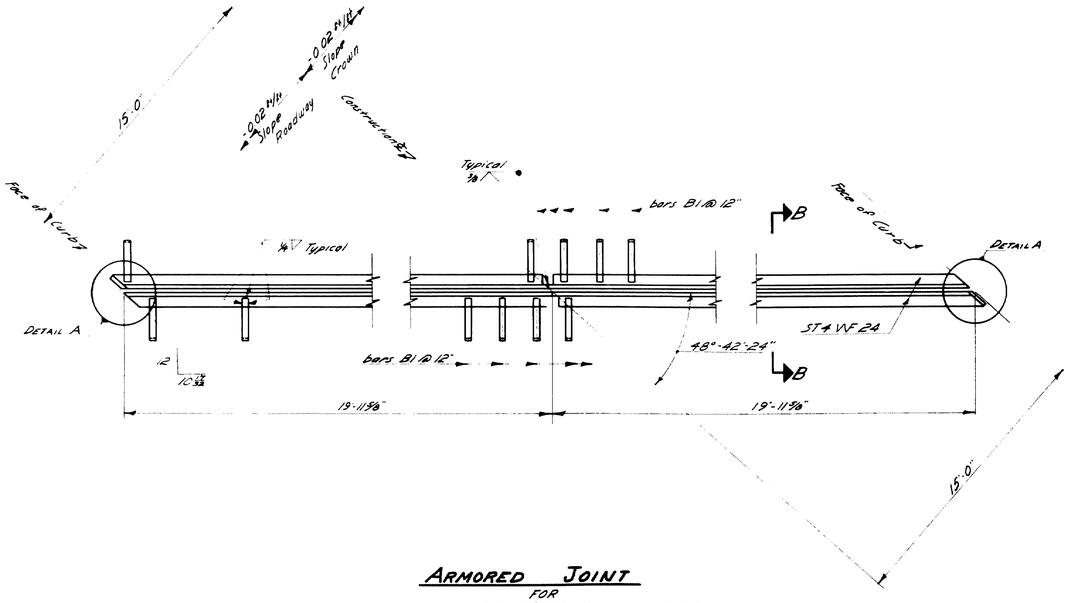


SECTION C-C

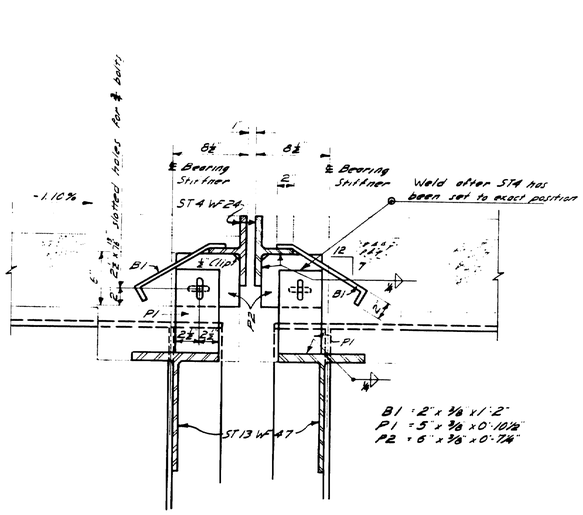
4 P3 & 4 P4 required per sab side of armored joint



DETAIL D

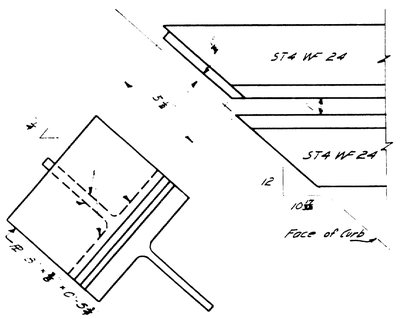


ARMORED JOINT FOR PIERS #6 & #7 S.B., AND #6 N.B.



SECTION B-B

4 P1 & 4 P2 required for each side of armored joint



DETAIL A

DESIGN—M.C.R. DFT.-T.H.K. TRACE—R.T.A. CHECK—A.H.R.	BRIDGE NO. SURVEY— PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

ARMORED JOINTS

SHEET 52 OF 92 AUGUSTA, MAINE NOV. 1962

C.B. CO., NO 3788 10-57

0 1 2 3 4 5 INCHES

H.P.R. REV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	53	92

BOTTOM OF SLAB ELEVATIONS

SPANS #1-#5 S.B. & N.B.

GIRDERS	SPAN #1										SPAN #2										SPAN #3										SPAN #4										SPAN #5									
	℄ Brg Abut #1	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #1	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #2	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #3	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #4	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Abut #5
Girder A	125.35	125.28	125.20	125.10	124.98	124.83	124.65	124.46	124.29	124.12	123.97	123.81	123.67	123.55	123.42	123.27	123.08	122.87	122.64	122.43	122.24	122.09	121.97	121.85	121.73	121.57	121.38	121.16	120.93	120.71	120.52	120.36	120.23	120.10	119.97	119.81	119.62	119.45	119.16	118.97	118.79	118.61	118.56	118.46	118.37	118.27	118.5	118.00	117.82	117.63	117.41
" B	125.35	125.29	125.21	125.11	125.18	125.03	124.86	124.67	124.50	124.33	124.18	124.02	123.88	123.76	123.63	123.47	123.28	123.07	122.85	122.64	122.45	122.30	122.18	122.06	121.93	121.78	121.59	121.37	121.14	120.92	120.72	120.57	120.43	120.31	120.19	120.02	119.83	119.6	119.39	119.18	119.00	118.87	118.76	118.66	118.58	118.48	118.35	118.20	118.03	117.83	117.62
" C	125.35	125.29	125.21	125.11	125.18	125.03	124.86	124.67	124.50	124.33	124.18	124.02	123.88	123.76	123.63	123.47	123.28	123.07	122.85	122.64	122.45	122.30	122.18	122.06	121.93	121.78	121.59	121.37	121.14	120.92	120.72	120.57	120.43	120.31	120.19	120.02	119.83	119.6	119.39	119.18	119.00	118.87	118.76	118.66	118.58	118.48	118.35	118.20	118.03	117.83	117.62
" D	125.35	125.28	125.20	125.10	124.98	124.83	124.65	124.46	124.29	124.12	123.97	123.81	123.67	123.55	123.42	123.27	123.08	122.87	122.64	122.43	122.24	122.09	121.97	121.85	121.73	121.57	121.38	121.16	120.93	120.71	120.52	120.36	120.23	120.10	119.97	119.81	119.62	119.45	119.16	118.97	118.79	118.61	118.56	118.46	118.37	118.27	118.15	118.00	117.82	117.63	117.41

L = Span Length, center to center of Bearings

SPANS #6, #7 & #8 S.B.

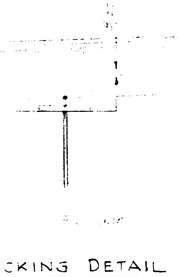
GIRDERS	SPAN #6										SPAN #7										SPAN #8									
	℄ Brg Abut #6	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #7	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Pier #7	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Abut #8
Girder A	119.3	119.35	117.39	117.25	117.1	116.94	116.79	116.7	116.61	116.44	116.27	116.1	116.0	115.93	116.76	115.95	115.83	115.74	115.58	115.4	115.23	115.33	115.01	114.97	114.91	114.84	114.76	114.65	114.52	114.36	114.2	114.0	113.81	113.6	113.4	113.2	113.0	112.81	
" B	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.15	116.05	115.90	115.73	115.54	115.34	115.12	115.08	115.03	114.96	114.89	114.78	114.65	114.49	114.33	114.13	113.94	113.73	113.53	113.33	113.13	112.94	
" C	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.15	116.05	115.90	115.73	115.54	115.34	115.12	115.08	115.03	114.96	114.89	114.78	114.65	114.49	114.33	114.13	113.94	113.73	113.53	113.33	113.13	112.94	
" D	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.15	116.05	115.90	115.73	115.54	115.34	115.12	115.08	115.03	114.96	114.89	114.78	114.65	114.49	114.33	114.13	113.94	113.73	113.53	113.33	113.13	112.94	

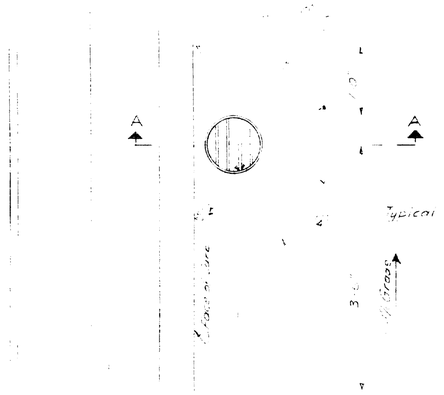
SPANS #6 & #7 N.B.

GIRDERS	SPAN #6										SPAN #7										
	℄ Brg Abut #6	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Pier #7	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Abut #8
Girder A	119.3	119.35	117.39	117.25	117.1	116.94	116.79	116.7	116.61	116.44	116.27	116.1	116.0	115.93	115.86	115.77	115.68	115.58	115.4	115.23	115.33
" B	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.24	116.17	116.08	115.97	115.84	115.69	115.52	115.33	115.12	114.9	114.68	114.46	114.25	114.05	113.86	113.68	113.52	113.37	113.24	113.12	113.02	112.93	
" C	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.24	116.17	116.08	115.97	115.84	115.69	115.52	115.33	115.12	114.9	114.68	114.46	114.25	114.05	113.86	113.68	113.52	113.37	113.24	113.12	113.02	112.93	
" D	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.24	116.17	116.08	115.97	115.84	115.69	115.52	115.33	115.12	114.9	114.68	114.46	114.25	114.05	113.86	113.68	113.52	113.37	113.24	113.12	113.02	112.93	

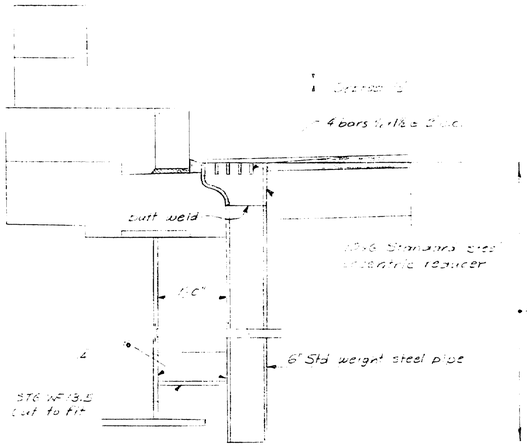
NOTES:
Elevations for spans 6, 7 & 8 are based on the final profile grade elevations at the bottom of slab at the center of the span. Intermediate elevations are obtained by straight line interpolation between the above forms are started.

BLOCKING DETAIL





PLAN



SECTION A-A

NOTES:
Payment for steel pipe drains to be included in the lump sum contract cost for Structural Steel, Items 703.103 S, 702.104 S and 703.10 B.

DRAIN DETAILS

DESIGNED
DRAWN
TRACED
CHECKED

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

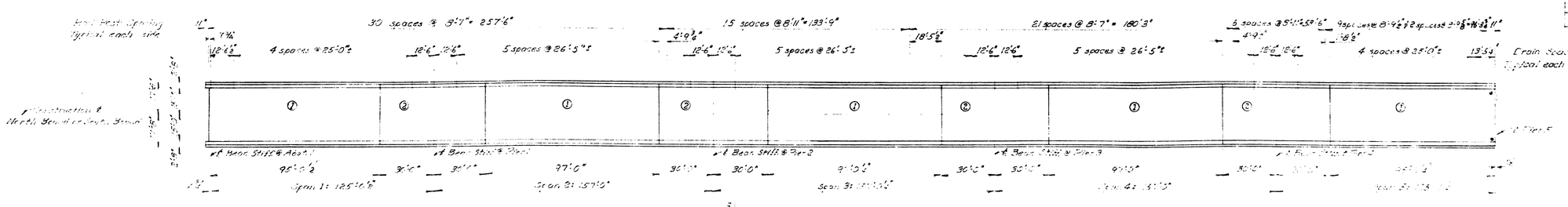
CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

BLOCKING & DRAINS

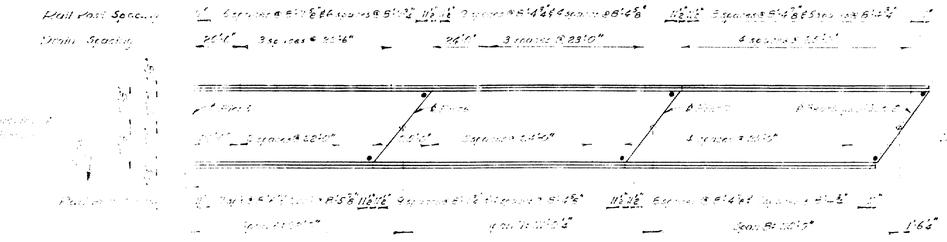
SHEET 53 OF 92 SHEETS AUG. [redacted] NOV. 1962

FED. AID PROJ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	54	92

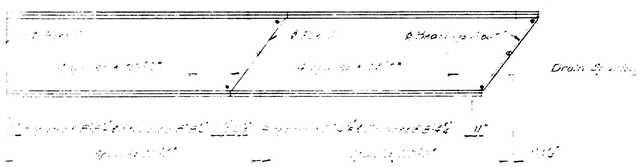


LAYOUT PLAN - SPANS 1 THRU 5

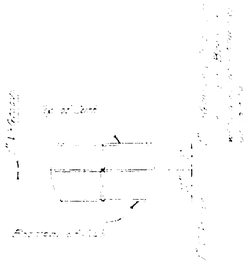
North Bound & South Bound Structures
Plans of piers numbered 1 thru 5 are identical



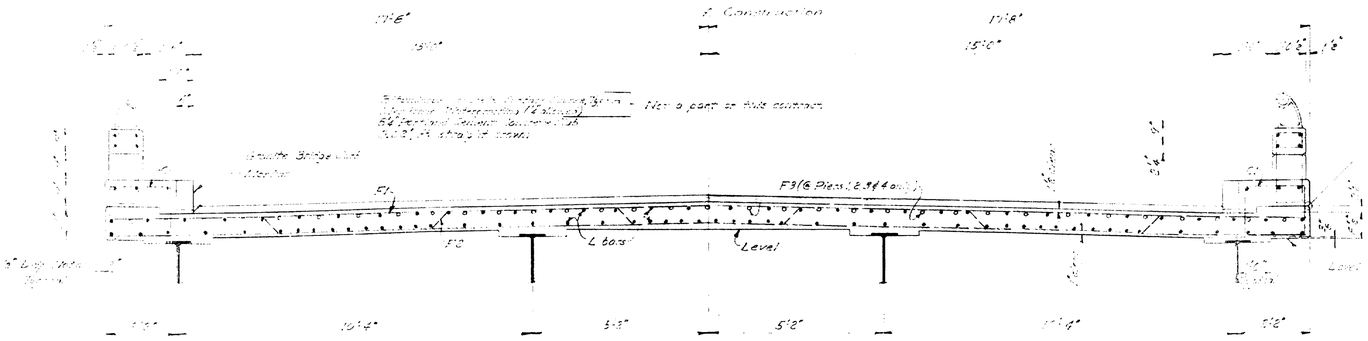
LAYOUT PLAN - SPANS 6, 7 & 8 SOUTH BOUND



LAYOUT PLAN - SPANS 6 & 7 NORTH BOUND



SIDE ELEVATION



TYPICAL TRANSVERSE SECTION

1" V-GROOVE

GENERAL SLAB NOTES

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

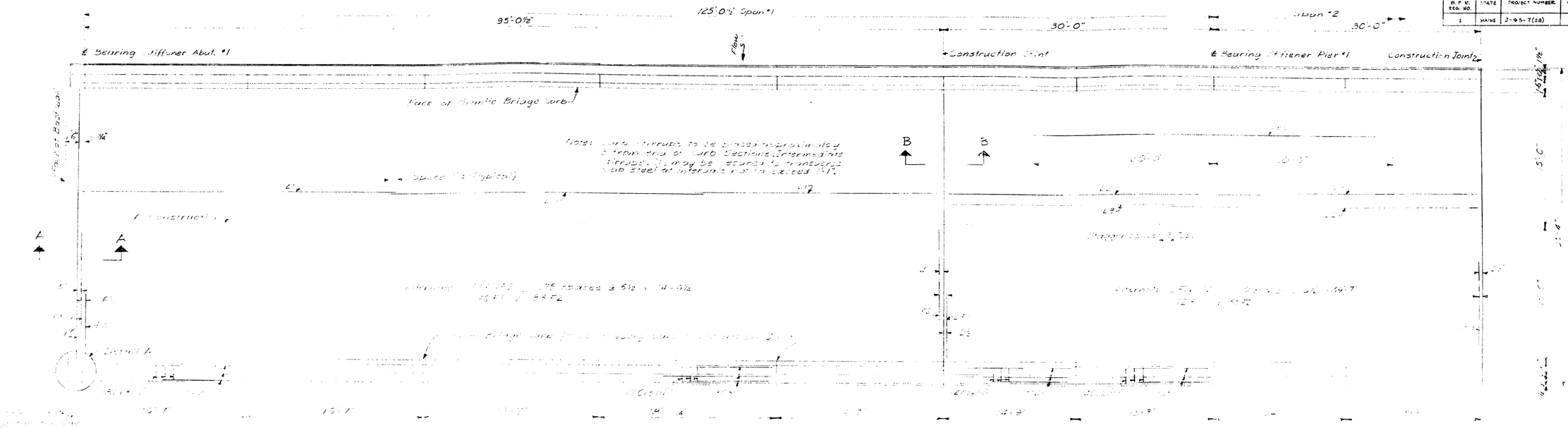
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

SUPERSTRUCTURE SLAB

SHEET 54 OF 92 AUGUSTA, MAINE NOV. 1962

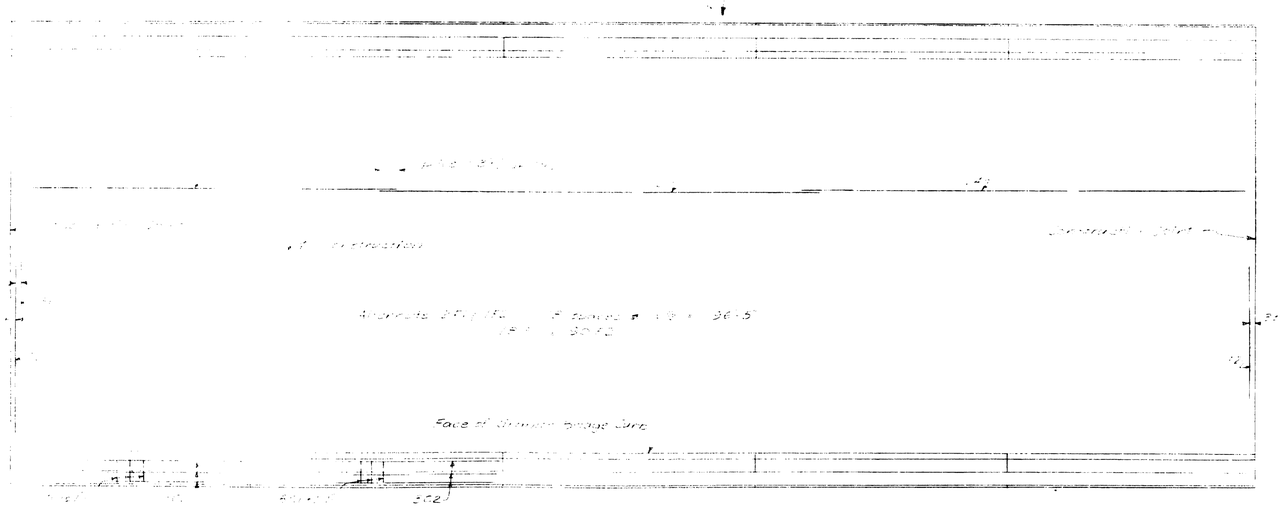
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-95-7(28)	55	92



PLAN SPAN #1 N.B.&S.B.

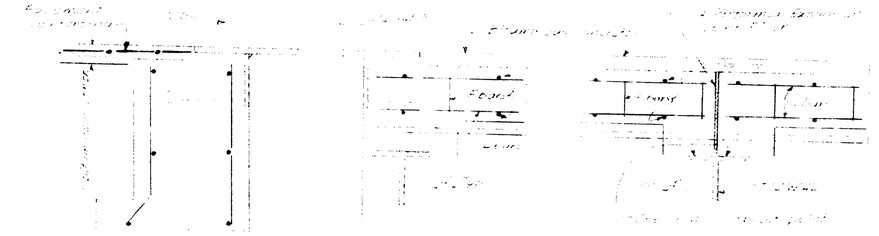
PLAN - TYPICAL 30' SECTION OVER PIERS N.B.&S.B.

TYPICAL AT PIERS #1, #2



PLAN - TYPICAL 97'-0" SECTION N.B.&S.B.

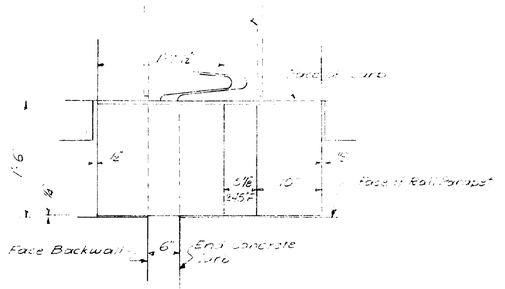
* For 30'-0½" Section make Curb Constr. Joint 18'-8¼"



SECTION A-A

SECTION B-B

TYPICAL CONSTRUCTION JOINT



DETAIL A

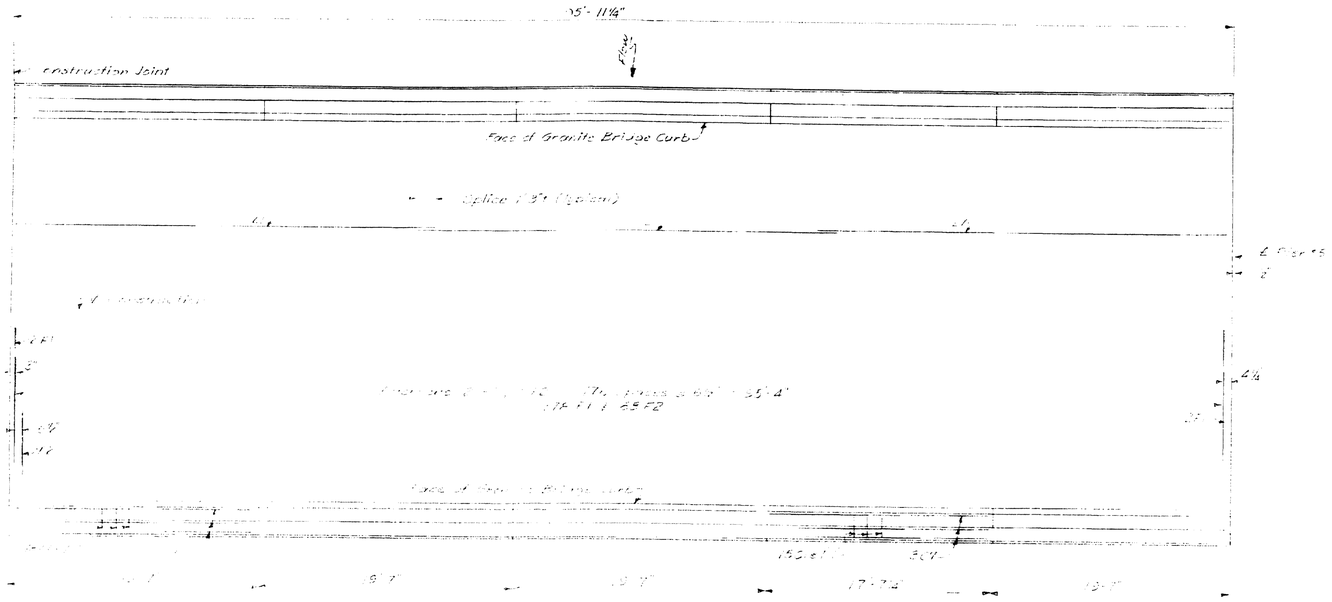
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

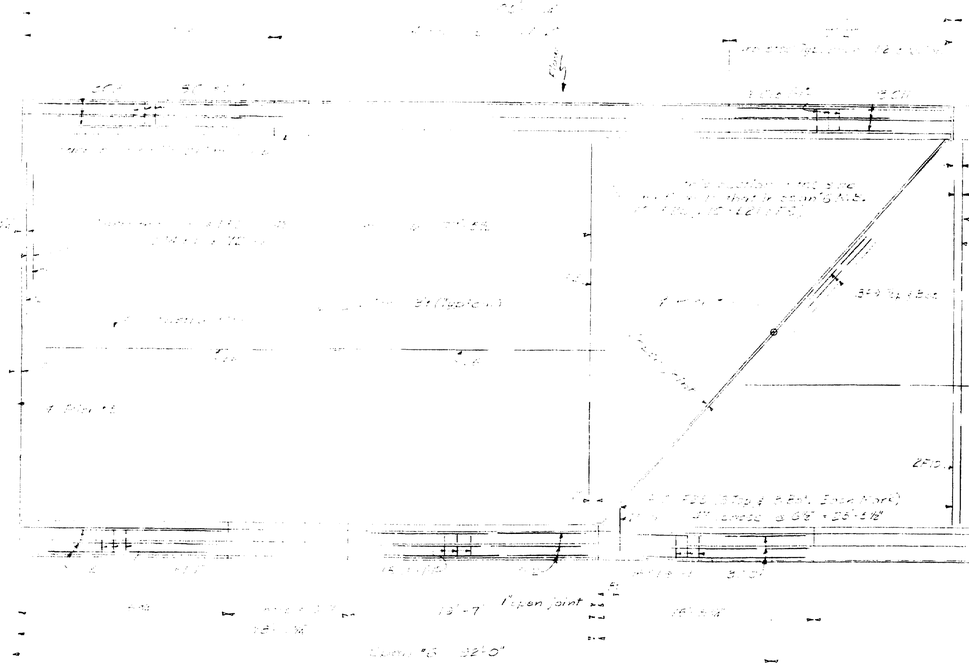
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
NORRIDGEWOCK AND SKOWHEGAN
SOMERSET AND KENNEBEC COUNTIES
SUPERSTRUCTURE SLAB
SHEET 55 OF 92 SHEETS AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

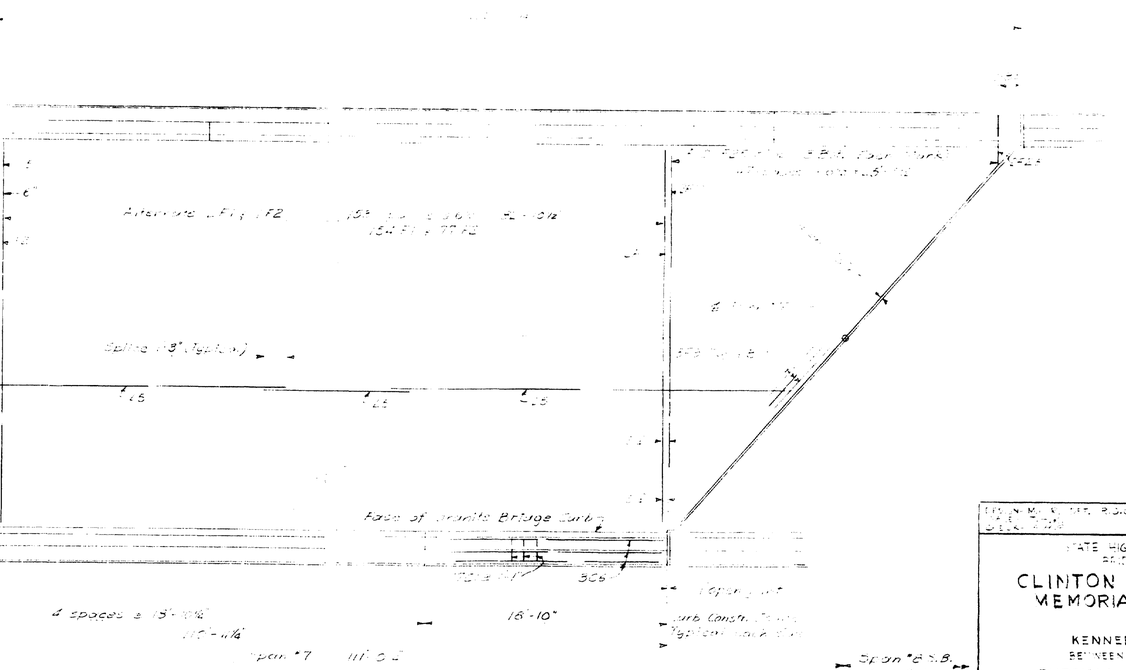
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(26)	56	92



PART PLAN SPAN #5 N.B & S.B.



PLAN - SPAN #6 S.B.



PLAN - SPAN #7 S.B.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

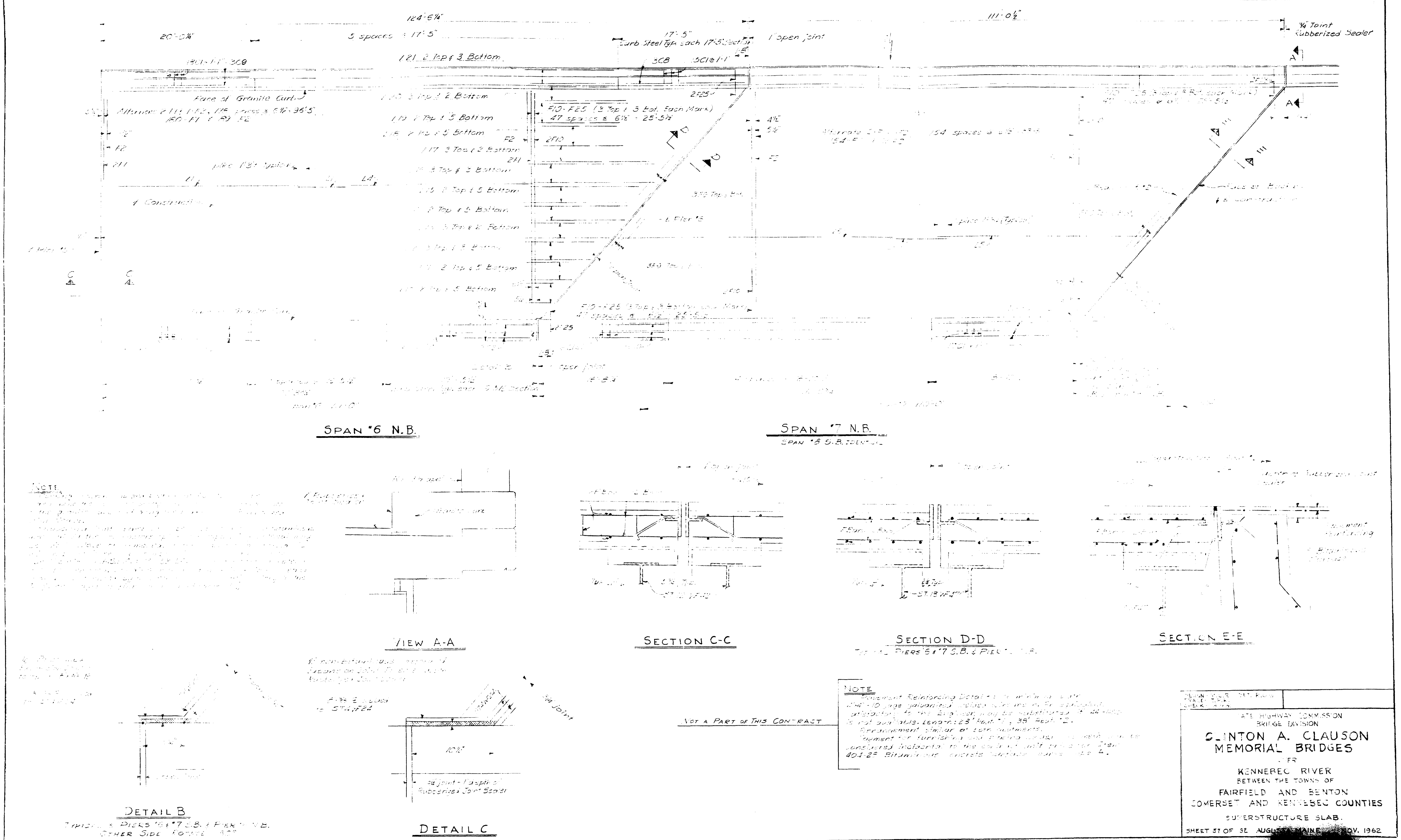
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

SUPERSTRUCTURE SLAB

SHEET 56 OF 92 AUGUSTA, MAINE Nov. 1962

B. P. R. REG. NO	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	57	92



STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

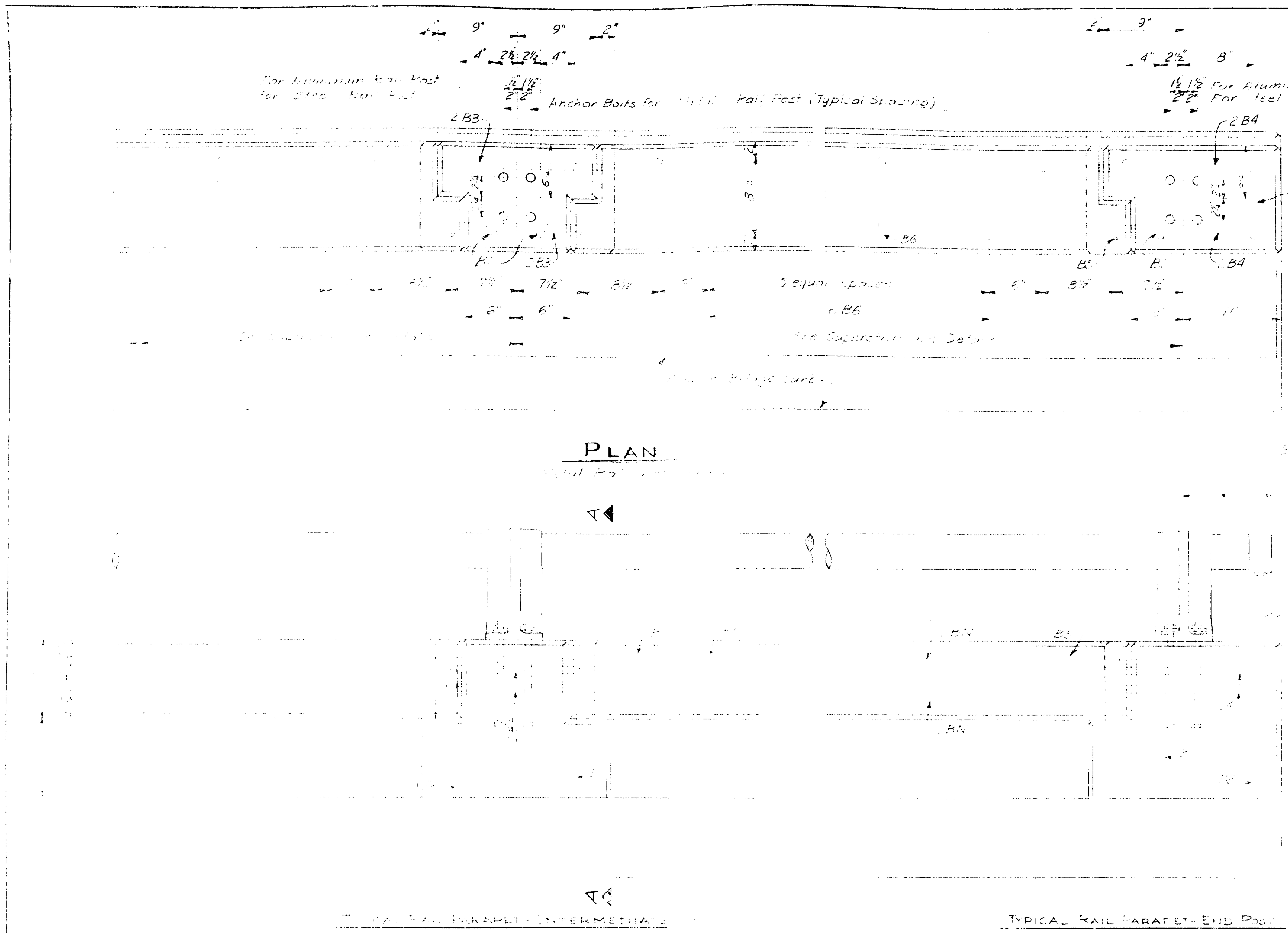
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

SUPERSTRUCTURE SLAB.

SHEET 57 OF 92 AUGUSTA, MAINE NOV. 1962

S.H.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	MAINE	I-95-7(28)	58	92



PLAN

TYPICAL RAIL PARAPET - INTERMEDIATE

TYPICAL RAIL PARAPET - END POST

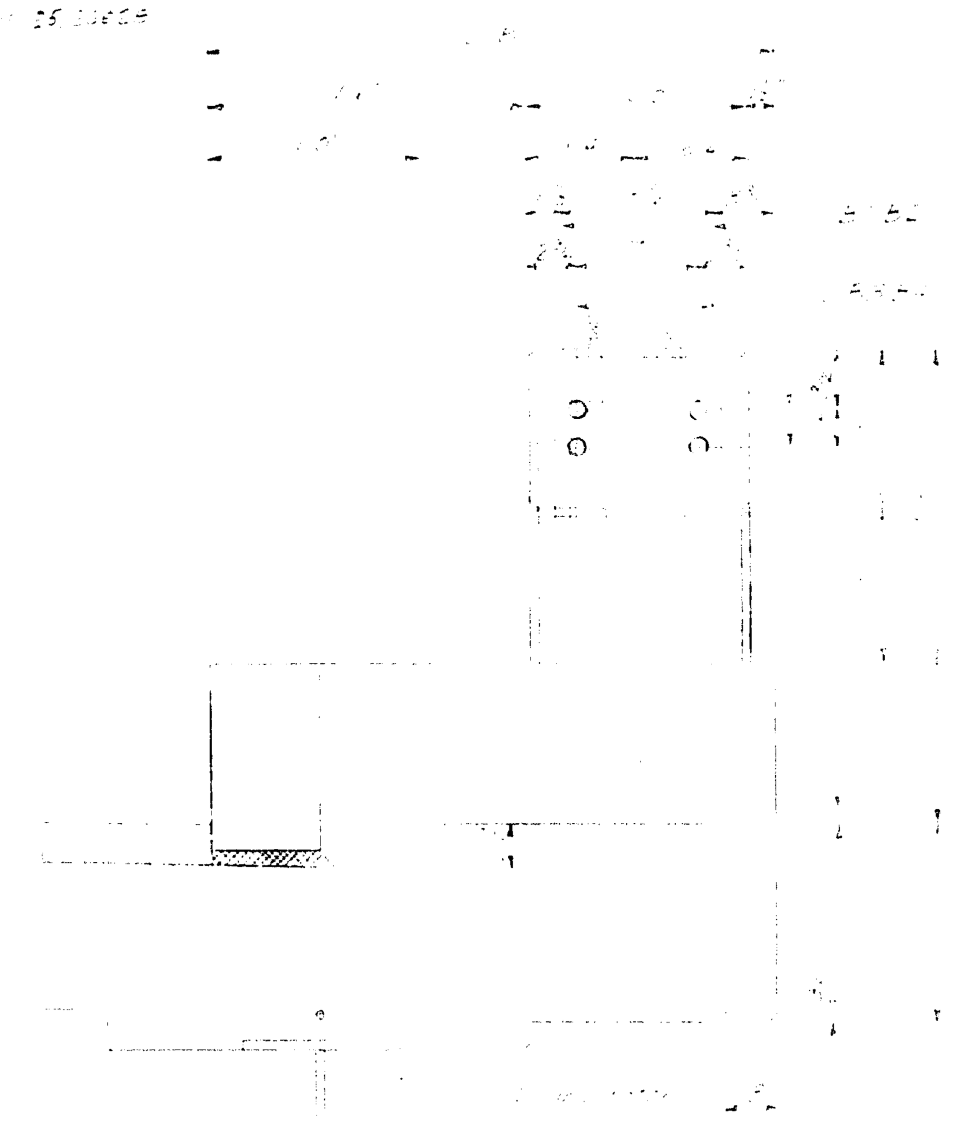
ELEVATION

RAIL SPACING	SPANS	NO. OF RAIL SPACES	BN BARS
8'-7"	*1, *2, *3, *4 N.B. & S.B.	104	B7
8'-11"	*2, *3, *4, *5 N.B. & S.B.	54	B8
[illegible]	*5 N.B. & S.B.	[illegible]	[illegible]
[illegible]	*1 N.B. (S.B.)	14	B9
[illegible]	*5 N.B. (S.B.)	[illegible]	[illegible]
[illegible] 4¼", 8'-4⅞"	*7 N.B. [illegible]	6	B11
[illegible] 8'-7¾"	*6 S.B. [illegible]	2	B10
[illegible] 8'-6"	*6 S.B. (S.B.)	[illegible]	B12
[illegible]	Abutments [illegible]	[illegible]	[illegible]
* 8'-11"	Retaining Walls & Abutment [illegible]	* 3	

* Metal rail only.

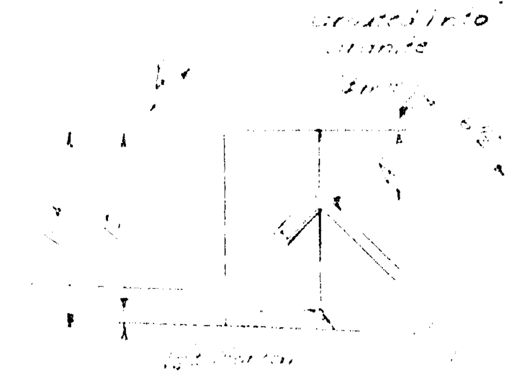
NOTE:

[illegible] rail parapet [illegible] shall be [illegible] a minimum of 72 hours [illegible] to placing concrete for remainder of rail parapet.
Contact surfaces of rail parapet [illegible] construction joints to be painted with asphalt paint prior to placing concrete for remainder of rail parapet.



SECTION A-A

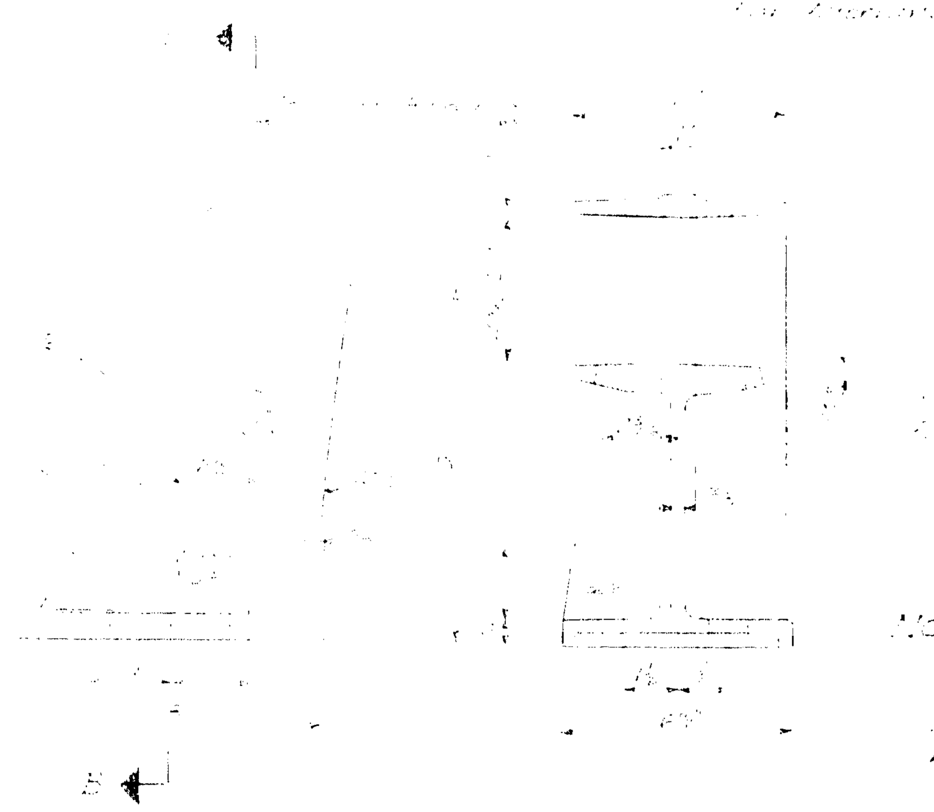
Metal Rail and rail parapet [illegible] reinforcing not shown.



GRANITE CURB DETAIL

[illegible] Granite Curb [illegible] Curb Constr. [illegible]

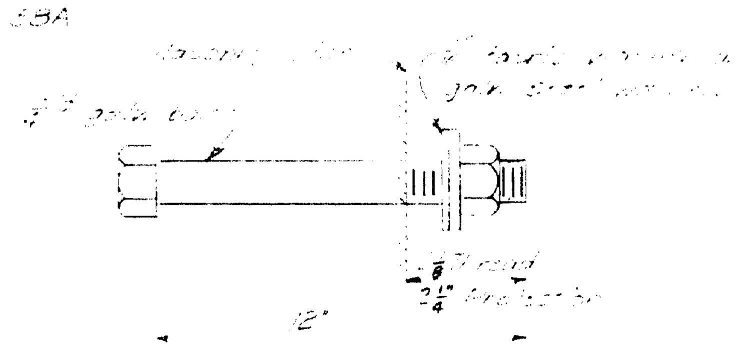
NOTE:
For Alternate Steel Rail Details, See Sheets 58A



POST

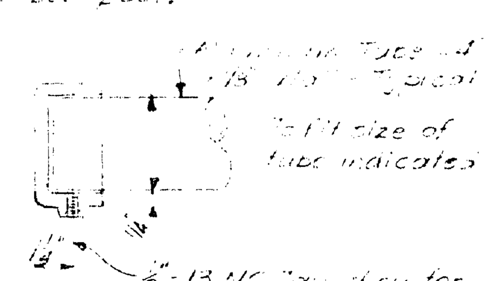
SECTION B-B

NOTE: Slight variations will be permitted in details, if approved by the Engineer, in order to conform with various manufacturers castings.



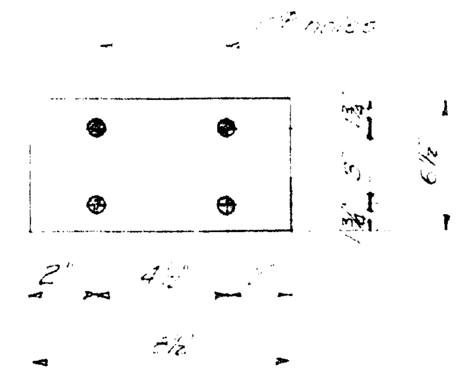
ANCHOR BOLT

Structural steel galvanized bolts to project 2¼" out of concrete.
4-Bolts per post.



CAP

ALUMINUM RAIL DETAILS



SHIM

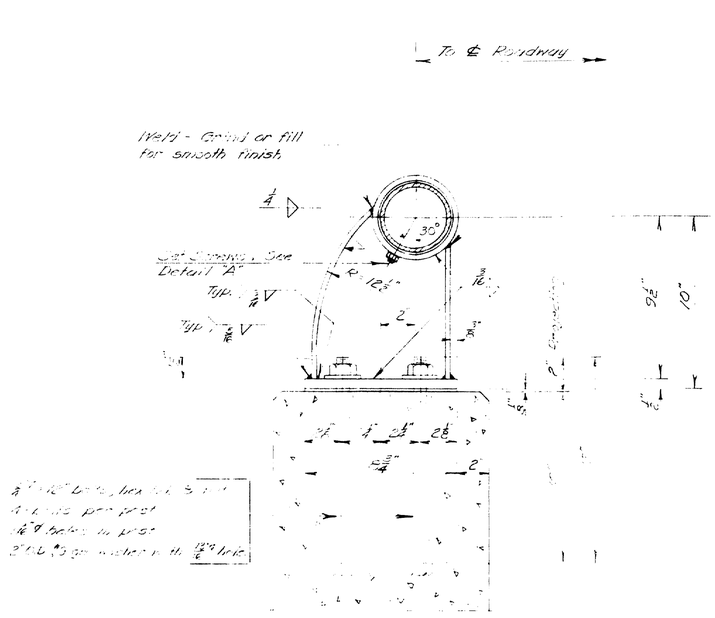
Aluminum alloy shims 6½" x 1/8" x 6½". Furnish in the amount of 50% of number of rail posts. Cut as necessary.

NOTE:
Aluminum tubes to be continuous for a minimum of [illegible] rail panels. [illegible]

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
RAIL & GRANITE CURB DETAILS
SHEET 58 OF 92 AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	58 A	*92

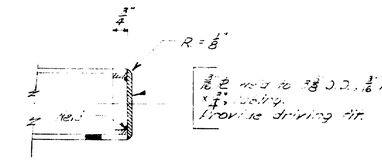


SECTION A-A

CAP

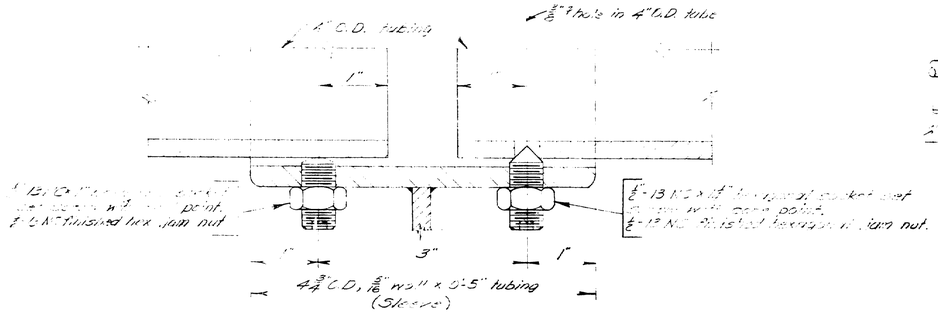
RAIL POST

4" O.D. tubing to be continuous for a minimum of two rail panels. For tubing two or more panels long the one point set screw is to be tight in the hole provided in 4" O.D. tubing. At all other posts one oval point set screw per post shall be set to bear. Where tubes are not continuous thru posts leave 1" gap at ℄ post.



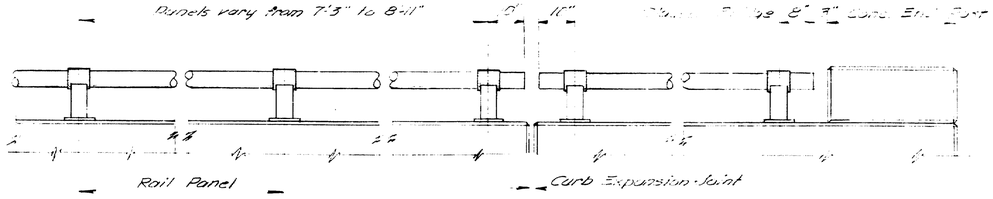
ALTERNATE CAP

PREFORMED PAD



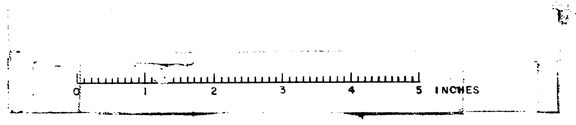
DETAIL "A"

Drill and tap Sleeve 5/8"-13 NC(2 places)
Drill 4" O.D. tubing (Rail) 3/8" ø hole, 1" from one end only.



SIDE ELEVATION - RAIL

NOTE: 4" O.D. Tubing, Posts, Bolts, Nuts & Washers to be galvanized.



DESIGN - WBH
DETAILED - SNL
CHECK - MK

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

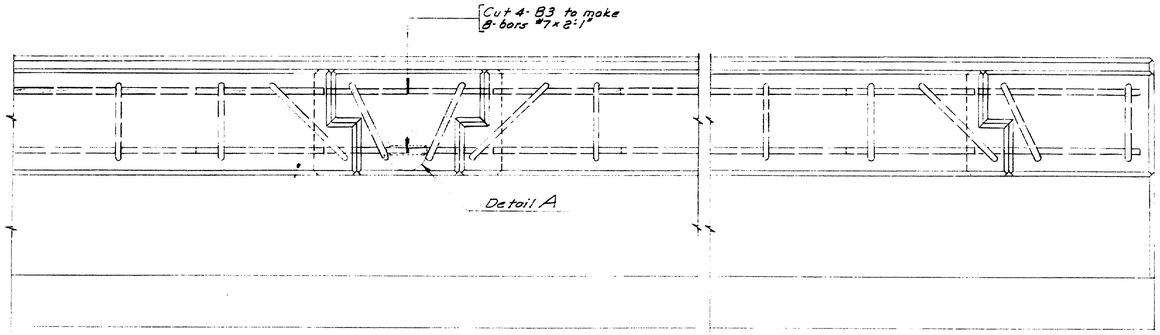
CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

STEEL RAIL

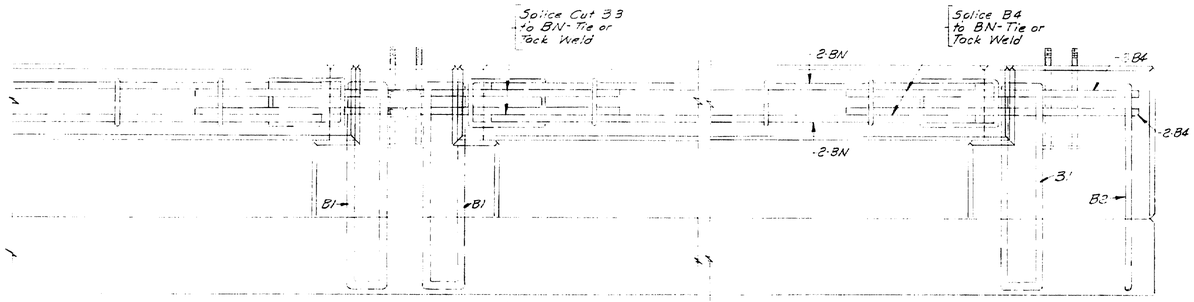
SHEET 58A OF 92 AUGUSTA, ME., Nov. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(18)	58	92



PLAN

Metal Rail not shown

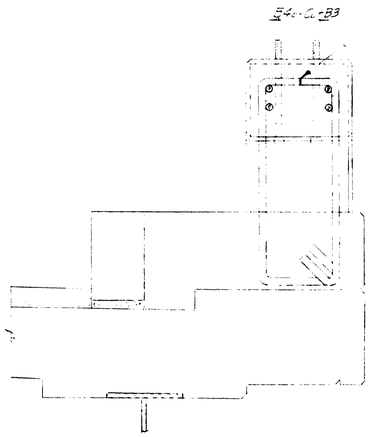


TYPICAL RAIL PARAPET - INTERMEDIATE POST

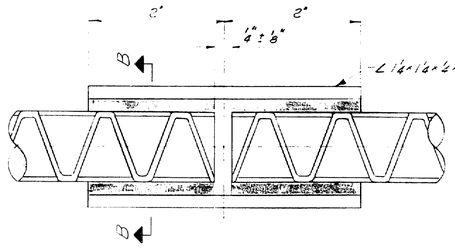
TYPICAL RAIL PARAPET - END POST

ELEVATION

Metal Rail not shown

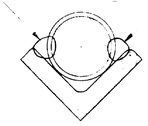


SECTION A-A



DETAIL A

Note: 3 splices required for Cut B3 at each intermediate post. Front bars only.



SECTION B-B

Weld (use low hydrogen electrodes only)

Note: This sheet shows details required to permit alternate use of rail parapet bars. Utilizing the same detailing steel herein for in place casting. For dimensions and details not shown see Sh. 58

DESIGN- MBR	BRIDGE NO.
TRACE-	SURVEY-
CHECK- LE	PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

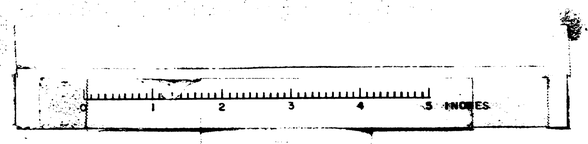
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

ALTERNATE RAIL PARAPET DETAILS

SHEET 58 OF 92 AUGUSTA, MAINE OCT. 1963

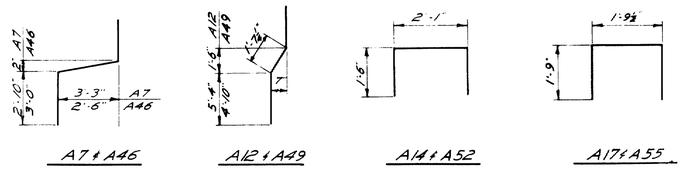
C. B. CO., NO. 44-302 #6616



REINFORCING STEEL

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	53	92

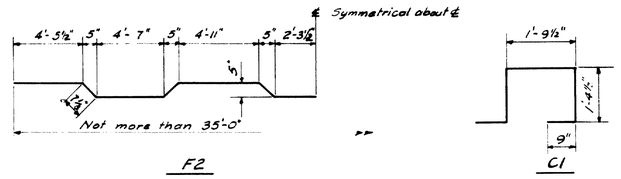
* ABUTMENTS



MARK	SIZE	NUMBER	LENGTH	LOCATION
ABUTMENT #1 N.B. & S.B.				
BENT BARS				
A7	#5	36	7'-10"	Bridge Seat
A12	#6	62	8'-6"	Backwall
A13	#6	40	2'-9"	Backwall
A14	#5	24	5'-1"	Bearing Areas
A17	#4	48	5'-3	Wings, Curb
A20	#5	48	6'-6"	Backwall & Wings
A21	#7	30	6'-6"	Backwall & Long Wing
A26	#6	16	9'-3"	End Posts
STRAIGHT BARS				
A1	#6	124	7'-0"	Footing
A2	#6	72	6'-6"	"
A3	#6	20	2'-9"	"
A4	#6	32	36'-4"	"
A5	#6	28	25'-0"	"
A6	#5	150	3'-6"	Footing
A8	#5	52	8'-4"	Backwall
A9	#4	10	33'-10"	Bridge Seat
A10	#4	28	34'-10"	Backwall
A11	#6	78	5'-0"	Bridge Seat
A15	#5	24	2'-2"	Bearing Areas
A16	#5	36	11'-9"	Long Wing
A18	#6	36	4'-6"	" "
A19	#5	36	10'-0"	" "
A22	#7	12	8'-0"	" "
A23	#7	18	17'-6"	" "
A24	#7	6	11'-3"	" "
A25	#4	16	17'-6"	Long Wing
A27	#4	24	3'-4"	End Posts
A28	#4	4	18'-6"	Long Wing, Curb
RETAINING WALL ABUTMENT #1				
RW1	#6	14	28'-0"	Footing
RW2	#6	58	6'-6"	"
RW3	#5	15	3'-0"	"
RW4	#7	29	5'-6"	Footing
RW5	#5	15	14'-0"	Wall
RW6	#6	29	12'-3	Wall
RW7	#5	20	28'-0"	Wall
APPROACH SLABS ABUTMENTS #1 & #2 N.B. & S.B.				
AS1	#6	480	14'-6"	Abutments #1 & #2
AS2	#4	40	29'-6"	Abutment #1
AS3	#4	40	39'-6"	Abutment #2

MARK	SIZE	NUMBER	LENGTH	LOCATION
ABUTMENT #2 N.B. & S.B.				
BENT BARS				
A46	#5	46	7'-3"	Bridge Seat
A49	#5	78	8'-0"	Backwall
A52	#5	24	5'-1"	Bearing Areas
A55	#4	80	5'-3"	Wings, Curb
A62	#6	16	9'-3"	End Posts
A65	#6	40	2'-9"	Backwall
STRAIGHT BARS				
A40	#6	28	22'-4"	Footing
A41	#6	56	26'-3"	"
A42	#6	296	6'-6"	"
A43	#6	28	24'-5"	"
A45	#5	214	3'-6"	"
A47	#5	60	7'-9"	Backwall & Wings
A48	#5	98	5'-0"	Bridge Seat & Wings
A50	#4	76	24'-0"	Br. Seat & Backwall
A51	#5	12	3'-0"	Inter. Bear. Areas
A53	#5	12	2'-0"	Exterior Bear. Areas
A54	#5	70	11'-1"	Wings
A56	#6	70	4'-6"	"
A57	#5	70	9'-6"	"
A58	#7	56	9'-0"	"
A59	#7	44	12'-0"	"
A60	#5	32	5'-6"	"
A61	#5	32	15'-6"	"
A63	#4	24	3'-4"	End Posts
A64	#4	8	18'6	Wings, Curb

* SUPERSTRUCTURE



MARK	SIZE	NUMBER	LENGTH	LOCATION
SPANS #1 THRU #5 N.B. & S.B.				
BENT BARS				
F2	#6	1332	36'-1"	Transverse bar
C1	#5	2668	6'-1"	Curb stirrup
STRAIGHT BARS				
F1	#6	2672	35'-0"	Transverse bar
F3	#5	264	40'-0"	Long. bar over Piers
L1	#5	2016	32'-8"	Longitudinal bar
L2	#5	672	35'-6"	" "
L3	#5	672	25'-6"	" "
L4	#5	504	33'-10"	" "
C2	#4	240	19'-3"	Long. bar @ Curb
C3	#4	12	17'-11"	" "
C4	#4	96	14'-5"	" "
C5	#4	96	14'-11"	" "
C6	#4	36	18'-4"	" "
C7	#4	12	17'-3"	" "

MARK	SIZE	NUMBER	LENGTH	LOCATION
SPANS #6, #7 & #8 S.B. - #6, #7 & #8 S.B.				
BENT BARS				
F2	#6	394	36'-1"	Transverse bar
C1	#5	974	6'-1"	Curb stirrup
STRAIGHT BARS				
F1	#6	786	35'-0"	tranverse bar
L1	#5	168	32'-8"	Longitudinal bar
L4	#5	84	33'-10"	" "
L5	#5	756	37'-9"	" "
L6	#5	168	39'-9"	" "
C2	#4	30	19'-3"	Long. bar Curb
C6	#4	90	18'-4"	" "
C8	#4	18	17'-1"	" "
C9	#4	3	19'-7"	" "
C10	#4	18	16'-4"	" "
C11	#4	15	16'-10"	" "
F9	#6	48	40'-0"	Transv. Corner bars
F10		48	31'-6"	
F11			29'-8"	
F12			27'-10"	
F13			25'-11"	
F14			24'-1"	
F15			22'-3"	
F16			20'-5"	
F17			18'-6"	
F18			16'-8"	
F19			14'-10"	
F20			13'-0"	
F21			11'-2"	
F22			9'-4"	
F23			7'-6"	
F24			5'-7"	
F25	#6	48	3'-9"	Transv. Corner bar.
L10	#5	14	3'-6"	Long. Corner bars
L11		14	6'-0"	
L12		12	9'-4"	
L13		10	11'-8"	
L14		14	14'-0"	
L15		14	16'-3"	
L16		12	18'-6"	
L17		10	20'-6"	
L18		14	23'-0"	
L19		14	25'-0"	
L20		10	27'-6"	
L21	#5	10	29'-0"	Long. Corner bars

* Rail Parapet reinforcing steel not included.
For Rail Parapet reinforcing steel see sheet #60

All reinforcing steel to be intermediate grade.
All dimensions to ℄ of bars.

DESIGN- M.C.R
TRACE- T.H.K.
CHECK- A.H.P.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

REINFORCING STEEL ABUTMENTS & SUPERSTRUCTURE

SHEET 53 OF 92 AUGUSTA, MAINE NOV. 1962

C. D. CO., NO 3788 18767

0 1 2 3 4 5 INCHES

PIERS - STRAIGHT BARS

Mark	Size	Length	North Bound Piers 1 No.	2 No.	3 No.	4 No.	5 No.	6 No.	South Bound Piers 1 No.	2 No.	3 No.	4 No.	5 No.	6 No.	7 No.	Total No.	Location
[illegible]	#8	11'-8"	12													12	[illegible]
[illegible]	#8	[illegible]	4	44												[illegible]	[illegible]
S13	[illegible]	[illegible]	[illegible]	[illegible]												[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

PIERS BENT BARS

Mark	Size	Length	North Bound Piers 1 No.	2 No.	3 No.	4 No.	5 No.	6 No.	South Bound Piers 1 No.	2 No.	3 No.	4 No.	5 No.	6 No.	7 No.	Total No.	Location
G9	#6	[illegible]-4"	4	14	[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6	6	12	12	[illegible]	[illegible]
G10		17'-1"	4	4		4	[illegible]	[illegible]	[illegible]	[illegible]		4		4	4	[illegible]	[illegible]
G11		16'-9"	4	4	2	4	[illegible]	[illegible]	[illegible]	[illegible]	2	4	2	4	4	[illegible]	
G12		[illegible]-4"	4	4	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	4	[illegible]	[illegible]	
[illegible]		[illegible]	4	4	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]		[illegible]	4	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	[illegible]	[illegible]	[illegible]	
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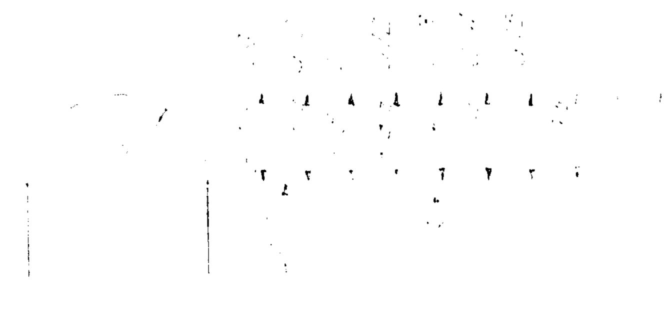
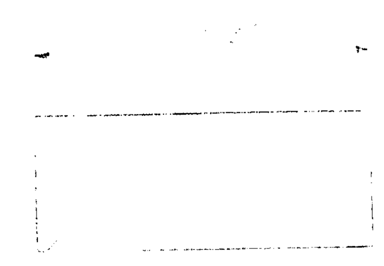


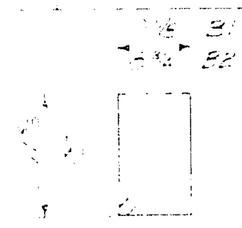
G9 THRU G16



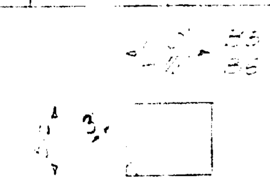
G24

RAIL PARAPET BARS

Mark	Size	Length	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Total No.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	#7	2'-2"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		2'-10"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B4		7'-3"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		7'-0"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		6'-9"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		6'-10"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
B8	#7	[illegible]-7"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



B1 & B2



B5 & B6

NOTE

F.A.P. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	[illegible](28)	[illegible]	92

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON
MEMORIAL BRIDGES

KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
[illegible] STEEL, PIERS & RAIL PARAPET
SHEET [illegible] OF 92 AUGUSTA, MAINE [illegible] NOV. 1962

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)		

CLINTON A. CLAUSON MEMORIAL BRIDGES

CLINTON A. CLAUSON
GOVERNOR OF MAINE
1959

FULL SCALE
2 REQUIRED

DESIGN- BOYD TRACE- " CHECK- MAR	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
CLINTON A. CLAUSON MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
MEMORIAL PLAQUE
SHEET OF AUGUSTA, MAINE

C. E. CO. NO 3798 33-167

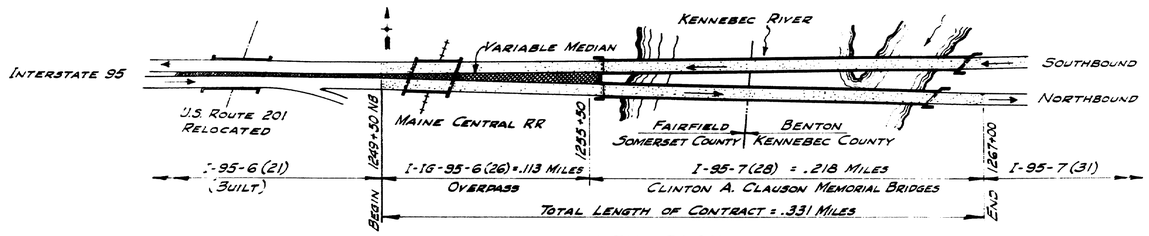
0 1 2 3 4 5 INCHES

STATE OF MAINE STATE HIGHWAY COMMISSION

INTERSTATE 95
OVER
MAINE CENTRAL RAILROAD
FAIRFIELD
SOMERSET COUNTY
F. A. PROJECT NO. I-IG-95-6(26)127
LENGTH .113 MILES
CONTRACT I

CLINTON A. CLAUSON MEMORIAL BRIDGES
BETWEEN
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
F. A. PROJECT NO. I-95-7(28)127
LENGTH .218 MILES

TOTAL LENGTH OF CONTRACT .331 MILES



KEY PLAN

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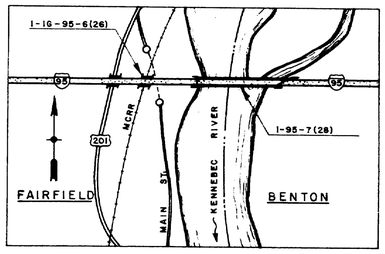
INTERSTATE TRAFFIC

A. D. T. 1962	6535
A. D. T. 1982	8880
D. H. V.	1066
T	11 %
D	60 %
V	60 MPH

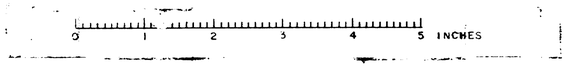


LOCATION MAP
APPROX. SCALE - 1" = 660'

APPROVED:
MAINE CENTRAL RAILROAD COMPANY
J. W. Wiggins — CHIEF ENGINEER — 11-19-62 DATE

APPROVED:
MAINE STATE HIGHWAY COMMISSION
David L. Wilkins — CHAIRMAN
Leroy P. Hydrick
N. Leon Hi...
Dayton M... — CHIEF ENGINEER — 10/31/62 DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
REGION 1
APPROVED:
DIVISION ENGINEER — DATE



B P R REG. NO	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	1	92

ESTIMATE OF QUANTITIES

ITEM DESCRIPTION	INTERSTATE 95 OVER MCRR (OVERPASS)		C.A. CLAUSON MEMORIAL BRIDGES (BRIDGE)		TOTAL QUANTITIES
	APPROACH	STRUCTURE	APPROACH	STRUCTURE	
CLEARING	2		0.5		2.5 ACRES
SELECTIVE CLEARING AND THINNING	1		0.1		1.1 ACRES
STRUCTURAL EARTH EXCAVATION, DRAINAGE	200		100	400	700 CU. YDS.
STRUCTURAL EARTH EXCAVATION, PIERS (OVERPASS)		80			80 CU. YDS.
STRUCTURAL EARTH EXCAVATION, PIERS (BRIDGE)				4000	4000 CU. YDS.
STRUCTURAL ROCK EXCAVATION, PIERS				50	50 CU. YDS.
COMMON BORROW	75,000				75,000 CU. YDS.
GRANULAR BORROW	1600	13,400	20,500	4200	39,700 CU. YDS.
GRAVEL BASE COURSE - IN PLACE MEASUREMENT	2400		1050		3450 CU. YDS.
15 INCH ASPHALT COATED CORRUGATED METAL PIPE	138		100		238 LIN. FT.
15 INCH X 6-FOOT ASPHALT COATED CORRUGATED METAL BENDS	4		2		6 EACH
15 INCH X 2-FOOT ASPHALT COATED CORRUGATED METAL CONNECTING BANDS	12		7		19 EACH
15 INCH REINFORCED CONCRETE PIPE - CLASS III	72		34		106 LIN. FT.
CATCH BASINS - TYPE I	2		2		4 EACH
PORTLAND CEMENT CONCRETE ABUTMENTS & RETAINING WALLS (OVERPASS)		245			245 CU. YDS.
PORTLAND CEMENT CONCRETE ABUTMENTS & RETAINING WALLS (BRIDGE)				590	590 CU. YDS.
PORTLAND CEMENT CONCRETE PIERS (OVERPASS)		300			300 CU. YDS.
PORTLAND CEMENT CONCRETE PIERS (BRIDGE)				5300	5300 CU. YDS.
PORTLAND CEMENT CONCRETE PIERS - PLACED UNDER WATER				3450	3450 CU. YDS.
PORTLAND CEMENT CONCRETE ROADWAY & SIDEWALK SLABS ON STEEL BRIDGES (OVERPASS)		360			360 CU. YDS.
PORTLAND CEMENT CONCRETE ROADWAY & SIDEWALK SLABS ON STEEL BRIDGES (BRIDGE)				2370	2370 CU. YDS.
PORTLAND CEMENT		1440		17,060	18,500 BBLS.
PORTLAND CEMENT CONCRETE APPROACH SLABS		55		45	100 CU. YDS.
STRUCTURAL STEEL, FABRICATED & DELIVERED (OVERPASS)		LUMP SUM			LUMP SUM
STRUCTURAL STEEL, FABRICATED & DELIVERED (BRIDGE)				LUMP SUM	LUMP SUM
STRUCTURAL STEEL, ERECTION (OVERPASS)		LUMP SUM			LUMP SUM
STRUCTURAL STEEL, ERECTION (BRIDGE)				LUMP SUM	LUMP SUM
STRUCTURAL STEEL, FIELD PAINTING (OVERPASS)		LUMP SUM			LUMP SUM
STEEL RAIL, ALTERNATE "B"		240		4,085	4325 LIN. FT.
REINFORCING STEEL, DELIVERED		119,700		778,600	898,300 LBS.
REINFORCING STEEL, PLACING		119,700		778,600	898,300 LBS.
SHEAR CONNECTORS				LUMP SUM	LUMP SUM
STEEL H-BEAM PILES 42 LBS. PER FOOT		4295			4295 LIN. FT.
STEEL H-BEAM PILES 53 LBS. PER FOOT				3300	3300 LIN. FT.
STEEL H-BEAM PILES 89 LBS. PER FOOT				6000	6000 LIN. FT.
COFFERDAMS PIER 1 NORTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 2 NORTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 3 NORTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 4 NORTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 5 NORTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 6 NORTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 1 SOUTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 2 SOUTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 3 SOUTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 4 SOUTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 5 SOUTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 6 SOUTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
COFFERDAMS PIER 7 SOUTHBOUND (BRIDGE)				LUMP SUM	LUMP SUM
ALUMINUM RAIL, ALTERNATE "A"		240		4085	4325 LIN. FT.
EPOXY RESIN SURFACE SEALANT		110		1425	1535 SQ. YDS.
GRANITE BRIDGE CURB		263		4085	4348 LIN. FT.
SLOPED GRANITE BRIDGE CURB		258			258 LIN. FT.
STONE FILL				2100	2100 CU. YDS.
HAND LAID RIPRAP	185		30	650	865 CU. YDS.
CRANE LAID RIPRAP FACE				1050	1050 SQ. YDS.
STONE BLANKET				320	320 CU. YDS.
LOAM BORROW	640		310		950 CU. YDS
SEEDING METHOD NO. 2	69		31		100 UNITS
HAY MULCH	3		1.5		4.5 TONS
ASPHALT MULCH BINDER	330		150		480 GALS.
BITUMINOUS TREATED STONE SLOPE PROTECTION		1165			1165 SQ. YDS.
RIGHT-OF-WAY MONUMENTS	4				4 EACH
STRUCTURAL STEEL, FIELD PAINTING (BRIDGE)				LUMP SUM	LUMP SUM

NOTE: Estimated quantity of Structural Steel in overpass including pipe drains and Self Lubricating Bronze Plates = 202,300 lbs.

Estimated quantity of Structural Steel in bridge including pipe drains = 2,125,000 lbs.

DESIGN- G.W.C.
TRACE-
CHECK- M.W.T.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

ESTIMATE OF QUANTITIES

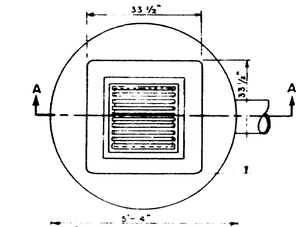
SHEET 1 OF 92 AUGUSTA, MAINE Nov. 1962

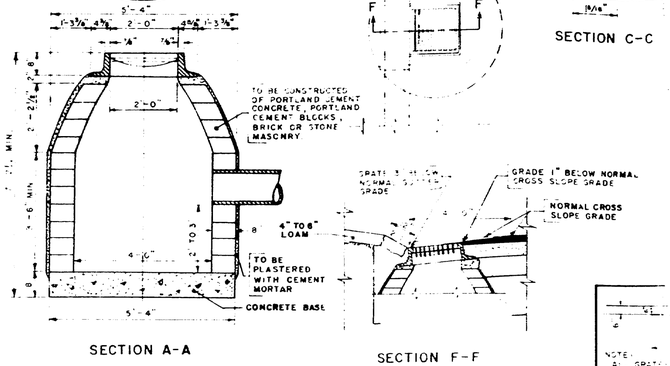
C. B. CO. NO 3798 22-147

0 1 2 3 4 5 INCHES

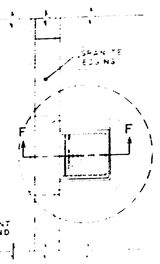
B P R REGION NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO	TOTAL SHEETS
1	MAINE	I-95-7(28)	2	92

CATCH BASIN
TYPE "H"



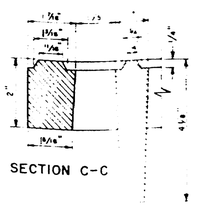


SECTION A-A

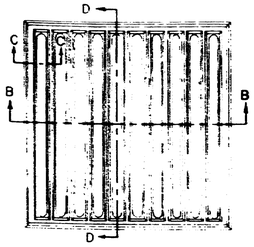


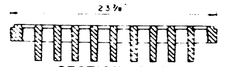
SECTION F-F

DETAIL OF CATCH BASIN IN GRANITE EDGING AREA



SECTION C-C

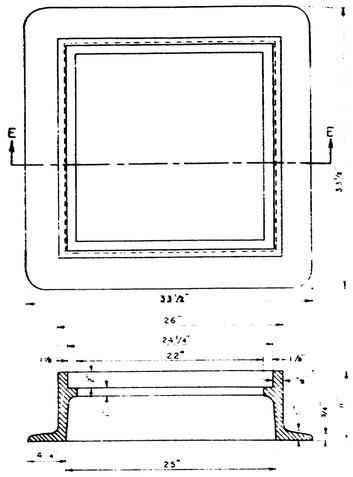




SECTION B-B

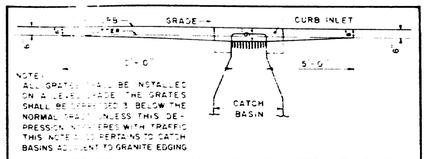
SECTION D-D

GRATE
(Weight ··· 219 lbs.)



SECTION E-E

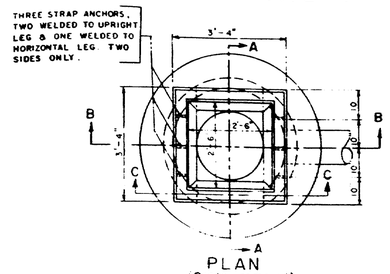
FRAME
(Weight ··· 295 lbs.)



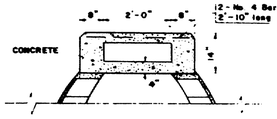
GUTTER GRADE TRANSITION AT CATCH BASINS

Note: When this type of catch basin is used with sloped or straight curb, the curb on gutter line shall be cut to fit flange.

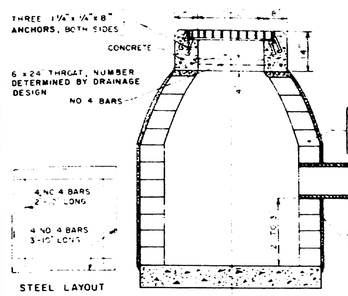
CATCH BASIN
TYPE "F"

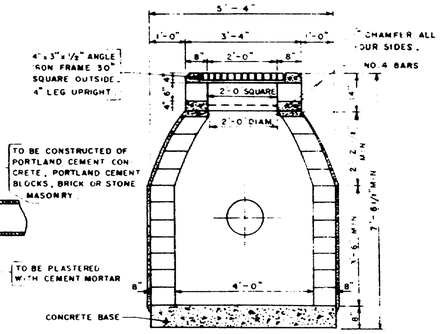


PLAN
(Grate removed)



SECTION C-C





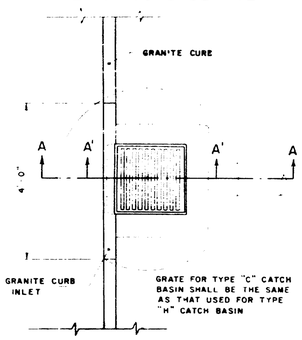
SECTION B-B

SECTION A-A

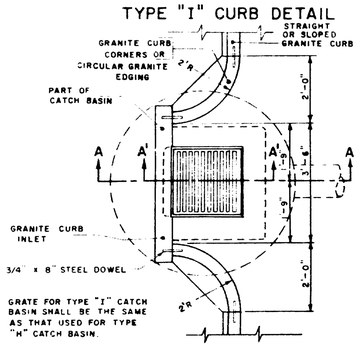
NOTE: TYPE "F" GRATE TO BE SAME AS TYPE "G"

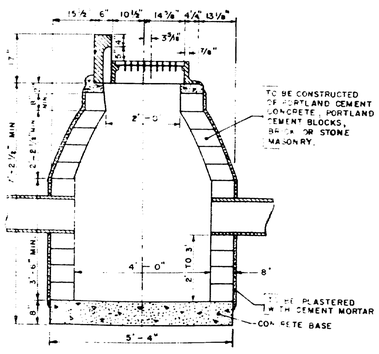
TYPE "C" CURB DETAIL

CATCH BASIN TYPE "C" AND "I"



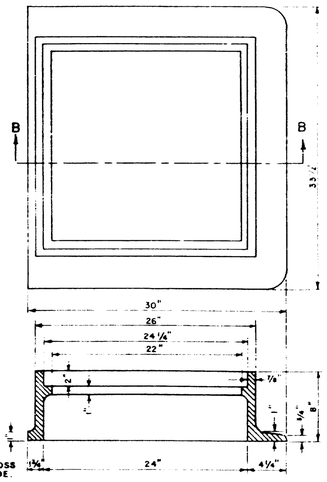
TYPE "I" CURB DETAIL





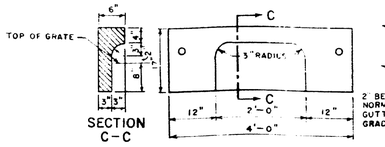
SECTION A-A

NOTE: INSTALL INLET AND OUTLET PIPES AT THE SAME ELEVATION



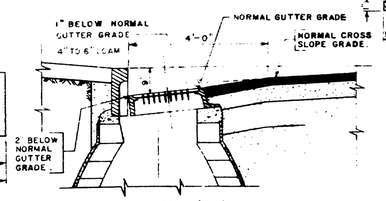
SECTION B-B

FRAME
(Weight ··· 264 lbs.)



SECTION C-C

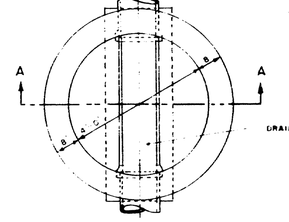
GRANITE CURB INLET



SECTION A'-A'

DETAIL OF CATCH BASIN IN SLOPED CURB AREA

CATCH BASIN
TYPE "G"



PLAN
(Grate and frame removed)

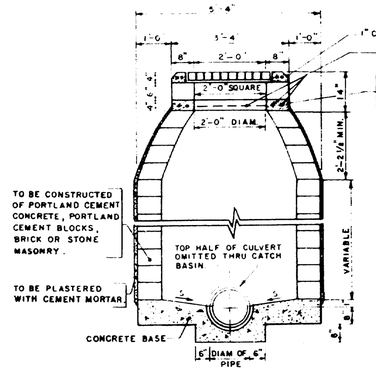
GRATING SHALL BE IRVING TYPE XD WITH 3 1/2" x 1/4" BEARING BARS @ 1 3/4" x 1/4" CROSS BARS OR APPROVED EQUAL RATED FOR H-20 WHEEL LOADS

GRATE

FRAME & GRATE SHALL BE GALVANIZED AFTER FABRICATION.

GRATE FOR TYPE "G" CATCH BASIN SHALL BE THE SAME AS THAT USED FOR TYPE "F" CATCH BASIN.

GRATE WITH CAST IRON FRAME MAY BE USED IN LIEU OF CONCRETE AS SHOWN



SECTION A-A

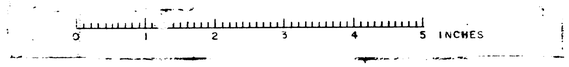
GENERAL NOTE:
1 ANY CATCH BASIN IN EXCESS OF 8' IN DEPTH SHALL HAVE STEPS SIMILAR TO THOSE DETAILED FOR MANHOLES
2 ALL PIPES INSTALLED THROUGH CATCH BASINS WALLS, EXCEPT TYPE "G", SHALL BE FLUSH WITH INSIDE WALL AND THIS WORK WILL BE INCIDENTAL TO CATCH BASINS.

MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

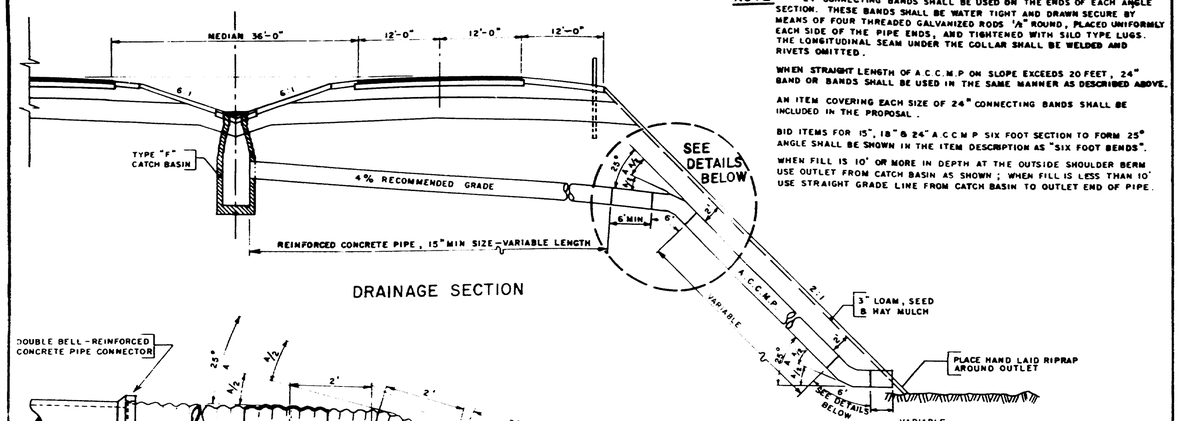
STANDARD DETAILS
CATCH BASINS

SHEET 2 OF 92

1-62



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



DRAINAGE SECTION

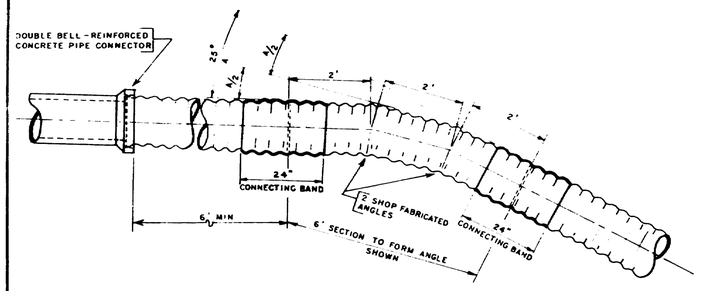
NOTE: 24" CONNECTING BANDS SHALL BE USED ON THE ENDS OF EACH ANGLE SECTION. THESE BANDS SHALL BE WATER TIGHT AND DRAWN SECURE BY MEANS OF FOUR THREADED GALVANIZED RODS 1/2" ROUND, PLACED UNIFORMLY EACH SIDE OF THE PIPE ENDS, AND TIGHTENED WITH SILO TYPE LUGS. THE LONGITUDINAL SEAM UNDER THE COLLAR SHALL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

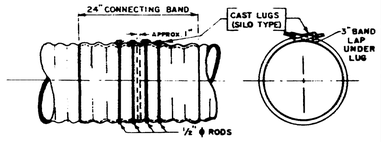
AN ITEM COVERING EACH SIZE OF 24" CONNECTING BANDS SHALL BE INCLUDED IN THE PROPOSAL.

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.

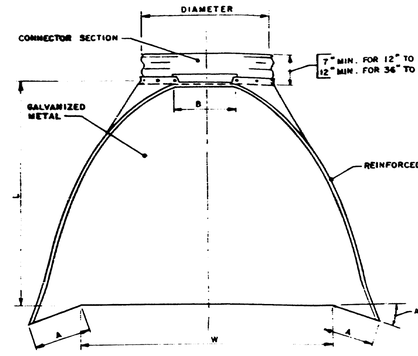


DETAIL OF SIX-FOOT BENDS



DETAIL OF 24" CONNECTING BANDS

METAL ENDWALLS



PLAN

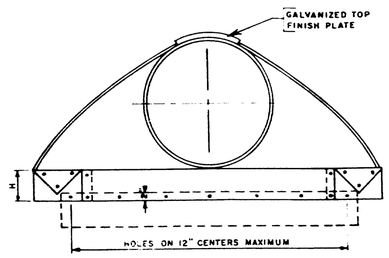
PIPE DIAM.	GAUGE	DIMENSIONS A ±1" TOL.	B MAX.	H ±1" TOL.	L ±1½" TOL.	W ±2" TOL.
12"	18	4¾"	6"	6"	21"	24"
15"	16	6"	8"	6"	26"	30"
18"	16	7"	9"	6"	31"	36"
21"	16	6¼"	11"	6"	36"	42"
24"	14	9½"	12"	6"	42"	48"
30"	14	12"	15"	7½"	52½"	60"
36"	12	14"	18"	9"	63"	72"
42"	12	16"	21"	10½"	73½"	84"

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.

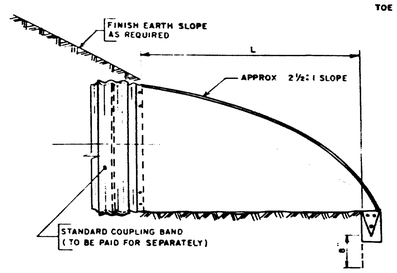
SKIRT SECTION FOR 12" TO 24" DIAMETER PIPE, INCLUSIVE, TO BE MADE IN ONE PIECE. SKIRT SECTION FOR 30" TO 48" DIAMETER PIPE MAY BE MADE FROM TWO SHEETS JOINED BY RIVETING OR BOLTING ON CENTERLINE

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.

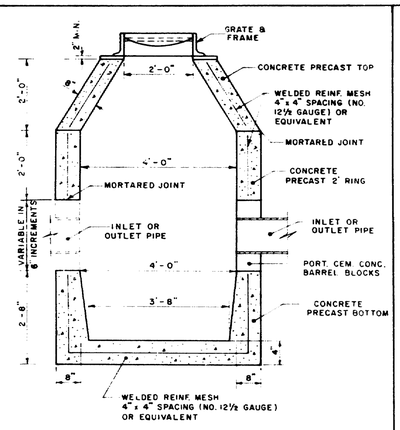


ELEVATION

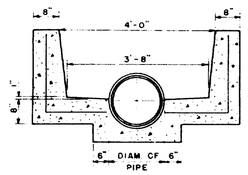


SIDE ELEVATION

B P R REGION NO.	STATE	FEDERAL AID PROJECT NO	SHEET NO	TOTAL SHEETS
1	MAINE	I-95-7(28)	3	92

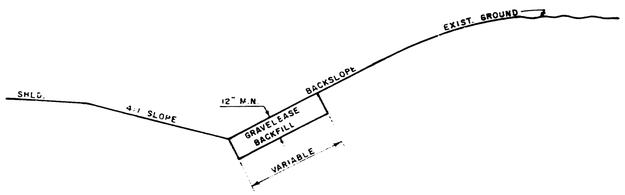


PRECAST PORTLAND CEMENT CONCRETE
CATCH BASINS
TYPES C, F, H & I - MANHOLE TYPE B

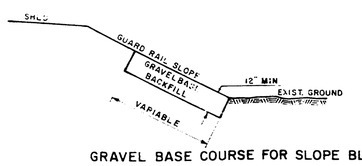


PRECAST PORTLAND CEMENT CONCRETE
CATCH BASIN TYPE G
MANHOLE TYPE A

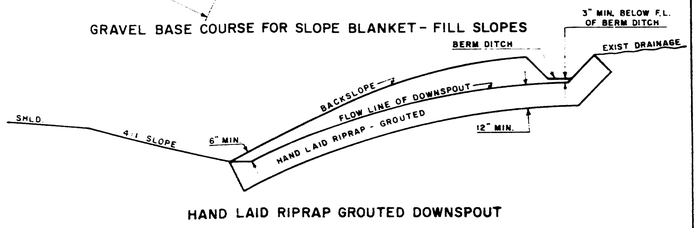
NOTE:
THE THREE SECTIONS DETAILED BELOW SHALL BE USED WHEN DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS.



