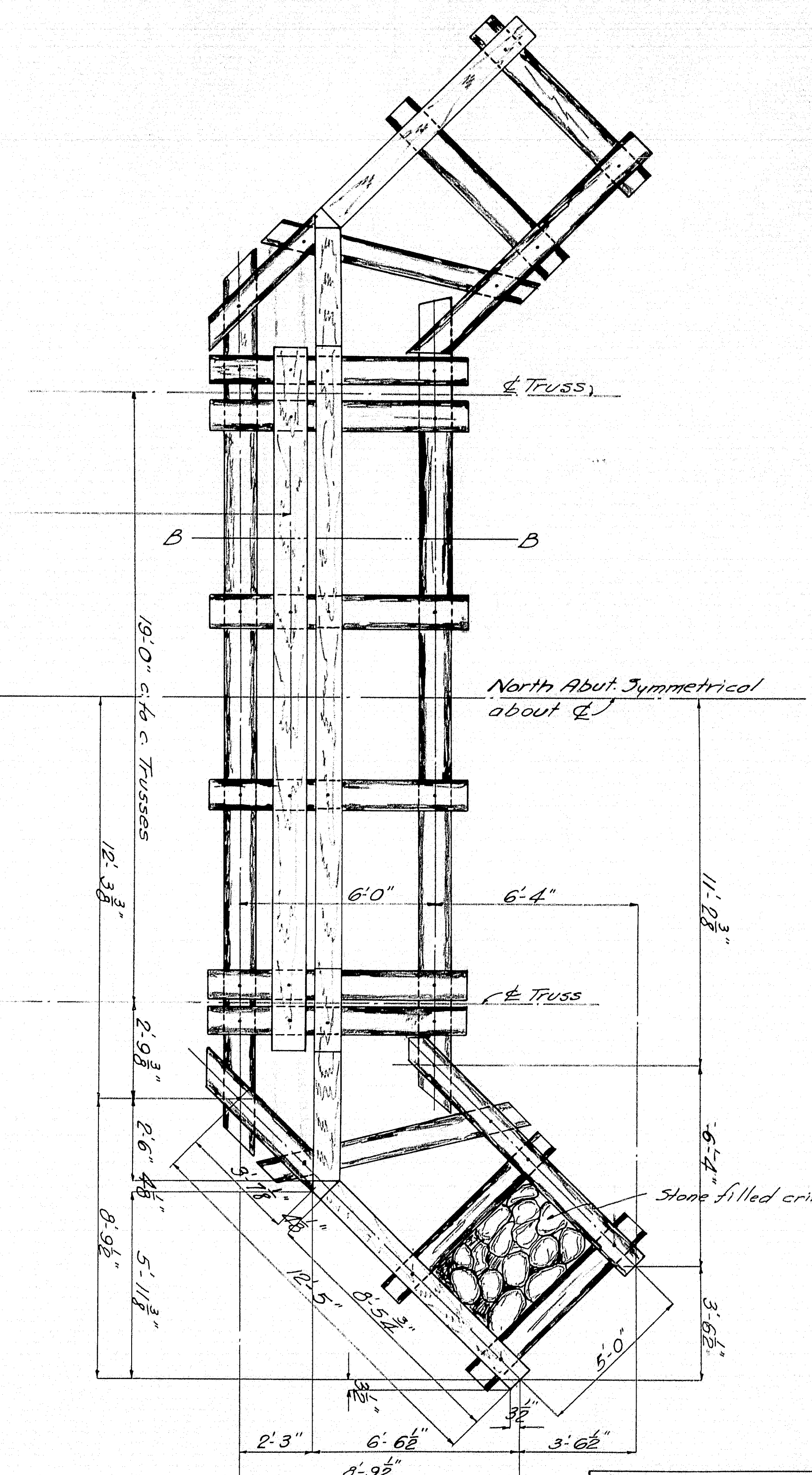
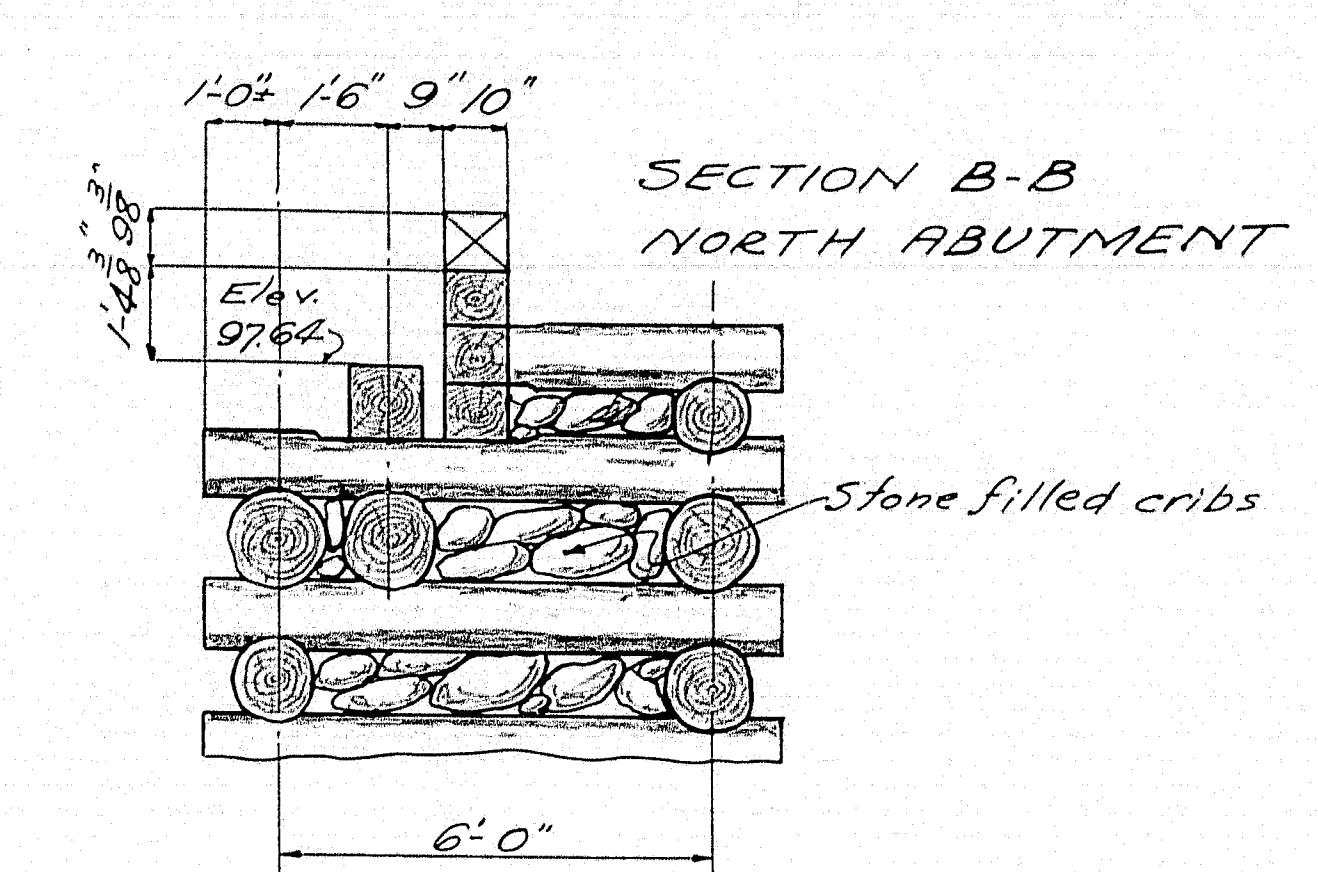


PLAN- NORTH ABUTMENT

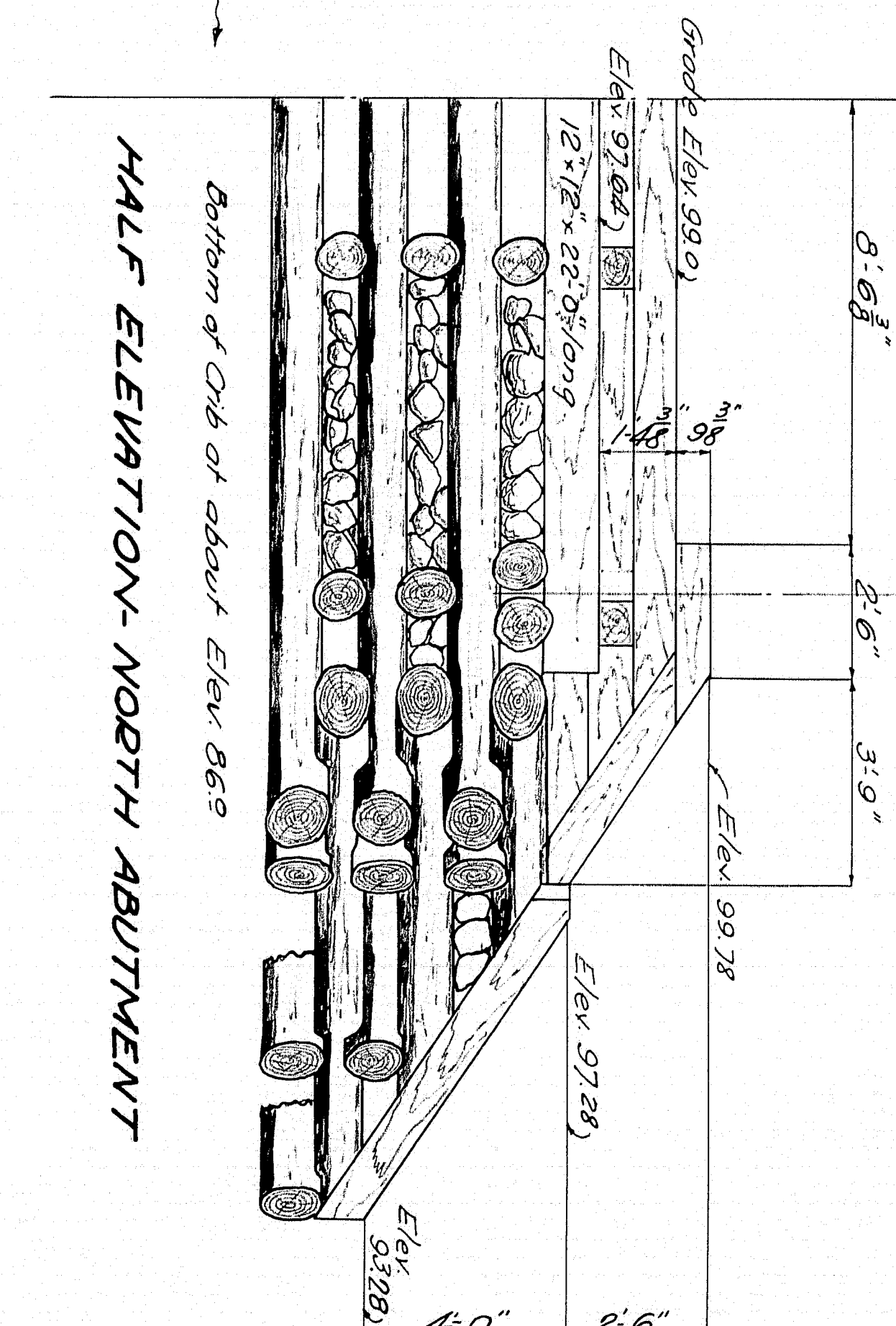


SECTION B-B
NORTH ABUTMENT



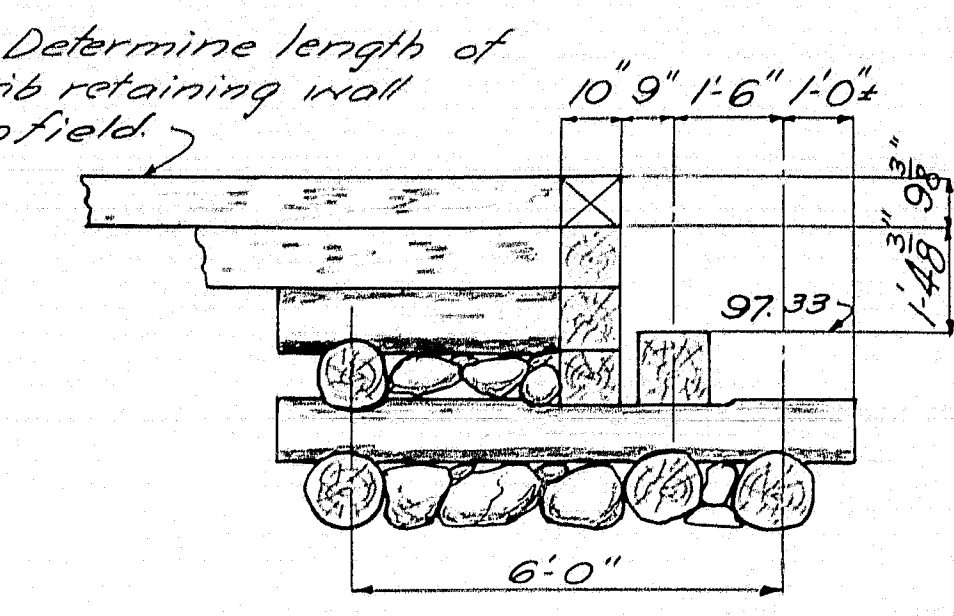
47'-0" c. to c. Truss Bearings
(Steel Pony Truss from White Bridge, Belfast)

HALF ELEVATION- NORTH ABUTMENT



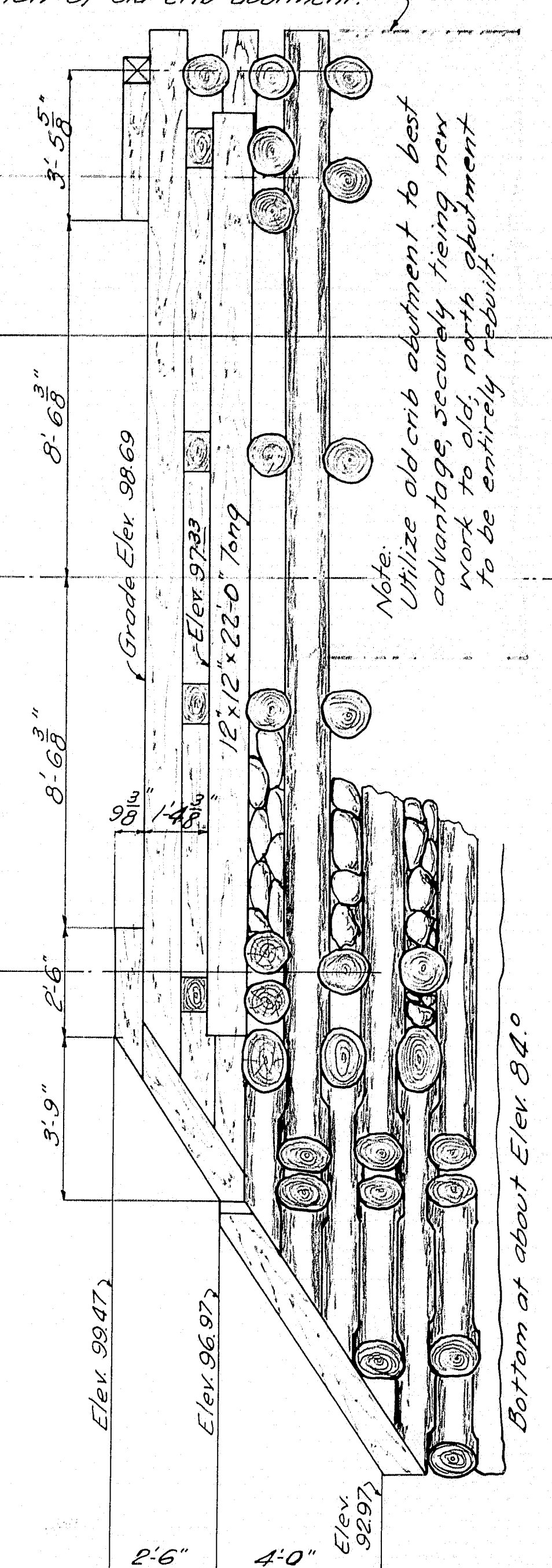
Abutments were altered to provide for superelevation of $\frac{3}{4}$ " per ft.; only parapets altered.

SECTION A-A
SOUTH ABUTMENT
(Showing upstream wing)

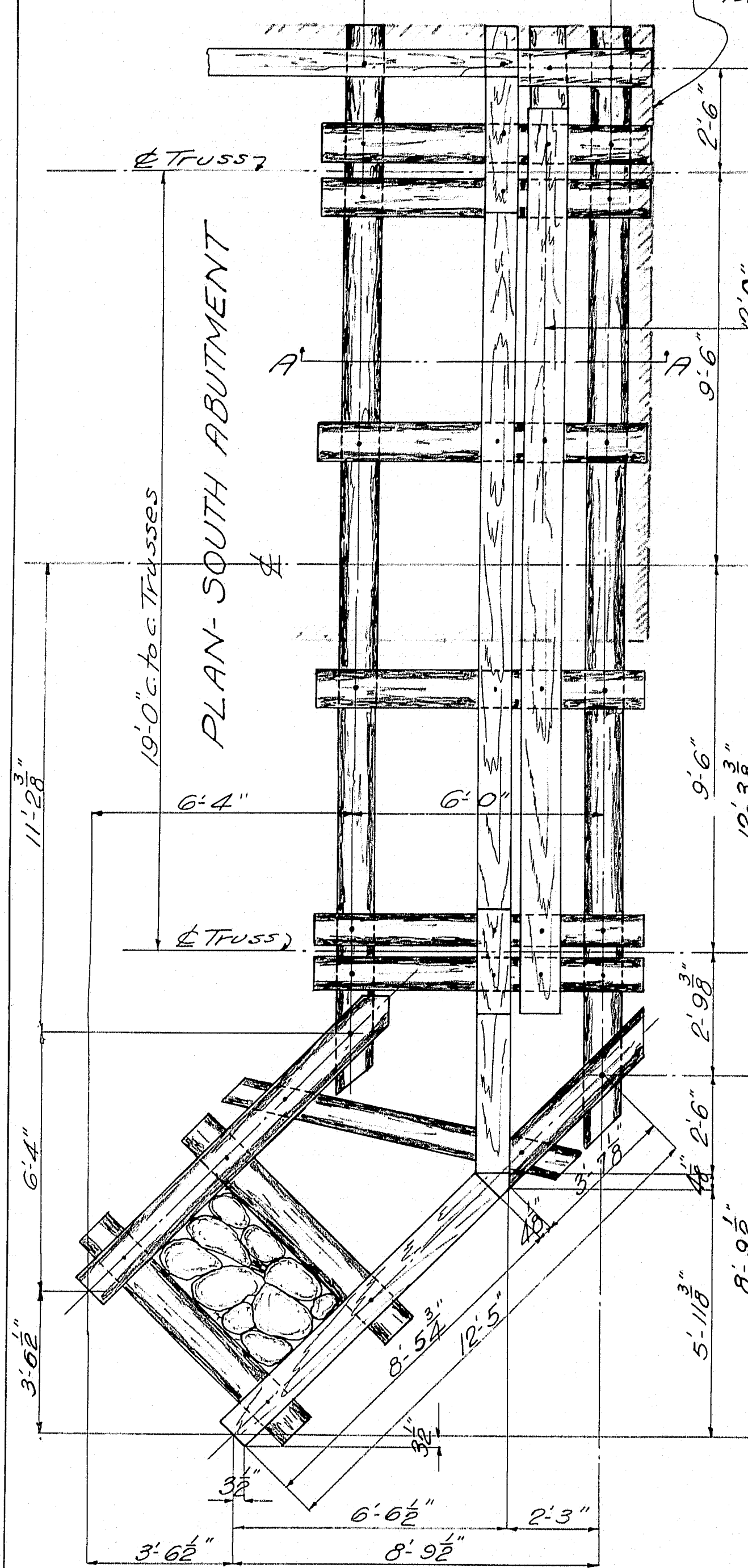


Hatched line shows approx. location of old crib abutment.

