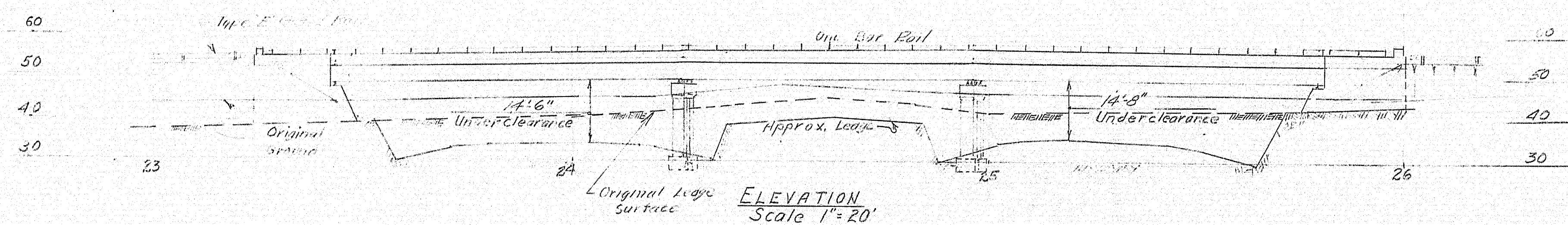


PLAN
Scale 1"=20'



ELEVATION
Scale 1"=20'

SPECIFICATIONS

DESIGN: A.A.S.H.O. Standard Specifications for Highway Bridges 1961, with Interim Specifications 1961, 1962.

CONTRACT: State of Maine, State Highway Commission, Standard Specifications for Highways and Bridges, Revision of January 1956 and Supplemental Specifications February 1960.

LIVE LOADING

H20-44

ALLOWABLE STRESSES

Concrete - $f_c = 1200$ p.s.i. $n = 10$
Reinforcing Steel - Intermediate Grade - $f_s = 20,000$ p.s.i.
Structural Steel - $f_s = 20,000$ p.s.i.

CONCRETE CLASSIFICATION

All concrete Class "A"

STRUCTURAL STEEL CLASSIFICATION

All structural steel shall conform to the latest Revision of the Specification A.S.T.M. Designation A-36 unless noted on standard Details.

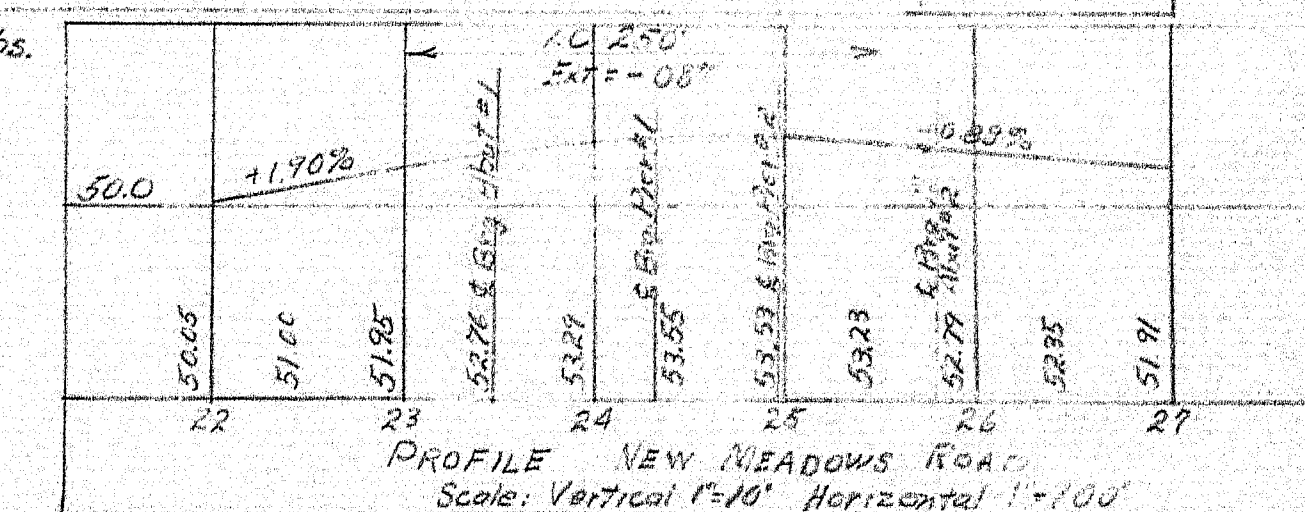
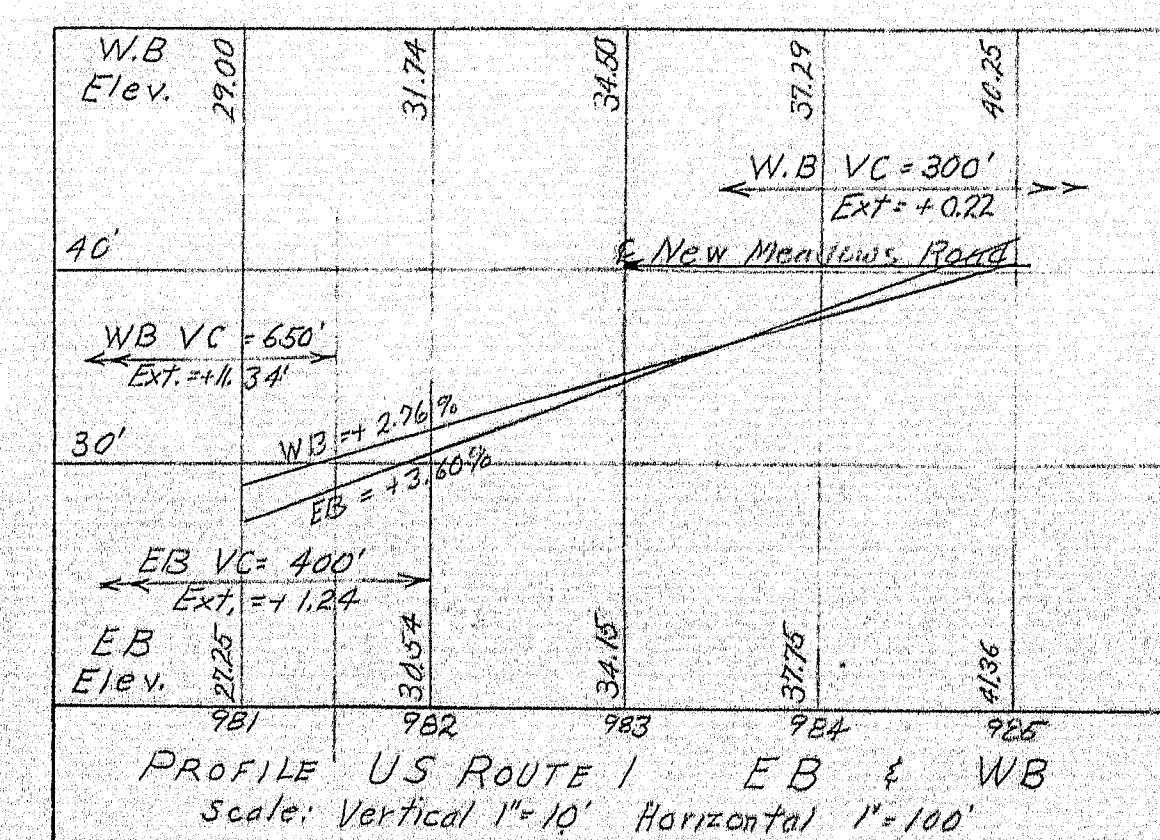
PLAN INDEX

SHEET NO.	DESCRIPTION
1	General Plant & Quantities
2	Foundation Survey
3	Boring Details
4	Approach Slabs
5	Abutment No. 1
6	Abutment No. 2
7	Piers
8	Structural Steel
9	Shear connectors & Drains
10	Superstructure
11	Superstructure Details
12	Reinforcing steel schedule
BD-101-64	Bearing Pedestals
BD-102-64	Bridge Rail
BD-103-64	Beam Splices
BD-104-64	Diaphragms, Armored Joint

ESTIMATE OF BRIDGE QUANTITIES

DESCRIPTION	UNIT	QUANTITY
Structural Earth Excavation, Abutments & Retaining Walls	c.y.	200
Structural Rock Excavation, Abutments & Retaining Walls	c.y.	6
Structural Rock Excavation, Piers	c.y.	73
Gravel Borrow	c.y.	295
Bituminous Concrete Surface Course, Type "A"	tons	83
Portland Cement Concrete, Abutments & Retaining Walls	c.y.	263
Portland Cement Concrete, Piers	c.y.	77
Portland Cement Concrete, Roadway & Sidewalk Slabs on Steel Bridges	c.y.	250
Structural Steel, Fabricated & Delivered	L.S.	Lump Sum
Structural Steel, Erection	L.S.	Lump Sum
Structural Steel, Field Painting	L.S.	Lump Sum
Reinforcing Steel, Delivered	lbs.	66,460
Reinforcing Steel, Placing	lbs.	66,460
Shear Connectors	L.S.	Lump Sum
Bridge Rail	lin. ft.	545
Membrane Waterproofing	s.y.	740
Epoxy Resin Surface Sealer	s.y.	100
Vertical Bridge Curb, Type I	lin. ft.	536
Vertical Bridge Curb, Type I, Circular	lin. ft.	21

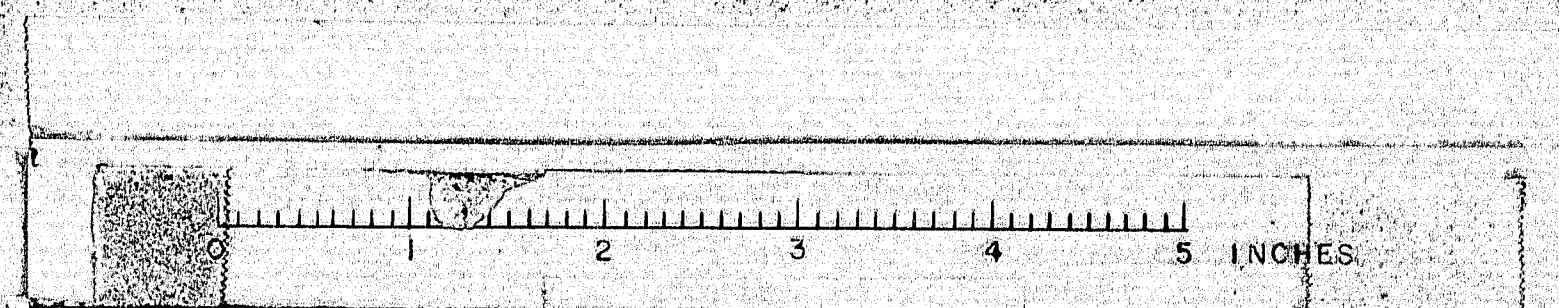
Estimated Weight of Structural Steel - 221,500 lbs.

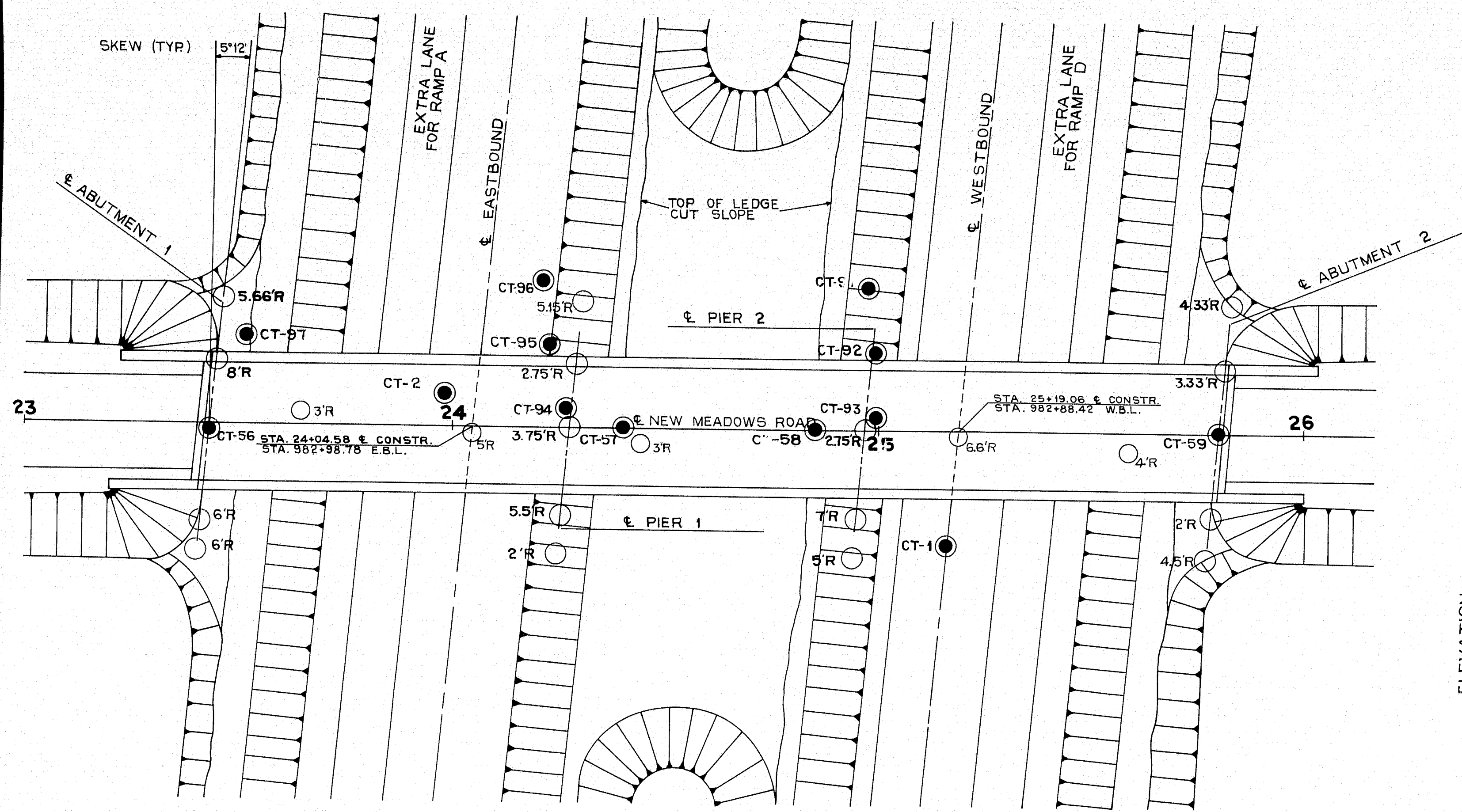


DESIGN: W. Hamilton
CHECK: G. H. H.
BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
NEW MEADOWS ROAD BRIDGE
OVER
ROUTE US-1
IN THE TOWN OF
WEST BATH
SAGadahoc COUNTY
GENERAL PLAN & QUANTITIES

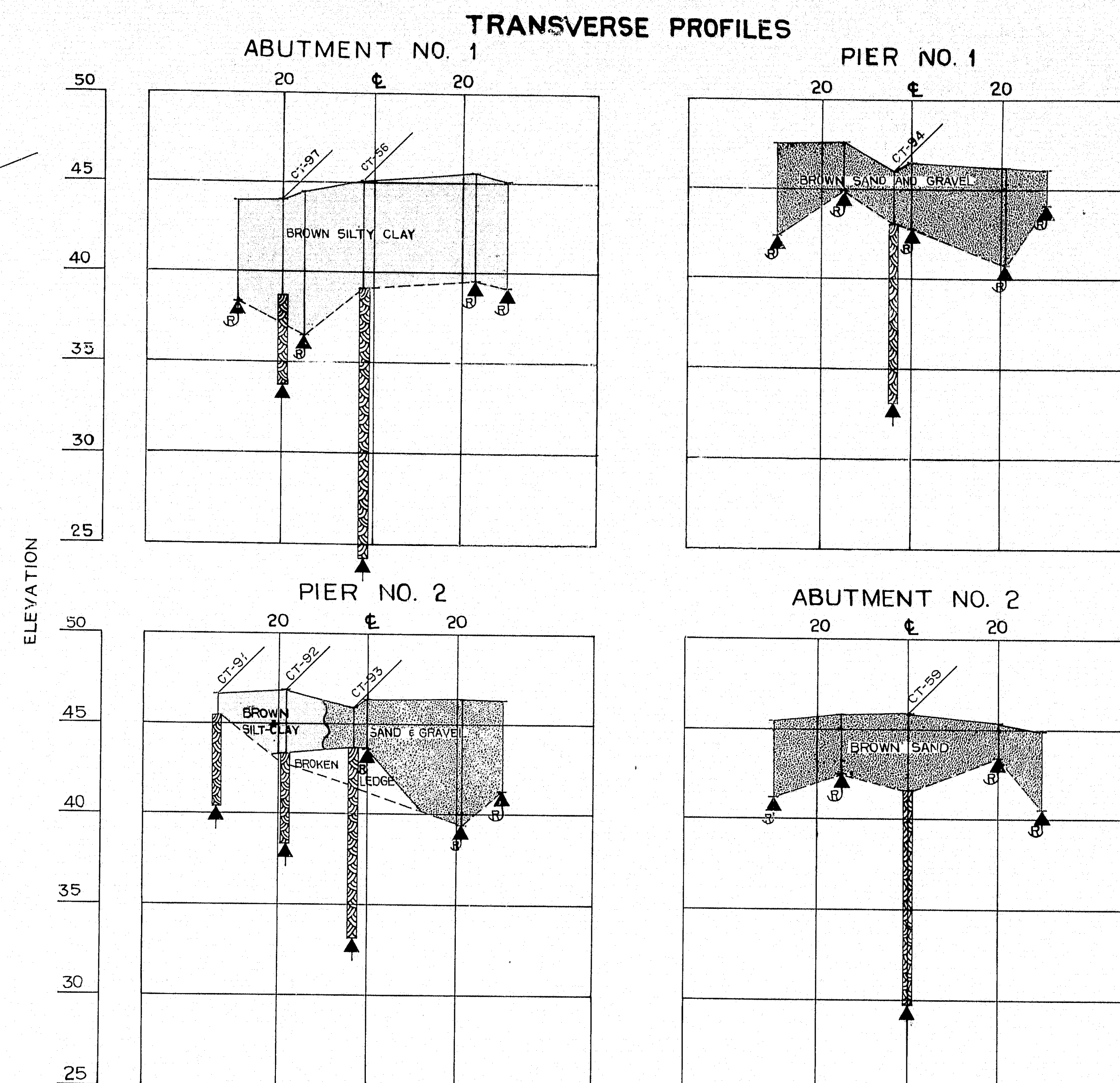
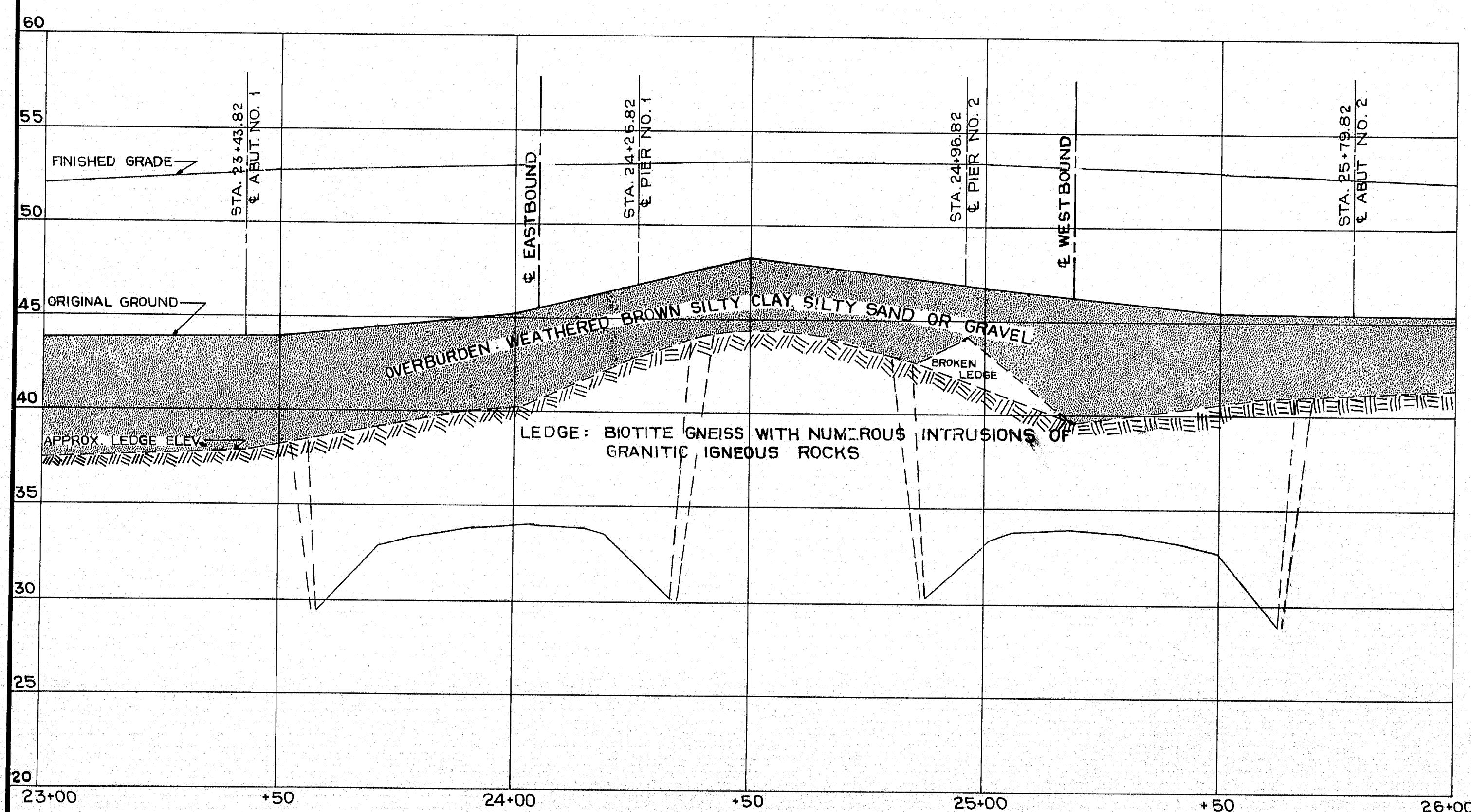
SHEET 1 OF 12 AUGUSTA, MAINE FEB. 1964

