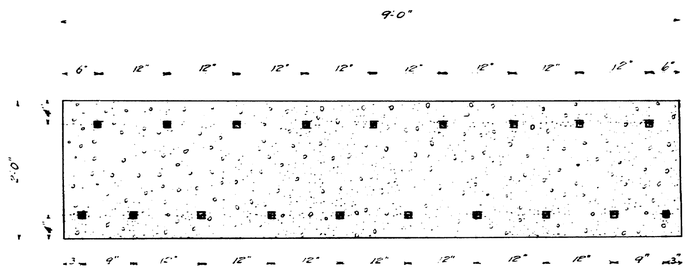


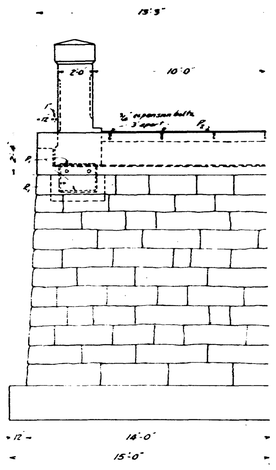
Section thru Footings

38-1" bars 29'-8" long required

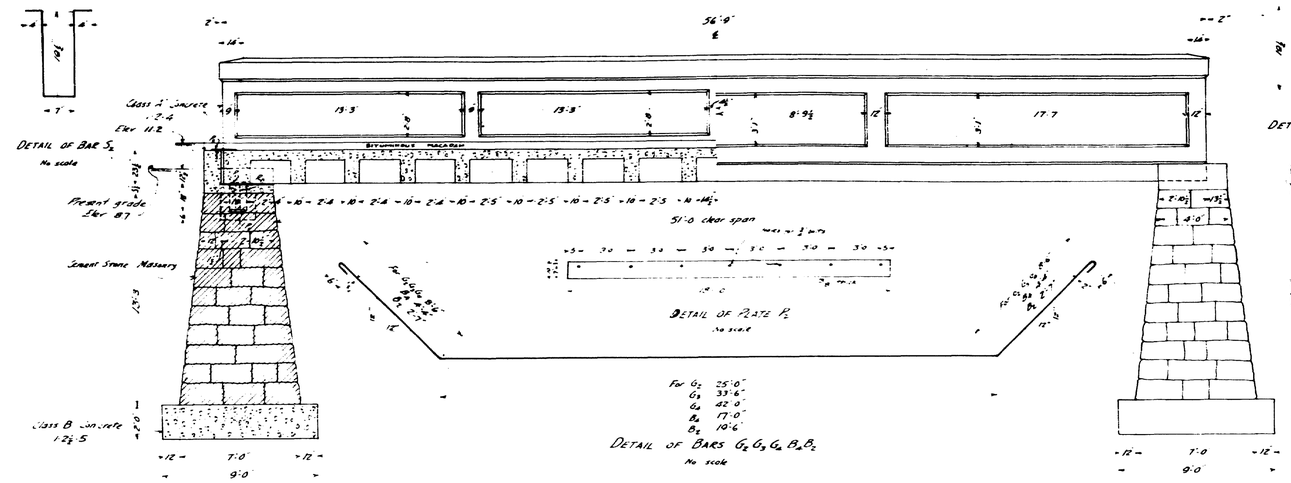
Maine Highway Commission
Bridge over
NEW MEADOWS RIVER
Between
BRUNSWICK AND BATH
CUMBERLAND AND SAGADAHOC CO.
Sept 21, 1917 General Bridge Law

2-147 1965-5

0 1 2 3 4 5 INCHES



HALF END ELEVATION
EXPANSION END



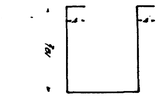
DETAIL OF BAR S_2
No scale

DETAIL OF PLATE P_2
No scale

For G_2 25'-0"
G_3 33'-6"
G_4 42'-0"
B_2 17'-0"
B_3 10'-6"

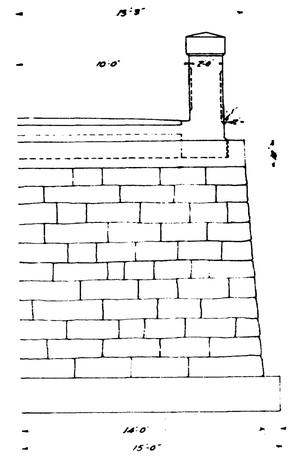
DETAIL OF BARS $G_2 G_3 G_4 B_2 B_3$
No scale

