

SHOP CONNECTIONS: WELD
FIELD CONNECTIONS: 3/4" H.S. BOLTS
HOLES: 1/8" UNLESS NOTED
PAINT: STATE SPECS.

APPROVED 9-22-64
APR. AS. NOTED 8-12-64

| FRAMING PLAN | |
|--------------|---------------|
| PRINT ISSUE | |
| 5 | DIST. 10-1-64 |
| 2 | SHOP 10-1-64 |
| 2 | F.A. 9-15-64 |
| 2 | F.A. 8-11-64 |
| DRAWN | 7-19-64 E.M. |
| REVISION | 9-14-64 E.M. |
| REVISION | |
| REVISION | |

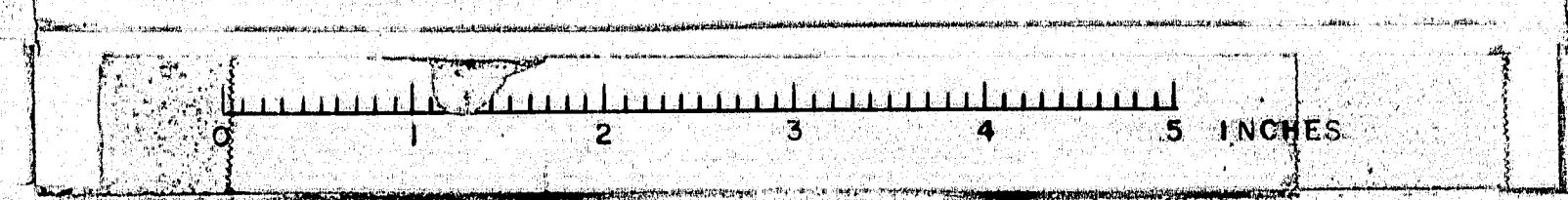
Branch & Martin Pottery Mills Company
Brewer, Maine

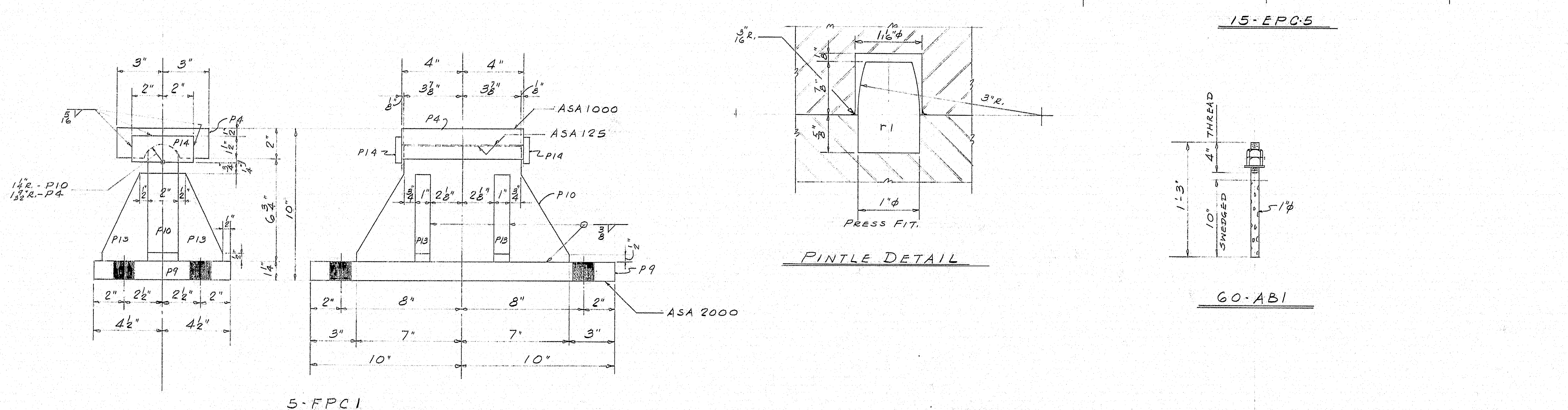
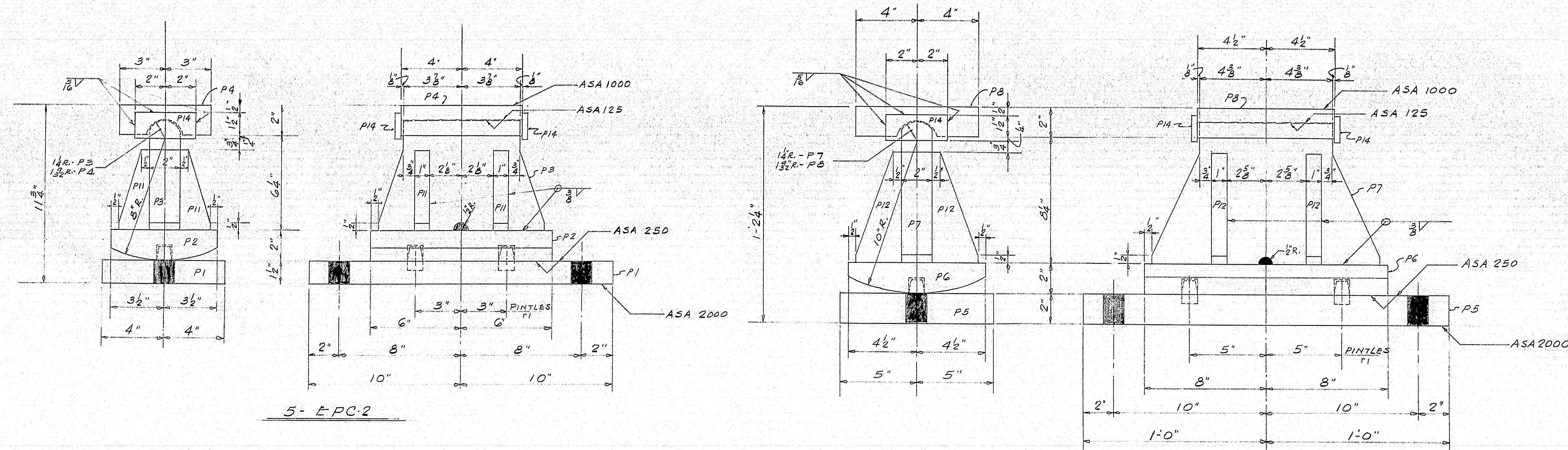
STILLWATER AVENUE BRIDGE
ORONO MAINE

CUSTOMER REED & REED
DESIGNER MAINE STATE HIGHWAY COMM.

ORDER VERBAL DWG. B64-190-E1

95-34





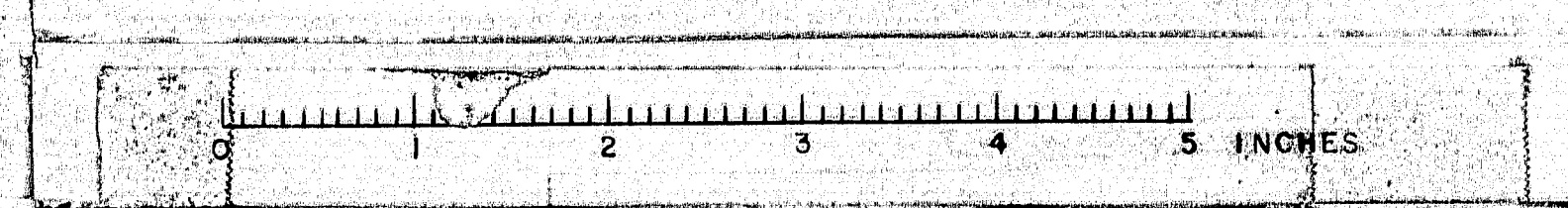
| SHIP | | BILL OF MATERIAL | | | DWG. B64-190-S1 | |
|-------|-----|------------------|-----------------|--------|-----------------|----------------|
| MARK | NO. | MARK | SHAPE | LENGTH | WT. | REMARKS |
| EPC-2 | 5 | | BRG. PED. | | | |
| EPC-5 | 15 | | DO | | | |
| FPC-1 | 5 | | DO | | | |
| | 5 | P1 | R 3x1 1/2 | 1 | 8 | |
| | 5 | P2 | R 7x2 | 1 | 0 | |
| | 5 | P3 | R 7 1/2 x 2 | 0 | 11 | |
| | 10 | P4 | R 6 x 2 | 0 | 8 | |
| | 15 | P5 | R 10 x 2 | 2 | 0 | |
| | 15 | P6 | R 9 x 2 | 1 | 4 | |
| | 15 | P7 | R 9 1/2 x 2 | 1 | 3 | |
| | 15 | P8 | R 8 x 2 | 0 | 9 | |
| | 5 | P9 | R 9 x 1 1/4 | 1 | 8 | |
| | 5 | P10 | R 7 1/2 x 2 | 1 | 2 | |
| | 20 | P11 | R 2 x 1 | 0 | 5 1/2 | |
| | 60 | P12 | R 3 x 1 | 0 | 7 1/2 | |
| | 20 | P13 | DO | 0 | 5 1/2 | |
| | 50 | P14 | BAR 1 1/2 x 3/8 | 0 | 4 | |
| P15 | 5 | | 8 x 6 | 1 | 8 | FABCO PADS |
| P16 | 15 | | 10 x 6 | 2 | 0 | DO |
| P17 | 5 | | 9 x 6 | 1 | 8 | DO |
| AB1 | 60 | | 1" ROD | 1 | 3 | SWEDGE ANCHORS |
| | 120 | | 1" HEX. NUTS | | | |
| | 60 | | 1" WASHERS | | | |
| | 40 | P1 | 1" ROD | 0 | 1 1/2 | PINTLES |

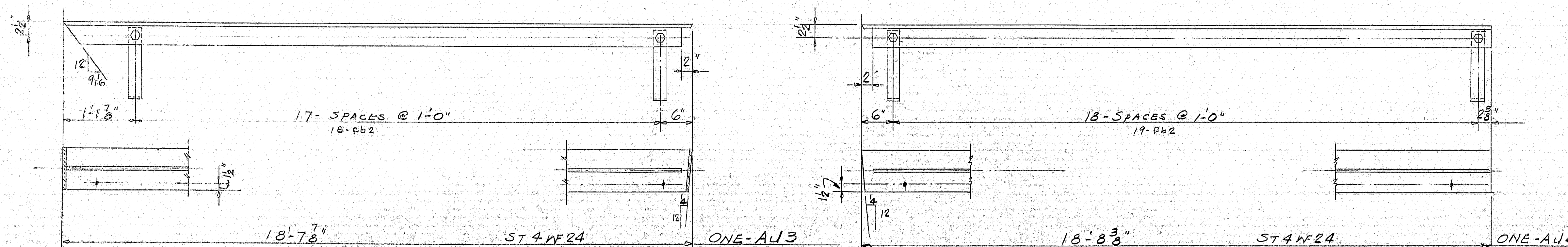
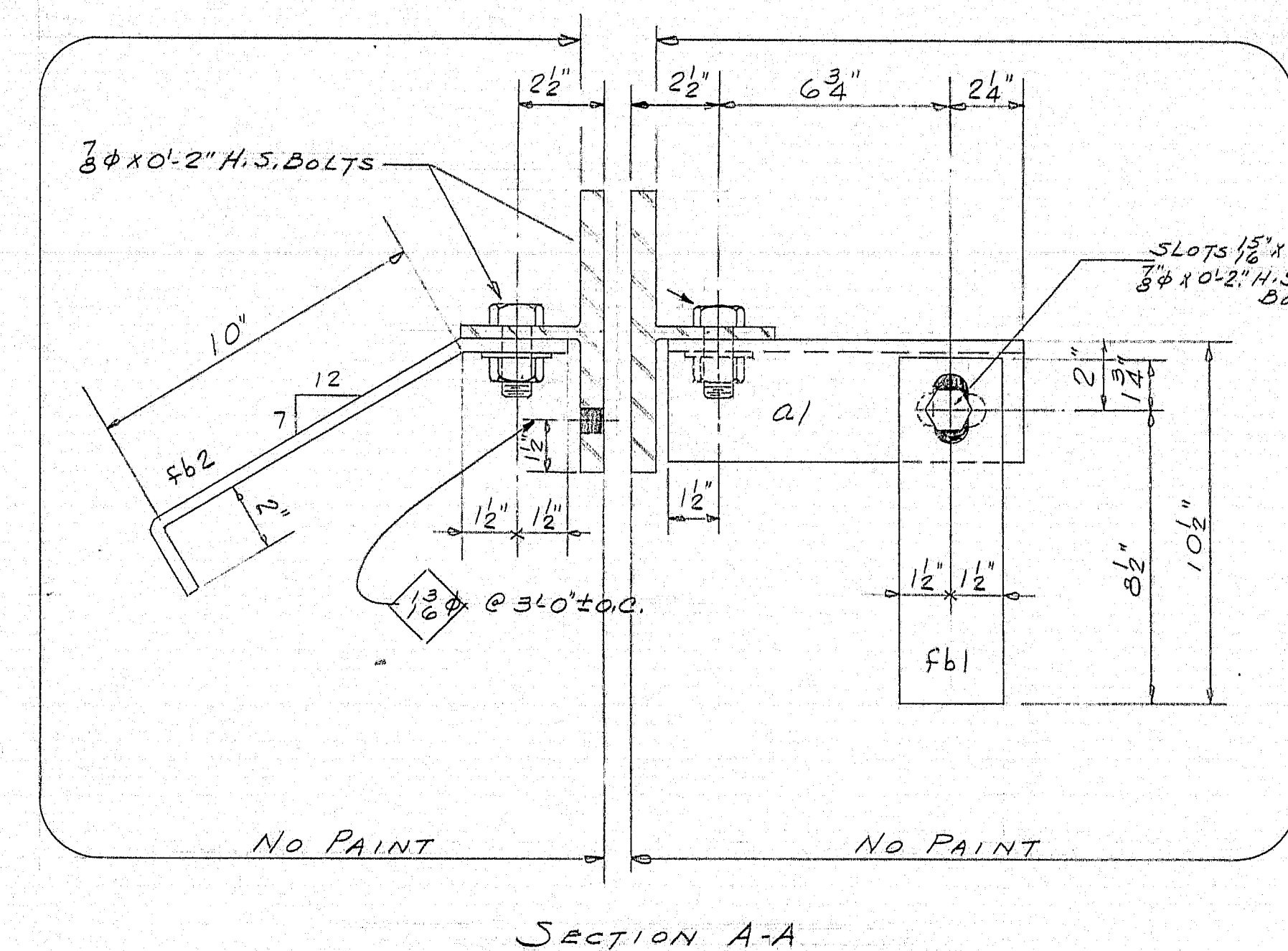
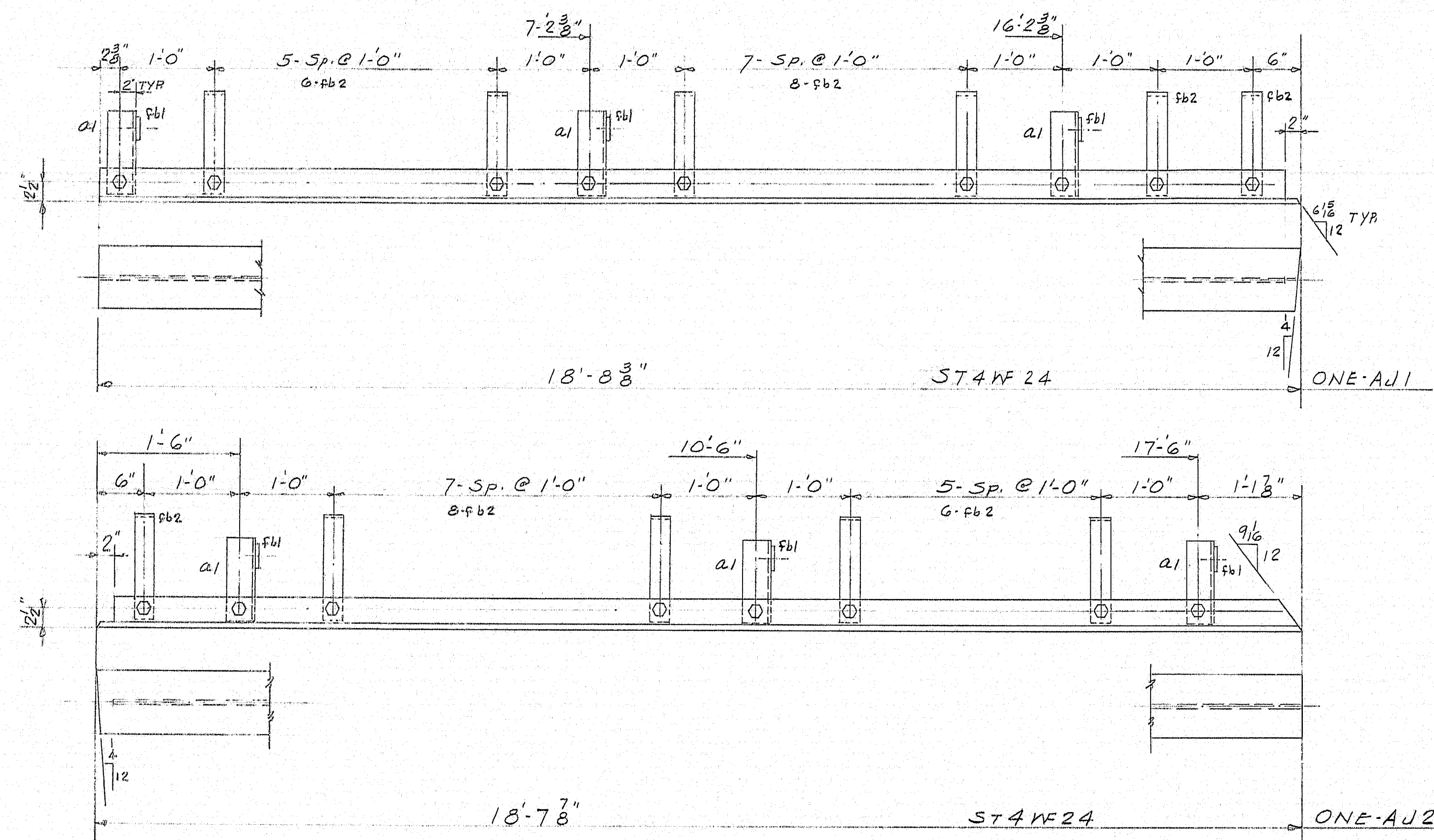
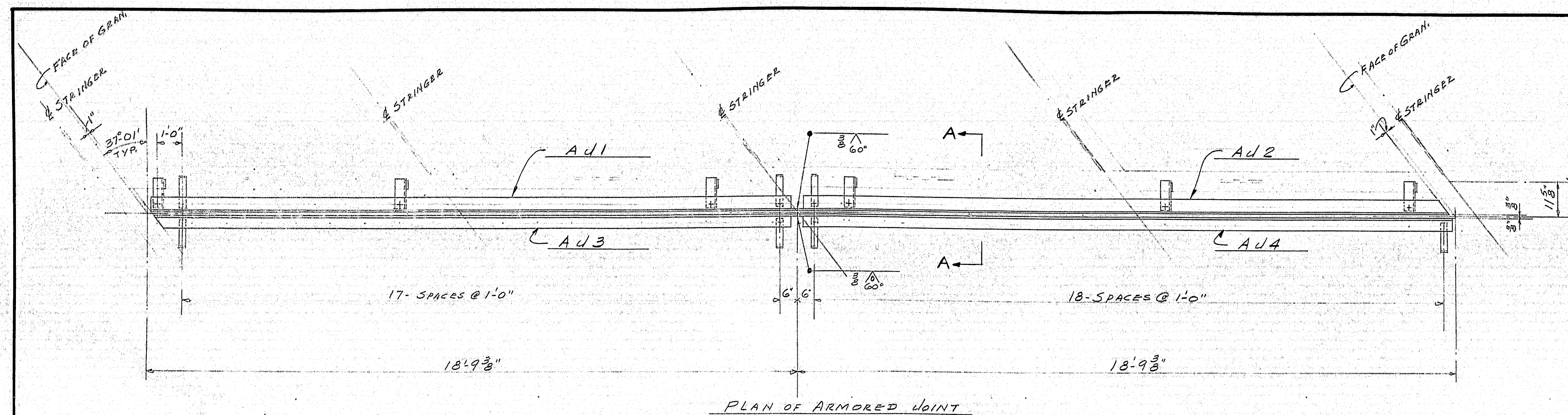
SHOP CONNECTIONS: WELD
FIELD CONNECTIONS: DO
HOLES: 1 3/8" φ
PAINT: STATE SPEC.

APP. AS NOTED 8-12-64

BEARING PEDESTALS AND ANCHOR BOLTS

| | | | |
|--------------|---------|---|--|
| PRINT ISSUE: | | Bancroft & Martin Inc. Brewer, Maine | |
| 5 | DIST | 10-1-64 | |
| 4 | PORT | 8-25-64 | |
| 2 | FA. | 8-11-64 | |
| DRAWN | 7-21-64 | E.M. | |
| REVISION | 8-25-64 | E.M. | |
| REVISION | | | |
| REVISION | | | |
| ORDER VERBAL | | DWG. B64-190-S1 | |



[illegible]

SHOP CONNECTIONS: 3/4" H.S. BOLTS
FIELD CONNECTIONS: WELD
HOLES: 1 1/2" UNLESS NOTED
PAINT: STATE SPECS.

APPROVED 8-12-64

ARMORED JOINTS

PRINT ISSUE

Bancroft & Martin Inc.
Brewer, Maine

Brewer, Maine

4 STILLWATER AVENUE BRIDGE
ORONO MAINE

ORONO MAINE

CUSTOMER *REED & REED*

DESIGNER STATE HIGHWAY COMMORDER Verbal

DWG. B64-190-52

| | | |
|-----------------|--------|---------|
| 5 | DIST. | 10-1-64 |
| 5 | SHOP | 9-19-64 |
| 2 | F.A. | 8-11-64 |
| DRAWN | 8-2-64 | E.M. |
| REVISION | | |
| REVISION | | |
| REVISION | | |

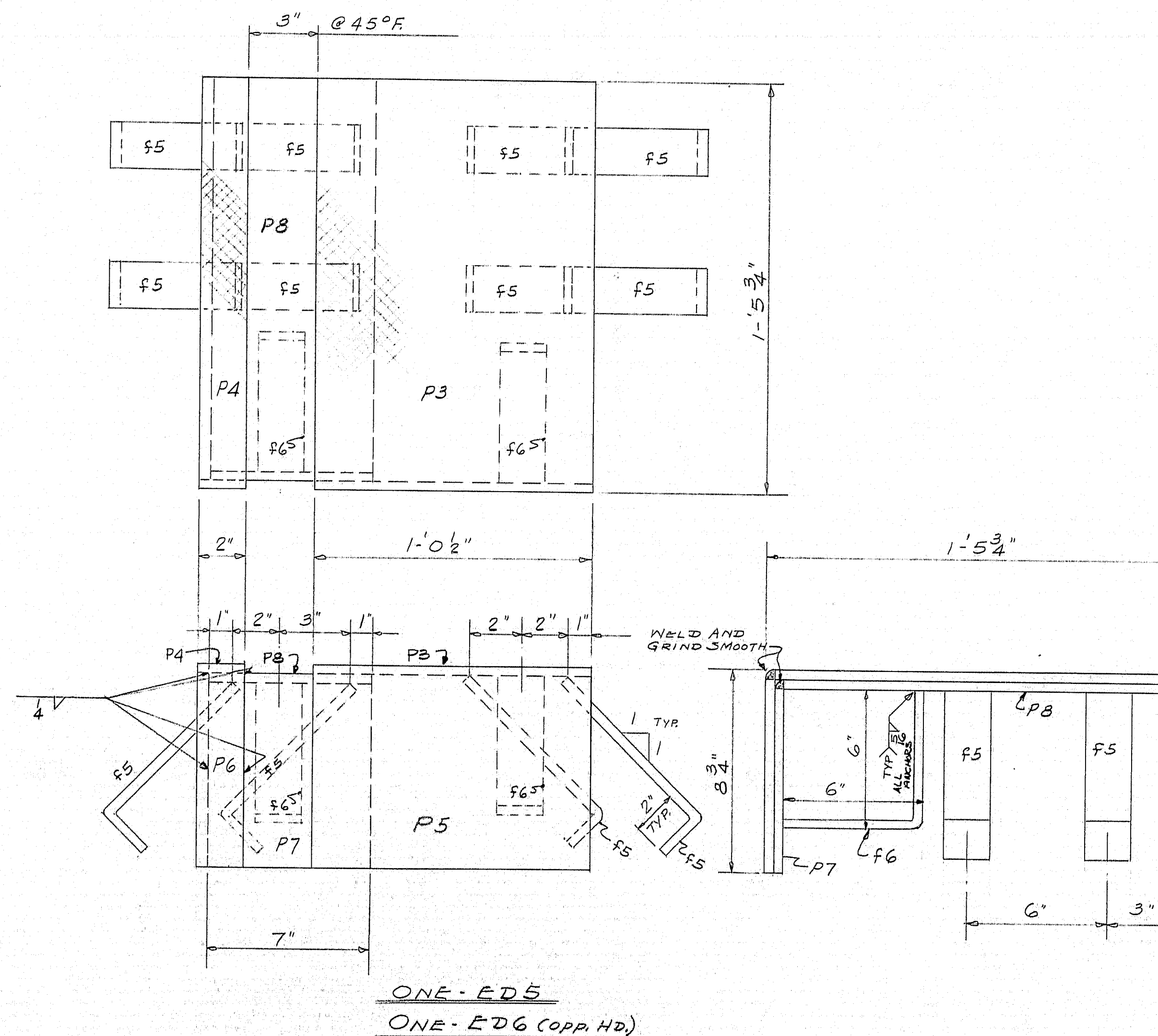
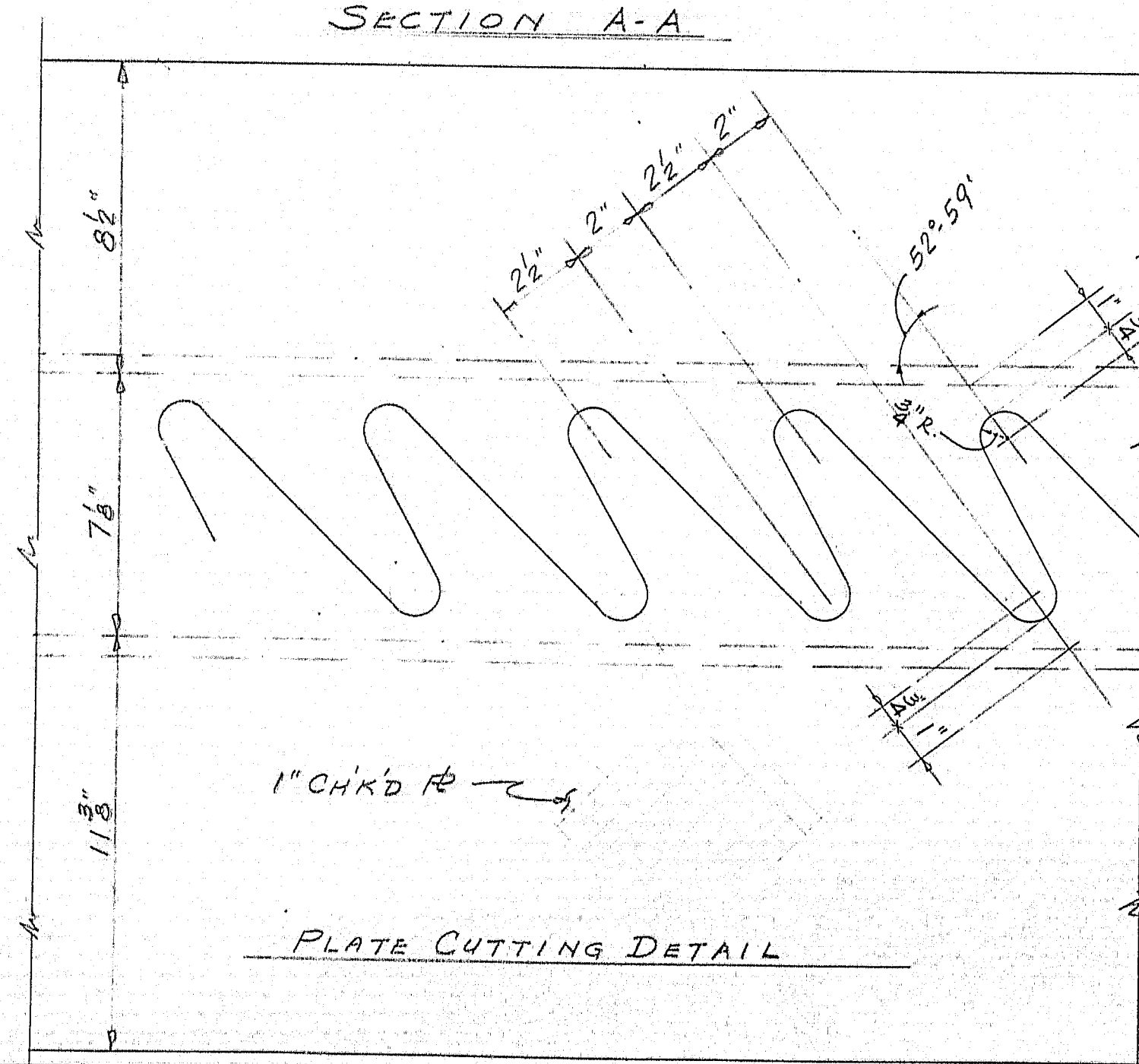
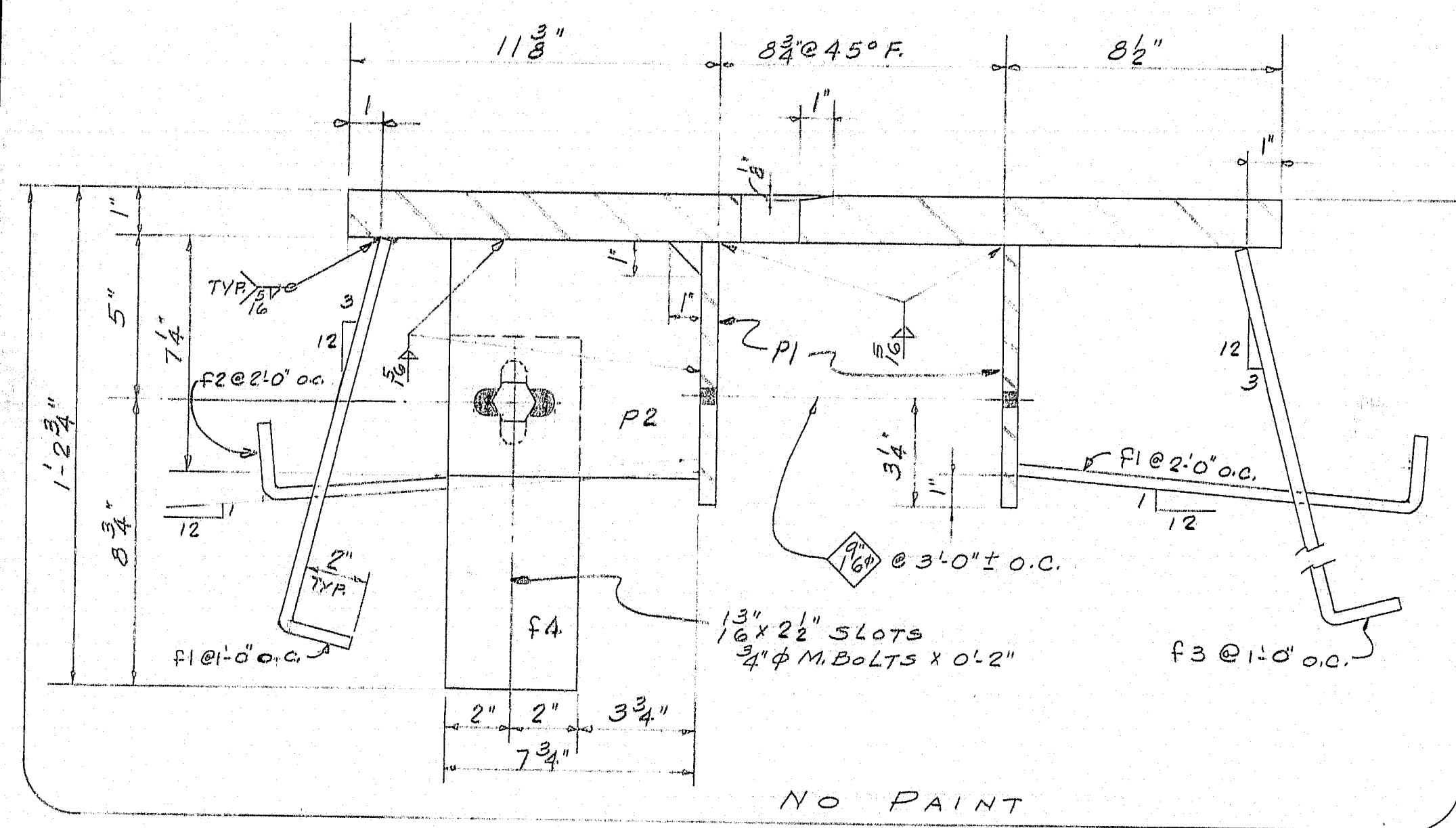
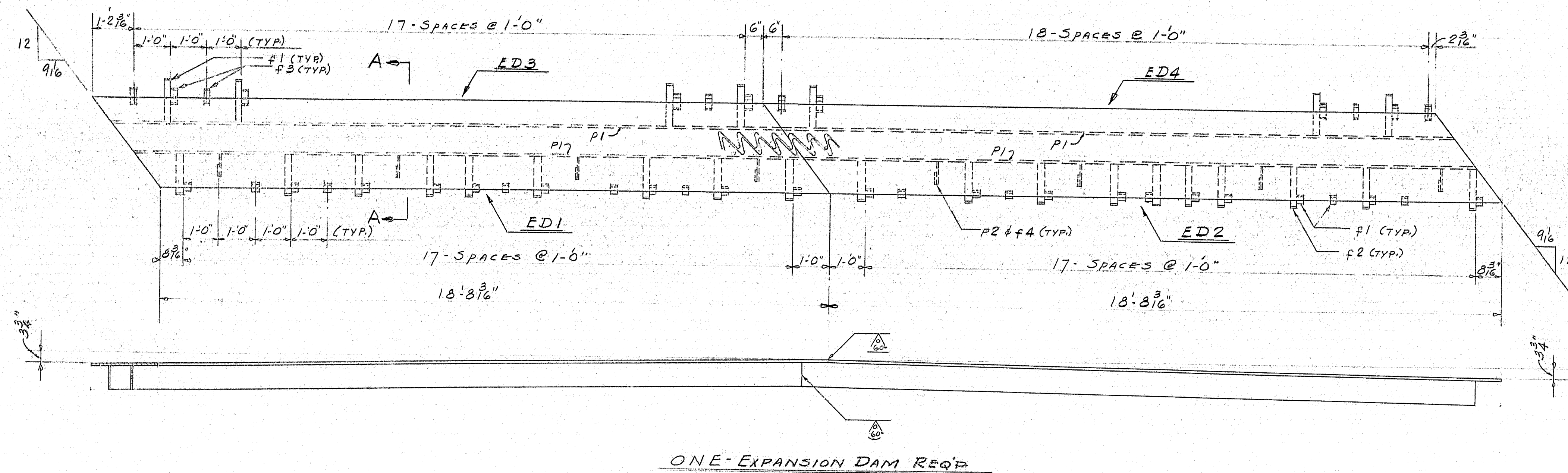
| | | |
|---|------|---------|
| 5 | SHOP | 9-19-64 |
|---|------|---------|

| | | |
|-------|-------|---------|
| 2 | F.A. | 8-11-64 |
| DRAWN | 3-2-1 | F.A. |

| | | |
|----------|--------|----------|
| DRAWN | 5-2-64 | E, M, H. |
| REVISION | | |

| | | |
|----------|--|--|
| REVISION | | |
|----------|--|--|

| | | | |
|--|----------|--|--|
| | REVISION | | |
|--|----------|--|--|

[illegible]

