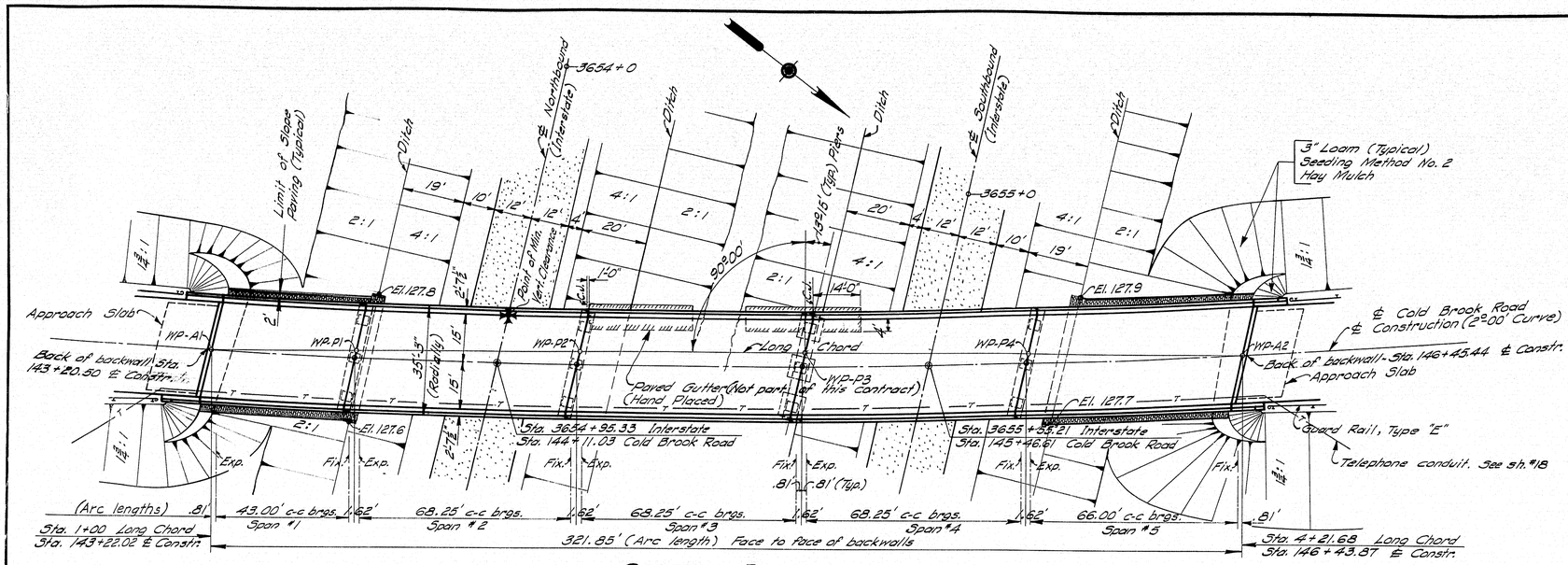
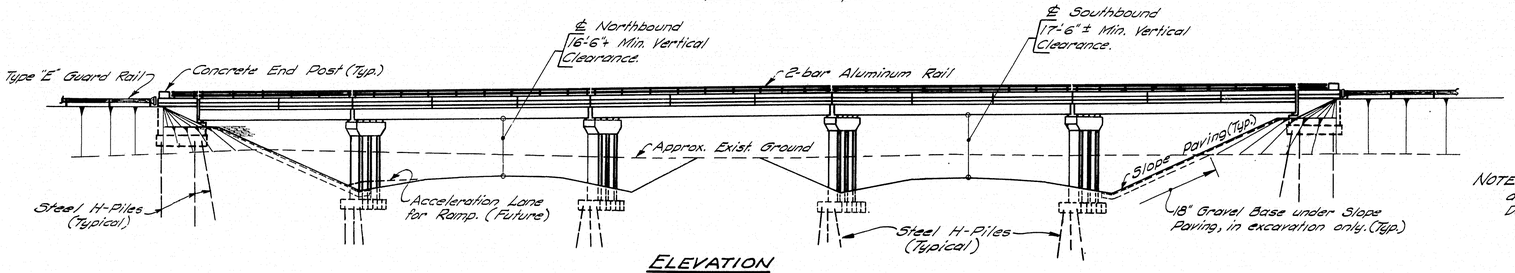
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	13	142



GENERAL PLAN

Scale ~ 1" = 20'

5 - Simple Composite Beam Spans



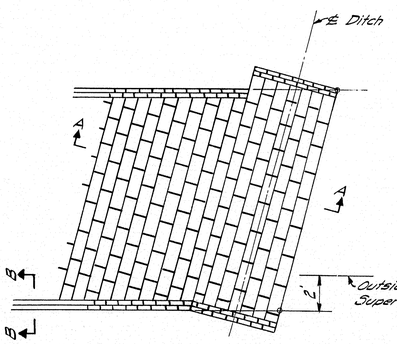
ELEVATION

Scale ~ Hor. & Vert. 1" = 20'

NOTE: Embankment adjacent to the abutments to be placed by Controlled Density Method.

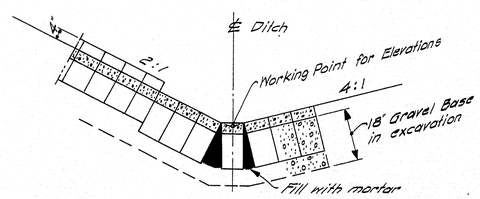
ESTIMATE OF BRIDGE QUANTITIES

ITEM	DESCRIPTION	QUANTITY
203-9	Earth Excavation	150 Cu. Yds.
204-14	Structural Earth Excavation— Piers	275 Cu. Yds.
205-9	Granular Borrow	1200 Cu. Yds.
302-7	Gravel Base Course— In Place Measurement	170 Cu. Yds.
404-28	Bituminous Concrete Surface Course, Type "A"	120 Tons
701-33	Portland Cem. Conc., Abuts. & Ret. Walls	154 Cu. Yds.
701-35	Portland Cement Concrete, Piers	259 Cu. Yds.
701-40	Portland Cem. Conc. Roadway & Sdwk. Slabs on Steel Br.	377 Cu. Yds.
701-47	Portland Cement	1185 Bbls.
702-103	Structural Steel, Fabricated & Delivered	346,500 Lbs.
702-104	Structural Steel, Erection	346,500 Lbs.
702-105	Structural Steel, Field Painting	346,500 Lbs.
703-9	Bronze or Copper — Alloy Bearing & Exp. Plts., Delivd	215 Lbs.
703-10	Bronze or Copper— Alloy Bearing & Exp. Plts., Placing	215 Lbs.
705-13	Reinforcing Steel, Delivered	108,000 Lbs
705-14	Reinforcing Steel, Placing	108,000 Lbs
705-17	Shear Connectors	L. S.
708-16	Steel H-Beam Piles 42 lbs./ft.	4642 Lin. Ft.
806-7	Aluminum Rail	665 Lin. Ft.
807-9	Membrane Waterproofing	1070 Sq. Yds
808-6	Slope Paving	500 Sq. Yds
901-21	Granite Bridge Curb	685 Lin. Ft.

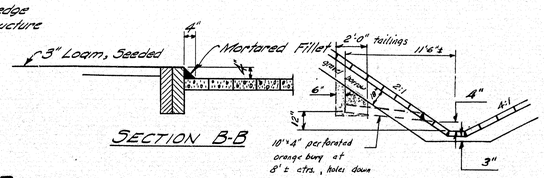


PLAN

The 18" Gravel Base under Slope Paving may be reduced or omitted, if in the opinion of the Engineer the existing material is suitable. Payment for excavation for Gravel Base under Slope Paving to be made under Item 203-9, Earth Excavation.



SECTION A-A



SECTION B-B

SLOPE PAVING

Concrete Blocks 8" x 16" x 4" (Grouted)

added both abutments Aug. '63
Mollicone

SPECIFICATIONS

DESIGN: A.A.S.H.O. Specifications for Highway Bridges 1957, and subsequent revisions.

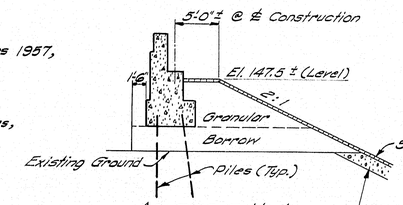
CONTRACT: State of Maine, State Highway Commission Standard Specifications for Highways & Bridges, Revision of January 1956 with supplements.

LOADING: H20-S16-44
Structural Steel ~ f_s = 18,000 p.s.i.

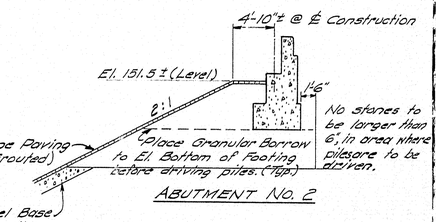
Concrete ~ f_s = 20,000 p.s.i. (Reinf. Steel)
f_c = 1200 p.s.i.
n = 10

CONCRETE CLASSIFICATION

All Concrete _____ Class "A"



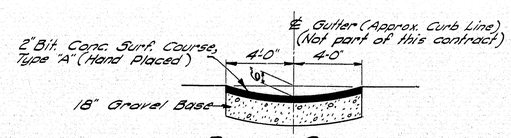
ABUTMENT No. 1



ABUTMENT No. 2

NORMAL SECTIONS

Perpendicular to abutments



PAVED GUTTER

Under Roadway Drains as indicated

DESIGN - M.C.R.
TR. DE + DET. - G.W.C.
CH. CK - T.H.K.

BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE

OVER

INTERSTATE 95

IN THE TOWN OF

HAMPDEN

PENOBSCOT COUNTY

GENERAL PLAN & ESTIMATE OF BRIDGE QUANTITIES

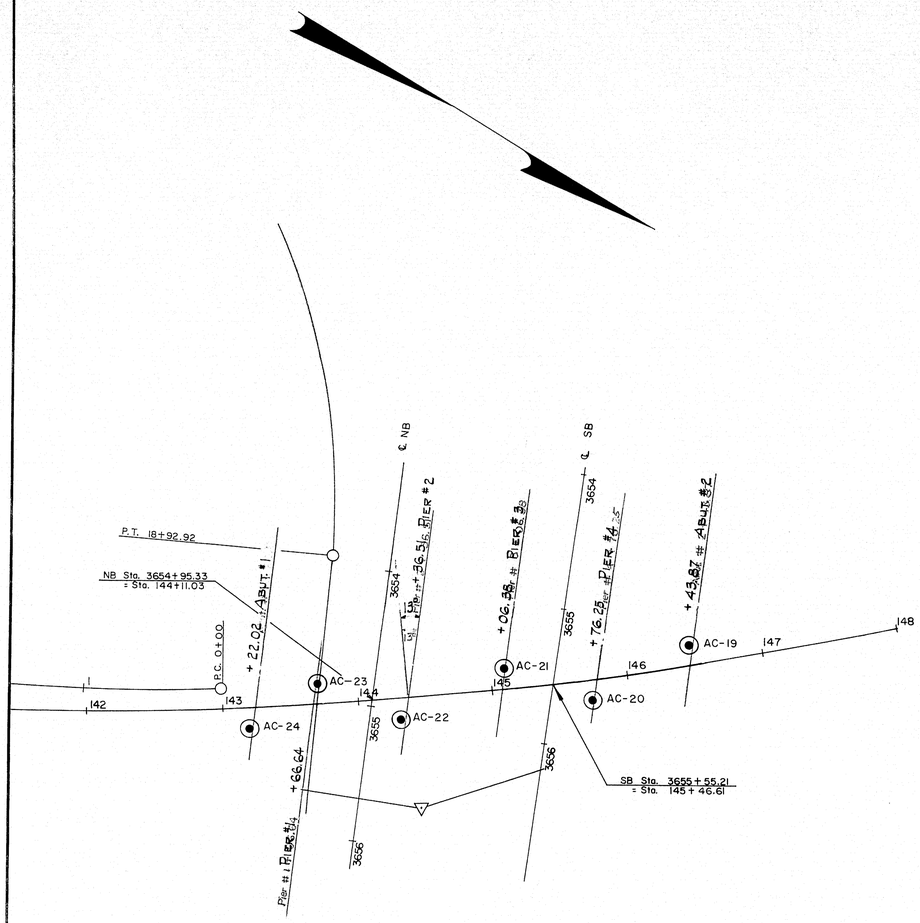
SHEET 1 OF 18 AUGUSTA, MAINE SEPT. 1961

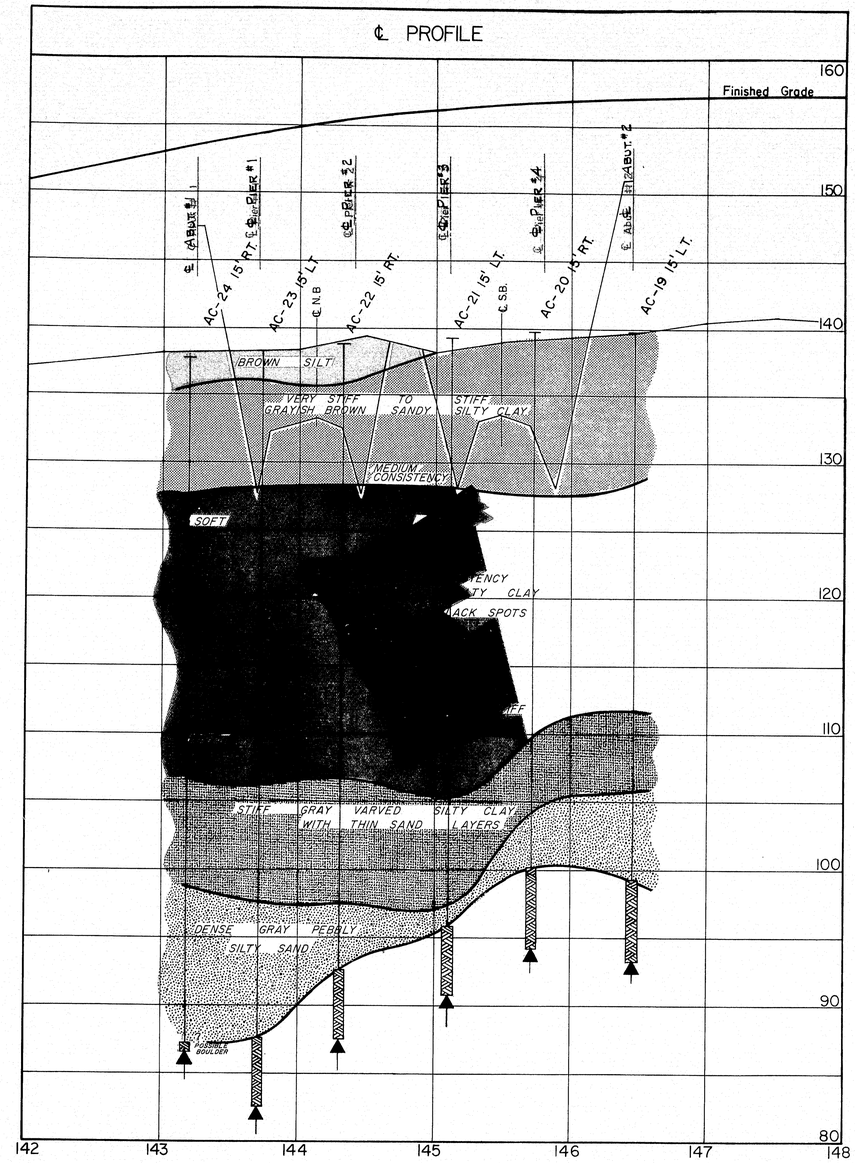
M-1813

C. H. CO., NO. 379 84687

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	14	142





Profile Scale
Horiz. 1" = 50'
Vert. 1" = 5'

DESIGN– TRACE– CHECK– } Soils Division

BRIDGE NO. SURVEY– F. Boyce PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE

