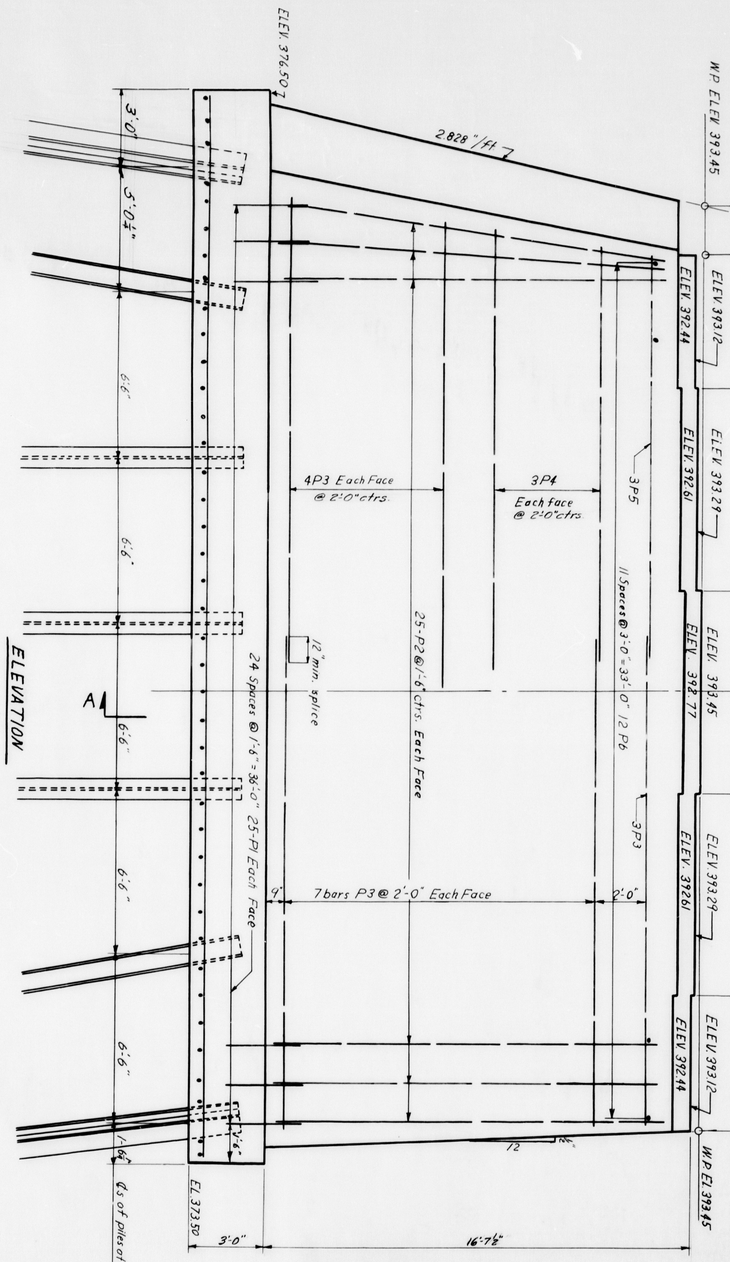
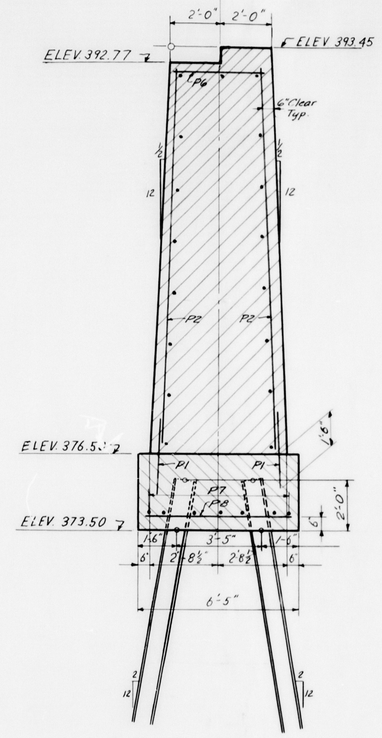
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-025-1(8)	19	140

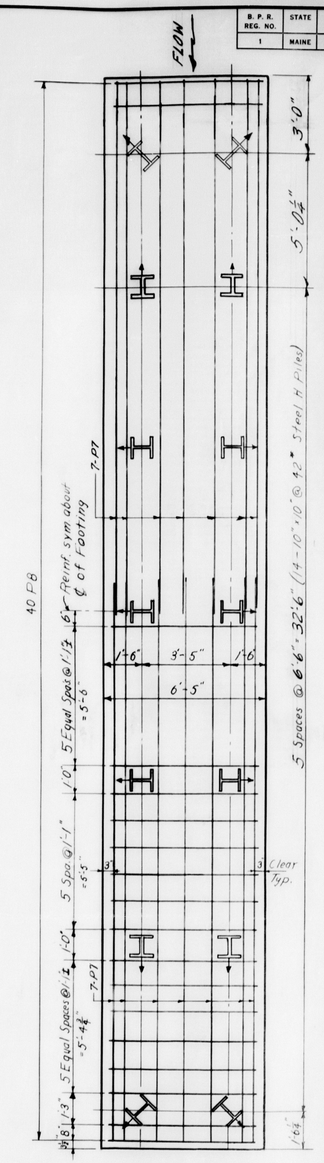


PLAN

Note:- (*) denotes dimensions to working points at ELEV 393.45



SECTION A-A



10"x10"x42" Steel H Piles.
Max allowable pile load = 37 tons
Batter all piles 2" Ft. in direction of arrow shown thus, →
Pier "2" = 14 Piles. Estimated length = 24'-0"
Pile cut-off elevation = 375.50
All piles to be driven to ledge or practical refusal.