SHOP CONNECTIONS: *WELD UNLESS NOTED*
FIELD CONNECTIONS: *WELD*
HOLES: *AS NOTED*
PAINT: *STATE SPECS.*

APP. AS NOTED 8-13-64

ABUT. #1 ROADWAY & SIDEWALK EXPANSION DAMS.

| | | | |
|-------------|--------------|---|--|
| PRINT ISSUE | | <i>Bancroft & Martin Inc.</i> <i>Brewer, Maine</i> | |
| | | | |
| | | | |
| | | | |
| 5 | D.S.T. | 10-1-64 | STILLWATER AVENUE BRIDGE ORONO MAINE |
| 5 | SHOP | 9-19-64 | |
| 2 | F.A. | 8-11-64 | |
| DRAWN | 8-10-64 E.M. | | CUSTOMER <u>REED & REED</u> |
| REVISION | | | DESIGNER <u>STATE HIGHWAY COMM.</u> |
| REVISION | | | |
| REVISION | | | ORDER <u>VERBAL</u> DWG. <u>664-190-53</u> |

Bancroft & Martin Inc.
Brewer, Maine

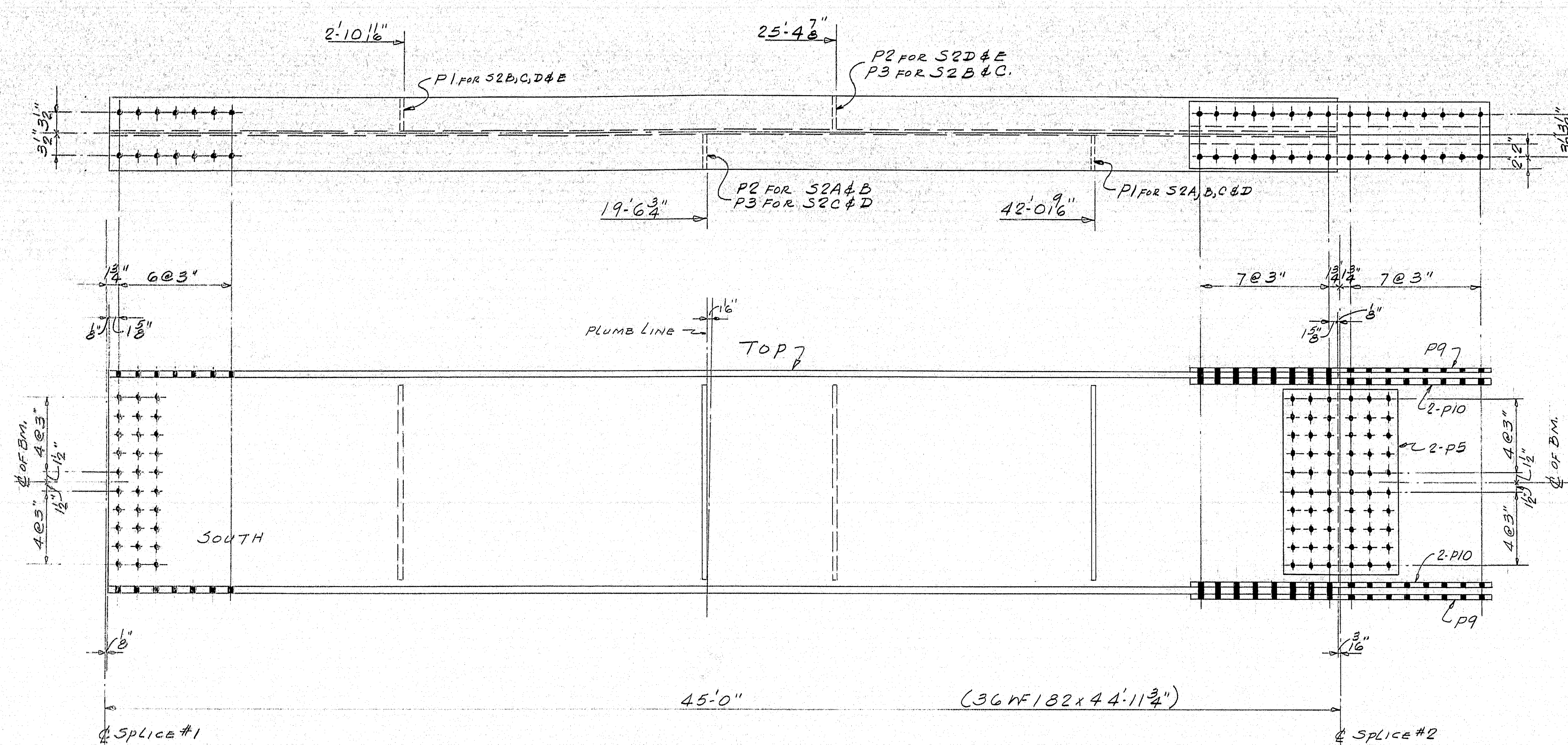
STILLWATER AVENUE BRIDGE
ORONO MAINE

CUSTOMER REED & REED

DESIGNER STATE HIGHWAY COMM.

| | |
|---------------------|------------------------|
| ORDER <u>VERBAL</u> | DWG. <u>B64-190-53</u> |
|---------------------|------------------------|

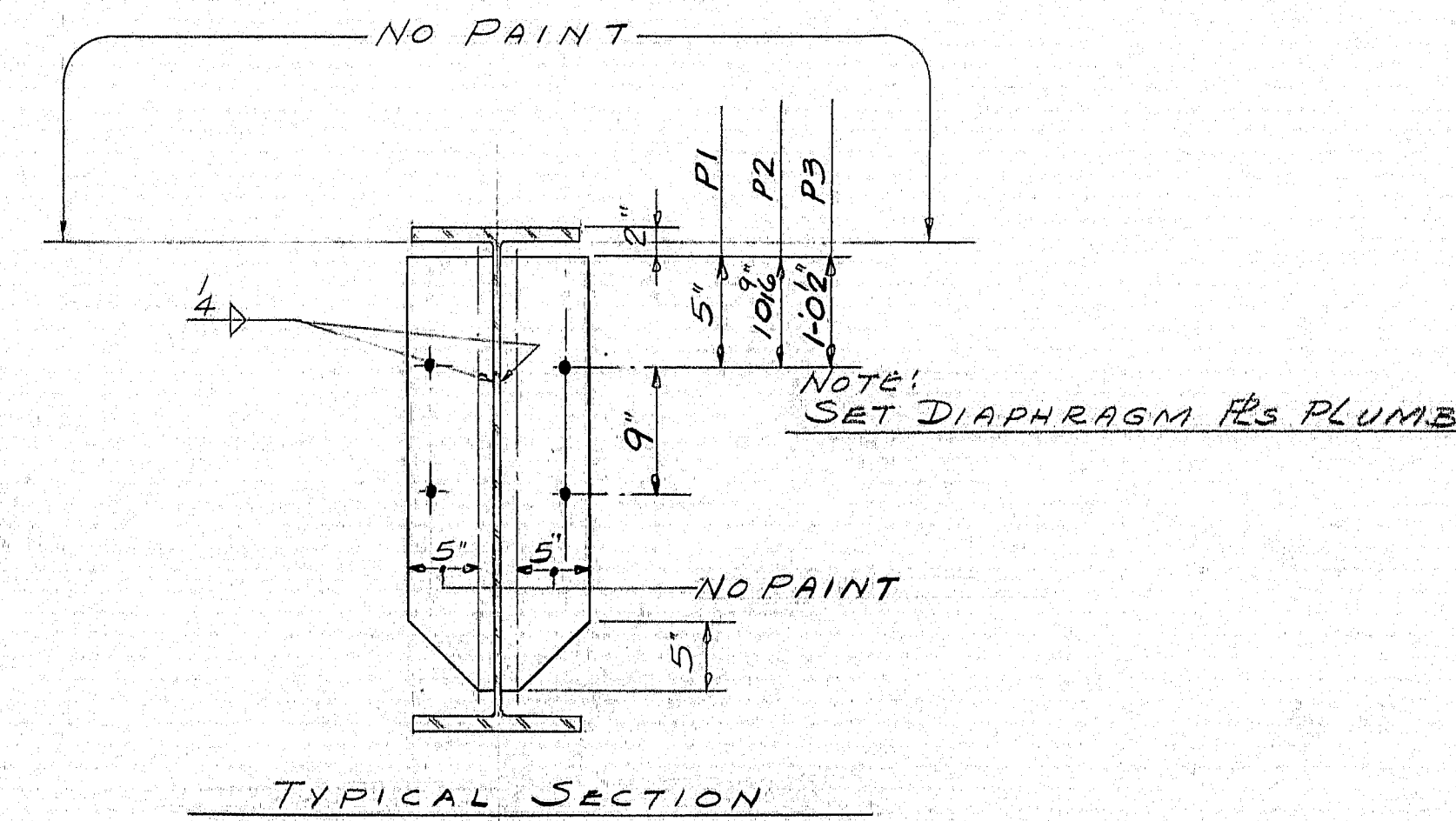
95-30



MATCH THIS END WITH NORTH
END OF STRINGERS S1

- ONE - S2A
- ONE - S2B
- ONE - S2C
- ONE - S2D
- ONE - S2E

MATCH THIS END WITH SOUTH
END OF STRINGERS S3

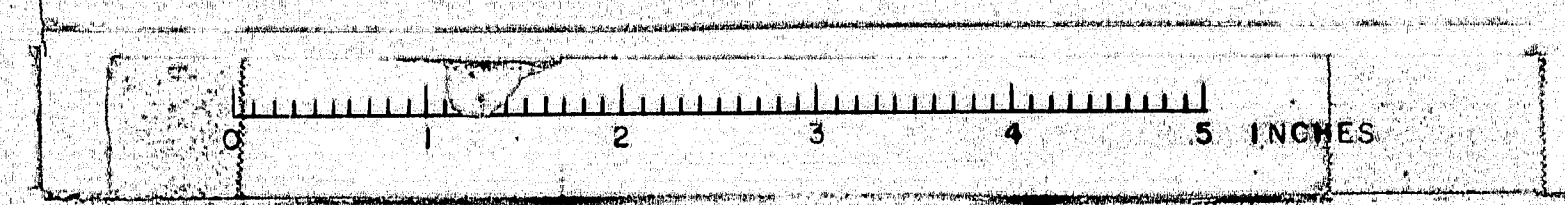


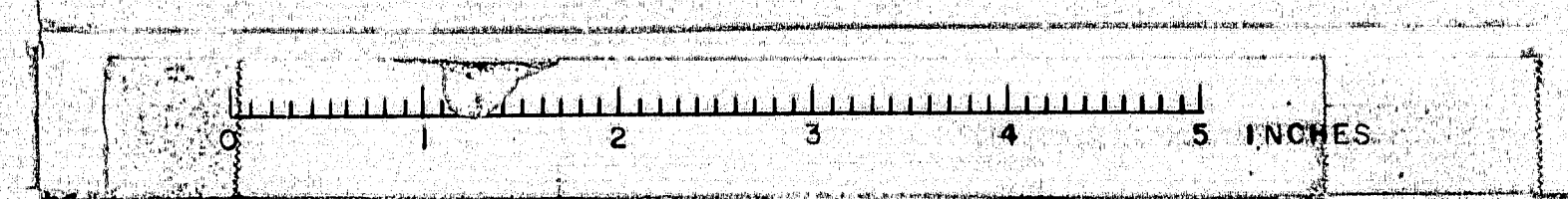
| SHIP | | BILL OF MATERIAL | | | | DWG. 864-190-S5 |
|------|-----|------------------|--------------|-------------|-------|-----------------|
| MARK | NO. | MARK | SHAPE | LENGTH | WT. | REMARKS |
| S2A | 1 | | 36 WF 182 | 44'-11 3/4" | | ASTM A-36 |
| S2B | 1 | | DO | 44'-11 3/4" | | |
| S2C | 1 | | DO | 44'-11 3/4" | | |
| S2D | 1 | | DO | 44'-11 3/4" | | |
| S2E | 1 | | DO | 44'-11 3/4" | | |
| | 10 | P5 | R 18 1/2 x 9 | 2 | 6 | |
| | 10 | P9 | R 11 x 16 | 4 | 0 1/2 | |
| | 20 | P10 | R 4 x 16 | 4 | 0 1/2 | |
| | 8 | P1 | R 6 x 3 | 2 | 7 | |
| | 4 | P2 | DO | 2 | 7 | |
| | 4 | P3 | DO | 2 | 7 | |

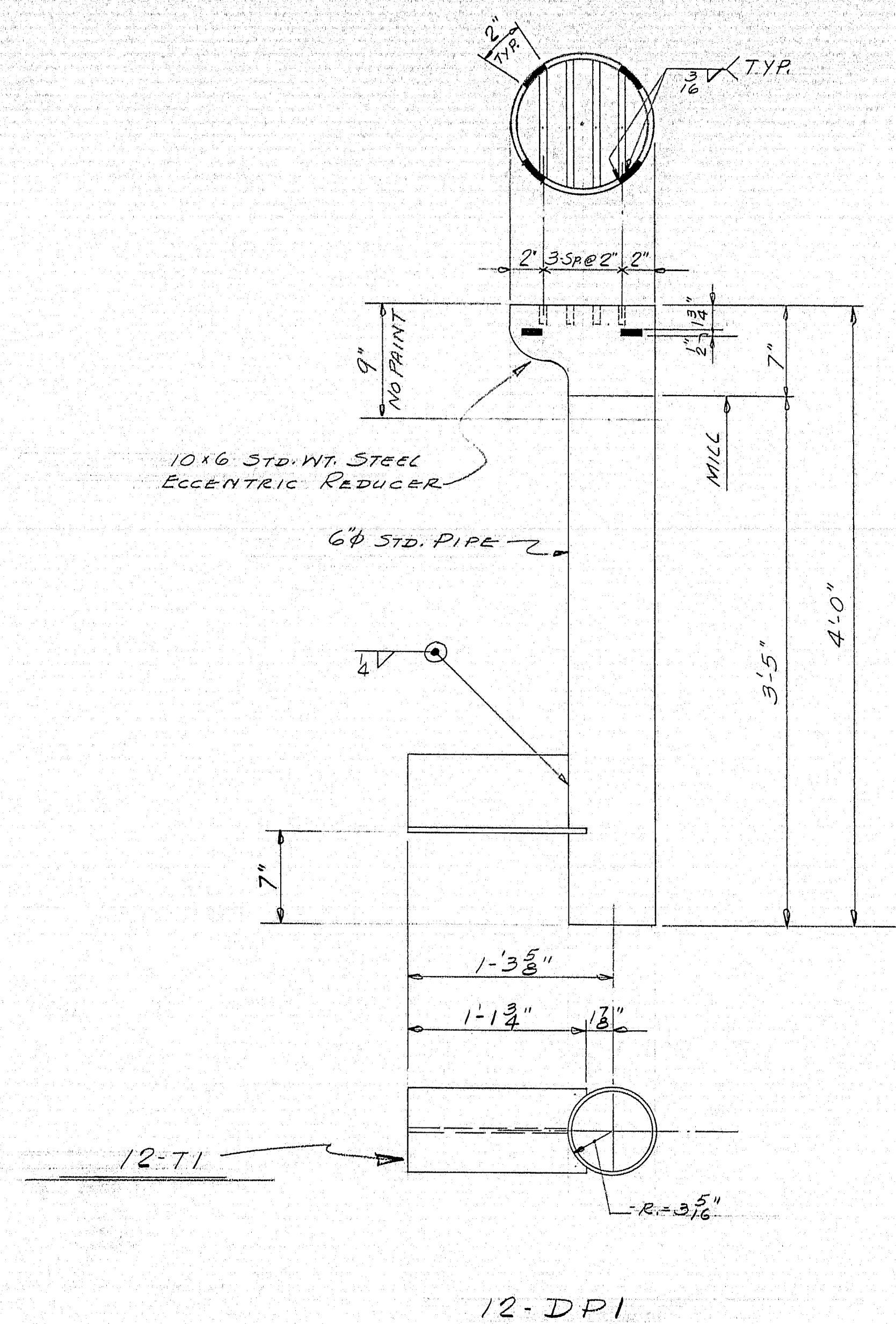
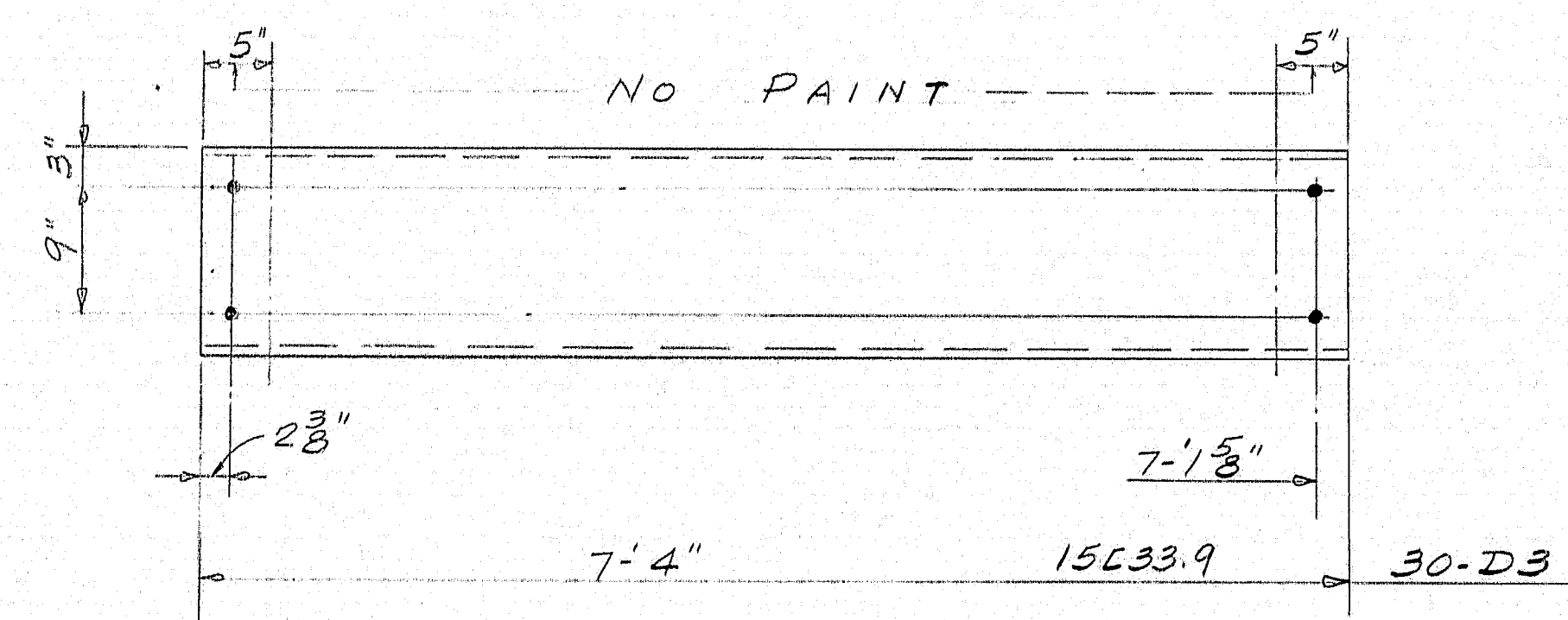
SHOP CONNECTIONS: WELD
FIELD CONNECTIONS: 3/8" H.S. BOLTS
HOLES: 1/8" Ø
PAINT: STATE SPECS.

APP. AS NOTED 9-22-64

| S2 - STRINGERS | | | |
|----------------|--------------|---|--|
| PRINT ISSUE | | Bancroft & Martin Inc. Brewer, Maine | |
| 5 DIST | 10-1-64 | STILLWATER AVENUE BRIDGE ORONO MAINE | |
| 5 SHOP | 10-1-64 | CUSTOMER REED & REED | |
| 2 F.A. | 9-15-64 | DESIGNER STATE HIGHWAY COMM. | |
| DRAWN | 8-31-64 E.M. | ORDER VERBAL | |
| REVISION | 9-24-64 E.M. | DWG. 864-190-S5 | |
| REVISION | | | |
| REVISION | | | |



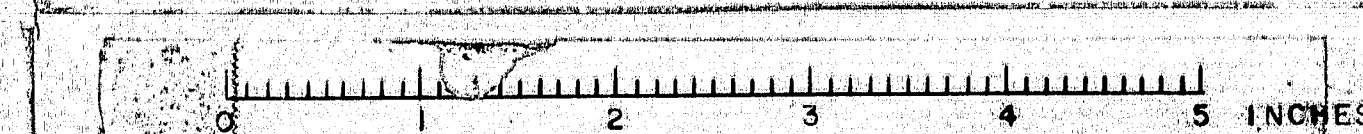


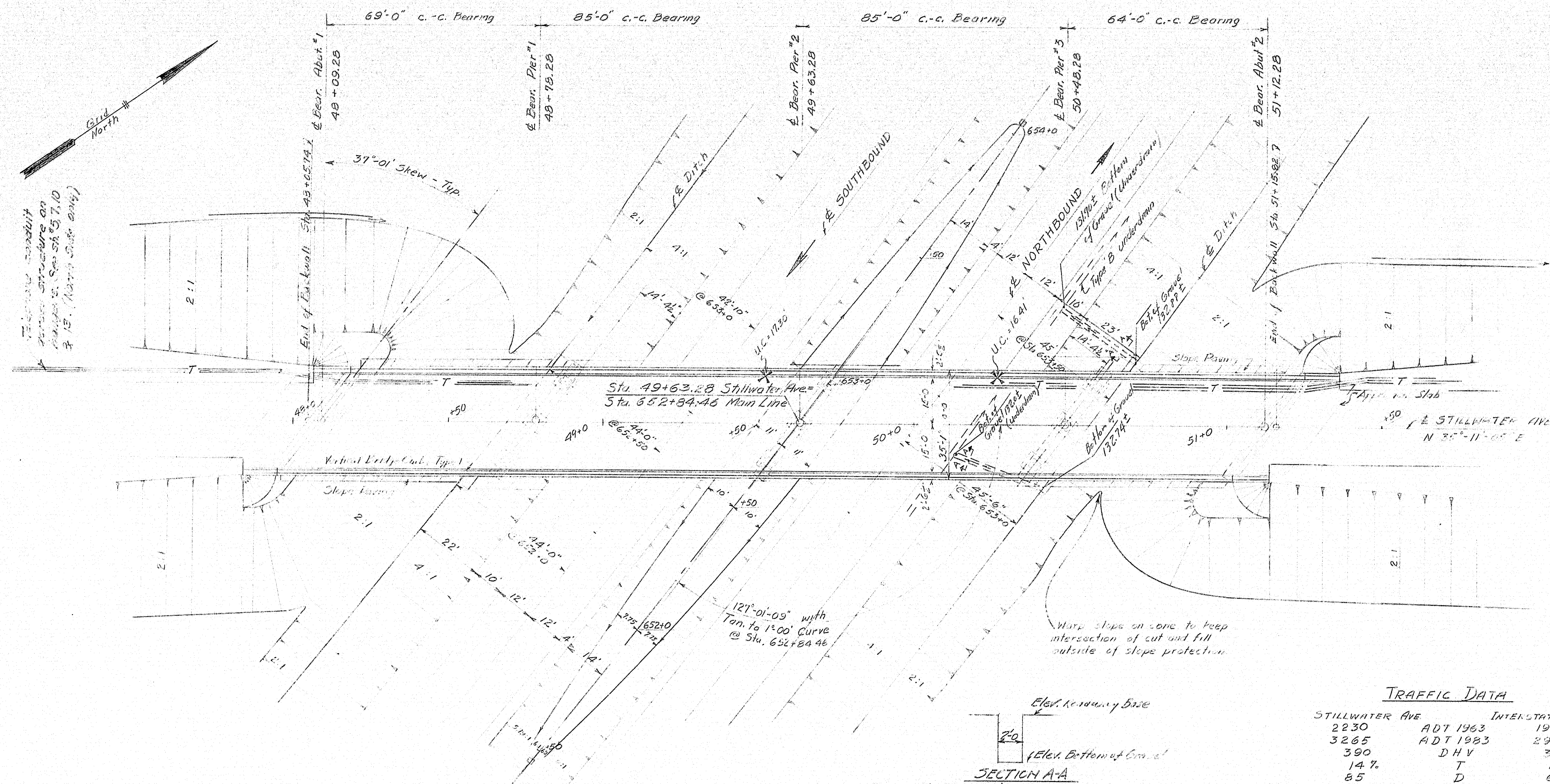


SHOP CONNECTIONS: WELD
FIELD CONNECTIONS: DO
HOLES: 1 5/8"
PAINT: STATE SPECS.

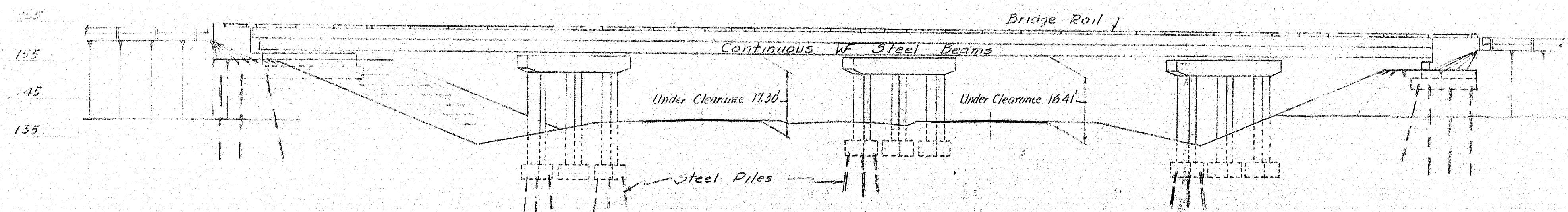
DIAPHRAGMS & DRAINS

| | | | |
|-------------|--------------|---|---|
| PRINT ISSUE | | <i>Bancroft & Martin Inc.</i> <i>Brewer, Maine</i> | |
| | | | |
| | | | |
| | | | |
| 5 | DIST. | 10-1-64 | STILLWATER AVENUE BRIDGE ORONO MAINE |
| 5 | SHOP | 10-1-64 | |
| 2 | F.A. | 9-15-64 | |
| DRAWN | 9-14-64 E.M. | | CUSTOMER <i>REED & REED</i> |
| REVISION | | | DESIGNER <i>STATE HIGHWAY COMM.</i> |
| REVISION | | | |
| REVISION | | | |
| | | | ORDER <i>VERBAL</i> |
| | | | DWG. <i>064-190-58</i> |





PLAN
Scale: 1" = 20'



ELEVATION
Scale: 1" = 20'

SECTION A-A
Detail of trench to drain gravel from under slope paving into Type B underdrains at abutment No. 2 only. Excavation for trenches to be paid for as Structural Earth. Excavation, Drains, Fill for trench shall meet the requirements for Type B Underdrains and be paid for as Gravel for Foundations.

TRAFFIC DATA

| STILLWATER AVE | ADT 1963 | INTERSTATE 95 | ADT 1963 |
|----------------|----------|---------------|----------|
| 2230 | 1985 | 2915 | |
| 3265 | 2915 | 360 | |
| 390 | 360 | 147 | |
| 14.7% | 14.7% | 60 | |
| 55 | 60 | | |
| 45 | 60 | | |

UTILITIES
Bangor Hydro Electric Co.
New England Tel. & Tel. Co.

INDEX OF SHEETS

| |
|---|
| 1. General Plan |
| 2. Bridge Details |
| 3. Bridge Details |
| 4. Typical Section, Profile, Estimate of Quantities |
| 5. Abutment No. 1 |
| 6. Abutment No. 2 |
| 7. Approach Slab Vertical Bridge End, Typ. & Detail |
| 8. Approach Slab Vertical Bridge End, Typ. & Detail |
| 9. Approach Slab Vertical Bridge End, Typ. & Detail |
| 10. Structural Steel |
| 11. Expansion Joints |
| 12. Decking Table |
| 13. Superstructure - 1 |
| 14. Superstructure - 2 |
| 15. Superstructure - 3 |
| 16. Superstructure - 4 |
| 17. Reinforcing Steel Details |

SPECIFICATIONS

DESIGN: A.A.S.M.E. Standard Specifications for Highway Bridges, 1951 with Interim Specifications 1961, 1962.
CONSTRUCTION: State of Maine, State Highway Comm., Standard Specifications for Highways & Bridges, Revision of Jan. 1956 and Supplemental Specifications dated Feb. 1960.