M-2379





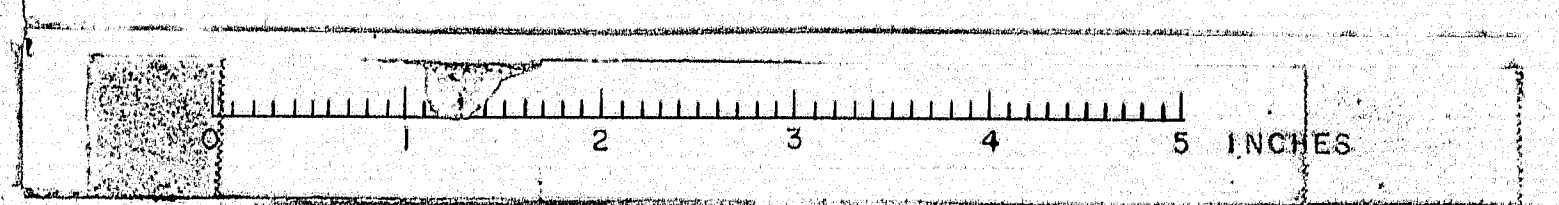
PLAN
SCALE 1" = 20'



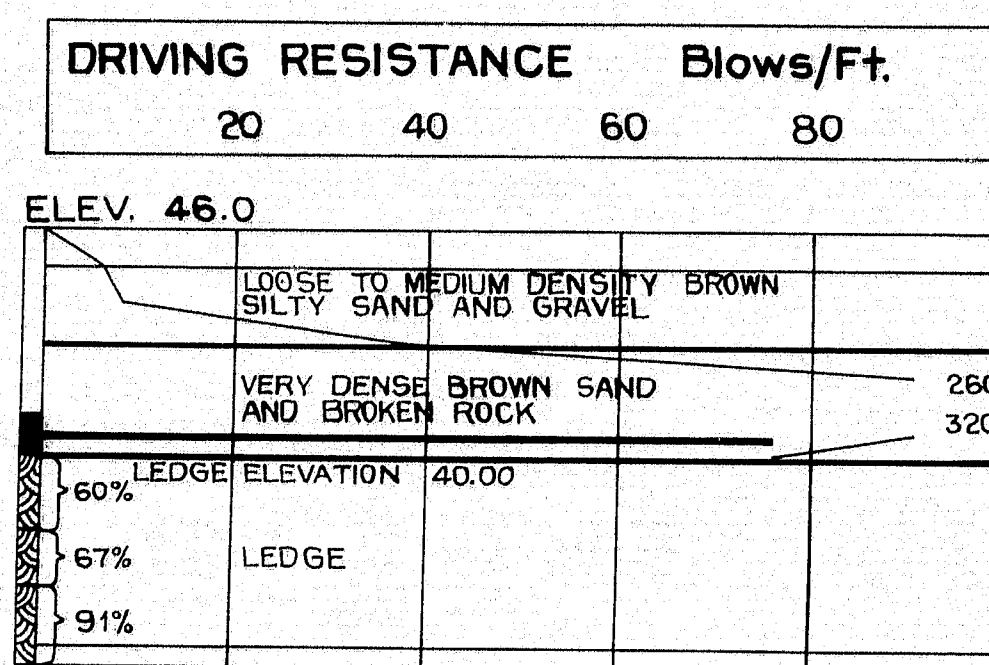
PLAN NOTES
 ○ ROD EXPOSURE (R DENOTES REFUSAL ON RODS)
 ● WASH BORING

DESIGN - [] Soils Division
 TRACE - []
 CHECK - []
 BRIDGE NO. 1
 SURVEY - PLOT -
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
NEW MEADOWS ROAD BRIDGE
 OFF U.S. 1
 IN THE TOWN OF
WEST BATH
 SAGadahoc COUNTY
 FOUNDATION SURVEY

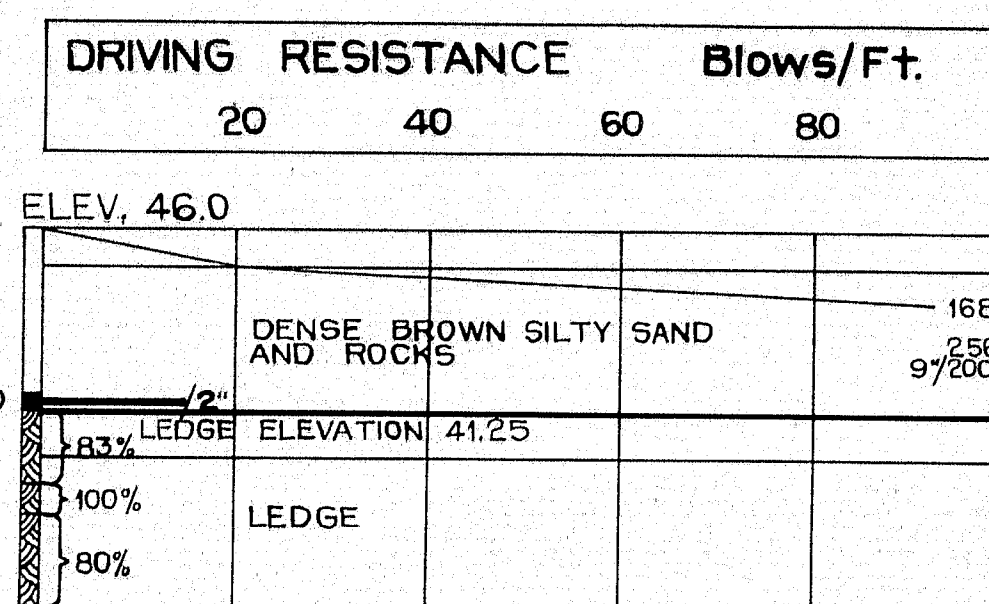
SHEET 2 OF 12 AUGUSTA, MAINE MARCH 1964



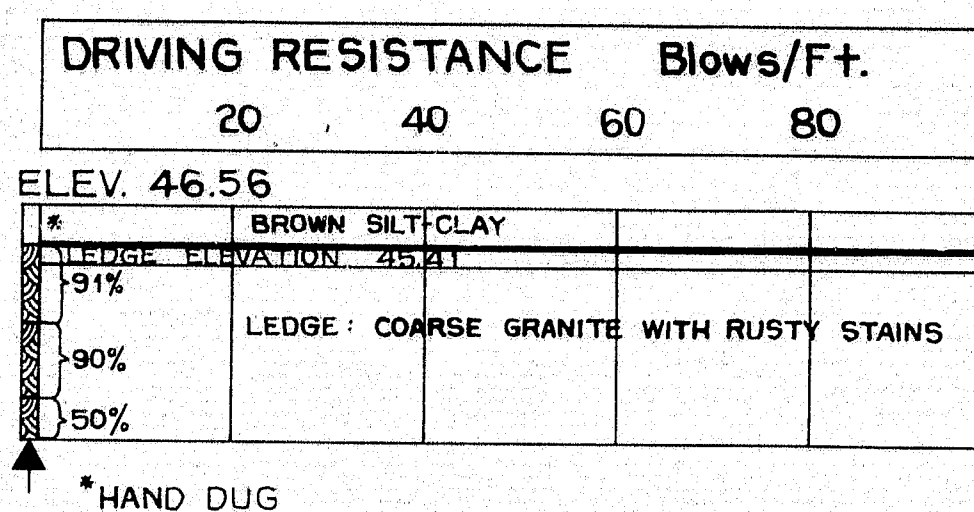
BORING CT-1 STA. 25+16 27'RT.



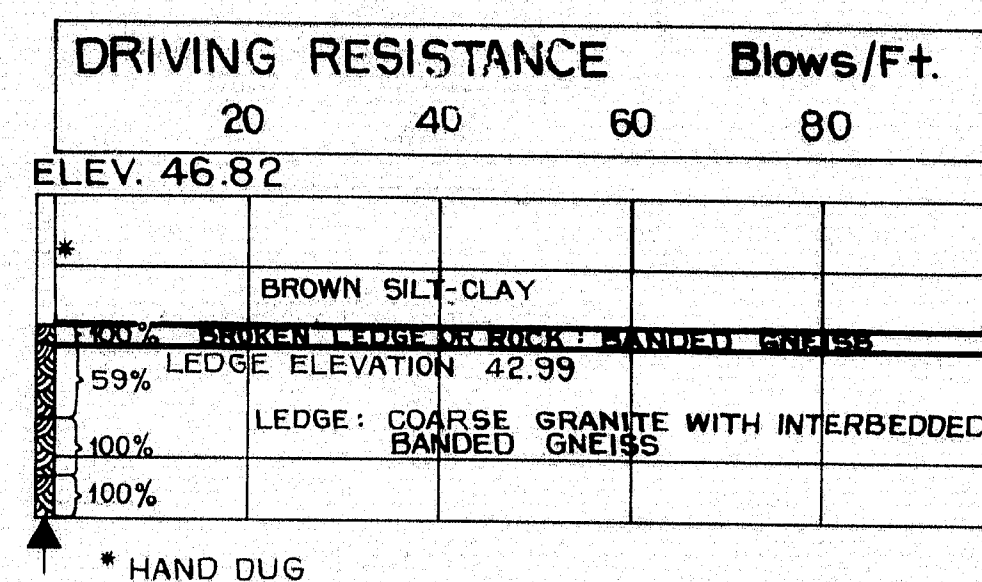
BORING CT-2 STA. 23+98 7'LT.



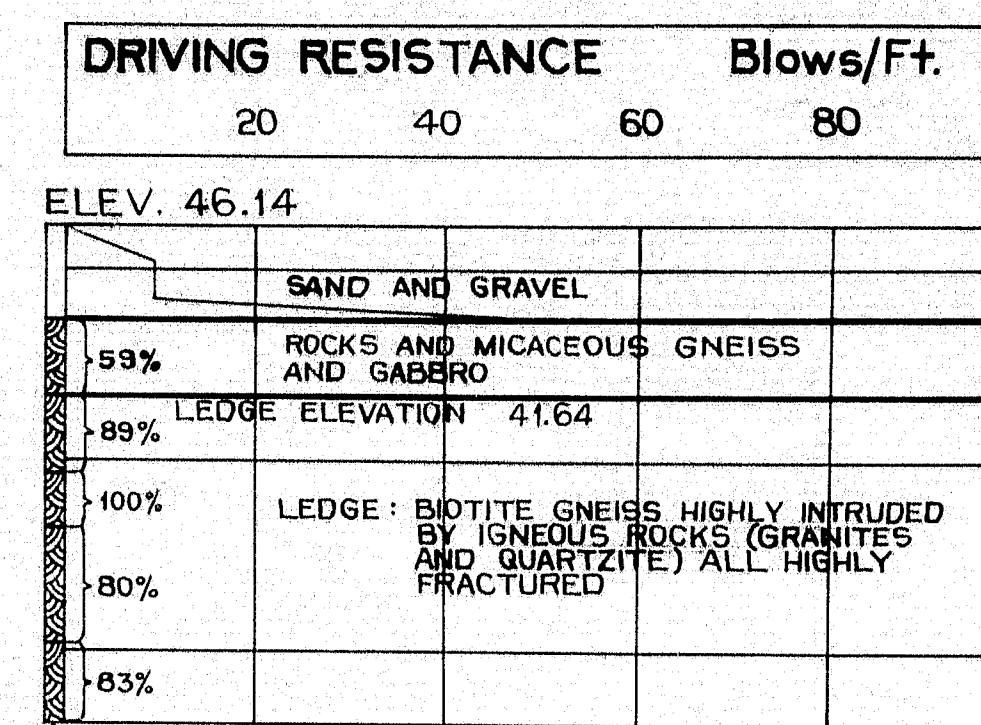
BORING CT-91 STA. 24+96 33'LT.



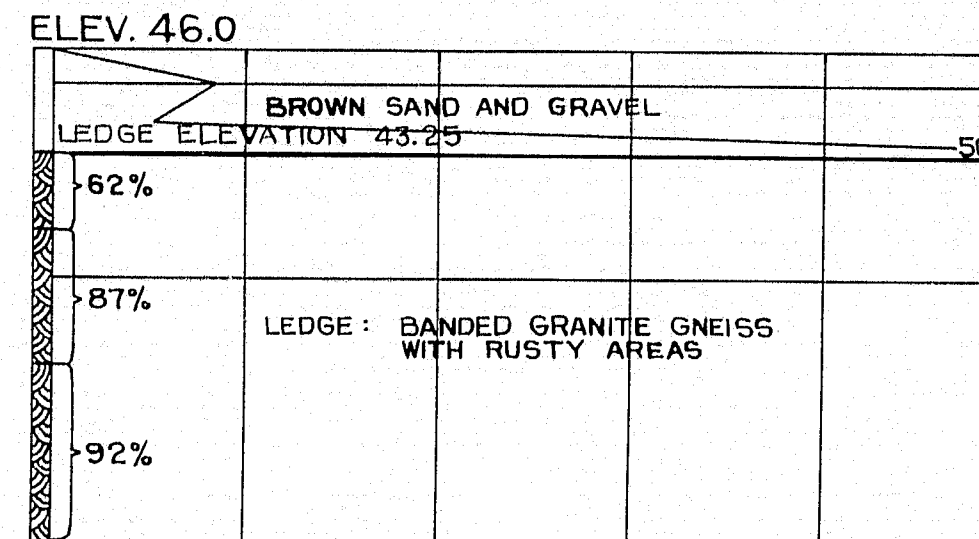
BORING CT-92 STA. 24+99 18'LT.



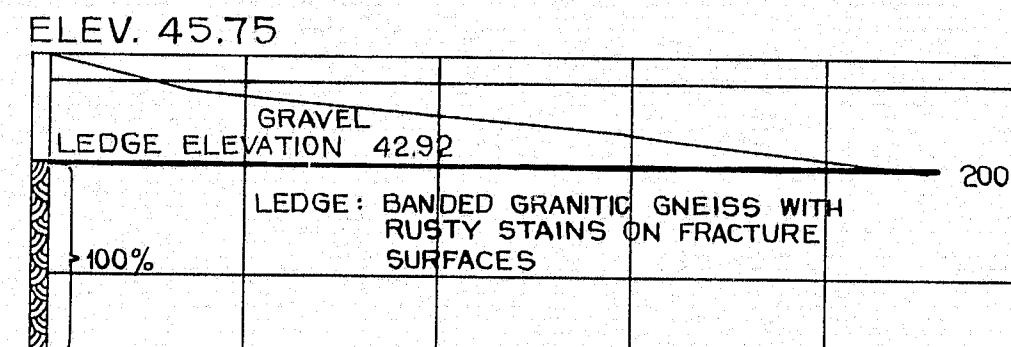
BORING CT-93 STA. 24+99 3'LT.



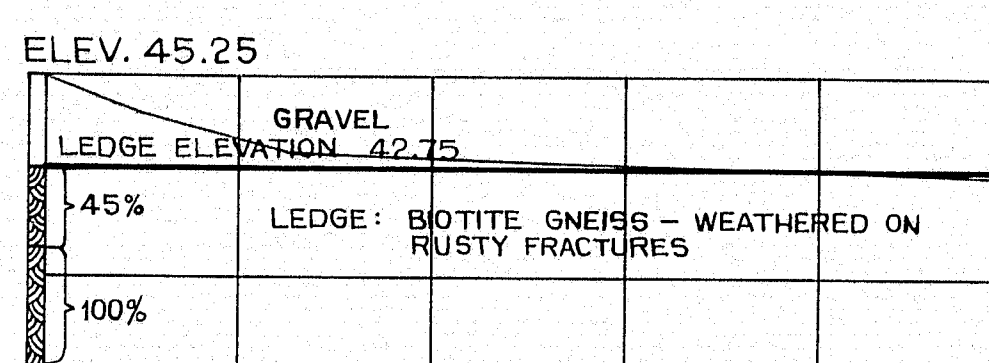
BORING CT-94 STA. 24+26 4'LT.



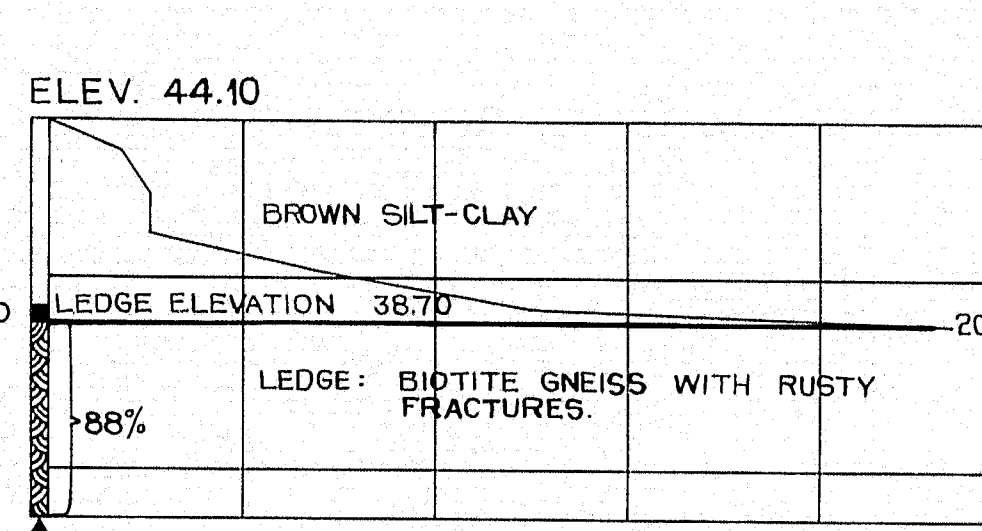
BORING CT-95 STA. 24+22 19'LT.