IN THE TOWN OF

HAMPDEN

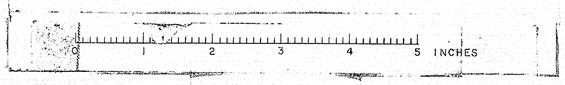
PENOBSCOT COUNTY

FOUNDATION SURVEY

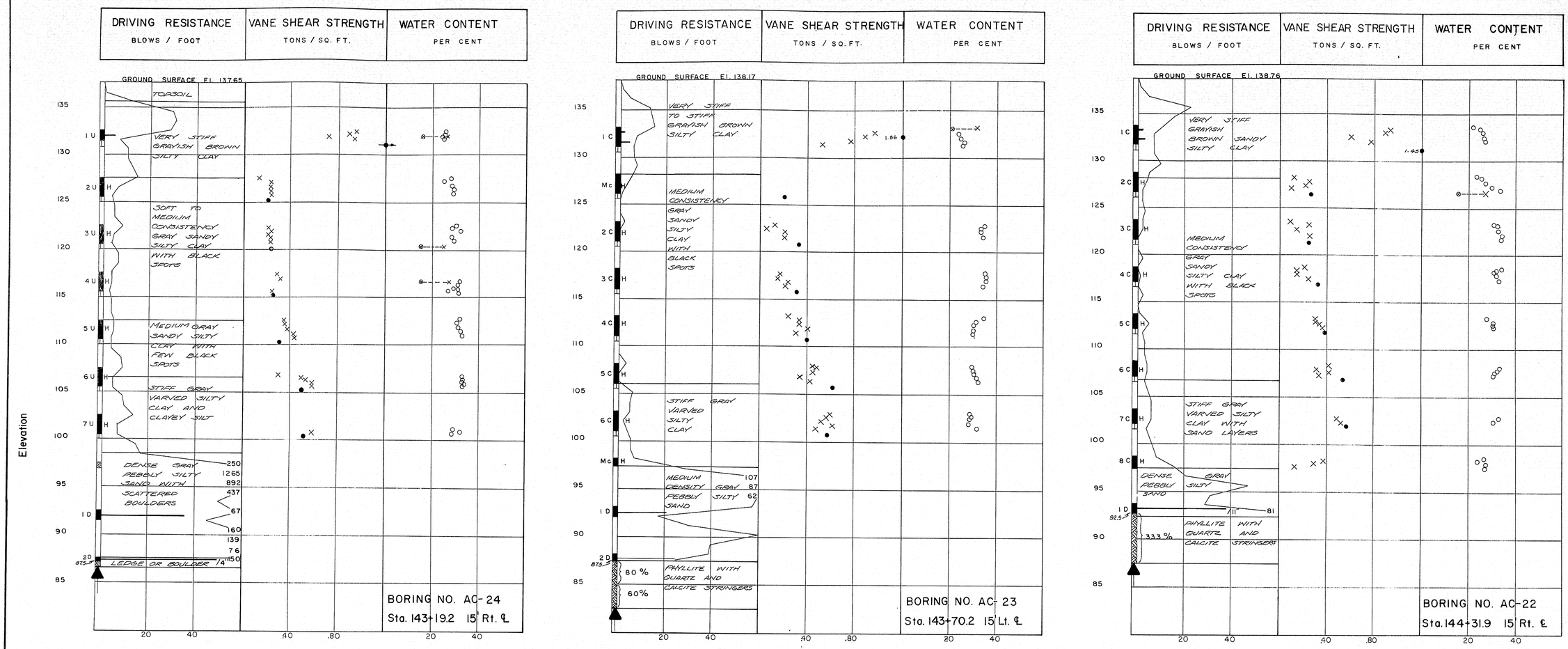
SHEET 2 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1814

K+E 188 IMPERIAL TRACING CLOTH 13 X 16 D. L. M. INC. 42071



		I95-7(16)	15	142



BORING NOTES

- ALL SAMPLE AND VANES ARE MADE AHEAD OF CASING
- NUMBER OF BLOWS REQUIRED TO DRIVE EXTRA HEAVY CASING ONE FOOT WITH 400 FT. LBS. OF ENERGY PER BLOW
- LOCATION OF SAMPLE OR SAMPLE ATTEMPT
- NUMBER AND TYPE OF DRY SAMPLE
  - 1D S & H SAMPLER NO. 1290's
  - 1C 2" O.D. 16 GA. SEAMLESS TUBING
  - 1U 3 1/2" O.D. 16 GA. SEAMLESS TUBING
- M_D UNSUCCESSFUL SAMPLE ATTEMPT AND TYPE OF SAMPLER
- NUMBER OF BLOWS REQUIRED TO DRIVE SPOON OR TUBING ONE FOOT WITH 350 FT. LBS. OF ENERGY PER BLOW
- H SAMPLING SPOON OR TUBE DRIVEN BY STATIC WEIGHT OF DRILL RODS AND HAMMER
- FIELD VANE TEST
- BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
- 71% LOCATIONS CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK

SHEAR NOTES

- ● FIELD VANE SHEAR STRENGTHS
- × LABORATORY VANE SHEAR STRENGTHS
- → SHEAR STRENGTHS IN EXCESS OF EQUIPMENT
- ○ ONE HALF UNCONFINED COMPRESSIVE STRENGTHS

WATER CONTENT NOTES

- ○ NATURAL WATER CONTENTS, GIVEN AS PER CENT OF DRY WEIGHT
- ⊗---× PLASTIC AND LIQUID LIMITS

Soils Division	F. Boyce

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE

IN THE TOWN OF

HAMPDEN

PENOBSCOT COUNTY

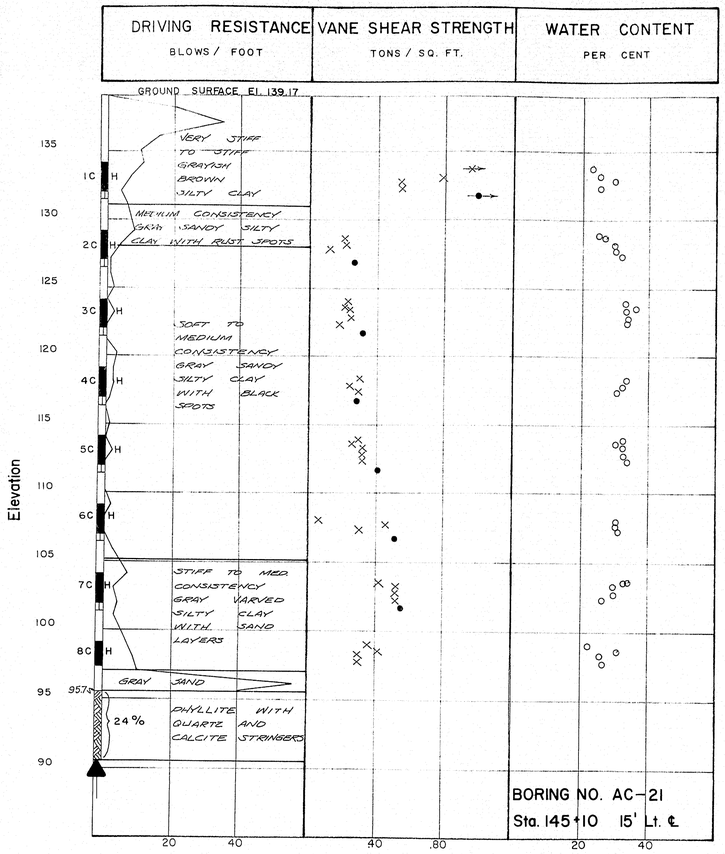
BORING DETAILS

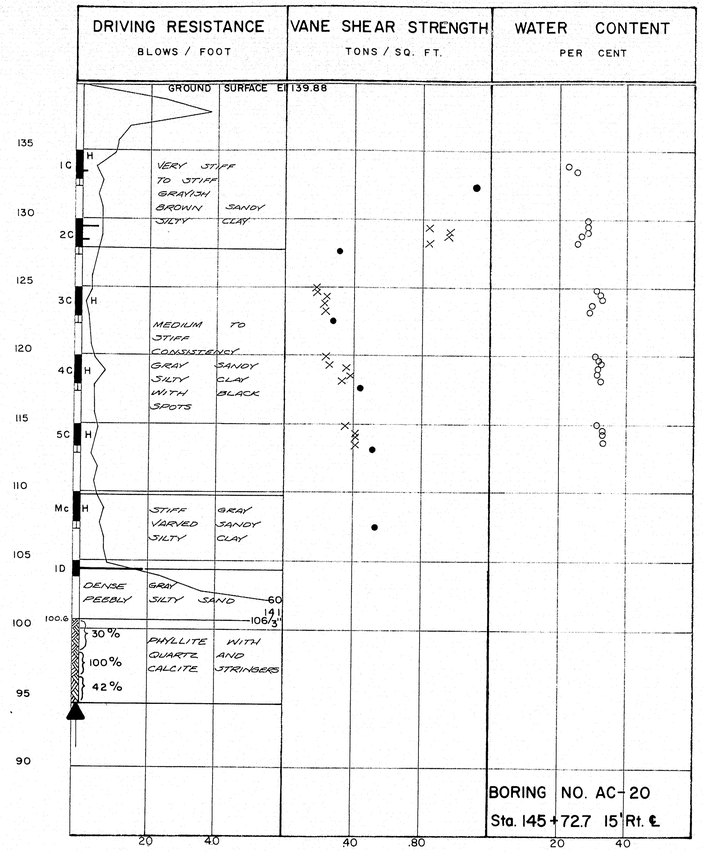
SHEET 3 OF 18 AUGUSTA, MAINE SEPT. 1961

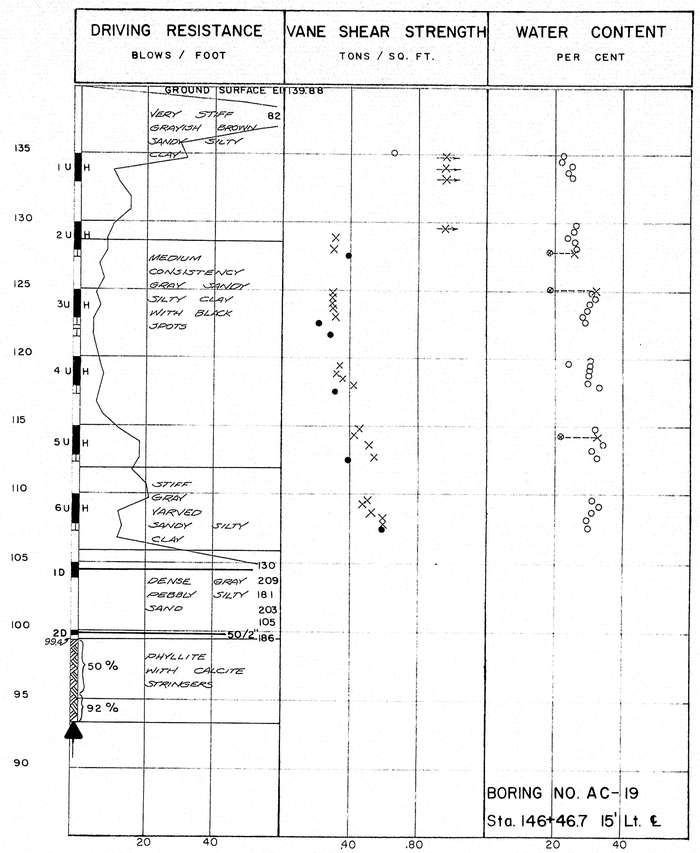
M-1815

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	16	142







Soils Division	F. Boyce

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE

IN THE TOWN OF

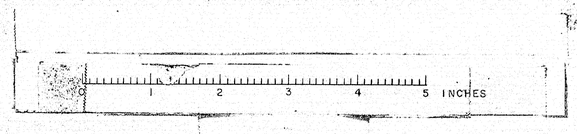
HAMPDEN

PENOBSCOT COUNTY

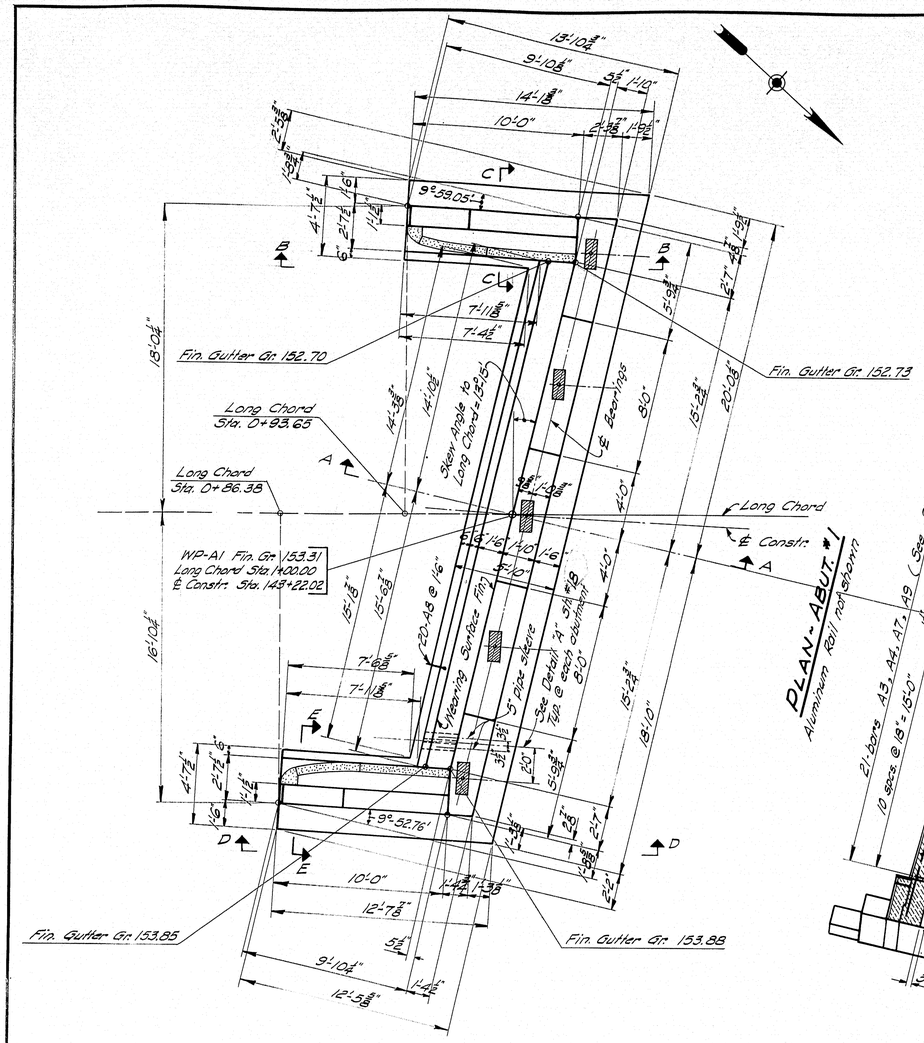
BORING DETAILS

SHEET 4 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1816

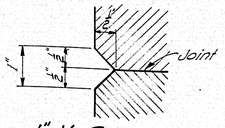


B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16	17	142

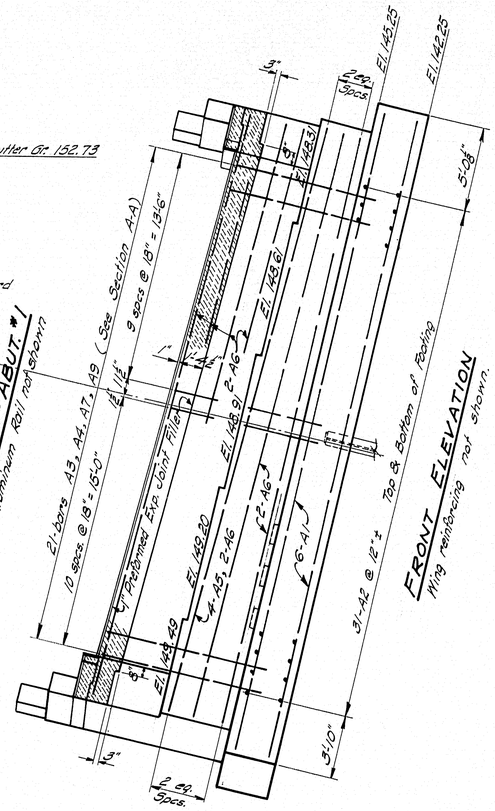


PLAN-ABUT. #1

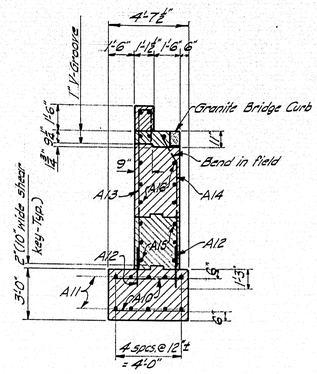
Aluminum Rail not shown



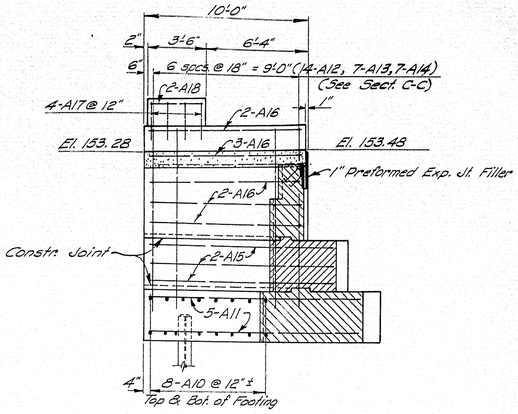
1" V-GROOVE



FRONT ELEVATION

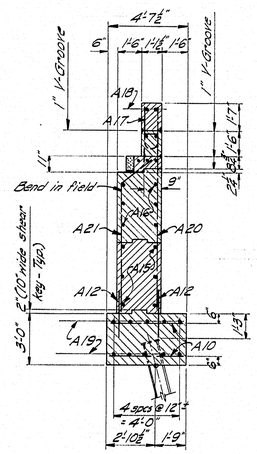


SECTION C-C

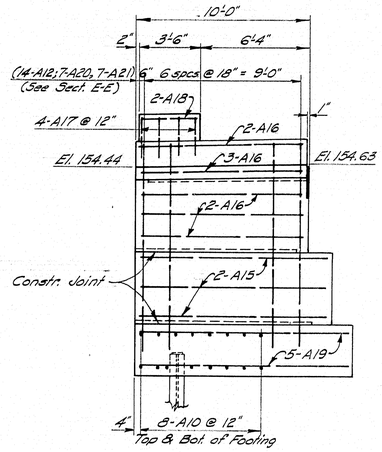


SECTION B-B

Wing reinforcing only shown.



