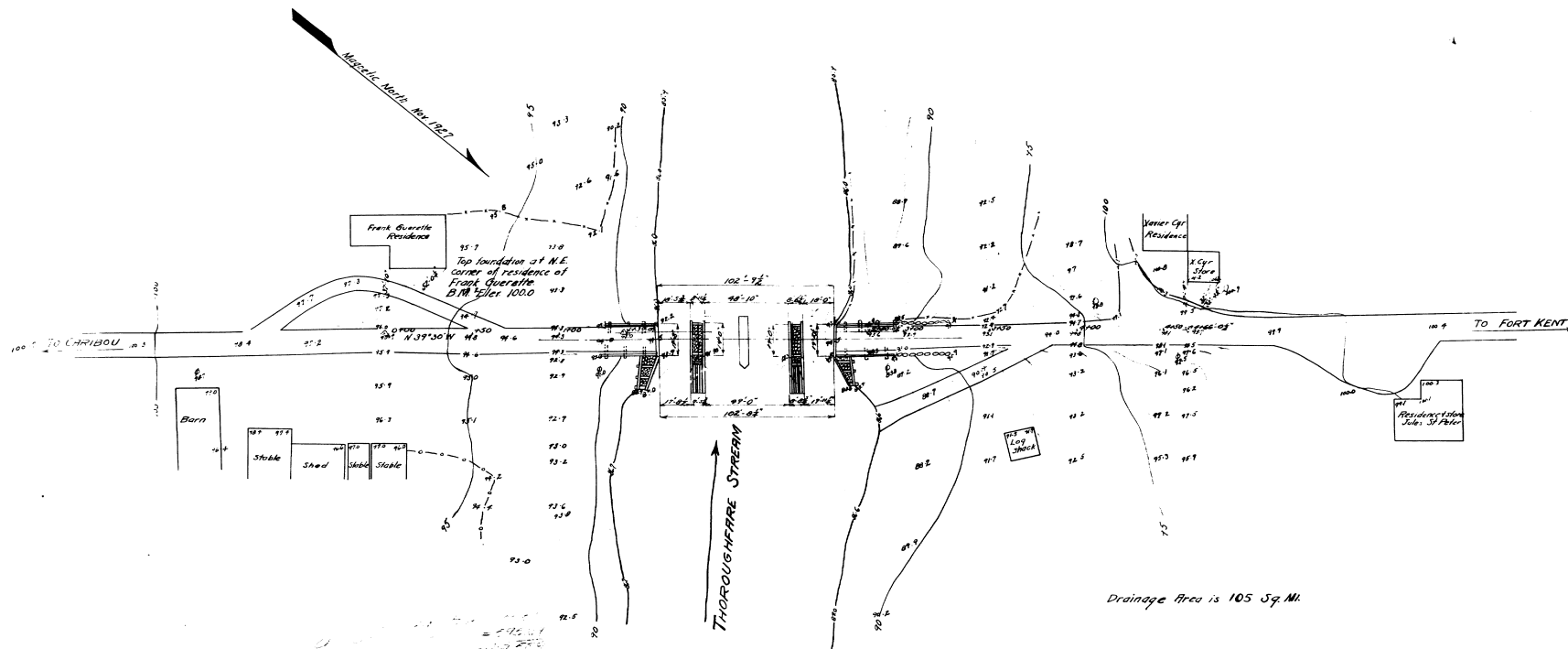
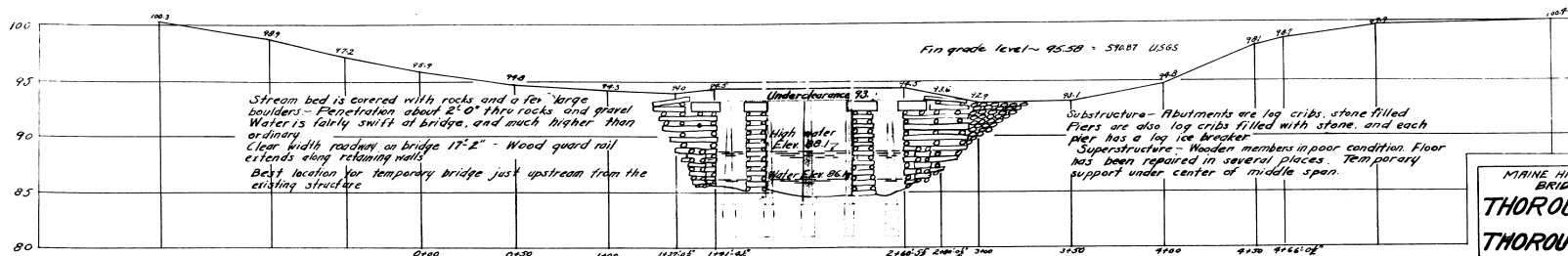




PLAN
Scale 1" = 30'

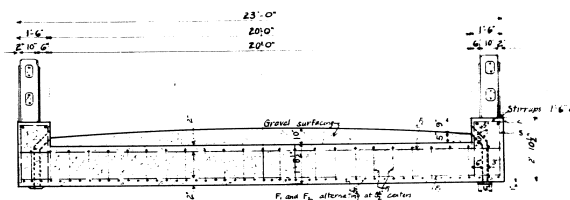
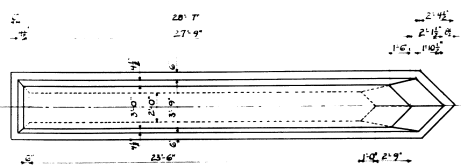


PROFILE
H - 1" = 30'
Scales
V - 1" = 5'

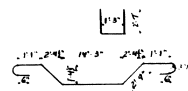
MAINE HIGHWAY COMMISSION
BRIDGE DIVISION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
T17.R5 ARDOSTOCK CO.
SURVEY PLAN
Sheet 1 of 3 Augusta, Me. Dec. 1927

10-56

0 1 2 3 4 5 INCHES



STEEL SCHEDULE				REMARKS
MARK	SIZE	NO	LENGTH	
K	3/4"	36	5'-0"	
C	1/2"	16	21'-9"	
P	3/4"	96	4'-0"	
R	5/8"	84	7'-3"	
F ₁	1"	104	21'-9"	
F ₂	3/4"	88	22'-9"	



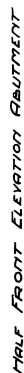
RAIL DETAILS

NOTE: Girders and sleep to be cast together. Sleeps for posts to be cast in concrete. Truss cast and beam in lengths of 7'-0" placed end to end in position. Cast and concrete the posts before the truss and beam with the truss members of light roofing left flat in ends and under roof line and removed. Cast sleep at full exposed. Place on posts to be 3" above chord. All exposed areas to be concrete unless otherwise indicated.

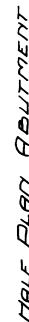
MAINE HIGHWAY COMMISSION
BRIDGE DIVISION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
T17. R5, ARROSTOCK CO.
BRIDGE DETAILS
SHEET 2 of 2 AUGUST 1982 JULY 14, 1980

10-57

Future Finish Grade 602.58

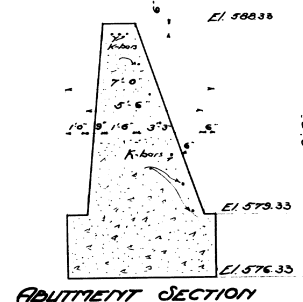


No. 1 & No. 2. ~ Abutments symmetrical about both center lines

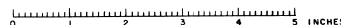


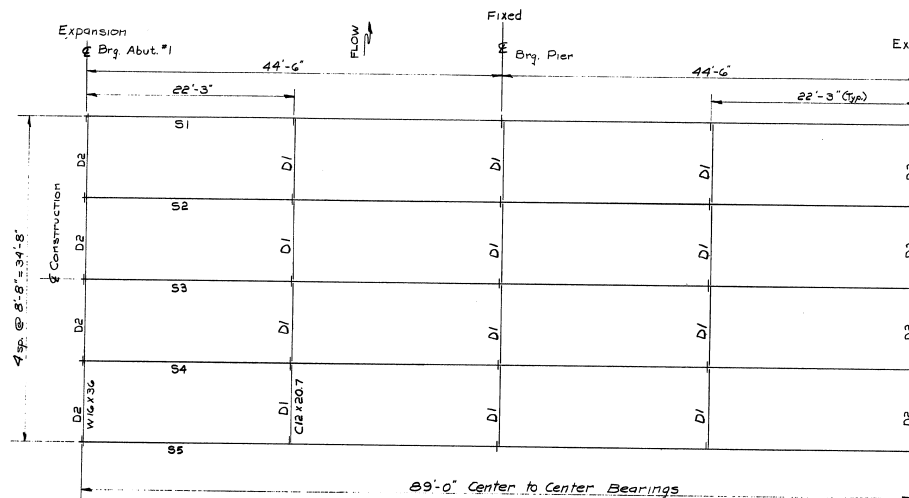
Cover the 2" slab between the superstructure and wing walls on the back side with two layers of heavy roofing felt. Coat surface of concrete wing back area with layer of asphalt with hot air or oxy-fuel felt to be 10 wide. The entire wing back area must be covered by the felt to be removed by pulling this upward to the forms before the concrete is placed.

ABUTMENT ANALYSIS

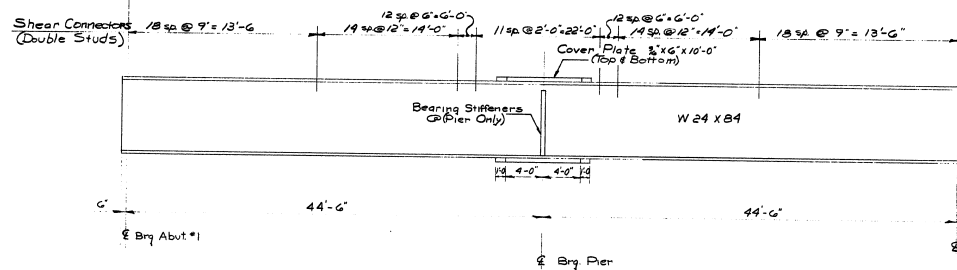


MAINE HIGHWAY COMMISSION
BRIDGE DIVISION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
T17 R5, BROOKS CRO.
BRIDGE DETAILS
SHEET 3 of 3 AUGUSTINE ME JULY 12 1930

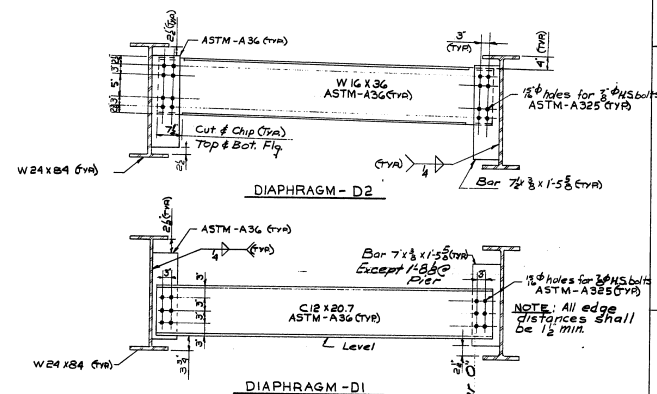




FRAMING PLAN

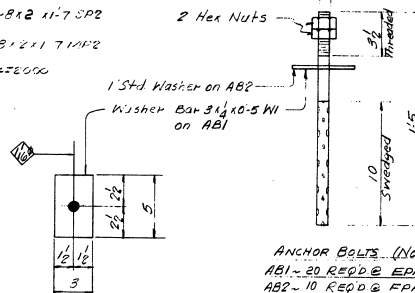
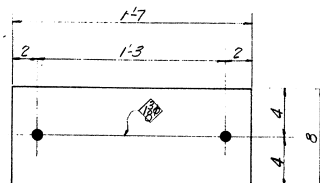
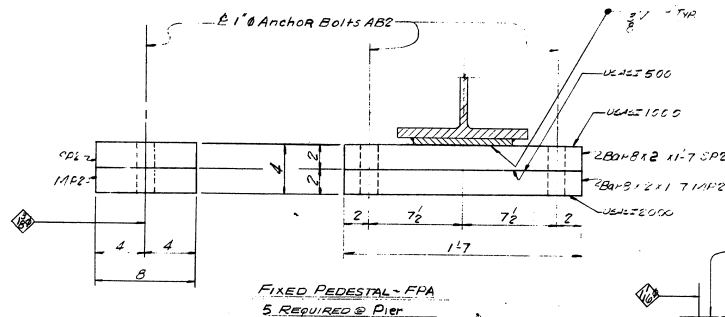
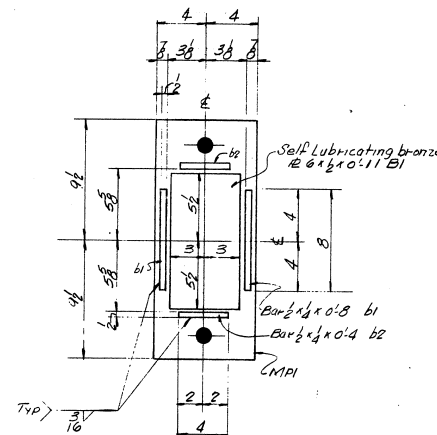
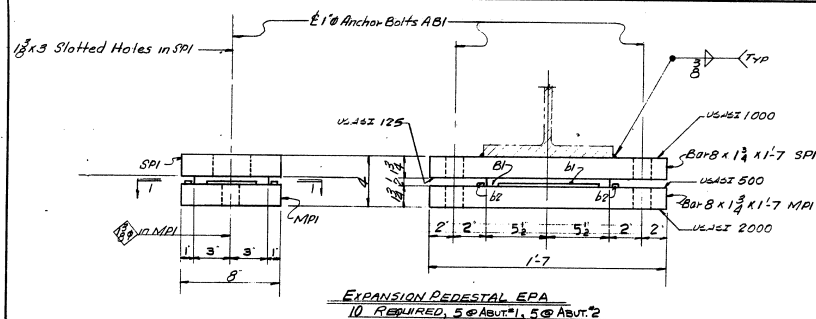


BEAM ELEVATION 1 thru 5
Comber not required



ITEM No. 504.70
Project No. BR-5-S-0338(9)
APP. 8-7-73

PRINT DIST.			
20	8-1-73	FA	
15	8-7-73	Revised	
2	8-10-73	FA	
2	8-10-73	Rev	
FOR THOROUGHFARE BRIDGE OVER THOROUGHFARE STREAM GUERRETTE, MAINE			
CUSTOMER: GENERAL SUPPLY CORP.			
DESIGNER: STATE OF ME. DEPT. OF TRANSPORTATION			
REV.	8/1/73	JAF	
CHECKED	8/1/73	JAF	
DRAWN	7/28/73	WGP	
ORDER NO.	JOB NO.		DRAWING NO.
	B 73-257		E1



NOTES:

- 1 No paint on SELF lubricating bronze plate.
- 2 No paint on area in contact with bronze plate, coat with mixture of white lead and tallow.
- 3 No paint on top surface of SPI & SP2. Coat with boiled linseed oil.

SHIP		BILL OF MATERIAL				DWG. NO. 5-1	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS
EXPANSION PEDESTAL					ERA	(10 REQ'D)	
SPI	10		Bol 5x1 1/2	1 7		9	
NPI	10		Bol 5x1 1/2	1 7		9	
AB1	20		1" Bol	1 5		13	} Snydged Ordered 8-6-73 No. 1929 X
W1	20		Bol 3/4"	0 5			
B1	10		Bol 6/8"	0 11		16	} Shift Subst. 8/27/73 Ordered 8-6-73
	20	61	Bol 1/2"	0 5		12	
	20	62	Bol 1/2"	0 4		11	
FIXED PEDESTALS					FPA	(5 REQ'D)	
SP2	5		AN 8x2	1 7		B	
NPC	5		AN 8x2	1 7		B	
ABC	10		1" Bol	1 5		13	} Snydged Ordered 8-6-73 No. 1929 X
FWU	10		1 1/2" G. NUTS			15	
	60	Shop	1 Hex Nuts			14	
FPI	15		AN 3/4"	1 7			Performed Aug Mag. No. 3509
ITEM NO. 509.70							
Project No. BA-5-038(G)							
* Anchor Bolt Steel may be					136		

STEEL A36
I

SHOP CONNECTIONS: See Welding Procedures
FIELD CONNECTIONS: Welded & Bolted
HOLES: as noted
PAINT: Red lead and as noted
per M.S.H.C. Specs.