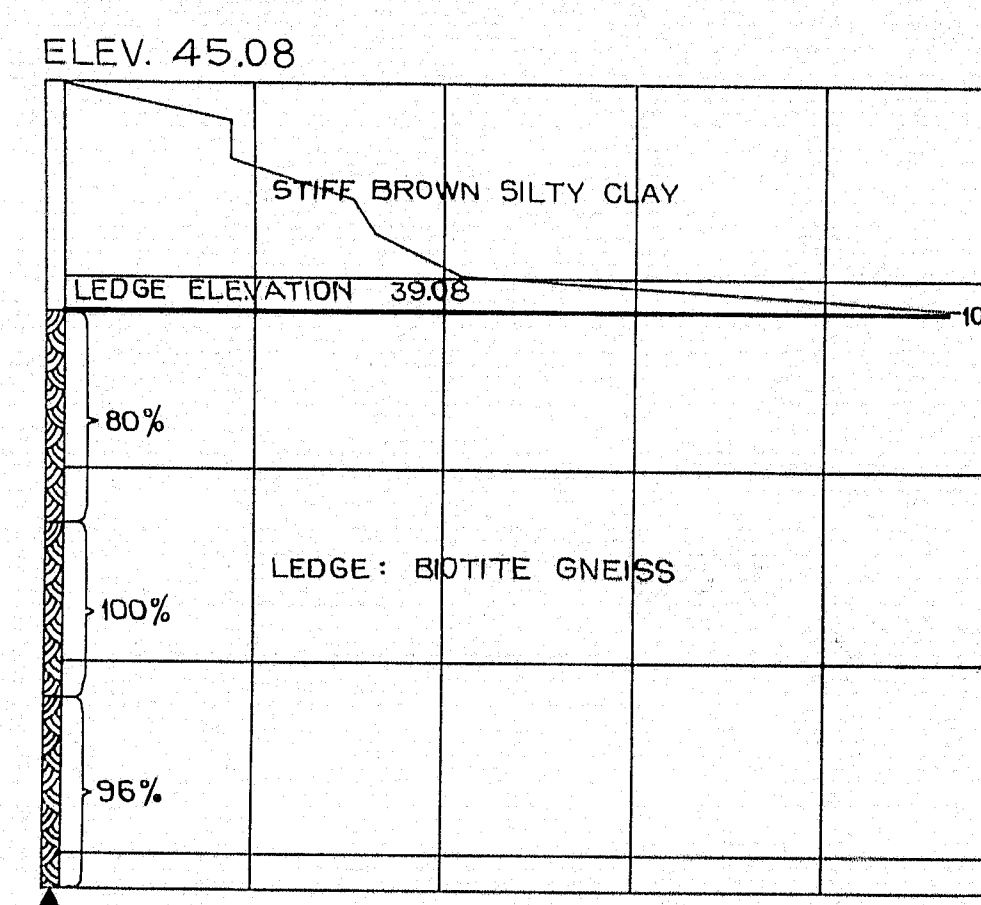
BORING CT-96 STA. 24+20 34'LT.



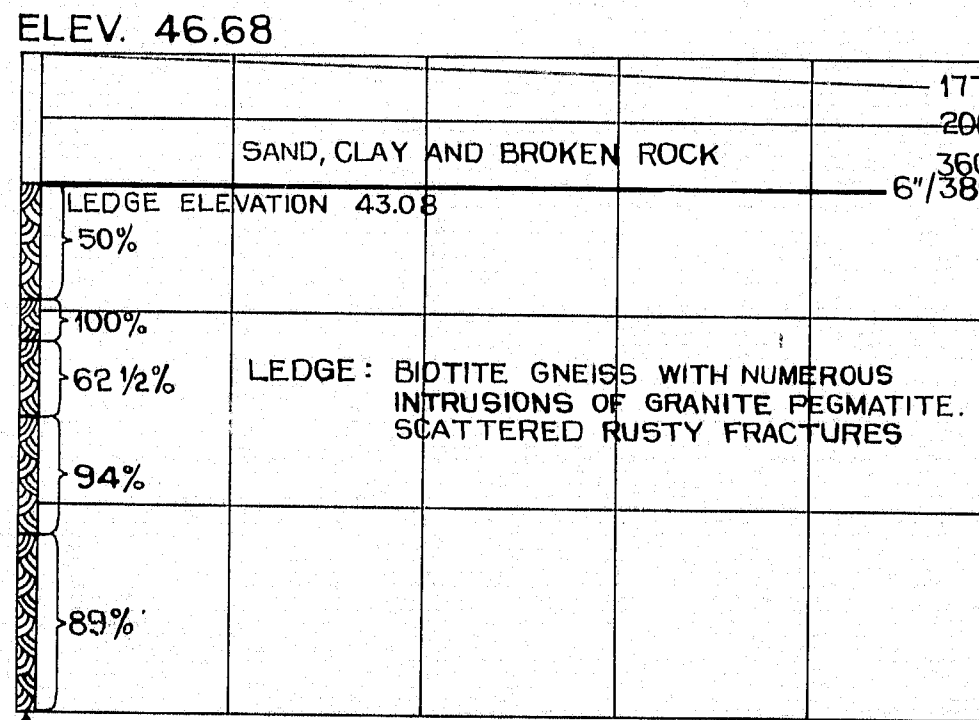
BORING CT-97 STA. 23+51 20'LT.



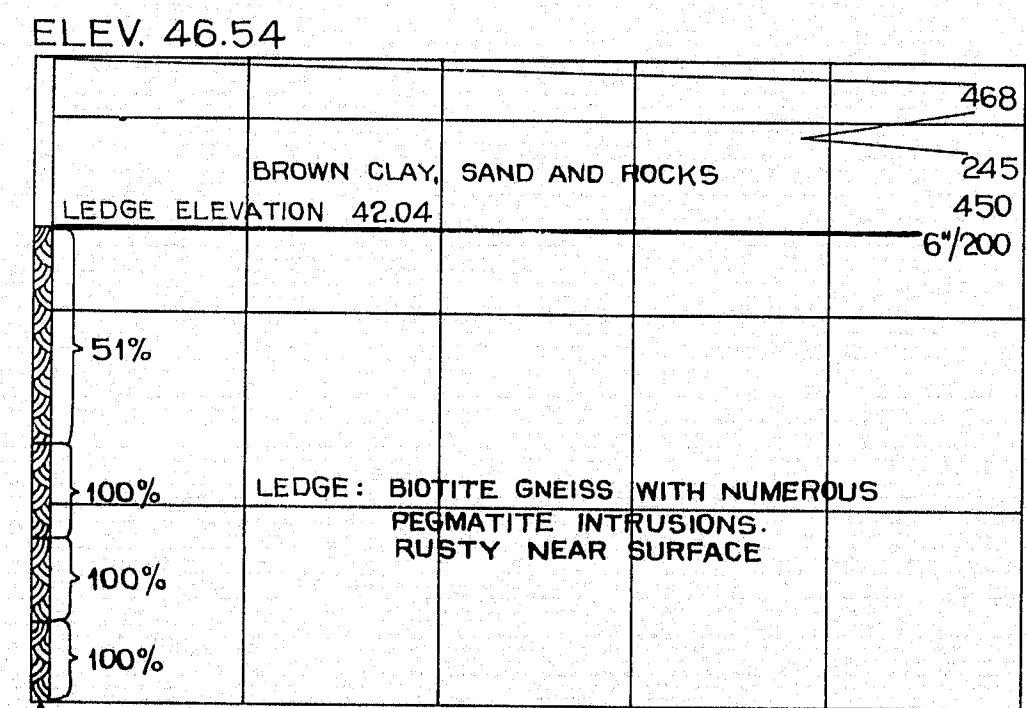
BORING CT-56 STA. 23+44 2'LT.



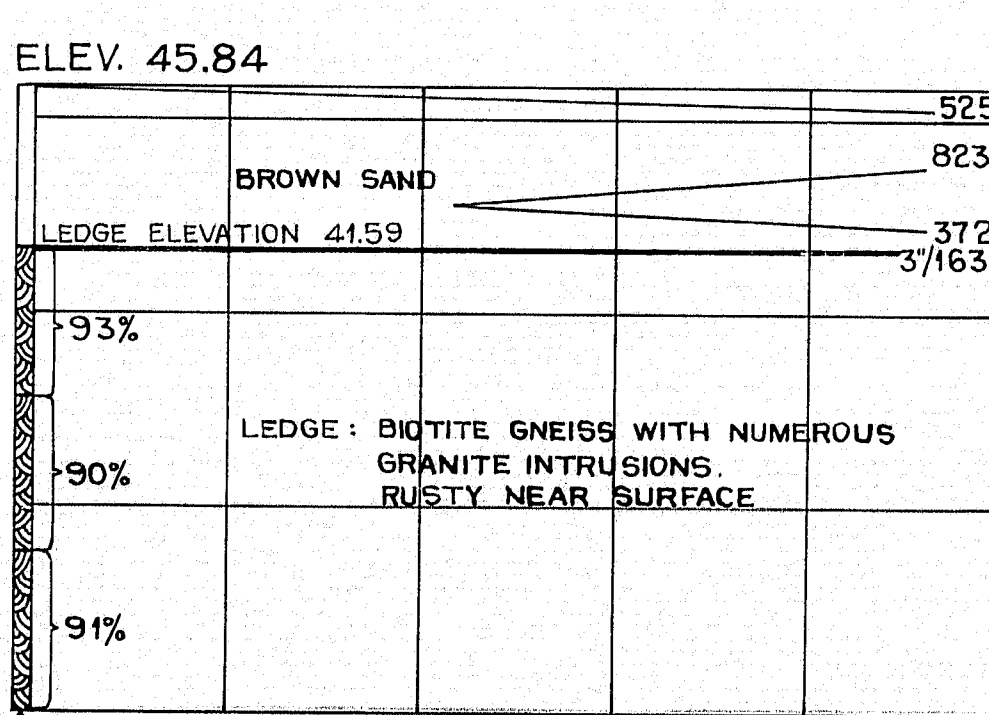
BORING CT-57 STA. 24+40 6



BORING CT-58 STA. 24+85 6



BORING CT-59 STA. 25+80 6



BORING NOTES

- ALL SAMPLES AND VANS 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
- ID 54H SAMPLER #1290'S
- MD 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.
- BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
- LOCATIONS CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK.

DESIGN -
TRACE -
CHECK -

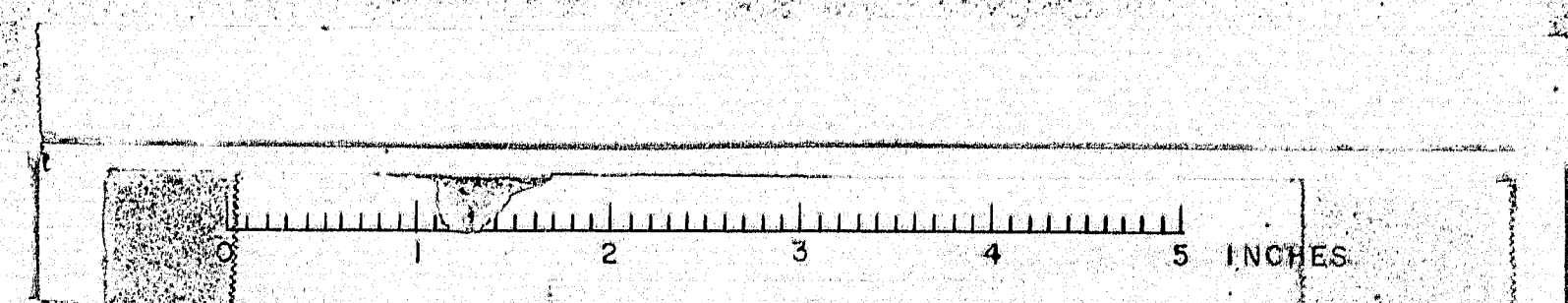
BRIDGE NO.
SURVEY -
PLOT -

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

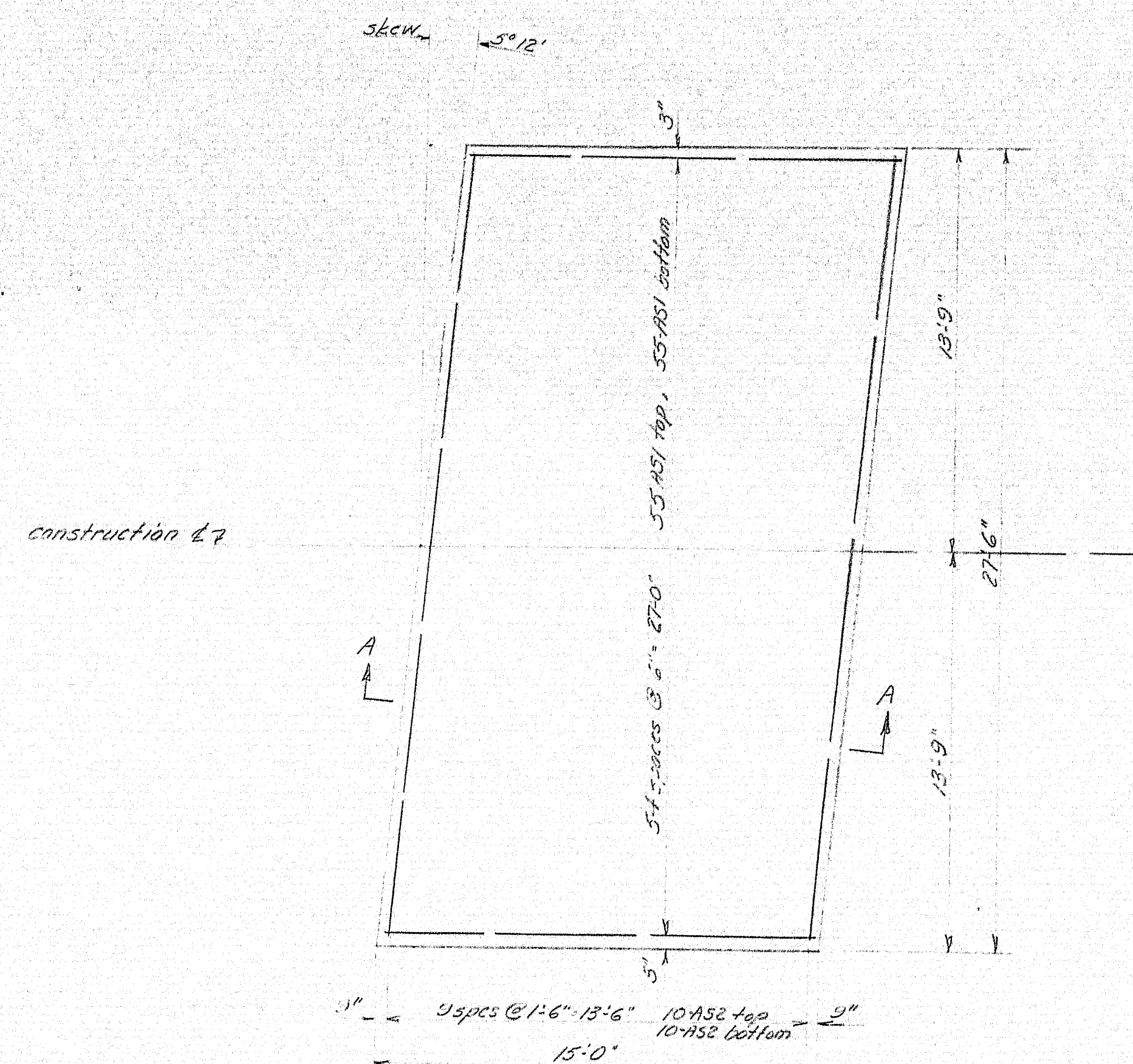
NEW MEADOWS ROAD BRIDGE
OVER U.S. 1
IN THE TOWN OF
WEST BATH
SAGadahoc COUNTY
BORING DETAILS

SHEET 3 OF 12 AUGUSTA, MAINE MARCH 1960

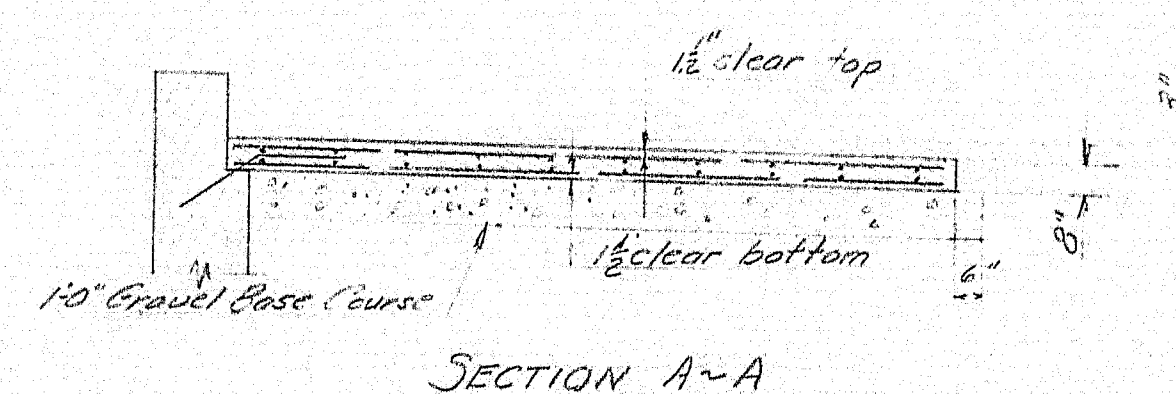
M-2381



B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-026-1(25)	23	187



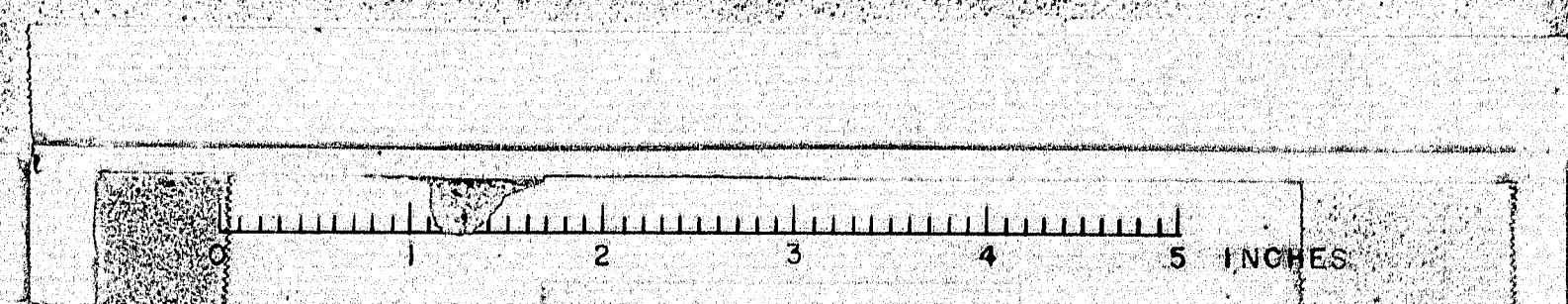
APPROACH SLAB-PLAN
2 req'd - one each Abutment