SECTION E-E

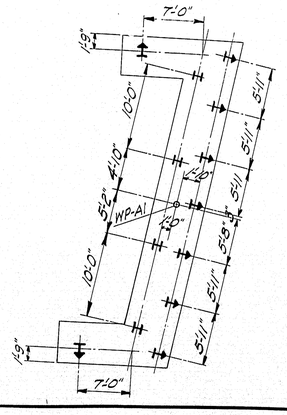


VIEW D-D

Wing reinforcing only shown

GENERAL NOTES

1. 2" clear to reinforcing except as noted.
2. Dress shaded bearing areas on bridge seats, 1" larger all around than masonry plates and to exact elevations shown.
3. Aluminum Bridge Rail not shown.
4. References:
   - a. Aluminum Rail _____ Sh. #16
   - b. Reinforcing Steel _____ Sh. #17
   - c. Granite Curb Detail _____ Sh. #16
   - d. Expansion Dam Detail _____ Sh. #16
   - e. Fill at Abutments _____ Sh. #1
   - f. Bearing Layout _____ Sh. #8
5. Preformed Expansion Joint Filler, as referred to in these plans, shall be non-bituminous type.



PILE PLAN

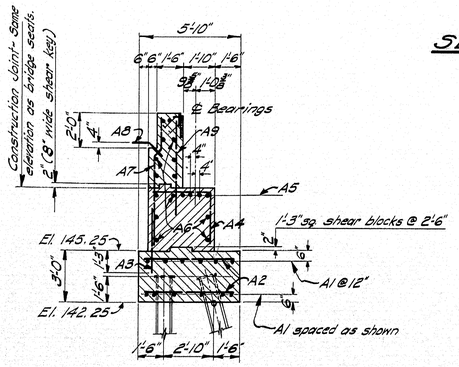
All Piles to be 10 BP 42, Fitted with pile caps as detailed on sheet #7

Drive piles to ledge or practical refusal.

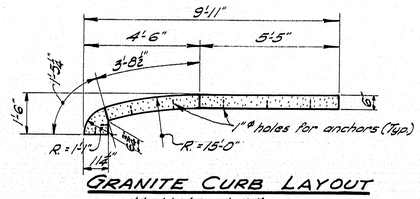
Maximum Pile Load = 33 tons per pile.

Batter piles indicated thus, "↦" 3" per foot in direction of arrow. All others plumb.

13 piles required; Estimated Length, 65 Feet.



SECTION A-A



GRANITE CURB LAYOUT

At Abutment Wings
2 - Required as shown
2 - Required opp. hand

NOTE: Payment for Circular Granite Bridge Curb to be made under Item 901-21, Granite Bridge Curb.

DESIGN- M.C.R.
TRACE- G.M.C.
CHECK- C.O.H.
PLOT-

BRIDGE NO.
SURVEY-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE

OVER

INTERSTATE 95

IN THE TOWN OF

HAMPDEN

PENOBSCOT COUNTY

ABUTMENT NO. 1

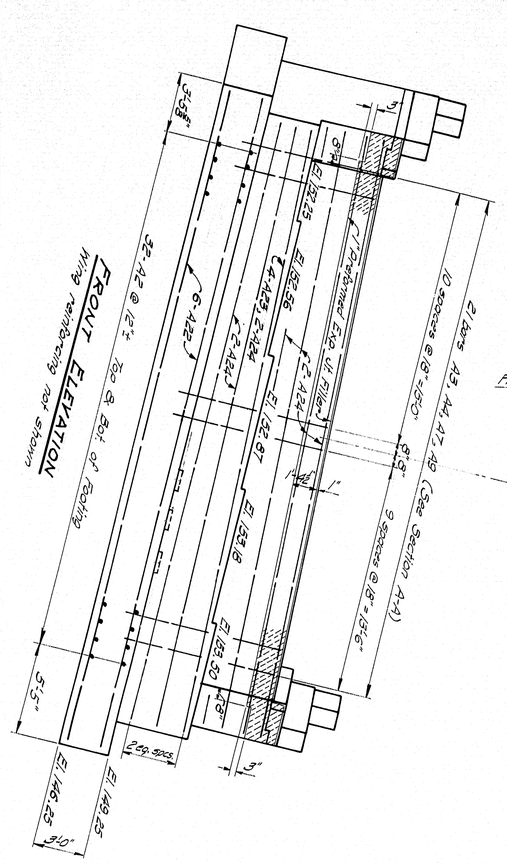
SHEET 5 OF 18 AUGUSTA, MAINE SEPT. 1961

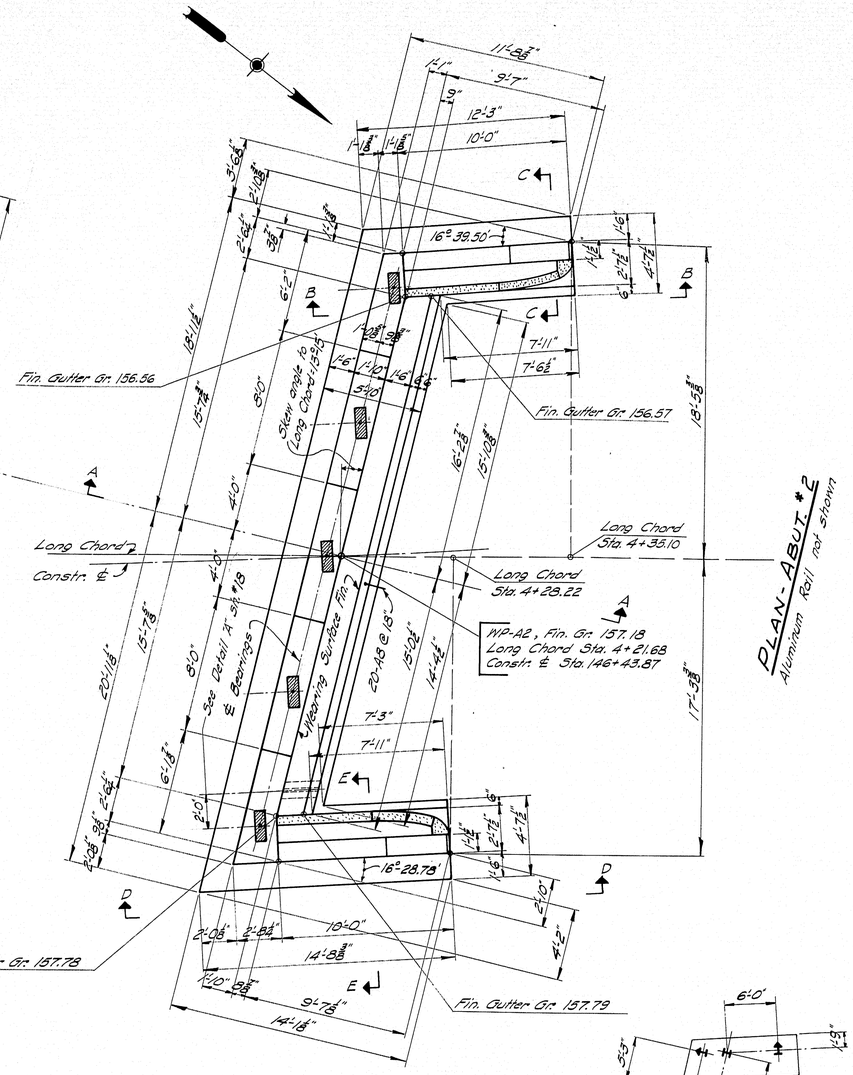
M-1817

K+E 186 IMPERIAL TRACING CLOTH 5 x 4. D. L. M. INC. 87071

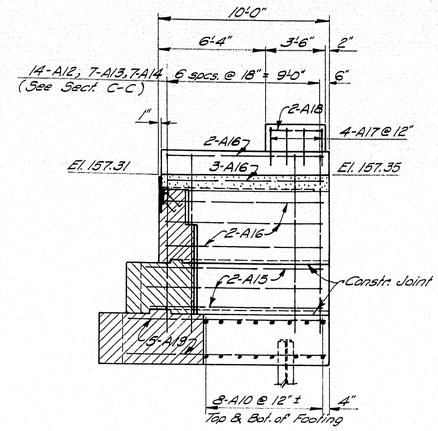
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	18	142

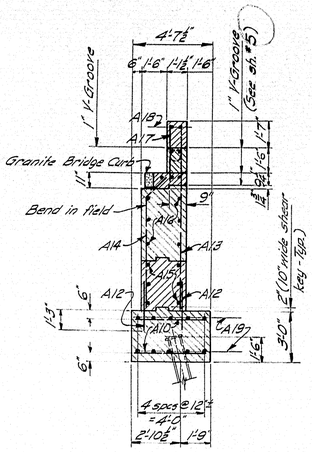




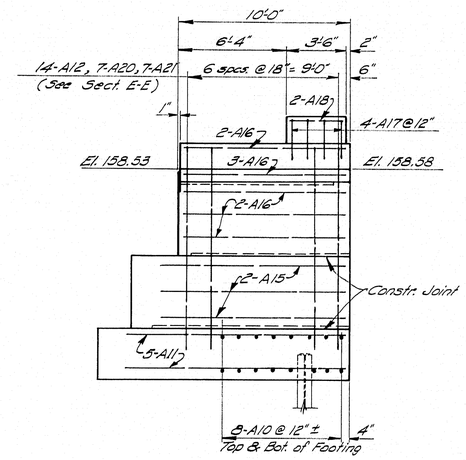
PLAN - ABUT. #2
Aluminum Rail not shown



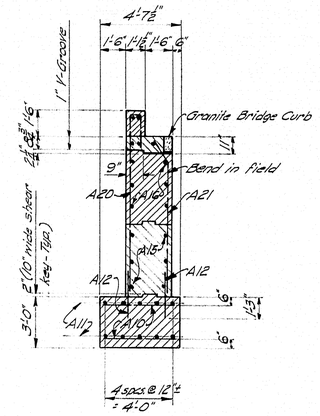
SECTION B-B
Wing reinforcing only shown



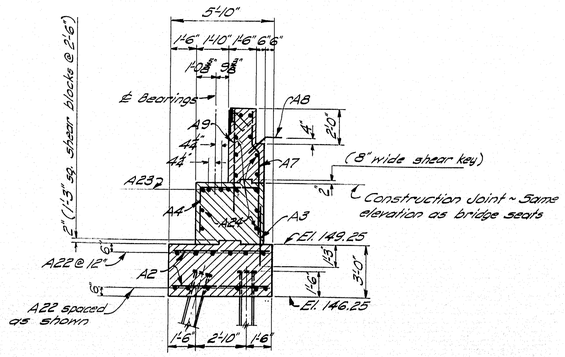
SECTION C-C



VIEW D-D
Wing reinforcing only shown.



SECTION E-E



SECTION A-A

PILE PLAN

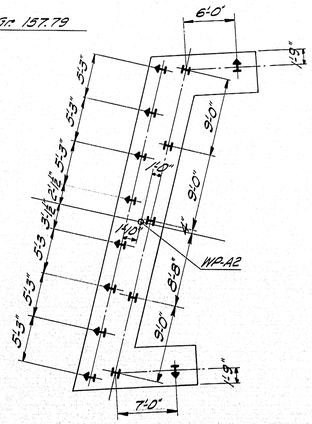
All piles to be 10 BP 42, fitted with pile caps as detailed on sheet #7

Drive piles to ledge or practical refusal.

Maximum Pile Load = 33 tons per pile.

Batter Piles indicated thus "⊢" 3" per ft. in direction of arrow. All others plumb.

15 piles required; Estimated Length, 55 ft.



NOTE:
See "GENERAL NOTES" and "GRANITE CURB LAYOUT" at abut. wings on sh. #5

DESIGN- M.C.R.
TRACE- R.W.C.
CHECK- CDH

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
ABUTMENT NO. 2

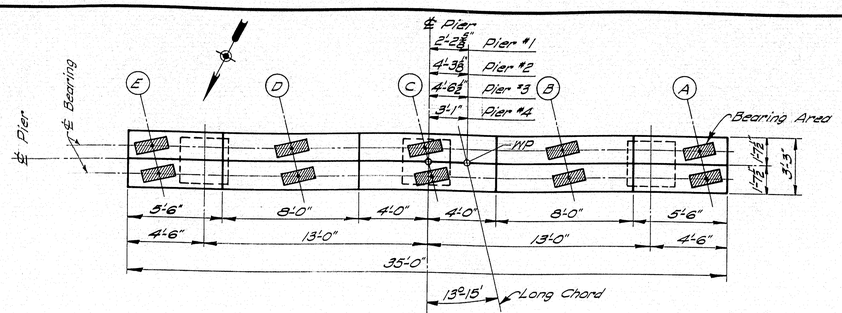
SHEET 6 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1818