APR 8-7-73

BEARING PEDESTALS

Bancroft & Martin, Inc.

South Portland 7 Maine

THOROUGHFARE BRIDGE

THOROUGHFARE STREAM
GUEPDETTE MAINE

CUSTOMER GENERAL SUPPLY CO.

DESIGNER STATE OF MA. DEPT. OF TRANS.

JOB NO. B73-257 DWG. NO. 51-

120119

139:128

DRAWN	7/24/73	MGH
REVISION		
REVISION		
REVISION		

100-443887-100

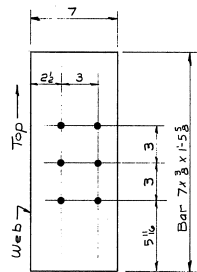
12 JAN 1968

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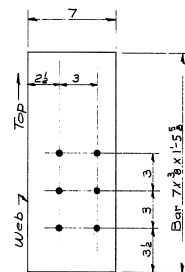
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1990

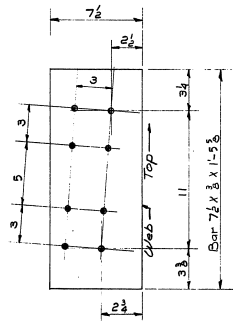
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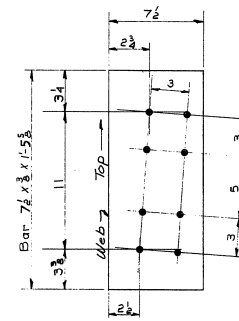
8-dp1



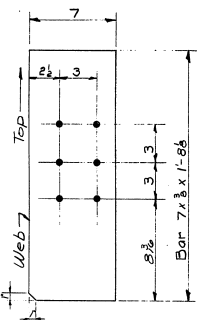
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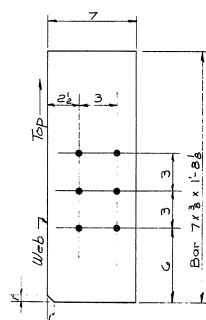
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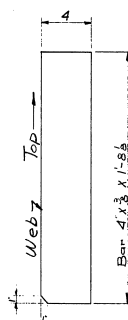
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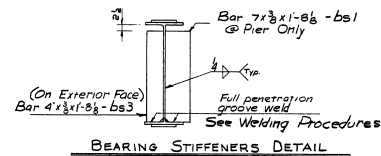


4-bs2



2-bs3

15/16" Holes



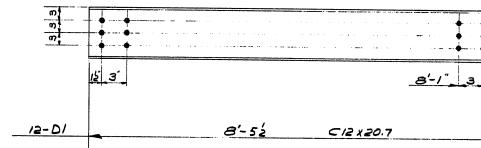
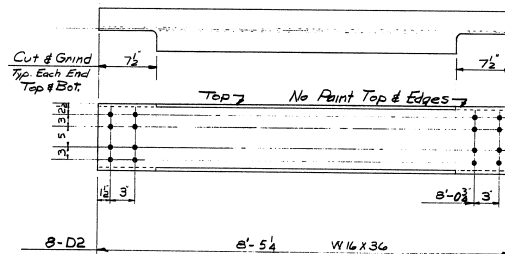
BEARING STIFFENERS DETAIL

Project No. BR-55-0338(9)

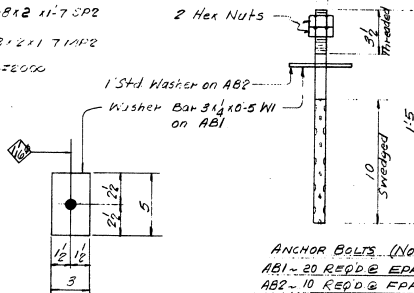
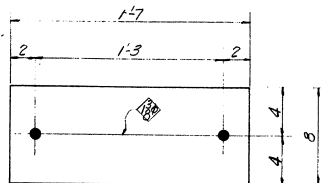
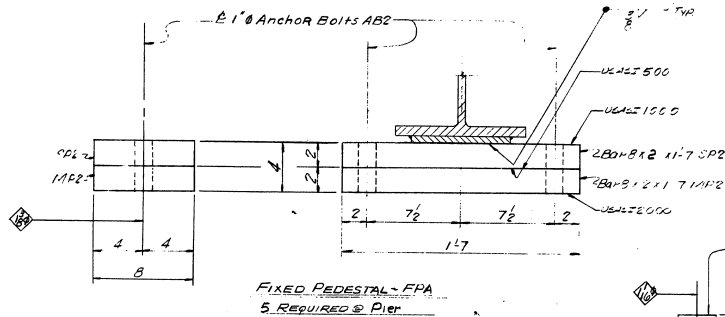
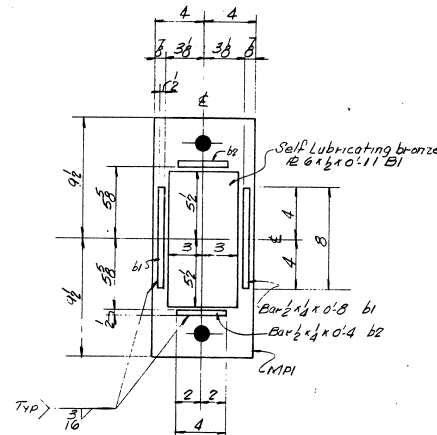
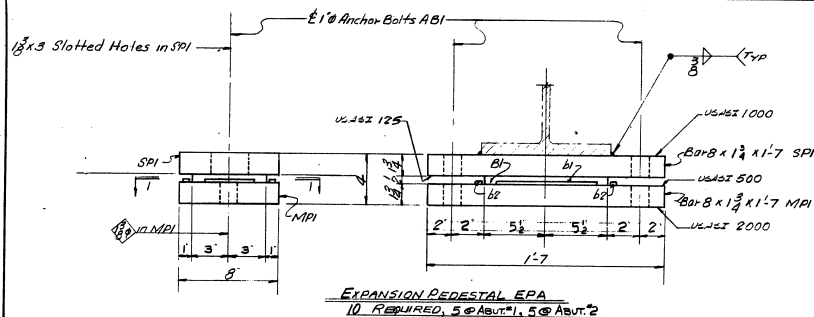
APP. 8-7-73

BEARING STIFFENERS & DIAPHRAGM R'S			
PRINT DIST.			
2 P	8-1-73	FOR	Barcroft & Martin Inc.
1 SEP	8-7-73	BY	South Portland, Maine 04106
2 P	8-10-73	CUST	JOB THOROUGHFARE BRIDGE
			OVER THOROUGHFARE STREAM
			GUERRETTE, MAINE
			CUSTOMER GENERAL SUPPLY CORP.
			DESIGNER STATE OF ME. DEPT. OF TRANSPORTATION
REV.		ORDER NO.	JOB NO.
CHECKED	8/1/73 JPK		
DRAWN	7/26/73 MGP		
			DRAWING NO.
			55-2

139:130



SHIP		BILL OF MATERIAL		JOB NO. B73-257		DWG. NO. 56-1	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	THK.	REMARKS
D1	12		C12 x 20.7	8' 5 1/2"	6		
D2	8		W16 x 36	8' 5 1/2"	7		
Field	280		3/8" HS Bolt	2			A325 Type 1
do	280		3/8" Washers	2			A325 Type 1
HOLES ARE FOR 3/8" DIA. TENSILE BOLTS They are to be "true" bolts and should not be painted on any surface unless it is steel cover plate							
Item No: 504.70 Proj. No: BR-SIS-0336(9)							
STEEL: ASTM A36 WELDING ELECTRODE SHOP CONN. FIELD CONN. Bolted HOLES: 1/8" PAINT: Red lead and as noted per M.S.H.C. Specs SPECIAL CLEANING: Blast clean APPROVED: 3-7-73							
DIAPHRAGMS							
PRINT DIST. 22 1/1-22 FA 122 8-7-73 REWINE 122 8-10-73 CUST.							
Barcroft & Martin Inc. South Portland, Maine 04106 JOINT THOROUGHFARE BRIDGE OVER THOROUGHFARE STREAM GUERRETTE, MAINE CUSTOMER: GENERAL SUPPLY CORP. DESIGNER: STATE OF ME. DEPT. OF TRANSPORTATION							
REV.		CHECKED		JOB NO.		DRAWING NO.	
8/1/73 JZF		7/26/73 MBN		B73-257		56-1	



ANCHOR BOLTS (NO PAINT - OIL THREADS)
AB1 ~ 20 REQ'D @ EPA
AB2 ~ 10 REQ'D @ EPA

NOTES:

- 1 No paint on self lubricating bronze plate.
- 2 No paint on area in contact with bronze plate, coat with mixture of white lead and tallow.
- 3 No paint on top surface of SPI & SP2. Coat with boiled linseed oil.

SHIP		BILL OF MATERIAL				DWG. NO. 51-1	
MARK	NO.	MARK	SHAPE	LENGTH	WT.	ITEM NO.	REMARKS
EXPANSION PEDESTAL ERA (10 REQD)							
SP1	10		Bolt 8x1 1/2	1 7		9	
MP1	10		Bolt 8x1 1/2	1 7		9	
AB1	20		1" B2R	1 5		13	} Swaged Ordered 8-6-73 No. 1929 X
W1	20		Bolt 3" x 1/2	0 5			
B1	10		Bolt 6x2	0 11		16	} JWF Substituted Ordin. 8-6-73
	20	61	Bolt 2" x 1/2	0 5		12	
	20	62	Bolt 2" x 1/2	0 4		11	
FIXED PEDESTALS FPA (5 REQD)							
SP2	5		Bolt 8x2	1 7		8	
MP2	5		Bolt 8x2	1 7		8	
AB2	10		1" B2R	1 5		13	} Swaged Ordered 8-6-73 No. 1929 X
F10	10		1" S.H. x 10" S.H.			15	
	60	Shop	1 Hex Nuts			14	
FP1	15		Bolt 5" x 1/2	1 7			Preformed Pad Mag. No. 3509
ITEM NO. 3509.70							
Project No. BR-55-0336(9)							
* Anchor Bolt Steel may be						136	

STEEL A36
IT

SHOP CONNECTIONS: See Welding Procedures
FIELD CONNECTIONS: Welded & Bolted
HOLES: as noted
PAINT: Red lead and as noted
per M.S.H.C. Specs.

APR 8-7-73

BEARING PEDESTALS

Bancroft & Martin Inc.
South Portland 7, Maine

THOROUGHFARE BRIDGE OVER
-THOROUGHFARE STREAM
GUERRETTE, MAINE

CUSTOMER GENERAL SUPPLY CORP.
DESIGNER STATE OF MA. DEPT. OF TRANSPORTATION

JOB NO. <u>B73-257</u>	DWG. NO. <u>51-1</u>
------------------------	----------------------

130.128

DRAWN	7/24/73	MGR
REVISION		
REVISION		
REVISION		

① JRF

139:128

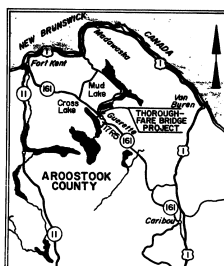
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



BUREAU OF HIGHWAYS
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN THE TOWNSHIP OF
T17-R5
AROOSTOOK COUNTY
PROJECT NO. BR-S-S-0338(19)

CONVENTIONAL SIGNS	
COUNTY LINES	TRAVELLED WAY - PROPOSED
TOWN LINES	UNDERGROUND UTILITIES - EXISTING
PROPERTY LINES	UNDERGROUND UTILITIES - PROPOSED
R/W LINES - EXISTING	RAILROAD - SINGLE TRACK
R/W LINES - NEW ACCESS CONTROL	RAILROAD - DOUBLE TRACK
R/W LINES - NEW-NO ACCESS CONTROL	UTILITY POLE - EXISTING
CAVITY - EXISTING	UTILITY POLE - JOINT OCCUPANCY
CAVITY - PROPOSED	PROPOSED UTILITY POLE - TEMPORARY
CURBING - EXISTING	PROPOSED UTILITY POLE - PERMANENT
CURBING - PROPOSED	TREES
TRAVELLED WAY - EXISTING	WOODS

INDEX OF SHEETS	
1.	TITLE SHEET
2.	GENERAL PLAN
3.	SURVEY
4.	PROFILE
5.	FOUNDATION SURVEY
6.	BORING DETAILS
7.	CROSS-SECTIONS
8.	ABUTMENT NO. 1 AND ABUTMENT NO. 2
9.	ABUTMENT SECTIONS
10.	PIER
11.	STRUCTURAL STEEL
12.	SUPERSTRUCTURE
13.	SUPERSTRUCTURE DETAILS
14.	END POST DETAILS
15.	REINFORCING STEEL SCHEDULE
16.	RIGHT OF WAY MAP
17.	- BRIDGE STANDARDS -
18.	BD 101-70 BEARING PEDESTALS
19.	BD 104-71 SHEAR CONNECTORS
20.	BD 110-69 GUARD RAIL - TYPE 3b (FLARED ENDS)
21.	BD 114-73 2 BAR ALUMINUM RAILING
22.	- HIGHWAY STANDARDS -
23.	AUGUST 1969 UNDERDRAIN
24.	AUGUST 1969 GUARD RAIL
25.	AUGUST 1969 BARRICADES AND WARNING SIGNS
26.	AUGUST 1969 FIELD OFFICE



LOCATION MAP
SCALE IN MILES
0 10 20

SPECIFICATIONS

DESIGN - AASHTO Standard Specifications Highway Bridges 1969 and Interim Specifications 1970, 1971, 1972.

CONTRACT - State of Maine, State Highway Commission, Standard Specifications, Highways & Bridges, Revision of June 1968.

LIVE LOADING

HS20-44

MATERIALS

CONCRETE - All Concrete - - - Class A.

REINFORCING STEEL - ASTM-A615 Grade 60.

STRUCTURAL STEEL - Beams and Cover Plates - A572 Grade 50.
7/8" diameter High Tensile Strength Bolts - A325.
All others - A36

BASIC ALLOWABLE STRESSES

CONCRETE - $f_c = 1200$ psi. $n = 10$

REINFORCING STEEL - $f_s = 24,000$ psi.

STRUCTURAL STEEL - ASTM A572, Grade 50 - $f_s = 27,000$ psi.
ASTM A36 - $f_s = 20,000$ psi.
ASTM A325 - $f_t = 15,500$ psi.

TRAFFIC DATA

A.D.T. 1195 1973
A.D.T. 1910 1993
D.H.V. 228
T (%) 10
D (%) 7
V. 50 mph
P.S.D. (%) N.A.
18 KIPS N.A.