PILE PLAN-PIER "2

DESIGN - PORTER, DET. P.J.L.
TRACE - C.K.B.
CHECK - Harris

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

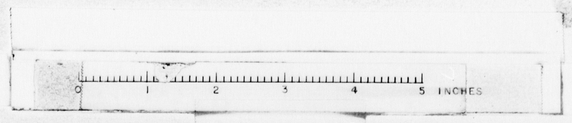
WILSON STREAM BRIDGE
OVER
WILSON STREAM
IN THE TOWN OF
WILTON
FRANKLIN COUNTY

PIER NO. 2

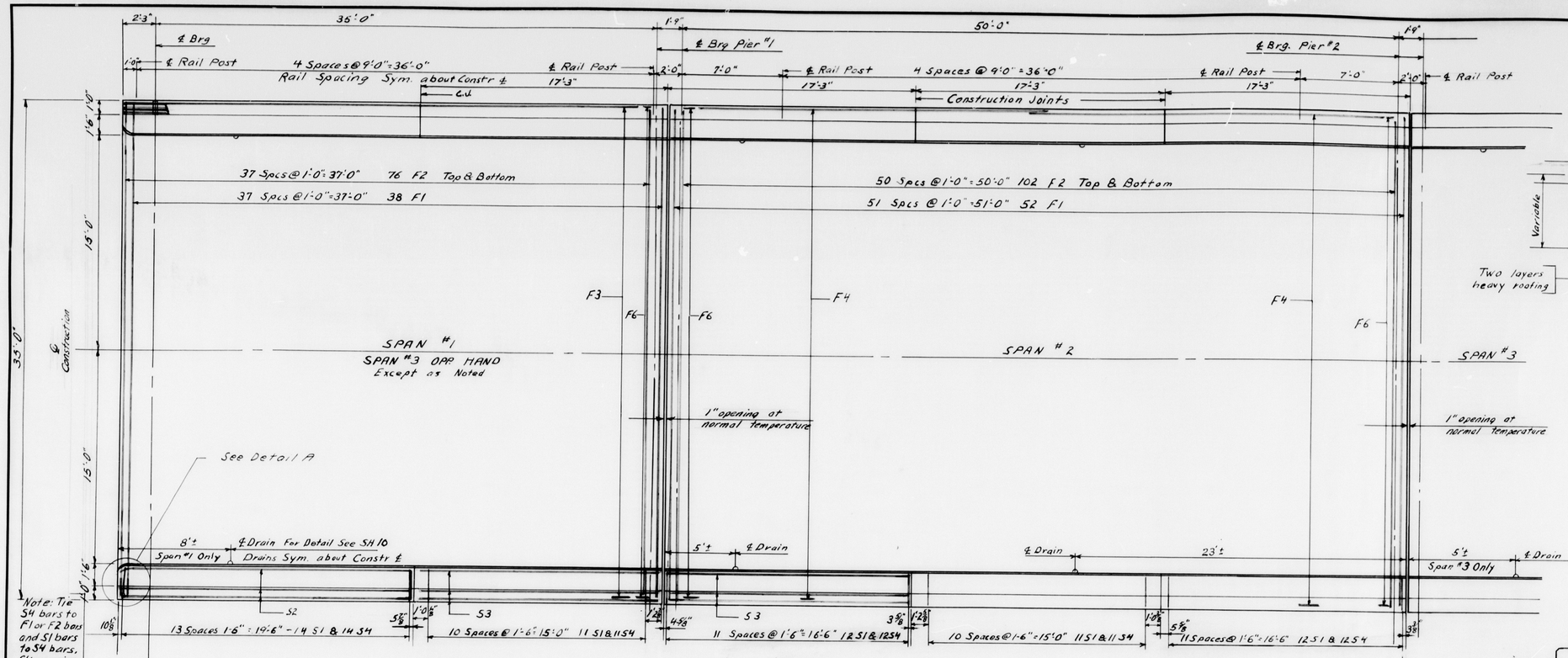
SHEET 7 OF 11 AUGUSTA, MAINE MARCH 1960

M-1649

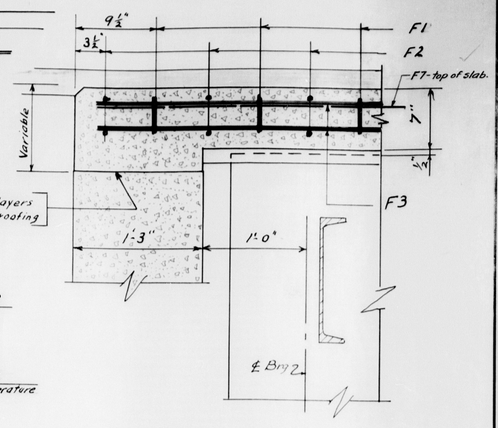
C. B. CO. NO. 379 24166



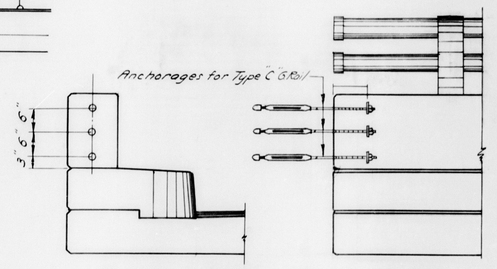
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F025-1(8)	20	160