GRAVEL BASE COURSE FOR SLOPE BLANKET - BACKSLOPES

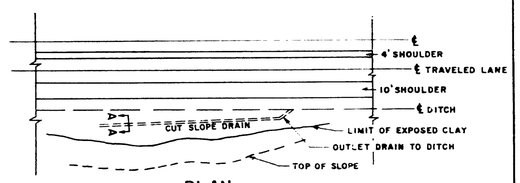


GRAVEL BASE COURSE FOR SLOPE BLANKET - FILL SLOPES

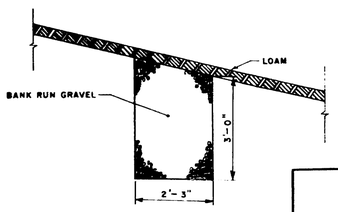


HAND LAID RIPRAP GROUTED DOWNSPOUT

CUT SLOPE DRAIN

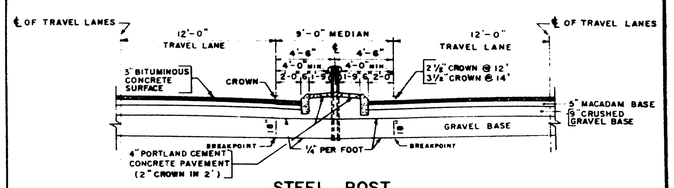


PLAN

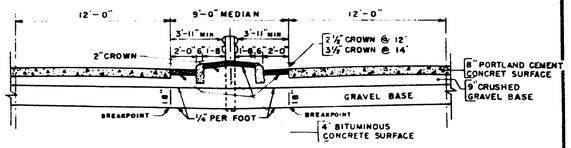


SECTION A-A

9-FOOT MEDIAN

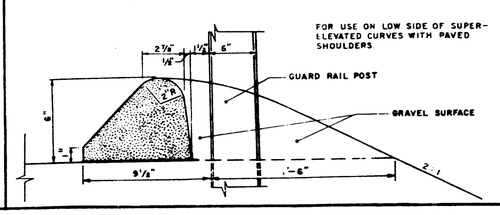


STEEL POST



WOOD POST

BITUMINOUS CONCRETE CURB



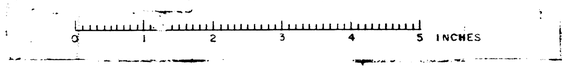
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

STANDARD DETAILS

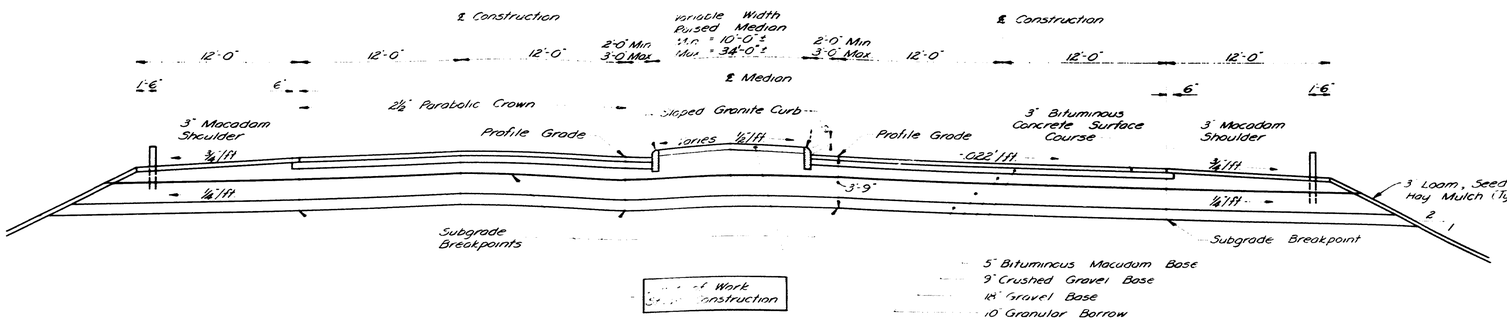
BENDS & BANDS, METAL ENDWALLS, GUARD RAIL ON RAMPS, CUT SLOPE DRAIN, 9-FOOT MEDIAN & BITUMINOUS CONCRETE CURB

SHEET 3 OF 92

4-62



B. P. R. REG. NO	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	4	92

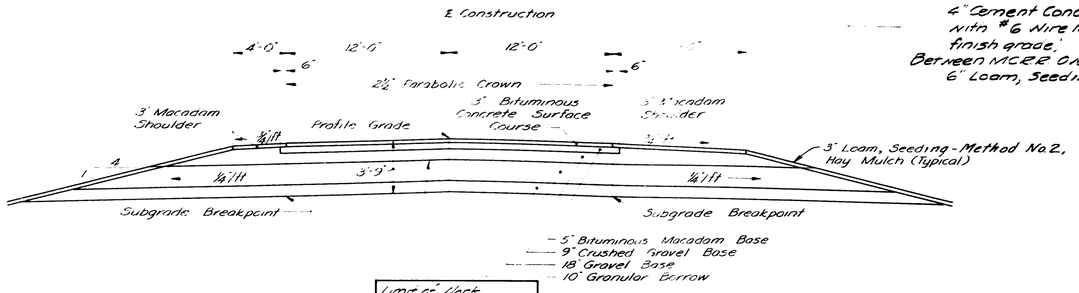


TYPICAL SECTION - NORMAL SOUTHBOUND

TYPICAL SECTION - SUPERELEVATED NORTHBOUND

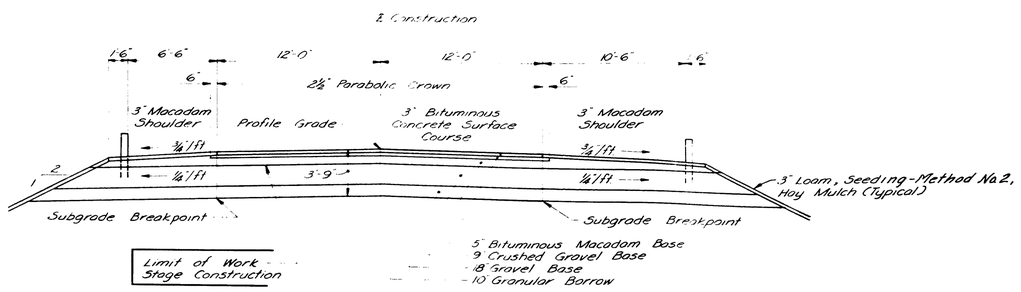
NOTE

Top of raised median to be built as follows:
Between Route 201 Overpass and MCRR Overpass - 4" Cement Concrete Pavement (Reinforced with #6 Wire Mesh 6×6, embedded 1½" below finish grade.
Between MCRR Overpass & C.A. Clauson Bridge - 6" Loam, Seeding - Method No.1, Hay Mulch



NORMAL

Northbound (10' Shoulder Rt. - 4' Shoulder Lt.)
Southbound (4' Shoulder Rt. - 10' Shoulder Lt.)

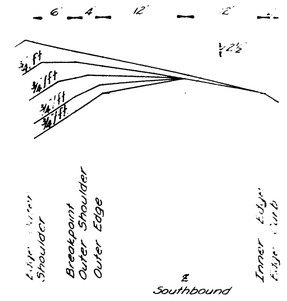


NORMAL GUARD RAIL

Northbound (12' Shoulder Rt. - 8' Shoulder Lt.)
Southbound (8' Shoulder Rt. - 12' Shoulder Lt.)

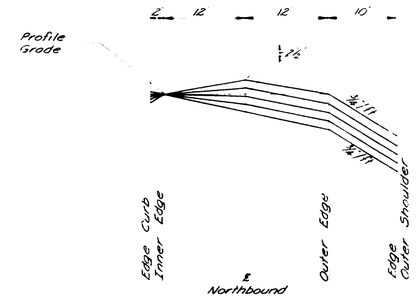
NOTE

Stage Construction under this Contract includes all approach work up to and including the 18 inch Gravel Base Course.



BANKING DIAGRAM

Vert. and Horiz. Transition, D=1°
Southbound



Scale:
Vert. = 1"=1'
Horiz. = 1'=10'

BANKING DIAGRAM

Vert. Transition, D=1°
Northbound

SOUTHBOUND										
		Edge Outer Shoulder		Breakpoint Outer Shoul'r		Outer Edge		Profile from ℄		
Station	Grade	Offset from ℄	Grade	Offset from ℄	Grade	Pavement Width	Grade	℄ Grade	Inner Edge	Edge Curb
1247+50		——	+0.87	27.0	+0.80	36.0	+0.53	+0.26	0.00	-0.07
+50		——	+0.83	25.6	+0.74	33.6	+0.53	+0.26	0.00	-0.13
1248+0		24.8	+0.77	23.2	+0.68	31.2	+0.53	+0.26	0.00	-0.13
(PT)+5.7		23.8	+0.46	20.8	+0.46	28.8	+0.39	+0.21	0.00	-0.13
1249+0		22.9	+0.19	18.4	+0.26	26.4	+0.26	+0.21	0.00	-0.13
+50		22.0	-0.03	16.0	+0.13	24.0	+0.13	+0.21	0.00	-0.13
1250+0		22.0			0.00	24.0	0.00	+0.21	0.00	-0.13

NORTHBOUND					
Station	Edge Curb	Inner Edge	℄ Grade	Outer Edge	Edge Outer Shoul'r
1252+50	+0.14	0.00	-1.26	-0.52	-0.74
1253+0	0.00	0.00	-0.26	-0.52	-0.13
+50	-0.04	0.00	-1.20	-0.46	-0.69
1254+0	-0.05	0.00	-1.07	-0.33	-0.56
+50	-0.05	0.00	+0.07	-0.19	-0.40

SUPERELEVATION CHART

All distances are in feet and are added (+) or subtracted (-) from profile grade.

DESIGN- B.P.B.
TRACE- E.E.L.
CHECK- A.H.
BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

TYPICAL SECTIONS

SHEET 4 OF 92 AUGUSTA, MAINE Nov. 1962

C. B. CO. NO. 3788 28787

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	5	92

New
℄ Construction S.B.
PI · 1227+48.50
Δ · 57°21'-09"
D · 1°00
R · 5729.58'
T · 3135.76'
L · 5735.26'

℄ Construction S.B.
PI · 1224+22.16
Δ · 59°59'-30"
D · 1°-00'-00"
R · 5729.58' Arc
T · 3307.42'
L · 5999.17'
E · 886.09'

Not used

New P.T. Tangent to Existing Curve at Sta. 1248+50

1256+50

1266+50

N 88°-26'-26"E

Constr'℄ Southbound

S 4°-09'-56"E

137.753

S 38°-13'-46"W

Reference ℄ Located midway between Construction Centerlines; Ahead at P.T. 30, 1251+54.84;

MATCH LINE

S 88°-55'-14"E

Constr'℄ Northbound

1255+79.14

1255+85.52

1264+93.46

℄ Construction N. Bound
P.I. · 1224+30.33
Δ · 60°59'-03"
D · 1°-00'-00"
R · 5729.58' Arc
T · 3373.91'
L · 6098.42'
E · 919.58'

P.T. Sta 1251+13.91

P.T. Sta 1251+54.84

LAYOUT REFERENCE ℄
No Scale

← ROUTE 201 RELOCATION

STA. 1246+05.47 ℄ CONSTRUCTION
INTERSTATE "95 SOUTHBOUND

50'-9" 27'-9" 27'-9" 44'-3"

℄ PIER

℄ PIER

3.M.Elev. 13'-56 Top of Parapet

PROFILE GRADE

P.T. STA. 1248+50

1243+0 1244+0 1245+0 1246+0 1247+0 1248+0 1249+0 1250+0 1251+0 1252+0

N 88-26-26E

S 88-55-14E

℄ Construction Southbound

℄ Construction Northbound

MEDIAN

VAR.

27' RADIAL

24'

3'

2'-6"

3" BIT. MACADAM SHOULDER

RAMP 'D' (BUILT)

Sta. 1245+20.00 ℄ CONSTRUCTION
INTERSTATE "95 NORTHBOUND

Sta 1249+50 BEGIN CONTRACT
Begin Project
I-16-95-6(26)

PT STA. 1251+54.84

INTERSTATE OVER ROUTE 201
(Built)

UTILITIES

Central Maine Power Co., New England Tel. & Tel. Co., Town of Fairfield (Fire Alarm), Kennebec Water District, and Maine Central Railroad Co.

NOTE: Any adjustment of utilities to be done by the respective Utility, unless otherwise shown.

0 1 2 3 4 5 INCHES

K-E 100 IMPERIAL

DESIGN–
TRACE–
CHECK– CDM

BRIDGE NO.
SURVEY–
PLOT– BLAKE HNF

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

SURVEY

SHEET 5 OF 92 AUGUSTA, MAINE DEC. 1961

B P R REG NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	6	92

PLAN

SCALE: 1"=30'

NOTES

River, Low water present elev. 83.0
High Water, 1952 – 102.0±
Extreme High Water, 1936-106.0±
Foundation-Ledge shows in many places.

NOTE - Track & Storage Tanks to be removed by others. To be removed on or before May 15, 1963

DESIGN–
TRACE–
CHECK–

BRIDGE NO.
SURVEY– BLAKE
PLOT– HMF

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

SURVEY

SHEET 6 OF 92 AUGUSTA, MAINE DEC. 1961

K-E 128 IMPERIAL P. L. M. INC. 67011

0 1 2 3 4 5 INCHES

B P R REG NO	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEET
:	MAINE	F-95-7(28)	7	92

WOODED ISLAND

MATCH LINE

FLOW

Stone Blanket P.E.- 5.38 only.

PIER-1 PIER-2 PIER-3 PIER-4 PIER-5 PIER-6 PIER-7

Sta. 1263+84.70

℄ Construction Southbound N88-26-26 E

℄ Construction Northbound S88-55-14 E

Reference ℄

WOOD CRIB ROCK FILLED

Remove. Pay for as Structural Excavation, Piers

LEDGE OUTCROPS

1264+93.40 Iron Pin

BM ELEV. 93.77 36" WILLOW

B/M-A-Elev. 93.51 30" Willow 196'± right Sta. 1264+93 N.B. (Highway B/M)

Woods

KENNEBEC RIVER

FLOW

PLAN

SCALE: 1"=30'

0 1 2 3 4 5 INCHES

DESIGN-
TRACE-
CHECK-
BRIDGE NO.
SURVEY- BLAKE
PLOT- HR

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

SURVEY

SHEET 7 OF 92 AUGUSTA, MAINE DEC. 1961

B P R REG NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7 (28)	8	92

WOODED ISLAND

KENNEBEC RIVER

MATCH LINE

FLOW

Sta 1268+50
End Project I-95-7(28)
Begin Project I-95-7(31)

PIER-6 PIER-7 ABUT-2

℄ Construction Southbound N 88-26-26 E

℄ Construction Northbound S 88-55-14 E

Reference ℄

Approx. Toe of Slope

SOUTHBOUND
P.C. 1271+15.67

NORTHBOUND
P.C. 1270+36.81

SOUTHBOUND
P.I. 1287+36.85
Δ = 40-23-26 L.
D = 1°18'
T = 1621.184
L = 3106.965
R = 4407.37
E = 288.71

NORTHBOUND
P.I. 1288+49.84
Δ = 43-09-43 L.
D = 1°15'
T = 1813.03
L = 3452.96
R = 4523.66
E = 345.54

C.M.P. # 106

C.M.P. # 107

C.M.P. # 109

1264+0 1265+0 1266+0 1267+0 1268+0 1269+0 1270+0 1271+0 1272+0 1273+0

Iron Pin 1264+93.46

BM
ELEV. 93.77
36" WILLOW
USGS DATUM

Woods

Sta 1267+00 END OF CONTRACT ℄
End Project I-95-7(28)
Begin Project I-95-7(31)

BM-A Elev 93.61
30" Willow 196'± right
Sta. 1264+93 NB (Highway Eff.)

CEMETERY

USGS COORDINATE STATION

BM-USGS RM2
ELEV. 145.682
NEAR SE CORNER OF CEMETERY
STA. 1275+16 625' R

PLAN
SCALE: 1"=30'

0 1 2 3 4 5 INCHES

DESIGN–	BRIDGE NO.
TRACE–	SURVEY– BLAKE
CHECK– C.D.M.	PLOT– H.N.F.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

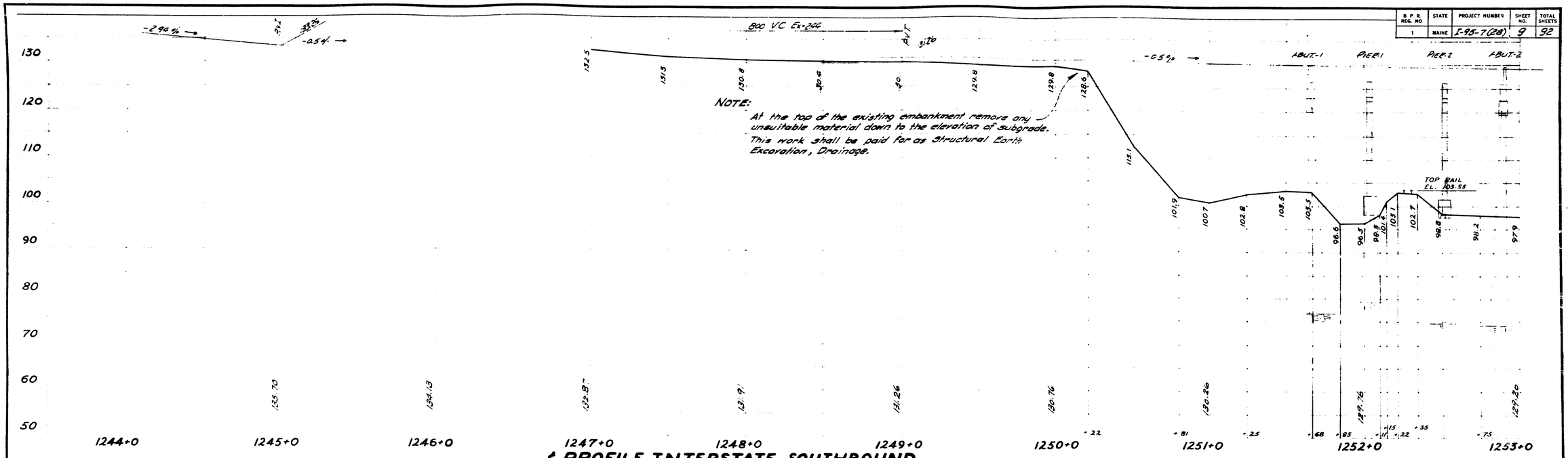
BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

SURVEY

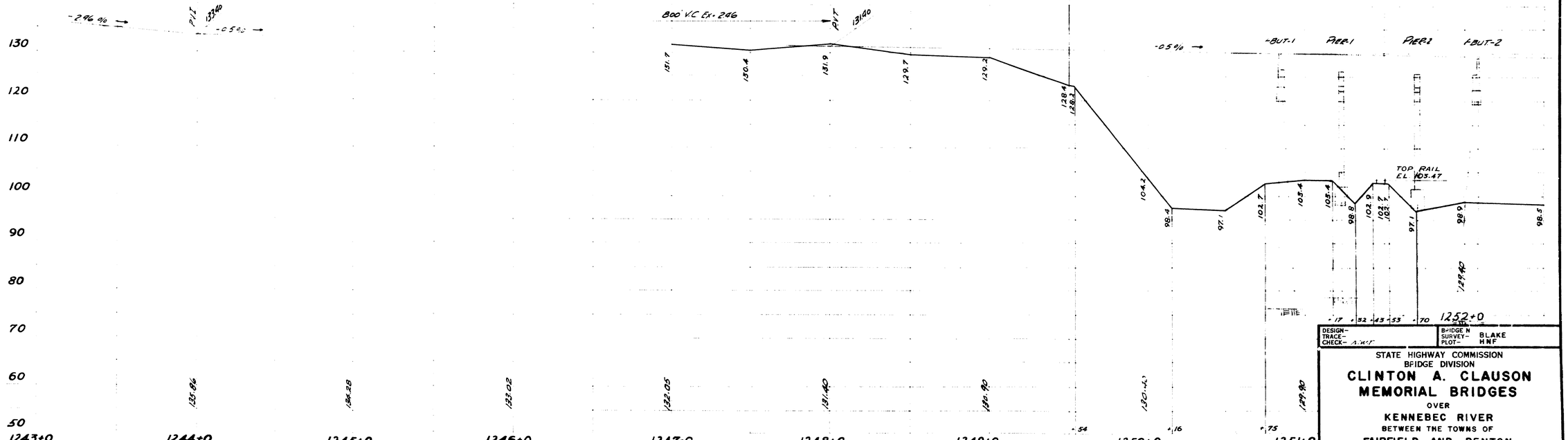
SHEET 8 OF 92 AUGUSTA, MAINE DEC. 1961

B P R REG. NO	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	9	92



& PROFILE INTERSTATE SOUTHBOUND

Sta. 1249+50 Northbound
End F.A.P. I-95-6 (21)



& PROFILE INTERSTATE NORTHBOUND

SCALE: HORIZ. 1"=30'
VERT. 1"=10'

NOTE: Finish Grades along Control Profiles

DESIGN-
TRACE-
CHECK- A.W.C.

BRIDGE N
SURVEY- BLAKE
PLOT- H.N.F.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

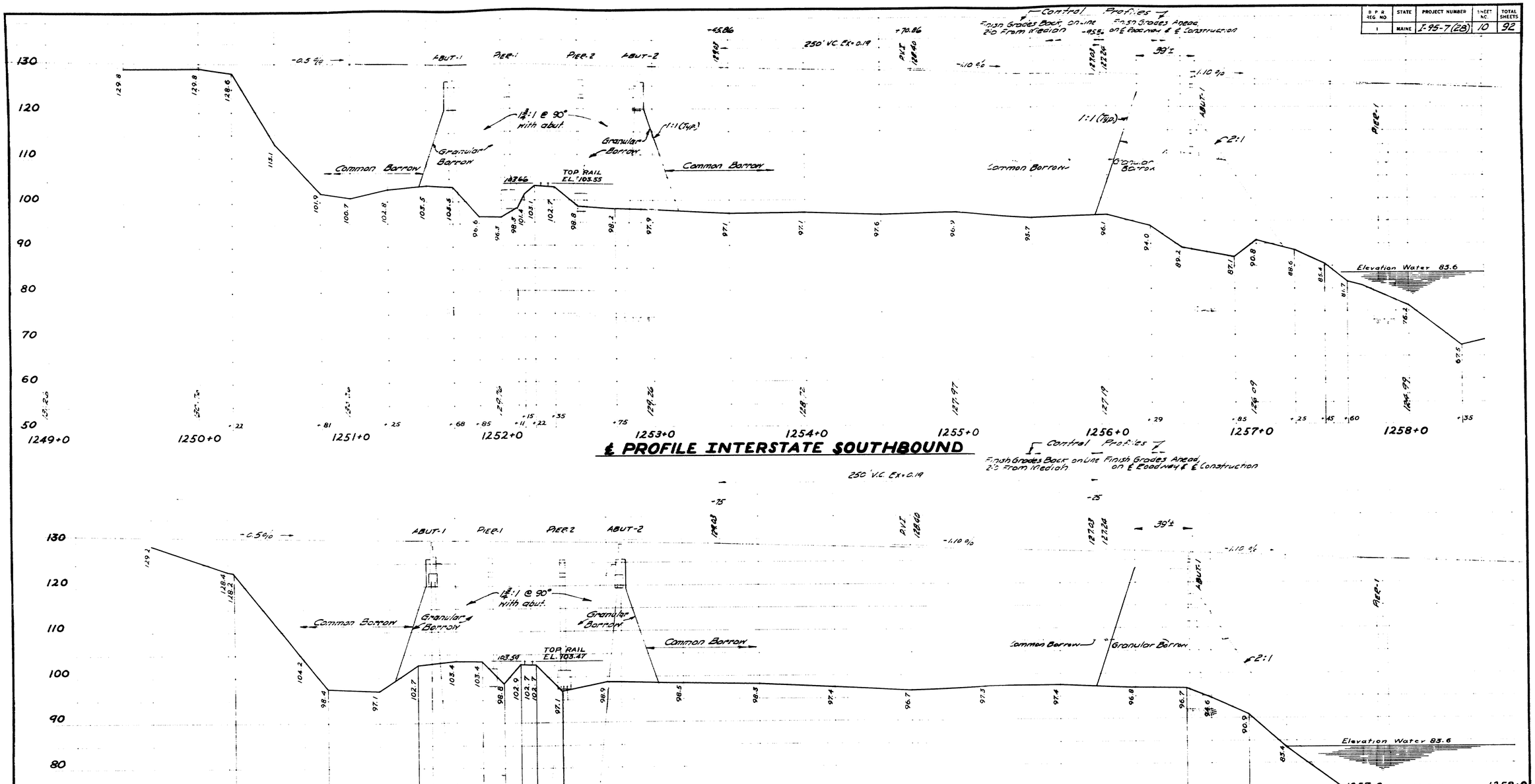
SURVEY PROFILE

SHEET 9 OF 92 AUGUSTA, MAINE DEC. 1961

K-E 186 IMPERIAL

0 1 2 3 4 5 INCHES

B P R SEC NO	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	10	92



E PROFILE INTERSTATE SOUTHBOUND

E PROFILE INTERSTATE NORTHBOUND

SCALE: HORIZ. 1"=30'
VERT. 1"=10'

NOTE: Finish Grades Along Control Profile

DESIGN–
TRACE–
CHECK– NWT

BRIDGE NO.
SURVEY BLAKE
PLOT– HMF

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

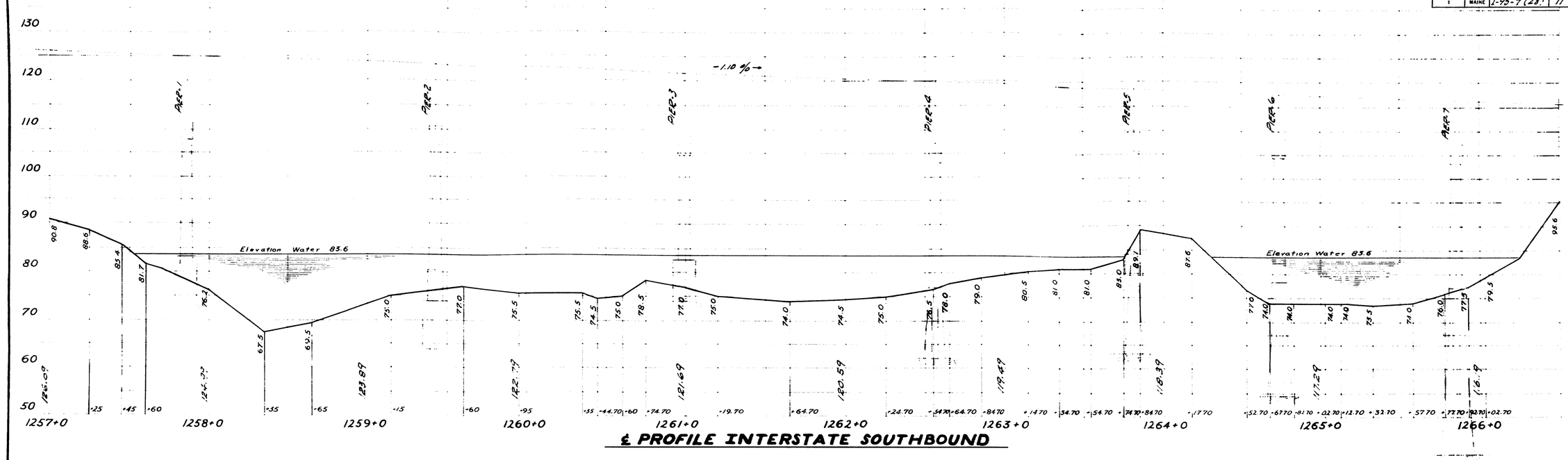
CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
SURVEY PROFILE

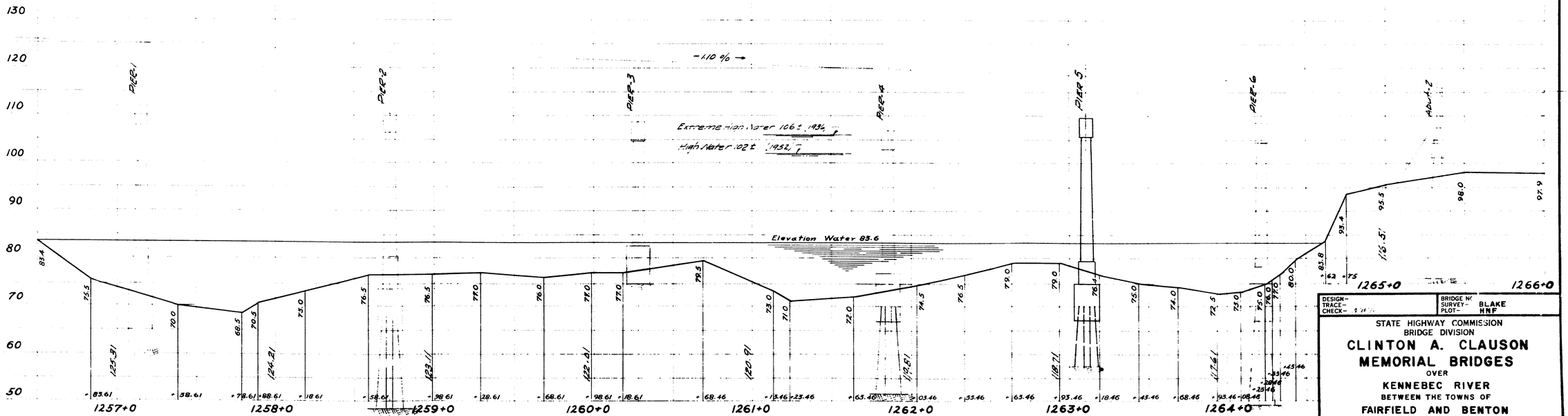
SHEET 10 OF 92 AUGUSTA, MAINE DEC. 1961

K+E 188 IMPERIAL
S. L. W. INC
0 1 2 3 4 5 INCHES

B. P. R. REG. NO	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	11	92



℄ PROFILE INTERSTATE SOUTHBOUND



℄ PROFILE INTERSTATE NORTHBOUND

SCALE: HORIZ. 1" = 30'
VERT. 1" = 10'

Note: Finish Grades Along Control Profile

DESIGN–	BRIDGE NO.
TRACE–	SURVEY– BLAKE
CHECK–	PLOT– HNF

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

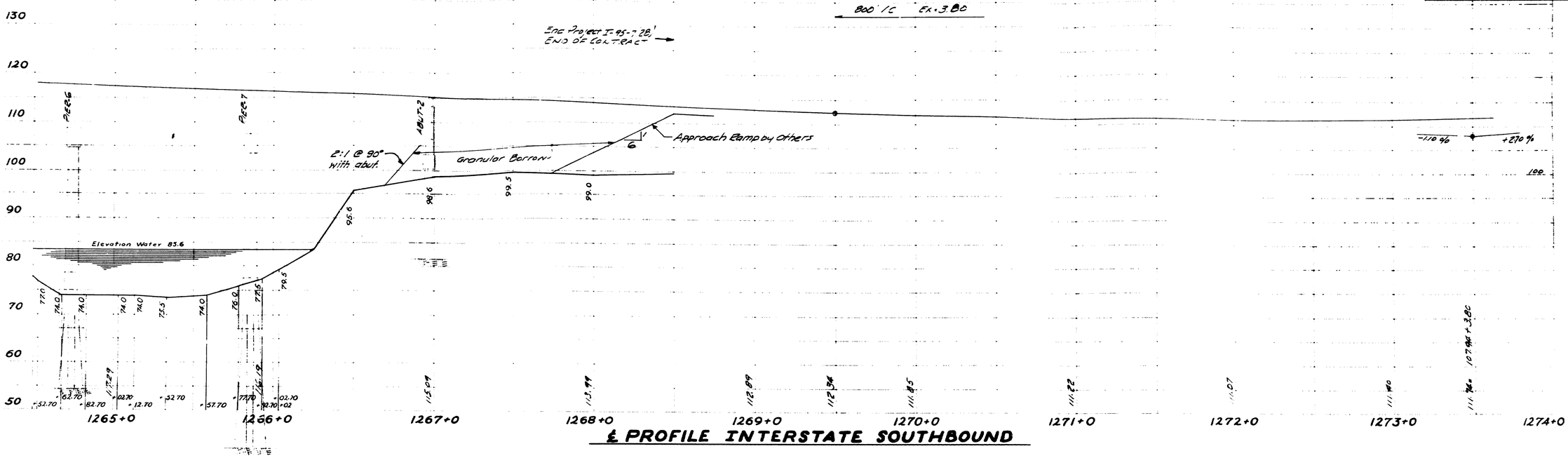
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
SURVEY PROFILE

SHEET 11 OF 92 AUGUSTA, MAINE DEC. 1961

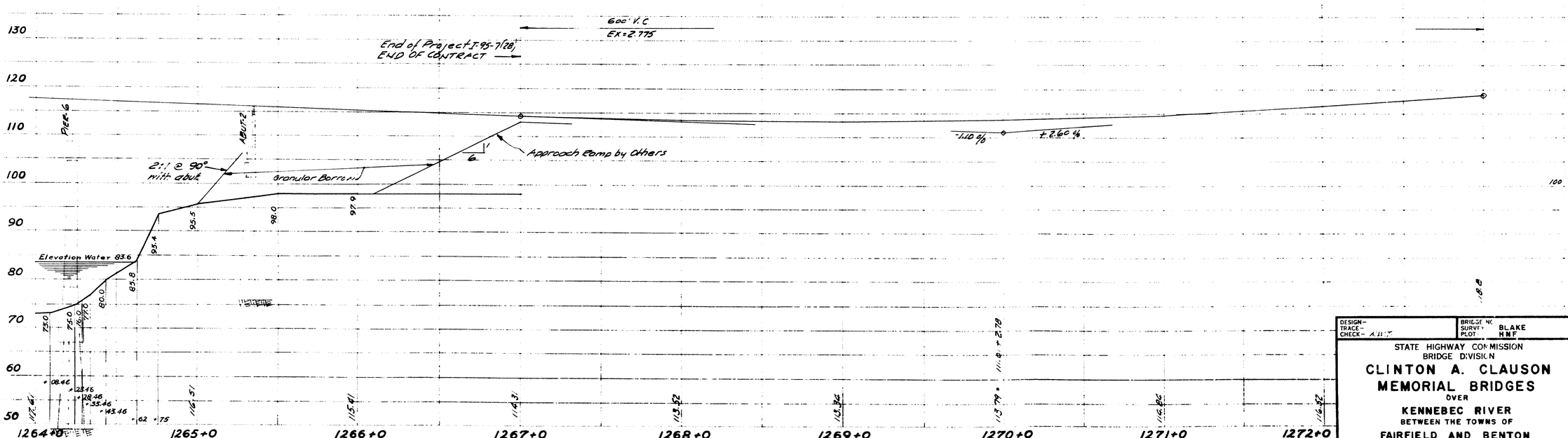
K-E 166 IMPERIAL
D. L. M. INC.

0 1 2 3 4 5 INCHES

B P R REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	12	92



℄ PROFILE INTERSTATE SOUTHBOUND



℄ PROFILE INTERSTATE NORTHBOUND

SCALE: HORIZ. 1"=30'
VERT. 1"=10'

NOTE: Finish Grades Along Control Profiles

DESIGN–
TRACE–
CHECK– A.H.T.

BRIDGE NO.
SURVEY BLAKE
PLOT HNF

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

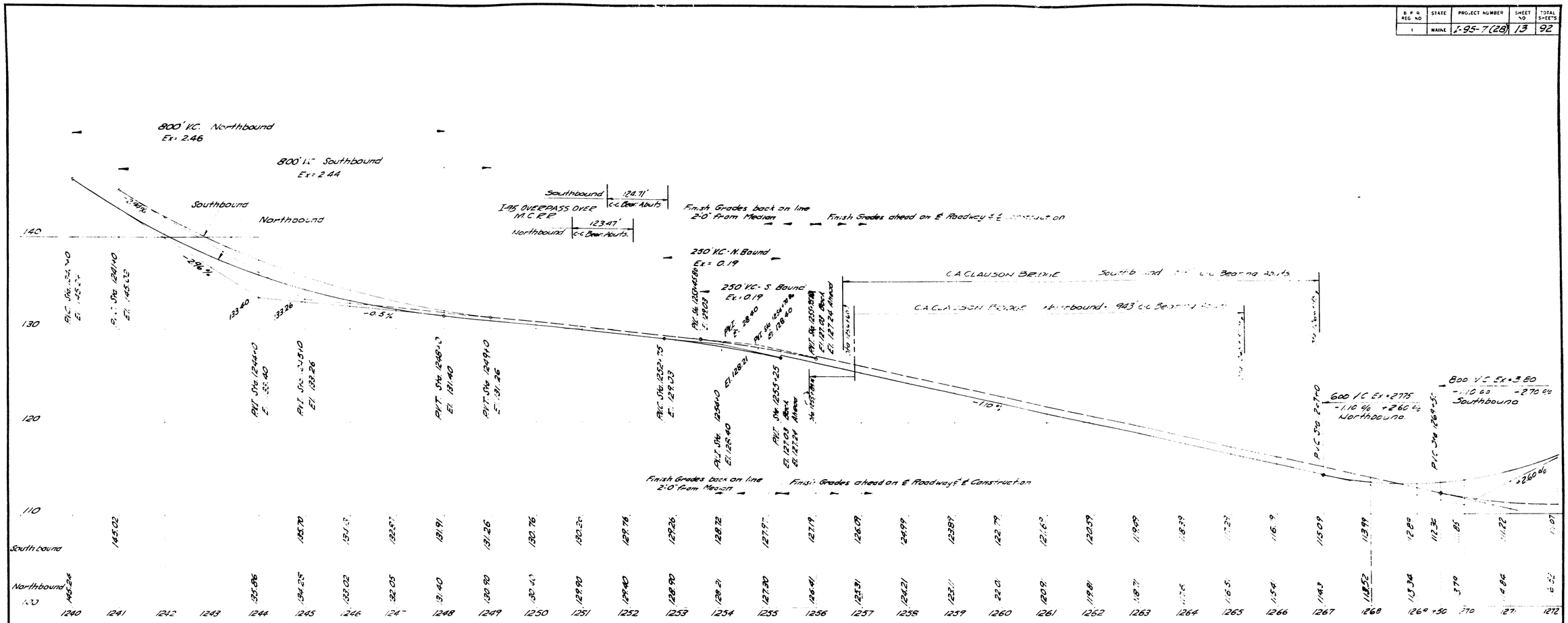
SURVEY PROFILE

SHEET 12 OF 92 AUGUSTA, MAINE DEC. 1961

K-E 188 IMPERIAL E. L. M. INC. 67011

0 1 2 3 4 5 INCHES

B P R REG NO	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	I-95-7(28)	13	92



SCALES
Hor. 1"=100'
Vert. 1"=5'

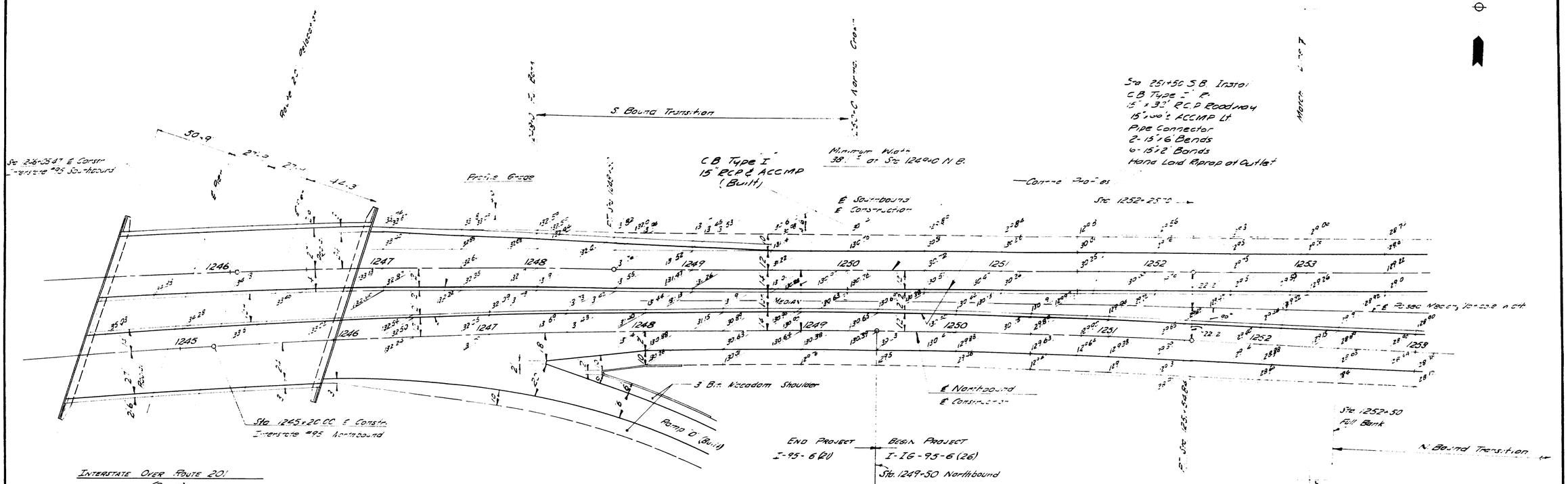
CONTROL PROFILES
FINISH GRADES

DESIGN- VE	BRIDGE NO.
TRACE- Lyon	SURVEY-
CHECK- WAT CHR	PLOT

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
CLINTON A. CLAUSON MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
CONTROL PROFILE - FINISH GRADES
SHEET 13 OF 92 AUGUSTA, MAINE Nov. 1962

0 1 2 3 4 5 INCHES

B.P.R. REG. NO	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	I-95-7(28)	14	92



FINISH GRADES
PLAN OF WESTERLY APPROACH
SCALE: 1"=30'

DESIGN- PLB
TRACE- GPM
CHECK- NMT

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

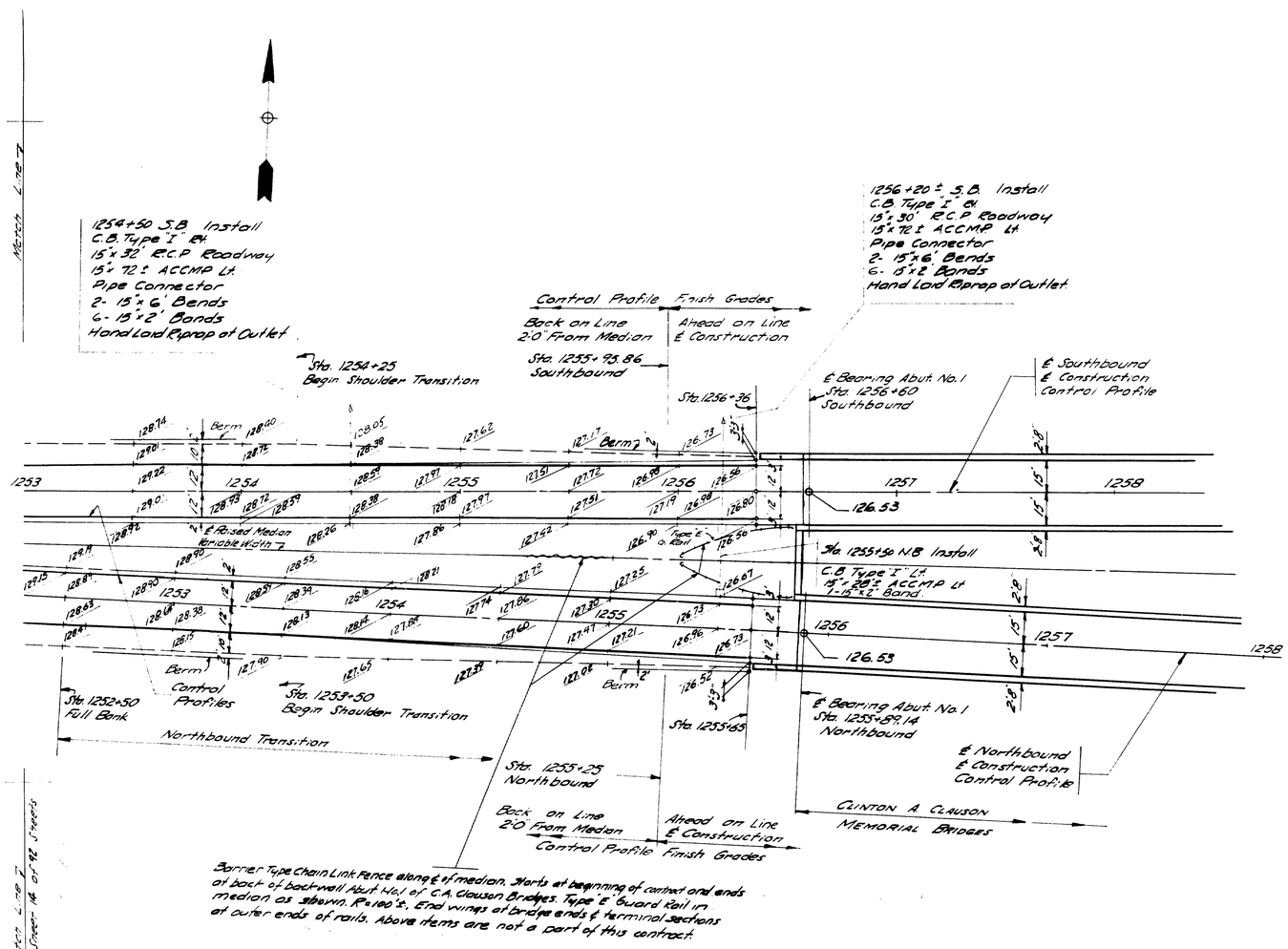
KENNEBEC RIVER
BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

FINISH GRADES – PLAN OF WESTERLY APPROACH

SHEET 14 OF 92 AUGUSTA, MAINE NOV. 196[illegible]

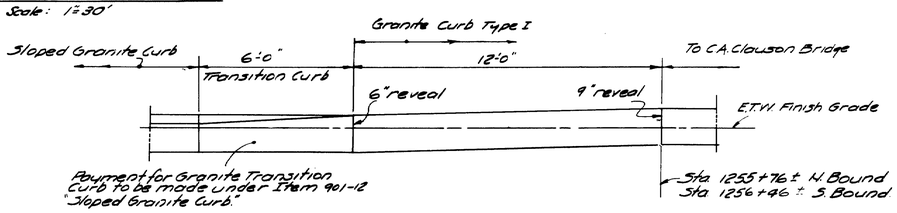
S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	15	92



FINISH GRADES

PLAN OF WESTERLY APPROACH

Scale: 1=30'



FACE VIEW

GRANITE TRANSITION CURB AT MEDIAN

Northbound Shown - Southbound Opp. Hand

DESIGN– RLB TRACE– GWH CHECK– NWT	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

FINISH GRADES – PLAN OF WESTERLY APPROACH

SHEET 15 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO. 3788 28787

U. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	MAINE	BR-95-7(28)	16	92

1056' ± c. Bearings

Elevation - Upstream Face

Scale: 1" = 4'

Elevation - Downstream Face

Scale: 1" = 4'

Section - Abut. "B"

Scale: 1" = 4'

Section - Abut. "C"

Scale: 1" = 4'

Note:
For Details of Abutment Piers
See Sheets 8 & 9.

Plan of Piers
Scale: 1" = 4'

Approved:
Director of Highways

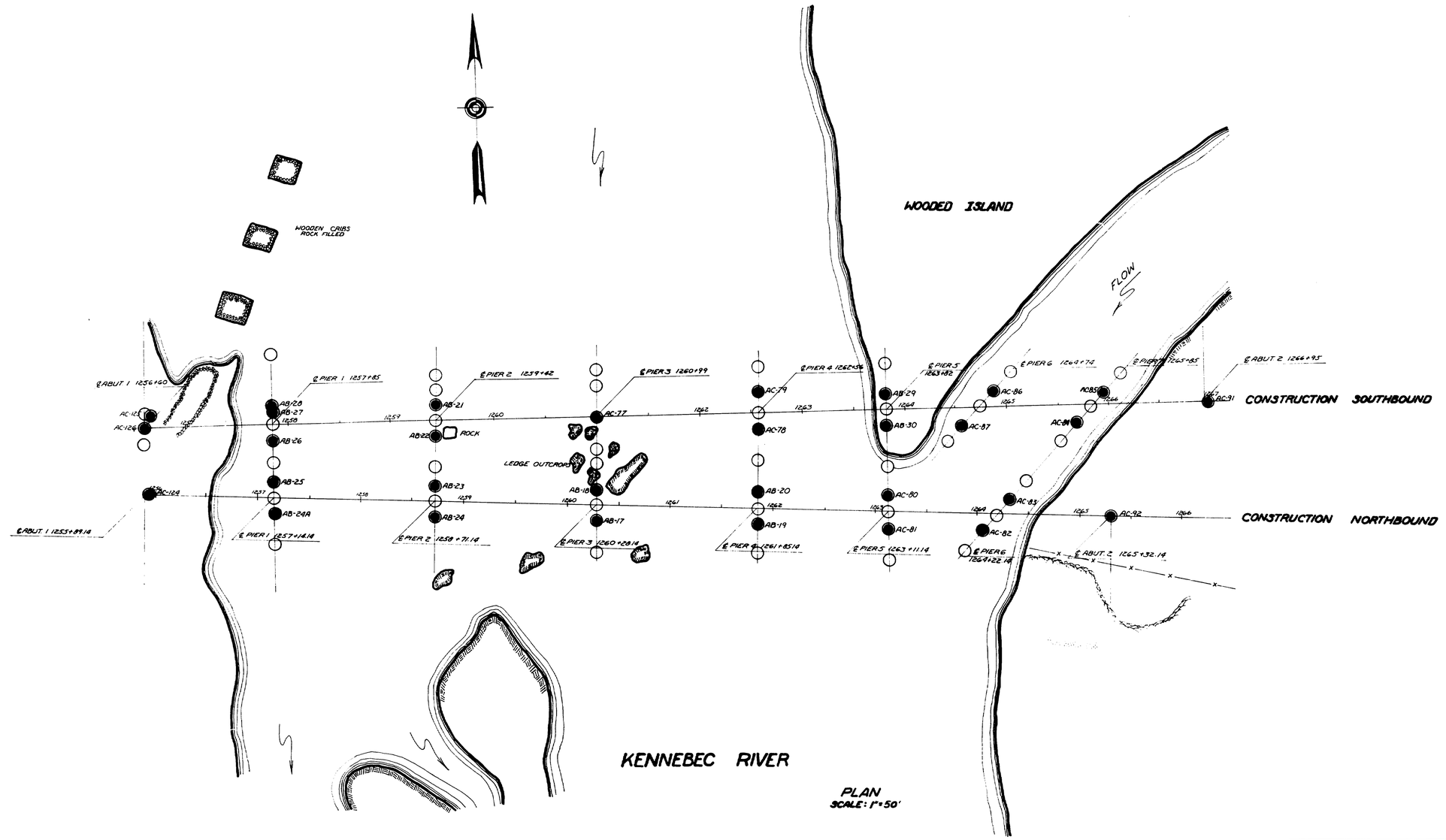
Approved:
Bureau of Public Roads

Approved:
Chief Engineer

CLINTON A. PLAUD'N
MEMORIAL BRIDGE
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
GENERAL PLAN AND ELEVATION
SHEET 16 OF 92 AUGUST [illegible] NOV. 1960

0 1 2 3 4 5 INCHES

R. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1-28	17	92



PLAN
SCALE: 1"=50'

DESIGN– TRACE– CHECK– } Soils Division	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

BORING PLAN

SHEET 17 OF 92 AUGUSTA, MAINE JULY, 1962

K-E 188 IMPERIAL B. L. M. INC.

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	18	92

ELEVATION

SOUTHBOUND

ABUTMENT 1 AC-126
BROWN SILT
LOOSE BROWN SILTY SAND
DENSE GRAY SILTY GRAVEL
℄ PIER 1
℄ PIER 2
BROWN GRAVEL
LOOSE GRAY SANDY SILT WITH SAND AND CLAY LAYERS
℄ PIER 3
℄ PIER 4
MEDIUM DENSITY GRAY SILTY SAND AND GRAVEL
FRACTURED BEDROCK OR A BOULDER
℄ PIER 5
LOOSE BROWN FINE SAND
MEDIUM DENSITY SANDY GRAVEL
℄ PIER 6
MEDIUM DENSITY BROWN SILTY SAND AND GRAVEL
ABUTMENT 2 AC-91
LOOSE BROWN FINE SAND BECOMES VERY FINE AND SILTY WITH DEPTH
STONES
MEDIUM DENSITY TO DENSE GRAY SILT SAND AND GRAVEL
VERY DENSE GRAY SILT SAND AND GRAVEL

NORTHBOUND

ABUTMENT 1 AC-124
BROWN SAND AND GRAVEL FILL OF DECK
℄ PIER 1
GRAY SILTY SAND AND GRAVEL
LOOSE GRAY LAYERS OF SAND SILT AND CLAY
MEDIUM DENSITY GRAY GRAVELLY SANDY SILT
℄ PIER 2
℄ PIER 3
LOOSE BROWN GRAVEL
℄ PIER 4
℄ PIER 5
BROWN GRAVEL
MEDIUM DENSITY GRAY SILT SAND AND GRAVEL
℄ PIER 6
ABUTMENT 2 AC-92
LOOSE BROWN FINE SAND
BROKEN ROCK

95 90 85 80 75 70 65 60 55

1256 1257 1260 1261 1263 1265 1266 1267

SCALE 1"=50' HORIZ.
1"=5' VERT.

DESIGN- TRACE- CHECK- Dallas Swanson
BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

BORING PLAN

SHEET 18 OF 92 AUGUSTA, MAINE JULY, 1962

K+E 184 IMPERIAL

B. L. M., INC.

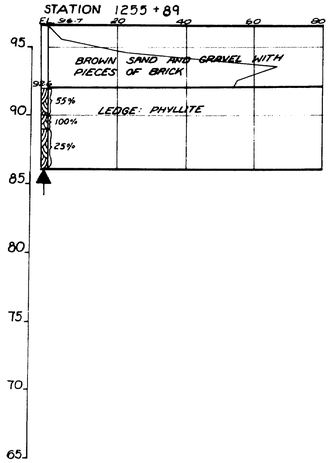
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	19	92

DRIVING RESISTANCE
BLOWS / FOOT

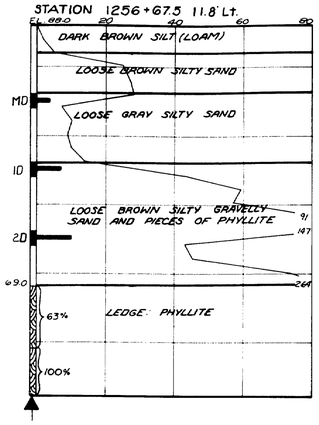
ELEVATION

BORING AC-124
STATION 1255 + 89

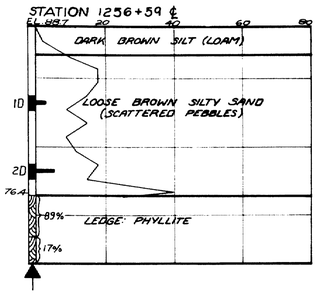


ABUTMENT NO. 1 N&S

BORING AC-125
STATION 1256 + 67.5 11.8' Lt.

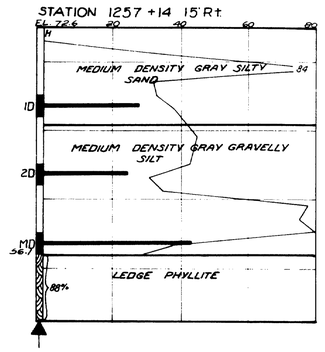


BORING AC-126
STATION 1256 + 59 ℄



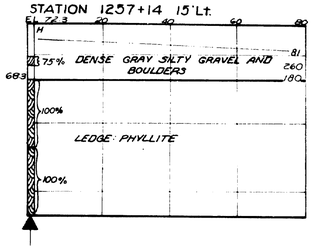
PIER NO. 1 N.B.

BORING AB-24A
STATION 1257 + 14 15' Rt.



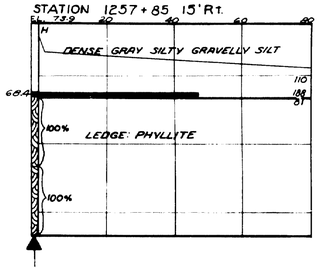
PIER NO. 1 S.B.

BORING AB-25
STATION 1257 + 14 15' Lt.



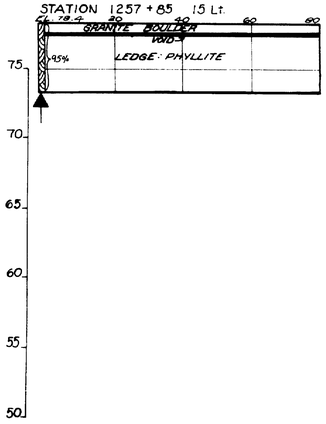
PIER NO. 1 S.B.

BORING AB-26
STATION 1257 + 85 15' Rt.

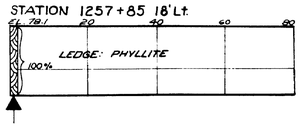


PIER NO. 1 S.B.

BORING AB-27
STATION 1257 + 85 15 Lt.

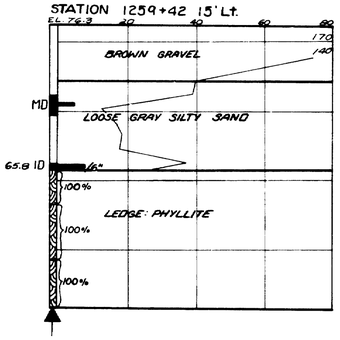


BORING AB-28
STATION 1257 + 85 18' Lt.

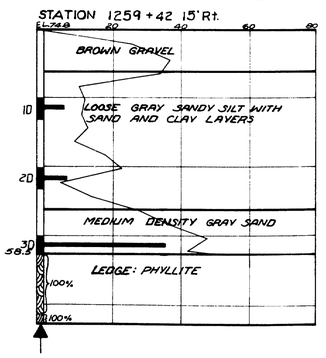


PIER NO. 2 S.B.

BORING AB-21
STATION 1259 + 42 15' Lt.



BORING AB-22
STATION 1259 + 42 15' Rt.



BORING NOTES

ALL SAMPLES AND VANES ARE MADE AHEAD OF CASING
N — NUMBER OF BLOWS REQUIRED TO DRIVE EXTRA HEAVY CASING ONE FOOT WITH 400 ft lbs. OF ENERGY PER BLOW
— LOCATION OF SAMPLE OR SAMPLE ATTEMPT
NUMBER AND TYPE OF DRY SAMPLE
ID — 3 & H SAMPLER # 1290-S
IC — 2" O.D. 16ga SEAMLESS TUBING
MD — UNSUCCESSFUL SAMPLE ATTEMPT AND TYPE OF SAMPLE
— NUMBER OF BLOWS REQUIRED TO DRIVE SPOON OR TUBING ONE FOOT WITH 350 ft lbs. OF ENERGY PER BLOW
H — SAMPLING SPOON OR SEAMLESS TUBING DRIVEN BY STATIC WEIGHT OF DRILL RODS AND HAMMER
— FIELD VANE TEST
— BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
— LOCATION CORED BY DIAMOND BIT AND PER CENT
71% — RECOVERY OF ROCK

DESIGN— TRACE— CHECK— Soils Division

BRIDGE NO.
SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

BORING DETAILS

SHEET 19 OF 92 AUGUSTA, MAINE JULY, 1962

C. B. CO., NO. 3788 #8797

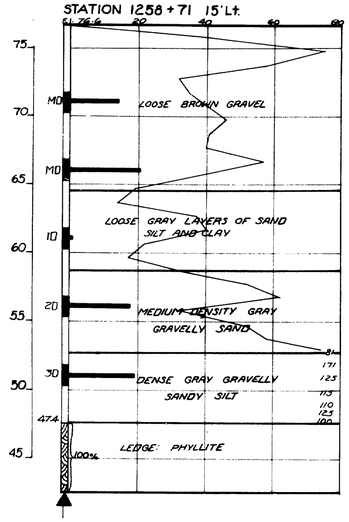
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	20	92

ELEVATION

PIER NO. 2 N.B.

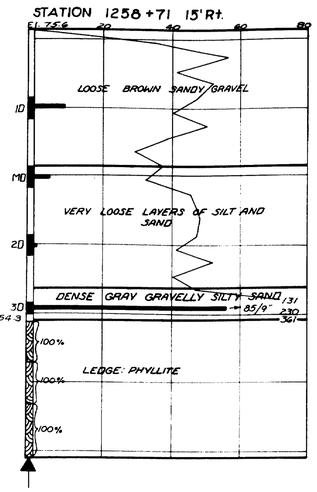
BORING AB-23

STATION 1258+71 15'Lt.



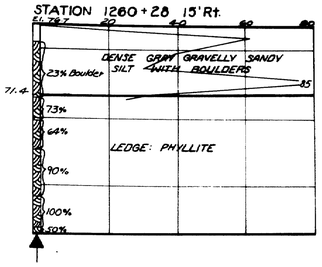
BORING AB-24

STATION 1258+71 15'Rt.



BORING AB-17

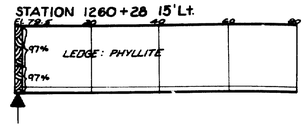
STATION 1260+28 15'Rt.



PIER NO. 3 N&S

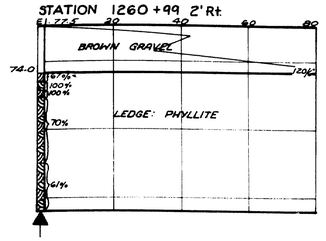
BORING AB-18

STATION 1260+28 15'Lt.



BORING AC-77

STATION 1260+99 2'Rt.

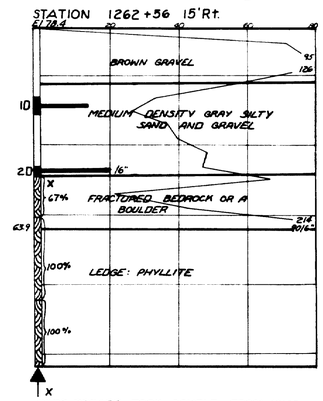


DRIVING RESISTANCE
BLOWS / FOOT

PIER NO. 4 S.B.

BORING AC-78

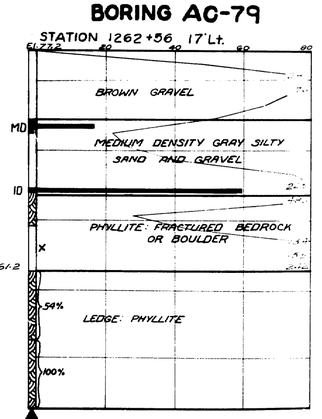
STATION 1262+56 15'Rt.



X CORE DRILLED TOOK SAMPLE FROM 10'6" TO 13'-6" BROKE THROUGH FOR ABOUT 6" DYNAMITED HOLE DROVE 2½" CASING TO 14'6"

BORING AC-79

STATION 1262+56 17'Lt.

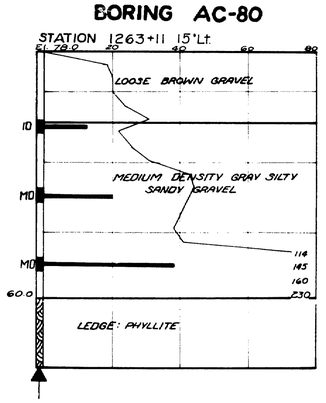


X CORE DRILLED TOOK SAMPLE FROM 10'3" TO 12'9" BROKE THROUGH FOR ABOUT 6" DYNAMITED HOLE DROVE 2½ CASING TO 15' BENT CASING PULLED CASING AND MOVED RIG ABOUT 2' DROVE 2½" CASING TO 16'

PIER NO. 5 N.B.

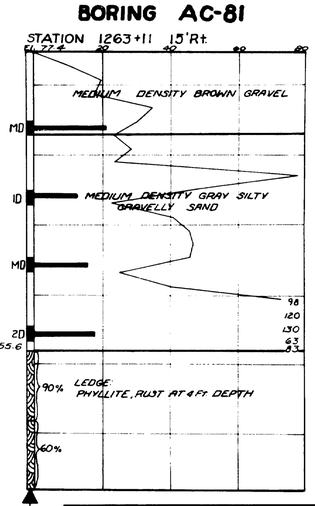
BORING AC-80

STATION 1263+11 15'Lt.



BORING AC-81

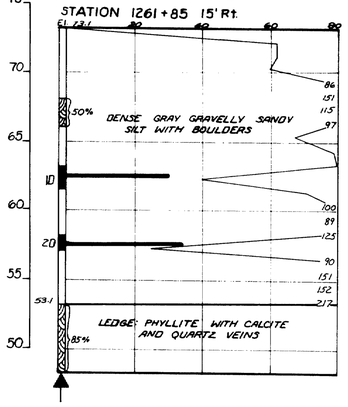
STATION 1263+11 15'Rt.



PIER NO. 4 N.B.

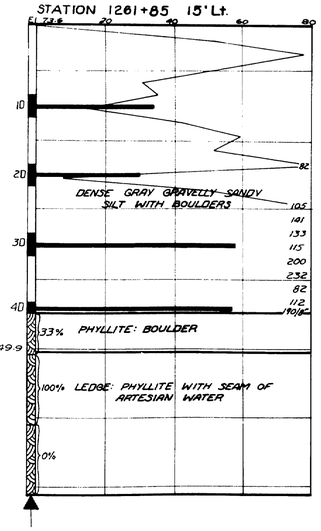
BORING AB-19

STATION 1261+85 15'Rt.



BORING AB-20

STATION 1261+85 15'Lt.



DESIGN– TRACE– CHECK–	Soils Division	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

BORING DETAILS

SHEET 20 OF 92 AUGUSTA, MAINE JULY, 1962

C. H. CO., NO 3798 88167

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	21	92

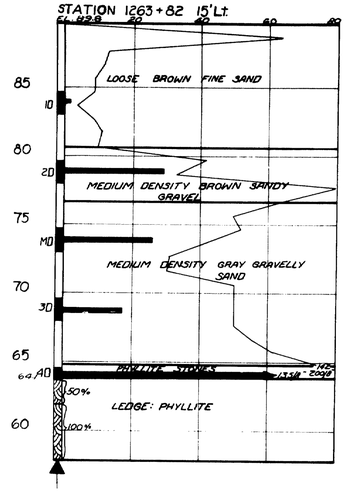
DRIVING RESISTANCE

ELEVATION

PIER NO. 5 S.B.

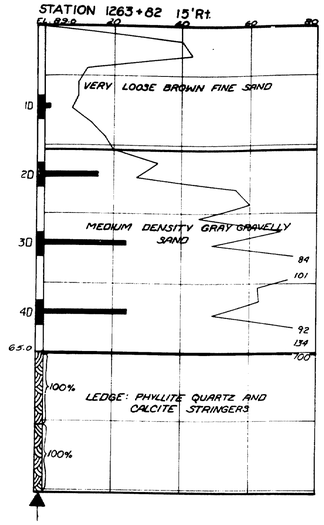
BORING AB-29

STATION 1263+82 15' Lt.



BORING AB-30

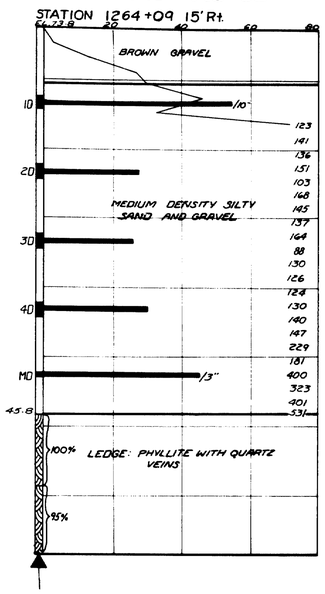
STATION 1263+82 15' Rt.



PIER NO. 6 N&S

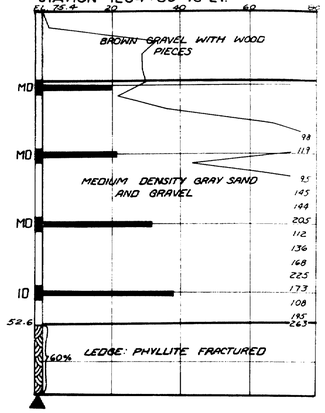
BORING AC-82

STATION 1264+09 15' Rt.



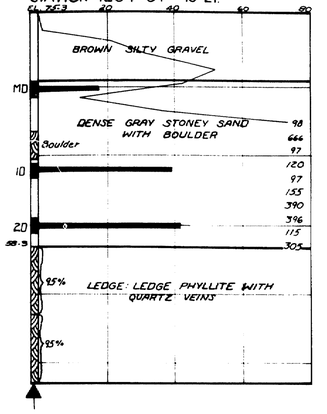
BORING AC-83

STATION 1264+35 15' Lt.



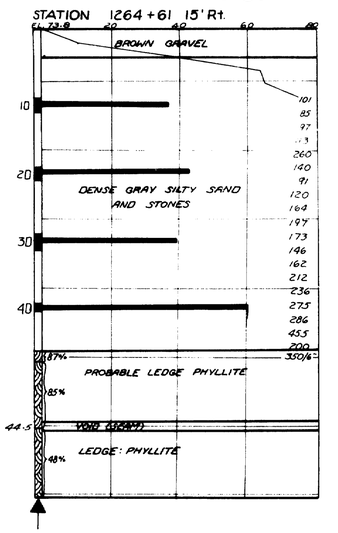
BORING AC-86

STATION 1264+87 15' Lt.



BORING AC-87

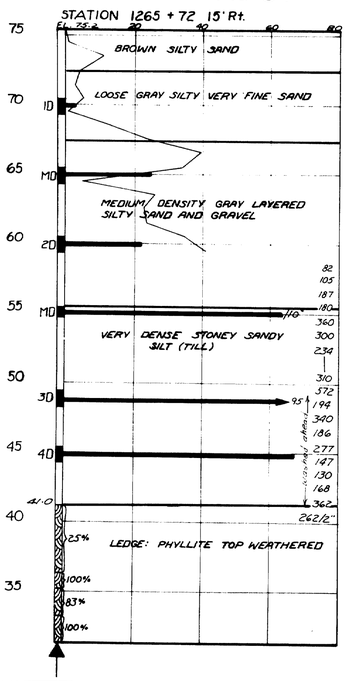
STATION 1264+61 15' Rt.



PIER NO. 7 S.B.

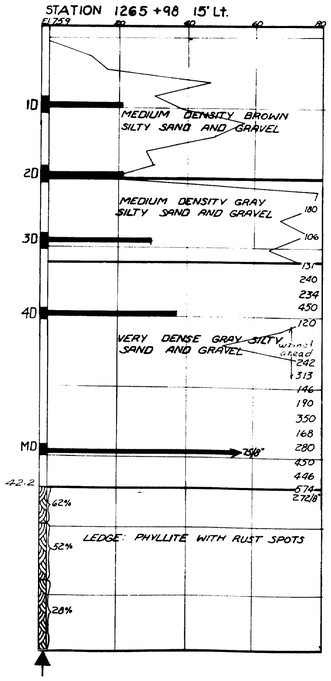
BORING AC-84

STATION 1265+72 15' Rt.



BORING AC-85

STATION 1265+98 15' Lt.

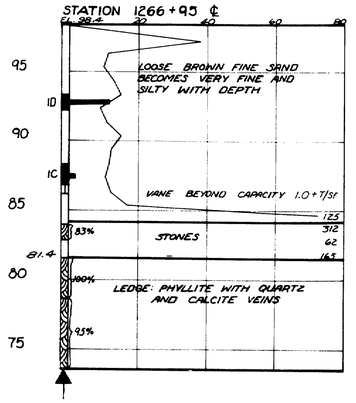


ELEVATION

ABUTMENT NO. 2 N&S

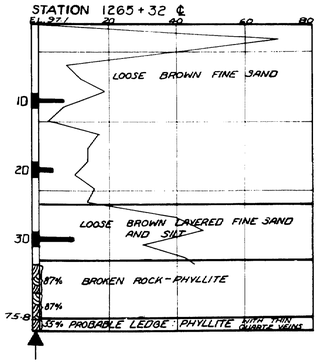
BORING AC-91

STATION 1266+95 ℄



BORING AC-92

STATION 1265+32 ℄



DESIGN– TRACE– CHECK–	Soils Division	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

BORING DETAILS

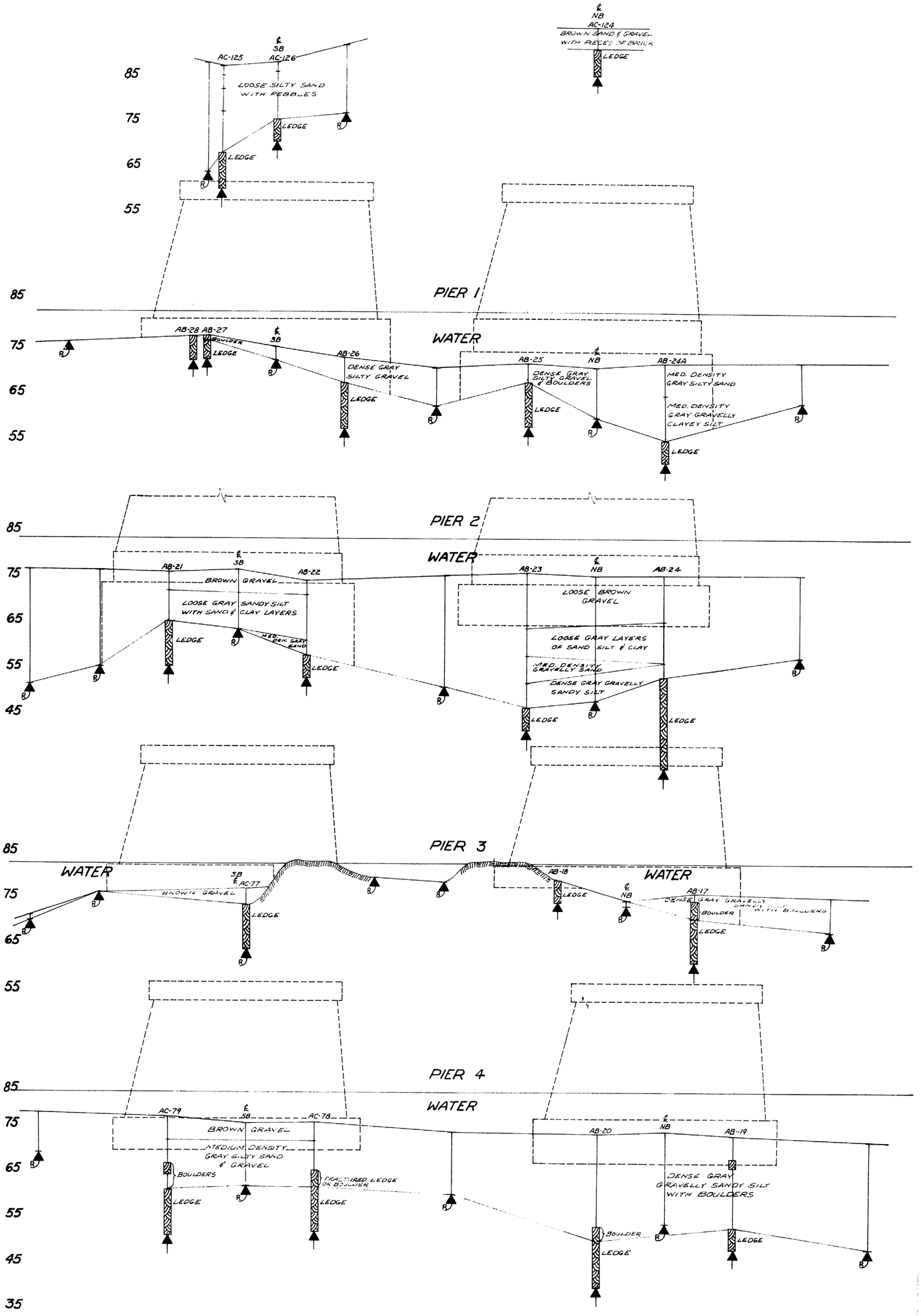
SHEET 21 OF 92 AUGUSTA, MAINE JULY, 1962

C. B. CO., NO 3788

0 1 2 3 4 5 INCHES

TRANSVERSE SECTIONS

ABUTMENT 1



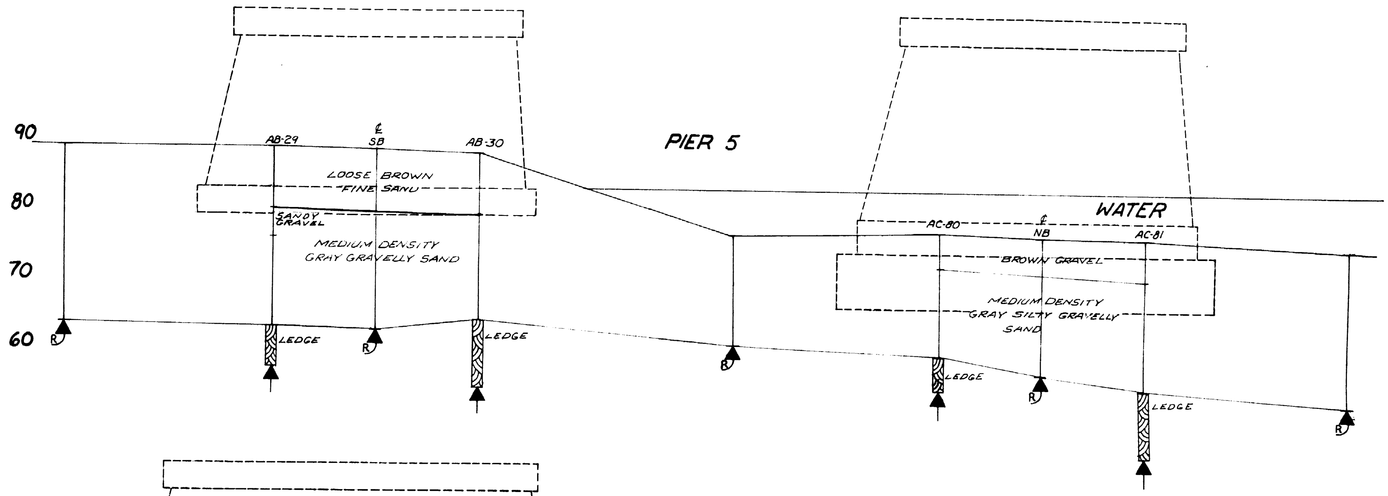
SCALE 1"=10'

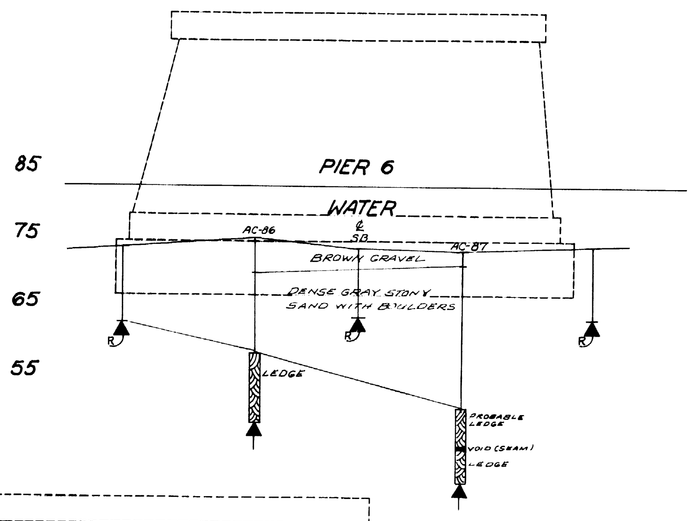
CLINTON A. CLAUSON MEMORIAL BRIDGES
TRANSVERSE SECTIONS
BORINGS

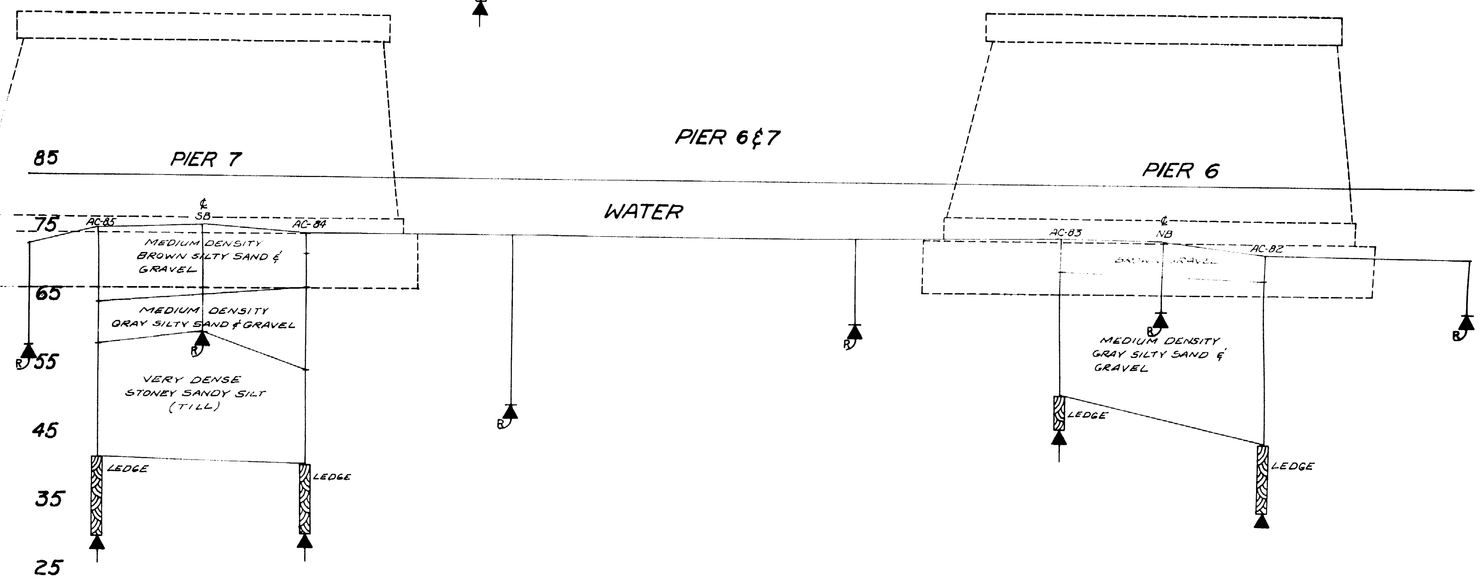
SHEET 22 OF 32 JULY, 1962

(8221-56-1)
22
25
SHEETS

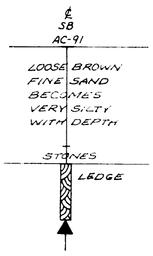
TRANSVERSE SECTIONS

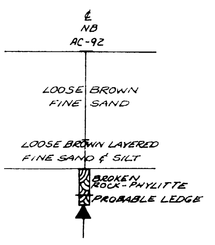






ABUTMENT 2



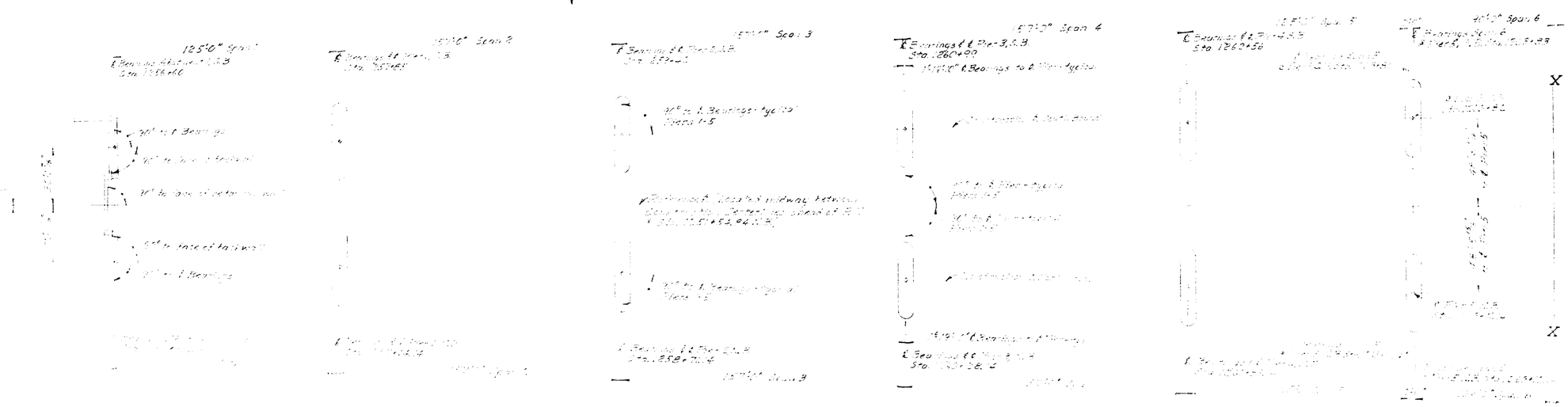


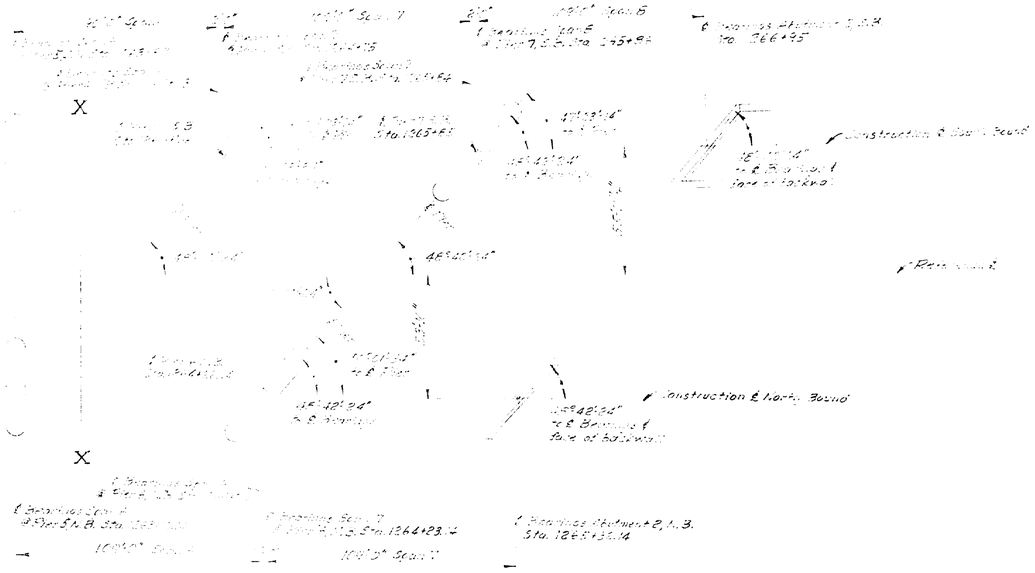
SCALE 1"=10'

CLINTON A. CLAUSON MEMORIAL BRIDGES
TRANSVERSE SECTIONS
BORINGS

SHEET 83 OF 92 JULY, 1962

B.P.R. REG.NO	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(88)	24	32





0 1 2 3 4 5 INCHES

CLINTON A. CLAUSON
MEMORIAL BRIDGES

OVER

BETWEEN THE TOWNS OF

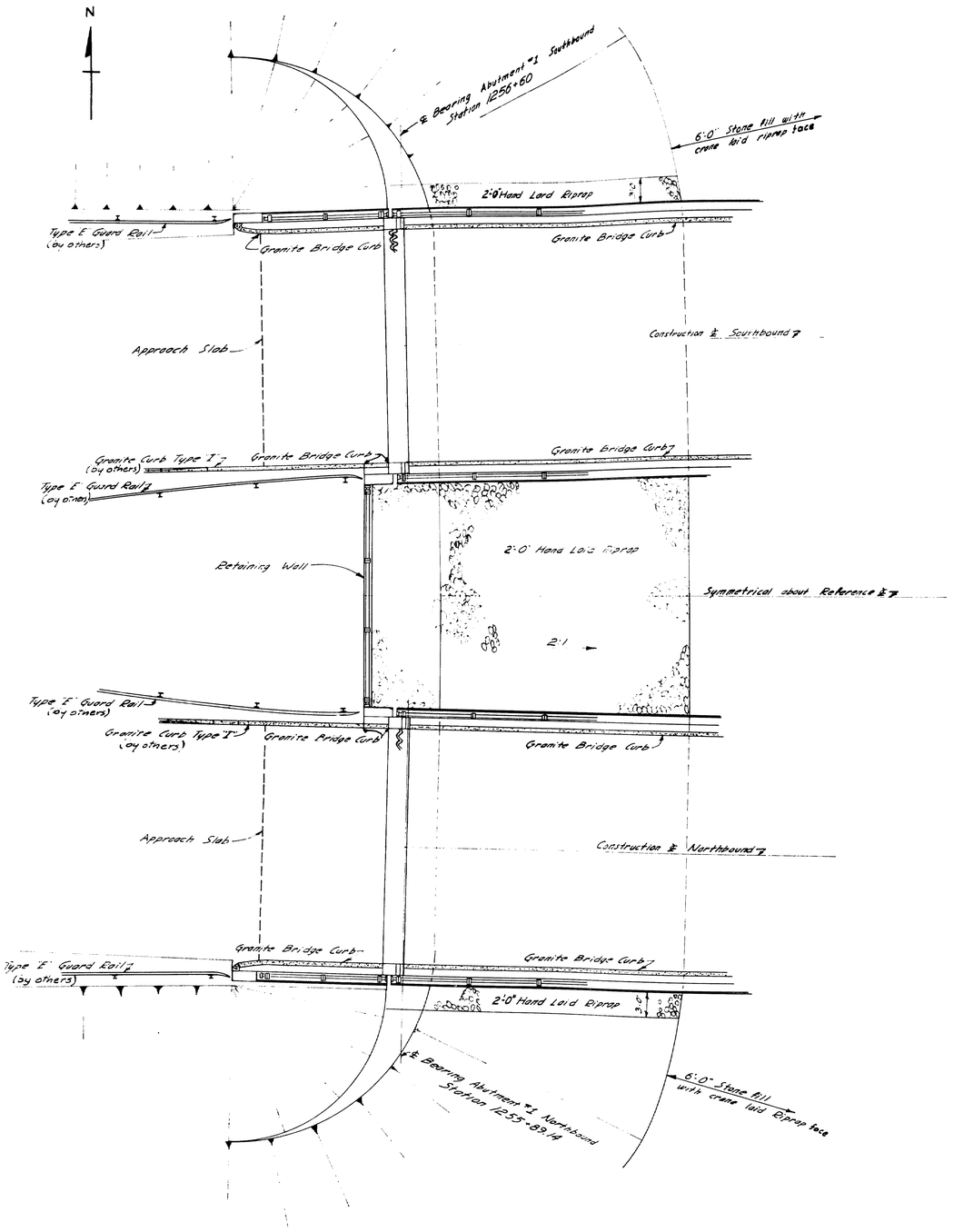
AND

KENNEBEC COUNTIES

SUBSTRUCTURE LAYOUT

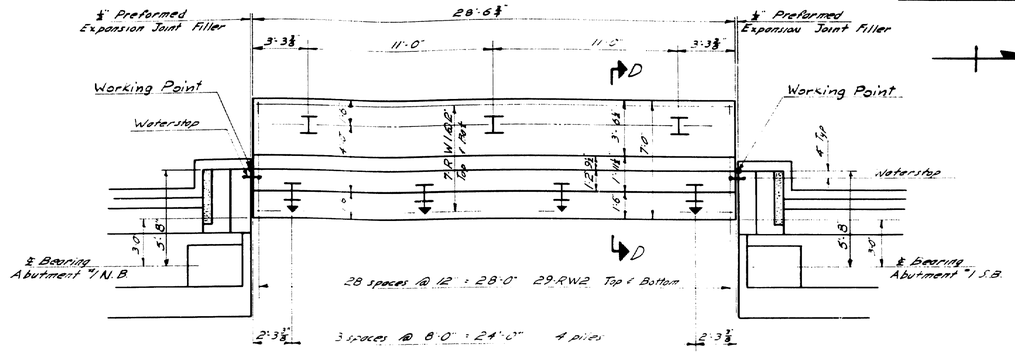
AUGUSTA, MAINE NOV. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	25	32



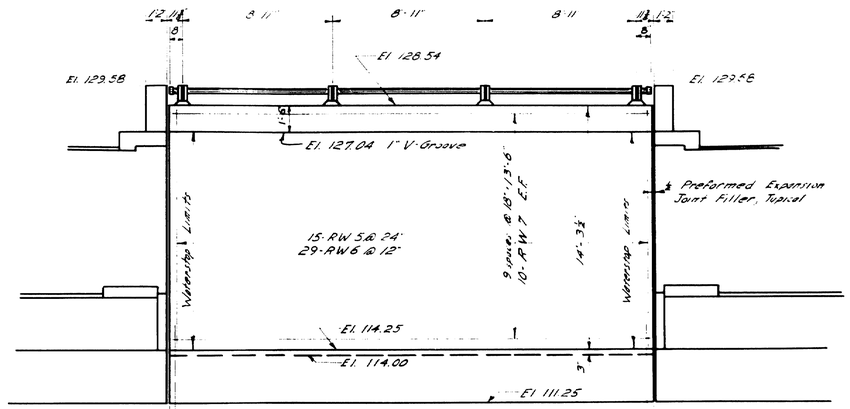
PLAN ABUTMENT #1

Northbound & Southbound

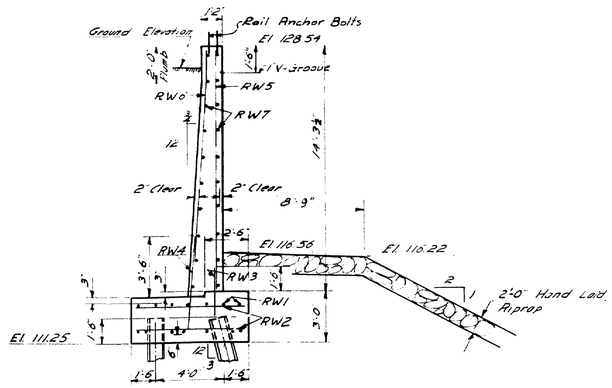


PLAN - RETAINING WALL

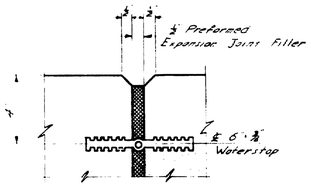
7-12BP53 – H Steel Bearing Piles driven to ledge or practical refusal.
Estimated Length = 45'
All piles shown thus ⊥ to be battered 3 ft in the direction of arrow.



FRONT ELEVATION



SECTION D-D



WATERSTOP DETAIL

DESIGN– T H K TRACE– H T A CHECK– A.H.R. CON	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

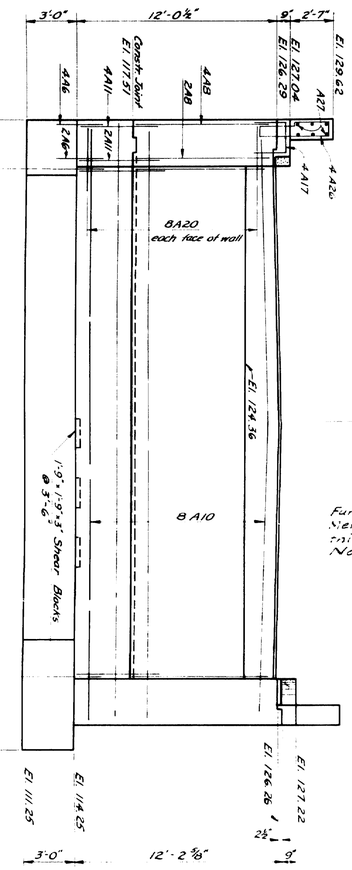
ABUTMENTS 1 & RETAINING WALL, NB. & SB.