HYDROLOGIC DATA

DRAINAGE AREA - 104 sq. miles
Q100 - 1800 cfs.
STREAM VELOCITY AT Q100 - 6.6 fps



APPROVED:

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Richard A. Luetich, Sr.
COMMISSIONER
May 10, 1973
Chief Engineer and Bureau Director

DATE
May 10, 1973

Marked As Built Pgs 8/15/74

UNITED STATES
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 1
APPROVED:
DIVISION ENGINEER DATE

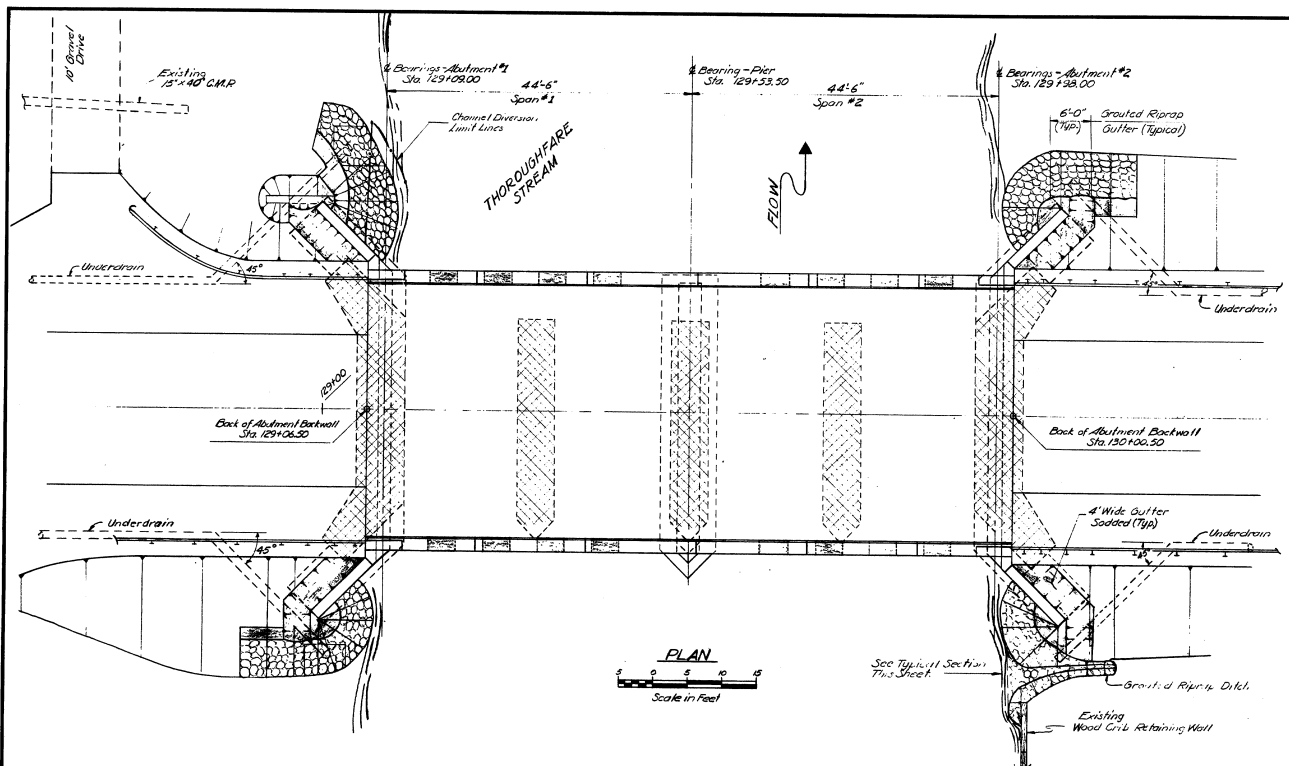
ESTIMATED BRIDGE QUANTITIES		
ITEM	DESCRIPTION	UNIT QUANTITY
201.13	REMOVING SINGLE TREES, 9" TO 24" TOPS ONLY	EACH 3
201.19	REMOVING STUMPS, 9" TO 24"	EACH 3
202.10	REMOVAL OF EXISTING SUPERSTRUCTURE (PROPERTY OF CONTRACTOR)	L.S. 1
202.12	REMOVAL OF EXISTING STRUCTURAL CONCRETE	C.Y. 190
203.20	COMMON EXCAVATION	C.Y. 520
203.24	COMMON BORROW	C.Y. 50
206.08	STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES	C.Y. 185
206.10	STRUCTURAL EARTH EXCAVATION - ABUTMENTS AND RETAINING WALLS	C.Y. 58
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	C.Y. 710
410.20	BITUMINOUS SURFACE TREATMENT	S.Y. 630
411.09	UNTREATED AGGREGATE SURFACE COURSE	C.Y. 31
502.21	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	C.Y. 180
502.23	STRUCTURAL CONCRETE, PIERS	C.Y. 75
502.26	STRUCTURAL CONCRETE, ROADWAY AND SIDEWALK SLABS ON STEEL BRIDGES	LBS. 35900
503.12	REINFORCING STEEL, FABRICATED AND DELIVERED	LBS. 35900
503.13	REINFORCING STEEL, PLACING	LBS. 35900
504.70	STRUCTURAL STEEL, FABRICATED AND DELIVERED	LBS. 35900
504.71	STRUCTURAL STEEL, ERECTION	LBS. 35900
505.08	SHEAR CONNECTORS	LBS. 35900
506.14	FIELD PAINTING, STRUCTURAL STEEL	LBS. 35900
507.141	ALUMINUM BRIDGE RAILING, TYPE "A"	L.F. 166
510.10	SPECIAL DETOUR ROADWAY WITH VEHICULAR & PEDESTRIAN TRAFFIC NOT SEPARATED	L.S. 1
511.0701	COFFERDAM, ABUTMENT NO. 1	L.S. 1
511.0702	COFFERDAM, PIER	L.S. 1
511.0703	COFFERDAM, ABUTMENT NO. 2	L.S. 1
512.06	FRENCH DRAINS	C.Y. 90
514.06	CURING BOX FOR CONCRETE CYLINDERS	EACH 9
515.20	PROTECTIVE COATING FOR CONCRETE SURFACES	S.Y. 515
603.161	18 INCH CORRUGATED METAL PIPE	L.F. 116
603.73	REMOVE AND RELAY 21 INCH CORRUGATED METAL PIPE	L.F. 28
605.12	15 INCH UNDERDRAIN TYPE "C"	L.F. 324
606.17	GUARD RAIL TYPE 3b - SINGLE RAIL	L.F. 163
606.22	GUARD RAIL TYPE 3b - CIRCULAR - GREATER THAN 15 FOOT RADIUS	L.F. 4
606.26	TERMINAL ENDS - SINGLE RAIL	L.F. 4
610.09	PLAIN RIPRAP	EACH 4
610.12	PORTLAND CEMENT FOR RIPRAP GROUT	C.Y. 80
615.07	LOAM	RBL. 9
616.08	SODDING	C.Y. 30
618.14	SEEDING, METHOD NO. 2	S.Y. 43
618.15	TEMPORARY SEEDING	UNIT 4
619.09	HAY MULCH	UNIT 4
620.415	EUROPEAN MOUNTAIN ASH 1.5" TO 2" CALIPER	EACH 2
629.05	LABOR, STRAIGHT TIME	M. HR. 40
631.13	BULLDOZER (INCLUDING OPERATOR)	HR. 10
631.171	TRUCK - SMALL (INCLUDING OPERATOR)	HR. 10
631.22	FRONT END LOADER (INCLUDING OPERATOR)	HR. 10
632.08	WARNING LIGHTS	GROUP 2
633.09	PORTABLE BARRICADES	EACH 2
633.09	FIELD OFFICE, TYPE B	EACH 1
682.201	SEED AND APPLICATION - METHOD A	UNIT 2
ESTIMATED QUANTITIES OF LUMP SUM ITEMS		
STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLABS ON STEEL BRIDGES - 138 C.Y. (INCLUDING END POSTS)		
STRUCTURAL STEEL - 46,650 POUNDS		
SHEAR CONNECTORS - 1000 POUNDS OR 1000 STUDS		

NOTE: All work contemplated under this contract shall be governed by and in conformity with the Standard Specifications (Revision of June 1968) and Supplements thereto, except as modified on the Plans and in the Special Provisions.

COAST GUARD PERMIT REQUIRED

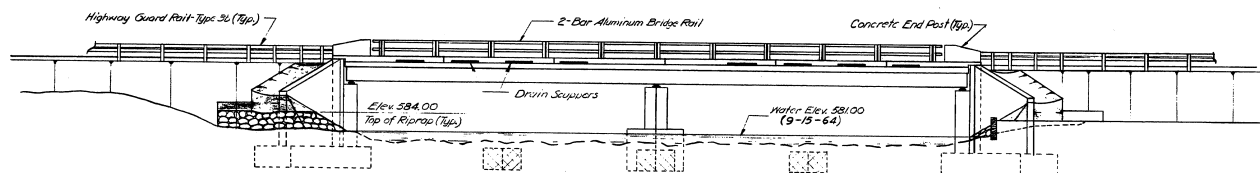
150-108

DATE	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	26-5-5-03800	2	24



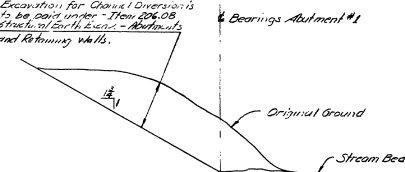
PLAN
Scale in Feet

See Typical Section
This Sheet

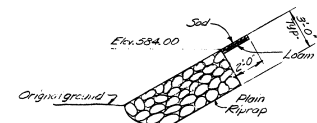


ELEVATION
Horizontal and Vertical
Scale in Feet

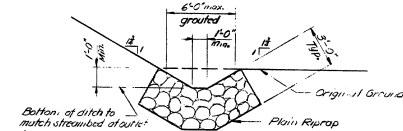
Excavation for Channel Diversions
to be done under Item 604.08
Structure of earth, stone, or concrete
and retaining walls.



CHANNEL DIVERSION



TYPICAL RIPRAP SECTION



TYPICAL SECTION-ABUTMENT NO. 2 GROUTED RIPRAP DITCH

GENERAL NOTES

1. Cross-hatched areas show existing sub-structure to remain.
2. Place a four foot wide sand strip within Abutment Wings as shown in shaded areas on the Plan. The center of this strip shall be up and 3\"/>

As Built Rpt 8/15/74

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T17 R5
AROSTOOK COUNTY
GENERAL PLAN
SHEET 2 OF 24 AUGUSTA, MAINE May 1971

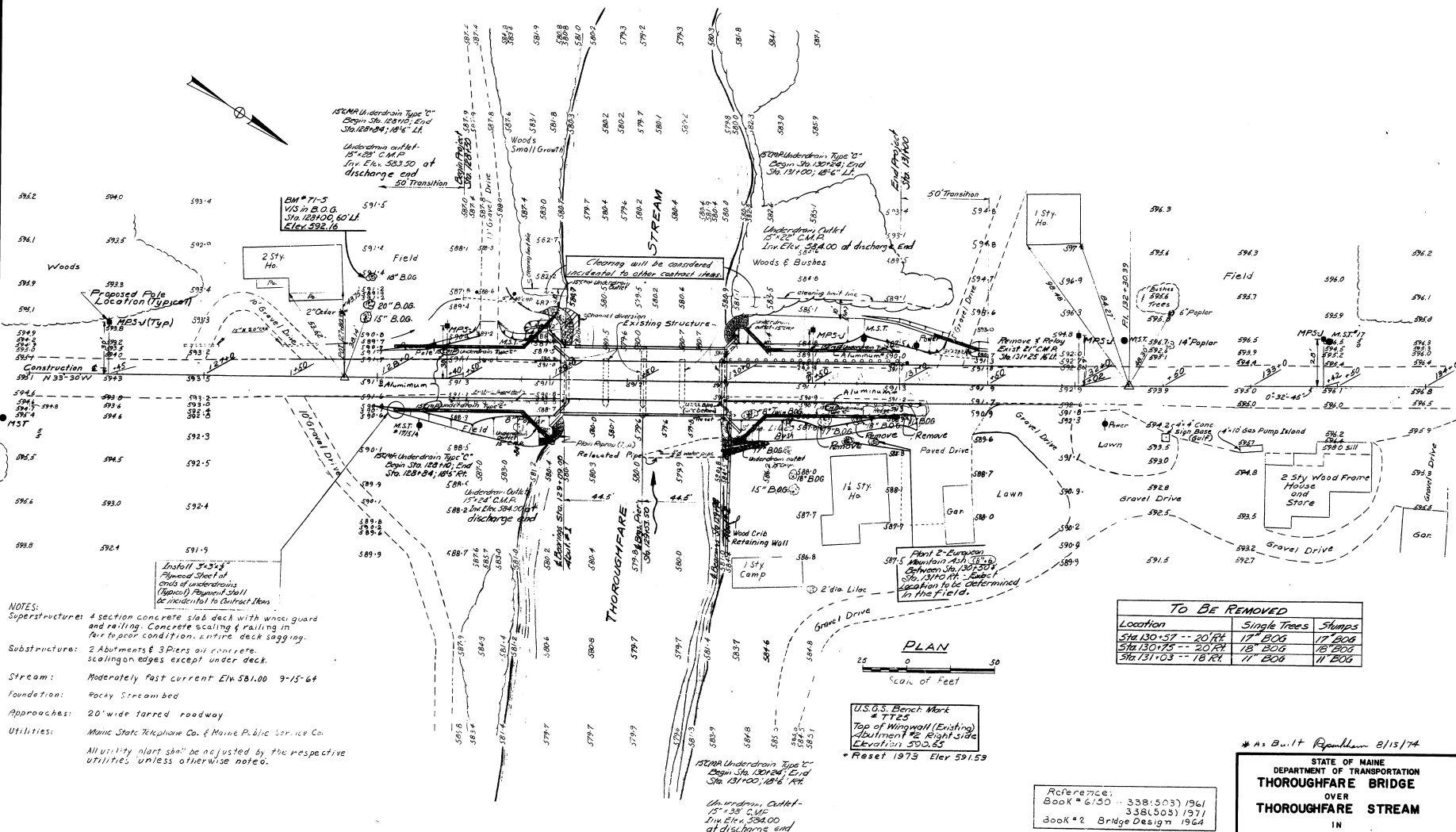
150-109

DATE	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	MA-5-5-02(1969)	3	24

Check
Preliminary
Survey checked WAC
12/2/72
12/2/72
12/2/72

DESIGN - DETAILED	DATE
BY	
REVISIONS	
FIELD CHANGES	

PLANS



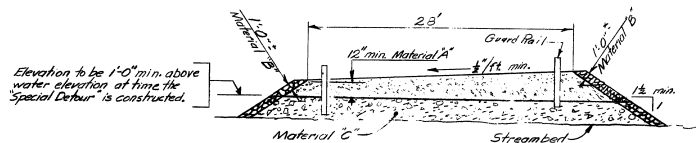
Location	Single Times	Stumps
Sta 130+57 -- 20' RL	17' BOG	17' BOG
Sta 130+75 -- 20' RL	18' BOG	18' BOG
Sta 131+03 -- 18' RL	17' BOG	11' BOG

* As Built Reproduced 8/15/74

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T 17 R 5
AROOSTOOK COUNTY
SURVEY
SHEET 3 OF 24 AUGUSTA, MAINE AUGUST 1971

150-110

S. S. C.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	SE-5-5-0338(N)	4	24



TYPICAL SECTION ~ SPECIAL DETOUR
(See Special Provisions)

NOTES

1- This section with materials shown shall be used if the Contractor chooses to place any fill material in the stream.

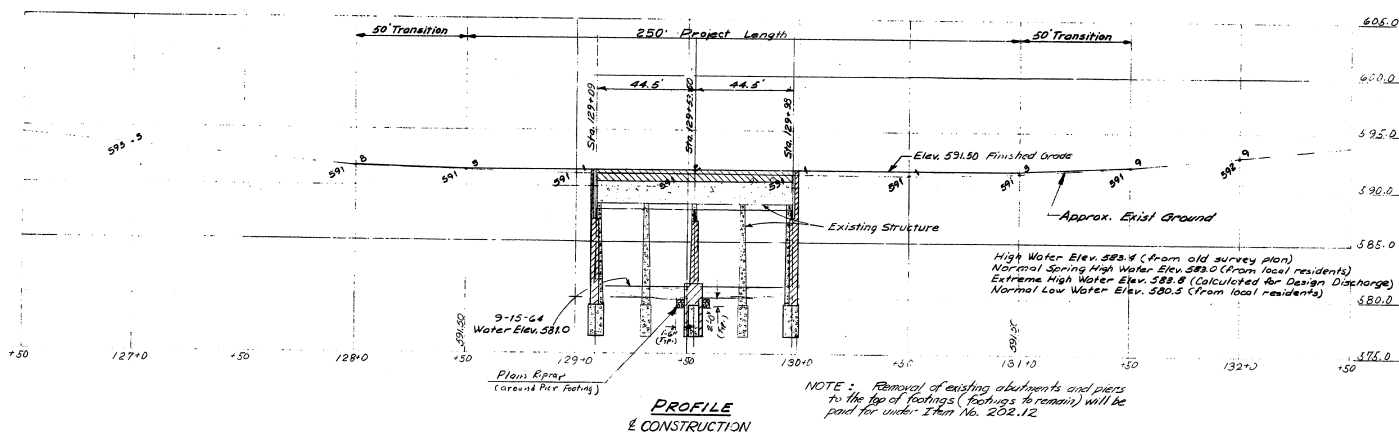
2- No separate payment shall be made for any materials used in the Detour as they shall be considered incidental to Section 50.10, "Special Detour, 24' Roadway Width, Vehicular and Pedestrian Traffic not Separated."