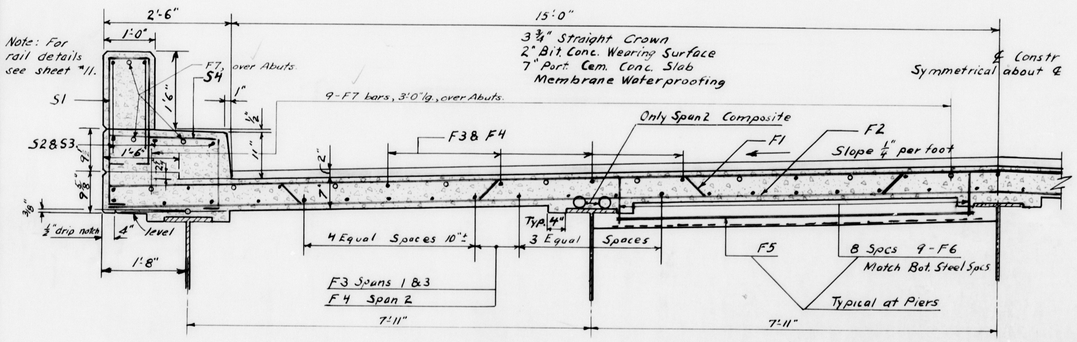
PLAN



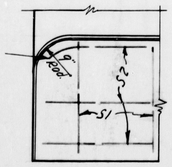
SECTION ABUT. #1
Abut #2 Opp. Hand



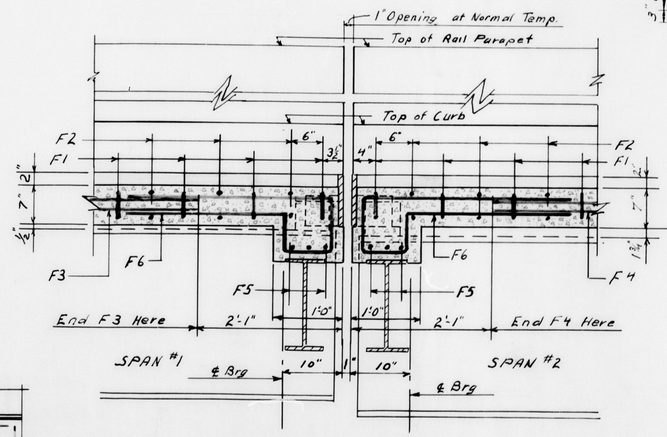
DETAIL - G. RAIL ANCHORAGES



TRANSVERSE SECTION
TYPICAL EXCEPT AS NOTED



DETAIL A



SECTION AT PIER #1
SECTION AT PIER #2 OPP. HAND
Note: See sheet #10 for Expansion Dam Details.

Note: Break bond at construction joints in the Curb and Rail Parapet with a coat of asphalt paint. Construct ½" V grooves on the top and sides.