LIVE LOADING

H-20-S16-44

ALLOWABLE STRESSES

CONCRETE: Compressive $f_c = 1500$ psi
REINFORCING STEEL: Intermediate Tensile $f_s = 20,000$ psi
STRUCTURAL STEEL: A36 $f_s = 20,000$ psi

CONCRETE CLASSIFICATION

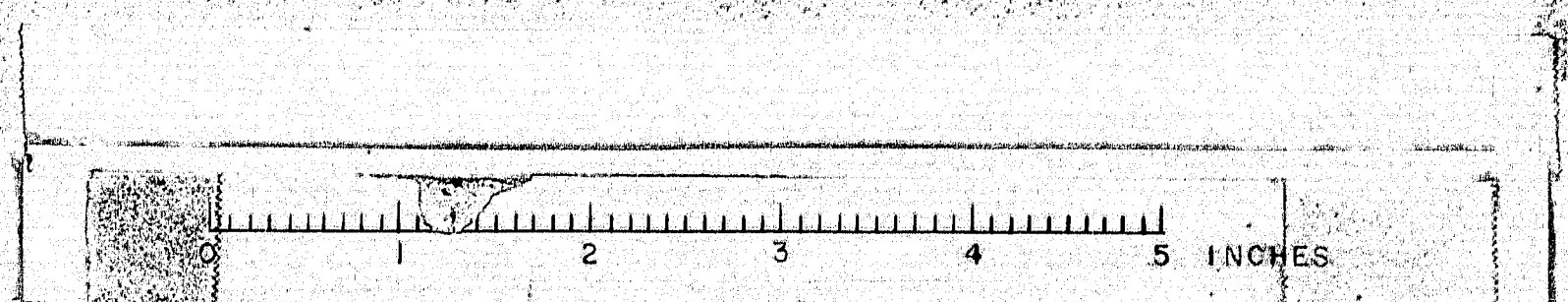
All concrete Class A

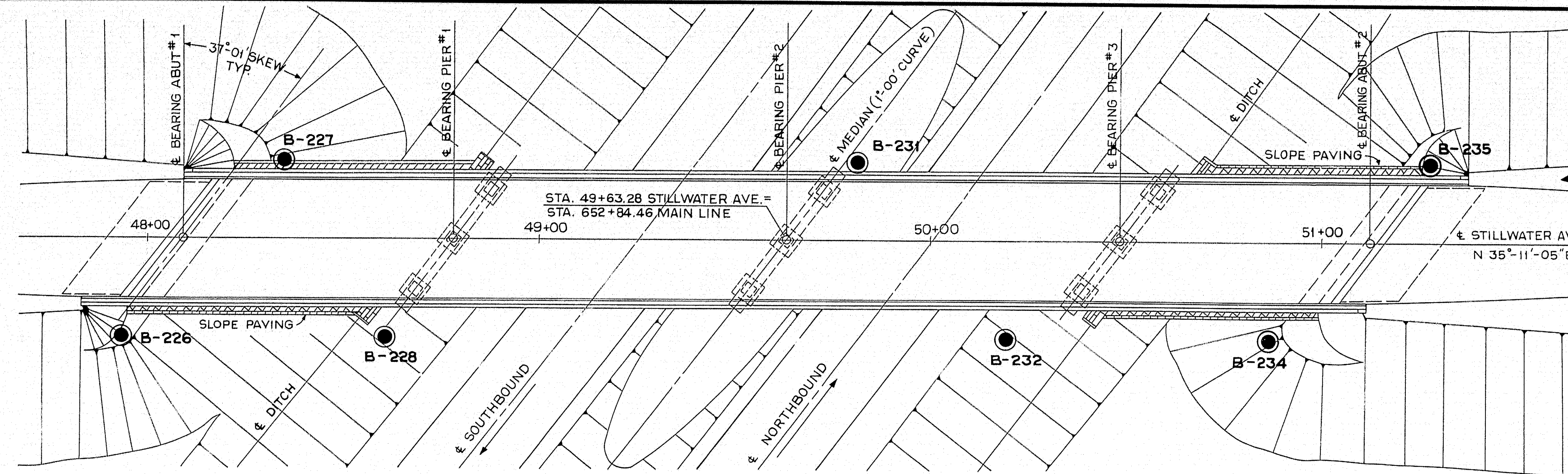
STRUCTURAL STEEL CLASSIFICATION

All structural steel shall conform to the latest revision of the Specification ASTM Designation A36 unless otherwise noted on the Standard Details

| | | |
|---|--------------------|------------|
| DESIGN - WBN | Detail - F. Porter | BRIDGE NO. |
| TRACE - FBF | | SURVEY - |
| CHECK - MHL | | PLOT - |
| STATE HIGHWAY COMMISSION BRIDGE DIVISION | | |
| STILLWATER AVE. BRIDGE | | |
| OVER | | |
| INTERSTATE 95 | | |
| IN THE TOWN OF | | |
| ORONO | | |
| PENOBSCOT COUNTY | | |
| GENERAL PLAN | | |
| SHEET 1 OF 17 AUGUSTA, MAINE FEB. 1964 | | |

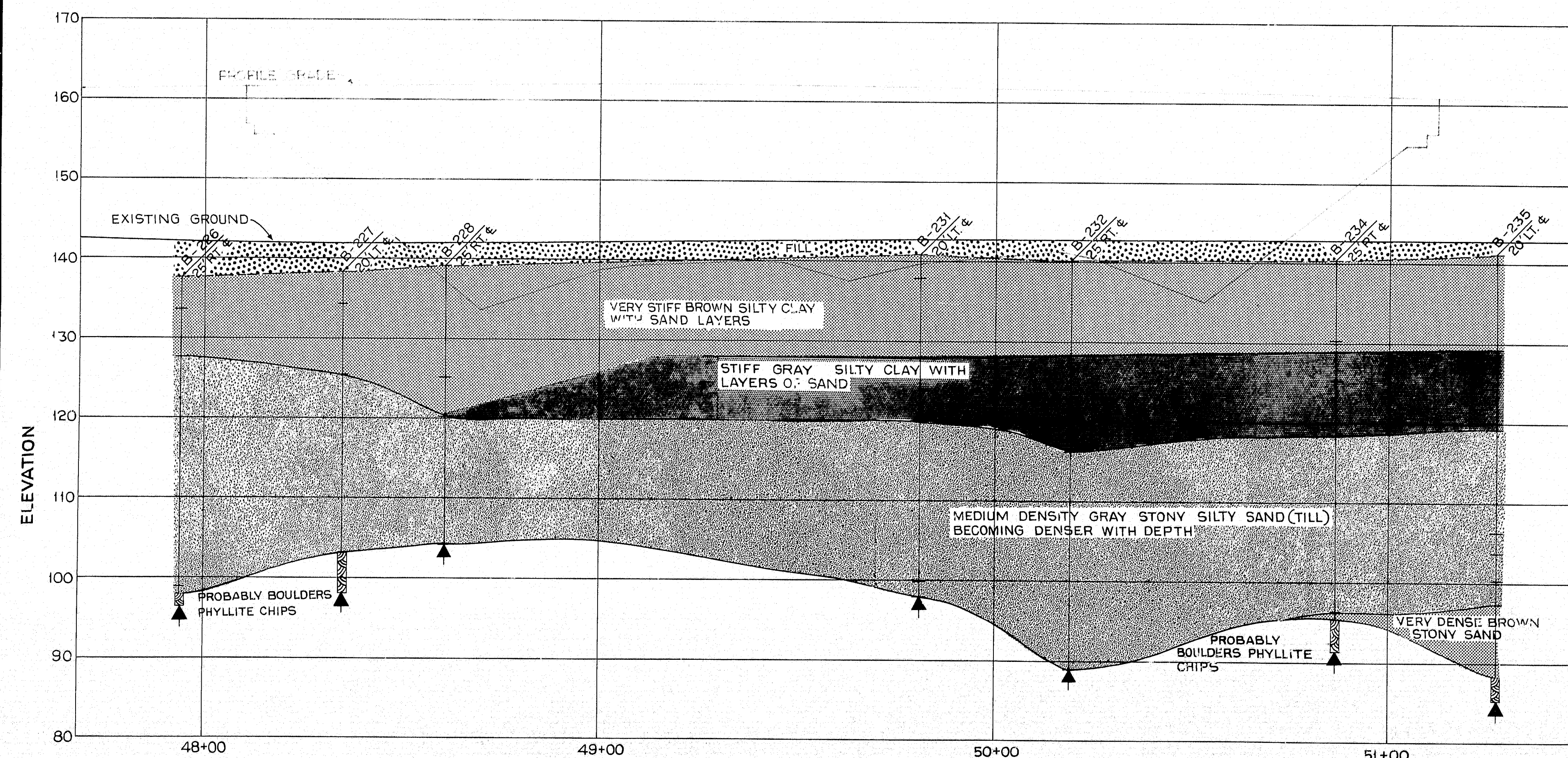
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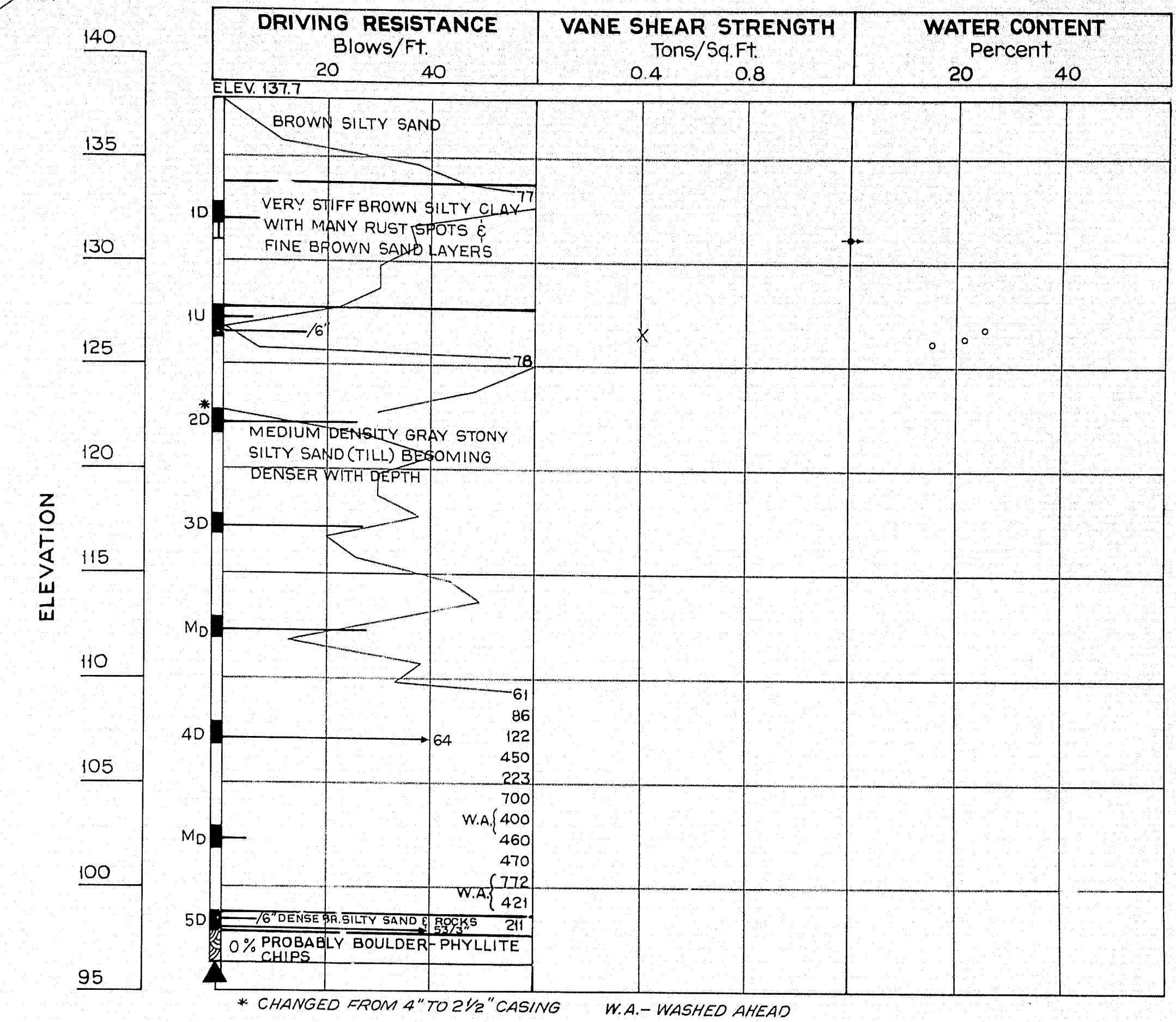


PLAN
SCALE: 1"=20'

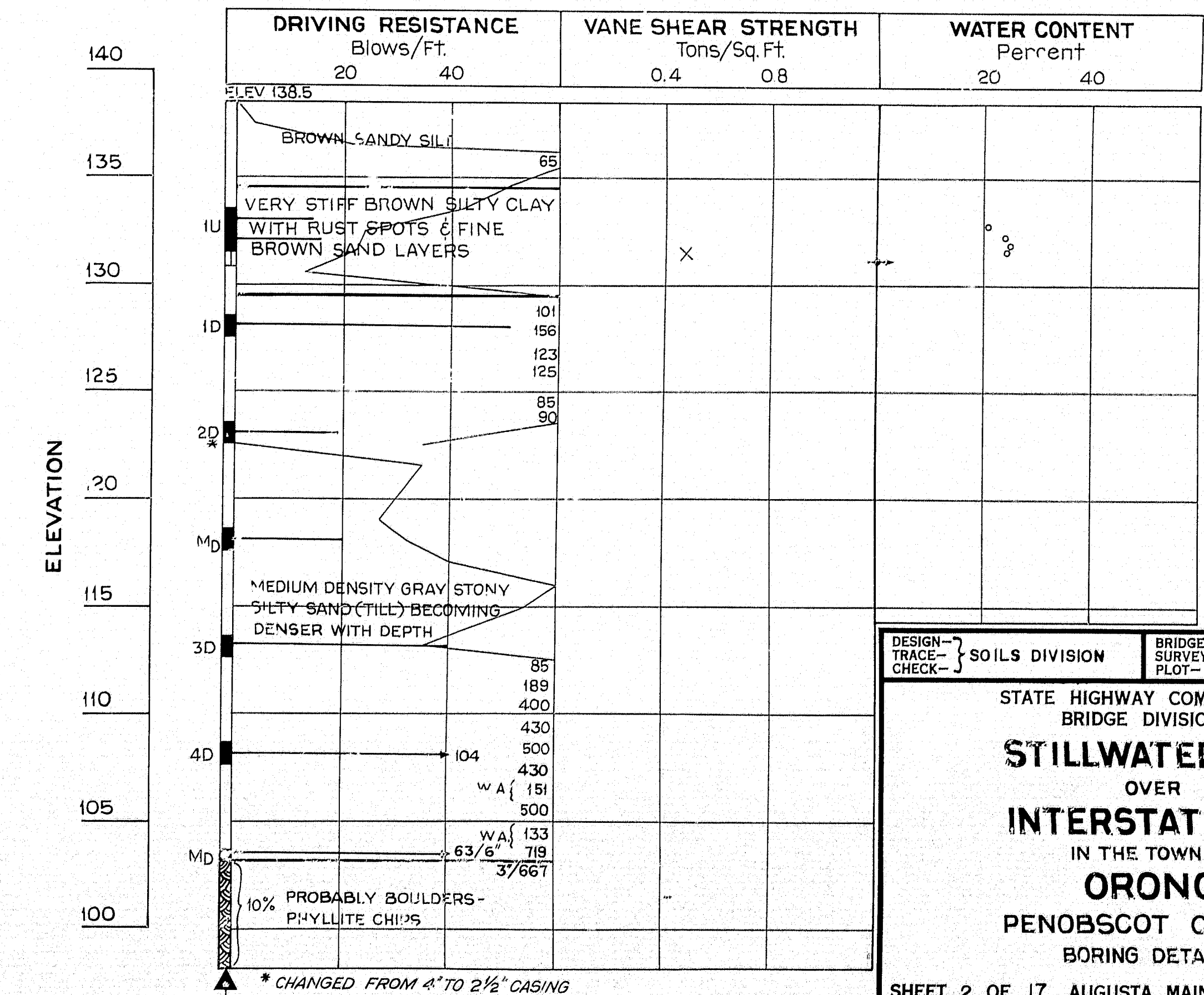
PROFILE
SCALE: 1"=20' HORIZ. 1"=10' VERT.



BORING B-226 STATION 47+94 25' RT. &



BORING B-227 STATION 48+35 20' LT. &



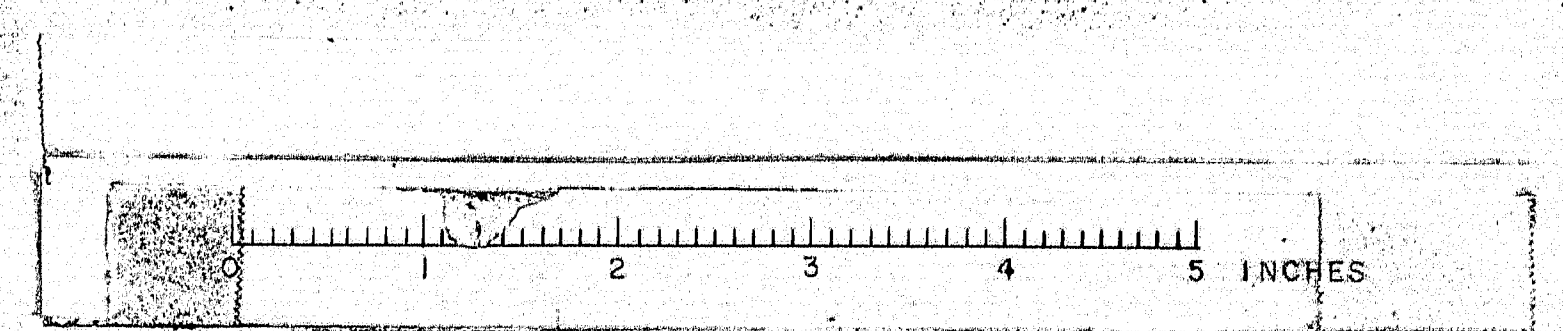
DESIGN -
TRACE -
CHECK -

SOILS DIVISION

BRIDGE NO.
SURVEY -
PLOT -

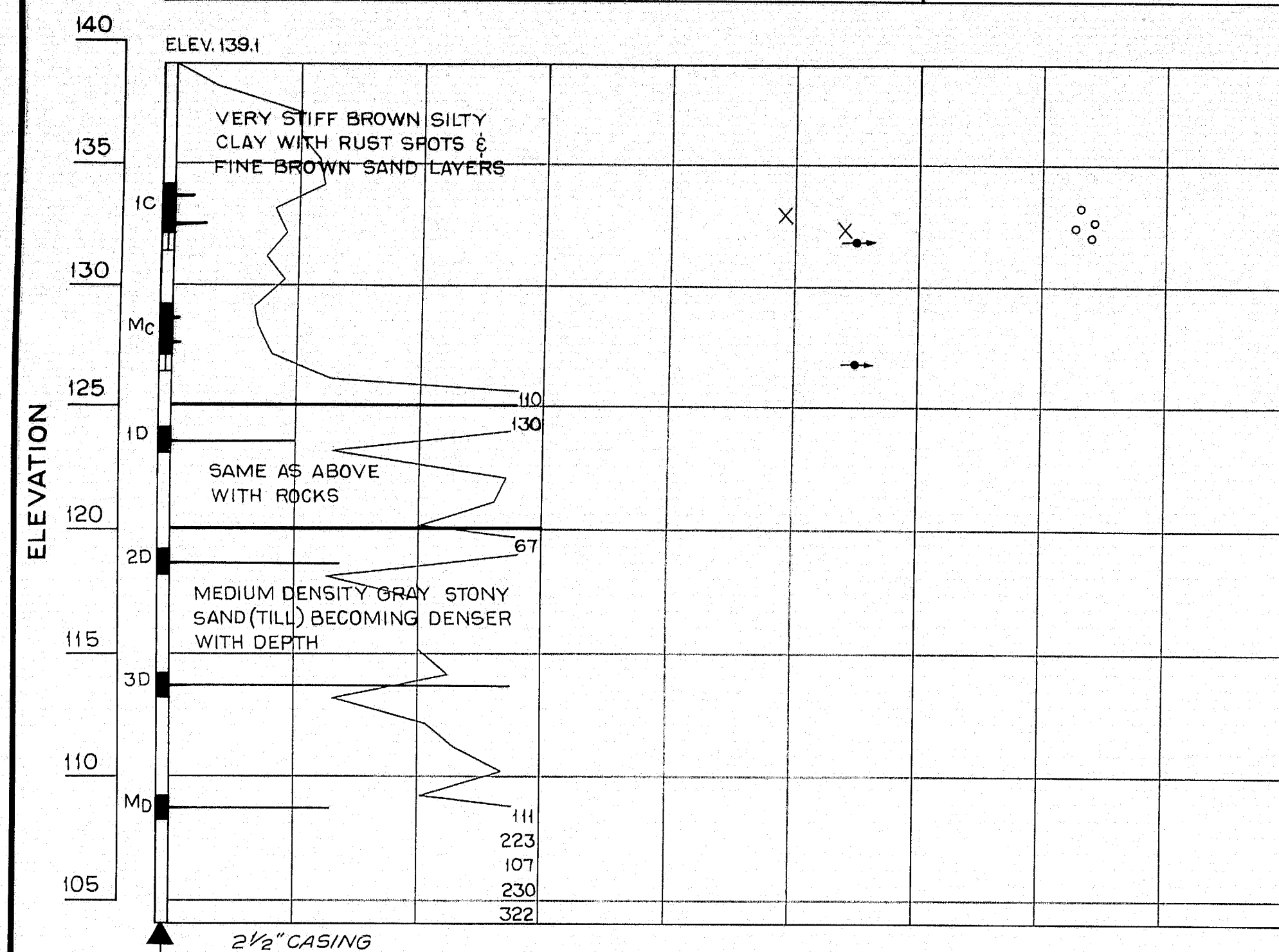
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
STILLWATER AVE.
OVER
INTERSTATE 95
IN THE TOWN OF
ORONO
PENOBSCOT COUNTY
BORING DETAILS

SHEET 2 OF 17 AUGUSTA, MAINE FEB. 1964



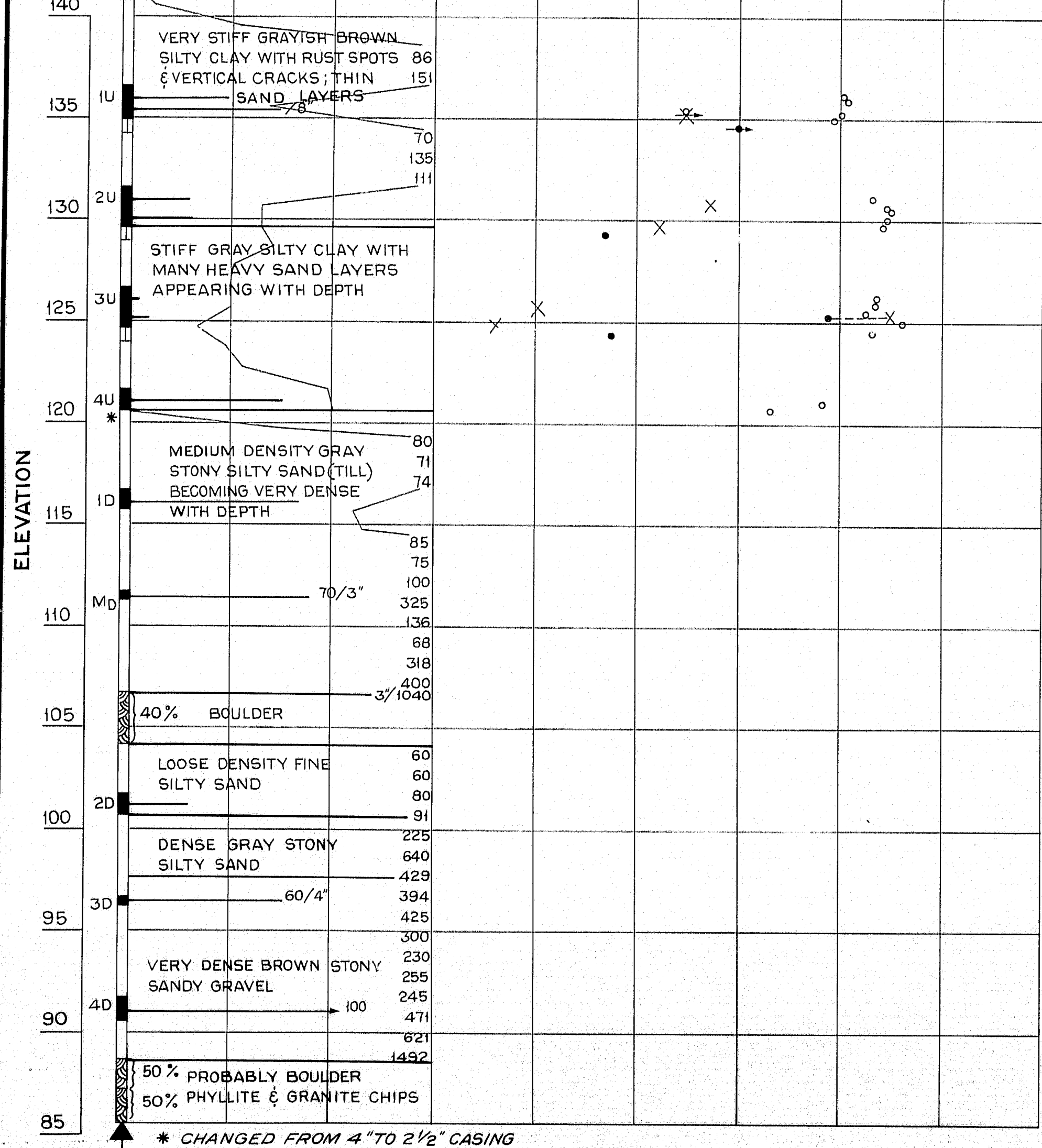
BORING B-228 STATION 48+61 25' RT. &

| DRIVING RESISTANCE | VANE SHEAR STRENGTH | WATER CONTENT |
|--------------------|---------------------|---------------|
| Blows/Ft. | Tons/Sq.Ft. | Percent |
| 20 40 | 0.4 0.8 | 20 40 |



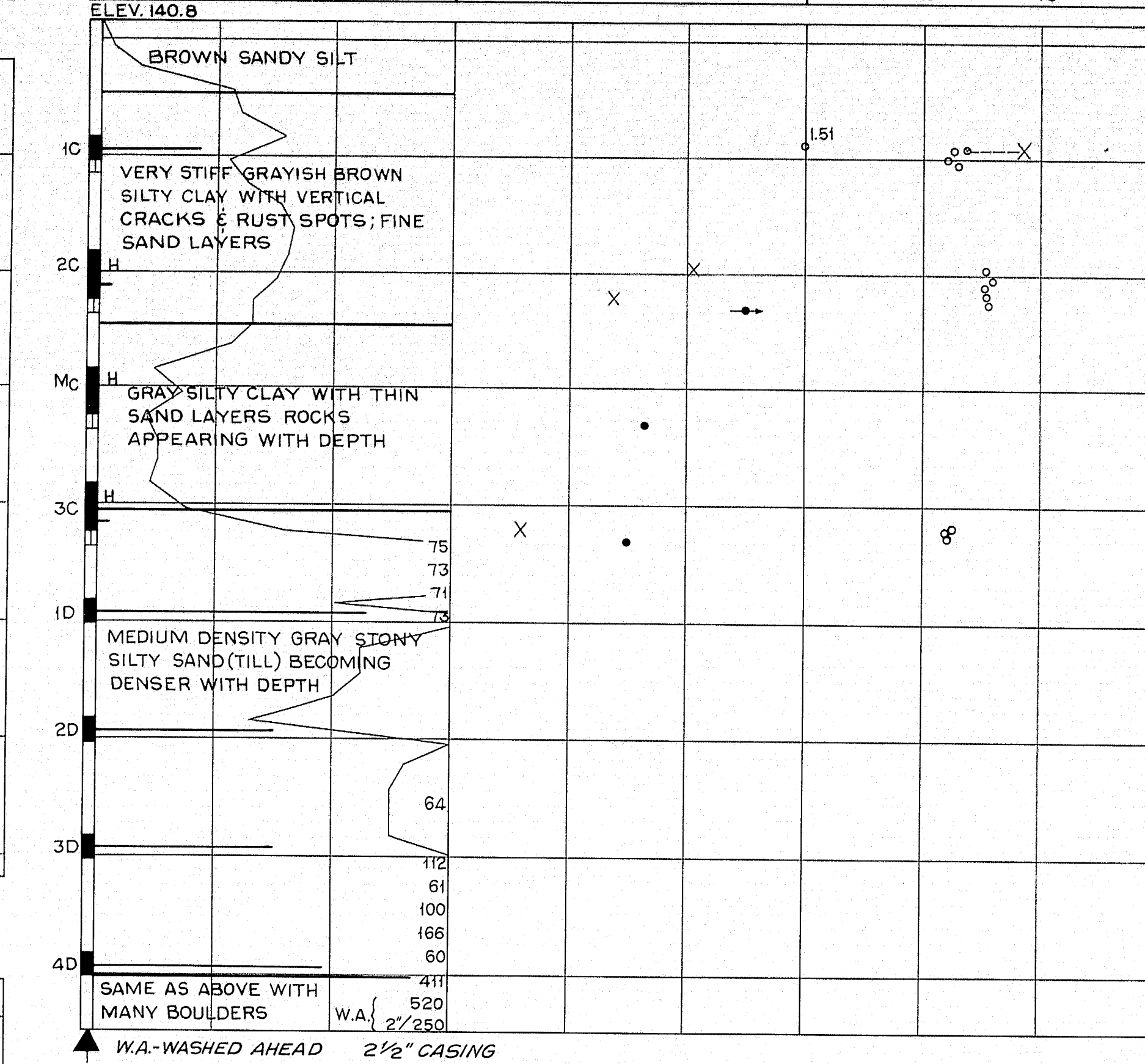
BORING B-235 STATION 51+27 20' LT. &

| DRIVING RESISTANCE | VANE SHEAR STRENGTH | WATER CONTENT |
|--------------------|---------------------|---------------|
| Blows/Ft. | Tons/Sq.Ft. | Percent |
| 20 40 | 0.4 0.8 | 20 40 |



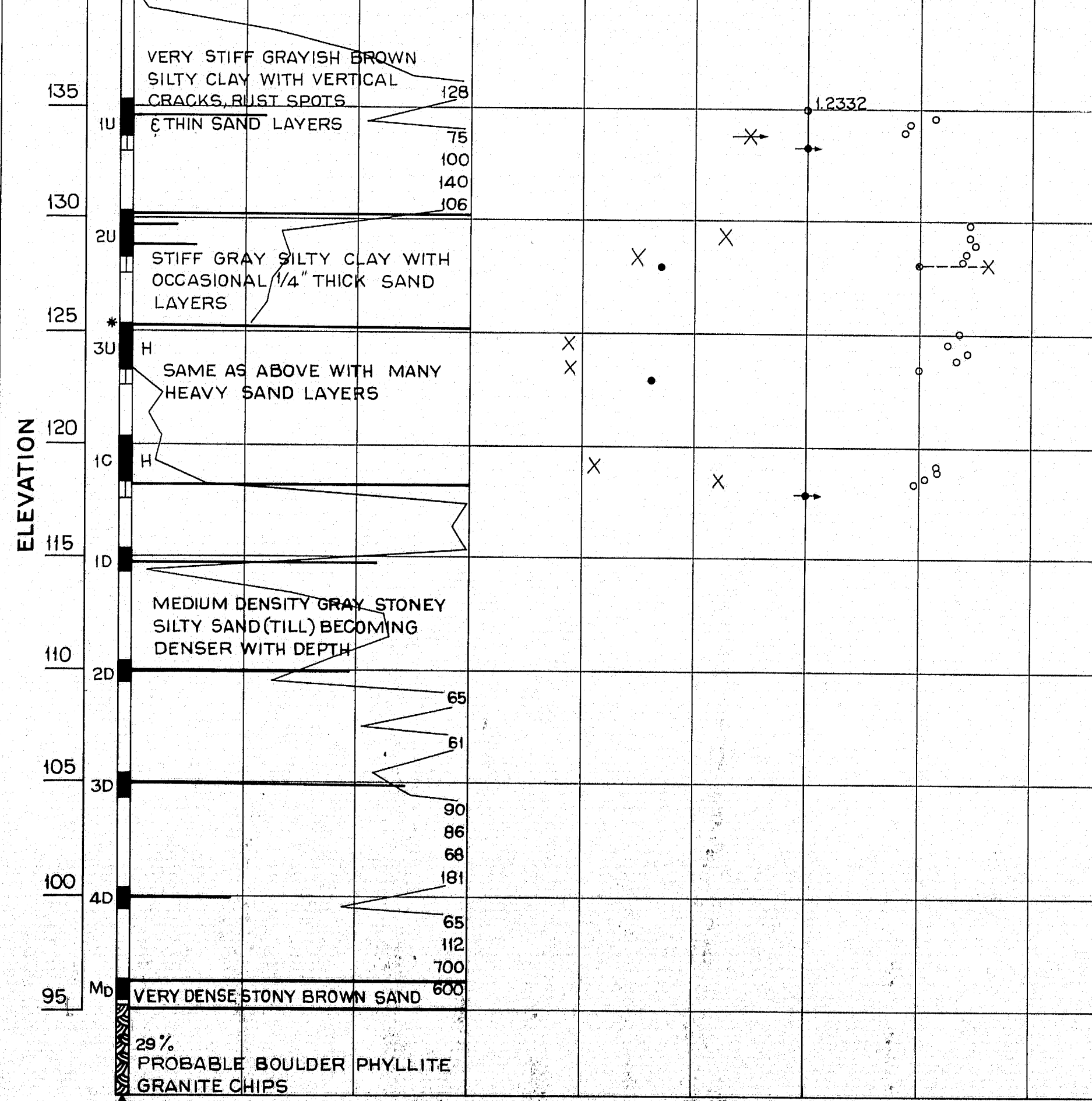
BORING B-231 STATION 49+81 20' LT. &

| DRIVING RESISTANCE | VANE SHEAR STRENGTH | WATER CONTENT |
|--------------------|---------------------|---------------|
| Blows/Ft. | Tons/Sq.Ft. | Percent |
| 20 40 | 0.4 0.8 | 20 40 |