ELEVATION- SOUTH ABUTMENT

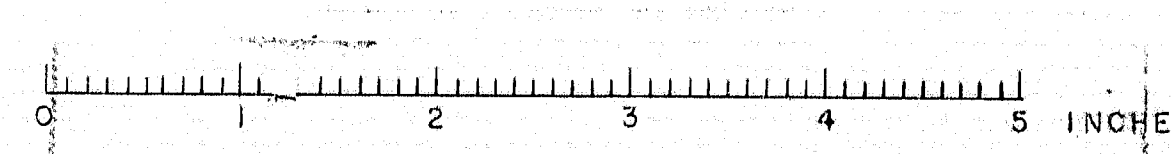


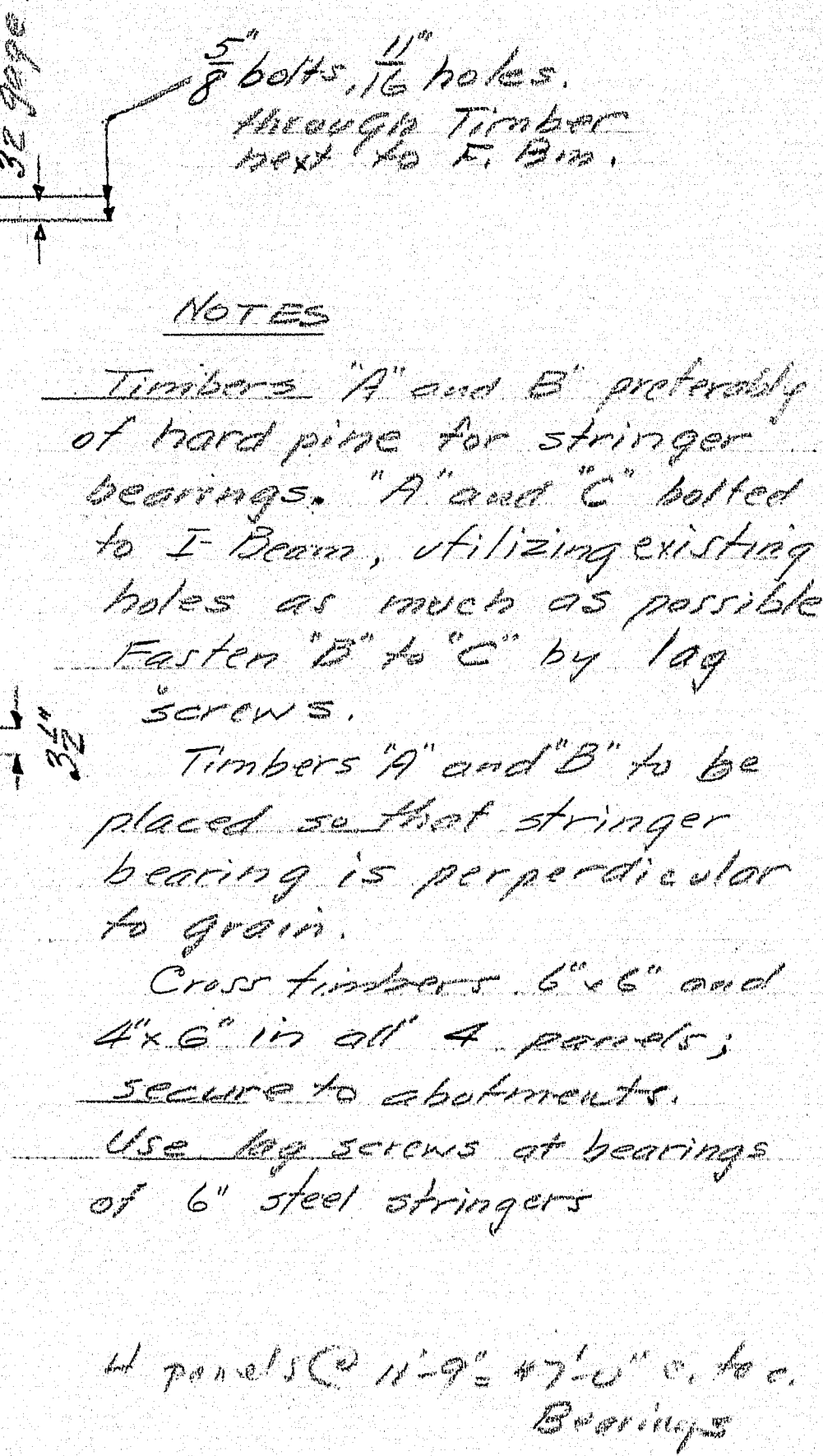
PLAN- SOUTH ABUTMENT

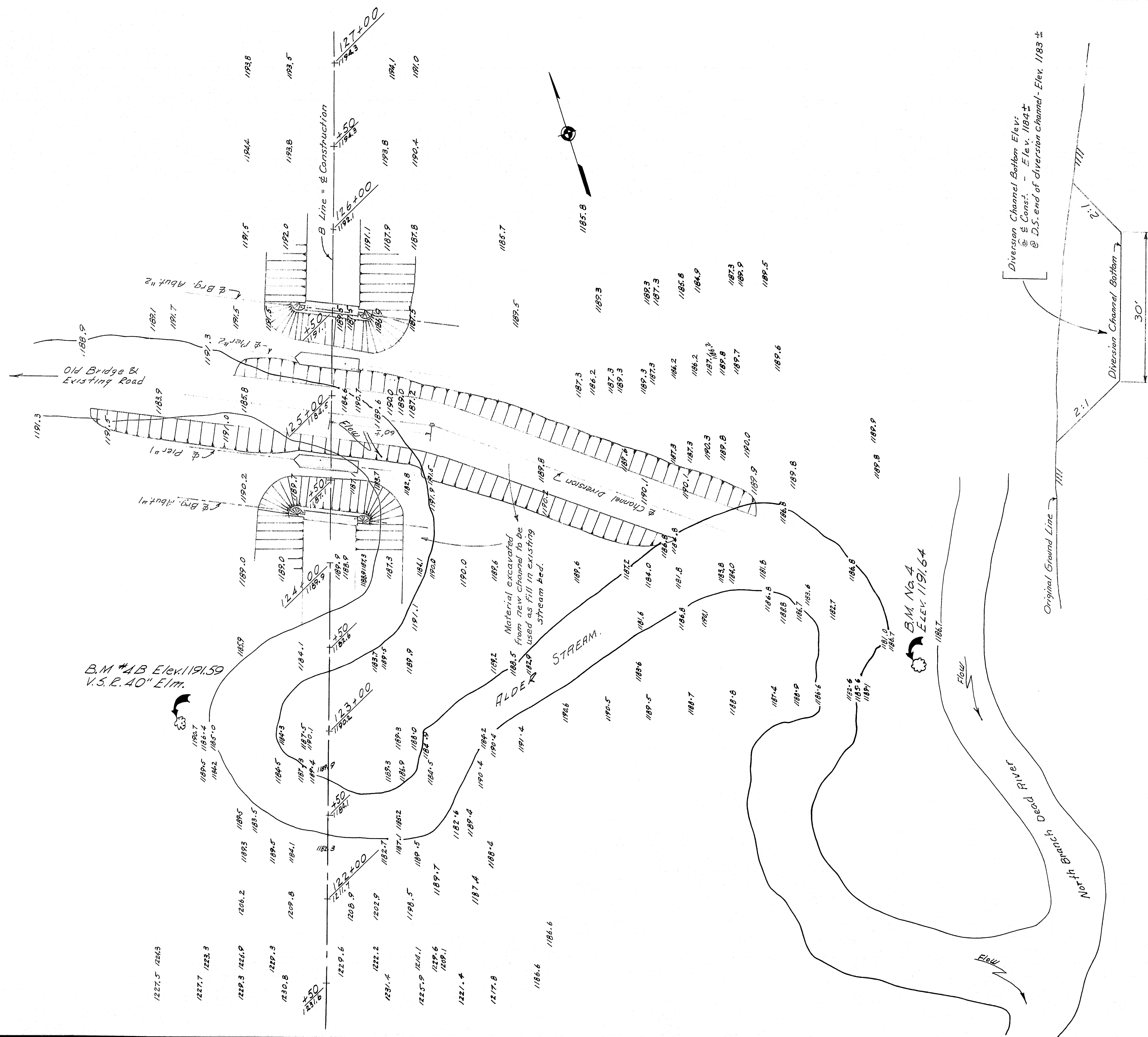


Town. No. 04-35
Bridge 3265
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
ALDER STREAM BRIDGE
IN THE TOWNSHIP OF
JIM POND, FRANKLIN CO.
PLAN OF ABUTMENTS
Sheet (1 of 1) August 10, 1935

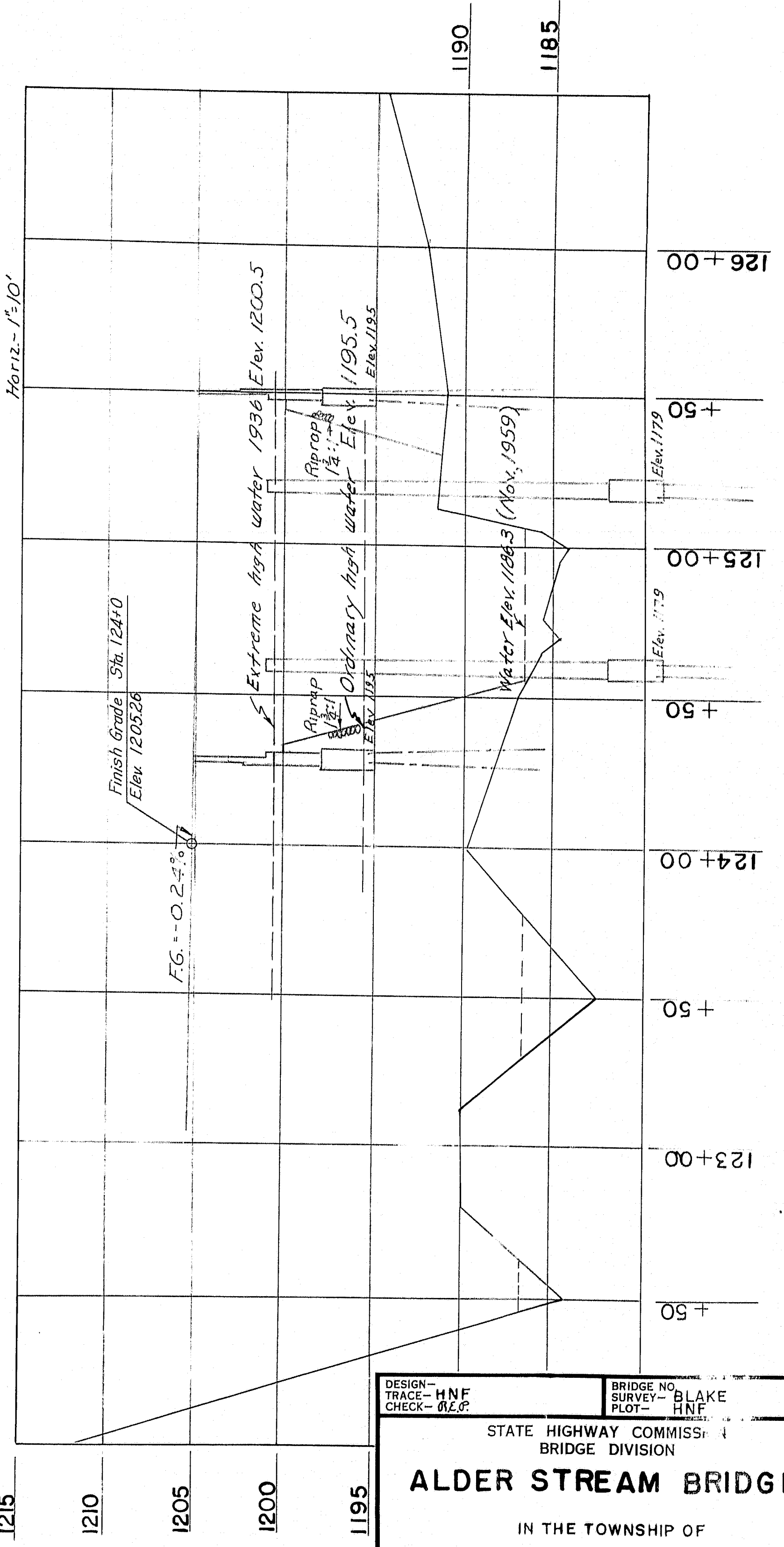
Rev Oct 26, 1935.







TYPICAL SECTION
 Vert. - 1"=5'
 Horiz. - 1"=10'

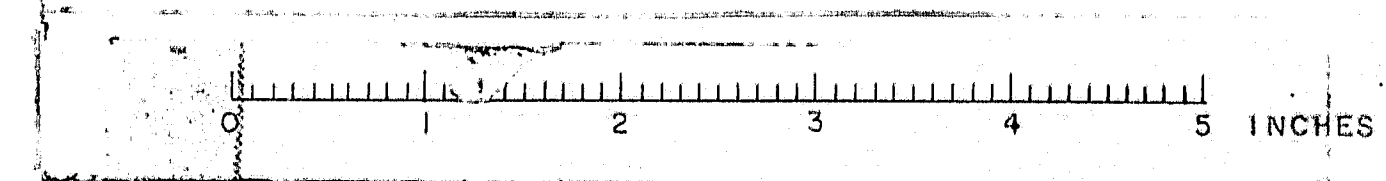


Scale =
 Vert. - 1"=5'
 Horiz. - 1"=30'

PROFILE

DESIGN - HNF TRACE - HNF CHECK - HNF	BRIDGE NO. 1 SURVEY - BLAKE DRAWN - HNF
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ALDER STREAM BRIDGE	
IN THE TOWNSHIP OF	
JIM POND (TIR5)	
FRANKLIN COUNTY	
SURVEY	
SHEET 1 OF 12 AUGUSTA, MAINE NOV. 1959	

M-1570



BORING NOTES

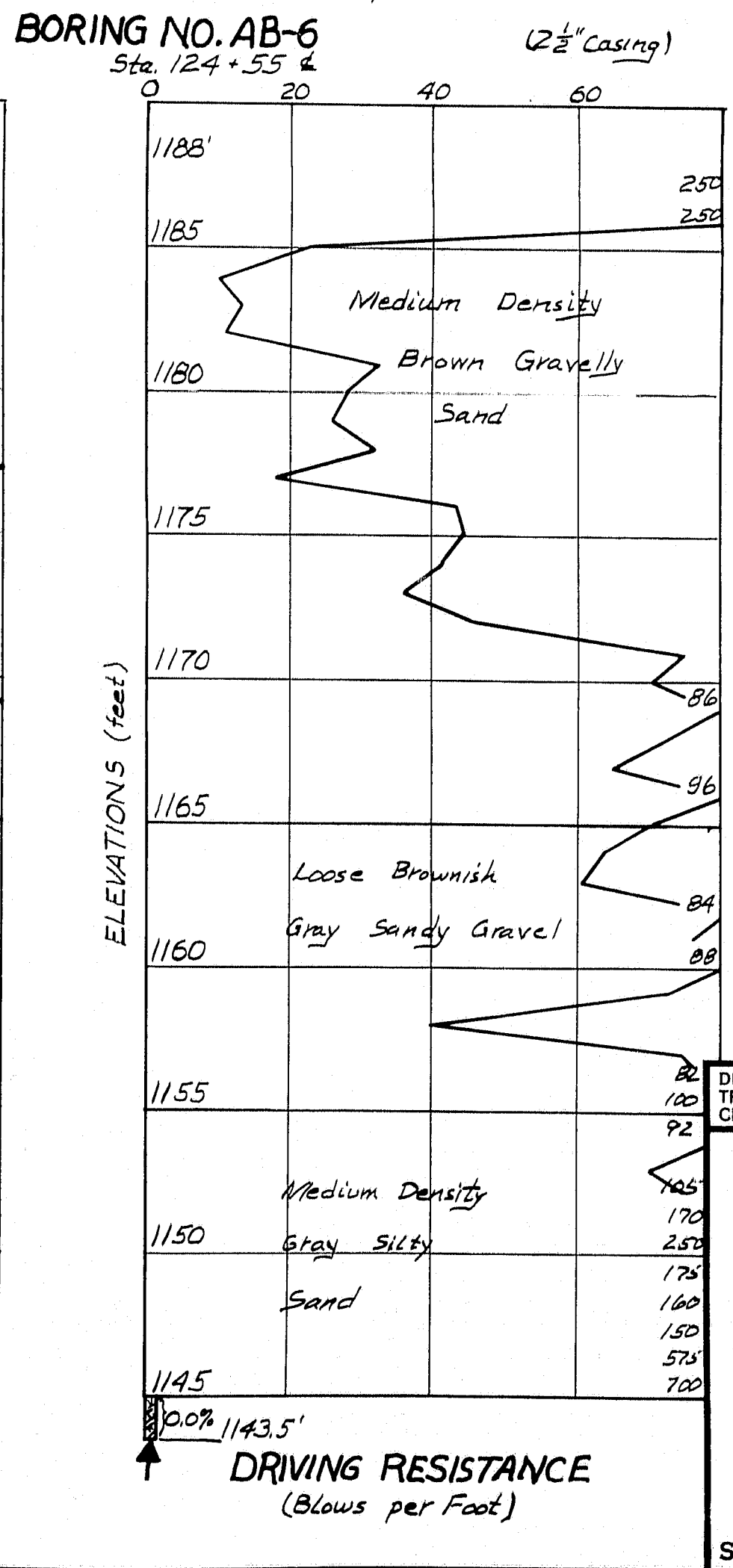
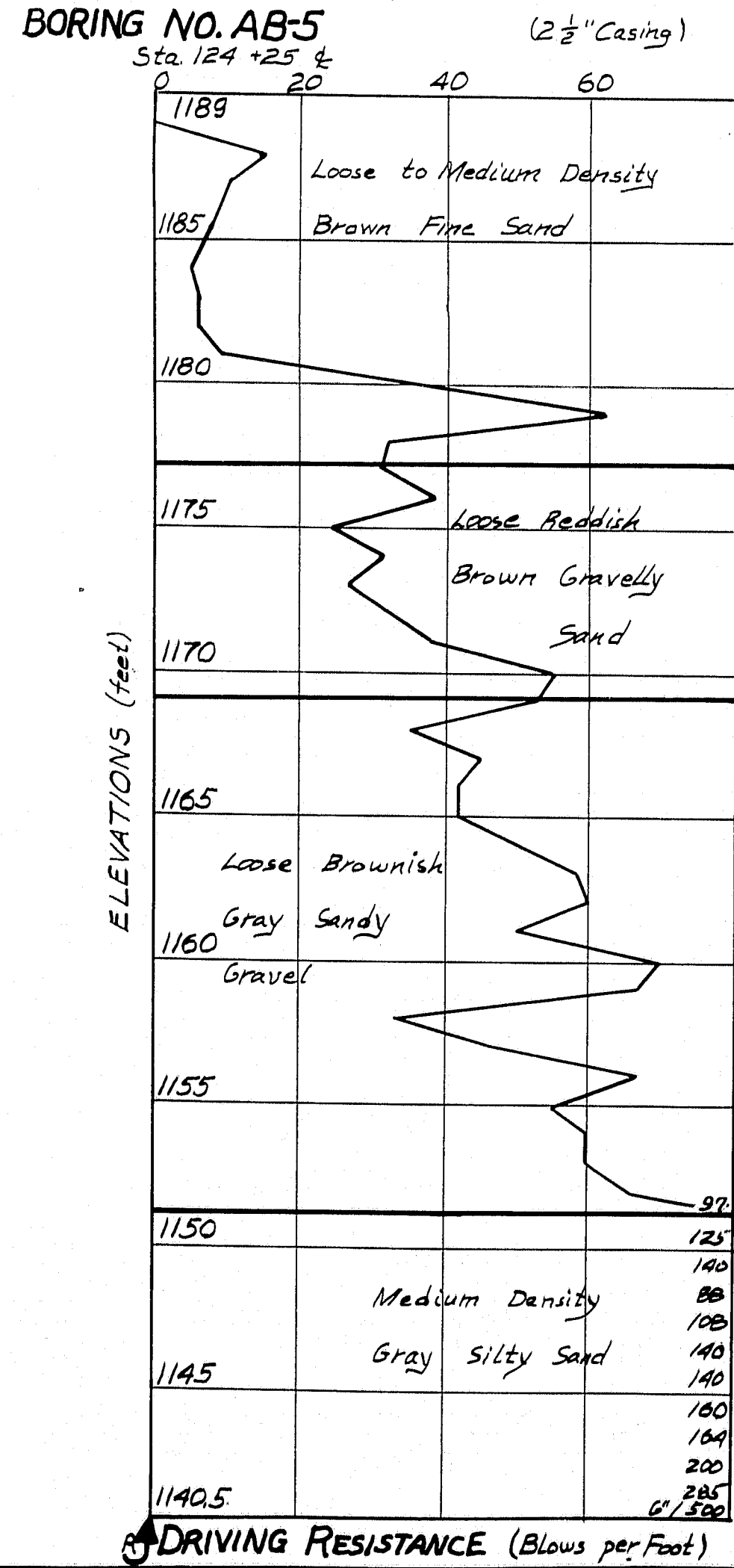
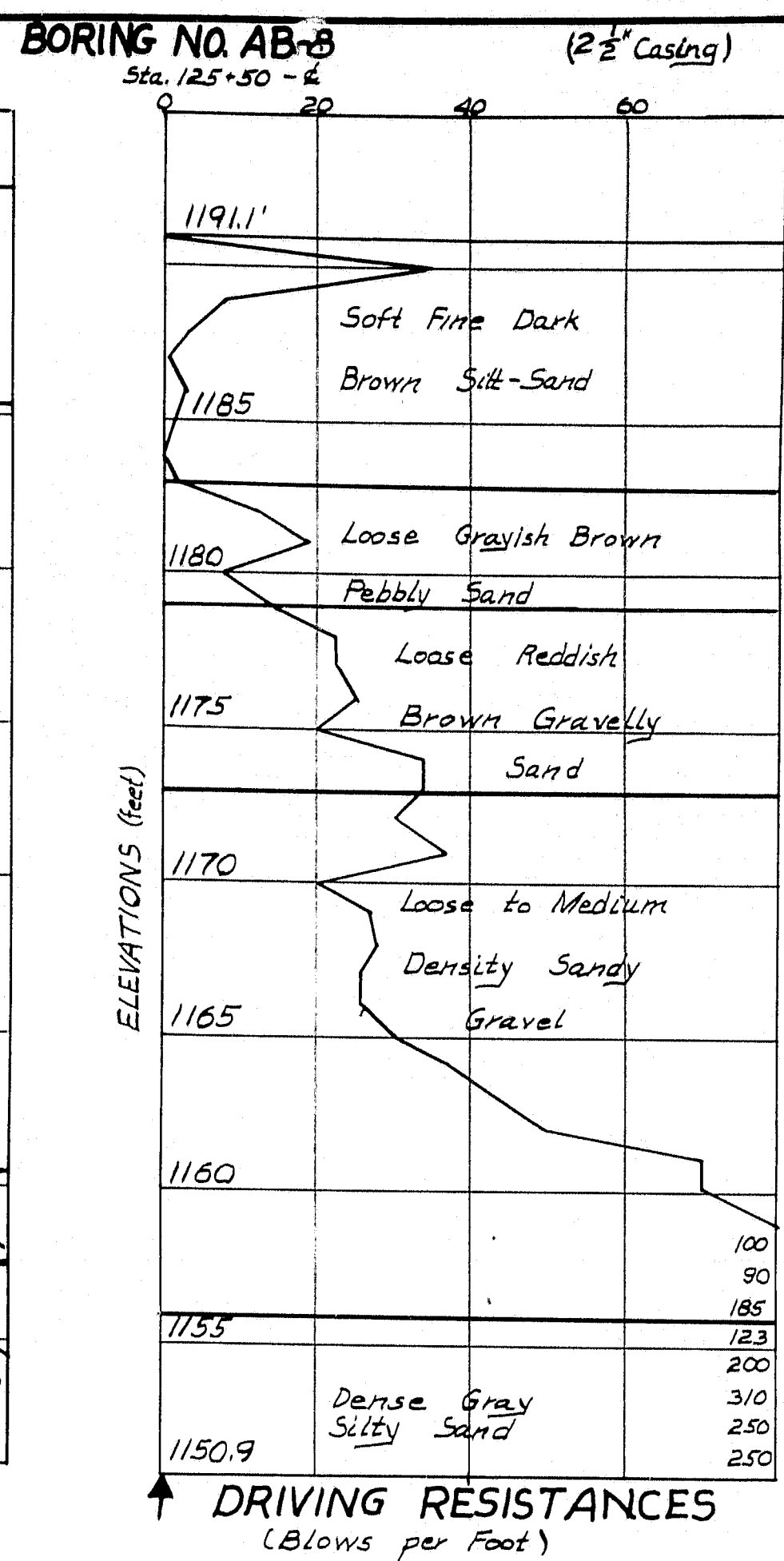
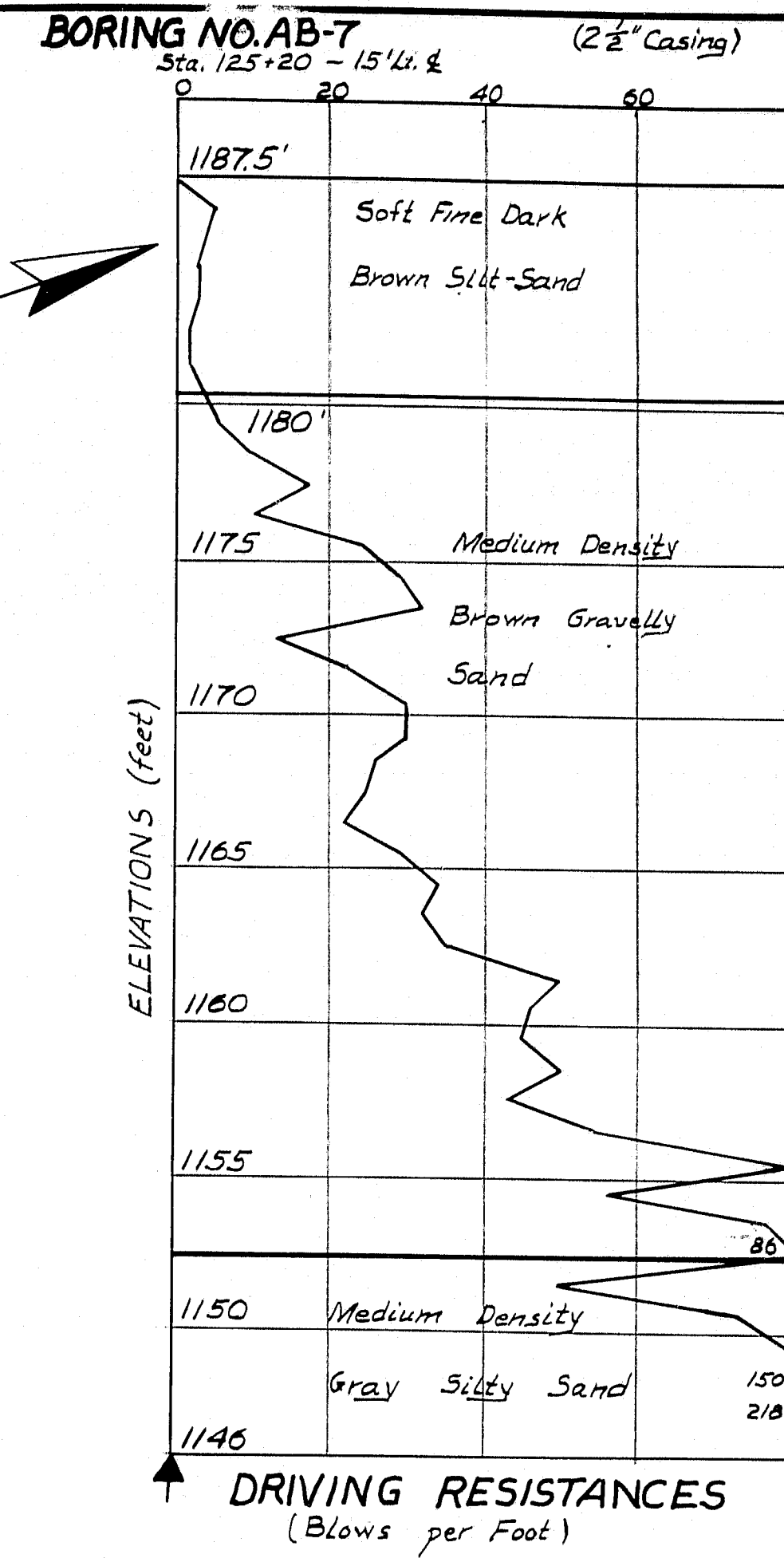
Boring
No. of blows of 275* hammer falling 18 inches required to drive extra heavy casing one foot thus:

Bottom of boring indicated thus:

Refusal of drill rods or casing indicated thus:

Percent recovery of rock core by diamond bit thus:

NOTE:
For further information concerning the subsurface conditions at the bridge site reference is made to a report by the Soils Division of the State Highway Commission, dated March, 1961. This report is available at the Bridge Division, S.H.C., Augusta, Maine, and also at the Soils Engineering Laboratory, U.M.I., Orono, Maine. Samples of soils recovered in the borings are available for inspection at the above named laboratory.