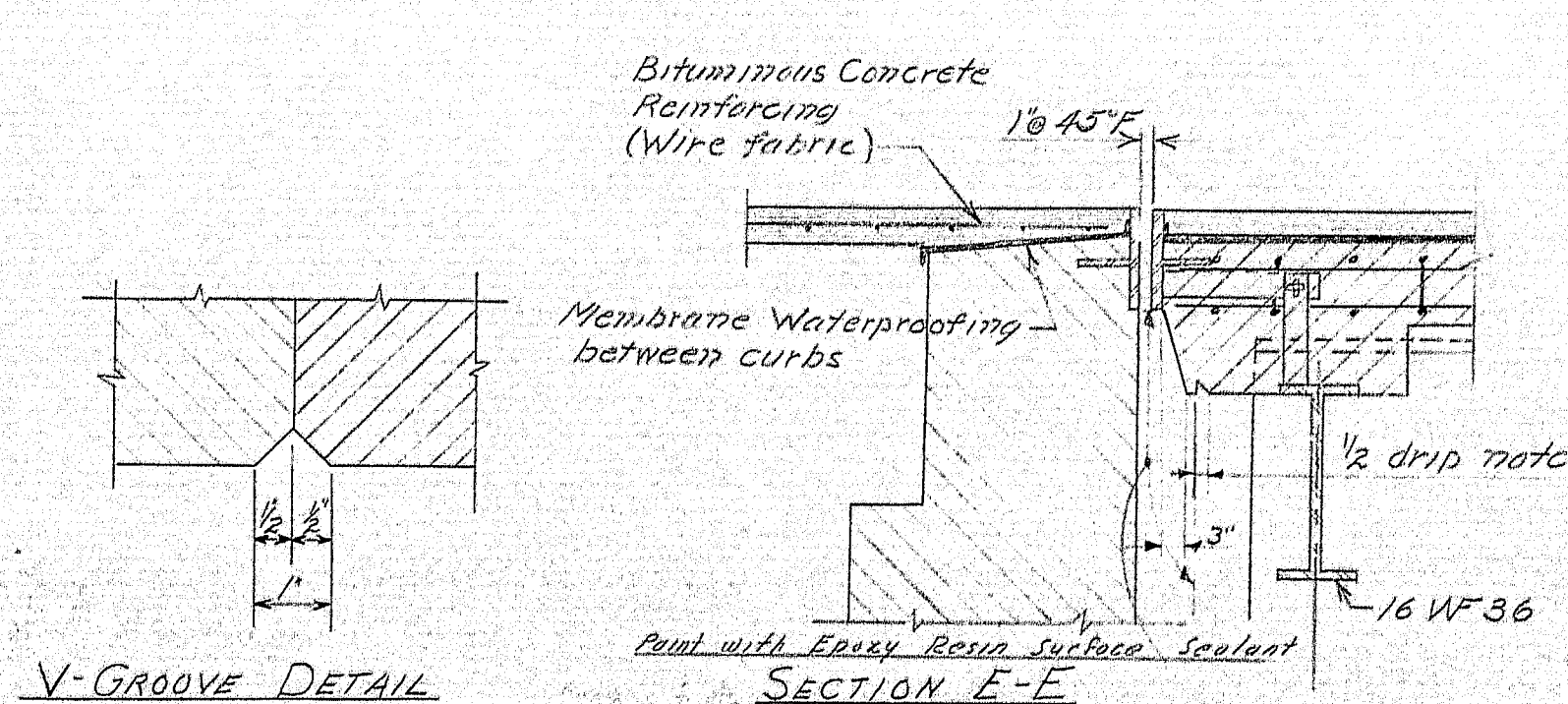
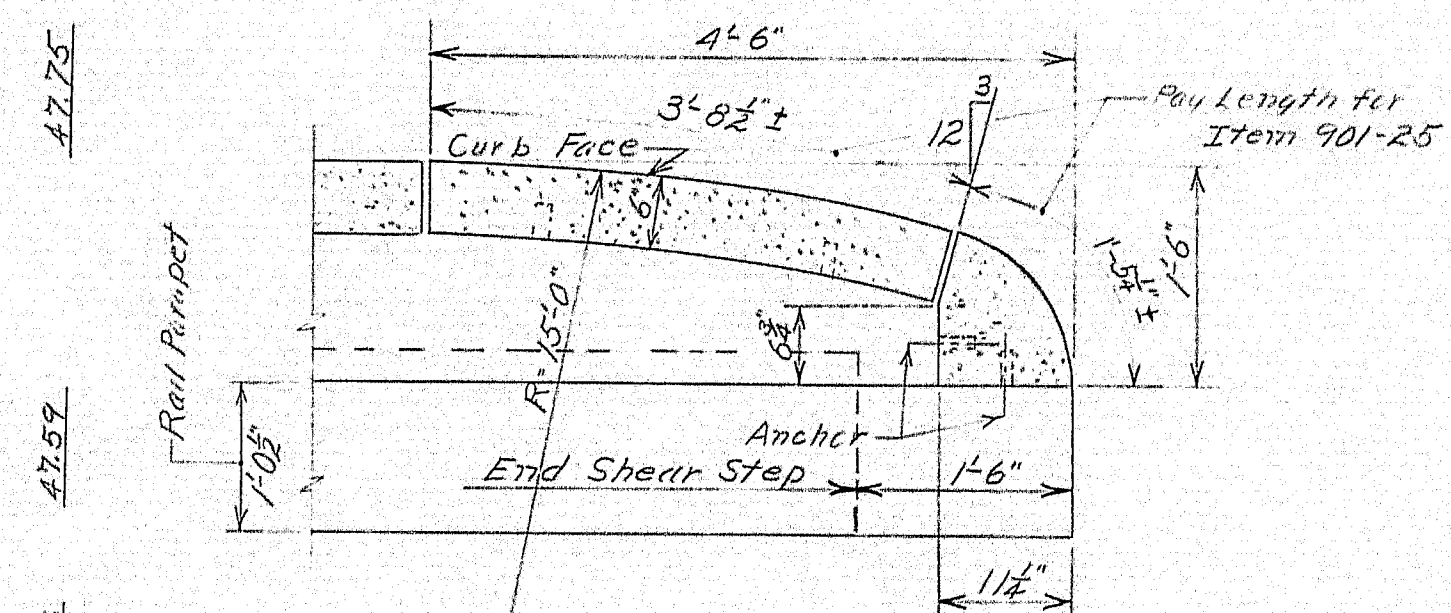
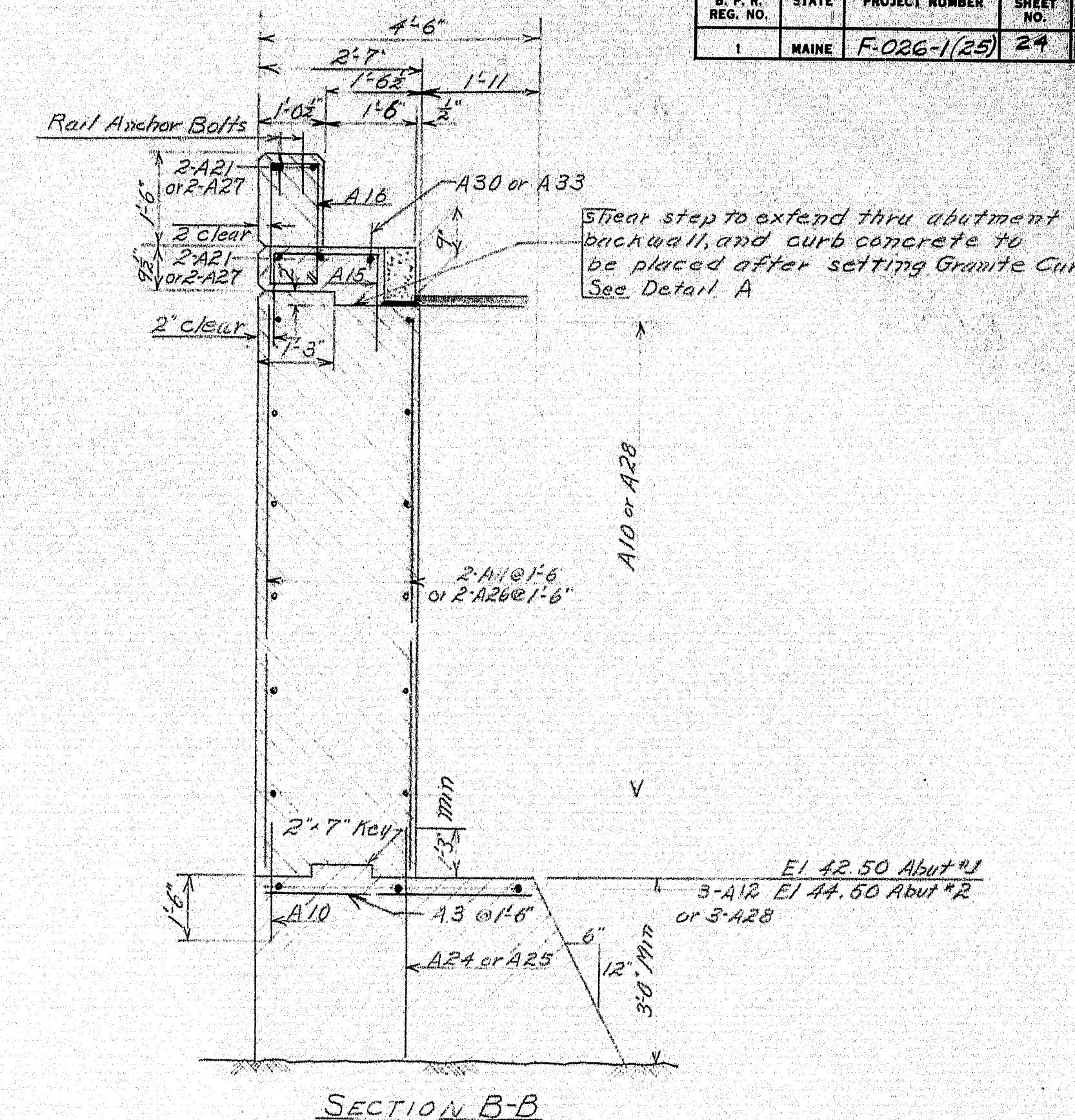
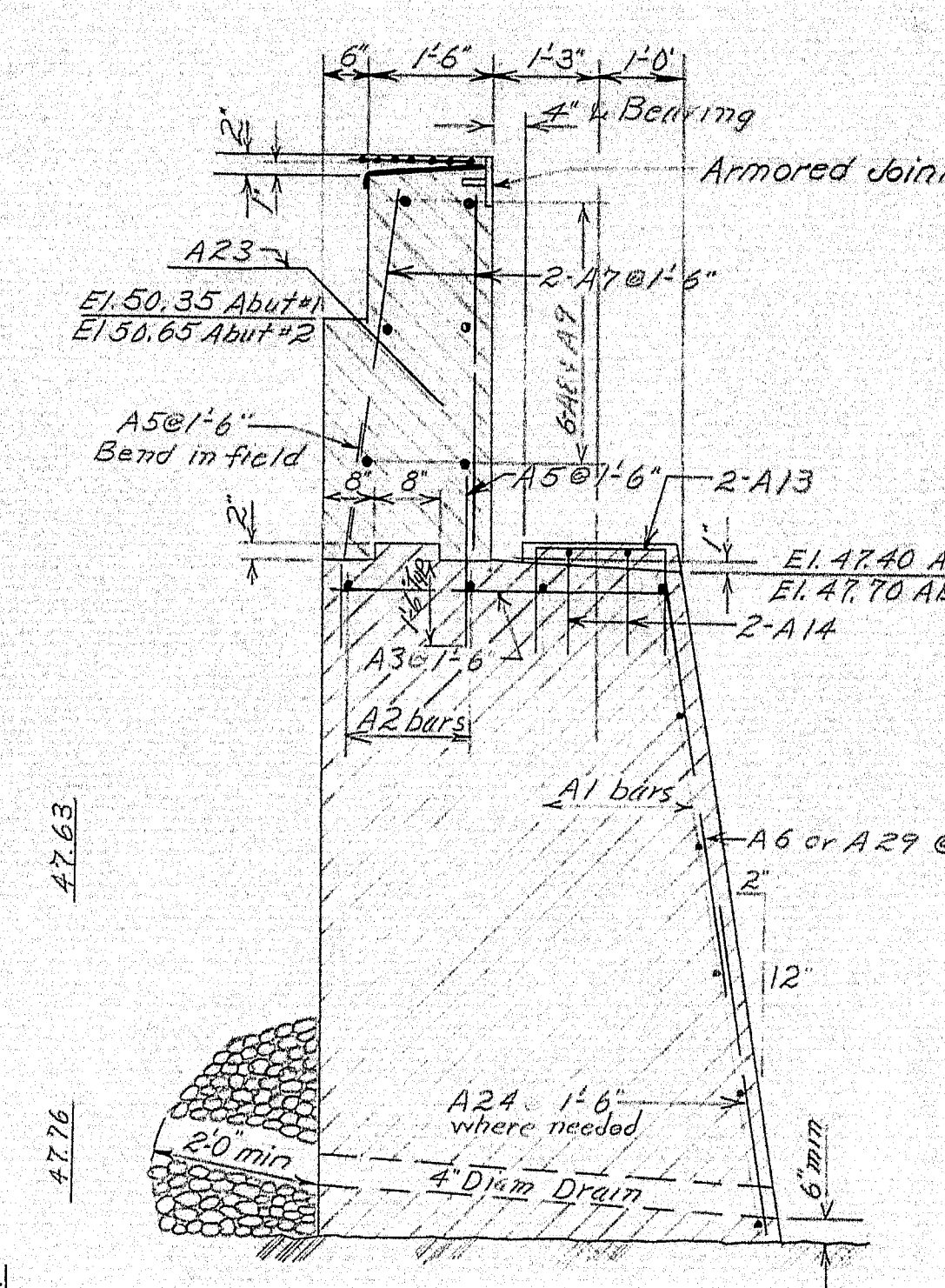
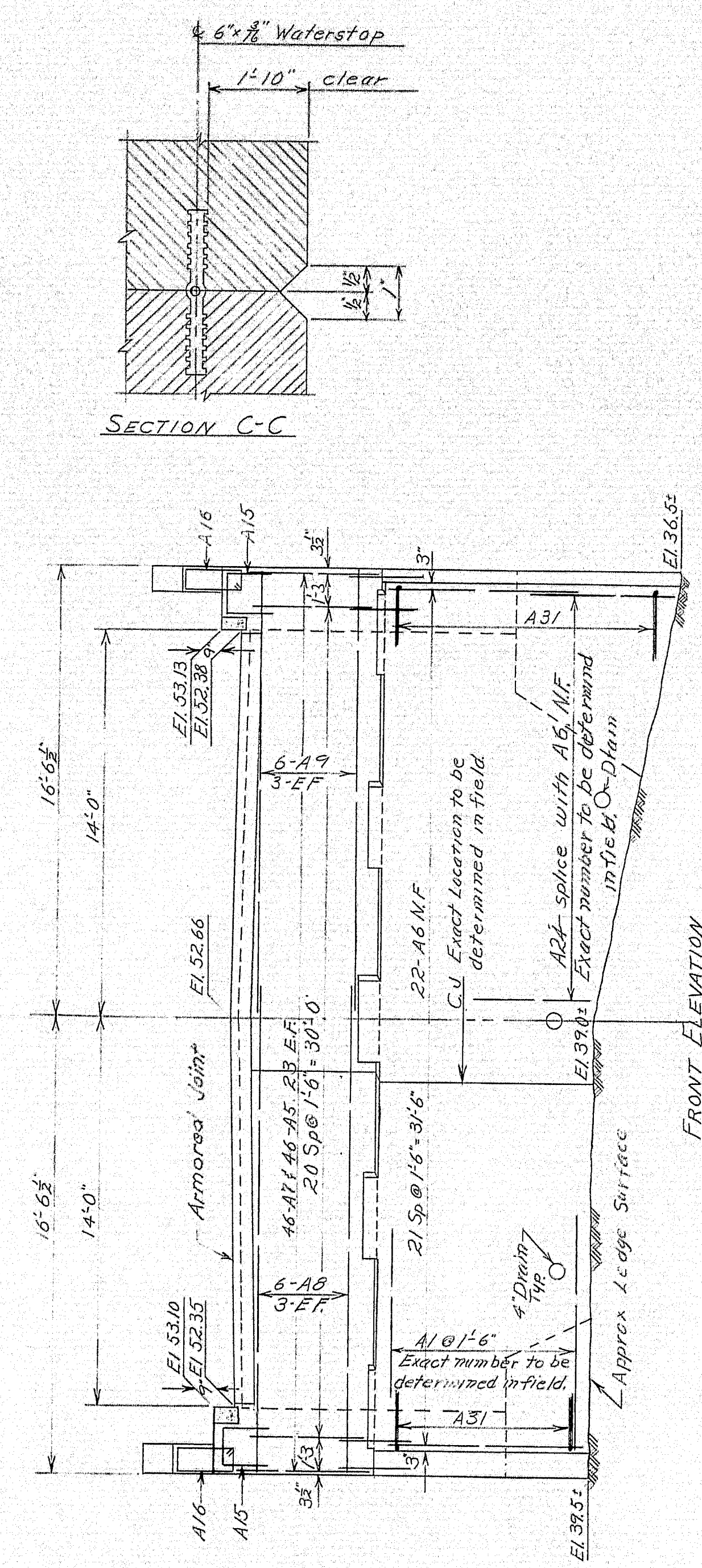
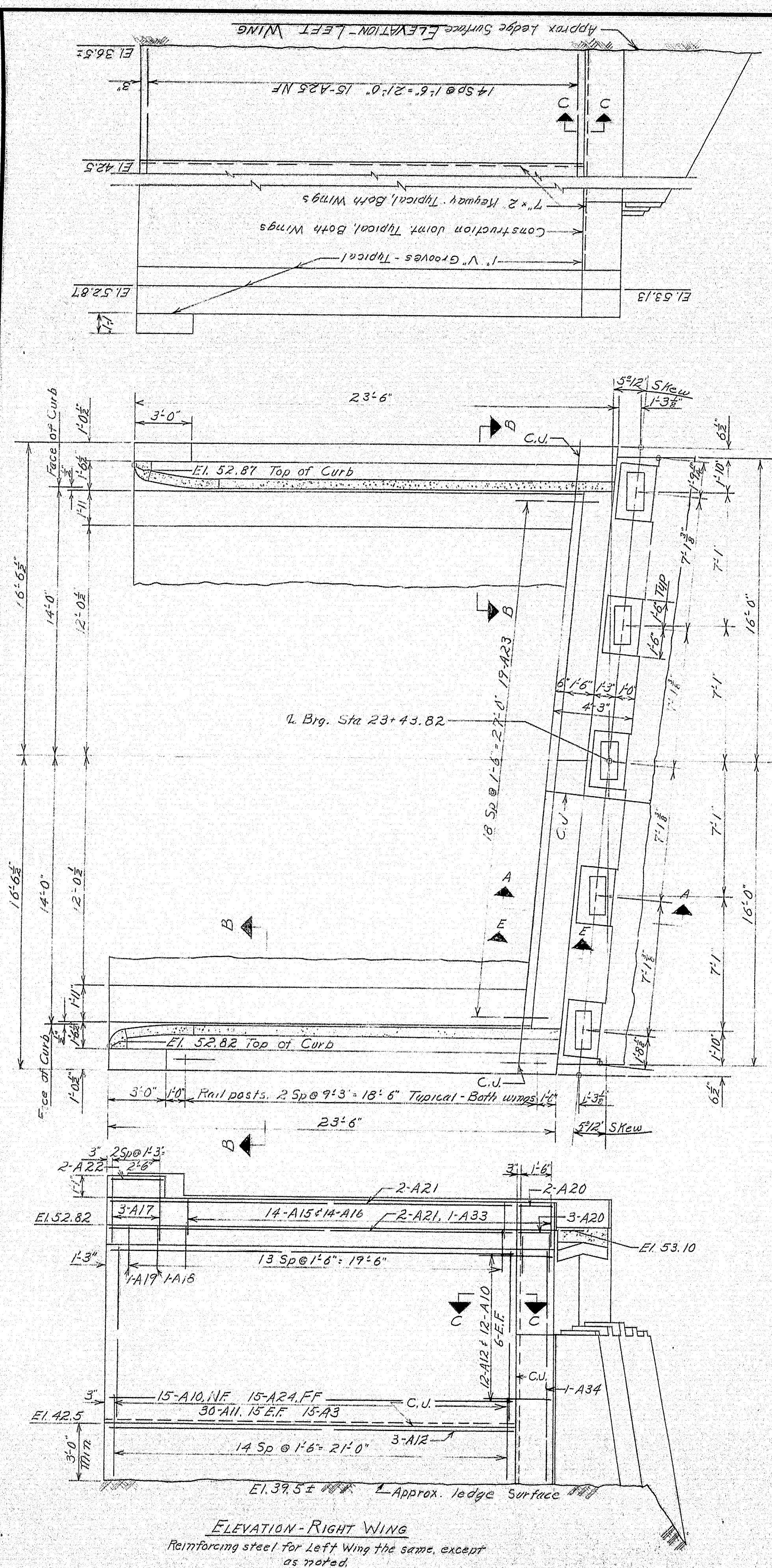


Concrete in Approach Slab to be paid for
under Item 101-33, P.C.C. Abutments & Ret. Walls.