K+E 168 IMPERIAL. HIGHLAND DARK T.M. D. L. M. INC. 67921

0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	19	142

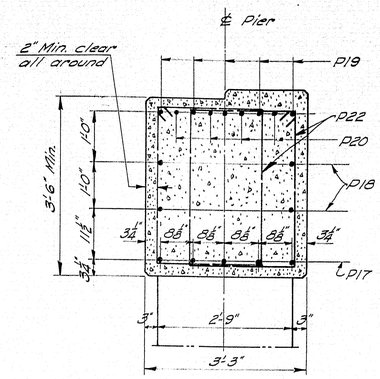


PLAN - PIER CAP

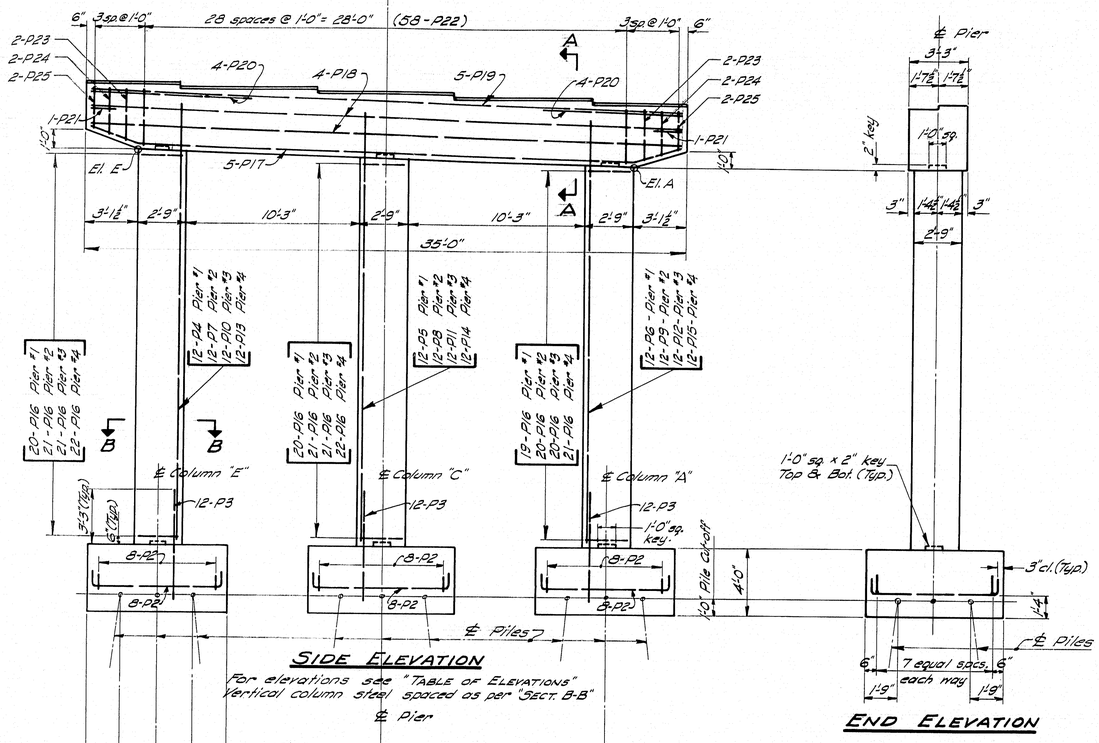
For Bearing Layout see sheet #8

TABLE OF ELEVATIONS

Location		Bearing Areas E	D	C	B	A	Bottom of Cap E	A	Bottom of Footings
Pier #1	South	150.47	150.17	149.88	149.58	149.28	146.59	145.51	122.50
	North	150.27	149.97	149.68	149.39	149.09			
Pier #2	South	151.54	151.24	150.94	150.64	150.34	147.71	146.62	122.50
	North	151.39	151.09	150.80	150.49	150.20			
Pier #3	South	152.43	152.13	151.82	151.52	151.22	148.59	147.48	123.00
	North	152.27	151.97	151.67	151.37	151.06			
Pier #4	South	153.08	152.77	152.47	152.16	151.85	149.25	148.12	123.00
	North	152.93	152.62	152.31	152.00	151.70			



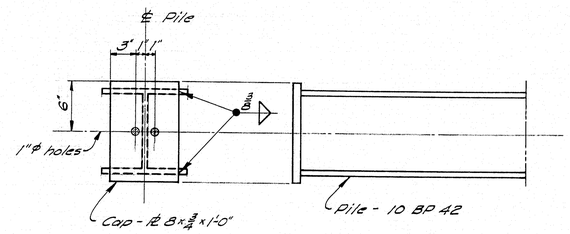
SECTION A-A



SIDE ELEVATION

For elevations see "TABLE OF ELEVATIONS"
Vertical column steel spaced as per "SECT. B-B"

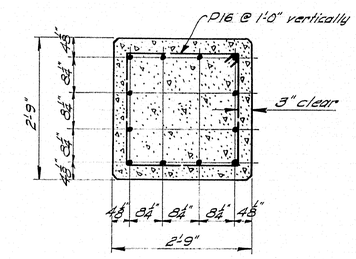
END ELEVATION



PILE DETAILS

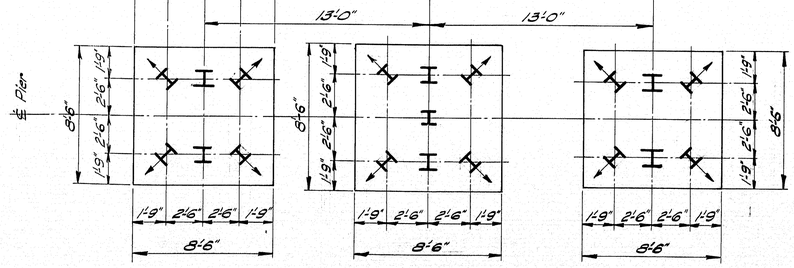
PILE NOTES

1. Nineteen (19) 10 BP 42 Steel H-Piles required for each pier.
2. Maximum Pile Load = 37 tons
3. Piles are to be driven to ledge or practical refusal to develop end bearing.
4. Piles marked thus ⊢→ to be battered 2 inches per foot in the direction of the arrow.
5. All piles to be capped as indicated.
6. Estimated Length of piles:
   a. Pier No. 1, 40 Feet
   b. Pier No. 2, 35 Feet
   c. Pier No. 3, 35 Feet
   d. Pier No. 4, 30 Feet



SECTION B-B

Typical for all columns



PILE & FOOTING PLAN

GENERAL NOTES

1. Position reinforcing steel in pier cap, under bearings, to clear sivedged anchor bolts
2. Chamfer all exposed edges of concrete ¾ inch.
3. Dress the shaded bearing areas on the bridge seats 1 inch larger all around than masonry plates, to exact elevations shown in "TABLE OF ELEVATIONS".
4. For pier stations and W.P. along the Long Chord, See sheet #8.

DESIGN- C.D.H.
TRACE- G.W.C.
CHECK- T.H.K.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE

OVER

INTERSTATE 95

IN THE TOWN OF

HAMPDEN

PENOBSCOT COUNTY

PIERS

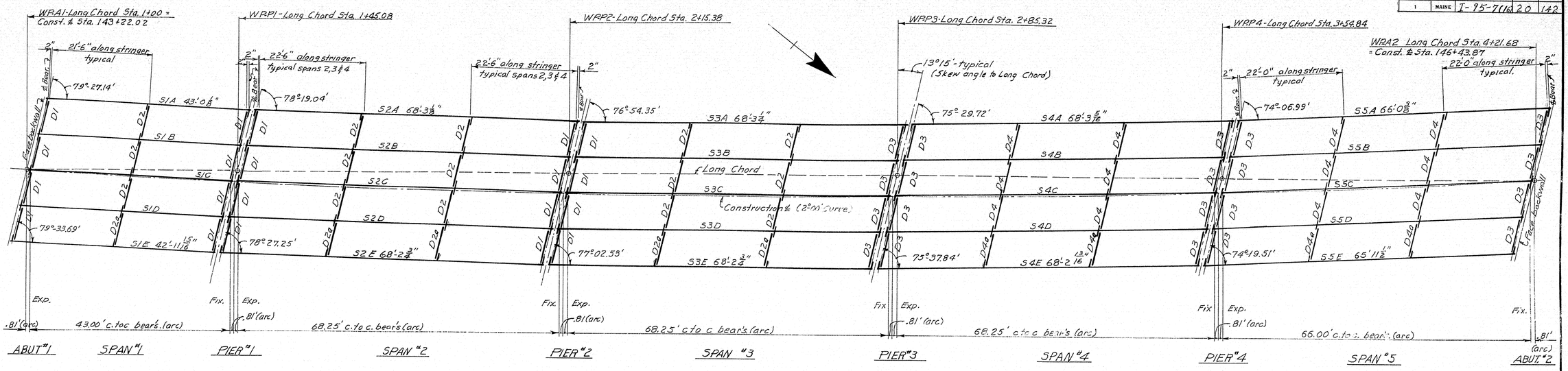
SHEET 7 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1819

K+E 186 IMPERIAL TRACING CLOTH T.M. D. L. M. INC. 83871

0 1 2 3 4 5 INCHES

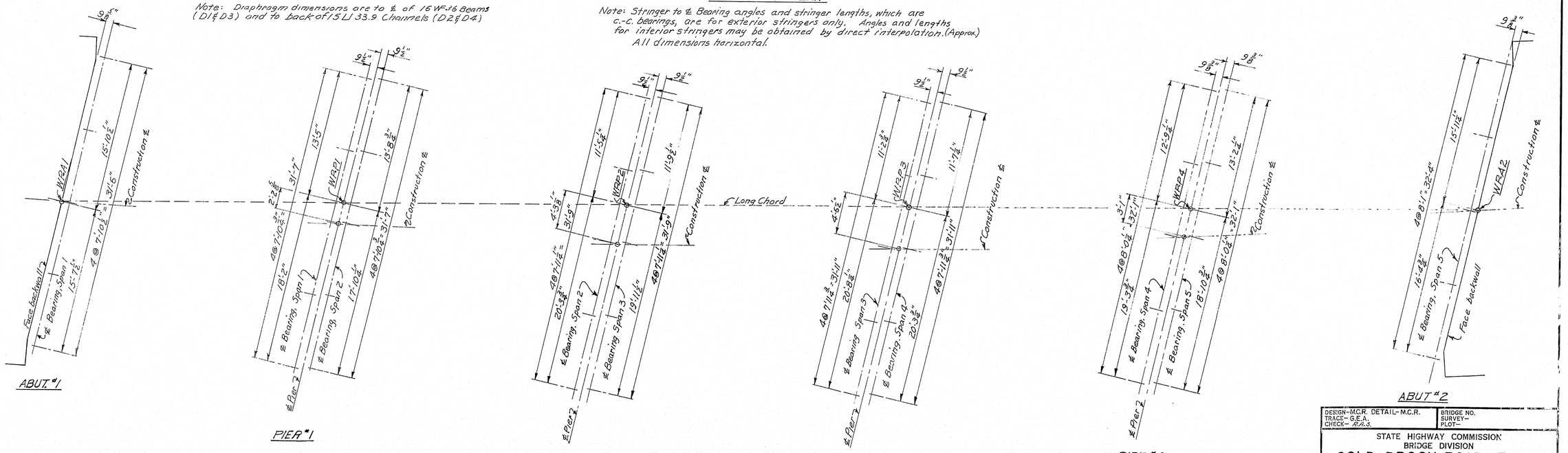
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	20	142



ERECTION PLAN

Note: Diaphragm dimensions are to ℄ of 16 WF 36 Beams (D1 & D3) and to back of 15 LJ 33.9 Channels (D2 & D4)

Note: Stringer to ℄ Bearing angles and stringer lengths, which are c.-c. bearings, are for exterior stringers only. Angles and lengths for interior stringers may be obtained by direct interpolation. (Approx.) All dimensions horizontal.



BEARING LAYOUT

DESIGN-M.C.R. DETAIL-M.C.R. TRACE-G.E.A. CHECK-R.A.S.	BRIDGE NO. SURVEY- PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY

STRUCTURAL STEEL
ERECTION PLAN & BEARING LAYOUT

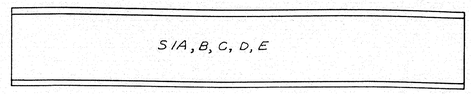
SHEET 8 OF 18 AUGUSTA, MAINE SEPT. 1961

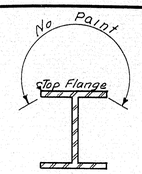
M-1820

D. L. M. INC. 47071

0 1 2 3 4 5 INCHES

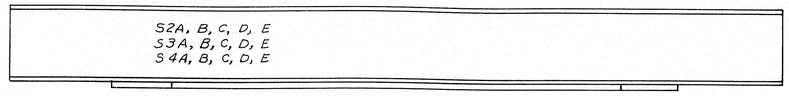
B.P.R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	21	142



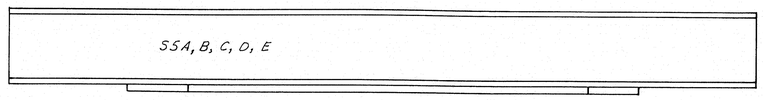


TYPICAL SECTION

5-36WF 135
Camber 1"
Length = 44'-0 1/2" except S1A & E
Length S1A = 44'-4" Length S1E = 44'-2"
Shear Connectors



15 36WF 170
Bottom Cover Pl. 11"x1 1/8"x 49'-0"
Camber 2 3/4"
Shear Connectors
Length = 69'-3 1/2" except S2A & E, S3A & E, S4A & E
Length S2A & E, S3A & E, S4A & E = 69'-8"



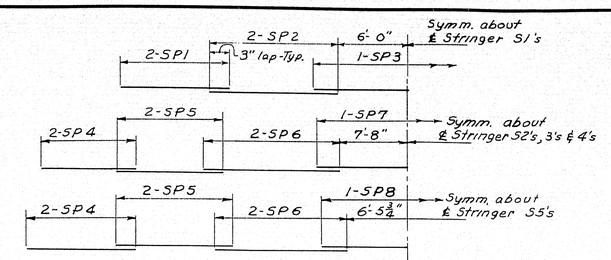
5 36WF 170
Bottom Cover Pl. 11"x1"x 45'-0"
Camber 2 3/4"
Shear Connectors
Length = 67'-0 1/2" except S5A & E
Length S5A = 67'-2 1/2" Length S5E = 67'-5"

STRINGER DETAILS

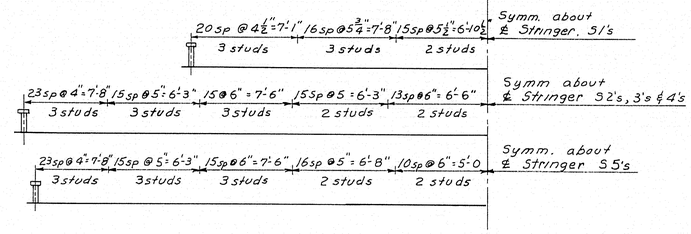
Note: Lengths of Exterior Stringers are detailed so that 2 1/2" (approx.) is provided between their webs at the piers and between web and face of backwall at the abutments. Beam projection beyond ℄ Bearings to be the same on both ends except S1A, S1E, S5A & S5E. For Erection Plan see sheet #8

SPIRAL TABLE

Mark	NO.	Pitch Spaces	Pitch	Length
SP1	20	19	5"	7'-11"
SP2	20	15	6 1/2"	8'-1 1/2"
SP3	5	30	5"	12'-6"
SP4	80	23	4 3/4"	9'-1 1/4"
SP5	80	17	5 3/4"	8'-1 3/4"
SP6	80	16	7 1/2"	10'-0"
SP7	15	38	5"	15'-10"
SP8	5	34	4 7/8"	13'-5 1/2"



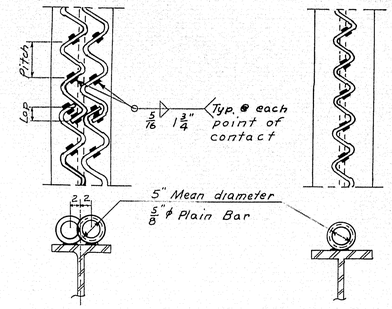
SPIRAL LAYOUT



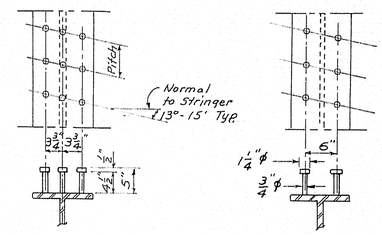
STUD LAYOUT

10,040 Studs Req'd.

NOTE: Studs are a patented product. If the Contractor elects to use them he shall pay the royalty and payment to the Contractor will be included in the lump sum price paid for "Shear Connectors."

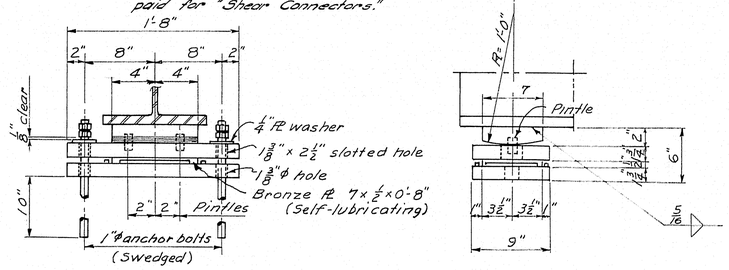


SPIRAL DETAILS



NOTE: Studs are to be granular or solid flux filled studs. They are to be automatically end welded to stringers in the shop or in the field.