DESIGN - BOYCE
TRACE - JHW
CHECK - GLEP

BRIDGE NO. 120
SURVEY - PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ALDER STREAM BRIDGE

IN THE TOWNSHIP OF

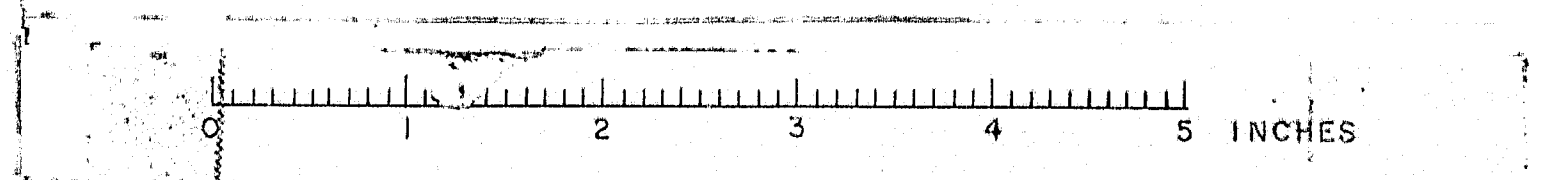
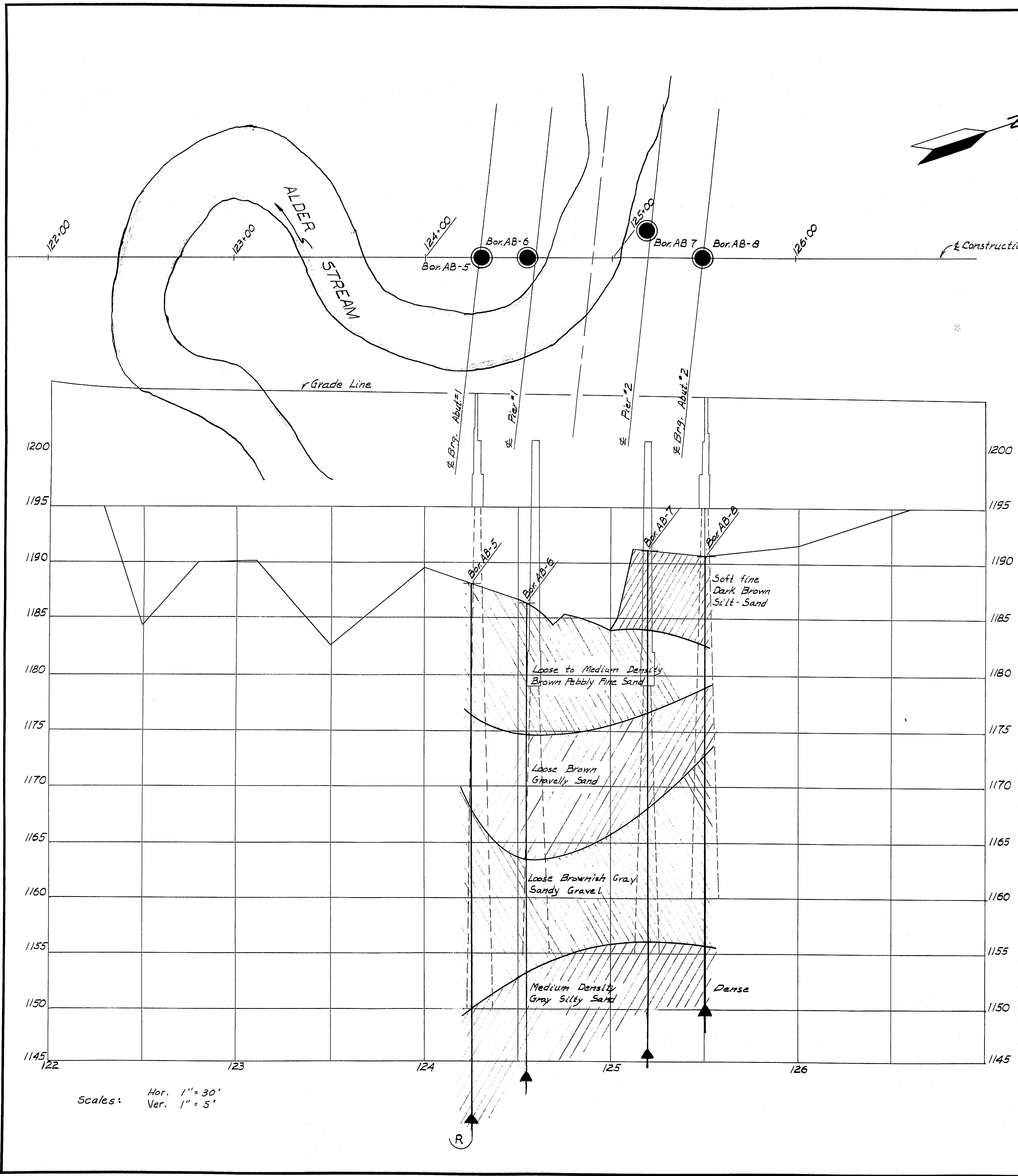
JIM POND (TR5)

FRANKLIN COUNTY

SOILS SURVEY

SHEET 2 OF 12 AUGUSTA, MAINE MARCH, 1961

M-1571



ESTIMATE OF QUANTITIES

Item	Description	Quantity	Unit
204-14	Structural Earth Excavation - Piers	300	C.Y.
204-16	Structural Earth Excavation - Channel	1820	C.Y.
205-9	Granular Borrow	1000	C.Y.
302-7	Gravel Base Course - I.P.M.	30	C.Y.
701-33	P.C.C. - Abutments and Retaining Walls	80	C.Y.
701-35	P.C.C. - Piers	287	C.Y.
701-40	P.C.C. - Roadway and Sidewalk Slabs on Steel Br.	130	C.Y.
701-44	P.C.C. - Wearing Surface on Bridges	30	C.Y.
701-46	P.C.C. - Rail	251	L.F.
701-47	Portland Cement	745	Bbl.
702-103	Structural Steel, Fabricated & Delivd	94,700	Lbs
702-104	Structural Steel, Erection	94,700	Lbs
702-105	Structural Steel, Field Painting	94,700	Lbs
703-9	Bronze Bearing Plates, Delivered	54	Lbs
703-10	Bronze Bearing Plates, Placing	54	Lbs
705-13	Reinforcing Steel, Delivered	41,250	Lbs
705-14	Reinforcing Steel, Placing	41,250	Lbs
705-17	Shear Connectors	L.S.	
708-14	Timber Piles, Untreated	1560	L.F.
711-6	Cast-in-Place Concrete Piles	810	L.F.
803-7	Cofferdams (Piers)	L.S.	
901-21	Granite Bridge Curb	260	L.F.
905-31	Anchorage for Type "B" Guard Rail	4	Each
907-10	Hand-Laid Riprap	425	C.Y.
907-9	Plain Riprap	75	C.Y.

CONTRACT SPECIFICATIONS:
 State of Maine, State Highway Commission
 Standard Specifications, Revised Jan. 1956 and
 "Supplemental Specifications," Feb. 1960

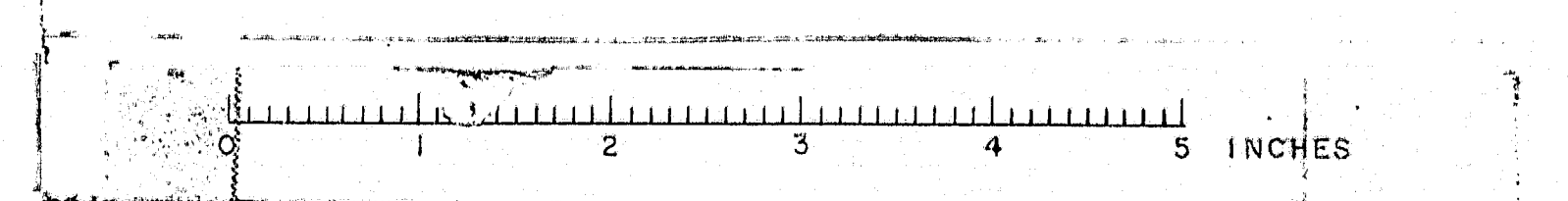
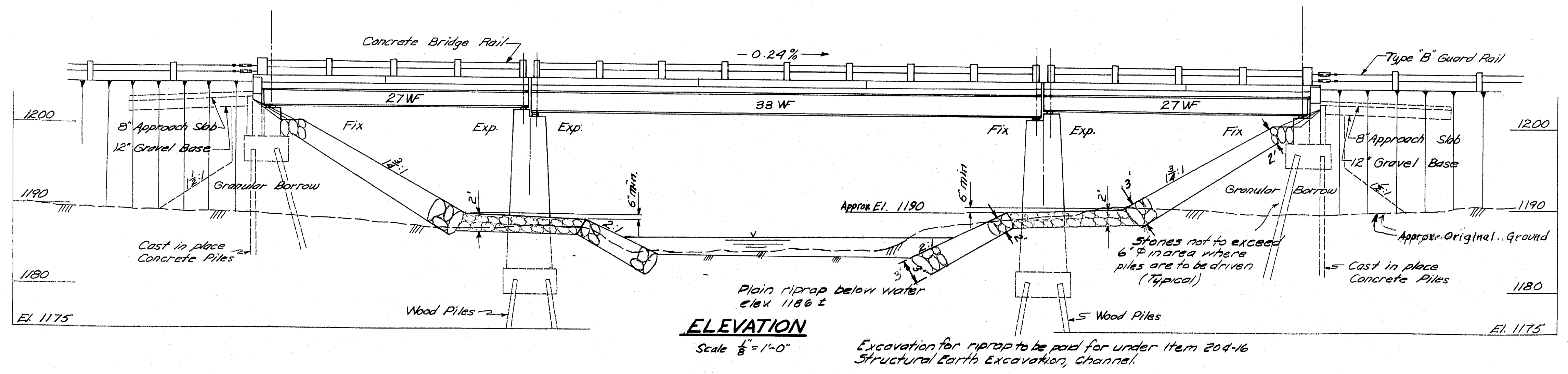
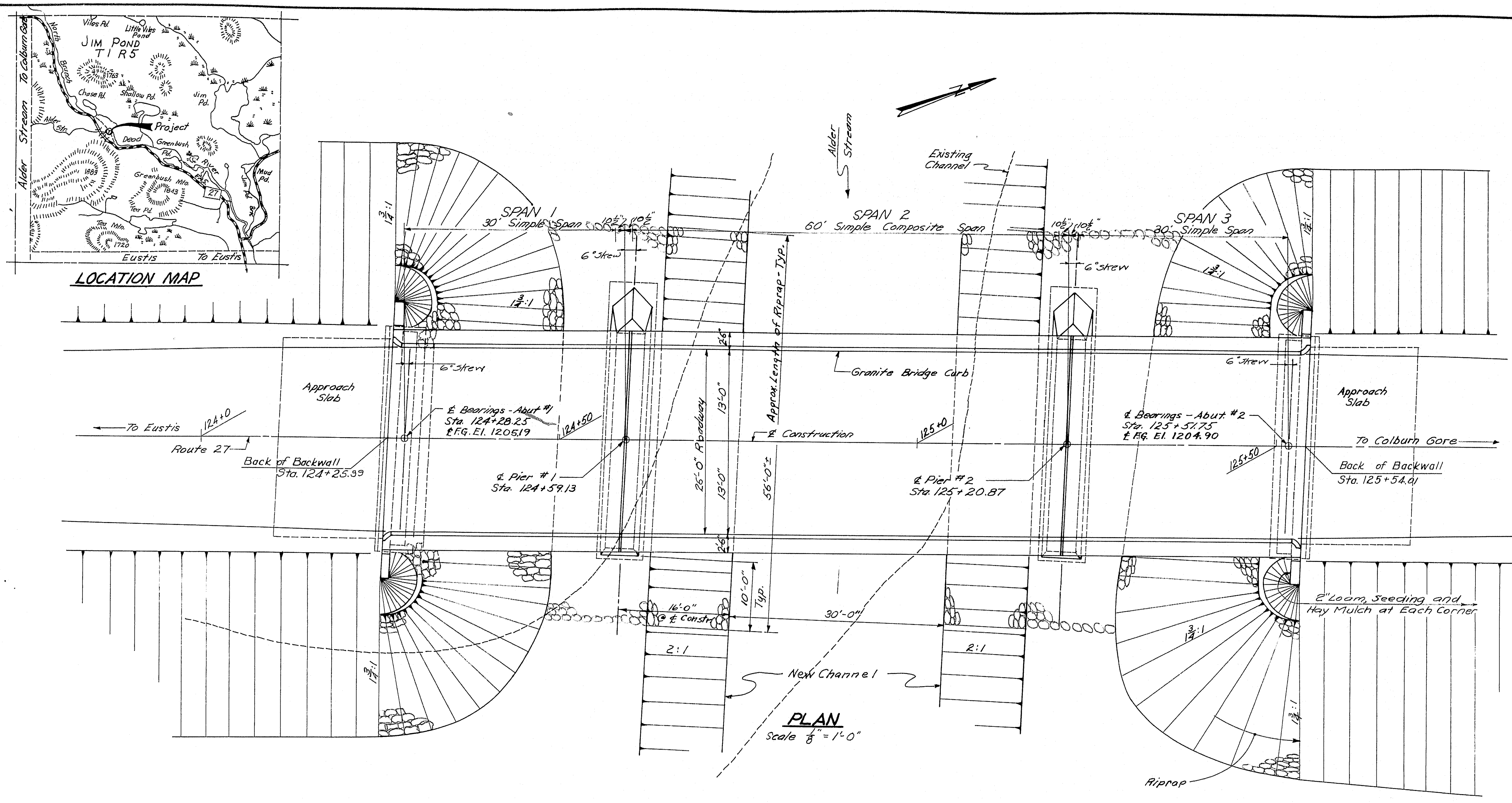
DESIGN SPECIFICATIONS:
 A.A.S.H.O. Standard Specs. for Highway Bridges 1957.
 f_s (Structural) = 18,000 f_s (Reinforcing) = 20,000
 f_c = 1200; n = 10

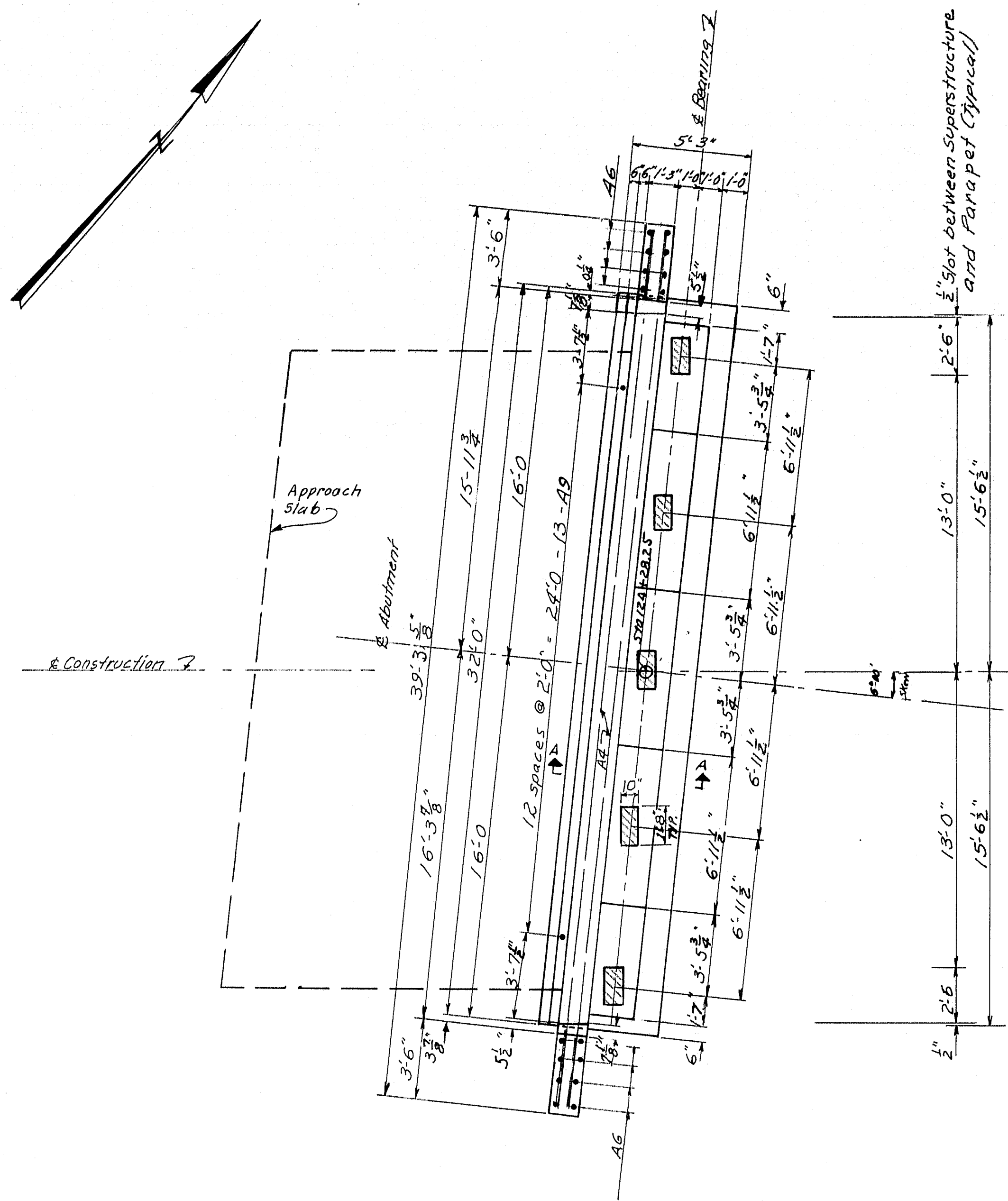
LOADING:
 H20-S16-44

CONCRETE CLASSIFICATION:
 Abutments & Approach Slabs Class A
 Piers Class B
 Superstructure & Wearing Surface Class A
 Rail Posts & Bars Class Y
 Cast in Place Piles Class Y

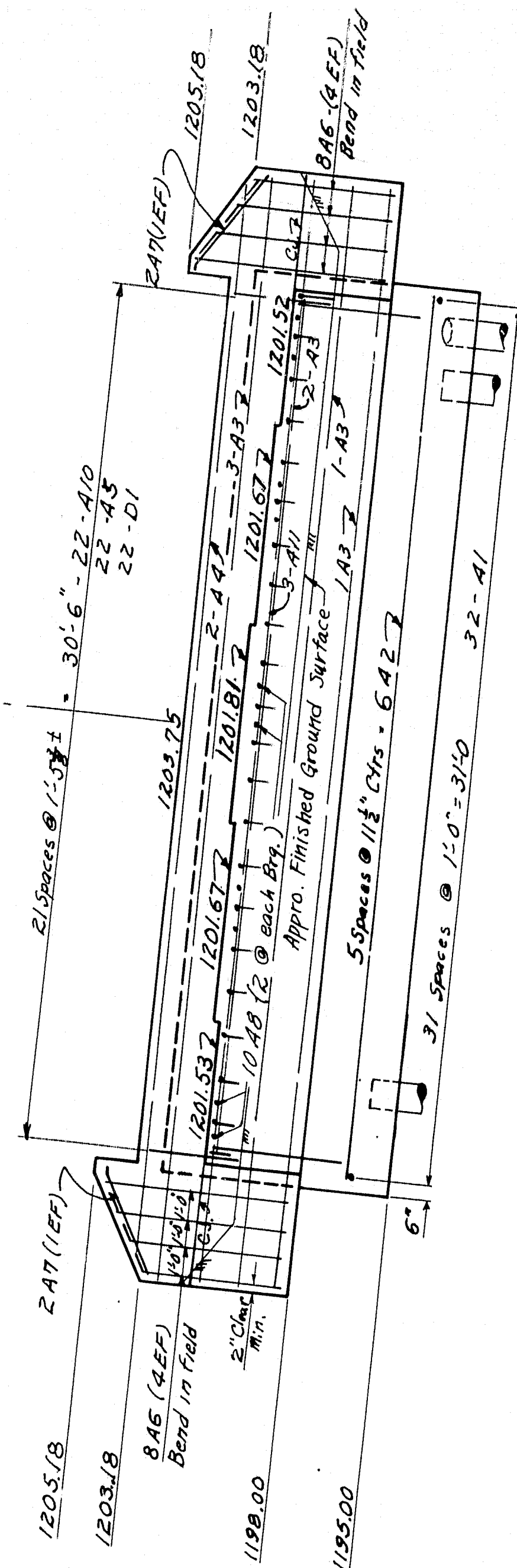
DESIGN - C.D.H. TRACE - R.D.S. CHECK - O.C.B.	BRIDGE NO.
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ALDER STREAM BRIDGE	
IN THE TOWNSHIP OF	
JIM POND (TIR5)	
FRANKLIN COUNTY	
GENERAL PLAN AND ELEVATION	
SHEET 3 OF 12 AUGUSTA, MAINE MARCH 1961	