DESIGN – PORTER DET – LIBBY
TRACE – LIBBY
CHECK – HOWES
BRIDGE NO.
SURVEY –
PLOT –

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

WILSON STREAM BRIDGE
OVER
WILSON STREAM
IN THE TOWN OF
WILTON
FRANKLIN COUNTY
SUPERSTRUCTURE

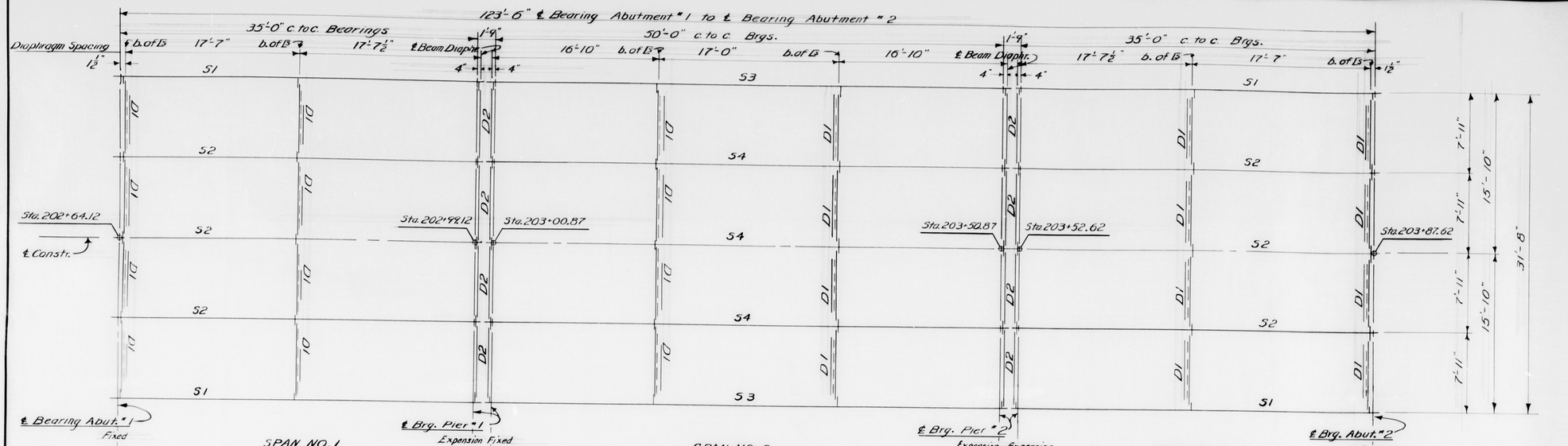
SHEET 8 OF 11 AUGUSTA, MAINE MARCH 1960

M-1650

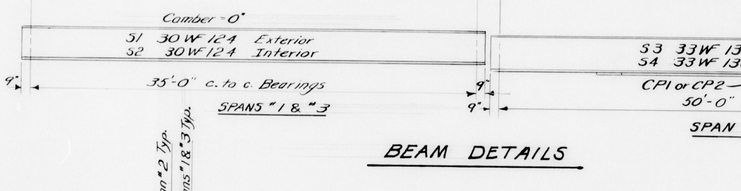
C. P. CO., NO. 379 24188

0 1 2 3 4 5 INCHES

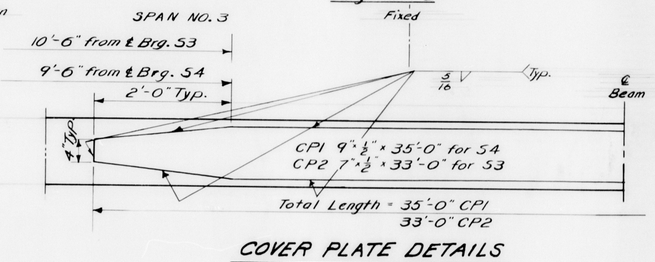
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-025-1(8)	21	160



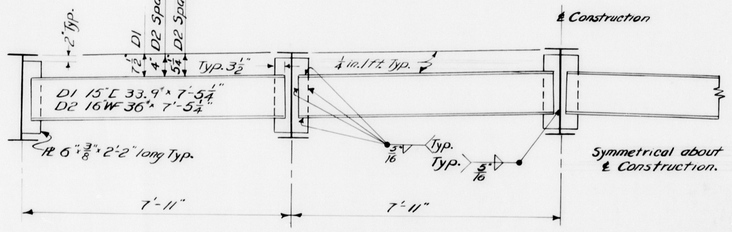
ERECTION DIAGRAM



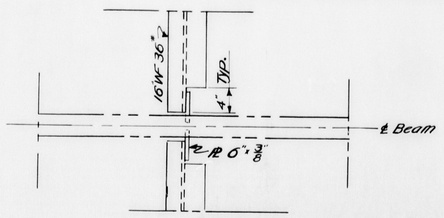
BEAM DETAILS



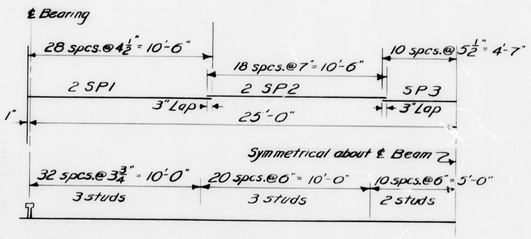
COVER PLATE DETAILS



TYPICAL DIAPHRAGM DETAILS



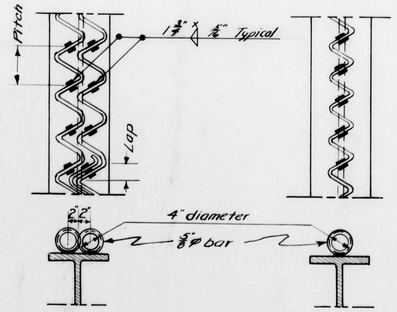
TYPICAL CONNECTION for D2

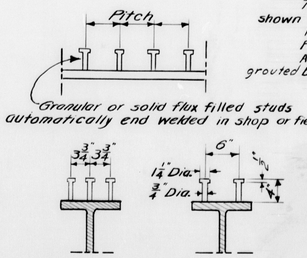


SPIRAL TABLE				
Mark	No.	Spaces	Pitch	Length
SP1	20	28	4½"	10'-6"
SP2	20	18	7"	10'-6"
SP3	5	20	5½"	9'-2"

SPECIFICATIONS

Design and Detail AASHO 1957
Loading H20-S16-44
Fabrication and Erection
State of Maine, State Highway Commission, Standard Specifications, Highways and Bridges, Revision of January, 1956.