HALF LONGITUDINAL SECTION
EXPANSION END

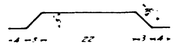


DETAIL OF BARS S_3
No scale

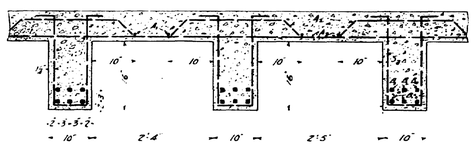
HALF ELEVATION
FIXED END



HALF END ELEVATION
FIXED END



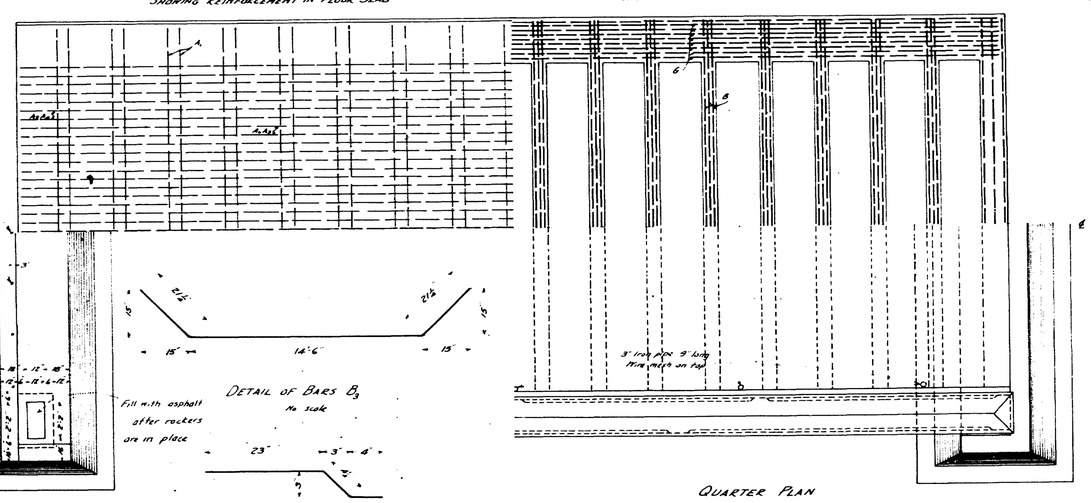
DETAIL OF BAR A_2
No scale



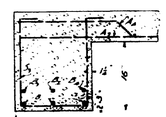
LONGITUDINAL SECTION THRU FLOOR SYSTEM
½"=1'

QUARTER SECTION
SHOWING REINFORCEMENT IN FLOOR SLAB

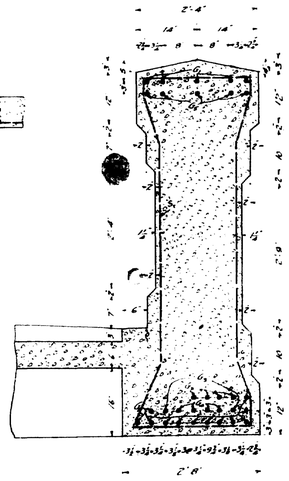
QUARTER SECTION
SHOWING REINFORCEMENT IN GIRDER AND BEAMS



QUARTER PLAN
FIXED END



SECTION THRU END FLOOR BEAM
½"=1'

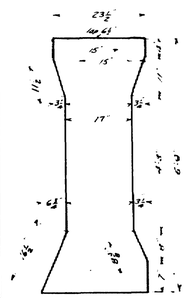


SECTION THRU GIRDER
½"=1'

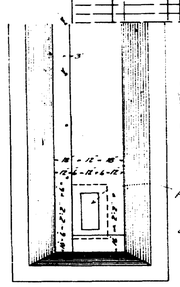
BILL OF MATERIAL

Bars	No.	Size	Length	Weight	Shape	Location
G_1	34	1" ⌀	56'-6"	6531	Straight	Girder (Long'l)
G_2	8	"	43'-5⅝"	1182	Bent	"
G_3	4	"	51'-11⅝"	707	"	"
G_4	8	"	60'-5⅝"	1644	"	"
G_5	10	"	35'-0"	1190	Straight	"
A_1	34	½" ⌀	23'-9"	686	"	Slab (transv.)
A_2	624	"	3'-3½"	1736	Bent	" (over Beams)
A_3	39	"	56'-6"	1373	Straight	" (Long'l)
A_4	78	"	2'-7½"	176	Bent	" (over end Beam)
B_1	54	1" ⌀	24'-1"	4822	Straight	Floor Beam (Long'l)
B_2	18	"	26'-1½"	1599	Bent	"
B_3	18	"	18'-1½"	1109	"	"
B_4	18	"	27'-1½"	1660	"	"
S_1	74	½" ⌀	18'-9"	1179	"	Girder Stirrups
S_2	272	"	3'-0"	694	"	Floor Beam "
S_3	34	"	3'-8"	106	"	"
Total weight of steel bars 26492#						
2 rockers R_1 - cast iron Weight 675#						
4 plates P_1 - steel Height 272#						
1 plate P_2 - steel Height 228#						
7 ¾" expansion bolts, 6' long. 42' 3" iron pipe.						
Class B Concrete (Foundation) 40 c.y.						
Cement Stone Masonry 137 c.y.						
Class A Concrete 100 c.y.						

Reinforcement deformed square bars



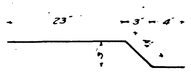
DETAIL OF BAR S_1
No scale



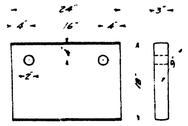
HALF PLAN ABUTMENT
EXPANSION END

DETAIL OF BARS B_3
No scale

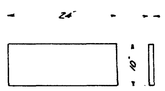
Fill with asphalt after rockers are in place



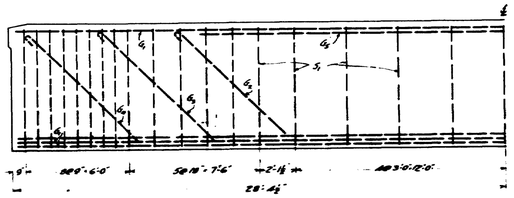
DETAIL OF BARS A_4
No scale



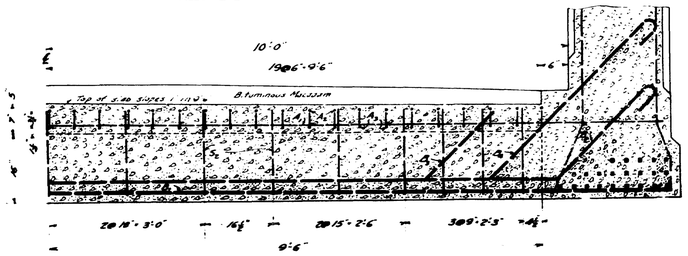
DETAIL OF ROCKER R_1
Cast Iron
½"=1'



DETAIL OF PLATE P_1
Steel - surface adjacent to rocker planed



HALF LONGITUDINAL SECTION OF GIRDER



HALF CROSS SECTION THRU FLOOR BEAM
½"=1'

All bars (except stirrups) bent to radius of 3"

Scale ½"=1' except as noted.