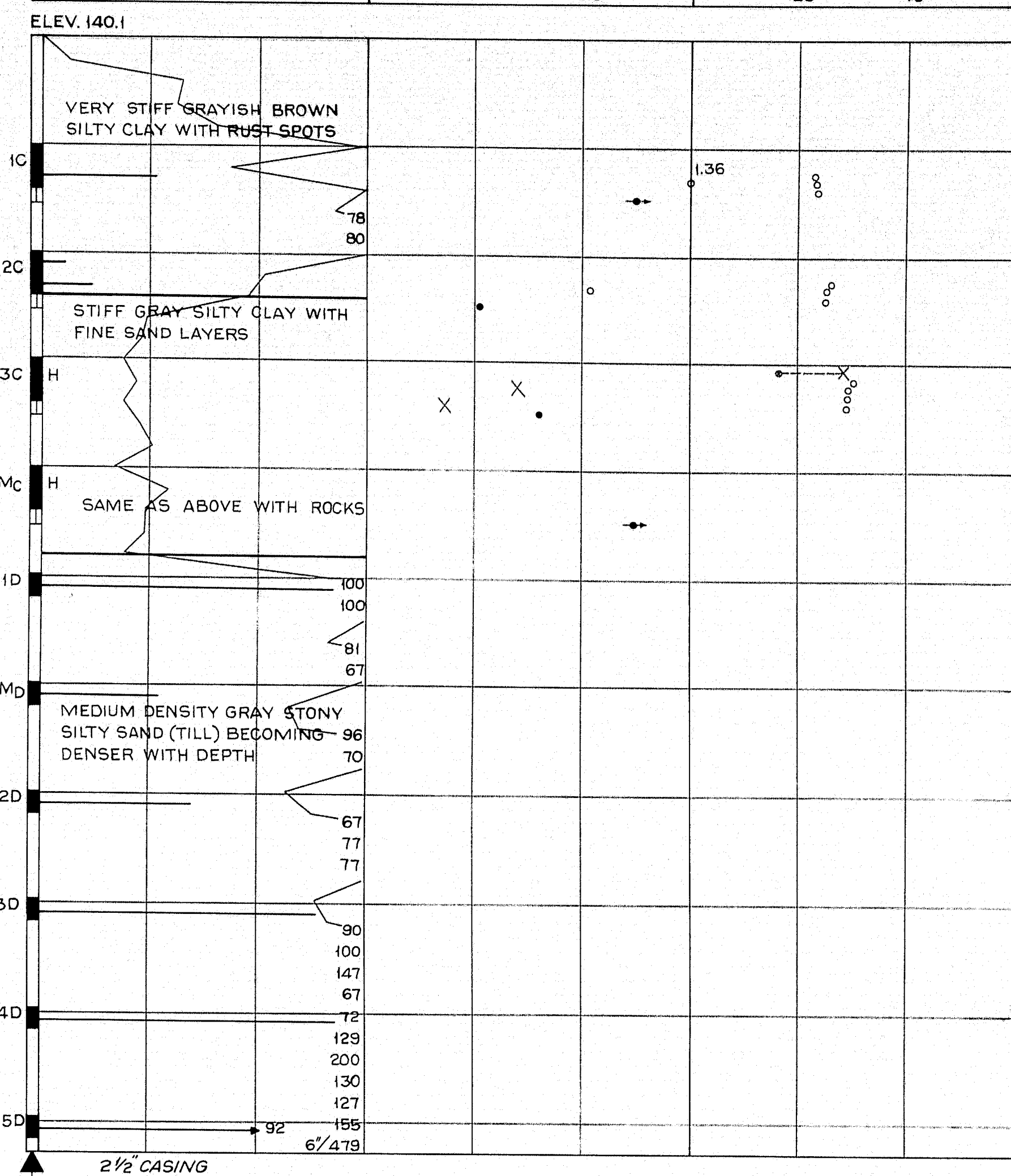
BORING B-234 STATION 50+86 25' RT. &

| DRIVING RESISTANCE | VANE SHEAR STRENGTH | WATER CONTENT |
|--------------------|---------------------|---------------|
| Blows/Ft. | Tons/Sq.Ft. | Percent |
| 20 40 | 0.4 0.8 | 20 40 |



BORING B-232 STATION 50+19 25' RT. &

| DRIVING RESISTANCE | VANE SHEAR STRENGTH | WATER CONTENT |
|--------------------|---------------------|---------------|
| Blows/Ft. | Tons/Sq.Ft. | Percent |
| 20 40 | 0.4 0.8 | 20 40 |



BORING NOTES

- ALL SAMPLES 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
- ID S & H SAMPLER #1290'S
- IC 2" O.D. 16 GA. SEAMLESS TUBING
- IU 3 1/2" O.D. 16 GA. SEAMLESS TUBING
- 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
- H SAMPLING SPOON OR SEAMLESS TUBING DRIVEN BY STATIC WEIGHT OF DRILL RODS AND HAMMER
- FIELD VANE TEST
- ▲ BOTTOM OF BORING (MAY NOT BE BOTTOM OF SOIL STRATA)
- 7/16" LOCATIONS CORED BY DIAMOND BIT AND PER CENT RECOVERY OF ROCK

SHEAR NOTES

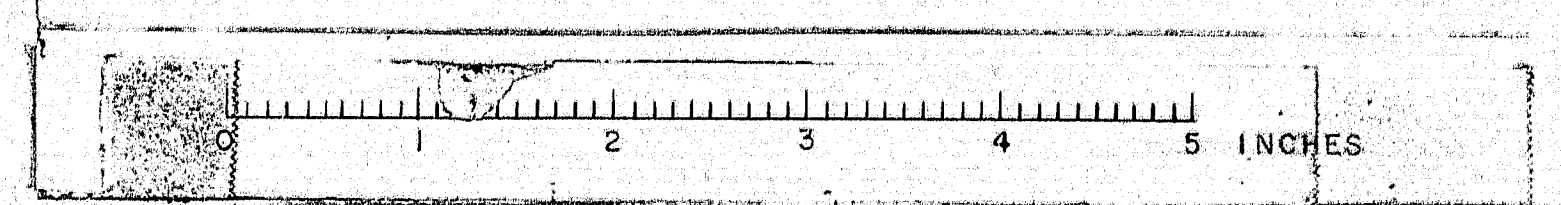
- FIELD VANE SHEAR STRENGTHS
- x LABORATORY VANE SHEAR STRENGTHS
- SHEAR STRENGTH IN EXCESS OF CAPACITY OF EQUIPMENT
- o ONE HALF UNCONFINED COMPRESSIVE STRENGTHS

WATER CONTENT NOTES

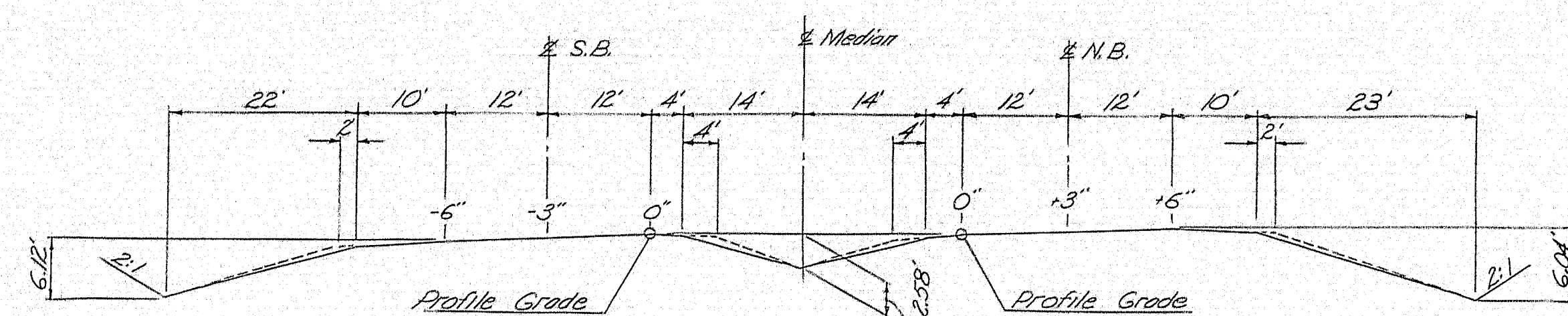
- o NATURAL WATER CONTENTS GIVEN AS PER CENT OF DRY WEIGHT
- - - - x PLASTIC AND LIQUID LIMITS

| | | |
|---|----------------|----------------------------------|
| DESIGN - TRACE - CHECK - | SOILS DIVISION | BRIDGE NO. SURVEY - PLOT - |
| STATE HIGHWAY COMMISSION BRIDGE DIVISION | | |
| STILLWATER AVE. OVER INTERSTATE 95 IN THE TOWN OF ORONO PENOBSCOT COUNTY BORING DETAILS | | |
| SHEET 3 OF 17 AUGUSTA, MAINE FEB. 1964 | | |

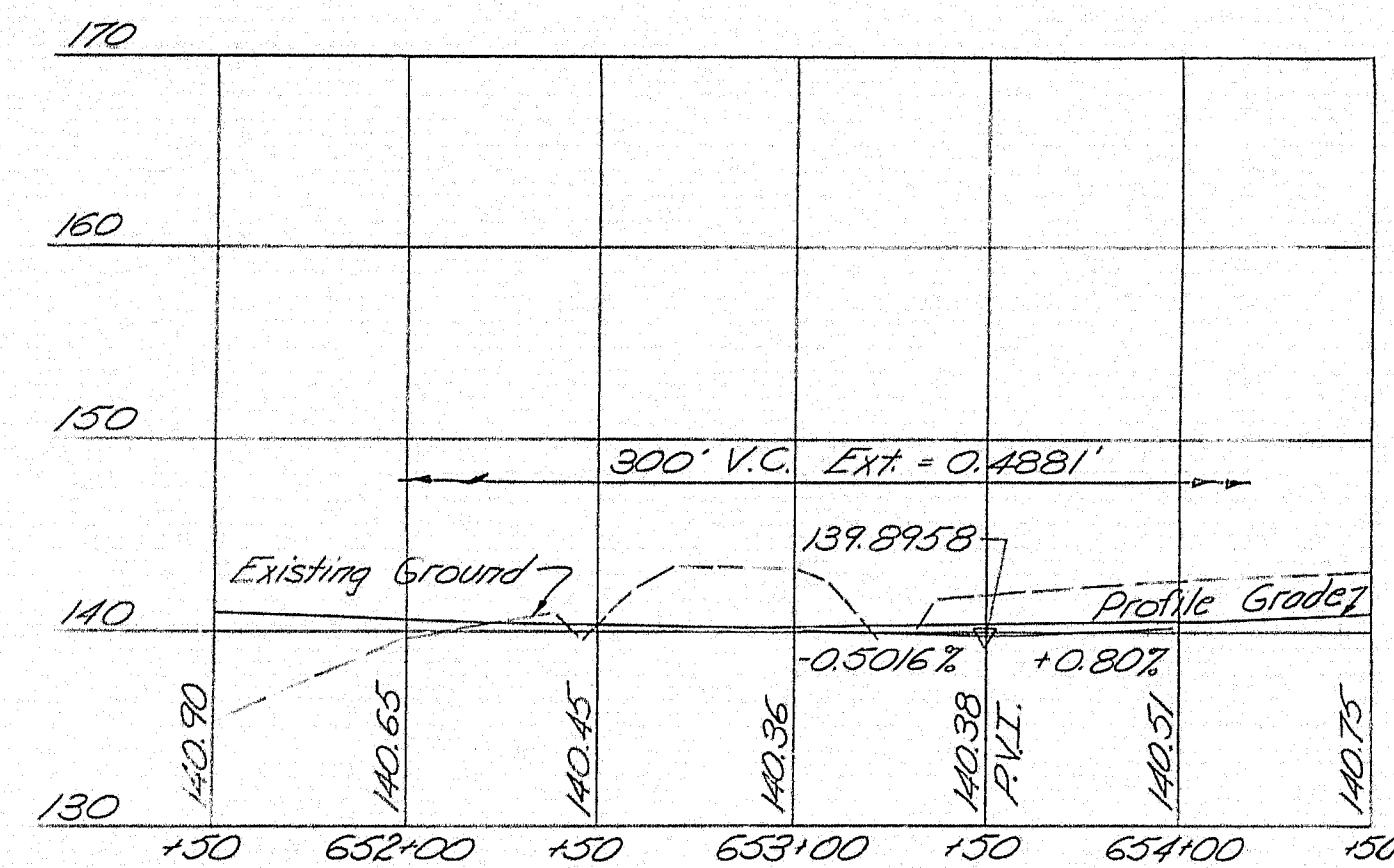
M-2114



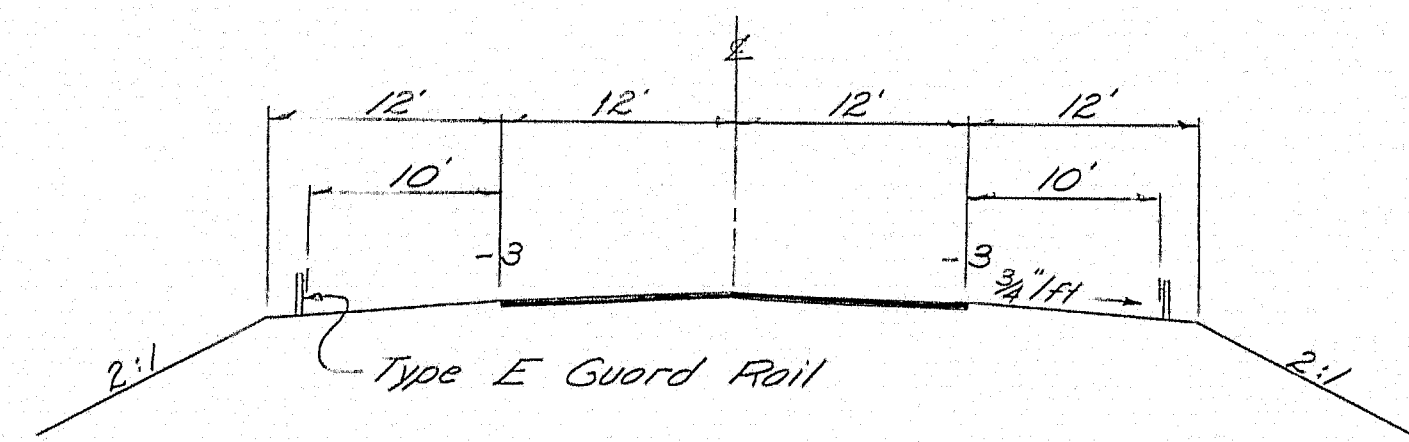
| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|----------------------|-------|----------------|-----------|--------------|
| 1 | MAINE | I-95-B (1) | 15 | 115 |



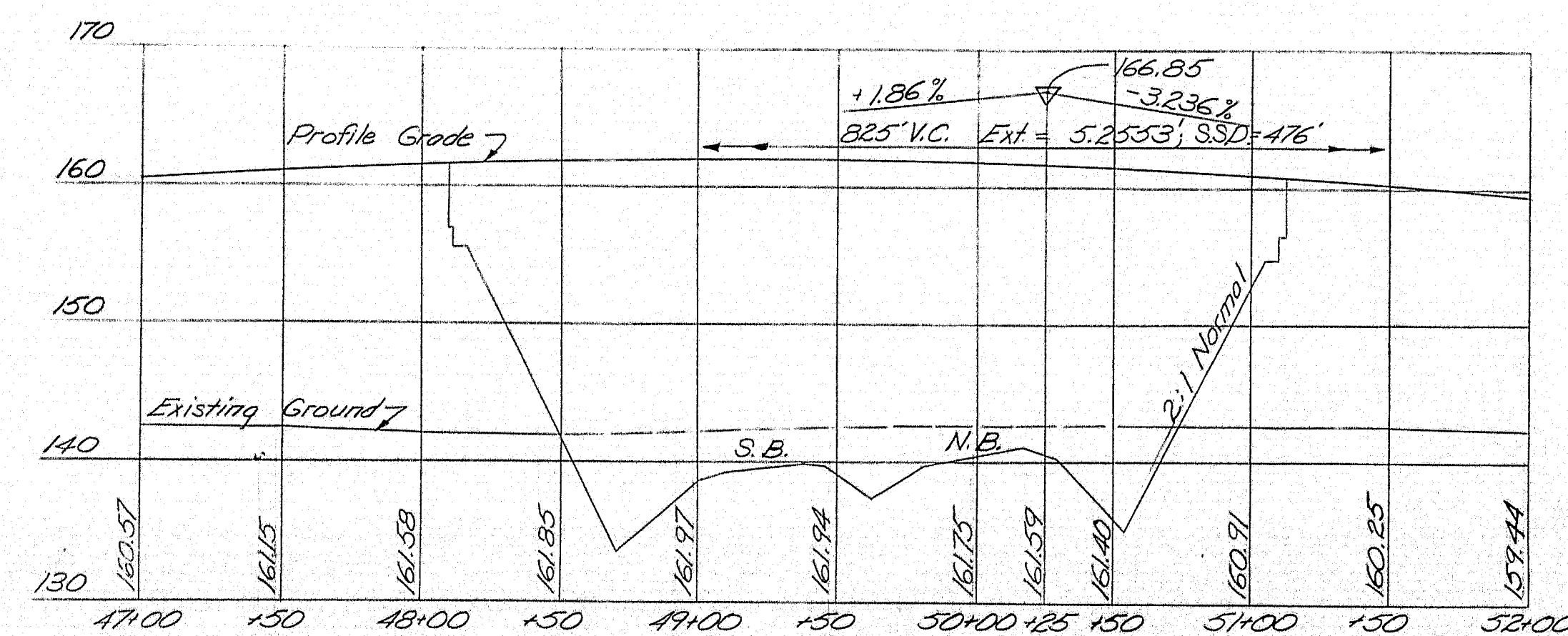
SECTION INTERSTATE #95
Dashed lines indicate widened section under bridge



INTERSTATE #95 PROFILE
Scale: Horiz. 1"=50', Vert. 1"=10'



SECTION STILLWATER AVENUE

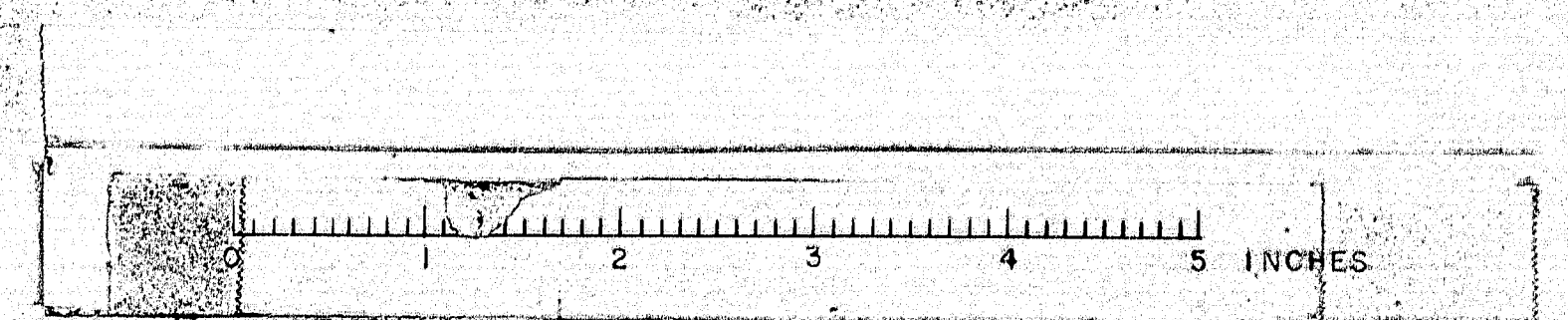


STILLWATER AVENUE PROFILE
Scale: Horiz. 1"=50', Vert. 1"=10'

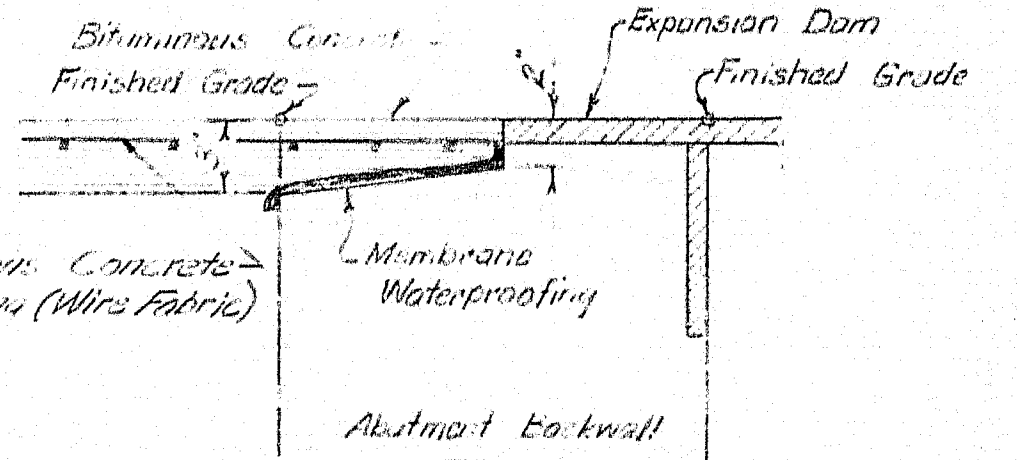
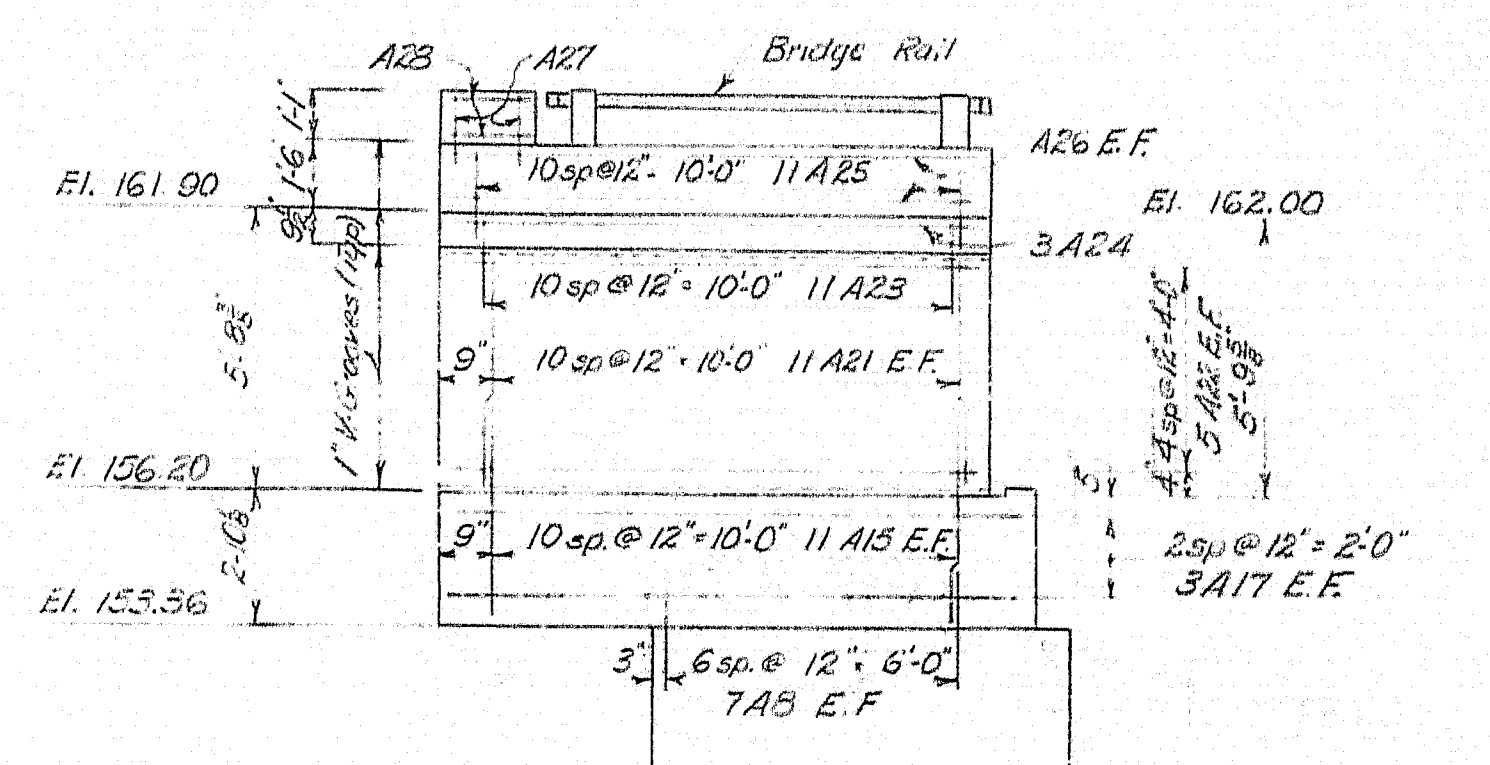
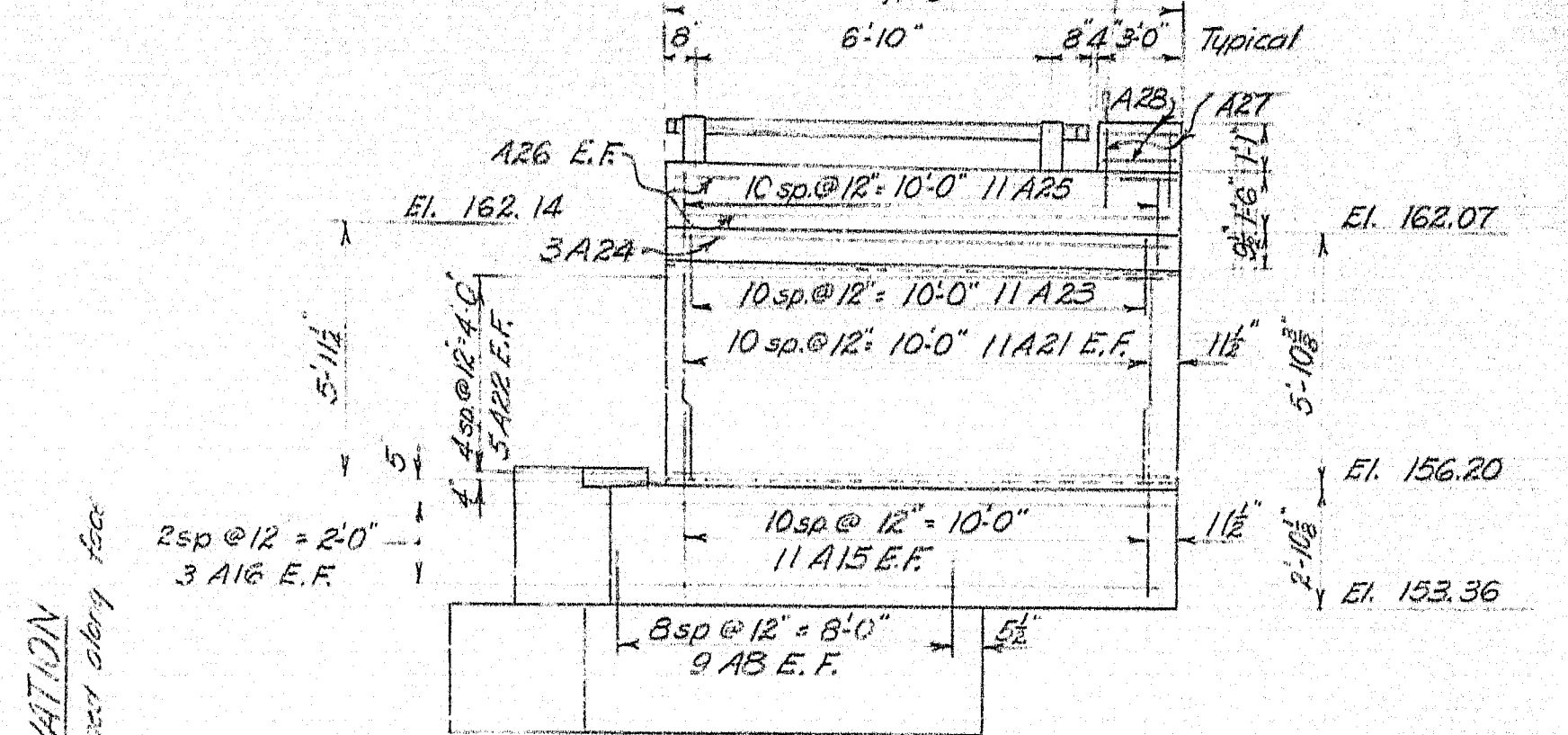
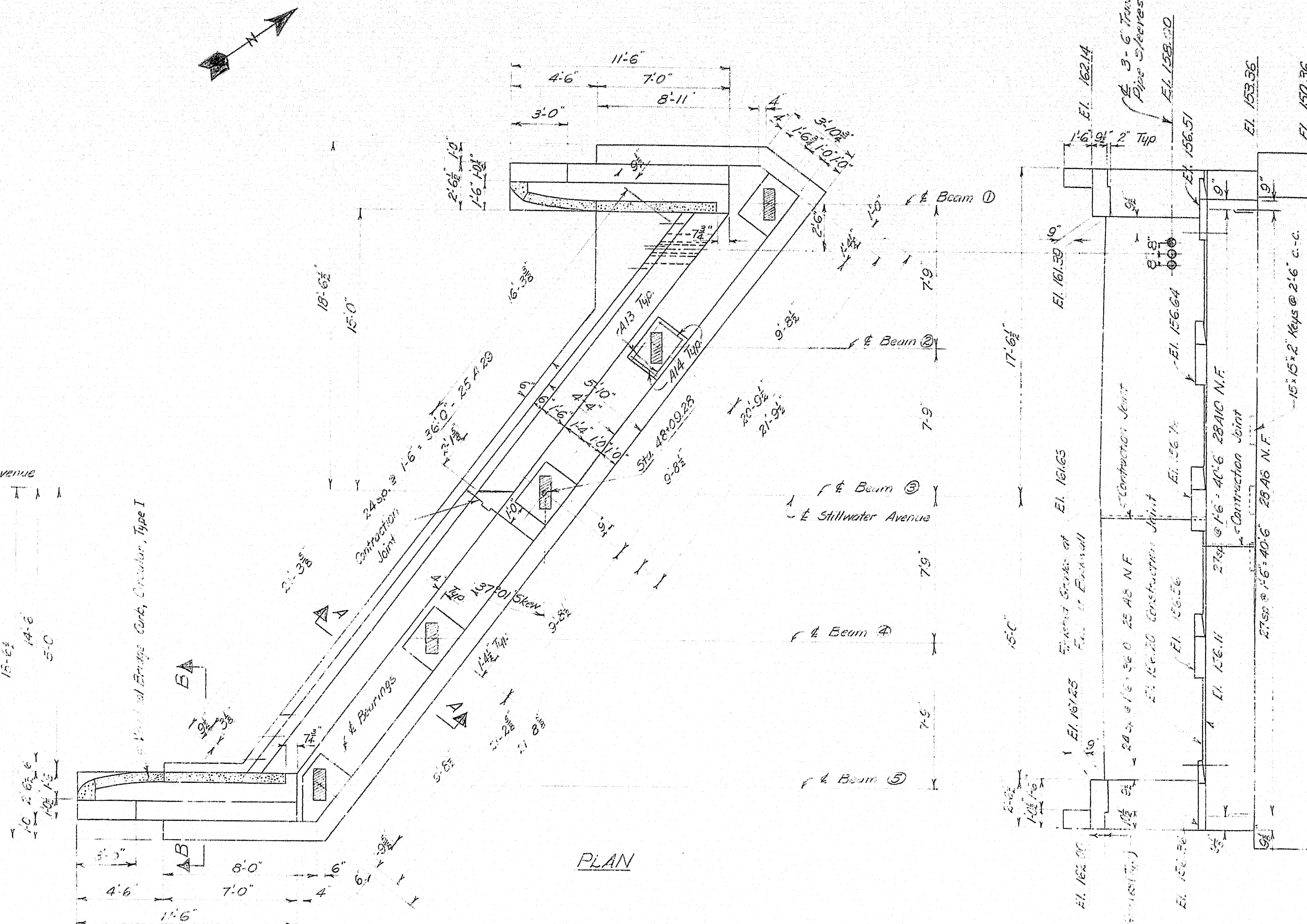
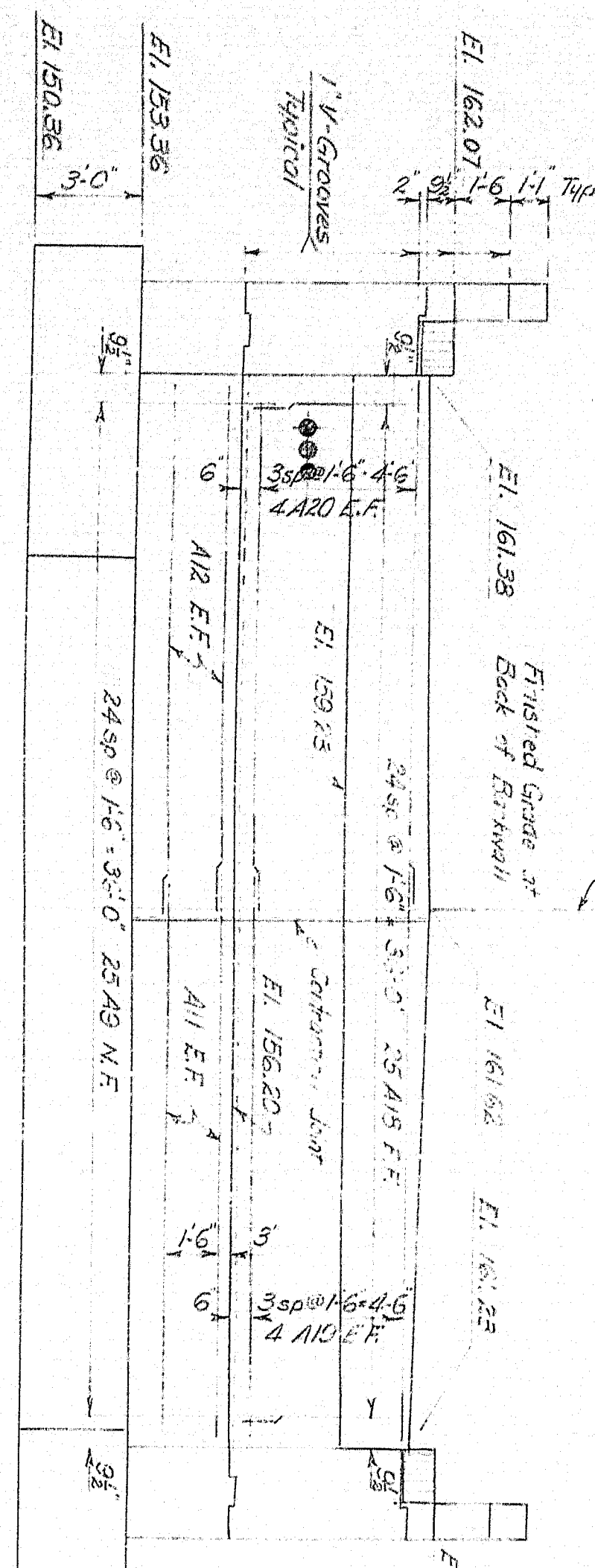
| ESTIMATE OF QUANTITIES | | |
|--|----------|----------|
| DESCRIPTION | UNIT | QUANTITY |
| Structural Earth Excavation - Piers | Cu. Yds. | 525 |
| Bituminous Concrete Surface Course, Type 'A' | Tons | 112 |
| Portland Cement Concrete, Abutments and Retaining Walls | Cu. Yds. | 202 |
| Portland Cement Concrete, Piers | Cu. Yds. | 215 |
| Portland Cement Concrete Roadway and Sidewalk Slabs on Steel Bridges | Cu. Yds. | 340 |
| Curing Box for Concrete Cylinders | Each | 1 |
| Structural Steel, Fabricated and Delivered | L. S. | Lump Sum |
| Structural Steel, Erection | L. S. | Lump Sum |
| Structural Steel, Field Painting | L. S. | Lump Sum |
| Reinforcing Steel, Delivered | Lbs. | 108,580 |
| Reinforcing Steel, Placing | Lbs. | 108,580 |
| Steel H-Beam Piles, 42 lbs./ft. | Lin. Ft. | 32.55 |
| Bridge Rail | Lin. Ft. | 648 |
| Membrane Waterproofing | Sq. Yds. | 102.5 |
| Epoxy Resin Surface Sealant | Sq. Yds. | 95 |
| Slope Paving | Sq. Yds. | 560 |
| Vertical Bridge Curb, Type I | Lin. Ft. | 637 |
| Vertical Bridge Curb, Circular, Type I | Lin. Ft. | 21 |

Estimated Weight of Structural Steel = 330,950 lbs., including drains.