SHEAR CONNECTORS

NOTES:
The use of the spirals or studs shown to be optional with the contractor.
1780 studs required.
For Bearing Details see Sh. "10
All anchor bolts to be drilled for, set and grouted before diaphragms are erected.

Stringers & cover plates for Span No. 2 shall be Structural Weldable Steel conforming to the latest revision of the Specification A.S.T.M. Designation A-373.
All other structural steel may conform to A.S.T.M. Designation A-373 or A-7.

DESIGN – PORTER DET. CUTTING
TRACE – CUTTING
CHECK – Morris
BRIDGE NO.
SURVEY –
PLOT – CUTTING

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

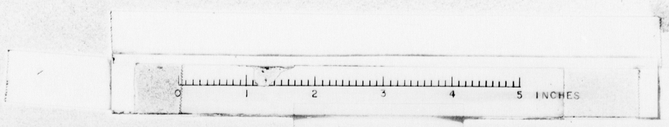
WILSON STREAM BRIDGE
OVER
WILSON STREAM
IN THE TOWN OF
WILTON
FRANKLIN COUNTY

ERECTION DIAGRAM AND DETAILS

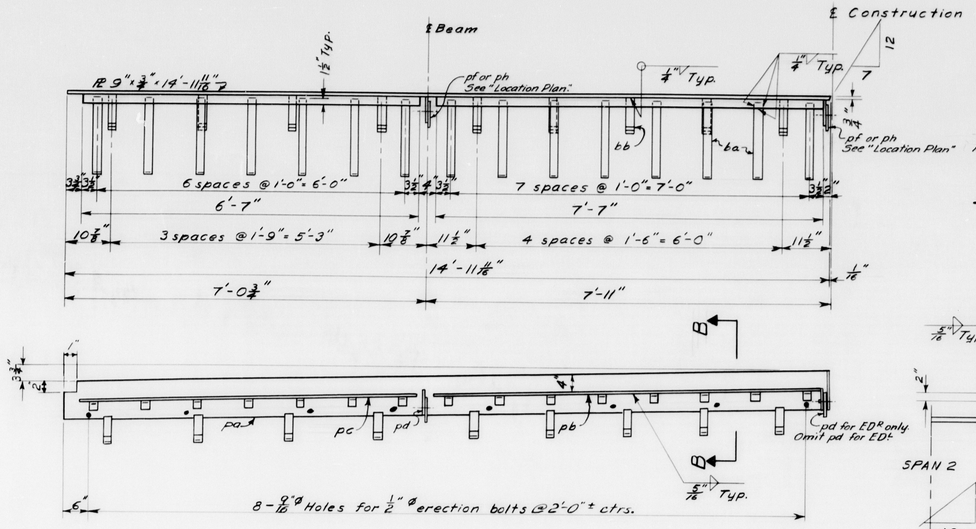
SHEET 9 OF 11 AUGUSTA, MAINE MARCH 1960

M-1651

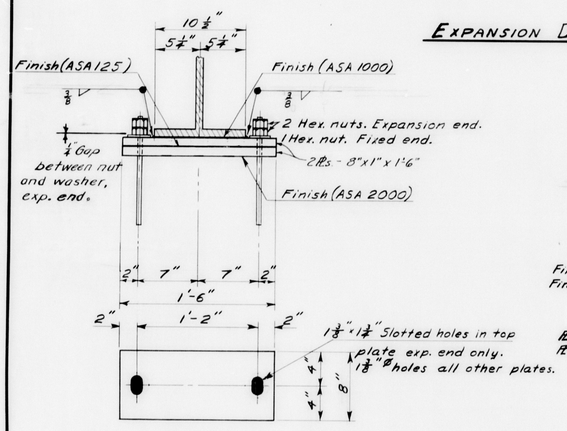
C. B. CO., NO. 379 24186



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-025-1(8)	22	160

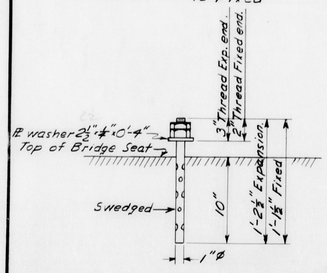


EXPANSION DAMS



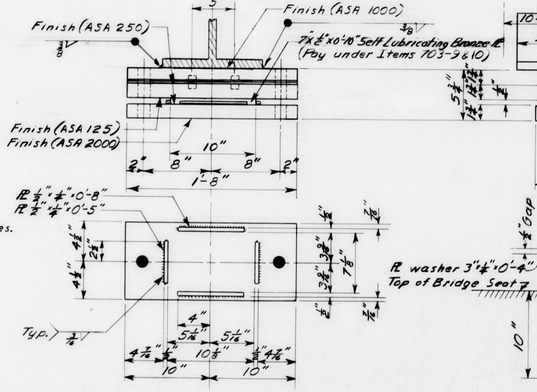
BEARING SPANS #1 & #3

Required: 10 Expansion
10 Fixed