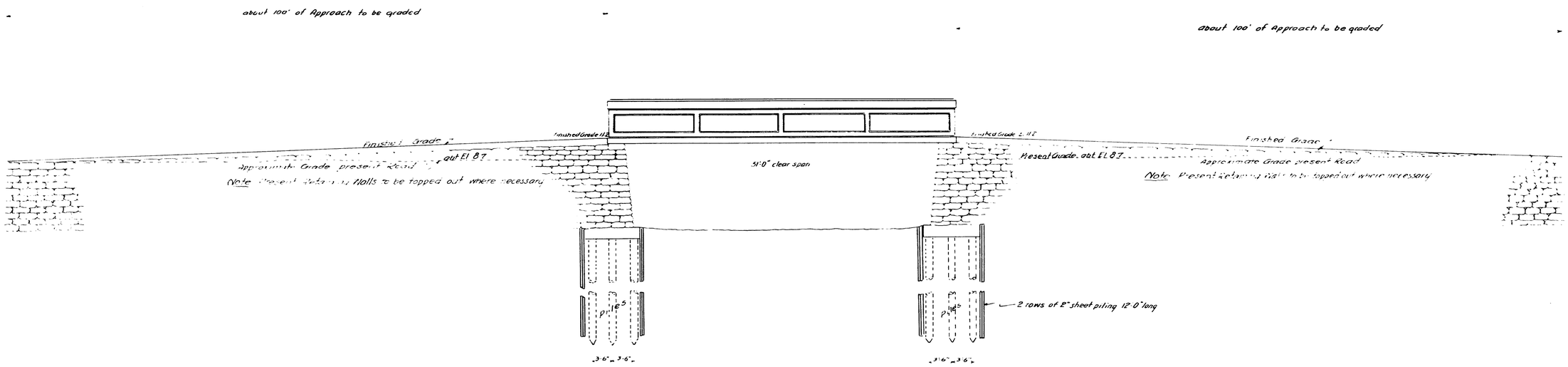
STATE HIGHWAY COMMISSION
BRIDGE ON
STATE HIGHWAY "C"
BETWEEN
BATH, SAGADAHOC CO, MAINE
AND
BRUNSWICK, CUMBERLAND CO, MAINE.
OVER
NEW MEADOWS RIVER
APRIL 12, 1917

Submitted for approval, Apr. 12, 1917 — Bridge Eng.

Approved Aug 22, 1917 — Chief Eng., State Highway Commn.

Approved Aug. 22, 1917 — State Highway Commission.

0 1 2 3 4 5 INCHES



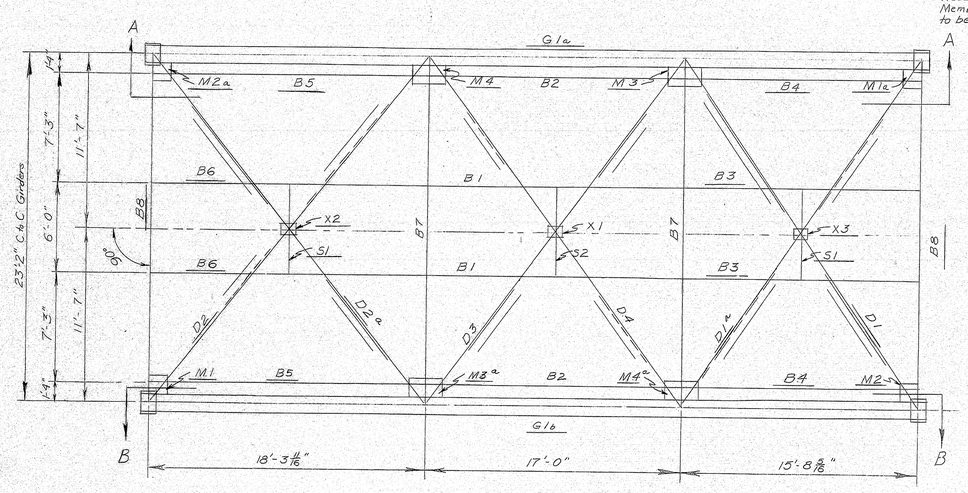
STATE HIGHWAY COMMISSION
BRIDGE ON
STATE HIGHWAY "C"
BETWEEN
BATH, SAGADAHOC Co, MAINE
AND
BRUNSWICK, CUMBERLAND Co, MAINE.
OVER
NEW MEADOWS RIVER
APRIL 12, 1917

2-16 1965

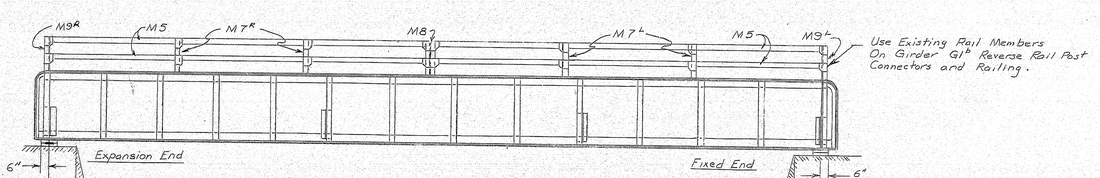
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	2604	1	