SHEET 25 OF 32 AUGUSTA, MAINE NOV., 1962

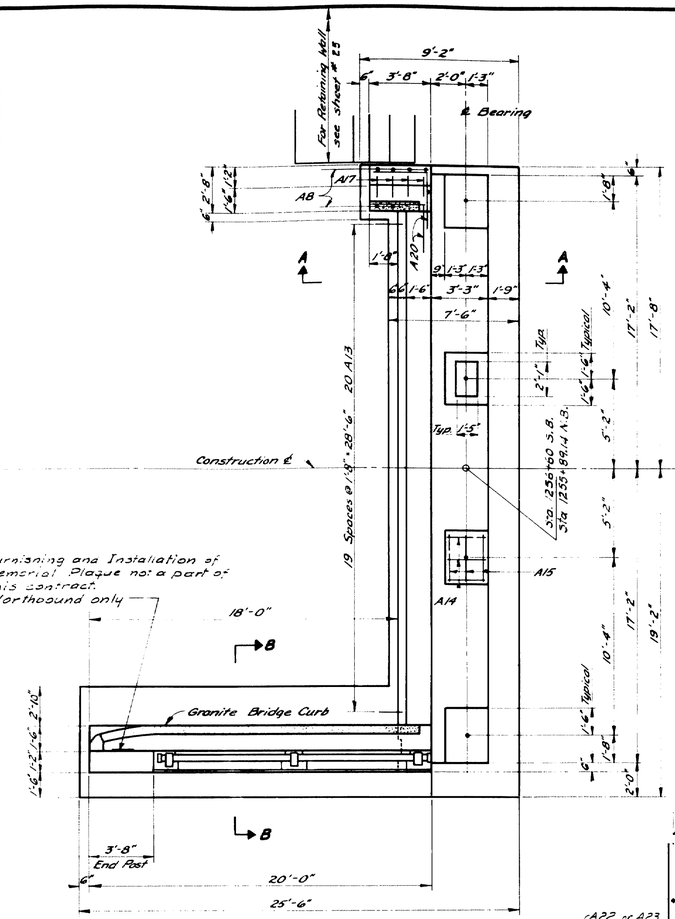
C. D. CO., NO 3788 48167

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	26	32

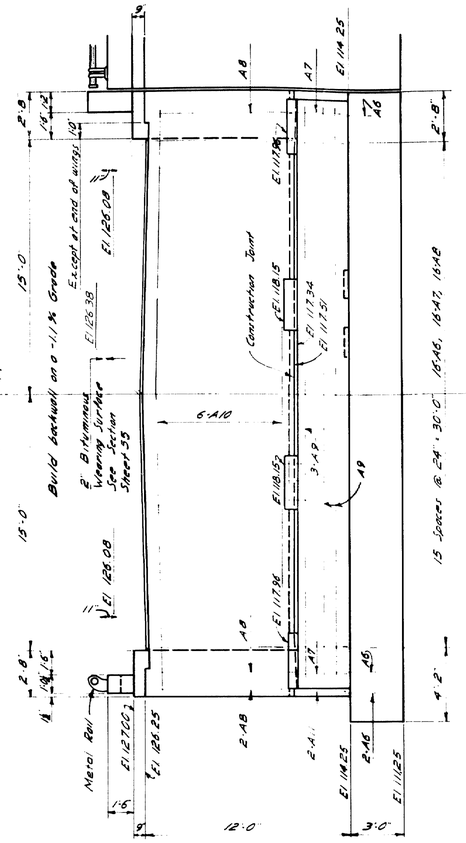


REAR ELEVATION

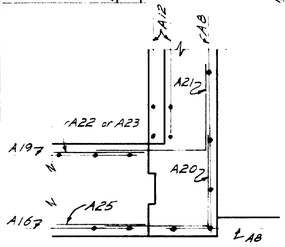


PLAN

Northbound - as shown
Southbound - opposite hand

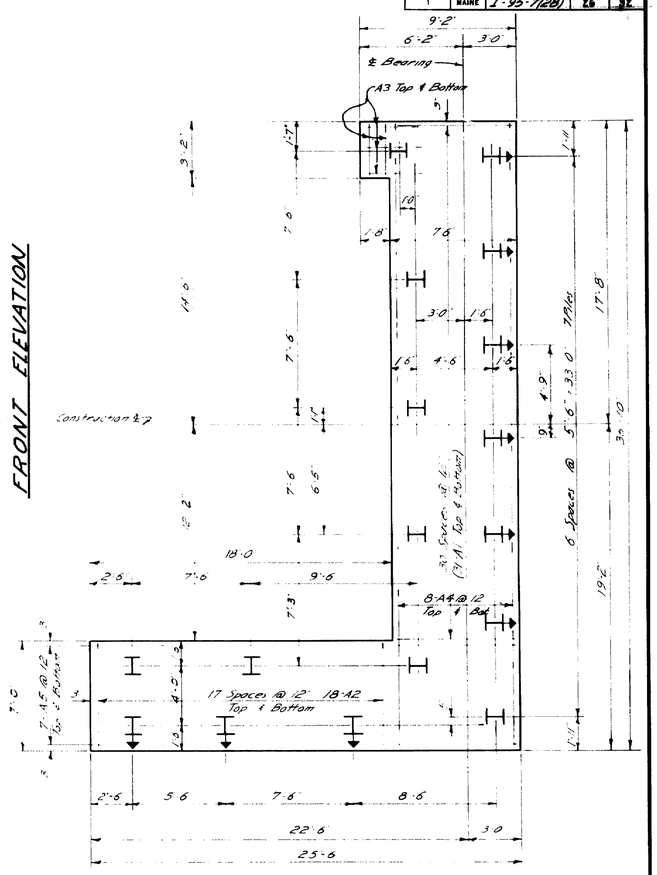


N.B. = NorthBound
S.B. = SouthBound
N.F. = Near face
F.F. = Far Face



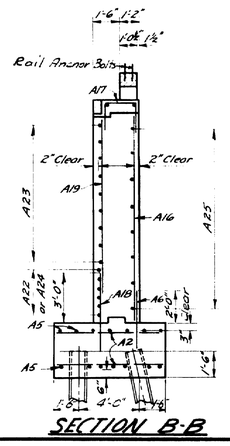
SECTION C-C

FRONT ELEVATION

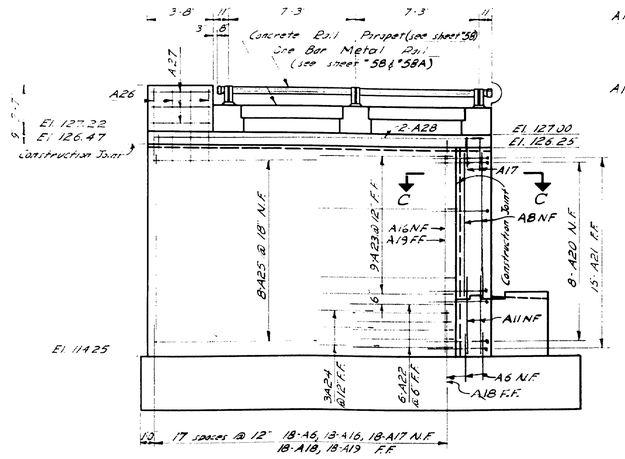


FOOTING PLAN

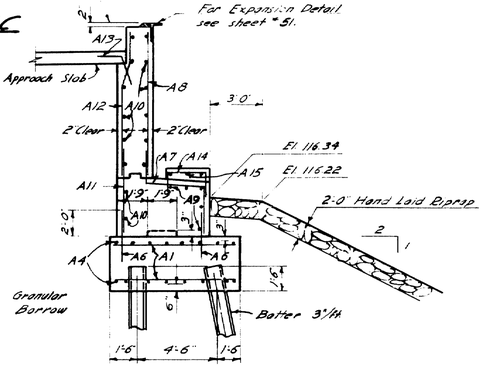
Piles to be BP53 - H steel Bearing Pile driven to ledge or practical refusal.
Estimated length = N.B. - 17 @ 35°
S.B. - 8 @ 60° Wing Wall; 9 @ 50° Breastwall
Allowable load = 46.75 tons/sq.in.
All piles shown thus ⊢ to be battered 3" in the direction of the arrow.



SECTION B-B



WING ELEVATION



SECTION A-A

GENERAL NOTES:

Dress shaded bearing areas to exact elevations and dimensions shown.
Minimum cover for reinforcing steel to be 2" unless otherwise shown.
Reinforcing steel to clear anchor bolts.
Caulk around edge of masonry plates with an approved caulking material.
Payment for this work shall be incidental to the contract items.
Paint bridge seat, face of backwall and 10" below top of riprap on face of breastwall with Gray Epoxy Resin Surface Sealant.
Granular Borrow shall be placed up to the bottom of the footing elevation before piles are driven.
In the area where piles are to be driven, stones larger than 6" will not be permitted in the Granular Borrow.

For Granite Bridge Curb Details & Approach Slab Details see sheet #27

Cover all vertical construction joints on the back with two layers of heavy roofing 10" wide. Coat the concrete and the back of each layer as applied with a suitable grade of plastic cement. Recess area to be covered 4".

DESIGN - T.H.K.
TRACE - R.T.A.
CHECK - A.H.F. EDH

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

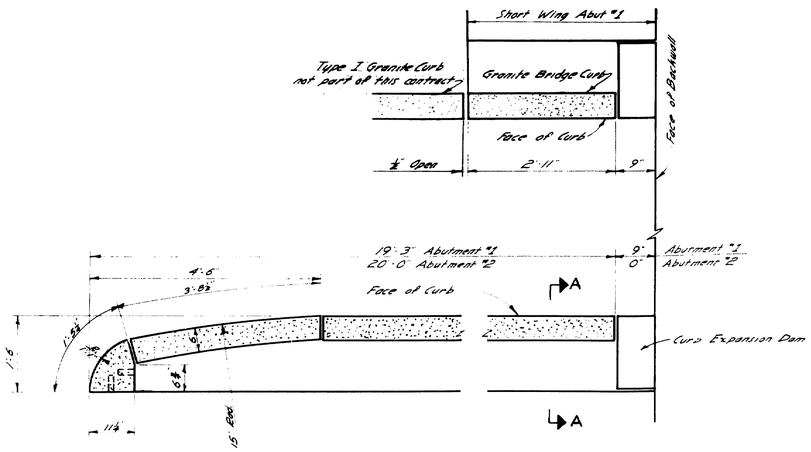
ABUTMENTS 1, NB. & SB.

SHEET 26 OF 32 AUGUSTA, MAINE [redacted] 1962

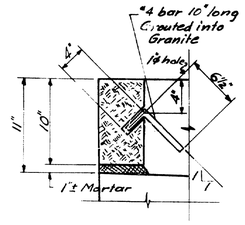
C. B. CO. NO 3788 25767

0 1 2 3 4 5 INCHES

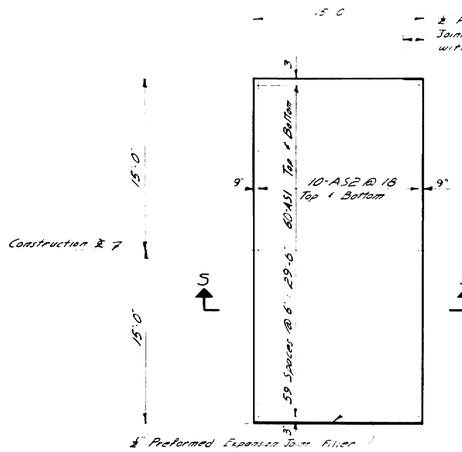
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	27	92



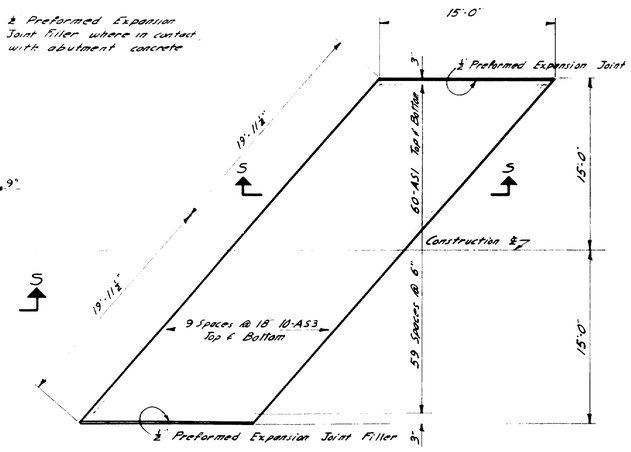
GRANITE BRIDGE CURB DETAIL
FOR
ABUTMENT #1 & #2



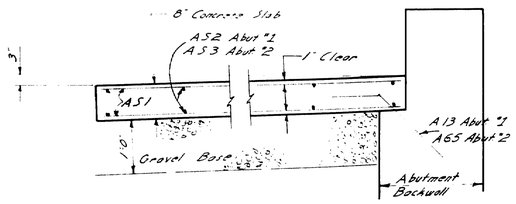
SECTION A-A



PLAN @ ABUTMENT #1

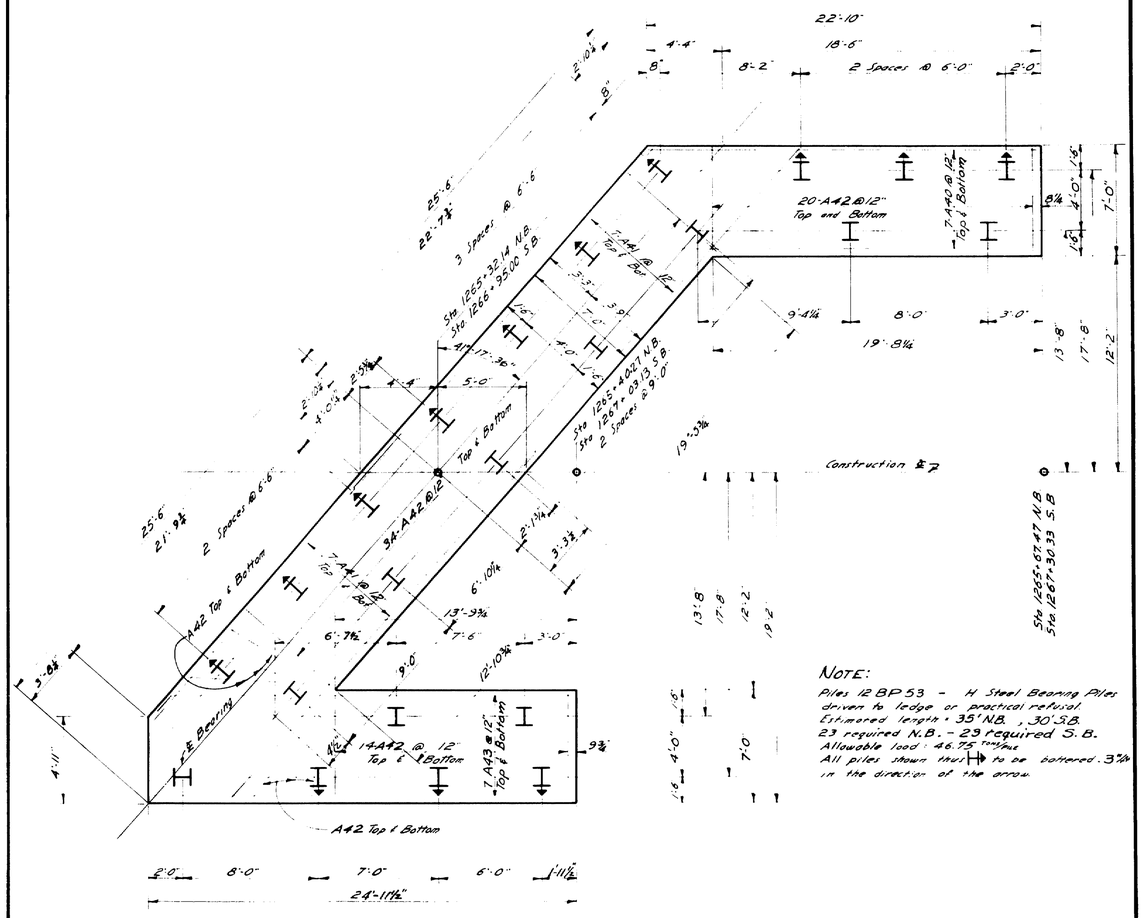


PLAN @ ABUTMENT #2



SECTION S-S

APPROACH SLAB DETAILS



FOOTING PLAN
ABUTMENT #2 NORTHBOUND & SOUTHBOUND

NOTE:
Piles 12 BP 53 - H Steel Bearing Piles driven to ledge or practical refusal.
Estimated length - 35' N.B., 30' S.B.
23 required N.B., - 23 required S.B.
Allowable load - 46.75 tons/pile.
All piles shown thus ⊢ to be battered 3¾ in the direction of the arrow.

DESIGN- R.W.K.
TRACE- R.T.A.
CHECK- A.H.P. C.D.H.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

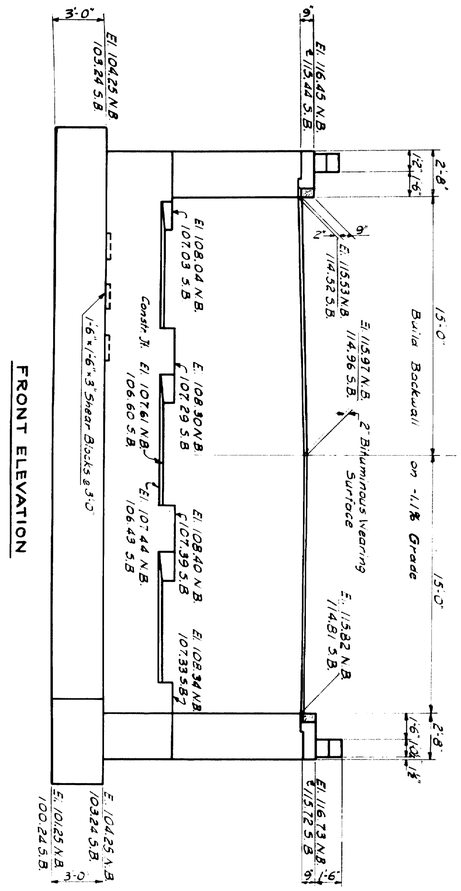
ABUTMENTS

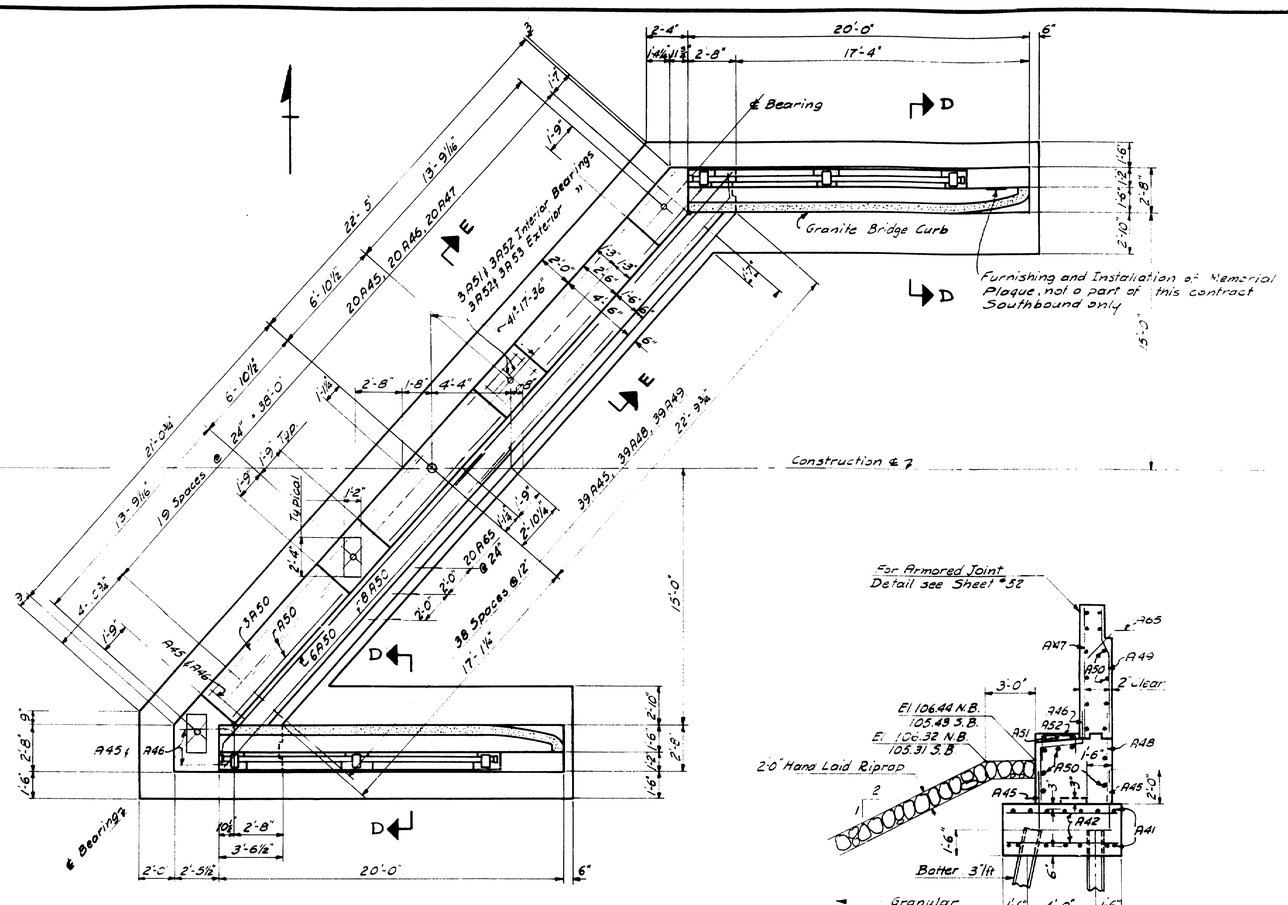
SHEET 27 OF 92 AUGUST, MAINE, NOV. 1962

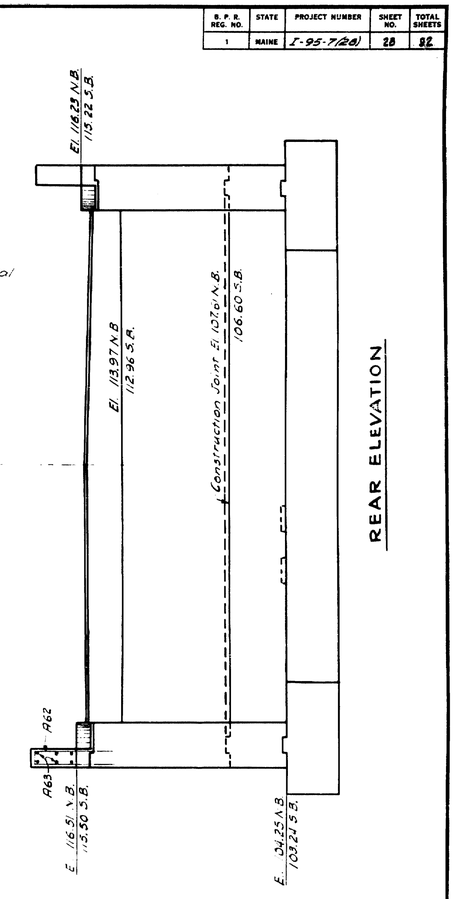
C. B. CO. NO 3798 18797

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(20)	28	92

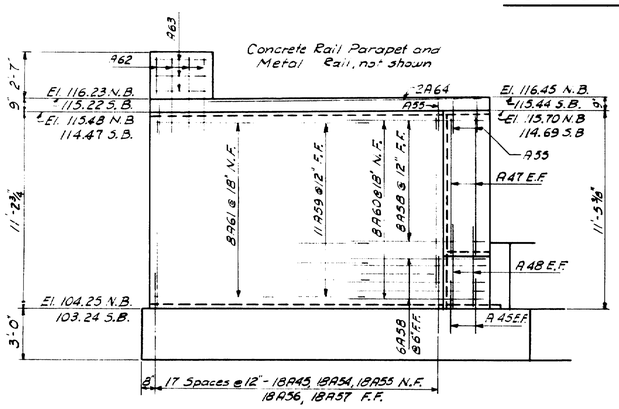




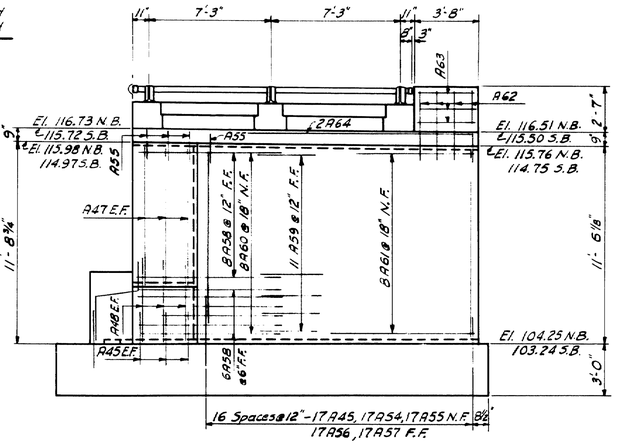


SECTION E-E

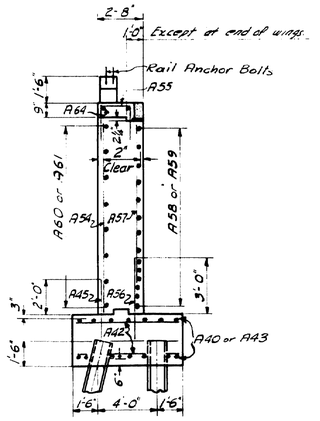
N.F.	= Near Face
F.F.	= Far Face
E.F.	= Each Face
N.B.	= Northbound
S.B.	= Southbound



NORTH WING ELEVATION



SOUTH WING ELEVATION



SECTION D-D

Abutments #2 N.B. and S.B. are identical except for elevations.

For General Notes see Abutment #1 sheet # 26
For Granite Bridge Curb Details see Sheet # 27

DESIGN- T. H. K.
TRACE- T. H. K.
CHECK- A.H.A. CDH

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

ABUTMENT 2 NB. & SB.

SHEET 28 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO. NO. 3788 68747

0 1 2 3 4 5 INCHES

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	29	32

PLAN

ELEVATION

PLAN AT TOP OF FOOTING

SECTION A-A

SHEAR KEY DETAIL
(VERTICAL CONSTRUCTION JOINT)

CLINTON A. CLAUSON MEMORIAL BRIDGES

KENNEBEC COUNTY

SCALE

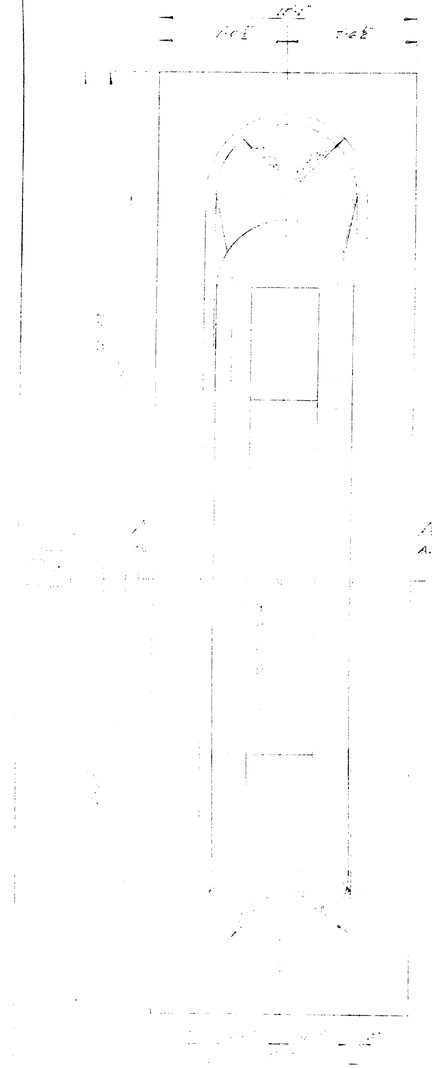
DESIGN AND DRAWING CONCRETE

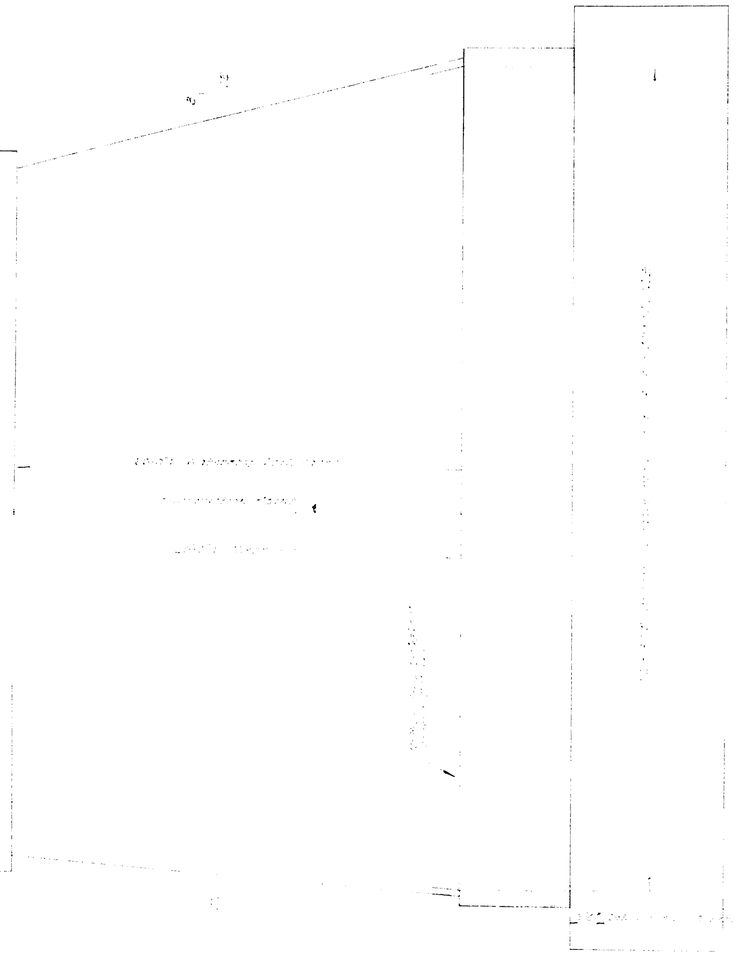
DATE

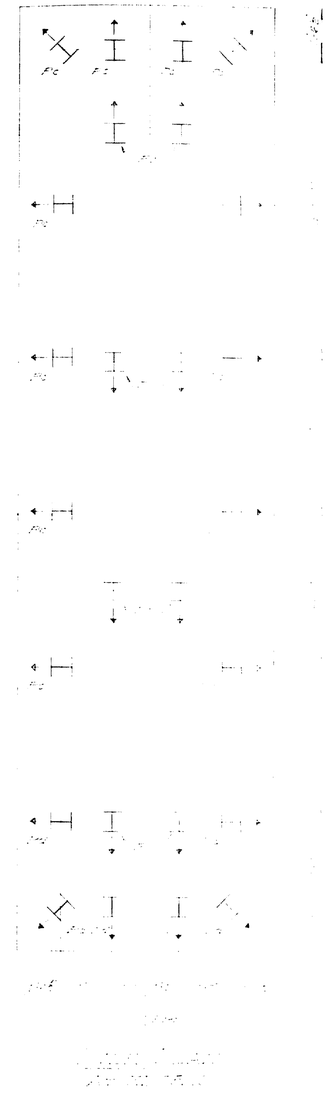
STATE HIGHWAY COMMISSION
AUGUSTA, MAINE — NOV. 1962

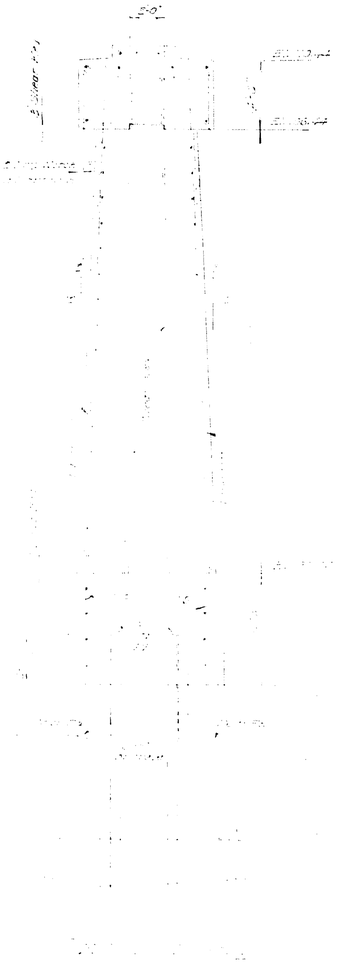
0 1 2 3 4 5 INCHES

B. P. R. Proj. No.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
	MAINE	I-95-7(28)	30	32





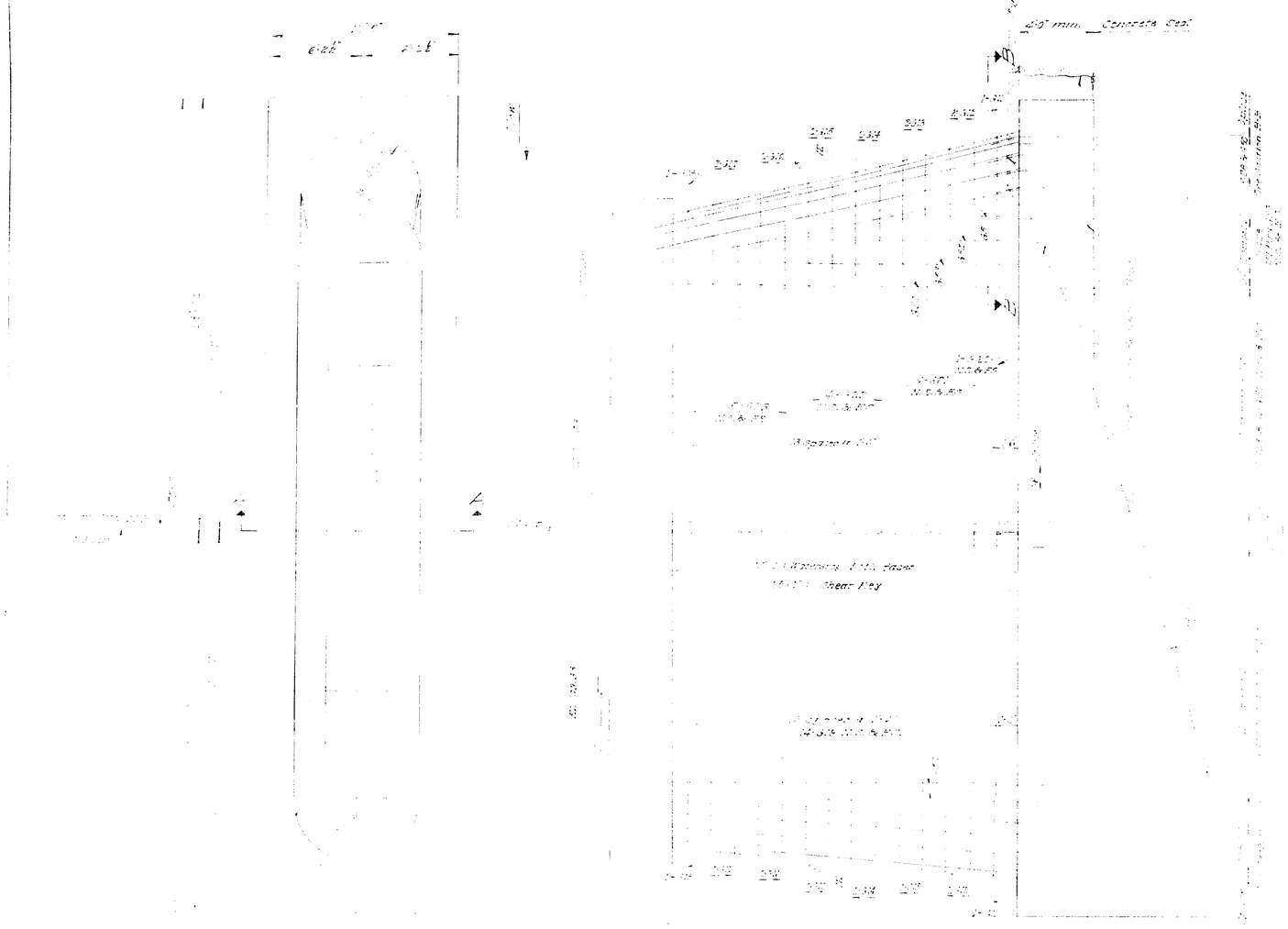


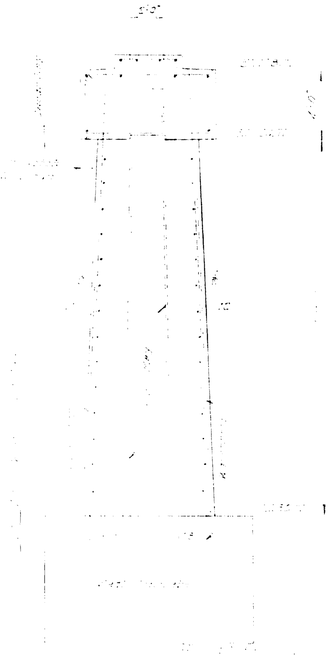


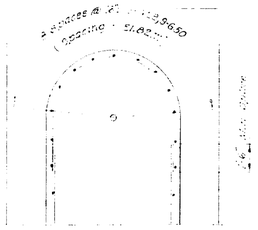
CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER
PENOBSCOT RIVER
AT BANGOR
PIER 2, NORTH BOUND
STATE OF MAINE AUGUSTA, MAINE NOV. 1960

0 1 2 3 4 5 INCHES

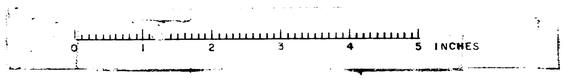
FED. AID PROJ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
	MAINE	I-95-1(28)	51	92







SECTION B-B
SECTION AT D.S. END THE SAME



CLINTON A. CLAUSON
MEMORIAL BRIDGES

FAIRFIELD AND BENTON
CONSTRUCTION AND MAINTENANCE
STATE HIGHWAY COMMISSION
AUGUSTA, MAINE NOV. 1962

CLINTON A. CLAUDON
MEMORIAL BRIDGE

AUGUSTA, MAINE NOV. 1962

98	52	[illegible]	MAINE	1
TOTAL SHEETS	SHEET NO.	PROJECT NUMBER	STATE	F.A. PROJ. NO.

B. P. R. REF. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-155-1(28)	33	92

NOTE

For remaining reinforcing not detailed, spacing, length, bar bending, refer to Bridge Bill of Bond Bar Details and General Pier Notes for Pier 5 N.B. Sheet 28

PILE DATA

DESIGN M.L.B.
DETAIL T.P.K.
CHECK T.P.K.

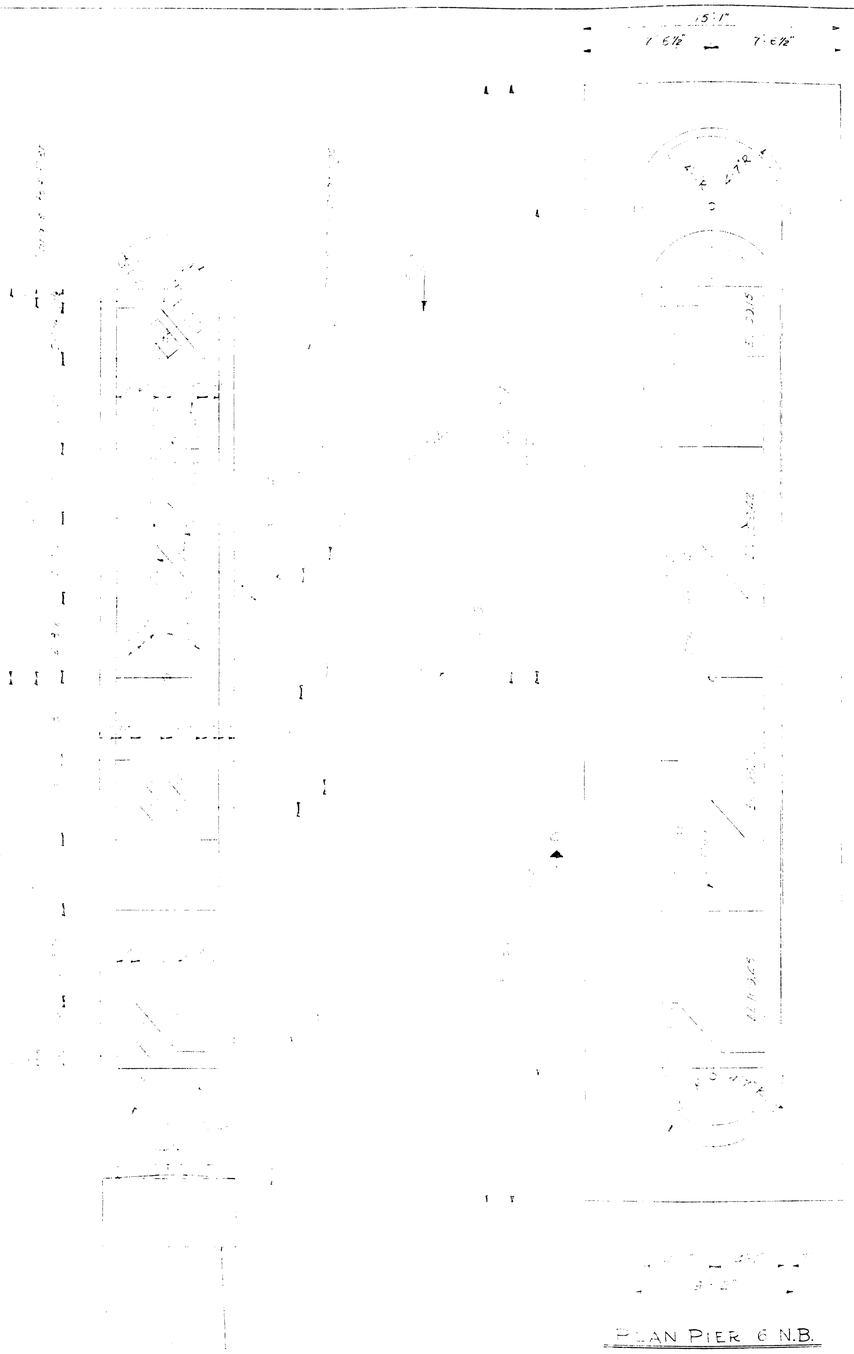
STATE HIGHWAY COMMISSION
ARDEN E. DAVISON

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
PIER 5 NORTH BOUND

SHEET 33 OF 92 AUGUSTA, MAINE NOV. 1962

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
MAINE	[illegible]	34	92



PLAN PIER 6 N.B.

PIER CAP DETAILS

0 1 2 3 4 5 INCHES

STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

CLINTON A. CLAUSON MEMORIAL BRIDGES

KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
PIER 6 NORTH BOUND

SHEET 34 OF 92 AUGUSTA, MAINE NOV. 1962

B.P.R. REG NO	STATE	FED AID PROJ. NO.	SHEET NO	TOTAL SHEETS
1	MAINE	I-95-7(28)	35	92

Note

For reinforcing steel not detailed this sheet, Waterstop Detail, Shear Key Detail (Vertical Construction Joint) and General Pier Note see Pier 1, N.B. sh. 29

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON
MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

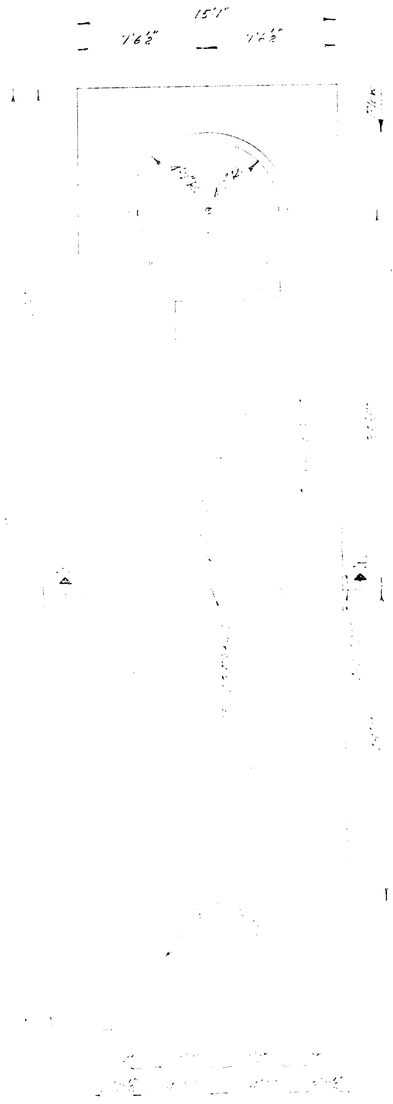
SOMERSET AND KENNEBEC COUNTIES

PIER 1, SOUTH BOUND

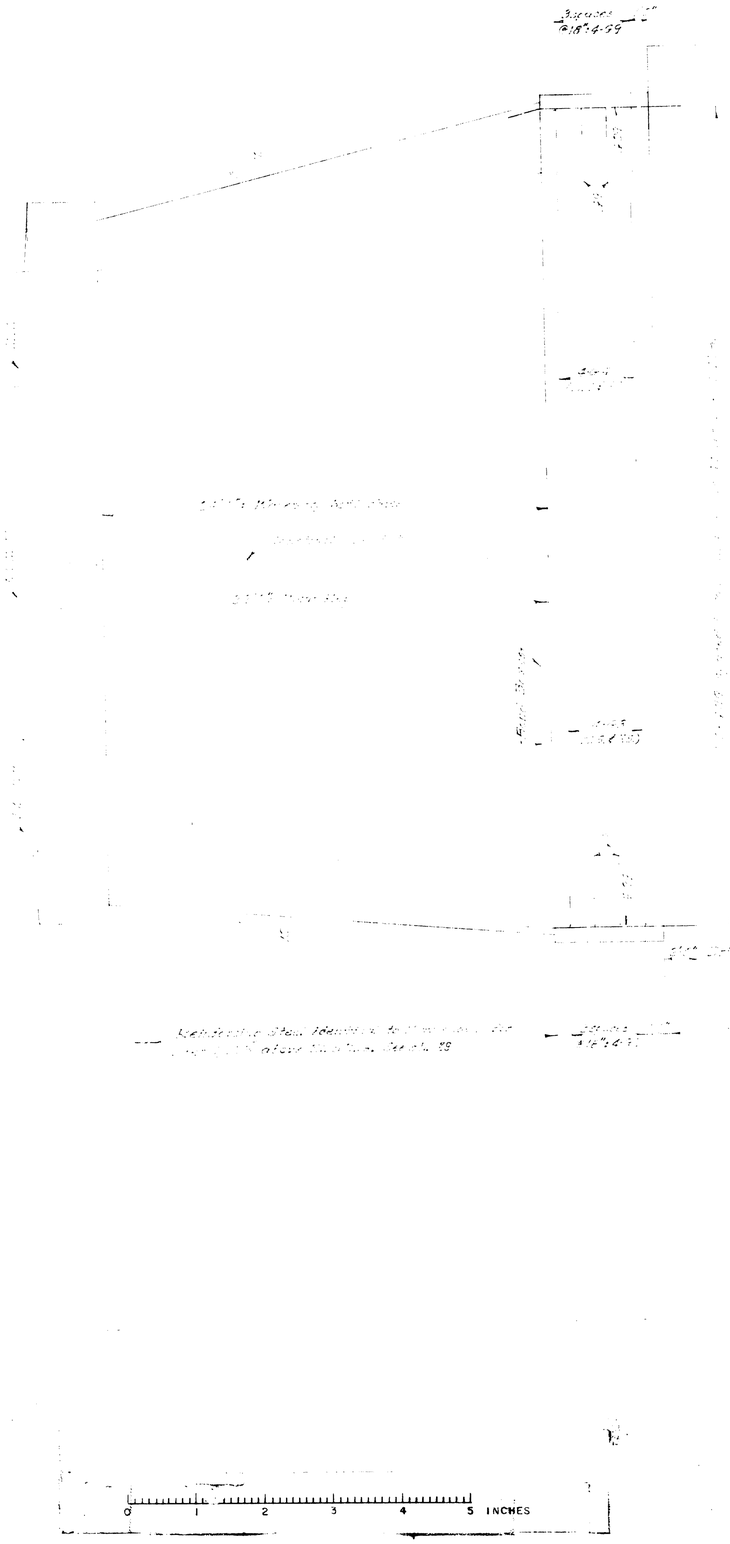
SHEET 35 OF 92 AUGUSTA, MAINE NOV. 1962

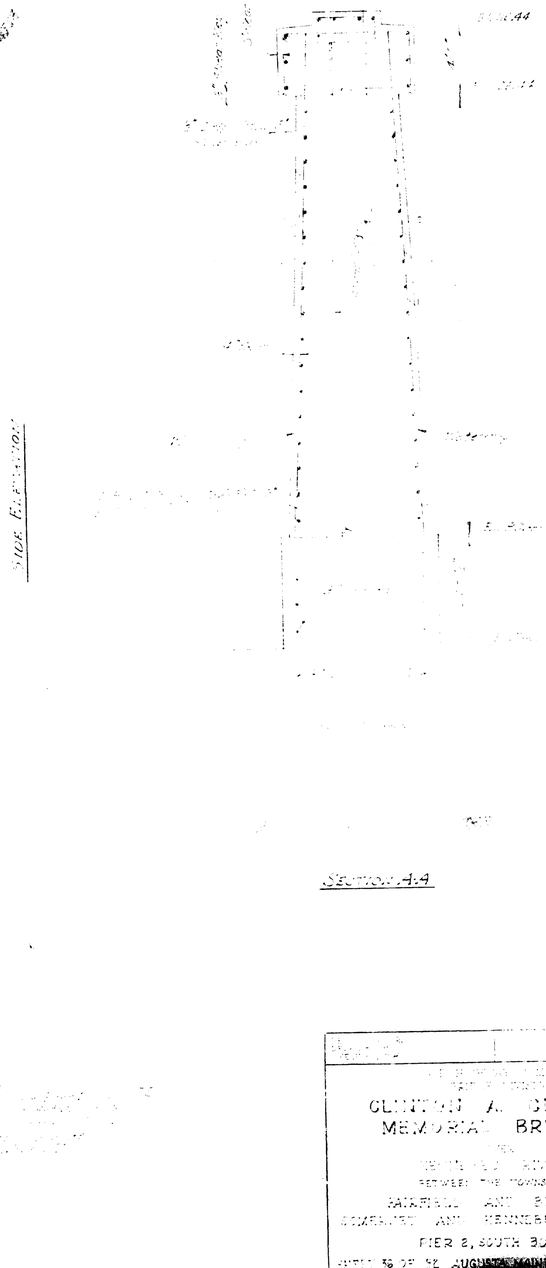
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(88)	36	92



PLAN - PIER 2, S.B.





SECTION A-A

NOTE

CLINTON A. CLAUSON MEMORIAL BRIDGES

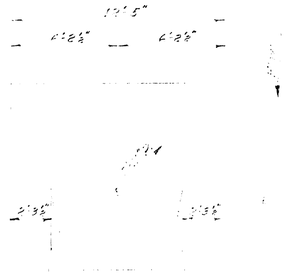
OVER THE RIVER BETWEEN THE TOWNS OF FAIRFIELD AND BENTON IN SOMERSET AND PENOBSCOT COUNTIES

PIER 2, SOUTH BOUND

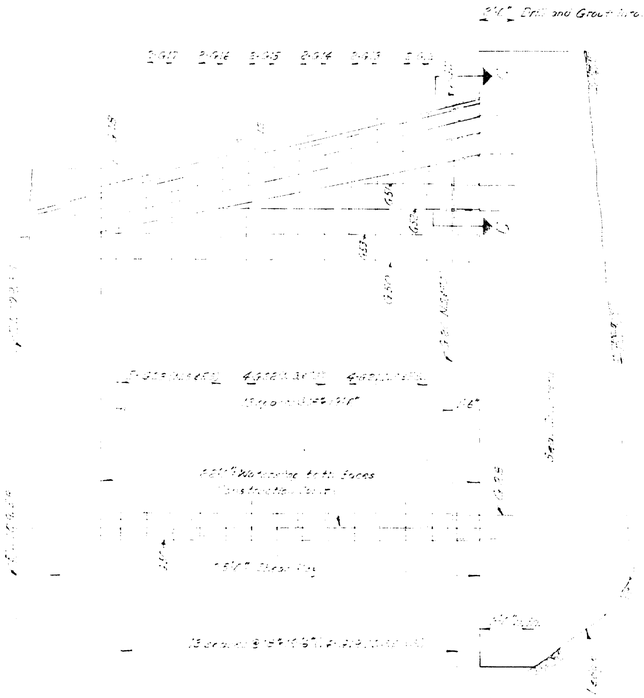
SHEET 36 OF 92 SHEETS AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

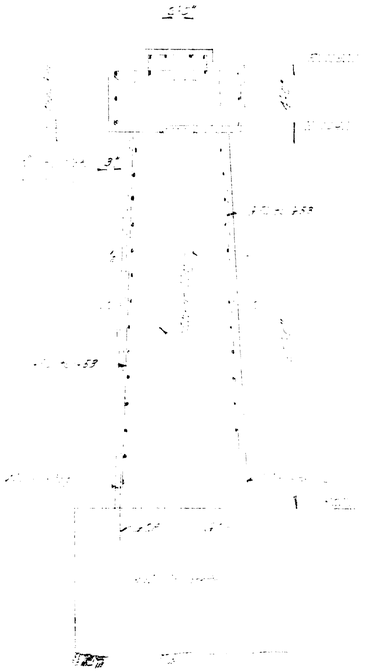
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	37	92



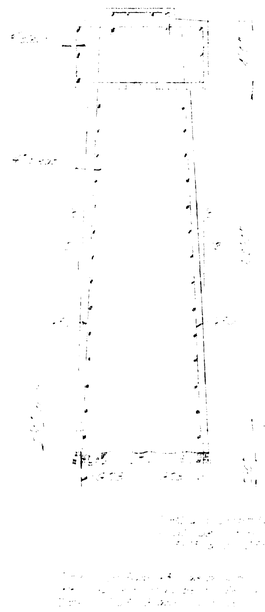
PLAN - PIER 3 & 4



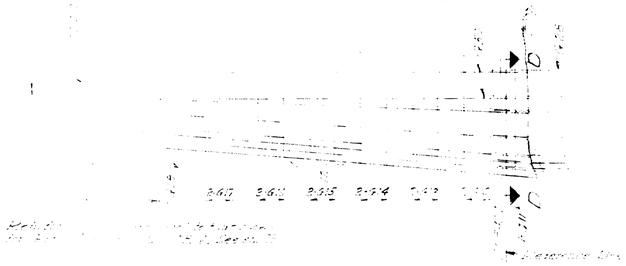
SIDE ELEVATION

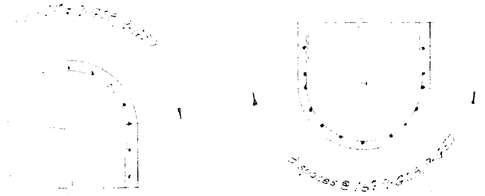


SECTION A-A



SECTION B-B





SECTION C-C

SECTION D-D

NOTE

CLINTON A. CLAUSON MEMORIAL BRIDGES

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON IN COUNTIES

PIERS SOUTH BOUND

DEPT. OF PW AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	58	92

13'-11"
6'-11½" 6'-11½"

PLAN - PIER 4 & 5

Existing steel H-piles to be cut off at elev. 28.50 ± (see sh. 59)

2½" Diameter grout hole
Rail Typical

NOTE

For reinforcing steel bar details & notes, reference is made to Sheet No. 59 of these Contract Plans. For Pier 4 & 5 Plan, see Sheet No. 55

SIDE ELEVATION

PILE PLAN
SCALE: 1/8" = 1'-0"

PILE DATA

Piles to be driven to ± 1 ft. to be cut off at elev. 28.50 ± (see sh. 59)

SECTION A-A

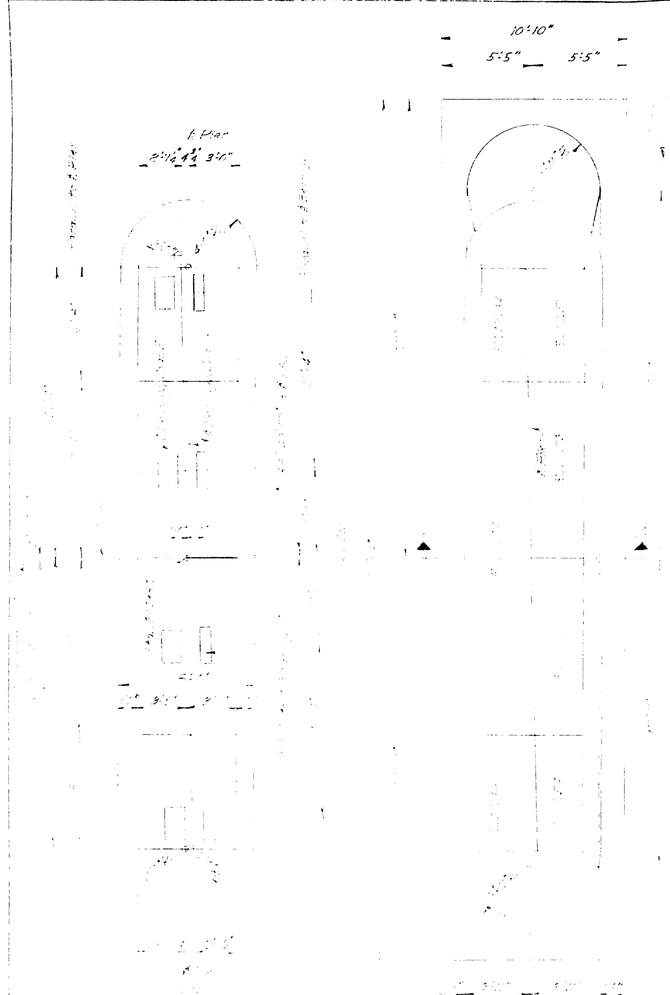
JOINTON A. CLAUSON MEMORIAL BRIDGES

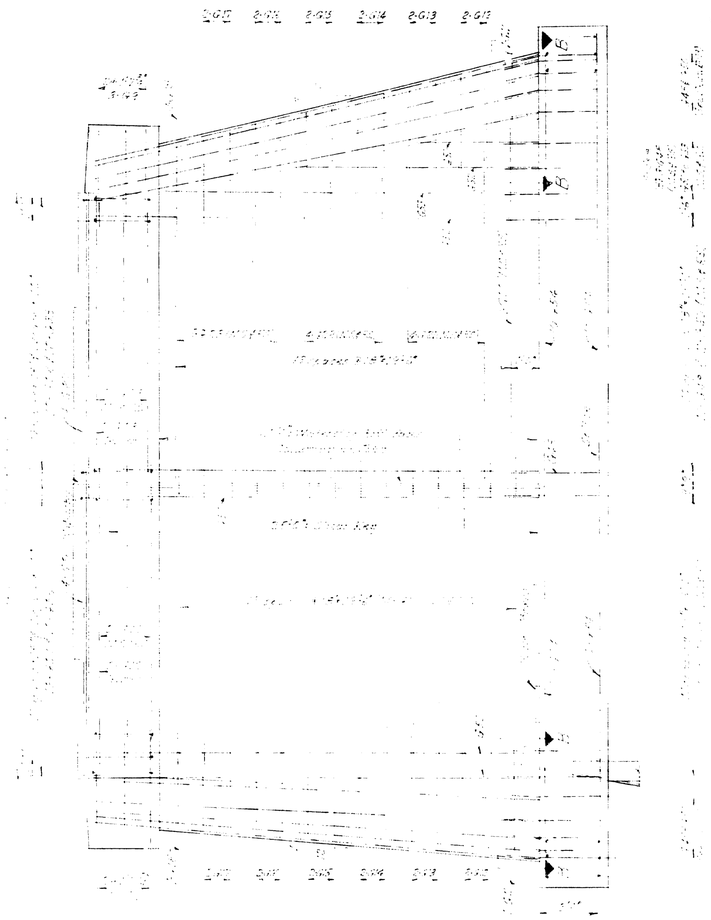
PIER 4, SOUTH BOUND

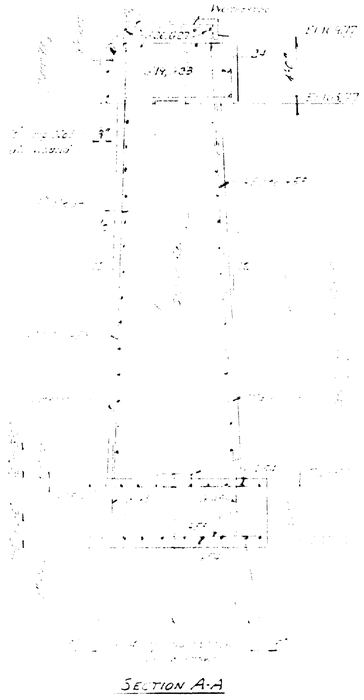
SHEET 58 OF 92 AUGUSTA, MAINE NOV. 1962

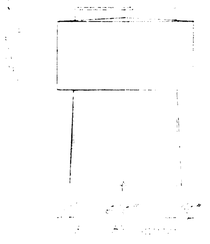
0 1 2 3 4 5 INCHES

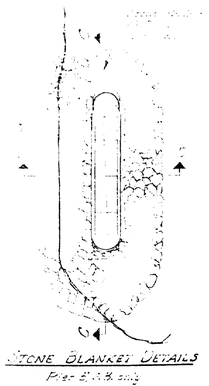
P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	S-45-7(28)	39	92

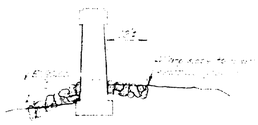












PILE DATA

NOTE

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

PIER 5, SOUTH BOUND

SHEET 39 OF 92 AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

B.P.C. REG. NO.	STATE	PROJECT NUMBER
1	MAINE	I 95-7(28)

PLAN PIERS "6 & "7 S.B.

SIDE ELEVATION

SECTION A-A

PIER CAP DETAILS

0 1 2 3 4 5 INCHES

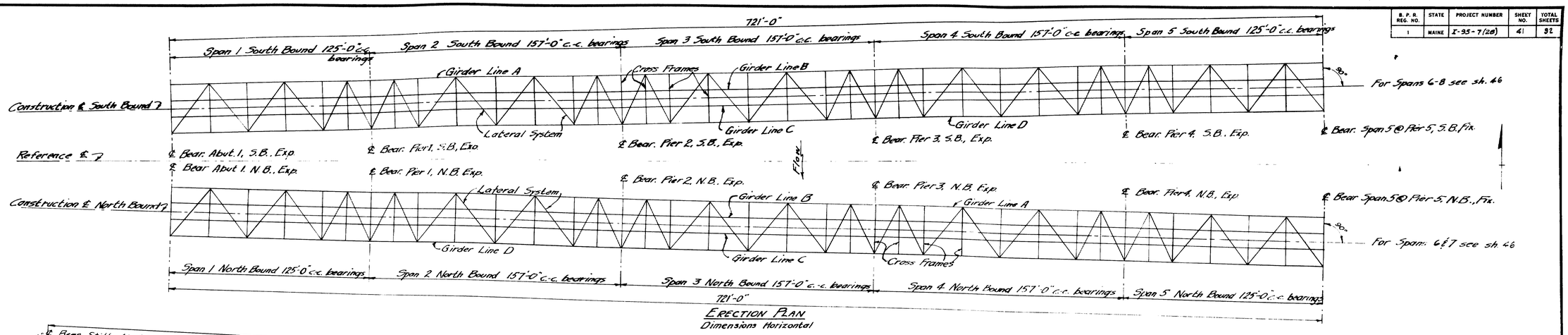
STATE HIGHWAY COMMISSION
BRIDGE SECTION

CLINTON A. CLAUSON MEMORIAL BRIDGES

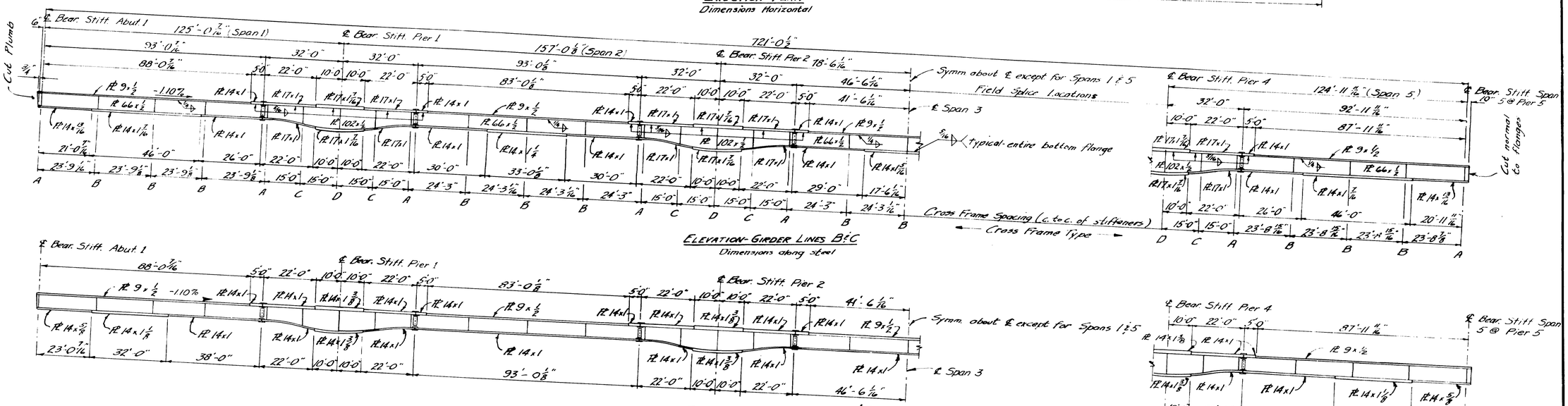
ON
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
PIERS 6 & 7 SOUTH BOUND

SHEET 43 OF 52 AUGUSTA, MAINE NOV. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	41	92

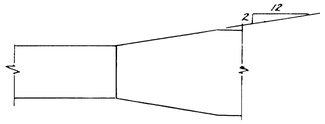


ERECTION PLAN
Dimensions Horizontal

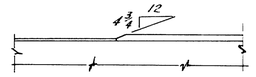


ELEVATION-GIRDER LINES B & C
Dimensions along steel

ELEVATION-GIRDER LINES A & D
Dimensions along steel
Dimensions and details not shown same as Girders B & C



FLANGE BUTT WELD @ WIDTH CHANGE



FLANGE BUTT WELD @ THICKNESS CHANGE

Note: "Single Vee Butt Weld" to be used when either plate is 1" or less in thickness. Structural Steel Fabricator to furnish details.

GIRDER FABRICATION NOTE
SPANS 1-5 N.B. & S.B.

Flanges are to be butt welded in accordance with detail this sheet and the specifications, and inspected in conformance with the specifications prior to being fillet welded to the web plates.

The Steel Fabricator at his option may fabricate the web plates with butt welds with the following limitations:

A maximum of two (2) transverse welds in the positive moment 66 x 1/2 web plates per girder per span.

A maximum of one (1) transverse weld each side of the ℄ of Bearing at a minimum distance of 12'-0" from the ℄ of Bearing, and one (1) longitudinal weld in the negative moment 102 x 1/2 web plates per girder per section between field splices.

If butt welds are used to fabricate the web plates they shall be made and inspected in conformance with the specifications before the web plates are fillet welded to the flange plates. The location and detail of butt welds in the webs shall be subject to approval by the Engineer.

Girders to be cambered in accordance with details shown on sheet 42.

Girders to be fitted with bearing and intermediate stiffeners. Details and locations shown on sheets 22 and 23.

Girders to be fitted with shear connectors. Details shown on sheet 42.

A.S.T.M. STEEL CLASSIFICATION

Girders & Bearing Stiffeners	A 441
Field Splice Plates	A 440 or A 441
High Strength Bolts	A 325
Pedestals	
Pins	A 235 Class C1 or A 108 Grade 1016 to 1030 inclusive
Rocker & Masonry Plates	A 36
All others	A 7 or A 36
Expansion Dams	A 441
All other	A 7 or A 36

SPECIFICATIONS

Design: The American Association of State Highway Officials Standard Specifications for Highway Bridges, 1961 with Interim Specifications 1961.
Fabrication & Erection: State of Maine, State Highway Commission, Standard Specifications, Highways and Bridges, Revision of January 1956 as modified by Contract Specifications.
Welding: Standard Specifications for Welded Highway and Railway Bridges, American Welding Society, 1956, as modified by Contract Specifications.

DESIGN

Loading: H20-S16-44 as modified for Interstate Highways.
Allowable Stresses: In accordance with Design Specifications.

ERECTION PLAN & GIRDER ELEVATIONS

DESIGN- MCR
TRACE- PLA
CHECK- AHR

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

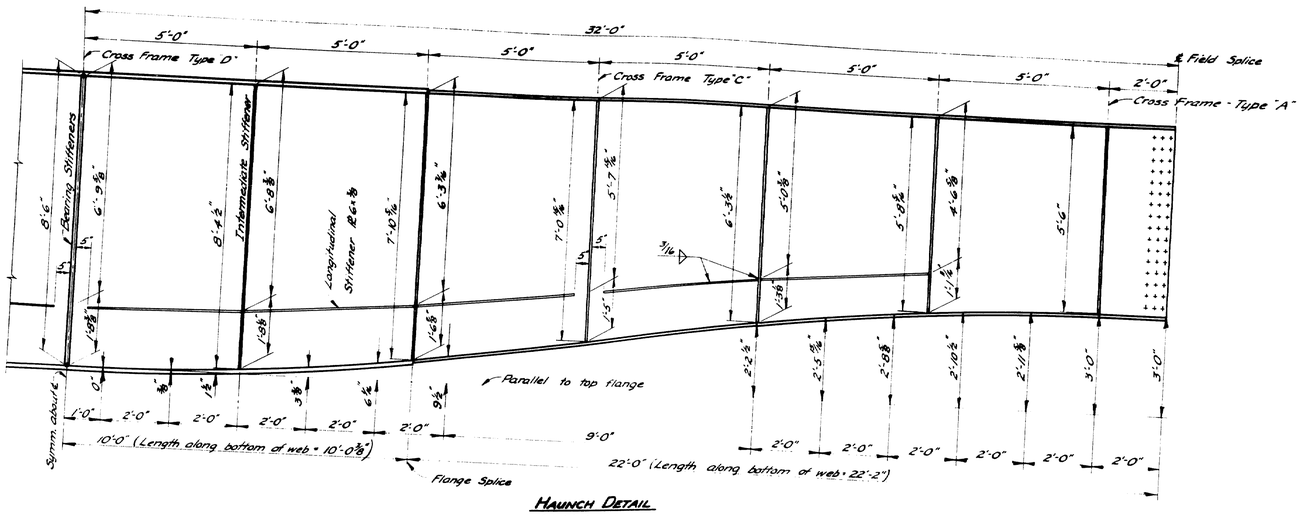
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
STEEL DETAILS SPANS 1-5 NB & SB

SHEET 41 OF 92 AUGUSTA, MAINE N.O.V. 1962

C. B. CO., NO. 3788 58749

0 1 2 3 4 5 INCHES

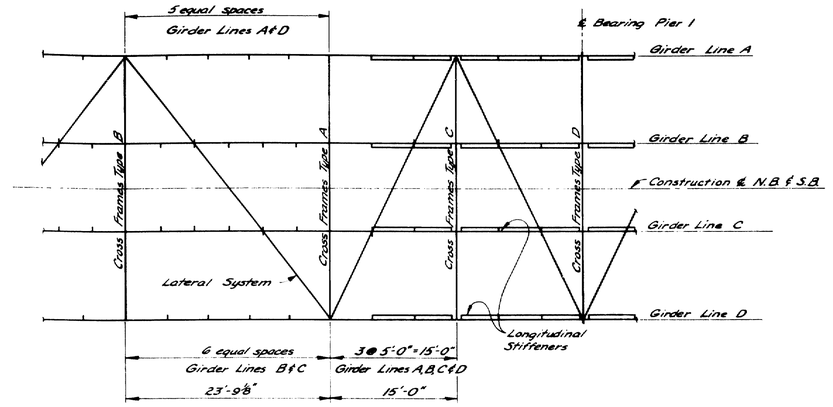
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	42	92



HAUNCH DETAIL

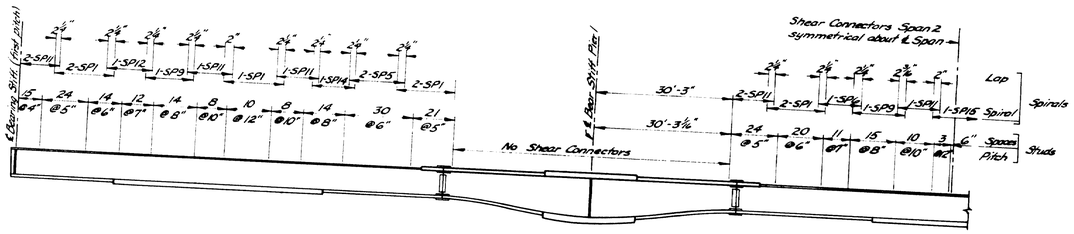
All Girder Lines

Note: Lateral gusset plates not shown. See sh's. 43 & 44.
For side of Girders on which intermediate & longitudinal stiffener plates are to be placed see Stiffener Location this sheet.



STIFFENER LOCATION

Note: All dimensions along steel (on -1.10% grade).
All intermediate stiffeners to be ℞ 6 x ⅜.
All stiffeners to be normal to top flange.
All bearing stiffeners to be in pairs.
All intermediate stiffeners to be one side of Web ℞ only except at cross frames and lateral system connections for Girder Lines B & C.
For stiffener and cross frame details see sh. 43.
For lateral system detail see sh. 44.
Intermediate stiffener spacing shown for 23'-9⅜" panel typical for all others except 15'-0" panels.

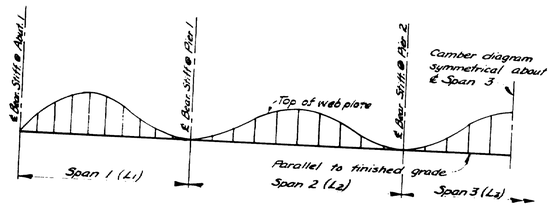


SPAN 1

Rotate 180° for Span 5

SPAN 2

Spans 3 & 4 identical

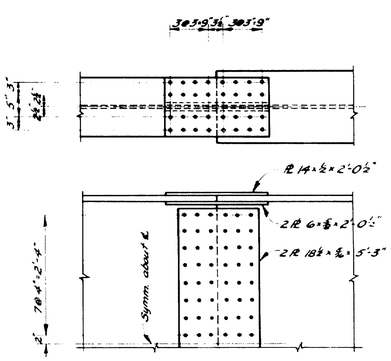


CAMBER DIAGRAM

All Girder Lines

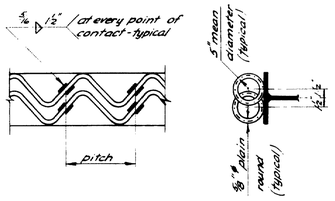
Span	Point	Camber
℄ Bear. Stiff.	0	0
1	.1L1	1"
	.2L1	1 7/16"
	.3L1	2 ¼"
	.4L1	2 ⅜"
	.5L1	2 ¼"
	.6L1	1 7/16"
	.7L1	1⅛"
	.8L1	9/16"
	.9L1	3/16"
℄ Bear. Stiff.	0	0
2	.1L2	4"
	.2L2	2 25/32"
	.3L2	1 ⅜"
	.4L2	1 1/16"
	.5L2	2 ⅜"
	.6L2	1 7/16"
	.7L2	1 1/16"
	.8L2	25/32"
	.9L2	¼"
℄ Bear. Stiff.	0	0
3	.1L3	¼"
	.2L3	25/32"
	.3L3	1 1/16"
	.4L3	2 1/16"
	.5L3	2 9/16"

Note: Camber ordinate at each Field Splice equals 1/16".



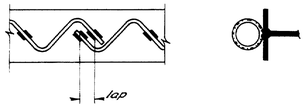
TYPICAL GIRDER FIELD SPLICE

⅞" ℗ H.S. Bolts; 15/16" ℗ holes



DOUBLE SPIRALS

Indicated by "2" in layout



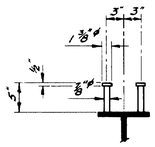
SINGLE SPIRALS

Indicated by "1" in layout

SHEAR CONNECTOR LAYOUT

All Girder Lines

SPIRAL TABLE				
Spiral	Number	Spaces	Pitch	Length
SP1	176	20	7"	11'-8"
SP5	32	16	8"	10'-8"
SP6	48	24	4"	8'-0"
SP9	64	24	5"	10'-0"
SP11	208	16	6"	8'-0"
SP12	16	25	4"	8'-4"
SP14	16	20	5"	8'-4"
SP15	24	12	7"	7'-0"



STUD DETAIL

2 studs @ each pitch
13,536 Required
Note: Pitch and transverse spacing may be revised slightly at girder field splices to clear H.S. Bolts.

SHEAR CONNECTOR DETAILS

Note: See Sh. 50 for "Shear Connector Note" and Shear Connectors for Spans 6 & 7 N.B. and 6, 7 & 8 S.B.

HAUNCH DETAIL, STIFFENER LOCATION, SHEAR CONNECTORS, CAMBER DIAGRAM, GIRDER FIELD SPLICE

DESIGN—M.C.R.	BRIDGE NO.
TRACE—J.W.M.	SURVEY—
CHECK—A.H.P.	PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

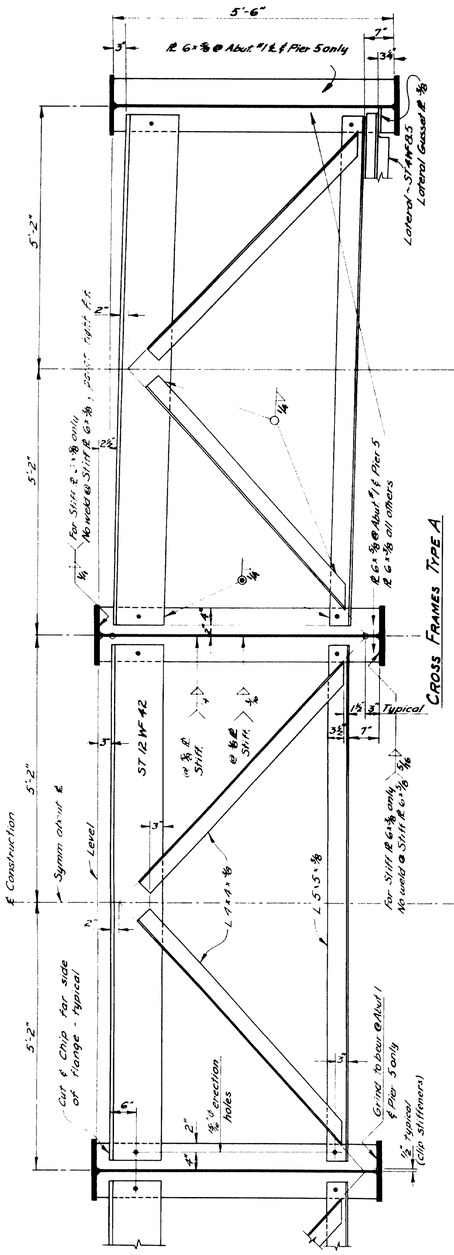
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

STEEL DETAILS SPANS 1-5 NB & SB

SHEET 42 OF 92 AUGUST [redacted] 1962

C. B. CO., NO. 3788

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	43	92



Note: Exterior Girder Stiffeners shall have the same welds as the Interior Girder Stiffeners.

CROSS FRAMES

DESIGN- M.C.R.	BRIDGE NO.
TRACE- J.W.M.	SURVEY-
CHECK- A.H.R	PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

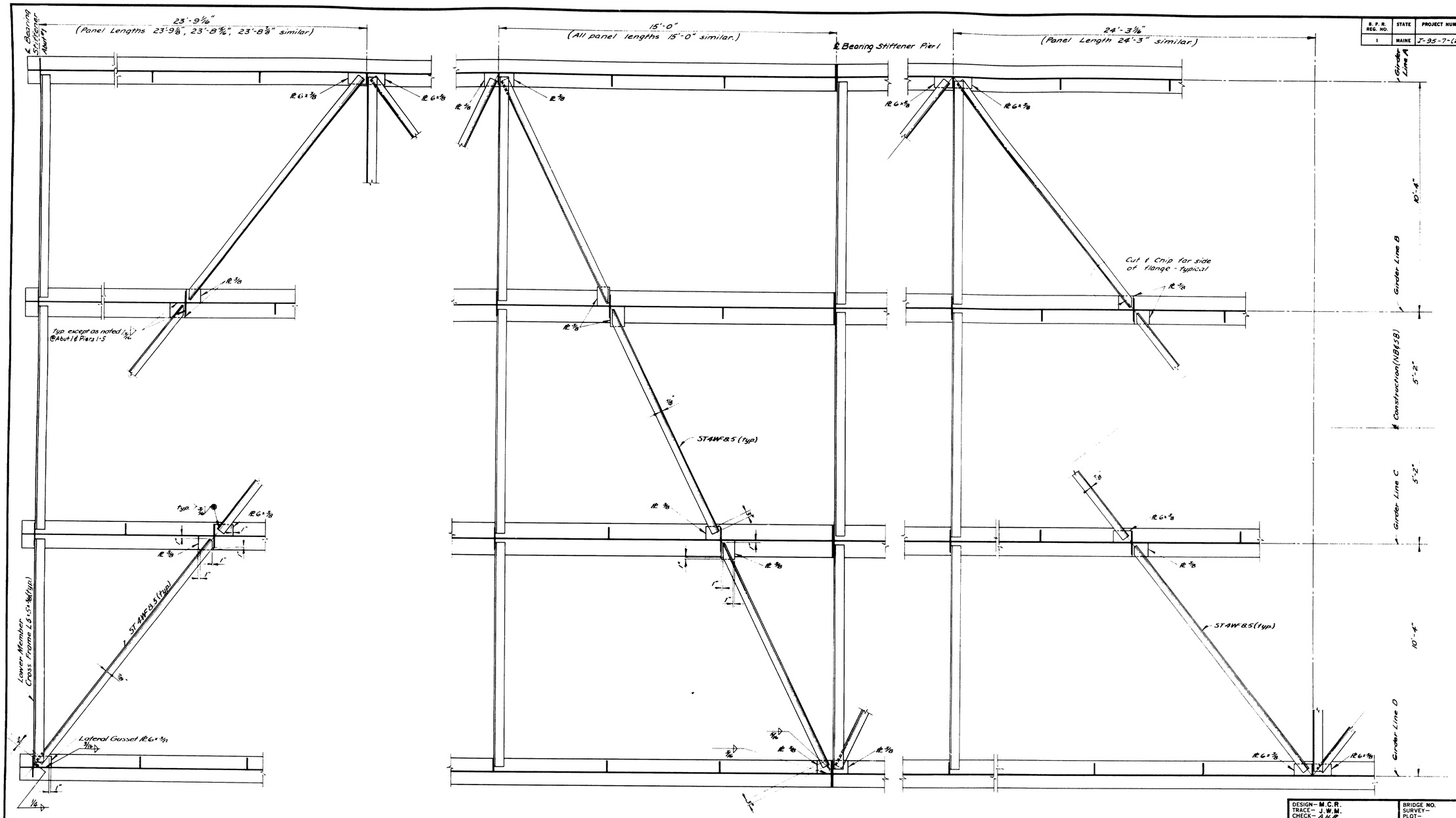
STEEL DETAILS SPANS 1-5 NB & SB

SHEET 43 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO 3788 25767

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-95-7-(28)	44	92



LATERAL SYSTEM DETAILS

Dimensions along steel (on -1.10% grade)

0 1 2 3 4 5 INCHES

C. B. CO. NO 3788 28147

DESIGN– M.C.R. TRACE– J.W.M. CHECK– A.H.P.	BRIDGE NO. SURVEY– PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

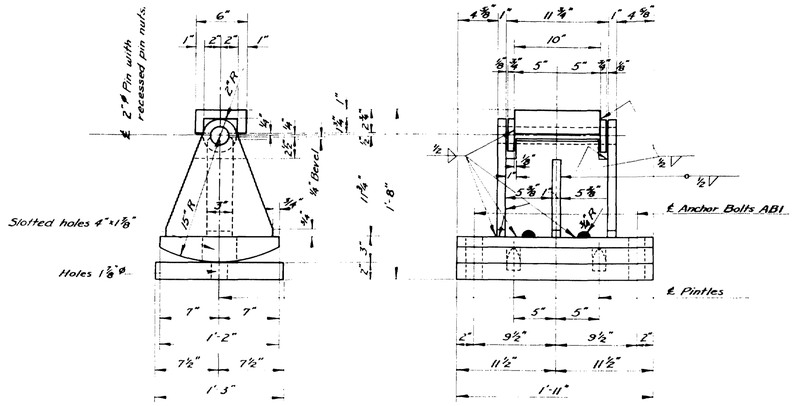
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

STEEL DETAILS SPANS 1-5 NB & SB

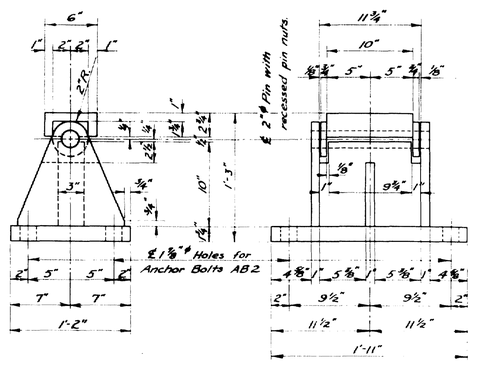
SHEET 44 OF 92 AUGUSTA, MAINE, NOV., 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	45	92



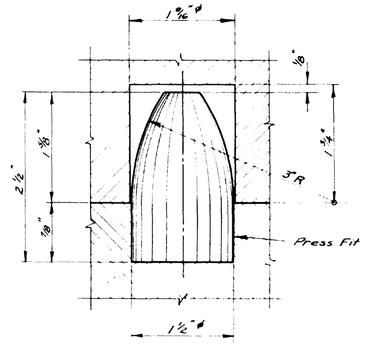
EXPANSION PEDESTAL-ABUTMENT / N.B. & S.B.

8 Required
Welding typical

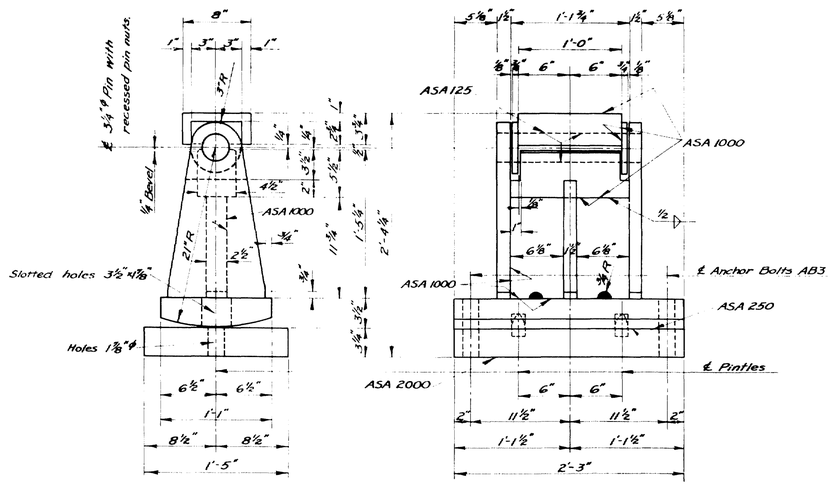


FIXED PEDESTAL PIER 5, SPAN 5 N.B. & S.B.

8 Required

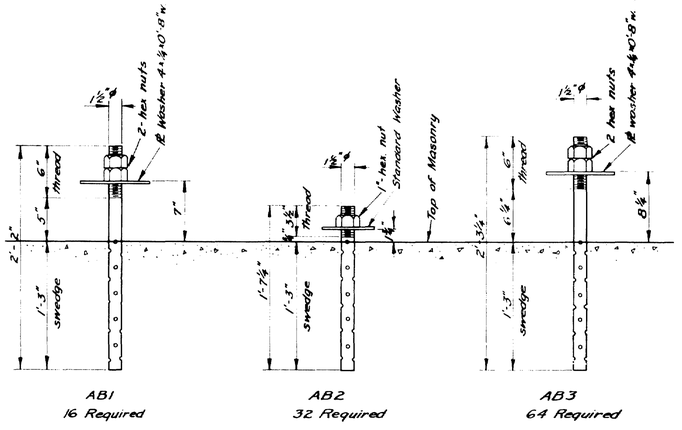


PINTLE DETAIL



EXPANSION PEDESTAL - PIERS 1,2,3 & 4; N.B. & S.B.

32 Required
ASA finish typical

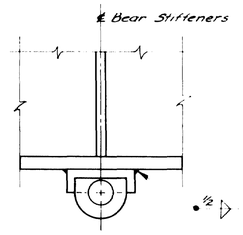


AB1
16 Required

AB2
32 Required

AB3
64 Required

ANCHOR BOLTS



TYPICAL WELDING DETAIL

Sole ℄ to Girder

Note: Set Rockers plumb at 45° F.

PEDESTAL DETAILS

DESIGN – M.C.R. TRACE – J.W.M. CHECK – A.H.P.	BRIDGE NO. SURVEY – PLOT –

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

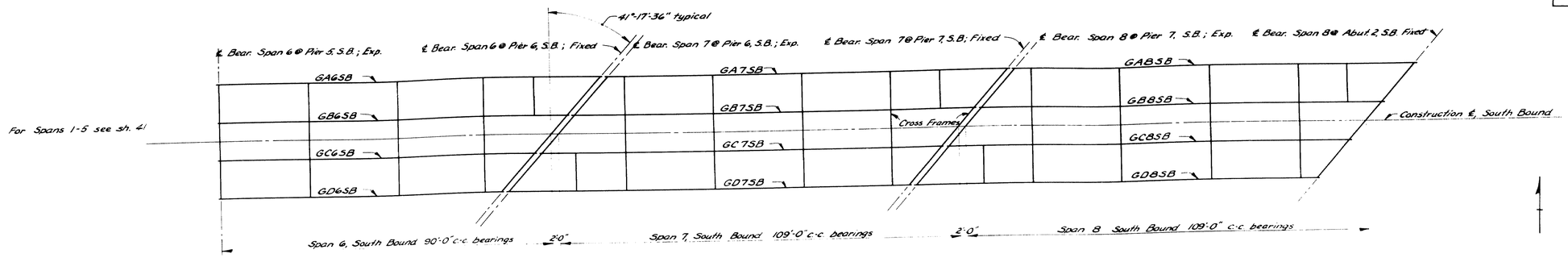
STEEL DETAILS SPANS 1-5 NB & SB

SHEET 45 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO. 3788 45797

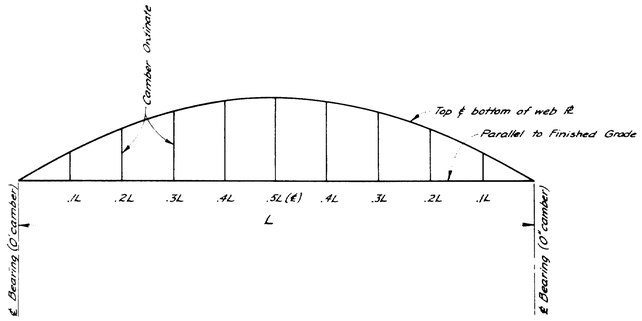
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	SH
1	MAINE	I-95-7(28)	46	92



ERECTION PLAN

Dimensions horizontal.
For location and type of cross frames see sh. 48



Girder	Camber Ordinate @ .1L	.2L	.3L	.4L	.5L	Max. Camber Tolerance @ .5L
GA6SB	1"	1 1/8"	2 3/16"	3"	3 3/8"	± 3/8"
GB6SB	13/16"	1 9/16"	2 1/8"	2 1/2"	2 5/8"	± 5/16"
GC6SB	5/8"	1 3/16"	1 5/8"	1 7/8"	2"	± 5/16"
GD6SB	7/16"	3/4"	1 1/16"	1 1/4"	1 5/16"	± 1/4"
GA6NB	1 5/8"	2 3/8"	3 3/8"	4 1/2"	4 11/16"	± 7/16"
GB6NB	1 5/16"	2 1/2"	3 5/16"	3 7/8"	4"	± 3/8"
GC6NB	1 1/16"	1 15/16"	2 5/8"	3 1/16"	3 3/16"	± 3/8"
GD6NB	13/16"	1 9/16"	2 1/8"	2 7/16"	2 5/16"	± 5/16"
* 109'(all)	1 3/16"	2 1/8"	2 7/8"	3 3/8"	3 1/2"	± 3/8"

* GA,B,C,D 7SB; GA,B,C,D8 SB; GA,B,C,D 7NB (12 Girders for Spans 7 & 8 South Bound and Span 7 North Bound)

CAMBER DIAGRAM

Note: For loading, specifications, unit stresses, and steel classifications, see sh. 41.

ERECTION PLAN & CAMBER DIAGRAM

DESIGN- M.C.R.
TRACE- J.W.M.
CHECK- J.F.H.
BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

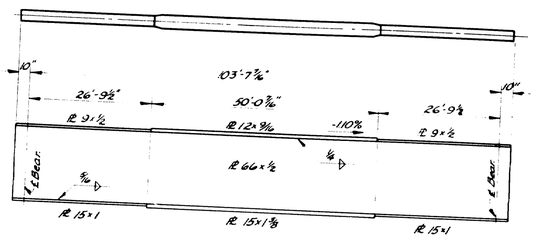
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

STEEL DETAILS SPANS 6&7 NB AND 6,7,&8 SB

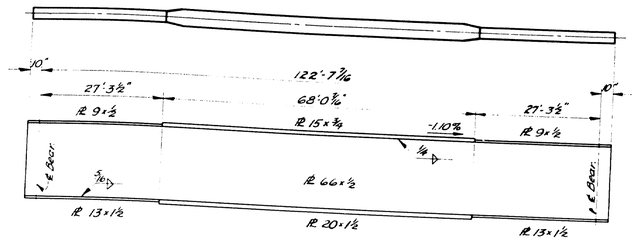
SHEET 46 OF 92 AUGUSTA, MAINE NOV. 1962

C. S. CO., NO 3788 33787

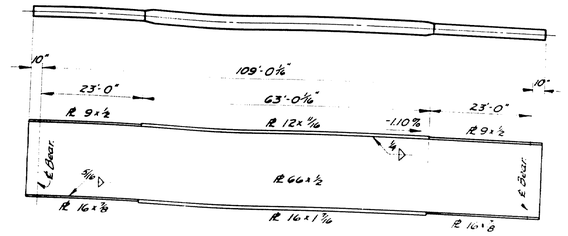
B. P. R. REG. NO.	STATE	PROJECT NUM.
1	MAINE	I-95-7(28)



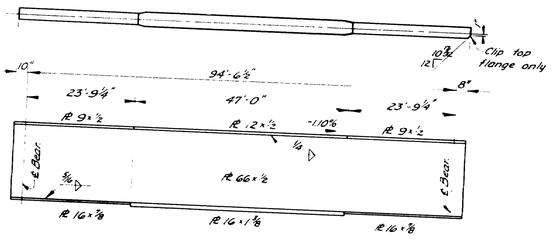
GA6SB



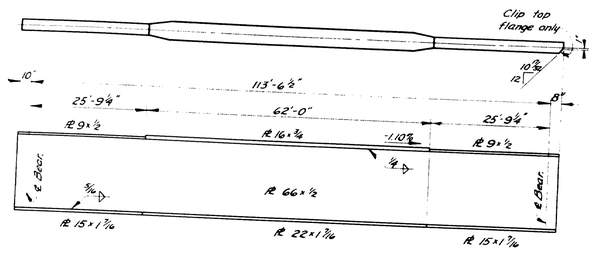
GA6NB



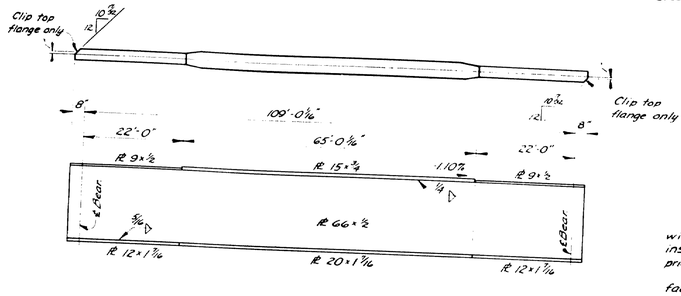
GA, D7SB
2 Required



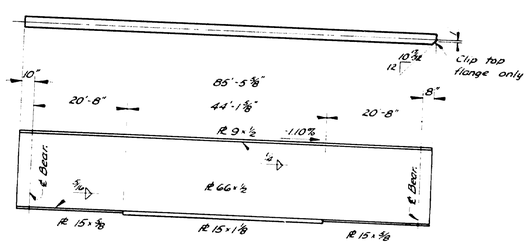
GB6SB



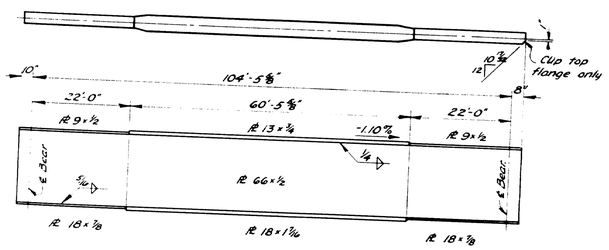
GB6NB



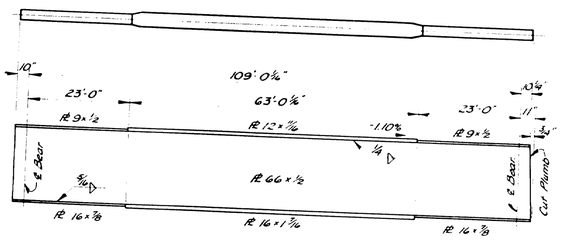
GB, C7SB
2 Required



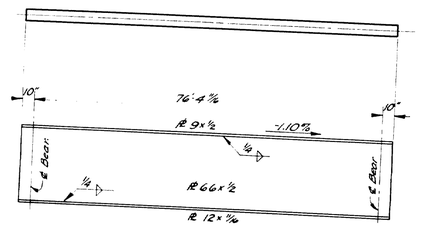
GC6SB



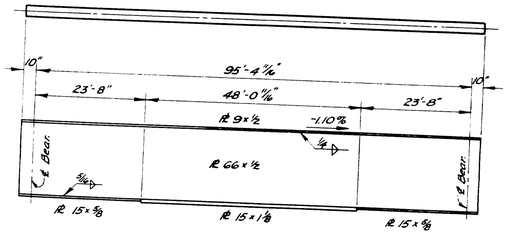
GC6NB



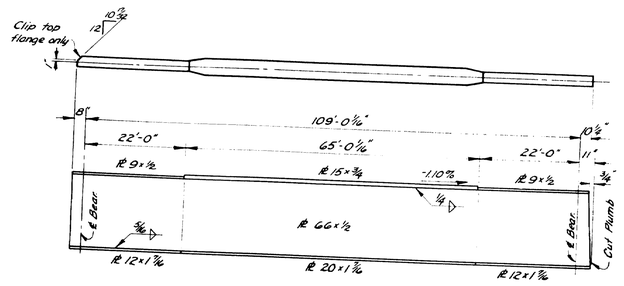
GA, D8SB; GA, D7NB
4 Required



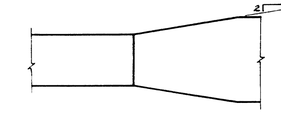
GD6SB



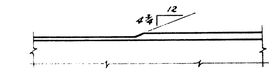
GD6NB



GB, C8SB; GBC7NB
4 Required



FLANGE BUTT WELD @ WIDTH CHANGE



FLANGE BUTT WELD @ THICKNESS CHANGE

Note: "Single Vee Butt Weld" to be used when either plate is 1" or less in thickness. "Double Vee Butt Weld" to be used when both plates are over 1" in thickness. Structural Steel Fabricator to furnish details.