STUD DETAILS

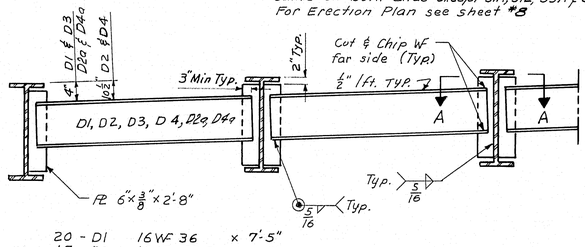


EXPANSION BEARINGS

25 Req'd.

NOTES

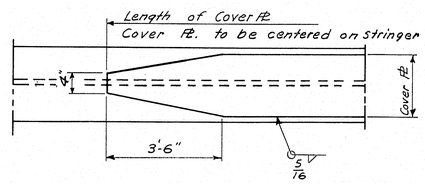
1. Specifications:
   A. Design & Detail - A.A.S.H.O. Standard Specifications
   B. Fabrication & Erection - M.S.H.C. Standard Specifications Highways and Bridges. Revision of Jan. 1956 and Supplemental Specifications Feb. 1960.
2. Loading H20 - S16 - 44
3. Material.
   A. Stringers with cover plates and cover plates shall be Structural weldable steel conforming to the latest revision of the Specification A.S.T.M. Design A 373.
   B. All other structural steel shall conform to A.S.T.M. Design A373 or A7 except as otherwise noted.
4. The type of shear connectors, Spiral or stud to be used shall be the option of the Contractor.
5. For Expansion Dam Details see sheet #16



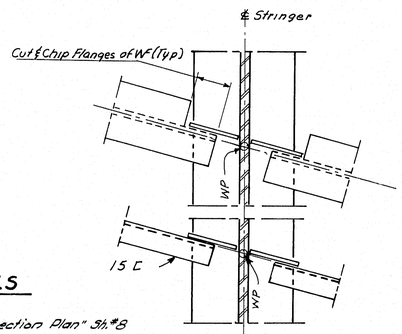
20 - D1	16WF 36	x	7'-5"
15 - D2	15 [33.9	x	7'-5"
20 - D3	16 WF 36	x	7'-6"
12 - D4	15 [33.9	x	7'-6"
5 - D2a	15 [33.9	x	7'-5"
4 - D4a	15 [33.9	x	7'-6"

DIAPHRAGM DETAILS

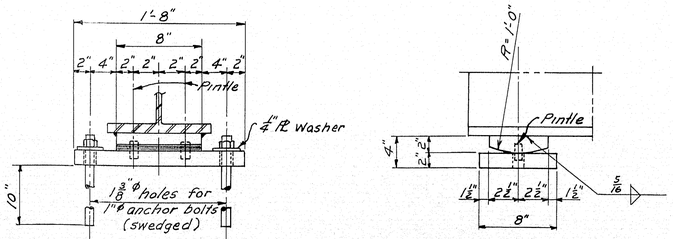
Section looking Northerly
For location of Pls 6 x 3/8 see "Erection Plan" Sh. #8



COVER PLATE DETAIL

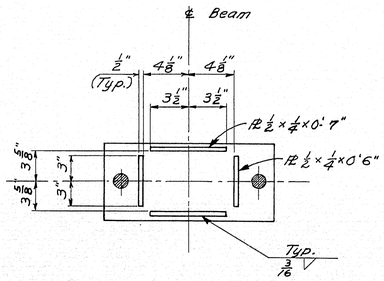


SECTION A-A

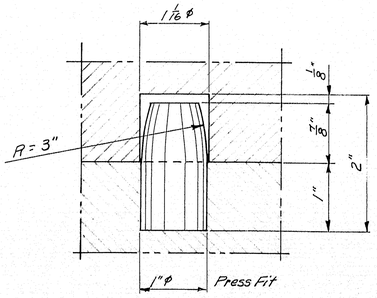


FIXED BEARINGS

25 Req'd.



MASONRY PLATE



PINTLE DETAIL

DESIGN-M.C.R. DETAIL-C.D.H.
TRACE-G.E.A.
CHECK-T.H.K.
BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
STRUCTURAL STEEL DETAILS

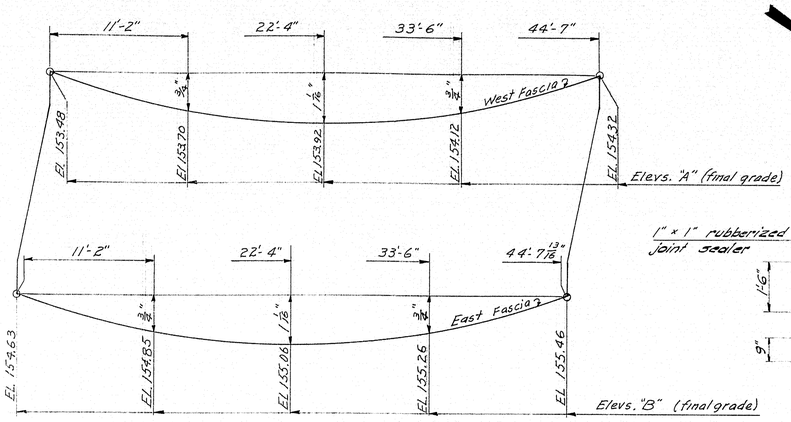
SHEET 9 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1821

K+E 166 IMPERIAL TRACING CLOTH D. L. M. INC. 87871

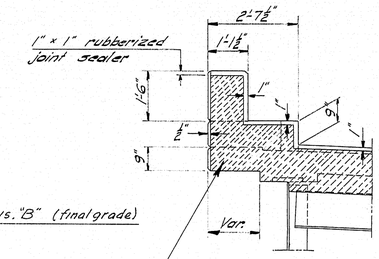
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	22	142



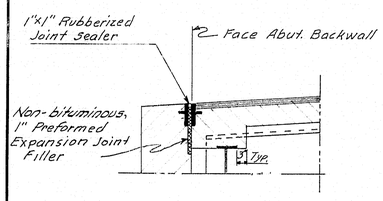
FASCIA LAYOUT & GRADES

See Typical Section for Elevation Locations

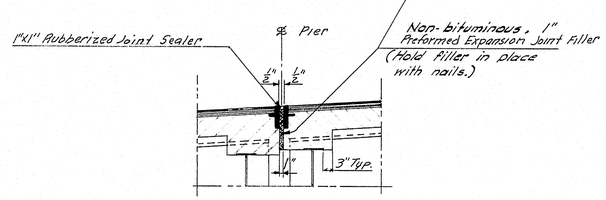


VIEW D-D

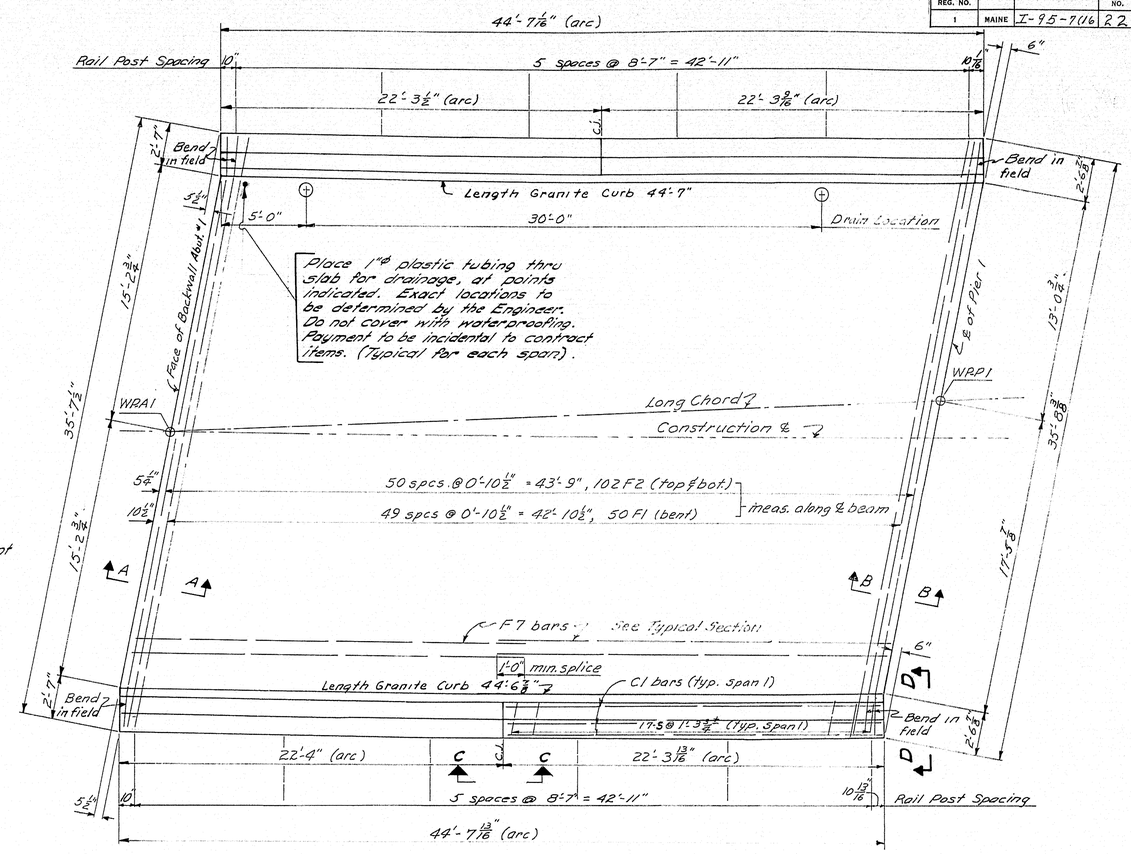
Typical at each pier joint



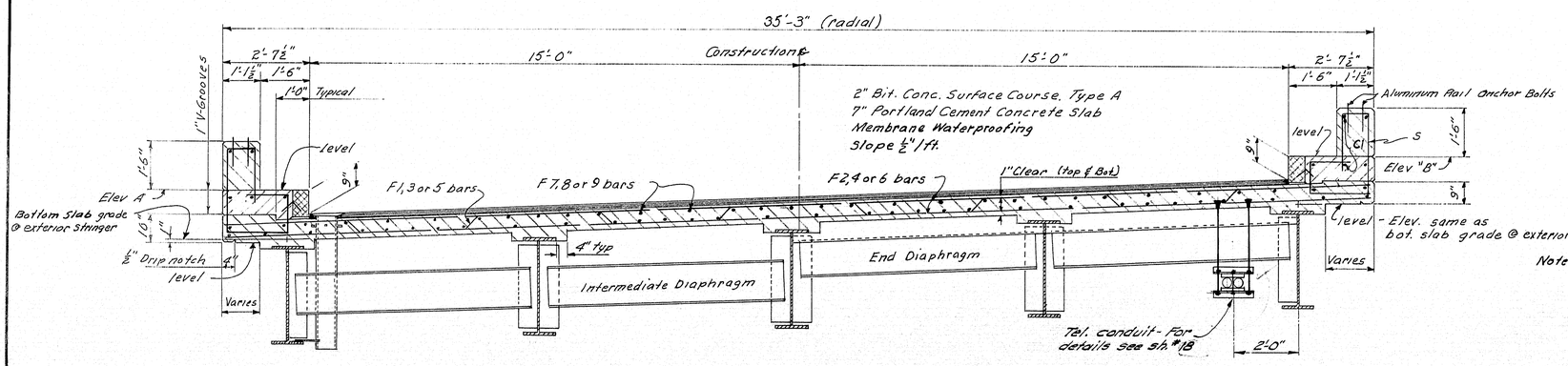
SECTION A-A



SECTION B-B

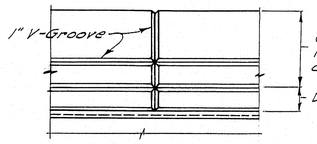


PLAN - SPAN 1



TYPICAL SECTION

Aluminum Rail not shown.



VIEW C-C

typical

Notes:

1. For Granite Curb Detail see Sheet #16
2. For Aluminum Rail Detail see Sheet #16
3. For 1" V-Groove Detail see sheet #5
4. Granite Curb, on these plans shall mean "Granite Bridge Curb."
5. Length of Granite Curb given on "Plan" is actual length required from out to out of end pieces for each span.
6. Curb steel shall be in position before slab concrete is placed.
7. Concrete for curbs shall not be placed until slab concrete has been in place seven (7) days min. During this 7-day period forms may be constructed, but hand equipment only will be allowed on the slab.

DESIGN-M.C.R. DETAIL-R.O.G.
TRACE-G.E.A.
CHECK-R.A.S.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE

OVER

INTERSTATE 95

IN THE TOWN OF

HAMPDEN

PENOBSCOT COUNTY

SPAN 1

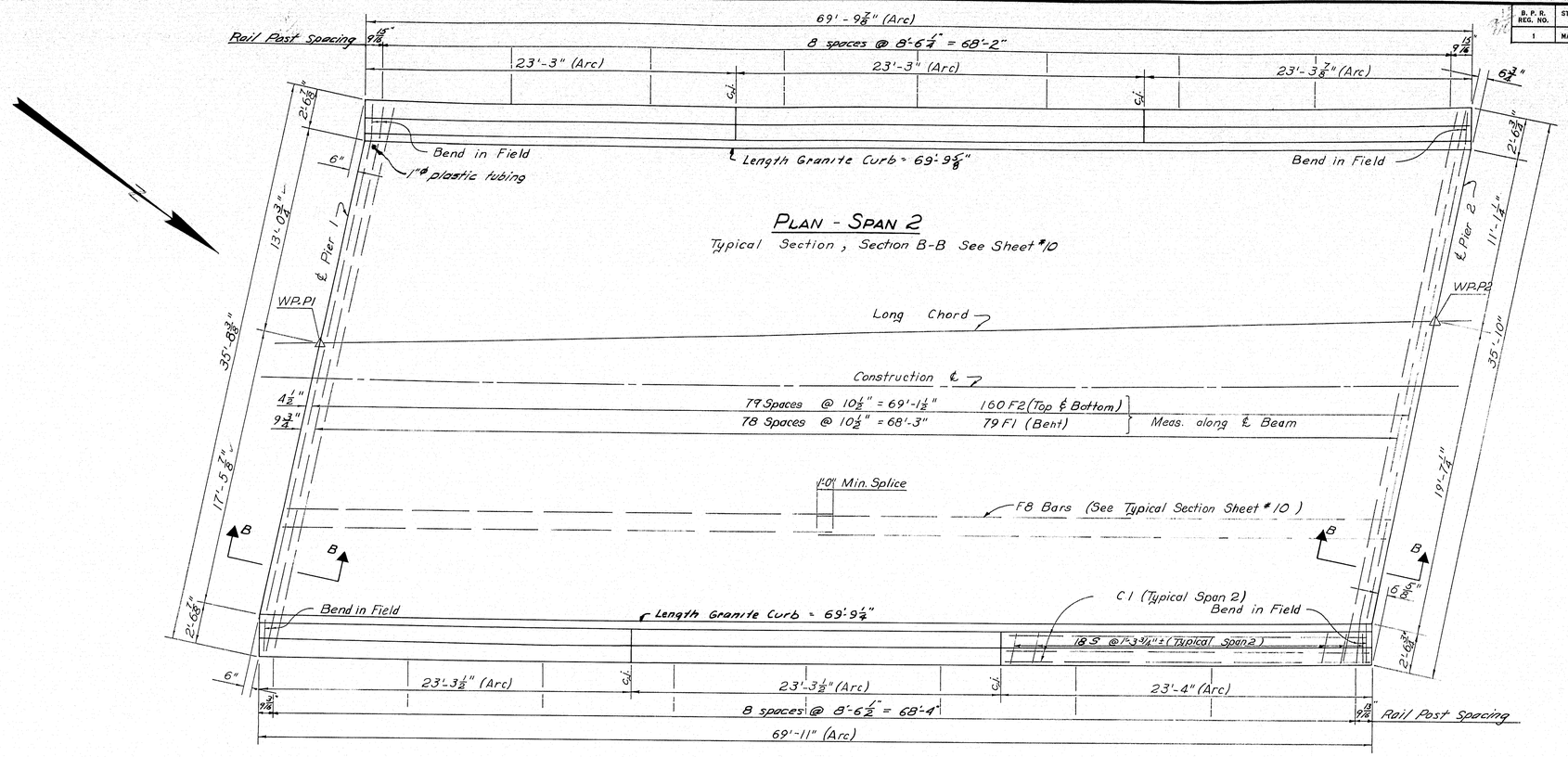
SHEET 10 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1822