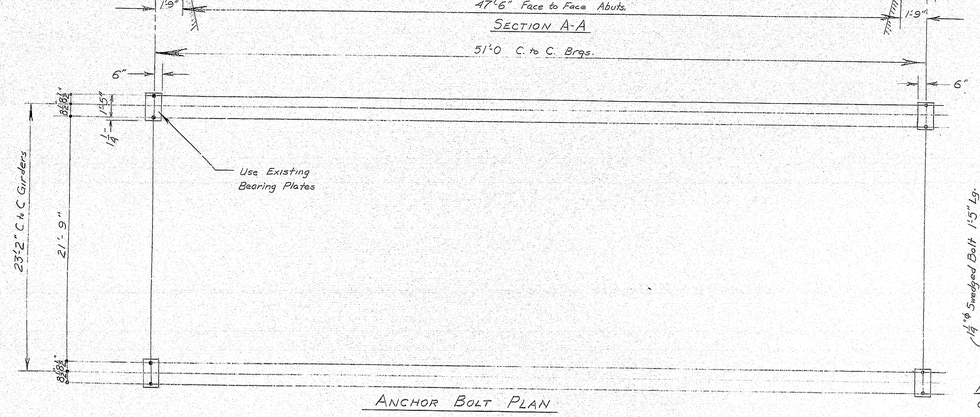
Fabrication Notes:
Members not underlined will not Need any modifications.
Members underlined will need to be modified or new members.



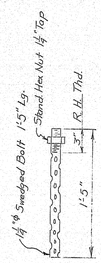
PLAN



SECTION A-A



ANCHOR BOLT PLAN



ANCHOR BOLTS
8 REQUIRED

Erection Notes:
Beams must be erected with marks in Position as shown on this diagram.

BILL OF MATERIALS

QUANTITY	MARK	DESCRIPTION
2	B6	Floor Beams
16	J2	End Angles - Floor Beams
2	G^L	End Angles - Girder
2	H^R	End Angles - Girder
4	EF1	End Filler Plates - B5
1	X2	Center Plate - Sway Bracing
1	X3	Center Plate - Sway Bracing
1	M1	Corner Plate - " "
1	M2	" " " "
1	$M1^a$	" " " "
1	$M2^a$	" " " "
8	—	1 1/4" φ × 1'-5" Swedged Steel Bolt
8	—	1 1/4" φ Tap Hex Nuts
3	—	7/8" φ × 1'-2" Bolt
50	—	7/8" φ × 2" A325 Hex Bolts
150	—	7/8" φ × 2 1/4" " " "
100	—	7/8" φ × 2 1/2" " " "
325	—	7/8" φ × 2 3/4" " " "
50	—	7/8" φ × 3" " " "
50	—	7/8" φ × 3 1/2" " " "
75	—	7/8" φ × 3 3/4" " " "
25	—	7/8" φ × 4" " " "
716	—	7/8" φ A325 Hex Nuts
716	—	7/8" φ A325 Flat Washers

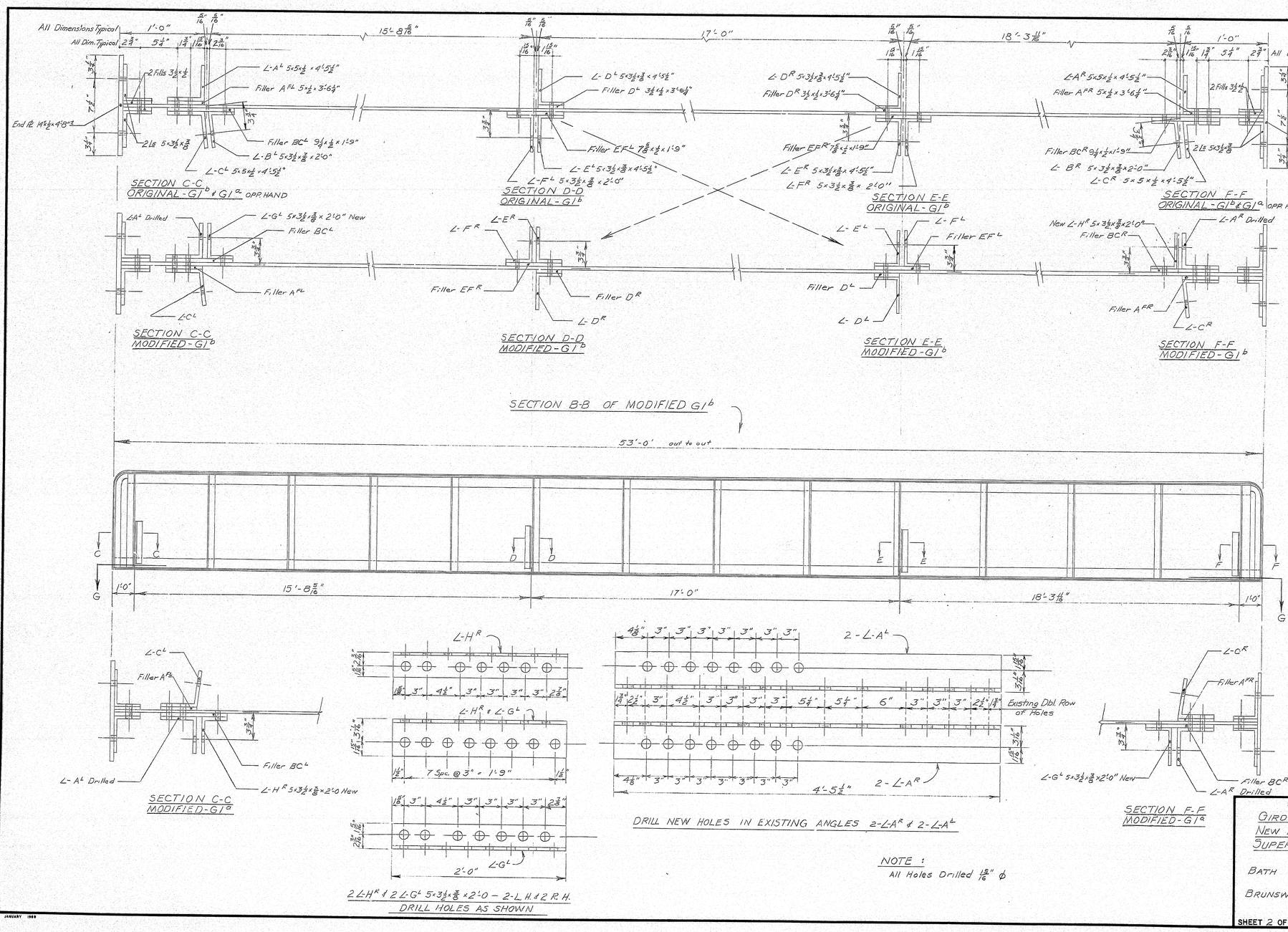
PLANS		BY	DATE
	DESIGN - DETAILED	E.N. Bolder	1/73
	CHECKED	DOBLE	3/73
	REVISIONS		
	FIELD CHANGES		