DESIGN - <i>Shawyer</i> TRACE - <i>W. Barnes</i> CHECK - <i>CDH</i>	BRIDGE NO. SURVEY PLOT
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
NEW MEADOWS ROAD BRIDGE OVER ROUTE US-1 IN THE TOWN OF WEST BATH SAGadahoc COUNTY APPROACH SLABS	
SHEET 4 OF 12 AUGUSTA, MAINE FEB. 1964	

M-2382





GENERAL ABUTMENT NOTES:
Fill area between wings to 1/4" beyond end of wings and to elevation 49.3± Abut #1, 49.6± Abut #2 with Gravel Berceau.
All weathered and loose or broken ledge to be removed before placing concrete in footings or breastwall.
Dress bearing areas 1' larger all around, then masonry plates, to exact elevations shown.
F.F. = Far face. N.F. = Near Face. E.F. = End Face.
Paint bridge seat, face of backwall, face of breastwall and end of roadway slab with Gray Epoxy Resin Surface Sealant.
Reinforcing steel cover 5" unless noted.
Maximum footing toe pressure = 3.25 tons/sq.ft.
Cover vertical construction joints on backside with masonry similar to that specified for abutment backwall.
Materials placed within 2' of 4" drain shall have a minimum diameter of 2" to be incidental to Gravel Berceau item.

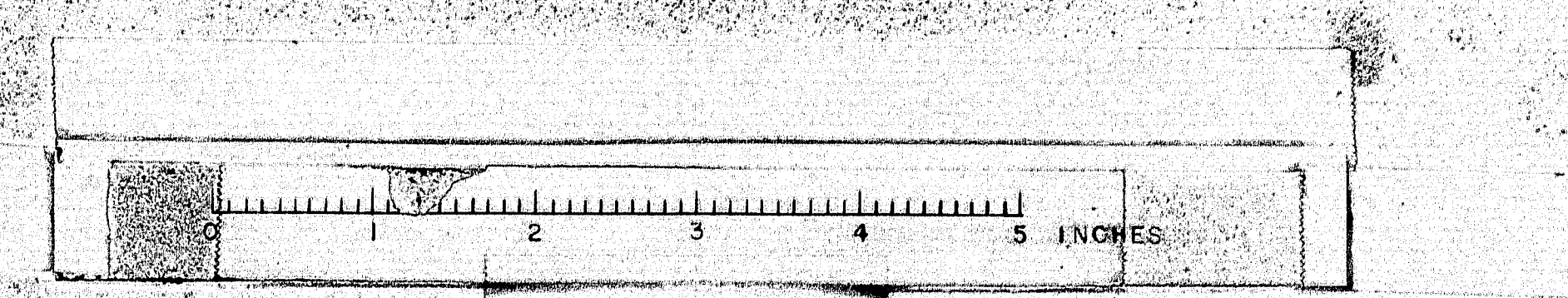
DESIGN - Shaffer
TRACE - L
CHECK - CSH

BRIDGE NO.
SURVEY
PLOT

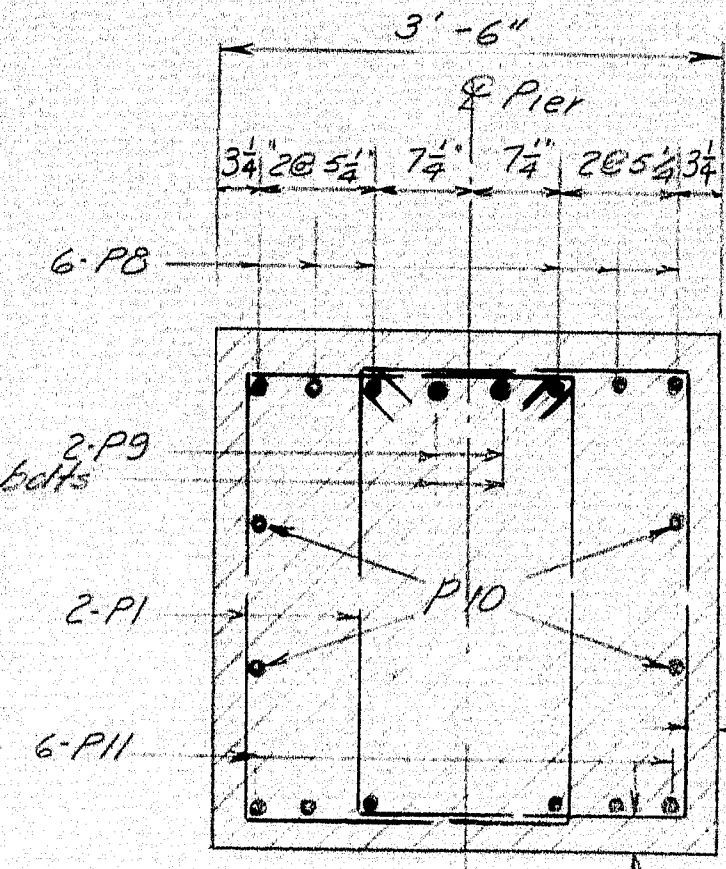
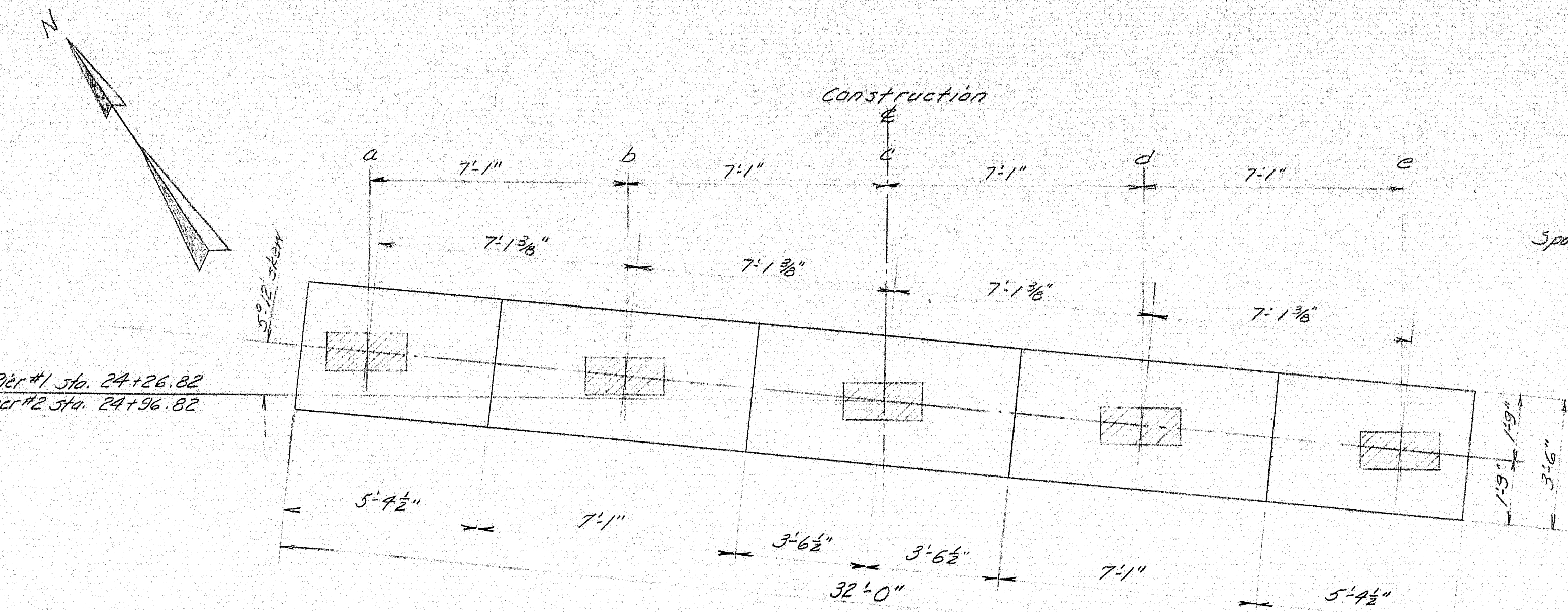
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

NEW MEADOWS ROAD BRIDGE
OVER
ROUTE US-1
IN THE TOWN OF
WEST BATH
SAGadahoc COUNTY
ABUTMENT NO. 1

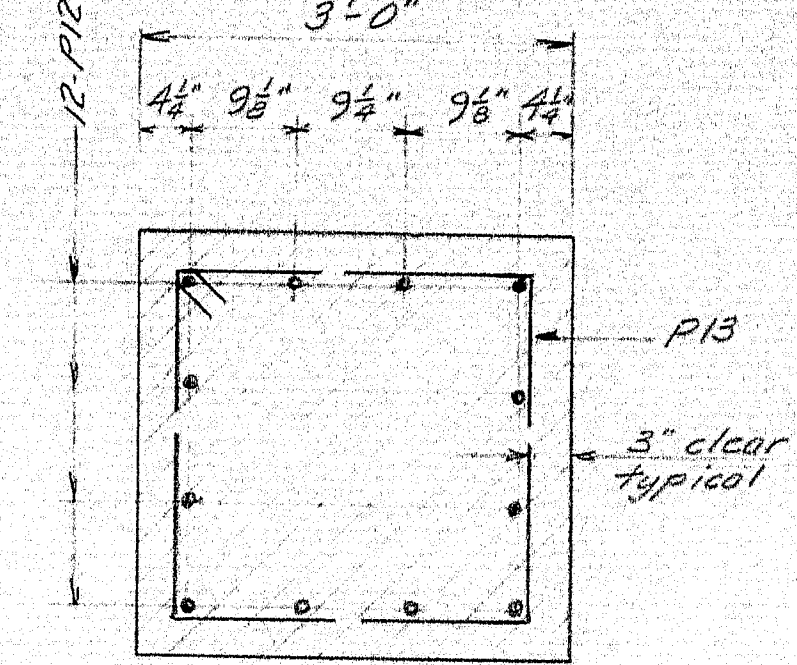
SHEET 5 OF 12 AUGUSTA, MAINE FEB. 1964



D. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	F-026-1(25)	24	187



SECTION A-A



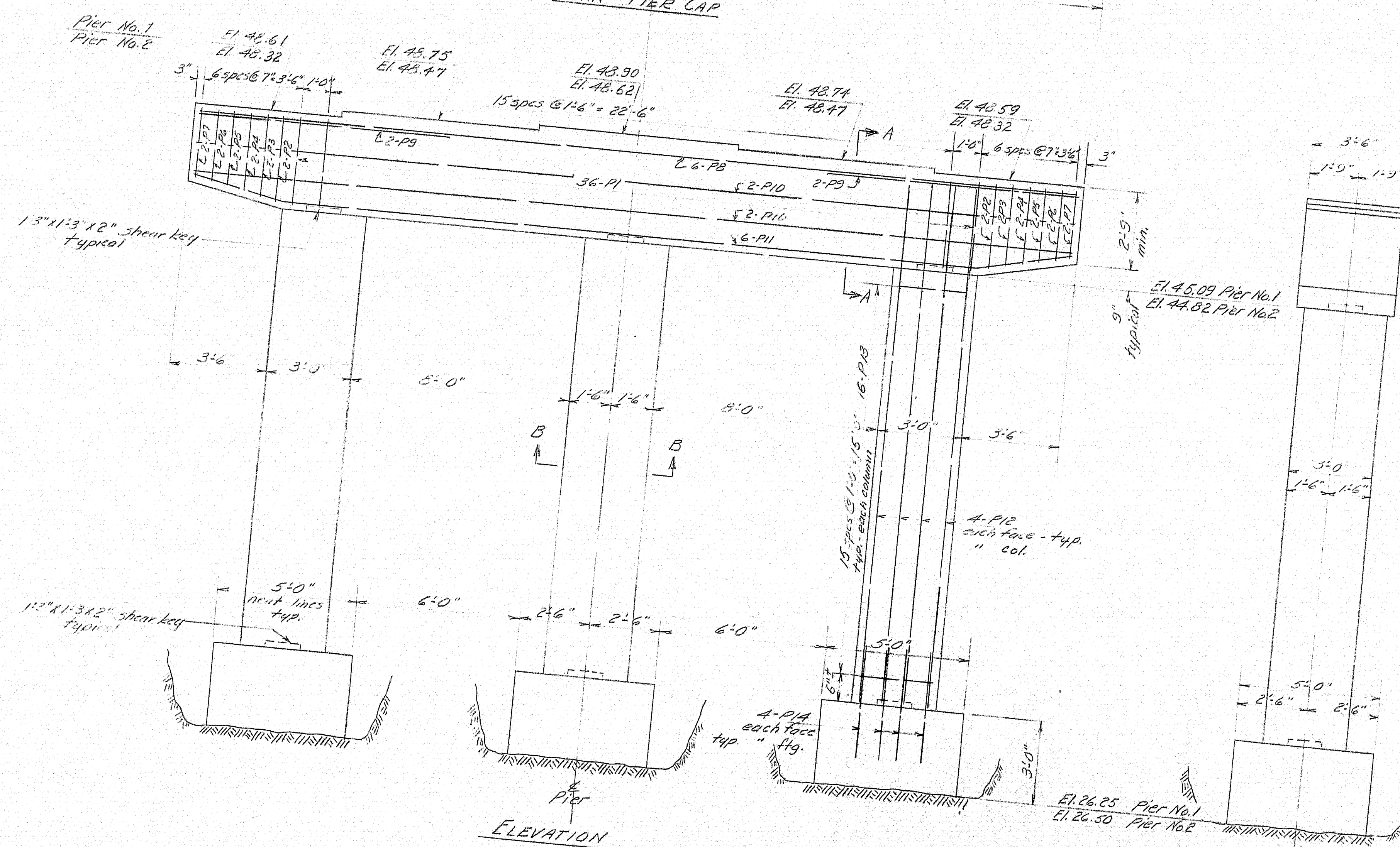
SECTION B-B

Dress shaded bearing areas 1" larger all around than masonry plates to exact elevations shown.

Footings side forms may be omitted if approved by the engineer. No payment for Portland Cement Concrete outside the neat lines shown, will be made.

In case of overbreakage or ledge downward, no payment will be made for material back Excavation. Piers Portland Cement Concrete, Pier for more than 5' below the elevation shown.

All weathered or broken ledge shall be removed before any footing concrete is placed.
Max Footing Toe Pressure = 14 Tons/s.f.

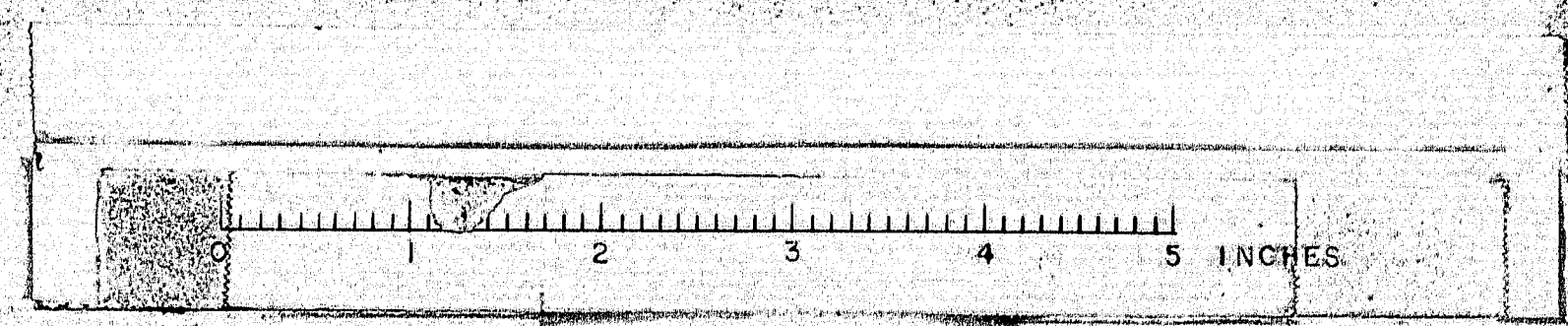


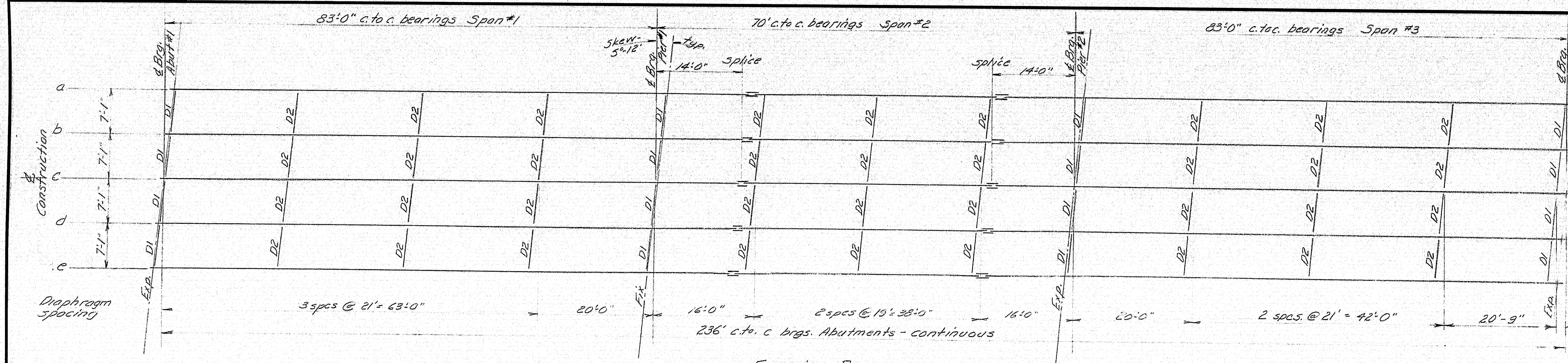
ELEVATION

END ELEVATION

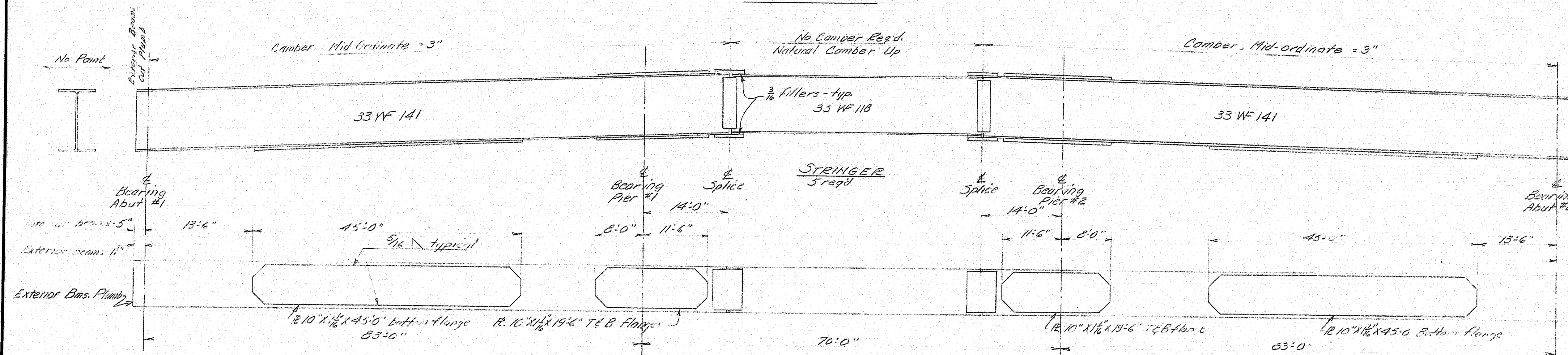
DESIGN - Shaffer TRACE - Shaffer CHECK - CDH	BRIDGE NO. SURVEY PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION NEW MEADOWS ROAD BRIDGE OVER ROUTE US-1 IN THE TOWN OF WEST BATH SAGadahoc COUNTY PIERS	
SHEET 7 OF 12 AUGUSTA, MAINE FEB. 1964	