MATERIALS

MATERIAL "A": Shall meet the requirements of Sub-Section 703.20

MATERIAL "B": Shall meet the requirements of Sub-Section 703.24

MATERIAL "C": Shall be washed Gravel meeting the requirements of Subsection 703.20 except that portion passing #200 sieve shall not exceed 2%; or shall meet the requirements of Subsection 703.24 or shall be crushed rock meeting the requirements of Subsection 703.24.



PROFILE & CONSTRUCTION

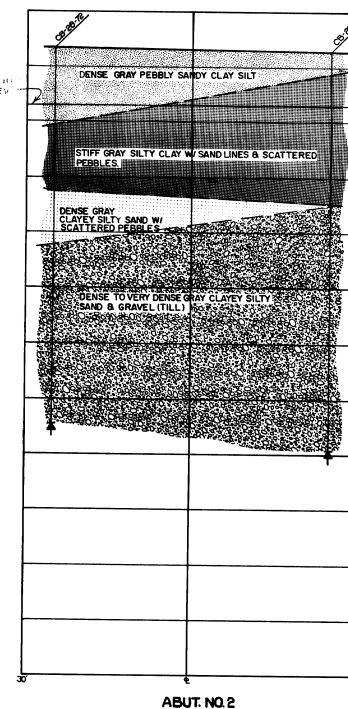
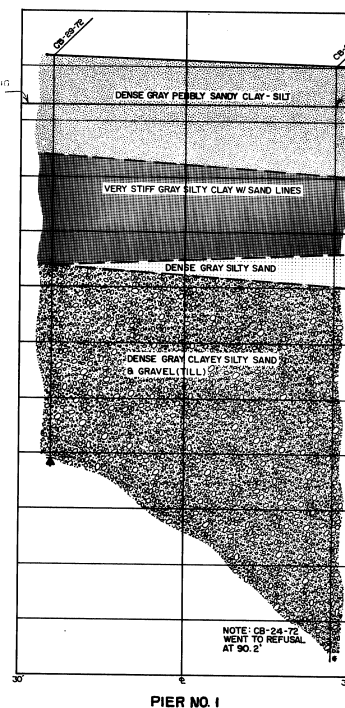
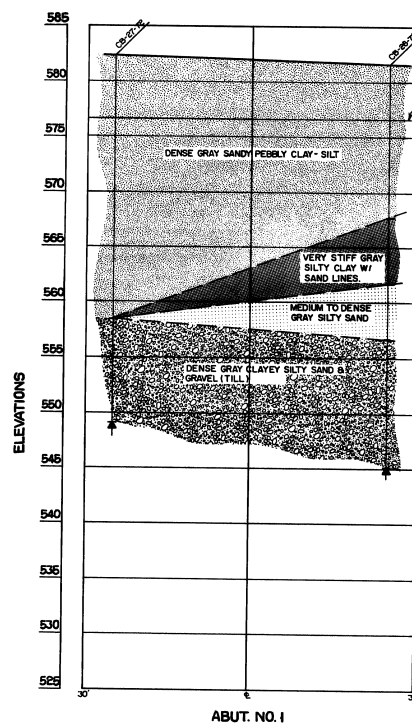
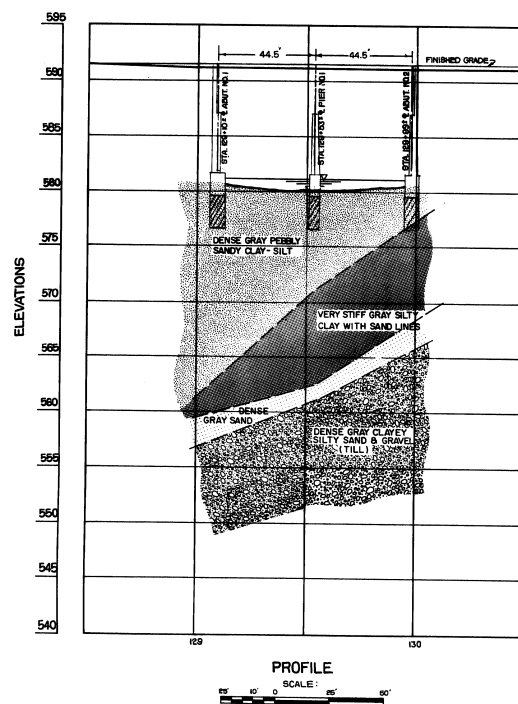
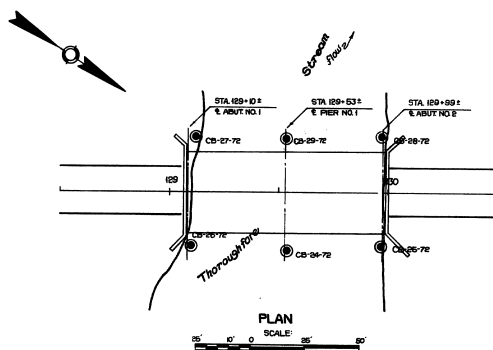
NOTE: Removal of existing abutments and piers to the top of footings (footings to remain) will be paid for under Item No. 202.12

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T17 R5
AROSTOOK COUNTY
PROFILE
SHEET 4 OF 24 AUGUSTA, MAINE AUGUST 1971

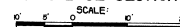
150-111

Checked Preliminary P-316 Cnk 10-2-72	6-13-72 WAC 1-27-72	DATE
DESIGNED BY P-316 Cnk 10-2-72	BY P-316 Cnk 10-2-72	DATE
REVISIONS CHECKED P-316 Cnk 10-2-72	BY P-316 Cnk 10-2-72	DATE
FIELD ENGINEER		

S. F. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	BR-S-S-03307	5	24



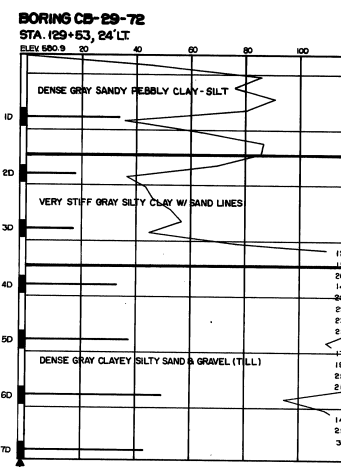
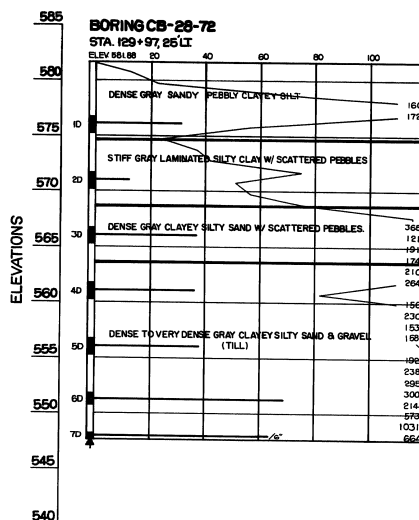
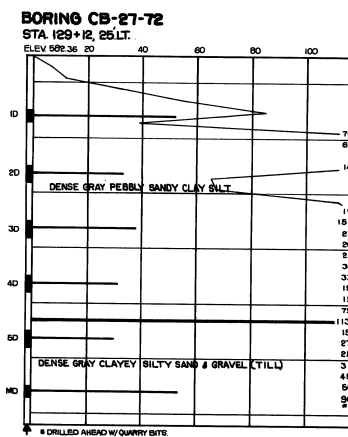
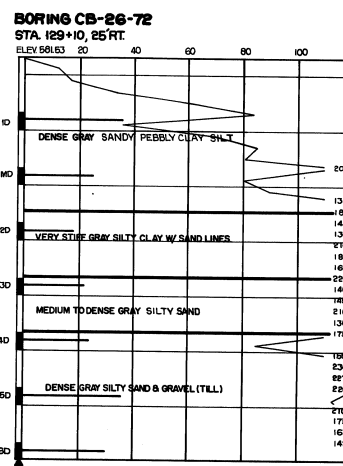
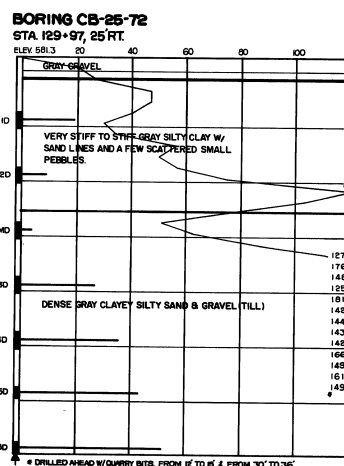
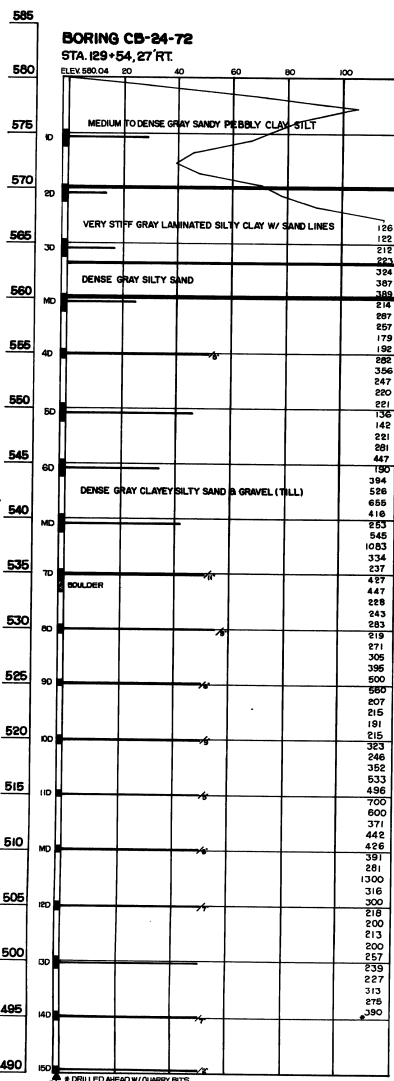
TRANSVERSE SECTIONS



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T17 R5
AROOSTOOK COUNTY
FOUNDATION SURVEY
SHEET 5 OF 24 AUGUSTA, MAINE

150-112

DATE	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	84-5-5-03879	6	24



BORING NOTES

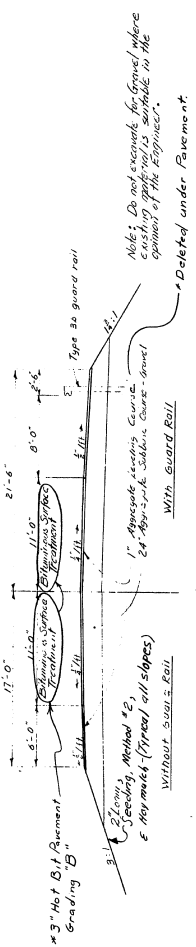
- ALL SAMPLES AND VINES ARE MADE AHEAD OF CASING
- WATER ELEVATION
- NUMBER OF BLOWS REQUIRED TO DRIVE EXTRA HEAVY CASING ONE FOOT WITH 400 LB. OF ENERGY PER BLOW
- LOCATION OF SAMPLE OR SAMPLE ATTEMPT
- NUMBER AND TYPE OF DRY SAMPLE
- 10 S B H SAMPLER 1250'S
- UNSUCCESSFUL SAMPLE ATTEMPT AND TYPE OF SAMPLER
- NUMBER OF BLOWS REQUIRED TO DRIVE SPOON OR TUBING ONE FOOT WITH 300 LB. OF ENERGY PER BLOW
- BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
- REFUSAL OF DRILL RODS OR CASING (MAY NOT BE LEDGE)
- LOCATION CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T17 R5
AROOSTOOK COUNTY
BORING DETAILS
SHEET 6 OF 24 AUGUSTA, MAINE May 1973

150-113

DESIGN: RUM CHECK: BNL

CONSTRUCTION



TYPICAL APPROACH SECTION

MPS-V Station 132+02 (29' Left)

590

131+50 End Transition

590

131+0 End Project

590

590

130+50

590

130+0

590

590

590

590

590

590

590

BRIDGE

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

590

Proposed Pole Location (Typical)
 MPS-V Station 126+45

127+50

127+50

127+50

127+50

127+50

127+50

127+50

127+50

127+50

127+50

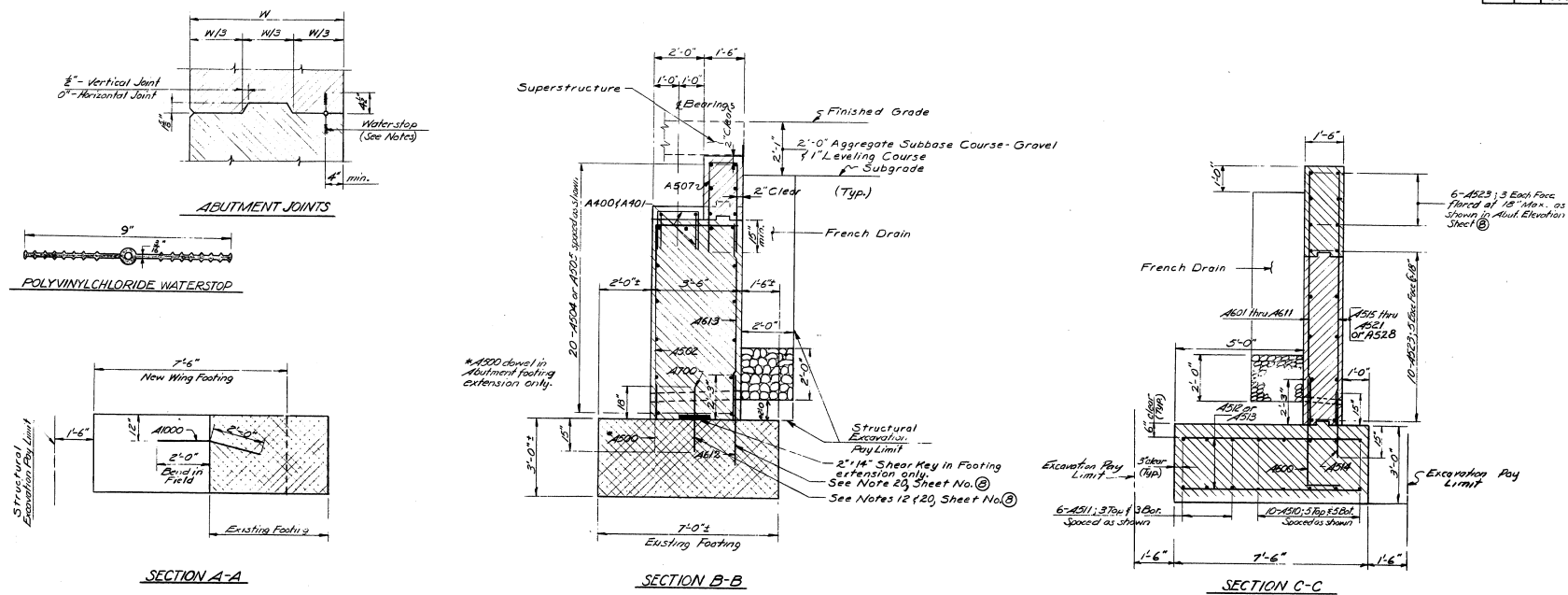
* As Built Replication 8/15/78

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
 OVER
THOROUGHFARE STREAM
 IN
T17 R5
AROSTOOK COUNTY
 X-SECTIONS

SHEET 2 OF 2 AUGUSTA, MAINE AUGUST 1971

150-114

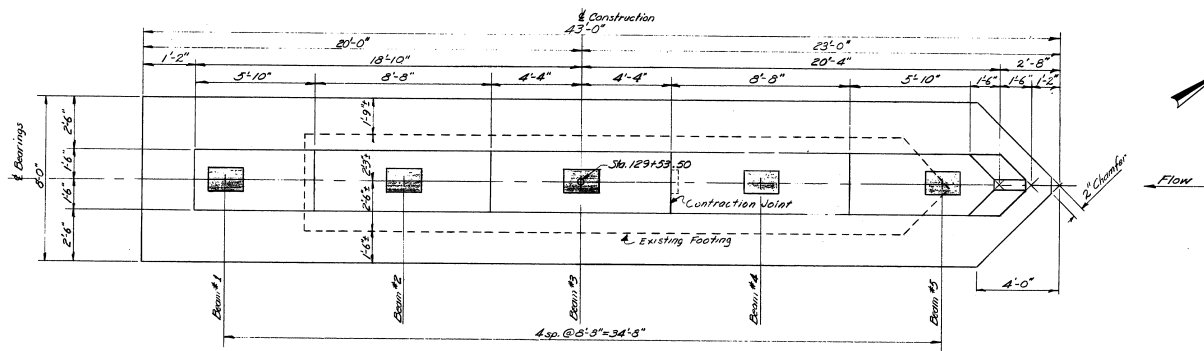
CONSTRUCTION



150-116

PLANS	DESIGN - DETAILED	BY	DATE
	CHECKED	PJM GRW	
	REVISIONS	NET	4-23
	FIELD CHANGES		

FORM NO.	DATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	1973	BR-55-03300	10	24