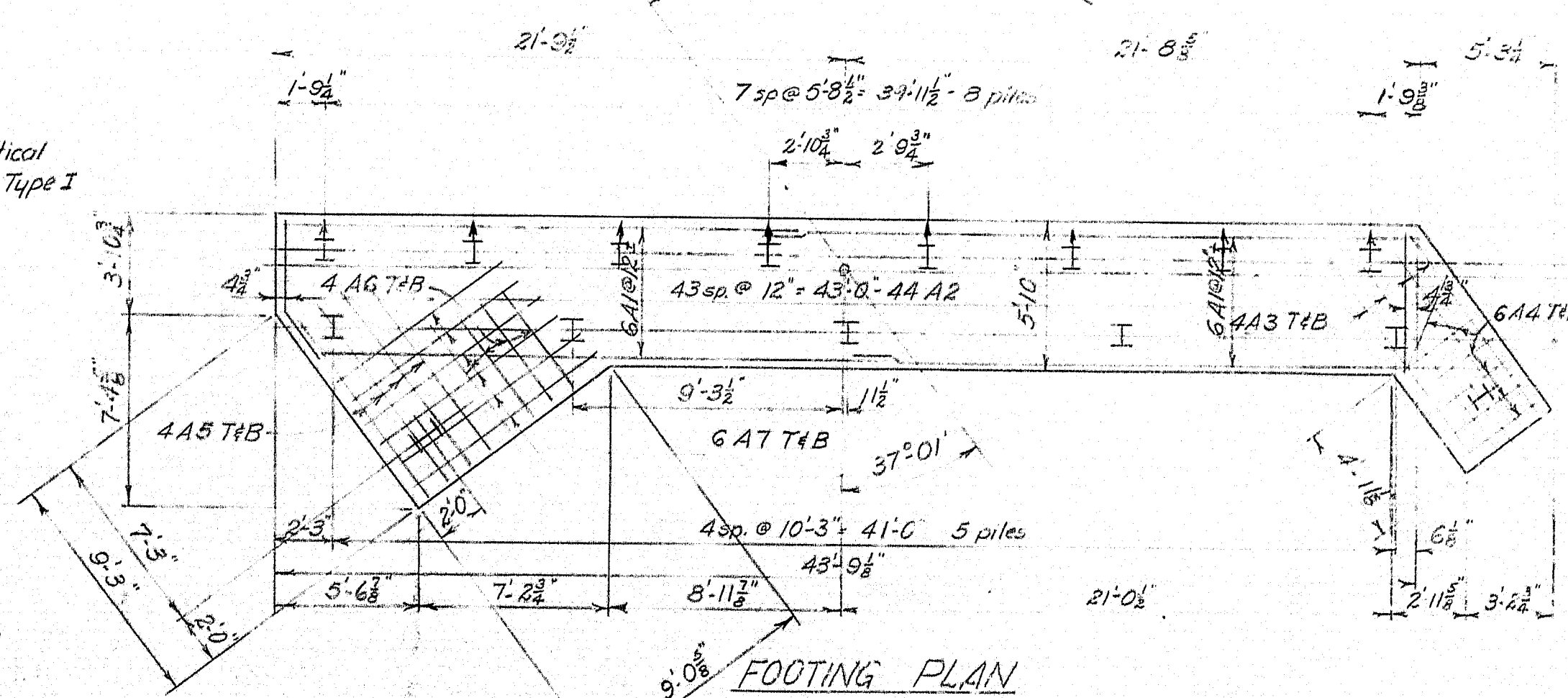
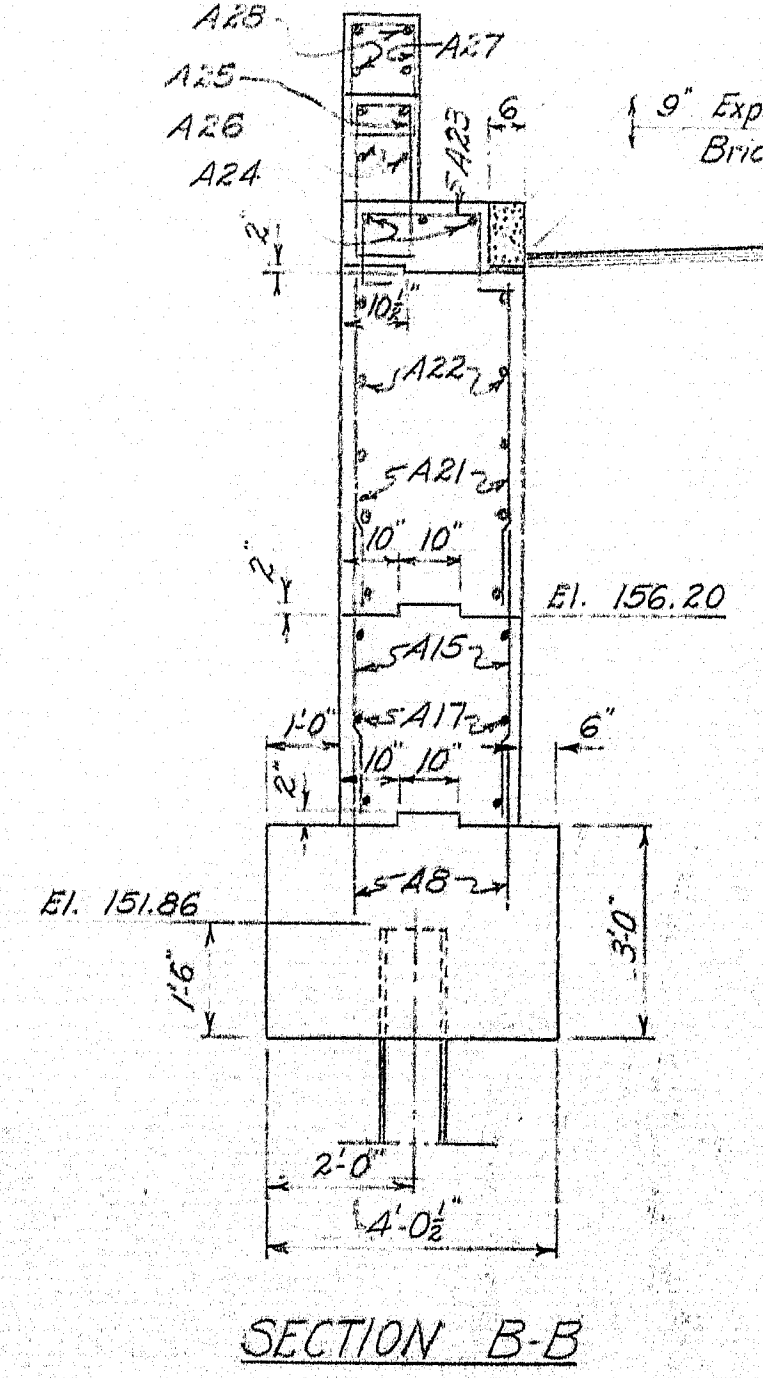
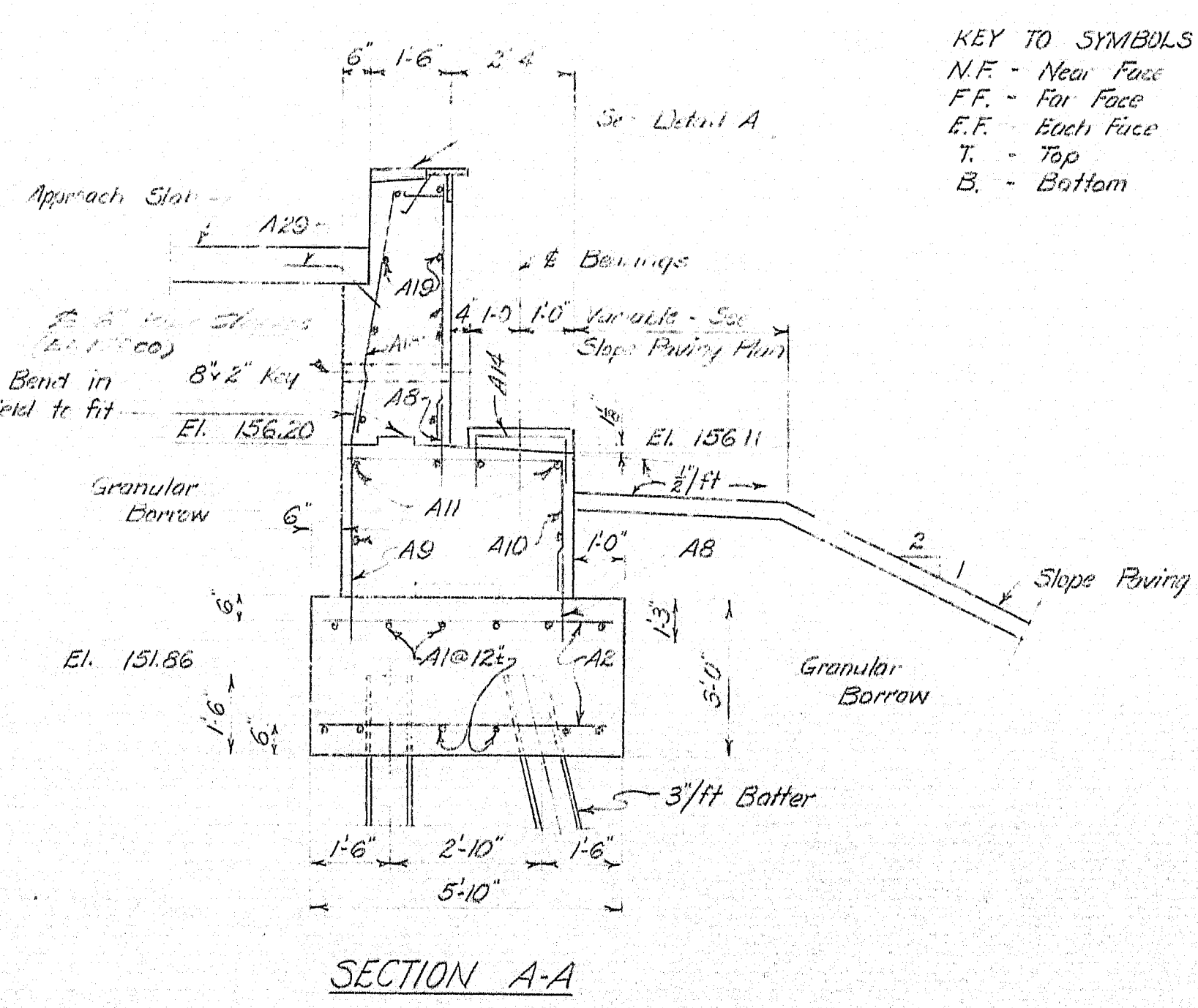
| | |
|--|----------------------------------|
| DESIGN - GRAY TRACE - GRAY CHECK - GRAY | BRIDGE NO. SURVEY - PLOT - |
| STATE HIGHWAY COMMISSION BRIDGE DIVISION STILLWATER AVE. BRIDGE OVER INTERSTATE 95 IN THE TOWN OF ORONO PENOBSCOT COUNTY TYPICAL SECTIONS, PROFILES, ESTIMATE OF QUANTITIES | |
| SHEET 4 OF 17 AUGUSTA, MAINE FEB. 1964 | |



Payment for end post to be made under Item 701-33, typical for abutments.



Overlap membrane waterproofing a minimum of 1' at expansion dam and back of backwall.



PILE NOTES

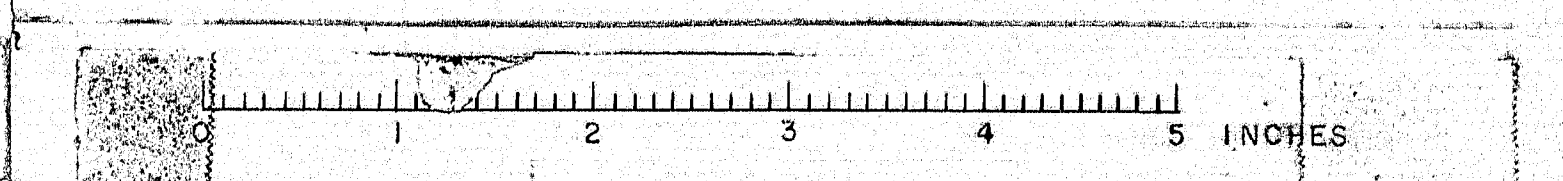
1. Fifteen (15) 10BPA2 steel H piles required.
2. Maximum pile load = 37 tons.
3. Piles to be driven to ledge or practical refusal to develop and bearing.
4. Piles marked with arrow to be battered 3 inches per foot in direction of arrow.
5. Estimated length of piles = 7 @ 50' (Left) 8 @ 55' (Right)

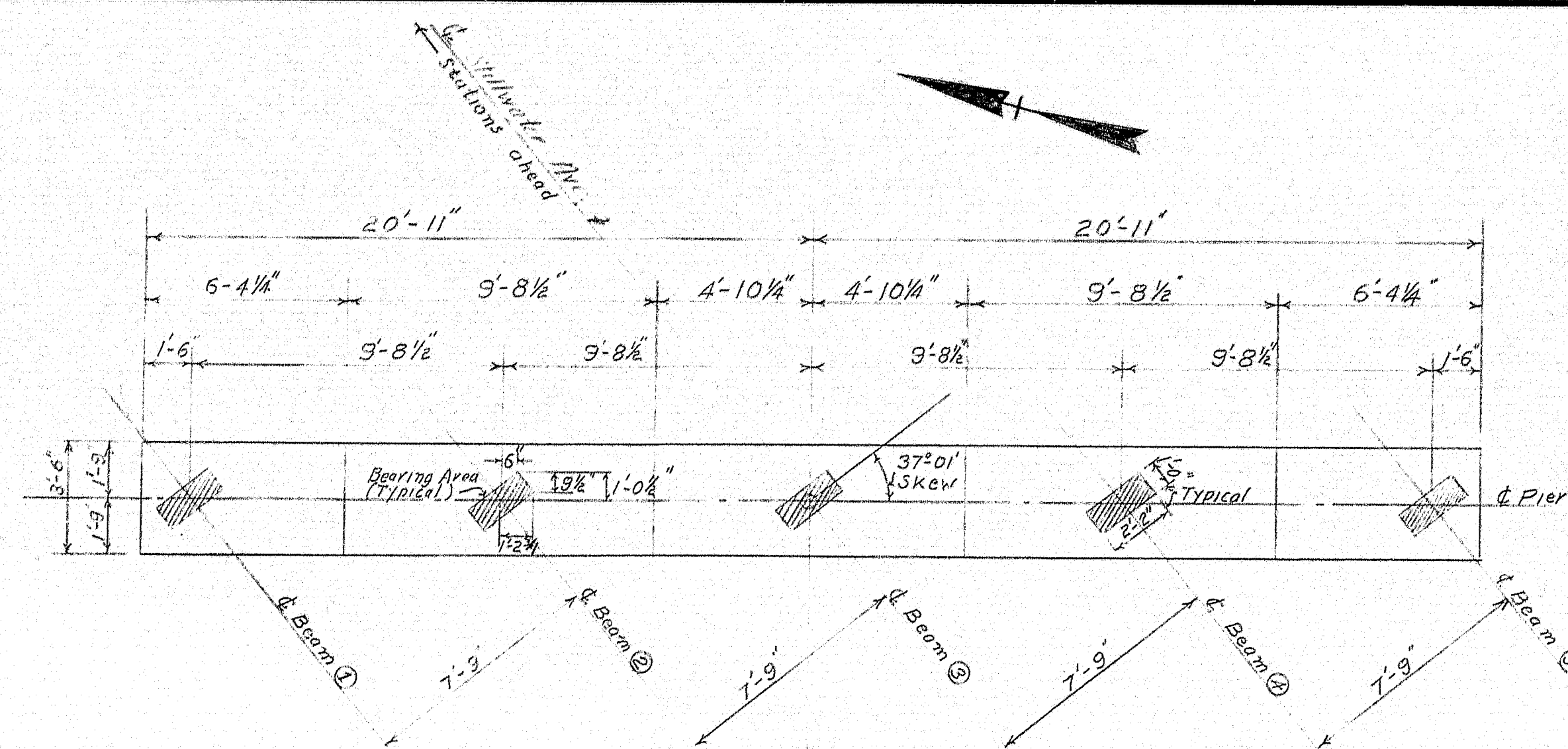
GENERAL NOTES

1. Place reinforcing steel in bridge seats to clear the anchor bolts.
2. Dress bearing areas 1" larger all around than size of masonry plate to exact elevation shown.
3. For detail of 1" V-grooves see Sh. "7".
5. For details of slope paving see Sh. "9".
6. For approach slab details see Sh. "8".
7. Coat bridge seats and front face of breastwall and backwall down to six inches below slope paving with Epoxy Resin Surface Sealant.
8. Cover back side of contraction joint with two layers of heavy roofing 18" wide. Coat the surface of concrete and the back side of each layer as applied with a suitable grade of roofing cement. The area to be covered will be recessed 2".
9. For details of contraction joint see Sh. "7".
10. Vertical Bridge Curb, Type I, see Sh. "6".
11. Nail see standard detail sheet BD-102-64.
12. All reinforcing steel shall have 2' clear.
13. For expansion dam details see Sh. "11".
14. Chamfer all exposed edges 2".

| | | |
|---|-----------------|--------------------------|
| DESIGN - W.B.H. | DETAIL - F.S.F. | BRIDGE NO. |
| CHECK - F.S.F. | | STATE HIGHWAY COMMISSION |
| | | BRIDGE DIVISION |
| <p>STILLWATER AVE. BRIDGE OVER INTERSTATE 95 IN THE TOWN OF ORONO PENOBSCOT COUNTY ABUTMENT NO. 1</p> | | |
| SHEET 5 OF 17 AUGUSTA, MAINE FEB. 1964 | | |

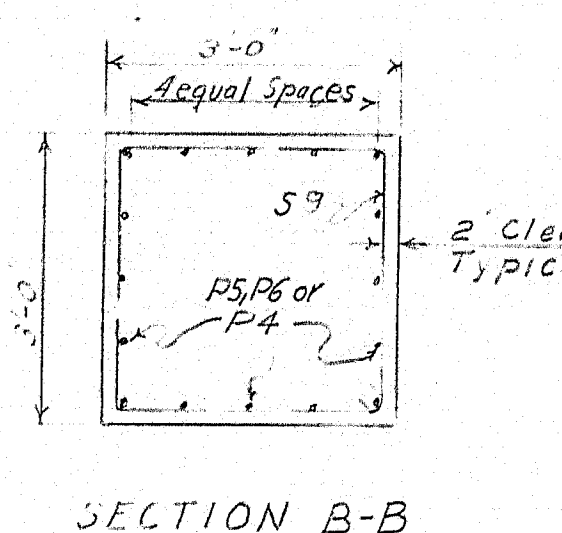
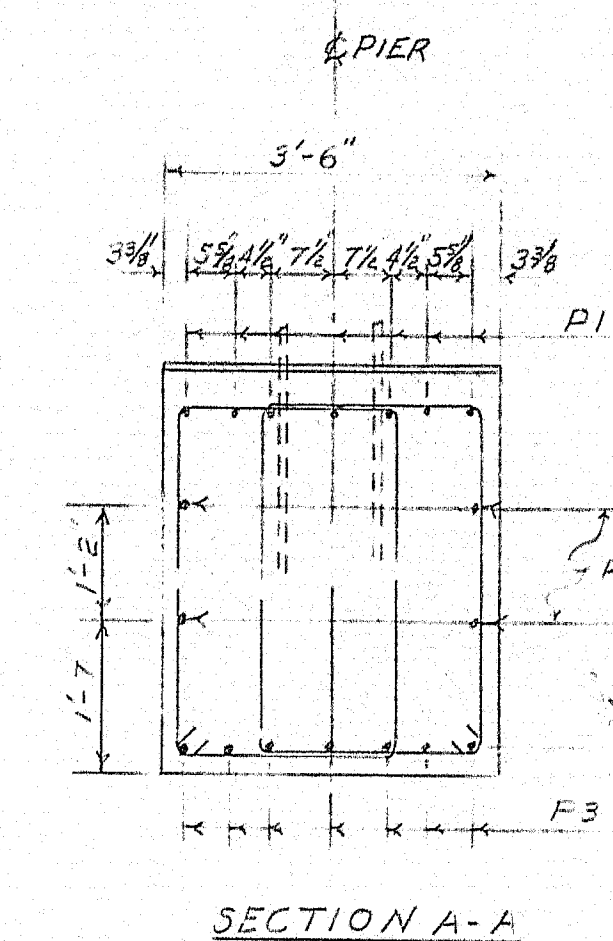
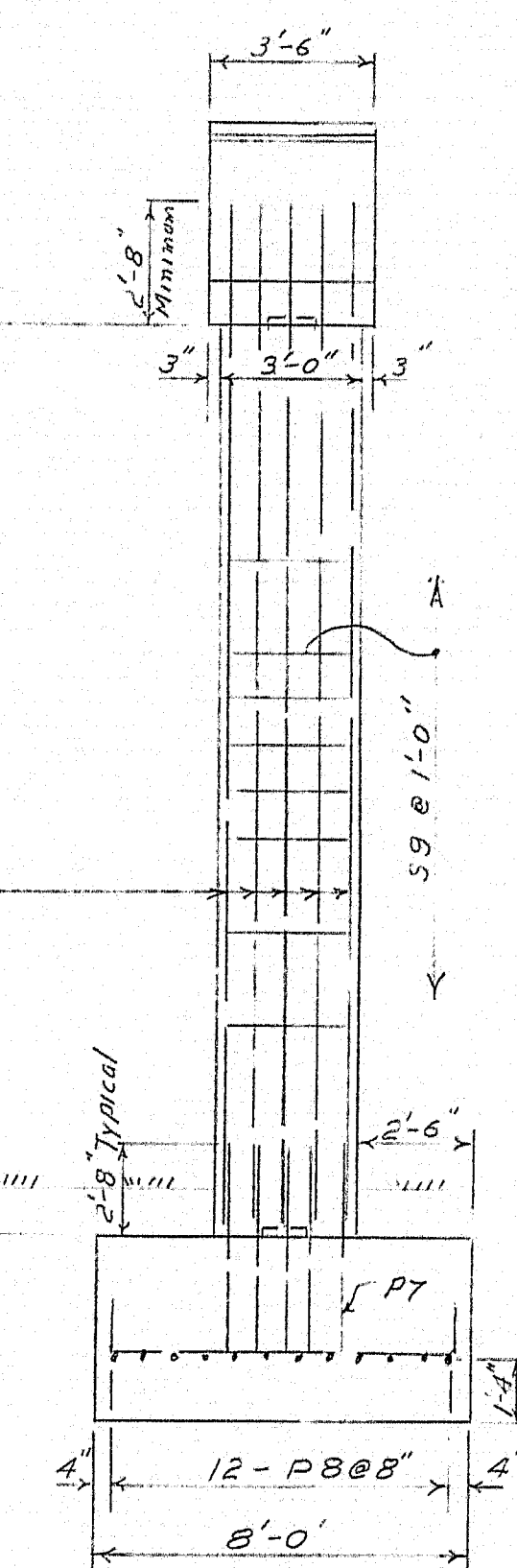
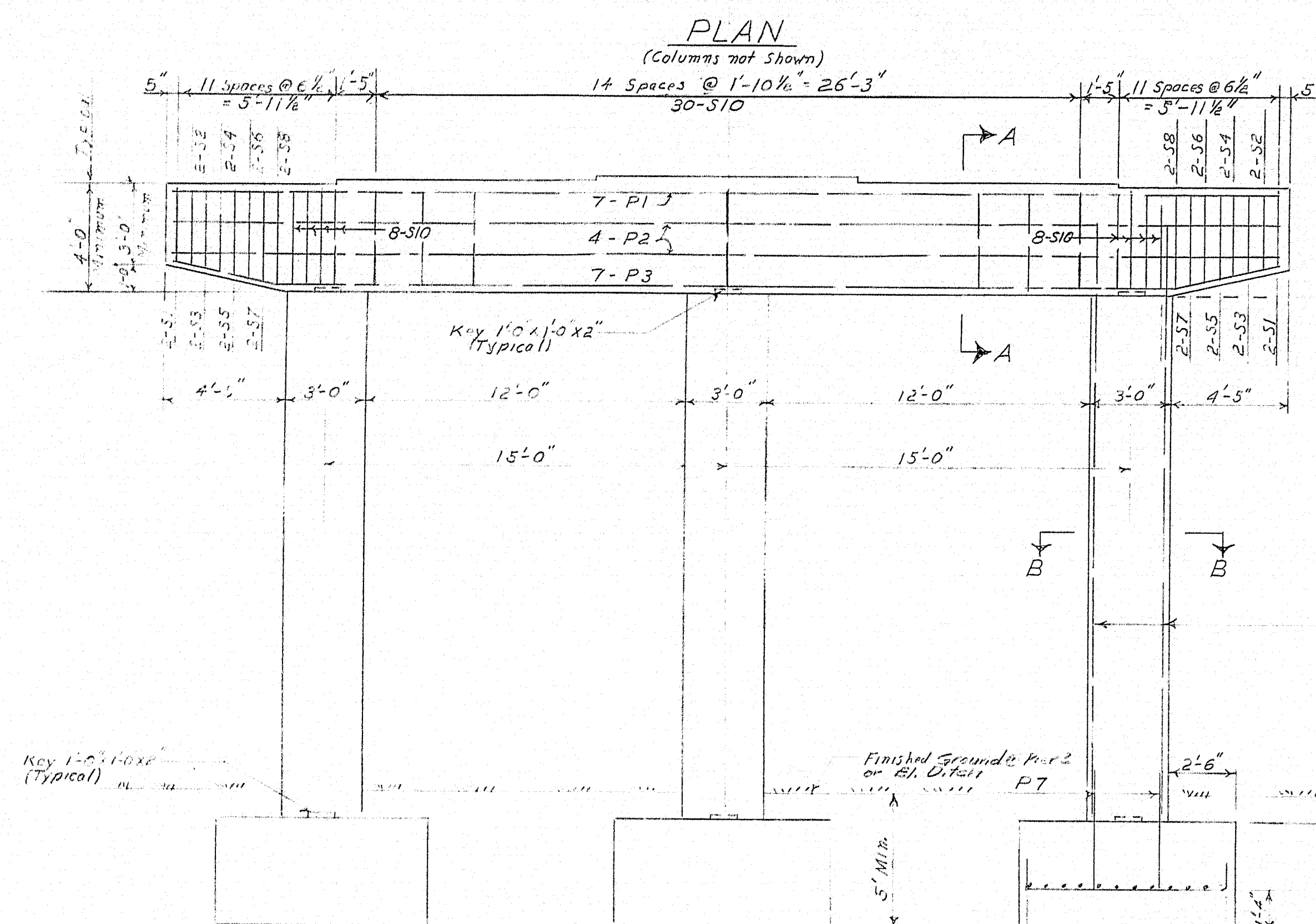
M-2116





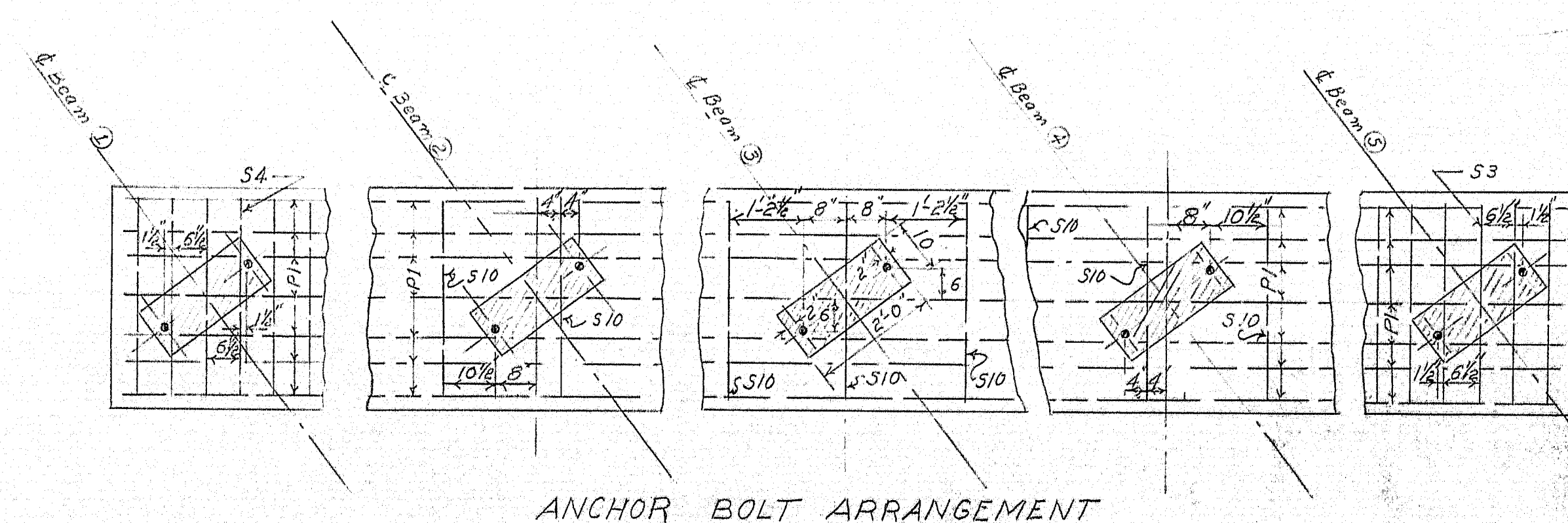
| BEARING ELEVATIONS | | | |
|--------------------|---------|---------|---------|
| BEAM | PIER #1 | PIER #2 | PIER #3 |
| ① | 156.46 | 156.35 | 156.82 |
| ② | 156.61 | 156.33 | 156.04 |
| ③ | 156.76 | 156.71 | 156.25 |
| ④ | 156.38 | 156.57 | 156.13 |
| ⑤ | 156.41 | 156.42 | 156.02 |

| TABLE A | | | | |
|---------|-------------|-------------|---------------|---------------------------|
| PIER | ELEVATION A | ELEVATION B | COLUMN HEIGHT | NUMBER S9 BARS PER COLUMN |
| #1 | 152.25 | 152.41 | 23.38 | 24 |
| #2 | 135.11 | 152.35 | 17.24 | 18 |
| #3 | 152.95 | 151.82 | 22.00 | 22 |



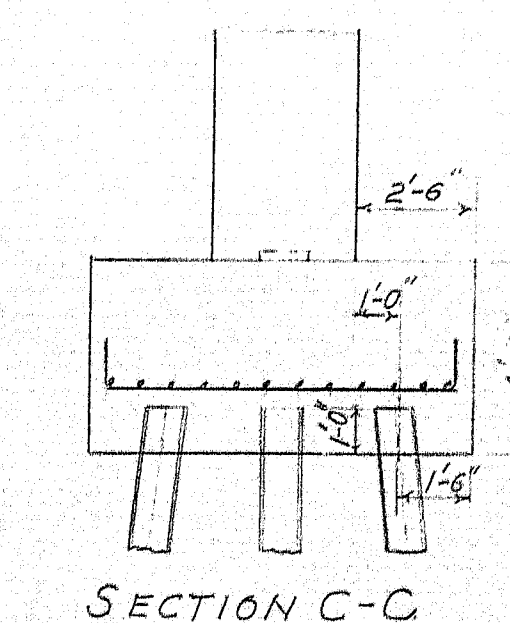
NOTES:
 1. Less bearing areas 1' larger, all around, than masonry plates, to exact elevations shown.
 2. Reinforcing steel to have 2" minimum cover unless otherwise shown.