K+E 150 IMPERIAL TRACING PAPER D. L. M. INC. 87071

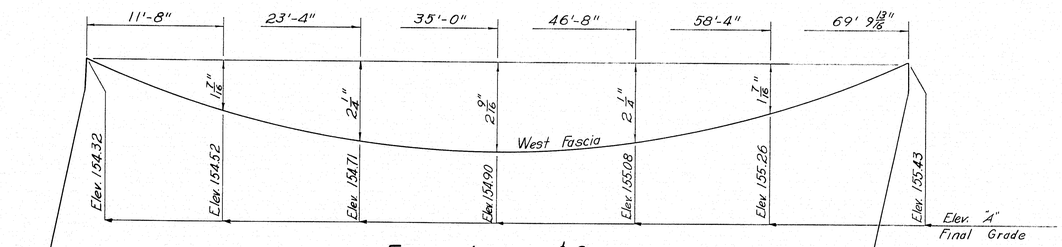
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	23	142



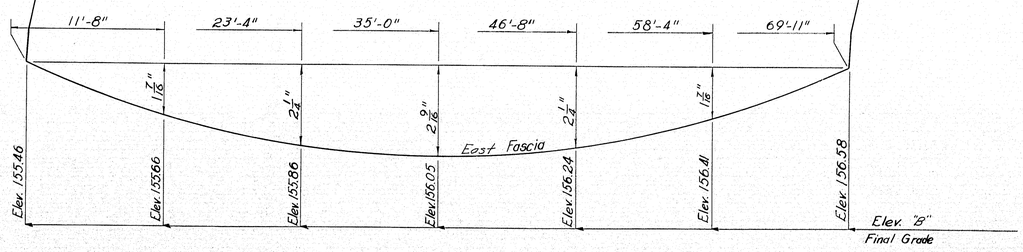
PLAN - SPAN 2

Typical Section, Section B-B See Sheet #10



FASCIA - LAYOUT & GRADES

See Typical Section, Sheet #10 for Elevation Location



DESIGN- MCVR DFT- R.O.G.
TRACE- E.B.B.
CHECK- R.A.S.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
SPAN 2

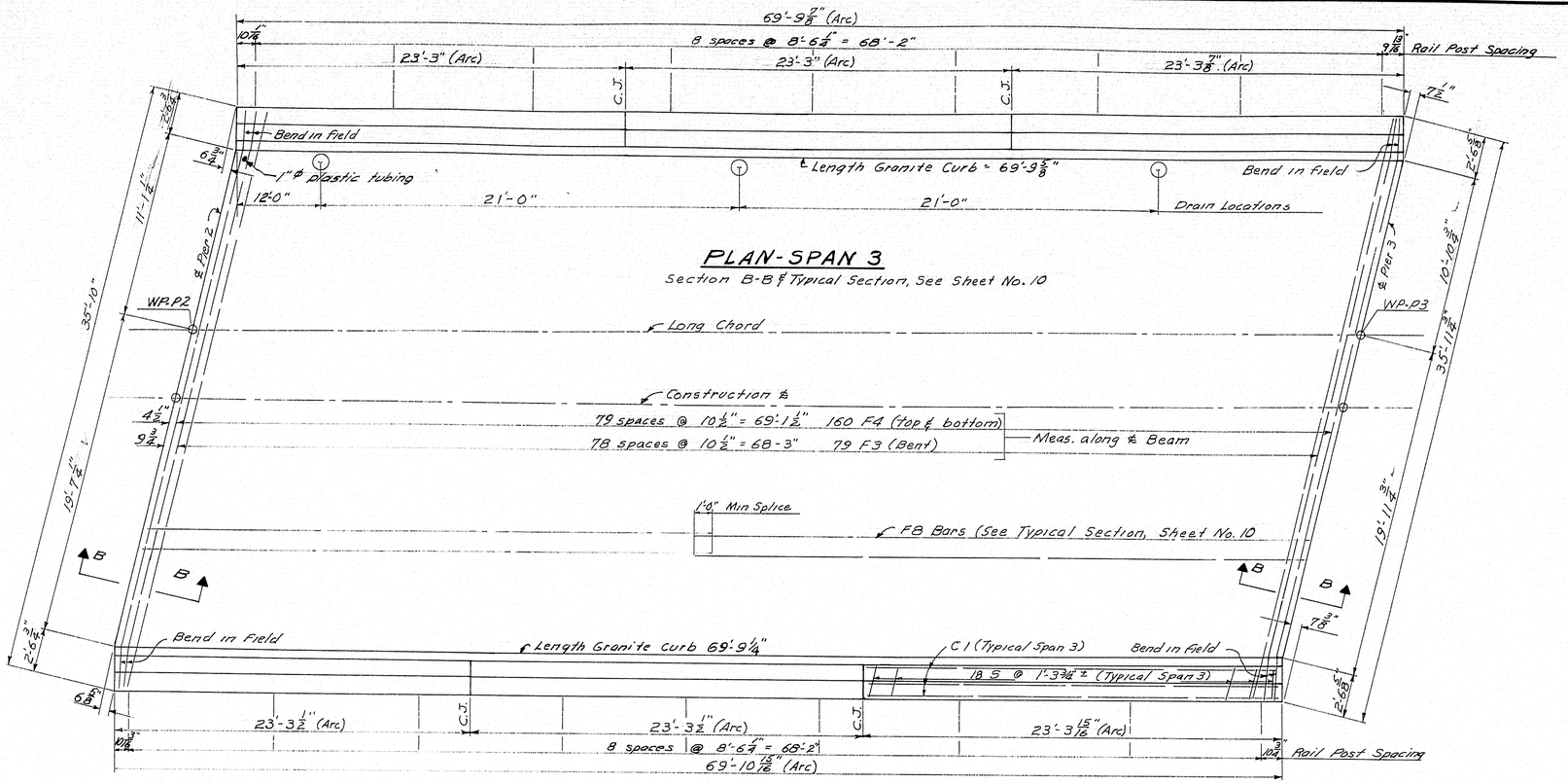
SHEET 11 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1823

K&E 166 IMPERIAL D. L. M. INC. 87071

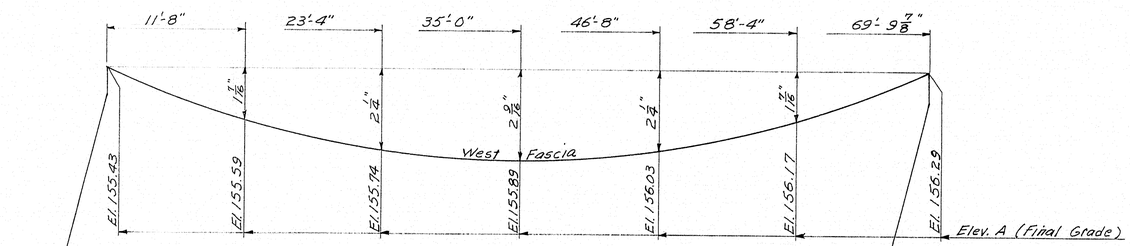
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	24	142



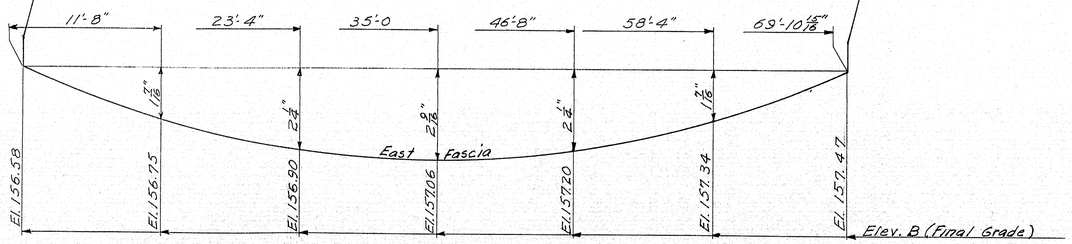
PLAN-SPAN 3

Section B-B & Typical Section, See Sheet No. 10



FASCIA LAYOUT & GRADES

See Typical Section, Sheet No. 10, For Elevation Locations



DESIGN- M.C.R. DETAIL - R.O.G.
TRACE- G.E.A.
CHECK- R.A.S.

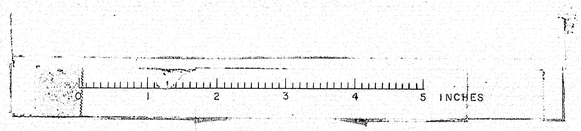
BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

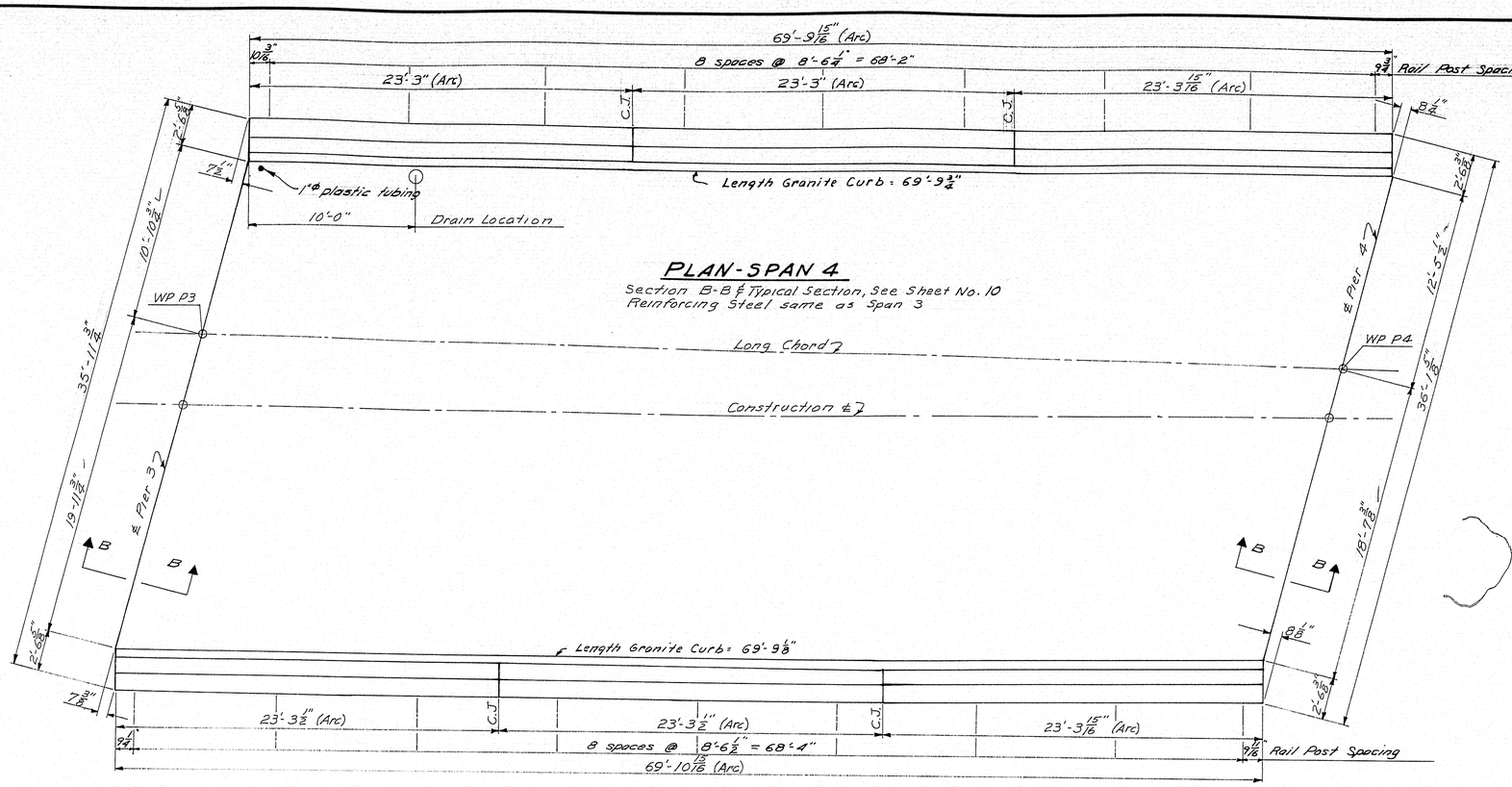
COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
SPAN 3

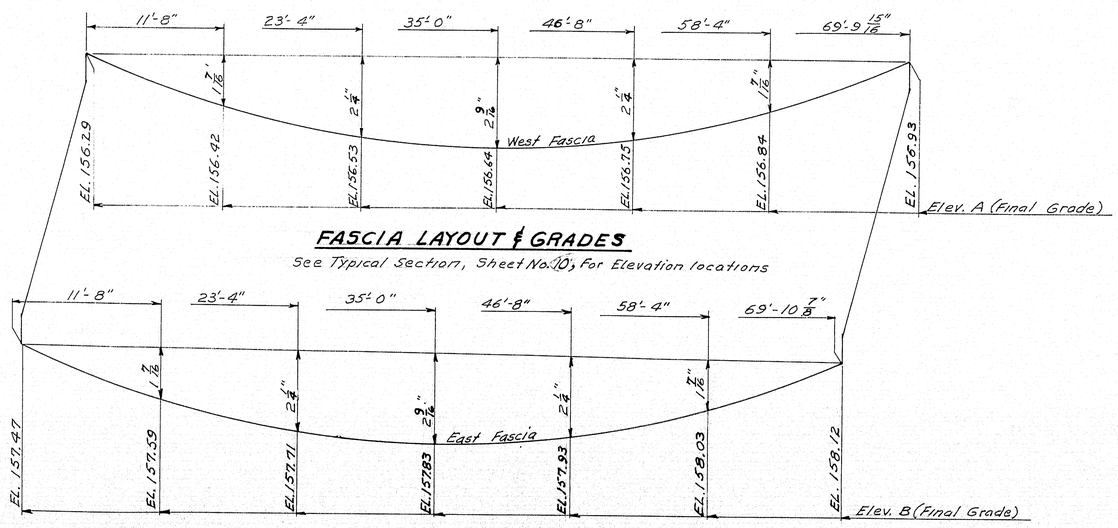
SHEET 12 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1824