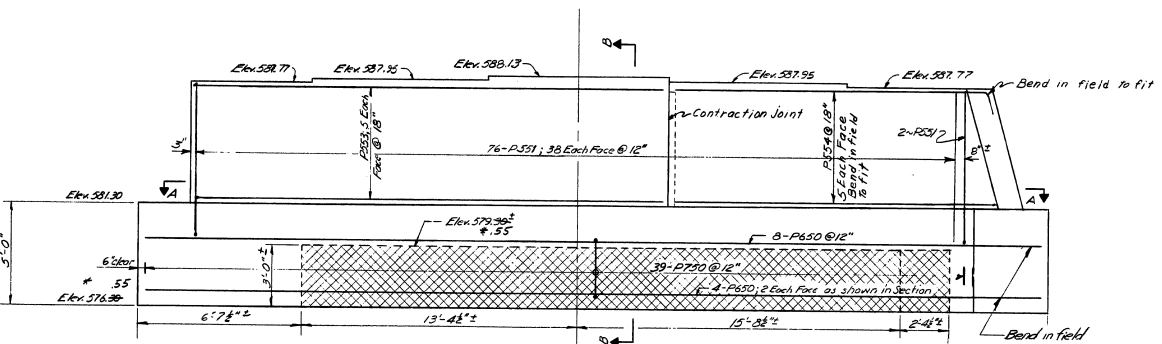


PLAN

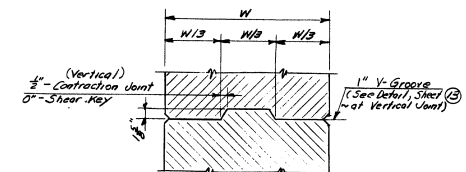
- GENERAL PIER NOTES**
1. Chamfer all exposed edges of concrete 4 inch unless otherwise indicated.
 2. Reinforcing steel shall have 3 inches minimum cover unless otherwise indicated.
 3. All reinforcing steel splices and embedments shall be a minimum of 36 bar diameters unless otherwise indicated.
 4. Maximum calculated footing pressure = 4 tons per square foot.
 5. Existing footing concrete that will be in contact with new concrete shall be cleaned in a manner approved by the Engineer. This work will be considered incidental to Contract Items.

DESIGN CRITERIA:

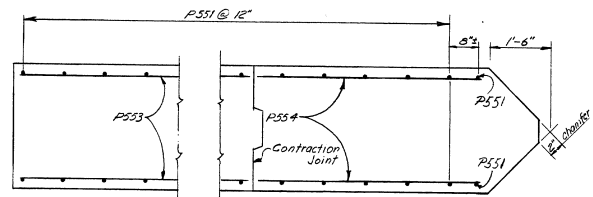
Critical AASHTO Loading - Group VIII.
Bridge: Water level assumed at Elev. 582.8
Streamflow: Velocity of 6.6 feet per second skewed at 15 degrees to longitudinal centerline of pier.
Wind: 40 psi skewed at 15 degrees.
Ice: 8 inches thick, producing 400 psi. Ice pressure skewed at 10 degrees to longitudinal centerline of pier, with water level at Elev. 582.8.



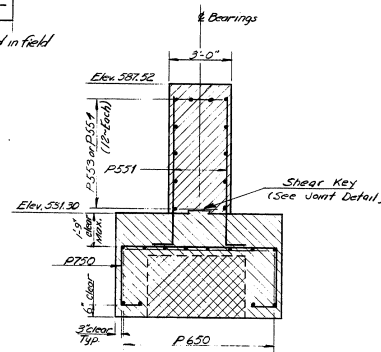
ELEVATION VIEW



JOINT DETAIL



SECTION A-A
At Top of Footing



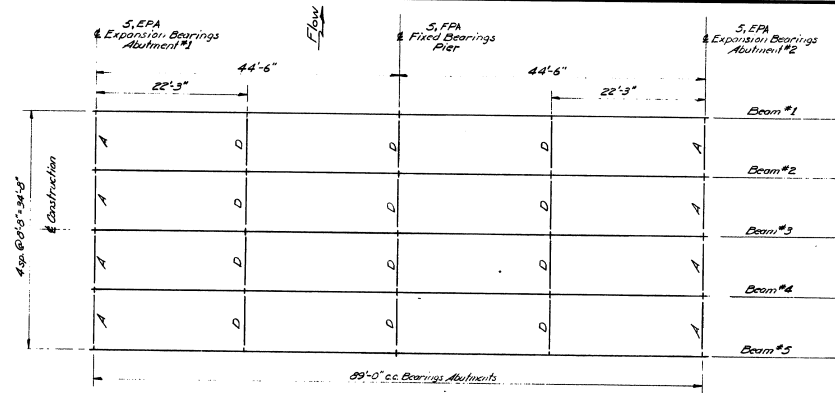
SECTION B-B

* As Built Perimeter 8/15/14

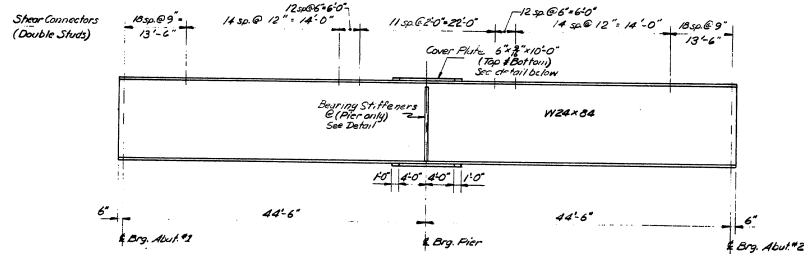
STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 THOROUGHFARE BRIDGE
 THOROUGHFARE STREAM
 IN
 T17 R5
 AROOSTOOK COUNTY
 PIER
 SHEET 10 OF 24 AUGUSTA, MAINE May 1973

150-117

DATE	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
10/1/72	MAINE	80-5-5-2385(9)	11	24

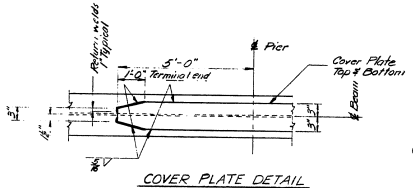


FRAMING PLAN

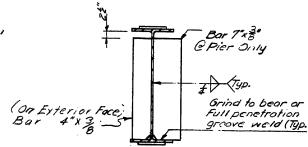


BEAM ELEVATION I thru 5

Note: Shear Connectors 1000 pieces (1000 pounds)

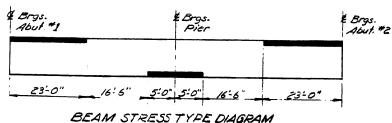


COVER PLATE DETAIL

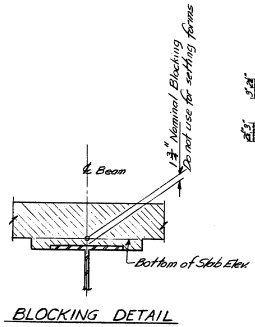


BEARING STIFFENERS

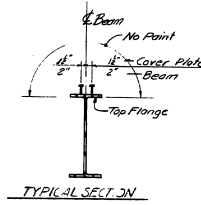
NOTE: Areas of the beam which will always be in compression, all other areas will be in tension, or areas which have stress reversals.



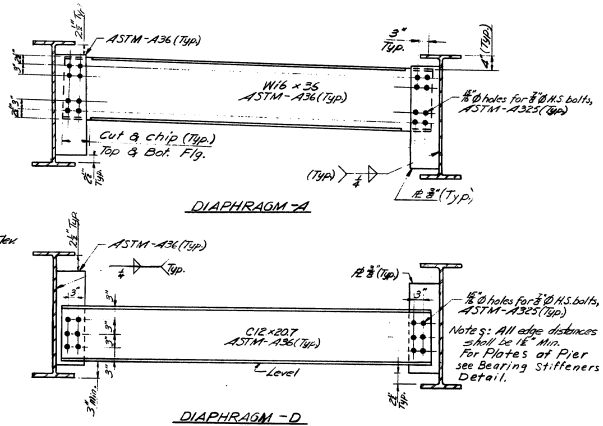
BEAM STRESS TYPE DIAGRAM



BLOCKING DETAIL



TYPICAL SECTION

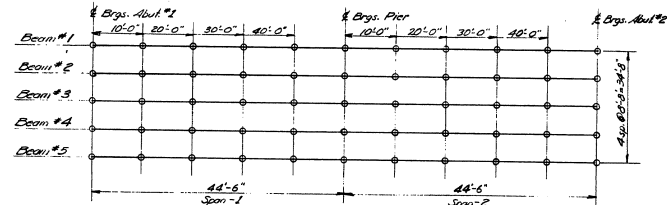


DIAPHRAGM A

DIAPHRAGM D

BOTTOM OF SLAB ELEVATIONS											
Beam No.	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'
Beam No. 1 & 5	590.31	590.35	590.36	590.34	590.31	590.31	590.32	590.35	590.36	590.33	590.31
Beam No. 2 & 4	590.49	590.53	590.54	590.52	590.49	590.49	590.50	590.53	590.54	590.51	590.49
Beam No. 3	590.67	590.71	590.72	590.70	590.67	590.67	590.68	590.71	590.72	590.69	590.67
Notes: dead load only (ft.)	.0000	.0189	.0521	.0324	.0042	.0000	.0187	.0465	.0495	.0200	.0000

Note: Bottom of slab elevations are adjusted to compensate for dead load deflections.



BLOCKING PLAN

STRUCTURAL STEEL NOTES

1. Place natural camber in up position.
2. Bearing stiffeners shall be placed after erection and dead loading of the structure.
3. Cross frame diaphragm construction bars may be either parallel or normal to the top flange.
4. No Bar 12 is required in the sole plates for the bearing stiffeners.
5. For Shear Connector details see shown see Bridge Standard BD104-7.
6. For Bearing Pedestals see Bridge Standards SD101-70.

A.B.W.H. Rep. 8/15/72

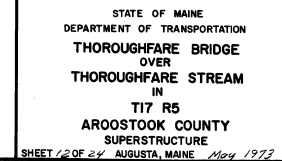
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T17 R5
AROOSTOOK COUNTY
STRUCTURAL STEEL

SHEET 11 OF 24 AUGUSTA, MAINE MAY 1972

150-118

DESIGN - DETAILED	DATE
10/1/72	10/1/72
CHECKED	DATE
10/1/72	10/1/72
REVISIONS	DATE
10/1/72	10/1/72
PLANS	DATE
10/1/72	10/1/72

PLANS	DESIGN - DETAILED	BY	DATE
	CHECKED	PJM	1-73
	REVISIONS	(PJM)	4-73
	FIELD CHANGES		

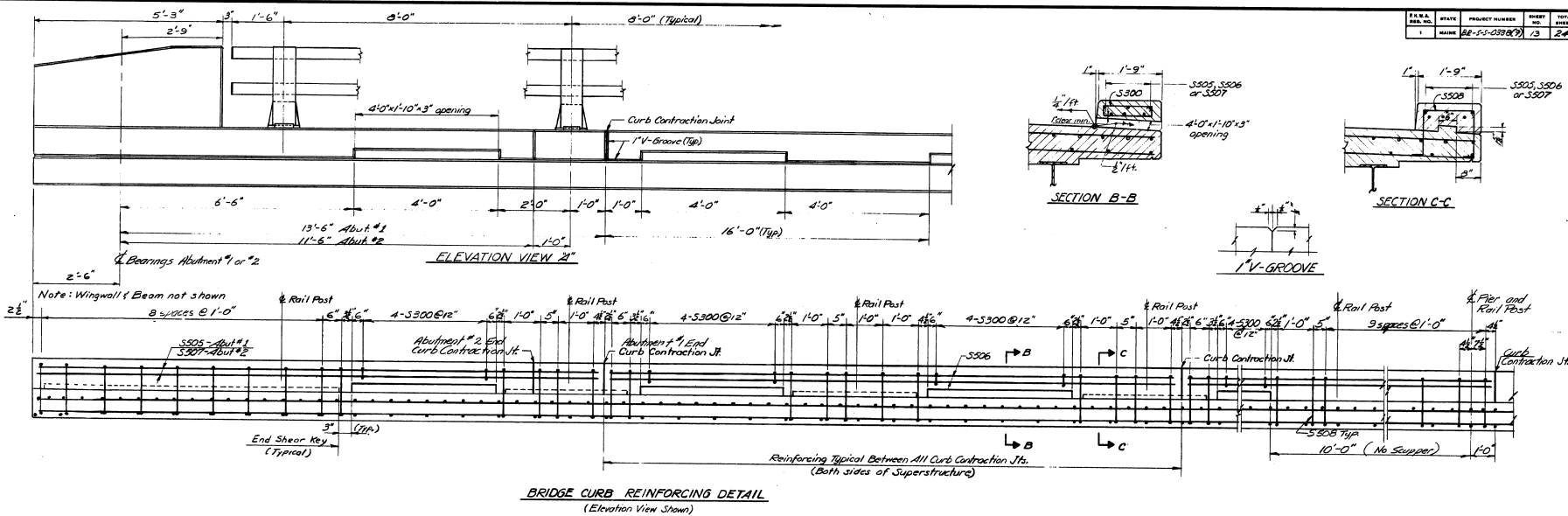


As Built Rpt 8/15/79

* Note: Return drip notch to Fosc19, 4°C ± from 4 Bearings (Tip)

150-119

SHEET NO.	DATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	28-13-038(7)	13	24



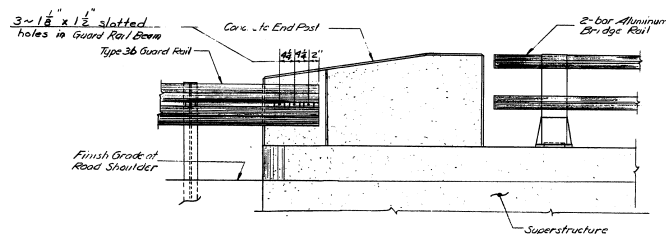
DESIGN: RETAILER	DATE
CHECKED	8/1/74
REVISED	8/1/74
FIELD SOURCE	8/1/74

As Built Per 8/15/74

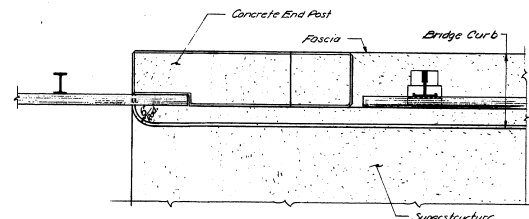
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T17 R5
AROOSTOOK COUNTY
SUPERSTRUCTURE DETAILS
SHEET 13 OF 24 AUGUSTA, MAINE May 1973

150-120

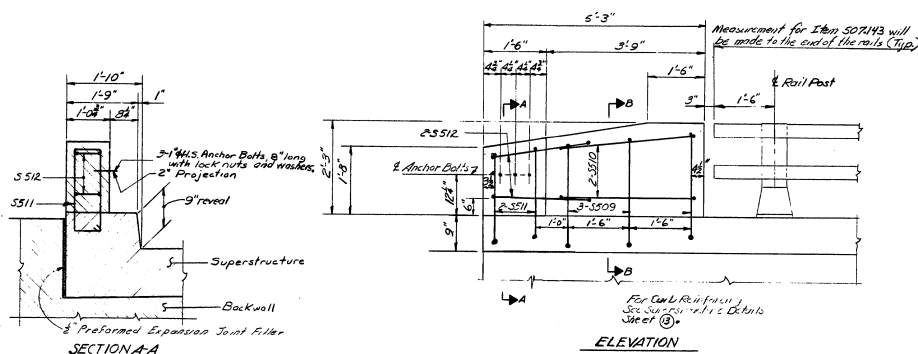
DATE	STATE	PROJECT NUMBER	SHEET	TOTAL
1	MAINE	88-2-5-0338(9)	14	24



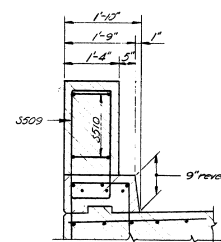
ELEVATION



PLAN



ELEVATION



SECTION B-B

NOTES:

1. For Type 30 Guard Rail Details not shown, see Highway Standards - August 1959 (Sheet 80) Sheet 80, 81, 82.
2. For 2-Bar Aluminum Bridge Rail, see Bridge Standards BD114-73 (Sheet 80).
3. General Alignment Notes No. 1 & 3 will apply to the portion of End Post on Deck.
4. General Superstructure Note No. 1, 4 (see sheet 14) will apply to the End Posts.
5. The volume of Concrete in the End Posts is included in the Estimated Volume for Item 502.26, "Structural Concrete, Roadway & Sidewalk Slabs on Steel Bridges."