GIRDER FABRICATION NOTE
SPANS 6&7NB AND 6,7&8SB

Flanges are to be butt welded in accordance with above details and the specifications and inspected in conformance with the specifications prior to being fillet welded to the web plates.

The Steel Fabricator at his option may fabricate the webs for each girder from a maximum of three plates by the use of transverse butt welds. If butt welds are used they shall be made and inspected in conformance with the specifications before the web plates are fillet welded to the flange plates. The location and detail of butt welds in the webs shall be subject to approval of the Engineer.

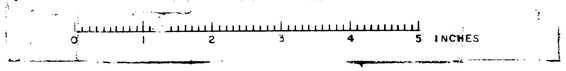
Girder dimensions are along steel.

Girders to be cambered in accordance with details shown on sheet 46 .

The ends of girders shall be cut normal to flanges unless otherwise detailed

Girders to be fitted with bearing and intermediate stiffeners. Details and locations shown on sheets 48 and 49 .

Girders to be fitted with shear connectors Details shown on sheet 50.



GIRDER DETAILS

DESIGN-M.C.R. TRACE-J.W.M. CHECK-T.A.K.	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

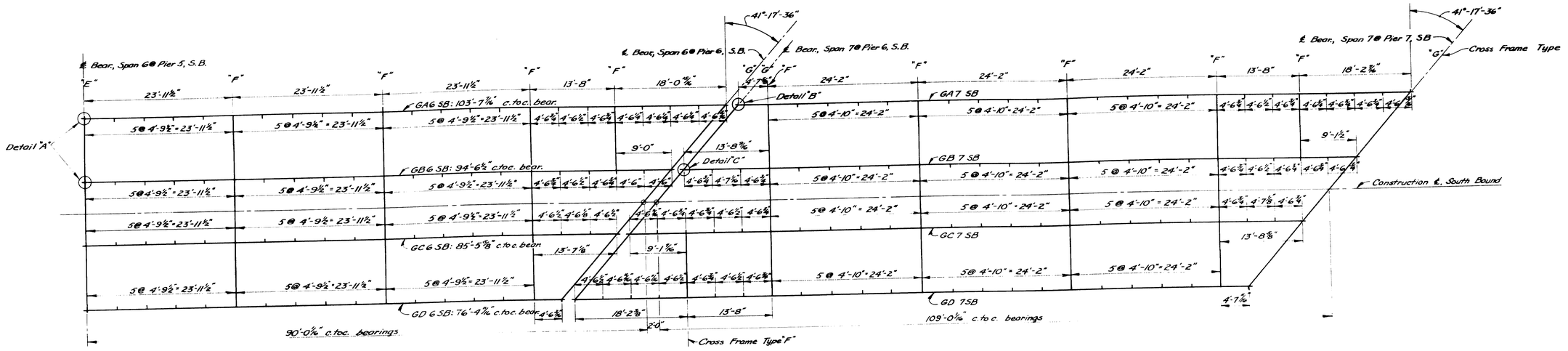
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

STEEL DETAILS SPANS 6&7 NB AND 6,7&8SB

SHEET 47 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO. 3766 28767

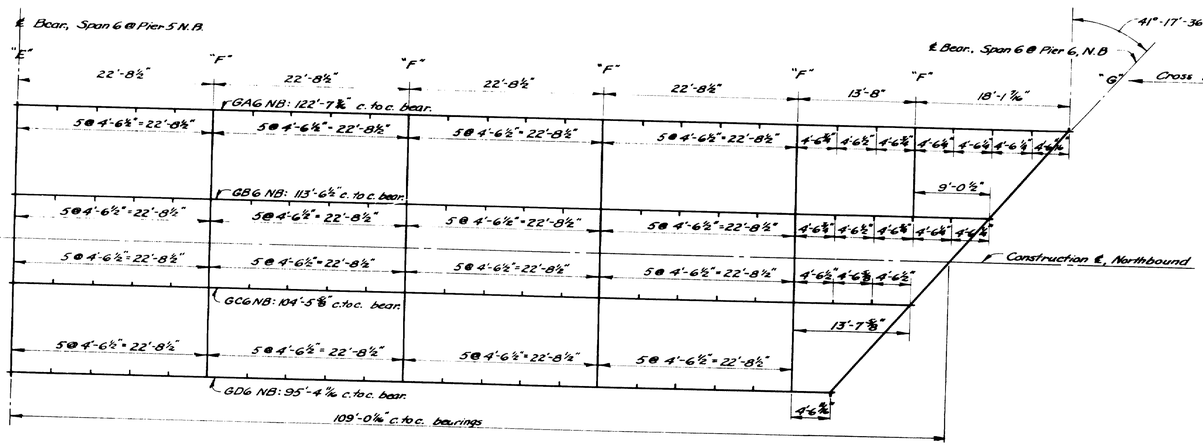
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I- 95- 7(28)	48	92



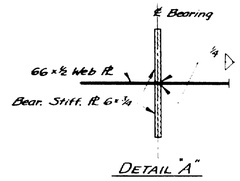
SPAN 6, SOUTH BOUND

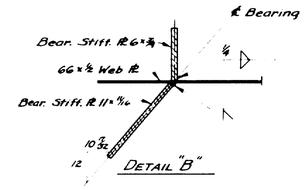
SPAN 7, SOUTH BOUND

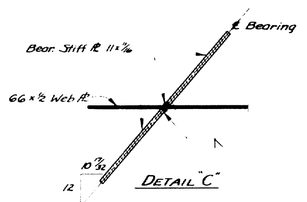
Note: Skew to ℄ Bearings, stiffener spacing and cross frame location and type identical for Span 8, South Bound and Span 7, North Bound.



SPAN 6, NORTH BOUND







BEARING STIFFENERS - WEB Pl. CONNECTION DETAILS

Note: See sh. 49 for additional details

CROSS FRAME & STIFFENER LOCATION

Note: All intermediate stiffeners to be Pl. 6 x ⅜
All dimensions along steel (i.e. on -1.10% grade)
All stiffeners to be normal to flanges.
All intermediate stiffeners to be on one side of web Pl. only except at cross frames for interior girders.
For intermediate stiffener and cross frame details see sh. 49.

STIFFENER & CROSS FRAME LOCATIONS

DESIGN- M.C.R. TRACE- J.W.M. CHECK- T.H.K.	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

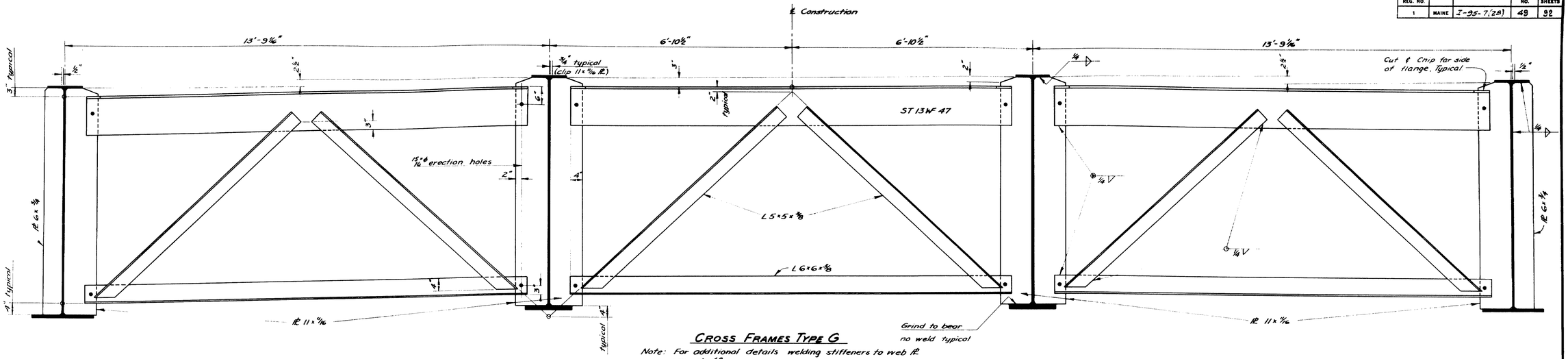
STEEL DETAILS; SPANS 6 & 7 NB AND 6, 7 & 8 SB

SHEET 48 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO. 3788 58767

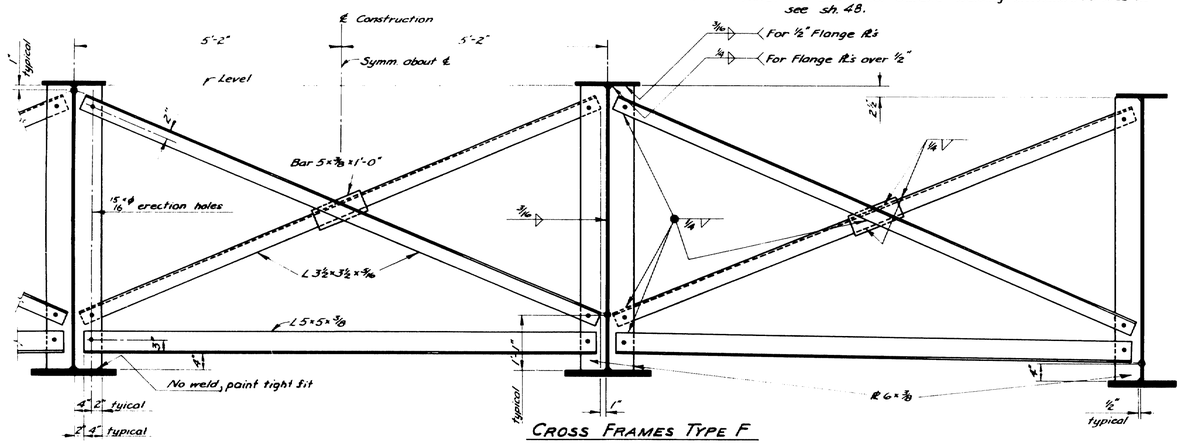
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	49	92



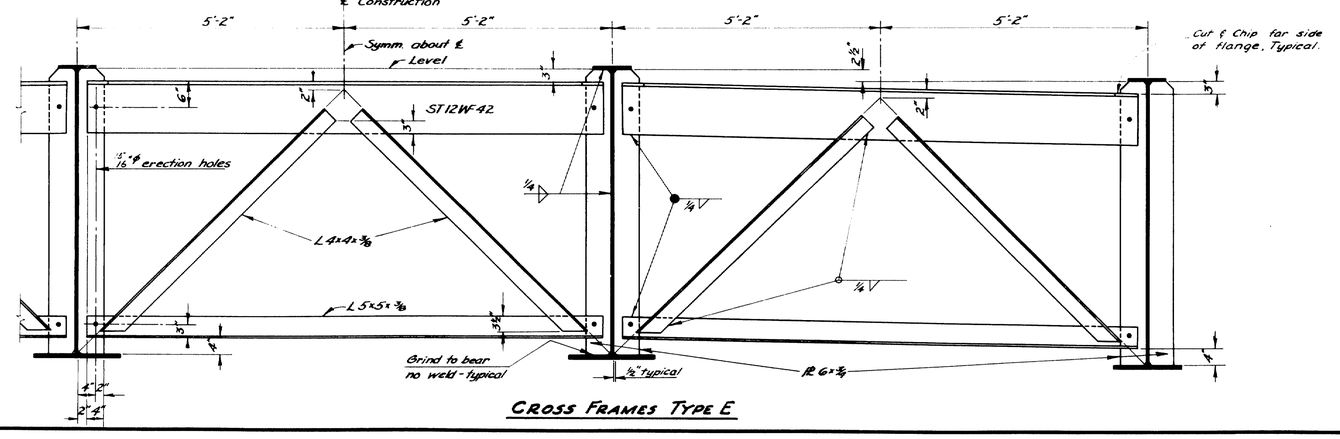
CROSS FRAMES TYPE G

Note: For additional details welding stiffeners to web PL see sh. 48.



CROSS FRAMES TYPE F

Note: Welding stiffeners to girders is typical for intermediate stiffeners.



CROSS FRAMES TYPE E

CROSS FRAMES

DESIGN – M.C.R. TRACE – J.W.M. CHECK – T. H. K.	BRIDGE NO. SURVEY – PLOT –

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

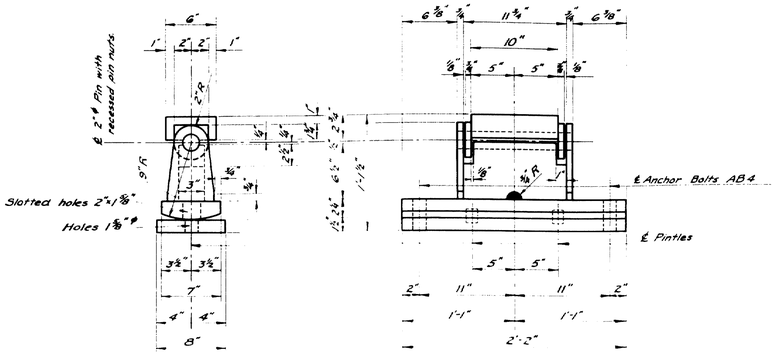
STEEL DETAILS; SPANS 6 & 7 NB AND 6, 7 & 8 SB

SHEET 49 OF 92 AUGUSTA, MAINE NOV. 1962

C. B. CO., NO 37915 29767

0 1 2 3 4 5 INCHES

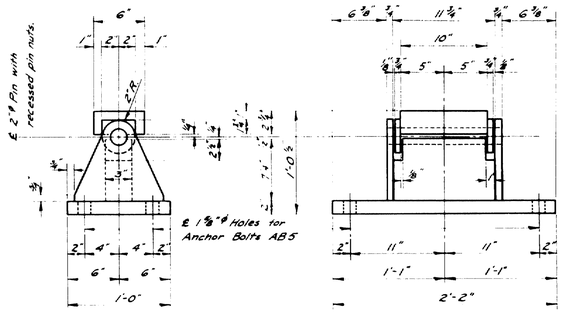
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-95-7(28)	50	92



EXPANSION PEDESTAL

20 Required
4 each required @ Pier 5, Span 6 N.B.
Pier 6, Span 7 N.B.
Pier 5, Span 6 S.B.
Pier 6, Span 7 S.B.
Pier 7, Span 8 S.B.

Note: For pedestal welding and ASA finishes see sh. 45.

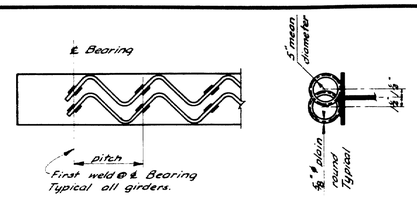


FIXED PEDESTAL

20 Required
4 each required @ Pier 6, Span 6 N.B.
Abut. 2, Span 7 N.B
Pier 6, Span 6 S.B.
Pier 7, Span 7 S.B.
Abut. 2, Span 8 S.B.

TYPICAL WELDING DETAIL

Sole ℄ to Girder



DOUBLE SPIRALS

Indicated by "2" in table

SINGLE SPIRALS

Indicated by "1" in table.

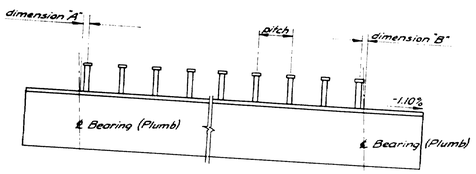
TABLE OF SPIRAL LOCATIONS

Girder	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral	lap	Spiral
GA6SB	2-SP1	3¾"	2-SP2	3"	1-SP3	3"	1-SP4	3"	1-SP5*	3"							1-SP4	3"	1-SP3	3"	2-SP2	3¾"	2-SP1
GB6SB	2-SP4	2½"	2-SP1	2⅝"	1-SP6	2⅝"	1-SP3	2⅝"	1-SP7	2⅝"							1-SP3	2⅝"	1-SP6	2⅝"	2-SP1	2½"	2-SP4
GC6SB	2-SP4	3½"	2-SP1	3"	1-SP6	3"	1-SP8	3⅜"									1-SP8	3"	1-SP6	3"	2-SP1	3½"	2-SP4
GD6SB	2-SP1	2⅝"	1-SP6	2⅝"	1-SP9	2¾"	1-SP7	2¹¹⁄₁₆"									1-SP7	2⅝"	1-SP9	2¾"	1-SP6	2⅝"	2-SP1
GA6NB	2-SP1	2¼"	2-SP2	2⅝"	1-SP6	2½"	1-SP9	2½"	1-SP8	2½"	1-SP10	2⅝"	1-SP10	2½"	1-SP8	2½"	1-SP9	2½"	1-SP6	2¼"	2-SP2	2⅝"	2-SP1
GB6NB	2-SP8	3"	2-SP1	3"	2-SP2	3"	1-SP9	3"	1-SP11	2⅝"	1-SP5	2¾"			1-SP11	3"	1-SP9	3"	2-SP2	3"	2-SP1	3"	2-SP8
GC6NB	2-SP4	2½"	2-SP1	2⅝"	1-SP12	2½"	1-SP3	2½"	1-SP7	2⅝"					1-SP7	2½"	1-SP3	2½"	1-SP12	2½"	2-SP1	2⅝"	2-SP4
GD6NB	2-SP1	3½"	2-SP2	3½"	1-SP3	3⅝"	1-SP11	3¼"	1-SP13	3¼"							1-SP11	3¼"	1-SP3	3½"	2-SP2	3½"	2-SP1
* 109'(all)	2-SP4	2½"	2-SP1	2⅝"	2-SP5	2⅝"	1-SP3	2⅝"	1-SP7	2½"					1-SP7	2⅝"	1-SP3	2⅝"	2-SP5	2⅝"	2-SP1	2½"	2-SP4

* GA, B, C, D 7 SB; GA, B, C, D 8 SB; GA, B, C, D 7 NB (12 Girders for Spans 7 & 8 South Bound and Span 7 North Bound)

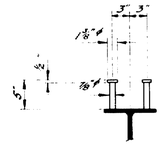
SHEAR CONNECTOR NOTE

Dimensions and layout of shear connectors given along steel (on -1.10% grade) Spiral reinforcing or studs may be used at the option of the contractor. If studs are used they shall be granular or solid film fillet and automatically end welded to top flange plates in the shop or field. Studs are a patented product. If the Contractor elects to use them he shall pay the royalty and payment to the Contractor will be included in the lump sum price paid for "Shear Connectors," Item 705-17.



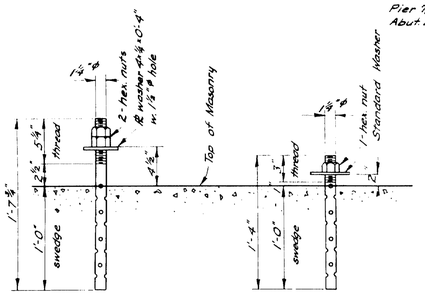
STUD DETAIL

2 studs @ each pitch



SPIRAL TABLE

Spiral	Number	Spaces	Pitch	Length
SP1	36	20	7"	11'-8"
SP2	16	18	8"	12'-0"
SP3	10	26	5"	10'-10"
SP4	18	26	6"	13'-0"
SP5	6	16	8"	10'-8"
SP6	8	24	4"	8'-0"
SP7	7	16	7"	9'-4"
SP8	8	22	6"	11'-0"
SP9	6	24	5"	10'-0"
SP10	2	13	9"	9'-9"
SP11	4	16	6"	8'-0"
SP12	2	25	4"	8'-4"
SP13	1	19	8"	12'-8"



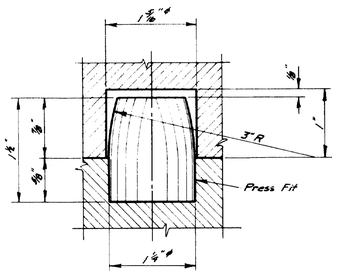
AB4

40 Required

AB5

80 Required

ANCHOR BOLTS



PINTLE DETAIL

TABLE OF STUD LOCATIONS

Girder	Dim. "A"	Number of Spaces of a pitch of: 4"	5"	6"	7"	8"	9"	10"	12"	10"	9"	8"	7"	6"	5"	4"	Dim. "B"
GA6SB	¾"		24	20	21		16		15		16		21	20	24		11/16"
GB6SB	¼"	25	20	16	16		11		10		11		16	16	20	25	¼"
GC6SB	13/16"	24	18	17	14		10		6		10		14	17	18	24	13/16"
GD6SB	5/16"		20	20		15		7	8	7		15		20	20		5/8"
GA6NB	¾"		24	20	17	16		14	18	14		16	17	20	24		11/16"
GB6NB	¼"	25	23	20	12	12		10	11	10		12	12	20	23	25	¼"
GC6NB	13/16"	24	23	21	16		13		10		13		16	21	23	24	13/16"
GD6NB	5/16"		20	17	14	12		8	16	8		12	14	17	20		3/8"
* 109'(all)	0"	18	30	22	15		13		13		13		15	22	30	18	1/16"

7944 studs required

* GA, B, C, D 7 SB; GA, B, C, D 8 SB; GA, B, C, D 7 NB (12 Girders for Spans 7 & 8 South Bound and Span 7 North Bound)

Note: For shear connectors spans 1-5 see sh. 42.

PEDESTALS & SHEAR CONNECTORS

DESIGN- M.C.R.
TRACE- J.W.M.
CHECK- T.H.K.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

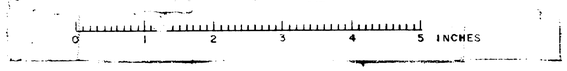
BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

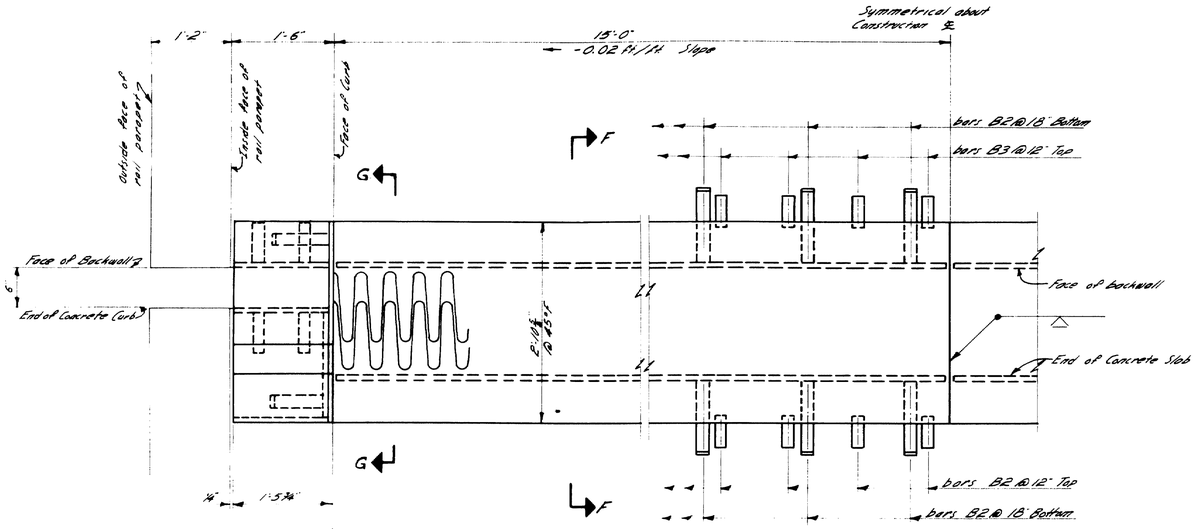
STEEL DETAILS; SPANS 6 & 7 NB AND 6, 7 & 8 SB

SHEET 50 OF 92 AUGUSTA, MAINE NOV. 1962

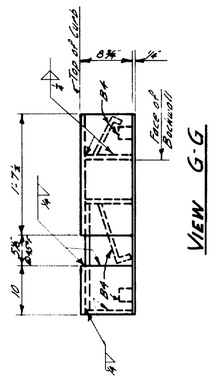
C. B. CO., NO 3798 10-62

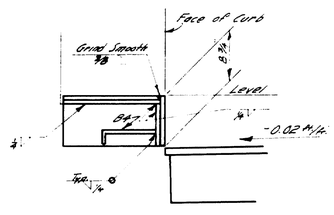


B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	51	92



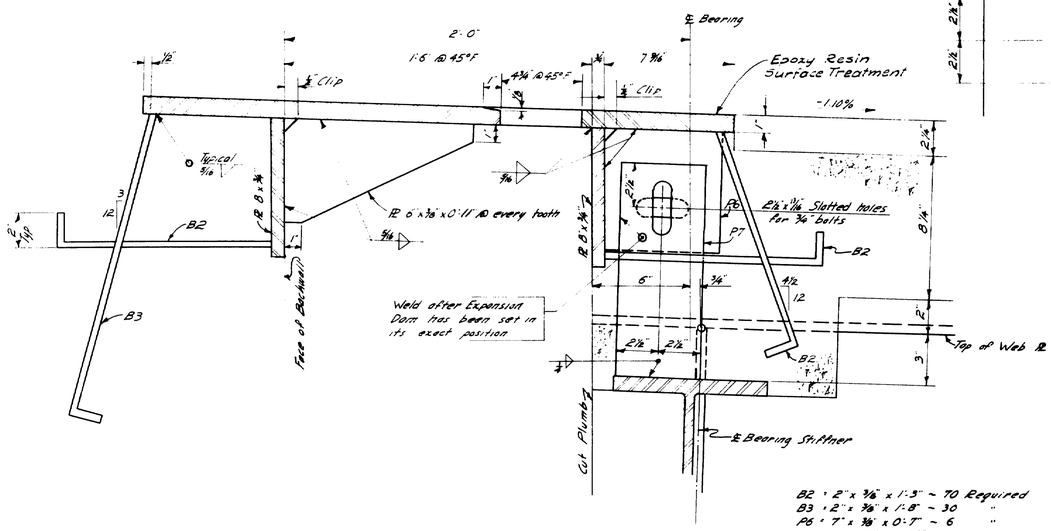
EXPANSION DAM PLAN FOR ABUTMENT "1 N.B. AND "1 S.B.





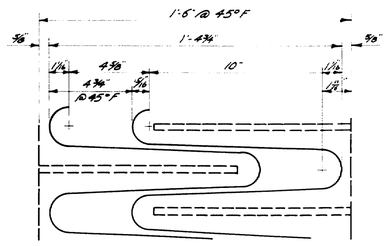
CURB EXPANSION DAM

All plates to be ⅜" thick.
B4 = 2"x ⅜" x 1'-0" - 6 required.



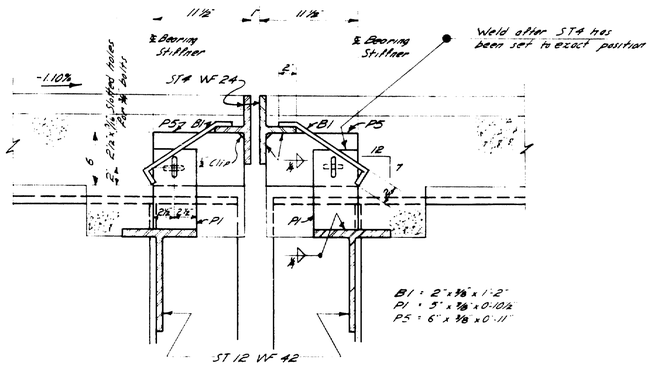
B2 = 2"x ⅜" x 1'-3" - 70 Required
B3 = 2"x ⅜" x 1'-8" - 30 "
P6 = 7"x ⅜" x 0'-7" - 6 "
P7 = 5"x ⅜" x 1'-0½" - 6 "

SECTION F·F



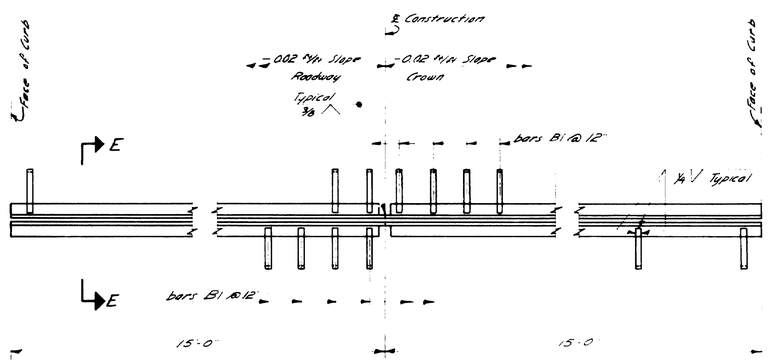
TOOTH DETAIL

Cut from PL 30x1"



SECTION E·E

4 P1 & 4 P5 required for each side of armored joint



ARMORED JOINT FOR PIERS "5 N.B AND "5 S.B.

DESIGN- M.F.R. TRACE- M.F.A. CHECK- A.H.W.	DET- T.H.K.	BRIDGE NO SURVEY - PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

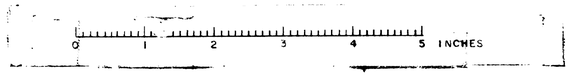
BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

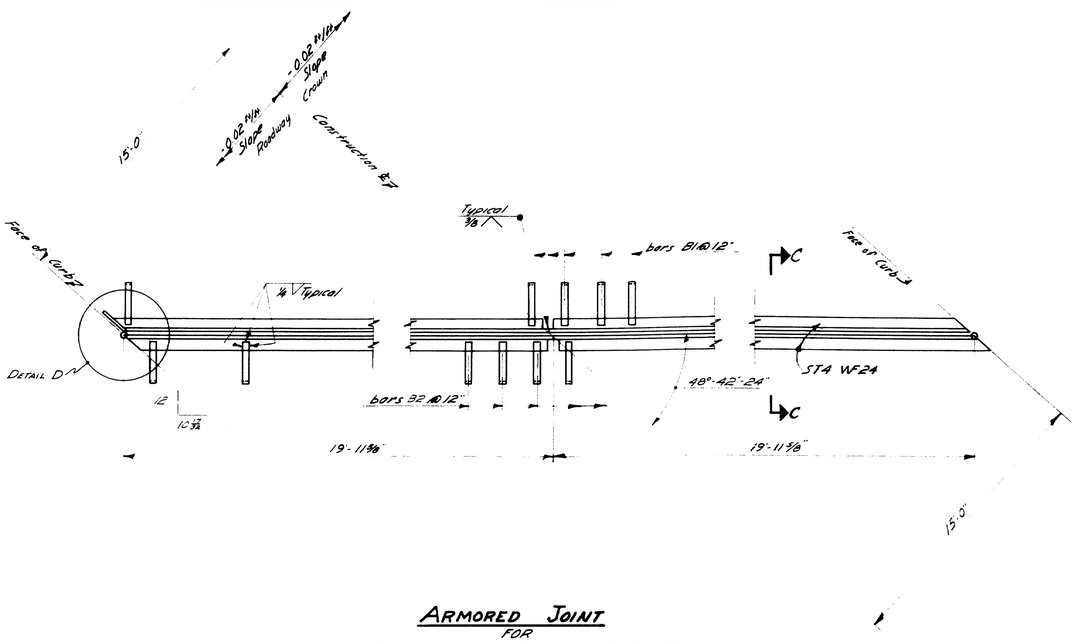
EXPANSION DAM AND ARMORED JOINT

SHEET 51 OF 92 AUGUSTA, MAINE NOV. 1962

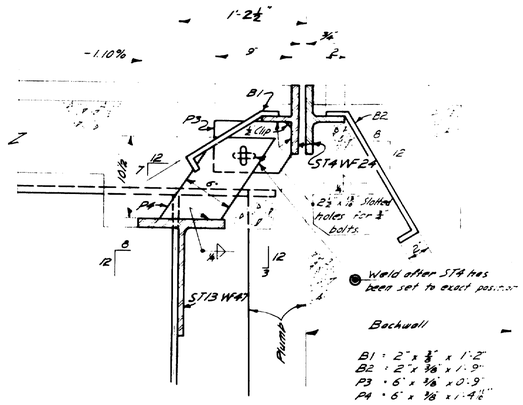
C. B. CO., NO 3798 48197



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	52	92

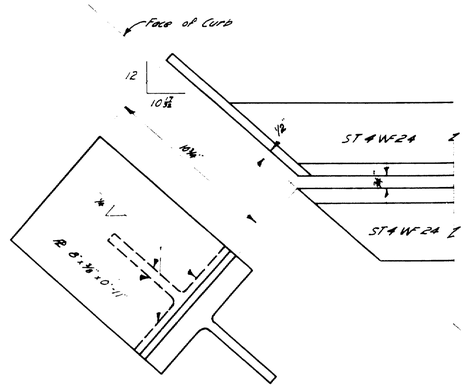


ARMORED JOINT FOR ABUTMENT #2 N.B AND #2 S.B.

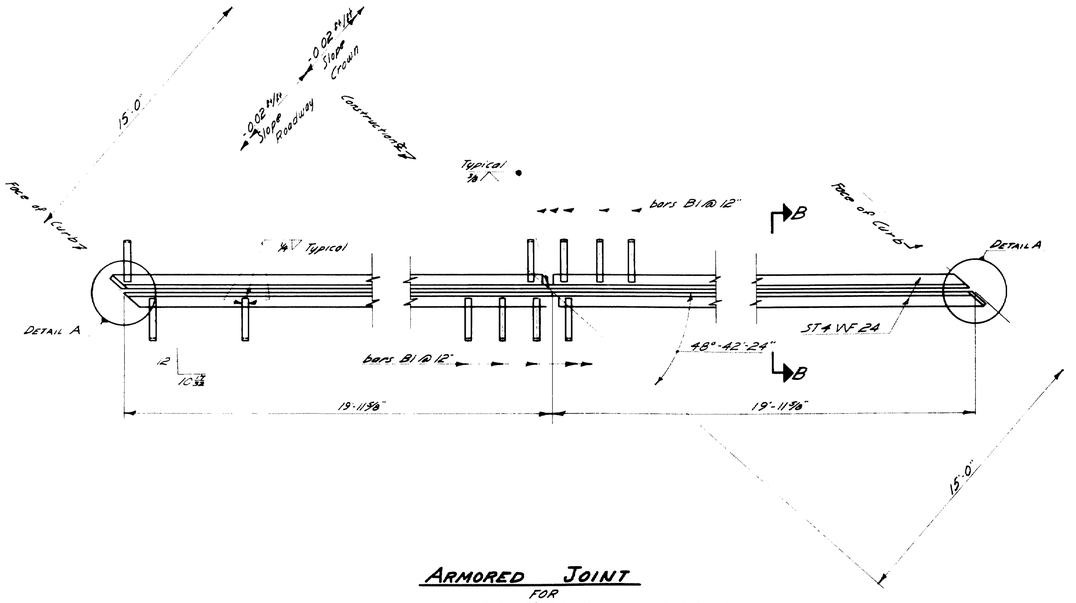


SECTION C-C

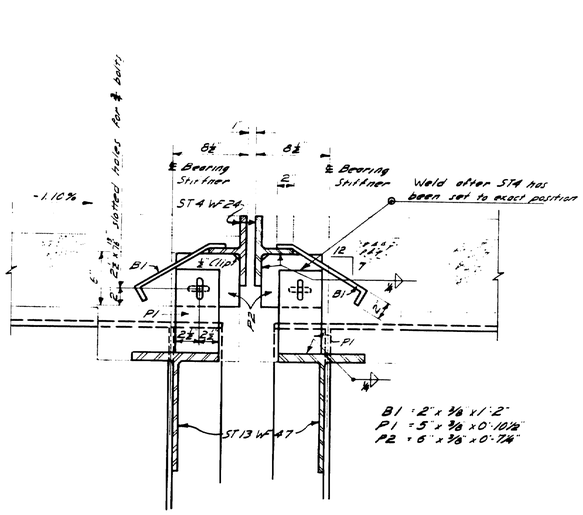
4 P3 & 4 P4 required per sab side of armored joint



DETAIL D

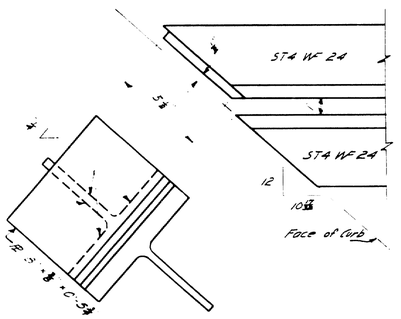


ARMORED JOINT FOR PIERS #6 & #7 S.B., AND #6 N.B.



SECTION B-B

4 P1 & 4 P2 required for each side of armored joint



DETAIL A

DESIGN—M.C.R. DFT.-T.H.K. TRACE—R.T.A. CHECK—A.H.R.	BRIDGE NO. SURVEY— PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

ARMORED JOINTS

SHEET 52 OF 92 AUGUSTA, MAINE NOV. 1962

C.B. CO., NO 3788 10-57

0 1 2 3 4 5 INCHES

H.P.R. REV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	53	92

BOTTOM OF SLAB ELEVATIONS

SPANS #1-#5 S.B. & N.B.

GIRDERS	SPAN #1										SPAN #2										SPAN #3										SPAN #4										SPAN #5									
	℄ Brg Abut #1	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #1	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #2	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #3	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #4	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Abut #5
Girder A	125.35	125.28	125.20	125.10	124.98	124.83	124.65	124.46	124.29	124.12	123.97	123.81	123.67	123.55	123.42	123.27	123.08	122.87	122.64	122.43	122.24	122.09	121.97	121.85	121.73	121.57	121.38	121.16	120.93	120.71	120.52	120.36	120.23	120.10	119.97	119.81	119.62	119.45	119.16	118.97	118.79	118.61	118.56	118.46	118.37	118.27	118.5	118.00	117.82	117.63	117.41
" B	125.35	125.29	125.21	125.11	125.18	125.03	124.86	124.67	124.50	124.33	124.18	124.02	123.88	123.76	123.63	123.47	123.28	123.07	122.85	122.64	122.45	122.30	122.18	122.06	121.93	121.78	121.59	121.37	121.14	120.92	120.72	120.57	120.43	120.31	120.19	120.02	119.83	119.6	119.39	119.18	119.00	118.87	118.76	118.66	118.58	118.48	118.35	118.20	118.03	117.83	117.62
" C	125.35	125.29	125.21	125.11	125.18	125.03	124.86	124.67	124.50	124.33	124.18	124.02	123.88	123.76	123.63	123.47	123.28	123.07	122.85	122.64	122.45	122.30	122.18	122.06	121.93	121.78	121.59	121.37	121.14	120.92	120.72	120.57	120.43	120.31	120.19	120.02	119.83	119.6	119.39	119.18	119.00	118.87	118.76	118.66	118.58	118.48	118.35	118.20	118.03	117.83	117.62
" D	125.35	125.28	125.20	125.10	124.98	124.83	124.65	124.46	124.29	124.12	123.97	123.81	123.67	123.55	123.42	123.27	123.08	122.87	122.64	122.43	122.24	122.09	121.97	121.85	121.73	121.57	121.38	121.16	120.93	120.71	120.52	120.36	120.23	120.10	119.97	119.81	119.62	119.45	119.16	118.97	118.79	118.61	118.56	118.46	118.37	118.27	118.15	118.00	117.82	117.63	117.41

L = Span Length, center to center of Bearings

SPANS #6, #7 & #8 S.B.

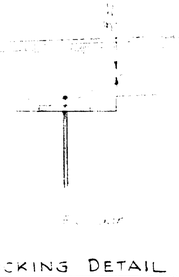
GIRDERS	SPAN #6										SPAN #7										SPAN #8									
	℄ Brg Abut #6	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Pier #7	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Pier #7	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Abut #8
Girder A	119.3	119.35	117.39	117.25	117.1	116.94	116.79	116.7	116.61	116.44	116.27	116.1	116.0	115.93	116.76	115.95	115.83	115.74	115.58	115.4	115.23	115.33	115.01	114.97	114.91	114.84	114.76	114.65	114.52	114.36	114.2	114.0	113.81	113.6	113.4	113.2	113.0	112.81	
" B	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.15	116.05	115.90	115.73	115.54	115.34	115.12	115.08	115.03	114.96	114.89	114.78	114.65	114.49	114.33	114.13	113.94	113.73	113.53	113.33	113.13	112.94	
" C	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.15	116.05	115.90	115.73	115.54	115.34	115.12	115.08	115.03	114.96	114.89	114.78	114.65	114.49	114.33	114.13	113.94	113.73	113.53	113.33	113.13	112.94	
" D	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.15	116.05	115.90	115.73	115.54	115.34	115.12	115.08	115.03	114.96	114.89	114.78	114.65	114.49	114.33	114.13	113.94	113.73	113.53	113.33	113.13	112.94	

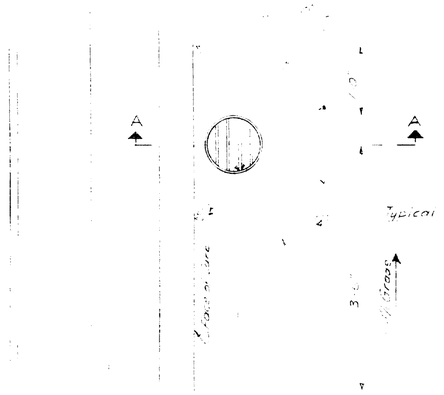
SPANS #6 & #7 N.B.

GIRDERS	SPAN #6										SPAN #7										
	℄ Brg Abut #6	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Pier #7	.1L	.2L	.3L	.4L	.5L	.6L	.7L	.8L	.9L	℄ Brg Abut #8
Girder A	119.3	119.35	117.39	117.25	117.1	116.94	116.79	116.7	116.61	116.44	116.27	116.1	116.0	115.93	115.86	115.77	115.68	115.58	115.4	115.23	115.33
" B	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.24	116.17	116.08	115.97	115.84	115.69	115.52	115.33	115.12	114.9	114.68	114.46	114.25	114.05	113.86	113.68	113.52	113.37	113.24	113.12	113.02	112.93	
" C	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.24	116.17	116.08	115.97	115.84	115.69	115.52	115.33	115.12	114.9	114.68	114.46	114.25	114.05	113.86	113.68	113.52	113.37	113.24	113.12	113.02	112.93	
" D	119.3	119.35	117.39	117.46	117.3	117.13	116.97	116.88	116.72	116.56	116.4	116.24	116.50	116.45	116.38	116.29	116.24	116.17	116.08	115.97	115.84	115.69	115.52	115.33	115.12	114.9	114.68	114.46	114.25	114.05	113.86	113.68	113.52	113.37	113.24	113.12	113.02	112.93	

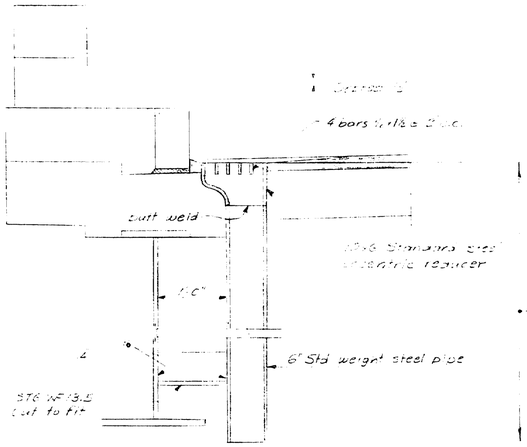
NOTES:
Elevations for spans 6, 7 & 8 are based on the final profile grade elevations at the bottom of slab at the center of the span. Intermediate elevations are obtained by straight line interpolation between the above forms are started.

BLOCKING DETAIL





PLAN



SECTION A-A

NOTES:
Payment for steel pipe drains to be included in the lump sum contract cost for Structural Steel, Items 703.103 S, 702.104 S and 703.10 B.

DRAIN DETAILS

DESIGNED
DRAWN
TRACED
CHECKED

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

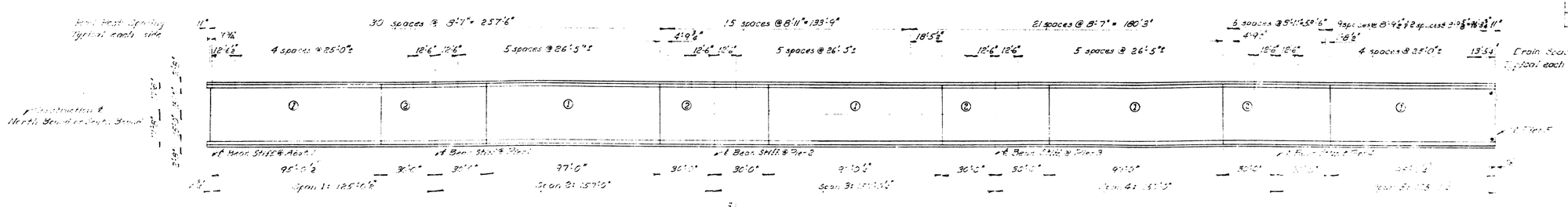
CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

BLOCKING & DRAINS

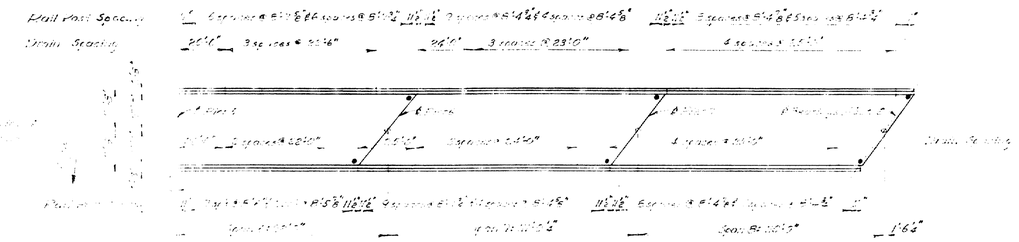
SHEET 53 OF 92 SHEETS AUG. [redacted] NOV. 1962

FED. AID PROJ. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-1(28)	54	92

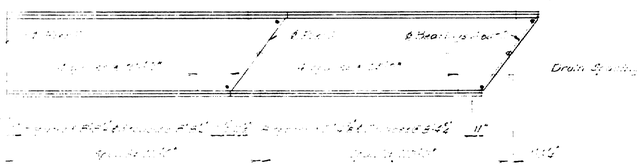


LAYOUT PLAN - SPANS 1 THRU 5

North Bound & South Bound Identical

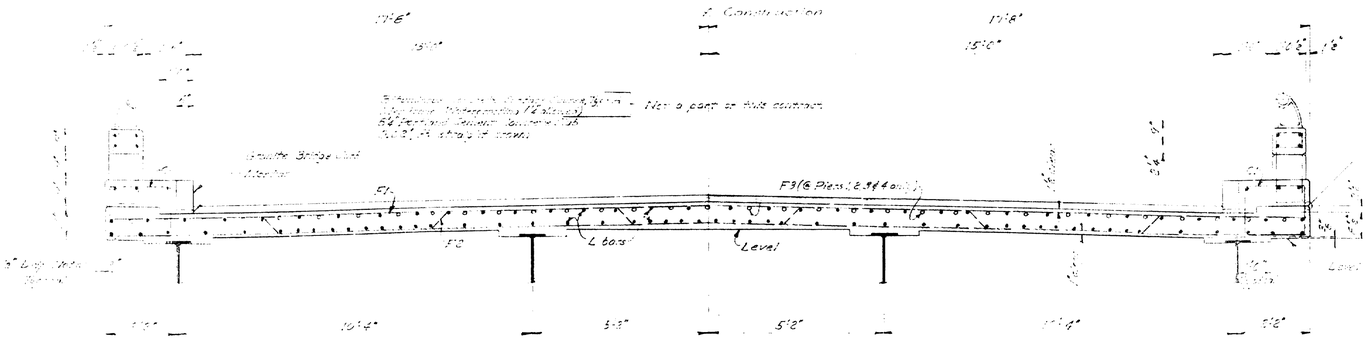


LAYOUT PLAN - SPANS 6, 7 & 8 SOUTH BOUND



LAYOUT PLAN - SPANS 6 & 7 NORTH BOUND

SIDE ELEVATION



TYPICAL TRANSVERSE SECTION

1" V-GROOVE

GENERAL SLAB NOTES

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

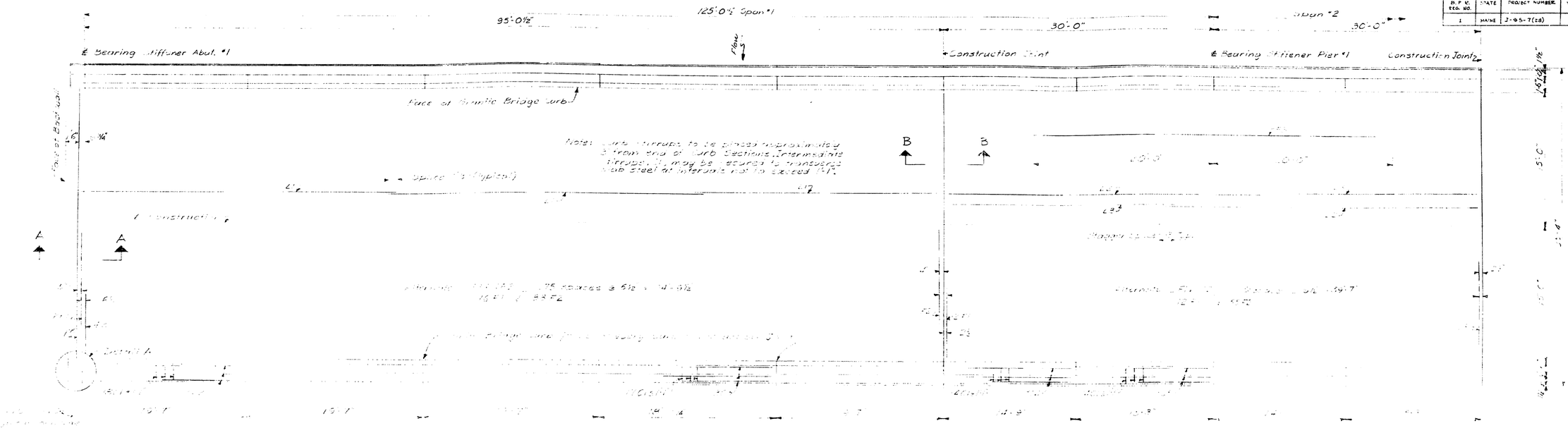
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

SUPERSTRUCTURE SLAB

SHEET 54 OF 92 AUGUSTA, MAINE NOV. 1962

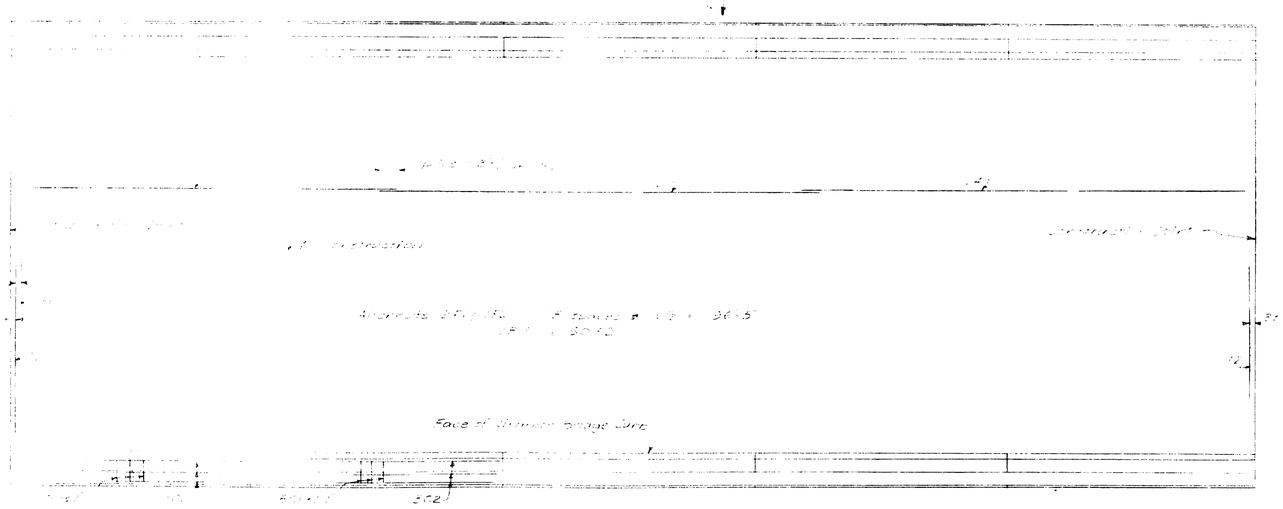
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-95-7(28)	55	92



PLAN SPAN #1 N.B.&S.B.

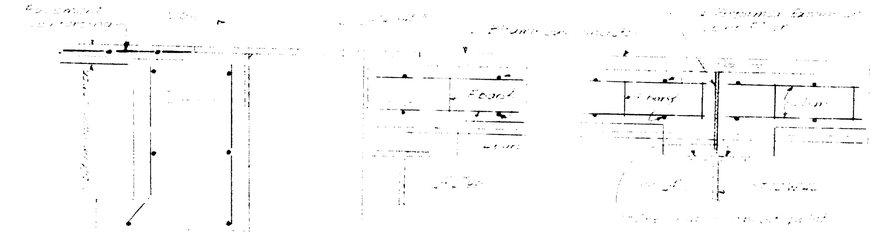
PLAN - TYPICAL 30' SECTION OVER PIERS N.B.&S.B.

TYPICAL AT PIERS #1, #2



PLAN - TYPICAL 97'-0" SECTION N.B.&S.B.

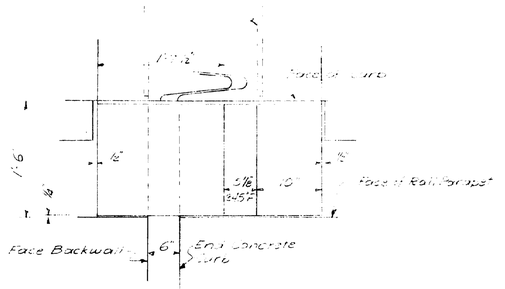
* For 30'-0½" Section make Curb Constr. Joint 18'-8¼"



SECTION A-A

SECTION B-B

TYPICAL CONSTRUCTION JOINT



DETAIL A

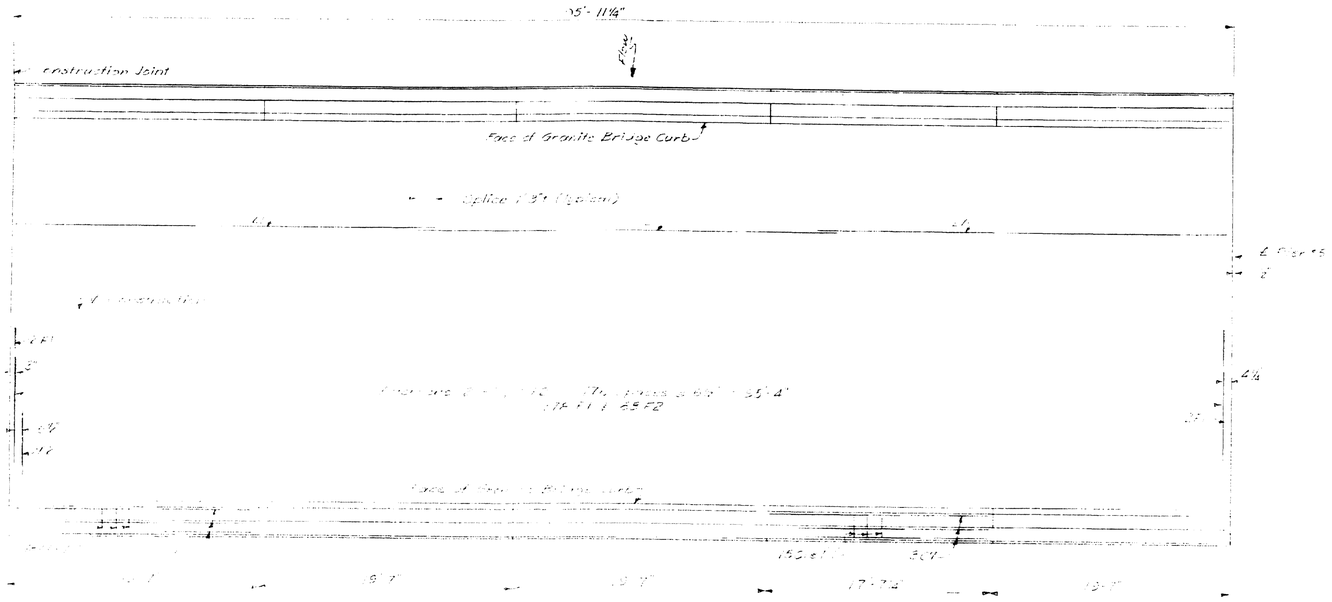
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

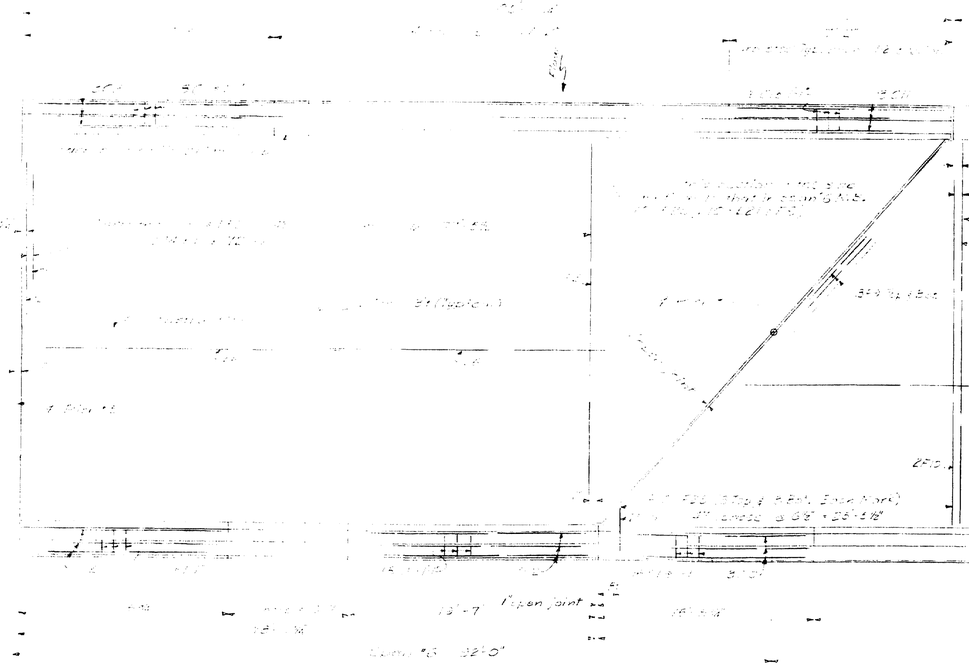
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
NORRIDGEWOCK AND SKOWHEGAN
SOMERSET AND KENNEBEC COUNTIES
SUPERSTRUCTURE SLAB
SHEET 55 OF 92 SHEETS AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

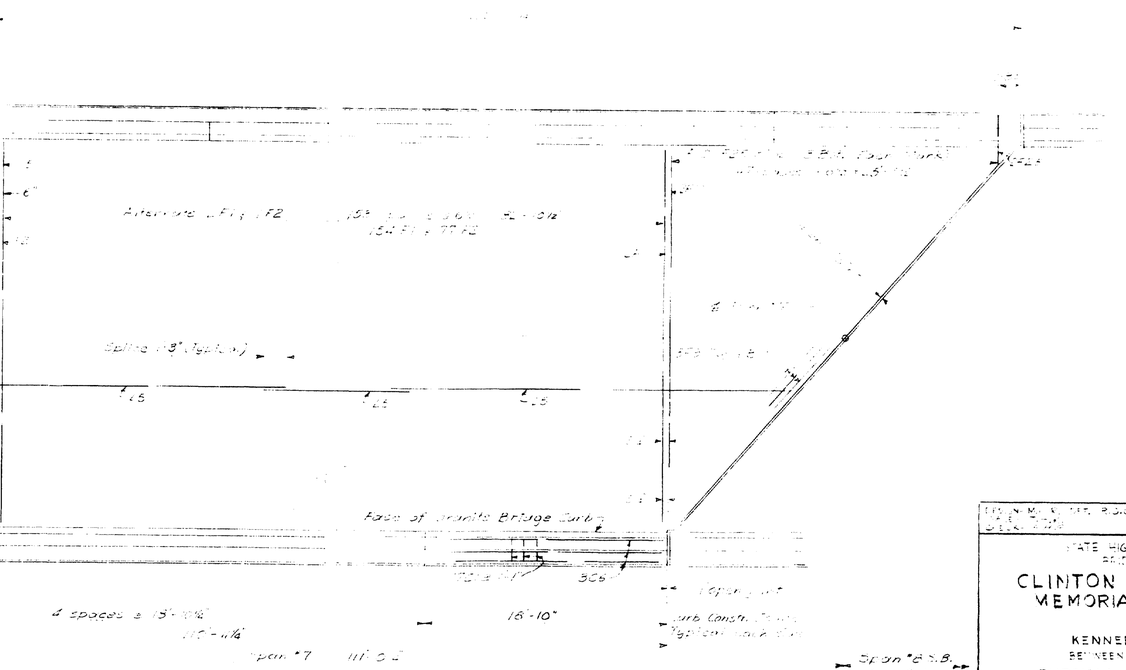
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(26)	56	92



PART PLAN SPAN #5 N.B & S.B.



PLAN - SPAN #6 S.B.



PLAN - SPAN #7 S.B.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

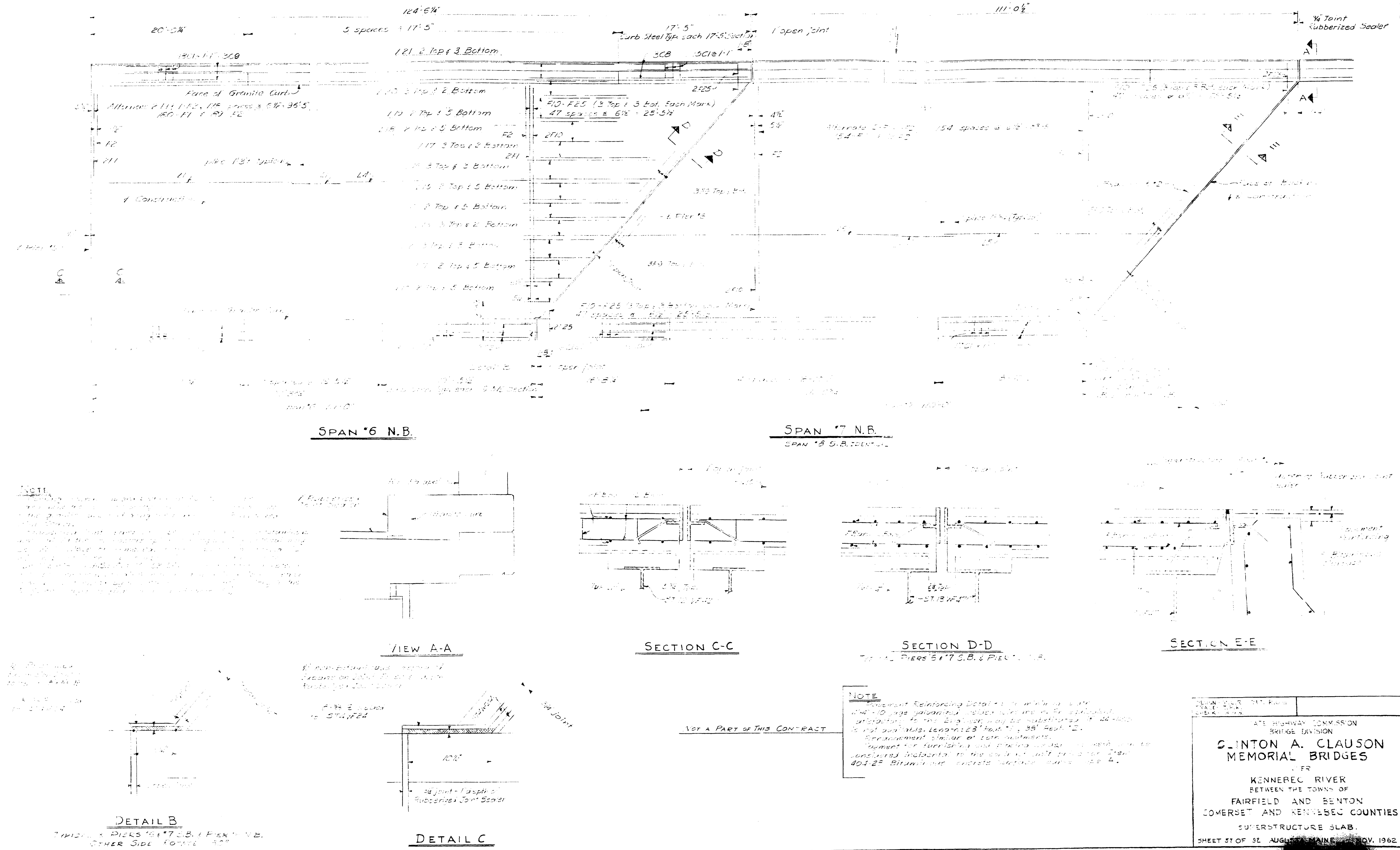
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

SUPERSTRUCTURE SLAB

SHEET 56 OF 92 AUGUSTA, MAINE Nov. 1962

B.P.R. REG. NO	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	57	92



STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

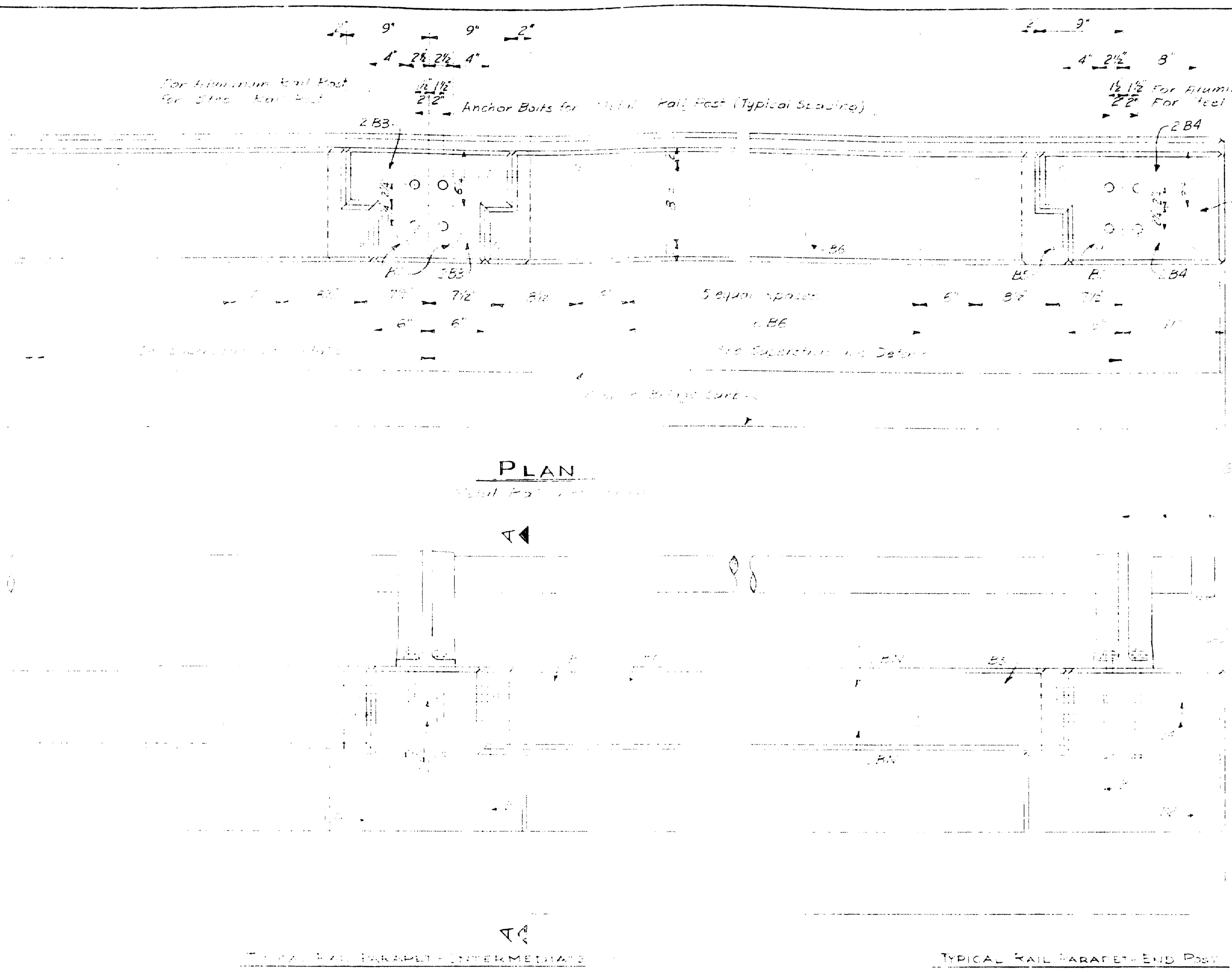
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

SUPERSTRUCTURE SLAB.

SHEET 57 OF 92 AUGUSTA, MAINE NOV. 1962

F.H.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	58	92

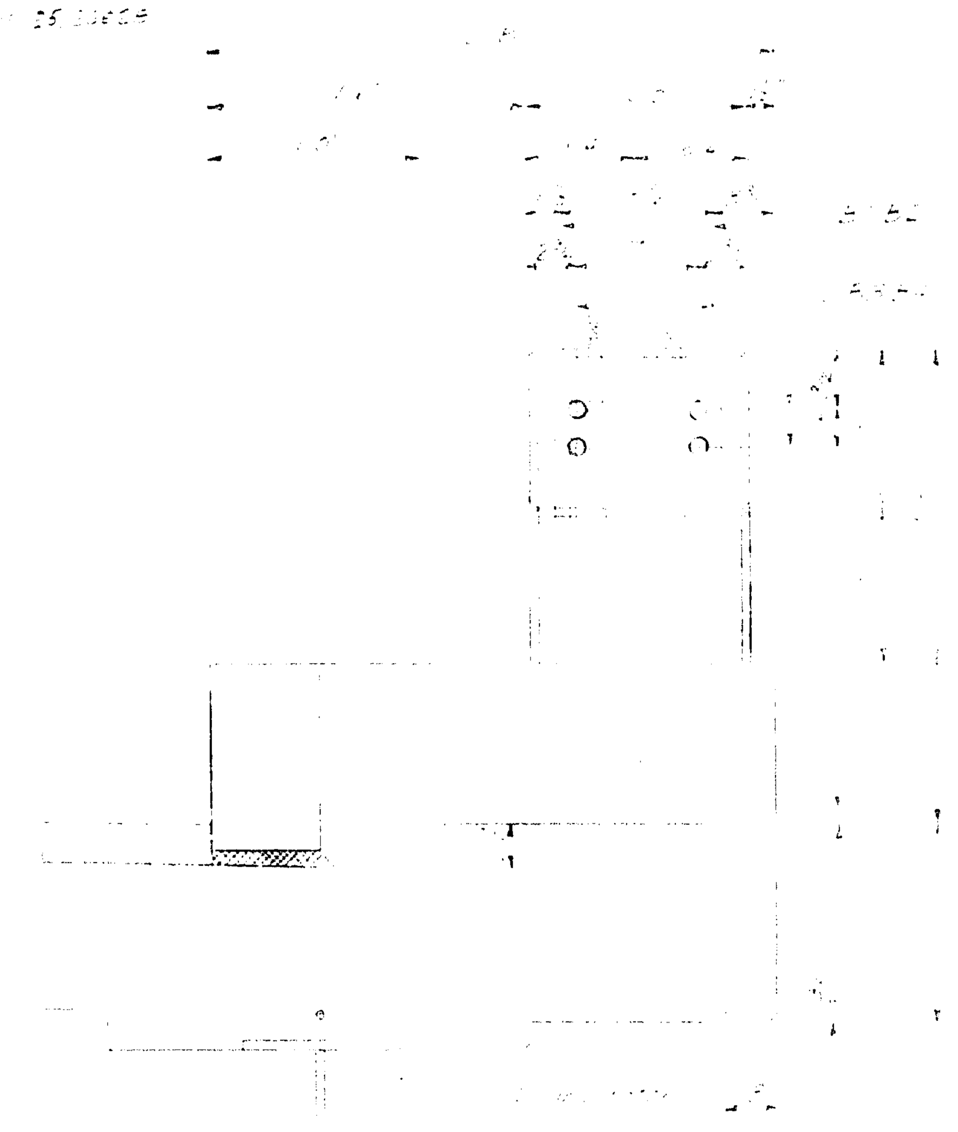


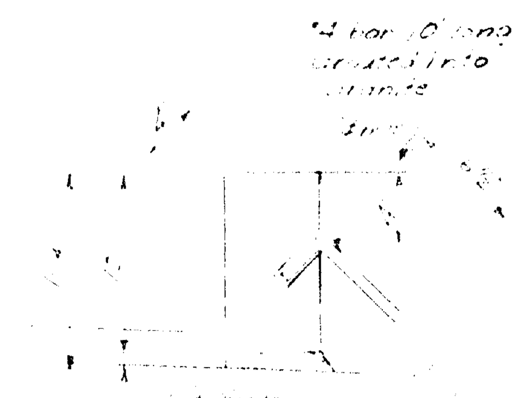
RAIL SPACING	SPANS	NO. OF RAIL SPACES	BN BARS
8'-7"	*1,*2,*3,*4 N.B. & S.B.	104	B7
8'-11"	*2,*3,*4,*5 N.B. & S.B.	54	B8
[illegible]	*5 N.B. & S.B.	[illegible]	[illegible]
[illegible]	*1 N.B. (S.B.)	14	B9
[illegible]	*5 N.B. (S.B.)	[illegible]	[illegible]
[illegible] 4¼", 8'-4⅞"	*7 N.B. [illegible]	6	B11
[illegible] 7¾"	*6 S.B. [illegible]	2	B10
[illegible] 8'-6"	*6 S.B. (D.S.)	[illegible]	B12
[illegible]	Abutments [illegible]	2	[illegible]
* 8'-11"	Retaining Walls & Abutment [illegible]	* 3	

* Metal rail only.

NOTE:

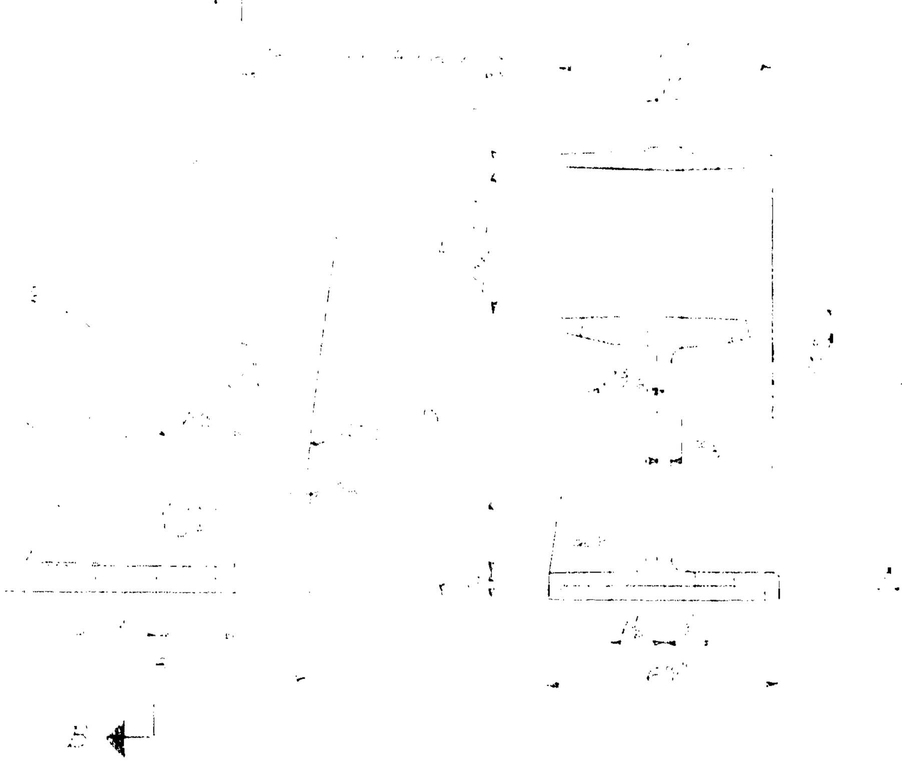
[illegible] rail parapet [illegible] shall be cast a minimum of [illegible] hours prior to placing concrete for remainder of rail parapet. Contact surfaces of rail parapet joint at construction joints to be painted with asphalt paint prior to placing concrete of remainder of rail parapet.





GRANITE CURB DETAIL

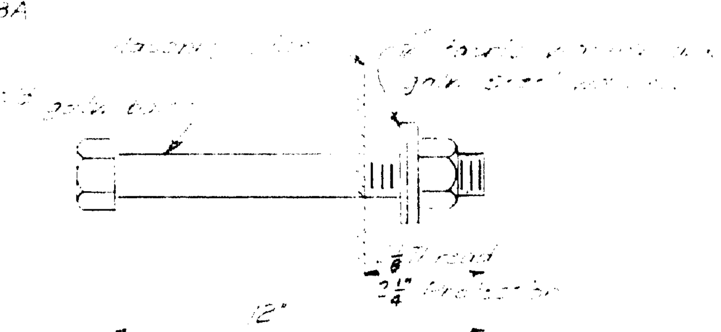
NOTES:
For [illegible] Rail Details, See Sheets 58A



POST

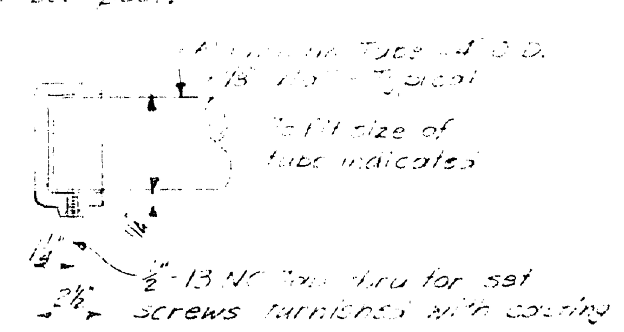
SECTION B-B

NOTE: Slight variations will be permitted in details, if approved by the Engineer, in order to conform with various manufacturers castings.

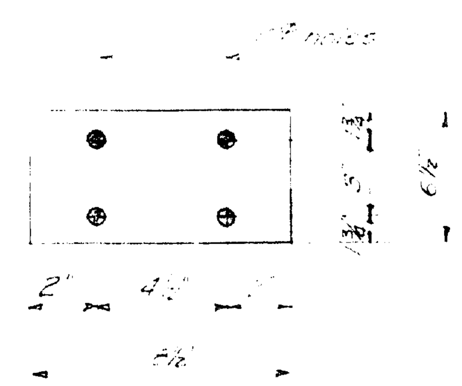


ANCHOR BOLT

Structural steel galvanized bolts to project [illegible] of concrete. 4 - Bolts per post.



CAP



SHIM

Aluminum alloy shims 6½ x ⅛ x 6½" Furnish in the amount of 50% of number of rail posts. Cut as necessary.

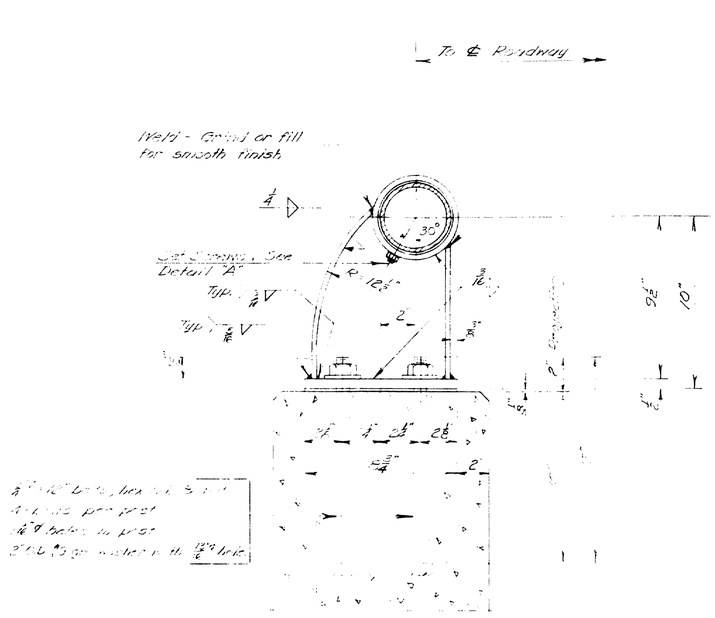
NOTE:
Aluminum tubes to be continuous for [illegible] rail panels.

ALUMINUM RAIL DETAILS

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
CLINTON A. CLAUSON MEMORIAL BRIDGES
OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES
RAIL & GRANITE CURB DETAILS
SHEET 58 OF 92 AUGUSTA, MAINE NOV. 1962

0 1 2 3 4 5 INCHES

B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	58 A	*92

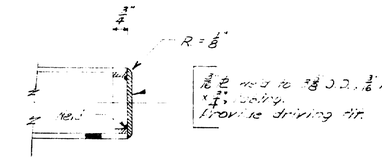


SECTION A-A

CAP

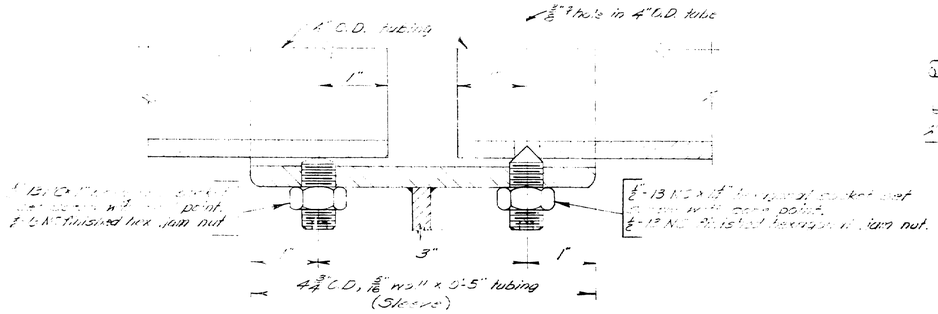
RAIL POST

4" O.D. tubing to be continuous for a minimum of two rail panels. For tubing two or more panels long the one point set screw is to be tight in the hole provided in 4" O.D. tubing. At all other posts one oval point set screw per post shall be set to bear. Where tubes are not continuous thru posts leave 1" gap at ℄ post.



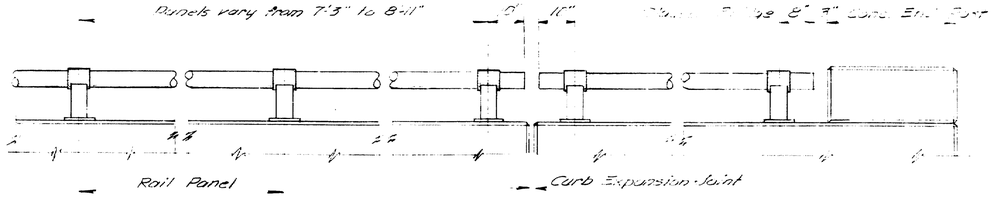
ALTERNATE CAP

PREFORMED PAD



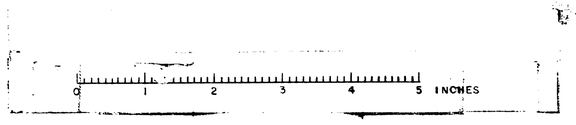
DETAIL "A"

Drill and tap Sleeve 5/8"-13 NC(2 places)
Drill 4" O.D. tubing (Rail) 3/8" ø hole, 1" from one end only.



SIDE ELEVATION - RAIL

NOTE: 4" O.D. Tubing, Posts, Bolts, Nuts & Washers to be galvanized.



DESIGN - WBH
DETAILED - SNL
CHECK - MK

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

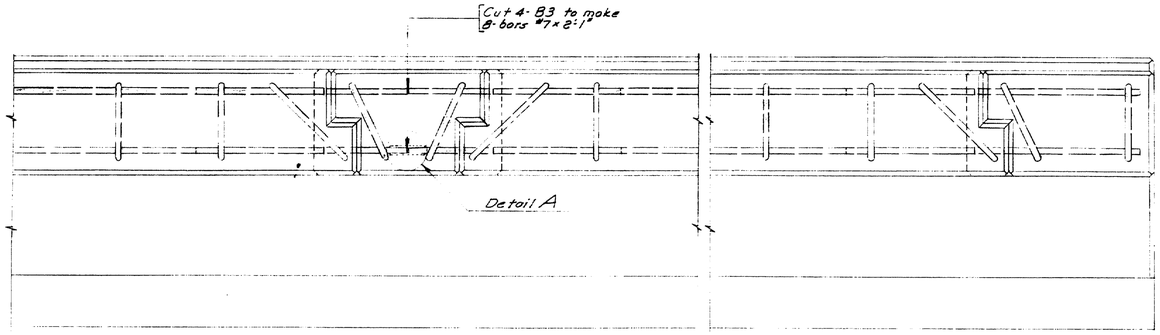
CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

STEEL RAIL

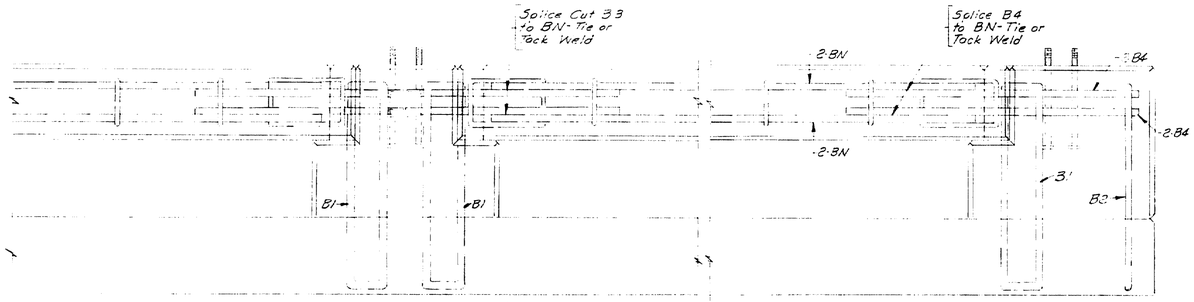
SHEET 58A OF 92 AUGUSTA, ME., Nov. 1962

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(18)	58	92



PLAN

Metal Rail not shown

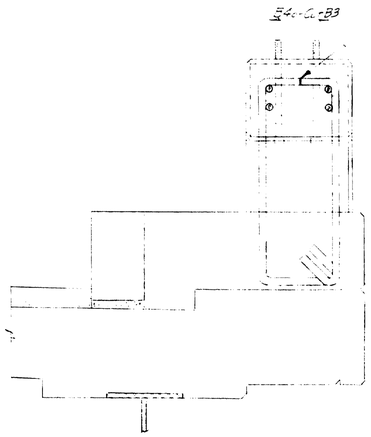


TYPICAL RAIL PARAPET - INTERMEDIATE POST

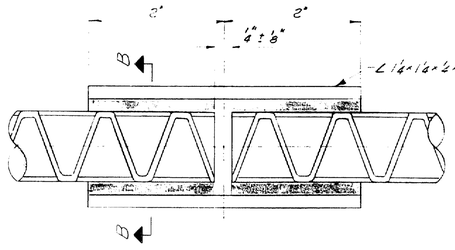
TYPICAL RAIL PARAPET - END POST

ELEVATION

Metal Rail not shown

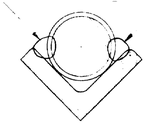


SECTION A-A



DETAIL A

Note: 3 splices required for Cut B3 at each intermediate post. Front bars only.



SECTION B-B

Weld (use low hydrogen electrodes only)

Note: This sheet shows details required to permit alternate use of rail parapet bars. Utilizing the same detailing steel herein for in place casting. For dimensions and details not shown see Sh. 58

DESIGN- MBR	BRIDGE NO.
TRACE-	SURVEY-
CHECK- LE	PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

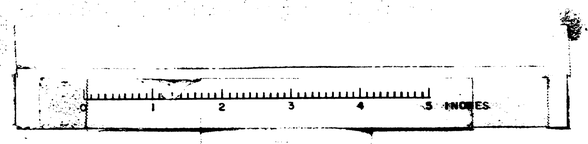
FAIRFIELD AND BENTON

SOMERSET AND KENNEBEC COUNTIES

ALTERNATE RAIL PARAPET DETAILS

SHEET 58 OF 92 AUGUSTA, MAINE OCT. 1963

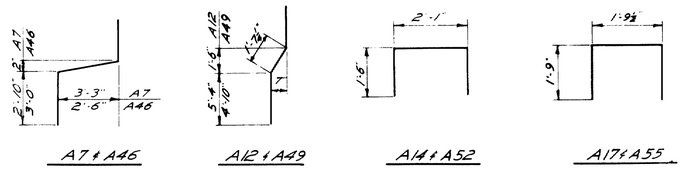
C. B. CO., NO. 44-302 #6616



REINFORCING STEEL

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(28)	53	92

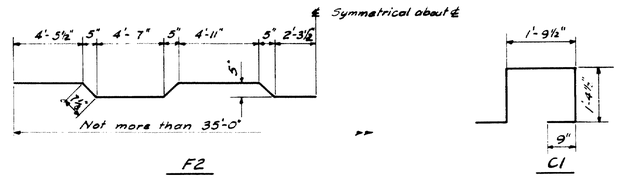
* ABUTMENTS



MARK	SIZE	NUMBER	LENGTH	LOCATION
ABUTMENT #1 N.B. & S.B.				
BENT BARS				
A7	#5	36	7'-10"	Bridge Seat
A12	#6	62	8'-6"	Backwall
A13	#6	40	2'-9"	Backwall
A14	#5	24	5'-1"	Bearing Areas
A17	#4	48	5'-3	Wings, Curb
A20	#5	48	6'-6"	Backwall & Wings
A21	#7	30	6'-6"	Backwall & Long Wing
A26	#6	16	9'-3"	End Posts
STRAIGHT BARS				
A1	#6	124	7'-0"	Footing
A2	#6	72	6'-6"	"
A3	#6	20	2'-9"	"
A4	#6	32	36'-4"	"
A5	#6	28	25'-0"	"
A6	#5	150	3'-6"	Footing
A8	#5	52	8'-4"	Backwall
A9	#4	10	33'-10"	Bridge Seat
A10	#4	28	34'-10"	Backwall
A11	#6	78	5'-0"	Bridge Seat
A15	#5	24	2'-2"	Bearing Areas
A16	#5	36	11'-9"	Long Wing
A18	#6	36	4'-6"	" "
A19	#5	36	10'-0"	" "
A22	#7	12	8'-0"	" "
A23	#7	18	17'-6"	" "
A24	#7	6	11'-3"	" "
A25	#4	16	17'-6"	Long Wing
A27	#4	24	3'-4"	End Posts
A28	#4	4	18'-6"	Long Wing, Curb
RETAINING WALL ABUTMENT #1				
RW1	#6	14	28'-0"	Footing
RW2	#6	58	6'-6"	"
RW3	#5	15	3'-0"	"
RW4	#7	29	5'-6"	Footing
RW5	#5	15	14'-0"	Wall
RW6	#6	29	12'-3	Wall
RW7	#5	20	28'-0"	Wall
APPROACH SLABS ABUTMENTS #1 & #2 N.B. & S.B.				
AS1	#6	480	14'-6"	Abutments #1 & #2
AS2	#4	40	29'-6"	Abutment #1
AS3	#4	40	39'-6"	Abutment #2

MARK	SIZE	NUMBER	LENGTH	LOCATION
ABUTMENT #2 N.B. & S.B.				
BENT BARS				
A46	#5	46	7'-3"	Bridge Seat
A49	#5	78	8'-0"	Backwall
A52	#5	24	5'-1"	Bearing Areas
A55	#4	80	5'-3"	Wings, Curb
A62	#6	16	9'-3"	End Posts
A65	#6	40	2'-9"	Backwall
STRAIGHT BARS				
A40	#6	28	22'-4"	Footing
A41	#6	56	26'-3"	"
A42	#6	296	6'-6"	"
A43	#6	28	24'-5"	"
A45	#5	214	3'-6"	"
A47	#5	60	7'-9"	Backwall & Wings
A48	#5	98	5'-0"	Bridge Seat & Wings
A50	#4	76	24'-0"	Br. Seat & Backwall
A51	#5	12	3'-0"	Inter. Bear. Areas
A53	#5	12	2'-0"	Exterior Bear. Areas
A54	#5	70	11'-1"	Wings
A56	#6	70	4'-6"	"
A57	#5	70	9'-6"	"
A58	#7	56	9'-0"	"
A59	#7	44	12'-0"	"
A60	#5	32	5'-6"	"
A61	#5	32	15'-6"	"
A63	#4	24	3'-4"	End Posts
A64	#4	8	18'6	Wings, Curb

* SUPERSTRUCTURE



MARK	SIZE	NUMBER	LENGTH	LOCATION
SPANS #1 THRU #5 N.B. & S.B.				
BENT BARS				
F2	#6	1332	36'-1"	Transverse bar
C1	#5	2668	6'-1"	Curb stirrup
STRAIGHT BARS				
F1	#6	2672	35'-0"	Transverse bar
F3	#5	264	40'-0"	Long. bar over Piers
L1	#5	2016	32'-8"	Longitudinal bar
L2	#5	672	35'-6"	" "
L3	#5	672	25'-6"	" "
L4	#5	504	33'-10"	" "
C2	#4	240	19'-3"	Long. bar @ Curb
C3	#4	12	17'-11"	" "
C4	#4	96	14'-5"	" "
C5	#4	96	14'-11"	" "
C6	#4	36	18'-4"	" "
C7	#4	12	17'-3"	" "

MARK	SIZE	NUMBER	LENGTH	LOCATION
SPANS #6, #7 & #8 S.B. - #6, #7 & #8 S.B.				
BENT BARS				
F2	#6	394	36'-1"	Transverse bar
C1	#5	974	6'-1"	Curb stirrup
STRAIGHT BARS				
F1	#6	786	35'-0"	tranverse bar
L1	#5	168	32'-8"	Longitudinal bar
L4	#5	84	33'-10"	" "
L5	#5	756	37'-9"	" "
L6	#5	168	39'-9"	" "
C2	#4	30	19'-3"	Long. bar Curb
C6	#4	90	18'-4"	" "
C8	#4	18	17'-1"	" "
C9	#4	3	19'-7"	" "
C10	#4	18	16'-4"	" "
C11	#4	15	16'-10"	" "
F9	#6	48	40'-0"	Transv. Corner bars
F10		48	31'-6"	
F11			29'-8"	
F12			27'-10"	
F13			25'-11"	
F14			24'-1"	
F15			22'-3"	
F16			20'-5"	
F17			18'-6"	
F18			16'-8"	
F19			14'-10"	
F20			13'-0"	
F21			11'-2"	
F22			9'-4"	
F23			7'-6"	
F24			5'-7"	
F25	#6	48	3'-9"	Transv. Corner bar.
L10	#5	14	3'-6"	Long. Corner bars
L11		14	6'-0"	
L12		12	9'-4"	
L13		10	11'-8"	
L14		14	14'-0"	
L15		14	16'-3"	
L16		12	18'-6"	
L17		10	20'-6"	
L18		14	23'-0"	
L19		14	25'-0"	
L20		10	27'-6"	
L21	#5	10	29'-0"	Long. Corner bars

* Rail Parapet reinforcing steel not included.
For Rail Parapet reinforcing steel see sheet #60

All reinforcing steel to be intermediate grade.
All dimensions to ℄ of bars.

