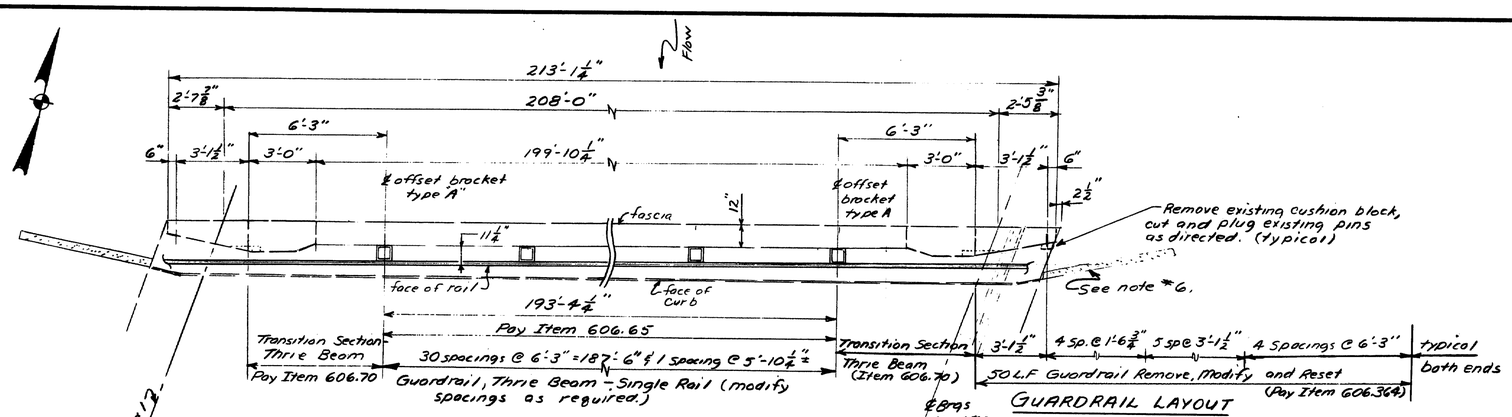
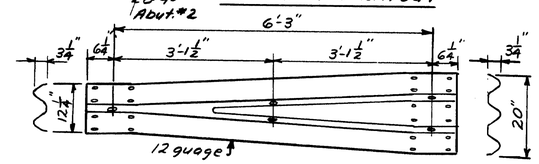
F.A.H.S. REG. NO.	STATE	PROJECT NUMBER	SHEET NO	TOTAL SHEETS
1	MAINE	F-042P(44)	15	32



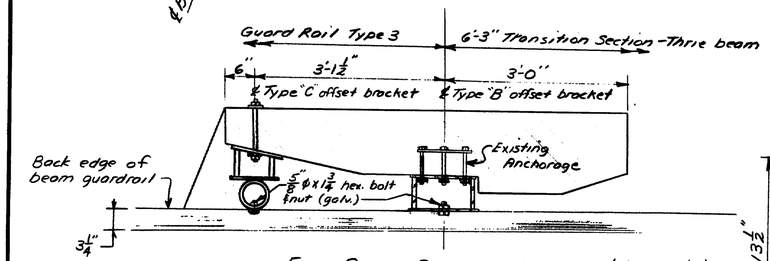
BRIDGE RAILING PLAN

(Upstream as shown, downstream similar)

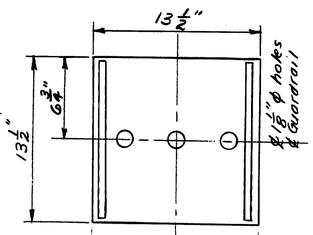


GUARDRAIL LAYOUT

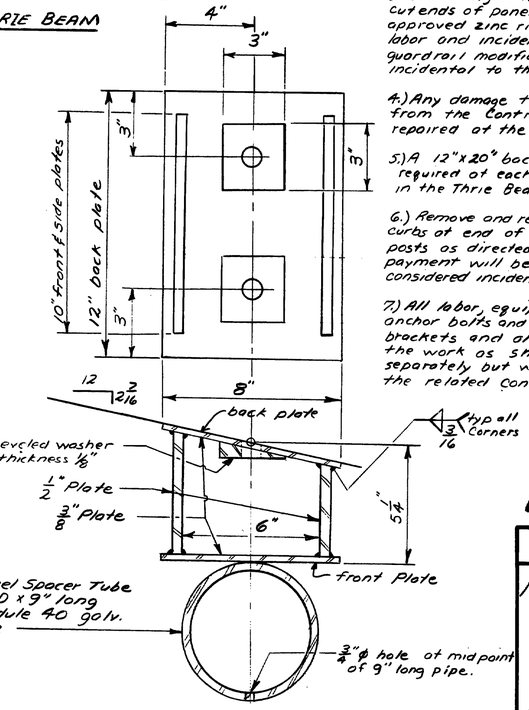
TRANSITION SECTION-THRIE BEAM



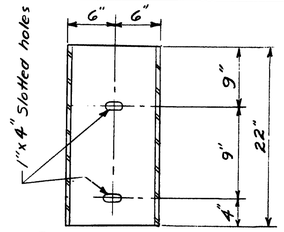
END POST SECTION (Cut along ℄ Guardrail)



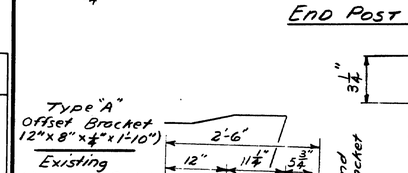
BACK PLATE



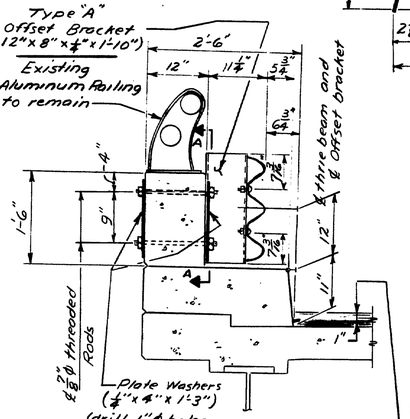
TYPE "C" OFFSET BRACKET



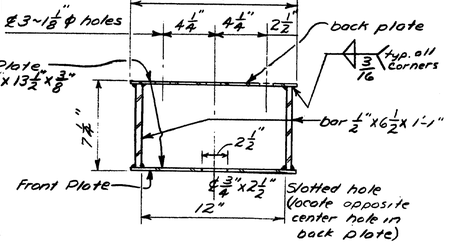
SECTION A-A (type "A" offset bracket)



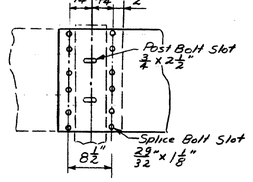
THRIE BEAM SECTION



THRIE BEAM ELEVATION



TYPE "B" OFFSET BRACKET



Grind off 1" Bituminous wearing surface and overlay with 1" Hot Bituminous Pavement Grading "C". (Pay Items 202.202 & 403.08)

NOTES

1.) Dimmensions shown are from existing plans, and all dimmensions shall be field verified by the Contractor before fabricating Thrie Beam Railing and offset brackets.

2.) All steel required for the offset brackets shall be ASTM A36 or equal. All bolts or anchor rods shall be ASTM A325 or equal. All steel, including anchor bolts and rods, shall be hot dipped galvanized after fabrication.

3.) Additional holes in the guardrail panels may be made by drilling, punching or other method that produces a neat clean hole of the required size. Burning of holes will not be allowed. Paint the cut ends of panels and all new holes with an approved zinc rich paint. All materials, equipment labor and incidentals required to complete the guardrail modifications shall be considered incidental to the related guardrail pay items.

4.) Any damage to the existing concrete resulting from the Contractors operations shall be repaired at the Contractors expense.

5.) A 12"x20" back up plate (RE-64) will be required at each intermediate offset bracket in the Thrie Beam railing.

6.) Remove and reset the 6'± long granite terminal curbs at end of the bridge to clear guard rail posts as directed by the Engineer. No separate payment will be made as this work will be considered incidental to guard rail pay items

7.) All labor, equipment, hardware, including anchor bolts and rods, plate washers, offset brackets and all incidentals required to complete the work as shown will not be paid for separately but will considered incidental to the related contract items.

PROJECT DESIGN ENGINEER	BY	DATE
PLANS — DESIGN - DETAILED	T.W.M.	3-89
CHECKED		
REVISIONS		
FIELD CHANGES		

102-494

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

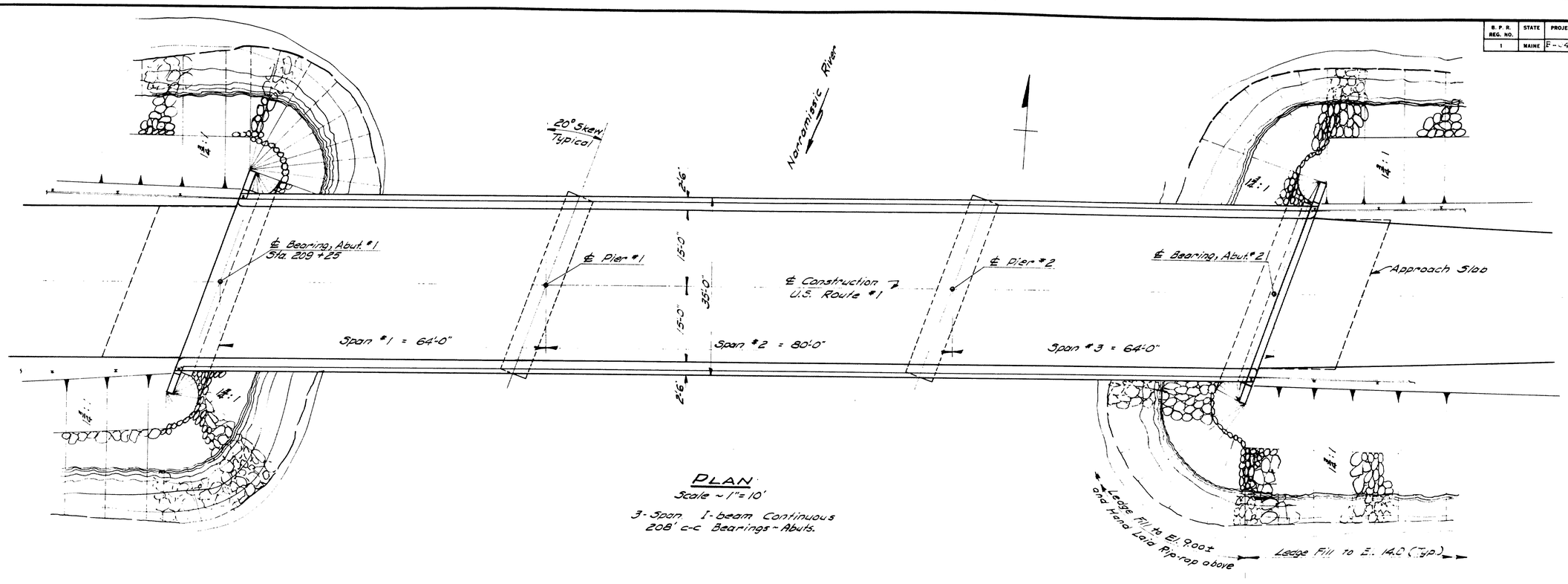
NARRAMISSIC RIVER BRIDGE
in the town of
ORLAND
HANCOCK COUNTY
BRIDGE RAILING MODIFICATIONS