STATE HIGHWAY COMMISSION
ERECTION DIAGRAM
NEW MEADOWS RIVER BRIDGE
SUPERSTRUCTURE REPLACEMENT
BETWEEN
BATH SAGADAHOC COUNTY
AND
BRUNSWICK CUMBERLAND COUNTY

SHEET 1 OF 6 AUGUSTA, MAINE JANUARY, 1973

137:36

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	2604	2	



NOTE :
All Holes Drilled 15/16" ϕ

PLANS	BY	DATE
DESIGN - DETAILED	F.N. Dobler	1/73
CHECKED	DOBLE	3/73
REVISIONS		
FIELD CHANGES		

STATE HIGHWAY COMMISSION

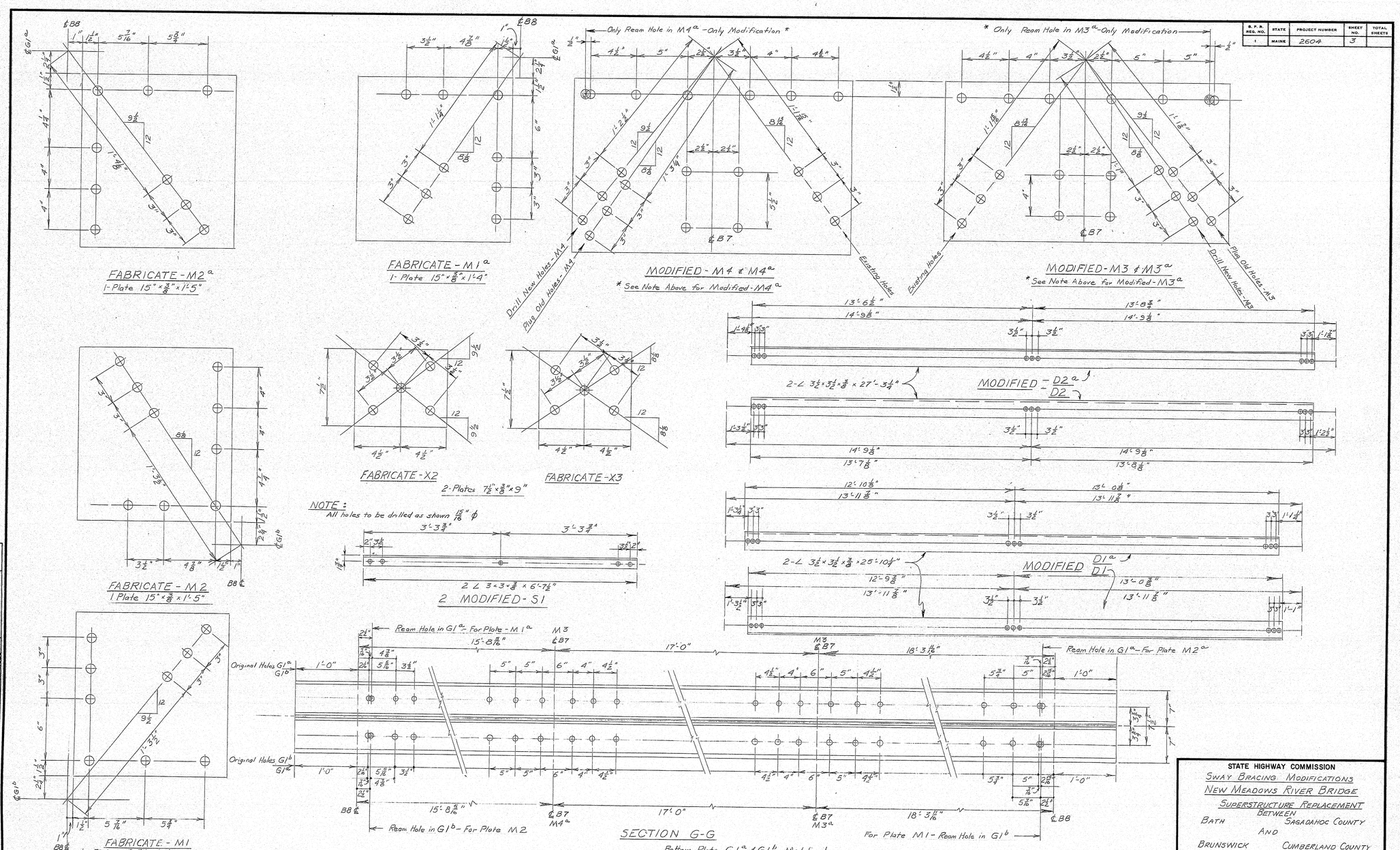
GIRDER MODIFICATIONS
NEW MEADOWS RIVER BRIDGE
SUPERSTRUCTURE REPLACEMENT

BETWEEN
BATH SAGADAHOC COUNTY
AND
BRUNSWICK CUMBERLAND COUNTY

SHEET 2 OF 6 AUGUSTA, MAINE JANUARY, 1973

137:37