DESIGN- M.C.R
TRACE- T.H.K.
CHECK- A.H.P.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON MEMORIAL BRIDGES

OVER

KENNEBEC RIVER

BETWEEN THE TOWNS OF

FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

REINFORCING STEEL ABUTMENTS & SUPERSTRUCTURE

SHEET 53 OF 92 AUGUSTA, MAINE NOV. 1962

C. D. CO., NO 3788 18767

0 1 2 3 4 5 INCHES

F.A.P. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	[illegible](28)	[illegible]	92

PIERS - STRAIGHT BARS

CDH

			NORTH BOUND PIERS						SOUTH BOUND PIERS								
			1	2	3	4	5	6	1	2	3	4	5	6	7		
Mark	Size	Length	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	Total No.	Location
[illegible]	#5	11'8"	72													72	Scar to Pier Shaft (Vert.)
[illegible]	#5	[illegible]	4	44												[illegible]	Pier Const. (Vert.)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]												[illegible]	Bot. Pier Shaft [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]												[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]												[illegible]	Pier [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]												[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	4	4												[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	4	4	[illegible]	[illegible]										[illegible]	[illegible]

PIERS BENT BARS

CDH

			NORTH BOUND PIERS						SOUTH BOUND PIERS								
			1	2	3	4	5	6	1	2	3	4	5	6	7		
Mark	Size	Length	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	Total No.	Location
G9	#5	[illegible]4"	4	14	[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6	6	12	12	[illegible]	[illegible]
G10		17'1"	4	4		4	[illegible]	[illegible]	[illegible]	[illegible]		4		4	4	[illegible]	[illegible]
G11		16'9"	4	4	2	4	[illegible]	[illegible]	[illegible]	[illegible]	2	4	2	4	4	[illegible]	
G12		[illegible]	4	4	4	4	[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	4	[illegible]	[illegible]	
G13		[illegible]	4	4	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	[illegible]	[illegible]	
[illegible]		[illegible]	4	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	4	4	[illegible]	[illegible]	[illegible]	

G9 THRU G16

G24

RAIL PARAPET BARS

Mark	Size	Length	[illegible]
[illegible]	#7	[illegible]2"	[illegible]
[illegible]		2'10"	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		7'3"	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		7'0"	[illegible]
[illegible]		6'[illegible]"	[illegible]
[illegible]		6'[illegible]"	[illegible]
B8	#7	[illegible]7"	[illegible]

B1 & B2

B5 & B6

NOTE

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

CLINTON A. CLAUSON
MEMORIAL BRIDGES

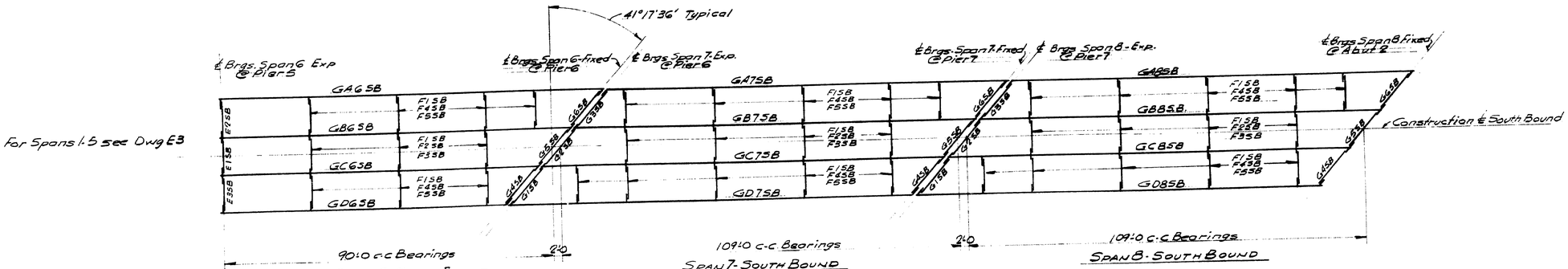
OVER

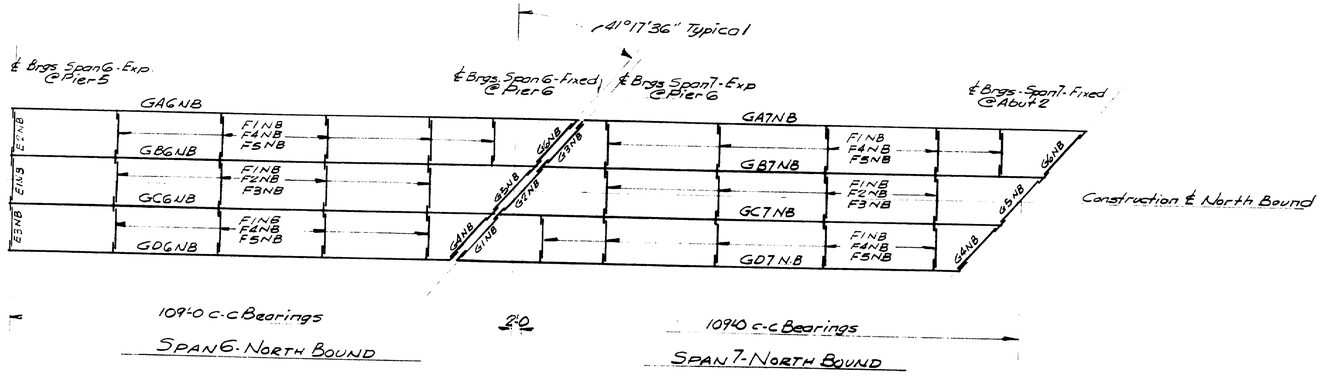
KENNEBEC RIVER
BETWEEN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

RE[illegible] STEEL, PIERS & RAIL PARAPET

SHEET [illegible] OF 92 AUGUSTA, MAINE [illegible] NOV. 1962

0 1 2 3 4 5 INCHES





ERECTION PLAN - SPANS 6-7 & 8 S.B & G & 7 N.B.

GENERAL NOTES

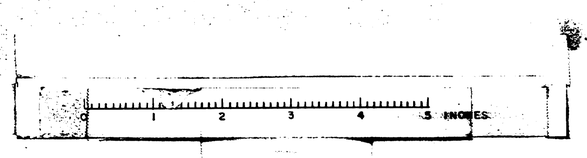
1. Steel for flange plates - web plates & bearing stiffeners shall conform to A.S.T.M. Desig. A-441. All other steel shall conform to A.S.T.M. Desig. A7 or A36.
2. Girders to be cambered as detailed.
3. Welds for flange plate & web plate butts, web to flange fillets & bearing stiffeners to web fillets shall be Submerged Arc - Linde Air Prod. Co.
   Unionmelt 5/32 - #29 wire Grade-50 Melt (Flux)
4. The following non-destructive tests of the welded steel girders will be required.
   A- Radiographic testing of shop butt welds.
   B- Magnetic particle testing of shop welds, girder webs to flanges & bearing stiffeners to girder webs.
   For additional information see supplemental specifications & Special Provisions
5. Flanges & webs are to be butt welded & inspected in accordance with the above specifications prior to being fillet welded to each other.

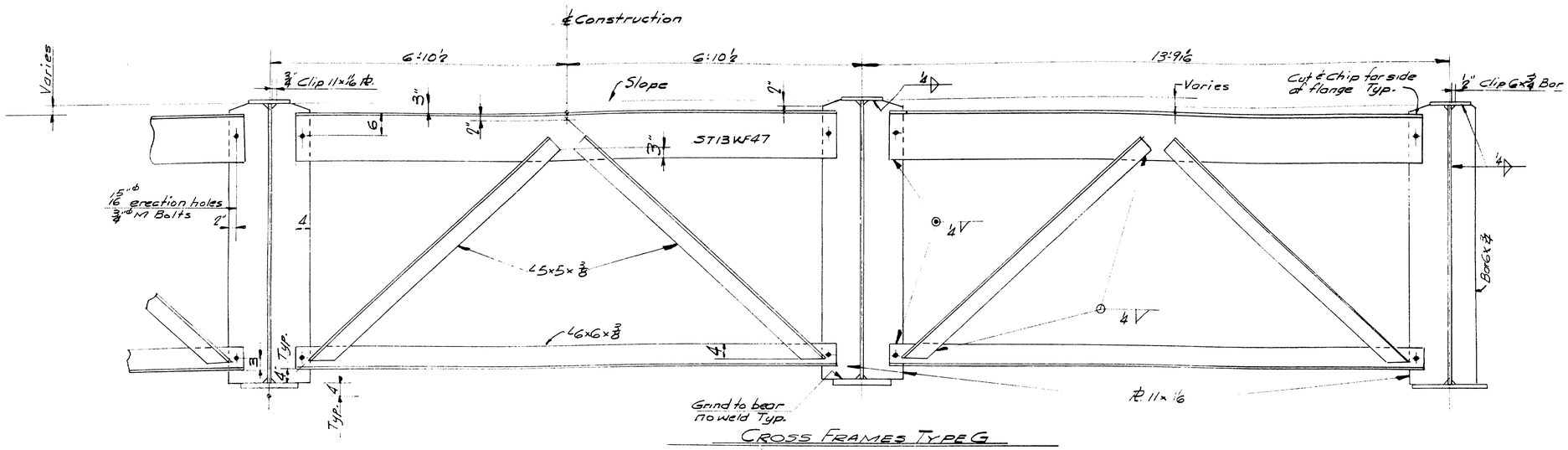
APR 2-19-63

DRAWN	1-2363	J.P.F.
REVISION		
REVISION		
REVISION		

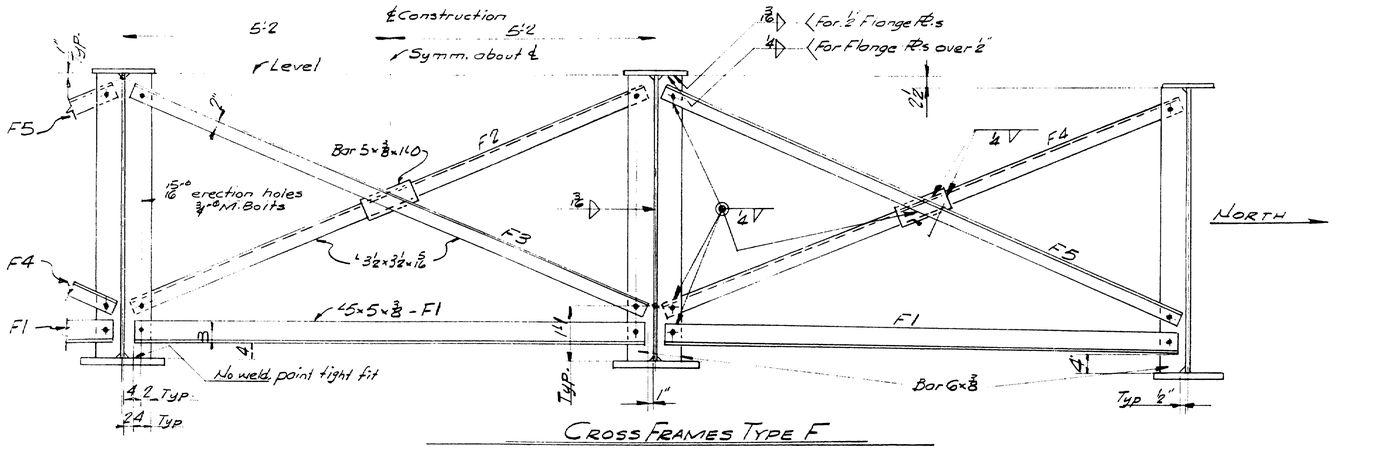
SPANS 6-7 & 8 S.B & G & 7 N.B.
ERECTION PLAN
Bancroft & Martin-Rolling Mills Company
South Portland 7, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E. C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO VERBAL
DWG NO 63-5-E1

MODERN BLUE PRINT CO

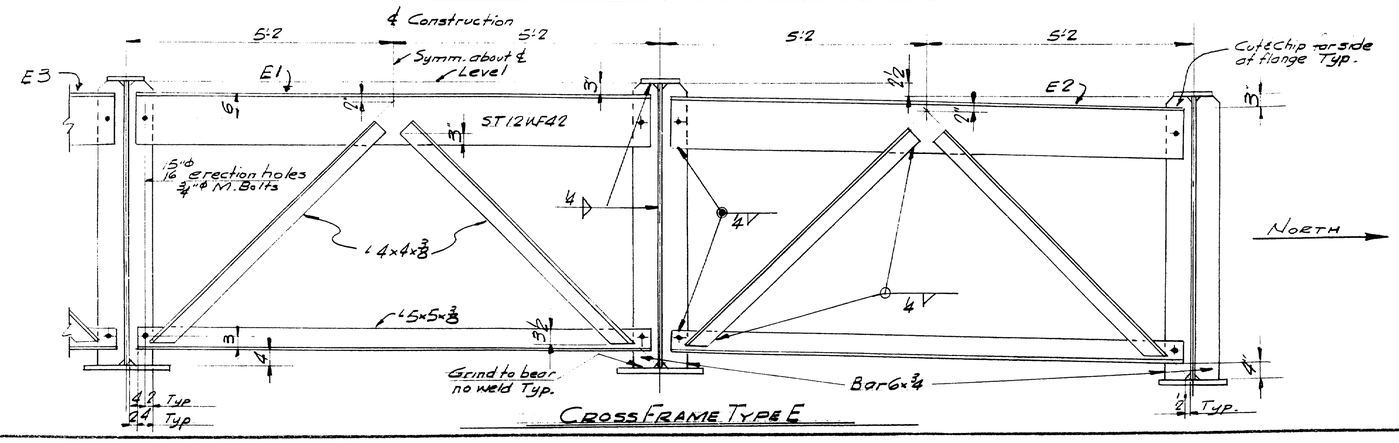




CROSS FRAMES TYPE G



CROSS FRAMES TYPE F



CROSS FRAME TYPE E

SPANS 6-7 & 8-5 B & G & 7 NB

TYPICAL CROSS FRAMES

Bancroft & Martin-Rolling Mills Co. company
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

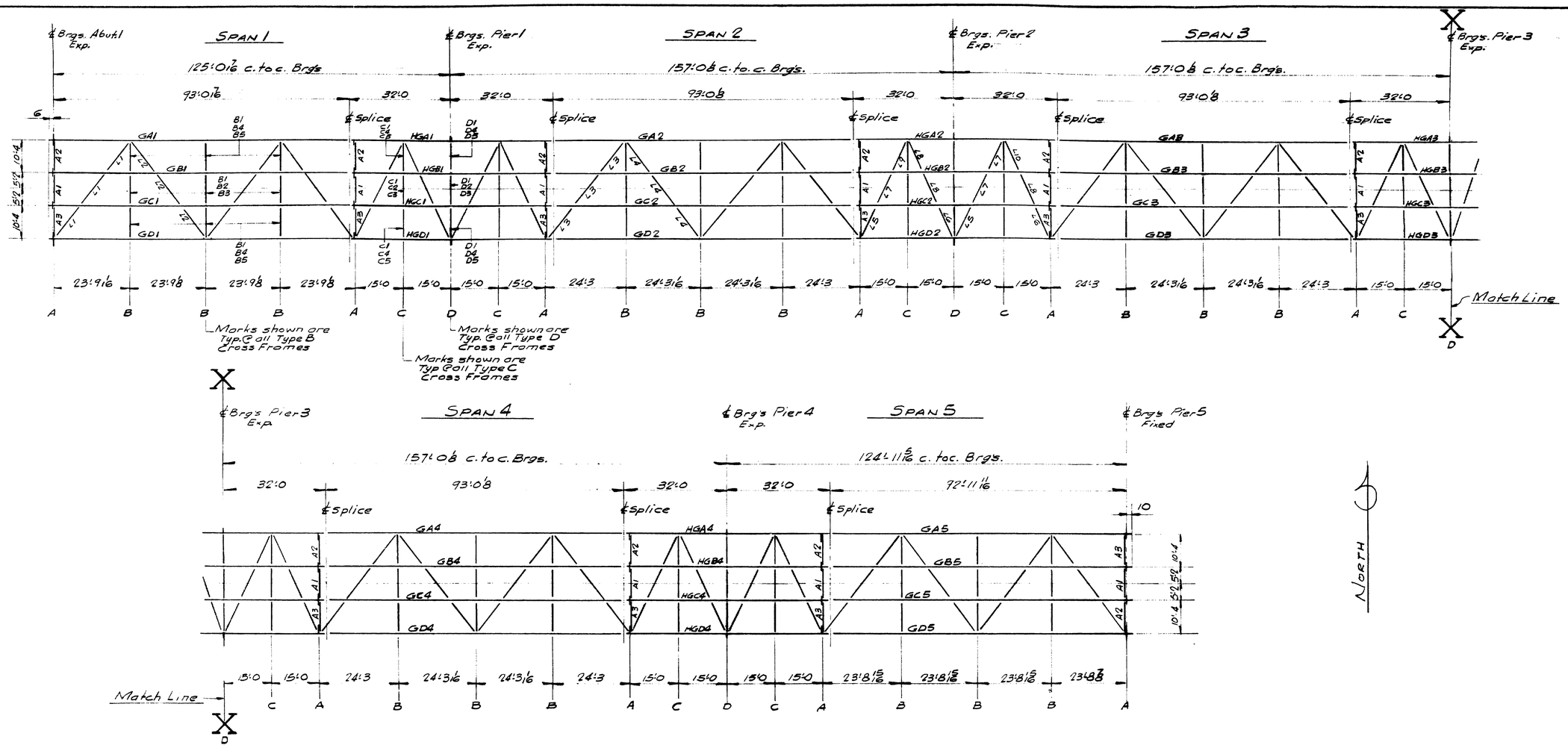
ORDER NO. VERBAL DWG. NO. 63-5-E2

DRAWN	1-24-63	J.P.F.
RE-SION		
REVISION		
REVISION		

APP 2-19-63

(L)

[redacted]



TYPICAL ERECTION PLAN - SOUTH BOUND & NORTH BOUND BRIDGES

SOUTH BOUND: Suffix SB to be added to all Marks
NORTH BOUND: Suffix NB to be added to all Marks
Dimensions along steel

SHOP CONN: Welded
FIELD CONN:
Splices - 7/8" ϕ H.S. Bolts
Cross Frames & Bracing - Welded
SHOP PAINT: Red Lead per State of Maine specs.

GENERAL NOTES

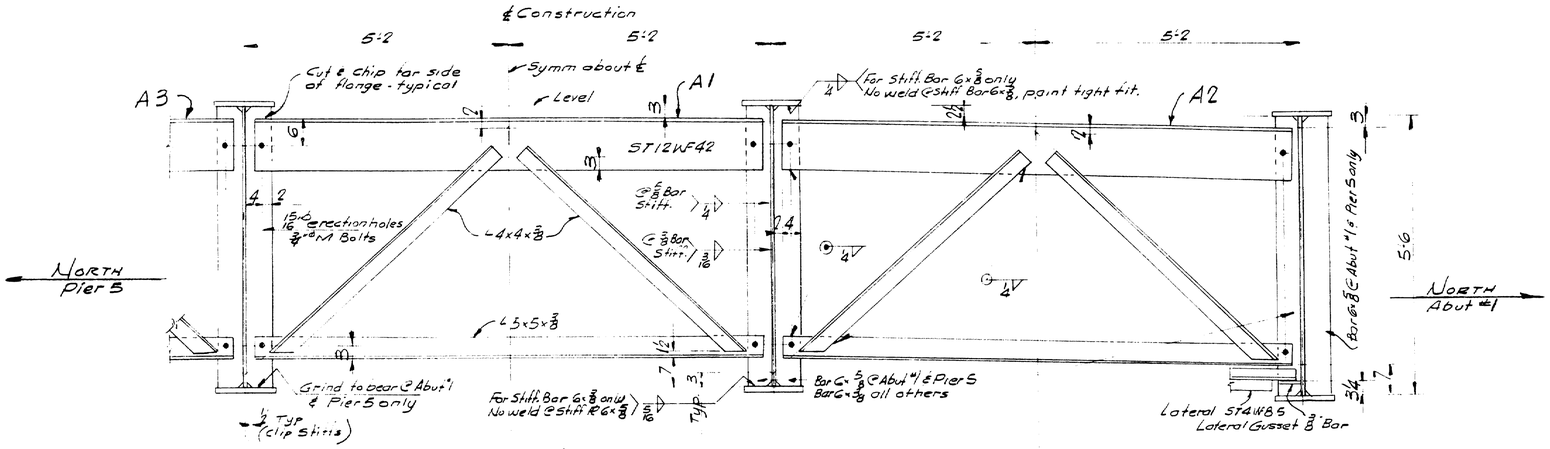
1. Steel for flange plates - web plates - splice plates & bearing stiffeners shall conform to A.S.T.M. Desig. A-441. All other steel shall conform to A.S.T.M. Desig. A7 or A36. High Strength Bolts A 325 - Pedestal Pins A 235 Class C1 or A108 Grade 1016 to 1030 inclusive.
2. Girders to be cambered as detailed.
3. Welds for flange plate & web plate butts, web to flange fillets & bearing stiffeners to web fillets shall be Submerged Arc - Linde Air Prod. Co. Unionmelt 5/32 "ϕ 29 wire Grade-50 Melt (Flux)
4. The following non-destructive tests of the welded steel girders will be required.
   A: Radiographic testing of shop butt welds.
   B: Magnetic particle testing of shop welds, girder webs to flanges & bearing stiffeners to girder webs.
   For additional information see supplemental specifications. and special Provisions.
5. Flanges & webs are to be butt welded & inspected in accordance with the above specifications prior to being fillet welded to each other.
6. Holes in field splices of continuous girders are to be sub-punched (or sub-drilled) and reamed while assembled in the shop and connecting parts to be match marked & bolted for shipment. (Bridges are on constant grade)

DRAWN	2-8-63	J.P.F.
REVISION		
REVISION		
REVISION		

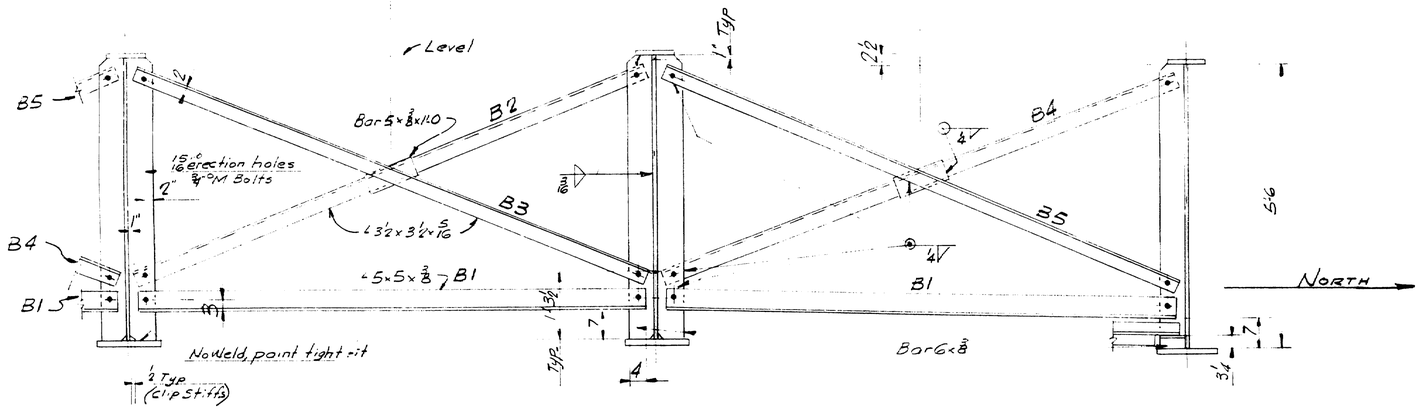
APP. 3-29-63

SPANS 1 TO 5 S.B. & N.B.
TYPICAL ERECTION PLAN
Bancroft & Martin Rolling Mills Company
South Portland, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO VERBAL DWG NO. 63-5-E3

MODERN BLUE PRINT CO



CROSS FRAMES TYPE A



CROSS FRAMES TYPE B

Note: Welding - stiffeners to girders is typical for intermediate stiffeners @ 66 x ½ web ht.

SOUTH BOUND: Suffix S.B to be added to all Marks.
NORTH BOUND: Suffix N.B to be added to all Marks.

SPANS 1 TO 5 S.B. & N.B.

TYPICAL CROSS FRAMES - TYPES A & B

Bancroft & Martin Rolling Mills Company
Works at Rumford, Maine

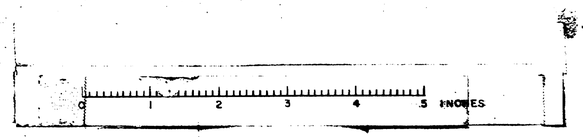
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

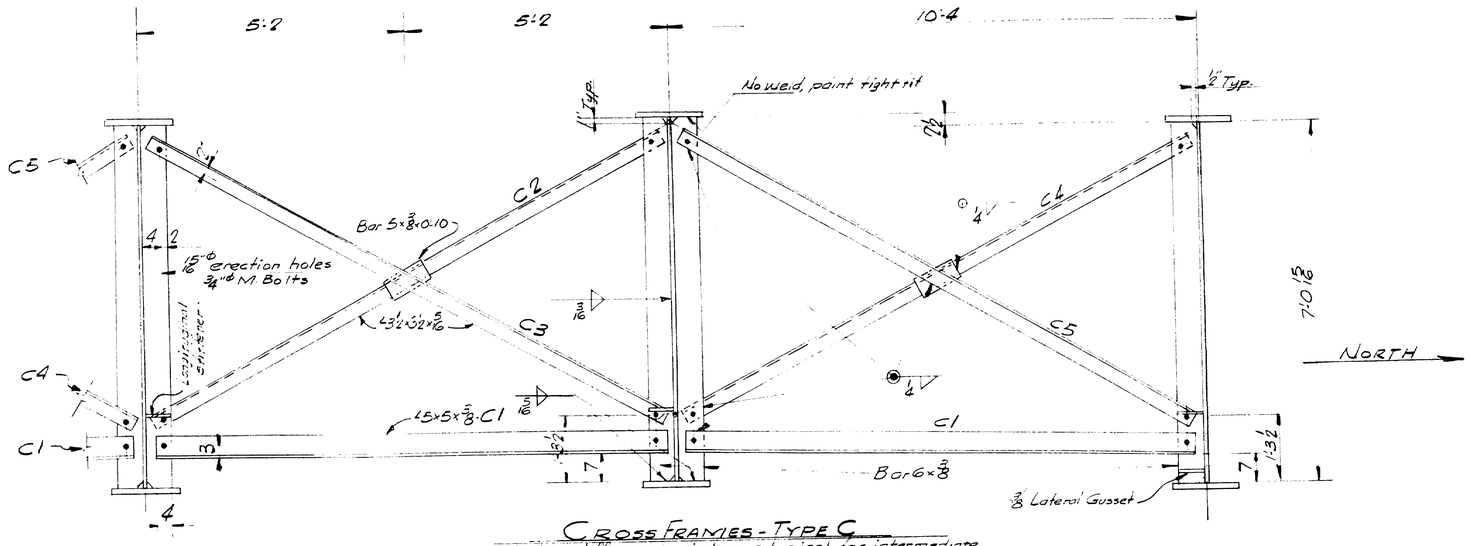
ORDER NO. VERBAL B.M.C. NO. 63-5-E4

DRAWN	2-8-63	J.P.F.
REVISION		
REVISION		
REVISION		

ADP 3-27-63

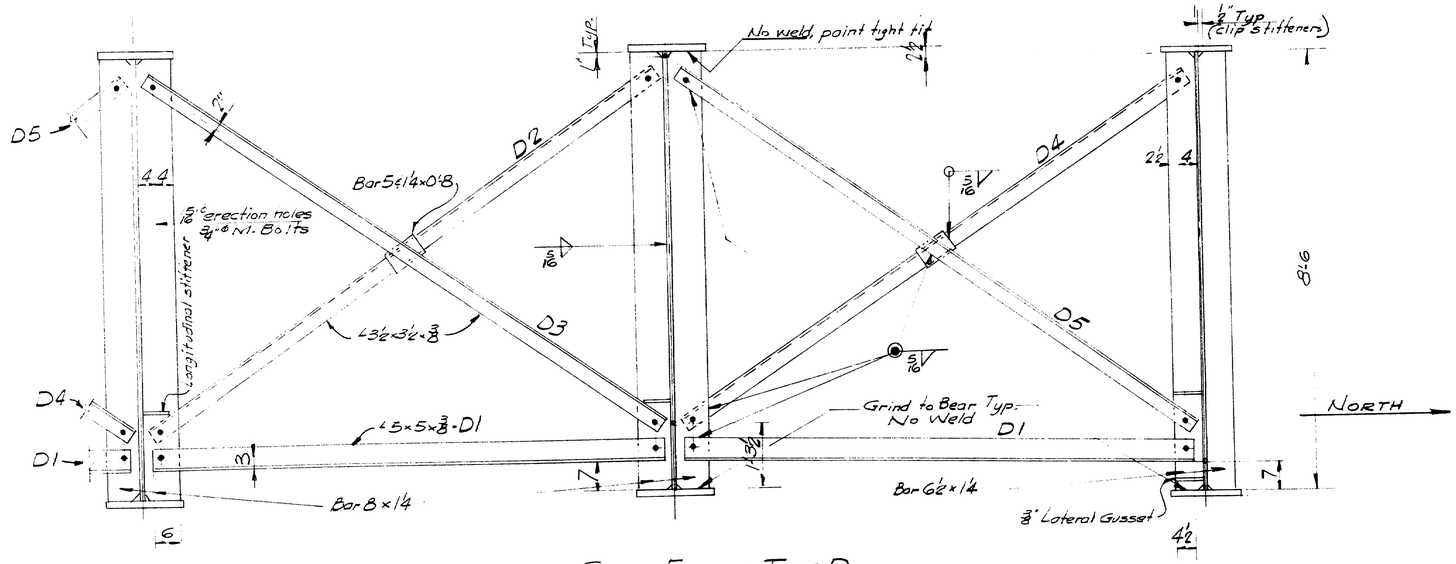


℄Construction



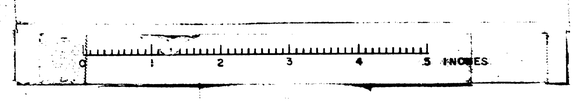
CROSS FRAMES - TYPE C

Welding stiffeners to girders is typical for intermediate stiffeners & variable depth web plates between field splices



CROSS FRAMES - TYPE D

SOUTH BOUND: Suffix S B to be added to all Marks
NORTH BOUND: Suffix N.B. to be added to all Marks



SPANS 1 TO 5 S.B. & N.B.

TYPICAL CROSS FRAMES - TYPES C & D

Bancroft & Martin Rollway Mills Company
South Portland, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

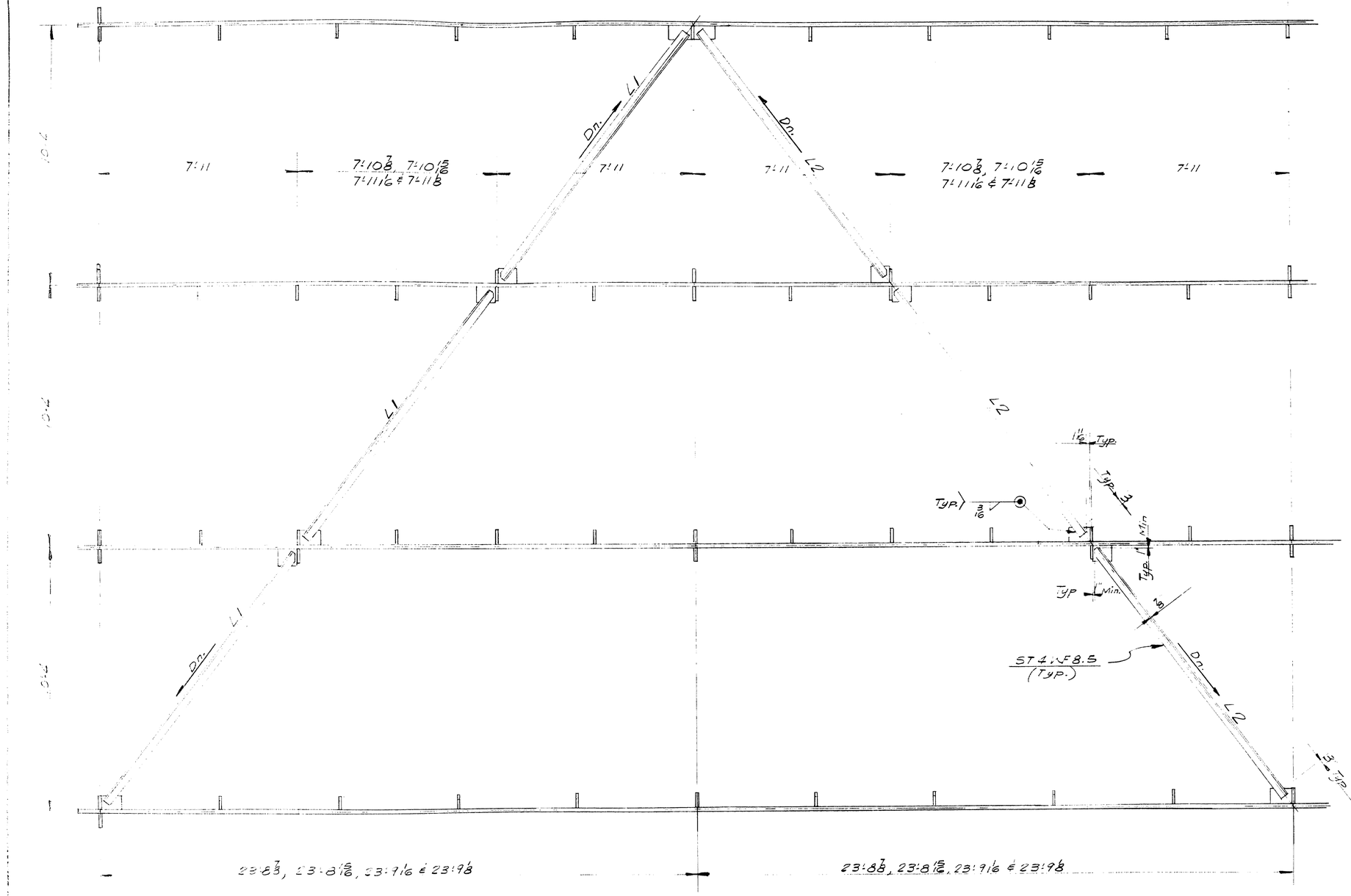
CUSTOMER E. C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 63-5-E5

DRAWN	2-12-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP'D 3-21-63

(1)



SOUTH BOUND: Suffix SB to be added to all Marks
NORTH BOUND: Suffix NB to be added to all Marks

DRAWN	36-68	J.P.R.	
REVISION			
REVISION			
REVISION			

SPANS 1 TO 5 SB. & N.B.

LATERAL BRACING

Bancroft & Martin Rolling Mill Company
South Portland, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

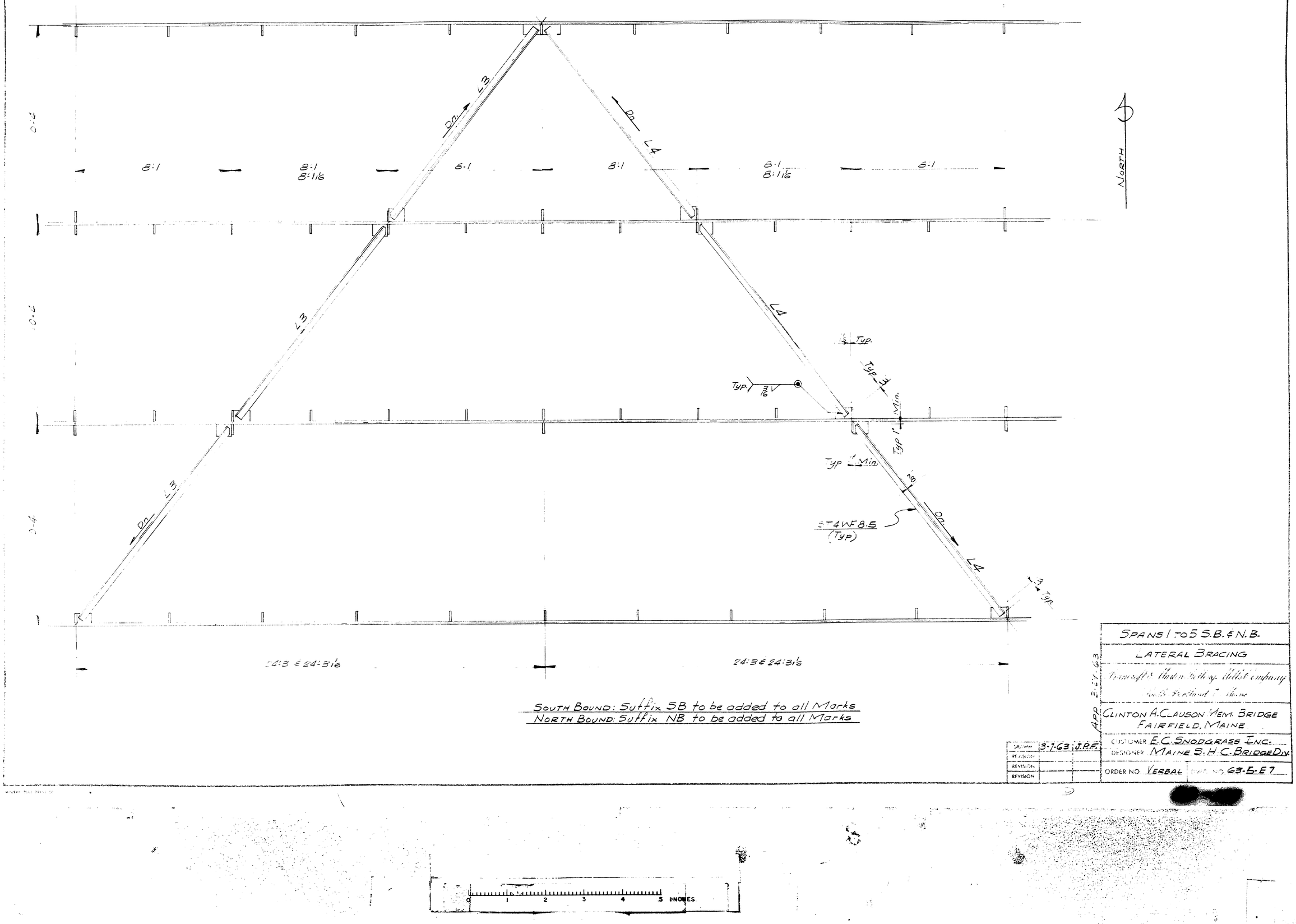
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 68-5-E6

APP'D 3-17-68

[redacted]

0 1 2 3 4 5 INCHES



SOUTH BOUND: Suffix SB to be added to all Marks
NORTH BOUND: Suffix NB to be added to all Marks

SPANS 1 TO 5 S.B. & N.B.

LATERAL BRACING

Consulting Engineering Division

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

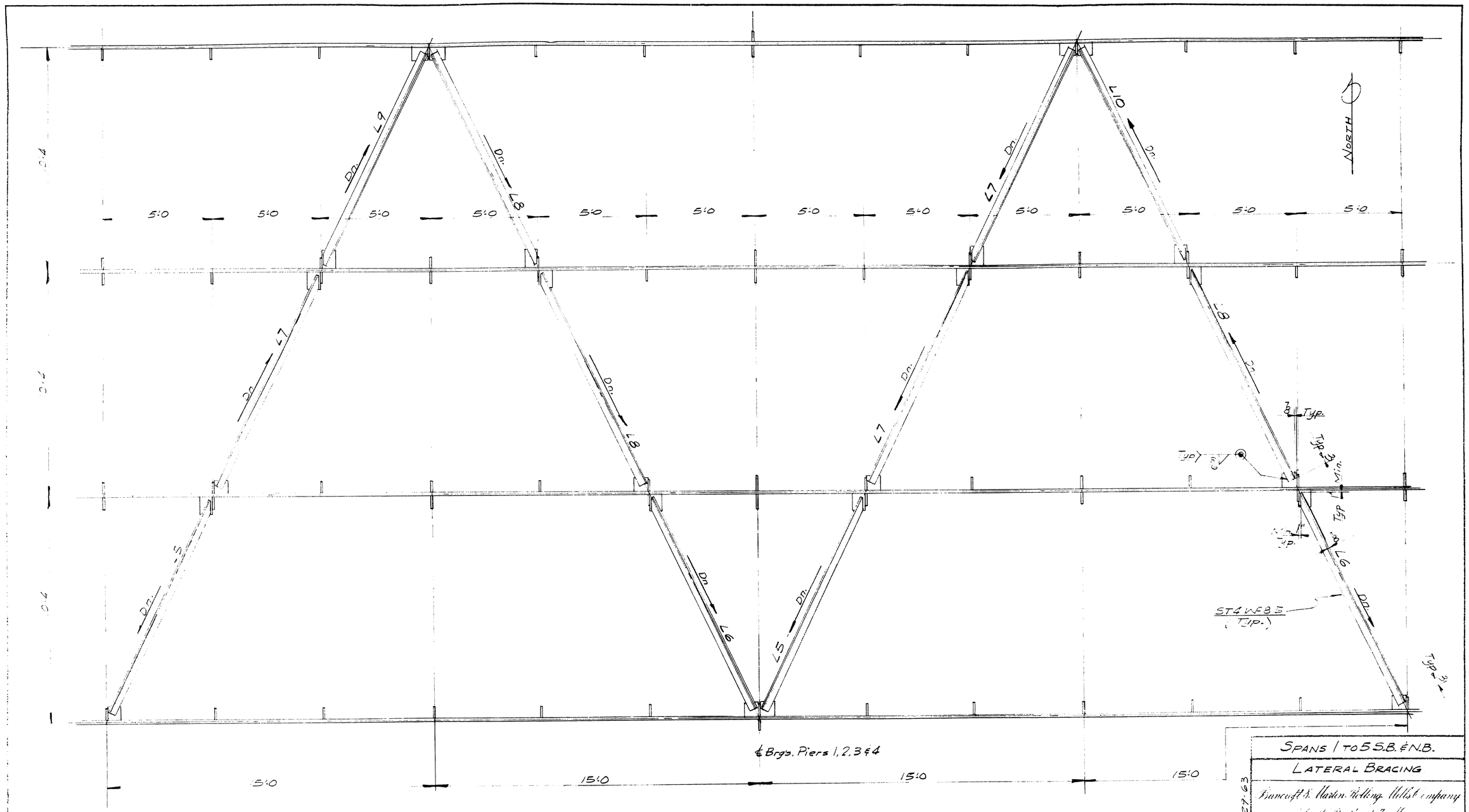
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 63-E-E7

DRAWN	3-7-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP. 3-27-63

0 1 2 3 4 5 INCHES

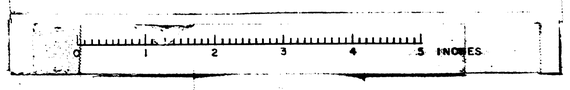


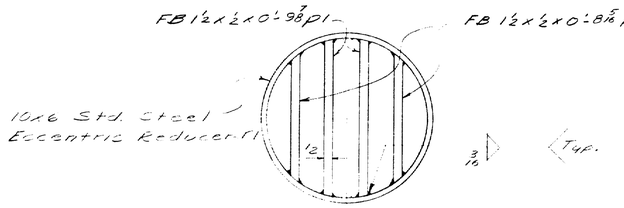
SOUTH BOUND: Suffix SB to be added to all Marks
NORTH BOUND: Suffix NB to be added to all Marks

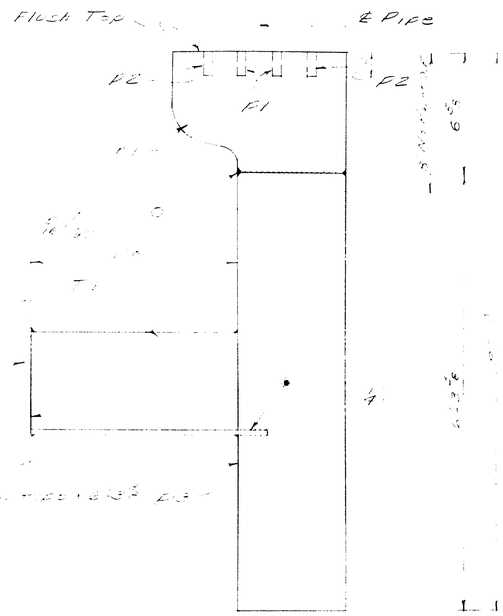
SPANS 1 TO 5 S.B. & N.B.
LATERAL BRACING
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO VERBAL DWG. NO. 63-5-E8

DRAWN	3-7-63	J.P.F.
REVISION		
REVISION		
REVISION		

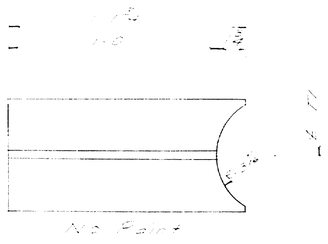
APP. 3-27-63



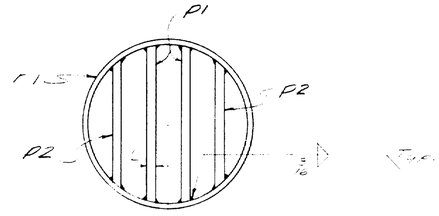


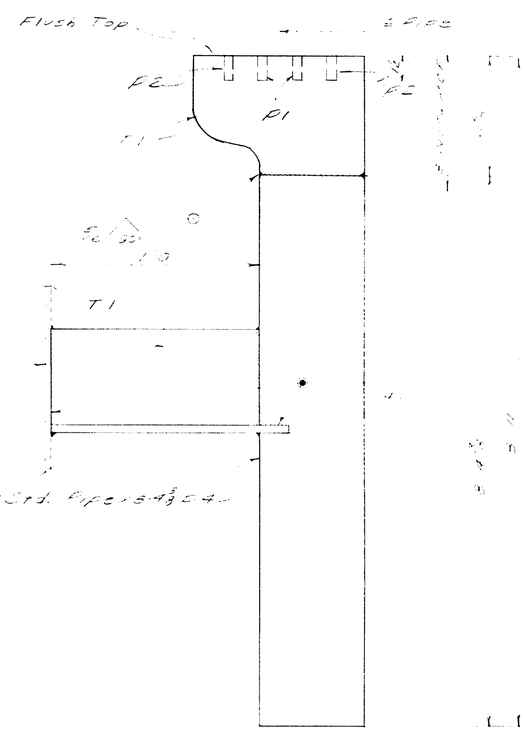


DRAIN DR1 - 120 REQ'D.



ST 6 WF 13.5 x 1-1⅞ - T1 - 152 REQ'D





DRAIN DR2 - 32 REQ'D.

NOTE: SEE STATES DWGS. FOR LOCATING DRAINS

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
DR1	120		Shop Assy.			
DR2	32		do			
T1	152		ST 6 WF 13.5	1	1⅜	
	304	P1	FB 1½ x ¼	0	9⅜	
	304	P2	do	0	8⅝	
	120	T3	6 Std. Pipe	0	5⅜	
	32	T4	do	0	4⅜	
	152	T1	10 x 6	0	7	10x6 Std. Steel Eccentric Reducer Wt. = 12.0 #

BILL OF MATERIAL — DWG. NO. 63-5-D1

CONSTRUCTION REVISED
PRO CONTRACTS REVISED
AS BUILT
NOT APPROVED REVISED (SEE LEAD)

SEE DWG. SHEETS OF 32

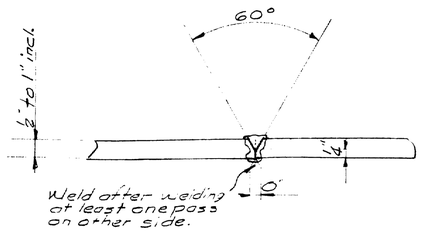
DRAIN DETAILS

CLINTON A. CLAUSON MEMORIAL
ST. LAWRENCE RIVER REVERSIBLE RIVER

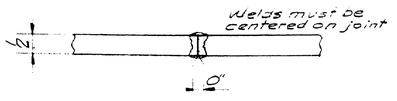
DRAWN	W.P. GATES	CONSTR. E. C. ENDSGRASS
TRACED		DESIGN ME S. H. C.
CHECKED		ORDER NO.: ERDAL DWG. NO. 63-5-D1
APPROVED		

55-109

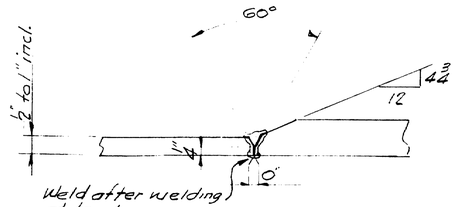
0 1 2 3 4 5 INCHES



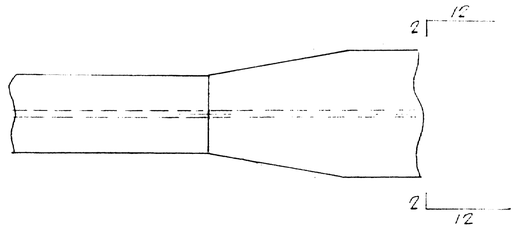
WA



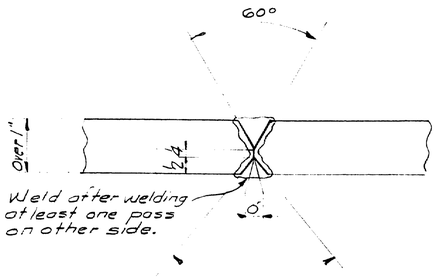
WD



WB



FLANGE JOINTS @ WIDTH CHANGE



WC

WELDING NOTES

1- Welds for flange plate & web plate butts, web to flange fillets & bearing stiffeners to web fillet shall be Submerged Arc - Linde Air Prod. Co. Unionmelt 5/32" #29 wire Grade - 50 Melt (Flux)
2- The following non-destructive tests of welded steel girders will be required
   A. Radiographic testing of shop butt welds.
   B. Magnetic particle testing of shop welds, girder webs to flanges & bearing stiffeners to girder webs,
   For additional information see supplemental specifications & Special Provisions
3- Flanges & webs are to be butt welded & inspected in accordance with the above specifications prior to being fillet welded to each other.
4- All butt welds in web Pls & flange Pls are to be ground flush.

DRAWN	1-25-63	J.P.F.
REVISION	2-21-63	J.P.F.
REVISION		
REVISION		

APP. 4-17-63

SPANS 1 TO 8 S.B. & 1 TO 7 N.B.

WELDING DETAILS

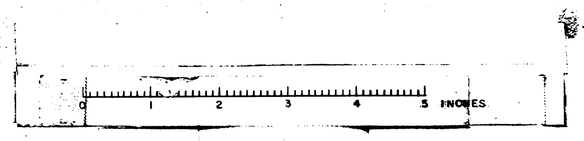
Bancroft & Martin Tilting Wells & company
South Portland, Maine

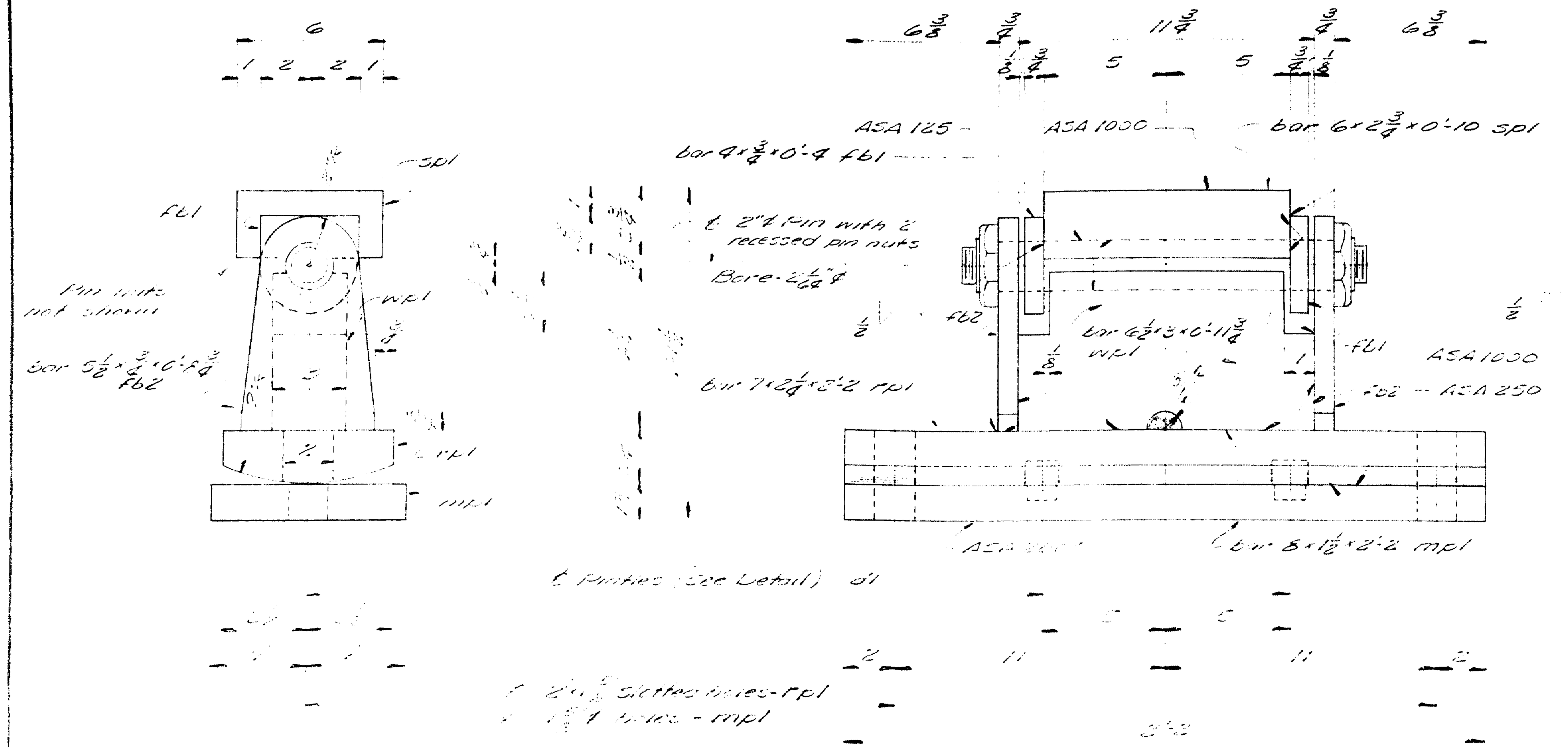
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL D.W.G. NO 63-5-W1

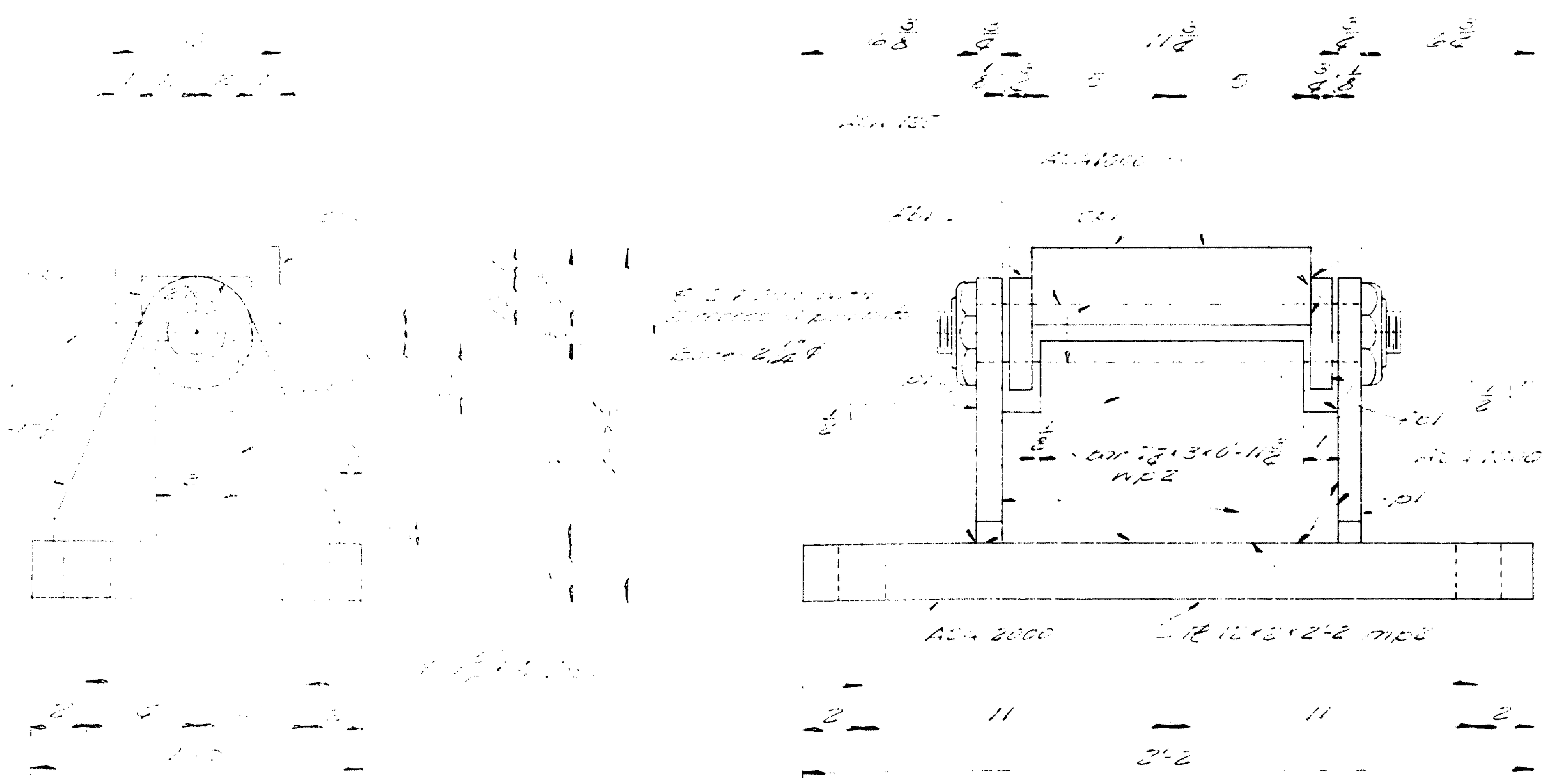
[redacted]





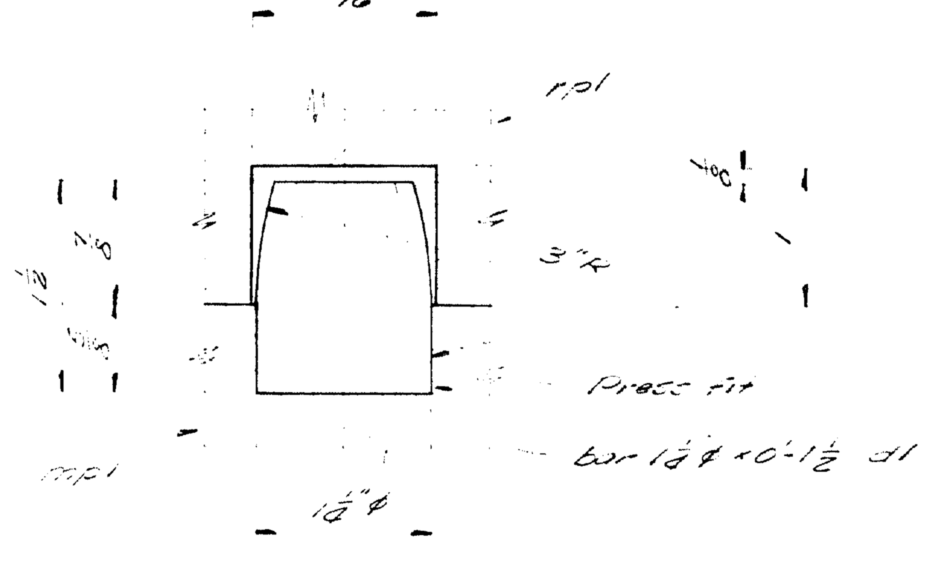
EXPANSION PEDESTAL EP1 20 REQ'D.

4 each required @ Pier 5, Span 6 N.B.
Pier 6, Span 7 N.B.
Pier 5, Span 6 S.B.
Pier 6, Span 7 S.B.
Pier 7, Span 8 S.B.

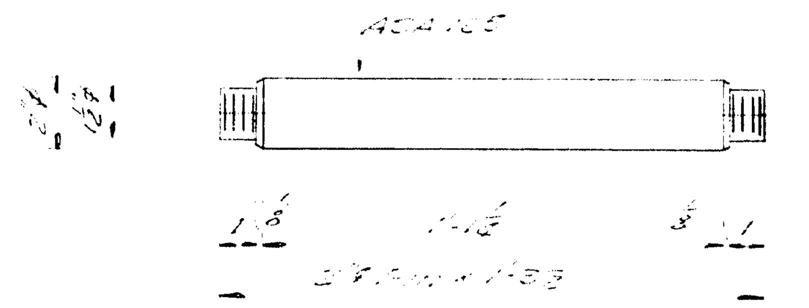


FIXED PEDESTAL FP1 20 REQ'D.

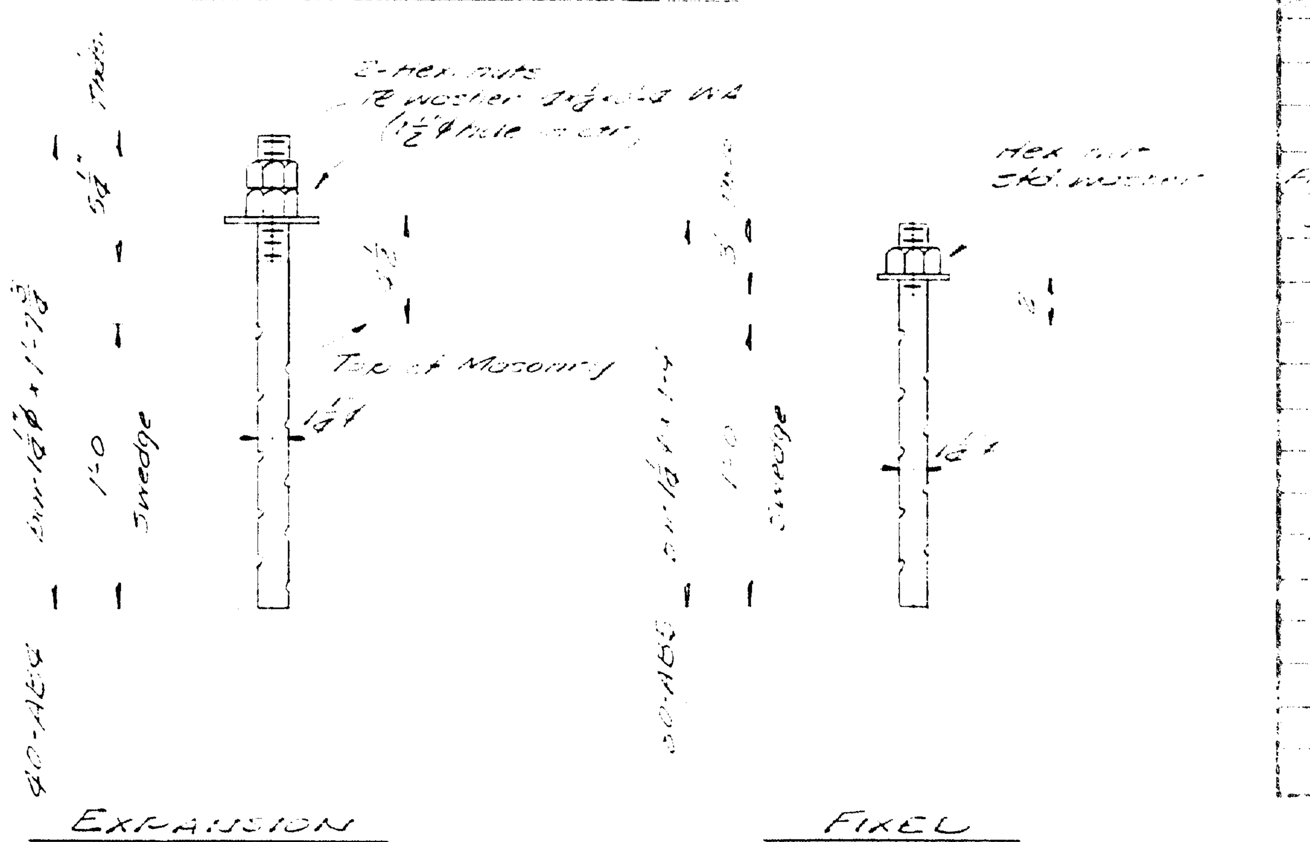
4 each required @ Pier 6, Span 6 N.B.
Abut 2, Span 7 N.B.
Pier 6, Span 6 S.B.
Pier 7, Span 7 S.B.
Abut 2, Span 8 S.B.



PINTLE DETAIL

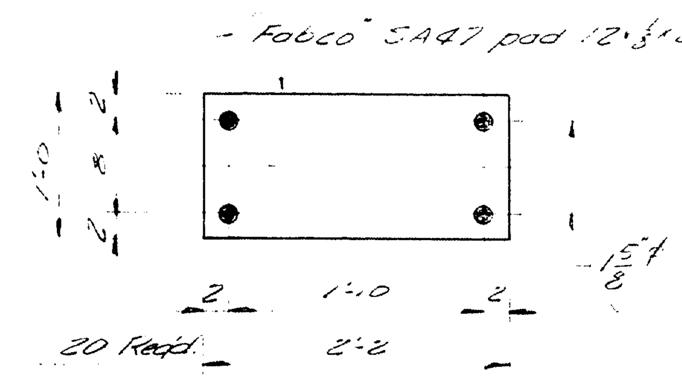


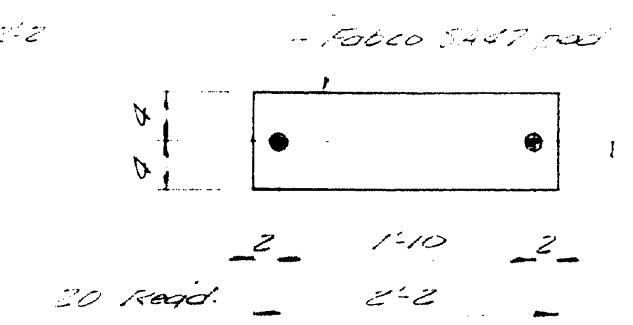
PIN DETAIL



EXPANSION FIXED

ANCHOR BOLTS





PAINT NOTE:
No paint on surfaces finished ASA125 or ASA250. Coat with hot mixture of white lead and tallow.
No paint on top surface and ¾" down from top surface spl
No paint on Anchor Bolts, oil threads.

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
			BILL OF MATERIAL				DWG. NO. 63-5-51
EP1	20		EXPANSION PEDESTAL				
	20	spl	bar 6×2¾	0	10		A36 field weld to Girder
	40	fb1	bar 4×¾	0	4		do
	20	wpl	bar 6½×3	0	11¾		do
	40	fb2	bar 5½×¾	0	8¾		do
	20	rpl	bar 7×2¼	2	2		do
	20	mpl	bar 8×1½	2	2		do
	40	d1	bar 1¼⌀	0	1½		A36
FP1	20		FIXED PEDESTAL				
	20	spl	bar 6×2¾	0	10		A36 field weld to Girder
	40	fb1	bar 4×¾	0	4		do
	20	wp2	bar 1½×3	0	11¾		do
	40	[illegible]	⌀ 9½×¾	0	10½		do
	20	mp2	⌀ 12×2	2	2		A36
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		A325 [illegible] or A108 Grade 1016 to 1030 incl.
	[illegible]	[illegible]	[illegible]				recessed nut for 2"⌀ pin
AB4	20		bar 1⅛	1	[illegible]		[illegible]
AB5	20		do	1	4		do
HN4	20		bar 6×⅛	0	4		
[illegible]	20		⅛ washer				
	20	[illegible]	[illegible]				
Pad	20		12×⅛	2	2		Fabco Pad SA47
do	20		8×⅛	2	2		do do do
							Reg. # 1563

NOTE: Allowance to be made for machining after cutting and [illegible].

ITEM [illegible]

SCALE AS SHOWN
SHOP CONNECTIONS [illegible]
FIELD CONNECTIONS [illegible]
HOLES [illegible]
PAINT [illegible] and as noted per [illegible] Specs.

SPANS 6, 7, 8 S.B.; 6, 7 N.B.

PEDESTAL DETAIL

[illegible] Martin Inc.
[illegible]

CLINTON A. CLAUSON MEMORIAL BRIDGES
FAIRFIELD AND BENTON, ME.

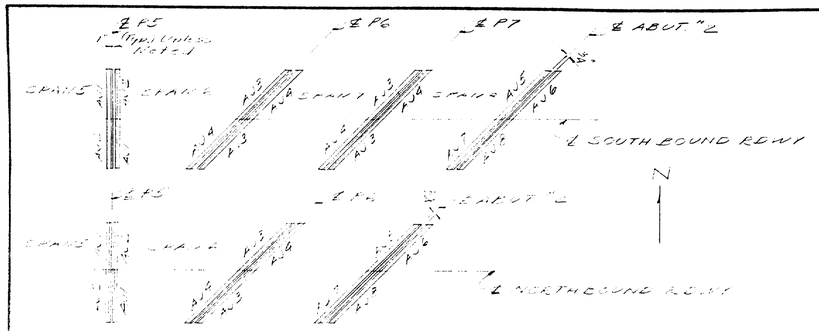
CUSTOMER ELLIS SNODGRASS, INC.
DESIGNER M.S.H.C. BRIDGE DIV.

DRAWN	1-18-63	H.L.
REVISION		
REVISION		
REVISION		

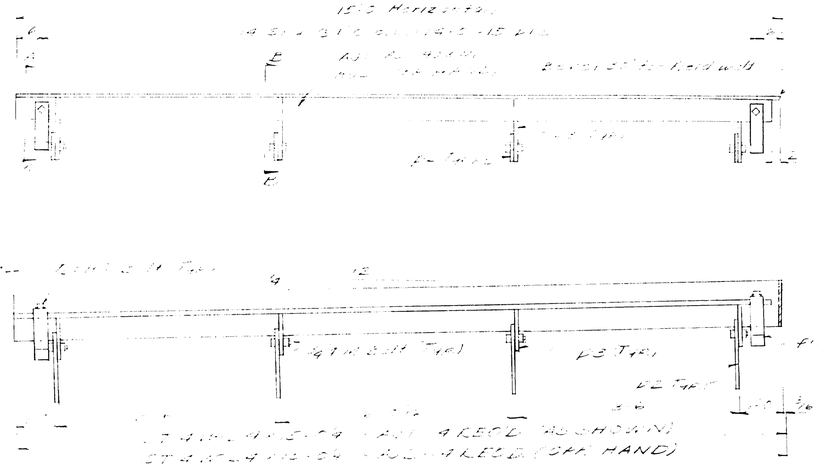
Approved [illegible]

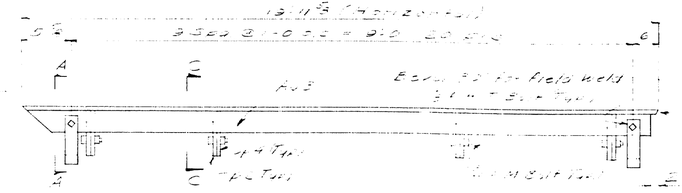
ORDER NO. Verbal DWG. NO. 63-5-51

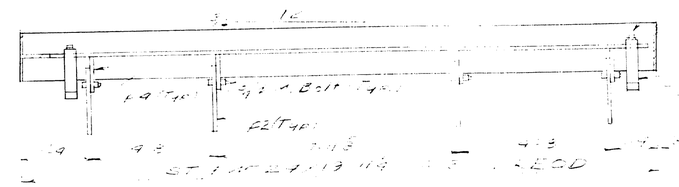
89-114

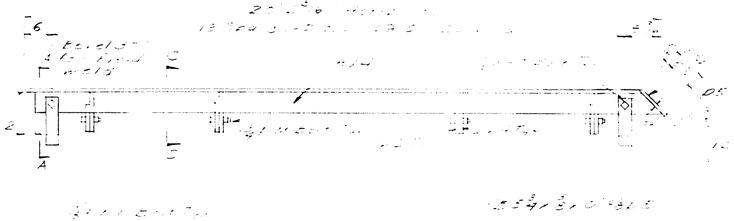


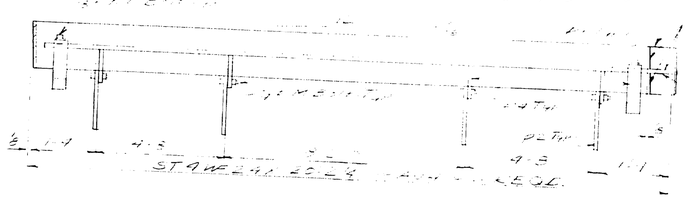
ARMORED JOINT ERECTION PLAN

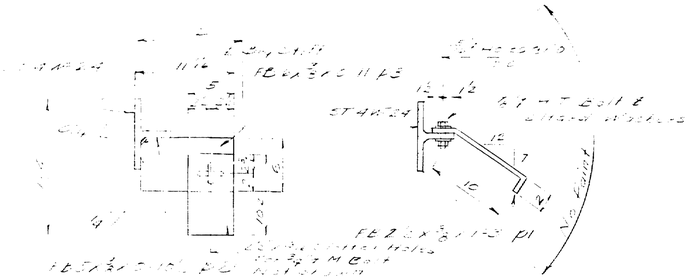




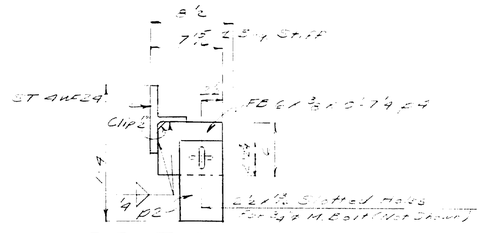








SECTION B-B SECTION A-A



SECTION C-C

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
AJ1	4		ST 4WF24	15 0		
AJ2	4		"	15 0		
AJ3	6		"	9 3		
AJ4	6		"	22 4		
	300		PL ½ x 5	1 5		BEND
	90		PL ½ x 7	0 10		
	12		PL ½ x 7	0		
	48		"	3 7		
	6		PL ½ x 5	1 3		
	50		L 4 x 3½ x ½	1		
	200		ST 4WF24	2		4 - 3/4"
	200		¾ Washer			HIGH Washer

SHOP CONNECTIONS: BOLTED WELDED
FIELD CONNECTIONS: WELDED
HOLES: REAMED
PAINT: SEE SPEC. FOR SHOP COAT

DETAIL SHEET 1 OF 2 SHEETS

ARMORED JOINT DETAILS

Owner: Mass. Dept. of Public Works
Bureau of Bridges

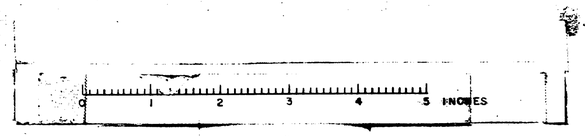
CLINTON-SUDBURY MEMORIAL BRIDGES OVER SUDBURY RIVER

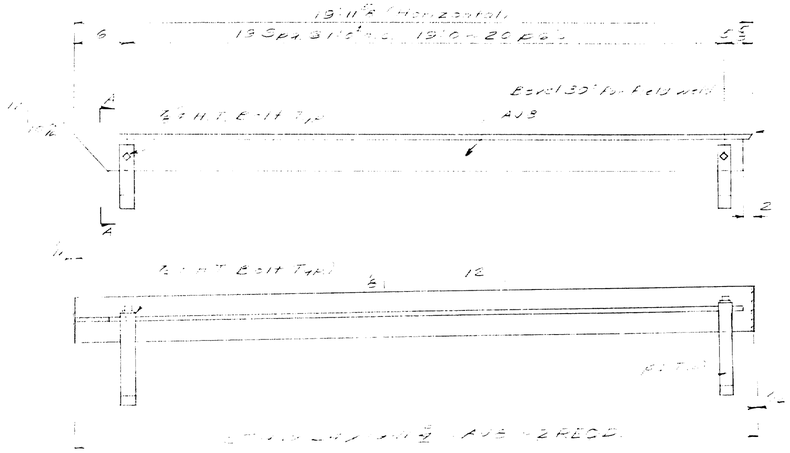
CUSTOMER E. L. WOODGRASS
DESIGNER [illegible]

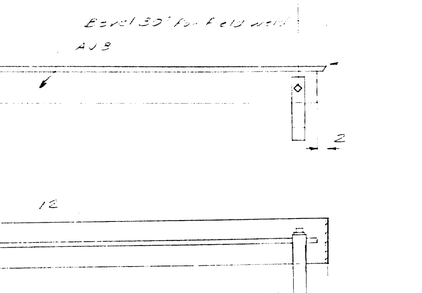
DRAWN	1-19-43	TFG
REVISION	2-15-43	TFG
REVISION		
REVISION		

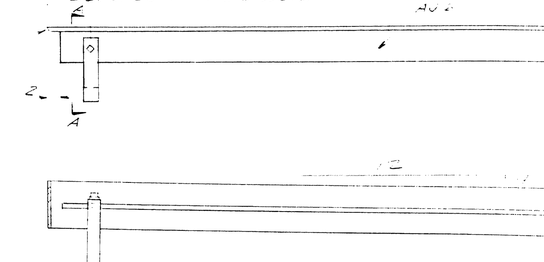
ORDER NO. [illegible] DWG. NO. 63-5-S2

63-112









SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
A-5	2		STRAIGHT	19	11⅞		
A-6	2		"	20	3⅝		
A-7	2		"	20	2¼		
A-8	2		"	19	1⅝		
	50	B6	PLATE ½		6		SEE B-6
	50	B7	"		3		" B-7
	2	C-1	ANGLE 3½ x 3½ x ⅜				
	4	A-3	" 5 x 3½ x ⅜	7	4½		
	2	A-10	"	1	9		
	2		PLATE ½		5		
	100		BOLT ⅞				W/ NUT & WASHER
	50		ANCHOR BOLT 1¼				W/ NUT & WASHER

ERECTION MARKS STAMPED
FIELD RIVETS WHERE
FOR ½" PLATE
PAINT AS SPECIFIED FOR STEEL

SEE SHEET NO. 1 OF 2 SHEETS

ARCH SECTION DETAILS

Bureau of Highways
State of Illinois

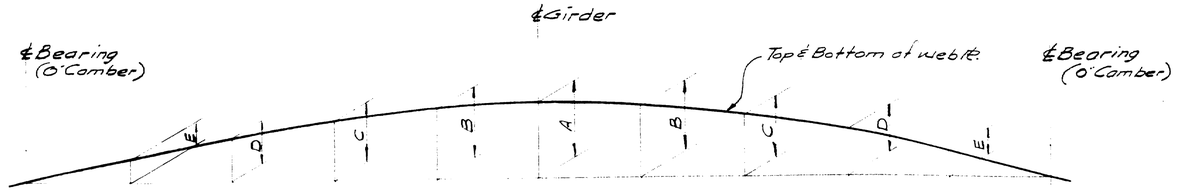
CLINTON - CANTON REVERSAL
BRIDGES OVER KASKASKIA RIVER

DESIGNED ME
DRAWN T.Z.H. TFG
CHECKED Z.T.H.
REVISED
REVISED

ORDER NO. VERBAL DWG. NO. 63-5-53

09-118

0 1 2 3 4 5 INCHES



GA6SB	10@ 10'-4 5/16" = 103'-7 7/16"
GB6SB	10@ 9'-5 7/16" = 94'-6 1/2"
GC6SB	10@ 8'-6 9/16" = 85'-5 5/8"
GD6SB	10@ 7'-7 1/16" = 76'-4 1/16"
GA6NB	10@ 12'-3 5/8" = 122'-7 7/16"
GB6NB	10@ 11'-4 1/2" = 113'-6 1/2"
GC6NB	10@ 10'-5 3/8" = 104'-5 5/8"
GD6NB	10@ 9'-6 7/16" = 95'-4 1/16"
Others	10@ 10'-10 3/16" = 109'-0 1/16"

Girder	Camber Ordinate @ E	D	C	B	A	Max. Camber Tolerance @ A
GA6SB	1"	1 1/8"	2 1/16"	3"	3 1/8"	± 3/8"
GB6SB	13/16"	1 7/16"	2 1/8"	2 1/2"	2 5/8"	± 5/16"
GC6SB	5/8"	1 3/16"	1 5/8"	1 7/8"	2"	± 5/16"
GD6SB	1/16"	3/4"	1 1/16"	1 1/4"	1 5/16"	± 1/4"
GA6NB	1 9/16"	2 3/8"	3 3/8"	4 1/2"	4 11/16"	± 7/16"
GB6NB	1 1/8"	2 1/2"	3 5/16"	3 7/8"	4"	± 3/8"
GC6NB	1 1/16"	1 13/16"	2 5/8"	3 1/16"	3 3/16"	± 3/8"
GD6NB	13/16"	1 5/16"	2 1/8"	2 1/16"	2 1/16"	± 5/16"
Spans 7 & 8 SB & Span 7 NB → Others	1 3/16"	2 1/8"	2 7/8"	3 3/8"	3 1/2"	± 3/8

Combers shown are finished combers.
No allowances shown for shrinkage due to welding.
The ends of girders shall be cut normal to flanges unless otherwise detailed.

SPANS 6-7 & 8 SB & 6 & 7 N.B.

CAMBER DIAGRAM

Bancroft & Martin Rolling Mill Company
South Portland, Maine

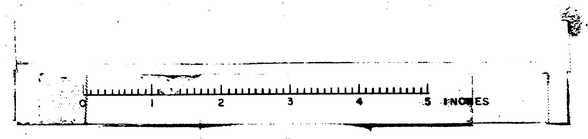
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

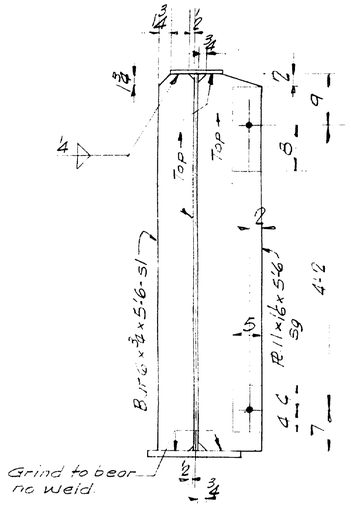
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO VERBAL DWG. NO 63-5-S4

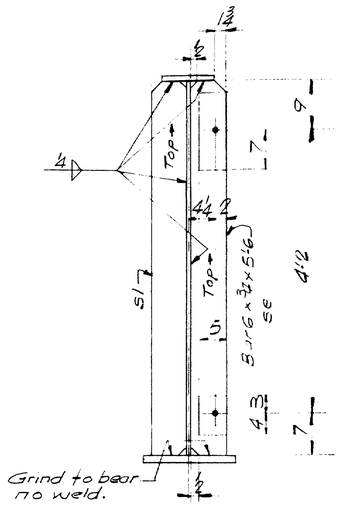
APP'D 1-17-63

DRAWN	1-24-63	I.P.F.
REVISION		
REVISION		

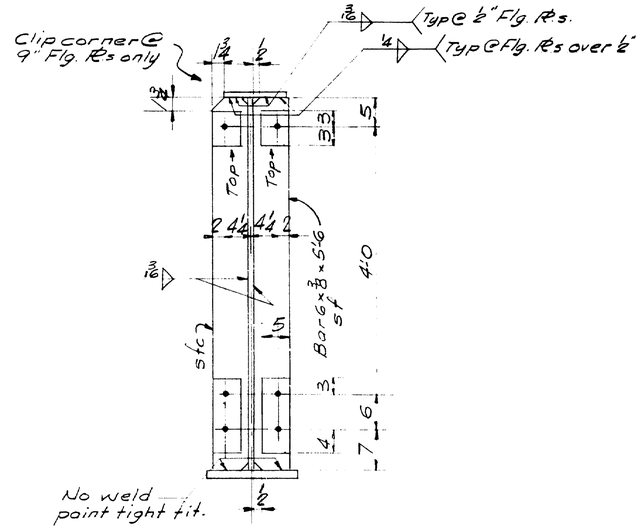




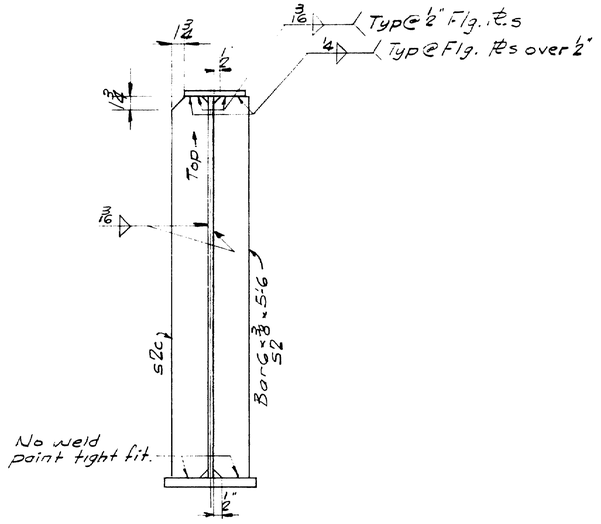
Typ. Detail @ s1 & sg



Typ. Detail @ s1 & se



Typ. Detail @ sf & sfc



Typ. Detail @ s2 & s2c (intermediate stiffeners)

NOTES

Holes 13/16" Φ

There shall be No Point N.S & F.S of stiffeners @ shaded areas.

See Note on Dwg W1 for welding of bearing stiffeners s1- sg & se

All stiffeners to be normal to flanges.

SPANS 6-7 & 8 S.B. & 6 & 7 N.B.

STIFFENER DETAILS

Bancroft & Martin Rolling Mill Company
South Portland, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.

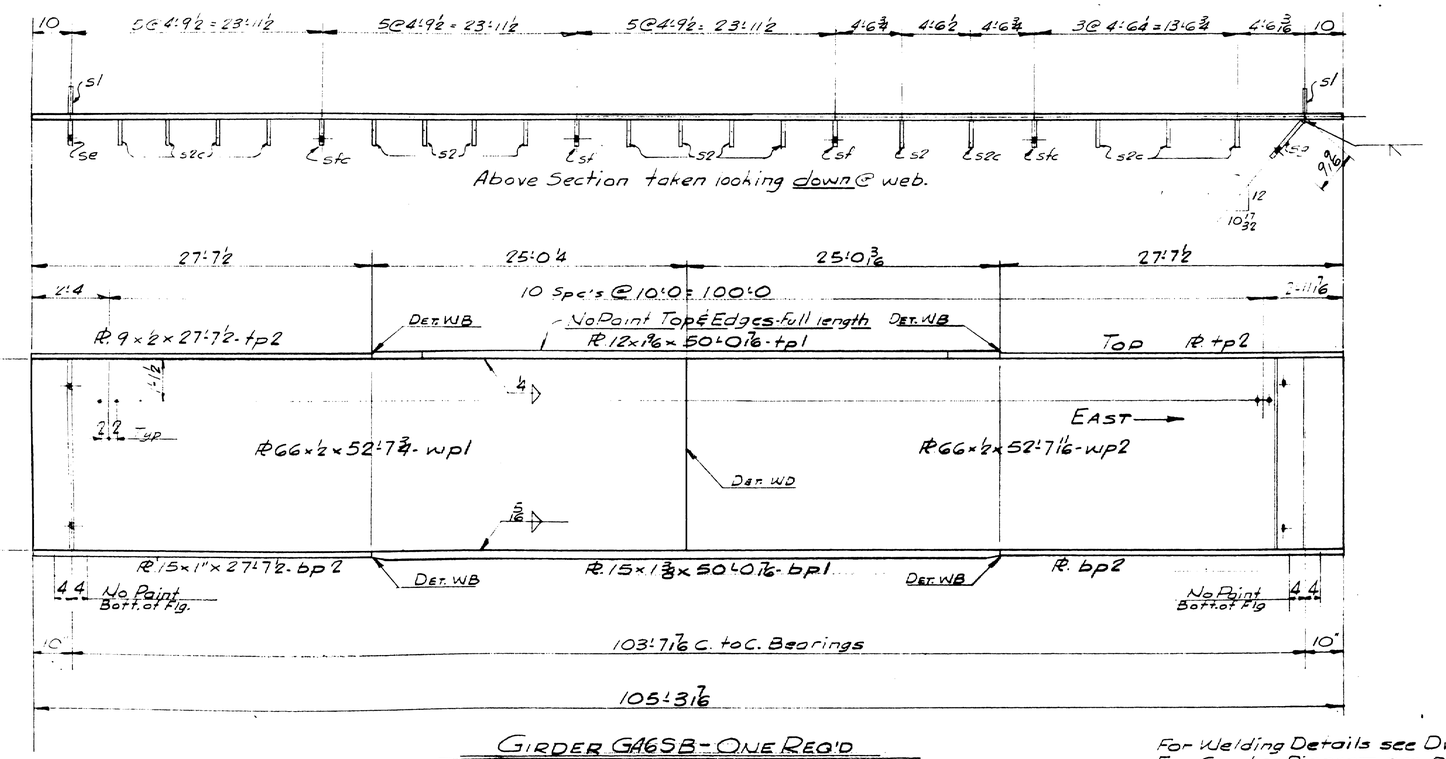
DESIGNER MAINE S.H.C. BRI.

ORDER NO. VERBAL SHOP NO 63-5-55

DRAWN	1-29-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP'D 2-14-63

[redacted]



GIRDER GA6SB - ONE REQ'D

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg S4.
For Stiffener Details see Dwg S5
For Stud Layout see Dwg. S24

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GA6SB	1		GIRDER	105 3 7/16	—	
	1	wp1	PL 66 × ½	52 7¾		
	1	wp2	Do	52 7 1/16		
	1	tp1	PL 12 × 9/16	50 0 7/16		
	2	tp2	PL 9 × ½	27 7½		
	1	bp1	PL 15 × 13/16	50 0 7/16		
	2	bp2	PL 15 × 1"	27 7½		
	2	s1	Bar 6 × ¾	5 6⅜		
	1	se	Do	5 6⅜		
	1	sq	PL 11 × 1/16	5 6⅜		
*	9	s2	Bar 6 × ¾	5 6		
*	8	s2c	Do	5 6		
*	2	sf	Do	5 6		
*	2	sfc	Do	5 6		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16 ϕ
PAINT: Per Maine Specs & as noted

SPANS 6-7 & 8 S. B. & 6 & 7 N. B.

GIRDER GA6SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

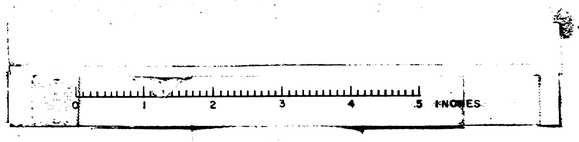
ORDER NO. VERBAL | DWG. NO. 63-5-S6

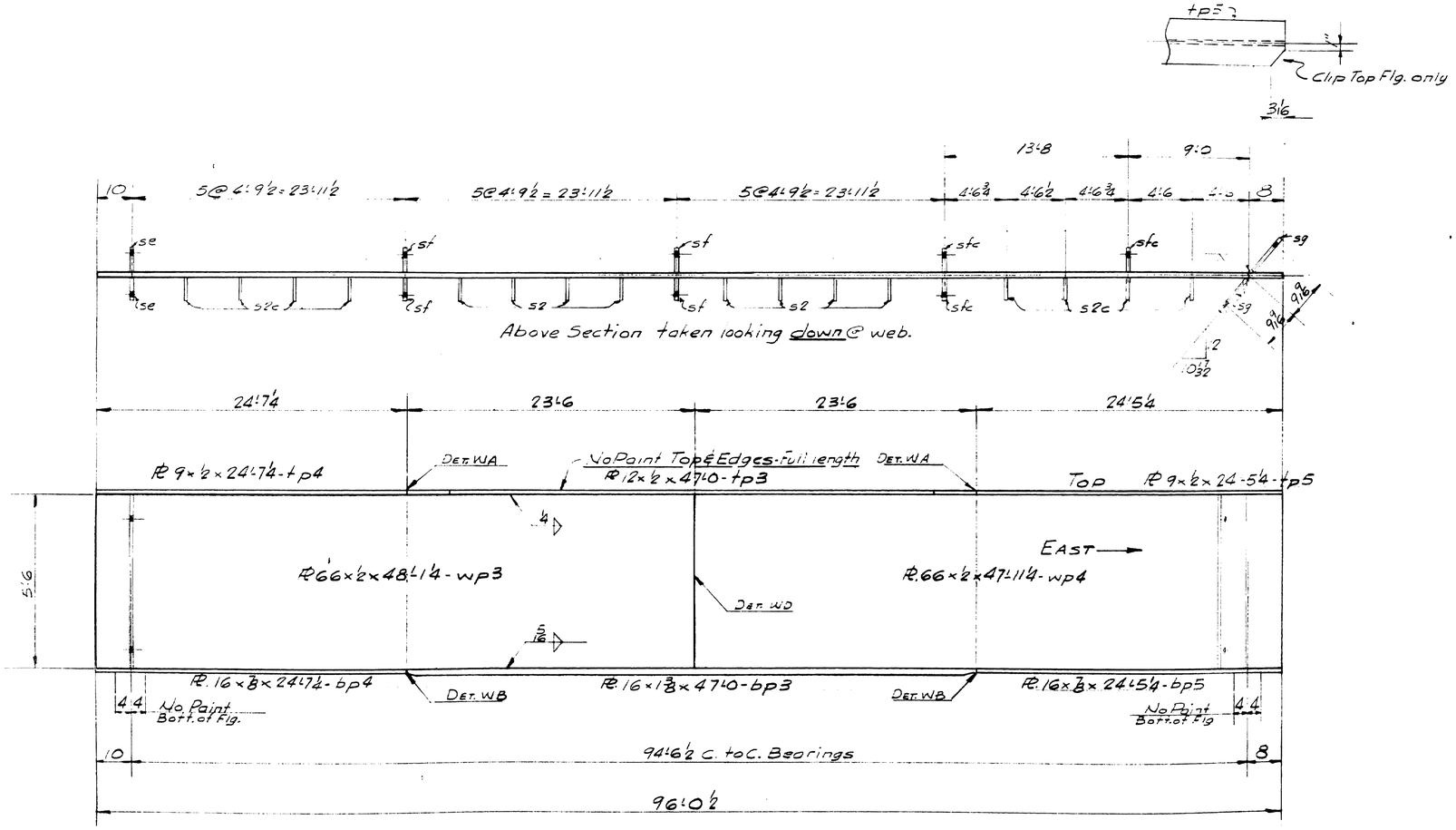
DRAWN	1-25-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP'D 2-19-63

(L)

39-116





GIRDER GB6SB - ONE REQ'D

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg S24

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
			BILL OF MATERIAL				DWG. NO 63-5-S7
GB6SB	1		GIRDER	96	0½	—	
	1	wp3	PL 66 × ½	48	1/4		
	1	wp4	Do	47	11/4		
	1	tp3	PL 12 × ½	47	0		
	1	tp4	PL 9 × ½	24	7/4		
	1	tp5	Do	24	5/4		
	1	bp3	PL 16 × 1⅜	47	0		
	1	bp4	PL 16 × ⅜	24	7/4		
	1	bp5	Do	24	5/4		
	2	se	Bar 6 × ¾	5	6/8		
	2	sg	PL 1'-0 × 1/16	5	6/8		
*	8	s2	Bar 6 × ⅜	5	6		
*	3	s2c	Do	5	6		
*	4	sf	Do	5	6		
*	3	stc	Do	5	6		
			All Mat. A.S.T.M. Desig A-441 unless noted				
			* A.S.T.M. Desig A7 or A36				
			STRUCTURAL STEEL ITEM 702-103B				

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16 ϕ
PAINT: Per Maine Specs 460s noted

SPANS 6-7 & 8 S.B. & 6-7 N.B.