M-1572



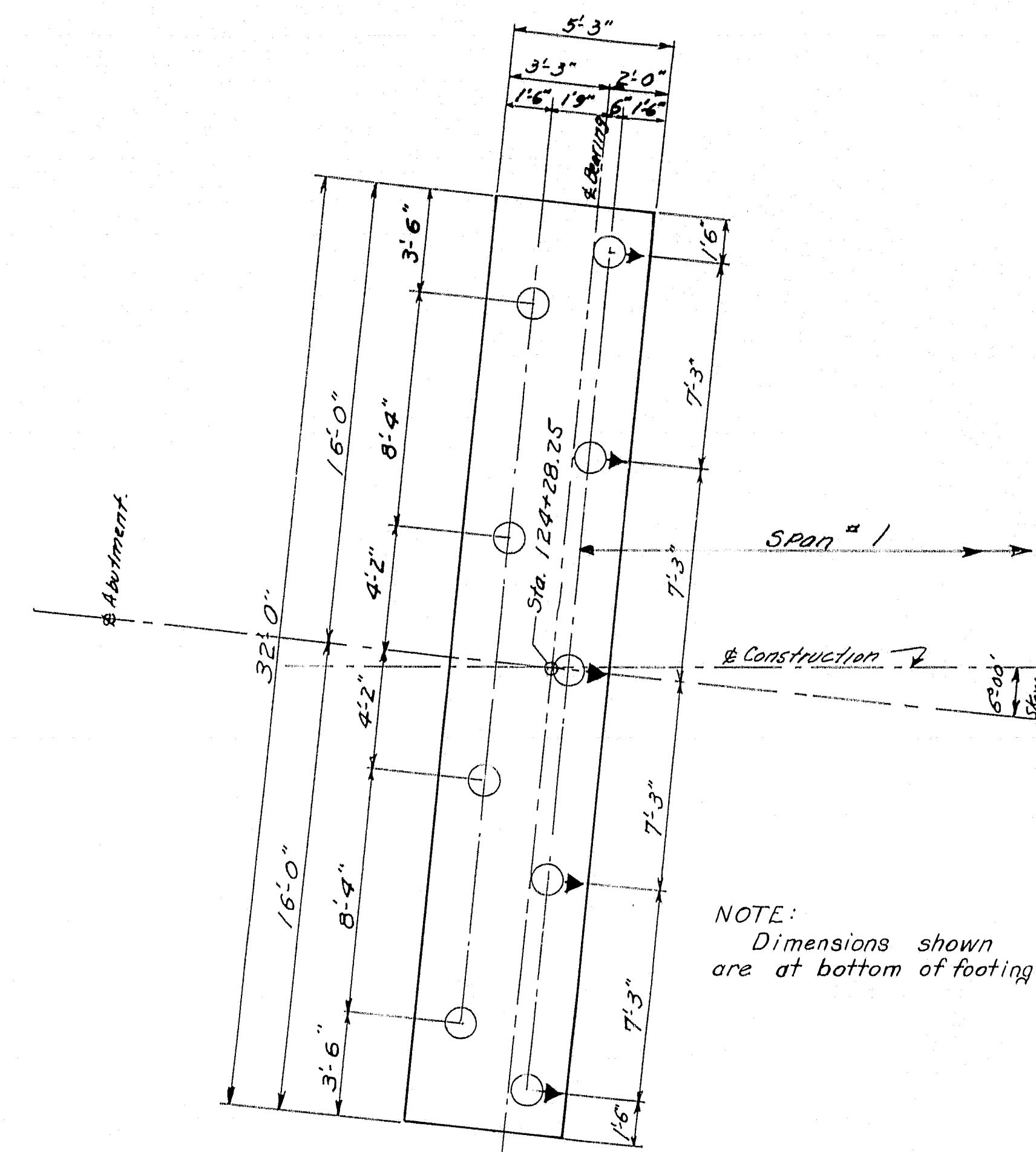


PLAN



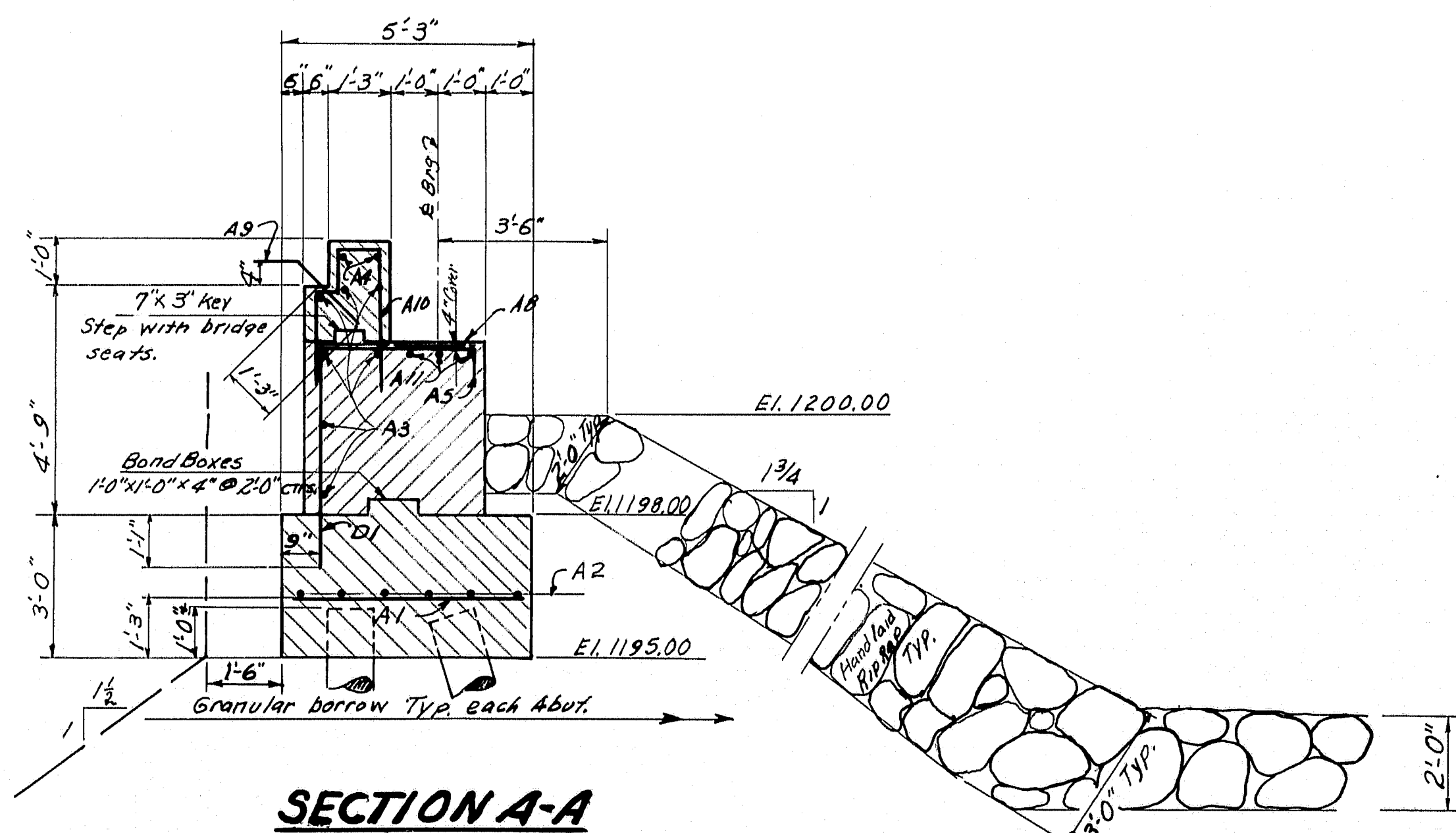
FRONT ELEVATION

- ~PILE NOTES~**
- (1) Nine (9) Cast in place concrete piles in each Abutment.
 - (2) Maximum Pile Load = 30 Tons.
 - (3) Piles marked 'O' to be battered 3'/ft in direction of arrow.
 - (4) Estimated length of Piles Abutment #1 = 50' Abutment #2 = 40'



FOOTINGS & PILE PLAN

NOTE:
Dimensions shown
are at bottom of footing.



SECTION A-A

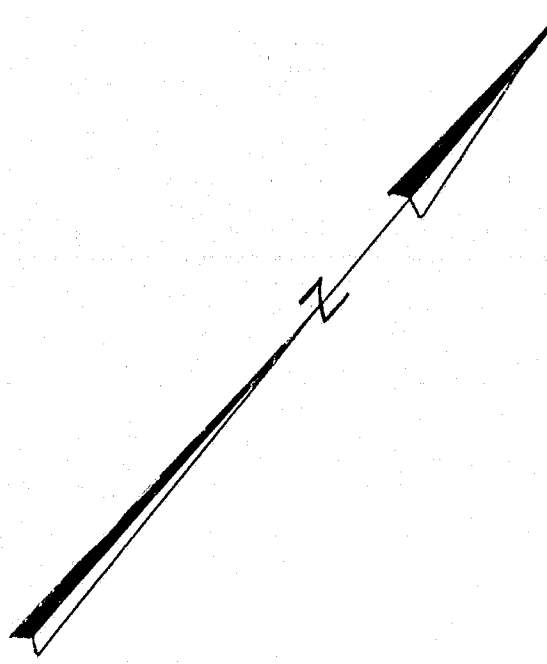
~GENERAL NOTES~

- (1) Place Reinforcing Steel in Bridge Seats to Clear Anchor bolts.
- (2) Dress shaded bearing areas to exact elevations shown.
- (3) Before Piles are driven, granular borrow shall be placed to bottom of footing elevations.
- (4) Cover the 1/2" open slots between the Superstructure and Parapets on the back side with two layers of heavy roofing 10" wide, coat the concrete and the back of each layer as applied with a suitable grade of roofing cement. Recess area to be covered 1/2" by nailing 1" thick strips to forms before placing concrete.

DESIGN - C.D.H. DETAIL - G.E.A.	BRIDGE NO.
TRACE - G.E.A.	SURVEY -
CHECK - G.E.A.	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
ALDER STREAM BRIDGE	
IN THE TOWNSHIP OF	
JIM POND (TIR5)	
FRANKLIN COUNTY	
ABUTMENT NO. 1	
SHEET 4 OF 12 AUGUSTA, MAINE MARCH 1961	

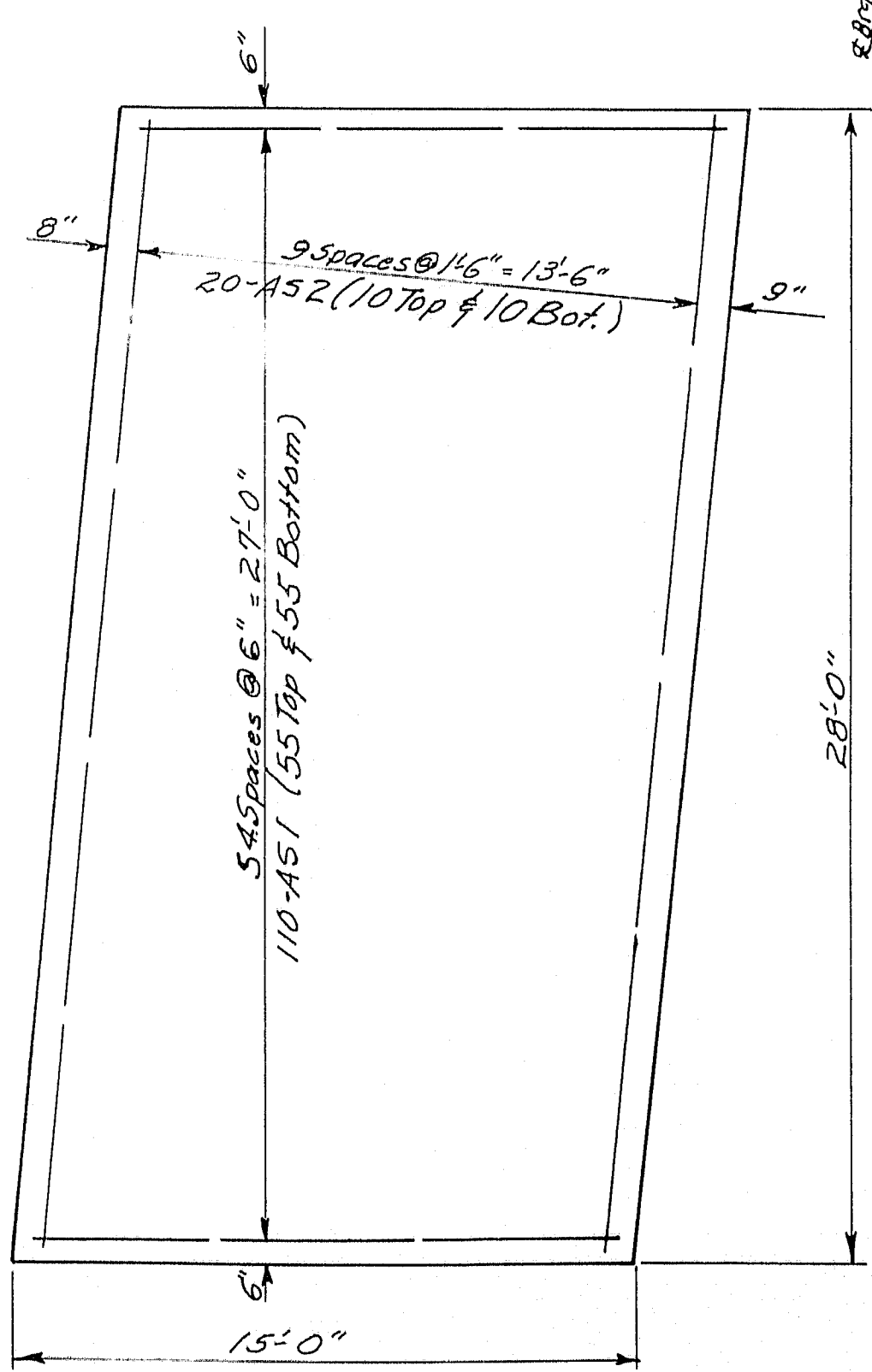
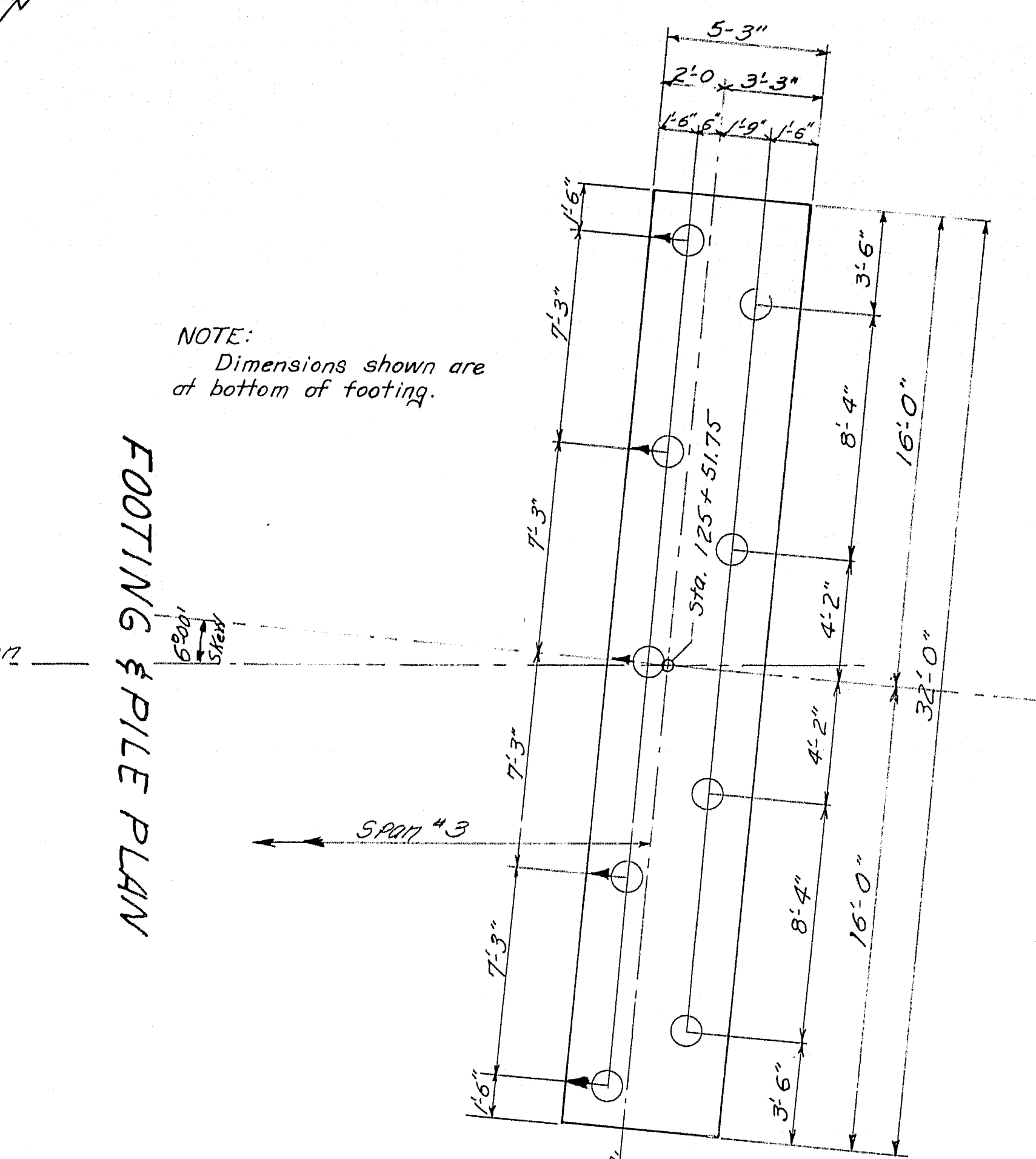
M-1573

S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	5-0237(8)	11	38



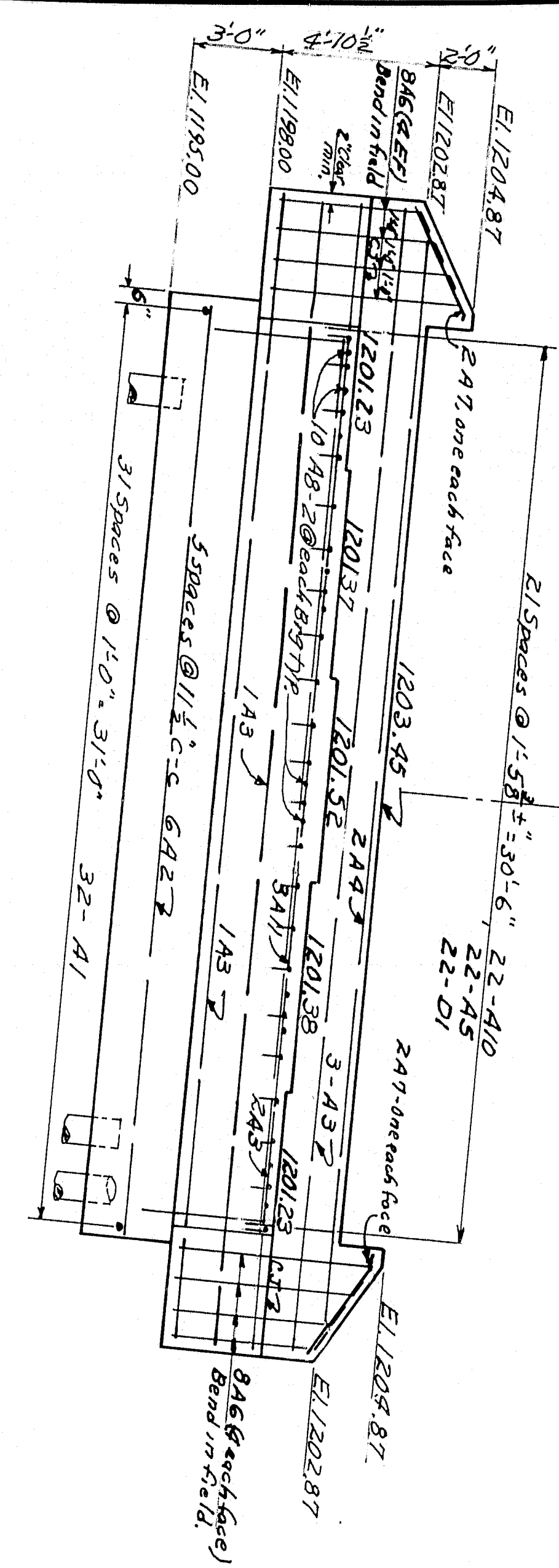
NOTE:
Dimensions shown are
at bottom of footing.