M-2385

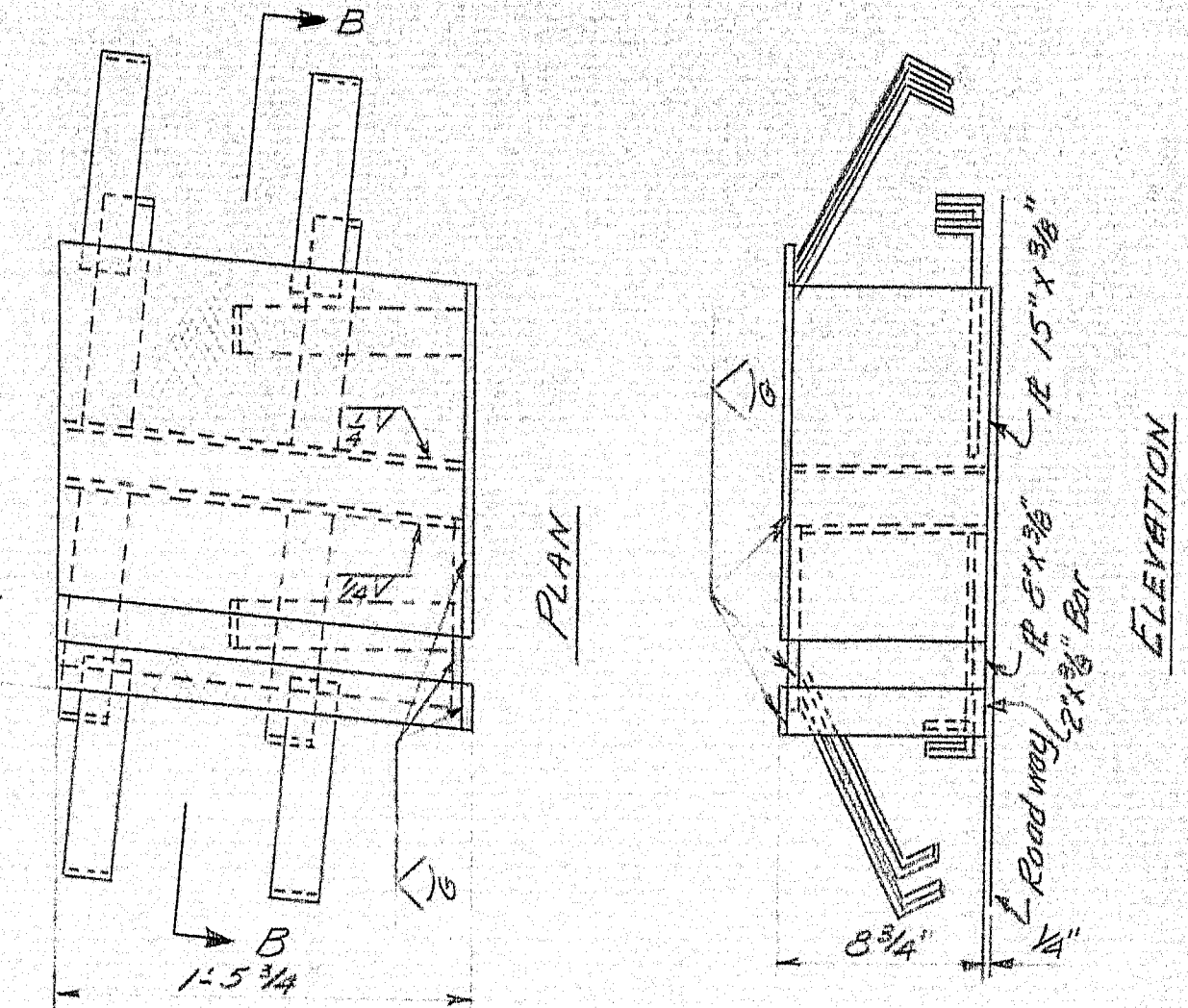




ERECTOR PLAN



STRINGER ELEVATION

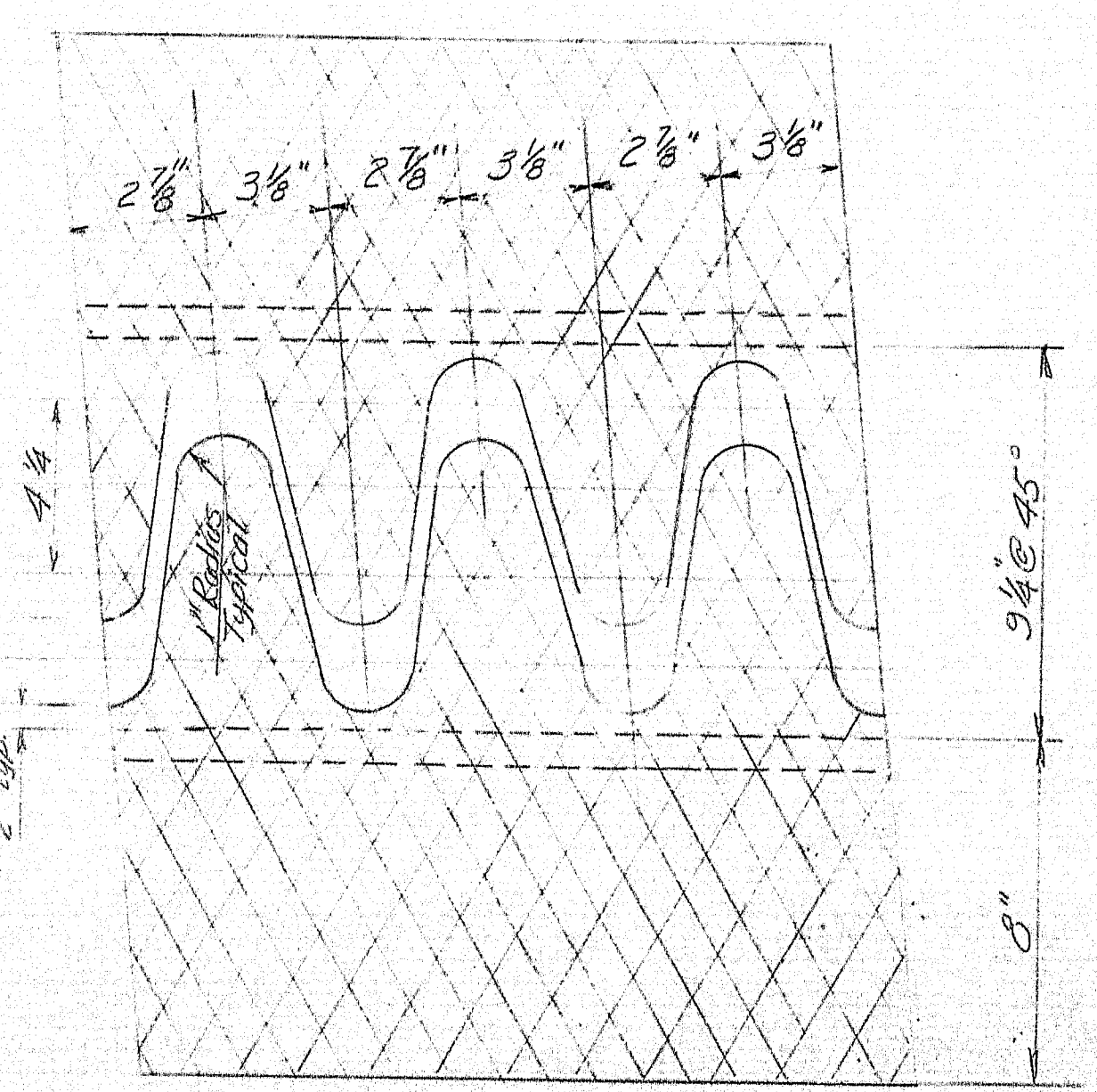


SIDWALK EXPANSION DAM
1 req'd as shown for right sidewalk - Abut No. 2
1 req'd opposite hand left sidewalk - Abut No. 2

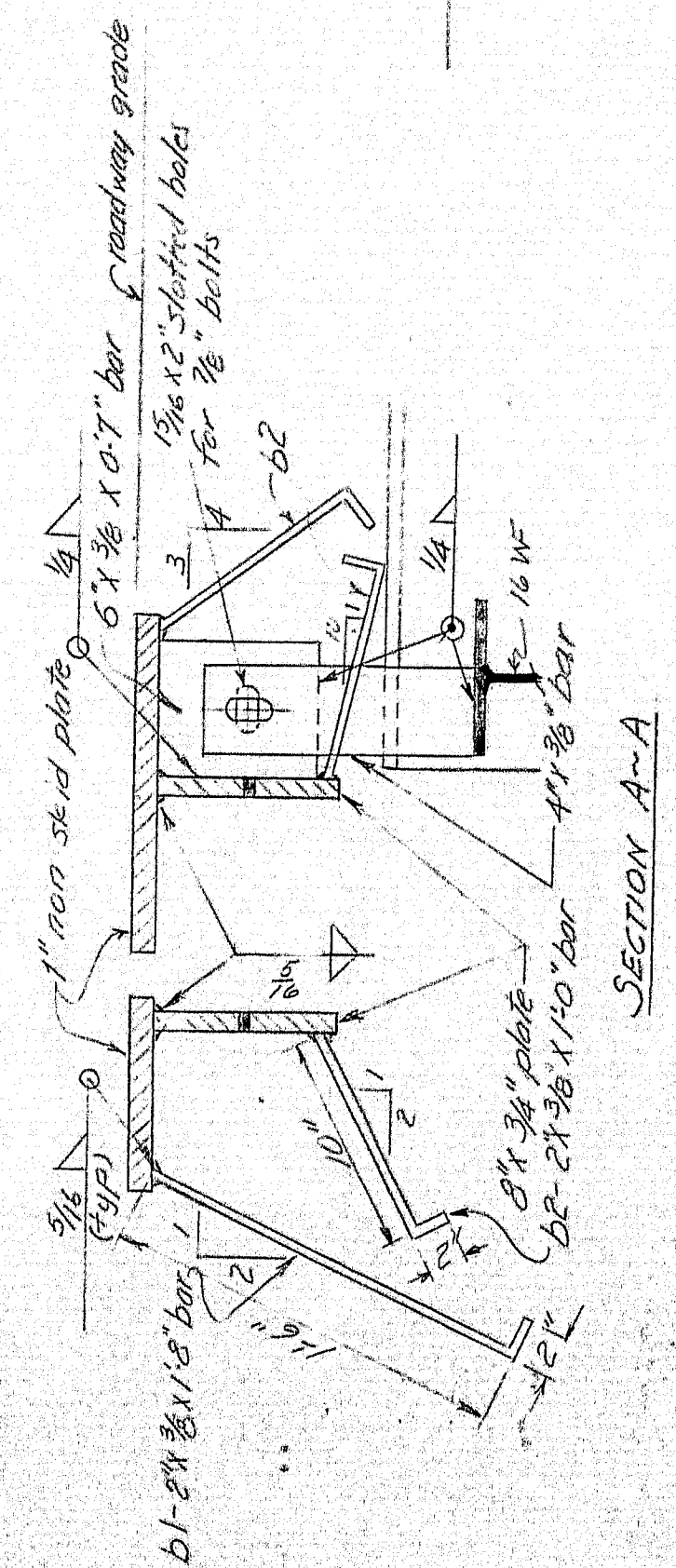
BEARINGS -
See Standard Details Sheet No. RD-101-6
Abutment No. 1 - Expansion E.P.C. 5 req'd
Abutment No. 2 - Expansion E.P.C. 5 req'd
Pier No. 1 - Fixed E.P.C. 5 req'd
Pier No. 2 - Expansion E.P.C. 5 req'd

DIAPHRAGMS -
See Standard Details Sheet No. RD-104-4
DI - Type B D2 - Type A

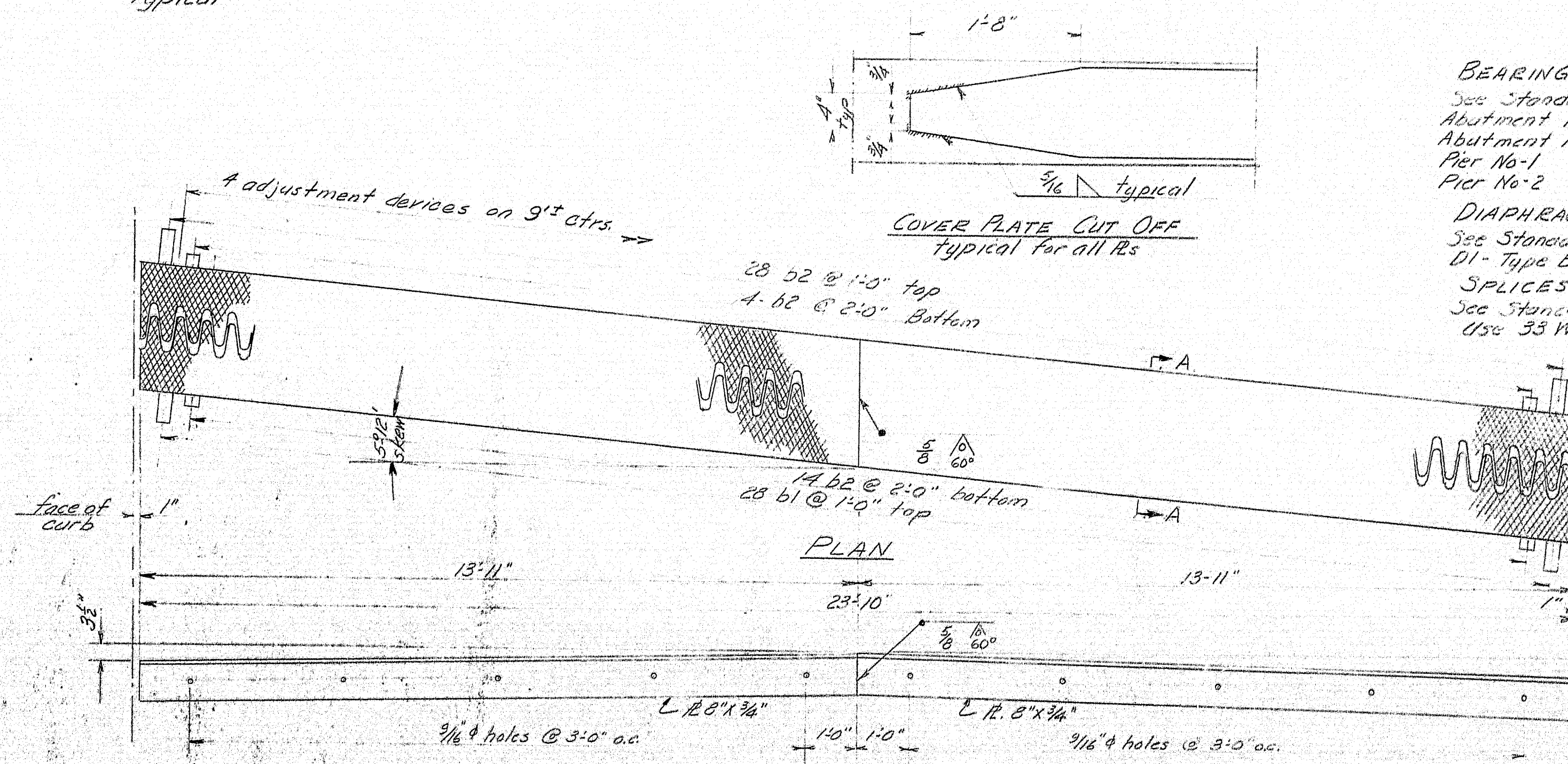
SPLICES -
See Standard Details Sheet No. RD-107-24
Use 33 WF 130



CUTTING DIAGRAM
Cut from 23' x 1' non-skid plate - match mark



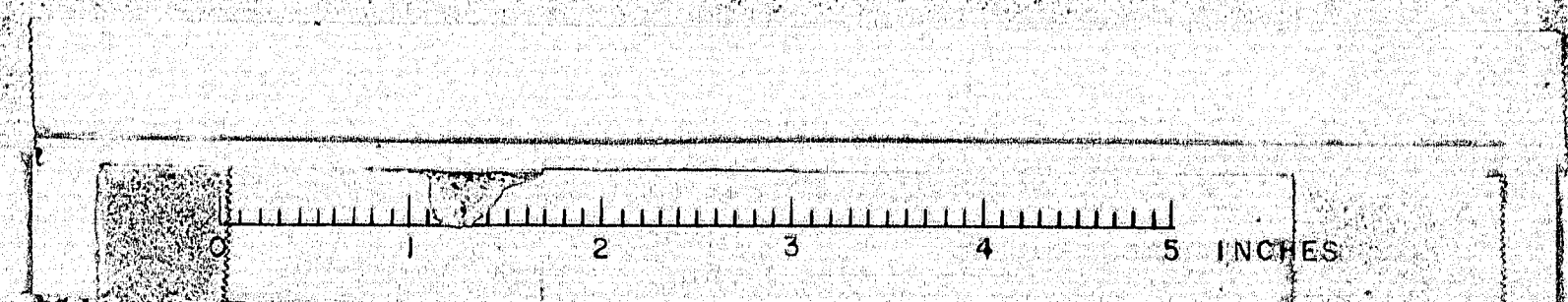
SECTION A-A

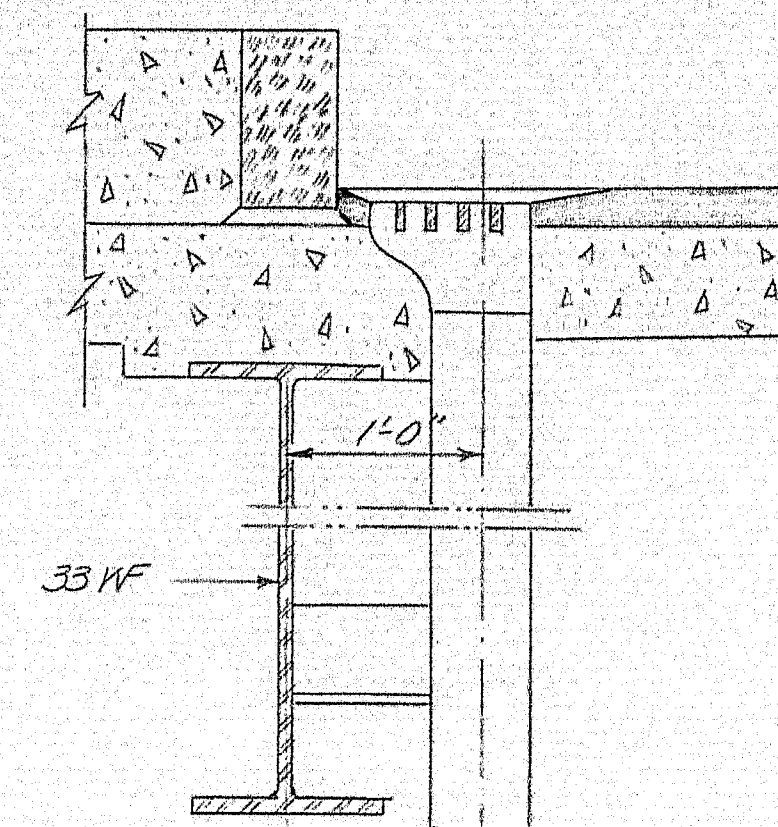
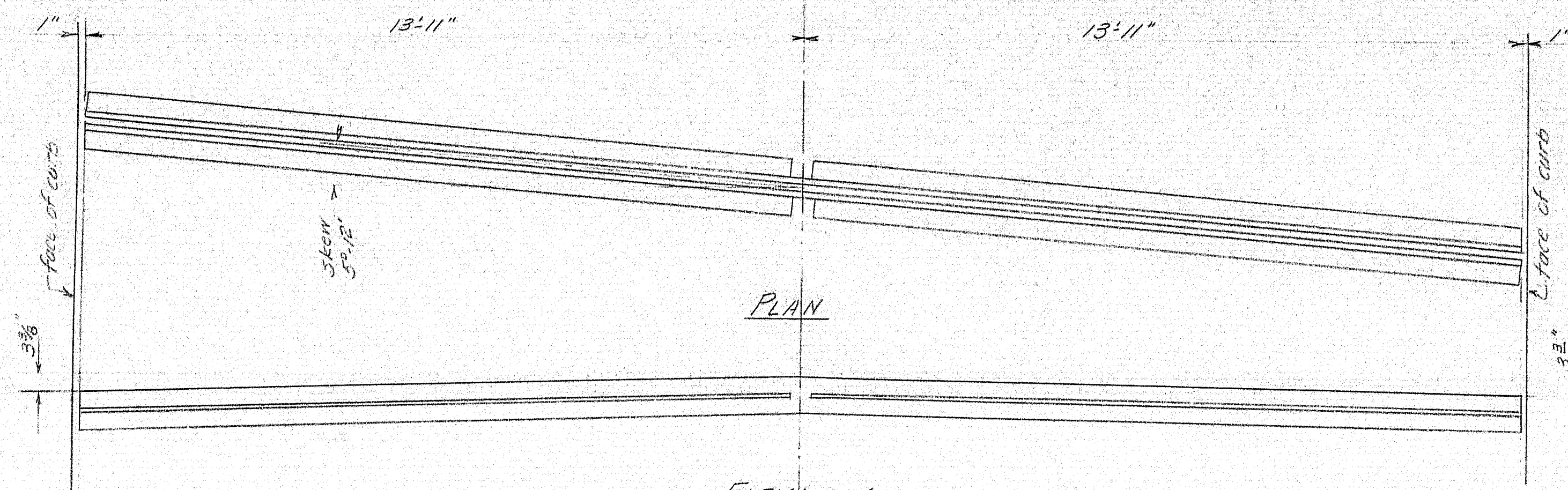