GIRDER GB6SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

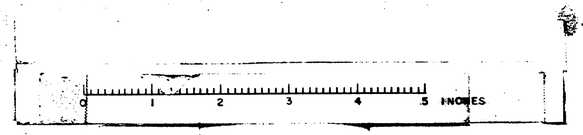
ORDER NO. VERBAL | DWG. NO. 63-5-S7

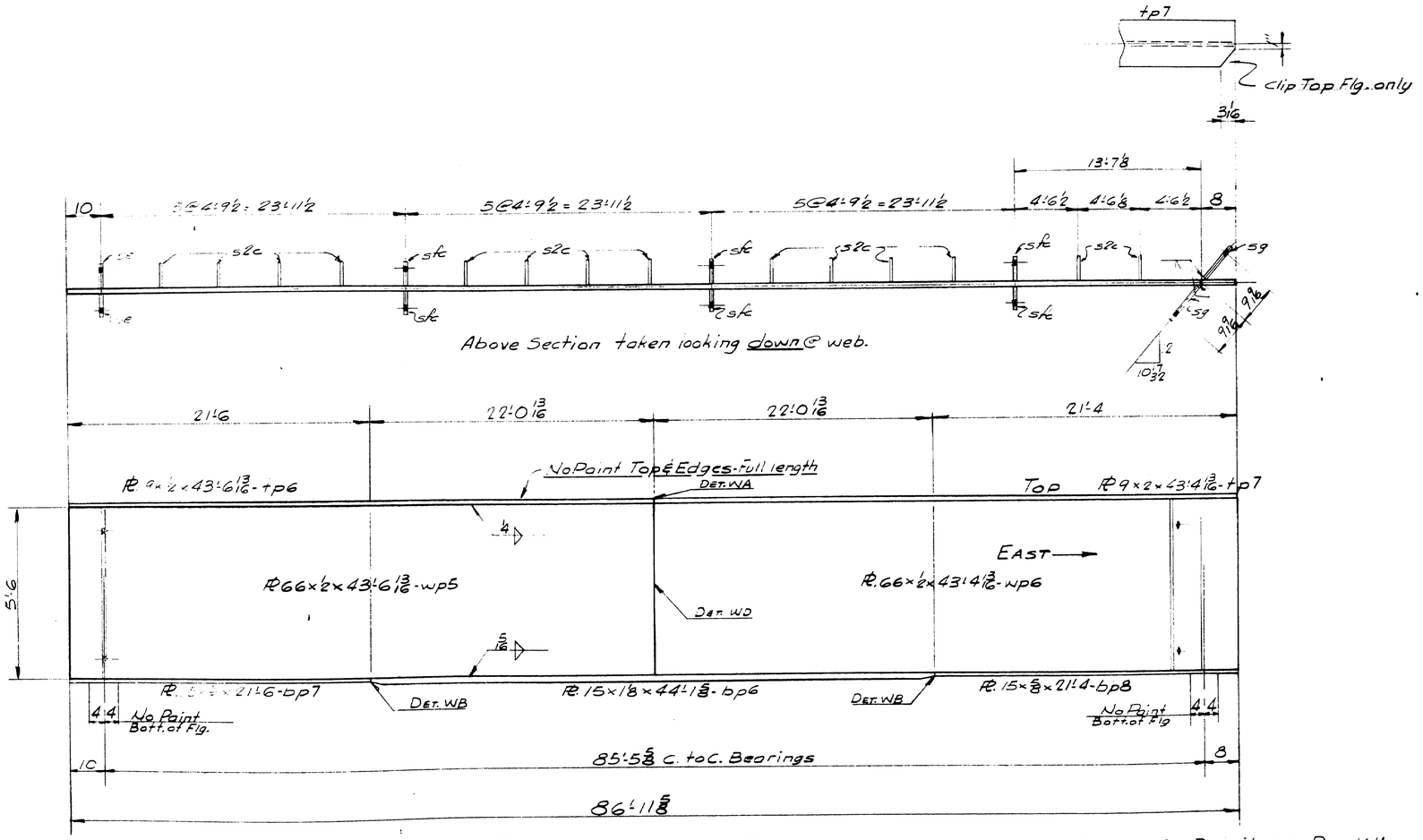
DRAWN	1-25-63	J.P.F.
REVISION		
REVISION		
REVISION		

ADD 2-7-63

(C)

89-117





GIRDER GC6SB - ONE REQ'D

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg. S24.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GC6SB	1		GIRDER	86 11 3/8	—	
	1	wp5	PL 66 x 1/2	43 6 13/16		
	1	wp6	Do	43 4 13/16		
	1	tp6	PL 9 x 1/2	43 6 13/16		
	1	tp7	Do	43 4 13/16		
	1	bp6	PL 15 x 1/8	44 1 1/8		
	1	bp7	PL 15 x 3/8	21 6		
	1	bp8	Do	21 4		
	2	se	Bar 6 x 3/4	5 6 1/8		
	2	sg	PL 11 x 1/4	5 6 1/8		
*	14	stc	Bar 6 x 3/8	5 6		
*	6	stc	Do	5 6		

All Mat. A.S.T.M. Desig A-441 unless noted

* A.S.T.M. Desig A7 or A36

STRUCTURAL STEEL ITEM 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16" Ø
PAINT: Per Maine Specs 405 noted

SPANS 6-7 & 8 S.B. & 6 & 7 N.B.

GIRDER GC6SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

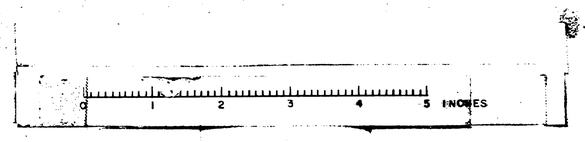
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

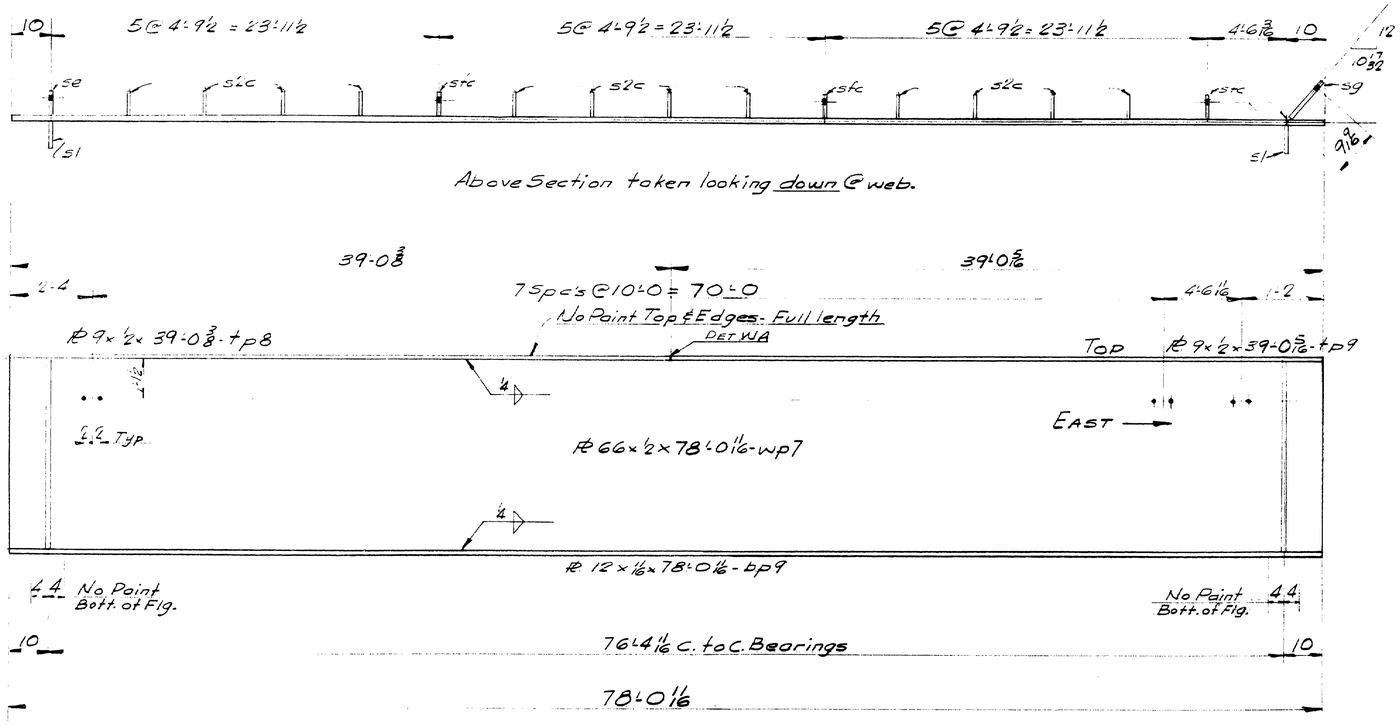
ORDER NO. VERBAL | DWG. NO. 63-5-58

APP 2-19-63

DRAWN	1-25-63	J.P.F.
REVISION		
REVISION		
REVISION		

89-118





GIRDER GD6SB - ONE REQ'D

For Welding Details see Dwg W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg S24.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GD6SB	1		GIRDER	78 0 1/16	—	
	1	wp7	PL 66 x ½	78 0 1/16		
	1	tp8	PL 9 x ½	39 0 3/8		
	1	tp9	Do	39 0 5/16		
	1	bp9	PL 12 x 1/16	78 0 1/16		
	2	s1	Bar 6 x ¾	5 6 3/8		
	1	s2	Do	5 6 3/8		
	1	s3	PL 11 x 1/16	5 6 3/8		
*	12	s2c	Bar 6 x ¾	5 6		
*	3	s1c	Do	5 6		

All Mat. A.S.T.M. Desig. A-441 unless noted
* A.S.T.M. Desig. A7 or A36
STRUCTURAL STEEL ITEM 702-1038

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 15/16"ø
PAINT: Per Maine Specs & as noted

SPANS 6-7 & 8 S. B. & G. 6 & 7 N.B.

GIRDER GD6SB

Bancroft & Martin Inc.
South Portland, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

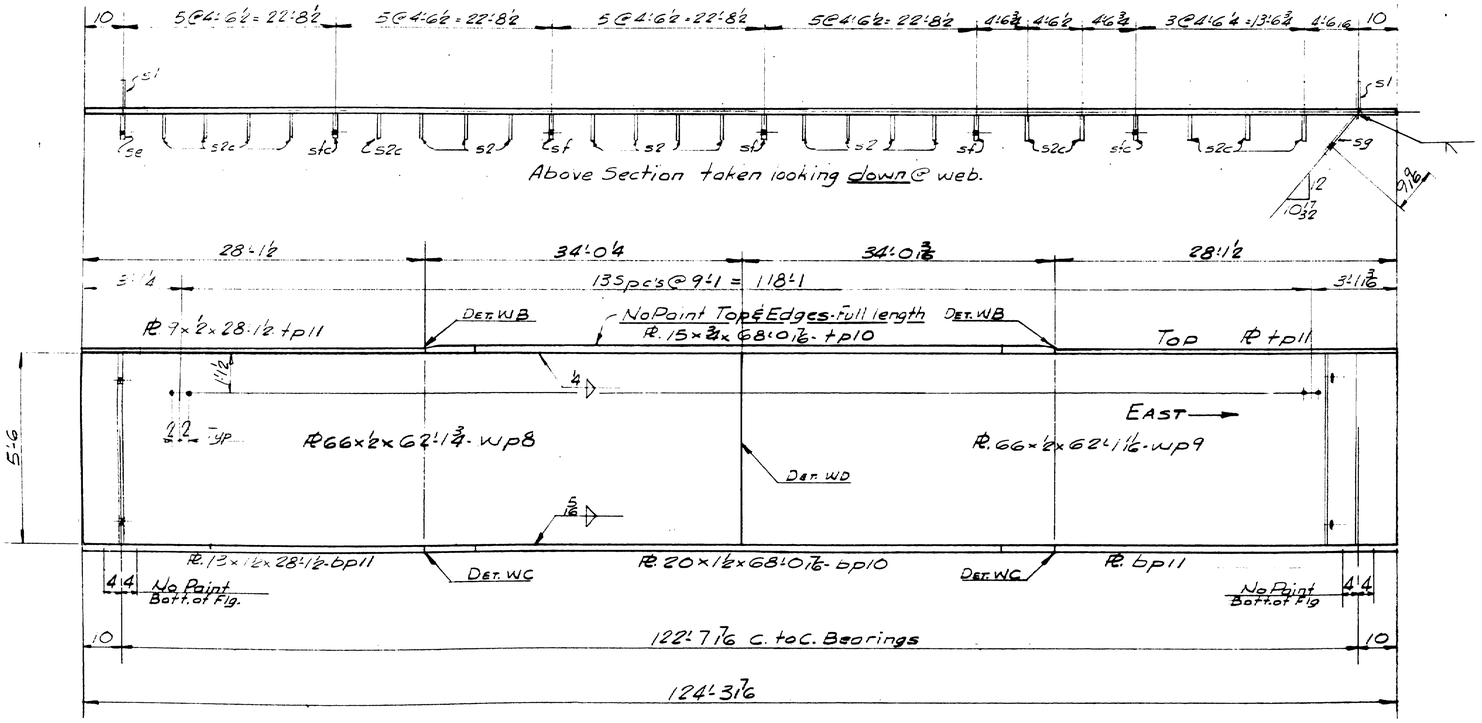
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S9

DRAWN	1-28-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP. 2-11-63

89-119



GIRDER GAGNB - ONE REQ'D

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg. S24.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GAGNB	1		GIRDER	124 3 7/16	—	
	1	wp8	PL 66" x ½"	62 1 3/4		
	1	wp9	Do	62 1 1/16		
	1	tp10	PL 15" x ¾"	68 0 1/16		
	2	tp11	PL 7" x ½"	28 1½		
	1	bp10	PL 20" x 1½"	68 0 1/16		
	2	bp11	PL 13" x ½"	28 1½		
	2	s1	Bar 6" x ¾"	5 6⅛		
	1	se	Do	5 6⅛		
	1	sg	PL 11" x 1½"	5 6⅛		
*	11	s2	Bar 6" x ⅜"	5 6		
*	10	s2c	Do	5 6		
*	3	sf	Do	5 6		
*	2	sfc	Do	5 6		

All Mat. A.S.T.M. Desig. A-441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16" ϕ
PAINT: Per Maine Spec's & as noted

SPANS G-7 & 8 S. B & G 6 & 7 N.B.

GIRDER GAGNB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

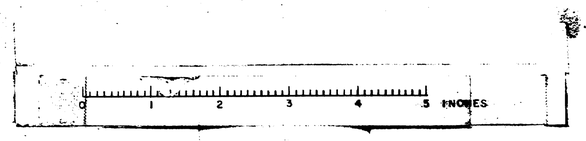
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

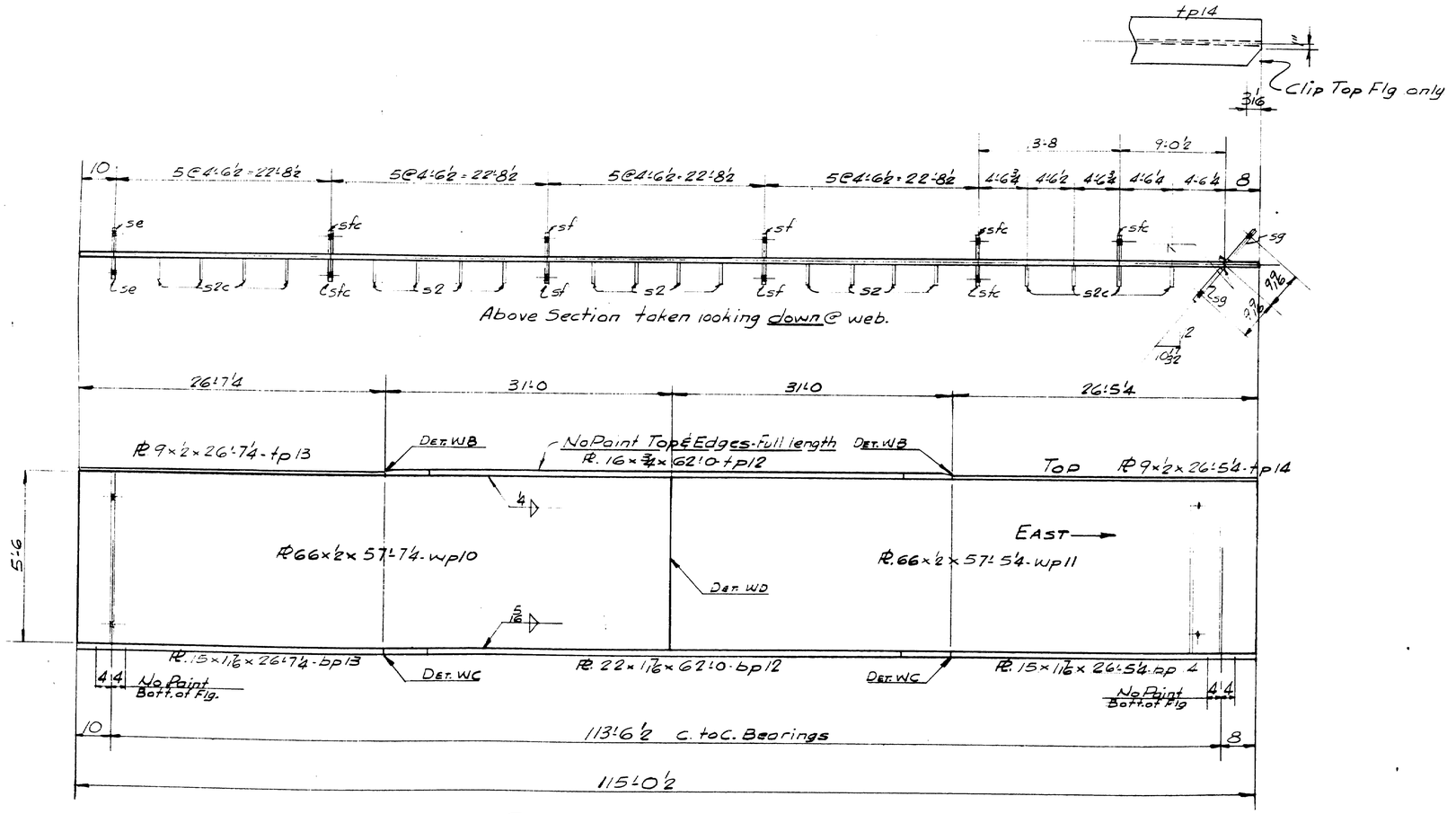
ORDER NO. VERBAL | DWG. NO. 63-5-S10

DRAWN	1-28-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP'D 2-19-63

89-120





GIRDER GB6NB - ONE REQ'D

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
for Stud Layout see Dwg. S24

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GB6NB	1		GIRDER	115 0½	—	
	1	wp10	PL 66 × ½	57 7¼		
	1	wp11	Do	57 5¼		
	1	tp12	PL 16 × ¾	62 0		
	1	tp13	PL 9 × ½	26 7¼		
	1	tp14	Do	26 5¼		
	1	bp12	PL 22 × 1 1/16	62 0		
	1	bp13	PL 15 × 1 1/16	26 7¼		
	1	bp14	Do	26 5¼		
	2	se	Bar 6 × ¾	5 6½		
	2	sg	PL 11 × 1 1/16	5 6½		
*	12	s2	Bar 6 × ⅜	5 6		
**	8	s2c	Do	5 6		
***	4	sf	Do	5 6		
****	5	sfc	Do	5 6		

All Mat. A.S.T.M. Desig. A-441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16
PAINT: Per Maine Specs & as noted

SPANS G-7 & S. B & G-7 N.B.

GIRDER GB6NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

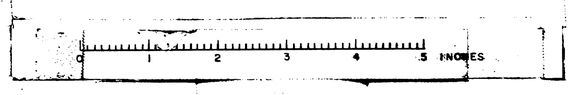
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

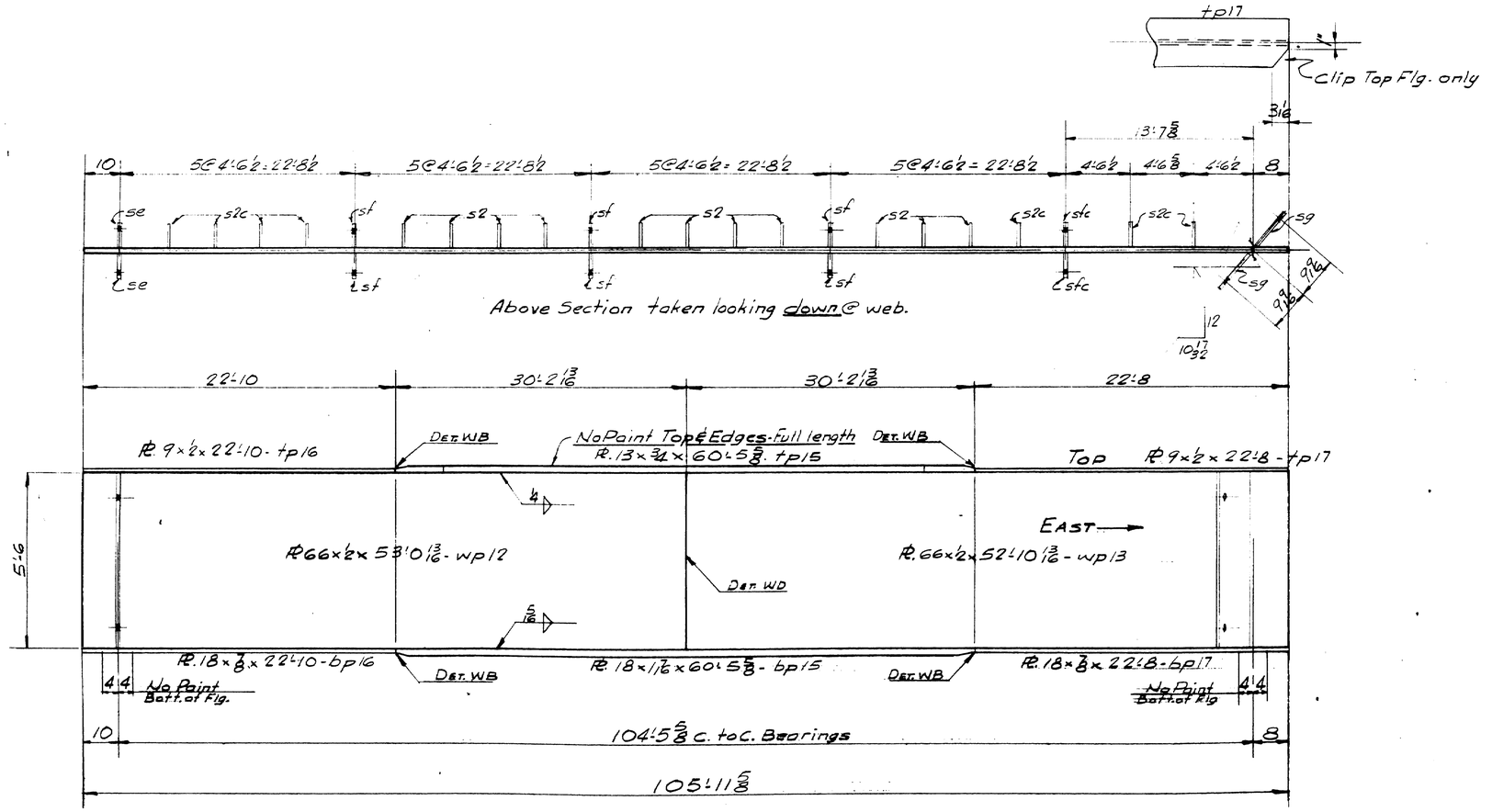
ORDER NO. VERBAL | DWG. NO. 63-5-S11

DRAWN	4-28-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP'D 2-19-63

89-121





GIRDER GC6NB - ONE REQ'D

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg. S24.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GC6NB	1		GIRDER	105 11 5/8	—	
	1	wp12	PL 66 × ½	53 0 13/16		
	1	wp13	Do	52 10 13/16		
	1	tp15	PL 13 × ¾	60 5 5/8		
	1	tp16	PL 9 × ½	22 10		
	1	tp17	Do	22 8		
	1	bp15	PL 18 × 1 7/16	60 5 5/8		
	1	bp16	PL 18 × ⅜	22 10		
	1	bp17	Do	22 8		
	2	se	Bar-6 × ⅜	5 6 5/8		
	2	sg	PL 11 × 1/16	5 6 5/8		
*	11	s2	Bar-6 × ⅜	5 6		
*	7	s2c	Do	5 6		
*	6	sf	Do	5 6		
*	2	stc	Do	5 6		

All Mat. A.S.T.M. Desig. A-441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16" ϕ
PAINT: Per Maine Specs 105 noted

SPANS G-7 & S. B66 & 7 N.B.

GIRDER GC6NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

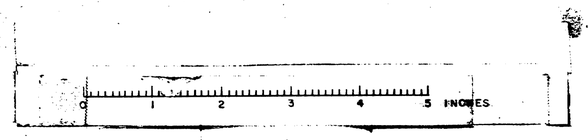
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

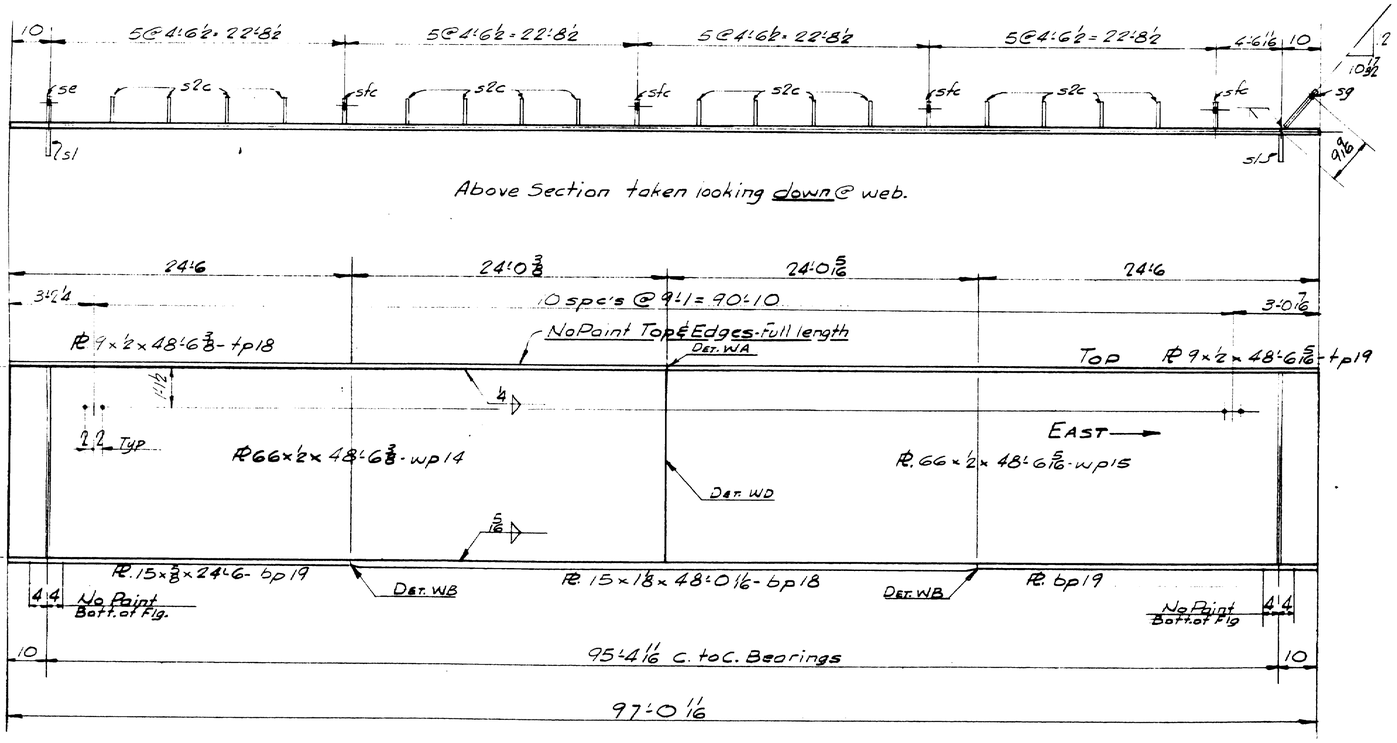
ORDER NO. VERBAL | DWG. NO. 63-5-S12

APP'D 2-19-63

DRAWN	1-28-63	J.P.F.
REVISION		
REVISION		
REVISION		

89-122





GIRDER GD6NB - ONE REQ'D

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg. S24.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
SD6NB	1		GIRDER	97 0 1/16	—	
	1	wp14	PL 66 x ½	48 6 3/8		
	1	wp15	Do	48 6 5/16		
	1	tp18	PL 9 x ½	48 6 3/8		
	1	tp19	Do	48 6 5/16		
	1	bp18	PL 15 x 1 1/8	48 0 1/16		
	2	bp19	PL 15 x 3/8	24 6		
	2	S1	Bar 6 x 3/4	5 6 1/2		
	1	S2	Do	5 6 1/2		
	1	S9	PL 11 x 1/16	5 6 1/2		
*	16	S2C	Bar 6 x 3/8	5 6		
*	4	S1C	Do	5 6		

All Mat. A.S.T.M. Desig. A-441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16"ø
PAINT: Per Maine Specs. as noted

SPANS 6-7 & 8 S.B. & 6 & 7 N.B.

GIRDER GD6NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SHODDRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

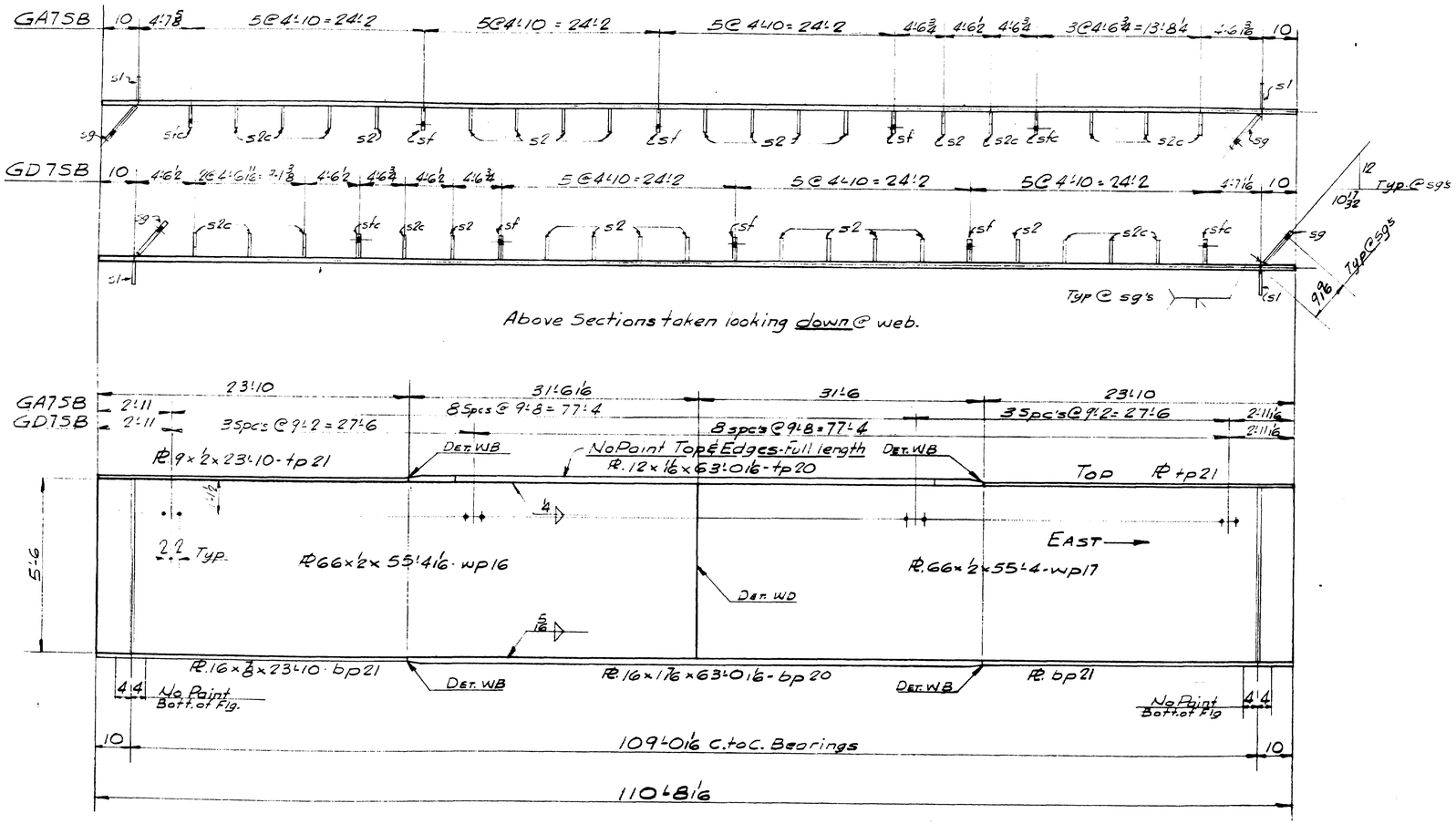
ORDER NO. VERBAL | DWG. NO. 63-5-513

DRAWN	1-28-63	J.P.F.
REVISION		
REVISION		
REVISION		

ADD 2-19-63

89-123

0 1 2 3 4 5 INCHES



GIRDER GA7SB - ONE REQ'D - As Noted.
GIRDER GD7SB - ONE REQ'D - As Noted.

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg. S24.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GA7SB	1		GIRDER	110 8 1/16	—	
GD7SB	1		Do	110 8 1/16	—	
	2	wp16	PL 66 x ½	55 4 1/16		
	2	wp17	Do	55 4		
	2	tp20	PL 12 x 1/16	63 0 1/16		
	4	tp21	PL 9 x ½	23 10		
	2	bp20	PL 16 x 1/16	63 0 1/16		
	4	bp21	PL 16 x ⅜	23 10		
	4	s1	Bar 6 x ¾	5 6⅜		
	4	sg	PL 11 x 1/16	5 6⅜		
*	20	s2	Bar 6 x ⅜	5 6		
*	14	s2c	Do	5 6		
*	6	sf	Do	5 6		
*	4	sfc	Do	5 6		

All Mat. A.S.T.M. Desig. A-441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702-108B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16" Φ
PAINT: Per Maine Specs & os noted

SPANS 6-7 & 8 S. BEG 6-7 N.B.

GIRDERS GA7SB & GD7SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

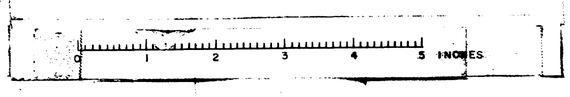
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

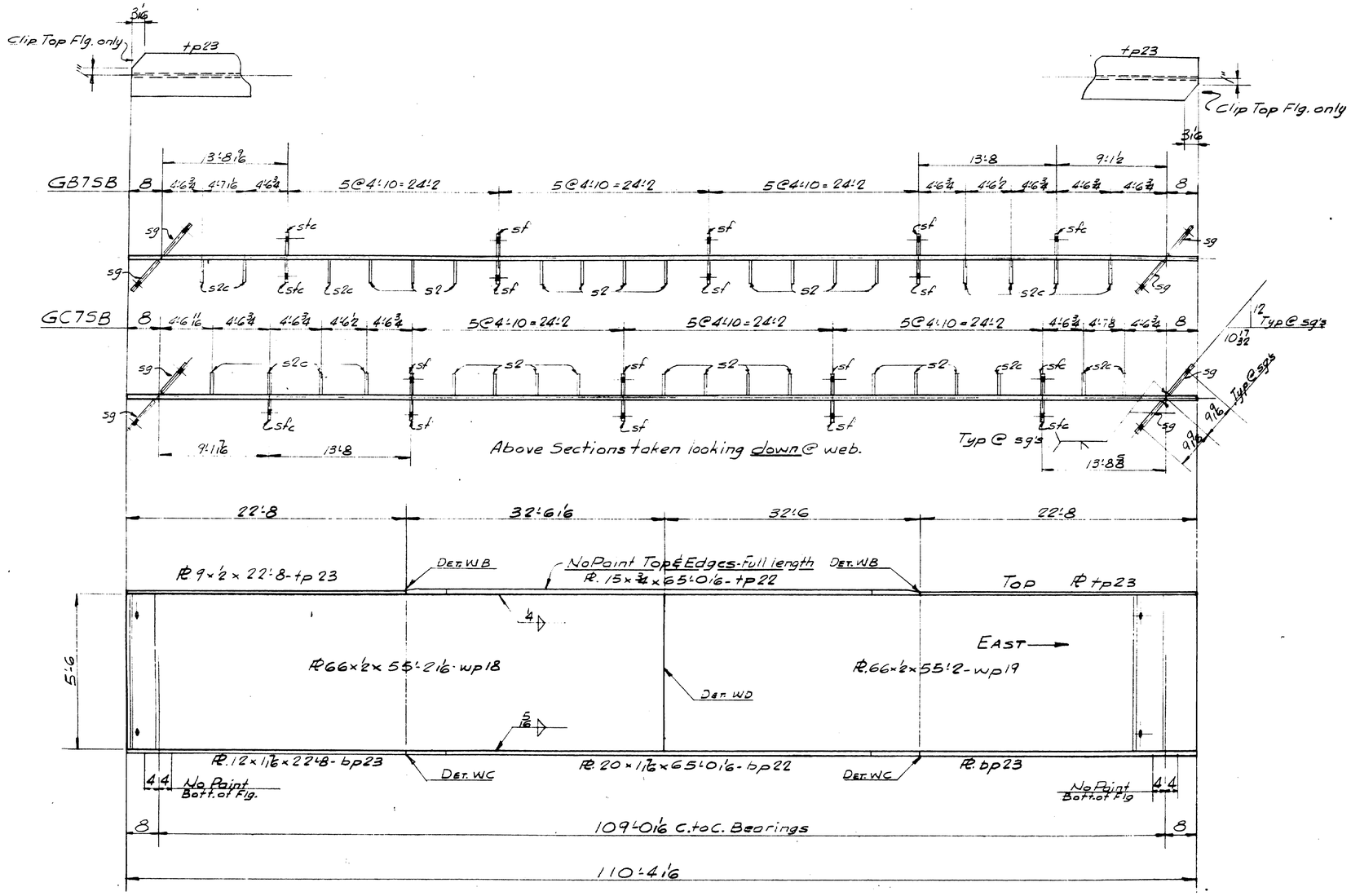
ORDER NO. VERBAL | DWG. NO. 63-5-S14

APD 2-19-63

DRAWN	1-28-63	J.P.P.	
REVISION			
REVISION			
REVISION			

89-124





GIRDER GB75B - ONE REQ'D - As Noted.
GIRDER GC75B - ONE REQ'D - As Noted.

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg. S24

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GB75B	1		GIRDER	110 4 1/16	—	
GC75B	1		Do	110 4 1/16	—	
	2	wp18	PL 66 x 1/2	55 2 1/16		
	2	wp19	Do	55 2		
	2	tp22	PL 15 x 3/4	65 0 1/16		
	4	tp23	PL 9 x 1/2	22 8		
	2	bp22	PL 20 x 1 1/16	65 0 1/16		
	4	bp23	PL 12 x 1 1/16	22 8		
	8	sg	PL 11 x 1 1/16	5 6 3/8		
*	22	s2	Bar 6 x 3/8	5 6		
*	14	s2c	Do	5 6		
*	12	st	Do	5 6		
*	6	stc	Do	5 6		

BILL OF MATERIAL — DWG. NO. 63-5-S15

All Mat. A.S.T.M. Desig. A-441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702-10B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16 @
PAINT: Per Maine Specs & os noted

SPANS G-7 & 8 S. B. & G-6 & 7 N.B.

GIRDERS GB75B & GC75B

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

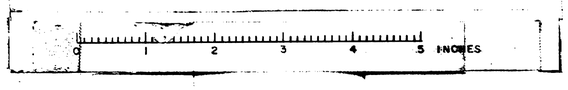
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

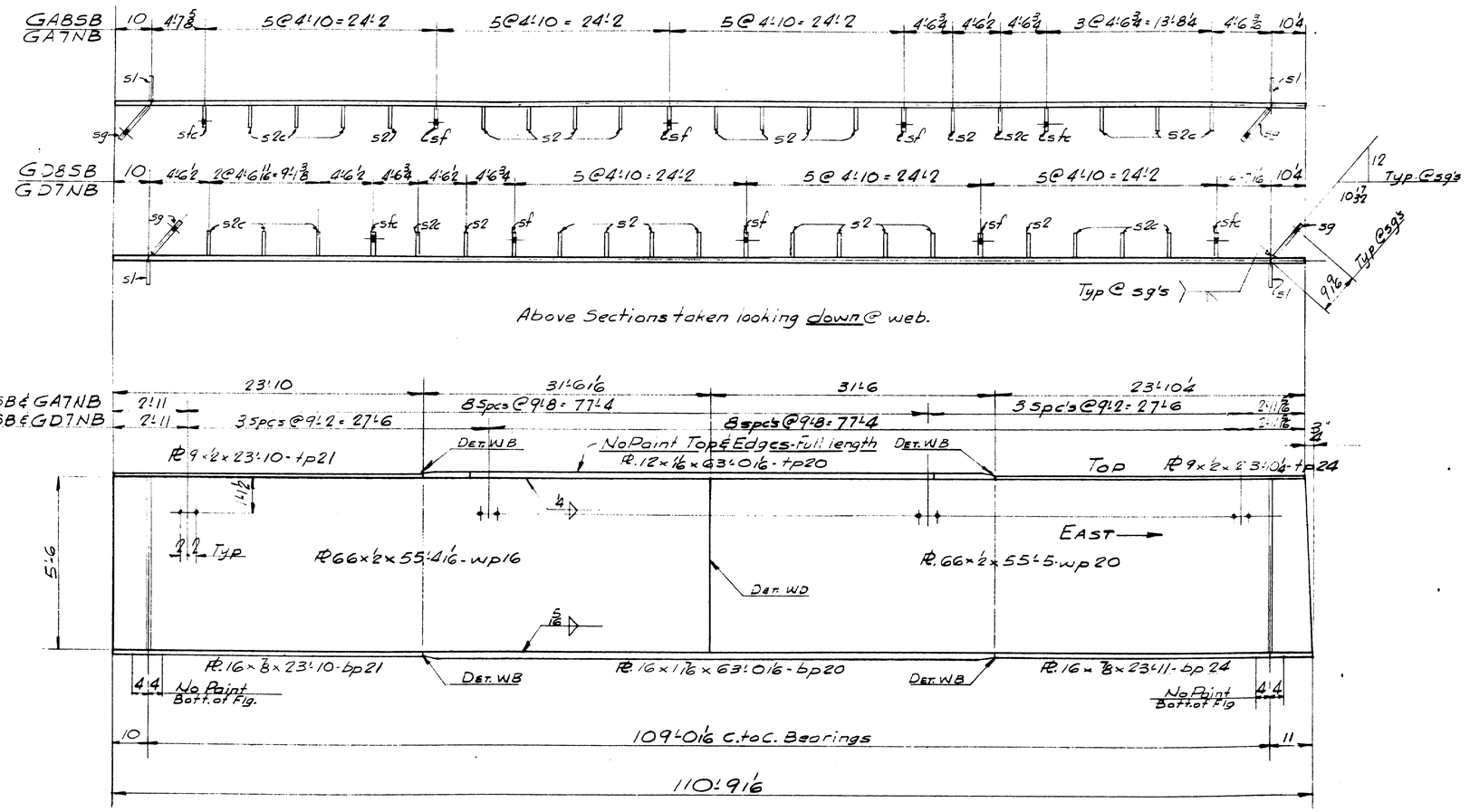
ORDER NO. VERBAL | DWG. NO. 63-5-S15

ADD 2-19-63

DRAWN	1-28-63	J.P.F.	
REVISION			
REVISION			
REVISION			

89-125





GIRDER GA8SB - ONE REQ'D - AS NOTED.
GIRDER GD8SB - ONE REQ'D - AS NOTED.
GIRDER GA7NB - ONE REQ'D - AS NOTED.
GIRDER GD7NB - ONE REQ'D. AS NOTED.

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg. S24.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GA8SB	1		GIRDER	110 9 1/16	—	
GD8SB	1		Do	110 9 1/16	—	
GA7NB	1		Do	110 9 1/16	—	
GD7NB	1		Do	110 9 1/16	—	
	4	wp16	PL 66 x 1/2	55 4 1/16		
	4	wp20	Do	55 5		
	4	fp20	PL 12 x 1 1/16	63 0 1/16		
	4	fp21	PL 9 x 3/8	23 10		
	4	fp24	Do	23 10 1/4		
	4	bp20	PL 16 x 1 1/16	63 0 1/16		
	4	bp21	PL 16 x 3/8	23 10		
	4	bp24	Do	23 11		
	8	s1	Bar 6 x 3/4	5 6 3/8		
	8	sg	PL 11 x 1/16	5 6 3/8		
*	40	s2	Bar 6 x 3/8	5 6		
*	28	s2c	Do	5 6		
*	12	sf	Do	5 6		
*	8	sfc	Do	5 6		

All Mat. A.S.T.M. Desig. A-441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16" ϕ
PAINT: Per Maine Specs as noted

SPANS 6-7 & 8 S.B. & 6-7 N.B.

GIRDERS GA8SB & GD8SB GA7NB & GD7NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

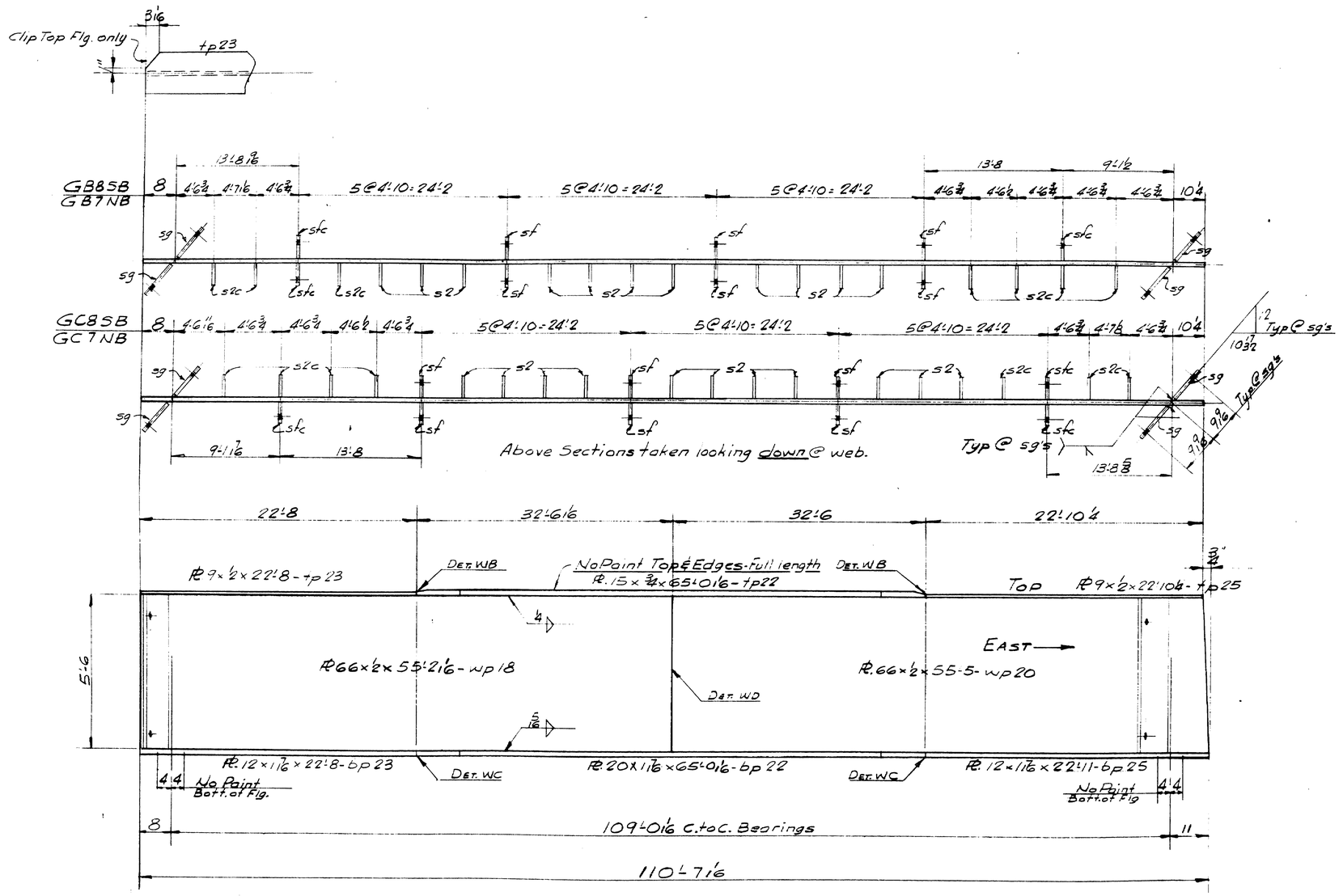
ORDER NO. VERBAL | DWG. NO. 63-5-S16

DRAWN	1-29-63	J.P.F.
REVISION		
REVISION		
REVISION		

ADD 2-12-63

(E)

89-126



GIRDER GB85B - ONE REQ'D - As Noted.
GIRDER GC85B - ONE REQ'D - As Noted.
GIRDER GB7NB - ONE REQ'D - As Noted.
GIRDER GC7NB - ONE REQ'D - As Noted.

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S4.
For Stiffener Details see Dwg. S5.
For Stud Layout see Dwg. S24.

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GB85B	1		GIRDER	110	7/16	—	
GC85B	1		Do	110	7/16	—	
GB7NB	1		Do	110	7/16	—	
GC7NB	1		Do	110	7/16	—	
	4	wp18	PL 66 x 1/2	55	2 1/16		
	4	wp20	Do	55	5		
	4	tp22	PL 15 x 3/4	65	0 1/16		
	4	tp23	PL 9 x 1/2	22	8		
	4	tp25	Do	22	10 1/4		
	4	bp22	PL 20 x 1 1/16	65	0 1/16		
	4	bp23	PL 12 x 1 1/16	22	8		
	4	bp25	Do	22	11		
	16	sg	PL 1 x 1/2	5	6 3/8		
	44	s2	Bar 6 x 3/8	5	6		
	28	s2c	Do	5	6		
	24	sf	Do	5	6		
	12	sfc	Do	5	6		

All Mat. A.S.T.M. Desig A-441 unless noted

* A.S.T.M. Desig A7 or A36

Structural Steel Item 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16" ø
PAINT: Per Maine Specs & as noted

SPANS G-7 & 8 S. B. & G-7 N.B.

GIRDERS GB85B & GC85B GB7NB & GC7NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

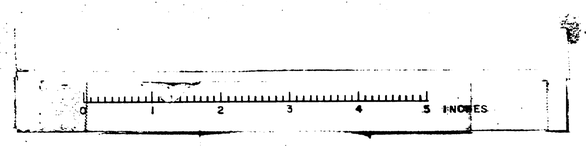
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

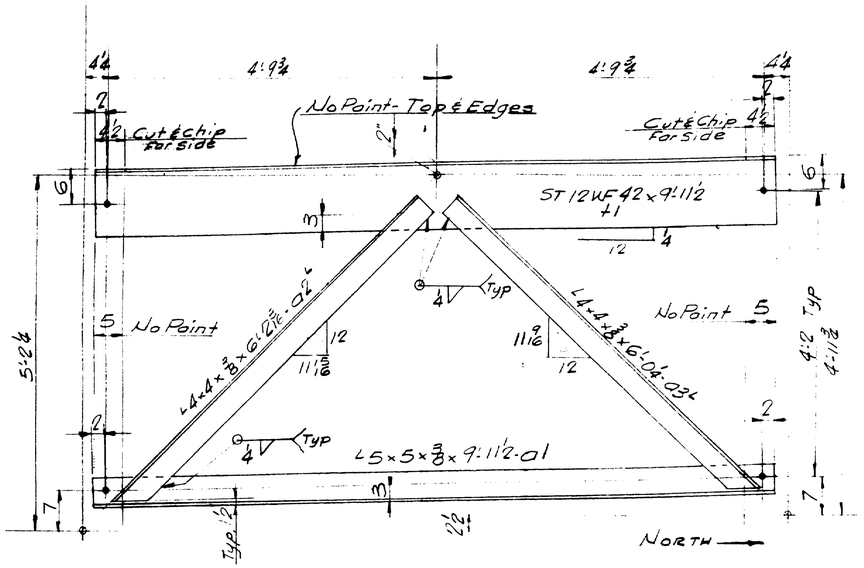
ORDER NO. VERBAL | DWG. NO. 63-5-S17

DRAWN	1-29-63	J.P.P.
REVISION		
REVISION		
REVISION		

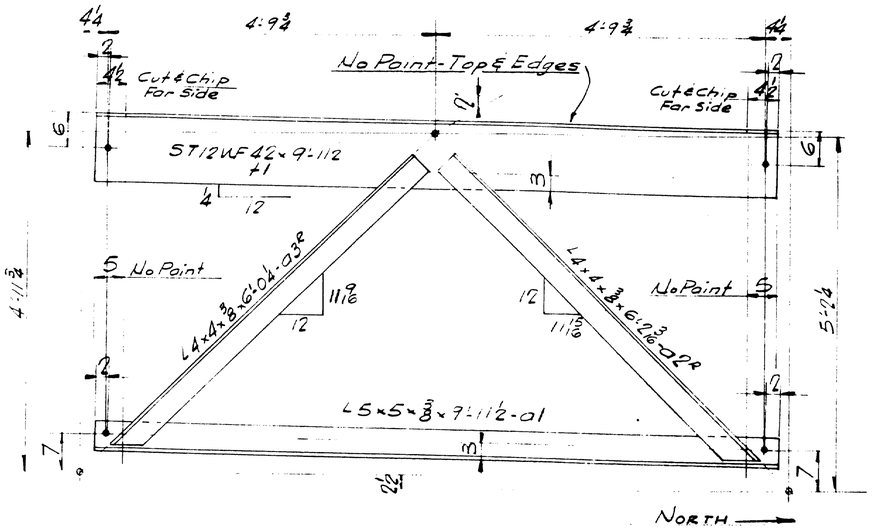
APP'D 2-19-63

89-127

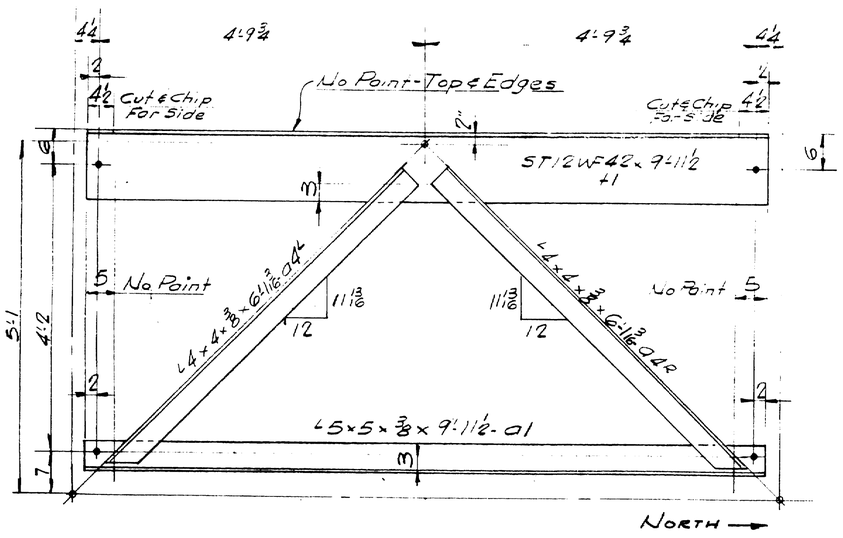




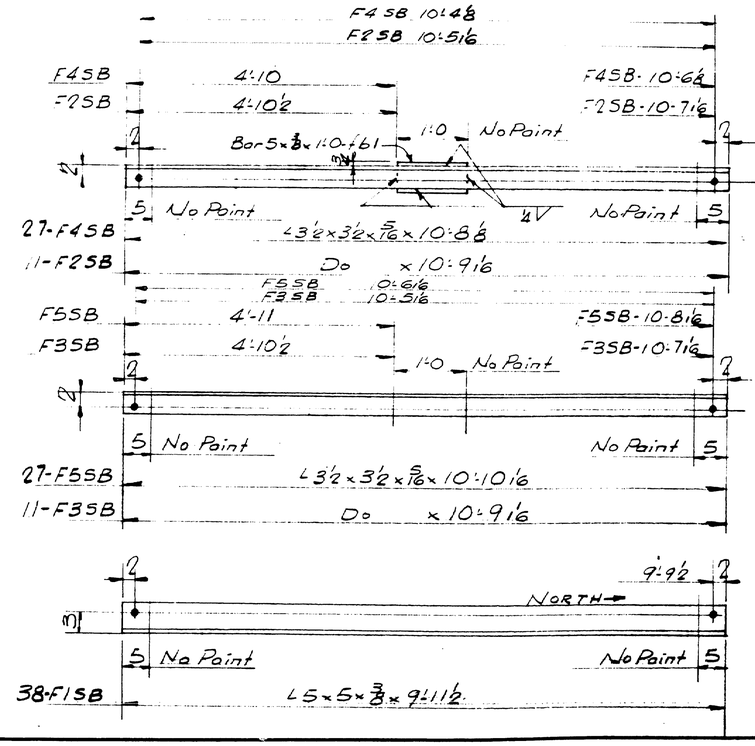
E3SB - ONE REQ'D.



E2SB - ONE REQ'D.



E1SB - ONE REQ'D.



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
E1SB	1		Cross Frame	9 11½	—	
E2SB	1		Do	9 11½	—	
E3SB	1		Do	9 11½	—	
	3	f1	ST12WF42	9 11½		
	3	a1	L5x5x⅜	9 11½		
	1	a2R	L4x4x⅜	6 2 3/16		
	1	a2L		6 2 3/16		
	1	a3R		6 10 4		
	1	a3L		6 10 4		
	1	a4R		6 11 3/16		
	1	a4L	L4x4x⅜	6 11 3/16		
F1SB	38		L5x5x⅜	9 11½		
F2SB	11		L3½x3½x5/16	10 9 1/16		
F3SB	11			10 9 1/16		
F4SB	27			10 8 3/8		
F5SB	27		L3½x3½x5/16	10 10 1/16		
	38	f61	Bar 5x⅜	1 0		
FIELD	12		¾" M Bolts	0 2 4		For Type E
Do	230		Do	0 1 7/8		For Type F

ASTM Desig A36 or A7

ITEM 702.103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 15/16" Φ
PAINT: Per Maine Specs to as noted

SPANS G-7 & 8-S.B.

CROSS FRAMES - TYPES E & F

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

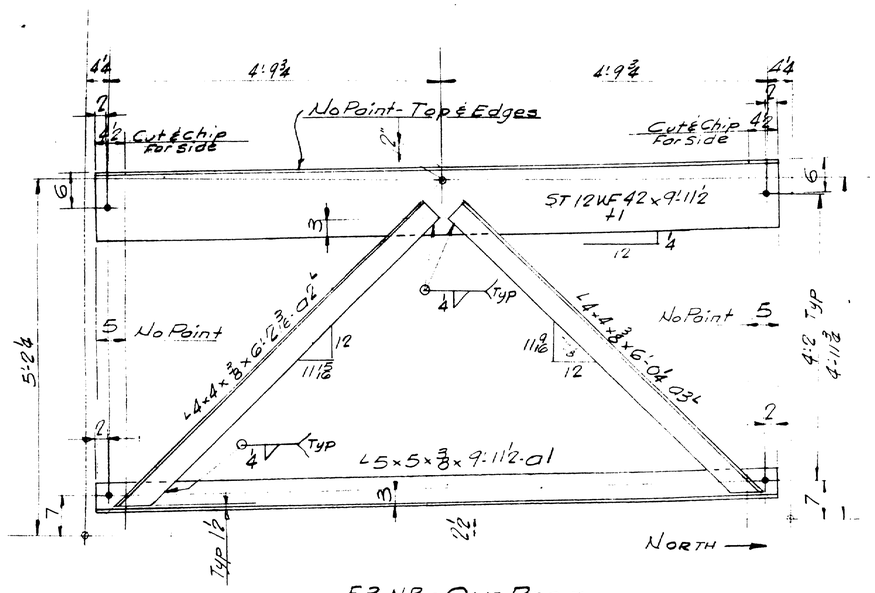
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S18

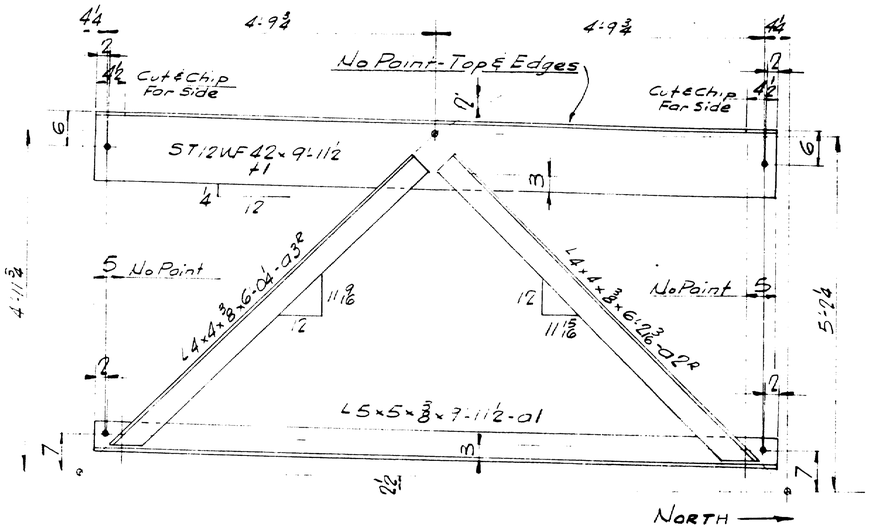
DRAWN	2-5-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP 2-19-63

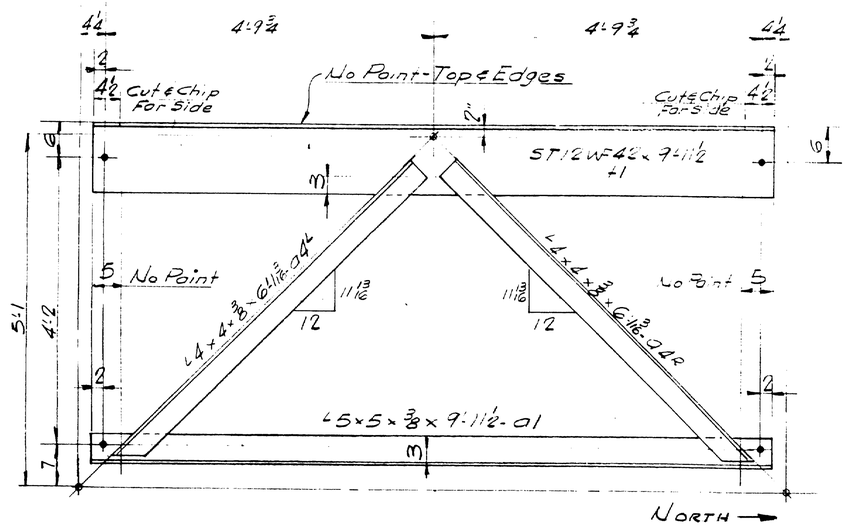
89-128



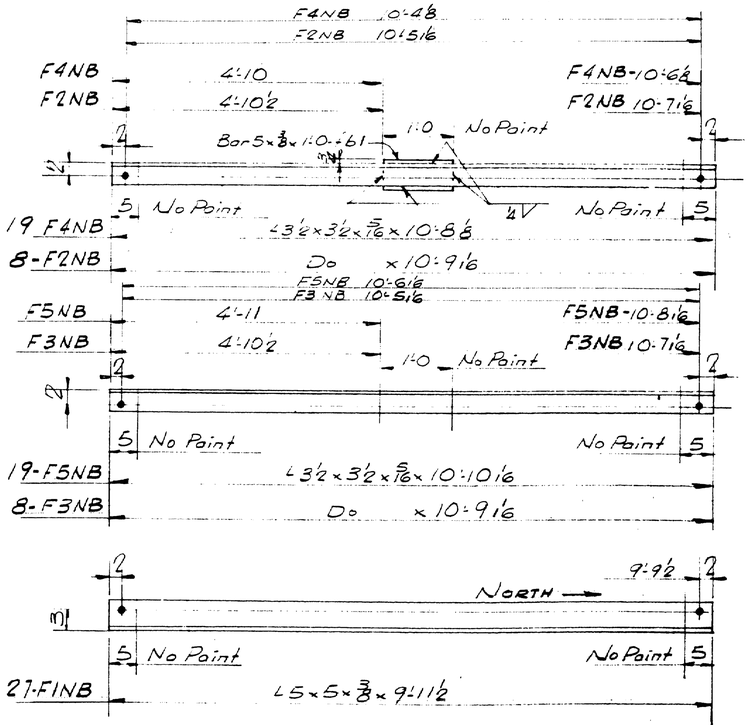
E3NB · ONE REQ'D



E2NB · ONE REQ'D.



E1NB-ONE REQ'D.



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
E1NB	1		Cross Frame	9 11½	—	
E2NB	1		Do	9 11½	—	
E3NB	1		Do	9 11½	—	
	3	+1	ST 12 WF 42	9 11½		
	3	01	L 5x5x⅜	9 11½		
	1	02R	L 4x4x⅜	6 2 3/16		
	1	02L		6 2 3/16		
	1	03R		6 04		
	1	03L		6 04		
	1	04R		6 1 3/16		
	1	04L	L 4x4x⅜	6 1 3/16		
F1NB	27		L 5x5x⅜	9 11½		
F2NB	8		L 3½x3½x5/16	10 9 1/16		
F3NB	8			10 7 1/16		
F4NB	19			10 8⅜		
F5NB	19		L 3½x3½x5/16	10 10 1/16		
	27	fbl	Bar 5x⅜	1 0		
FIELD	12		⅞ M. Bolts	0 2¼		For Type E
Do	65		Do	0 1¾		For Type F

ASTM Desig A36 or A7

ITEM 702.103 B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 15/16 Φ
PAINT: Per Maine Specs & as noted

SPANS 6 & 7 - N.B.

CROSS FRAMES - TYPES E & F

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

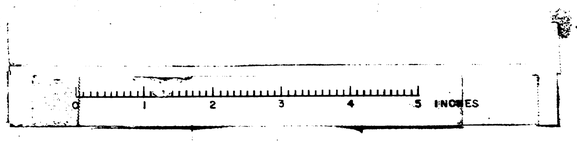
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

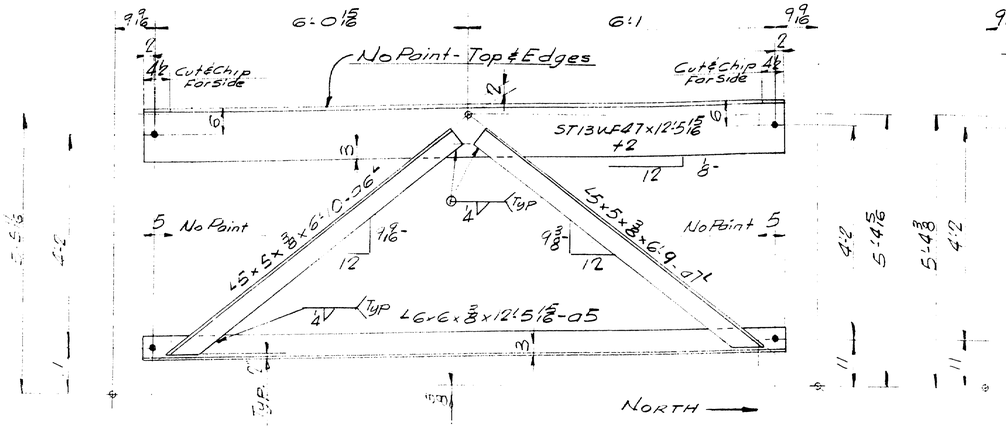
ORDER NO. VERBAL | DWG. NO. 63-5-S19

DRAWN	2-5-63	J.P.F.
REVISION		
REVISION		
REVISION		

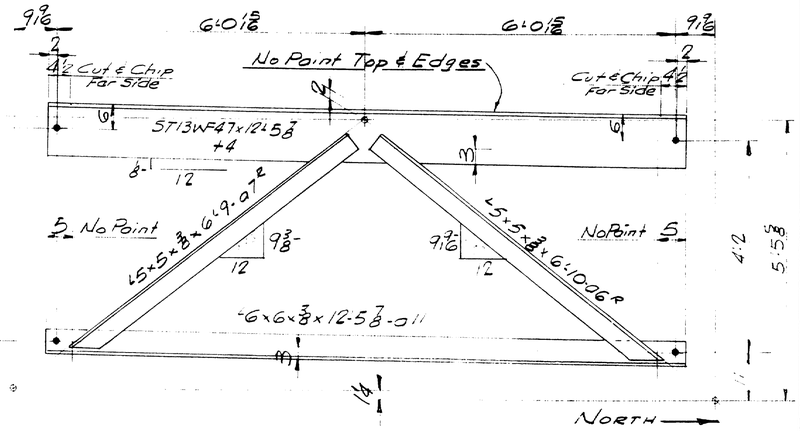
APP 2-19-63

89-129

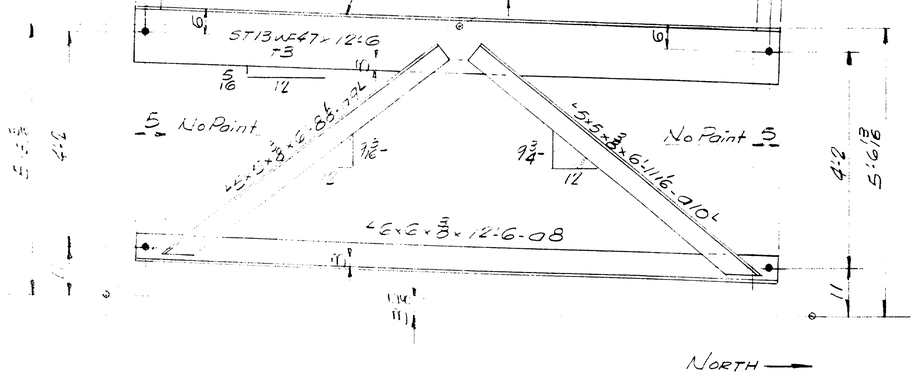




G1SB - 2 Reqd



G2SB - 2 Reqd.



G3SB - 1 Reqd.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
G1SB	2		Cross Frames	12 5 15/16	—	
G2SB	2		Do	12 5 7/8	—	
G3SB	2		Do	12 5 15/16	—	
	2	+2	ST13WF47	12 5 15/16		
	2	+3	Do	12 6		
	2	05	-6x6x3/8	12 5 15/16		
	2	06R	L5x5x3/8	6 10		
	2	06L	"	6 10		
	2	07R	"	6 9		
	2	07L	L5x5x3/8	6 7		
	2	08	-6x6x3/8	12 6		
	2	09L	-5x5x3/8	6 3 8		
	2	010L	Do	6 11 16		
	2	+4	ST13WF47	12 5 7/8		
	2	011	-6x6x3/8	12 5 7/8		
FIELD	24		3/4" M. Bolts	0	24	

A.S.T.M. Desig A36 or A7

ITEM 702-038

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16 ø
PAINT: Per Maine Specs & as noted

SPANS 5-7 & 5B

CROSS FRAMES - TYPE G

Bancroft & Martin Inc.
South Portland, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

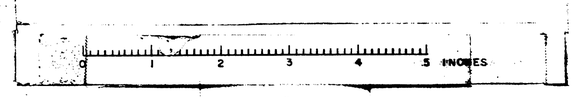
CUSTOMER F.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

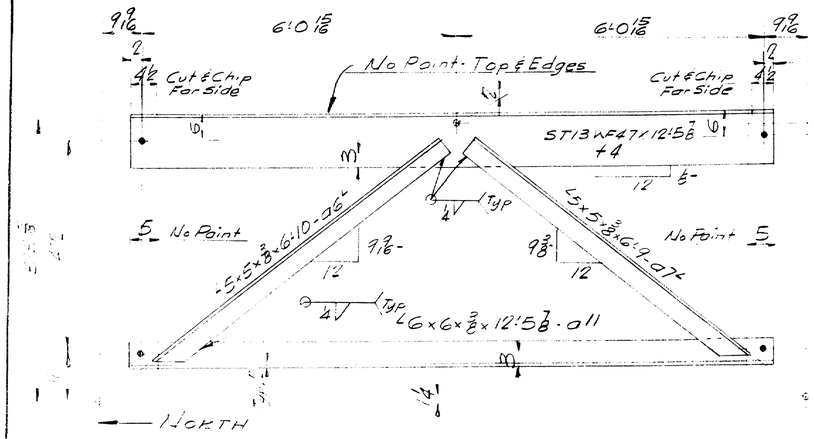
ORDER NO VERBAL | DWG. NO. 63-5-S20

DRAWN	2-6-63	J.P.F.
REVISION		
REVISION		
REVISION		

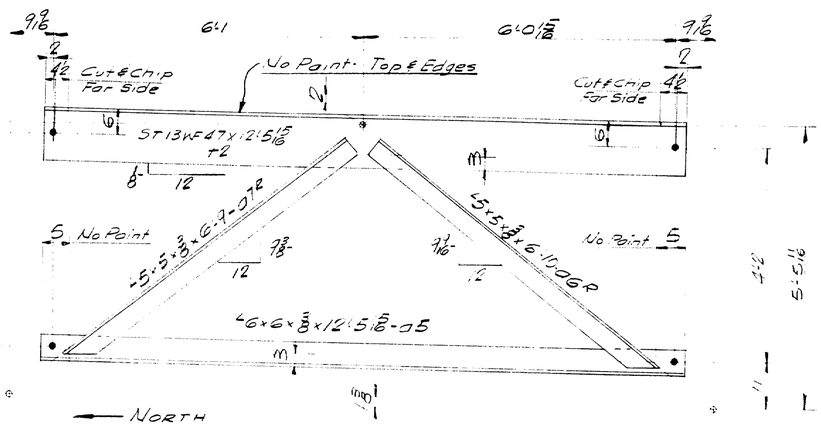
APP'D 2-11-63

89 - 130

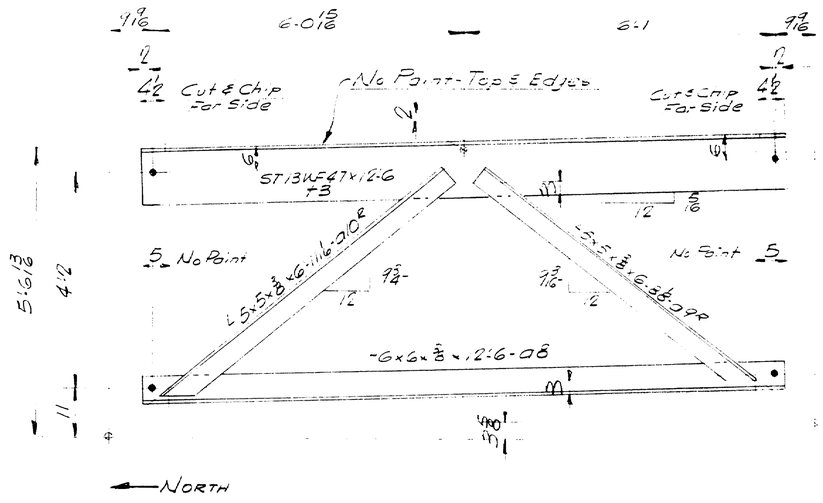




G5SB - 3 REQ'D



G4SB - 3 REQ'D



G6SB - 3 REQ'D.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
G4SB	3		Cross Frame	12 5 15/16	—	
G5SB	3		Do	12 5 7/8	—	
G6SB	3		Do	12 5 15/16	—	
	3	+2	ST13WF47	12 5 15/16		
	3	+3	Do	12 6		
	3	+4	Do	12 5 7/8		
	3	G5	L6x6x3/8	12 6 15/16		
	3	G6R	L5x5x3/8	6 10		
	3	G6L		6 10		
	3	G7R		6 9		
	3	G7L	L5x5x3/8	6 9		
	3	G8	L6x6x3/8	12 6		
	3	G9R	L5x5x3/8	6 8 8		
	3	G10R	Do	6 11 6		
	3	G11	L6x6x3/8	12 5 7/8		
FIELD	36		3/4" H.S. BOLTS	0	24	

ASTM Spec. A325 or A7

ITEM 702.0SB

SHOP CONNECTIONS welded
FIELD CONNECTIONS welded
HOLES: as detailed
PAINT: Per Maine Specs as noted

SPANS 6-7&8 SB

CROSS FRAMES - TYPE G

Designed by Maine Dept.
Detailed by Maine

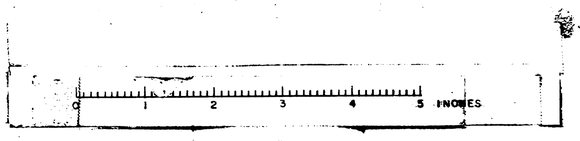
CLINTON A CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

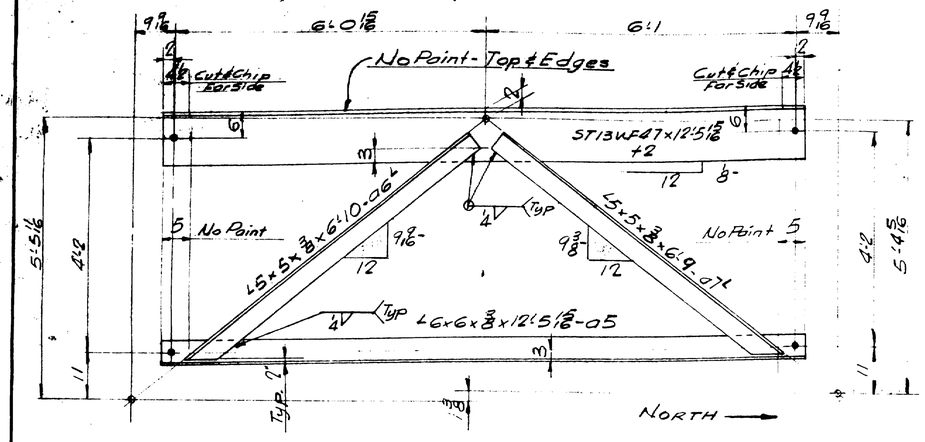
CUSTOMER E. C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO VERBAL | DWG. NO 63-5-521

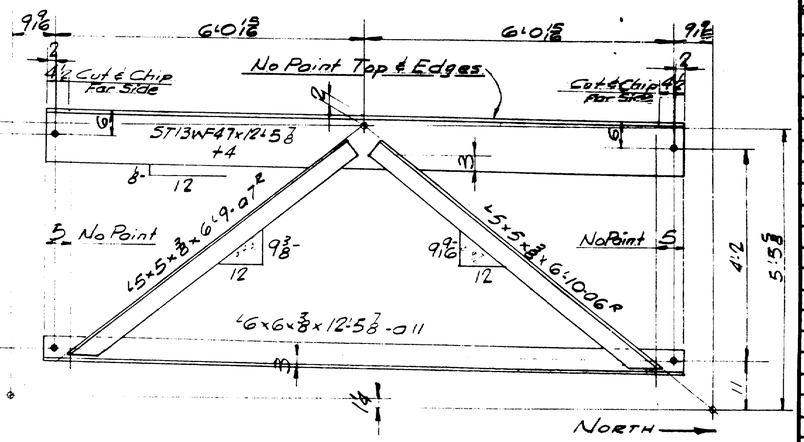
DRAWN	2-7-63	J.P.F.
REVISION		
REVISION		
REVISION		

89-131

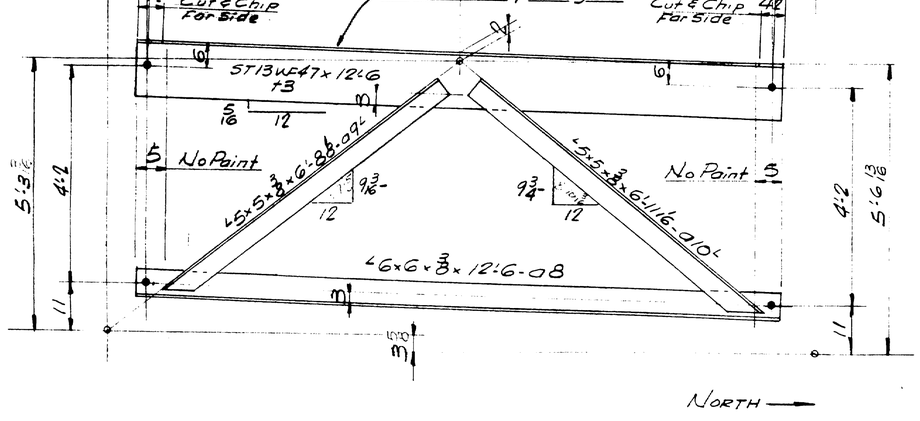




G1NB - ONE REQ'D.



G2NB - ONE REQ'D.



G3N.B - ONE REQ'D

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
G1NB	1		CROSS FRAMES	12 5 15/16	—	
G2NB	1		Do	12 5 7/8	—	
G3NB	1		Do	12 5 15/16	—	
	1	+2	ST13WF47	12 5 15/16		
	1	+3	Do	12 6		
	1	05	L6x6x3/8	12 5 15/16		
	1	06R	L5x5x3/8	6 10		
	1	06L		6 10		
	1	07R		6 9		
	1	07L	L5x5x3/8	6 9		
	1	08	L6x6x3/8	12 6		
	1	09L	L5x5x3/8	6 8 1/2		
	1	010L	Do	6 1/2		
	1	+4	ST13WF47	12 5 7/8		
	1	011	L6x6x3/8	12 5 7/8		
FIELD	12		3/4" ⌀ M BOLTS	0	24	

A.S.T.M Desig A36 or A7

ITEM 702-1038

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16" ⌀
PAINT: Per Maine Specs if as noted

SPANS 6 & 7 N.B.

CROSS FRAMES - TYPE G

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

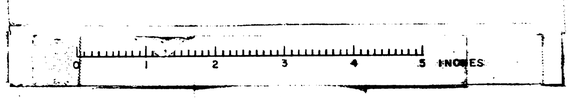
CUSTOMER F.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

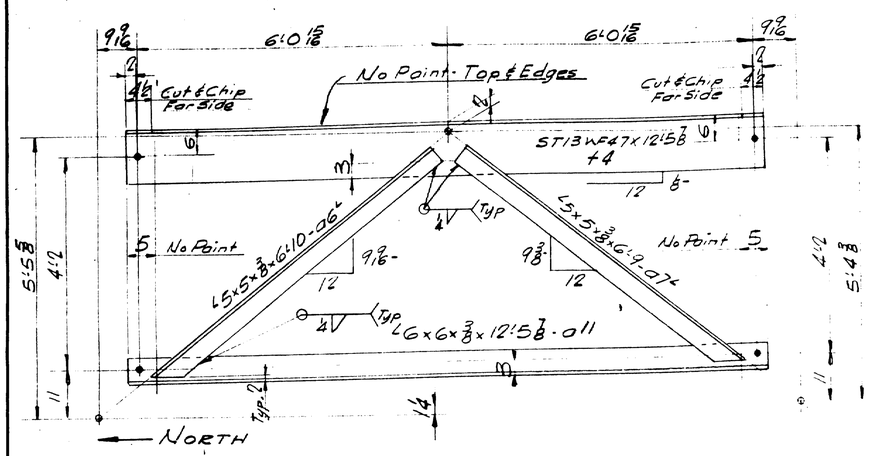
ORDER NO. VERBAL DWG. NO. 63-5-S22

DRAWN	2-6-63	J.F.F.	
REVISION			
REVISION			
REVISION			

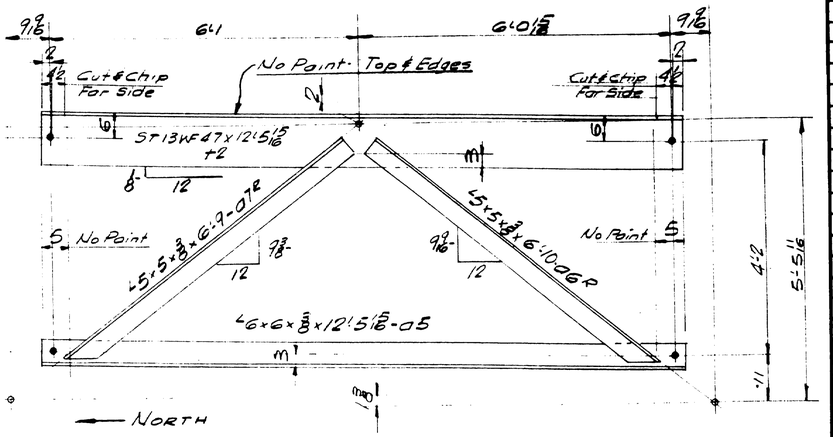
APP. 2-19-63

89-132

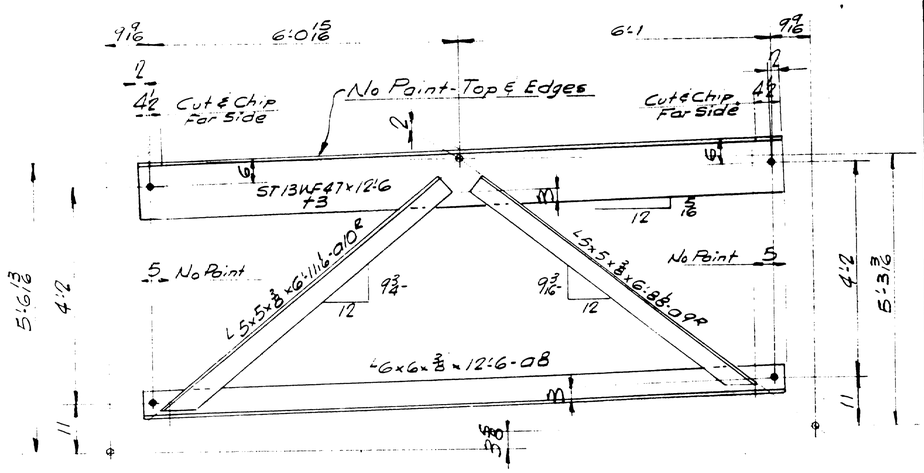




G5NB - 2 REQ'D.



G4NB - 2 REQ'D



G6NB - 2 REQ'D.

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
			BILL OF MATERIAL			DWG. NO. 63-5-523
G4NB	2		Cross Frame	12 5 15/16	—	
G5NB	2		Do	12 5 7/8	—	
G6NB	2		Do	12 5 15/16	—	
	2	f2	ST13WF47	12 5 15/16		
	2	f3	Do	12 6		
	2	f4	Do	12 5 7/8		
	2	05	L6x6x3/8	18 5 15/16		
	2	06R	L5x5x3/8	6 10		
	2	06L		6 10		
	2	07R		6 9		
	2	07L	L5x5x3/8	6 9		
	2	08	L6x6x3/8	12 6		
	2	09R	L5x5x3/8	6 8 8		
	2	010R	Do	6 11 1/16		
	2	011	L6x6x3/8	12 5 8		
FIELD	24		3/4" ø A325 N Bolts	0	24	

A.S.T.M. Desig A36 or A7

ITEM 702-103B

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16" ø
PAINT: Per Maine Specs & as noted

SPANS 6 & 7 N.B.

CROSS FRAMES - TYPE G

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-523

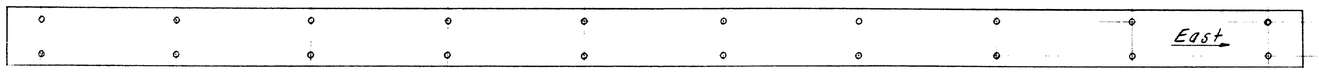
APP 2-19-63

DRAWN	2-7-63	J.P.F.
REVISION		
REVISION		
REVISION		

89-133

10 — 24 Sp.@0'-5 — 20 Sp.@0'-6 — 21 Sp.@0'-7 — 16 Sp.@0'-9 — 15 Sp.@1'-0 — 16 Sp.@0'-9 — 21 Sp.@0'-7 — 20 Sp.@0'-6 — 24 Sp.@0'-5 — GA6SB

9 5/8 — 20 Sp.@0'-5 — 20 Sp.@0'-6 — 15 Sp.@0'-8 — 7 Sp.@0'-10 — 8 Sp.@1'-0 — 7 Sp.@0'-10 — 15 Sp.@0'-8 — 20 Sp.@0'-6 — 20 Sp.@0'-5 — GD6SB



GB7SB, GC7SB
GB7NB, GC7NB
GB8SB, GC8SB
GA7SB, GD7SB
GA7NB, GD7NB
GA8S.B, GD8SB

7 5/16 — 18 Sp.@0'-4 — 30 Sp.@0'-5 — 22 Sp.@0'-6 — 15 Sp.@0'-7 — 13 Sp.@0'-9 — 13 Sp.@1'-0 — 13 Sp.@0'-9 — 15 Sp.@0'-7 — 22 Sp.@0'-6 — 30 Sp.@0'-5 — 18 Sp.@0'-4

9 5/16 — 18 Sp.@0'-4 — 30 Sp.@0'-5 — 22 Sp.@0'-6 — 15 Sp.@0'-7 — 13 Sp.@0'-9 — 13 Sp.@1'-0 — 13 Sp.@0'-9 — 15 Sp.@0'-7 — 22 Sp.@0'-6 — 30 Sp.@0'-5 — 18 Sp.@0'-4

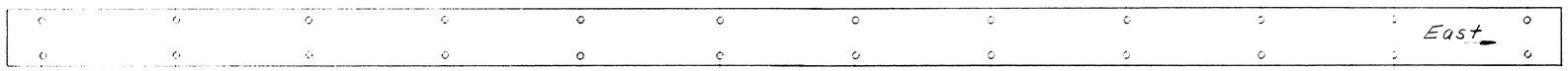
9 5/8 — 20 Sp.@0'-5 — 17 Sp.@0'-6 — 14 Sp.@0'-7 — 12 Sp.@0'-8 — 8 Sp.@0'-10 — 16 Sp.@1'-0 — 8 Sp.@0'-10 — 12 Sp.@0'-8 — 14 Sp.@0'-7 — 17 Sp.@0'-6 — 20 Sp.@0'-5 — GD6NB

10 1/8 — 24 Sp.@0'-4 — 23 Sp.@0'-5 — 21 Sp.@0'-6 — 16 Sp.@0'-7 — 13 Sp.@0'-9 — 10 Sp.@1'-0 — 13 Sp.@0'-9 — 16 Sp.@0'-7 — 21 Sp.@0'-6 — 23 Sp.@0'-5 — 24 Sp.@0'-4 — GC6NB

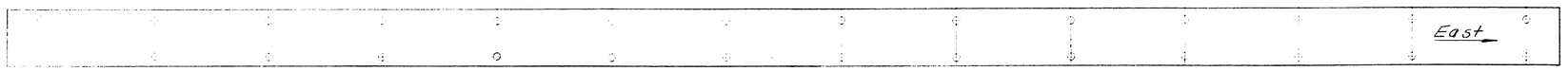
10 1/16 — 24 Sp.@0'-5 — 20 Sp.@0'-6 — 17 Sp.@0'-7 — 16 Sp.@0'-8 — 14 Sp.@0'-10 — 18 Sp.@1'-0 — 14 Sp.@0'-10 — 16 Sp.@0'-8 — 17 Sp.@0'-7 — 20 Sp.@0'-6 — 24 Sp.@0'-5 — GA6NB

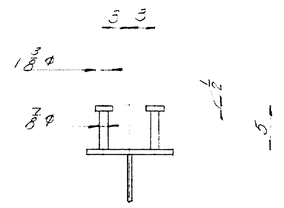
10 1/8 — 24 Sp.@0'-4 — 18 Sp.@0'-5 — 17 Sp.@0'-6 — 14 Sp.@0'-7 — 10 Sp.@0'-9 — 6 Sp.@1'-0 — 10 Sp.@0'-9 — 14 Sp.@0'-7 — 17 Sp.@0'-6 — 18 Sp.@0'-5 — 24 Sp.@0'-4 — GC6SB

9 9/16 — 25 Sp.@0'-4 — 23 Sp.@0'-5 — 16 Sp.@0'-6 — 16 Sp.@0'-7 — 11 Sp.@0'-9 — 10 Sp.@1'-0 — 11 Sp.@0'-9 — 16 Sp.@0'-7 — 16 Sp.@0'-6 — 20 Sp.@0'-5 — 25 Sp.@0'-4 — GB6SB



11 1/16 — 25 Sp.@0'-4 — 23 Sp.@0'-5 — 20 Sp.@0'-6 — 12 Sp.@0'-7 — 12 Sp.@0'-8 — 10 Sp.@0'-10 — 11 Sp.@1'-0 — 10 Sp.@0'-10 — 12 Sp.@0'-8 — 12 Sp.@0'-7 — 20 Sp.@0'-6 — 23 Sp.@0'-5 — 25 Sp.@0'-4 — GB6NB





TYP. SECTION

NOTE:

Shop adjustment may be made in stud spacing @ Flange Butt Weld.