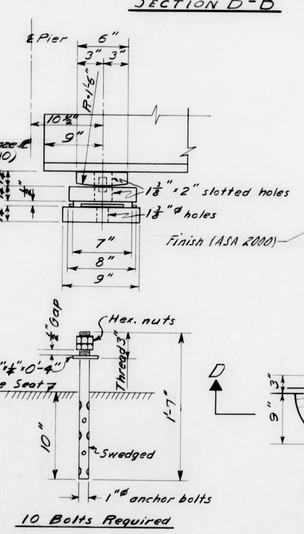
ANCHOR BOLTS SPANS #1 & #3

20 Required each length

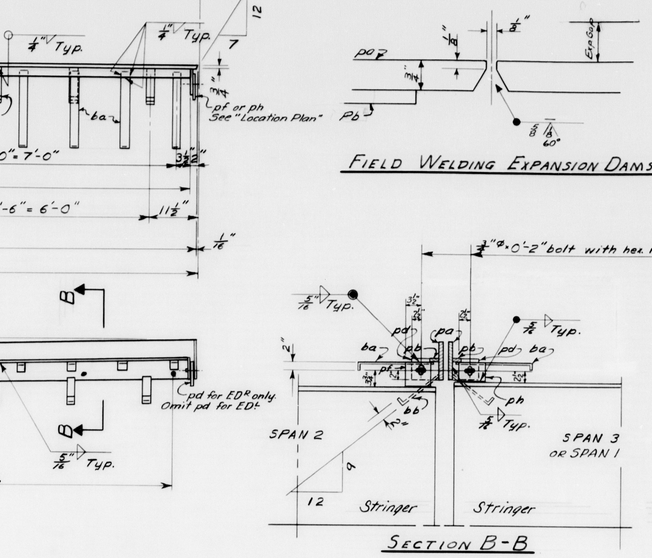


EXPANSION BEARING SPAN #2

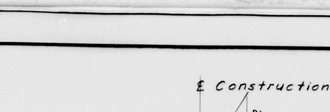
5 Required



10 Bolts Required

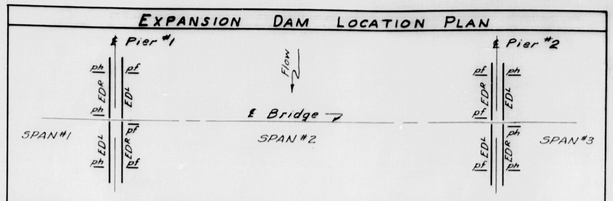


SECTION B-B



FIELD WELDING EXPANSION DAMS

EXPANSION DAM LOCATION PLAN



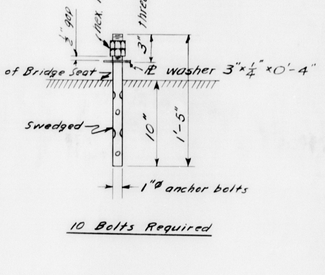
REQUIRED	REQUIRED
Four Expansion Dams - Mark EDR As Shown	Four Expansion Dams - Mark EDL Opposite Hand except as noted

MATERIALS REQUIRED FOR EACH EXPANSION DAM

EDR	1R pa 9"x⅜"x1'-11 11/16"	EDL	1R pa
	1R pb 2"x½"x7'-7"		1R pb
	1R pc 2"x¼"x6'-7"		1R pc
	2R pd 5"x⅜"x0'-6"		1R pd
	2 bolts ¾"ø x 0'-2"		1 bolt ¾"ø x 0'-2"
	15 bars ba 2"x⅜"x1'-8"		15 bars ba
	9 bars bb 2"x⅜"x1'-0"		9 bars bb

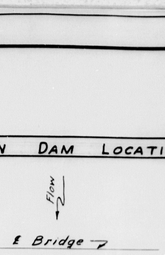
6 Rs. pf 6"x⅜"x0'-6" = 4 for 2-EDR & 2 for 2-EDL

6 Rs. ph 4½"x⅜"x0'-6" = 4 for 2-EDR & 2 for 2-EDL



FIXED BEARING SPAN #2

5 Required



SECTION C-C

SECTION D-D

10 Bolts Required

DRAIN DETAIL

8 Required See Sh. #8 for location. Drains shall be paid for as Structural Steel fabricated delivered and erected under Items 702-103 and 702-104.