PILES:
 10" x 10" x 42" Steel H Piles, 54 Piles Required.
 18 Piles each pier.
 Pier #1, Estimated length = 25 feet
 Pier #2, Estimated length = 25 feet
 Pier #3, Estimated length = 25 feet
 Max. Pile Load 3" Tons
 Piles shown thus 1" to be battered 2 1/2" per foot in the direction indicated by arrow.



SIDE ELEVATION

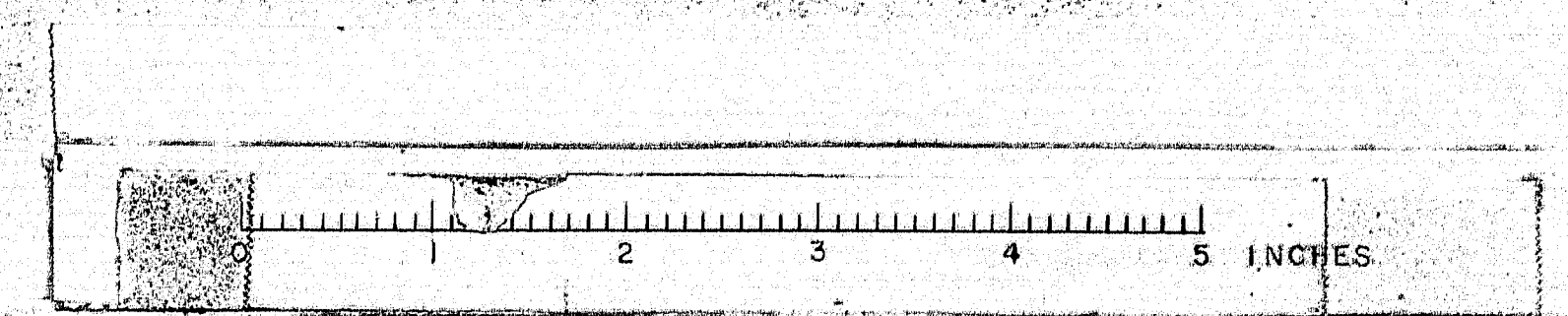
HALF PILE PLAN
TYPICAL PIER



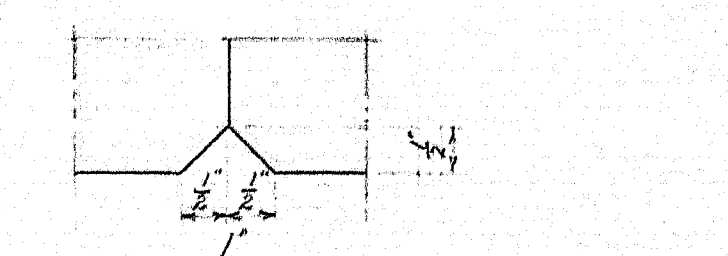
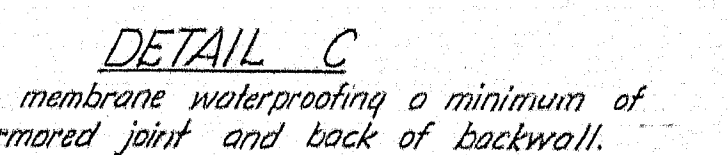
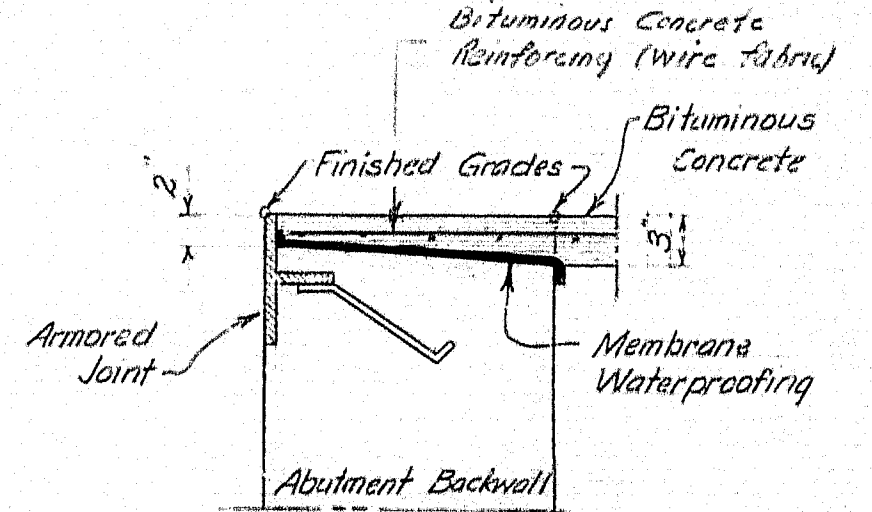
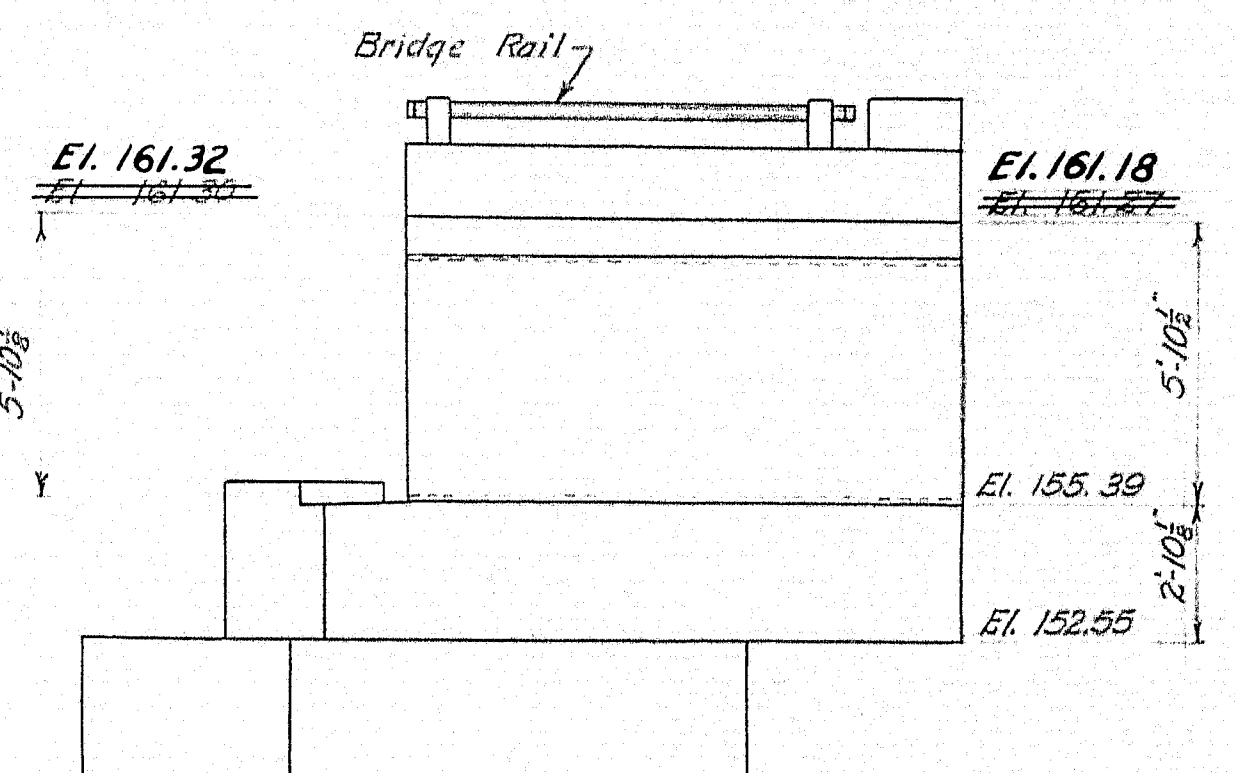
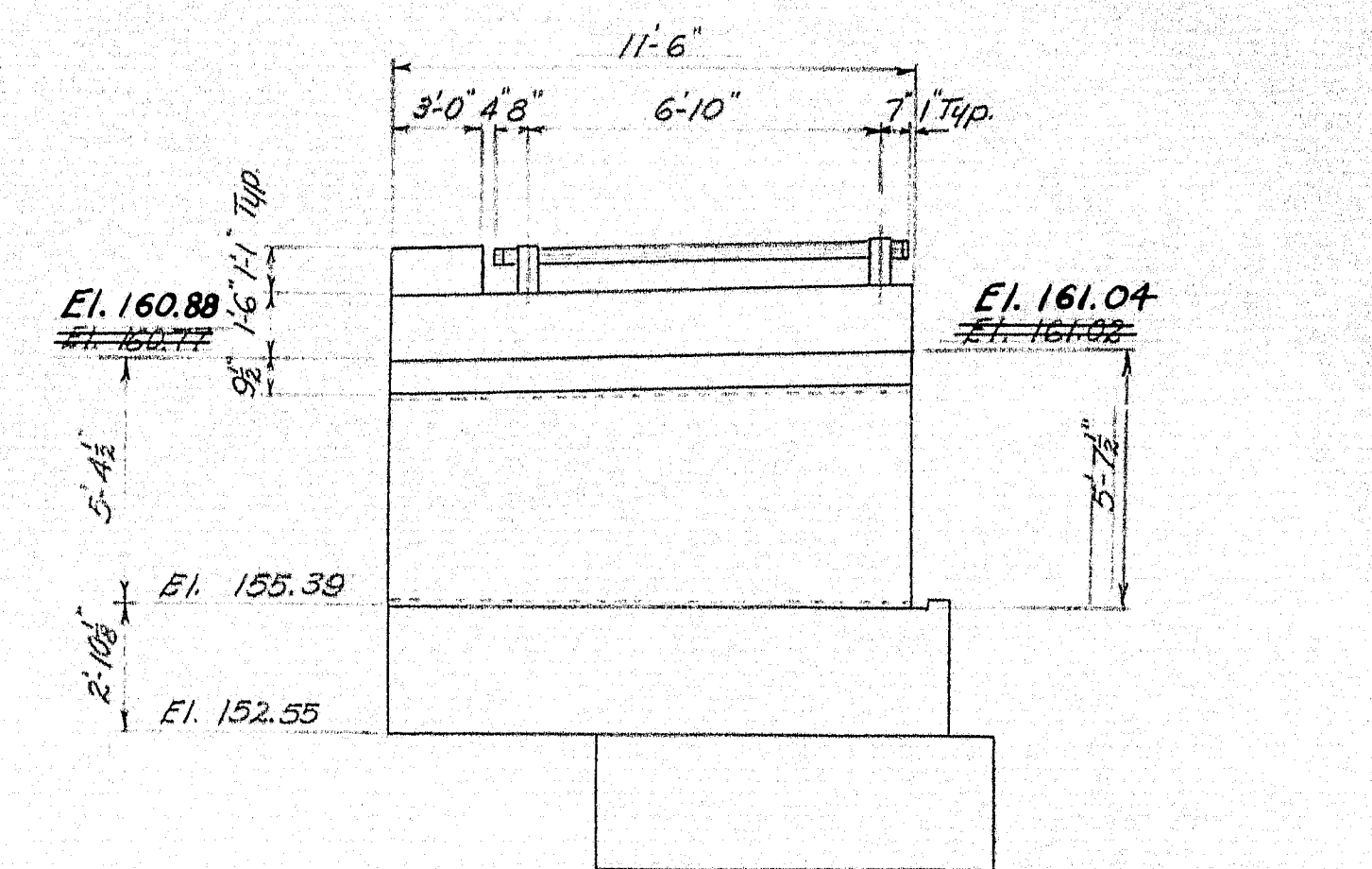
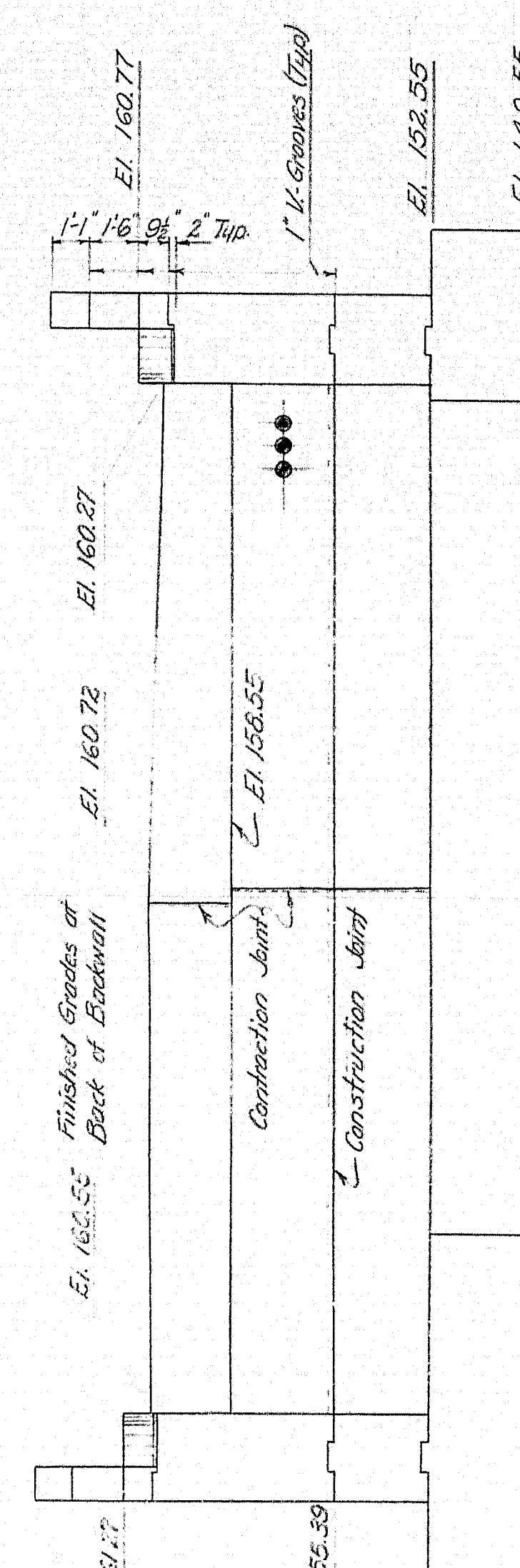
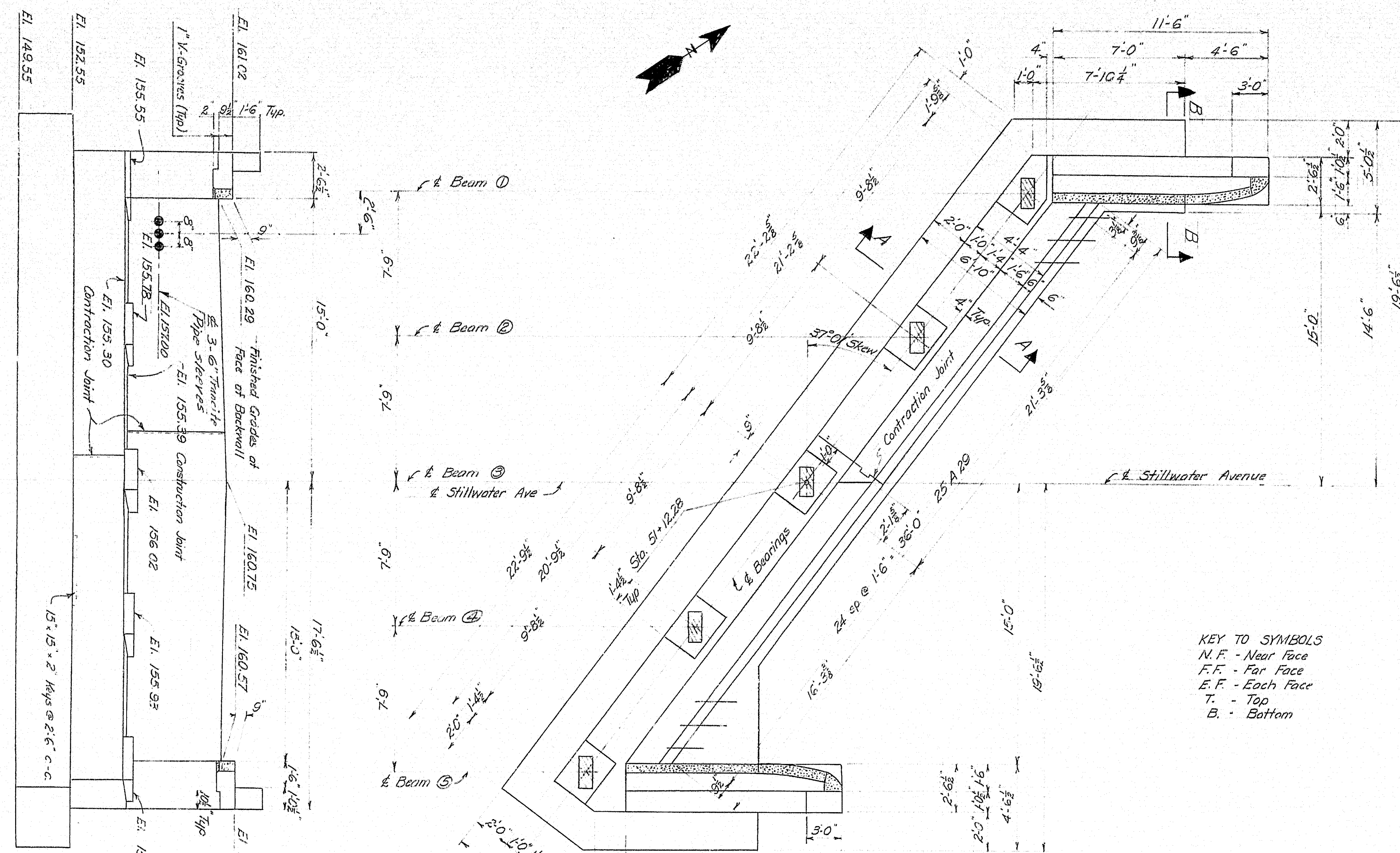
DESIGN - W.H. TRACE - E.H. CHECK - C.H. DETAIL - P.H. BRIDGE NO. SURVEY PLOT -
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
STILLWATER AVE. BRIDGE
 OVER
INTERSTATE 95
 IN THE TOWN OF
ORONO
PENOBSCOT COUNTY
PIERS

SHEET 6 OF 17 AUGUSTA, MAINE FEB. 1964

M-2117



| B. P. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|----------------------|-------|----------------|--------------|-----------------|
| 1 | MAINE | I-95-8 (1) | 18 | 115 |



STATE HIGHWAY COMMISSION
BRIDGE DIVISION

STILLWATER AVE. BRIDGE

OVER

INTERSTATE 95

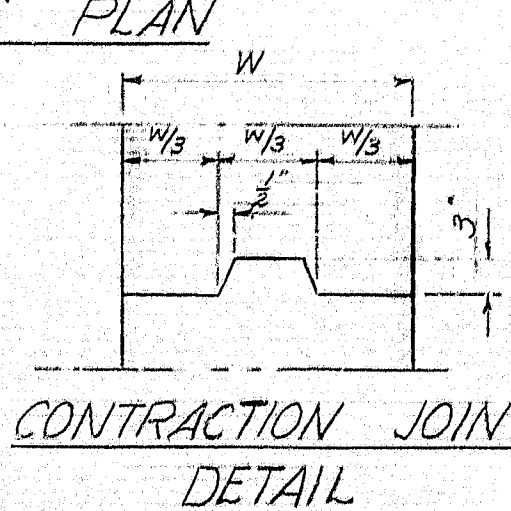
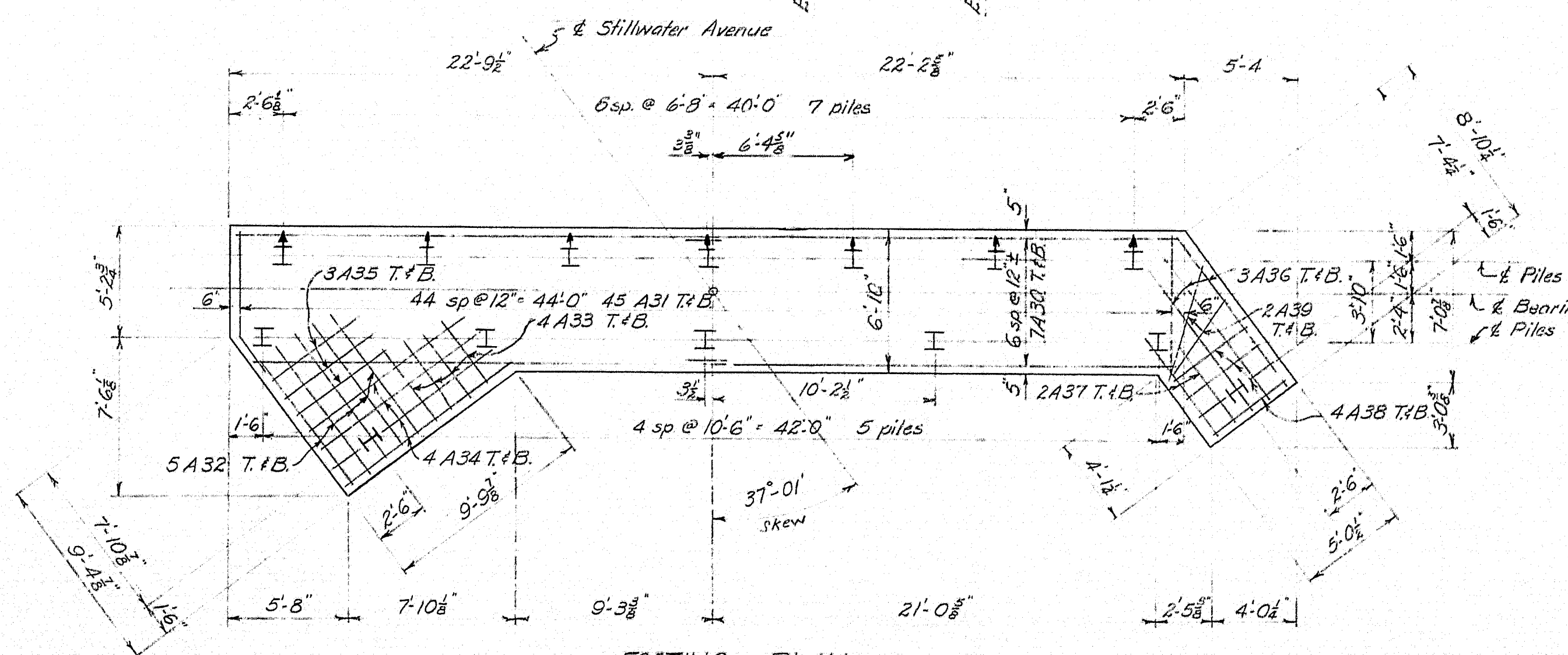
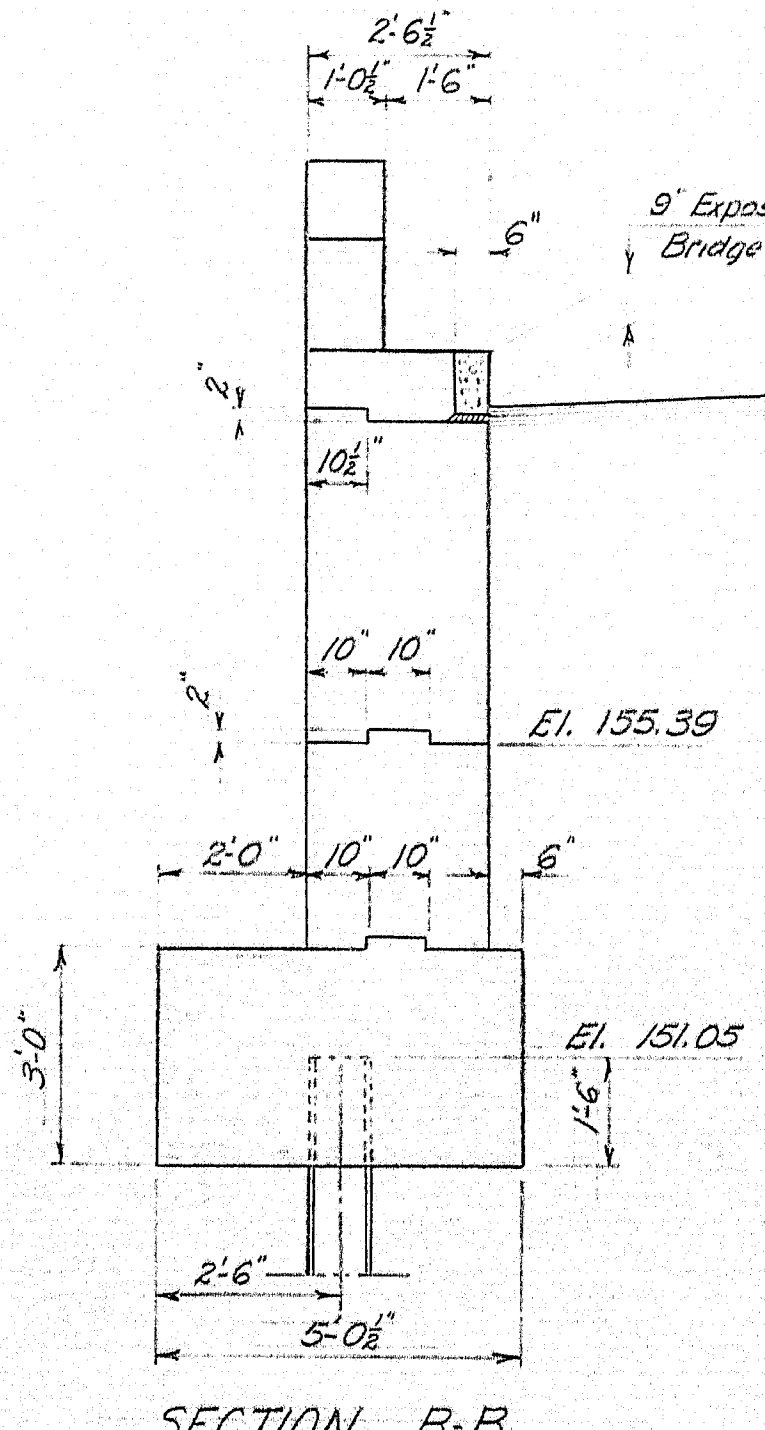
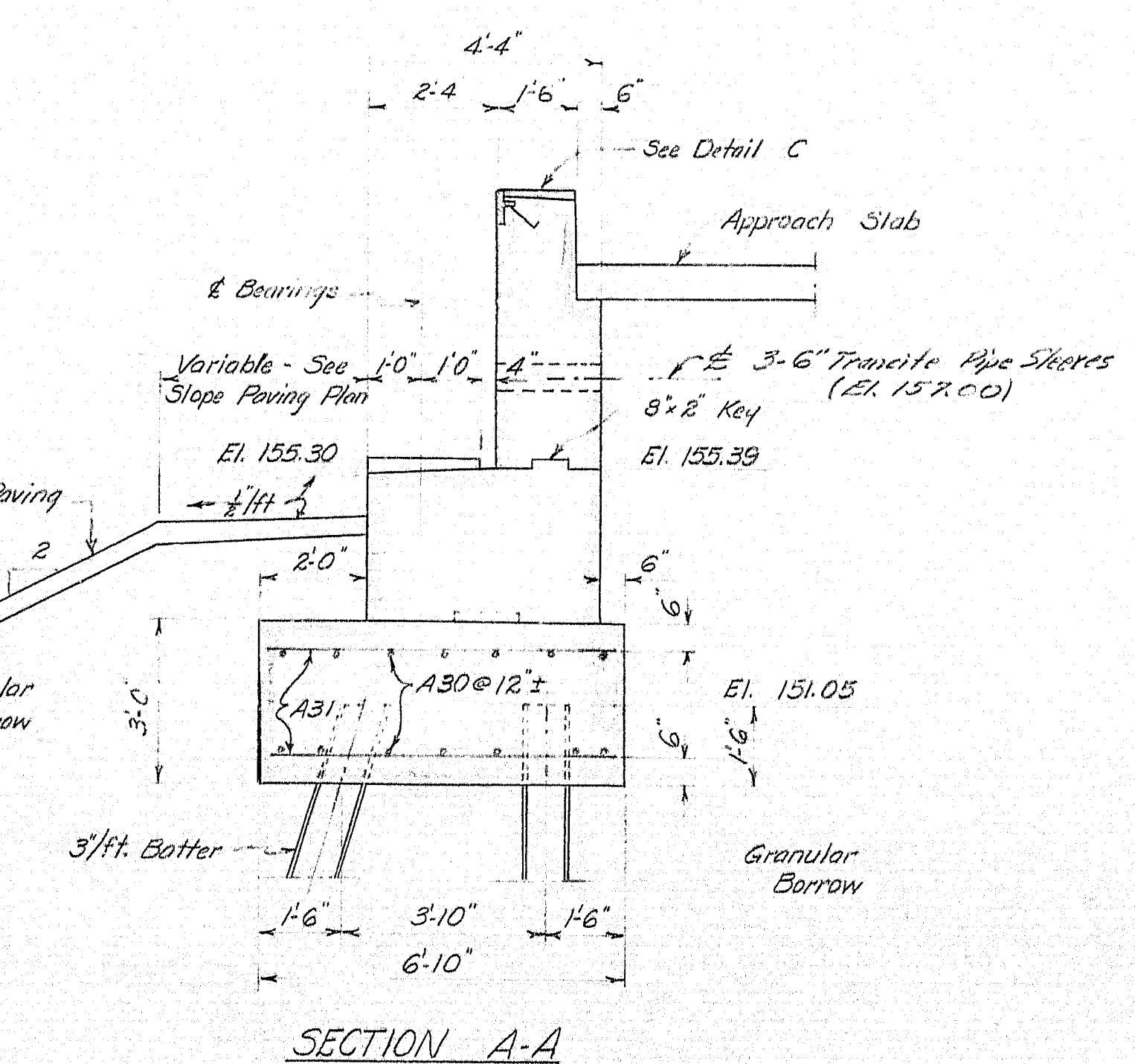
IN THE TOWN OF

ORONO

PENOBSCOT COUNTY

ABUTMENT NO. 2

SHEET 7 OF 17 AUGUSTA, MAINE FEB. 1964



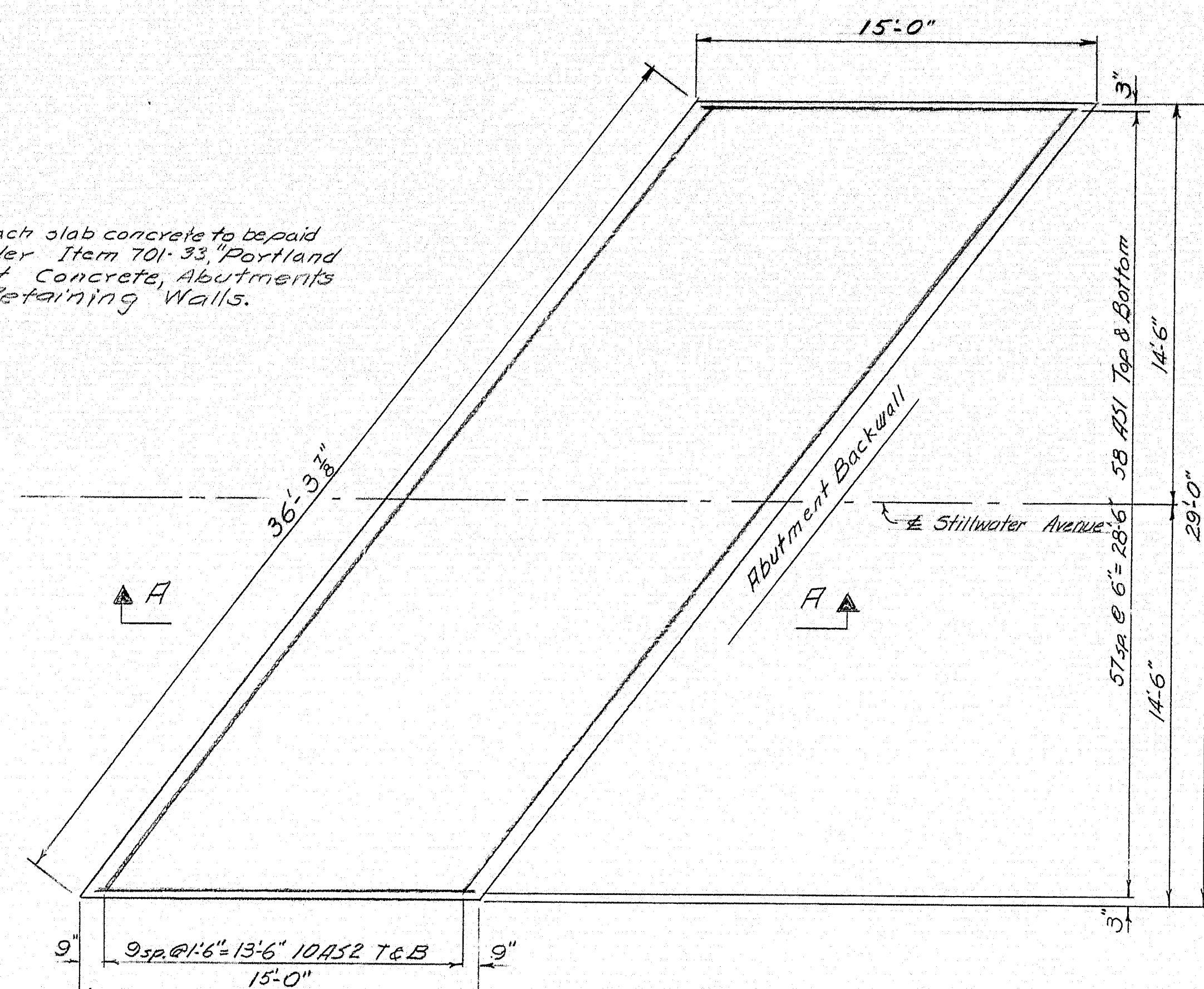
PILE NOTES:

1. Fourteen (14) 10 BP42 steel H-piles required.
2. Maximum pile load = 37 tons.
3. Piles to be driven to ledge or practical refusal to develop and bearing.
4. Piles marked H+ to be battered 3" inches per foot in direction of arrow.
5. Estimated length of piles

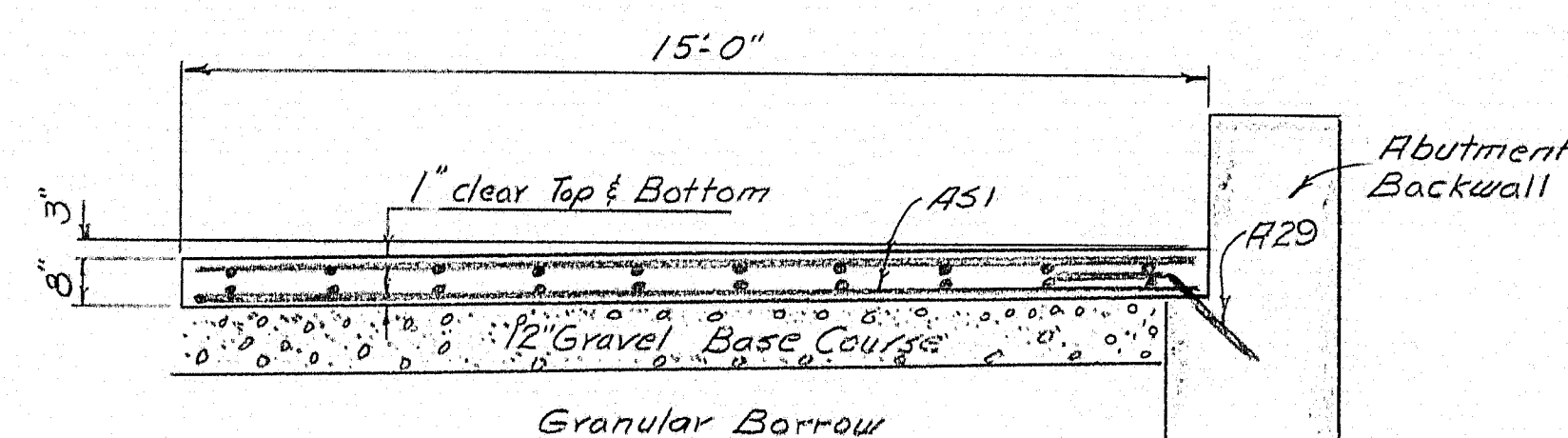
| |
|-----------------|
| 7 @ 50' (Left) |
| 7 @ 55' (Right) |

Note:

Approach slab concrete to be paid for under Item 701.33, Portland Cement Concrete, Abutments and Retaining Walls.