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	2604	3	



PLANS		BY	DATE
	DESIGN - DETAILED	E.N. Bolster	1/73
	CHECKED	DOBLE	3/73
	REVISIONS		
	FIELD CHANGES		

STATE HIGHWAY COMMISSION

SWAY BRACING MODIFICATIONS

NEW MEADOWS RIVER BRIDGE

SUPERSTRUCTURE REPLACEMENT

BETWEEN

BATH SAGADAHOC COUNTY

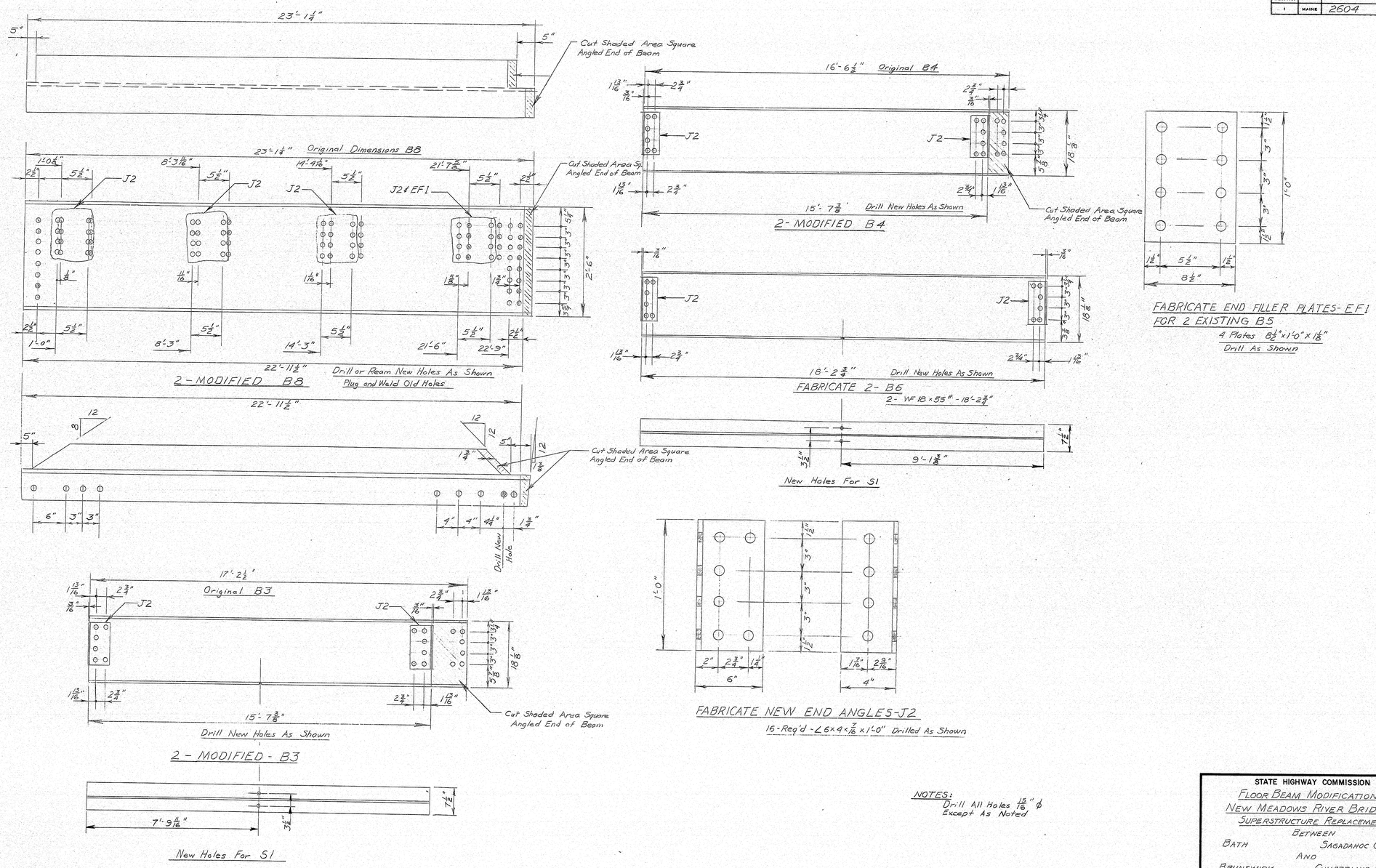
AND

BRUNSWICK CUMBERLAND COUNTY

SHEET 3 OF 6 AUGUSTA, MAINE JANUARY, 1973

137-38

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	2604	4	



NOTES:
Drill All Holes 15/16" ϕ
Except As Noted

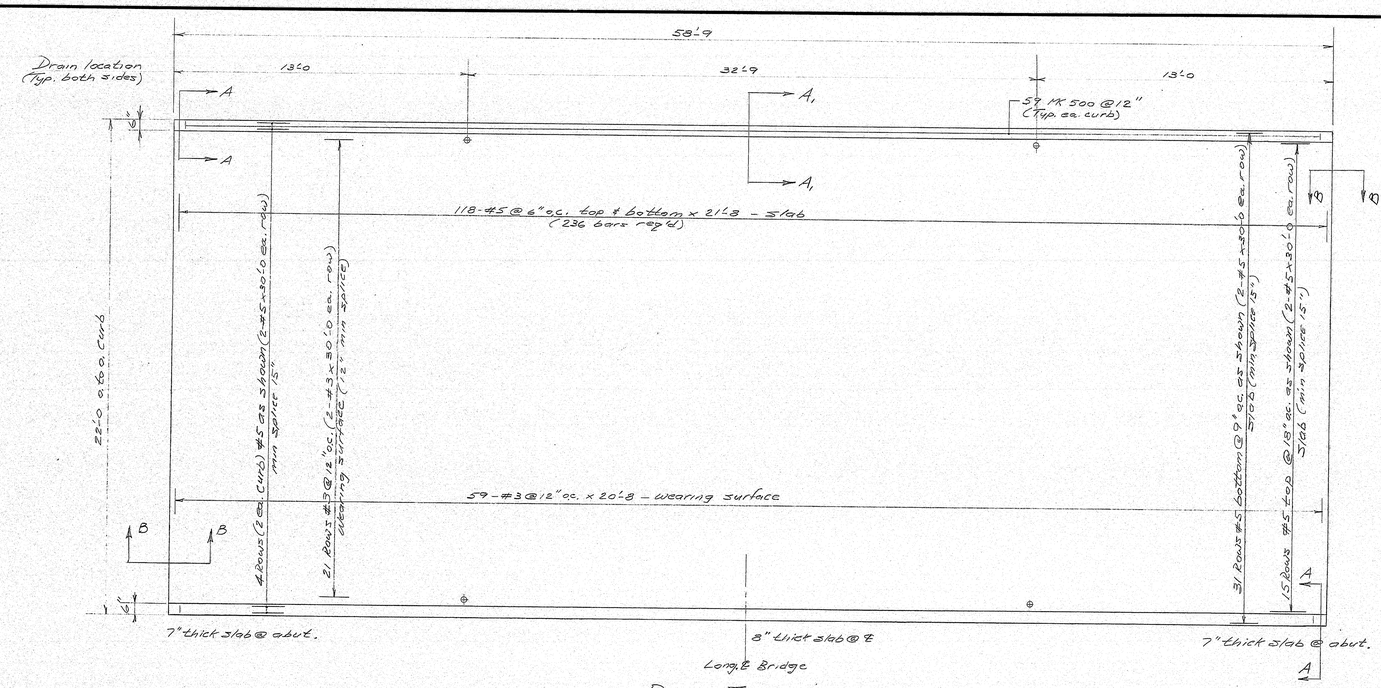
PLANS		BY	DATE
	DESIGN-DETAILED	E.N. Baldwin	1/73
	CHECKED	DOGLE	3/73
	REVISIONS		
	FIELD CHANGES		

STATE HIGHWAY COMMISSION