FOOTING & PILE PLAN

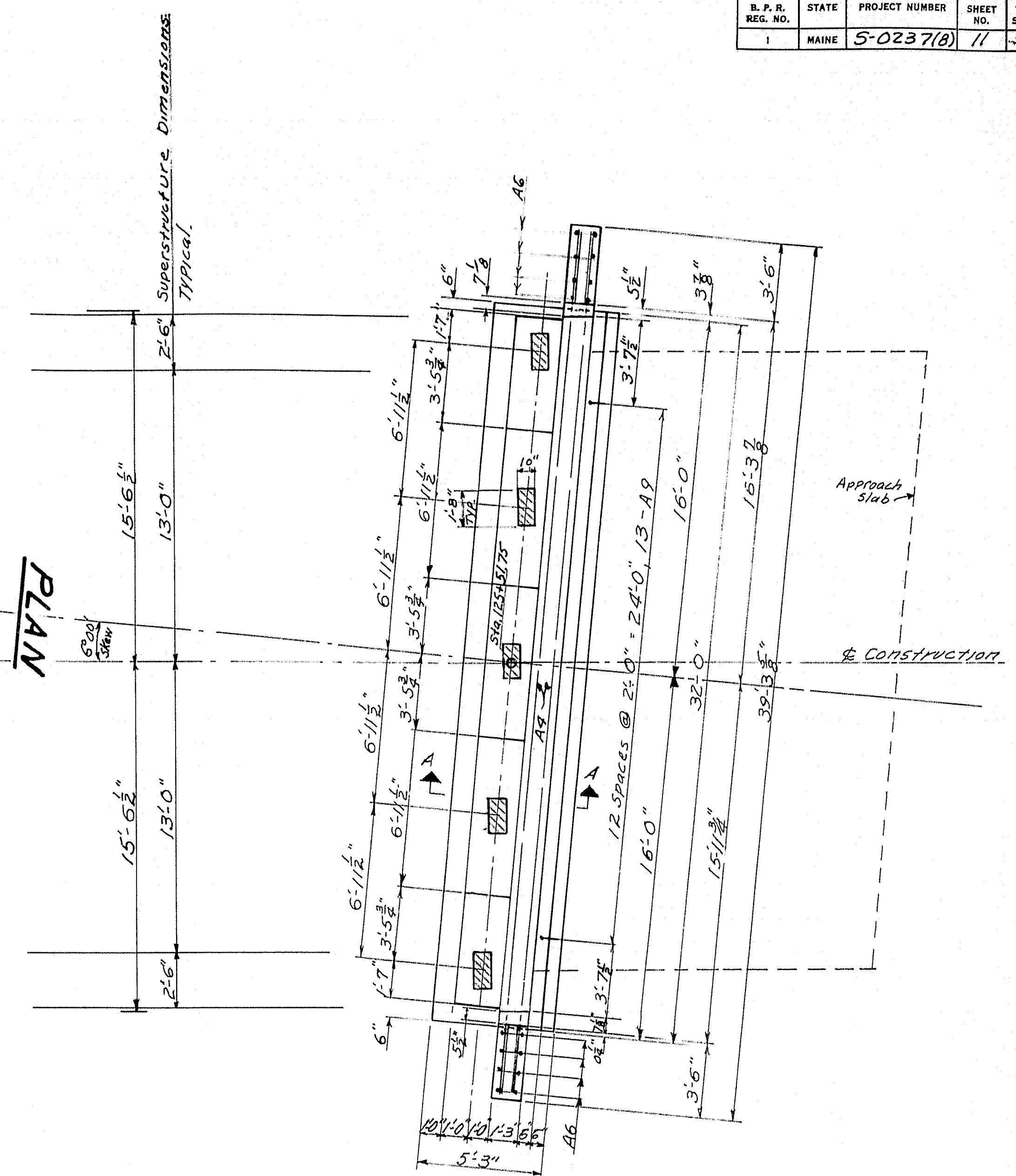


PLAN

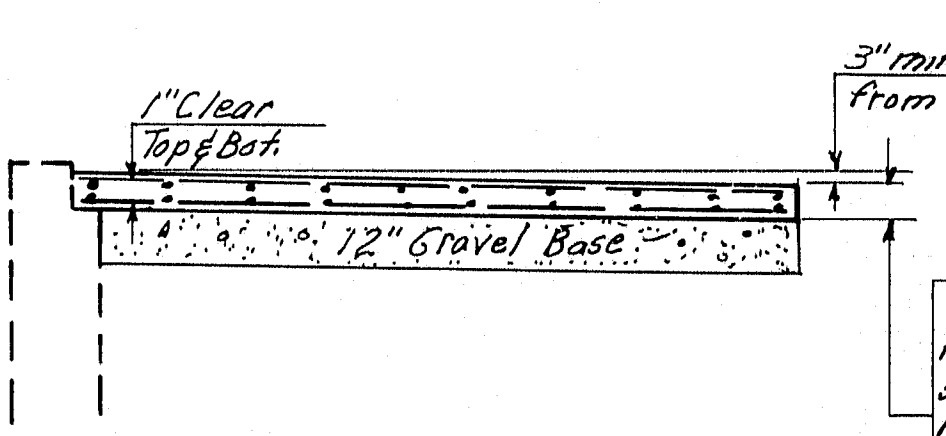
FRONT ELEVATION



PLAN



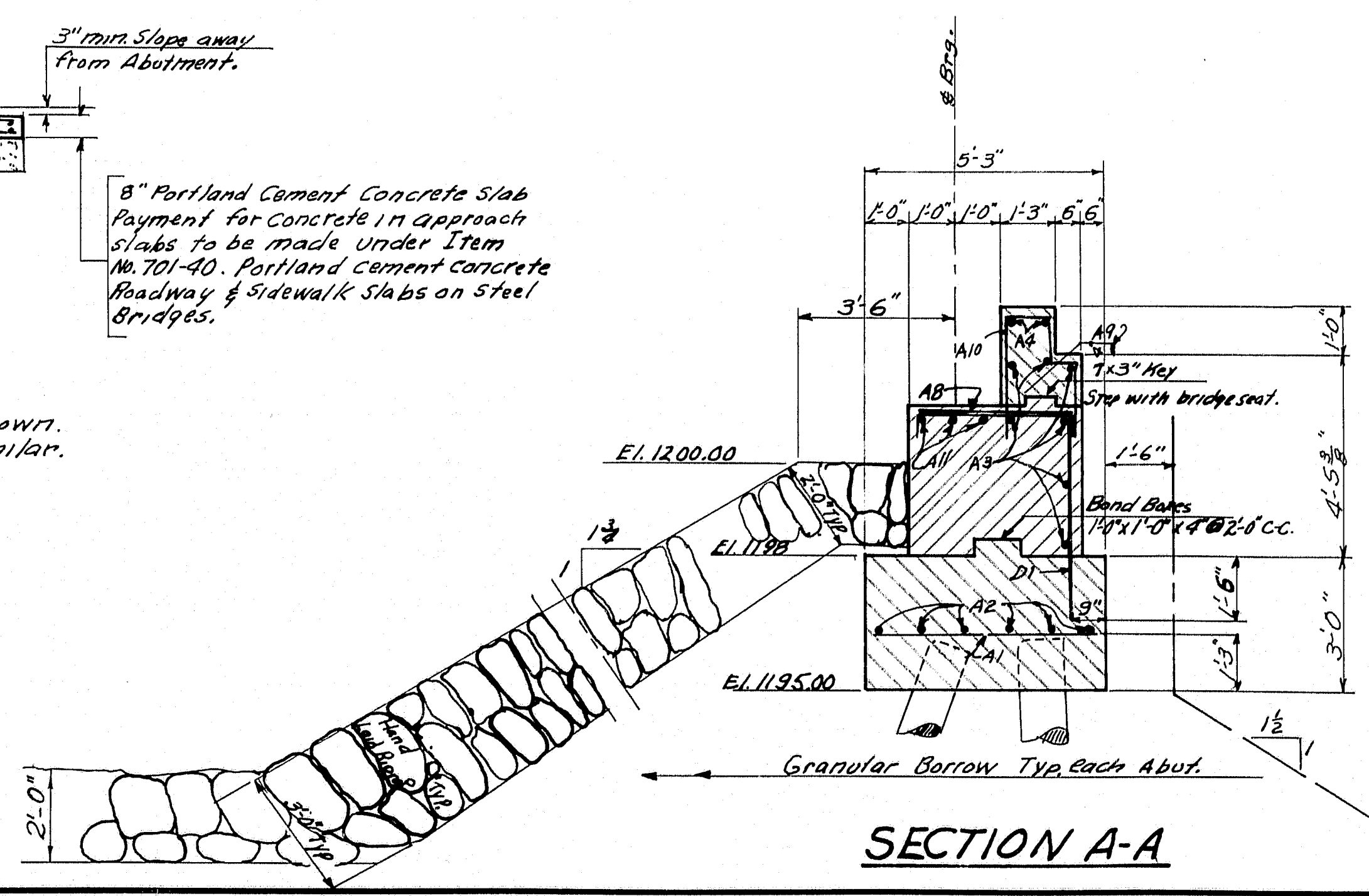
NOTE-
For pile notes see Sheet # 4



SECTION

Slab at Abutment No 2 shown.
Slab at Abutment No 1 similar.

APPROACH SLAB DETAILS



SECTION A-A

DESIGN- C. O. H. DETAIL- G. E. A.	BRIDGE NO.
TRACE- G. E. A.	SURVEY- PLOT-
CHECK- G. E. A.	

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ALDER STREAM BRIDGE

IN THE TOWNSHIP OF

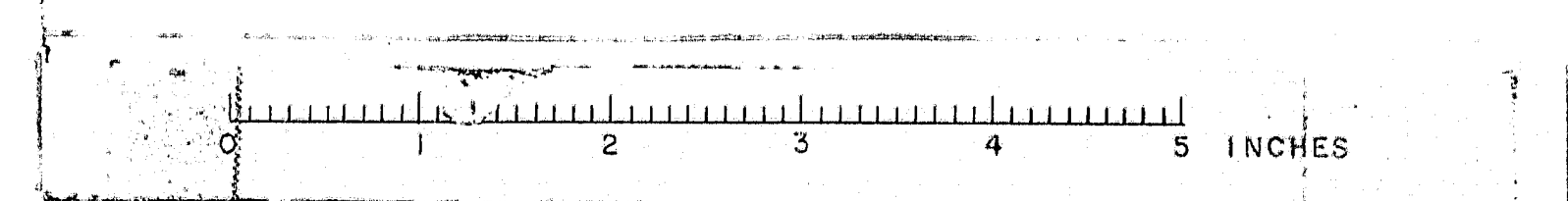
JIM POND (TIR5)

FRANKLIN COUNTY

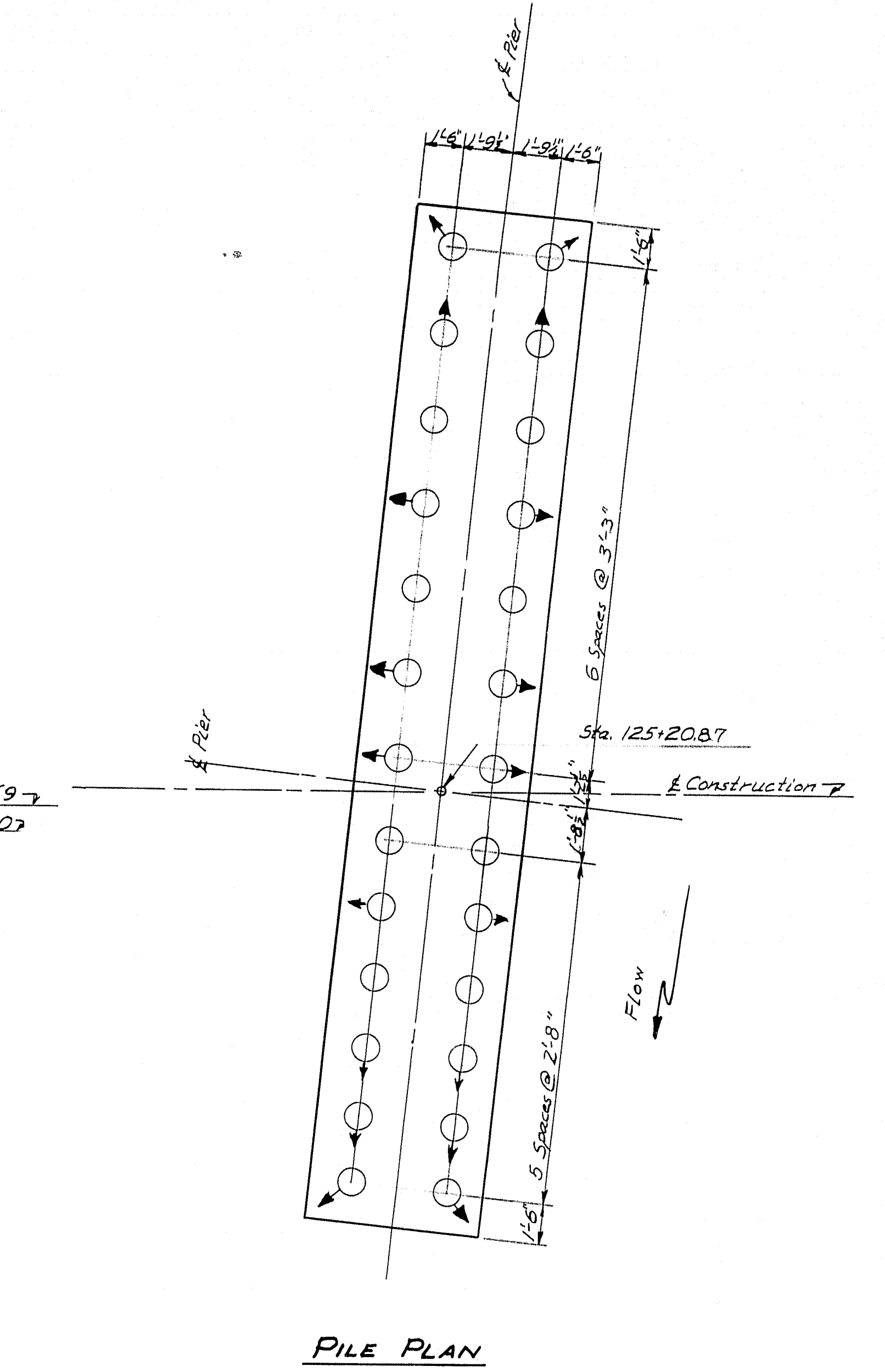
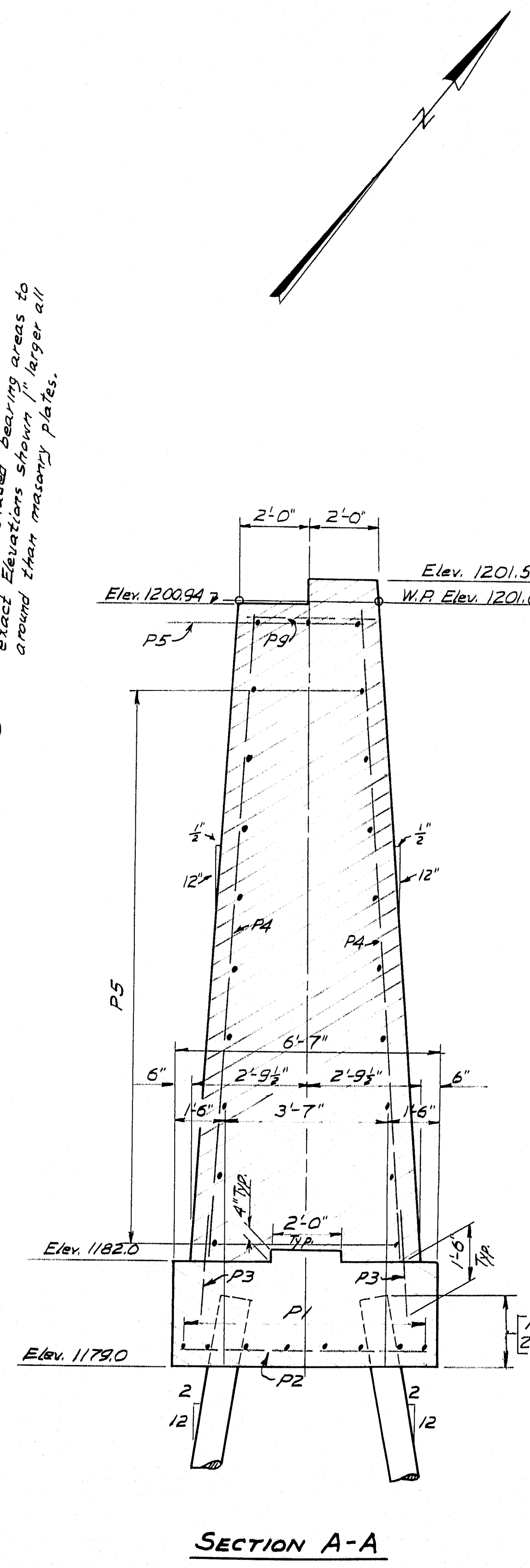
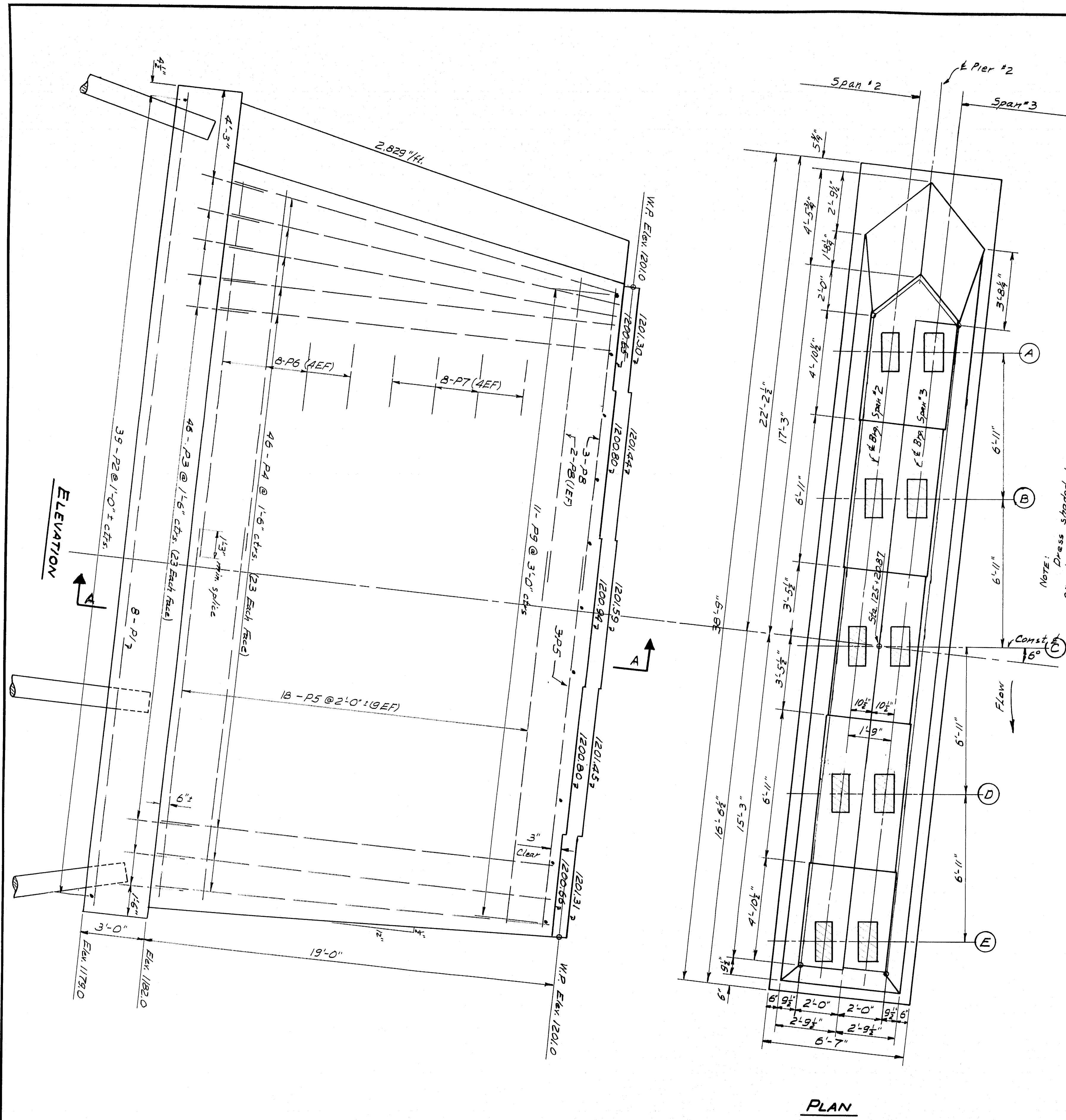
ABUTMENT NO. 2

SHEET 5 OF 12 AUGUSTA, MAINE MARCH 1961

M-1574

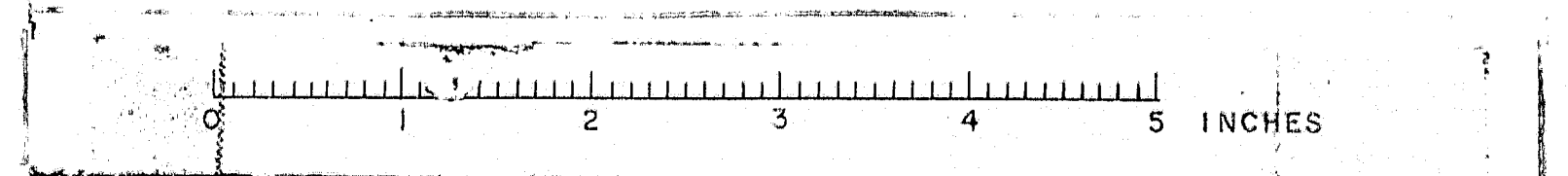


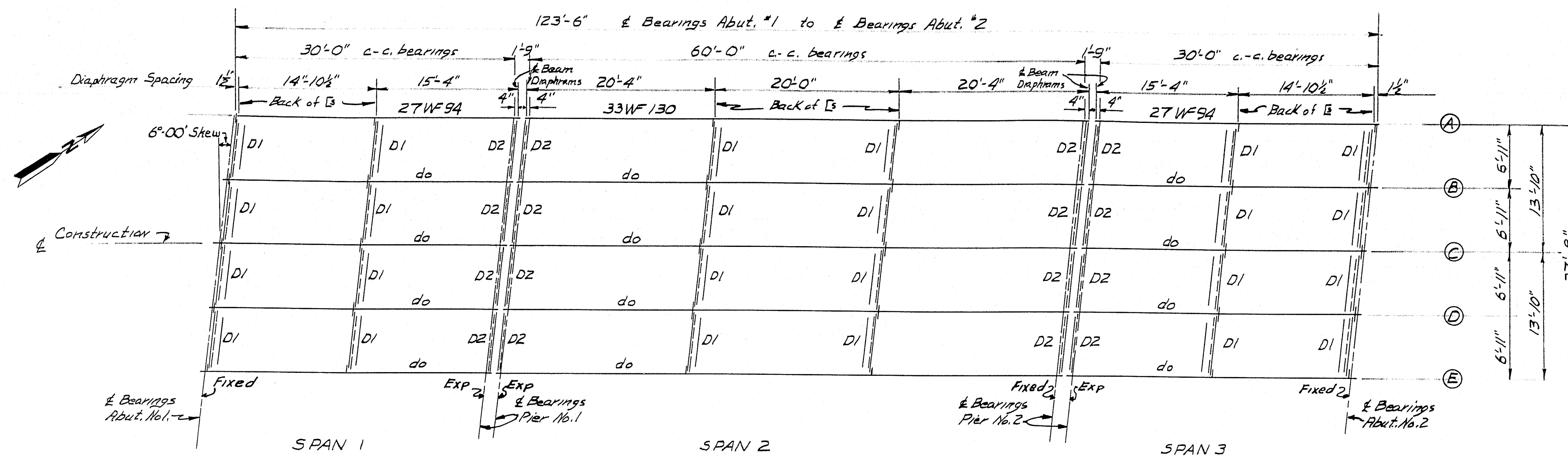
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	5-0237(8)	13	38



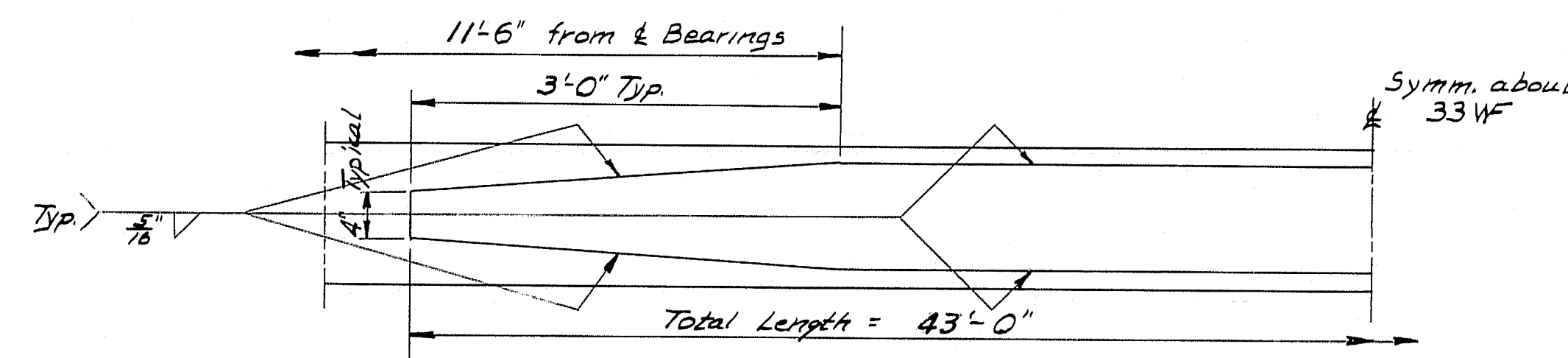
DESIGN - CDH	DETAIL - FBF	BRIDGE NO.	
TRACE - JHW		SURVEY -	
CHECK - J.E.C.		PLOT -	
STATE HIGHWAY COMMISSION BRIDGE DIVISION			
ALDER STREAM BRIDGE			
IN THE TOWNSHIP OF			
JIM POND (TIR5)			
FRANKLIN COUNTY			
PIER NO. 2			
SHEET 7 OF 12 AUGUSTA, MAINE MARCH, 1961			