SHEET 1 OF 1 AUGUSTA, MAINE MAY 1989

BUCKSPORT - ORLAND

BRUNING 457101

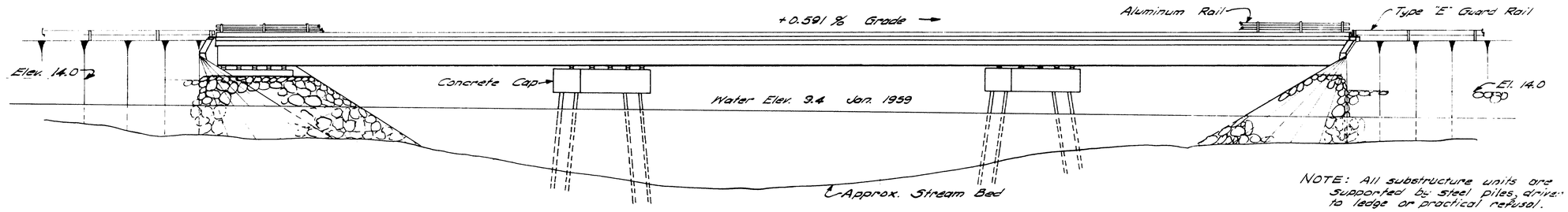
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-[illegible] (8)	10	93



PLAN

Scale ~ 1" = 10'

3-Span I-beam Continuous
208' c-c Bearings - Abuts.



NOTE: All substructure units are supported by steel piles, driven to ledge or practical refusal.

ELEVATION

Scale 1" = 10'

DESIGN SPECIFICATIONS

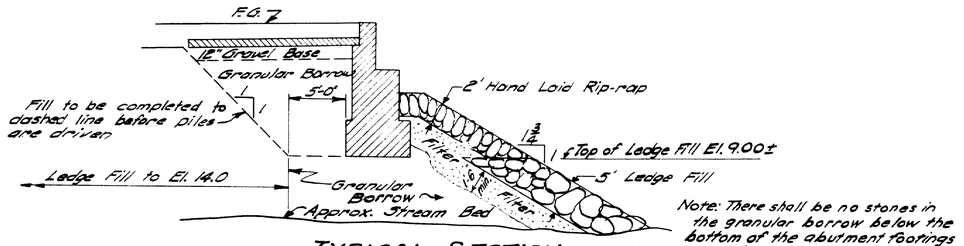
A.A.S.H.O. Standard Specifications for Highway Bridges 1957.
Loading = H20-S16-44, fs = 18,000 psi, fc = 1200 psi, n = 10

CONTRACT SPECIFICATIONS

State of Maine, State Highway Commission
Standard Specification, Revision of Jan. 1956.

CONCRETE CLASSIFICATION

All Concrete Class "A".



Note: There shall be no stones in the granular borrow below the bottom of the abutment footings larger than 6".
Payment for placing the Ledge Fill will be included in the price for Rock Excavation.