FLOOR BEAM MODIFICATIONS
NEW MEADOWS RIVER BRIDGE
SUPERSTRUCTURE REPLACEMENT
BETWEEN
BATH SAGADAHOC COUNTY
AND
BRUNSWICK CUMBERLAND COUNTY

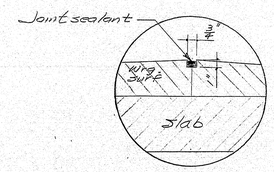
SHEET 4 OF 6 AUGUSTA, MAINE JANUARY, 1973

137-39

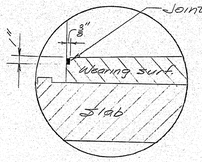
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	2604	5	6



PLAN - SUPERSTRUCTURE



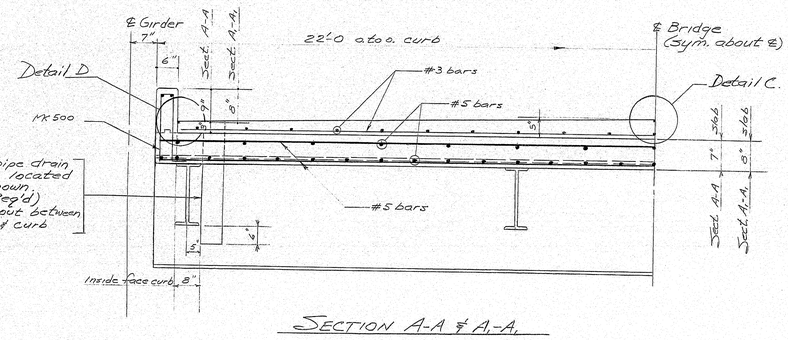
Detail C



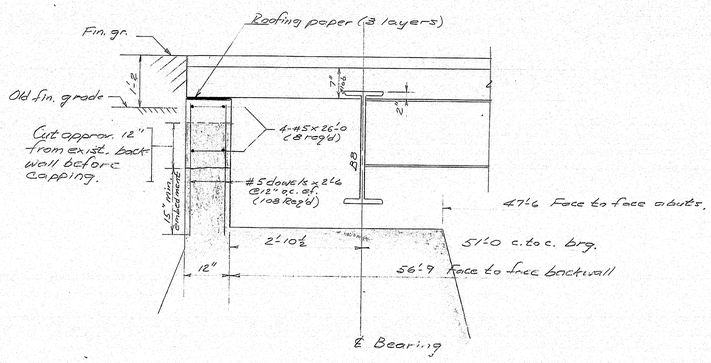
Detail D

Notes:

1. Resteel to be ASTM A615, Grade 60.
2. Bar clearance to be 2" unless otherwise shown.
3. Concrete to be class A.
4. Chamfer exposed edges ½".
5. Approaches to be raised approx. 14 inches to new finish grade.