As Built Pyp 8/15/74

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T17 R5
AROSTOOK COUNTY
END POST DETAILS

SHEET 14 OF 24 AUGUSTA, MAINE May 1973

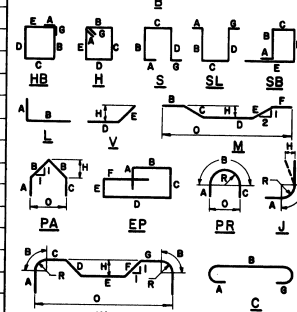
150-121

DATE	BY	REVISIONS
8/15/74	LG&K	1. AS BUILT
8/15/74	LG&K	2. FIELD CHANGE

PLANS

REINFORCING STEEL SCHEDULE																										
STRAIGHT BARS										BENT BARS																
MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	LOCATION	MARK	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	O	R	LOCATION
			ABUTMENTS				PIER				SUPERSTRUCTURE															
				P553	12	22'-8"	Shaft	5500	188	40'-4"	Slab (Trans)	A502	56	11'-2"	L	3'-2"	8'-0"									
				P554	12	16'-0"	Shaft	5502	150	30'-0"	Slab (Long.)	A507	56	8'-8"	S	-	3'-9"	1'-2"	3'-9"	-	-	-				
A500	12	2'-9"	Footng Dowels	P650	12	42'-0"	Footng	5503	75	37'-6"	Slab (Long.)	A524	8	4'-9"	S	-	1'-8"	1'-5"	1'-8"	-	-	-				
A504	40	15'-6"	Breast & Backwall					5504	28	20'-0"	Slab (over Pier)	A530	8	10'-8"	S	-	4'-9"	1'-2"	4'-9"	-	-	-				
A505	40	24'-0"	Breast & Backwell																							
								5506	60	15'-8"	Curb															
A508	20	6'-6"	Backwall					5507	12	13'-8"	Curb	A600	44	6'-9"	L	2'-0"	4'-9"									
A509	48	6'-6"	Breast & Backwall																							
A510	40	19'-6"	Wing Footng (Bed in Field)																							
A511	24	8'-4"	Wing Footng									A401	20	3'-4"	S	-	1'-3"	10"	1'-3"							
A512	72	7'-0"	Wing Footng									A400	20	4'-3"	S	-	1'-3"	1'-9"	1'-3"							
A513	96	4'-0"	Wing Footng																							
A514	36	2'-6"	Wing Dowels																							
A515	4	11'-2"	Wings																							
A516	4	10'-7"																								
A517	4	9'-11"																								
A518	4	9'-4"																								
A519	4	8'-8"										P551	78	8'-6"	L	1'-2"	7'-4"									
A520	4	8'-1"										P550	39	15'-0"	Y	1'-0"	2'-9"	7'-6"	2'-9"	-	-	1'-0"				
A521	4	7'-5"	Wings																							
A522	4	8'-4"	Breastwall																							
A523	64	10'-6"	Wing																							
A528	4	11'-10"	Wing																							
A601	4	11'-7"	Wings									5300	64	4'-0"	H	4	1'-5"	3	1'-5"	3	-	4				
A602	4	11'-2"																								
A603	4	10'-9"										5														

A diagram showing a stepped profile with points B, C, D1, E1, C, D2, C, E2 etc., C, F. Dimensions are labeled as D1, H, D2, D3 etc., and O.



All dimensions are out to out of reinf. bar

Bending details and hooks shall conform to the recommendations of ACI Standard 315-65.

Reinforcing Bar: ASTM A615 Grade 60

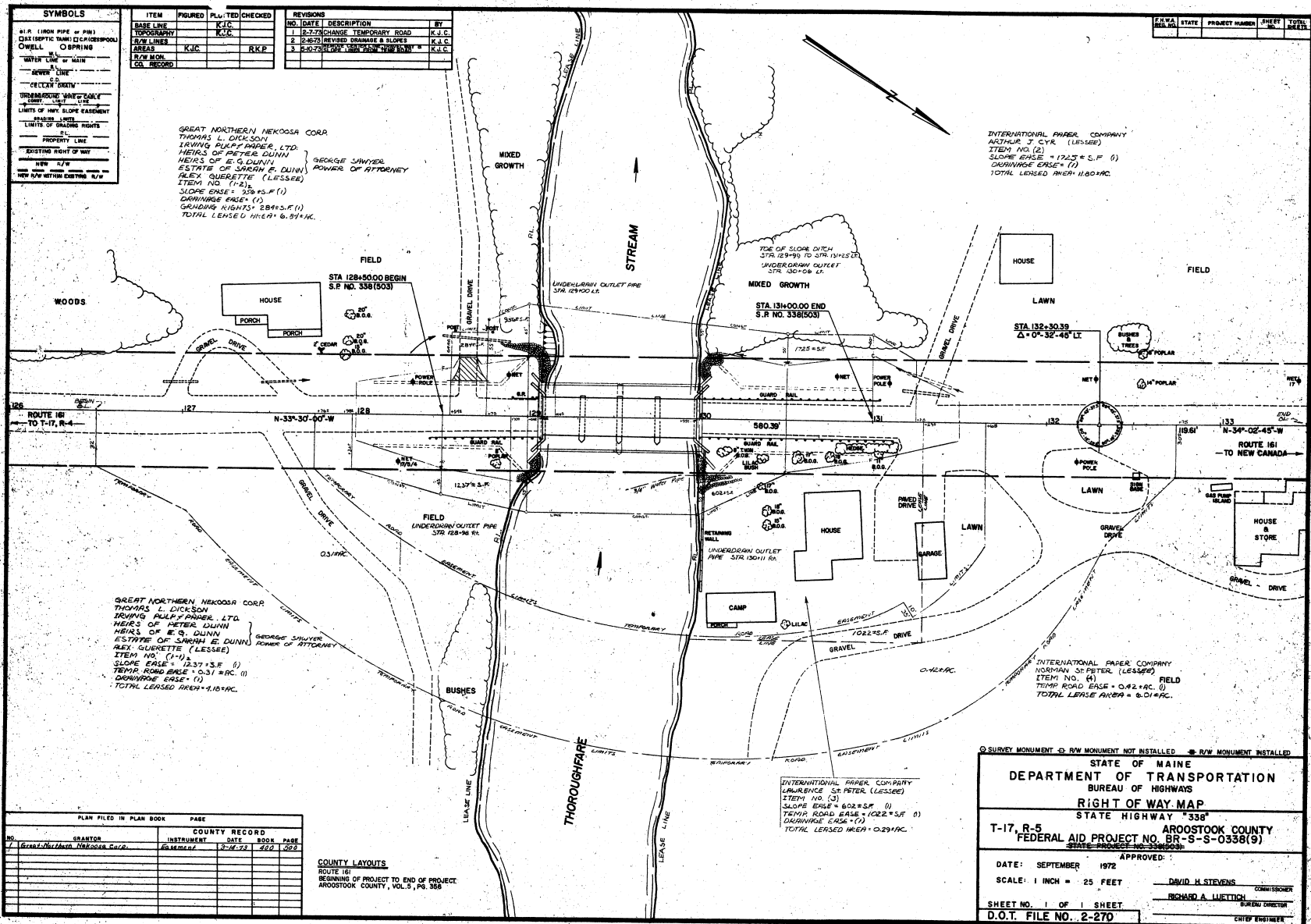
1. First digit(s) following the letter of the Mark indicates size of reinf. bar.
 Mark (A 502) bar size - #5
 Mark (P 1001) bar size - #10
 Mark (S 603) bar size - #6
2. Letter of Marks A, P & S locates bars of Abutments, Piers, and Superstructure parts respectively.

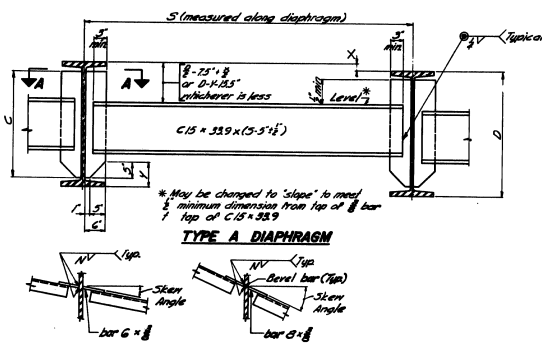
THOROUGHFARE BRIDGE
OVER
THOROUGHFARE STREAM
IN
T17 R5
AROSTOOK COUNTY
REINFORCING STEEL

SHEET 15 OF 24 AUGUSTA, MAINE May 1973

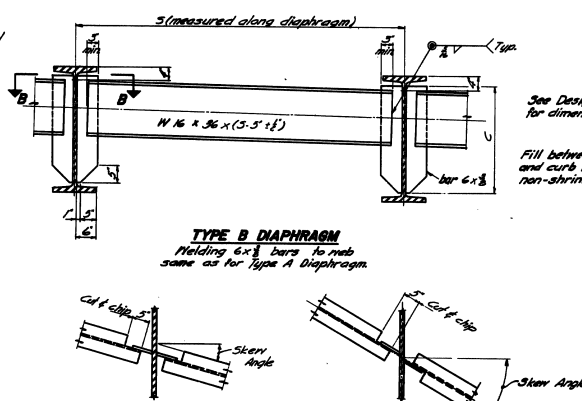
150-122

PLANS	DESIGN - DETAIL	BY	DATE
	CHECKED	PJM R/WL	3/73
	REVISIONS	PAK # NER	4-73
	FIELD CHANGES		



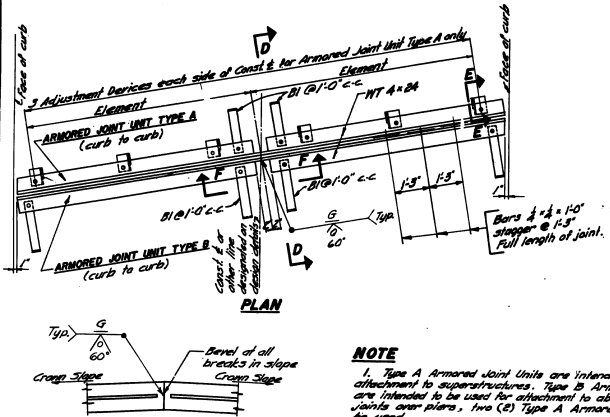


BEAM	C	N
W 8 x 0.64 to 0.64 in.	1.1"	1"
W 8 x 0.50 to 0.50 in.	2.4"	2"
W 8 x 0.40 to 0.40 in.	2.5"	2"
W 8 x 0.30 to 0.30 in.	2.7"	2"
W 8 x 0.20 to 0.20 in.	2.8"	2"



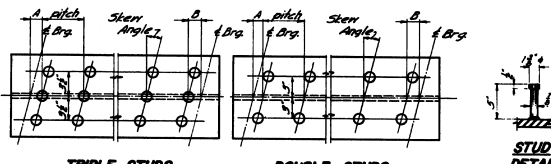
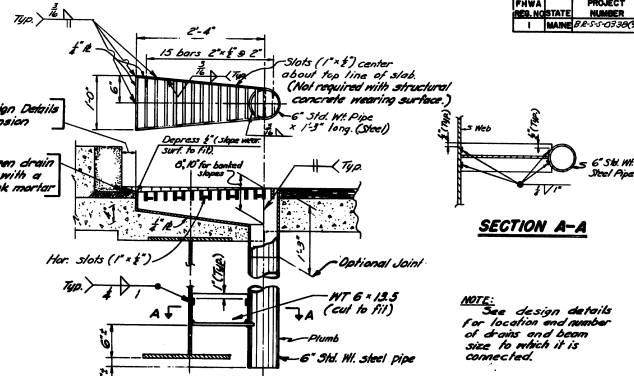
NOTE
See design details for diaphragm type, location and skew.

DIAPHRAGMS



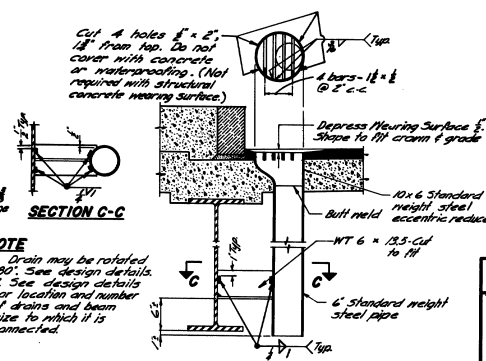
ARMORED JOINT

An armored joint consists of two armored joint units. See note 1.



NOTE
1. Studs shall be granular or solid Plus Filled and automatically and welded to the flange in the shop or field.
2. See the design details for Dimensions "A" & "B", stud pitch and skew angle for studs.

SHEAR CONNECTORS



DRAIN NO. 2

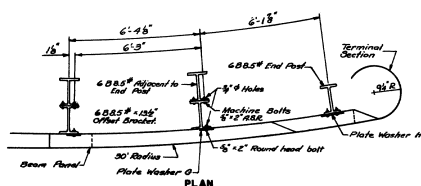
GENERAL NOTE
Use only those items called for on design details. In case of conflict between these Standard Details and the design details, the requirements of the design details shall be followed.
Drains to be incidental, see Section 502.20.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
AUGUSTA, MAINE

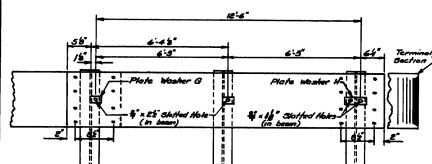
STANDARD DETAILS
(80 104-71)
DIAPHRAGMS, ARMORED JOINT,
SHEAR CONNECTORS, DRAIN

DECEMBER 1971

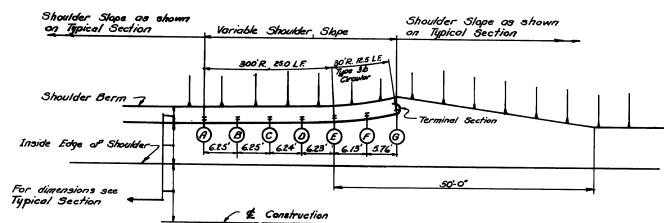
SHEET 19 OF 24
717-25 150-125



Notes:
Offset bracket shall be included
on all posts, except end post.



END BEAM ASSEMBLY-SPACING OF POSTS
GUARD RAIL TYPE 3b

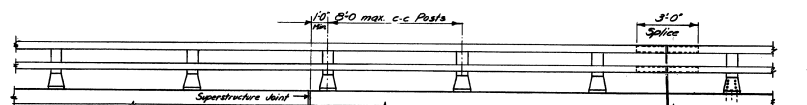


Notes:
Offset is feet from the normal
face of the Guard Rail.