EXPANSION DAM
Treq'd at Abutment No. 2

DESIGN - <i>Prolog</i>	BRIDGE NO.
TRACE - <i>Fluorob</i>	SURVEY -
CHECK - <i>CDH</i>	PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
NEW MEADOWS ROAD BRIDGE	
OVER	
ROUTE US-1	
IN THE TOWN OF	
WEST BATH	
SAGadahoc COUNTY	
STRUCTURAL STEEL	
SHEET 8 OF 12 AUGUSTA, MAINE FEB. 1964	

M-2386

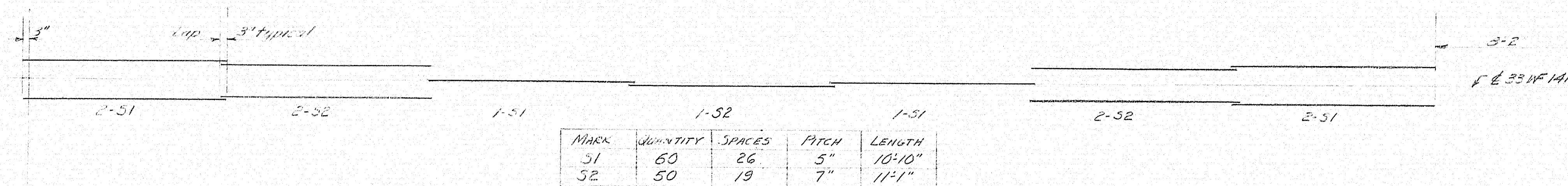
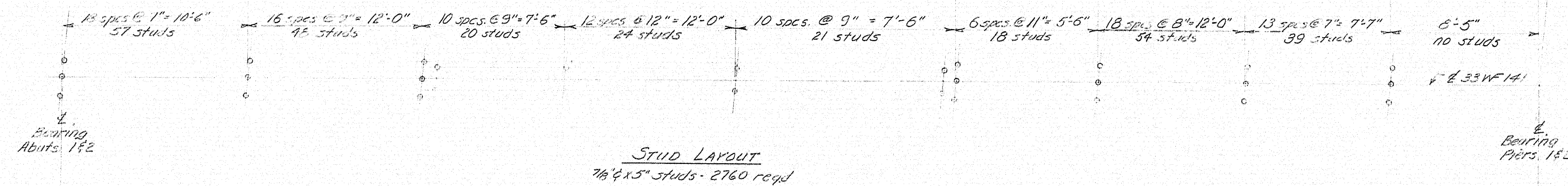




ARMORED JOINT
1 regd Abutment No. 1
For additional details see Standard Details Sh. # BD-104-64

DRAIN
12 regd
For additional details see Standard Details Sh. # BD-104-64

skew = 50.12°
typ.

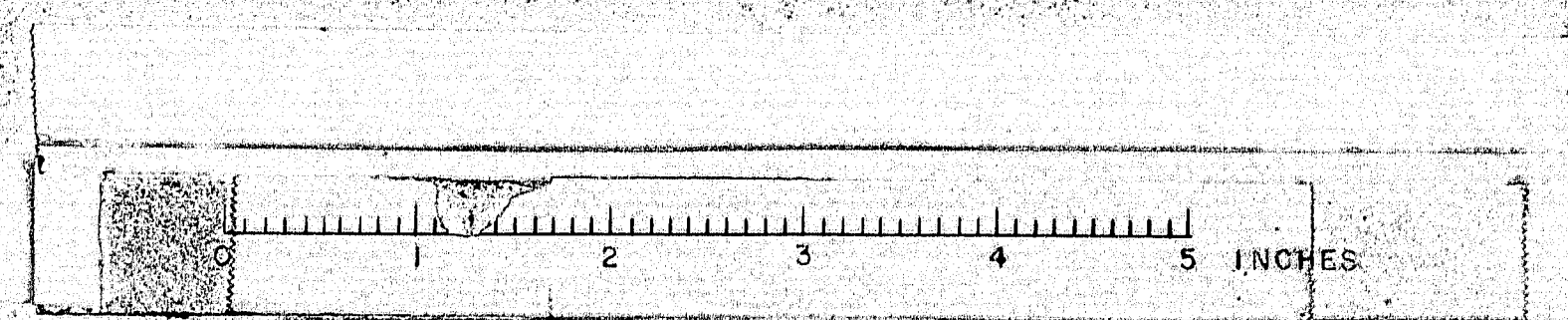


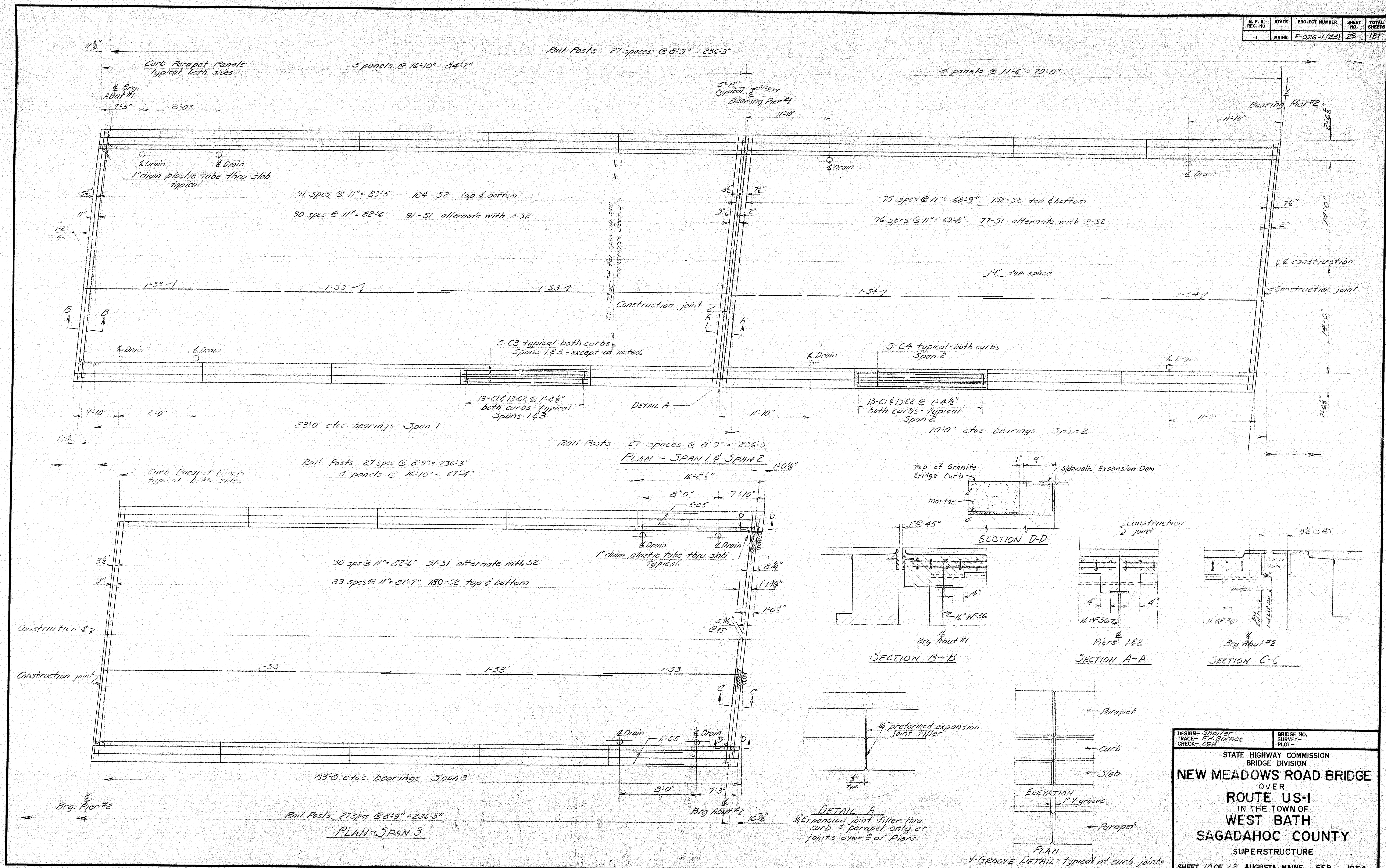
MARK	QUANTITY	SPACES	PITCH	LENGTH
51	60	26	5"	10'-10"
52	50	19	7"	11'-1"

SHEAR CONNECTORS
Span 1 & Span 3 the same, none on Span 2
For additional details see Standard Detail Sh. No BD-104-64

DESIGN - Spiller TRACE - P. H. Barnes CHECK - CDH	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION NEW MEADOWS ROAD BRIDGE OVER ROUTE US-1 IN THE TOWN OF WEST BATH SAGadahoc COUNTY SHEAR CONNECTORS & DRAINS	
SHEET 9 OF 12 AUGUSTA, MAINE FEB. 1964	

M-2387





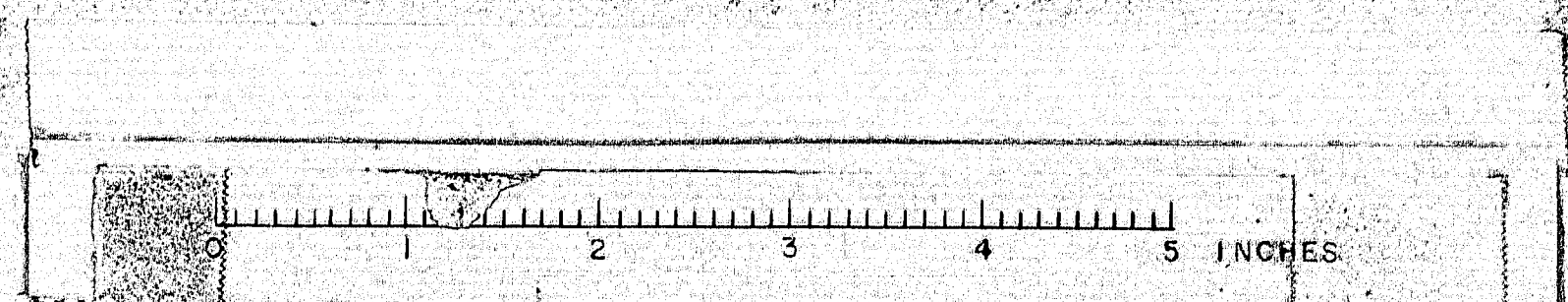
DESIGN - Shaffer
TRACE - F.H. Barnes
CHECK - CDH

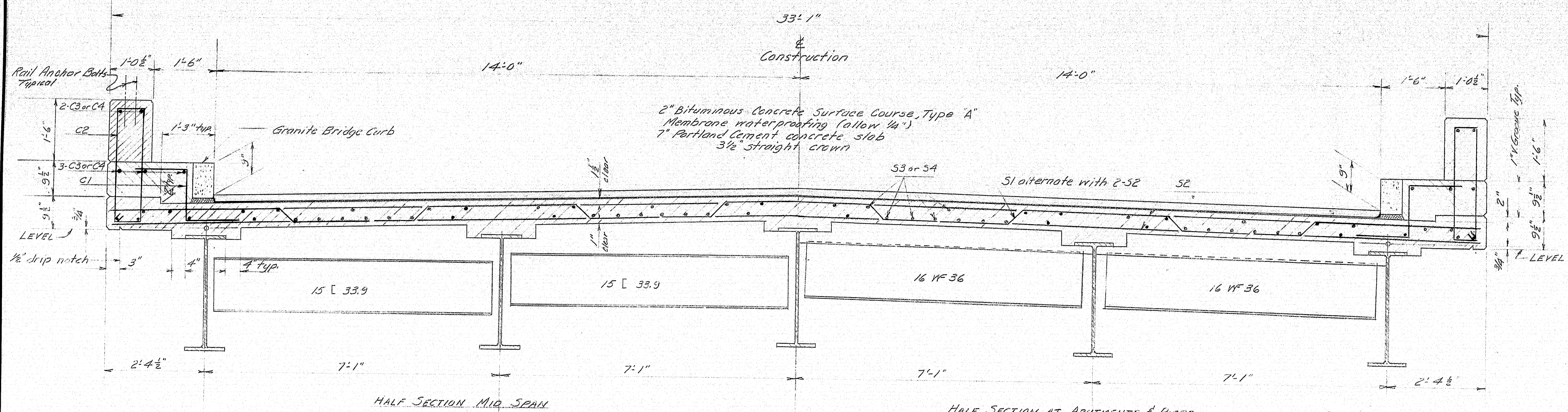
BRIDGE NO.
SURVEY
PLOT

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
NEW MEADOWS ROAD BRIDGE
OVER
ROUTE US-1
IN THE TOWN OF
WEST BATH
SAGadahoc COUNTY
SUPERSTRUCTURE

SHEET 10 OF 12 AUGUSTA, MAINE FEB. 1964

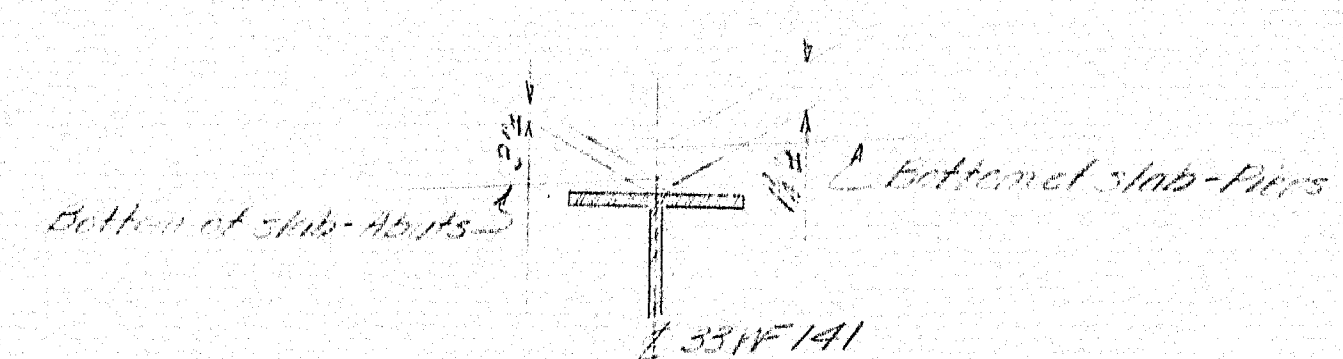
M-2388



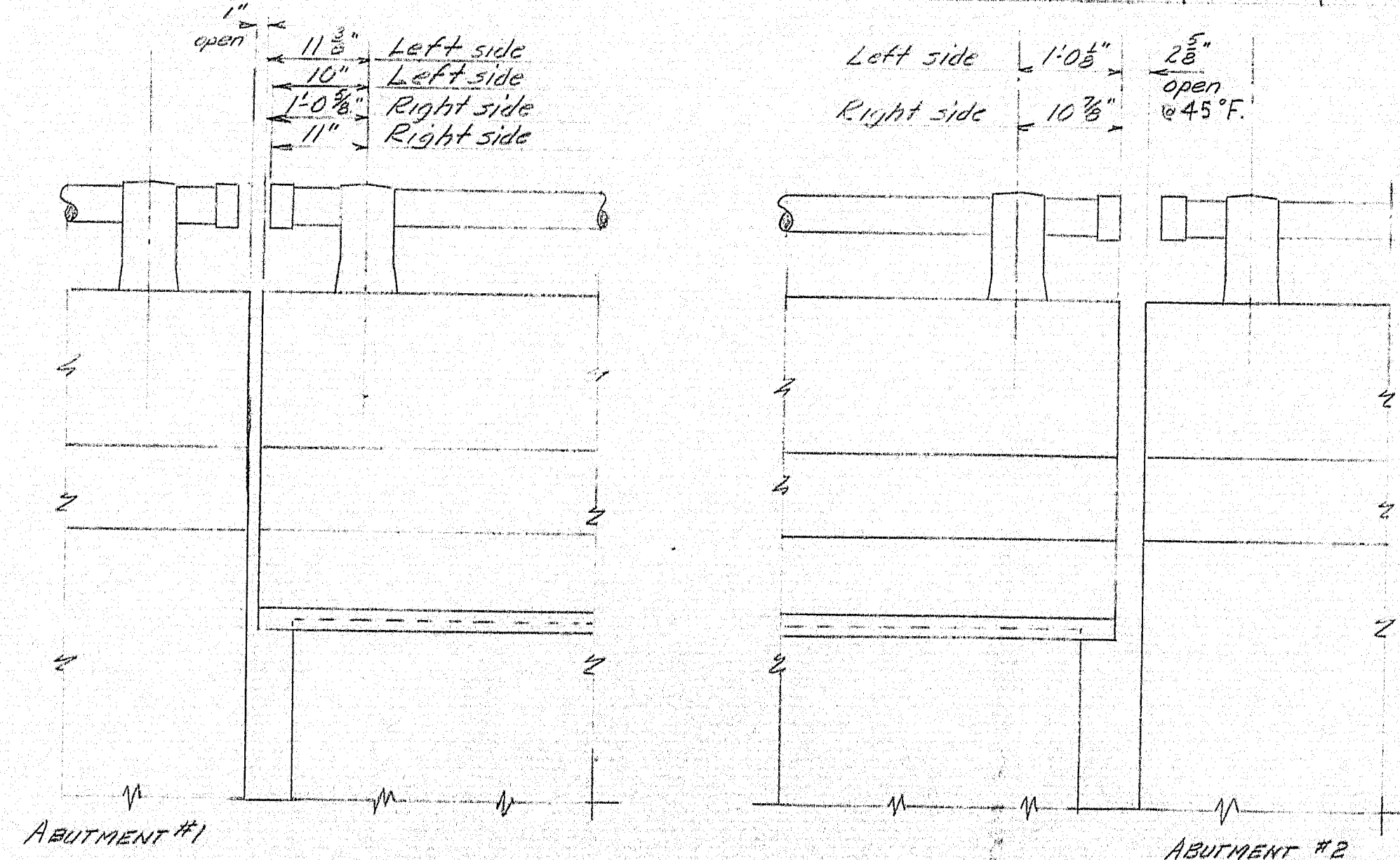


TRANSVERSE SECTION

BOTTOM OF SLAB ELEVATIONS																	
SPAN 1										SPAN 2				SPAN 3			
Location	Abutment	17'-0"	34'-0"	49'-0"	66'-0"	Abutment	Abutment	17'-6"	35'-0"	52'-6"	Abutment	Abutment	17'-0"	34'-0"	49'-0"	66'-0"	Abutment
Line A	51.63	51.51	52.22	52.34	52.40	52.41	52.41	52.44	52.47	52.47	52.47	52.47	52.49	52.46	52.36	52.16	51.39
Line B	51.77	52.11	52.36	52.49	52.54	52.55	52.55	52.59	52.62	52.62	52.62	52.62	52.64	52.62	52.52	52.31	52.04
Line C	51.91	52.25	52.50	52.63	52.68	52.70	52.70	52.73	52.76	52.77	52.77	52.77	52.79	52.77	52.67	52.46	52.19
Line D	51.75	52.09	52.35	52.47	52.53	52.54	52.54	52.58	52.62	52.62	52.62	52.62	52.64	52.63	52.53	52.32	52.05
Line E	51.59	51.34	52.19	52.32	52.38	52.39	52.39	52.43	52.47	52.47	52.47	52.48	52.50	52.48	52.39	52.18	51.31



Blocking Detail at E of Bearings
Note: Blocking at piers from top flange of 54" not cover 12. Not to be used in setting forms.