M-1576

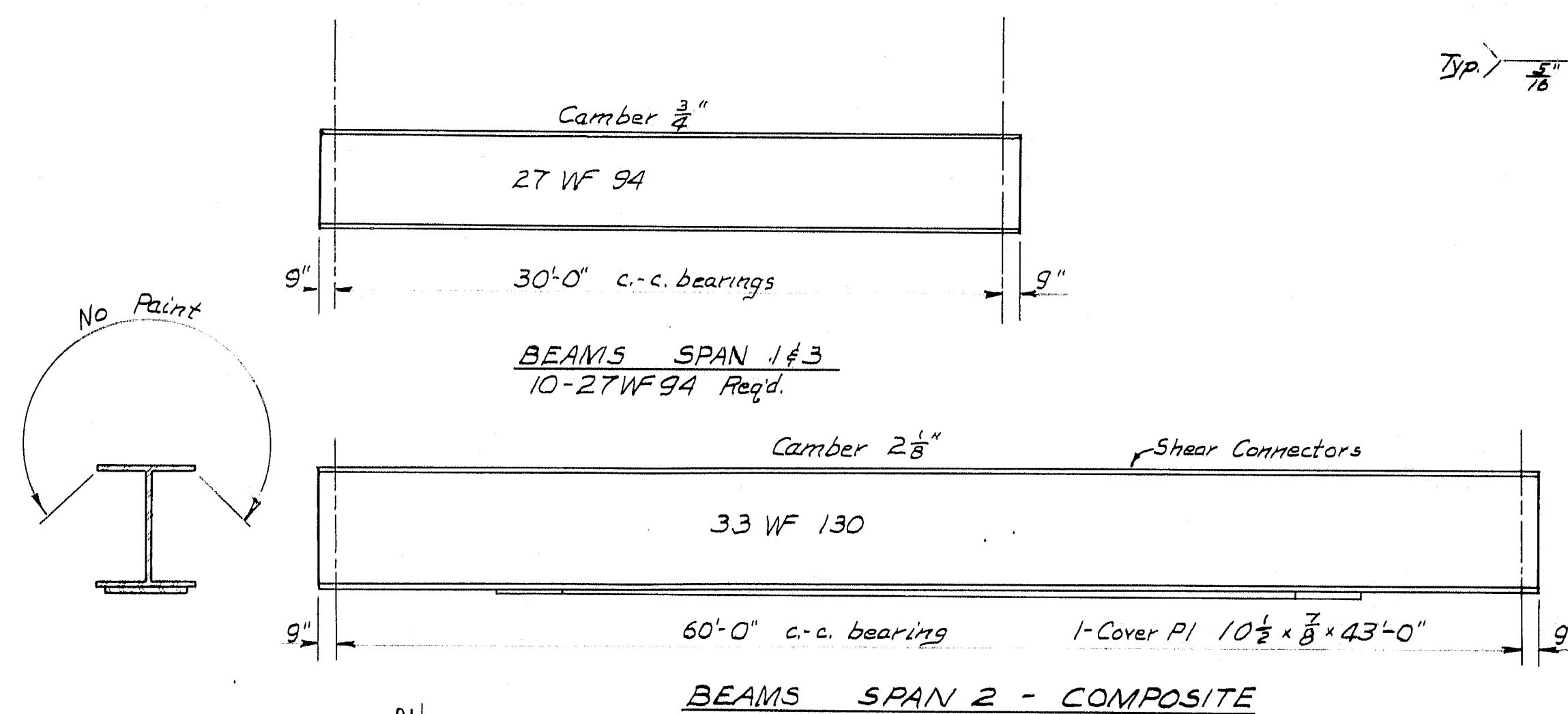




ERECTION DIAGRAM

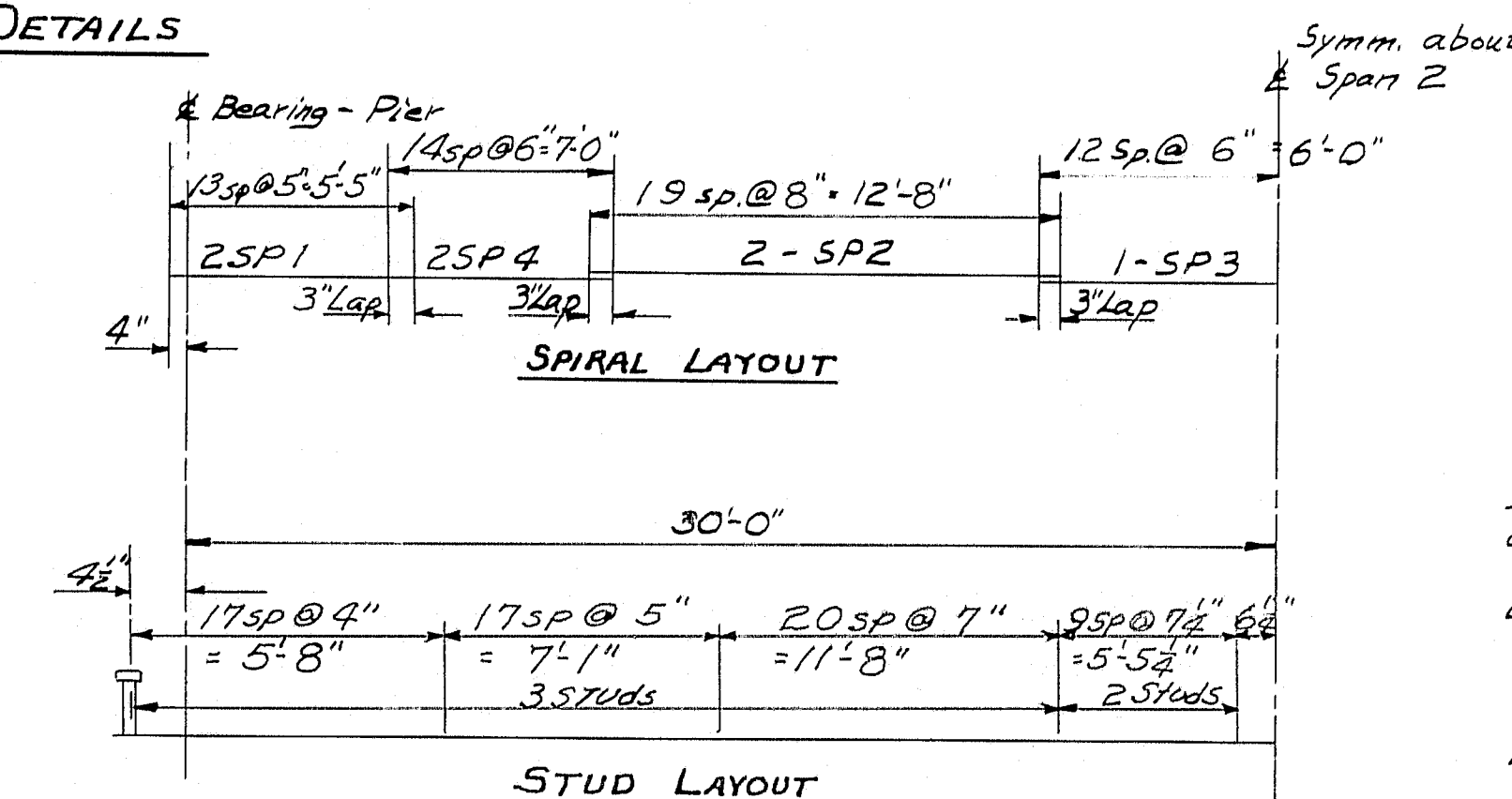


COVER PLATE DETAILS



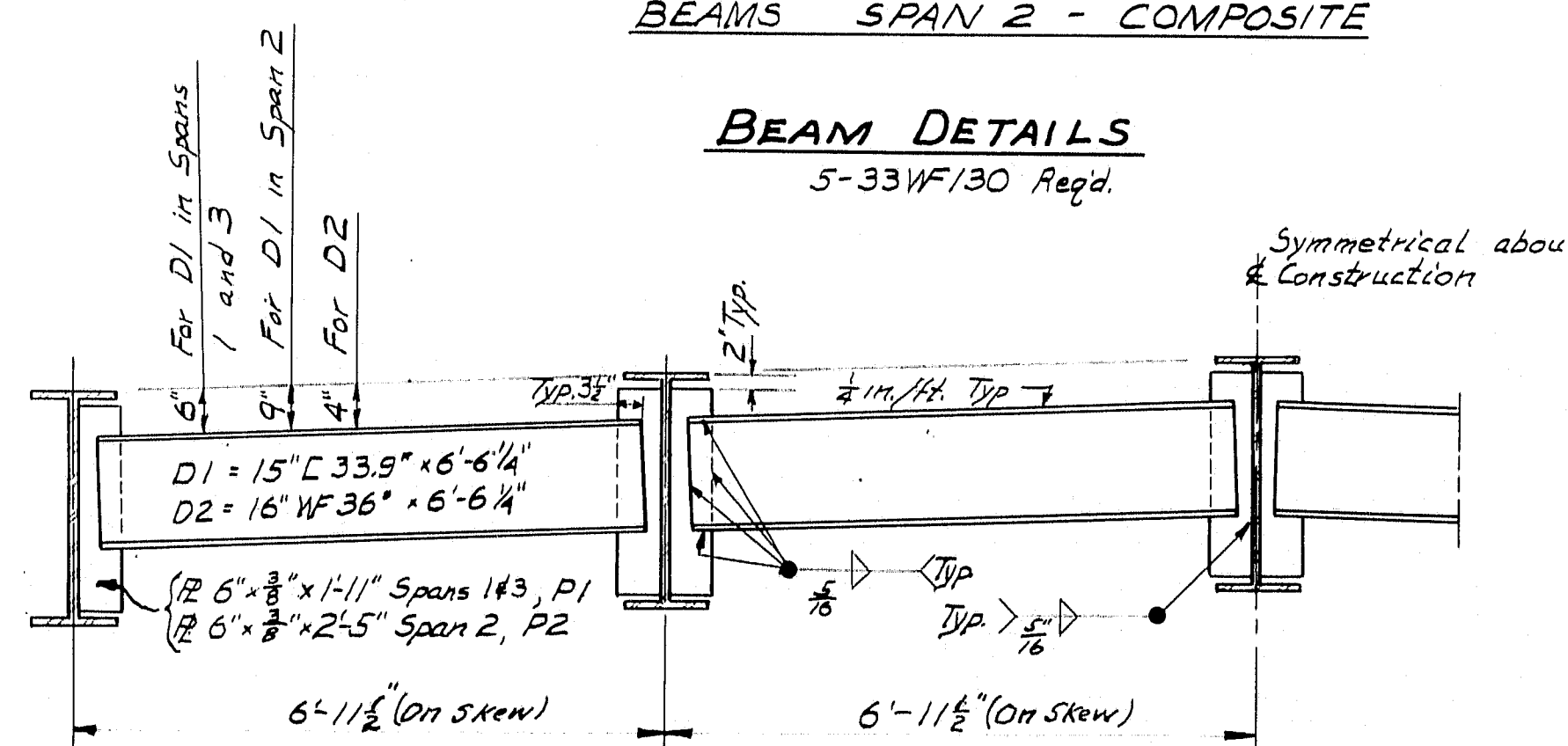
BEAM DETAILS

SPIRAL TABLE				
Mark	No.	Spaces	Pitch	Length
SP1	20	13	5"	5'-5"
SP2	20	19	8"	12'-8"
SP3	5	24	6"	12'-0"
SP4	20	14	6"	7'-0"



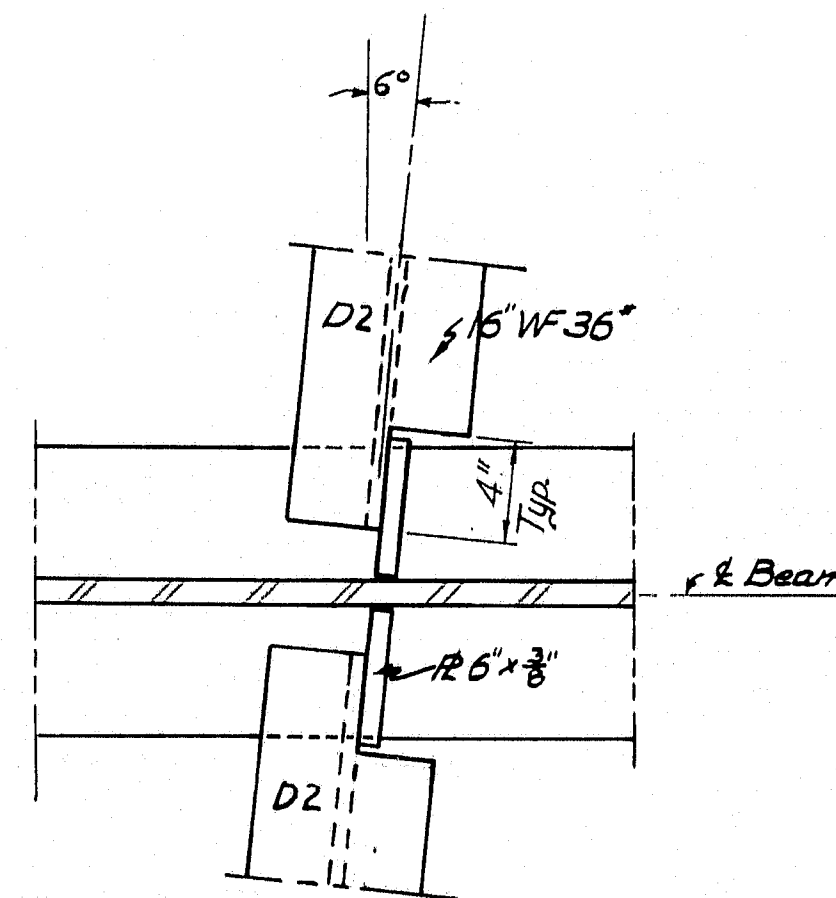
STUD LAYOUT

NOTES
 Strippers and cover plates for Span No. 2 shall be structural weldable steel conforming to the latest revision of the Specification A.S.T.M. Designation A-373.
 All other structural steel may conform to A.S.T.M. Designation A-373 or A-7.
 The use of the spirals or studs shown, to be optional with the contractor.
 All anchor bolts to be drilled for, set and grouted before diaphragms are erected.

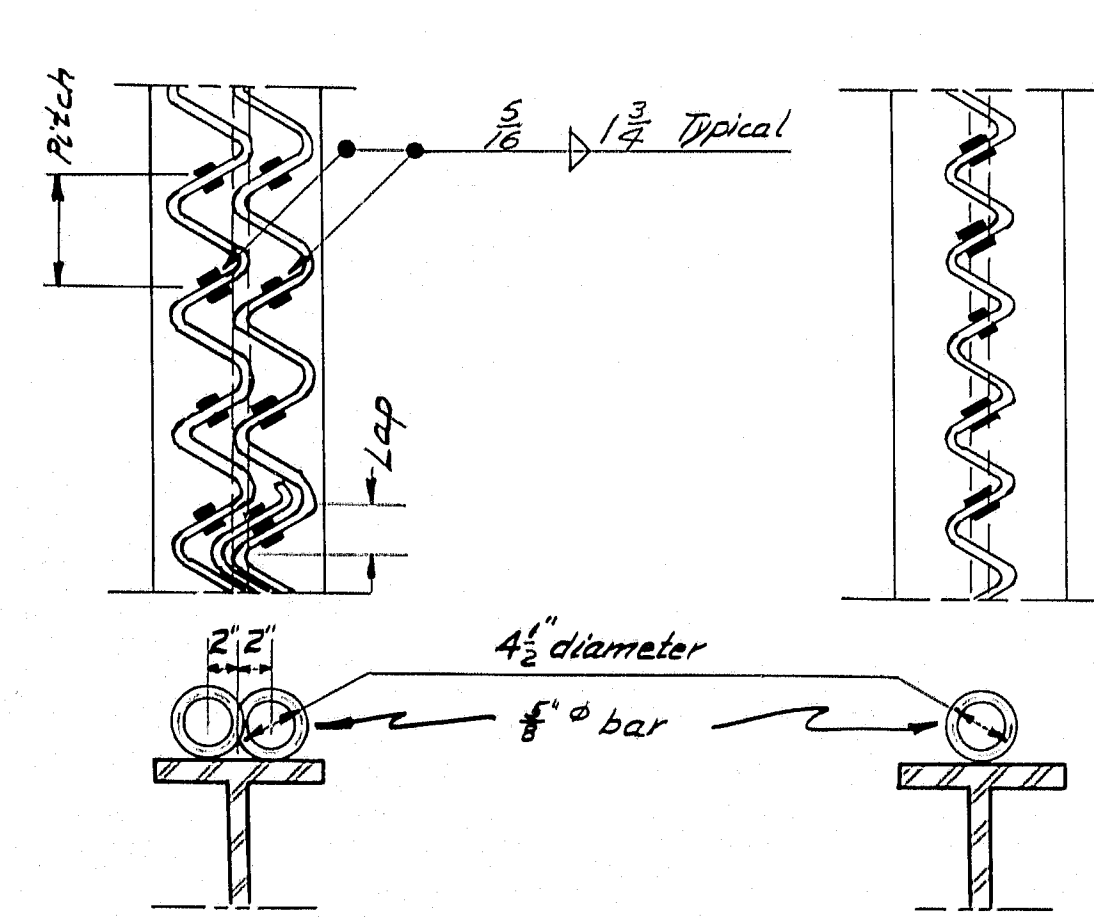


TYPICAL DIAPHRAGM DETAILS

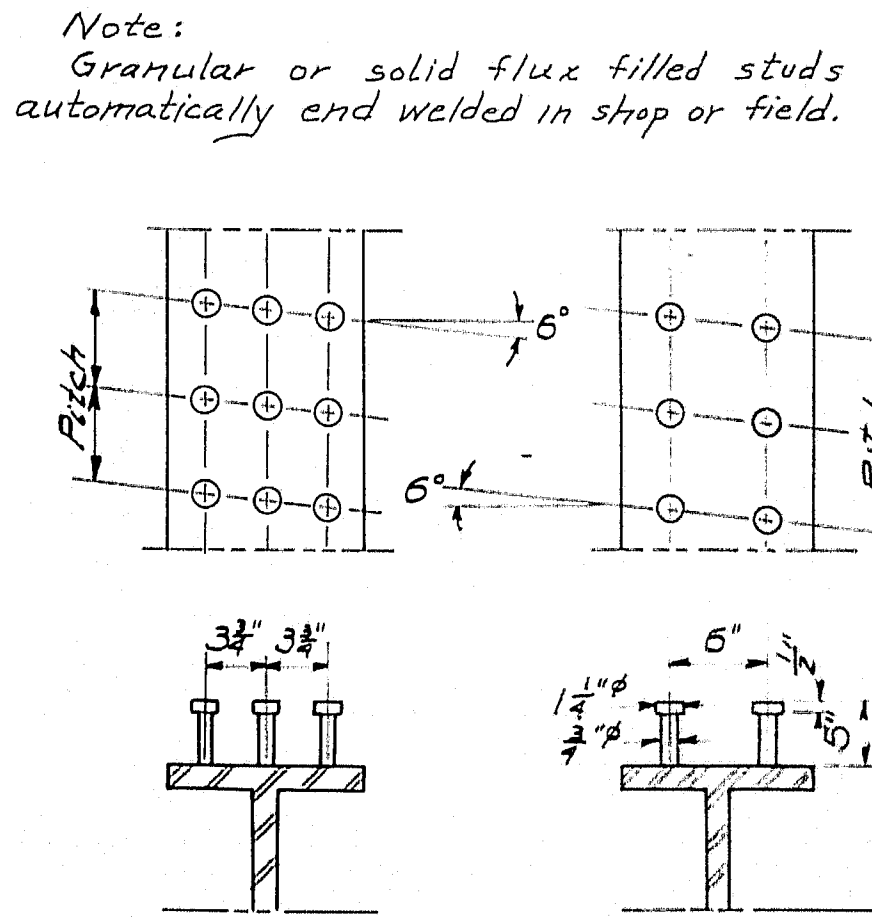
24 - D1 Req'd
 16 - D2 Req'd
 48 - D1 Req'd
 32 - D2 Req'd



TYPICAL CONNECTION FOR D2



SPIRAL DETAIL



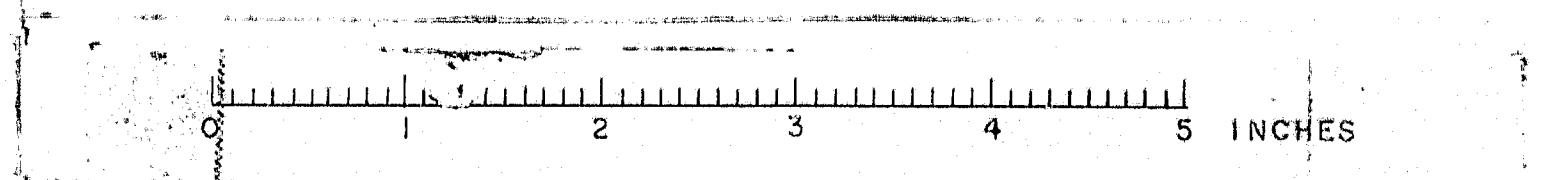
STUD DETAIL

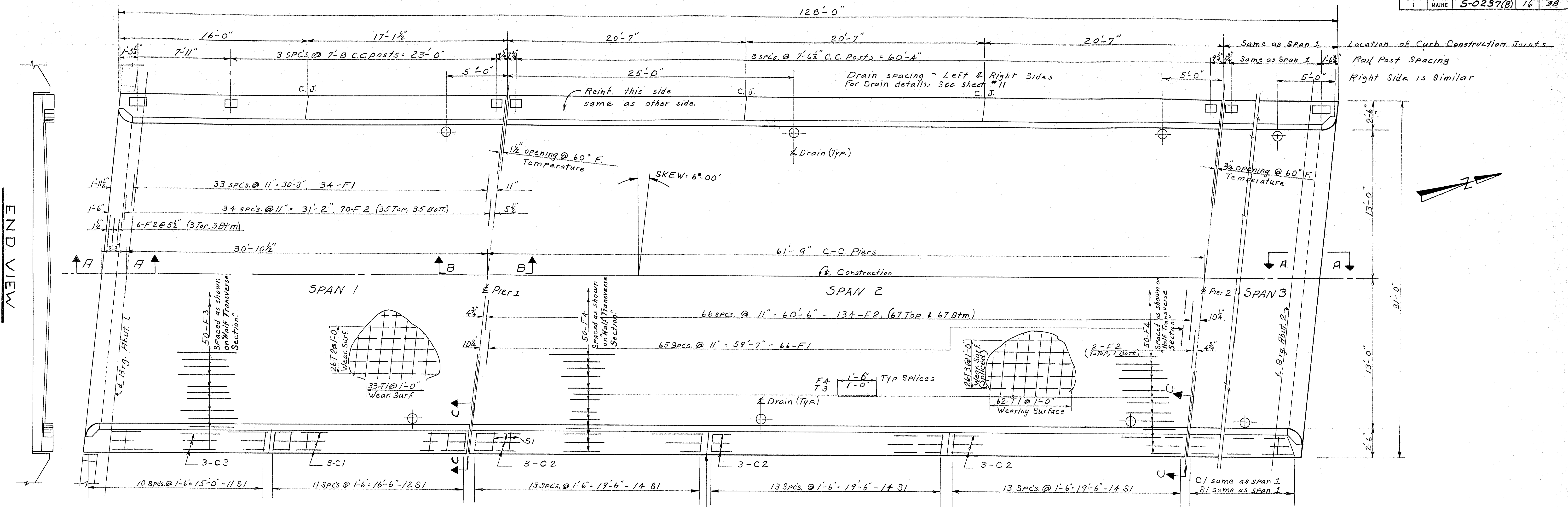
SHEAR CONNECTORS

SPECIFICATIONS
 Design and Detail AASHTO 1957
 Loading H20-S16-44
 Fabrication and Erection
 State of Maine, State Highway Commission,
 Standard Specifications, Highways and
 Bridges, Revision of January, 1956 and
 Supplemental Specifications,
 February, 1960.