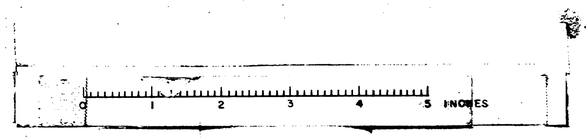
SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT	REMARKS
	7944	Shop	7/8 ϕ Stud	0	5		
			Iten 705-17				

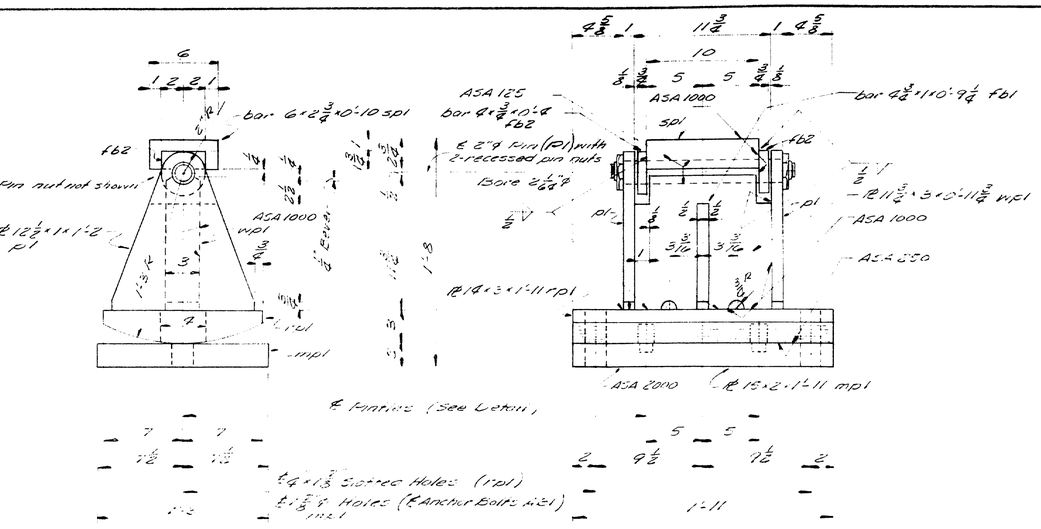
SHOP PAINT COAT
FIELD CONNECTIONS
PIERS
PAINT

SPANS 6-7 & 3 SB & 6 & 7 NB
STUD DETAILS & D.L.N. & GIRDERS
Maine State Highway Dept.
Augusta, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.S. SNODGRASS, INC.
DESIGNER MAINE S. H. C. BRIDGE DIV.
ORDER NO VERBAL — DWG. NO 63-5-S24

DRAWN	2-21-63	RGM
REVISION		
REVISION		
REVISION		

89-154



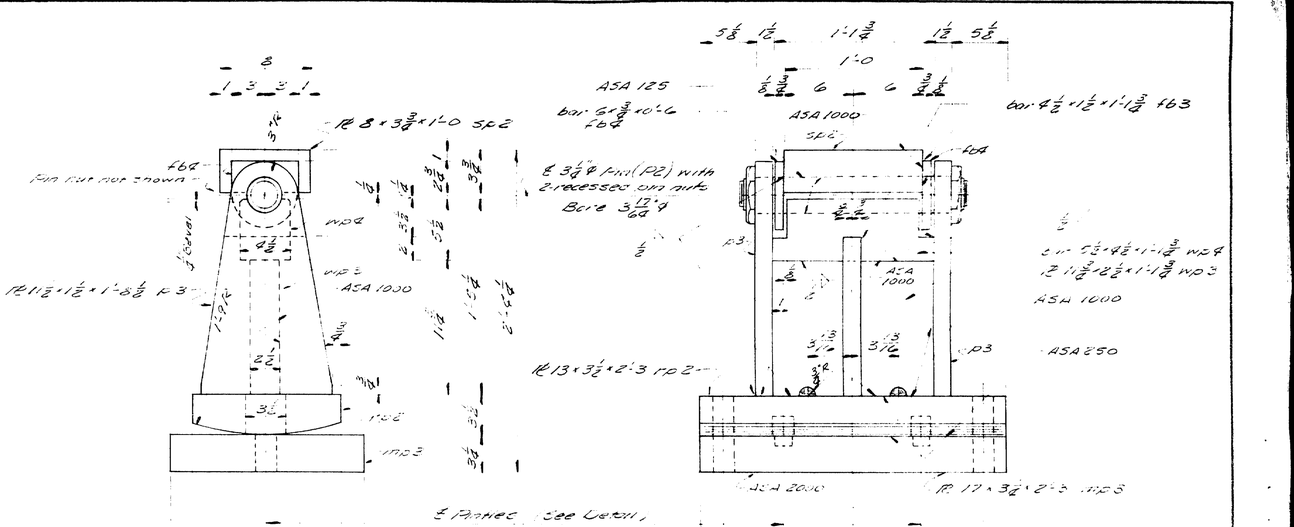


EXPANSION PEDESTAL - ABUTMENT 1

EP1 4 REQ'D.

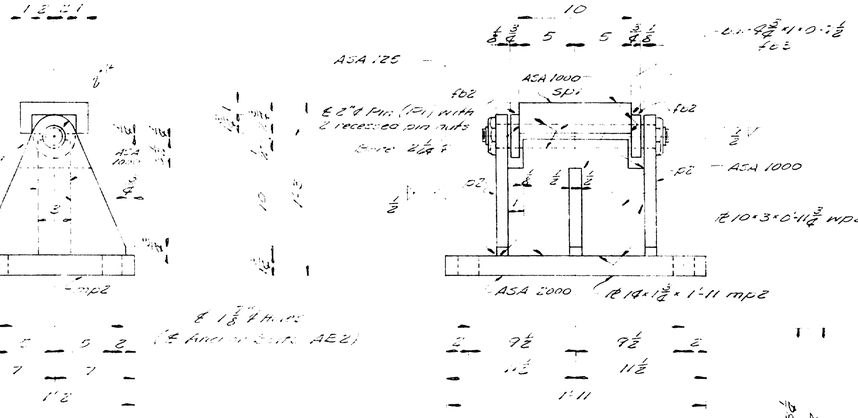
NOTE

Quantities shown are for One Bridge.
Suffix SB. to be added to Southbound Pedestals. (Bill of Material on Sht.5)
Suffix NB. to be added to Northbound Pedestals. (Bill of Material on Sht.6)



EXPANSION PEDESTAL PIERS 1, 2, 3 & 4

EP2 16 REQ'D.

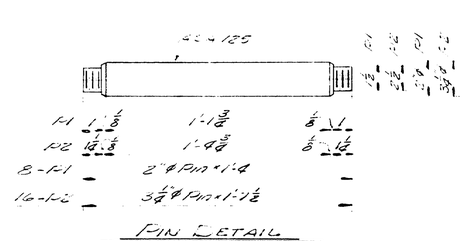


FIXED PEDESTAL - PIER 5, SPAN 5

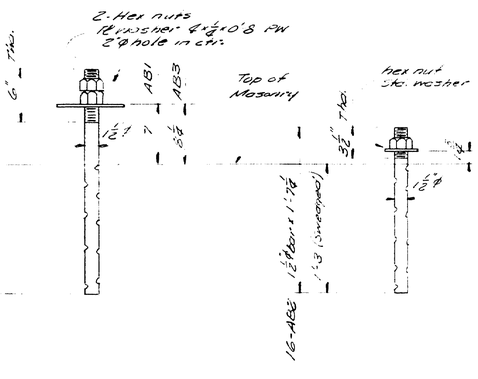
FP1 4 REQ'D.

PAINT NOTE

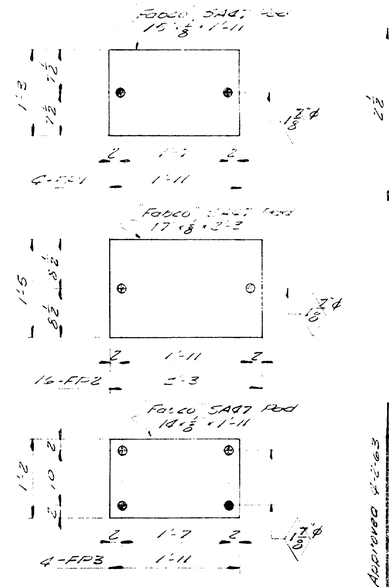
No paint on surfaces finished ASA 125 or ASA 250. Coat with hot mixture of white lead and tallow.
No paint on top surface and 3/4" down from top surface spl and spe.
No paint on Anchor Bolts, Oil Threads.



PIN DETAIL



ANCHOR BOLTS



PINTLE DETAIL

SPANS 1 TO 5 N.B. & S.B.

PEDESTAL DETAIL

Bancroft & Martin Rolling Mills Company
South Portland, Maine

CLINTON A. CLAUSON MEMORIAL BRIDGE
FAIRFIELD, MAINE.

CUSTOMER E.C. SNODGRASS, INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. Verbal DWG NO. 63-5-531

DRAWN	5-1263	M.L.
REVISION		
REVISION		
REVISION		

APPROVED 5-12-63

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
EPI S.B.	4		EXPANSION PEDESTAL - ABUT. 1				
	4	mp1	PL 15 x 2	1	11		A36
	4	rp1	PL 19 x 3	1	11		A36
	4	wp1	PL 11 3/8 x 3	0	11 3/8		A36
	4	sp1	bar 6 x 12 3/8	0	10		A36 Field weld to Girder
	8	fb1	bar 8 3/8 x 1	0	9 1/4		
	8	fb2	bar 8 x 3/8	0	8		
	8	p1	PL 12 1/2 x 1	1	2		
EP1 S.B.	4		FIXED PEDESTAL - Pier 5, SPAN 5				
	4	mp2	PL 18 x 1 3/8	1	11		A36
	4	wp2	PL 10 x 3	0	11 3/8		A36
	4	sp1	bar 6 x 2 3/8	0	10		A36 Field Weld to Girder
	8	fb3	bar 6 3/8 x 1	0	7 1/2		
	8	p2	PL 12 3/8 x 1	1	0 1/2		
	8	fb2	bar 8 x 3/8	0	8		
EP2 S.B.	16		EXPANSION PEDESTAL				PIERS 1, 2, 3 & 4.
	16	mp3	PL 17 x 3 1/2	2	3		A36
	16	rp2	PL 13 x 3 1/2	2	3		A36
	16	wp3	PL 11 3/8 x 12 1/2	1	11 3/8		A36
	16	wp4	bar 5 1/2 x 4 1/2	1	1 3/8		A36
	16	sp2	PL 8 x 3 3/8	1	0		A36 Field Weld to Girder
	32	fb3	bar 6 1/2 x 1 1/2	1	1 3/8		
	32	p3	PL 11 1/2 x 1 1/2	1	8 1/2		
	32	fb4	bar 6 x 3/8	0	6		
	40	a1	bar 1 1/8" ø	0	2 1/2		
	8	P1	2" ø pin	1	9		A 235 Class C for A 708 Grade 1016 to 1030 inch
	16	P2	3 1/4 ø pin	1	7 1/2		do
A81	8		1 1/8 ø bar	2	2		
A82	16		do	1	7 1/2		
A83	32		do	2	3 1/4		
	96	Shop	1 1/8" Hex. Nut				
PW	40		bar 8 x 8	0	8		Plate washer 1 1/8 hole in ctr.
F240	16		1 1/8" STD Fe Washer				
EP1	8		Pad 15 x 1/2	1	11		Fabco Pad SA870 EP1 S.B.
EP2	16		Pad 17 x 1/2	2	3		do do @ EP2 S.B.
EP3	8		Pad 10 x 1/2	1	11		do do @ EP1 S.B. Eq. # 9294 (4-10-63)
			NOTE: Allowance to be made for machining when cutting above plates.				
			STRUCTURAL STEEL ITEM 702.103B				

For Details see Dwg. S31

SCALE WEIGH

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: As noted
PAINT: Per Maine Specs #os noted.

SPANS 1 TO 5 S.B.

PEDESTAL DETAIL

Bancroft & Martin Inc.
South Portland 7, Maine

APR 4-2-63

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

DRAWN	3-12-63	H.L.
REVISION		
REVISION		
REVISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 63-5-S 31S

89-135 a

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
EPI N.B.	4		EXPANSION PEDESTAL - ABUT. 1				
	4	mp1	PL 15×2	1	11		A36
	4	rp1	PL 18×3	1	11		A36
	4	wp1	PL $11\frac{3}{8}$×3	0	$11\frac{3}{8}$		A36
	4	sp1	bar 6×$2\frac{3}{8}$	0	10		A36 field weld to girder
	8	fb1	bar $4\frac{3}{8}$×1	0	$9\frac{1}{2}$		
	8	fb2	bar 4×$\frac{3}{8}$	0	4		
	8	p1	PL $12\frac{1}{2}$×1	1	2		
EP1 N.B.	4		FIXED PEDESTAL - PIER 5, SPAN 5				
	4	mp2	PL 18×1$\frac{3}{8}$	1	11		A36
	4	wp2	PL 18×3	0	$11\frac{3}{8}$		A36
	4	sp1	bar 6×$2\frac{3}{8}$	0	10		A36 field weld to girder
	8	fb3	bar $4\frac{3}{8}$×1	0	$7\frac{1}{2}$		
	8	p2	PL $12\frac{1}{2}$×1	1	$0\frac{1}{2}$		
	8	fb2	bar 4×$\frac{3}{8}$	0	4		
EP2 N.B.	16		EXPANSION PEDESTAL - PIERS 1, 2 & 4				
	16	mp3	PL 17×3$\frac{1}{2}$	2	3		A36
	16	rp2	PL 13×3$\frac{1}{2}$	2	3		A36
	16	wp3	PL $11\frac{3}{8}$×$2\frac{1}{2}$	1	$1\frac{3}{8}$		A36
	16	wp4	bar $3\frac{1}{2}$×$\frac{1}{2}$	1	$1\frac{3}{8}$		A36
	16	sp2	PL 8×$3\frac{3}{8}$	1	0		A36 field weld to girder
	32	fb3	bar $4\frac{1}{2}$×$1\frac{1}{2}$	1	$0\frac{1}{2}$		
	32	p3	PL $11\frac{1}{2}$×$1\frac{1}{2}$	1	$8\frac{1}{2}$		
	32	fb4	bar 6×$\frac{3}{8}$	0	6		
	40	d1	bar $1\frac{1}{2}$"ø	0	$2\frac{1}{2}$		A325 class C or A103 Grade 1016 to 1030 inch.
	8	P1	2"ø pin	1	0		do
	16	P2	$3\frac{1}{2}$"ø pin	1	$7\frac{1}{2}$		do
AB1	8		$1\frac{1}{2}$"ø bar	2	2		
AB2	16		do	1	$7\frac{1}{2}$		
AB3	32		do	2	$3\frac{1}{2}$		
	96	Snap	$1\frac{1}{2}$" Hex nut				
PW	40		bar 9×$\frac{3}{8}$	0	8		Plate washer 2"ø hole c'tr.
Field	16		$1\frac{1}{2}$" STD washer				
							Req # 9298 (4-10-63)
FP1	4		Pad 15×$\frac{3}{4}$	1	11		Tabco Pad SA476 Type 316 S.S.
FP2	16		Pad 17×$\frac{3}{4}$	2	3		do do & EP2 N.B.
FP3	4		Pad 19×$\frac{3}{4}$	1	11		do do & EP1 N.B.
	NOTE. Allowance to be made for machining when cutting above plates.						
	STRUCTURAL STEEL ITEM 702.103 B						

For Details see Dwg. S 31

SCALE WEIGH

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: As noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 N.B.

PEDESTAL DETAIL

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

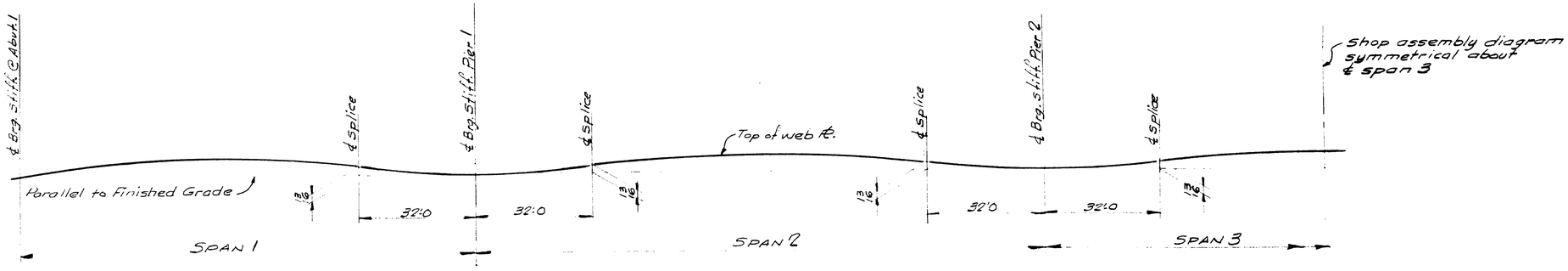
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S 31N

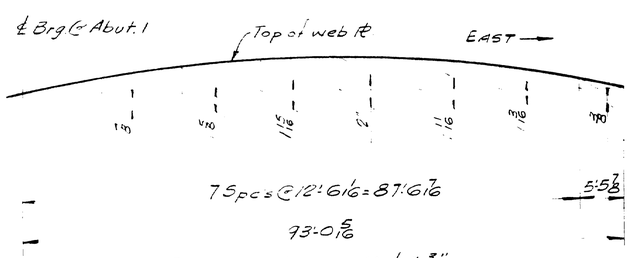
APP'D 4.2.63

DRAWN	3-12-63	H.L.
REVISION		
REVISION		
REVISION		

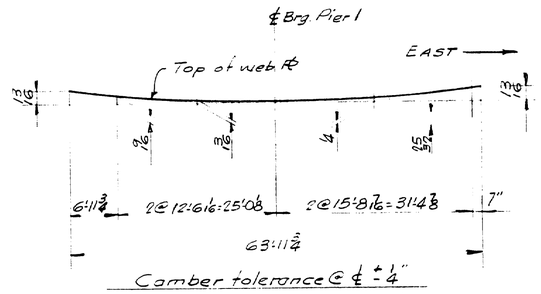
89-135 A B



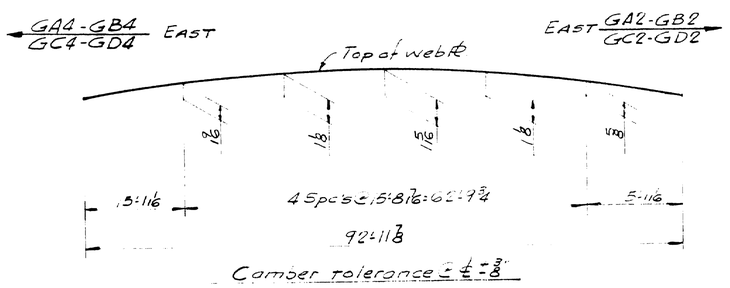
SHOP ASSEMBLY DIAGRAM
for All Girder lines



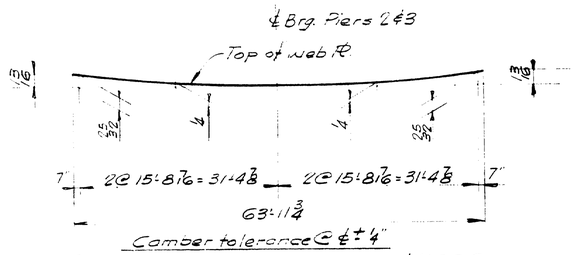
GIRDERS GA1 - GB1 - GC1 & GD1



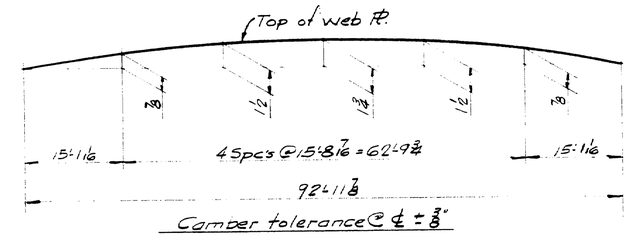
GIRDERS HGA1 - HGB1 - HGC1 & HGD1



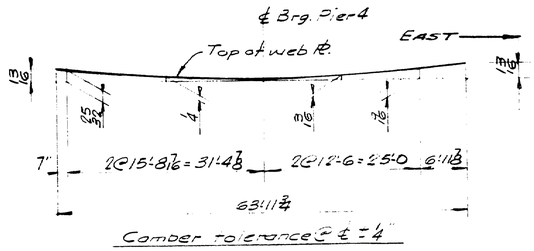
GIRDERS GA2 - GB2 - GC2 & GD2
GA4 - GB4 - GC4 & GD4



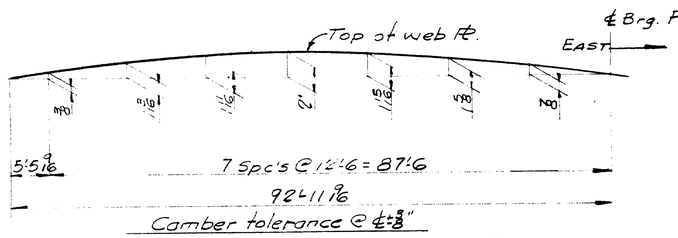
GIRDERS HGA2 - HGB2 - HGC2 & HGD2
HGA3 - HGB3 - HGC3 & HGD3



GIRDERS GA3 - GB3 - GC3 & GD3



GIRDERS HGA4 - HGB4 - HGC4 & HGD4



GIRDER GA5 - GB5 - GC5 & GD5

CAMBER DIAGRAMS

Cambers shown are finished cambers.
No allowances shown for shrinkage due to welding.
The ends of girders shall be cut normal to flanges unless otherwise detailed.

SPANS 1 TO 5 S.B. & N.B.

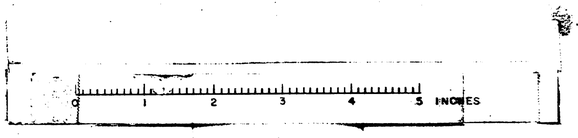
CAMBER DIAGRAMS

Dimond & Norton Valley Pilot company
Clinton A. Clauson Mem. Bridge
Fairfield, Maine

DRAWN	2-13-63 J.P.F.	
TRACED		
REVISION		
REVISION		

CONSULTING E. C. SNODGRASS INC.
DESIGNED MAINE S.H.C. BRIDGE DIV.
ORDER NO VERBAL PROJ. NO 63-5-532

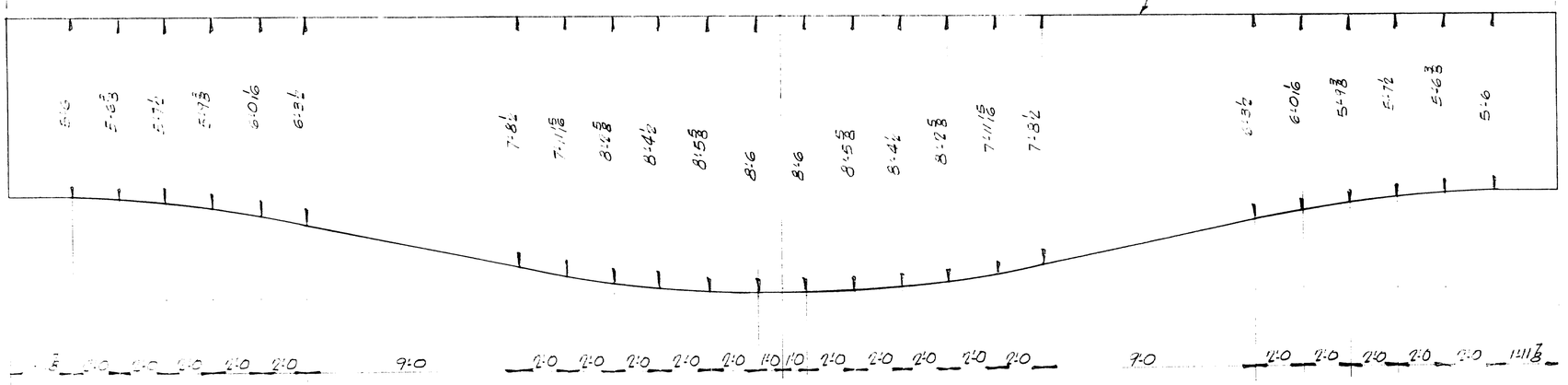
APR 3 '63



31-11 3/8

31-11 3/8

Top of Web Pl. For Camber Diagram see Dwg. 532



Cut From Pl. 104½ × ½ × 64'-2

Ends of Pl. to be normal to top edge of Pl.

SPANS 1 TO 5 S.B. & N.B.

WEB PLATES pW7 & pW7a

Fabricated by Harton Welding Artist Company

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

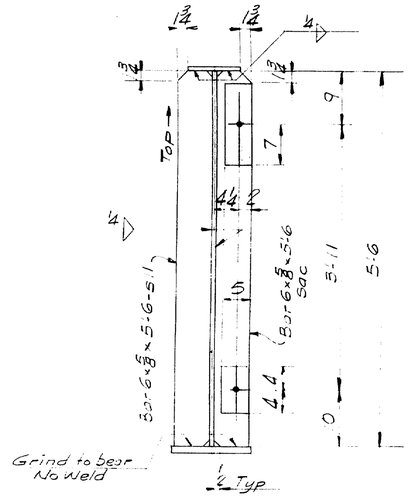
CUSTOMER E.C. SNODGRASS INC.

DESIGNER MAINE S.H.C. BRIDGE DIV.

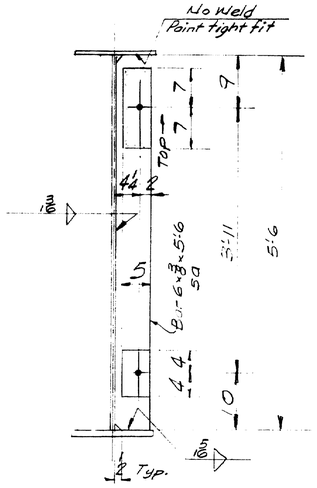
ORDER NO. VERBAL L.N. NO. 63-5-532A

APP'D. 2-21-63

DRAWN	2-21-63	J.P.F.
REVISION		
REVISION		
REVISION		



Typ. Detail @ s11 & s1c



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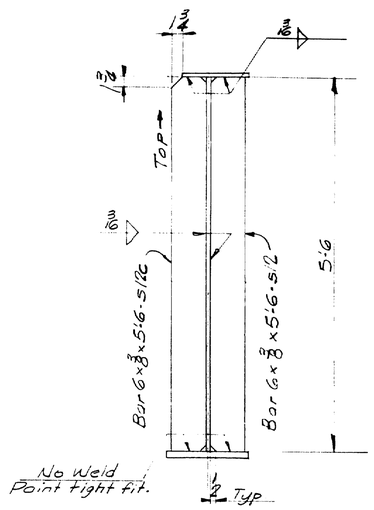
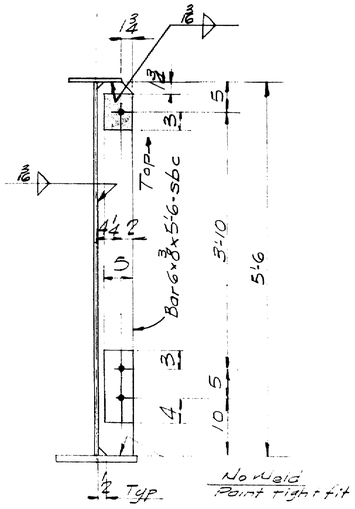
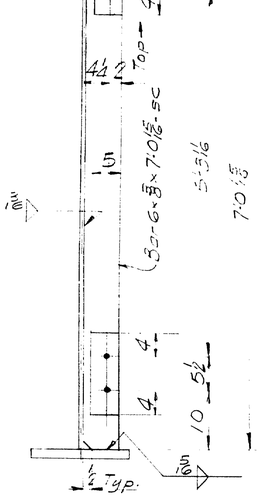


Typ Detail @ s12c & s12



Typ Detail @ sbc



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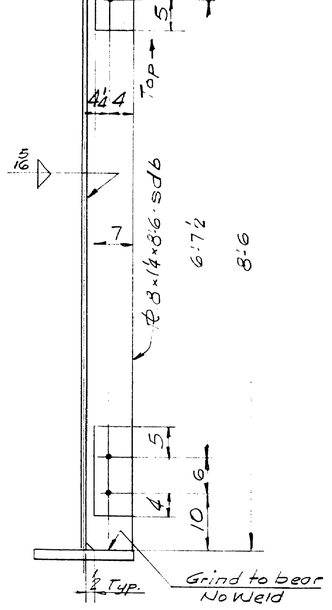
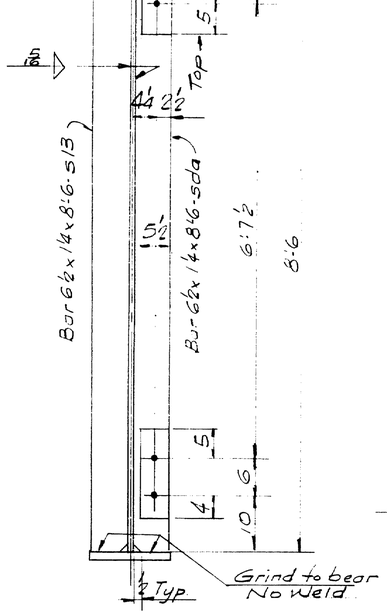
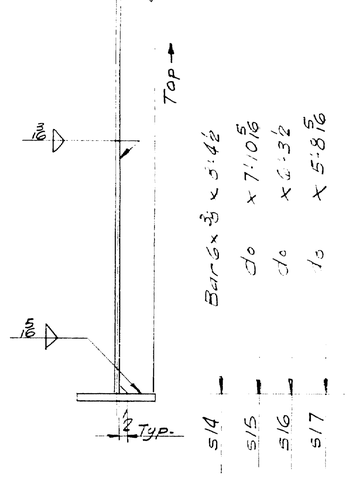


Typ. Detail @ sdb



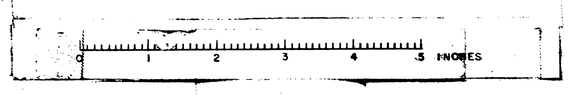
Typ. Detail @ sda & s13

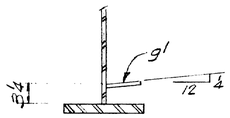


Typ Detail @ s14·s15·s16 & s17

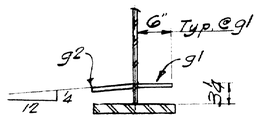
Notes
Notes ℄ ⌀
There shall be No Paint on S & F.S. or stiffeners @ shaded areas. See Note on Dwg. W1 for welding of bearing stiffeners s1-su11-sda-s13 & s13
All stiffeners to be normal to flanges.

SPANS 1 TO 5 S.B. & N.B.
STIFFENER DETAILS
Prepared by Morton-Gillespy Welded Company
Portland, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS, INC.
DESIGNED MAINE S.H.C. BRIDGE DIV.
ORDER NO VERBAL 63-5-S33
DRAWN 2-14-63 J.R.F.
REVISION
REVISION
REVISION
APP. 3-27-63

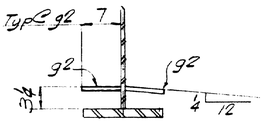




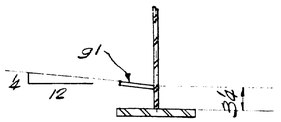
D1-D1



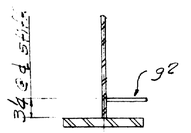
C1-C1



B1-B1



A1-A1



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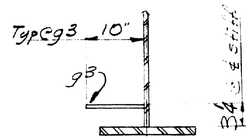
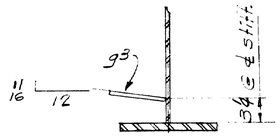


C2-C2



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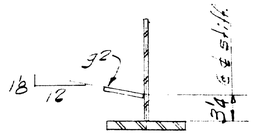

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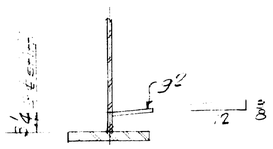
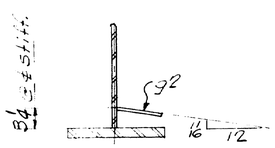


D3-D3



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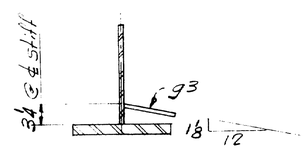

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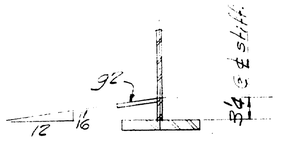

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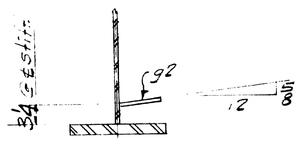

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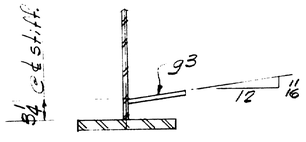
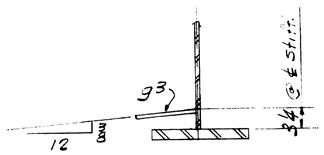
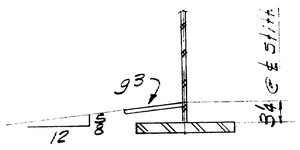


B4-B4



C5-C5



B5-B5

Stiffeners not shown

There shall be No Point on gussets g1, g2 & g3

SPANS 1 TO 5 S.B. & N.B.

GIRDER SECTIONS

Designed by Harding Ketting Welch Company
Boston, Portland & Maine

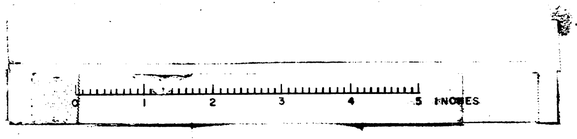
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

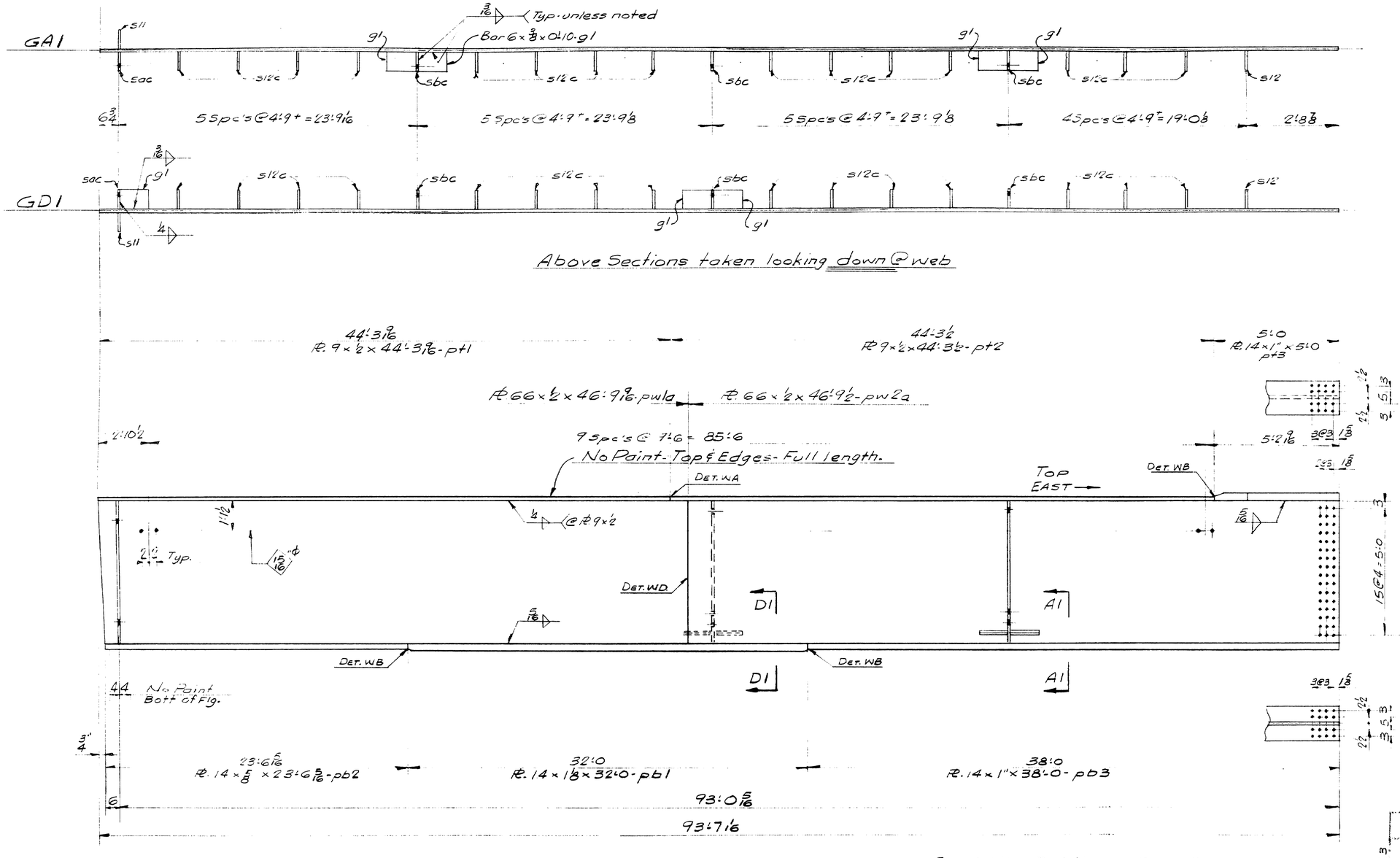
CUSTOMER E. C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO 63-5-S34

APP. 3-21-63

DRAWN	3-1-63	J.P.F.	
REVISION			
REVISION			
REVISION			



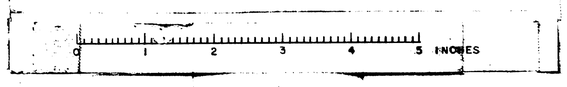


GIRDER GA 1 - ONE REQ'D. - AS NOTED
GIRDER GD 1 - ONE REQ'D. - AS NOTED

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S355)
do NB do do North Bound do (do do S35 N)

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S32.
For Stiffener Details see Dwg. S33.
For Stud Layout see Dwg. S47
For Sections not shown see Dwg. S34

SPANS 1 TO 5 S.B. & N.B.
GIRDERS GA1 & GD1
Prepared under the supervision of
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CONTRACTOR: E.C. SNODGRASS INC.
DESIGNED: MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DATED 63-5-535
APP'D 3-27-63
DRAWN 2-15-63 J.P.F.
REVISION
REVISION
REVISION



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GA1SB	1		GIRDER	93 7/16	—	
GD1SB	1		Do	93 7/16	—	
	2	pw1a	PL 66 × 1/2	46 9 7/16		
	2	pw2a	Do	46 9 1/2		
	2	pt1	PL 9 × 1/2	44 3 7/16		
	2	pt2	Do	44 3 1/2		
	2	pt3	PL. 14 × 1"	5 0		
	2	pb1	PL 14 × 1 1/8	32 0		
	2	pb2	PL 14 × 5/8	23 6 5/16		
	2	pb3	PL 14 × 1"	38 0		
	2	s11	Bar 6 × 5/8	5 6 1/2		
	2	s2c	Do	5 6 1/2		
*	6	s6c	Bar 6 × 3/8	5 6		
**	2	s12	Do	5 6		
**	30	s12c	Do	5 6		
*	7	g1	Do	0 10		

AN Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.108B

For Details see Dwg. S35

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 S.B.

GIRDERS GA1SB & GD1SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S35S

DRAWN	2-18-63	J.P.F.	
REVISION			
REVISION			
REVISION			

APP. 3-29-63

89-139 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GAINB	1		GIRDER	93 7/16	—	
GDINB	1		Do	93 7/16	—	
	2	pw1a	PL 66 × 1/2	46 9 7/16		
	2	pw2a	Do	46 9 1/2		
	2	pt1	PL 9 × 1/2	44 3 7/16		
	2	pt2	Do	44 3 1/2		
	2	pt3	PL 14 × 1"	5 0		
	2	pb1	PL 14 × 1 1/8	32 0		
	2	pb2	PL 14 × 5/8	23 6 5/16		
	2	pb3	PL 14 × 1"	38 0		
	2	s11	Bar 6 × 5/8	5 6 1/2		
	2	s2c	Do	5 6 1/2		
*	6	s6c	Bar 6 × 3/8	5 6		
**	2	s12	Do	5 6		
**	30	s12c	Do	5 6		
*	7	g1	Do	0 10		

AN Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. S35

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 N.B.

GIRDERS GAINB & GDINB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S35N

DRAWN	2-18-63	J.P.F.	
REVISION			
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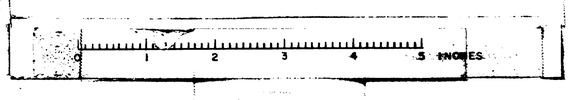
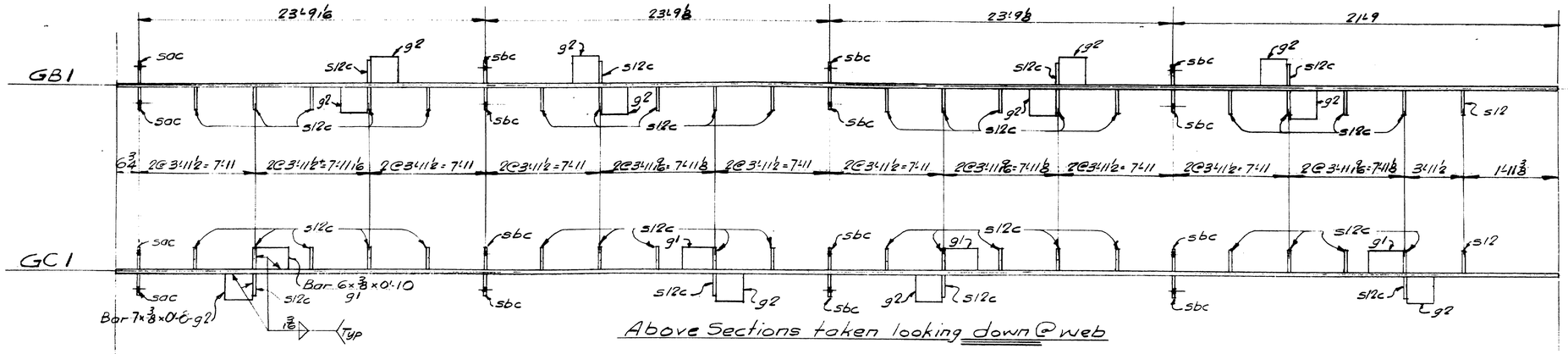
REVISION			

APP. 3-29-63

89-139 B





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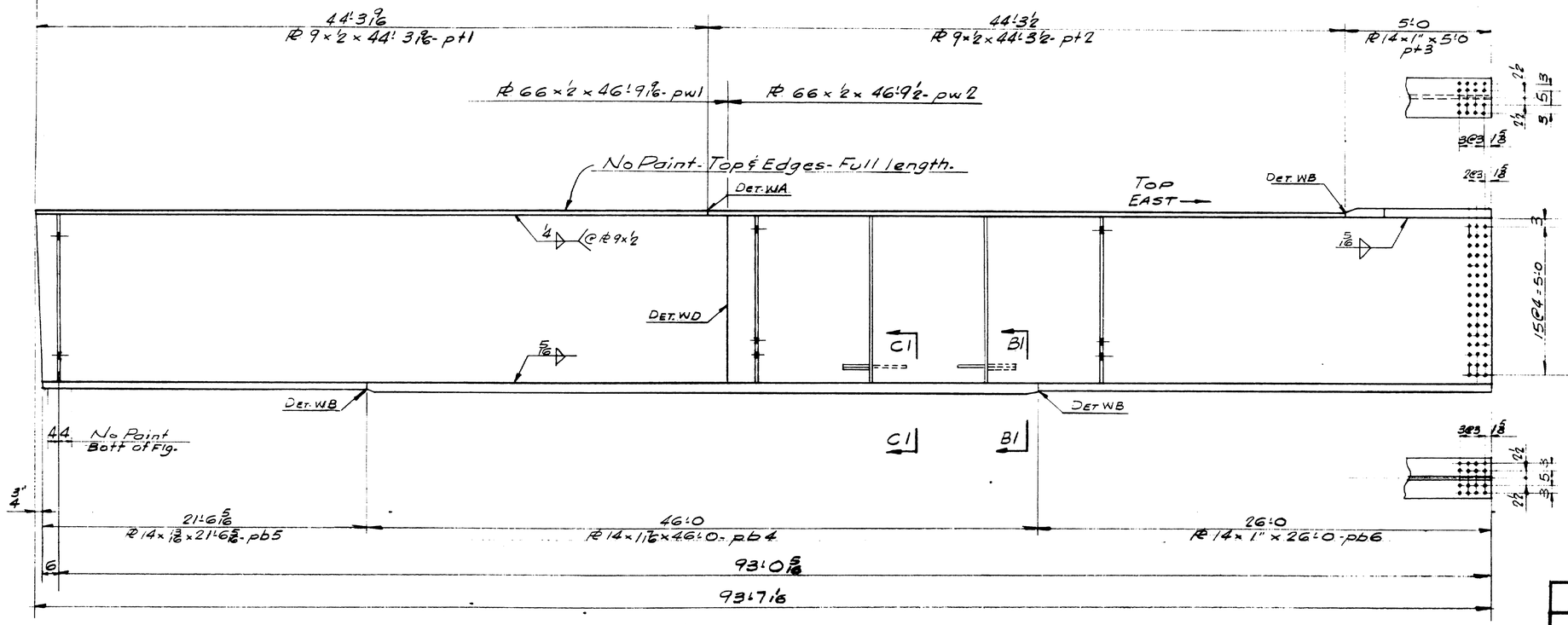


GIRDER GB1 - ONE REQ'D. - AS NOTED
GIRDER GC1 - ONE REQ'D. - AS NOTED

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S365)
do NB do do North Bound do (do do S36 N)

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S32.
For Stiffener Details see Dwg. S33.
For Stud Layout see Dwg. S47
For Sections not shown see Dwg. S34

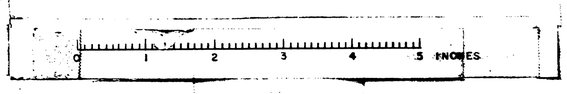
SPANS 1 TO 5 S.B. & N.B.
GIRDERS GB1 & GC1
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
APP. 3.29.63

DRAWN	2-15-63	J.R.F.
REVISION		
REVISION		
REVISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 63-5-S36

89-140

MODERN BLUE PRINT CO.



oHIP **BILL OF MATERIAL** DWG. NO. ~~63-5-S36S~~

MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GB1SB	1		GIRDER	93 7/16	—	
GC1SB	1		Do	93 7/16	—	
	2	pw1	PL 66 × ½	46 9/16		
	2	pw2	Do	46 9½		
	2	pt1	PL 9 × ½	44 3/16		
	2	pt2	Do	44 3½		
	2	pt3	PL 14 × 1"	5 0		
	2	pb4	PL 14 × 1 7/16	46 0		
	2	pb5	PL 14 × 1 3/16	21 6 5/16		
	2	pb6	PL 14 × 1"	26 0		
	4	sac	Bar 6 × 5/8	5 6 6/8		
*	12	sbc	Bar 6 × 3/8	5 6		
*	2	sl2	Do	5 6		
*	46	sl2c	Do	5 6		
*	4	g1	Do	0 10		
*	12	g2	Bar 7 × 3/8	0 8		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 536

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 15/16" ϕ as noted
PAINT: Per Maine Specs ϕ as noted.

SPANS 1 TO 5 S.B.

GIRDERS GB1SB & GC1SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S36S

DRAWN	2-18-63	J.P.F.
REVISION		
REVISION		
REVISION		

ADD 3-29-63

89-140 A

oHIP **BILL OF MATERIAL** DWG. NO. ~~63-5-S36N~~

MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
GB1NB	1		GIRDER	93 7 1/16	—	
GC1NB	1		Do	93 7 1/16	—	
	2	pw1	PL 66 × ½	46 9/16		
	2	pw2	Do	46 9½		
	2	pt1	PL 9 × ½	44 3/16		
	2	pt2	Do	44 3½		
	2	pt3	PL 14 × 1"	5 0		
	2	pb4	PL 14 × 1 7/16	46 0		
	2	pb5	PL 14 × 1 3/16	21 6 5/16		
	2	pb6	PL 14 × 1"	26 0		
	4	sac	Bar 6 × 5/8	5 6 6/8		
*	12	sbc	Bar 6 × 3/8	5 6		
*	2	sl2	Do	5 6		
*	46	sl2c	Do	5 6		
*	4	g1	Do	0 10		
*	12	g2	Bar 7 × 3/8	0 8		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 536

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 15/16" ϕ as noted
PAINT: Per Maine Specs ϕ as noted.

SPANS 1 TO 5 N.B.

GIRDERS GB1NB & GC1NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

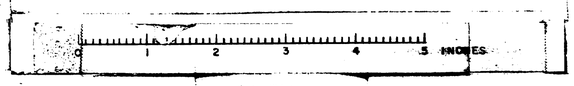
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

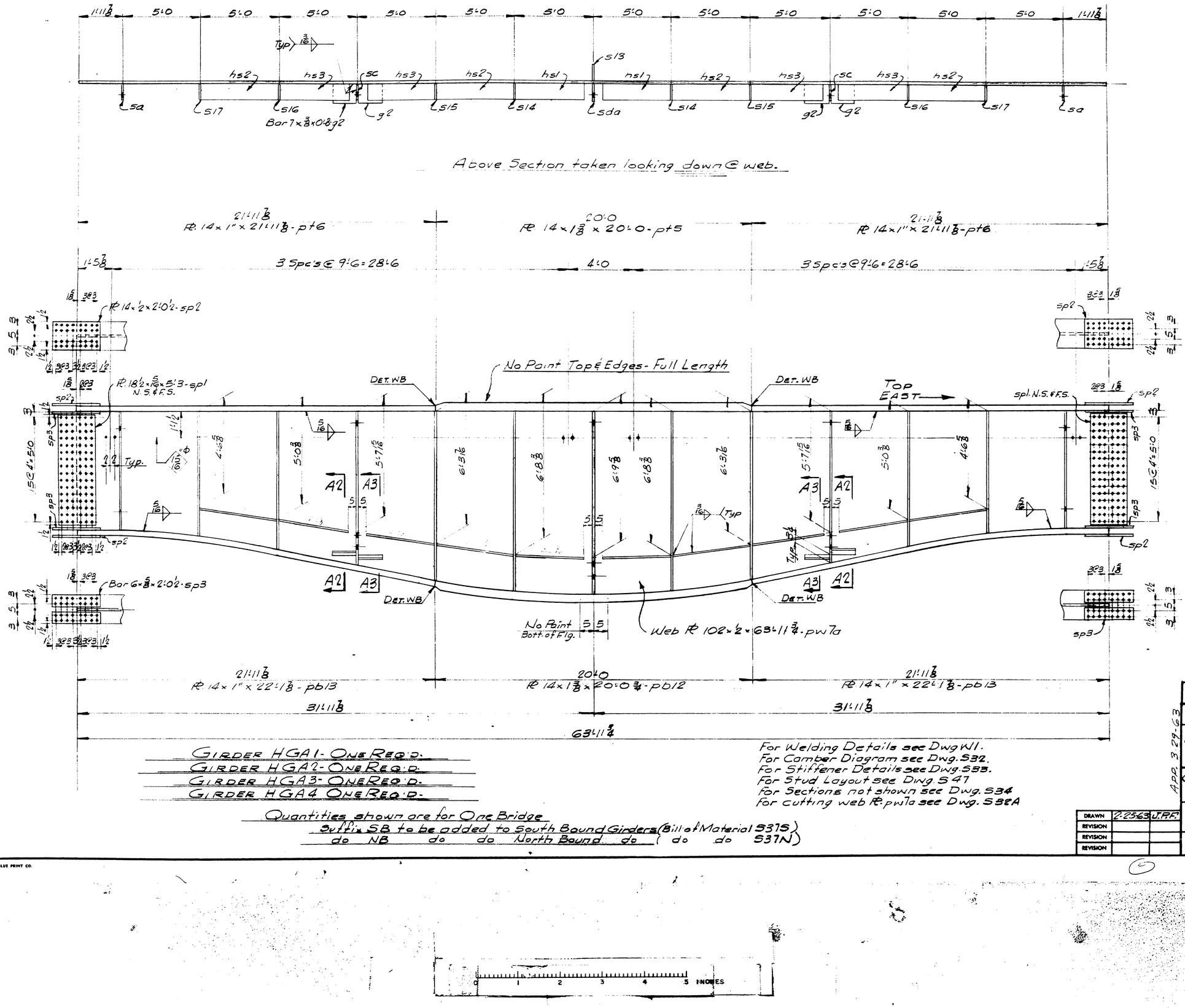
ORDER NO. VERBAL | DWG. NO. 63-5-S36N

DRAWN	4-18-63	J.P.F.
REVISION		
REVISION		
REVISION		

APR 3-29-63

89-140 B





GIRDER HGA1 - ONE REQ'D.
GIRDER HGA2 - ONE REQ'D.
GIRDER HGA3 - ONE REQ'D.
GIRDER HGA4 ONE REQ'D.

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S33S)
do NB do do North Bound do (do do S37N)

For Welding Details see Dwg W1.
For Camber Diagram see Dwg. S32.
For Stiffener Details see Dwg. S33.
For Studs Layout see Dwg. S41
For Sections not shown see Dwg. S34
For cutting web Pl: pw7a see Dwg. S32A

SPANS 1 TO 5 S.B. & N.B.
GIRDERS HGA1 - HGA2 HGA3 - HGA4
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER F.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 635-S37

DRAWN	2-25-63	J.F.P.
REVISION		
REVISION		
REVISION		

APP. 3-29-63

6

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MODERN BLUE PRINT CO.

BILL OF MATERIAL

DWG. NO. 63-5-S37S

MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
HGA1 SB	1		GIRDER	63 11¾	—	
HGA2 SB	1		Do	63 11¾	—	
HGA3 SB	1		Do	63 11¾	—	
HGA4 SB	1		Do	63 11¾	—	
	4	pw1a	PL 102 x ½	63 11¾		
	4	pt5	PL 14 x 1⅜	20 0		
	8	pt6	PL 14 x 1"	21 11⅞		
	4	pb12	PL 14 x 1⅜	20 0¾		
	8	pb13	PL 14 x 1"	22 1⅞		
	4	s13	Bar 6½ x 14	8 6⅝		
	4	sda	Do	8 6⅝		
	16	sp1	PL 18½ x 5/16	5 3		
	16	sp2	PL 14 x ½	2 0½		
	32	sp3	Bar 6 x ⅝	2 0½		
*	8	sa	Bar 6 x ⅞	5 6		
*	8	sc		7 0 15/16		
*	8	s14		8 4½		
*	8	s15		7 10 5/16		
*	8	s16		6 3½		
*	8	s17		5 8 5/16		
*	8	hs1		4 6 7/16		
*	16	hs2		4 11 3/16		
*	16	hs3	Bar 6 x ⅜	4 7⅛		
*	16	g2	Bar 7 x ⅜	0 8		
FIELD	800		⅞" ø H.S. BOLTS	0 2¾		@ Web (768)
Do	540		Do	0 3¾		@ Flgs. (512)
Do	2680		⅞" ø HARD WASHERS			

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S37

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ø as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 S.B.

GIRDERS HGA1SB-HGA2SB HGA3SB-HGA4SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 63-5-S37S

DRAWN	2-26-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP. 3-29-63

89-141 A

BILL OF MATERIAL

DWG. NO. 63-5-S37N

MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
HGA1 NB	1		GIRDER	63 11¾	—	
HGA2 NB	1		Do	63 11¾	—	
HGA3 NB	1		Do	63 11¾	—	
HGA4 NB	1		Do	63 11¾	—	
	4	pw1a	PL 102 x ½	63 11¾		
	4	pt5	PL 14 x 1⅜	20 0		
	8	pt6	PL 14 x 1"	21 11⅞		
	4	pb12	PL 14 x 1⅜	20 0¾		
	8	pb13	PL 14 x 1"	22 1⅞		
	4	s13	Bar 6½ x 14	8 6⅝		
	4	sda	Do	8 6⅝		
	16	sp1	PL 18½ x 5/16	5 3		
	16	sp2	PL 14 x ½	2 0½		
	32	sp3	Bar 6 x ⅝	2 0½		
*	8	sa	Bar 6 x ⅞	5 6		
*	8	sc		7 0 15/16		
*	8	s14		8 4½		
*	8	s15		7 10 5/16		
*	8	s16		6 3½		
*	8	s17		5 8 5/16		
*	8	hs1		4 6 7/16		
*	16	hs2		4 11 3/16		
*	16	hs3	Bar 6 x ⅜	4 7⅛		
*	16	g2	Bar 7 x ⅜	0 8		
FIELD	800		⅞" ø H.S. BOLTS	0 2¾		@ Web (768)
Do	540		Do	0 3¾		@ Flgs. (512)
Do	2680		⅞" ø HARD WASHERS			

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S37

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ø as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 N.B.

GIRDERS HGA1NB-HGA2NB HGA3NB-HGA4NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 63-5-S37N

DRAWN	2-26-63	J.P.F.
REVISION		
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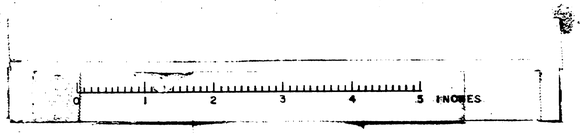
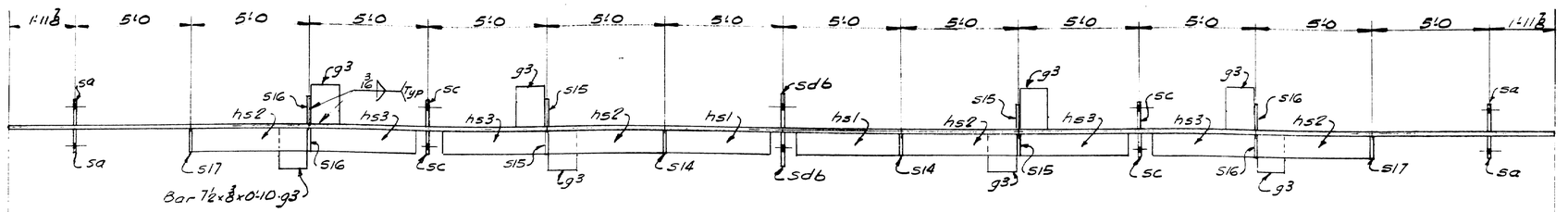
APP. 3-29-63

89-141 B





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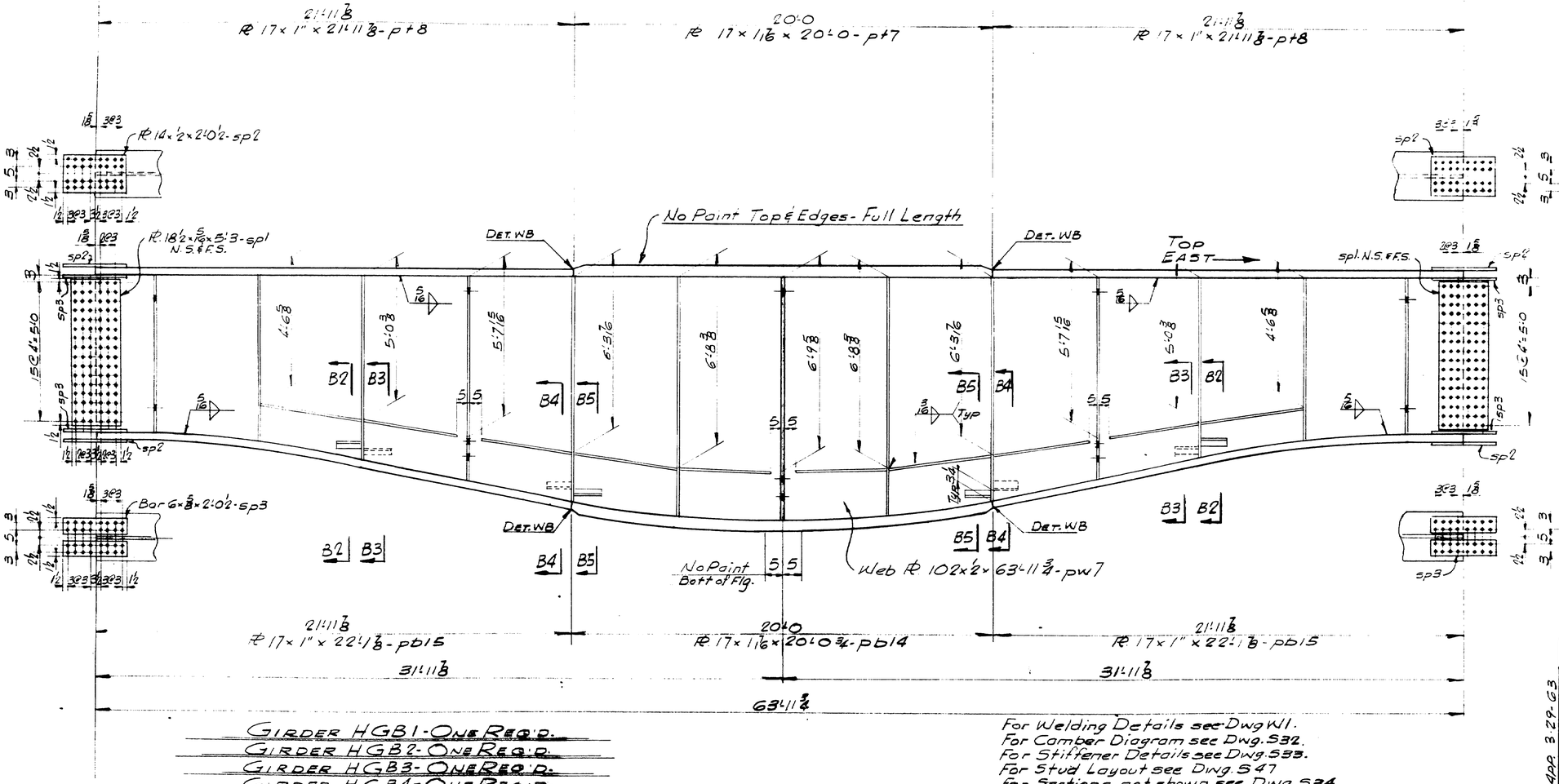


Splice Note 16 6

See Note 6 Dwg. E3

GIRDER HGB1 - ONE REQ'D.
GIRDER HGB2 - ONE REQ'D.
GIRDER HGB3 - ONE REQ'D.
GIRDER HGB4 - ONE REQ'D.

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S38S)
do NB do do North Bound do (do do S38N)

For Welding Details see Dwg W1.
For Camber Diagram see Dwg. S32.
For Stiffener Details see Dwg. S33.
For Stud Layout see Dwg. S47
For Sections not shown see Dwg. S34
For cutting web PL pw7 see Dwg. S38A

DRAWN	2-26-68	J.P.F.
REVISION		
REVISION		
REVISION		

SPANS 1 TO 5 S.B. & N.B.
GIRDERS HGB1 - HGB2
HGB3 - HGB4
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 635-538
APP. 3-29-68

89-142

MODERN BLUE PRINT CO.

BILL OF MATERIAL

DWG. NO. 63-5-S38S

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
HGB1 SB	1		GIRDER	63 11¾	—	
HGB2 SB	1		Do	63 11¾	—	
HGB3 SB	1		Do	63 11¾	—	
HGB4 SB	1		Do	63 11¾	—	
	4	pw7	PL 102 × ½	63 11¾		
	4	pt7	PL 17 × 11/16	20 0		
	8	pt8	PL 17 × 1"	21 11⅛		
	4	pb14	PL 17 × 11/16	20 0¾		
	8	pb15	PL 17 × 1"	22 1⅛		
	8	sdb	PL 8 × 1/4	8 6⅝		
	16	sp1	PL 18½ × 5/16	5 3		
	16	sp2	PL 14 × ½	2 0½		
	32	sp3	Bar 6 × ⅜	2 0½		
*	16	sa	Bar 6 × ⅜	5 6		
*	16	sc		7 0 5/16		
*	8	s14		8 4½		
*	16	s15		7 10 5/16		
*	16	s16		6 3½		
*	8	s17		5 8 5/16		
*	8	hs1		4 6 3/16		
*	16	hs2		4 11 3/16		
*	16	hs3	Bar 6 × ⅜	4 7⅝		
*	32	g3	Bar 7½ × ⅜	0 10		
FIELD	800		7/8 H.S. BOLTS	0 2¾		@ Web (76B)
Do	540		Do	0 3¾		@ Flg's (51B)
Do	2680		7/8 HARD WASHERS			

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S38

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 15/16" ϕ ¢ as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 S.B.

GIRDERS HGB1SB-HGB2SB HGB3SB-HGB4SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 63-5-S38S

DRAWN	2-26-62	J.P.F.
REVISION		
REVISION		
REVISION		

APP. 3-29-63

89-142 A

BILL OF MATERIAL

DWG. NO. 63-5-S38N

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
HGB1 NB	1		GIRDER	63 11¾	—	
HGB2 NB	1		Do	63 11¾	—	
HGB3 NB	1		Do	63 11¾	—	
HGB4 NB	1		Do	63 11¾	—	
	4	pw7	PL 102 × ½	63 11¾		
	4	pt7	PL 17 × 11/16	20 0		
	8	pt8	PL 17 × 1"	21 11⅛		
	4	pb14	PL 17 × 11/16	20 0¾		
	8	pb15	PL 17 × 1"	22 1⅛		
	8	sdb	PL 8 × 1/4	8 6⅝		
	16	sp1	PL 18½ × 5/16	5 3		
	16	sp2	PL 14 × ½	2 0½		
	32	sp3	Bar 6 × ⅜	2 0½		
*	16	sa	Bar 6 × ⅜	5 6		
*	16	sc		7 0 5/16		
*	8	s14		8 4½		
*	16	s15		7 10 5/16		
*	16	s16		6 3½		
*	8	s17		5 8 5/16		
*	8	hs1		4 6 3/16		
*	16	hs2		4 11 3/16		
*	16	hs3	Bar 6 × ⅜	4 7⅝		
*	32	g3	Bar 7½ × ⅜	0 10		
FIELD	800		7/8 H.S. BOLTS	0 2¾		@ Web (76B)
Do	540		Do	0 3¾		@ Flg's (51B)
Do	2680		7/8 HARD WASHERS			

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S38

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 15/16" ϕ ¢ as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 N.B.

GIRDERS HGB1NB - HGB2NB HGB3NB - HGB4NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

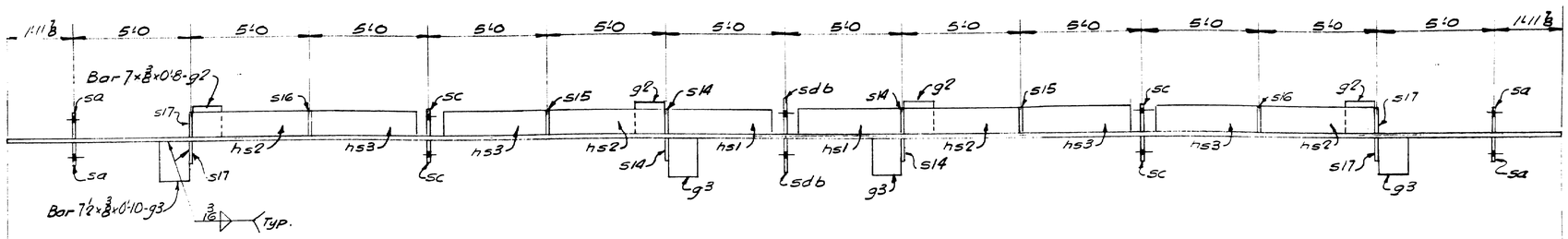
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 63-5-S38N

DRAWN	2-26-62	J.P.F.
REVISION		
REVISION		
REVISION		

APP. 3-29-63

89-142 B

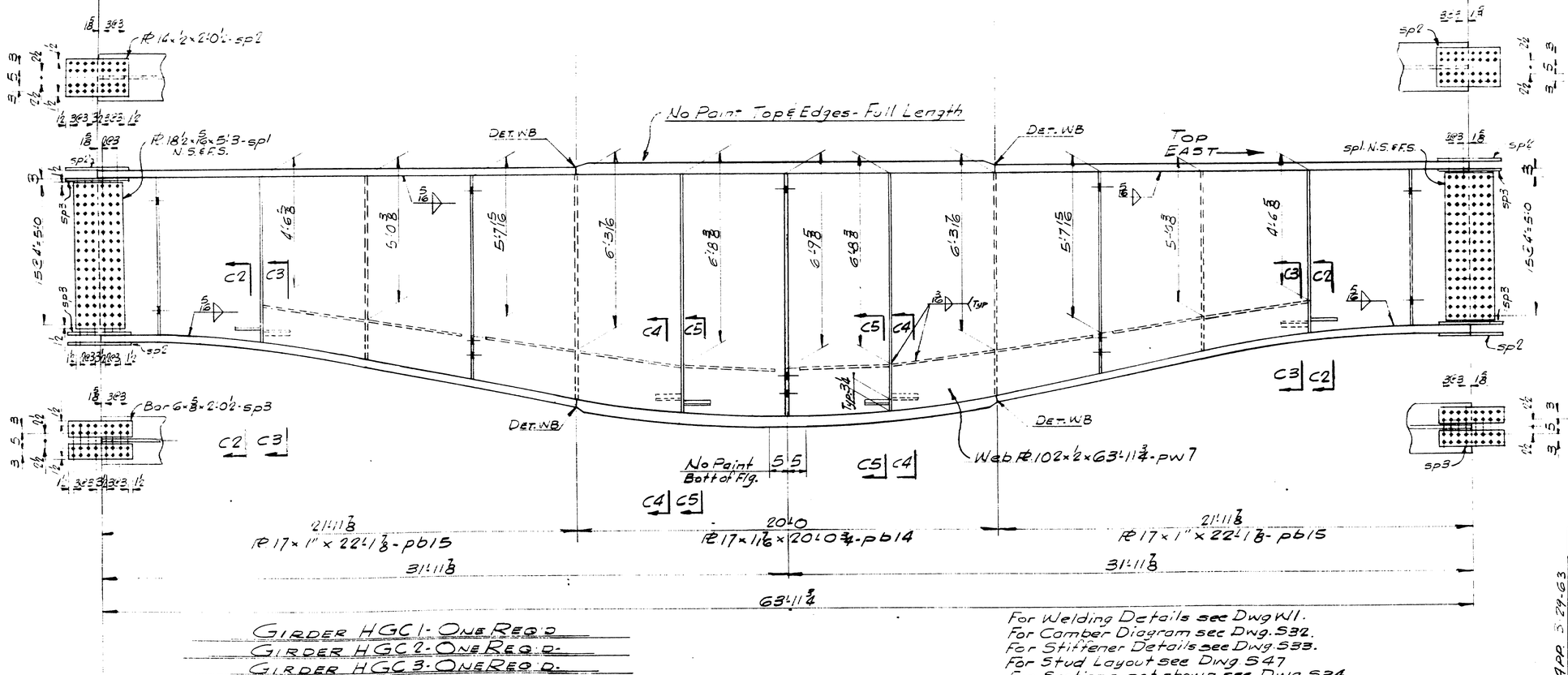


Above Section taken looking down @ web.

21'-11 3/8 — PL 17" x 1" x 21'-11 3/8" - pt 8

20'-0 — PL 17" x 1 1/16" x 20'-0" - pt 7

21'-11 3/8 — PL 17" x 1" x 21'-11 3/8" - pt 8



Splice Note 6

See Note 6 Dwg. E3

21'-11 3/8 — PL 17" x 1" x 22'-1 3/8" - pb 15

20'-0 — PL 17" x 1 1/16" x 20'-0 3/4" - pb 14

21'-11 3/8 — PL 17" x 1" x 22'-1 3/8" - pb 15

31'-11 3/8

31'-11 3/8

63'-11 3/4

GIRDER HGC 1 - ONE REQ'D.
GIRDER HGC 2 - ONE REQ'D.
GIRDER HGC 3 - ONE REQ'D.
GIRDER HGC 4 - ONE REQ'D.

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S39S)
do NB do do North Bound do (do do S39N)

For Welding Details see Dwg W1.
For Camber Diagram see Dwg. S32.
For Stiffener Details see Dwg. S33.
For Stud Layout see Dwg. S47.
For Sections not shown see Dwg. S34
For cutting web PL pw 7 see Dwg. S32A

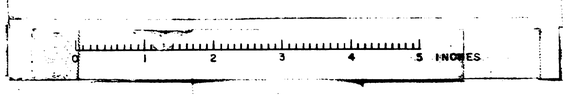
DRAWN	2-27-63	J.P.F.	
REVISION			
REVISION			
REVISION			

SPANS 1 TO 5 S.B. & N.B.
GIRDERS HGC1 - HGC2 HGC3 - HGC4
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
APP 3-29-63
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER F.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 635-S39

(L)

89-143

MODERN BLUE PRINT CO.



BILL OF MATERIAL

DWG. NO. 63-5-S39S

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
HGC1 SB	1		GIRDER	63 11 3/4	—	
HGC2 SB	1		Do	63 11 3/4	—	
HGC3 SB	1		Do	63 11 3/4	—	
HGC4 SB	1		Do	63 11 3/4	—	
	4	pw7	PL 102 × 1/2	63 11 3/4		
	4	pt7	PL 17 × 11 7/16	20 0		
	8	pt8	PL 17 × 1"	21 11 3/8		
	4	pb14	PL 17 × 11 7/16	20 0 3/4		
	8	pb15	PL 17 × 1"	22 1 3/8		
	8	sdb	PL 8 × 1/4	8 6 3/8		
	16	sp1	PL 18 1/2 × 7/16	5 3		
	16	sp2	PL 14 × 1/2	2 0 1/2		
	32	sp3	Bar 6 × 3/8	2 0 1/2		
*	16	sa	Bar 6 × 3/8	5 6		
*	16	sc		7 0 15/16		
*	16	s14		8 4 1/2		
*	8	s15		7 10 5/16		
*	8	s16		6 3 1/2		
*	16	s17		5 8 5/16		
*	8	hs1		4 6 3/16		
*	16	hs2		4 11 3/16		
*	16	hs3	Bar 6 × 3/8	4 7 3/8		
*	16	g2	Bar 7 × 3/8	0 8		
*	16	g3	Bar 7 1/2 × 3/8	0 10		
FIELD	800		7/8" ϕ H.S. BOLTS	0 2 3/4		℄ Web (768)
Do	540		Do	0 3 3/4		℄ Flg's (512)
Do	2680		W/ HARD 7/8 WASHERS			

AN Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S39

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 15/16" ϕ ¢ as noted
PAINT: Per Maine Specs ¢as noted.

SPANS 1 TO 5 S.B.

GIRDERS HGC1SB·HGC2SB HGC3SB·HGC4SB

Bancroft & Martin Inc.
South Portland 7, Maine

APP. 3-29-63

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

DRAWN	2-27-63	J.R.F.
REVISION		
REVISION		
REVISION		

ORDER NO. VERBAL DWG. NO. 63-5-S39S

89-143 A

BILL OF MATERIAL

DWG. NO. 63-5-S39N

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
HGC1 NB	1		GIRDER	63 11 3/4	—	
HGC2 NB	1		Do	63 11 3/4	—	
HGC3 NB	1		Do	63 11 3/4	—	
HGC4 NB	1		Do	63 11 3/4	—	
	4	pw7	PL 102 × 1/2	63 11 3/4		
	4	pt7	PL 17 × 11 7/16	20 0		
	8	pt8	PL 17 × 1"	21 11 3/8		
	4	pb14	PL 17 × 11 7/16	20 0 3/4		
	8	pb15	PL 17 × 1"	22 1 3/8		
	8	sdb	PL 8 × 1/4	8 6 3/8		
	16	sp1	PL 18 1/2 × 7/16	5 3		
	16	sp2	PL 14 × 1/2	2 0 1/2		
	32	sp3	Bar 6 × 3/8	2 0 1/2		
*	16	sa	Bar 6 × 3/8	5 6		
*	16	sc		7 0 15/16		
*	16	s14		8 4 1/2		
*	8	s15		7 10 5/16		
*	8	s16		6 3 1/2		
*	16	s17		5 8 5/16		
*	8	hs1		4 6 3/16		
*	16	hs2		4 11 3/16		
*	16	hs3	Bar 6 × 3/8	4 7 3/8		
*	16	g2	Bar 7 × 3/8	0 8		
*	16	g3	Bar 7 1/2 × 3/8	0 10		
FIELD	800		7/8" ϕ H.S. BOLTS	0 2 3/4		℄ Web (768)
Do	540		Do	0 3 3/4		℄ Flg's (512)
Do	2680		W/ HARD 7/8 WASHERS			

AN Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S39

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 15/16" ϕ ¢ as noted
PAINT: Per Maine Specs ¢as noted.

SPANS 1 TO 5 N.B.

GIRDERS HGC1NB·HGC2NB HGC3NB·HGC4NB

Bancroft & Martin Inc.
South Portland 7, Maine

APP. 3-29-63

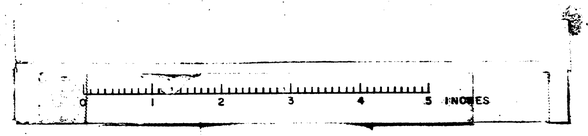
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

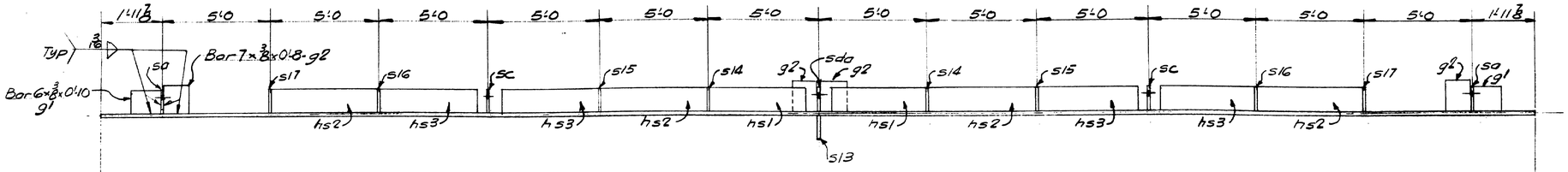
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

DRAWN	2-27-63	J.R.F.
REVISION		
REVISION		
REVISION		

ORDER NO. VERBAL DWG. NO. 63-5-S39N

89-143 B





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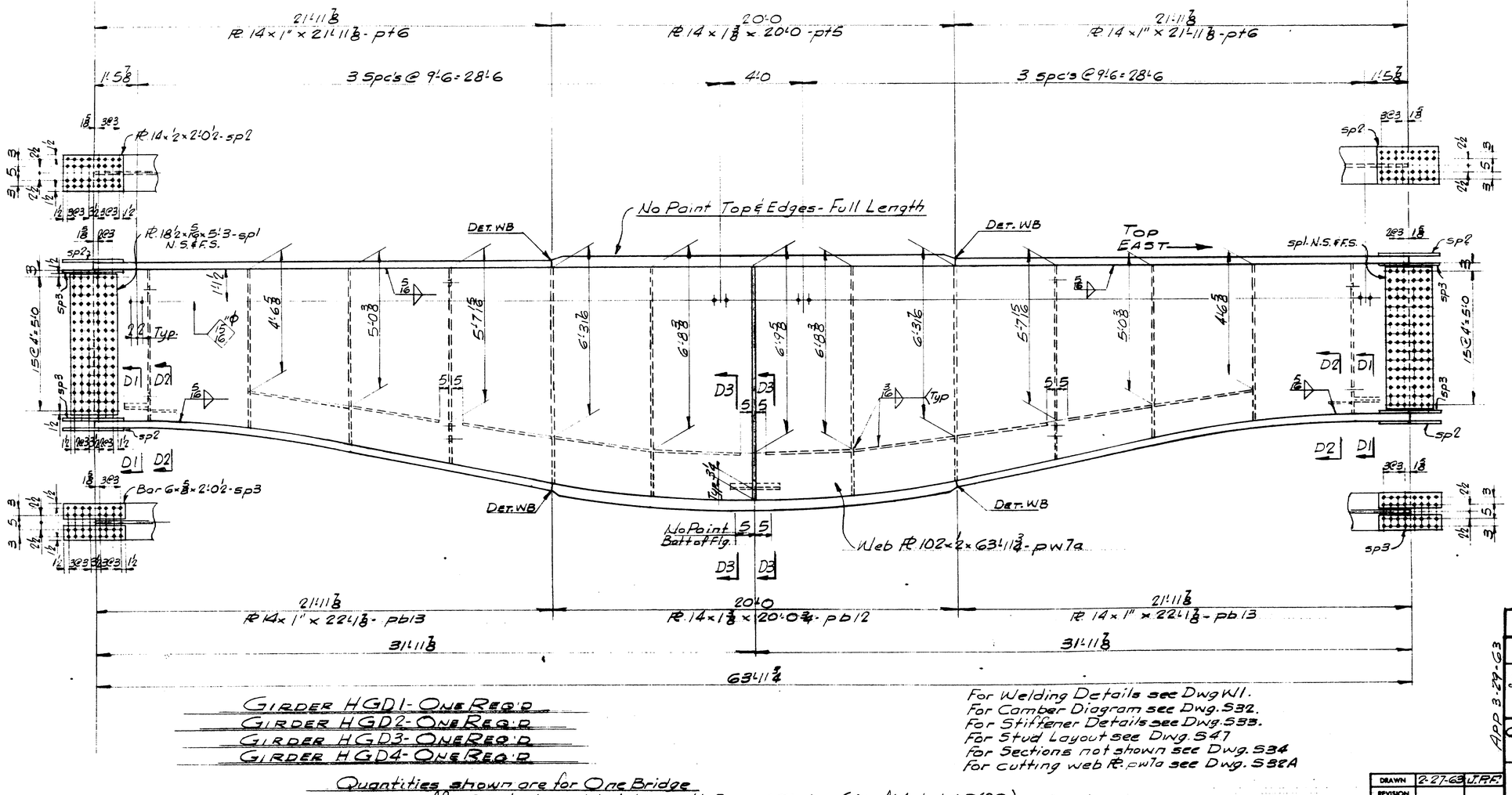


GIRDER HGD1 - ONE REQ'D
GIRDER HGD2 - ONE REQ'D
GIRDER HGD3 - ONE REQ'D
GIRDER HGD4 - ONE REQ'D

Quantities shown are for One Bridge
Suppl. SB to be added to South Bound Girders (Bill of Material S40S)
do NB do do North Bound do (do do S40N)

For Welding Details see Dwg W1.
For Camber Diagram see Dwg. S32.
For Stiffener Details see Dwg. S33.
For Stud Layout see Dwg. S47.
For Sections not shown see Dwg. S34
For cutting web Pl. pw7a see Dwg. S32A

SPLICE NOTE (15/16)

HOLES ARE FOR HIGH STRENGTH BOLTS
They are to be free from burrs and shall not be painted on any surface within 5" of such open holes.
See Note 6 Dwg. E3

DRAWN	2-27-63	J.P.F.
REVISION		
REVISION		
REVISION		

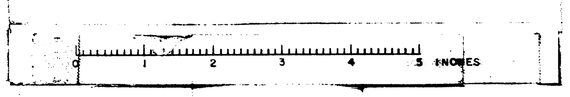
SPANS 1 TO 5 S.B. & N.B.
GIRDERS HGD1 - HGD2 HGD3 - HGD4
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 635-S40

APP 3-27-63

(4)

89-144

MODERN BLUE PRINT CO.



BILL OF MATERIAL

SHIP MARK | DWG. NO. 63-5-S40S

MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
HGD1 SB	1		GIRDER	63	11 3/4	—
HGD2 SB	1		Do	63	11 3/4	—
HGD3 SB	1		Do	63	11 3/4	—
HGD4 SB	1		Do	63	11 3/4	—
	4	pw1a	PL 10 2 x 1/2	63	11 3/4	
	4	pt5	PL 14 x 1 3/8	20	0	
	8	pt6	PL 14 x 1"	21	11 7/8	
	4	pb12	PL 14 x 1 3/8	20	0 3/4	
	8	pb13	PL 14 x 1"	22	1 7/8	
	4	s13	Bar 6 1/2 x 1 1/4	8	6 1/8	
	4	sd0	Do	8	6 1/8	
	16	sp1	PL 18 1/2 x 5/16	5	3	
	16	sp2	PL 14 x 1/2	2	0 1/2	
	32	sp3	Bar 6 x 5/8	2	0 1/2	
*	8	sa	Bar 6 x 7/8	5	6	
*	8	sc		7	0 15/16	
*	8	s14		8	4 1/2	
*	8	s15		7	10 5/16	
*	8	s16		6	3 1/2	
*	8	s17		5	8 5/16	
*	8	hs1		4	6 3/16	
*	16	hs2		4	11 13/16	
*	16	hs3		4	7 1/8	
*	8	g1	Bar 6 x 3/8	0	10	
*	16	g2	Bar 7 x 3/8	0	8	
FIELD	800		7/8" ø H.S. BOLTS	0	2 3/4	@ Web (768)
Do	540		Do	0	3 3/4	@ Flgs (512)
Do	1680		7/8" ø HARD WASHERS			

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. 540

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ø & as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 S.B

GIRDERS HGD1SB - HGD2SB HGD3SB - HGD4SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

APP. 3-29-63

DRAWN	2-27-63	J.P.F.
REVISION		
REVISION		
REVISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 63-5-S40S

89-144 A

BILL OF MATERIAL

SHIP MARK | DWG. NO. 63-5-S40N

MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
HGD1 NB	1		GIRDER	63	11 3/4	—
HGD2 NB	1		Do	63	11 3/4	—
HGD3 NB	1		Do	63	11 3/4	—
HGD4 NB	1		Do	63	11 3/4	—
	4	pw1a	PL 10 2 x 1/2	63	11 3/4	
	4	pt5	PL 14 x 1 3/8	20	0	
	8	pt6	PL 14 x 1"	21	11 7/8	
	4	pb12	PL 14 x 1 3/8	20	0 3/4	
	8	pb13	PL 14 x 1"	22	1 7/8	
	4	s13	Bar 6 1/2 x 1 1/4	8	6 1/8	
	4	sd0	Do	8	6 1/8	
	16	sp1	PL 18 1/2 x 5/16	5	3	
	16	sp2	PL 14 x 1/2	2	0 1/2	
	32	sp3	Bar 6 x 5/8	2	0 1/2	
*	8	sa	Bar 6 x 7/8	5	6	
*	8	sc		7	0 15/16	
*	8	s14		8	4 1/2	
*	8	s15		7	10 5/16	
*	8	s16		6	3 1/2	
*	8	s17		5	8 5/16	
*	8	hs1		4	6 3/16	
*	16	hs2		4	11 13/16	
*	16	hs3		4	7 1/8	
*	8	g1	Bar 6 x 3/8	0	10	
*	16	g2	Bar 7 x 3/8	0	8	
FIELD	800		7/8" ø H.S. BOLTS	0	2 3/4	@ Web (768)
Do	540		Do	0	3 3/4	@ Flgs (512)
Do	2680		7/8" ø HARD WASHERS			

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. 540

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ø & as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 N.B.

GIRDERS HGD1NB - HGD2NB HGD3NB - HGD4NB

Bancroft & Martin Inc.
South Portland 7, Maine

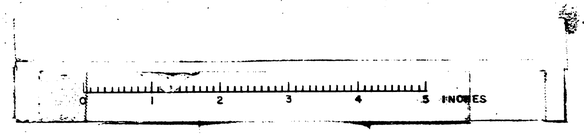
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

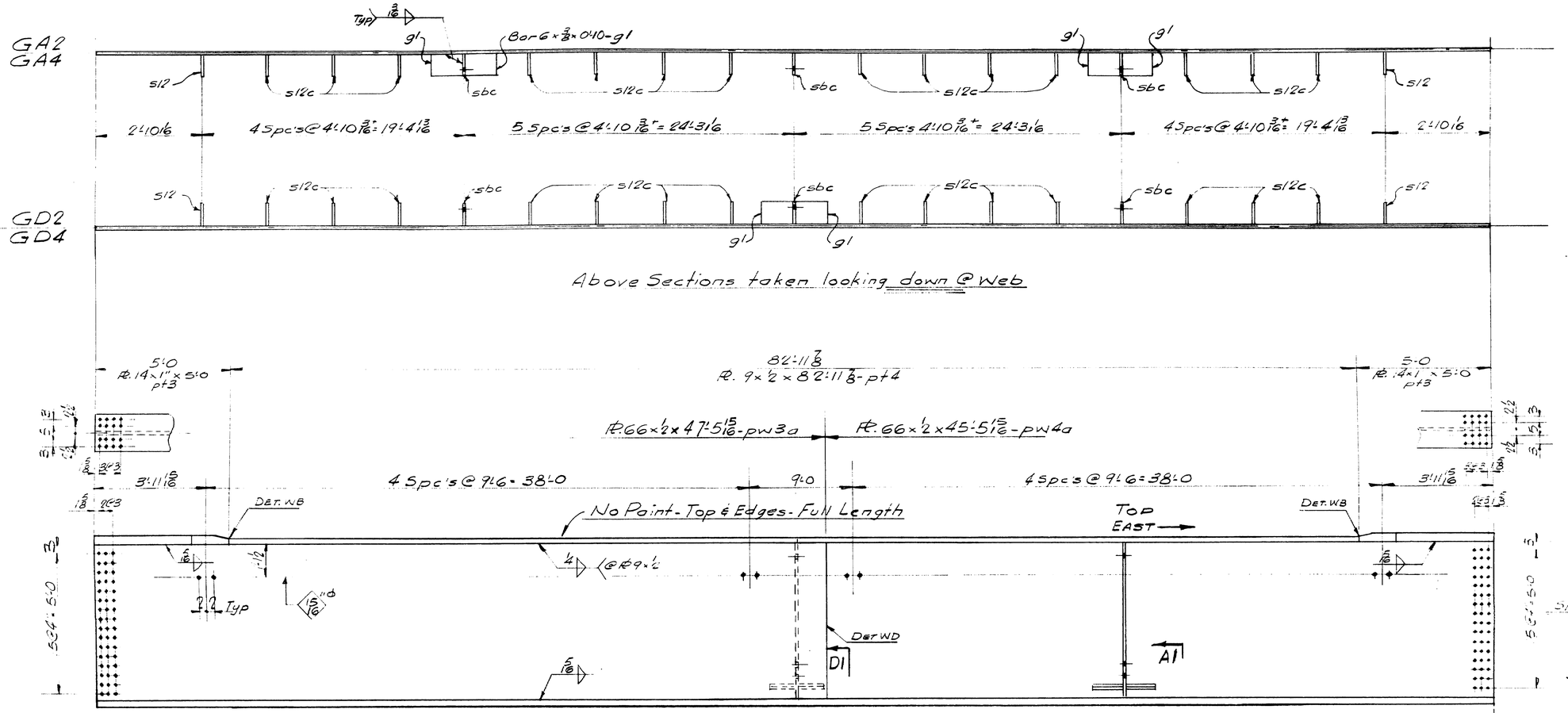
APP. 3-29-63

DRAWN	2-27-63	J.P.F.
REVISION		
REVISION		
REVISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 63-5-S40N

89-144 B





GIRDER GA2 - ONE REQ'D. - As Noted
GIRDER GD2 - ONE REQ'D. - As Noted
GIRDER GA4 - ONE REQ'D. - As Noted
GIRDER GD4 - ONE REQ'D. - As Noted

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S41S)
do NB do do North Bound do (do do S41N)

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg S32.
For Stiffener Details see Dwg S33.
For Stud Layout see Dwg. S47
For Sections not shown see Dwg. S34.

DRAWN	2-1963	J.P.F.
REVISION		
REVISION		
REVISION		

SPANS 1 to 5 S.B. & N.B.
GIRDERS GA2 & GD2 / GA4 & GD4
Bancroft & Martin Welding Outfit company
South Portland, Maine
APP 3-29-63
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS, INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DATE 63-5-S41

[redacted]

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GA2SB	1		GIRDER	92	11 3/8	—	
GD2SB	1		Do	92	11 3/8	—	
GA4SB	1		Do	92	11 3/8	—	
GD4SB	1		Do	92	11 3/8	—	
	4	pw3a	PL 66 × 1/2	47	5 15/16		
	4	pw4a	Do	45	5 15/16		
	8	pt3	PL 14 × 1"	5	0		
	4	pt4	PL 9 × 1/2	82	11 3/8		
	4	pb7	PL 14 × 1"	92	11 3/8		
*	12	sbc	Bar 6 × 3/8	5	6		
*	8	s12	Do	5	6		
*	56	s12c	Do	5	6		
*	12	g1	Do	0	10		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 541

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ & as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 S.B.

GIRDERS GA2SB & GD2SB GA4SB & GD4SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S41S

APR 3-29-63

DRAWN	2-19-63	J.P.F.
REVISION		
REVISION		
REVISION		

89-145 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GA2NB	1		GIRDER	92	11 3/8	—	
GD2NB	1		Do	92	11 3/8	—	
GA4NB	1		Do	92	11 3/8	—	
GD4NB	1		Do	92	11 3/8	—	
	4	pw3a	PL 66 × 1/2	47	5 15/16		
	4	pw4a	Do	45	5 15/16		
	8	pt3	PL 14 × 1"	5	0		
	4	pt4	PL 9 × 1/2	82	11 3/8		
	4	pb7	PL 14 × 1"	92	11 3/8		
*	12	sbc	Bar 6 × 3/8	5	6		
*	8	s12	Do	5	6		
*	56	s12c	Do	5	6		
*	12	g1	Do	0	10		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 541

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ & as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 N.B.

GIRDERS GA2NB & GD2NB GA4NB & GD4NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

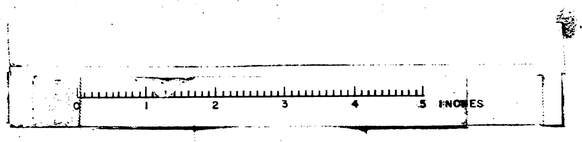
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

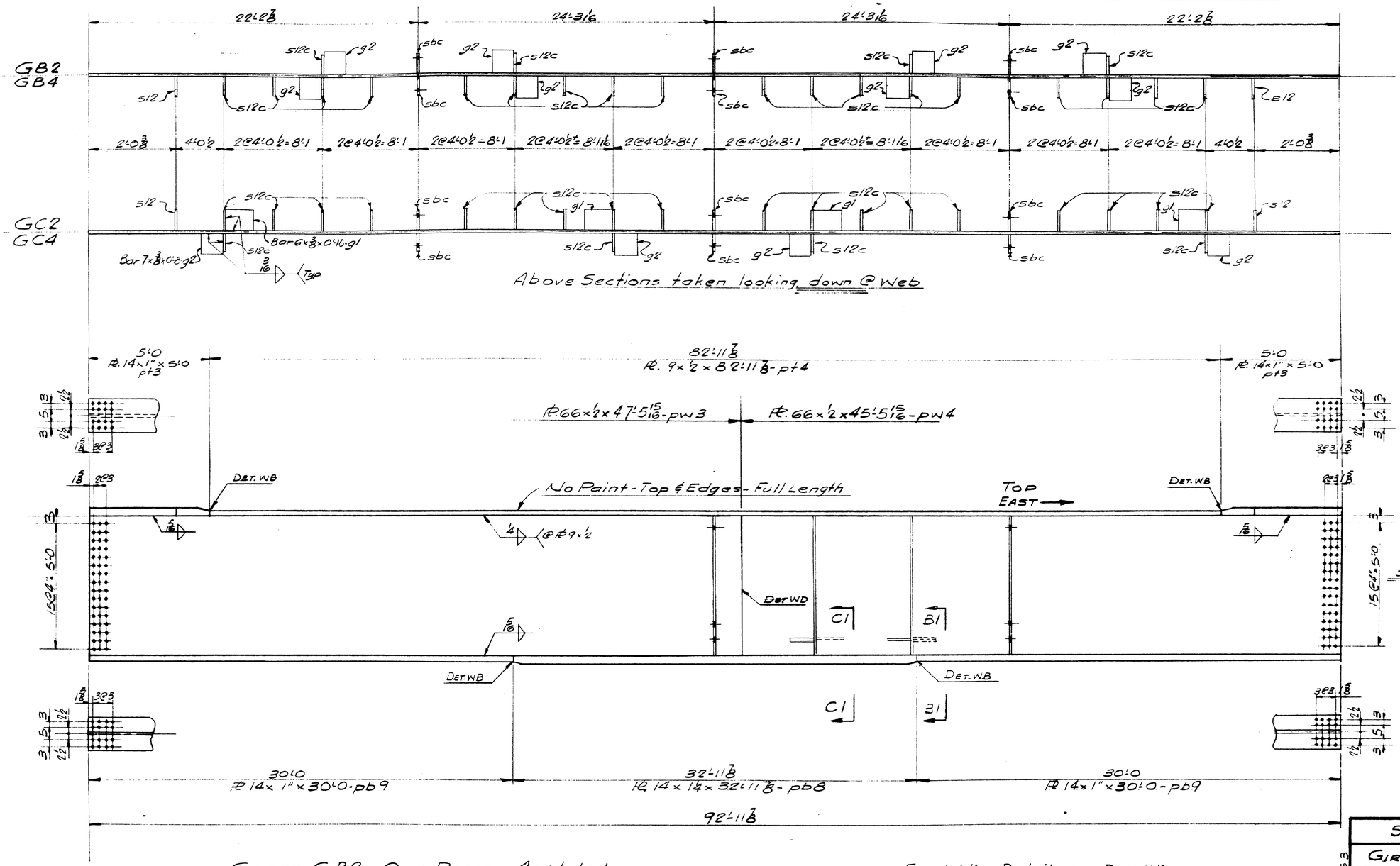
ORDER NO. VERBAL | DWG. NO. 63-5-S41N

APR 3-29-63

DRAWN	2-19-63	J.P.F.
REVISION		
REVISION		
REVISION		

89-145 B





GIRDER GB2 - ONE REQ'D - As Noted
GIRDER GC2 - ONE REQ'D. As Noted.
GIRDER GB4 - ONE REQ'D - As Noted
GIRDER GC4 - ONE REQ'D. - As Noted

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S425)
do NB do do North Bound do (do do S42N)

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg S32.
For Stiffener Details see Dwg S33.
For Stud Layout see Dwg. S47
For Sections not shown see Dwg. S34.