Post	Offset
A	0.00'
B	0.06'
C	0.26'
D	0.59'
E	1.04'
F	2.00'
G	4.61'

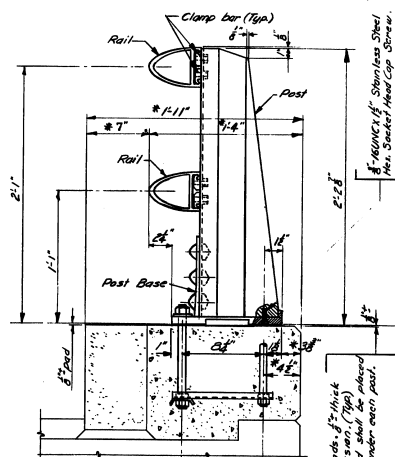
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
AUGUSTA, MAINE
STANDARD DETAILS
(80 110-89)
GUARD RAIL-TYPE 3b
(FLARED ENDS)

DESIGN - DETAILED	BY	DATE
CHECKED	BY	DATE
APPROVED	BY	DATE
FIELD CHANGES		
PLANS		



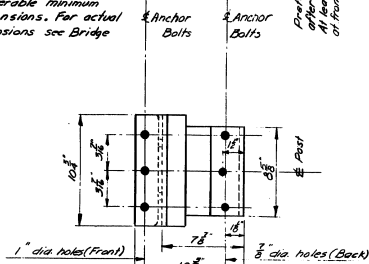
RAIL - ELEVATION

Lengths of rail shall be attached to a minimum of four (4) rail posts wherever possible, and in any case never less than two (2). Rail posts are to be set normal to grade unless otherwise shown on the Bridge Plans.

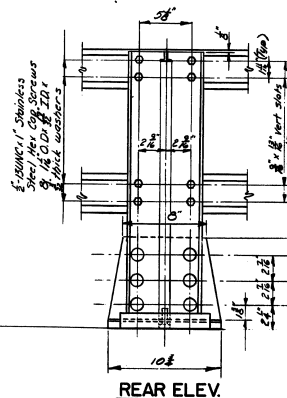


BRIDGE RAIL (Assembly)

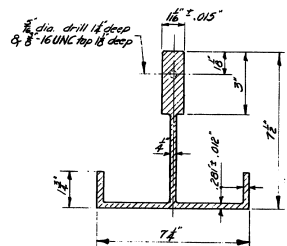
* Preferable minimum dimensions. For actual dimensions see Bridge Plan.



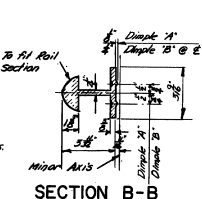
POST BASE (Bottom View)



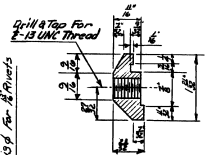
REAR ELEV



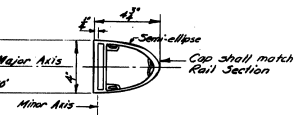
POST SECTION



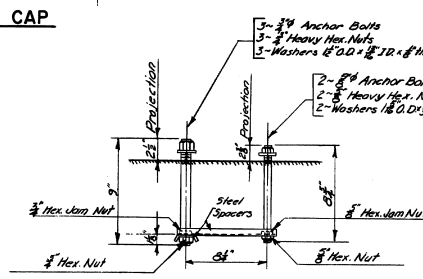
SECTION B-B



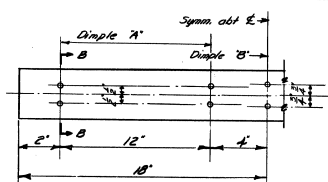
SECTION A-A



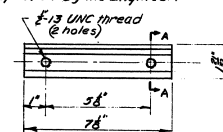
RAIL CAP



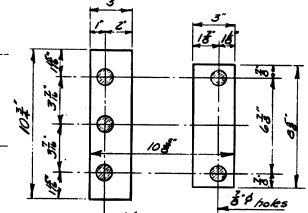
RAIL POST ANCHORAGE (Assembly)



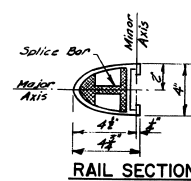
SPLICE BAR



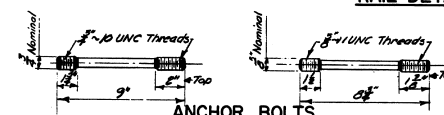
CLAMP BAR



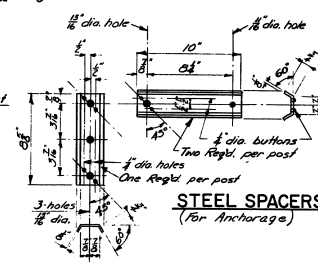
PREFORMED PADS



RAIL DETAIL



ANCHOR BOLTS



STEEL SPACERS (for Anchorage)

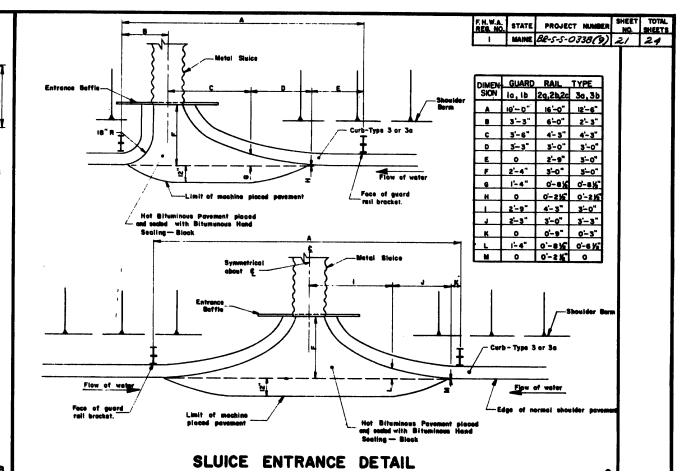
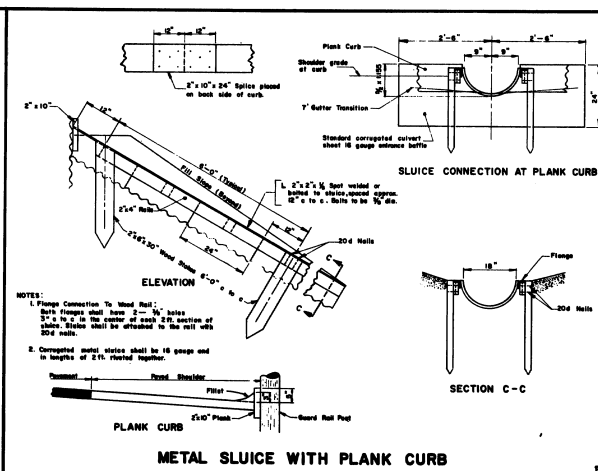
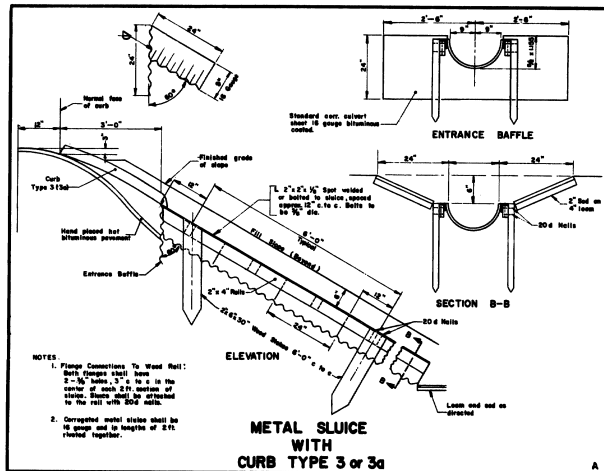
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
MAINE	BS-15-038(9)	20	24

DESIGN SPECIFICATIONS
AASHTO Standard Specifications for
Highway Bridges, 1969 and
Interim Specifications.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STANDARD DETAILS
(BD 114-73)
ALUMINUM RAILING
2-BAR (SEMI-ELLIPSE)
EXTRUDED POST

SHEET 20 OF 24 AUGUSTA, MAINE FEBRUARY 1973

117-25 150-179



CIRCULAR			
NOMINAL INSIDE DIAMETER	THICKNESS IN INCHES	CLASS	CLASS
	CCMP	CCCP	CEMENT PIPE
8 inch	.084	.080	RCP
10	.084	.080	
12	.084	.080	
14	.084	.080	
16	.084	.080	
18	.084	.080	
20	.084	.080	
24	.084	.080	
30	.079	.075	
36	.079	.075	
42	.109	.105	
48	.109	.105	
54	.109	.105	
60	.139	.135	
66	.139	.135	
72	.169	.164	
84	.169	.164	

PIPE ARCH			
NOMINAL SIZES	GAUGE	THICKNESS	CLASS
	CCMPA	CCCPA	
18" x 12" x 12"	16	.080	
24" x 18" x 18"	16	.080	
30" x 24" x 24"	16	.080	
36" x 30" x 30"	16	.080	
42" x 36" x 36"	16	.080	
48" x 42" x 42"	16	.080	
54" x 48" x 48"	16	.080	
60" x 54" x 54"	16	.080	
66" x 60" x 60"	16	.080	
72" x 66" x 66"	16	.080	

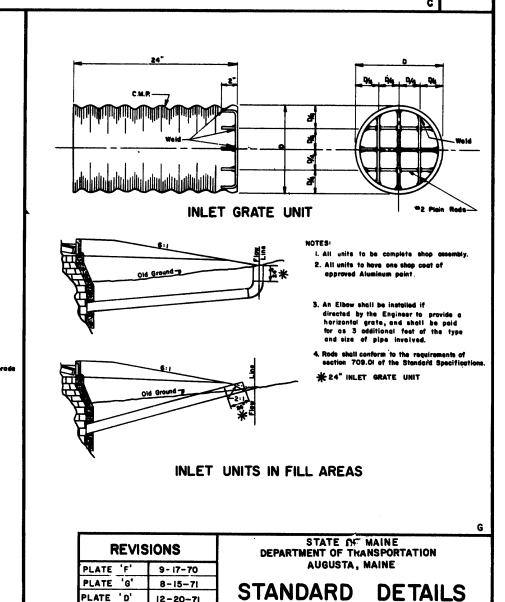
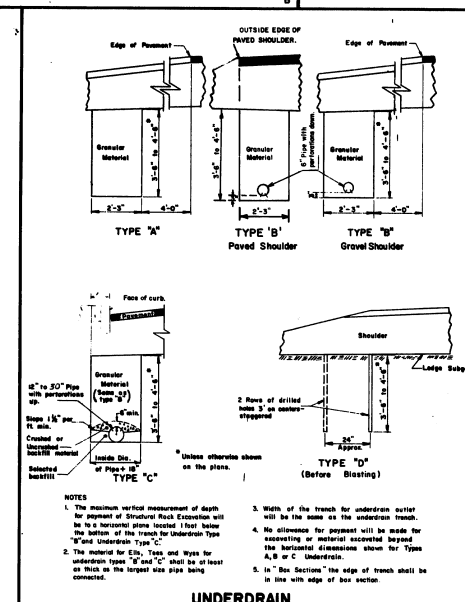
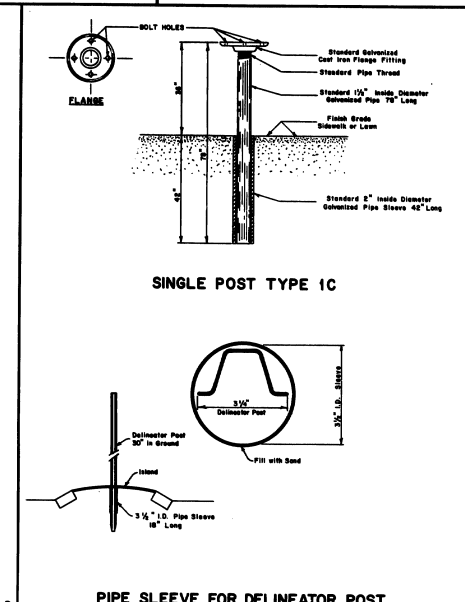
CCMP = Corrugated Metal Pipe
CCCP = Bituminous Coated Corrugated Metal Pipe
CCPA = Corrugated Aluminum Pipe

RCP = Reinforced Concrete Pipe

Allowable thicknesses followed by "A" indicate "Arch"
All RCP shall be class 30

Minimum thickness, class, and wall types for culvert pipe, unless otherwise specified.

CULVERT PIPE DATA



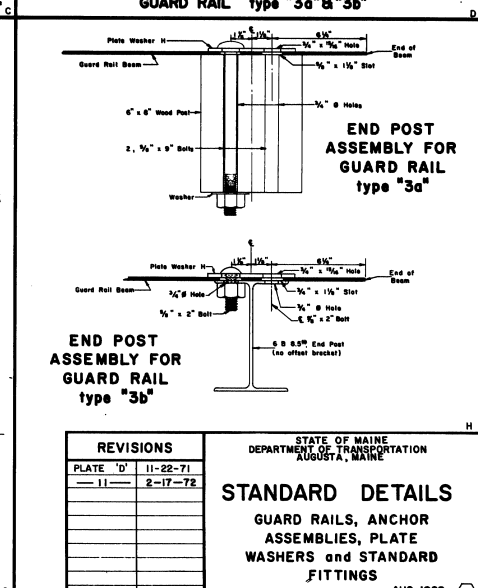
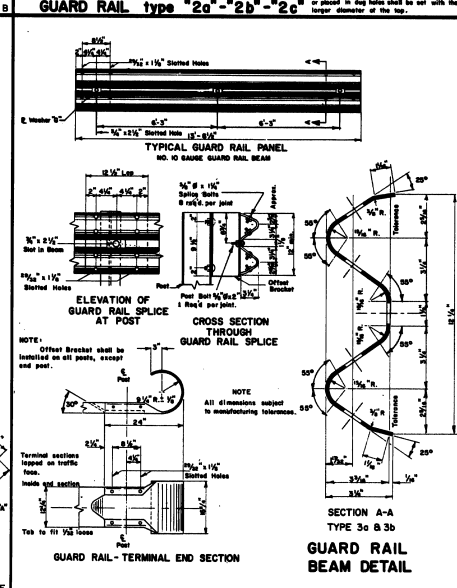
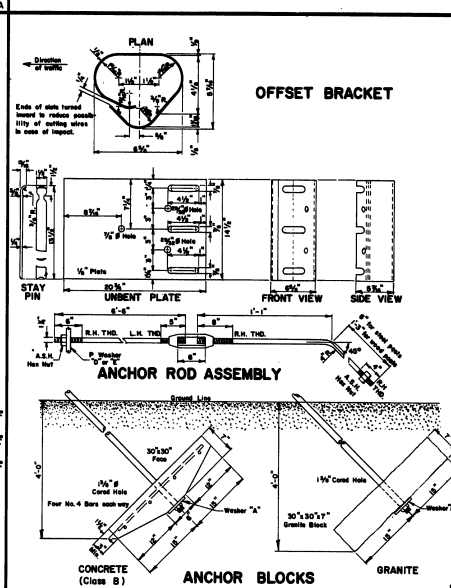
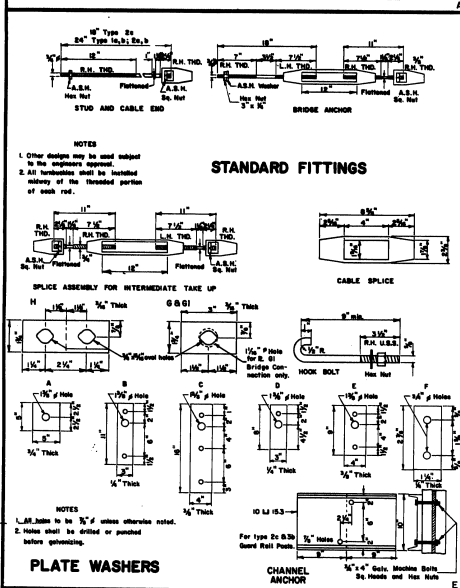
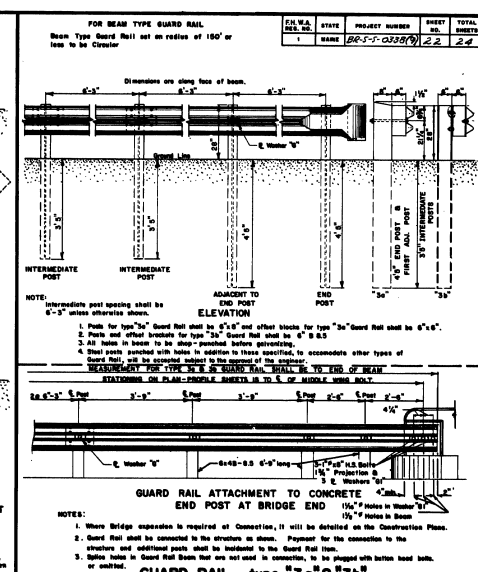
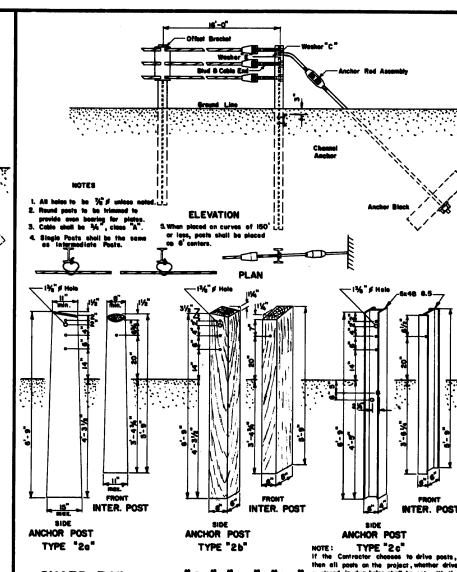
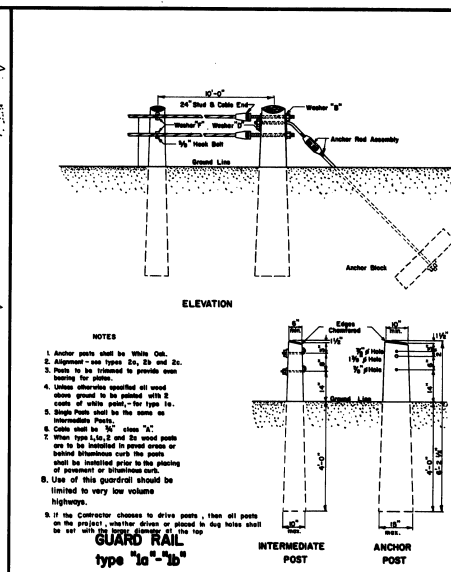
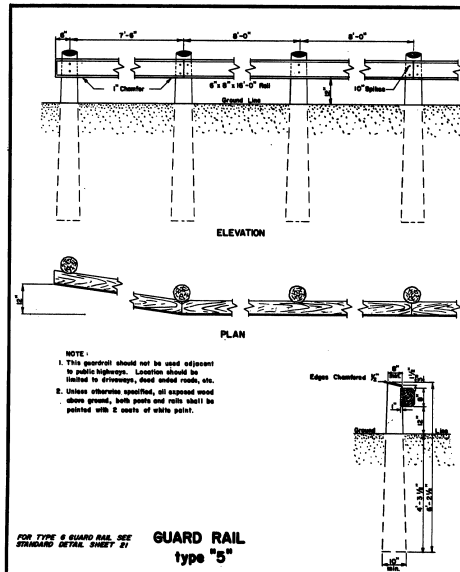
REVISIONS	
PLATE "F"	9-17-70
PLATE "G"	8-15-71
PLATE "D"	12-20-71