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	25	142





PLAN-SPAN 4

Section B-B ≠ Typical Section, See Sheet No. 10
Reinforcing Steel same as Span 3

FASCIA LAYOUT & GRADES

See Typical Section, Sheet No. 10, For Elevation locations

DESIGN- M.C.R. DETAIL- R.O.G.
TRACE- G.E.A.
CHECK- R.A.S.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
SPAN 4

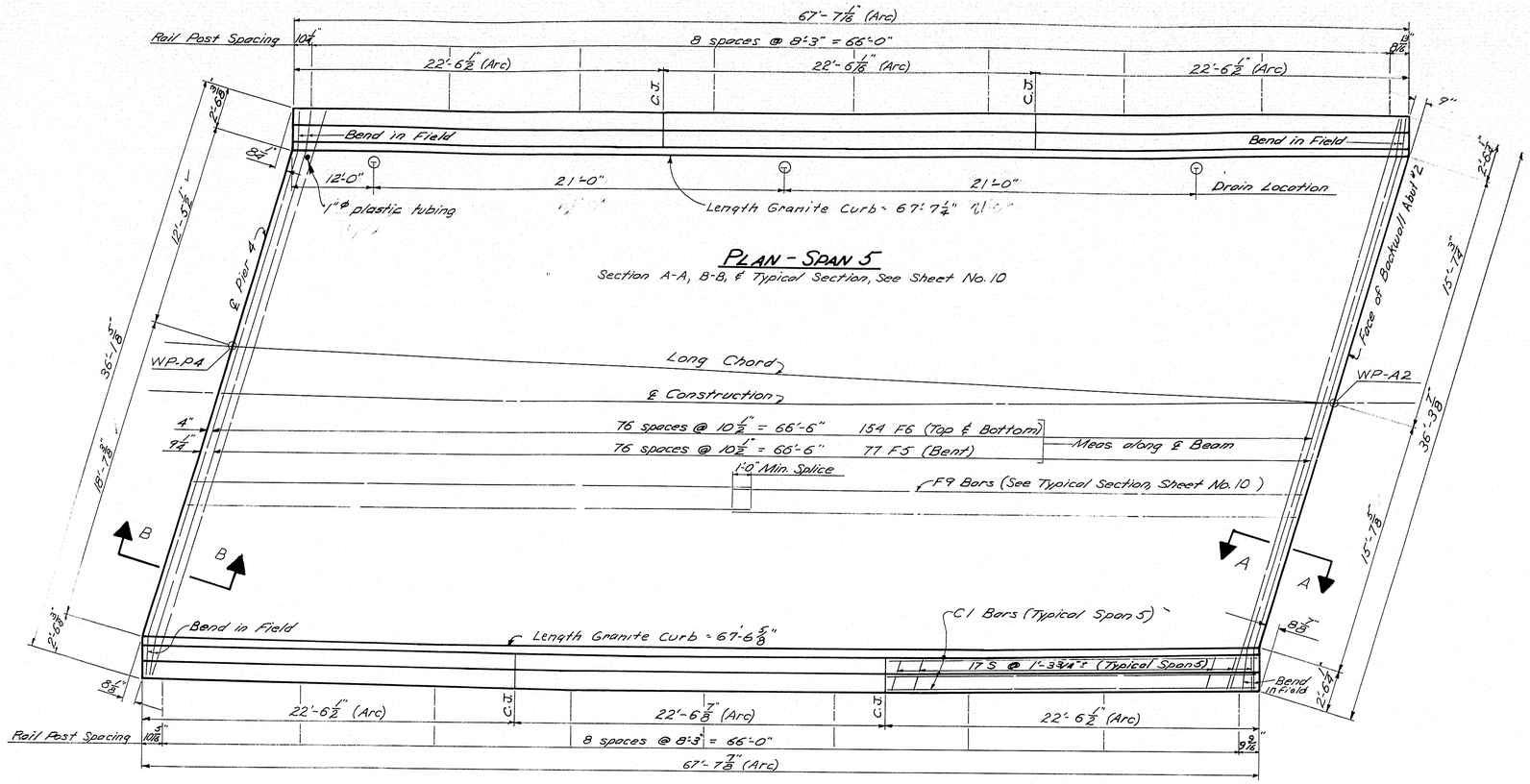
SHEET 13 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1825

K+E 10X IMPERIAL TRACING CLOTH S.R. B. L. M. INC. 87873

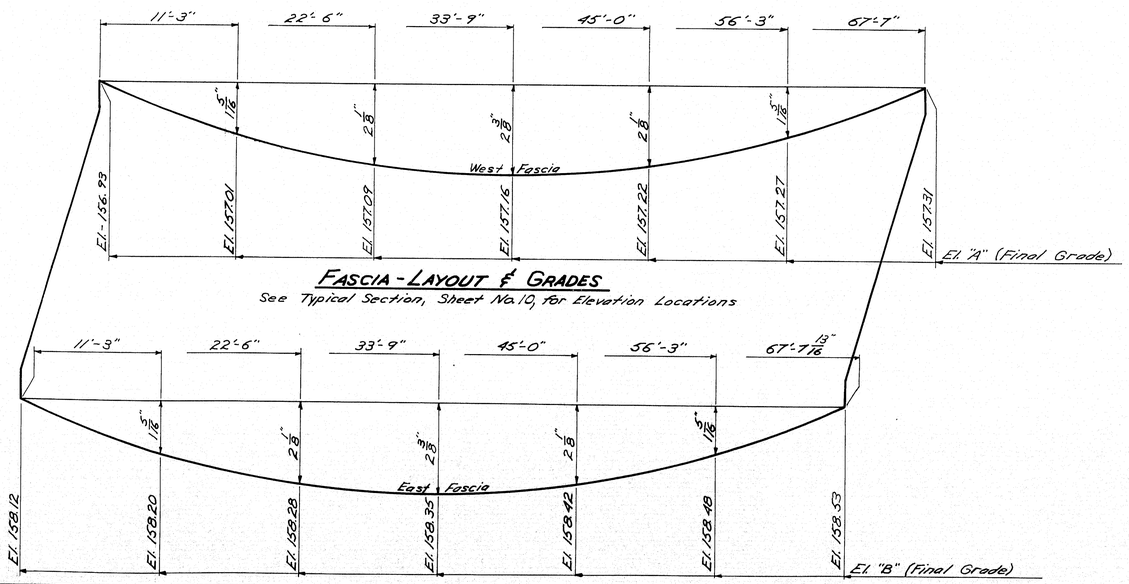
1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	2 G	142



PLAN - SPAN 5

Section A-A, B-B, & Typical Section, See Sheet No. 10



FASCIA - LAYOUT & GRADES

See Typical Section, Sheet No. 10, for Elevation Locations

DESIGN- M.C.R. DET- R.O.G.
TRACE- R.O.G.
CHECK- R.A.S.

BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
SPAN 5

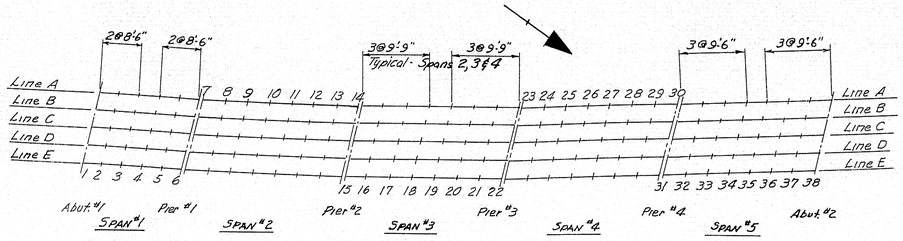
SHEET 14 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1826

HAE THE IMPERIAL BALTIMORE CLEVELAND D. L. M. INC. 67871

0 1 2 3 4 5 INCHES

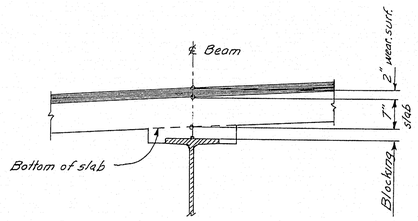
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7 (16)	27	142



BLOCKING POINT LAYOUT

BOTTOM OF SLAB ELEVATIONS							
		Stringer Line					Max. D.L.
Span	Point	A	B	C	D	E	Defl.†
℄ Brg's.	1	151.98	152.28	152.58	152.87	153.16	
	2	152.16	152.46	152.76	153.06	153.35	
1	3	152.33	152.63	152.93	153.22	153.52	5/16"
	4	152.50	152.80	153.09	153.39	153.68	
	5	152.64	152.94	153.24	153.53	153.83	
℄ Brg's.	6	152.78	153.08	153.38	153.67	153.97	
℄ Brg's.	7	152.81	153.11	153.40	153.69	153.99	
	8	153.02	153.32	153.61	153.91	154.21	
	9	153.22	153.51	153.80	154.10	154.40	
2	10	153.39	153.68	153.98	154.28	154.58	1 1/8"
	11	153.54	153.84	154.13	154.44	154.74	
	12	153.68	153.97	154.27	154.57	154.87	
	13	153.80	154.09	154.39	154.67	154.99	
℄ Brg's.	14	153.89	154.19	154.49	154.79	155.09	
℄ Brg's.	15	153.92	154.21	154.52	154.81	155.11	
	16	154.10	154.40	154.69	154.99	155.29	
	17	154.26	154.55	154.86	155.16	155.46	
3	18	154.40	154.70	155.00	155.30	155.60	1 1/8"
	19	154.52	154.82	155.12	155.42	155.72	
	20	154.63	154.92	155.22	155.53	155.83	
	21	154.70	155.00	155.31	155.61	155.91	
℄ Brg's	22	154.77	155.07	155.37	155.68	155.98	
℄ Brg's.	23	154.78	155.09	155.39	155.69	155.99	
	24	154.93	155.23	155.54	155.84	156.14	
	25	155.06	155.36	155.66	155.97	156.27	
4	26	155.16	155.47	155.77	156.08	156.38	1 1/8"
	27	155.25	155.55	155.86	156.16	156.47	
	28	155.32	155.63	155.93	156.24	156.54	
	29	155.37	155.68	155.98	156.29	156.59	
℄ Brg's.	30	155.40	155.71	156.02	156.32	156.63	
℄ Brg's.	31	155.42	155.72	156.03	156.34	156.65	
	32	155.52	155.83	156.14	156.45	156.76	
	33	155.60	155.92	156.23	156.53	156.84	
5	34	155.68	155.99	156.30	156.61	156.92	1"
	35	155.73	156.04	156.35	156.66	156.97	
	36	155.77	156.08	156.39	156.70	157.01	
	37	155.79	156.11	156.42	156.73	157.04	
℄ Brg's.	38	155.80	156.11	156.42	156.73	157.05	

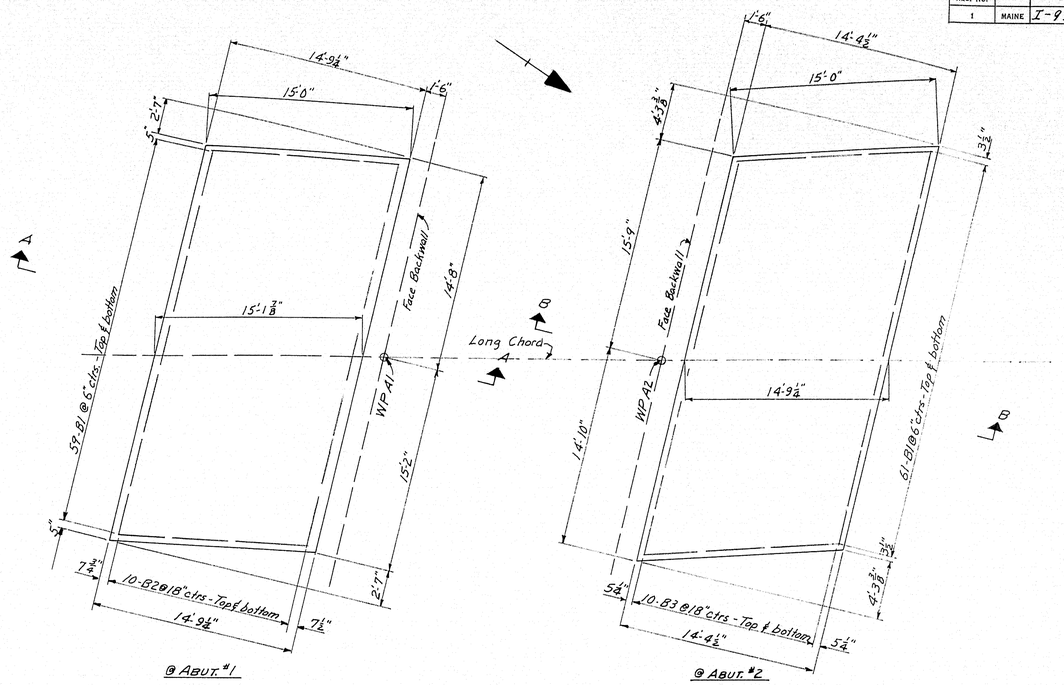
†Exclusive of that caused by structural steel



BLOCKING DETAIL

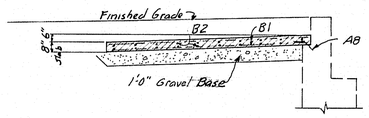
Nominal blocking @ ℄ Brgs. = 2½"

NOTE: In order that the roadway slab may conform to the profile and cross sections shown on these plans, the accompanying table of elevations is given. Elevations for the bottom of the slab which are computed to compensate for dead load deflections must be established before slab forms are started.

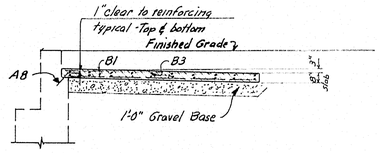


PLAN - APPROACH SLABS

NOTE: Payment for concrete in approach slabs to be made under Item 701-40, Portland Cement Concrete Roadway and Sidewalk Slabs on Steel Bridges.



SECTION A-A



SECTION B-B

DESIGN—M.C.R. DETAIL—M.C.R.
TRACE—G.E.A.
CHECK—R.A.S.

BRIDGE NO.
SURVEY—
PLOT—

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY

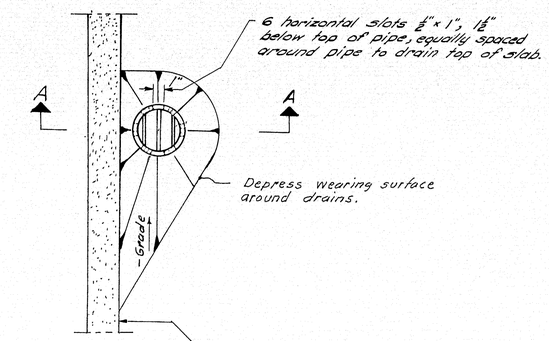
BLOCKING & APPROACH SLAB DETAILS

SHEET 15 OF 18 AUGUSTA, MAINE SEPT. 1961

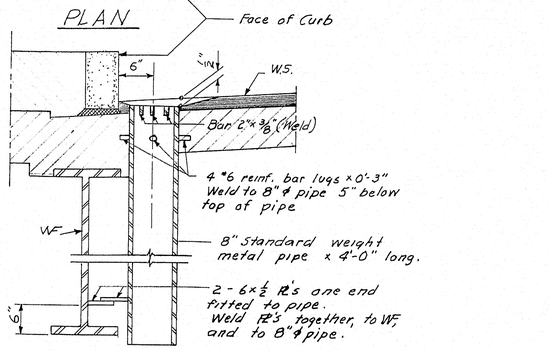
M-[redacted] 1827

K+E 10X IMPERIAL D. L. M. INC.

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	28	142



PLAN

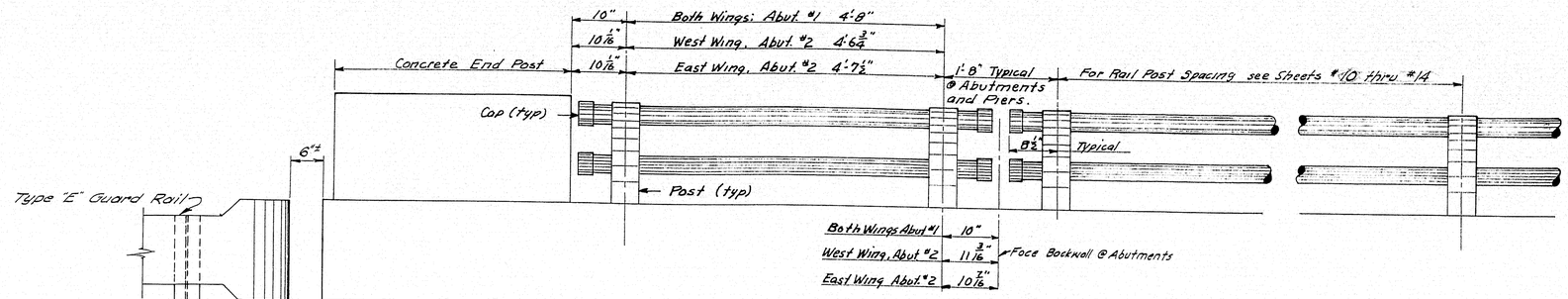


SECTION A-A

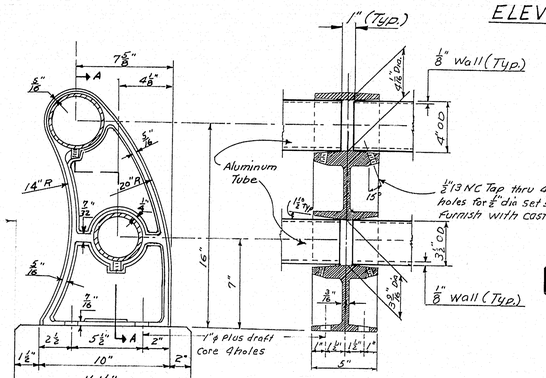
Notes:

1. For location of Drains see sheets #10, #12, #13, #14
2. Drains shall conform to Supplemental Specification Section 702 - Pipe Drains.