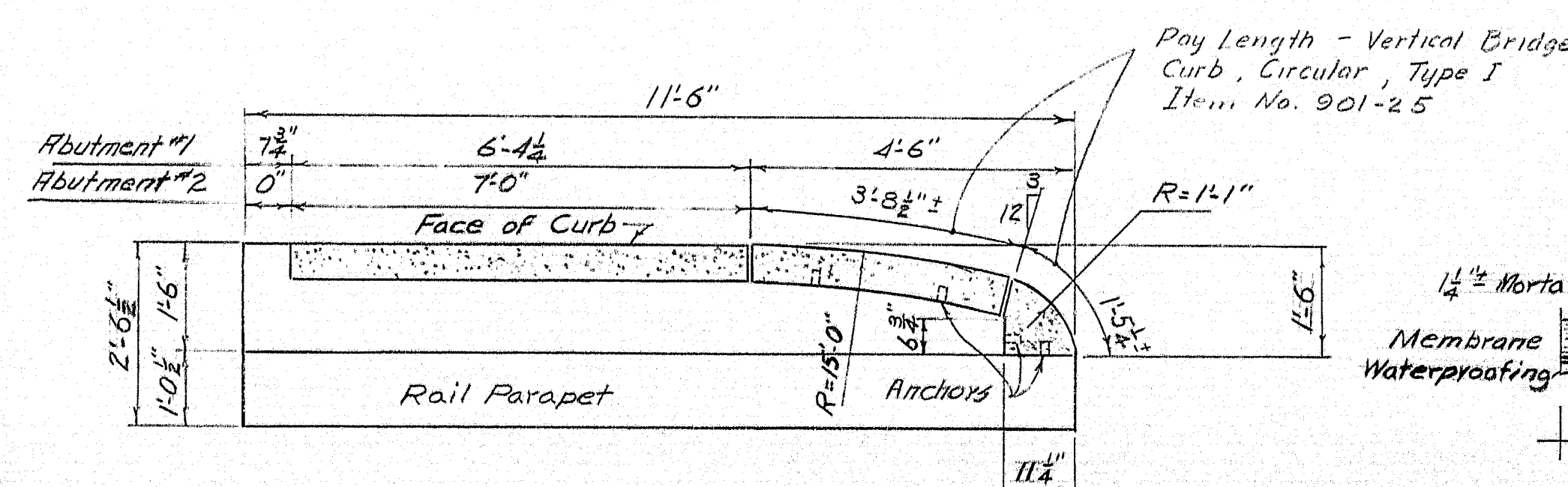


PLAN



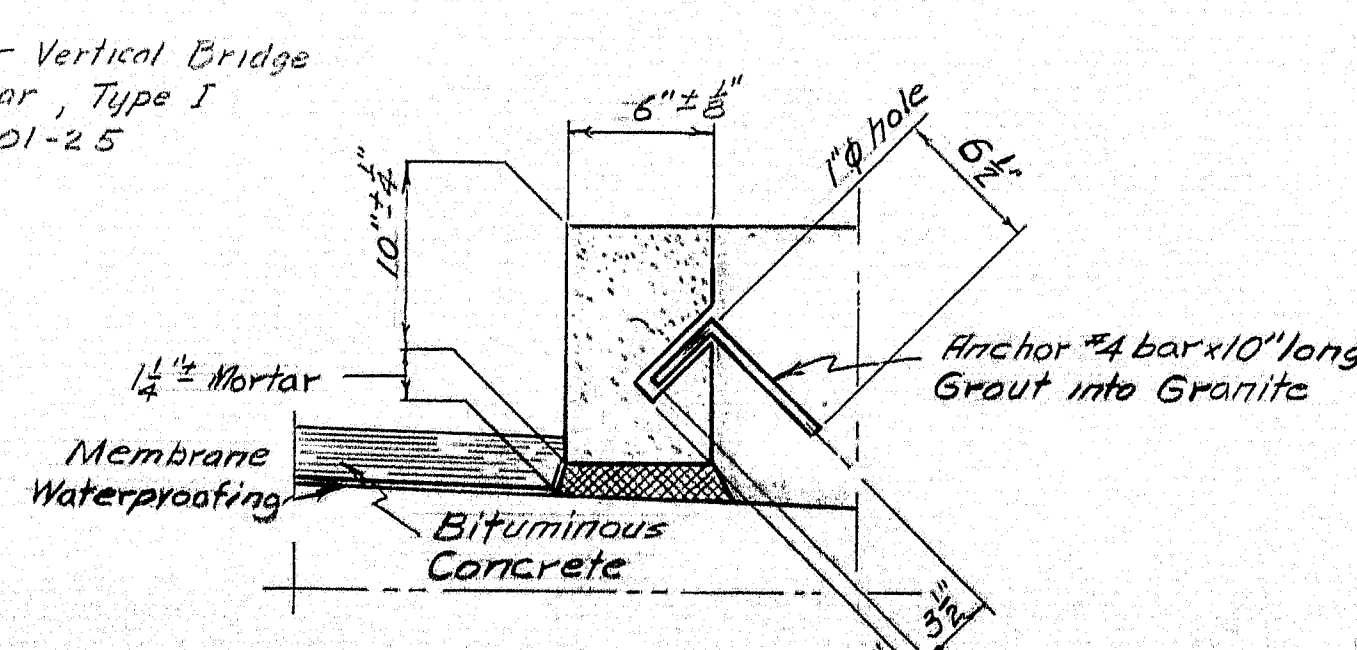
SECTION A-A

APPROACH SLAB DETAILS
Abutment #1 shown Rotate 180° for Abutment #2

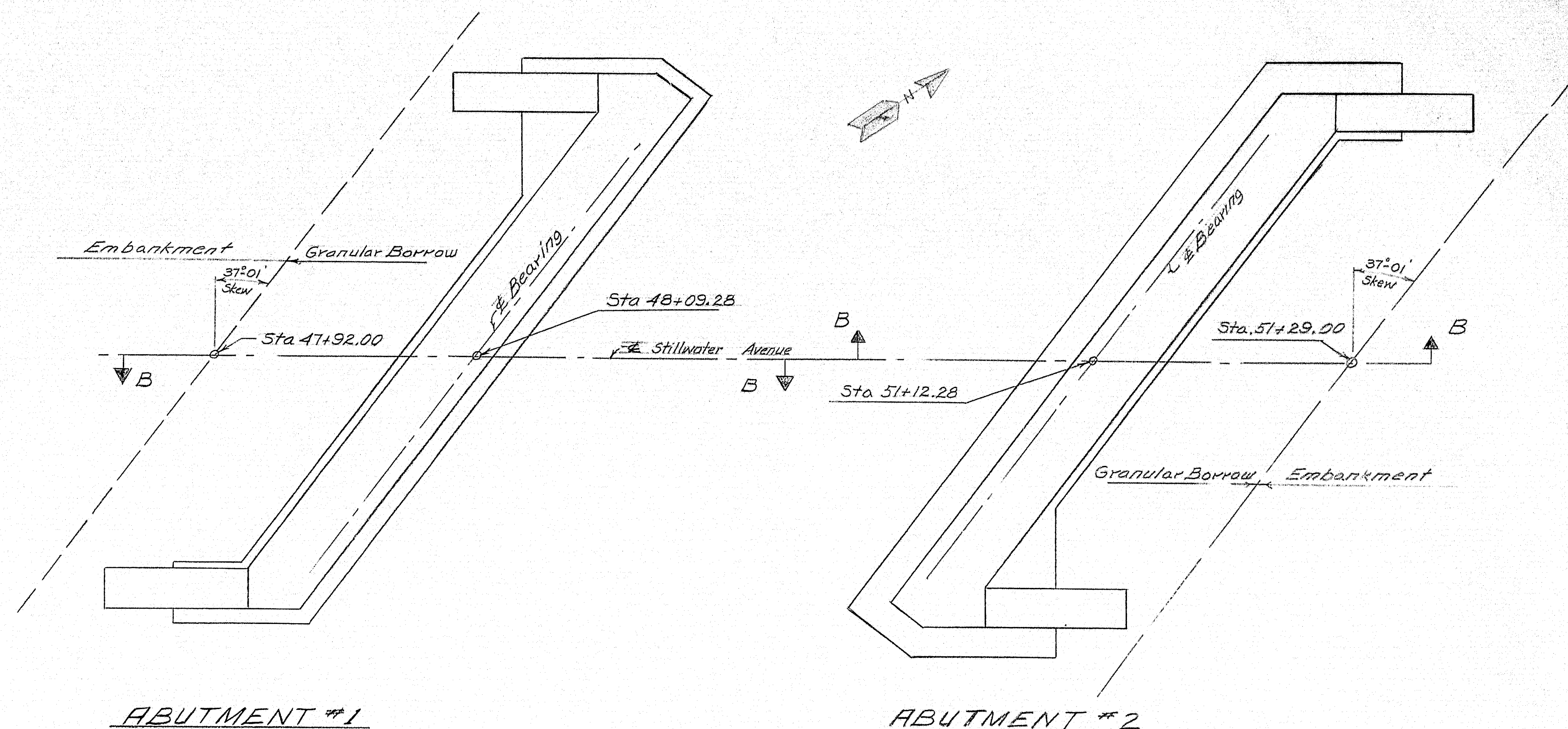


AT ABUTMENT WINGS

VERTICAL BRIDGE CURB, TYPE I

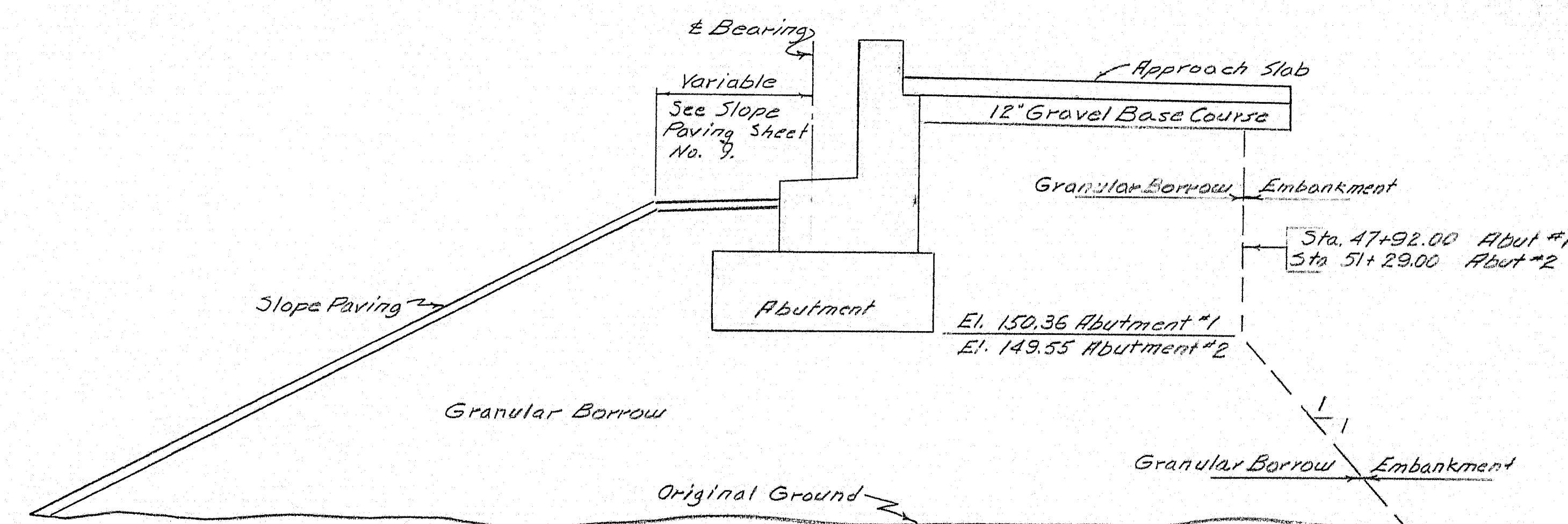


TYPICAL SECTION



ABUTMENT #1

ABUTMENT #2



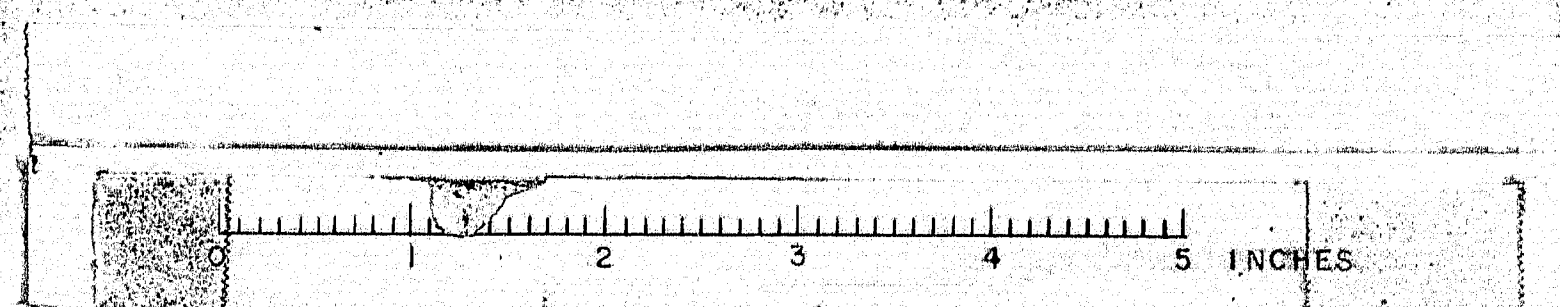
SECTION B-B

GRANULAR BORROW AT ABUTMENTS

- Notes
1. All fill within suit of Abutments shall be placed by the Controlled Density Method.
 2. Stone size in the granular borrow, through which the abutment piles are to be driven, shall not exceed six (6) inches. There shall be no concentration of stones in this area.
 3. Place granular borrow to elevation of abutment footings before driving piles.

| | | |
|--|---------------|------------|
| DESIGN- W.B.H. | DETAIL-H.N.F. | BRIDGE NO. |
| TRACE- W.B.H. | SURVEY- PLOT | |
| CHECK- W.B.H. | | |
| STATE HIGHWAY COMMISSION BRIDGE DIVISION | | |
| STILLWATER AVE. BRIDGE OVER INTERSTATE 95 IN THE TOWN OF ORONO PENOBSCOT COUNTY | | |
| APPROACH SLAB, VERTICAL BRIDGE CURB & GRANULAR BORROW LIMITS | | |
| SHEET 8 OF 17 AUGUSTA, MAINE FEB. 1964 | | |

M-2119



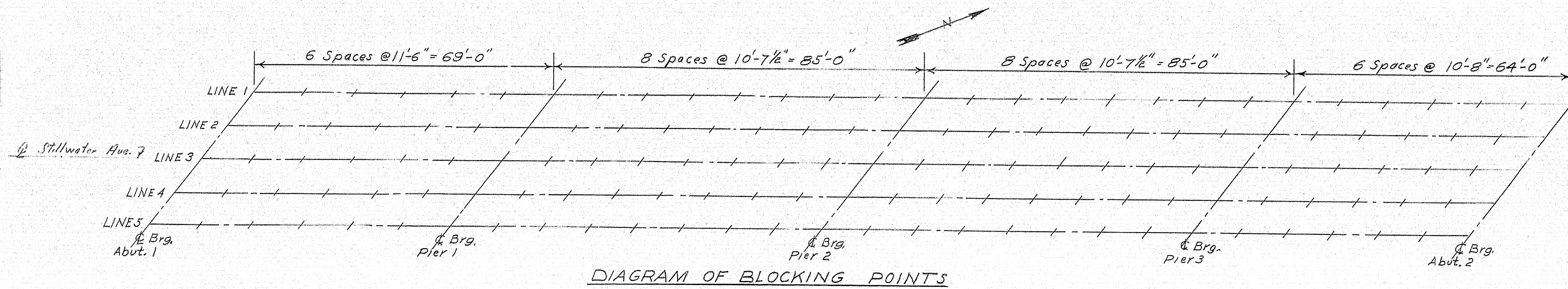
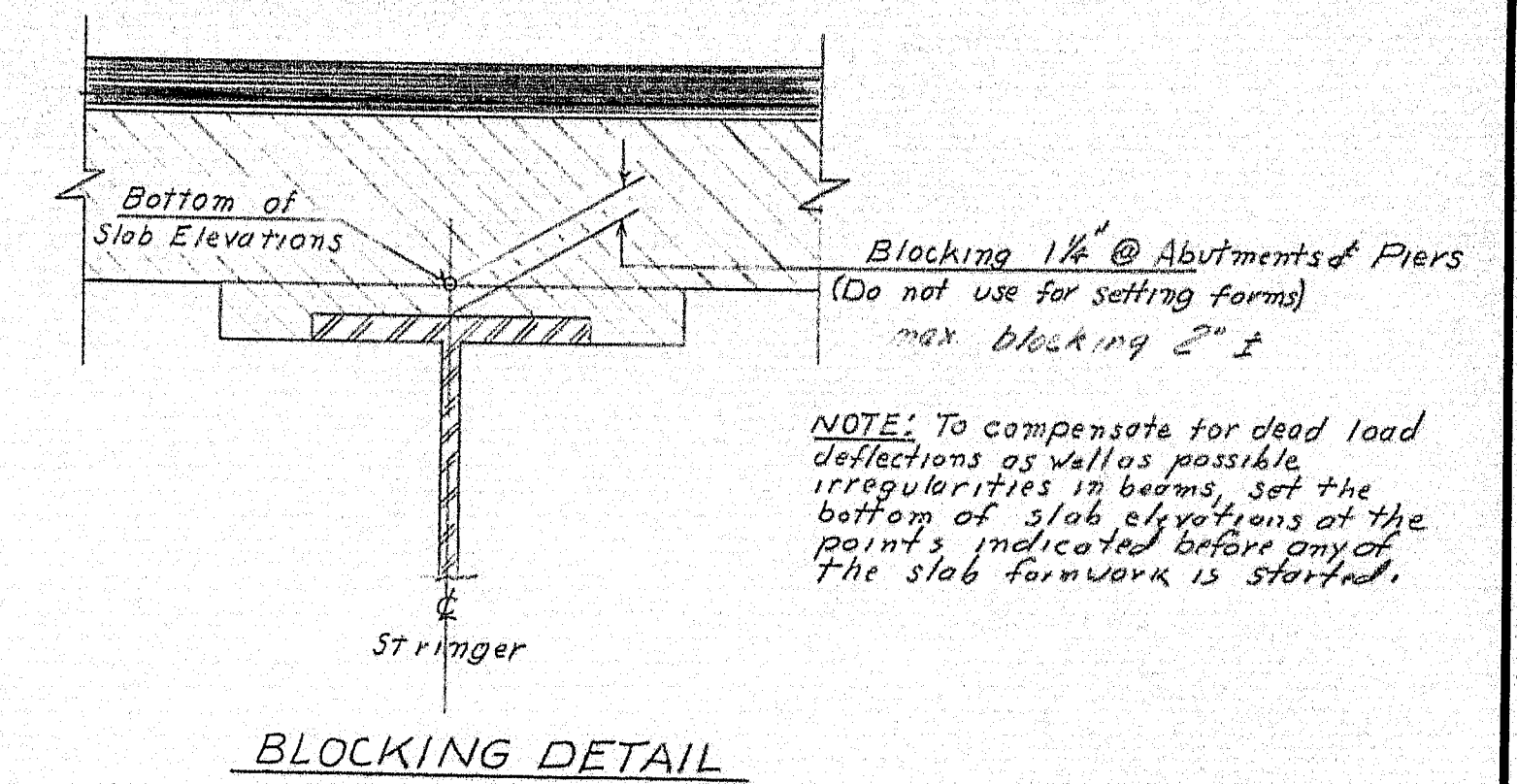
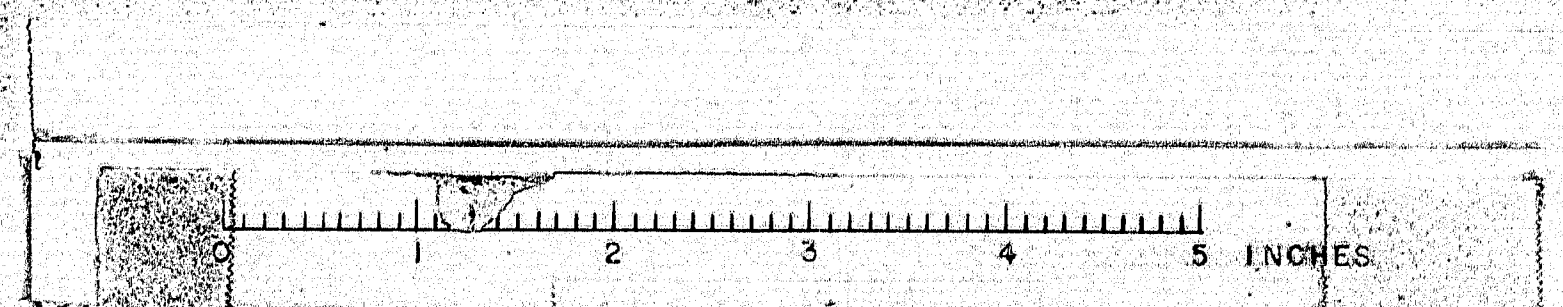


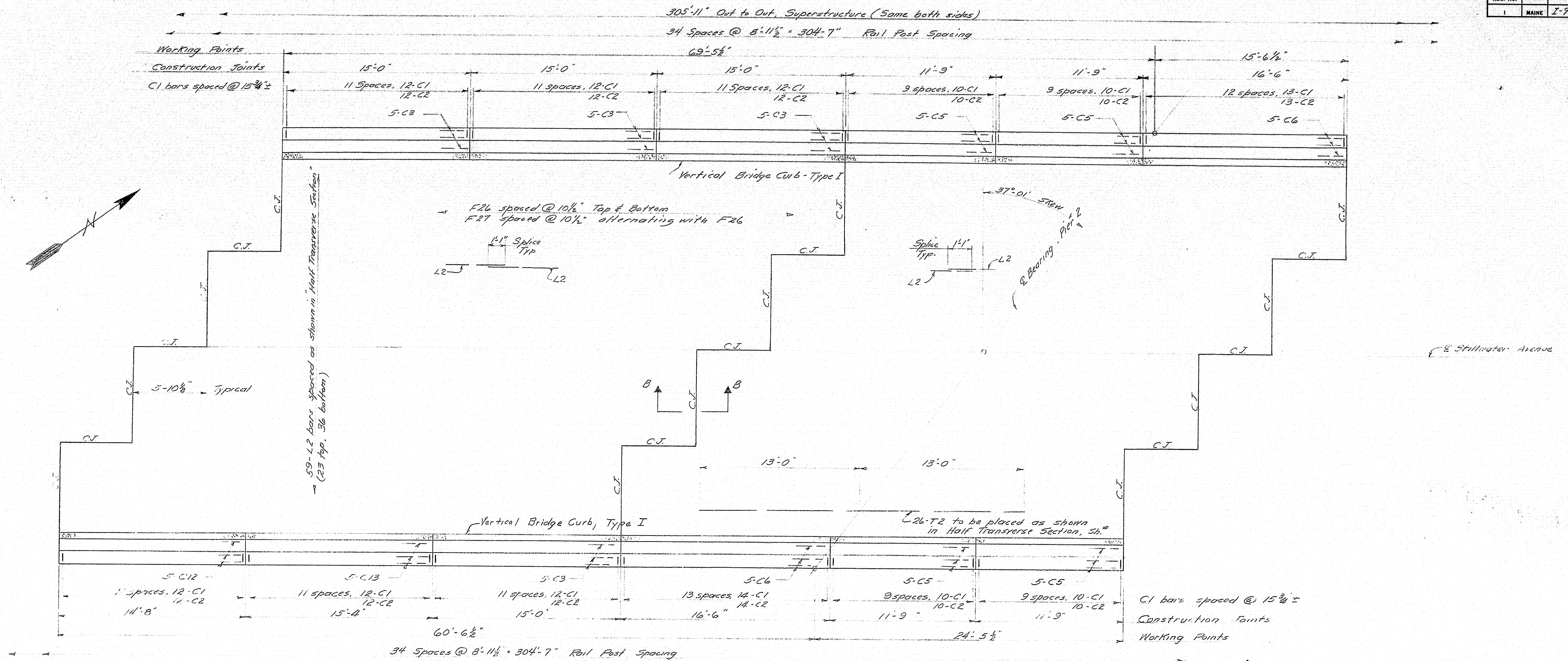
DIAGRAM OF BLOCKING POINTS

| BOTTOM OF SLAB ELEVATIONS AT BLOCKING POINTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|---------|---------|---------|---------|---------|------------------|-------------|---------|--------------|---------|-------------|------------------|-------------|--------|-------------|---------|--------------|------------------|-------------|---------|-------------|--------|---------|-----------------|---------|---------|---------|--------|
| | ¢ Brg. Abut. 1 | SPAN 1 | | | | | ¢ Brg. Pier 1 | SPAN 2 | | | | | ¢ Brg. Pier 2 | SPAN 3 | | | | | ¢ Brg. Pier 3 | SPAN 4 | | | | | ¢ Brg. Abut. | | | | |
| | | +11'-6" | +23'-0" | +34'-6" | +46'-0" | +57'-6" | | +10'-7 1/2" | +21'-3" | +31'-10 1/2" | +42'-6" | +53'-1 1/2" | +63'-9" | +74'-4 1/2" | | +10'-7 1/2" | +21'-3" | +31'-10 1/2" | +42'-6" | +53'-1 1/2" | +63'-9" | +74'-4 1/2" | | +10'-8" | +21'-4" | +32'-0" | +42'-8" | +53'-4" | |
| LINE 1 | 160.60 | 160.69 | 160.77 | 160.81 | 160.83 | 160.84 | 160.85 | 160.87 | 160.89 | 160.91 | 160.90 | 160.88 | 160.84 | 160.78 | 160.75 | 160.71 | 160.68 | 160.65 | 160.59 | 160.51 | 160.41 | 160.31 | 160.20 | 160.11 | 160.02 | 159.92 | 159.80 | 159.66 | 159.50 |
| LINE 2 | 160.73 | 160.82 | 160.90 | 160.95 | 160.97 | 160.98 | 161.00 | 161.02 | 161.05 | 161.07 | 161.07 | 161.05 | 161.01 | 160.97 | 160.93 | 160.90 | 160.87 | 160.84 | 160.78 | 160.71 | 160.62 | 160.51 | 160.42 | 160.32 | 160.24 | 160.14 | 160.03 | 159.89 | 159.73 |
| LINE 3 | 160.85 | 160.95 | 161.03 | 161.09 | 161.12 | 161.13 | 161.15 | 161.17 | 161.21 | 161.23 | 161.24 | 161.22 | 161.19 | 161.15 | 161.11 | 161.08 | 161.06 | 161.03 | 160.98 | 160.91 | 160.82 | 160.72 | 160.63 | 160.54 | 160.46 | 160.36 | 160.25 | 160.12 | 159.97 |
| LINE 4 | 160.65 | 160.76 | 160.84 | 160.90 | 160.93 | 160.95 | 160.97 | 161.00 | 161.04 | 161.07 | 161.08 | 161.06 | 161.04 | 161.00 | 160.97 | 160.94 | 160.93 | 160.90 | 160.85 | 160.79 | 160.70 | 160.60 | 160.51 | 160.43 | 160.35 | 160.26 | 160.15 | 160.02 | 159.88 |
| LINE 5 | 160.45 | 160.56 | 160.65 | 160.71 | 160.74 | 160.77 | 160.80 | 160.83 | 160.87 | 160.90 | 160.91 | 160.91 | 160.88 | 160.85 | 160.82 | 160.80 | 160.79 | 160.76 | 160.72 | 160.66 | 160.58 | 160.48 | 160.40 | 160.32 | 160.24 | 160.16 | 160.05 | 159.93 | 159.78 |

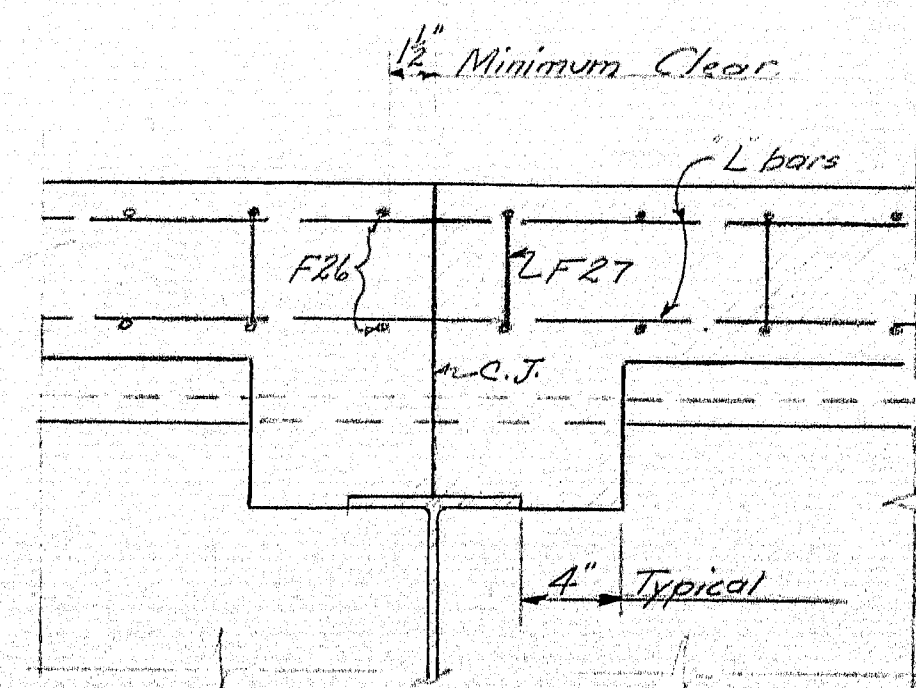


| | | |
|---|--------------|------------|
| DESIGN - WBN | DETAIL - EBN | BRIDGE NO. |
| TRACE - EBN | SURVEY - | PLOT - |
| CHECK - M. W. W. | | |
| STATE HIGHWAY COMMISSION BRIDGE DIVISION | | |
| STILLWATER AVE. BRIDGE | | |
| OVER | | |
| INTERSTATE 95 | | |
| IN THE TOWN OF | | |
| ORONO | | |
| PENOBSCOT COUNTY | | |
| BLOCKING TABLE | | |
| SHEET 12 OF 17 AUGUSTA, MAINE FEB. 1964 | | |

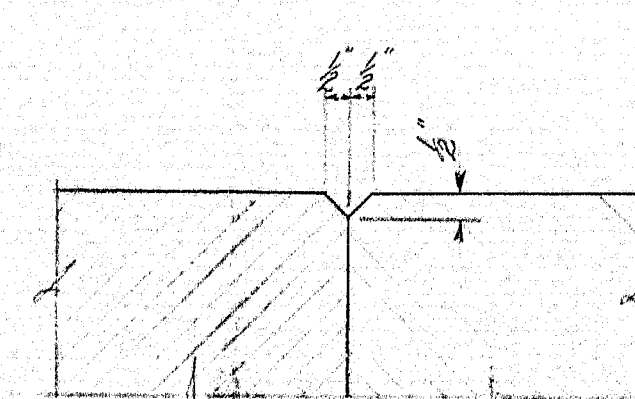




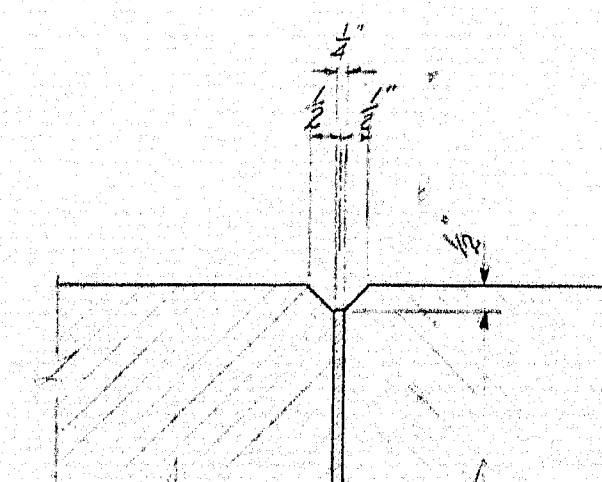
PARTIAL PLAN



SECTION B-B
 Typical for all slab Construction Joints.