TYPICAL SECTION

Normal to abutments

DESIGN - R.A.S. TRACE - B.W.C. CHECK -	BRIDGE NO. SURVEY - PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

GENERAL PLAN & ELEVATION

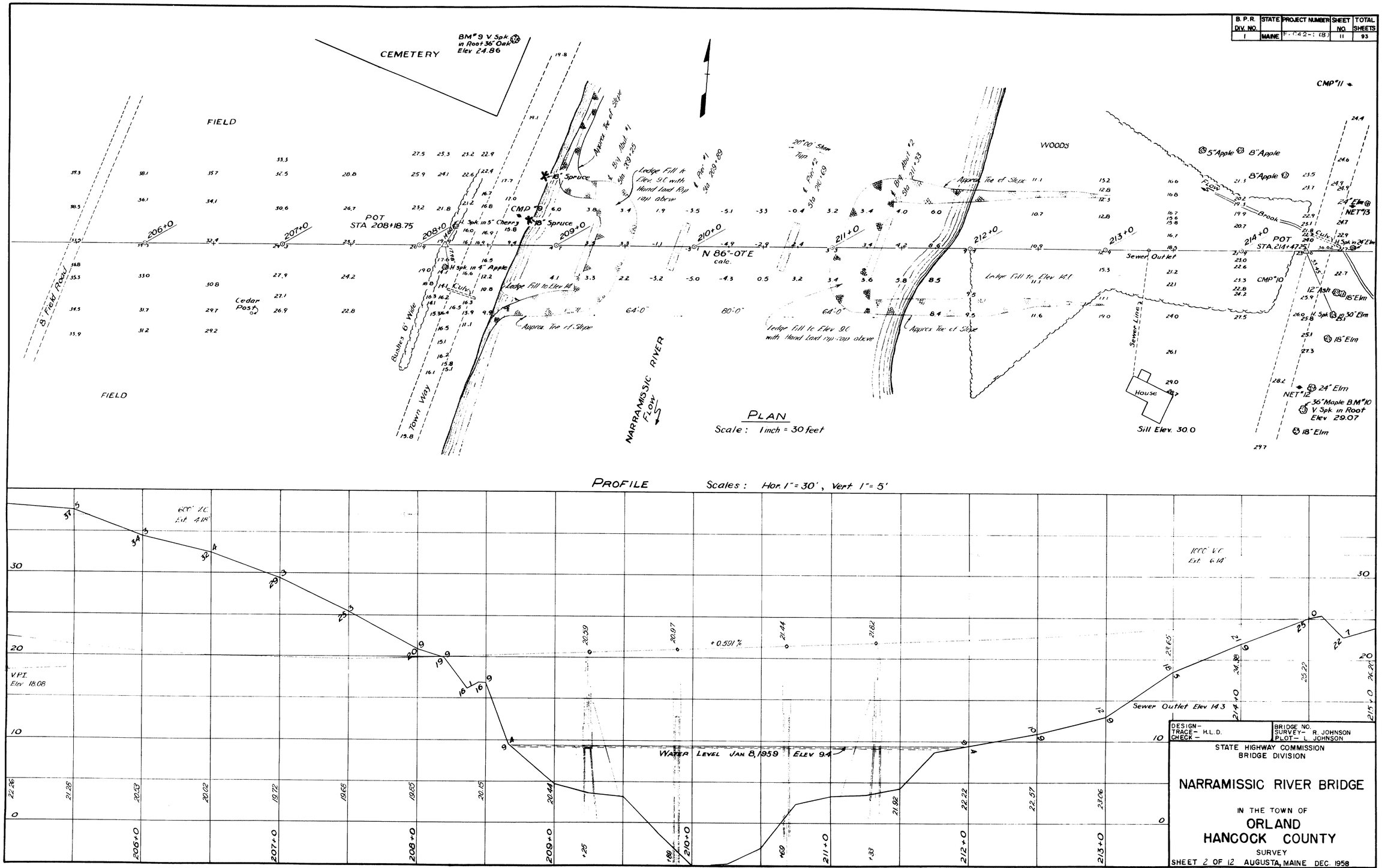
SHEET 1 OF 12 AUGUSTA, MAINE AUG. 1959

M-1281

C. B. CO. NO. 378

0 1 2 3 4 5 INCHES

B. P. R. DIV. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1 (8)	11	93



DESIGN –
TRACE – H.L.D.
CHECK –

BRIDGE NO.
SURVEY – R. JOHNSON
PLOT – L. JOHNSON

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND
HANCOCK COUNTY

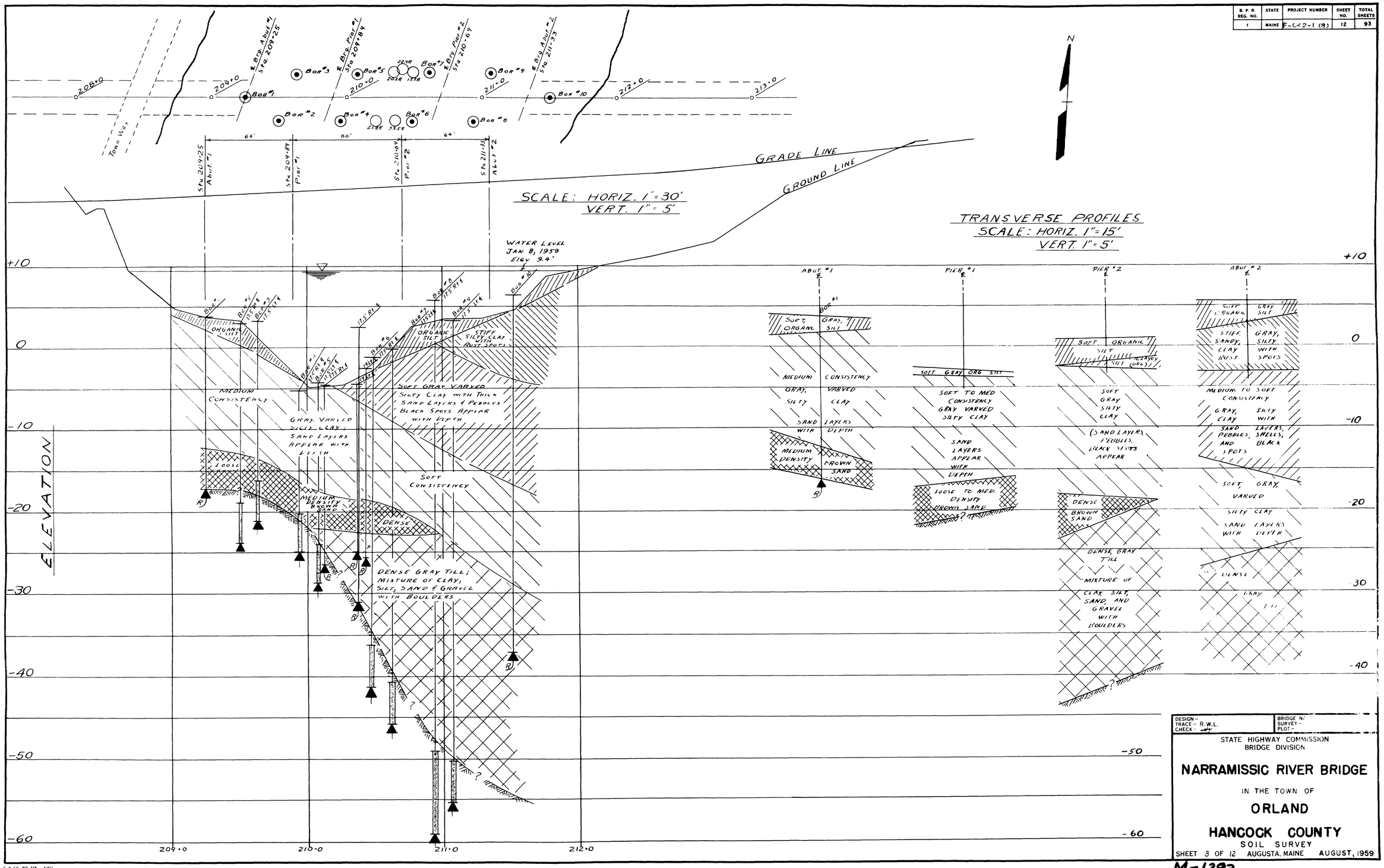
SURVEY

SHEET 2 OF 12 AUGUSTA, MAINE DEC. 1958

M-1282

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-062-1 (8)	12	93



DESIGN –
TRACE – R.W.L.
CHECK –
BRIDGE NO.
SURVEY –
PLOT –

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

SOIL SURVEY

SHEET 3 OF 12 AUGUSTA, MAINE AUGUST, 1959

M-1283

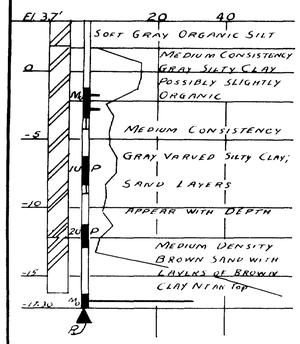
C. H. CO. NO. 379

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1 (8)	13	93

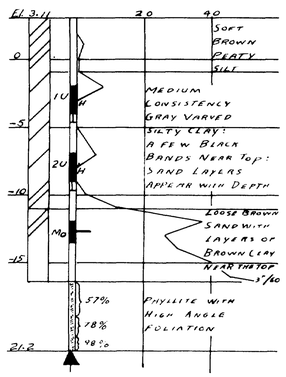
DRIVING RESISTANCE (BLOWS/FT.)

BORING NO. 1 (4" CASING)
STA. 209+25 ℄



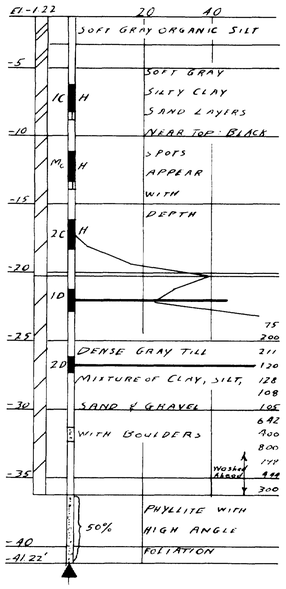
DRIVING RESISTANCE (BLOWS/FT)

BORING No 3 (4" CASING)
STA 209+63 17.5' Lt ℄



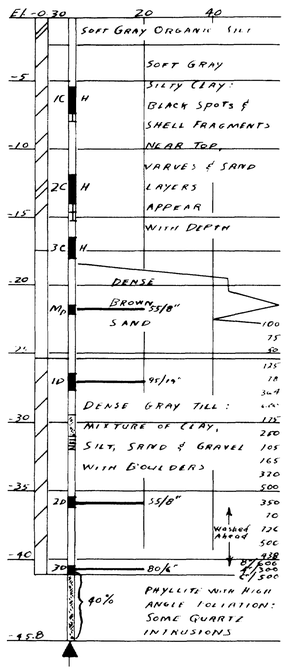
DRIVING RESISTANCE (BLOWS/FT.)

BORING NO. 6
STA. 210+47 17.5' Rt ℄



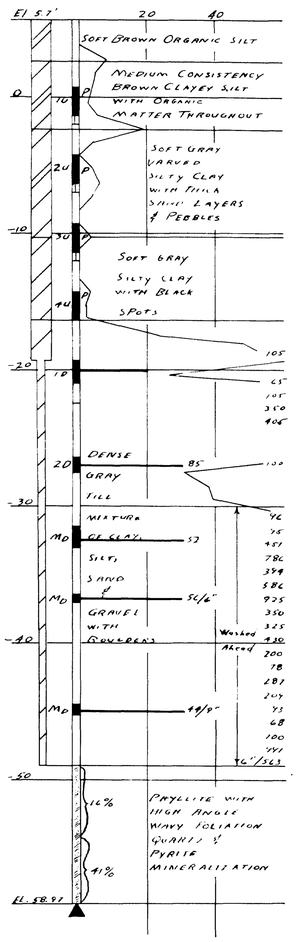
DRIVING RESISTANCE (BLOWS/FT)

BORING NO. 7 (2½" CASING)
STA 210+62 17.5' Lt ℄



DRIVING RESISTANCE (BLOWS/FT)

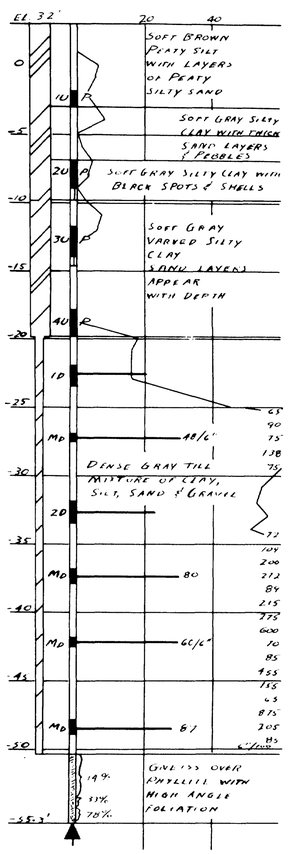
BORING NO. 8 (4" & 2½" CASING)
STA 210+93 17.5' Rt ℄



NOTE:
Moved 10.5' Rt ℄ at 30' Depth Because of Rocks

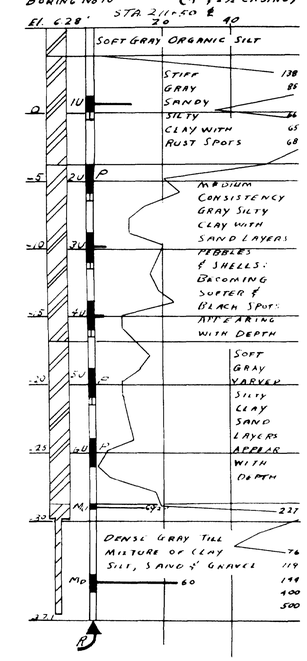
DRIVING RESISTANCE (BLOWS/FT)

BORING NO. 9 (4" & 2½" CASING)
STA. 211+06 17.5' Lt ℄

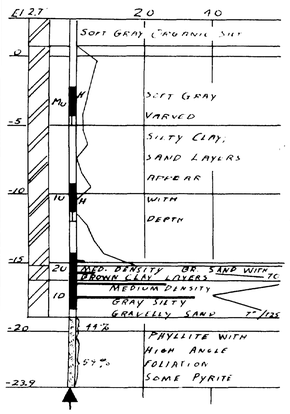


DRIVING RESISTANCE (BLOWS/FT)

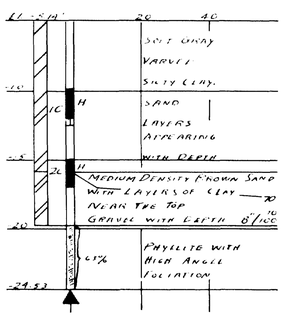
BORING No 10 (4" & 2½" CASING)
STA. 211+50 ℄



BORING No. 2 (4" CASING)
STA 209+50 17.5' Rt ℄

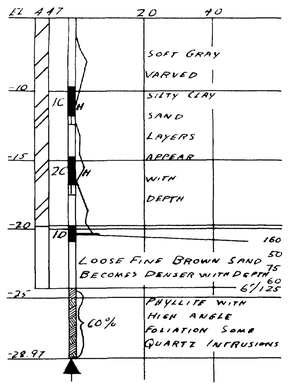


BORING No 4 (3½" CASING)
STA 209+99 17.5' Rt ℄



DRIVING RESISTANCE (BLOWS/FT)

BORING NO 5 (2½" CASING)
STA 210+07 15.5' Lt ℄



Boring Notes

All samples and vanes are made ahead of casing.

Scales and casing size as noted on drawings.

Ground water table indicated thus:

Number of blows of 2.75" hammer falling 18 inches req'd to drive extra heavy casing one foot thus:

Location and designation of "dry" samples taken in 3" O.D. 16 ga. seamless tubing indicated thus: 1U

Boring Notes

Location and designation of "dry" samples taken in 2" O.D. 16 ga. seamless tubing indicated thus: 1C

Location and designation of "dry" samples taken in 3½" O.D. 16 ga. seamless tubing indicated thus: 1U

Unsuccessful attempts to secure dry sample indicated thus, followed by type of sampler: (Graphical) M_D

Location of field vane test indicated thus:

Boring Notes

Number of blows of 2.75" hammer falling 18" required to drive spoon or tubing one foot indicated thus: (Graphical)

Sampling spoon or seamless tubing driven by static weight of drill rods and 2.75" hammer indicated thus: H

3½" O.D. "dry" samples taken with piston sampler indicated thus: P

Boring Notes

Natural water contents, given as percent of dry weight are indicated thus: Graphical

Bottom of boring indicated thus:

Refusal of drill rods or casing indicated thus: R

Percent recovery of rock core by diamond bit thus: 71%

DESIGN -	BRIDGE NO.
TRACE - R.W.L.	SURVEY -
CHECK -	PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