SECTION A-A & A₁-A₁



SECTION B-B
(See detail - sht. 6 for post details)

PLANS		BY	DATE
	DESIGN - DETAILED	D. Crandlemire	6/73
	CHECKED		
	REVISIONS		
	FIELD CHANGES		

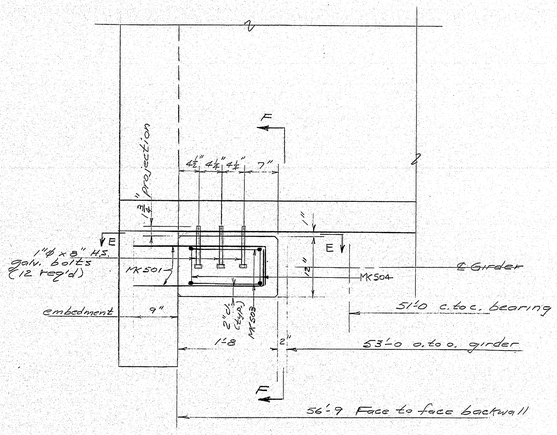
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
LAYOUT & DETAILS
NEW MEADOWS RIVER BRIDGE
between
Bath & Sagadahoc Co.
Brunswick Cumberland Co.
SHEET 5 OF 6 AUGUSTA, MAINE June 1973

JANUARY 1968

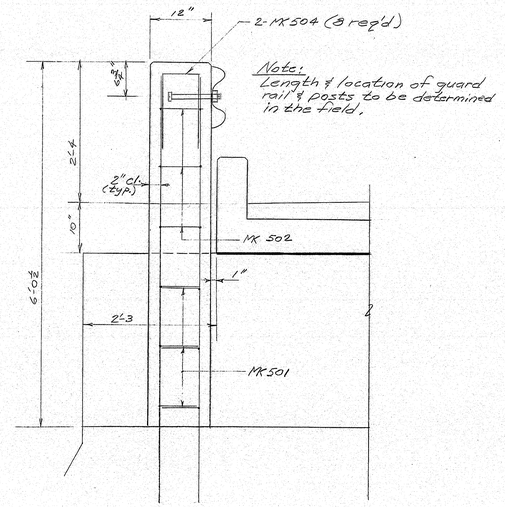
2034 2080

137137-40

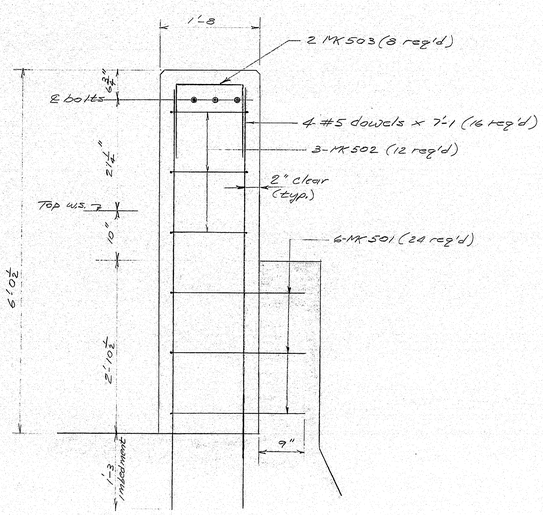
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	2604	6	6



PLAN - GUARD RAIL POST
(4 Req'd)



SECTION F-F

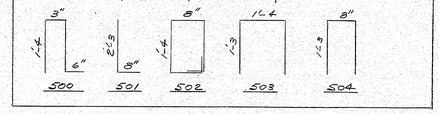


SECTION E-E

LIST OF MATERIALS - SUPERSTRUCTURE

A. Reinforcing Steel:

No.	Size	Mark	Length	Location
100	5	—	30'-0	Slab & curb
236	5	—	21'-8	Slab
42	3	—	30'-0	wearing course
59	3	—	20'-8	wearing course
8	5	—	26'-0	backwalls
108	5	—	2'-6	backwalls
16	5	—	7'-1	end posts
118	5	500	3'-5	curbs
24	5	501	2'-11	end posts
12	5	502	5'-0	" "
8	5	503	3'-10	" "
8	5	504	3'-2	" "



B. Class A Concrete:
50 cubic yards

C. Miscellaneous Items:
a. 4-6"ϕ x 2'-8" steel pipe.
b. 12-1"ϕ x 0'-8 galv. h.s. steel bolts, nuts & washers.
c. 2 gals. joint sealant.

PLANS		BY	DATE
	DESIGN - DETAILED	D. Grandlemire	6/73
	CHECKED		
	REVISIONS		
	FIELD CHANGES		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
END POST DETAILS &
MATERIALS LIST
NEW MEADOWS RIVER BRIDGE
between
Bath & Sagadahoc Co.
Brunswick & Cumberland Co.
SHEET 6 OF 6 AUGUSTA, MAINE June 1973

JANUARY 1968

203-1 2060

3137-41