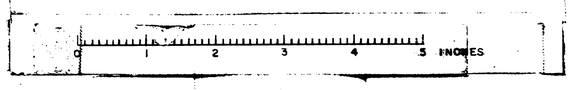
DRAWN	2-20-63	J.R.F.
REVISION		
REVISION		
REVISION		

SPANS 1 to 5 S.B. & N.B.
GIRDERS GB2 & GC2 GB4 & GC4
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS, INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 63-5-S42
APP 3-29-63

(C)

89-146

MODERN BLUE PRINT CO.



SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GB2SB	1		GIRDER	92	11 7/8	—	
GC2SB	1		Do	92	11 7/8	—	
GB4SB	1		Do	92	11 7/8	—	
GC4SB	1		Do	92	11 7/8	—	
	4	pw3	PL 66 × 1/2	47	5 15/16		
	4	pw4	Do	45	5 15/16		
	8	pt3	PL 14 × 1"	5	0		
	4	pt4	PL 9 × 1/2	82	11 7/8		
	4	pb8	PL 14 × 1/4	32	11 7/8		
	8	pb9	PL 14 × 1"	30	0		
*	24	sbc	Bar 6 × 3/8	5	6		
*	8	s12	Do	5	6		
*	88	s12c	Do	5	6		
*	8	g1	Do	0	10		
*	24	g2	Bar 7 × 3/8	0	8		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 542

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ & as noted
PAINT: Per Maine Specs & as noted.

APP'D 3-29-63

SPANS 1 TO 5 S.B.

GIRDERS GB2SB & GC2SB GB4SB & GC4SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

DRAWN	2-20-63	J.P.F.
REVISION		
REVISION		
REVISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DWG. NO. 63-5-S42S

89-146 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GB2NB	1		GIRDER	92	11 7/8	—	
GC2NB	1		Do	92	11 7/8	—	
GB4NB	1		Do	92	11 7/8	—	
GC4NB	1		Do	92	11 7/8	—	
	4	pw3	PL 66 × 1/2	47	5 15/16		
	4	pw4	Do	45	5 15/16		
	8	pt3	PL 14 × 1"	5	0		
	4	pt4	PL 9 × 1/2	82	11 7/8		
	4	pb8	PL 14 × 1/4	32	11 7/8		
	8	pb9	PL 14 × 1"	30	0		
*	24	sbc	Bar 6 × 3/8	5	6		
*	8	s12	Do	5	6		
*	88	s12c	Do	5	6		
*	8	g1	Do	0	10		
*	24	g2	Bar 7 × 3/8	0	8		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 542

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ & as noted
PAINT: Per Maine Specs & as noted.

APP'D 3-29-63

SPANS 1 TO 5 N.B.

GIRDERS GB2NB & GC2NB GB4NB & GC4NB

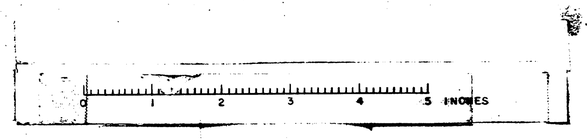
Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

DRAWN	2-20-63	J.P.F.
REVISION		
REVISION		
REVISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DWG. NO. 63-5-S42N

89-146 B



GA3

GD3

Above Sections taken looking down @ Web

Girder GA3 - One Req'd. - As Noted

Girder GD3 - One Req'd. - As Noted

Quantities shown are for One Bridge

Suffix SB to be added to South Bound Girders (Bill of Material S43S)

do NB do do North Bound do (do do S43N)

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg S32.
For Stiffener Details see Dwg S35.
For Stud Layout see Dwg. S41
For Sections not shown see Dwg. S34

Splice Note

HOLES ARE FOR HIGH TENSILE BOLTS
Ream holes free from burrs
and shall not be painted on any
surface within 5" of such open
holes.
See Note 6 Dwg E3

Spans 1 to 5 S.B. & N.B.	
Girders GA3 & GD3	
Bancroft & Martin Rolling Mills Company, South Portland 7, Maine	
Clinton A. Clauson Mem. Bridge, Fairfield, Maine	
Customer F.C. Snodgrass, Inc.	
Designer Maine S.H.C. Bridge Div.	
Order No. Verbal	Dwg. No. 63-5-S43

App 3-29-63

Drawn	2-19-63	J.P.F.
Revision		
Revision		
Revision		

89-147

Modern Blue Print Co.

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GA3SB	1		GIRDER	92	11 3/8	—	
GD3SB	1		Do	92	11 3/8	—	
	2	pw5a	PL 66 x 1/2	47	5 15/16		
	2	pw6a	Do	45	5 15/16		
	4	pt3	PL 14 x 1"	5	0		
	2	pt4	PL 9 x 1/2	82	11 3/8		
	2	pb7	PL 14 x 1"	92	11 3/8		
*	6	sbc	Bar 6 x 3/8	5	6		
*	4	s12	Do	5	6		
*	28	s12c	Do	5	6		
*	6	g1	Do	0	10		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 543

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ & as noted
PAINT: Per Maine Specs & as noted.

APP. 3-29-63

SPANS 1 TO 5 S.B

GIRDERS GA3SB & GD3SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

DRAWN	2-19-63	J.P.F.
REVISION		
REVISION		
VISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S43S

89-147 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GA3NB	1		GIRDER	92	11 3/8	—	
GD3NB	1		Do	92	11 3/8	—	
	2	pw5a	PL 66 x 1/2	47	5 15/16		
	2	pw6a	Do	45	5 15/16		
	4	pt3	PL 14 x 1"	5	0		
	2	pt4	PL 9 x 1/2	82	11 3/8		
	2	pb7	PL 14 x 1"	92	11 3/8		
*	6	sbc	Bar 6 x 3/8	5	6		
*	4	s12	Do	5	6		
*	28	s12c	Do	5	6		
*	6	g1	Do	0	10		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 543

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ & as noted
PAINT: Per Maine Specs & as noted.

APP. 3-29-63

SPANS 1 TO 5 N.B.

GIRDERS GA3NB & GD3NB

Bancroft & Martin Inc.
South Portland 7, Maine

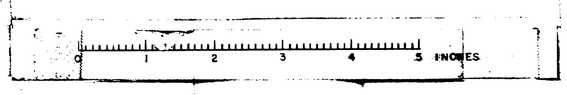
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

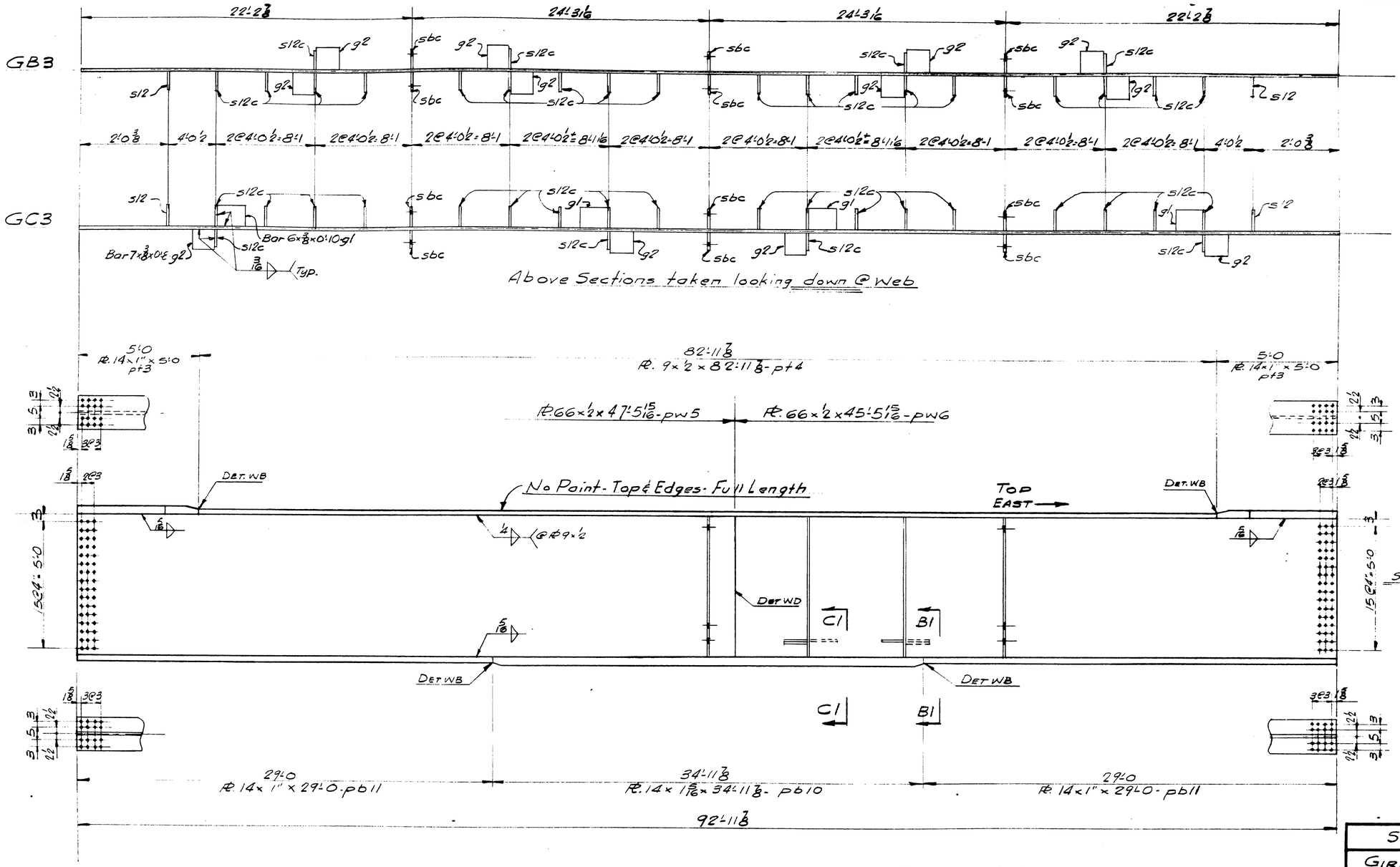
DRAWN	2-19-63	J.P.F.
REVISION		
REVISION		
VISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S43N

89-147 B





GIRDER GB3 - ONE REQ'D - AS NOTED

GIRDER GC3 - ONE REQ'D. - AS NOTED

Quantities shown are for One Bridge

Suffix SB to be added to South Bound Girders (Bill of Material S445)

do NB do do North Bound do (do do S44N)

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg S32.
For Stiffener Details see Dwg S33.
For Stud Layout see Dwg. S47
For Sections not shown see Dwg. S34.

SPANS 1 TO 5 S.B. & N.B.

GIRDERS GB3 & GC3

Bancroft & Martin Rolling Mills Company
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER F.C. SNODGRASS, INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S44

DRAWN	2-2063	J.P.F.	
REVISION			
REVISION			
REVISION			

APP'D 3-29-63

89-148

MODERN BLUE PRINT CO.

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GB3SB	1		GIRDER	92	11 3/8	—	
GC3SB	1		Do	92	11 3/8	—	
	2	pw5	PL 66 × 1/2	47	5 15/16		
	2	pw6	Do	45	5 15/16		
	4	pt3	PL 14 × 1"	5	0		
	2	pt4	PL 9 × 1/2	82	11 3/8		
	2	pb10	PL 14 × 1 1/2	34	11 3/8		
	4	pb11	PL 14 × 1"	29	0		
*	12	sb6	Bar 6 × 3/8	5	6		
*	4	s12	Do	5	6		
*	44	s12c	Do	5	6		
*	4	g1	Do	0	10		
*	12	g2	Bar 7 × 3/8	0	8		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. S44

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 15/16" ϕ as noted
PAINT: Per Maine Specs & as noted.

SHIP BILL OF MATERIAL DWG. NO. 63-5-S44S

Spans 1 to 5 S.B.

Girders GB3SB & GC3SB

Bancroft & Martin Inc.
South Portland 7, Maine

Clinton A. Clauson Mem. Bridge
Fairfield, Maine

CUSTOMER E.C. Snodgrass Inc.
DESIGNER Maine S.H.C. Bridge Div.

ORDER NO. Verbal DWG. NO. 63-5-S44S

DRAWN	2-20-63	J.R.F.
REVISION		
REVISION		
REVISION		

APP. 3-29-63

89-148 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GB3NB	1		GIRDER	92	11 3/8	—	
GC3NB	1		Do	92	11 3/8	—	
	2	pw5	PL 66 × 1/2	47	5 15/16		
	2	pw6	Do	45	5 15/16		
	4	pt3	PL 14 × 1"	5	0		
	2	pt4	PL 9 × 1/2	82	11 3/8		
	2	pb10	PL 14 × 1 1/2	34	11 3/8		
	4	pb11	PL 14 × 1"	29	0		
*	12	sb6	Bar 6 × 3/8	5	6		
*	4	s12	Do	5	6		
*	44	s12c	Do	5	6		
*	4	g1	Do	0	10		
*	12	g2	Bar 7 × 3/8	0	8		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. S44

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 15/16" ϕ as noted
PAINT: Per Maine Specs & as noted.

SHIP BILL OF MATERIAL DWG. NO. 63-5-S44N

Spans 1 to 5 N.B.

Girders GB3NB & GC3NB

Bancroft & Martin Inc.
South Portland 7, Maine

Clinton A. Clauson Mem. Bridge
Fairfield, Maine

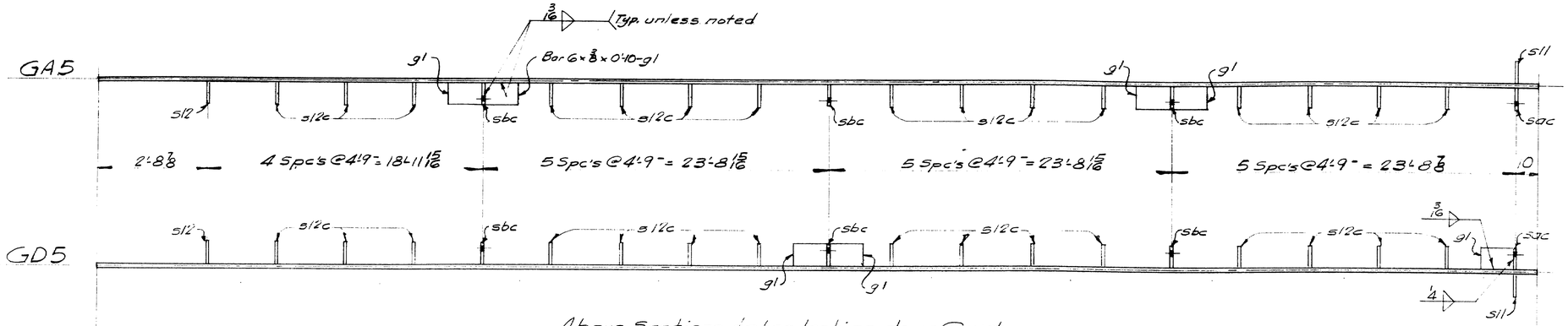
CUSTOMER E.C. Snodgrass Inc.
DESIGNER Maine S.H.C. Bridge Div.

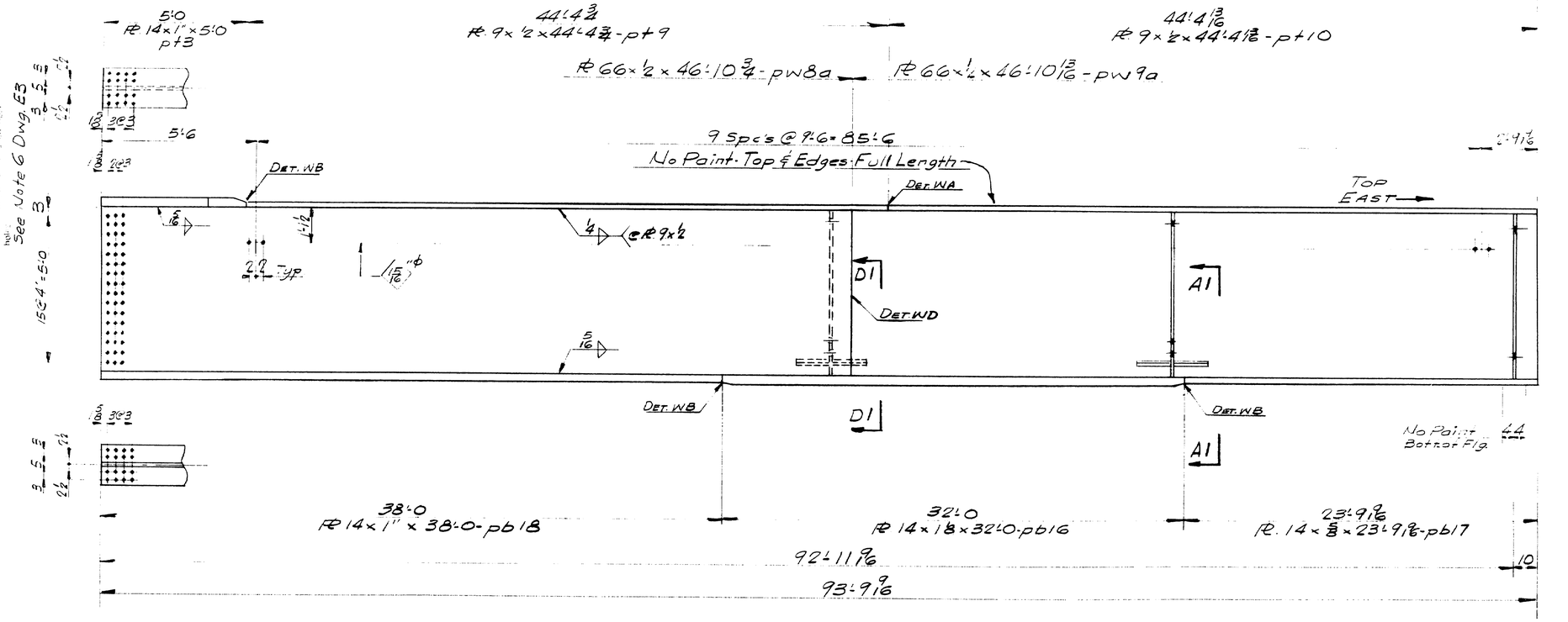
ORDER NO. Verbal DWG. NO. 63-5-S44N

DRAWN	2-20-63	J.R.F.
REVISION		
REVISION		
REVISION		

APP. 3-29-63

89-148 B





GIRDER GA5 - ONE REQ'D. - As Noted
GIRDER GD5 - ONE REQ'D. - As Noted

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S45S)
do NB do do North Bound do (do do S45N)

For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S32.
For Stiffener Details see Dwg. S33.
For Stud Layout see Dwg. S47
for Sections not shown see Dwg. S34

APP 3-27-63

DRAWN	3-4-63	J.P.F.
REVISION		
REVISION		
REVISION		

SPANS 1 TO 5 S.B. & N.B.
GIRDERS GA5 & GD5
Bancroft & Martin Tubing Artist company
South Portland, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DWG. NO. 63-5-S45

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GA55B	1		GIRDER	93	9 9/16	—	
GD55B	1		Do	93	9 9/16	—	
	2	pw8a	PL.66×½	46	10 3/32		
	2	pw9a	Do	46	10 13/16		
	2	pt3	PL14×1"	5	0		
	2	pt9	PL9×½	44	4 3/4		
	2	pt10	Do	44	4 13/16		
	2	pb16	PL14×⅛	32	0		
	2	pb17	PL14×⅝	73	9 9/16		
	2	pb18	PL14×1"	38	0		
	2	s11	Bar6×⅝	5	6⅛		
	2	s2c	Do	5	6⅛		
*	6	s6c	Bar6×⅜	5	6		
**	2	s12	Do	5	6		
**	30	s12c	Do	5	6		
*	7	g1	Do	0	10		

BILL OF MATERIAL — DWG. NO. 63-5-S45S

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. S45

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 S.B.

GIRDERS GA55B & GD55B

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL — DWG. NO. 63-5-S45S

APP. 3-29-63

DRAWN	3-4-63	J.P.F.
REVISION		
REVISION		
VISION		

89-149 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GA5NB	1		GIRDER	93	9 9/16	—	
GD5NB	1		Do	93	9 9/16	—	
	2	pw8a	PL66×½	46	10 3/32		
	2	pw9a	Do	46	10 13/16		
	2	pt3	PL14×1"	5	0		
	2	pt9	PL9×½	44	4 3/4		
	2	pt10	Do	44	4 13/16		
	2	pb16	PL14×⅛	32	0		
	2	pb17	PL14×⅝	73	9 9/16		
	2	pb18	PL14×1"	38	0		
	2	s11	Bar6×⅝	5	6⅛		
	2	s2c	Do	5	6⅛		
*	6	s6c	Bar6×⅜	5	6		
**	2	s12	Do	5	6		
**	30	s12c	Do	5	6		
*	7	g1	Do	0	10		

BILL OF MATERIAL — DWG. NO. 63-5-S45N

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. S45

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 N.B.

GIRDERS GA5NB & GD5NB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

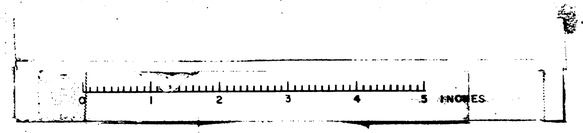
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

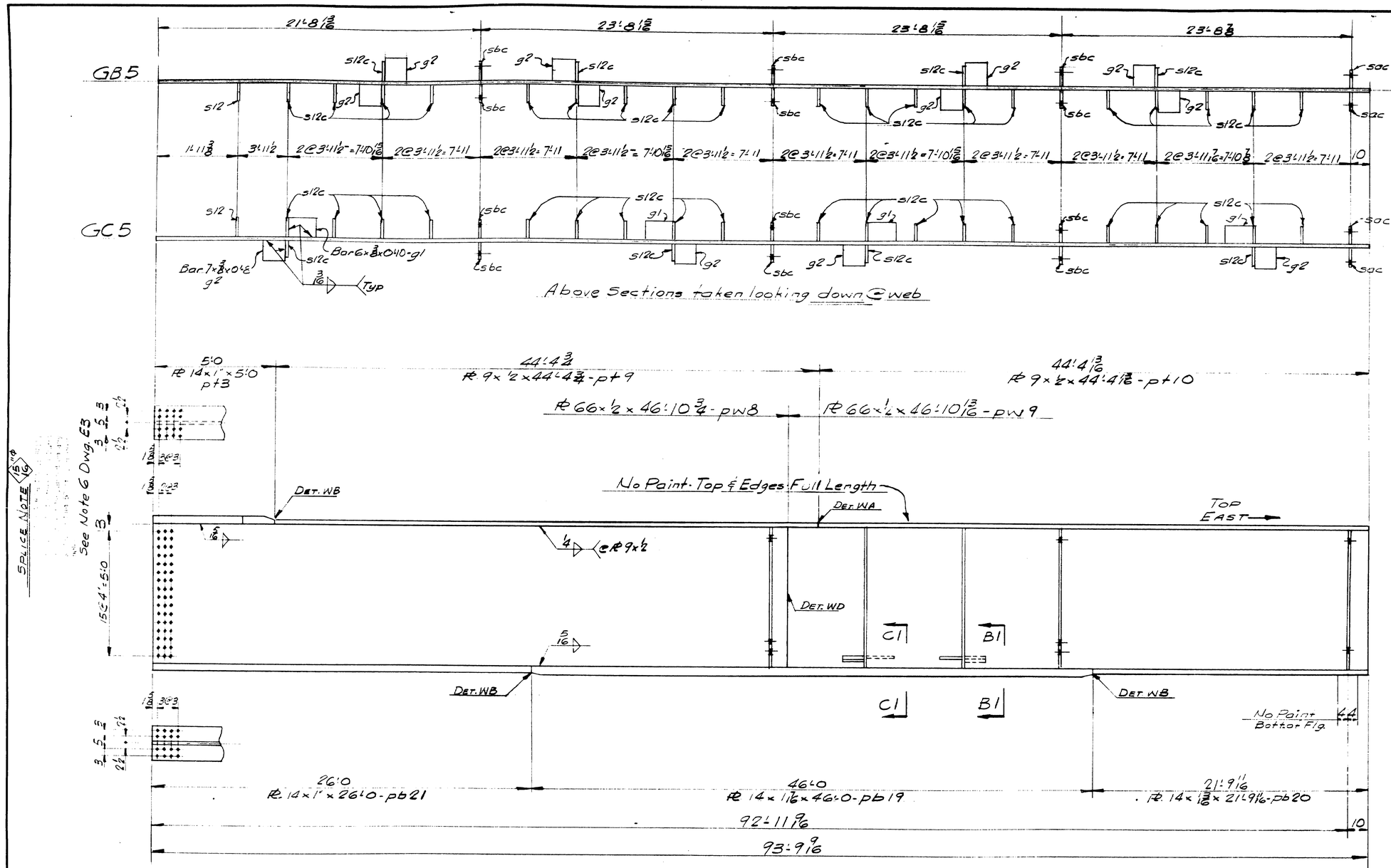
ORDER NO. VERBAL — DWG. NO. 63-5-S45N

APP. 3-29-63

DRAWN	3-4-63	J.P.F.
REVISION		
REVISION		
VISION		

89-149 B





For Welding Details see Dwg. W1.
For Camber Diagram see Dwg. S32.
For Stiffener Details see Dwg. S33.
For Stud Layout see Dwg. S47
for Sections not shown see Dwg. S34

GIRDER GB5 - ONE REQ'D. - As Noted
GIRDER GC5 - ONE REQ'D. - As Noted

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Girders (Bill of Material S46S)
do NB do do North Bound do (do do S46N)

DRAWN	3-4-63	J.P.F.
REVISION		
REVISION		
REVISION		

APP 3-29-63

SPANS 1 TO 5 S.B. & N.B.
GIRDERS GB5 & GC5
Bancroft & Martin Rolling Mills Company
South Portland 7, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL | DWG. NO. 63-5-S46

89-150

MODERN BLUE PRINT CO.

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GB5SB	1		GIRDER	93	9 9/16	—	
GC5SB	1		Do	93	9 9/16	—	
	2	pw8	PL 66 × 1/2	46	10 3/4		
	2	pw9	Do	46	10 13/16		
	2	pt3	PL 14 × 1"	5	0		
	2	pt9	PL 9 × 1/2	44	4 3/4		
	2	pt10	Do	44	4 13/16		
	2	pb19	PL 14 × 1 1/16	46	0		
	2	pb20	PL 14 × 1 3/16	21	9 1/16		
	2	pb21	PL 14 × 1"	26	0		
	4	s0c	Bar 6 × 5/8	5	6 1/2		
*	12	s6c	Bar 6 × 3/8	5	6		
*	2	s12	Do	5	6		
*	46	s12c	Do	5	6		
*	4	g1	Do	0	10		
*	12	g2	Bar 7 × 3/8	0	8		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 546

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ ¢ as noted
PAINT: Per Maine Specs ¢as noted.

APP 3-29-63

SPANS 1 TO 5 S.B.

GIRDERS GB5SB & GC5SB

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S46S

DRAWN	3-1-63	J.P.F.	
REVISION			
REVISION			
REVISION			

89-150 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
GB5NB	1		GIRDER	93	9 9/16	—	
GC5NB	1		Do	93	9 9/16	—	
	2	pw8	PL 66 × 1/2	46	10 3/4		
	2	pw9	Do	46	10 13/16		
	2	pt3	PL 14 × 1"	5	0		
	2	pt9	PL 9 × 1/2	44	4 3/4		
	2	pt10	Do	44	4 13/16		
	2	pb19	PL 14 × 1 1/16	46	0		
	2	pb20	PL 14 × 1 3/16	21	9 1/16		
	2	pb21	PL 14 × 1"	26	0		
	4	s0c	Bar 6 × 5/8	5	6 1/2		
*	12	s6c	Bar 6 × 3/8	5	6		
*	2	s12	Do	5	6		
*	46	s12c	Do	5	6		
*	4	g1	Do	0	10		
*	12	g2	Bar 7 × 3/8	0	8		

All Mat. A.S.T.M. Desig. A441 unless noted

* A.S.T.M. Desig. A7 or A36

Structural Steel Item 702.103B

For Details see Dwg. 546

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ϕ ¢ as noted
PAINT: Per Maine Specs ¢as noted.

APP 3-29-63

SPANS 1 TO 5 N.B.

GIRDERS GB5NB & GC5NB

Bancroft & Martin Inc.
South Portland 7, Maine

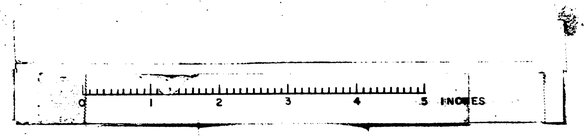
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

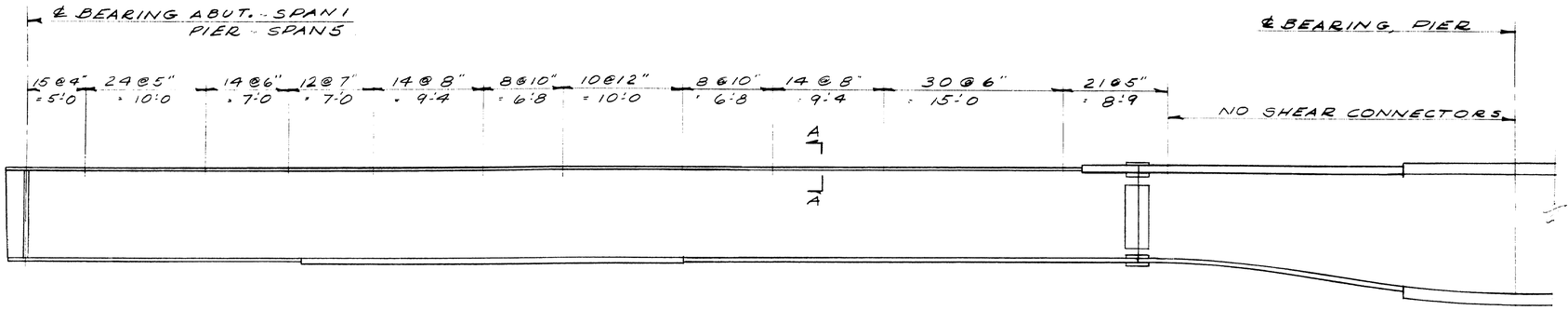
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S46N

DRAWN	3-1-63	J.P.F.	
REVISION			
REVISION			
REVISION			

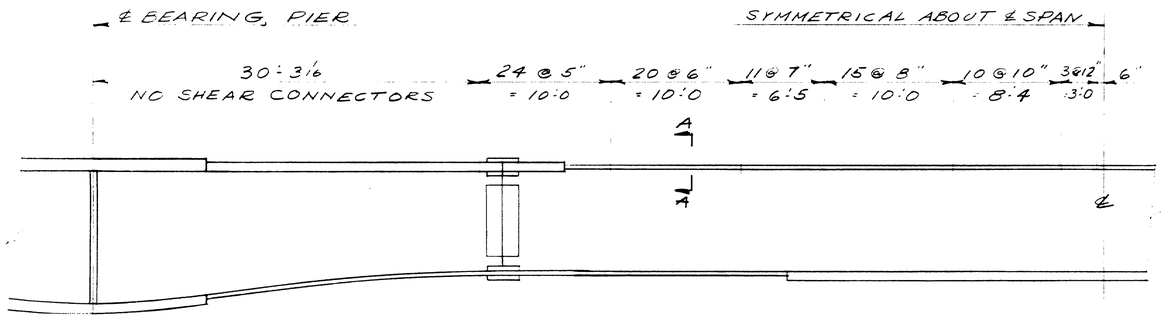
89-150 B





SHEAR CONNECTOR SPACING ~ SPANS 1 & 5

342 REQ'D. PER GIRDER
2,736 TOTAL REQ'D. FOR N.B.
2,736 TOTAL REQ'D. FOR S.B.

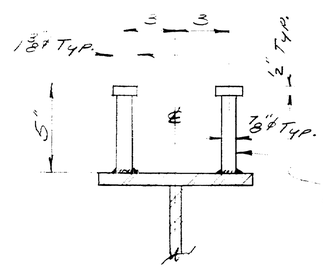


SHEAR CONNECTOR SPACING ~ SPANS 2, 3 & 4

336 REQ'D. PER GIRDER
4,032 TOTAL REQ'D. FOR N.B.
4,032 TOTAL REQ'D. FOR S.B.

13,536 SHEAR CONNECTORS

6,768 N.B. — — — — — 6768 S.B.



SECTION A-A

NOTE:
PITCH MAY BE REVISED SLIGHTLY @ FLANGE BUTT WELD. PITCH & TRANSVERSE SPACING MAY BE REVISED SLIGHTLY @ GIRDER FIELD SPLICES TO CLEAR H.T. BOLTS

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
			NORTHBOUND			
	6768		⅞" ø Shear Conn.	0 5		Nelson Shear-Conn.
			SOUTHBOUND			
	6768		⅞" ø Shear Conn.	0 5		Nelson Shear Conn
			ITEM NO. 705-17			

BILL OF MATERIAL DWG. NO. 63-5-547

SHOP CONNECTIONS: WELDED
FIELD CONNECTIONS:
HOLES:
PAINT: NO PAINT

STUD LAYOUT DETAILS

Sawyer & Martin, Inc.
South Portland, Maine

CLINTON A CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

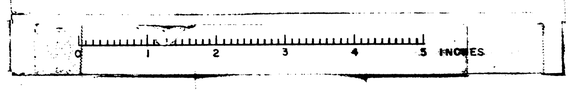
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

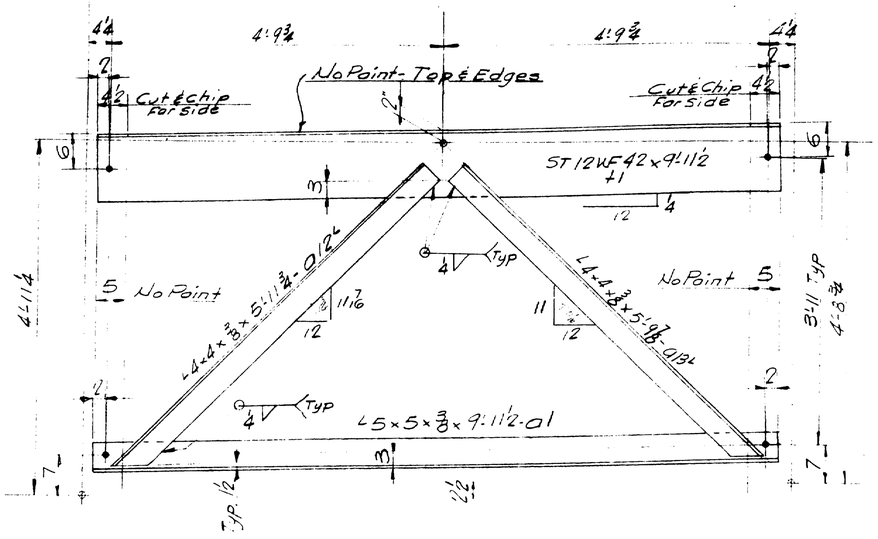
ORDER NO. VERBAL DWG. NO. 63-5-547

DRAWN	4-29-63	TFG
REVISION	5-8-63	TFG
REVISION		
REVISION		

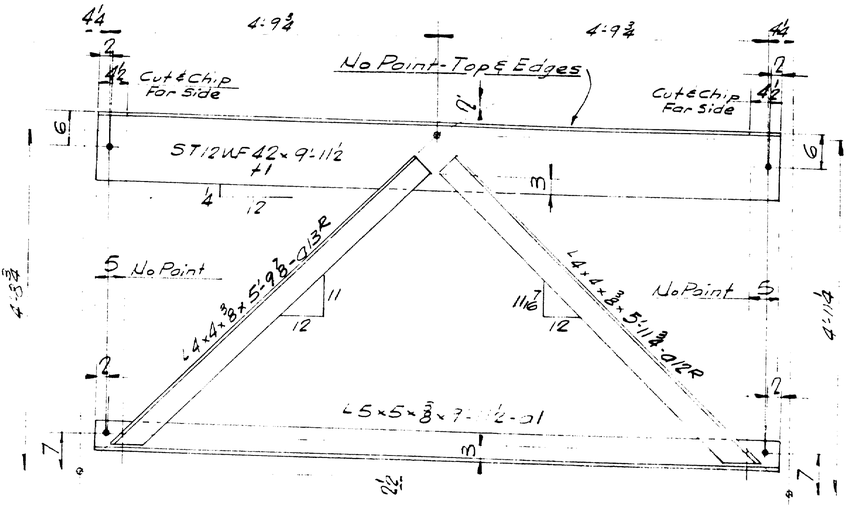
APP. 5-6-63

89-151





A3 - 10 REQ'D



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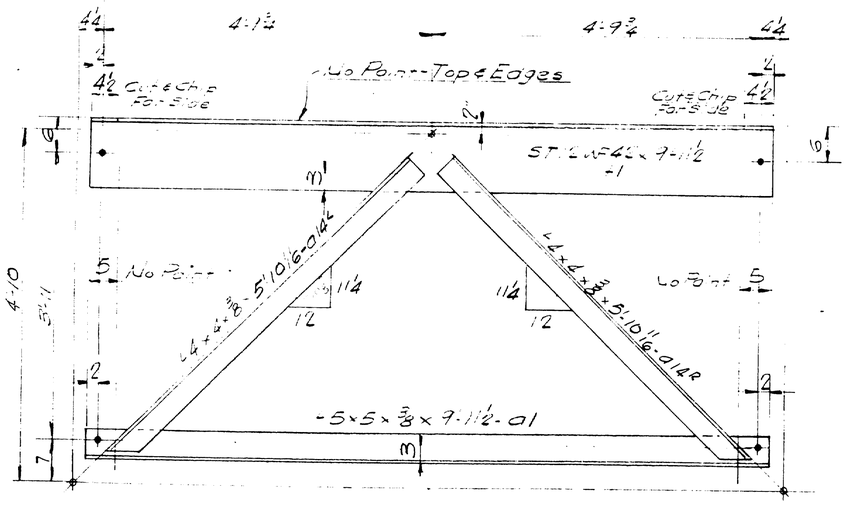


A1 - 10 REQ'D.

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Cross Frames (Bill of Material 548S)
do NB do do North Bound do (do do 548N)

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded
HOLES: 13/16 Φ
PAINT: Per Maine Specs as noted

SPANS 1 TO S.S.B. & N.B.

CROSS FRAMES TYPE A

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

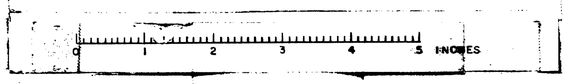
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL DWG. NO. 63-5-548

DRAWN	3-5-63	J.P.F.
REVISION		
REVISION		
REVISION		

ADD 3-29-63

89-152



SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
A1SB	10		CROSS FRAME	9	11½	—	
A2SB	10		Do	9	11½	—	
A3SB	10		Do	9	11½	—	
	30	f1	ST 12 WF 42	9	11½		
	30	a1	L 5×5×⅜	9	11½		
	10	a12R	L 4×4×⅜	5	11¾		
	10	a12L		5	11¾		
	10	a13R		5	9⅞		
	10	a13L		5	9⅞		
	10	a14R		5	10⅛		
	10	a14L	L 4×4×⅜	5	10⅛		
FIELD	125		⅞" ø H.T. BOLTS	0	1¾		

A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S48

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ø & as noted
PAINT: Per Maine Specs & as noted.

APP. 3-29-63

SPANS 1 TO 5 S.B.

CROSS FRAMES - TYPE A

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S48S

DRAWN	3-5-63	J.P.F.
REVISION		
REVISION		
REVISION		

89-162 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
A1NB	10		CROSS FRAME	9	11½	—	
A2NB	10		Do	9	11½	—	
A3NB	10		Do	9	11½	—	
	30	f1	ST 12 WF 42	9	11½		
	30	a1	L 5×5×⅜	9	11½		
	10	a12R	L 4×4×⅜	5	11¾		
	10	a12L		5	11¾		
	10	a13R		5	9⅞		
	10	a13L		5	9⅞		
	10	a14R		5	10⅛		
	10	a14L	L 4×4×⅜	5	10⅛		
FIELD	125		⅞" ø H.T. BOLTS	0	1¾		

A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S48

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16" ø & as noted
PAINT: Per Maine Specs & as noted.

APP. 3-29-63

SPANS 1 TO 5 N.B.

CROSS FRAMES - TYPE A

Bancroft & Martin Inc.
South Portland 7, Maine

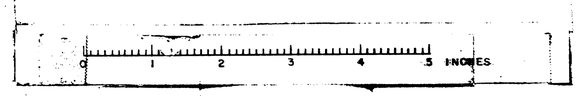
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S48N

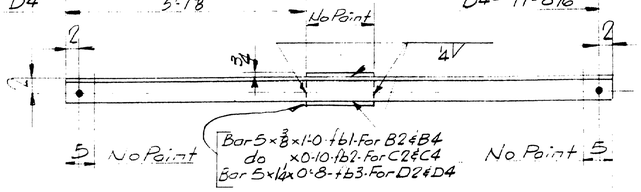
DRAWN	3-5-63	J.P.F.
REVISION		
REVISION		
REVISION		

89-162 B



B2	4'-10⅝
B4	4'-9 11/16
C2	5'-2 15/16
C4	5'-2 5/16
D2	5'-8 1/16
D4	5'-7 3/8

B2 -	10'-6 5/16
B4 -	10'-5 7/16
C2 -	11'-1 3/8
C4 -	11'-0 1/16
D2 -	11'-10 3/16
D4 -	11'-8 13/16



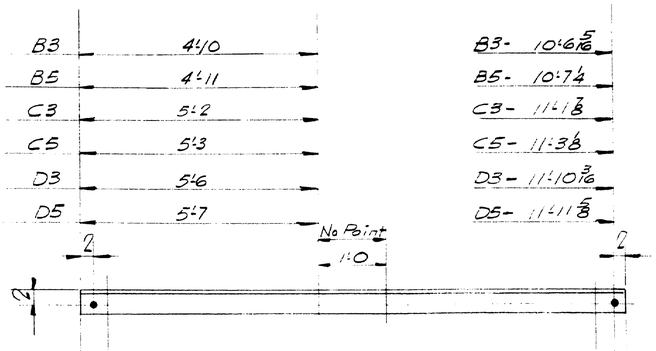
Bar 5×⅜×1'-0 tb1 For B2 & B4
do ×0'-10 tb2 For C2 & C4
Bar 5×1¼×0'-8 tb3 For D2 & D4

B2	10'-4 5/16
B4	10'-3 7/16
C2	10'-11 3/8
C4	10'-10 1/16
D2	11'-8 3/16
D4	11'-6 13/16

15-B2	L 3½×3½×5/16 × 10'-8 5/16
30-B4	Do × 10'-7 7/16
8-C2	Do × 11'-3 3/8
6-C4	Do × 11'-2 1/16
4-D2	- 3½×3½×⅜ × 12'-0 3/16
8-D4	Do × 11'-10 3/16

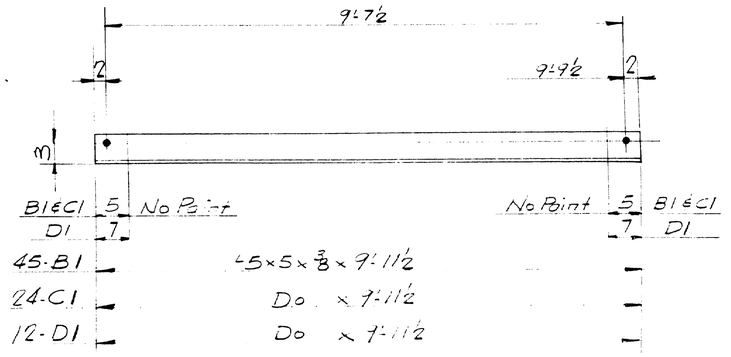
B3	4'-0
B5	4'-11
C3	5'-2
C5	5'-3
D3	5'-6
D5	5'-7

B3-	10'-6 5/16
B5-	10'-7 1/4
C3-	11'-1 3/8
C5-	11'-3 5/8
D3-	11'-10 3/16
D5-	11'-11 3/8



B3	10'-4 5/16
B5	10'-5 1/4
C3	10'-11 3/8
C5	11'-1 1/8
D3	11'-8 3/16
D5	11'-9 5/8

15-B3	L 3½×3½×5/16 × 10'-8 5/16
30-B5	Do × 10'-9 1/4
8-C3	Do × 11'-3 3/8
16-C5	Do × 11'-5 5/8
4-D3	- 3½×3½×⅜ × 12'-0 3/16
8-D5	Do × 12'-1 5/8



45-B1	L 5×5×⅜ × 9'-11½
24-C1	Do × 7'-11½
12-D1	Do × 7'-11½

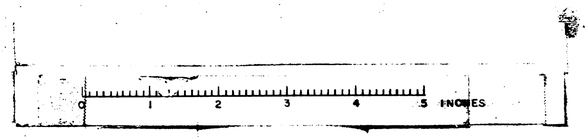
Quantities shown are for One Bridge
Suffix SB to be added to South Bound Cross Frames (Bill of Material 549S)
do NB do do North Bound do (do do 549N)

SHOP CONN: Welded
FIELD CONN: Welded
HOLES: 15/16 ϕ
PAINT: Per State of Maine Specs. & as noted.

SPANS 1 TO 5 S.B. & N.B.
CROSS FRAMES - TYPES B-C & D
Bancroft & Martin Division, Gilbert Company
North Portland, Maine
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO VERBAL SHOP NO 63-5-549

ADD 3-27-63

DRAWN	3-5-63	J.P.F.
REVISION		
REVISION		
REVISION		



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
B1SB	45		L 5×5×3/8	9 11½		
B2SB	15		L 3½×3½×5/16	10 8 5/16		
B3SB	15		Do	10 8 5/16		
B4SB	30		Do	10 7 1/16		
B5SB	30		Do	10 9¼		
	45	fb1	Bar 5×3/8	1 0		
C1SB	24		L 5×5×3/8	9 11½		
C2SB	8		L 3½×3½×5/16	11 3 3/8		
C3SB	8		Do	11 3 3/8		
C4SB	16		Do	11 2 1/16		
C5SB	16		Do	11 5 5/8		
	24	fb2	Bar 5×3/8	0 10		
D1SB	12		L 5×5×3/8	9 11½		
D2SB	4		L 3½×3½×3/8	12 0 7/16		
D3SB	4		Do	12 0 7/16		
D4SB	8		Do	11 10 13/16		
D5SB	8		Do	12 1 5/8		
	12	fb3	Bar 5×14	0 8		
FIELD	430		¾"ø M Bolts	0 1¾		@ Types B & C
Do	80		Do	0 2½		@ Type D

A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S49

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16"ø & as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 S.B

CROSS FRAMES - TYPE B-C & D

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

APP. 3-29-63

DRAWN	3-5-63	J.R.F.
REVISION		
REVISION		
VISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DWG. NO. 63-5-S49S

89-153 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
B1NB	45		L 5×5×3/8	9 11½		
B2NB	15		L 3½×3½×5/16	10 8 5/16		
B3NB	15		Do	10 8 5/16		
B4NB	30		Do	10 7 1/16		
B5NB	30		Do	10 9¼		
	45	fb1	Bar 5×3/8	1 0		
C1NB	24		L 5×5×3/8	9 11½		
C2NB	8		L 3½×3½×5/16	11 3 3/8		
C3NB	8		Do	11 3 3/8		
C4NB	16		Do	11 2 1/16		
C5NB	16		Do	11 5 5/8		
	24	fb2	Bar 5×3/8	0 10		
D1NB	12		L 5×5×3/8	9 11½		
D2NB	4		L 3½×3½×3/8	12 0 7/16		
D3NB	4		Do	12 0 7/16		
D4NB	8		Do	11 10 13/16		
D5NB	8		Do	12 1 5/8		
	12	fb3	Bar 5×14	0 8		
FIELD	430		¾"ø M Bolts	0 1¾		@ Types B & C
Do	80		Do	0 2½		@ Type D

A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S49

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: 13/16"ø & as noted
PAINT: Per Maine Specs & as noted.

SPANS 1 TO 5 N.B.

CROSS FRAMES - TYPE B-C & D

Bancroft & Martin Inc.
South Portland 7, Maine

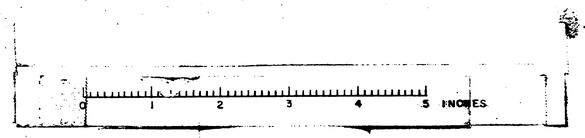
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

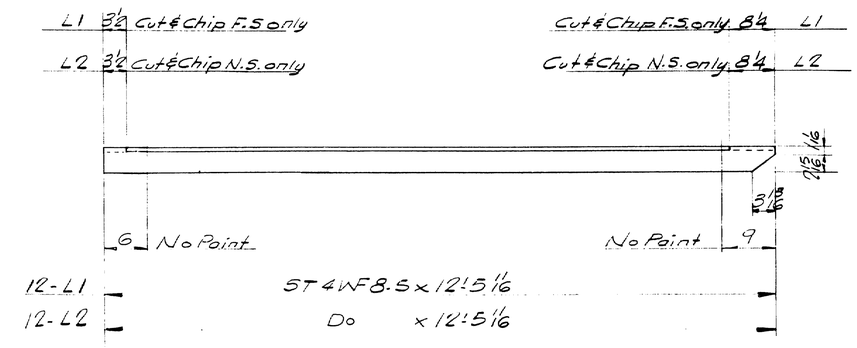
APP. 3-29-63

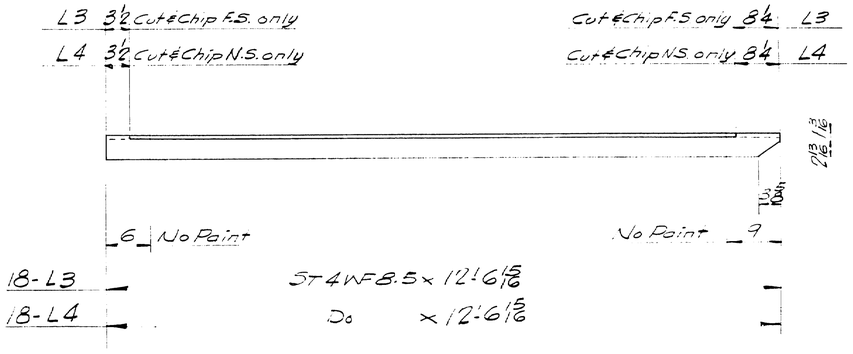
DRAWN	3-5-63	J.R.F.
REVISION		
REVISION		
VISION		

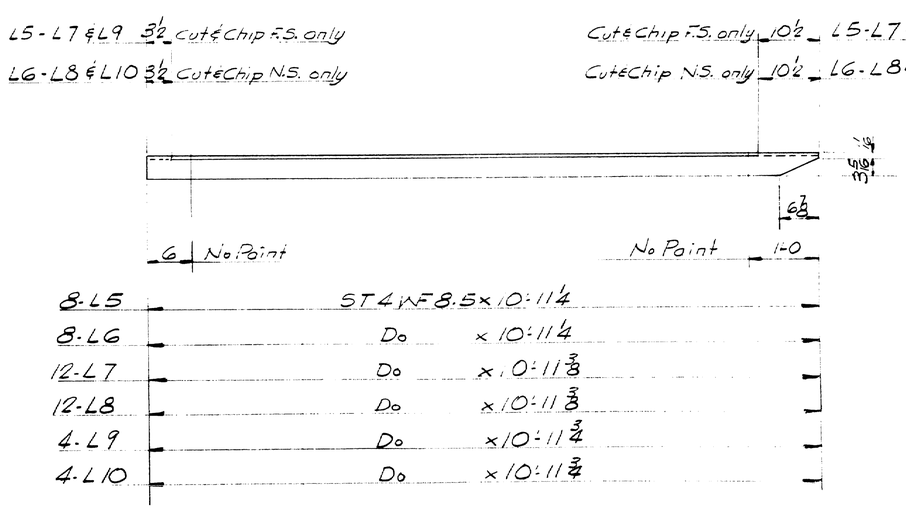
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DWG. NO. 63-5-S49N

89-153 B









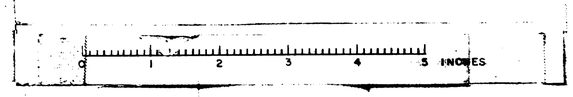
Quantities shown are for One Bridge
Suffix SB to be added to South Bound Bracing (Bill of Material S505)
do NB do do North Bound do (do do S50N)

Field Conn: Welded,
Paint: Per State of Maine
Specs & as noted

Spans 1 to 5 S.B. & N.B.	
Lateral Bracing	
Bureau of Modern Highways, Division of Engineering, South Portland, Maine	
Clinton A. Clauson Mem. Bridge, Fairfield, Maine	
Customer E.C. Snodgrass Inc.	
Designer Maine S.H.C. Bridge Div.	
Order No Verbal	Dwg No 63-5-S50

Drawn	3-8-63 J.P.F.
Revision	
Revision	
Revision	

APP 3-21-63



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
L1SB	12		ST4WF8.5	12 5/16		
L2SB	12			12 5/16		
L3SB	18			12 6 15/16		
L4SB	18			12 6 15/16		
L5SB	8			10 11 1/4		
L6SB	8			10 11 1/4		
L7SB	12			10 11 3/8		
L8SB	12			10 11 3/8		
L9SB	4			10 11 3/4		
L10SB	4		ST4WF8.5	10 11 3/4		

A.S.T.M. Desig. A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S50

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

SPANS 1 TO 5 S.B.

LATERAL BRACING

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

APP 3-29-63

DRAWN	3-8-63	J.P.F.	
REVISION			
REVISION			
VISION			

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 63-5-S50S

89-154 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
L1NB	12		ST4WF8.5	12 5/16		
L2NB	12			12 5/16		
L3NB	18			12 6 15/16		
L4NB	18			12 6 15/16		
L5NB	8			10 11 1/4		
L6NB	8			10 11 1/4		
L7NB	12			10 11 3/8		
L8NB	12			10 11 3/8		
L9NB	4			10 11 3/4		
L10NB	4		ST4WF8.5	10 11 3/4		

A.S.T.M. Desig A7 or A36

STRUCTURAL STEEL ITEM 702.103B

For Details see Dwg. S50

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

SPANS 1 TO 5 N.B.

LATERAL BRACING

Bancroft & Martin Inc.
South Portland 7, Maine

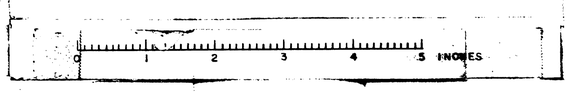
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

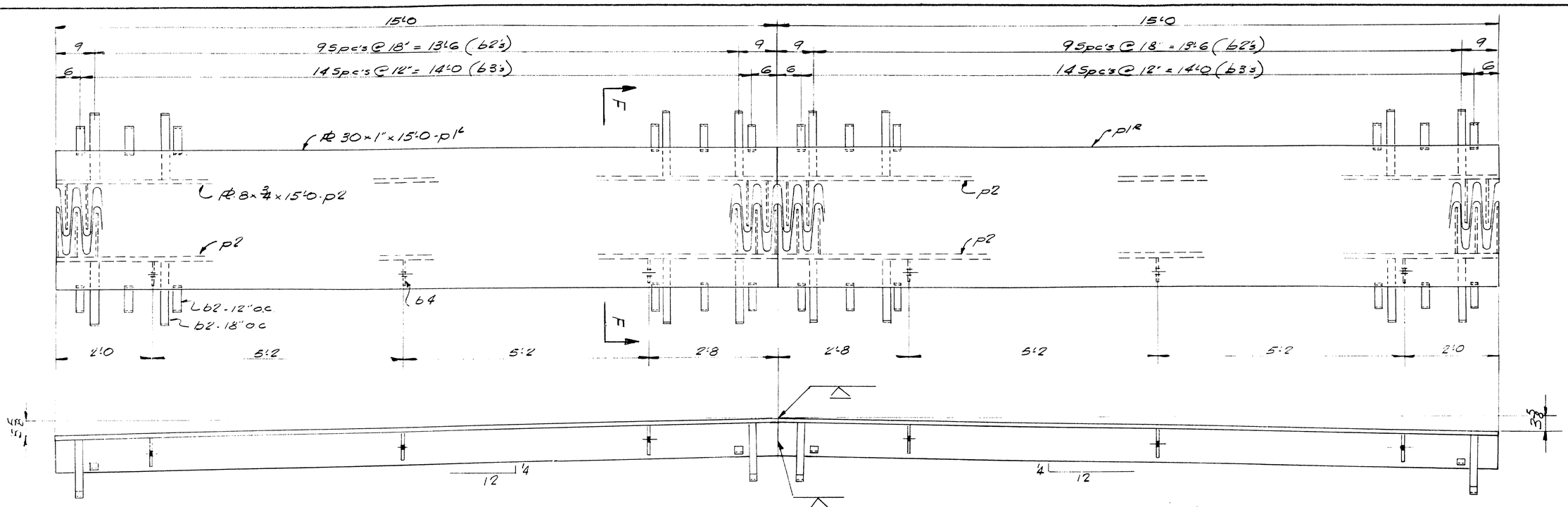
APP 3-29-63

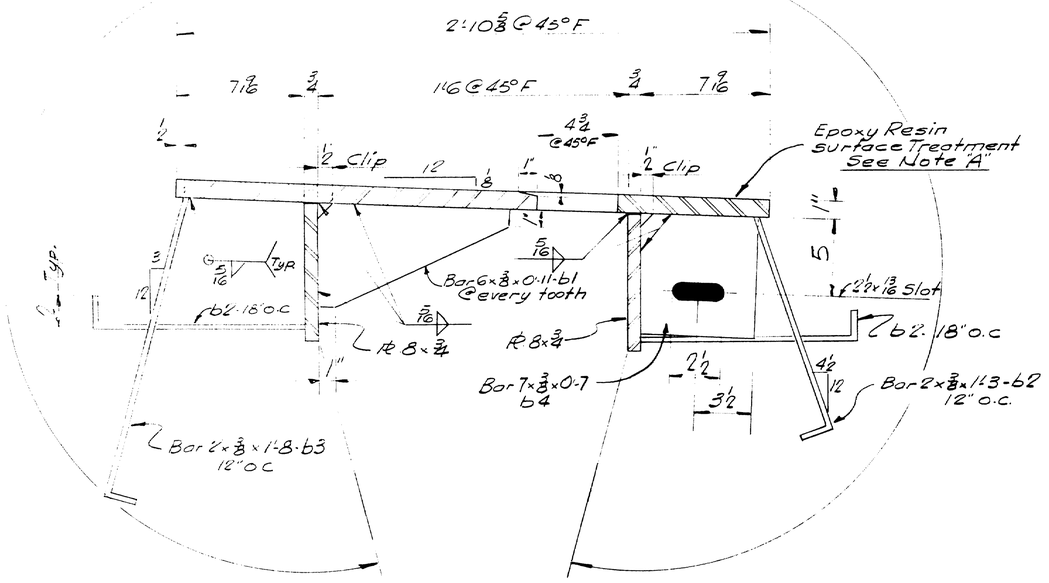
DRAWN	3-8-63	J.P.F.	
REVISION			
REVISION			
VISION			

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL
DWG. NO. 63-5-S50N

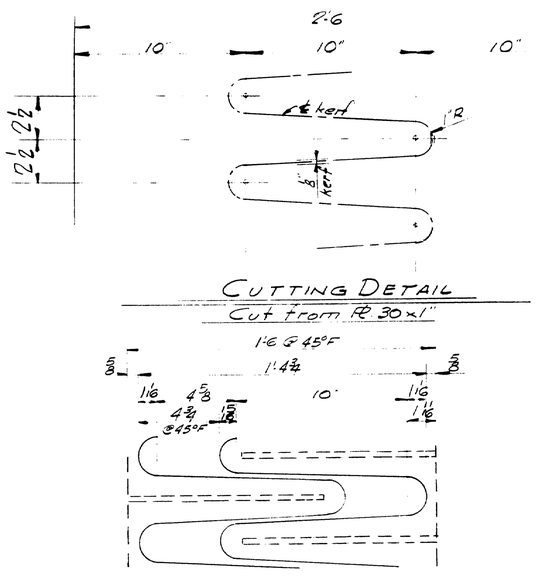
89-154 B





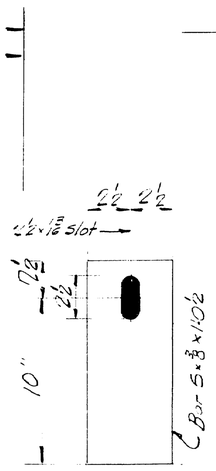


SECTION F-F



CUTTING DETAIL
Cut from PL 30 x 1"

TOOTH DETAIL



b5 - 6 Req'd.
No Paint
Bolt to b4 for shipment
1 - ¾" ø M. Bolt x 2"

Note A
The exposed top surfaces of roadway expansion plates shall be coated in the fabrication shop after assembly, with an approved black epoxy resin, having a skid resistant grit surface, per Supplemental Specifications.

SHOP CONNECTIONS - Bolted
FIELD CONNECTIONS - Bolted
HOLES - As Noted
PAINT - Per Maine Specs & as noted

ABUTMENT # 1 S.B. & N.B.	
EXPANSION - DAN - (Roadway)	
Manufactured by Bown Welding Outlet Company Fairfield, Maine	
CLINTON A. CLAUSON MEM. BRIDGE FAIRFIELD, MAINE	
CUSTOMER E. C. SNODGRASS INC.	
DESIGNER MAINE S.H.C. BRIDGE DIV.	
ORDER NO. VERBAL	DWG. NO. 63-5-551

DRAWN	4-18-63	J.P.F.
REVISION		
REVISION		
REVISION		

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
EDISB	1		Assembly	30	0	—	
	2	p1	PL 30×1"	15	0		
	4	p2	PL 8×3/4	15	0		
	145	b1	Bar 6×3/8	0	11		
	70	b2	Bar 2×3/8	1	3		
	30	b3	Do	1	8		
	6	b4	Bar 7×3/8	0	7		
	6	b5	Bar 5×3/8	1	0½		
	6	SHOP	3/4" H.T.M. Bolts	0	2		

All Mat. A.S.T.M Desig. A-441

Structural Steel Item 702.103B

For Details see Dwg. S51

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: as noted
PAINT: Per Maine Specs & as noted.

See Note "A" → Dwg. S51

ABUTMENT #1-S.B.

EXPANSION DAM (Roadway)

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE.

ADD 4-25-63

DRAWN	4-18-63	J.P.F.
REVISION		
REVISION		
VISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DWG. NO. 63-5-S51S

89-155 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH		WT.	REMARKS
EDINB	1		Assembly	30	0	—	
	2	p1	PL 30×1"	15	0		
	4	p2	PL 8×3/4	15	0		
	145	b1	Bar 6×3/8	0	11		
	70	b2	Bar 2×3/8	1	3		
	30	b3	Do	1	8		
	6	b4	Bar 7×3/8	0	7		
	6	b5	Bar 5×3/8	1	0½		
	6	SHOP	3/4" H.T.M. Bolts	0	2		

All Mat. A.S.T.M Desig. A-441

Structural Steel Item 702.103B

For Details see Dwg. S51

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: as noted
PAINT: Per Maine Specs & as noted.

See Note "A" → Dwg. S51

ABUTMENT #1-N.B.

EXPANSION DAM (Roadway)

Bancroft & Martin Inc.
South Portland 7, Maine

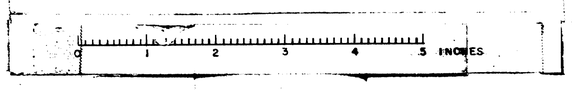
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE.

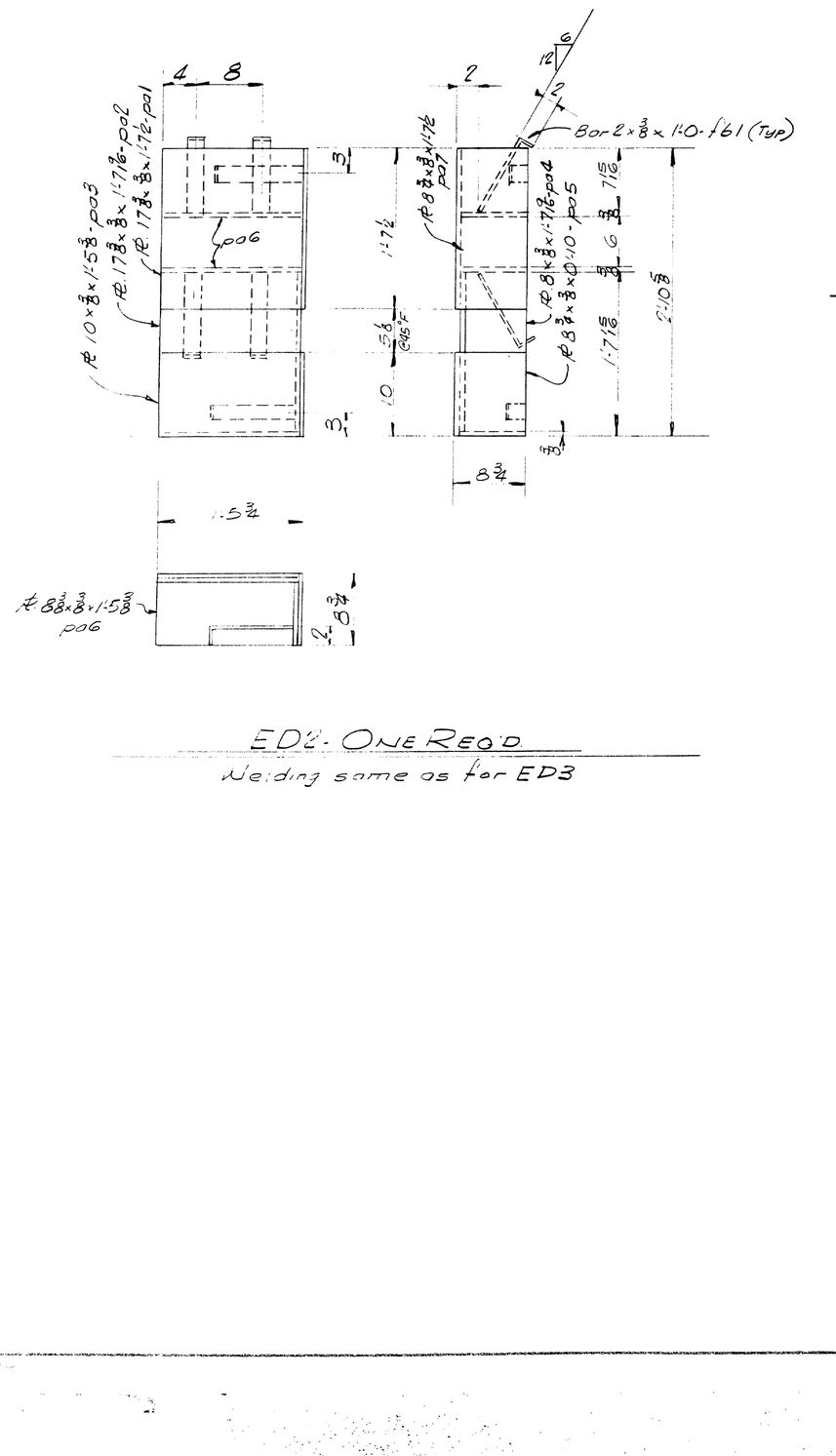
ADD 4-25-63

DRAWN	4-18-63	J.P.F.
REVISION		
REVISION		
VISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DWG. NO. 63-5-S51N

89-155 B





ED2 - ONE REQ'D.

Welding same as for ED3

ED3 - ONE REQ'D.

Dimensions not shown same as ED2

Quantities shown are for One Bridge
Suffix SB to be added to South Bound Dams (Bill of Material 5545)
do NB do do North Bound Dams (do do 5542N)

SHOP PAINT: Welded
PAINT: Per Maine Specs as noted

ABUTMENT #1 S.B. & N.B.

EXPANSION DAMS (Curbs)

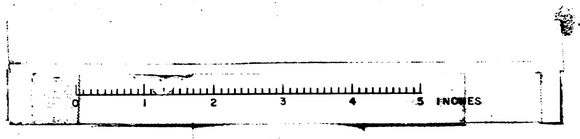
Dramm & Hurlbut Sheet Metal Company
Waterville, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

APPROVED

DRAWN	4-18-63	J.P.F.
REVISION		
REVISION		
REVISION		

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.
ORDER NO. VERBAL DWG NO. 63-5-552



SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
ED2SB	1		Assembly	2 10 5/8	—	
ED3SB	1		Do	2 10 5/8	—	
	2	pa1	Pl 17 3/8 x 3/8	1 7 1/2		
	2	pa2	Do	1 7 1/16		
	2	pa3	Pl 10 x 3/8	1 5 3/8		
	2	pa4	Pl 8 x 3/8	1 7 1/16		
	2	pa5	Pl 8 3/4 x 3/8	0 10		
	4	pa6	Pl 8 3/8 x 3/8	1 5 3/8		
	2	pa7	Pl 8 3/4 x 3/8	1 7 1/2		
	12	fb1	Bar 2 x 3/8	1 0		

All Mat. A.S.T.M Desig. A-441

Structural Steel Item 702-103B

For Details see Dwg. 552

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: as noted
PAINT: Per Maine Specs & as noted.

ADD 4-25-63

ABUTMENT #1 - S.B.

EXPANSION DAMS (Curbs)

Bancroft & Martin Inc.
South Portland 7, Maine

CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S 525

DRAWN	4-18-63	J.P.F.
REVISION		
REVISION		
EVISION		

89-156 A

SHIP MARK	NO.	MARK	SHAPE	LENGTH	WT.	REMARKS
ED2NB	1		Assembly	2 10 5/8	—	
ED3NB	1		Do	2 10 5/8	—	
	2	pa1	Pl 17 3/8 x 3/8	1 7 1/2		
	2	pa2	Do	1 7 1/16		
	2	pa3	Pl 10 x 3/8	1 5 3/8		
	2	pa4	Pl 8 x 3/8	1 7 1/16		
	2	pa5	Pl 8 3/4 x 3/8	0 10		
	4	pa6	Pl 8 3/8 x 3/8	1 5 3/8		
	2	pa7	Pl 8 3/4 x 3/8	1 7 1/2		
	12	fb1	Bar 2 x 3/8	1 0		

All Mat. A.S.T.M Desig. A-441

Structural Steel Item 702-103B

For Details see Dwg. 552

SHOP CONNECTIONS: Welded
FIELD CONNECTIONS: Welded - Bolted
HOLES: as noted
PAINT: Per Maine Specs & as noted.

ADD 4-25-63

ABUTMENT #1 - N.B.

EXPANSION DAMS (Curbs)

Bancroft & Martin Inc.
South Portland 7, Maine

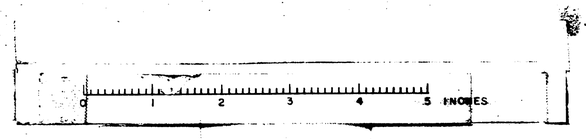
CLINTON A. CLAUSON MEM. BRIDGE
FAIRFIELD, MAINE

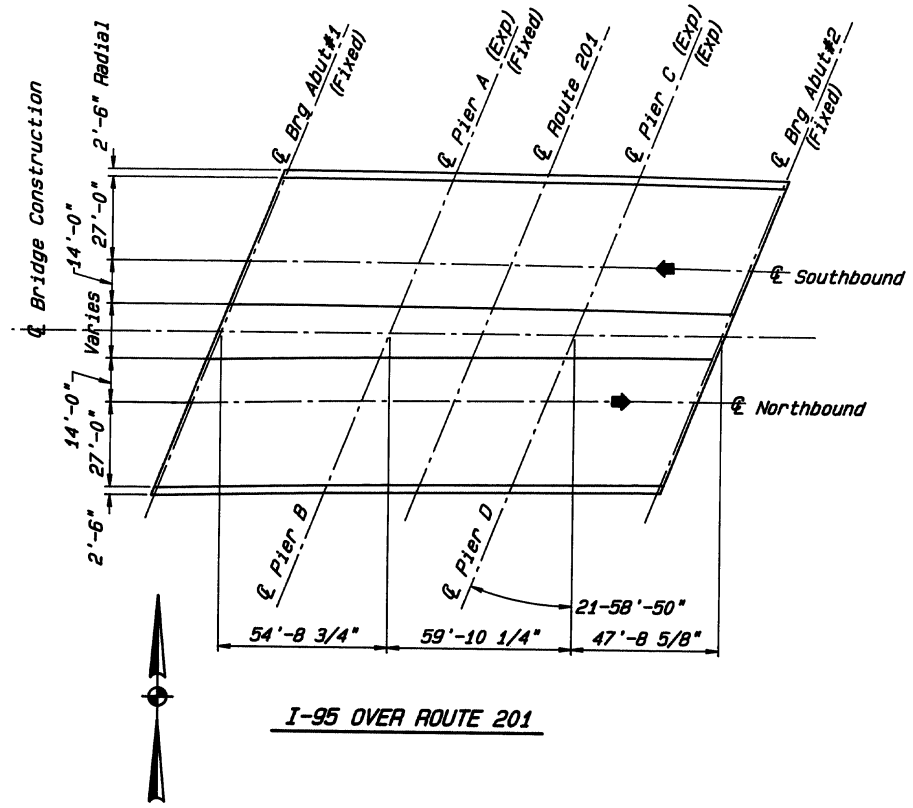
CUSTOMER E.C. SNODGRASS INC.
DESIGNER MAINE S.H.C. BRIDGE DIV.

ORDER NO. VERBAL | DWG. NO. 63-5-S 52N

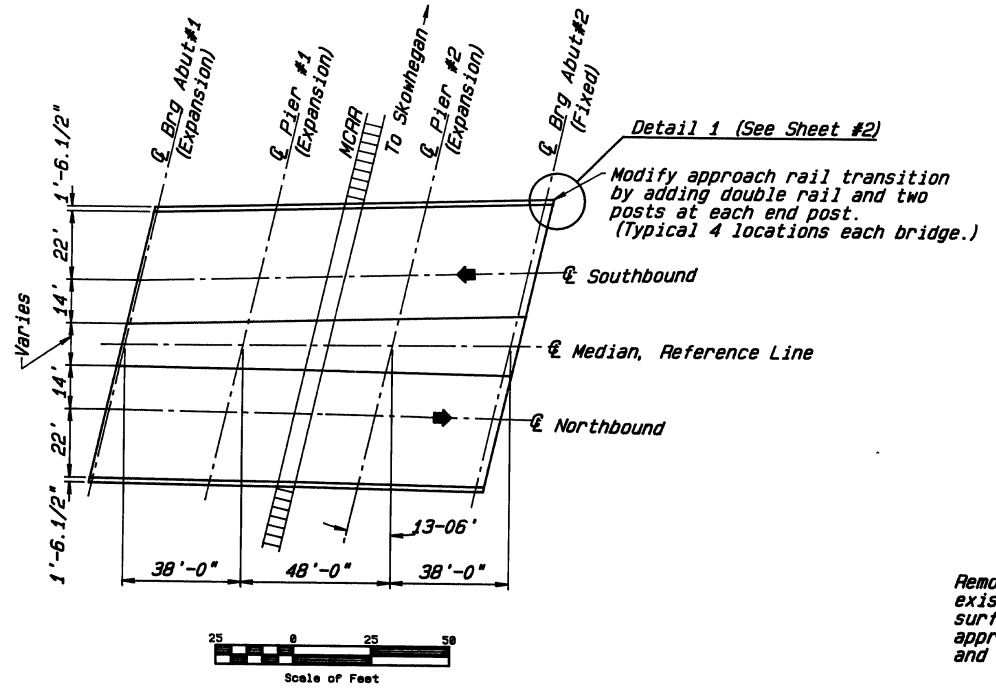
DRAWN	4-18-63	J.P.F.
REVISION		
REVISION		
VISION		

89-156 B

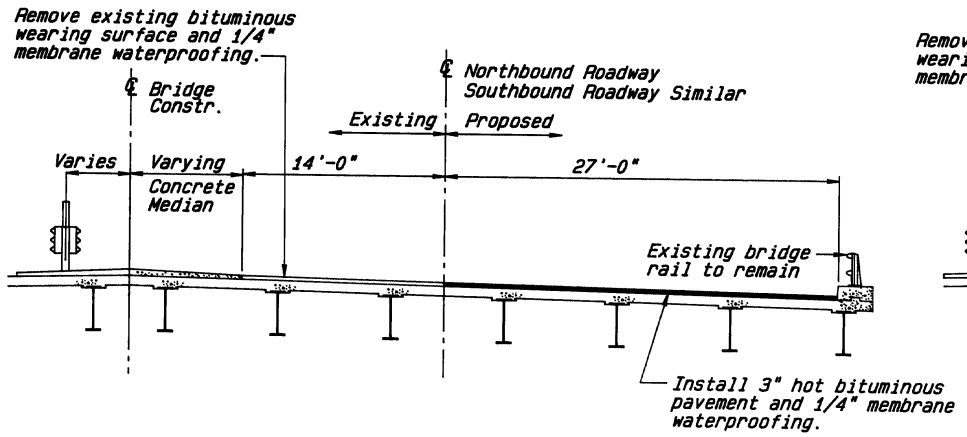




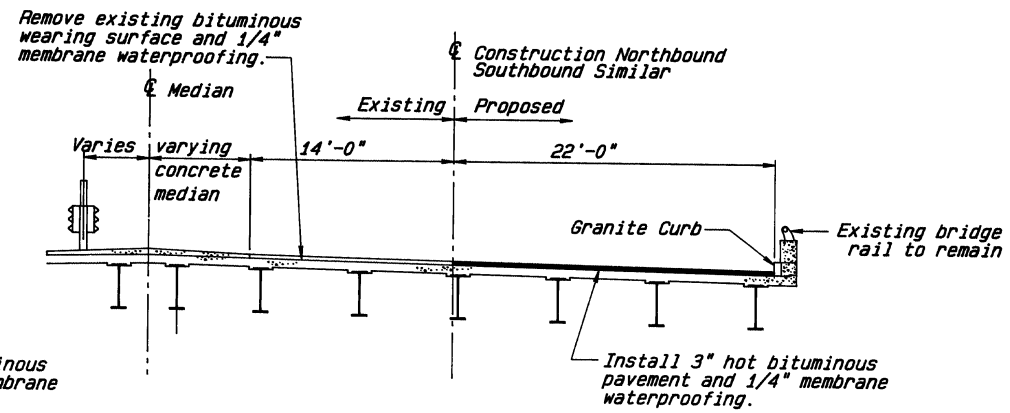
I-95 OVER ROUTE 201



I-95 OVER MAINE CENTRAL RAILROAD



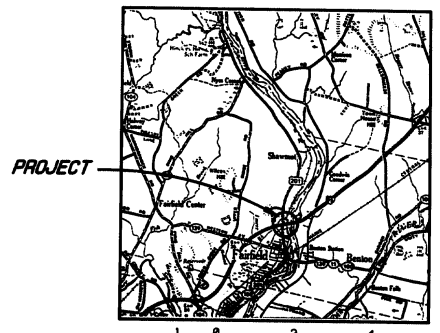
I-95 OVER ROUTE 201



I-95 OVER MAINE CENTRAL RAILROAD

PIN 004599.00

F.A.H.S. RES. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-IM-95-7(121)	6	28



LOCATION MAP

SCOPE OF WORK

Remove existing bituminous wearing surface and existing membrane. Replace with 3" bituminous wearing surface and 1/4" membrane waterproofing. Modify approach rail transition by adding one double rail and two posts at each end post.

MAINTENANCE OF TRAFFIC

Maintain one 15'-0" minimum lane of traffic in each direction.

TRAFFIC DATA

I-95 over Route 201

	I-95 N.B.	I-95 S.B.
Current (1992) AADT	10630	7740
Future (2012) AADT	17010	12380
DHV - % of AADT	13	13
Design Hour Volume	2211	1609
% Heavy Trucks (AADT)	14	14
% Heavy Trucks (DHV)	7	7
Directional Distribution (DHV)	100	100

I-95 over MCRR

	I-95 N.B.	I-95 S.B.
Current (1992) AADT	7970	7740
Future (2012) AADT	12750	12380
DHV - % of AADT	13	13
Design Hour Volume	1658	1609
% Heavy Trucks (AADT)	14	14
% Heavy Trucks (DHV)	7	7
Directional Distribution (DHV)	100	100

6

As built 1993

107-317

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

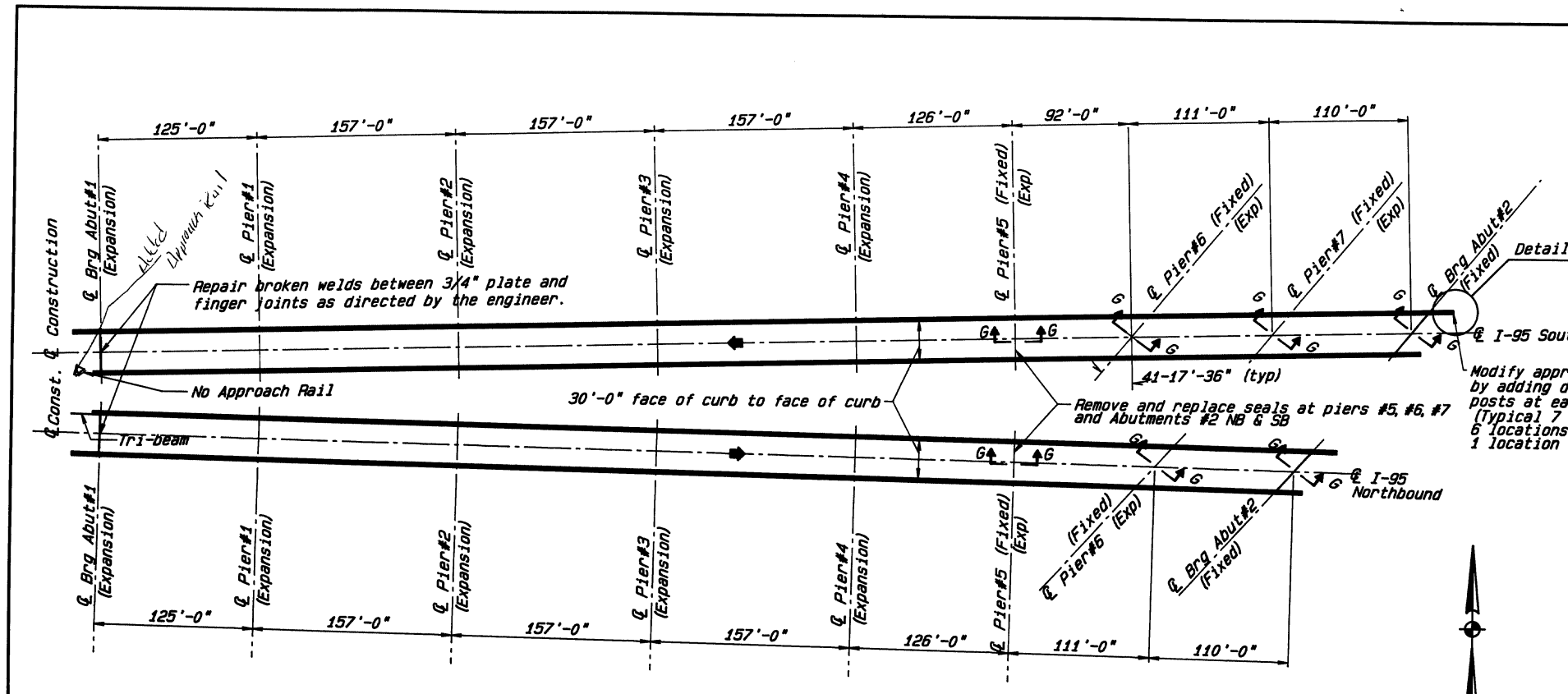
WEARING SURFACE REPLACEMENT
I-95 OVER ROUTE 201
I-95 OVER MAINE CENTRAL RAILROAD
IN THE TOWN OF
FAIRFIELD
SOMERSET COUNTY

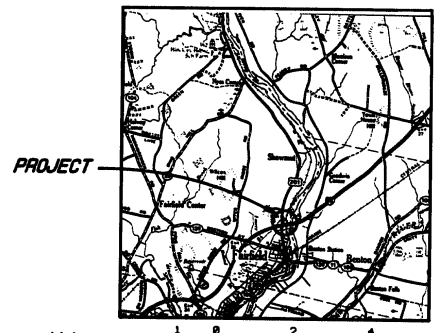
GENERAL PLAN

SHEET 1 OF 3 AUGUSTA, MAINE MAY 1992

PIN 004599.00

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IR-IM-95-7(121)	7	28





LOCATION MAP

SCOPE OF WORK

Remove existing bituminous wearing surface and existing membrane. Replace with 3" bituminous wearing surface and 1/4" membrane waterproofing. Modify approach rail transition by adding one double rail and two posts at each end post. Remove and replace joint seals at piers #5, #6, G#7 SB, piers #5 & #6 NB, and abutment #2 NB & SB. Add weld to 3/4" PL at abutment #1 NB & SB.

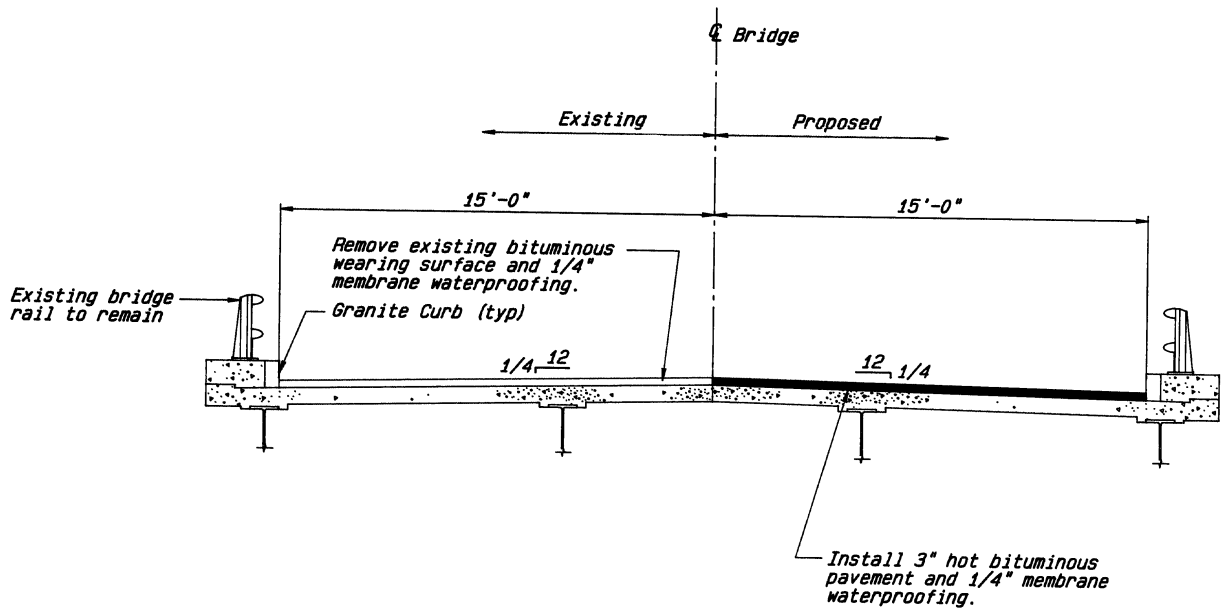
MAINTENANCE OF TRAFFIC

Maintain one 15'-0" minimum lane of traffic in each direction.

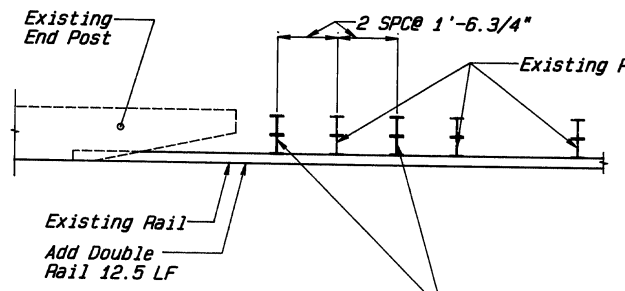
Clinton Clauson

	I-95 N.B.	I-95 S.B.
Current (1992) AADT	7970	7740
Future (2012) AADT	12750	12380
DHV - % of AADT	13	13
Design Hour Volume	1658	1609
% Heavy Trucks (AADT)	14	14
% Heavy Trucks (DHV)	7	7
Directional Distribution (DHV)	100	100

CLINTON A. CLAUSON MEMORIAL BRIDGE



TRANSVERSE SECTION



DETAIL 1

107-318 1

Refer to Sheet 3 for Section G-G

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WEARING SURFACE REPLACEMENT
CLINTON A. CLAUSON
MEMORIAL BRIDGES
OVER THE
KENNEBEC RIVER
IN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

GENERAL PLAN

SHEET 2 OF 3 AUGUSTA, MAINE MAY 1992

PIN 884599.00

F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	IM-IM-95-7(121)	8	28

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY				UNIT
		RT. 201	MCRR	Clinton Clauson	TOTAL	
202.127	Removing of Existing Bituminous Pavement	0.10	0.08	0.46	0.64	LS
403.10	Hot Bituminous Pavement, Grading D	247	169	1089	1505	TON
508.13	Membrane Waterproofing	0.10	0.08	0.46	0.64	LS
518.39	Repairing Granite Curb Bedding Mortar	-	64	990	1054	LF
520.243	Bridge Joint Modification - Type III	-	-	7	7	EA
526.301	Temporary Concrete Barrier-Type I	0.04	0.03	0.47	0.54	LS
527.32	Portable Crash Barrels	6	6	6	18	EA
606.48	Single Galvanized Steel Post	8	8	14	30	EA
627.611	6 Inch Solid White Pavement Marking Line	340	260	2000	2600	LF
627.621	6 Inch Broken White Pavement Marking Line	870	800	2530	4200	LF
627.631	6 Inch Solid Yellow Pavement Marking Line	340	260	2000	2600	LF
627.67	Removing Pavement Markings	66	67	67	200	SF
627.691	Tem 6" Plastic Pave Marking Line, Yellow or White	3400	3100	10,100	16600	LF
639.18	Field Office Type "A"	0.07	0.06	0.07	0.20	EA
639.22	Testing Facilities Bituminous Mixes	0.10	0.07	0.47	0.64	LS
652.30	Flashing Arrow Board	2	-	-	2	EA
652.31	Type I Barricade	20	10	10	40	EA
652.33	Drum	4	2	2	8	EA
652.34	Cone	10	10	10	30	EA
652.35	Construction Signs	125	100	100	325	SF
652.361	Maintenance of Traffic Control Devices	0.14	0.15	0.15	0.44	LS
652.38	Flagger	100	100	100	300	NH
659.10	Mobilization	0.07	0.06	0.07	0.20	LS

ESTIMATE of LUMP SUM QUANTITIES

202.127	Removing of Existing Bituminous Pavement	1500	1025	6600	9125	SY
508.13	Membrane Waterproofing	1500	1025	6600	9125	SY

General Construction Notes:

1. The Contractor's operations shall be conducted such that traffic will not travel on an unsurfaced concrete deck at any time. Existing bituminous pavement shall be removed and new bituminous pavement shall be placed to facilitate this requirement.

2. All utility facilities shall be adjusted by the respective utilities unless noted. Utilities: Central Maine Power, New England Telephone, Better Cable TV and Maine Central Railroad.

3. The upturned ends of the compression seals shall be sealed in a manner approved by the Engineer.

4. Payment for the repair of broken welds between 3/4" plate and finger joints at abutment #1 N.B. and S.B. will be made in accordance with subsection 104.03, Extra Work.

5. The Tri-beam rail and posts will be paid at 1.5 times the bid price for Item 606.178, Rail Beam and Item 606.48, Single Galvanized Steel Post.

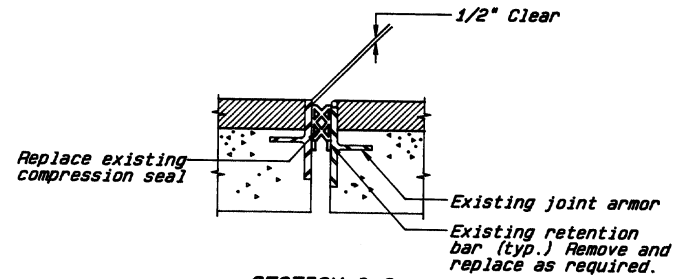
Compression Seal Notes

1. The seal shall be approved by the Engineer before ordering.

2. The existing joint seals shall be carefully removed from the pier and abutment joints. Seals shall remain the property of the Department and shall be delivered to the nearest MDOT maintenance yard. Payment will be considered incidental to related contract items.

3. The joint seals to be furnished shall have a Movement Rating of:

	NB	SB
Pier #5	1 3/8"	1 1/2"
Pier #6	1 3/8"	1 3/8"
Pier #7	-	1 3/8"
Abut #2	1/2"	1/2"



SECTION G-G

BRIDGE JOINT MODIFICATION TYPE III

Clinton A. Clauson:
Abutment #2, NB & SB
Piers 5 & 6, NB & SB
Pier 7, NB

107-319 8

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WEARING SURFACE REPLACEMENT
I-95 OVER ROUTE 201
I-95 OVER MAINE CENTRAL RAILROAD
CLINTON A. CLAUSON
MEMORIAL BRIDGES
IN THE TOWNS OF
FAIRFIELD AND BENTON
SOMERSET AND KENNEBEC COUNTIES

ESTIMATED QUANTITIES & GENERAL NOTES

SHEET 3 OF 3 AUGUSTA, MAINE MAY 1992