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
AUGUSTA, MAINE	
STANDARD DETAILS	
METAL SLUICE - UNDERDRAIN - CULVERT PIPE DATA	
CULVERT INLET GRATE	

SHEET 21 of 24

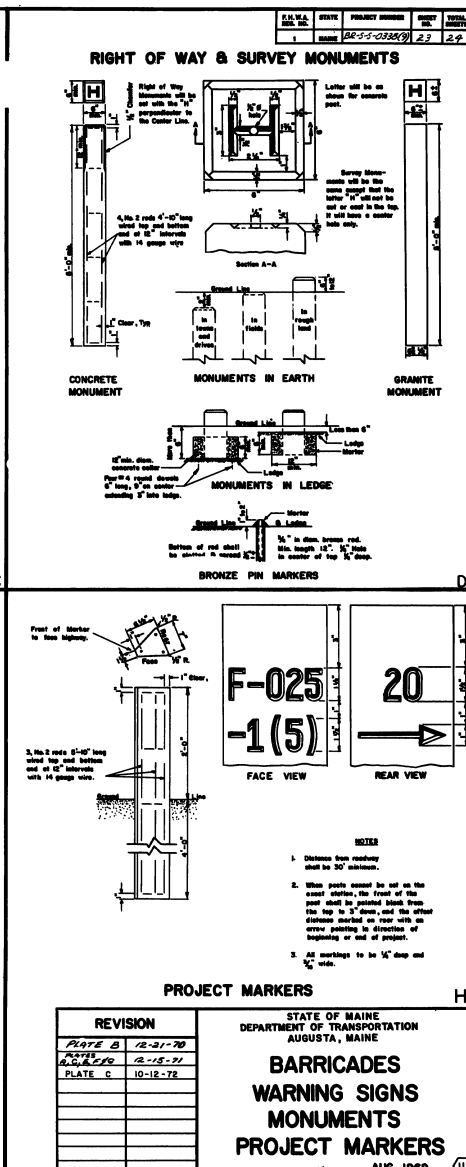
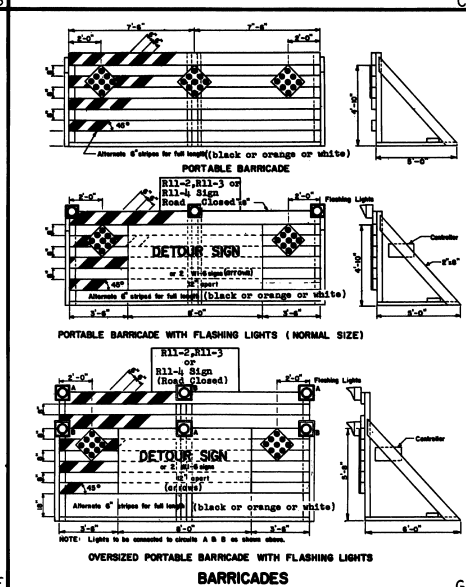
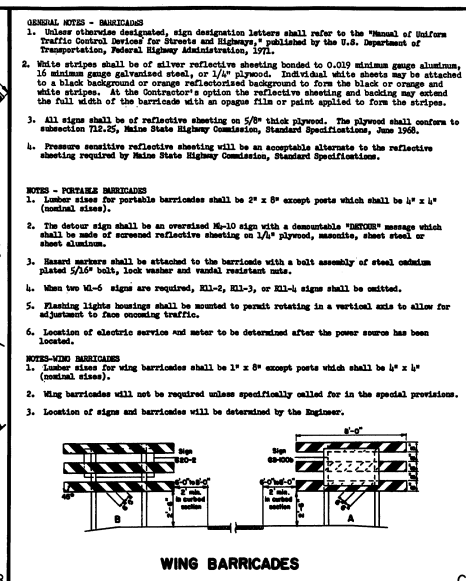
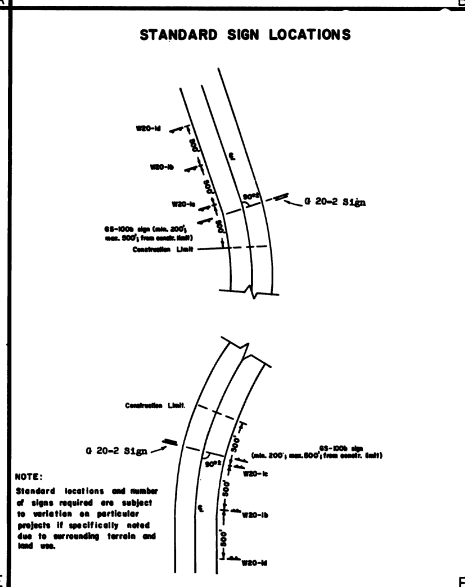
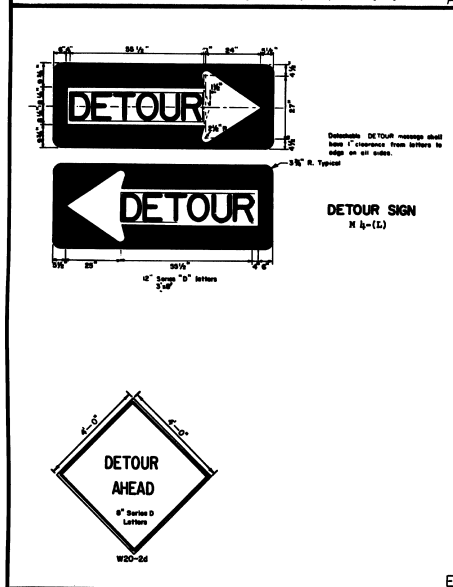
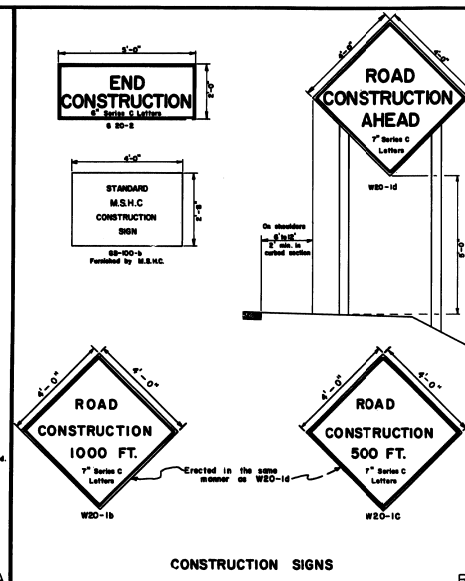
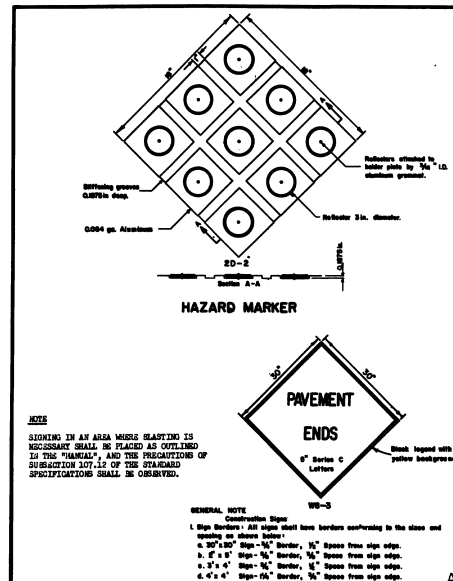
AUG. 1969

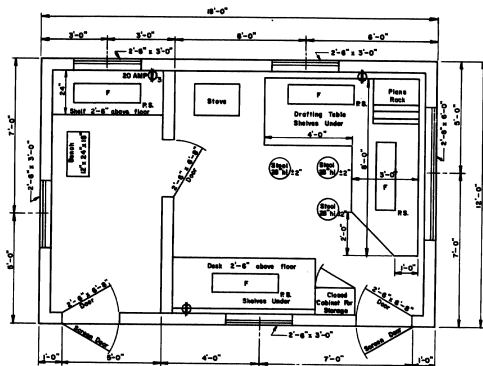
717-25 150-128



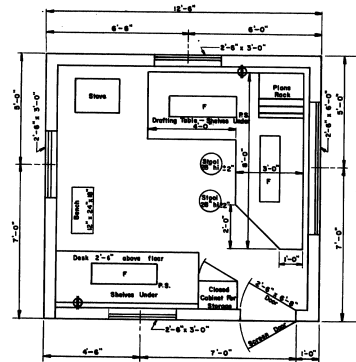
REVISIONS		STATE OF MAINE DEPARTMENT OF TRANSPORTATION AUGUSTA, MAINE	
PLATE "D"	11-22-71	STANDARD DETAILS GUARD RAILS, ANCHOR ASSEMBLIES, PLATE WASHERS AND STANDARD FITTINGS	
— 11 —	2-17-72		
		AUG. 1969	

177-25 150-129

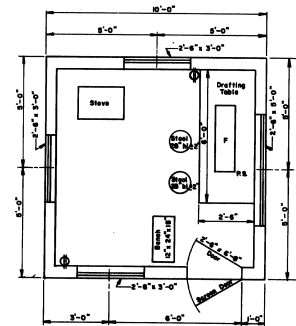




FLOOR PLAN
TYPE "A"



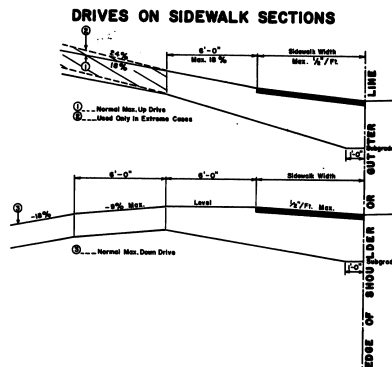
FLOOR PLAN
TYPE "B"



FLOOR PLAN
TYPE "C"

PLM.A.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
REG. NO.	MAINE	80-1-5-0350(5)	24	24

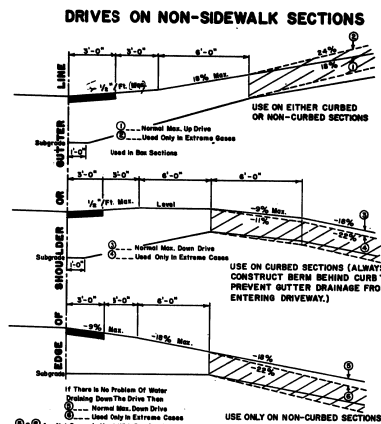
- GENERAL NOTES**
- Drafting table shall be 3'-0" high at front edge and placed 6" from shade to allow space to hang down behind table when in use.
 - Shades under desk shall be constructed to receive 11 1/2" x 16" x 25" transoms.
 - Windows shall be double hung.
 - Stovepipe shall not be in direct contact with combustible material; the pipe shall be surrounded with at least 6" of fireproof material.
 - Continuous 110 volt 60 cycle electric service shall be supplied.
 - The engineer may rearrange the items shown on the plan when during construction of the field office.
 - FURNISHINGS TO BE SUPPLIED:
 - Straight back chairs for types A and B
 - Round for types A, B & C
 - Stool for type A
 - Stools for types B & C
 - SYMBOLS:**
 - Fluorescent lights (2 light, rapid start 40" strips and 40 watt bulbs.)
 - Pool switch
 - Capitol wall outlet - 15 amp unless otherwise noted
 - Triplex Wall Outlet
 - For the Type "A" Field Office one class 55 gal. drum shall be supplied, installed on a suitable rack and equipped with a siphon suitable for drawing off water. The drum shall be furnished with water at all times.



- GENERAL NOTES**
- The sidewalk width shall be paved in all cases.
 - All residential or commercial drives over 10% to be paved.

NOTES ON MAXIMUM DRIVEWAY PROFILES

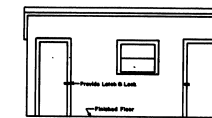
- These profiles are a guide for the majority of cases, but should be field checked when the main line grade is steep (4% to 6% or greater) or the angle of approach to the drive is unusual.
- Generally the majority of drives on a project will be built with flatter profiles than these maximum cases.
- When grading drives which are flatter than the maximum profiles the following rule of thumb should be used, do not exceed a grade % change of more than 9% in a 4 foot increment of driveway length. This applies to both up and down profiles.



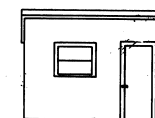
- GENERAL NOTES**
- The first 2' shown on present shall be paved only when abutting a paved area.
 - All residential or commercial drives over 10% to be paved.

NOTES ON MAXIMUM DRIVEWAY PROFILES

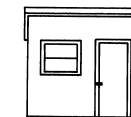
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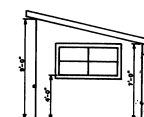
FRONT ELEVATION
TYPE "A"



FRONT ELEVATION
TYPE "B"



FRONT ELEVATION
TYPE "C"



SIDE ELEVATION
TYPES "A" "B" & "C"

REVISIONS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
AUGUSTA, MAINE
STANDARD DETAILS
DRIVEWAY DETAILS
FIELD OFFICES
TESTING LABORATORY

SHEET 24 OF 24 AUG. 1969

717-R5

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