DESIGN-CDH DETAIL-FBF
 TRACE-JHW
 CHECK-OLE
 BRIDGE NO.
 SURVEY-
 PLOT-
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
ALDER STREAM BRIDGE
 IN THE TOWNSHIP OF
JIM POND (TIR5)
FRANKLIN COUNTY
 STRUCTURAL STEEL
 SHEET 8 OF 12 AUGUSTA, MAINE MARCH, 1961

M-1577





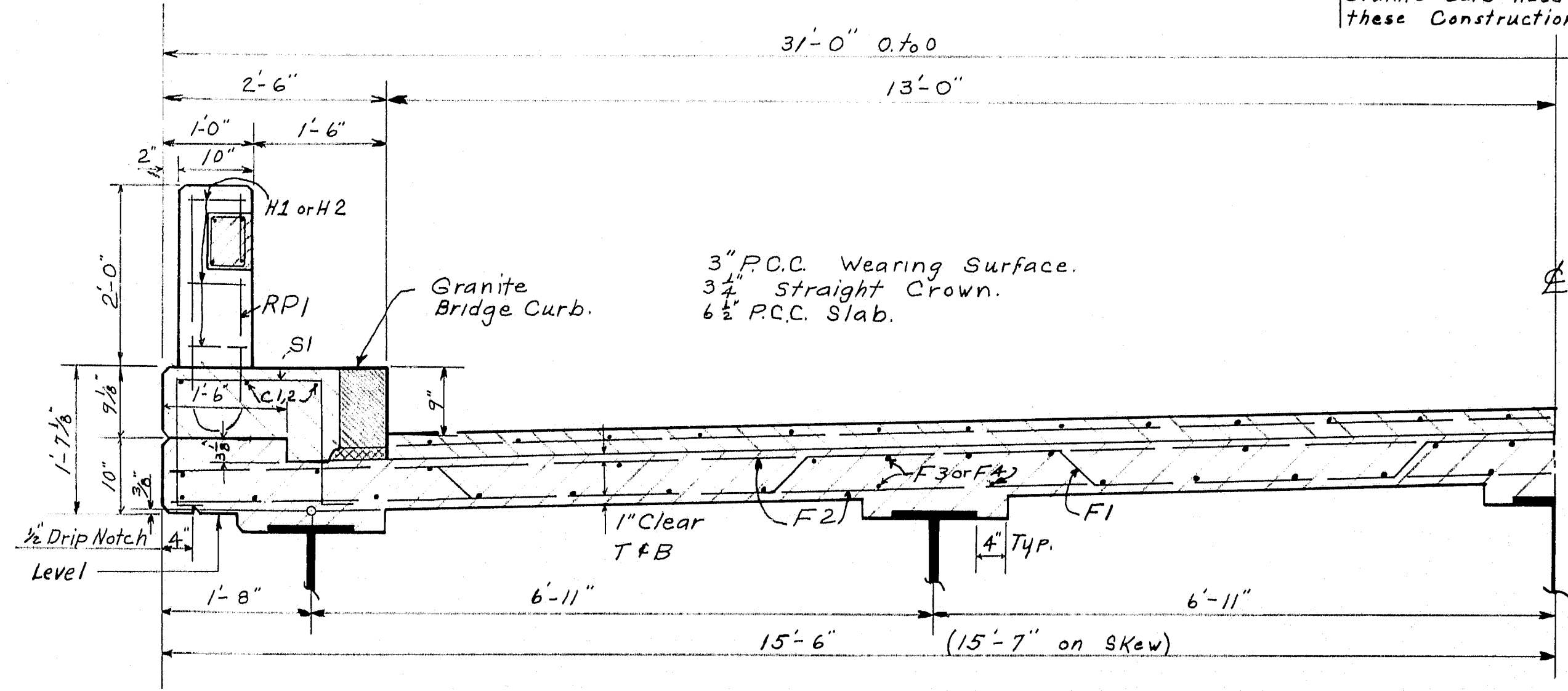
For Granite Curb details, see sheet #11.

SUPERSTRUCTURE PLAN

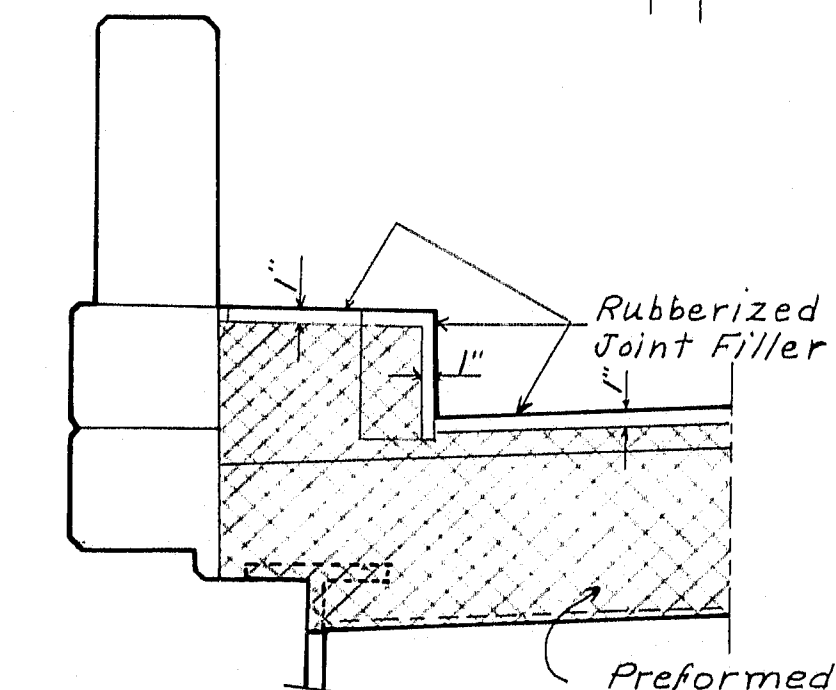
Construct a vertical decorative "V" groove in outside face of slab at construction joints in curb.

Break bond at Const. Jts. in curb by painting concrete with a suitable grade of asphalt. Form "V" groove in exterior face of curb. Use small radius edging tool on top face. Granite Curb need not be broken at these Construction Joints.

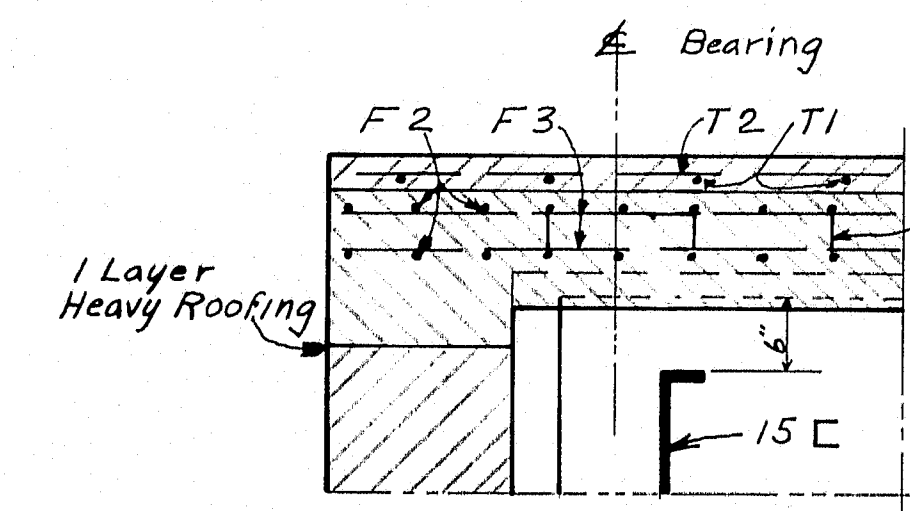
Concrete for curbs and rail shall not be placed until the superstructure slab has cured for 7 days. During this period form work will be allowed but hand tools only will be permitted on the slab.



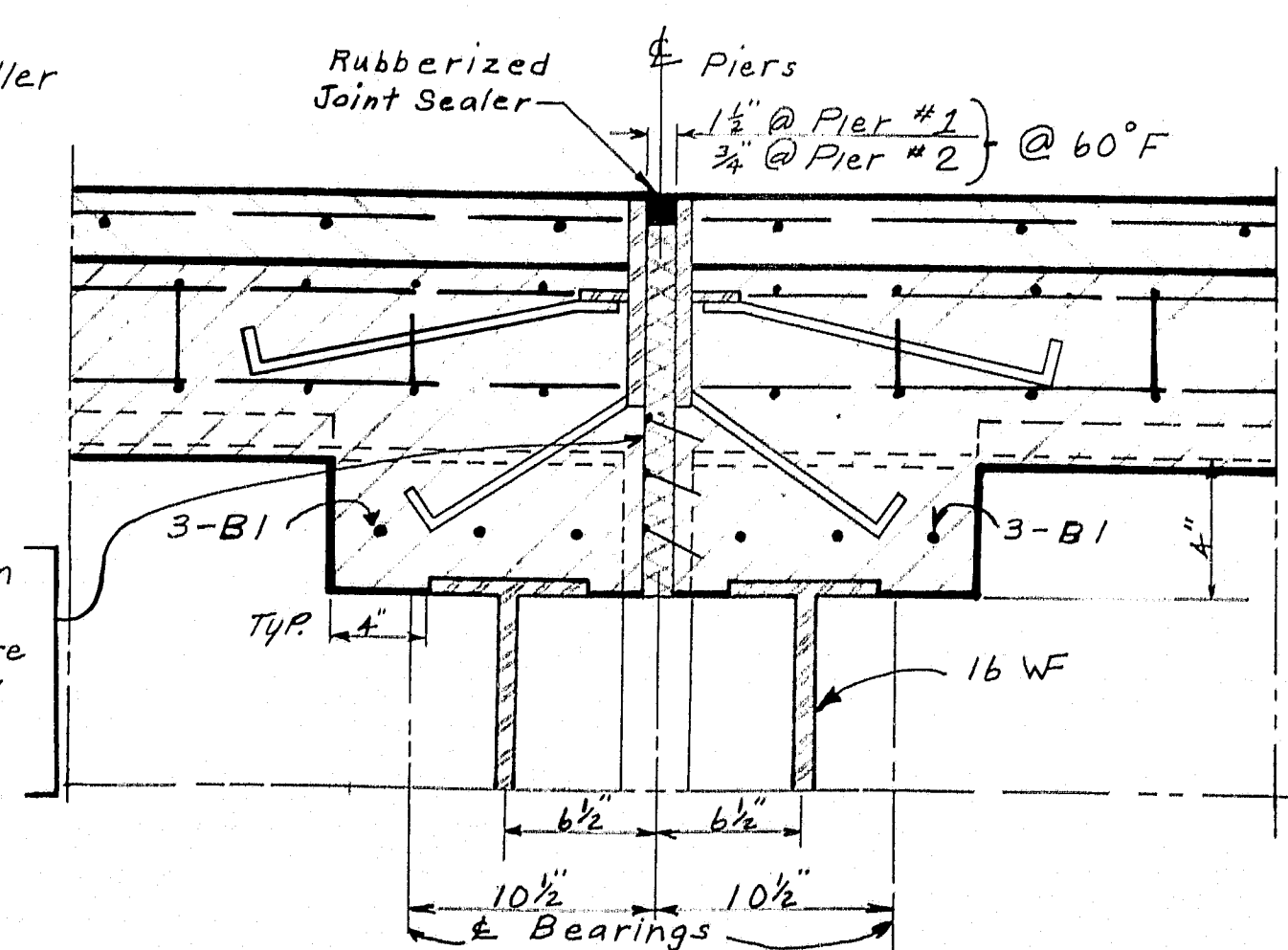
HALF TRANSVERSE SECTION



SECTION C-C



SECTION A-A

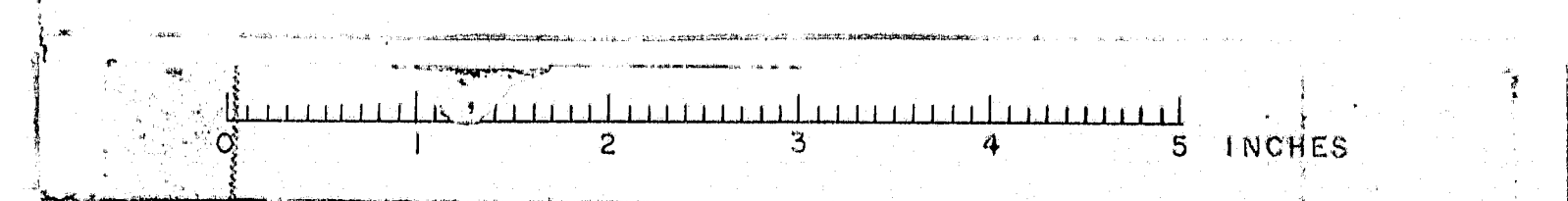


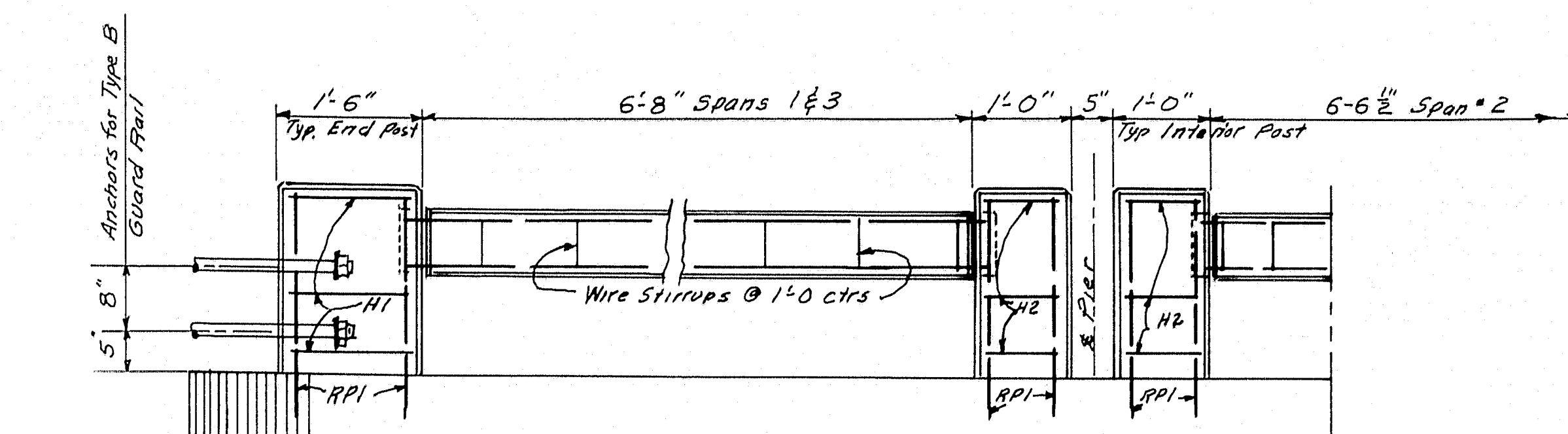
SECTION B-B

TYPICAL 1" V GROOVE

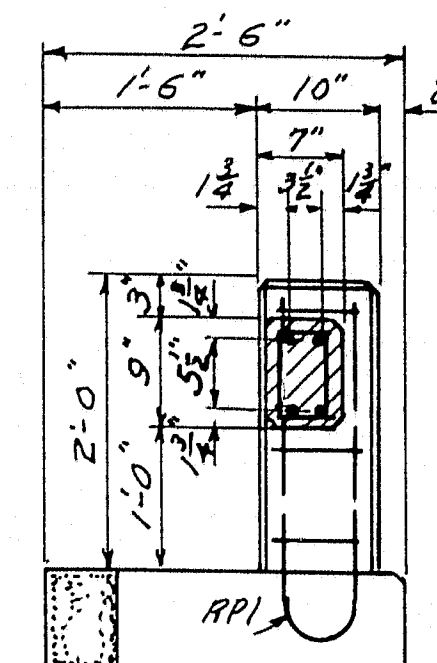
DESIGN C.D.H. TRACE I.F.M. CHECK R.E.W.	BRIDGE NO.
STATE HIGHWAY COMMISSION BRIDGE DIVISION ALDER STREAM BRIDGE IN THE TOWNSHIP OF JIM POND (TIR5) FRANKLIN COUNTY SUPERSTRUCTURE	
SHEET 10 OF 12 AUGUSTA, MAINE MARCH, 1961	

M-1579

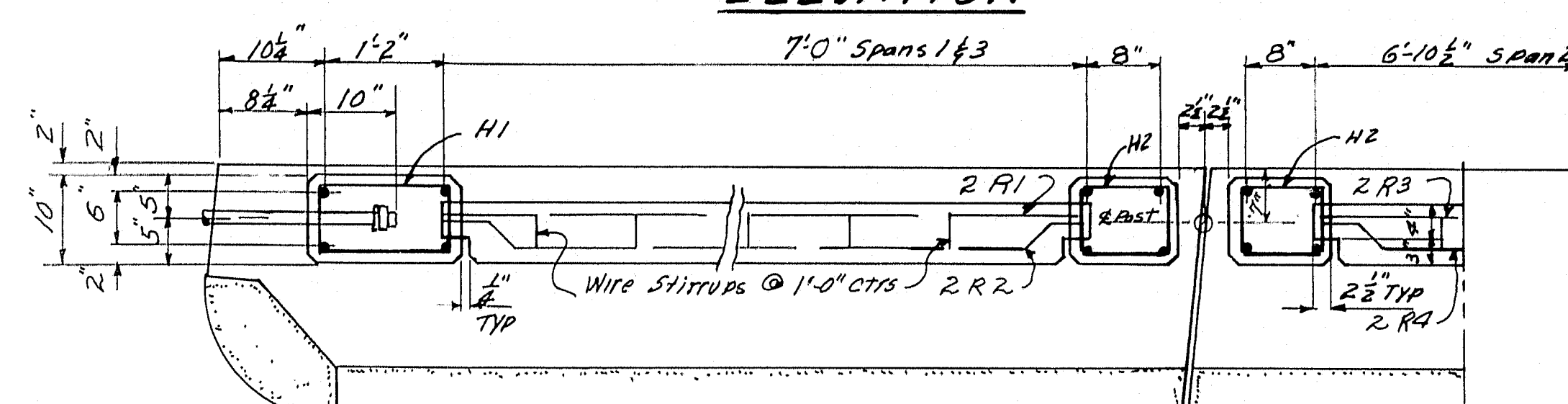




ELEVATION



SECTION



PLAN

NOTE:
For rail post spacing See sheet # 10
Rail bar length Span #1 = 7'11"
Rail bar length Span #2 = 6'11 1/2"
Number of End Posts = 4
Number of Int. Posts = 34
Number of Rail Bars Spans 1 & 2 = 16
Number of Rail Bars Span 2 = 16

-RAIL NOTES-
Post steel to be in position before curb is placed.
Rail bars to be precast and placed so the tongue end projects 2 1/2" into post forms.
Wrap the tongue ends with 2 layers of roofing felt.
Rail posts to be cast in place.
Wire stirrups to be constructed in the field from a single strand of No. 9 annealed wire, making a complete turn around each R. Bar in Rail bar.
Chamfer all exposed edges of concrete 1/4"

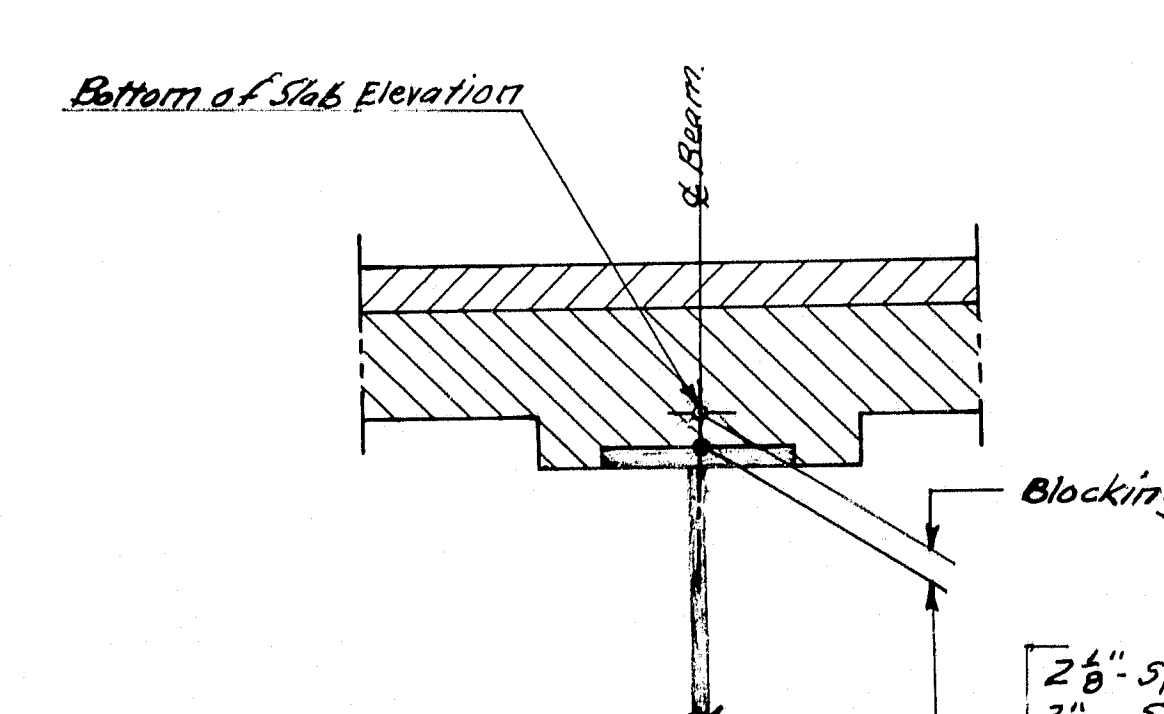
RAIL DETAILS

Line	Bearing Abutment #1	1/4 Pt.	1/2 Pt.	3/4 Pt.	Bearing Pier #1	1/4 Pt.	1/2 Pt.	3/4 Pt.	Bearing Pier #2	1/4 Pt.	1/2 Pt.	3/4 Pt.	Bearing Abutment #2
Line A													
Line B													
Line C													
Line D													
Line E													

BLOCKING PLAN

BOTTOM OF SLAB ELEVATIONS															
	SPAN 1					SPAN 2					SPAN 3				
	± Bearing Abut #1	1 4 Pt.	1 2 Pt.	3 4 Pt.	± Bearing Pier #1	± Bearing Pier #1	1 4 Pt.	1 2 Pt.	3 4 Pt.	± Bearing Pier #2	± Bearing Pier #2	1 4 Pt.	1 2 Pt.	3 4 Pt.	± Bearing Abut #2
Line A	1204.11	1204.10	1204.09	1204.07	1204.04	1204.03	1204.05	1204.04	1203.98	1203.89	1203.88	1203.88	1203.86	1203.84	1203.81
Line B	1204.25	1204.25	1204.23	1204.21	1204.18	1204.18	1204.20	1204.18	1204.12	1204.03	1204.03	1204.02	1204.01	1203.99	1203.96
Line C	1204.40	1204.39	1204.38	1204.36	1204.33	1204.32	1204.34	1204.33	1204.27	1204.18	1204.18	1204.17	1204.16	1204.13	1204.10
Line D	1204.26	1204.25	1204.24	1204.22	1204.19	1204.18	1204.20	1204.19	1204.13	1204.04	1204.03	1204.03	1204.01	1203.99	1203.96
Line E	1204.12	1204.11	1204.09	1204.07	1204.04	1204.04	1204.06	1204.05	1203.99	1203.90	1203.89	1203.88	1203.87	1203.85	1203.82