SOIL SURVEY

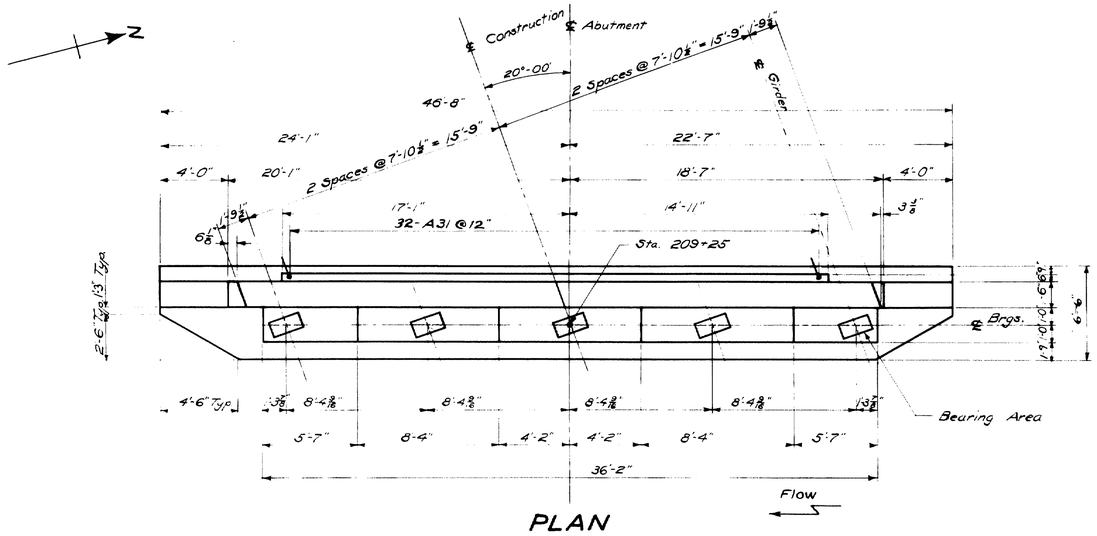
SHEET 4 OF 12 AUGUSTA, MAINE AUGUST, 1959

M-1284

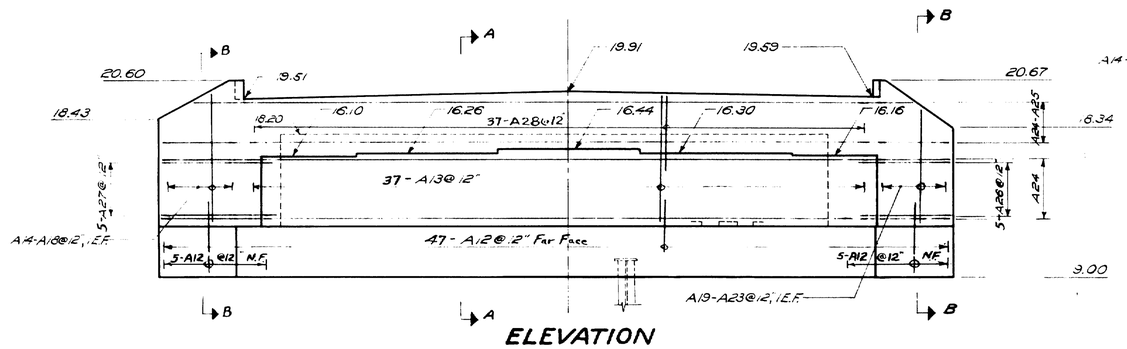
C. H. CO. NO. 378 4-1-57

0 1 2 3 4 5 INCHES

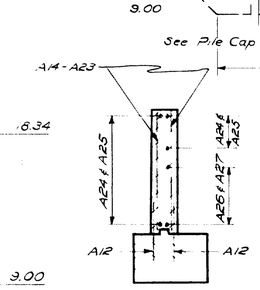
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1 (8)	14	93



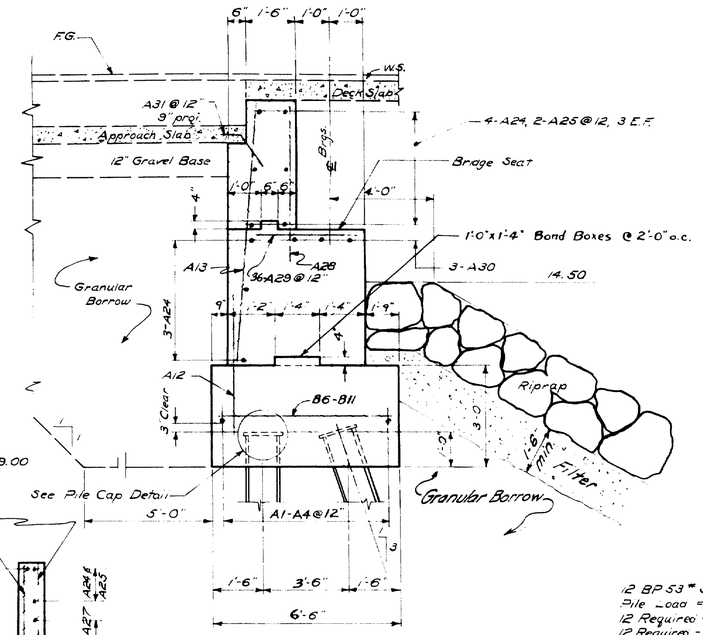
PLAN



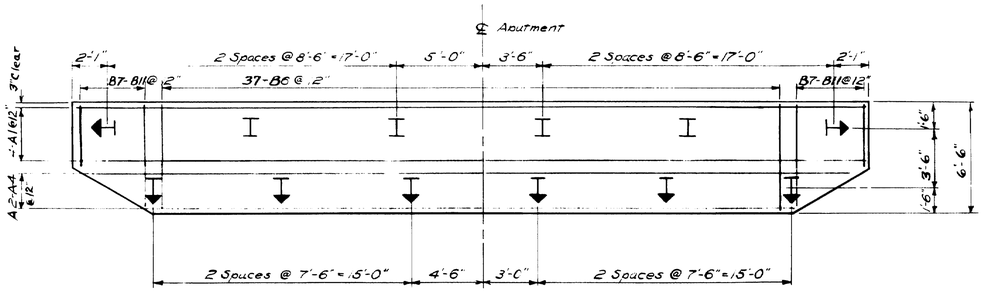
ELEVATION



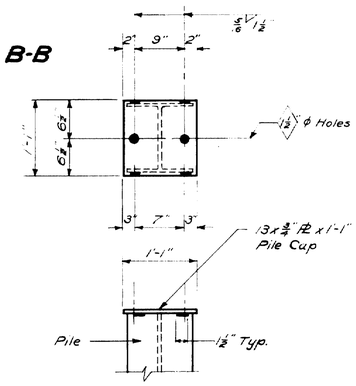
SECTION B-B



SECTION A-A



PILE PLAN



PILE CAP DETAIL

PILE NOTES

12 BP 53 # Steel 'H' Piles
Pile Load = 46 Tons
12 Required - Abut. #1 - Estimated Length = 30'-0"
12 Required - Abut. #2 - Estimated Length = 50'-0"

Pile shown thus ↦ to be battered 3 on 1 in the direction indicated by the arrow.

GENERAL NOTES

Place Reinf. Steel in Bridge Seats to clear anchor bolts. Dress shaded Bearing Areas 1" larger all around than the Masonary Plates to the exact elevations shown.

Cover the backside of ½" open joints and the joint between backwall and superstructure slab with two layers of heavy roofing 10 inches wide, cemented on all contact surfaces with a suitable grade of asphalt cement. Recess the areas to be covered ¼ inch. See Section X-X', sheet #10.

3" minimum cover for reinforcing bars.

DESIGN - R. A. S.
TRACE - H. SIMMONS
CHECK - [illegible]
BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

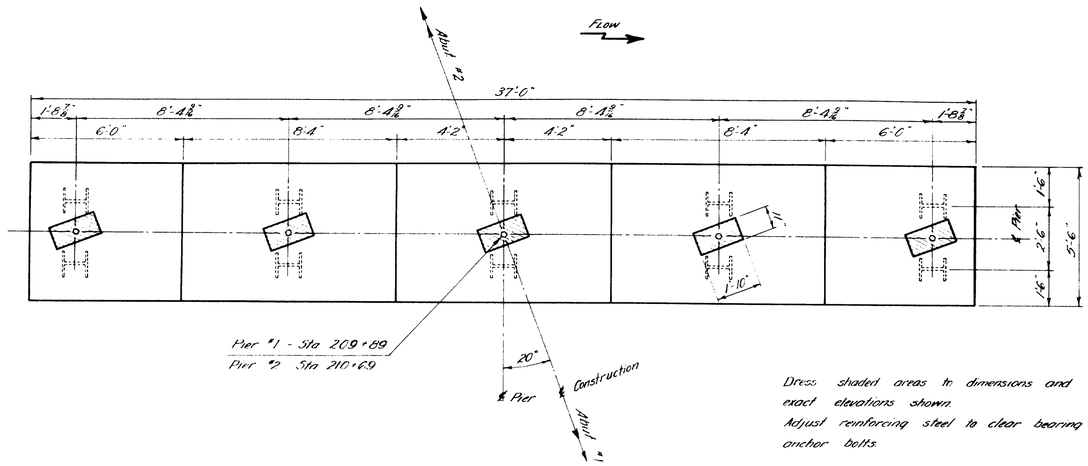
ABUTMENT NO. 1

SHEET 5 OF 12 AUGUSTA, MAINE AUG. 1959

M-1285

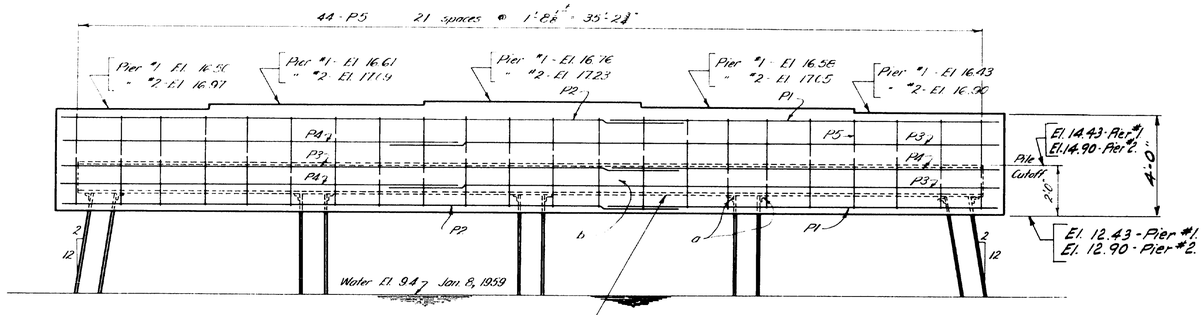
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1 (8)	15	93



Dress shaded areas to dimensions and exact elevations shown.
Adjust reinforcing steel to clear bearing anchor bolts.