For additional details - see Standard Detail Sd. # BD-102-64

Granite curb to be set in under Item No. 101-24, Part I, Bridge Curb - Type I, or Item 901-25, Part B, Curb, Circular - Type I. Granite Curb to be cut on a skew at abutment joint, and construction joint at piers.

Granite to be spaced between curb construction joint. Break bond at curb & rail parapet construction joints with a suitable grade of bituminous paint.

Concrete will be placed on Span 2 first. Spans 1 & 3 to be placed simultaneously or if Span 1 is placed second there will be a seven day waiting period before concrete will be placed on Span 3.

Retain & fill elevations, which are computed to compensate for dead load deflections, must be established before slab forms are started. Their connections will be welded on bracing prior to taking blocking elevations.

No load or work will be permitted on the surface of the bridge following the final placement of concrete, however, a load of 100 lbs. per sq. ft. may be applied in weather conditions and the bridge may be opened to traffic or other material may be stored on the bridge within seven days period.

At construction joints over E of Piers insert 1/2" pretensioned expansion joint filler in joint between granite curb, concrete curb and rail parapet. (Detail A) Chamfer exposed edges 1/4".

Locate 1" x 1/2" plastic face drains at low points in slab. Extend tube at least 2 inches below concrete. Dress discharge clear of struct steel. After Membrane Waterproofing is applied, clear drain of asphalt and tarring.

Mortar

Anchor - #4 bar 16" long. Grout into granite.

GRANITE CURB - ANCHOR DETAIL typical

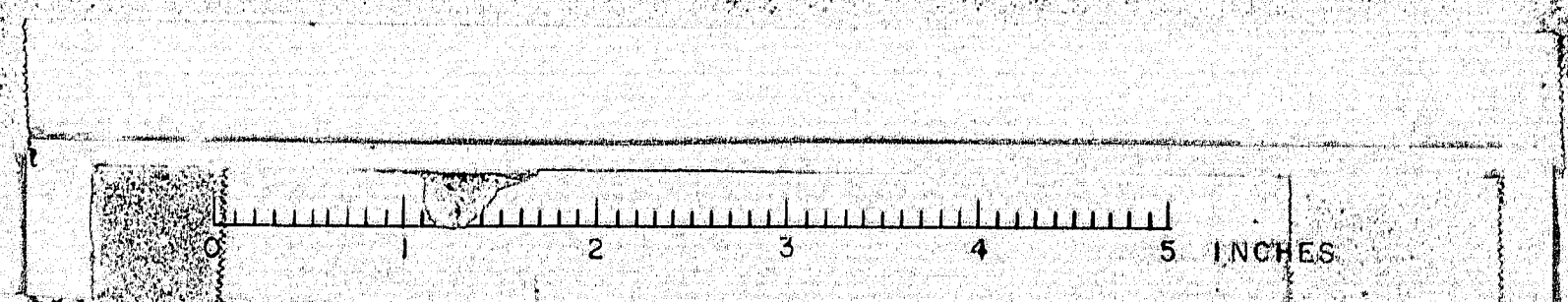
DESIGN - Shaffer	BRIDGE NO. SURVEY -
TRACE - M. Barnes	PLOT -
CHECK - G.D.H.	

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

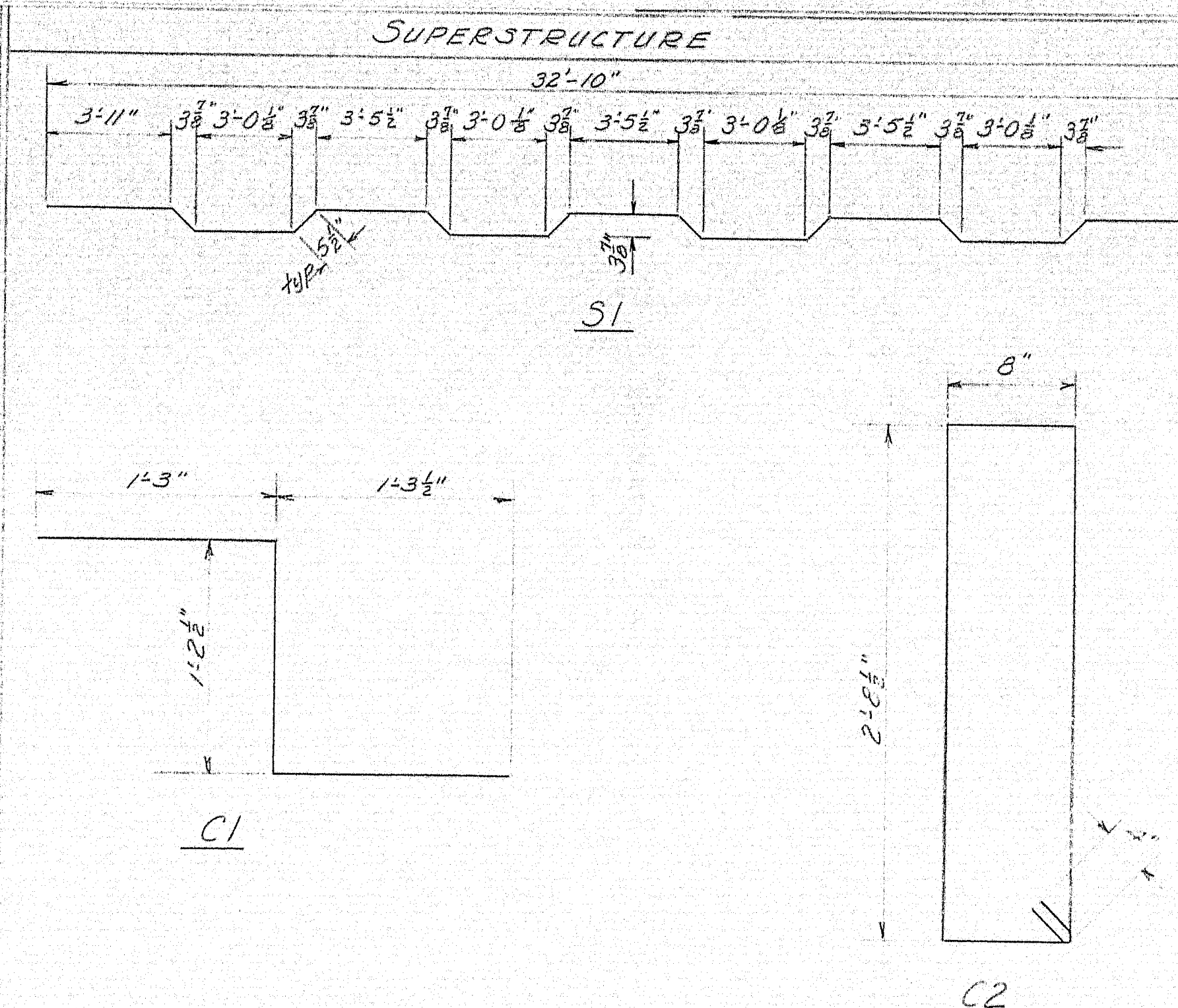
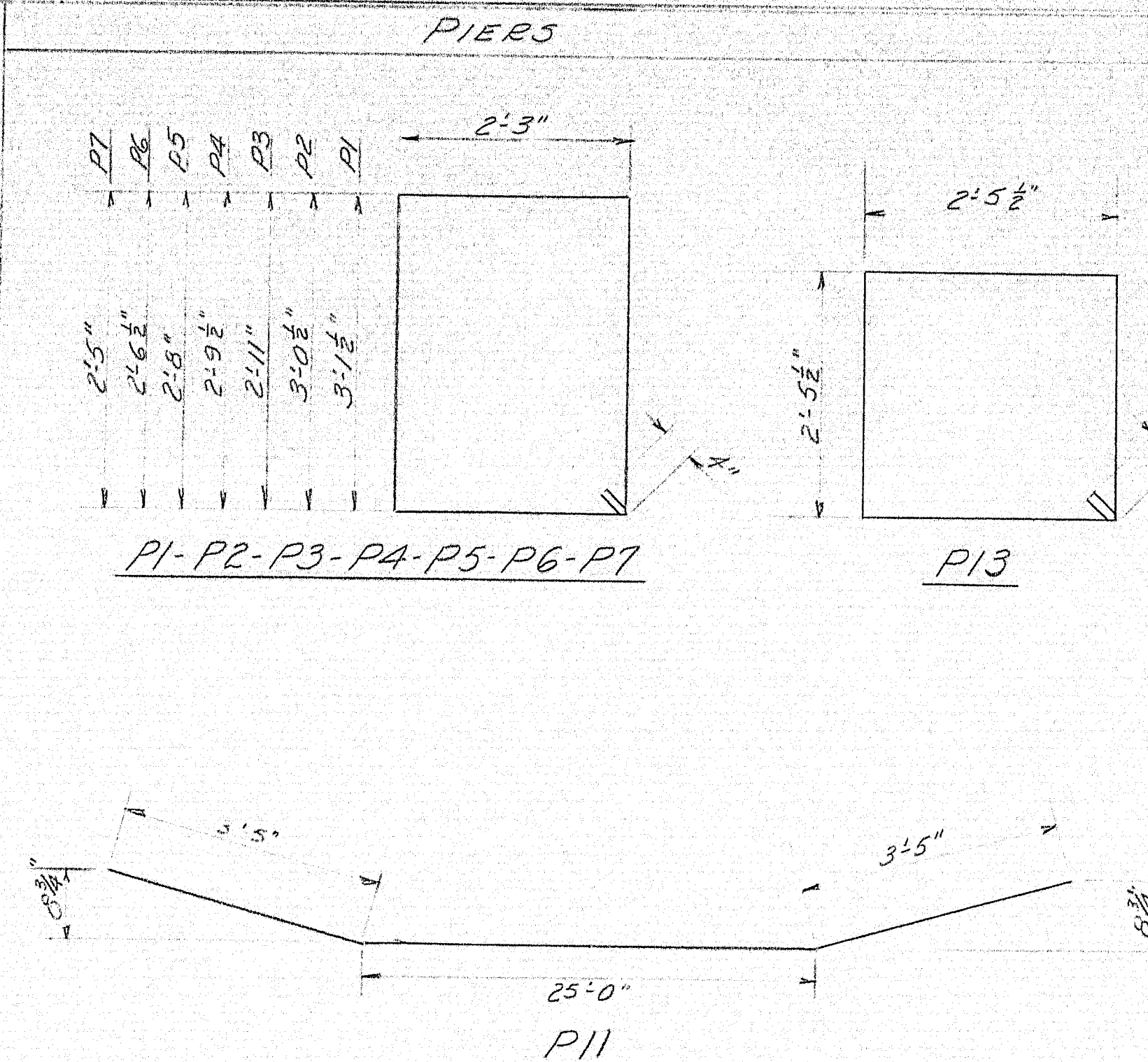
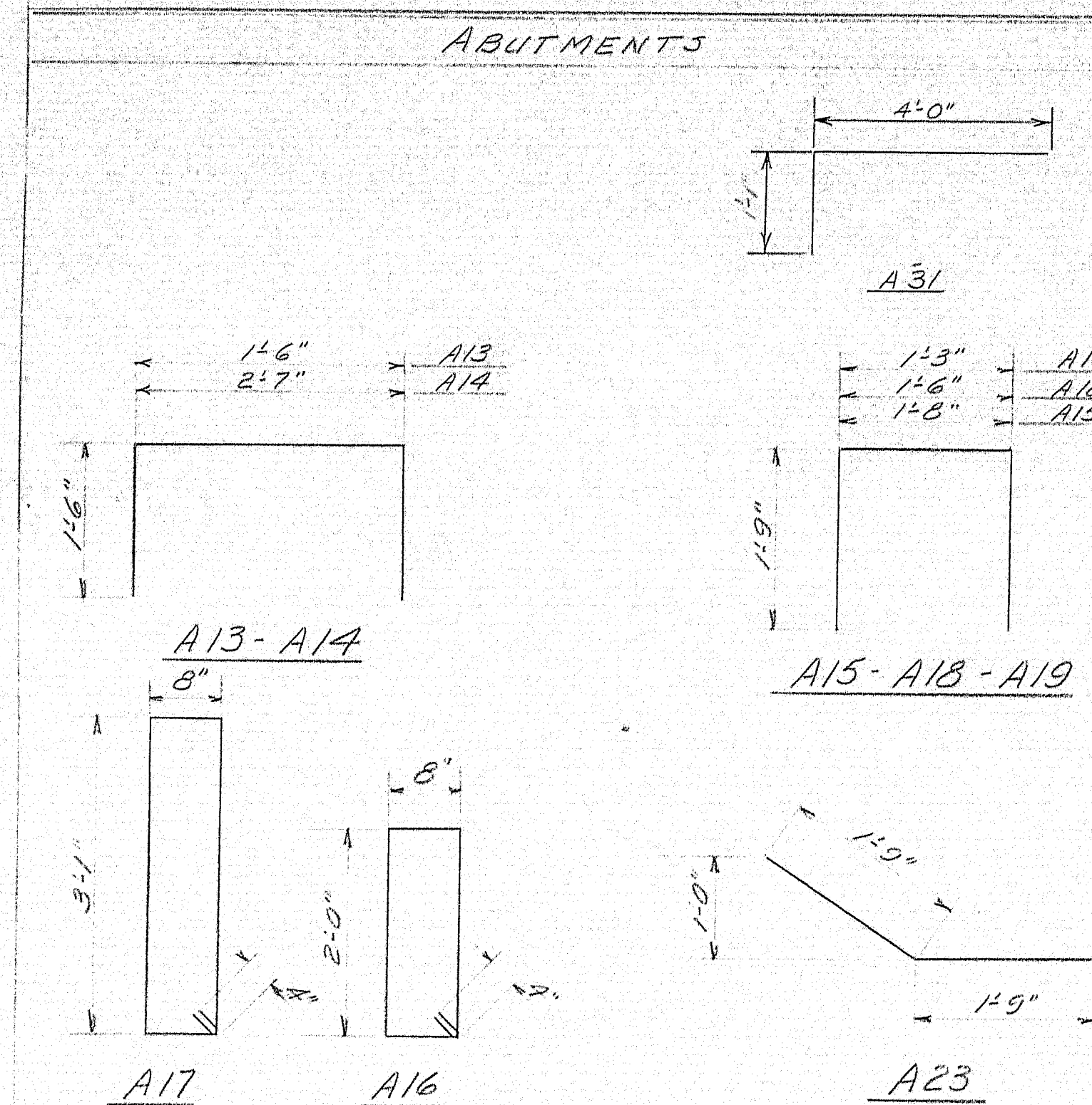
NEW MEADOWS ROAD BRIDGE
OVER
ROUTE US-1
IN THE TOWN OF
WEST BATH
SAGadahoc COUNTY
SUPERSTRUCTURE DETAILS

SHEET 11 OF 12 AUGUSTA, MAINE FEB. 1964

M-2389



REINFORCING STEEL SCHEDULE



BENT BARS				
MARK	SIZE	LENGTH	No. Pcs	LOCATION
A13	#4	1'6"	20	Bridge seat pedestals
A14	#4	5'7"	20	Bridge seat pedestals
A15	#4	5'2"	48	Curbs
A16	#4	6'0"	18	End parapets
A17	#4	8'2"	12	End posts
A18	#4	5'0"	4	Curbs
A19	#4	4'3"	4	Curbs
A23	#6	3'6"	38	Approach slab corners
A24	#5	5'1"	26	Approach slab corners (Exact number to be determined in field)
STRAIGHT BARS				
A1	#5	3'7"	13	Bridge seat (Exact No. to be determined in field)
A2	#5	5'2"	4	"
A3	#5	1'1"	44	Wings
A4	#5	3'0"	12	Bridge seat, Bridge seat
A5	#5	7'5"	22	Bridge seat, Abut #1 only
A6	#5	4'3"	32	Back wall
A7	#4	15'5"	8	Curbs
A8	#4	17'6"	12	Back wall
A9	#4	16'3"	2	"
A10	#5	7'6"	44	Wings, Abut #2
A11	#5	3'0"	76	Wings, Abut #2
A12	#5	15'6"	26	Wings, Abut #2
A13	#5	8'10"	50	Wings, Abut #1 only
A14	#5	21'3"	30	"
A15	#5	5'7"	22	Bridge Seat, Abut #2
A16	#4	1'8"	20	Curbs - abutments
A17	#4	21'3"	8	" - wings
A18	#4	2'8"	8	End Posts
A19	#5	4'6"	47	Wings & Bridge Seat
A20	#5	7'6"	15	Wing, Abut #2 only
A21	#4	14'5"	4	Curbs Abut #2
A22	#5	10'6"	2	Corner wing
A23	#4	20'0"	2	Curbs, Abut #1
A24	#5	12'6"	2	Corner wing

BENT BARS				
MARK	SIZE	LENGTH	No. Pcs	LOCATION
P1	#5	11'5"	72	Pier Caps
P2	#5	11'3"	8	"
P3	#5	11'0"	8	"
P4	#5	10'9"	8	"
P5	#5	10'6"	8	"
P6	#5	10'3"	8	"
P7	#5	10'0"	8	"
P11	#9	51'10"	12	"
P13	#4	10'6"	96	Pier Columns
STRAIGHT BARS				
P8	#9	31'8"	12	Pier Caps
P9	#10	3'0"	8	" " each end
P10	#6	31'8"	8	"
P12	#9	18'5"	72	Pier Columns
P14	#9	4'0"	72	Pier Footings - details

BENT BARS				
MARK	SIZE	LENGTH	No. Pcs	LOCATION
S1	#5	34'0"	659	Slab - transverse
C1	#4	3'9"	364	Curbs
C2	#4	1'5"	364	Curbs & Rail Parapets
STRAIGHT BARS				
S2	#5	32'10"	516	Slab - transverse
S3	#5	20'8"	372	Slab - longitudinal
S4	#5	35'5"	124	"
C3	#4	16'6"	90	Curbs & Rail Parapets
C4	#4	17'2"	40	"
C5	#4	16'2"	10	"

APPROACH SLABS				
MARK	SIZE	LENGTH	No. Pcs	LOCATION
A51	#6	14'6"	110	Longitudinal
A52	#4	27'3"	20	Transverse

NOTE - Dimensions to c/c of bars

DETAIL - 54 BARS
CDH

Detail - 54 BARS
CDH

DESIGN - <i>Shaffer</i> CHECK - <i>CDH</i>	BRIDGE NO. SURVEY - PLOT -
STATE HIGHWAY COMMISSION BRIDGE DIVISION NEW MEADOWS ROAD BRIDGE OVER ROUTE US 1 IN THE TOWN OF WEST BATH SAGadahoc COUNTY REINFORCING STEEL SCHEDULE	
SHEET 12 OF 12 AUGUSTA, MAINE FEB. 1964	

M-2390