TYPICAL PINTLE DETAIL

DESIGN - PORTER DET. CUTTING - BRIDGE NO.
TRACE - R.W.L. CHECK - Harris

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

WILSON STREAM BRIDGE
OVER
WILSON STREAM
IN THE TOWN OF
WILTON
FRANKLIN COUNTY

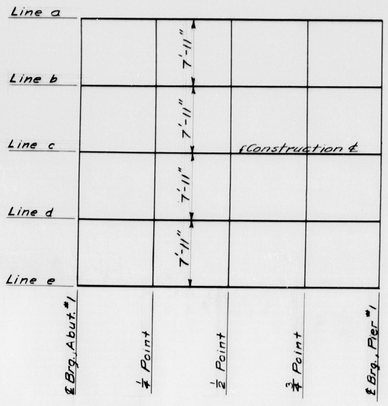
STRUCTURAL STEEL DETAILS

SHEET 10 OF 11 AUGUSTA, MAINE MARCH 1960

M-1652

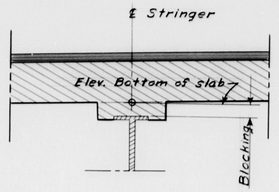
C. H. CO. NO. 379 14188

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-025-1(8)	23	160



BLOCKING DIAGRAM

Span #1 shown. Spans #2 and #3 similar.



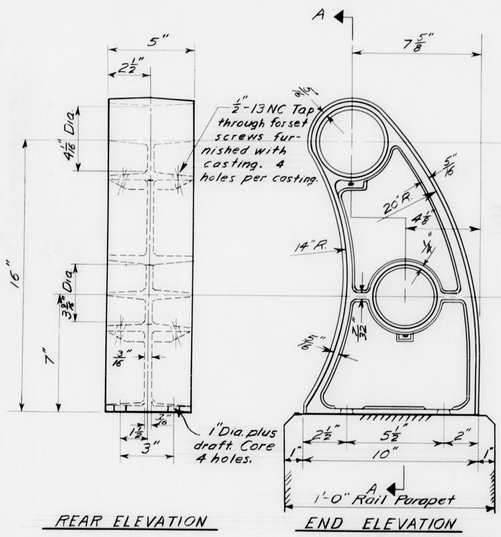
BLOCKING DETAIL

Blocking	½" Block	Variable Blocking			¾" Block	1½" Block	Variable Blocking			¾" Block	½" Block	Variable Blocking			½" Block
Span	℄ Brg.	SPAN NO. 1			℄ Brg.	℄ Brg.	SPAN NO. 2			℄ Brg.	℄ Brg.	SPAN NO. 3			℄ Brg.
Stringer	Abut. #1	¼ Point	½ Point	¾ Point	Pier #1	Pier #1	¼ Point	½ Point	¾ Point	Pier #2	Pier #2	¼ Point	½ Point	¾ Point	Abut #2
Line a	395.60	395.64	395.67	395.69	395.69	395.70	395.76	395.81	395.83	395.83	395.84	395.88	395.91	395.93	395.93
Line b	395.77	395.81	395.84	395.86	395.86	395.87	395.93	395.98	396.00	396.00	396.01	396.05	396.08	396.10	396.10
Line c	395.93	395.97	396.00	396.02	396.02	396.03	396.09	396.14	396.16	396.16	396.17	396.21	396.24	396.26	396.26
Line d	395.77	395.81	395.84	395.86	395.86	395.87	395.93	395.98	396.00	396.00	396.01	396.05	396.08	396.10	396.10
Line e	395.60	395.64	395.67	395.69	395.69	395.70	395.76	395.81	395.83	395.83	395.84	395.88	395.91	395.93	395.93

NOTE: Elevations given are bottom of slab.

BLOCKING SCHEDULE

In order to compensate for dead load deflections as well as for inequalities in rolling steel, the following procedure will be used. Before any slab forms are constructed elevations are to be taken on the top of the beam flanges at the stations indicated and subtracted from bottom of slab elevations. The result is the blocking to be used in formwork.

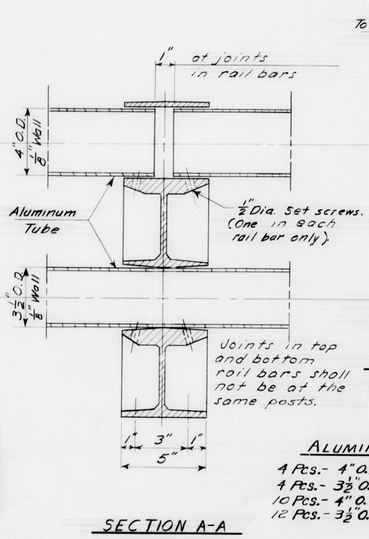


REAR ELEVATION

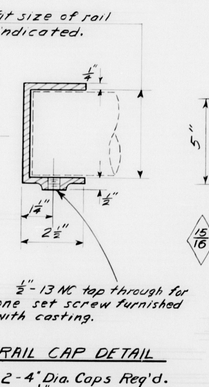
END ELEVATION

POST DETAIL

30 Posts Req'd.



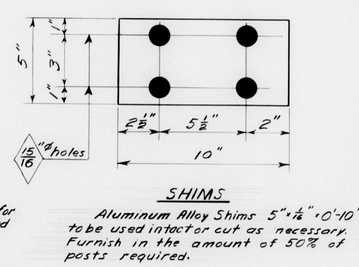
SECTION A-A



½" - 13 NC tap through for one set screw furnished with casting.