~ PLAN ~



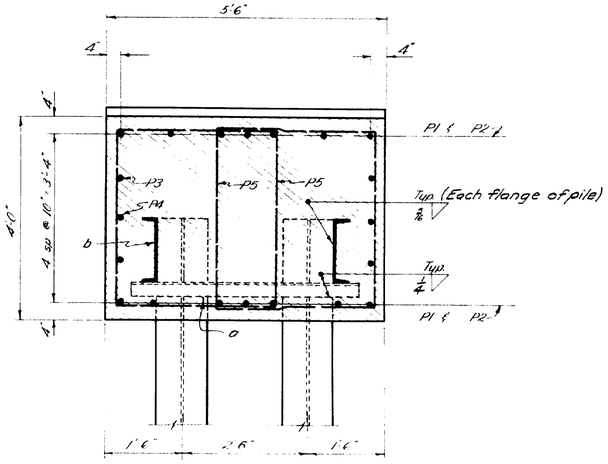
Construction Note -
This channel may be used to support formwork.

~ ELEVATION ~

All piles 12 BP 53# Estimated Length - [Pier #1 - 42'-0" / Pier #2 - 50'-0"]

All piles to be ordered full length.

Maximum normal load per pile = 46 tons.



~ CAP SECTION ~

Stagger splices in longitudinal reinforcement.

STRUCTURAL STEEL

MARK	NO.	SIZE	LENGTH
a	20	∠ 3 × 3 × 3/8	4'-6"
b	4	15 ⊔ 33.9#	35'-6"

DESIGN - SHAILER
TRACE - FOSTER
CHECK - [illegible]

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

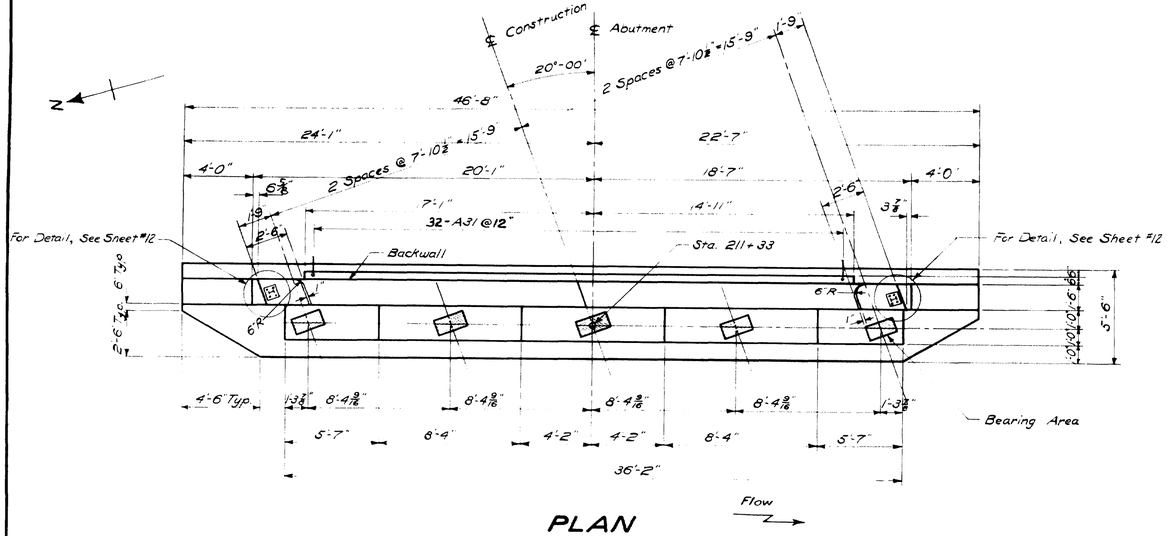
PIERS

SHEET 6 OF 12 AUGUSTA, MAINE AUGUST 1959

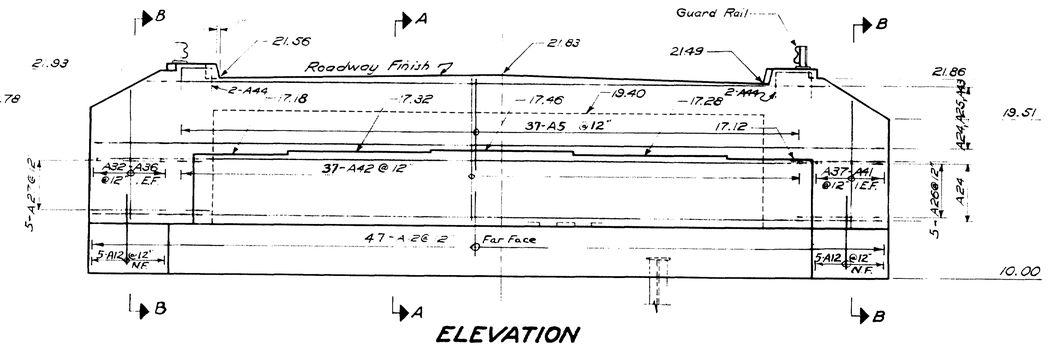
M-1286

0 1 2 3 4 5 INCHES

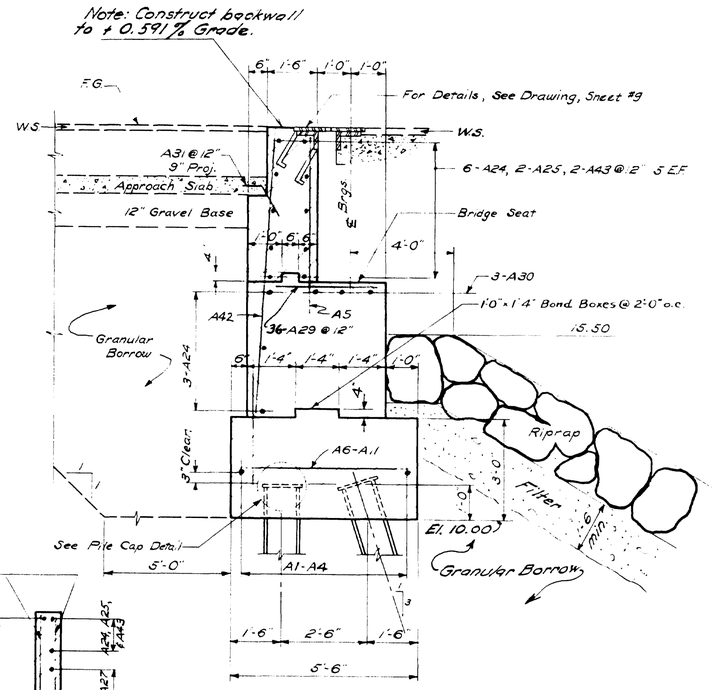
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1 (8)	16	93



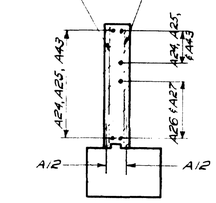
PLAN



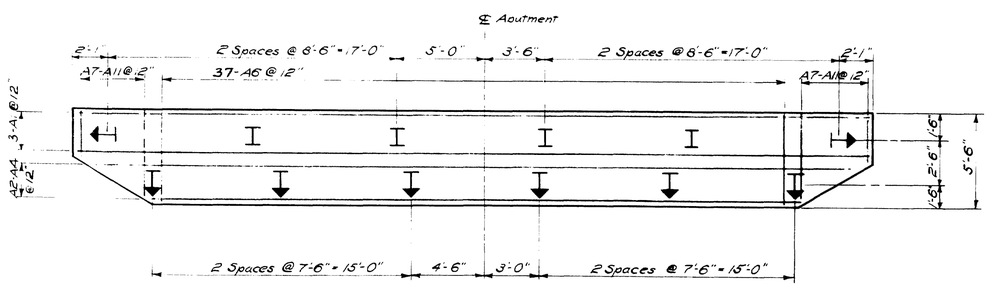
ELEVATION



SECTION A-A



SECTION B-B



PILE PLAN

NOTE:

See General Notes and Pile Notes on Abutment #1 Drawing.
See Pile Cap Detail on Abutment #1 Drawing.

DESIGN - R.A.S.
TRACE - H. SIMMONS
CHECK -
BRIDGE NO
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

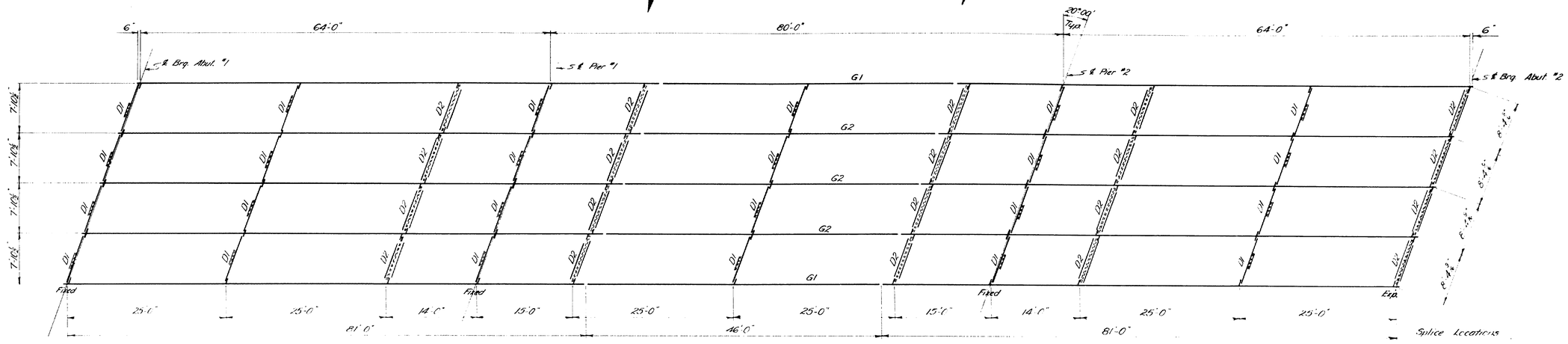
ABUTMENT NO. 2

SHEET 7 OF 12 AUGUSTA, MAINE AUG. 1959

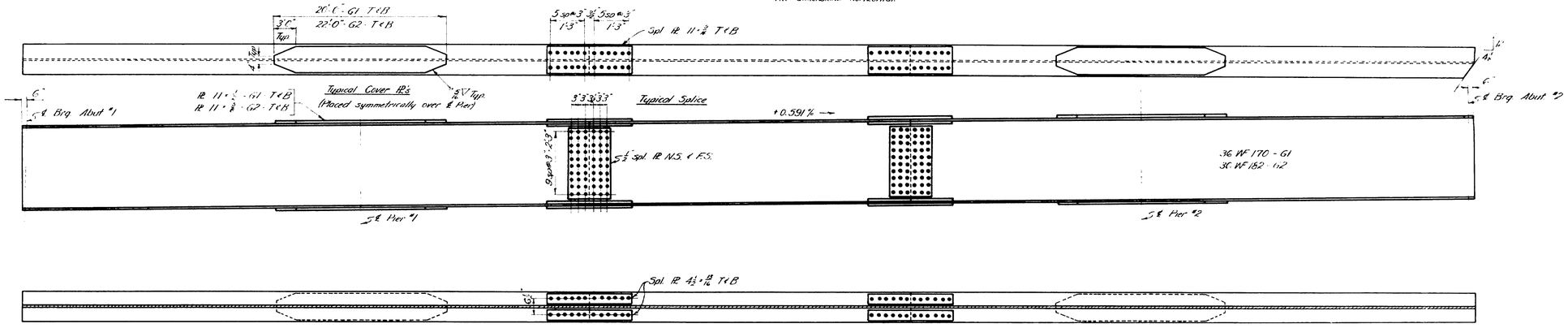
M-1287

C. & G. CO. NO. 378

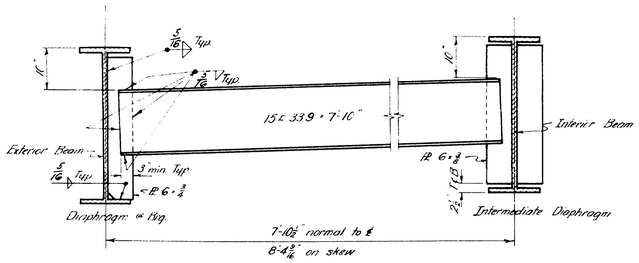
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1(8)	17	93