DRAIN DETAILS
9 Req'd

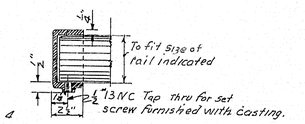


ELEVATION

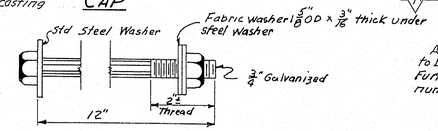


POST

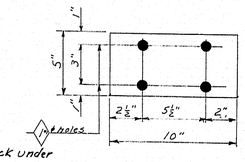
SECTION A-A



CAP



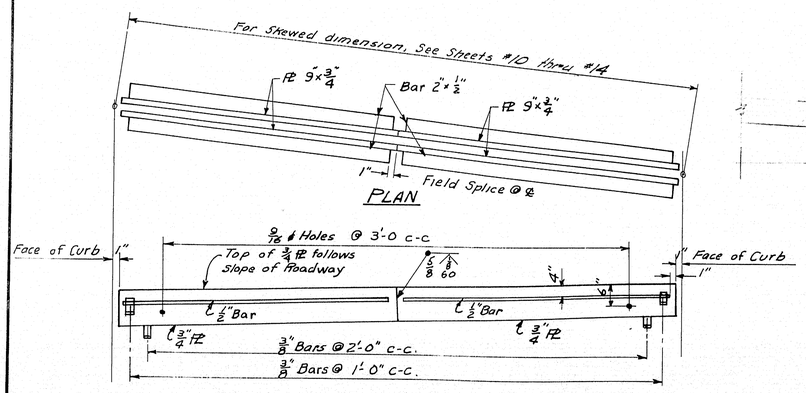
ANCHOR BOLTS
Structural Steel, Galvanized.
Set bolts with 2" projecting out of concrete.
Req'd - 4 each rail post.



SHIM
Aluminum Alloy Shims 5"x⅛" x0'-10" to be used, and cut as necessary. Furnish in the amount of 50% of number of rail posts.

NOTE
Aluminum pipe to be jointed at each rail post. One set screw to be tight, other to bear.

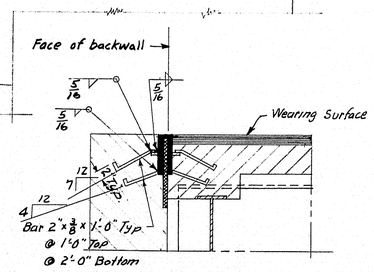
ALUMINUM RAIL DETAILS



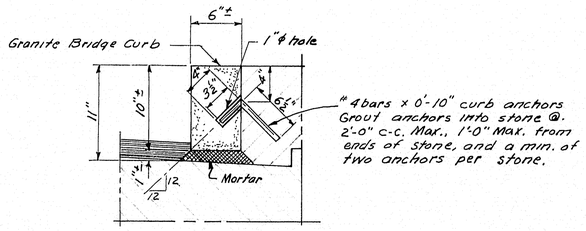
PLAN

ELEVATION

EXPANSION DAM DETAILS
6 Req'd.



SECTION AT ABUTMENT



TYPICAL SECTION
GRANITE BRIDGE CURB

DESIGN-M.C.R. DETAIL-C.D.H.
TRACE-G.E.A.
CHECK-T.H.K.
BRIDGE NO.
SURVEY-
PLOT-

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
DRAIN, EXPANSION DAMS & RAIL DETAILS

SHEET 16 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1828

K+E 128 IMPERIAL DIAZO-LUSTER 2 M. D. L. M. INC. 67871

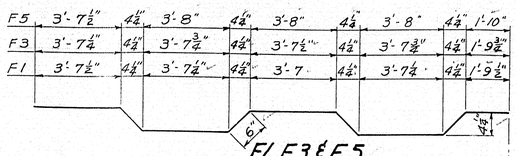
0 1 2 3 4 5 INCHES

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	29	142

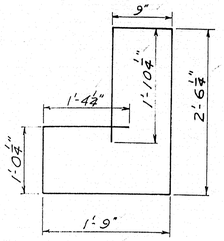
REINFORCING STEEL SCHEDULE

SUPERSTRUCTURE

Detail: R.O.G.
Check: M.C.R. ✓



F1, F3 & F5
Symmetrical about ℄



S

Dimensions are to ℄ of bars.

BENT BARS

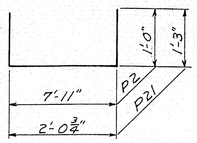
Mark	Size	Number	Length	Location
F1	#5	129	36'-5"	Slab, Spans 1 & 2
F3	#5	158	36'-8"	Slab, Spans 3 & 4
F5	#5	77	36'-11"	Slab, Span 5
S	#4	494	9'-3"	Curb, All Spans

STRAIGHT BARS

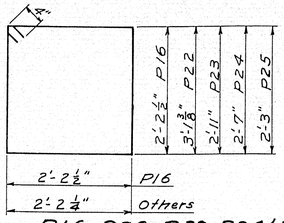
F2	#5	262	35'-3"	Slab, Spans 1 & 2
F4	#5	320	35'-6"	Slab, Spans 3 & 4
F6	#5	154	35'-9"	Slab, Span 5
F7	#4	126	22'-8"	Slab, Span 1
F8	#4	378	35'-4"	Slab, Spans 2, 3 & 4
F9	#4	126	34'-2"	Slab, Span 5
C1	#4	140	22'-0"	Curb, All Spans

PIERS

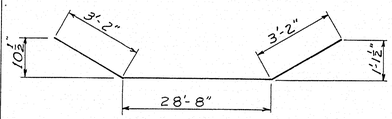
Design: C.D.H.
Check: T.H.K. ✓



P2, P21



P16, P22, P23, P24 & P25



P17

Dimensions are to ℄ of bars.

BENT BARS

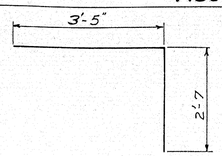
Mark	Size	Number	Length	Location
P2	#9	192	9'-11"	Footings
P16	#4	248	9'-6"	Column Ties
P17	#10	20	35'-0"	Bottom of Caps
P21	#6	8	4'-7"	End of Caps
P22	#5	232	11'-3"	Cap Stirrups
P23	#5	16	10'-11"	do
P24	#5	16	10'-3"	do
P25	#5	16	9'-7"	do

STRAIGHT BARS

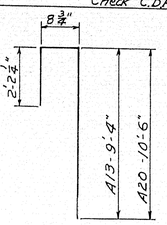
P3	#9	144	6'-6"	Footing Dowels	
P4		12	23'-4"	Pier #1	Column E
P5		12	22'-10"	do	C
P6		12	22'-3"	do	A
P7		12	24'-6"	Pier #2	E
P8		12	23'-11"	do	C
P9		12	23'-4"	do	A
P10		12	24'-10"	Pier #3	E
P11		12	24'-4"	do	C
P12		12	23'-9"	do	A
P13		12	25'-6"	Pier #4	E
P14		12	25'-0"	do	C
P15	#9	12	24'-5"	do	Column A
P18	#6	16	34'-8"	Caps	
P19	#10	20	34'-8"	Caps	
P20	#8	32	8'-4"	Caps	

ABUTMENTS

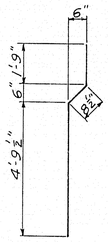
Design: M.C.R.
Check C.D.H. ✓



A4

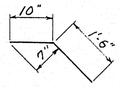


A13 & A20

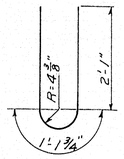


A7

Dimensions are to ℄ of bars.



A8



A17

BENT BARS

Mark	Size	Number	Length	Location
A4	#5	42	6'-0"	Bridge Seats, both Abuts.
A7	#5	42	7'-3"	Back walls, both Abuts.
A8	#5	40	2'-4"	Back walls, both Abuts.
A13	#5	14	12'-3"	West wings, both Abuts.
A17	#5	16	5'-4"	Both Wings, both Abuts.
A20	#5	14	13'-5"	East wings, both Abuts.

STRAIGHT BARS

A1	#7	12	38'-0"	Footing, Abut. #1
A2	#6	126	5'-4"	Footings, Both Abuts.
A3	#5	42	3'-8"	Footings, Both Abuts.
A5	#6	4	35'-0"	Bridge seat, Abut. #1
A6	#5	14	35'-0"	Bridge seat & Backwall Abut #1
A9	#5	42	6'-0"	Backwalls, Both Abuts.
A10	#6	64	4'-1"	Both wing Footings, Both Abuts.
A11	#6	20	12'-9"	West wing Foot. Abut #1; East wing Foot. Abut. #2
A12	#5	56	2'-9"	Both wing Footings, Both Abuts.
A14	#5	14	7'-10"	West wings, Both Abuts.
A15	#5	24	10'-9"	Both wings, Both Abuts.
A16	#5	44	9'-6"	Both wings, Both Abuts.
A18	#5	8	3'-2"	Both wings, Both Abuts.
A19	#6	20	11'-11"	East wing Foot. Abut #1, West wing Foot. Abut #2
A21	#5	14	9'-0"	East wings, Both Abuts.
A22	#7	12	39'-0"	Footing Abut. #2
A23	#6	4	36'-3"	Bridge seat, Abut. #2
A24	#5	14	36'-3	Bridge seat & Backwall, Abut. #2

APPROACH SLABS

Design: MCR
Check: CDH ✓

STRAIGHT BARS

Mark	Size	Number	Length	Location
B1	#6	240	14'-6"	@ Both Abutments
B2	#4	20	29'-4"	@ Abutment #1
B3	#4	20	30'-1"	@ Abutment #2

NOTE: Reinforcing Steel to be Intermediate grade.

DESIGN- AS NOTED
TRACE- G.E.A.
CHECK- AS NOTED

BRIDGE NO.
SURVEY-
PLOT-

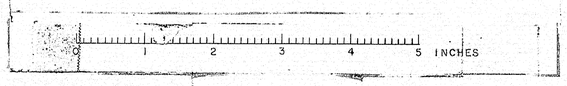
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

COLD BROOK ROAD BRIDGE
OVER
INTERSTATE 95
IN THE TOWN OF
HAMPDEN
PENOBSCOT COUNTY
REINFORCING STEEL

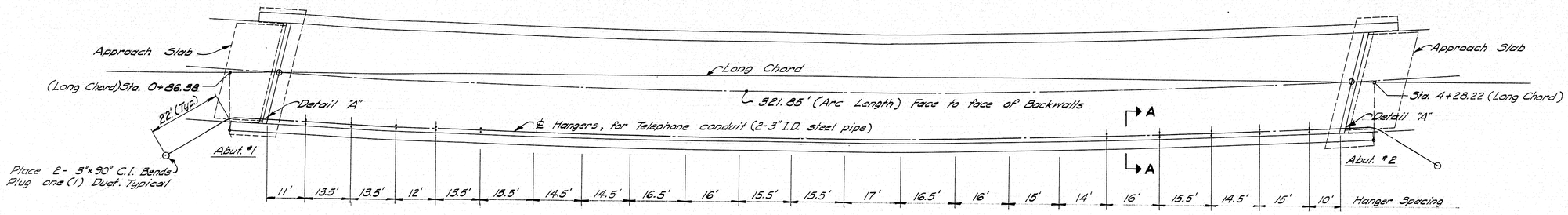
SHEET 17 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1829

K+E 166 IMPERIAL TRACING CLOTH D.A. D. L. M. INC. 2787



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	I-95-7(16)	30	42



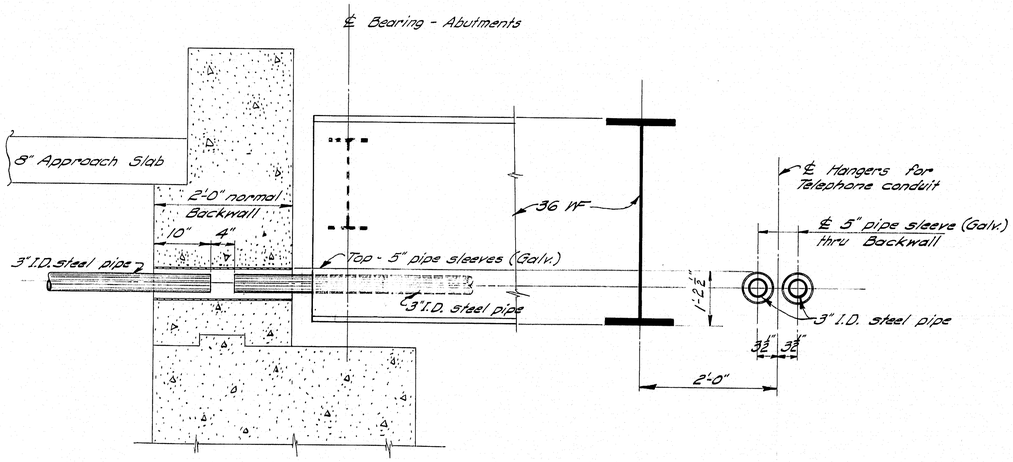
PLAN

Scale : 1/16" = 1'-0"

Spacing of Hangers for Telephone conduit may be varied slightly.

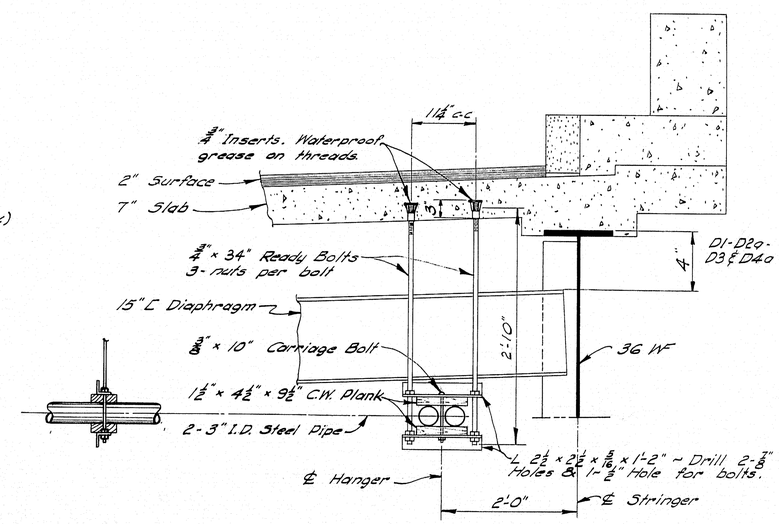
MATERIAL REQUIRED

772 ft.	3" I.D. steel pipe (Ducts)	4C
4	5" steel pipe x 2'-2" (Galv.)	4C
42	3/4" Inserts x 3" long	4C
42	3/4" x 2'-10" Ready Bolts	4C
42	1 1/2" x 4 1/2" x 9 1/2" C.W. Plank	4C
126	3/4" Nuts for Ready Bolts	4C
21	3/8" x 10" Carriage Bolts w/nuts	4C
42	L's 2 1/2" x 2 1/2" x 5/16" x 1'-2"	4C
4	3" x 90° C.I. Bends	4C



DETAIL "A"

Typical



SECTION A-A

Hanger Assembly
21 - Required

MATERIAL FOR ONE (1) HANGER

2 - 3/4" Inserts x 3" long
2 - 3/4" x 3'-4" Ready Bolts
2 - 1 1/2" x 4 1/2" x 9 1/2" C.W. Plank
6 - 3/4" Nuts for Ready Bolts
1 - 3/8" x 10" Carriage Bolt
2 - L's 2 1/2" x 2 1/2" x 5/16" x 1'-2"

NOTE: The Telephone Company (N.E.T.&T.) to supply and install all conduit, pipe sleeves, and supporting hardware. Installation to be coordinated with Bridge Contractor.

DESIGN– N.E.T. & T. – H.V.C., J.E.S.
TRACE– G.W.C.
CHECK– [illegible]

BRIDGE NO.
SURVEY–
PLOT–

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

GOLD BROOK ROAD BRIDGE

OVER

INTERSTATE 95

IN THE TOWN OF

HAMPDEN

PENOBSCOT COUNTY

N.E.T. & T. UTILITIES - DETAILS

SHEET 18 OF 18 AUGUSTA, MAINE SEPT. 1961

M-1830

K+E 186 IMPERIAL GRAPH PAPER D. L. N. INC. 87471

0 1 2 3 4 5 INCHES