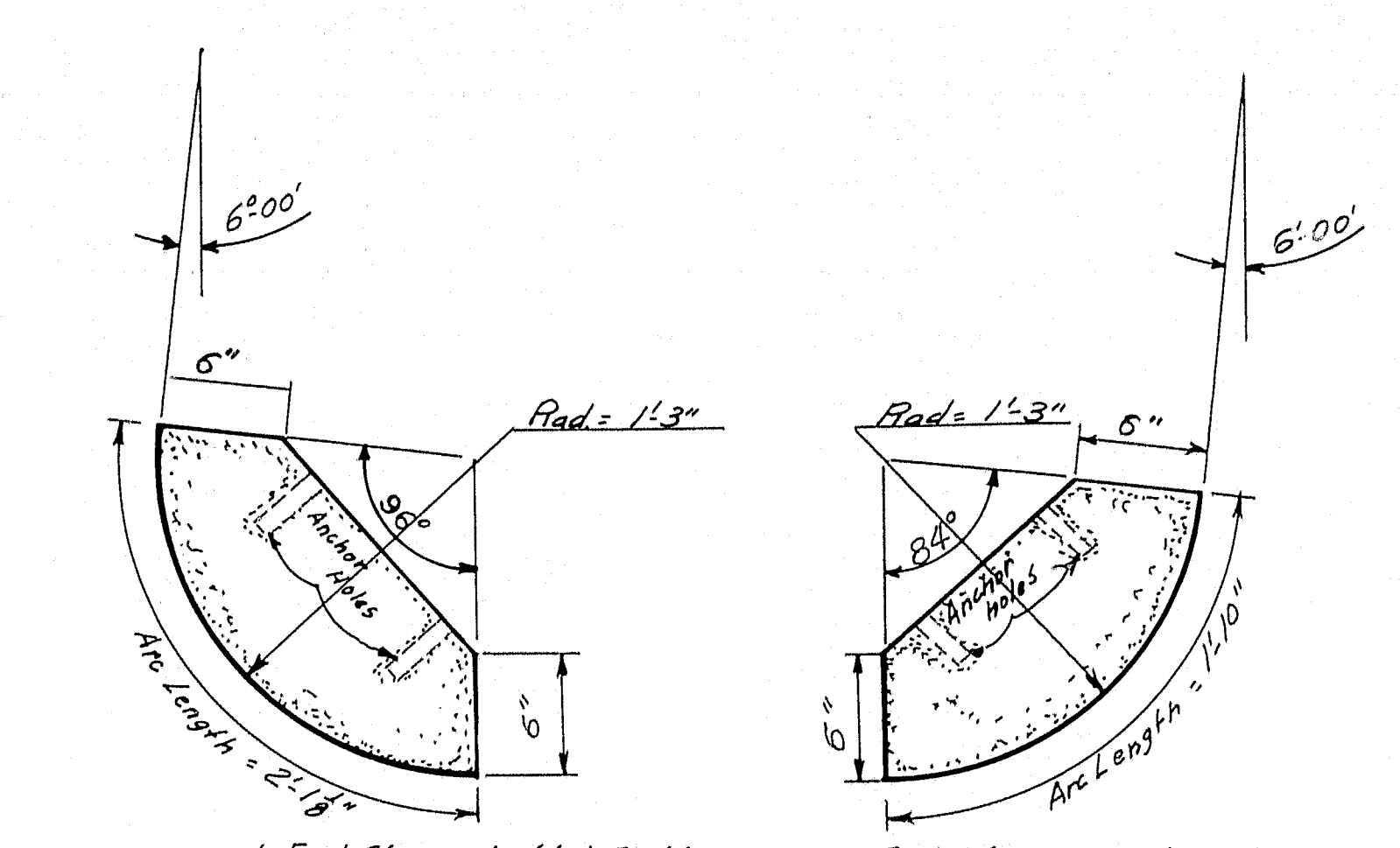
BOTTOM OF SLAB ELEVATIONS



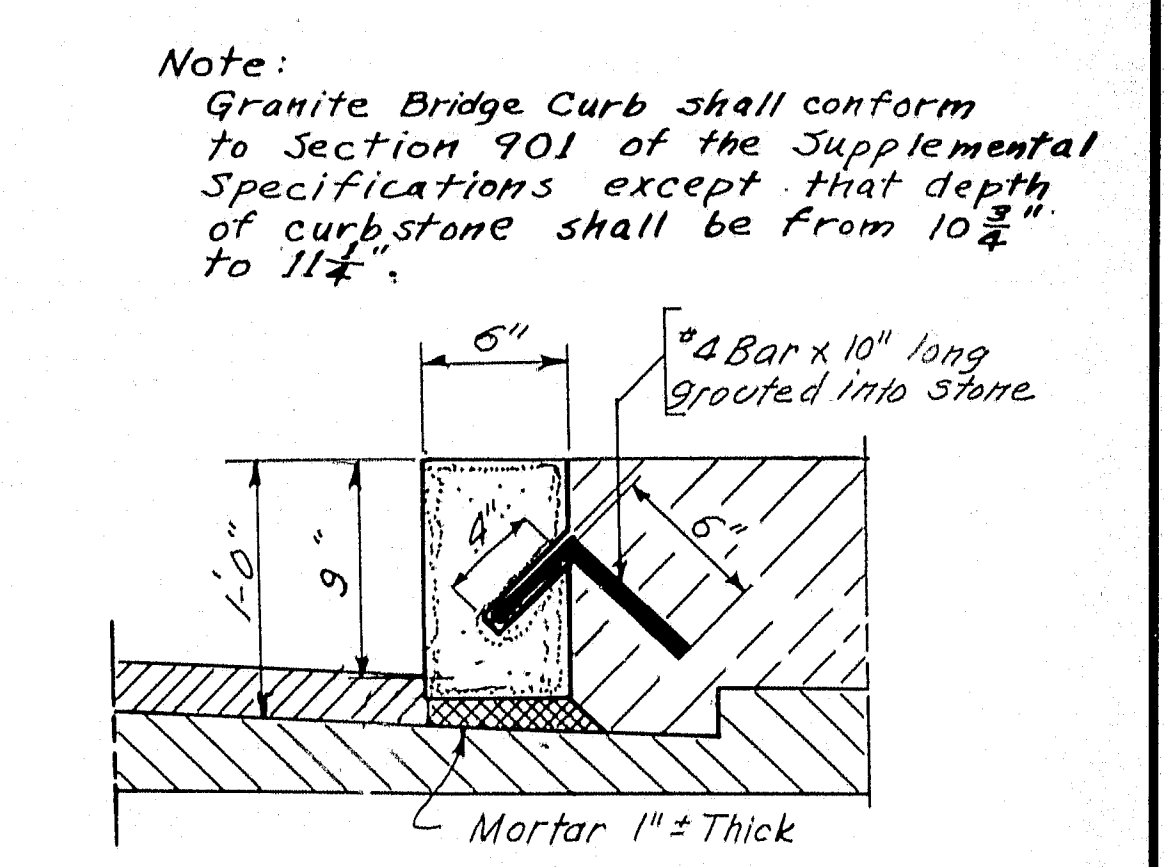
BLOCKING DETAIL

To allow for dead load deflection as well as inequalities in rolling steel the following procedure will be used:
Before any slab forms are constructed, elevations are to be taken on the top of the beams at the points indicated and are to be subtracted from the "Bottom of Slab Elevations". The result is the blocking to be used in the form work.

BLOCKING DETAILS



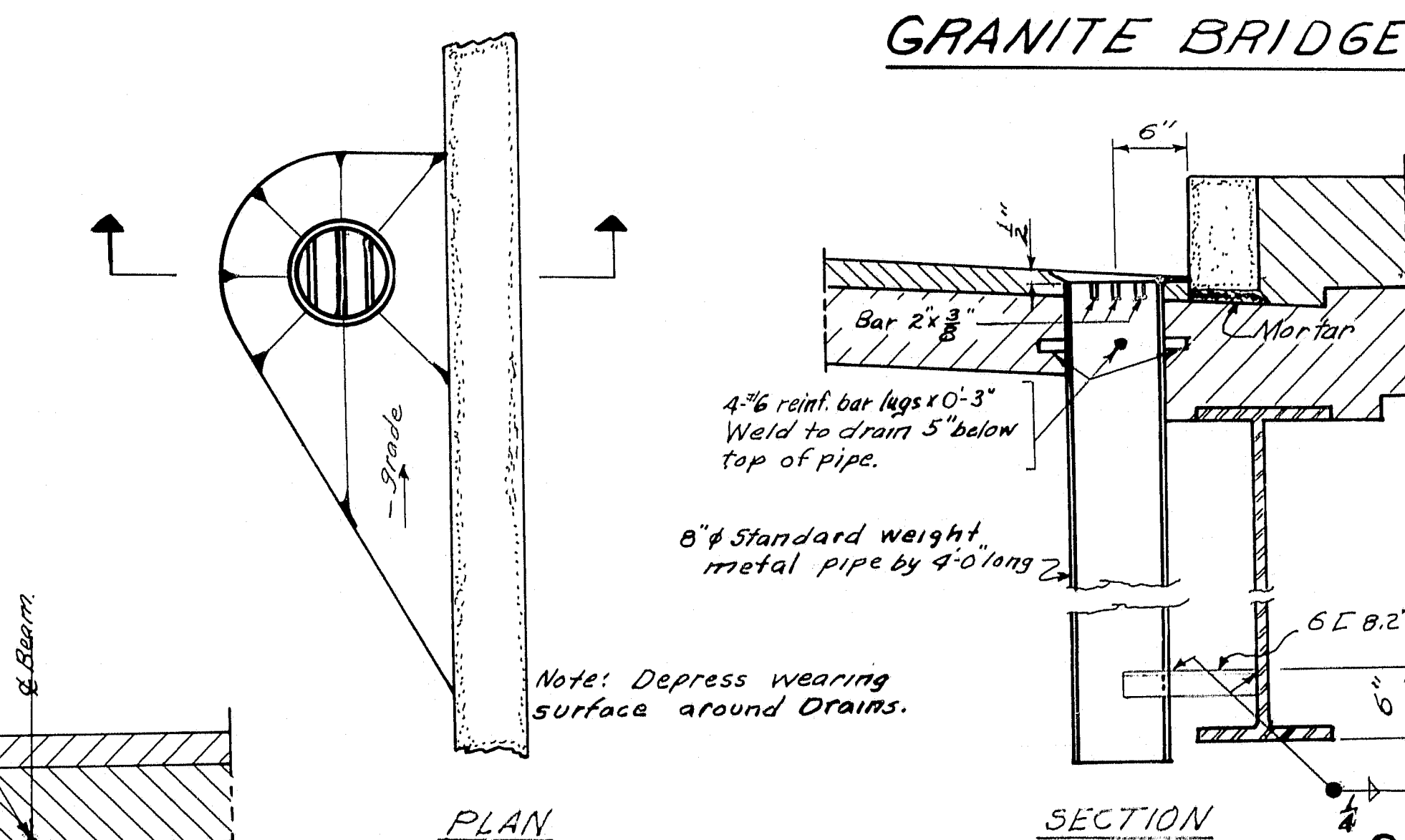
PLANS OF END STONES



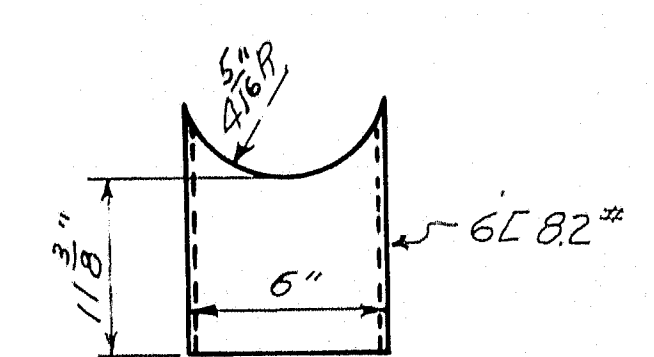
SECTION OF CURB

Note: Granite Bridge Curb shall conform to Section 901 of the Supplemental Specifications except that depth of curb stone shall be from 10 1/4" to 11 1/4".

GRANITE BRIDGE CURB DETAILS



DRAIN DETAILS

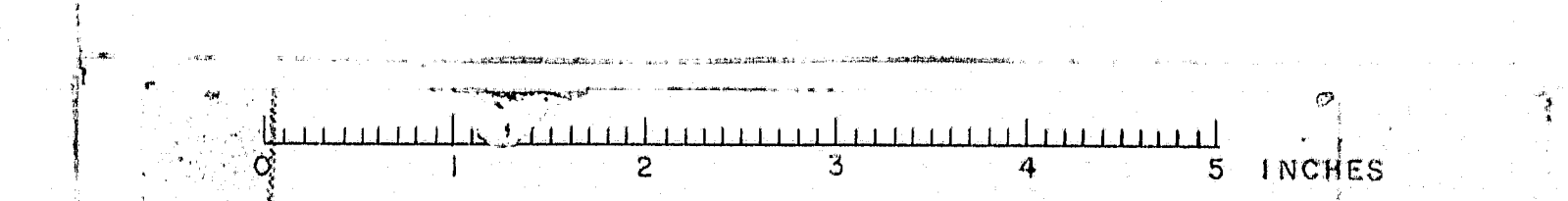


STAY CHANNEL

Note: Drains shall be paid for under Items 702-103 & 702-104, Structural Steel, Fabricated and Delivered, and Erection.

DESIGN - C.D.H. DETAIL G.E.A.
TRACE - G.E.A.
CHECK - R.E.P.
BRIDGE NO. 1580
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
ALDER STREAM BRIDGE
IN THE TOWNSHIP OF
JIM POND (TIR5)
FRANKLIN COUNTY
DETAILS
SHEET 11 OF 12 AUGUSTA, MAINE MARCH 1961

M-1580

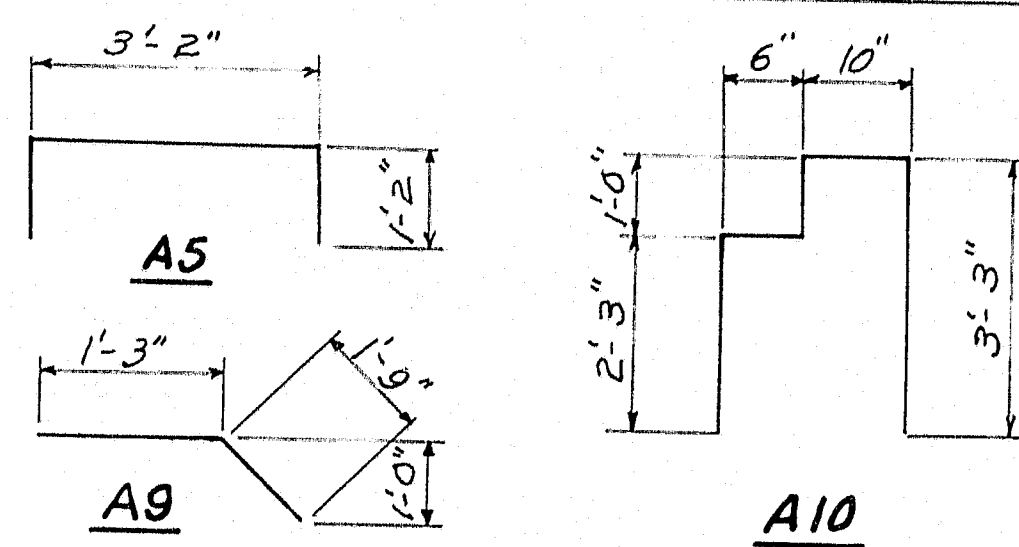


REINFORCING STEEL SCHEDULE

All reinforcing steel to be intermediate grade - $f_s = 20,000$ psi.

ABUTMENTS

Detail: G.E.A.
Check: R.E.P.



PIERS

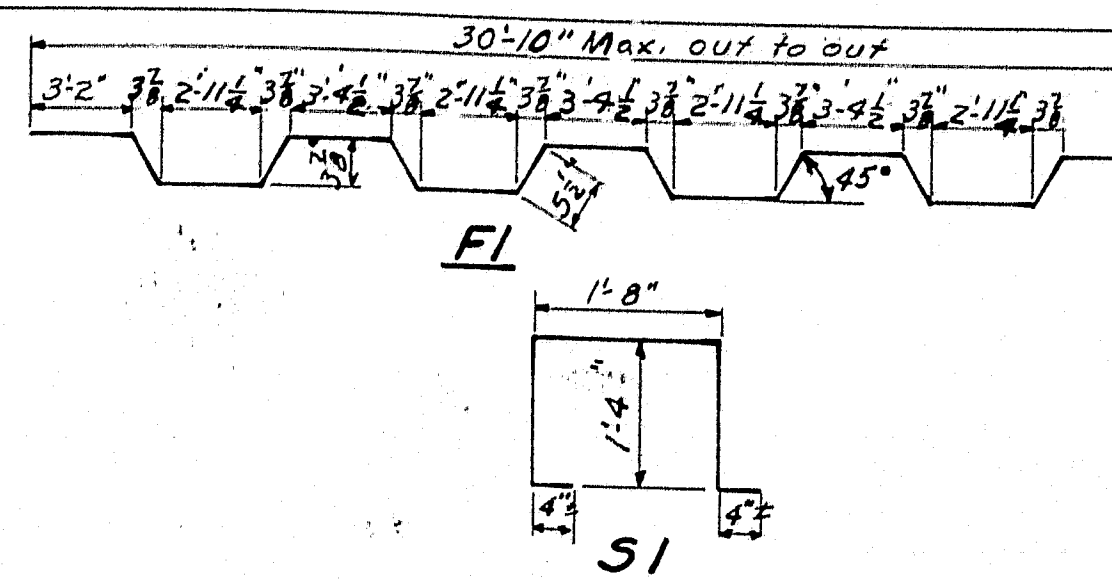
Detail: F.B.F.
Check: R.E.P.

STRAIGHT BARS

MARK	SIZE	LENGTH	LOCATION	NUMBER	
				PIER*1	PIER*2
P1	#5	38'-3"	Footings	8	8
P2	#5	6'-1"	do	39	39
P3	#6	3'-0"	Footings Dowels	46	46
P4	#6	18'-4"	Vertical	46	46
P5	#5	17'-0"	Horizontal	21	21
P6	#5	18'-6"	do	8	8
P7	#5	16'-9"	do	8	8
P8	#5	14'-6"	do	5	5
P9	#4	3'-5"	Top	11	11

SUPERSTRUCTURE

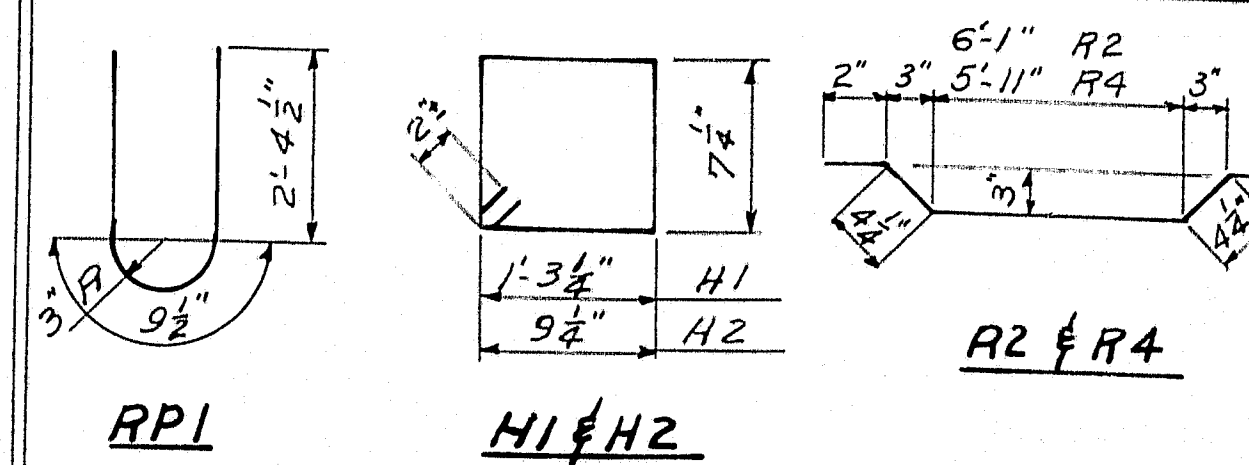
Detail: F.B.I.
Check: R.E.P.



RAIL

All dimensions to the center line of bars.

Detail: G.E.A.
Check: R.E.P.



BENT BARS

MARK	SIZE	LENGTH	LOCATION	NUMBER	
				ABUT #1	ABUT #2
A5	#5	5'-6"	Bridge Seat	22	22
A9	#5	3'-0"	Approach Slab Seat	13	13
A10	#5	7'-10"	Backwall	22	22

STRAIGHT BARS

MARK	SIZE	LENGTH	LOCATION	NUMBER	
				ABUT."1	ABUT."2
A1	#6	4'-9"	Footings	32	32
A2	#6	31'-0"	do	6	6
A3	#4	38'-0"	Backwall	7	7
A4	#4	38'-0"	Top Backwall	2	2
A6	#4	6'-2"	Wings	16	16
A7	#4	4'-2"	Top wings	4	4
A8	#5	3'-3"	Bridge Seat	10	10
A11	#5	30'-6"	Bridge Seat	3	3
D1	#5	4'-6"	Footings Dowels	22	22

A51	#6	14'-6"	Approach Slab	110	110
A52	#4	27'-6"	" "	20	20

BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
F1	# 5	134	31'-11"	Slab - all spans
S1	# 4	176	5'-1"	Curbs - all spans

STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
F2	#5	276	30'-10"	Slab - all spans
F3	#5	100	32'-9"	Slab - spans 1&3
F4	#5	100	31'-3"	Slab - span 2
C1	#4	12	16'-9"	Curbs spans 1&3
C2	#4	18	20'-3"	Curbs span 2
T1	#4	120	25'-10"	Wearing surface all spans
T2	#4	52	32'-9"	" " spans 1&3
T3	#4	52	31'-2"	" " span 2
B1	#5	48	6'-6"	Diaphragms Piers
C3	#4	12	15'-6"	Curbs spans 1&3

BENT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
RPI	#6	76	5'-6"	All Posts
H1	#4	12	4'-1"	End Posts
H2	#4	102	3'-1"	Interior Posts
R2	#4	32	7'-1"	Rail - Spans 1 & 3
R4	#4	32	7'-0"	Rail - Span - 2

STRAIGHT BARS

MARK	SIZE	NO.	LENGTH	LOCATION
R1	#4	32	6'-11"	Rail - Spans 1 & 3
R3	#4	32	6'-9"	Rail - Span 2

B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEET
1	MAINE	5-0237(8)	18	38

DESIGN - C.D.H.
TRACE - GE.A.
CHECK - R.E.P.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

ALDER STREAM BRIDGE

IN THE TOWNSHIP OF

JIM POND (TIR5)

FRANKLIN COUNTY

REINFORCING STEEL

SHEET 12 OF 12 AUGUSTA, MAINE MARCH 1961

M-1581