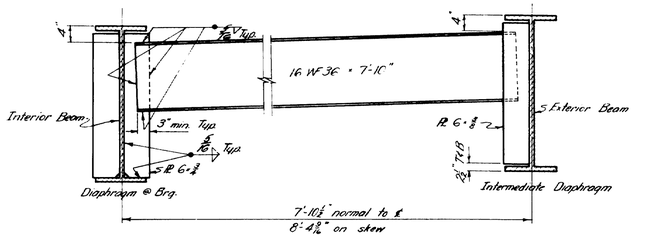
~ ERECTION DIAGRAM ~
All dimensions horizontal.



~ GIRDER DETAILS ~



~ D1 ~
24 required



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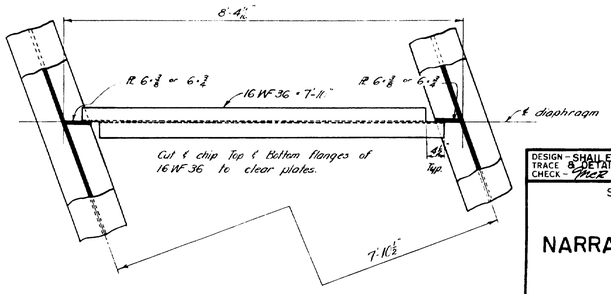


~ PLAN ~

~ D2 ~
20 required

DESIGN - SHALLER TRACE & DETAIL - FOSTER CHECK - PMR	BRIDGE NO. SURVEY - PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

STRUCTURAL STEEL

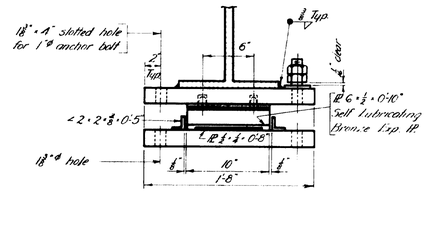
SHEET 8 OF 12 AUGUSTA, MAINE AUGUST 1959

M-1288

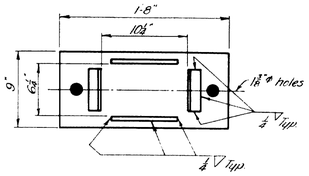
C. H. CO. NO. 378

0 1 2 3 4 5 INCHES

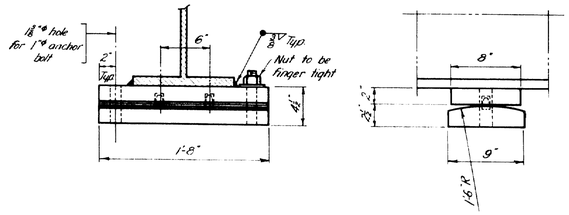
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1 (8)	18	95



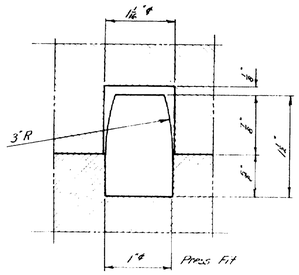
~ EXPANSION BEARING ~
5 required
ABUTMENT No. 2.



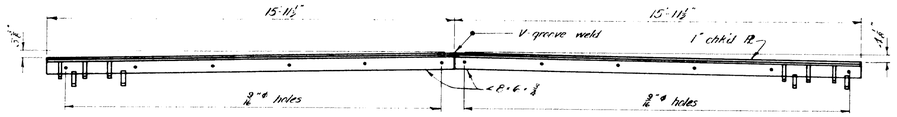
~ PLAN - MASONRY PL ~

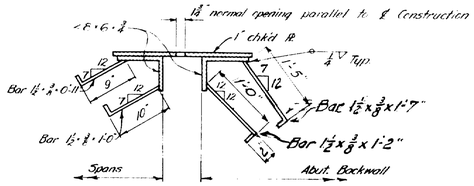


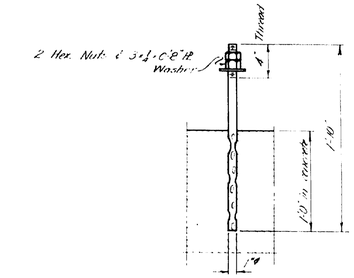
~ FIXED BEARING ~
15 required
ABUT. No. 1. & PIERS No. 1 & 2.



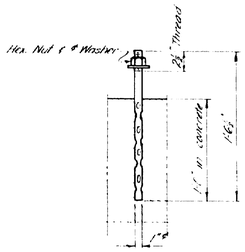
~ PINTLE DETAIL ~



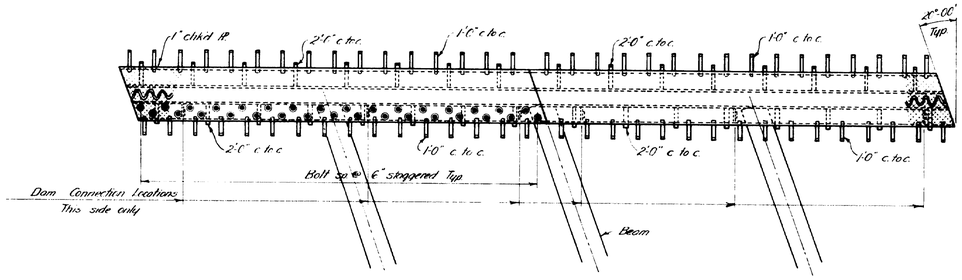




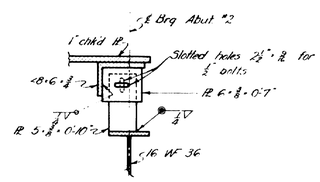
~ EXPANSION ANCHOR BOLT ~
10 required



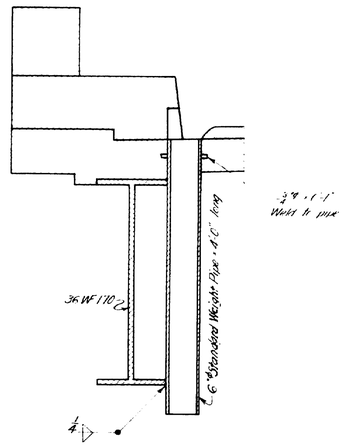
~ FIXED ANCHOR BOLT ~
30 required



~ EXPANSION DAM ~
One required @ Abut. #2



~ DAM CONNECTION ~
6 required



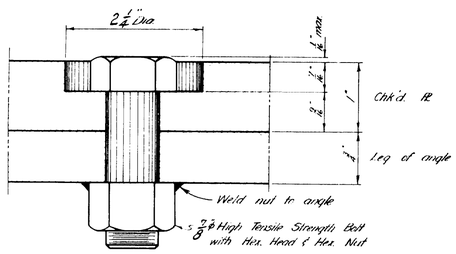
~ DRAIN DETAIL ~
18 required
For further details see Sh. #10

SPECIFICATIONS:

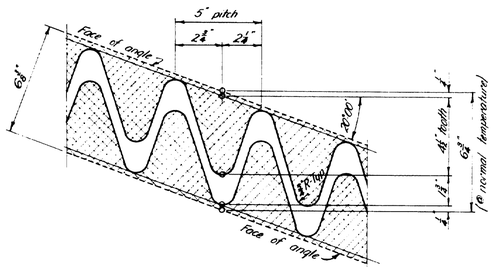
FABRICATION AND ERECTION - State of Maine Standard Specifications, Highways & Bridges, Revision of January 1956
DESIGN AND DETAIL - AASHO 1957
MATERIALS - Beams with welded cover plates and cover plates shall conform to Spec. ASTM Designation A-373. Other steel members shall conform to either Spec. ASTM Designation A-373 or Spec. ASTM Designation A-7.

Field connections may be either ⅞" rivets or ⅞" High Tensile Strength Bolts.