RAIL CAP DETAIL

2 - 4" Dia. Caps Req'd.
2 - 3½" Dia. Caps Req'd.

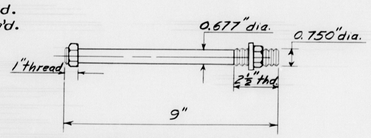


SHIMS

Aluminum Alloy Shims 5" × ¼" × 0'-10" to be used intact or cut as necessary. Furnish in the amount of 50% of posts required.

ALUMINUM TUBE

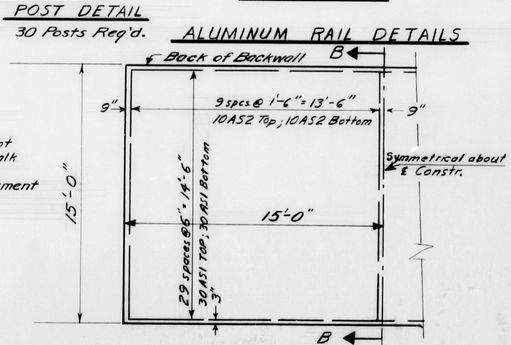
4 Pcs. - 4" O.D. × 18'-11" Reg'd.
4 Pcs. - 3½" O.D. × 9'-11" Reg'd.
10 Pcs. - 4" O.D. × 17'-11" Reg'd.
12 Pcs. - 3½" O.D. × 17'-11" Reg'd.

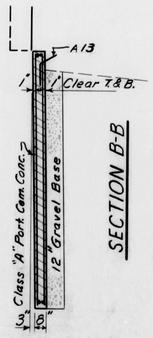


ANCHOR BOLT DETAIL

4 Required for each Rail Post

ALUMINUM RAIL DETAILS



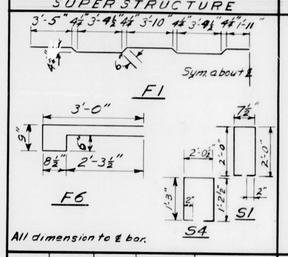


APPROACH SLAB DETAILS

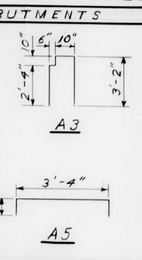
NOTE: Concrete in Approach Slabs to be paid for under Item 701-40 Portland Cement Concrete, Roadway and Sidewalk Slabs on Steel Bridges.
Reinforcing Steel and Cement to be paid for under their respective items.

REINFORCING STEEL SCHEDULE

SUPERSTRUCTURE



ABUTMENTS



PIERS

Mark	Size	No.	Length	Location
BENT BARS				
F1	#6	128	35'-10"	Slab (all spans)
F6	#5	144	7'-3"	Slab thic. (pier)
S1	#4	170	5'-0"	Curbs
S4	#4	170	4'-10"	Curbs

Mark	Size	No.	Length	Location
BENT BARS				
A3	#5	70	7'-8"	Backwalls
A5	#5	46	5'-4"	Breastwall

Mark	Size	No.	Length	Location
BENT BARS				

STRAIGHT BARS				
F2	#6	254	39'-8"	Slab (all spans)
F3	#5	118	35'-10"	Slab spans 1 & 3
F4	#5	118	24'-4"	Slab span 2
F5	#6	48	7'-0"	Slab thick. (pier)
S2	#4	20	20'-6"	Sidewalk
S3	#4	50	17'-0"	Sidewalk
F7	#5	48	3'-0"	At Abuts.

STRAIGHT BARS					
A1	#6	12	36'-6"	Footings	
A2	#6	78	4'-9"	Footings	
A4	#4	32	6'-4"	Wings	
AS1	#6	120	29'-8"	Approach Slab	
A7	#6	8	20'-7"	Backwalls (Spk)	
A8	#4	4	21'-9"	Backwalls (Spk)	
A9	#4	40	5'-6"	Wings	
A10	#6	6	33'-10"	Breastwalls	
A11	#5	46	5'-9"	Breastwalls	
A12	#4	20	18'-9"	Backwalls (Spk)	
A13	#5	30	2'-9"	Approach Slabs	
AS2	#4	80	14'-8"	do do	

STRAIGHT BARS				
P1	#6	100	3'-0"	Footing Alt #2 Pier #1 & 2
P2	#6	100	15'-6"	
P3	#5	50	18'-8"	
P4	#5	12	17'-8"	
P5	#5	6	16'-0"	
P6	#4	24	3'-3"	
P7	#6	28	21'-8"	Footing Pier #2
P8	#6	80	5'-10"	do do

DESIGN - PORTER DET. CUTTING
TRACE - R.W.L.
CHECK - Harris

BRIDGE NO.
SURVEY -
DT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

WILSON STREAM BRIDGE
OVER
WILSON STREAM
IN THE TOWN OF
WILTON
FRANKLIN COUNTY

RAIL; REINFORCING STEEL; BLOCKING; APPROACH SLAB

SHEET 11 OF 11 AUGUSTA, MAINE MARCH 1960

M-1653

C. B. CO., NO. 379 24188