For detail of End Guard Rail Post see Sh. #12
For Structural Steel in Pier Caps see Sh. #6
Loading: H20 S16-44



~ BOLTING DETAIL ~
For 1" chk'd PL



~ CUTTING DETAIL ~
For 1" chk'd PL
Cut from one plate and match mark

NOTE: Furnishing, Erecting and Painting Pipe Drains to be paid for as Structural Steel under Items 702-103 & 702-104 & 702-105

DESIGN - SHAILER	BRIDGE NO.
TRACE & DETAIL - FOSTER	SURVEY -
CHECK -	PLOT

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

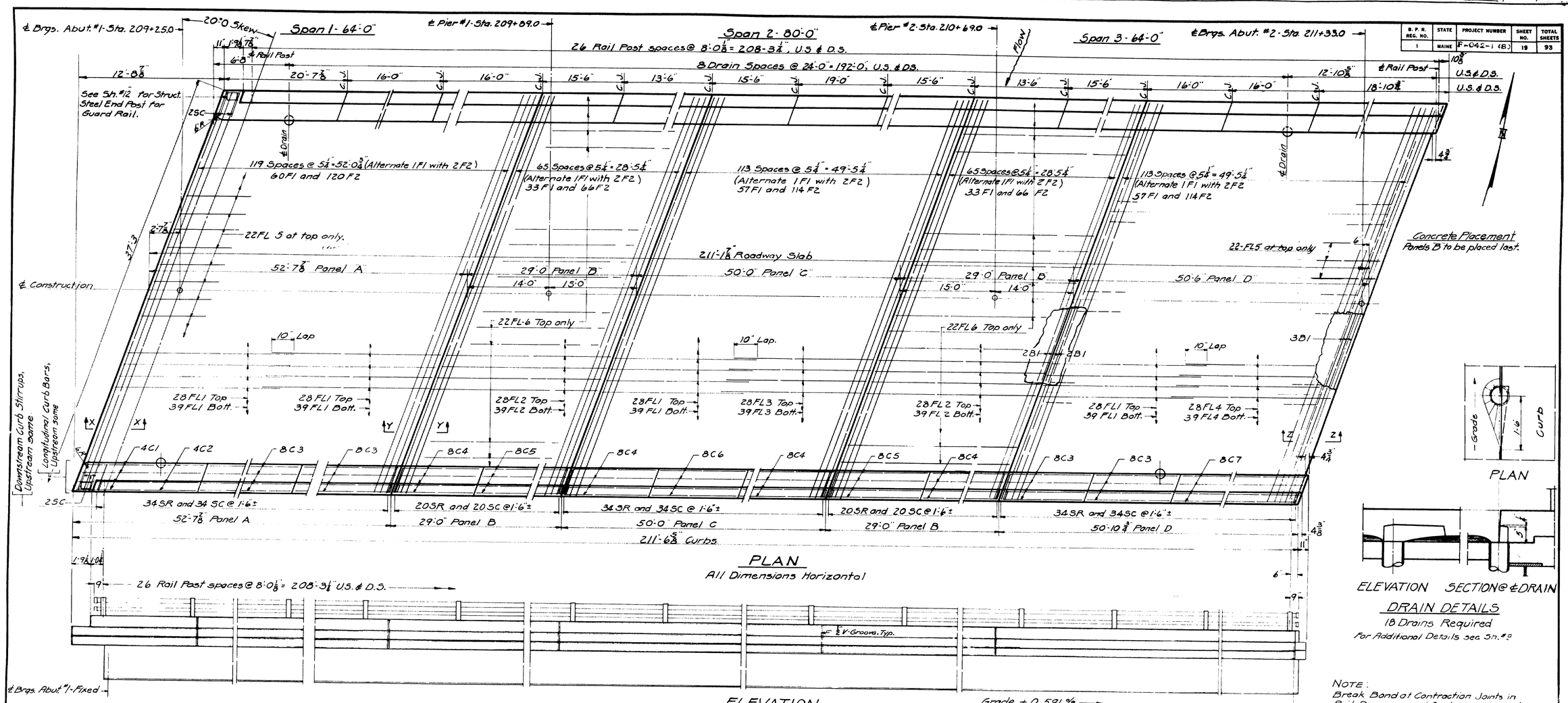
STRUCTURAL STEEL

SHEET 9 OF 12 AUGUSTA, MAINE AUGUST 1959

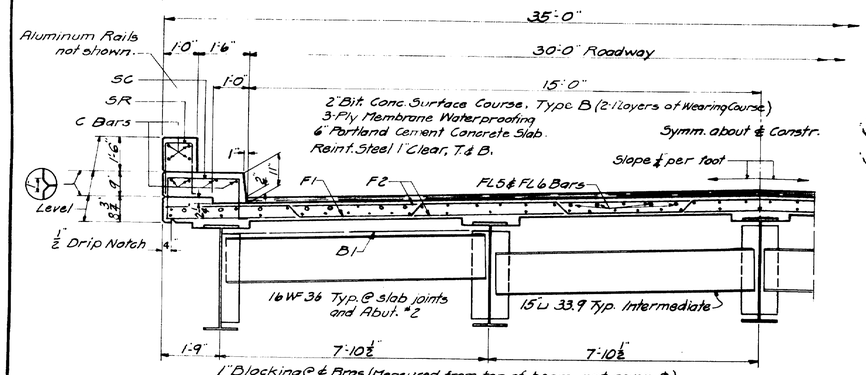
M-1289

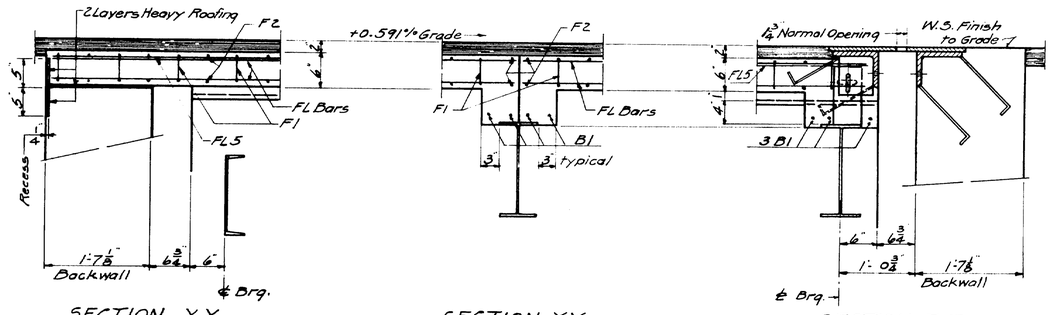
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1 (8)	19	93



NOTE:
Break Bond at Contraction Joints in Rail Parapets and Curbs with a coat of Asphaltic Paint.
Construct 1/2" V-Grooves at joints of Interior, top, and exterior faces of rail parapet & curb. Joints to be plumb.
Place Curb & Rail Parapet reinforcing to clear Drains & Rail Post Anchor Bolts.
All Dimensions are Horizontal.
Concrete for Curbs shall not be placed until concrete for superstructure slab has been in place for 7 days.





DESIGN - SCHALLER - DET. JONES
TRACE - JONES
CHECK - McCR

BRIDGE NO
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

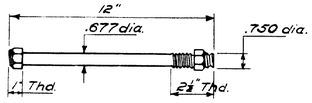
SUPERSTRUCTURE

SHEET 10 OF 12 AUGUSTA, MAINE AUGUST, 1959

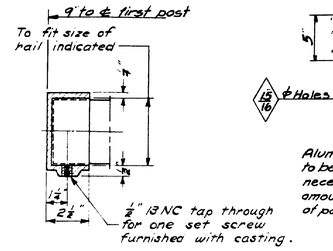
M-1290

0 1 2 3 4 5 INCHES

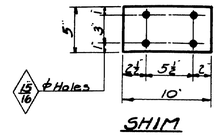
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1 (8)	20	93



ANCHOR BOLT

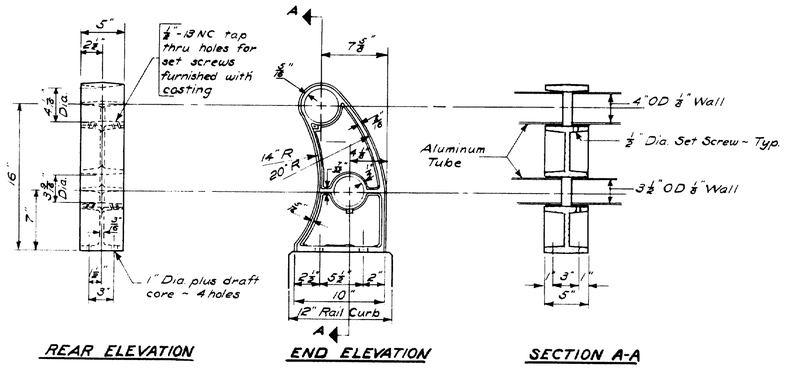


RAIL CAP



SHIM

Aluminum Alloy Shims 5"x½"x0'-10" to be used and/or cut as necessary. Furnish in the amount of 50% of number of posts required.

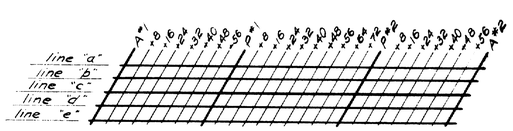


REAR ELEVATION — END ELEVATION — SECTION A-A

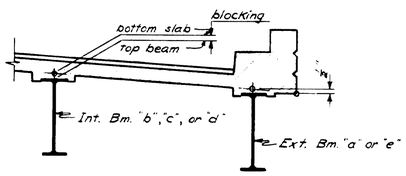
NOTE: Rails shall be connected to the posts on one end only.

POST DETAILS

See Sh. #10 for Rail Post Spacing



KEY



BLOCKING DETAIL

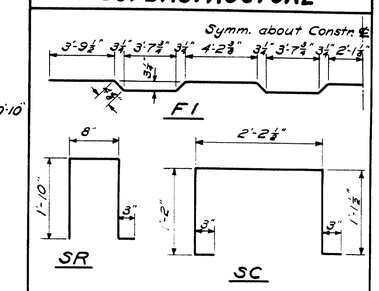
To compensate for dead load deflections, blocking will be determined at the points given in the table by subtracting top of beam elevations from "Bottom Slab Elevations". The top of beam elevations are to be taken in the field before slab forms are constructed

BOTTOM SLAB ELEVATIONS

Point	line "a"	line "b"	line "c"	line "d"	line "e"
A#1	19.63	19.78	19.92	19.74	19.56
+8	19.69	19.84	19.99	19.81	19.62
+16	19.75	19.90	20.05	19.87	19.69
+24	19.81	19.95	20.10	19.92	19.74
+32	19.85	20.00	20.15	19.97	19.79
+40	19.89	20.04	20.19	20.01	19.83
+48	19.93	20.08	20.23	20.04	19.86
+56	19.97	20.11	20.26	20.08	19.90
P#1	20.01	20.15	20.30	20.12	19.94
+8	20.06	20.21	20.36	20.18	20.00
+16	20.12	20.27	20.42	20.24	20.06
+24	20.18	20.33	20.48	20.30	20.12
+32	20.24	20.39	20.54	20.35	20.17
+40	20.29	20.44	20.59	20.41	20.22
+48	20.34	20.48	20.63	20.45	20.27
+56	20.37	20.52	20.67	20.49	20.31
+64	20.41	20.55	20.70	20.52	20.34
+72	20.44	20.59	20.74	20.55	20.37
P#2	20.48	20.63	20.77	20.59	20.41
+8	20.53	20.68	20.83	20.65	20.47
+16	20.59	20.74	20.89	20.71	20.52
+24	20.65	20.80	20.94	20.76	20.58
+32	20.70	20.85	21.00	20.82	20.64
+40	20.75	20.90	21.05	20.87	20.68
+48	20.79	20.94	21.09	20.91	20.73
+56	20.83	20.97	21.12	20.94	20.76
A#2	20.86	21.01	21.15	20.97	20.79

BLOCKING INFORMATION

SUPERSTRUCTURE



Detail ~ H. Jones Check ~ MCR

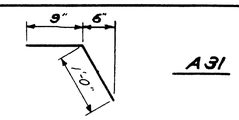
BENT BARS

MARK	SIZE	NO.	LENGTH	REMARKS
F1	#5	240	37'-10"	Slab - Transverse
SR	#4	284	4'-7"	Stirrups - Rail Parapet
SC	#4	288	5'-0"	" Curbs

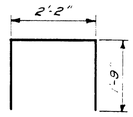
STRAIGHT BARS

F2	#5	480	36'-11"	Slab - Transverse T.&B.
FL1	#4	268	26'-7"	" Long. Panels A,C,&D
FL2	#4	134	28'-8"	" " Panels B
FL3	#4	67	23'-11"	" " Panel C
FL4	#4	67	24'-5"	" " Panel D
FL5	#5	44	6'-0"	Extra Top Bars - off Abut. #1 side " " #2
FL6	#5	44	28'-8"	" " " Panels B
B1	#6	76	7'-10"	@ 16 W.F. 36 Diaphragms.
C1	#4	8	20'-0"	Curbs - Panel A
C2	#4	8	18'-7"	Rail Parapet - Panel A
C3	#4	64	15'-8"	" " ℄ Curb, " A, D
C4	#4	64	15'-2"	" " " " Panels B,C
C5	#4	32	13'-2"	" " " " " B
C6	#4	16	18'-8"	" " " " " C
C7	#4	16	18'-6"	" " " " " D

ABUTMENTS



A31



A44

Detail - C.D Hamilton Check - MCR

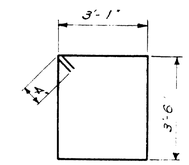
BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION	NO. Abut. #1	NO. Abut. #2
A44	#4	4	5'-8"	Curbs		4
A31	#5	64	1'-9"	App. Slab Seat	32	32

STRAIGHT BARS

A1	#6	7	46'-2"	Footing	4	3
A2		2	44'-6"	"	1	1
A3		2	40'-10"	"	1	1
A4		2	37'-2"	"	1	1
A5	#5	37	5'-3"	Backwall		37
A6	#6	37	5'-0"	Footing		37
A7		2	4'-0"	"		2
A8		2	4'-3"	"		2
A9		2	3'-8"	"		2
A10		2	3'-1"	"		2
A11		2	2'-6"	"		2
A12	#5	114	4'-0"	" Dowels	57	57
A13		37	7'-3"	Wall	37	
A14		2	6'-2"	Wingwalls	2	
A15		2	6'-9"	"	2	
A16		2	7'-2"	"	2	
A17		2	7'-9"	"	2	
A18		2	8'-4"	"	2	
A19		2	8'-5"	"	2	
A20		2	7'-8"	"	2	
A21		2	7'-0"	"	2	
A22		2	6'-4"	"	2	
A23		2	5'-8"	"	2	
A24	#4	16	46'-2"	Wall & Backwall	7	9
A25		4	42'-2"	Backwall	2	2
A26		10	5'-6"	Wingwall	5	5
A27		10	7'-0"	"	5	5
A28	#5	37	4'-6"	Backwall	37	
A29	#4	72	3'-0"	Bridge Seat	36	36
A30	#6	6	35'-8"	"	3	3
A32	#5	2	6'-6"	Wingwall		2
A33		2	7'-1"	"		2
A34		2	7'-7"	"		2
A35		2	8'-2"	"		2
A36		2	8'-8"	"		2
A37		2	8'-7"	"		2
A38		2	8'-0"	"		2
A39		2	7'-5"	"		2
A40		2	6'-10"	"		2
A41		2	6'-3"	"		2
A42	#6	37	8'-3"	Wall		37
A43	#5	2	38'-0"	Backwall		2
B6	#6	37	6'-0"	Footing	37	
B7		2	5'-10"	"	2	
B8		2	5'-3"	"	2	
B9		2	4'-8"	"	2	
B10		2	4'-1"	"	2	
B11		2	3'-6"	"	2	

PIERS



P5

Detail - Shailer Check - MCR

BENT BARS

MARK	SIZE	NO.	LENGTH	REMARKS
P5	#6	88	13'-10"	Stirrups

STRAIGHT BARS

P1	#11	28	16'-0"	Top & Bottom
P2	#11	28	24'-0"	" & "
P3	#6	12	16'-0"	Sides
P4	#6	12	24'-0"	"

APPROACH SLAB

MARK	SIZE	NO.	LENGTH	REMARKS
AS1	#6	236	14'-4"	T & B
AS2	#4	40	31'-5"	T & B

Detail ~ Libby Check ~ MCR

Dimensions to ℄ of bars

DESIGN - R. A. S. - DETAIL AS NOTE
TRACE - H. SIMMONS
CHECK - MCR
BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

REINFORCING STEEL, RAIL, & BLOCKING

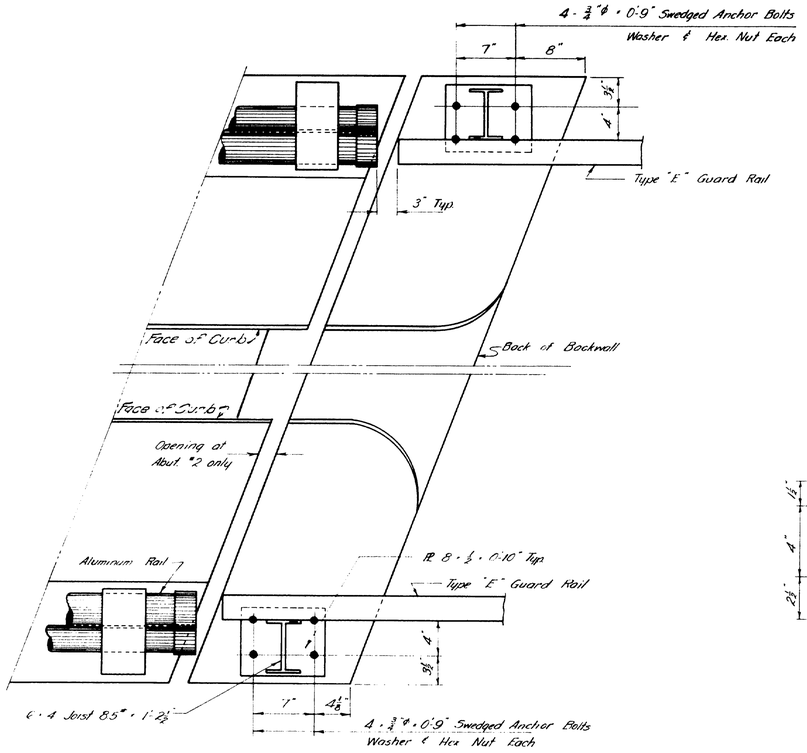
SHEET 11 OF 12 AUGUSTA, MAINE AUG. 1959

M-1291

C. B. CO., NO. 378

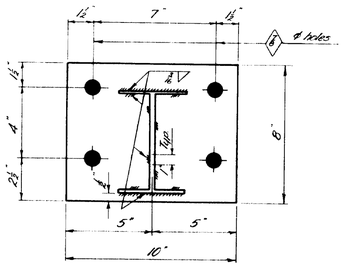
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-042-1(8)	21	95



~ PLAN @ ABUTMENT #2 ~

Abutment #1 Similar except as noted



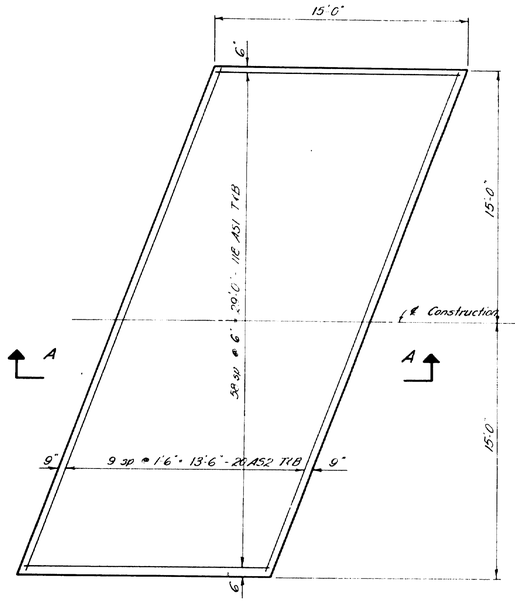
~ BASE PLATE ~

8 · 10 · 1/2 detailed as shown

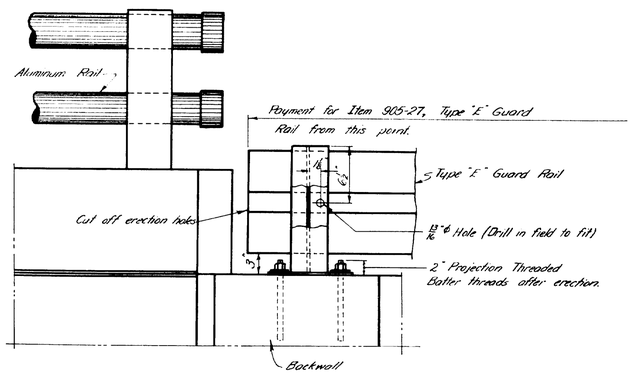
4 required

NOTE:

Payment for 8 · 10 Base Plates, 6 · 4 End Joists, and 3/4"φ · 0'-9" Swedge Bolts to be paid for under Item 702-103, Structural Steel, Fabricated and Delivered, and Item 702-104, Structural Steel, Erection.



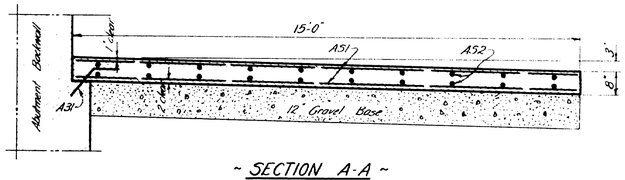
~ PLAN ~



~ ELEVATION ~

~ DETAIL - END GUARD RAIL POST ~

4 required



~ SECTION A-A ~

~ APPROACH SLAB @ ABUT. #2 ~

Abut. #1 Rotated 180°

Note:

Concrete in approach slabs to be paid for under Item 701-40, Portland Cement Concrete, Roadway and Sidewalk Slabs on Steel Bridges.

DESIGN - SHAILER DET. - LIBBY
TRACE - FOSTER
CHECK - MACR

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NARRAMISSIC RIVER BRIDGE

IN THE TOWN OF

ORLAND

HANCOCK COUNTY

END GUARD RAIL POST & APPROACH SLAB

SHEET 12 OF 12 AUGUSTA, MAINE AUGUST 1959

M-1292

C. H. CO. NO. 376

0 1 2 3 4 5 INCHES