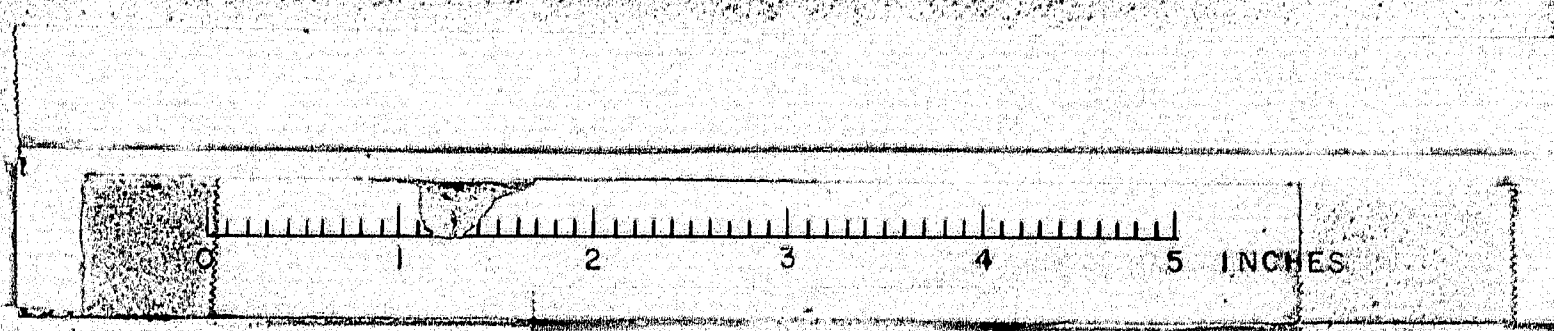
1" V-GROOVE

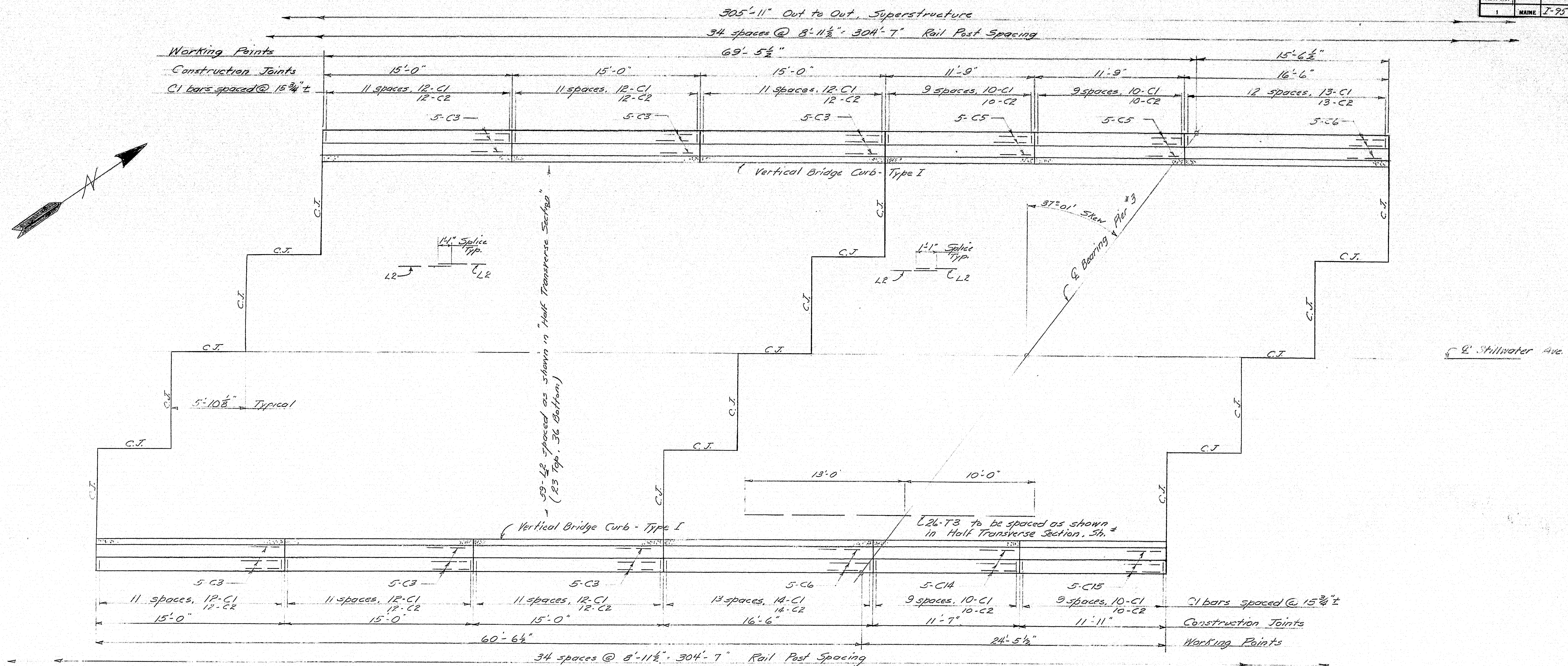


Note: Work this sheet with Sheet Nos. 13, 15, 16.

| | | |
|---|--------------------------------|--------------------------------|
| DESIGN-WBH TRACE- CHECK- PLOT- | DETAIL-PLA SURVEY- PLOT- | BRIDGE NO. SURVEY- PLOT- |
| STATE HIGHWAY COMMISSION BRIDGE DIVISION | | |
| STILLWATER AVE. BRIDGE | | |
| OVER | | |
| INTERSTATE 95 | | |
| IN THE TOWN OF | | |
| ORONO | | |
| PENOBSCOT COUNTY | | |
| SUPERSTRUCTURE - 2 | | |
| SHEET 14 OF 17 AUGUSTA, MAINE FEB. 1964 | | |

M-2125



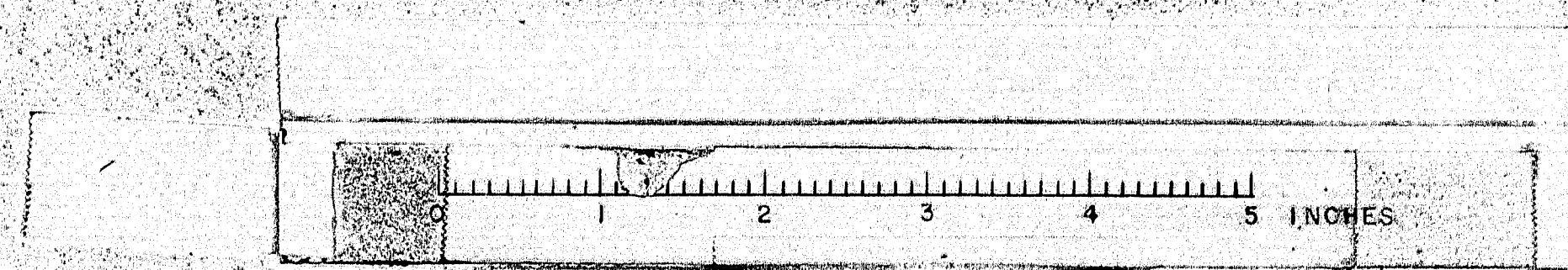


Note: Work this sheet with Sheet Nos. 13, 14, 16

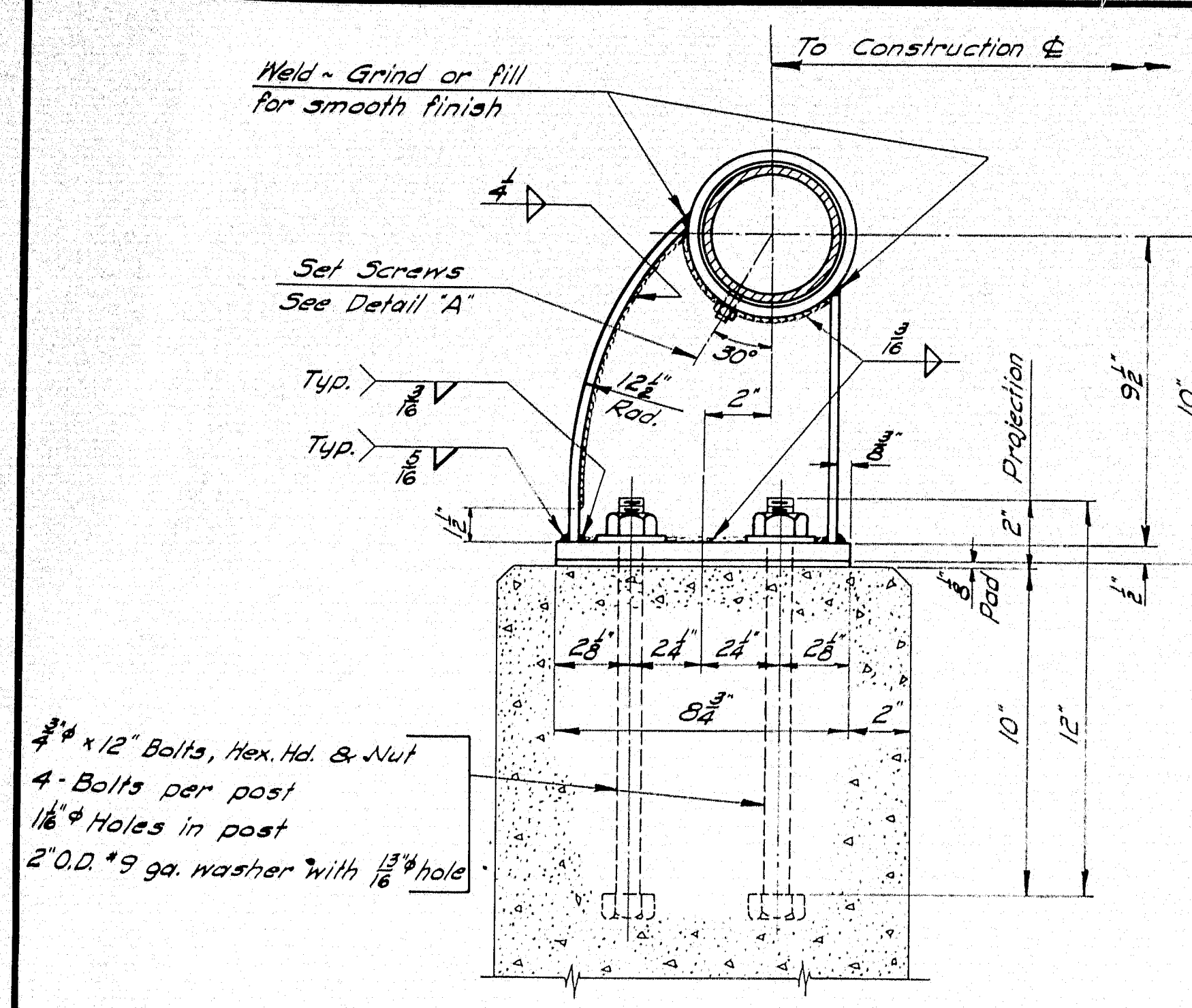
| | | |
|---|--------------------------------|--------------------|
| DESIGN-WBH TRACE- CHECK- PLOT- | DETAIL-PLA SURVEY- PLOT- | BRIDGE NO. 1248 |
| STATE HIGHWAY COMMISSION BRIDGE DIVISION | | |
| STILLWATER AVE. BRIDGE | | |
| OVER | | |
| INTERSTATE 95 | | |
| IN THE TOWN OF | | |
| ORONO | | |
| PENOBSCOT COUNTY | | |
| SUPERSTRUCTURE-3 | | |

SHEET 15 OF 17 AUGUSTA, MAINE FEB. 1964

M-2126

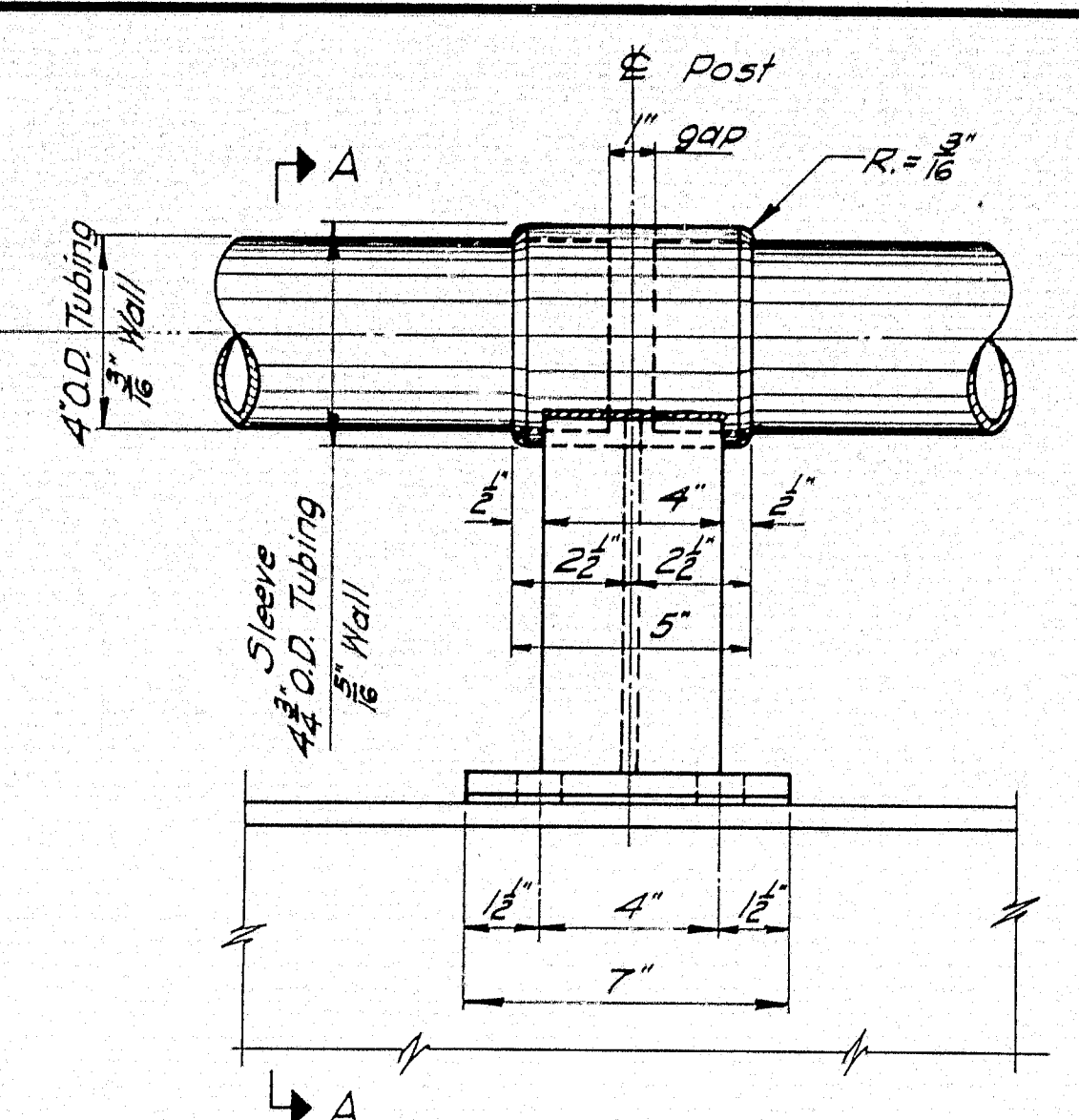


| B. R. R. REG. NO. | STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|----------------------|-------|----------------|-----------|--------------|
| 1 | MAINE | 2-95-B(1) | 30 | 115 |



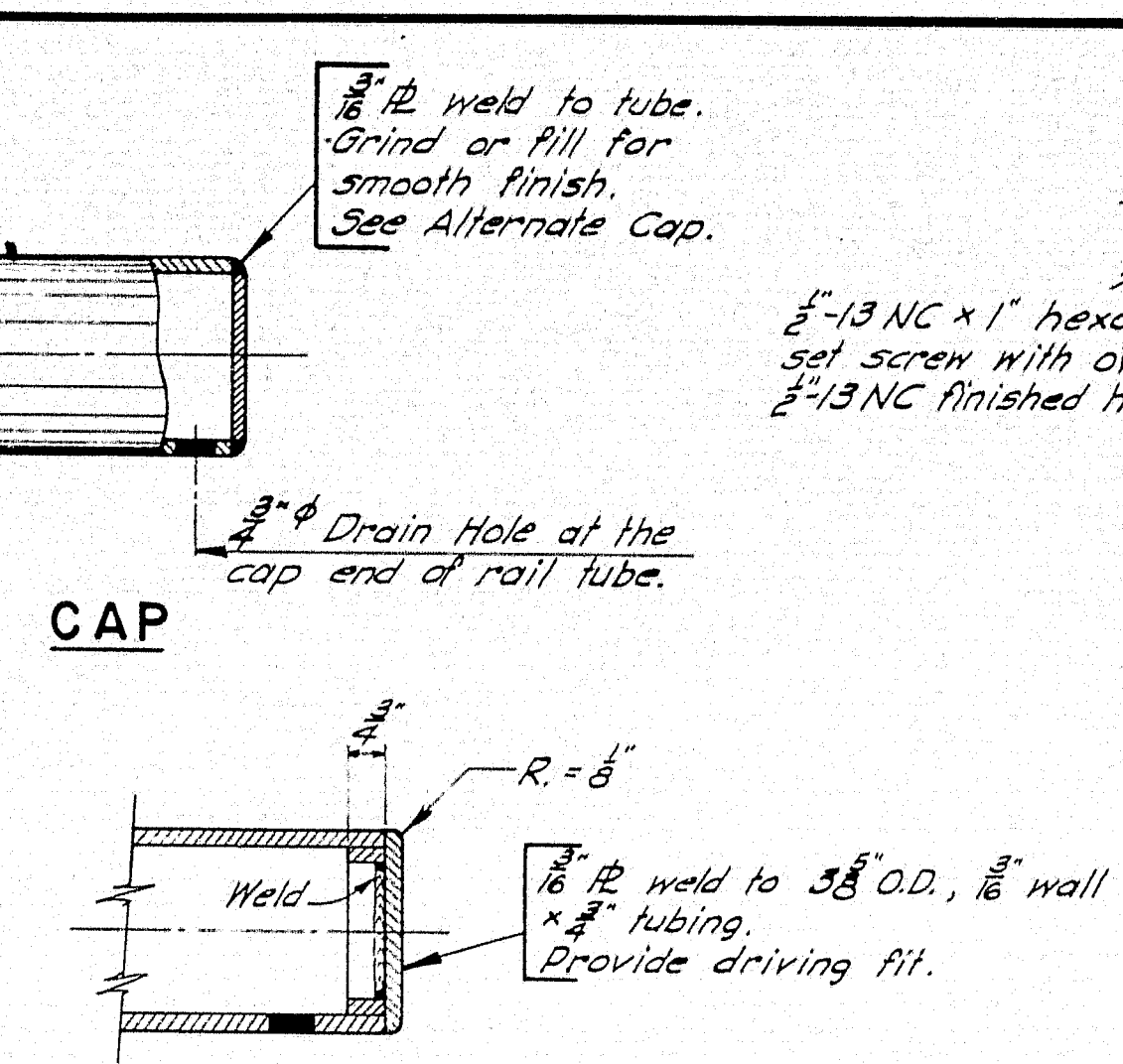
SECTION A-A

Post shown to be fabricated from 8"x4"x13" WF welded to 7"x1/2"x0.3" base plate and 4" O.D., 1/8" wall x 0.5" tube or sleeve.
An alternate cast steel post may be used if the outside dimensions conform to the dimensions shown as detailed, and is approved by the Engineer.

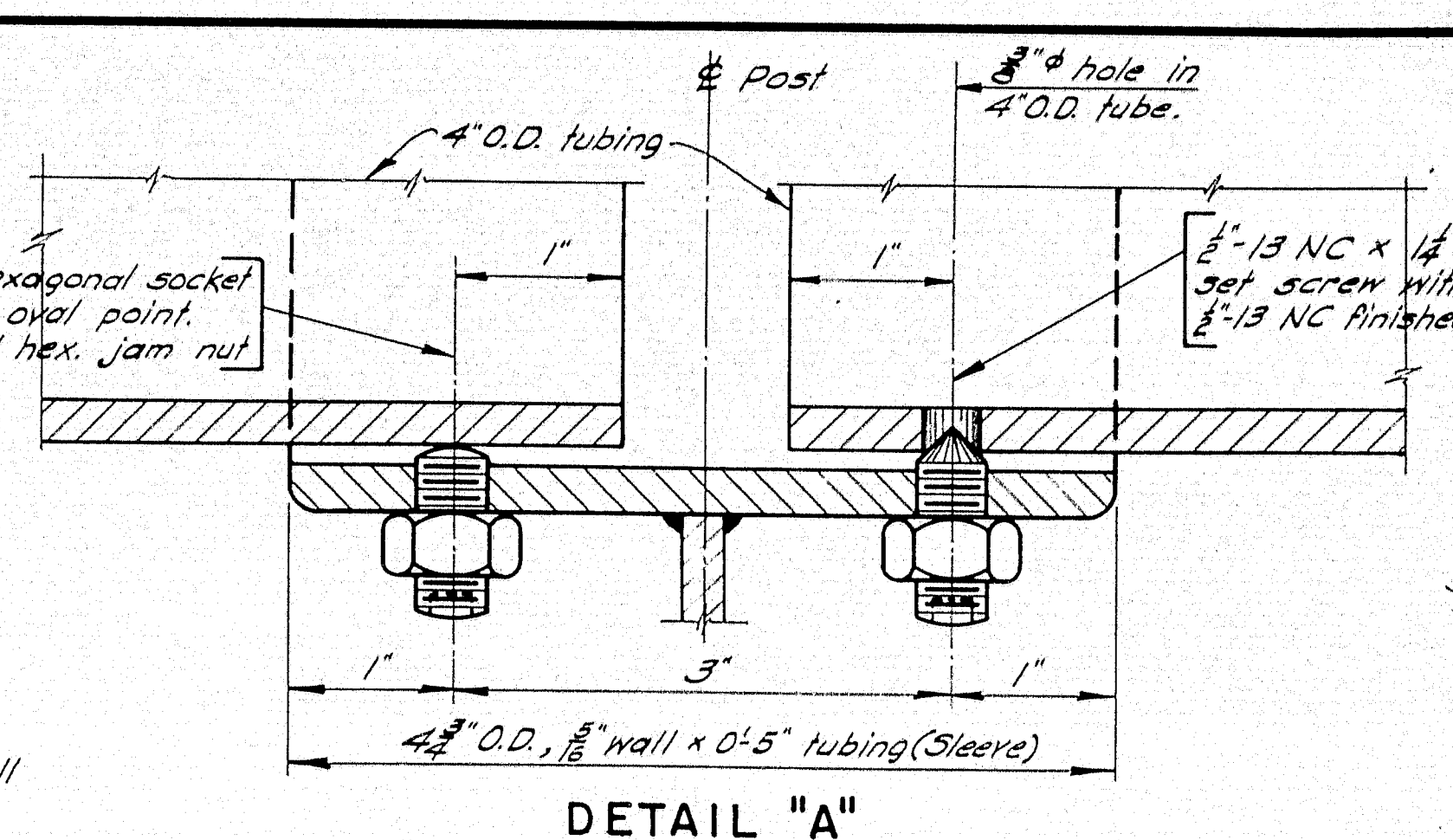


RAIL POST

4" O.D. tubing to be continuous for a minimum of two rail panels. For tubing two or more panels long the cone point set screw to be tight in the hole provided in 4" O.D. tubing. At all other posts one oval point set screw per post shall be set to bear. Where tubes are not continuous thru posts leave 1" gap at the E of post.

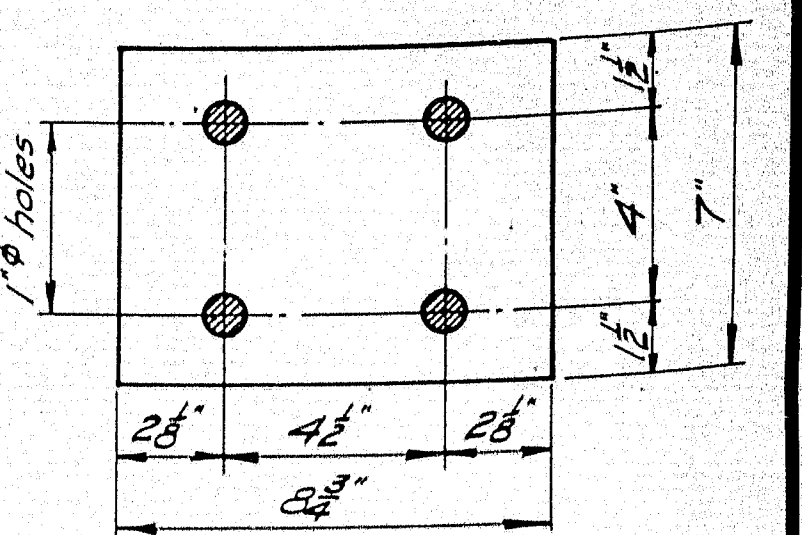


ALTERNATE CAP



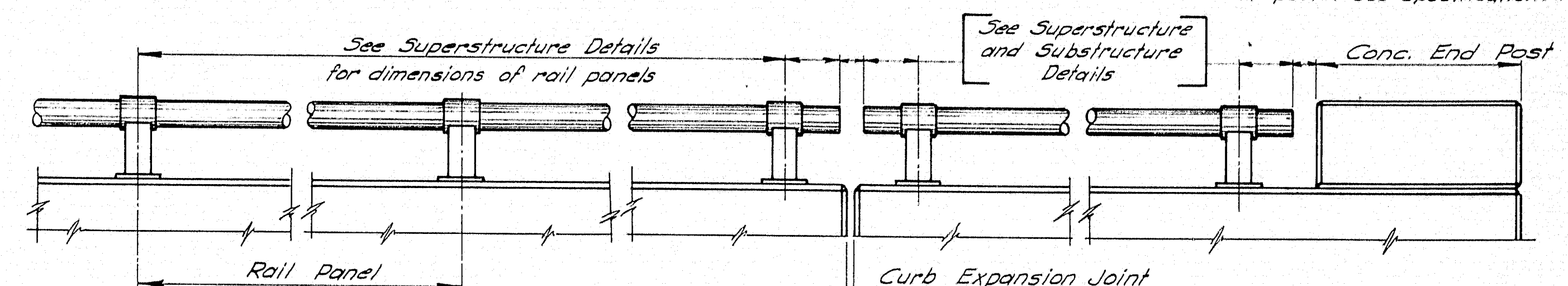
DETAIL "A"

Drill and tap sleeve 1/2" 13 NC (2-holes). Drill 4" O.D. tubing (Rail) 3/8" hole, 1" from one end only.



PAD

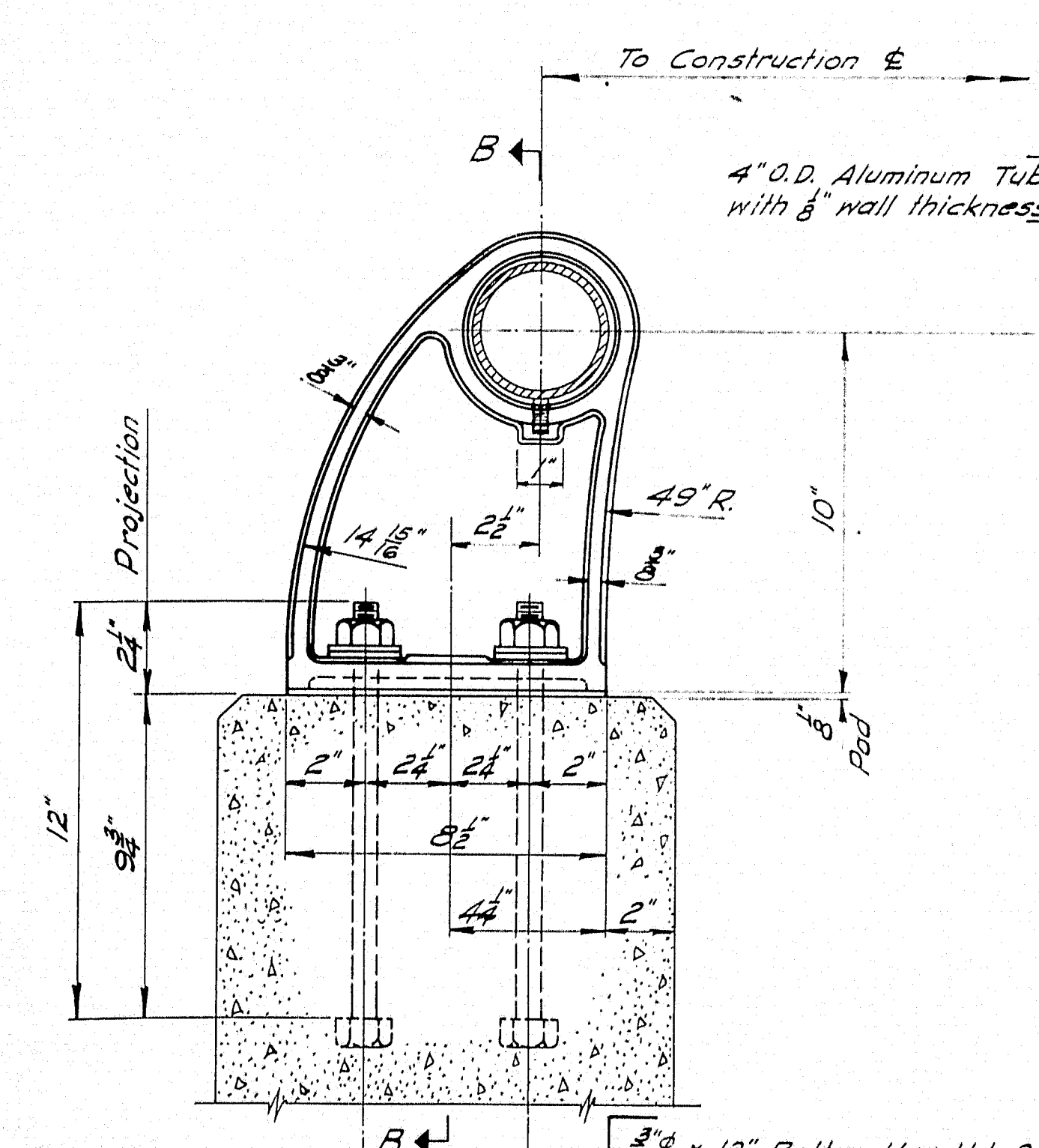
At least one pad shall be placed under each post, and the number of pads supplied shall be 10% in excess of total number of posts. See Specifications for material.



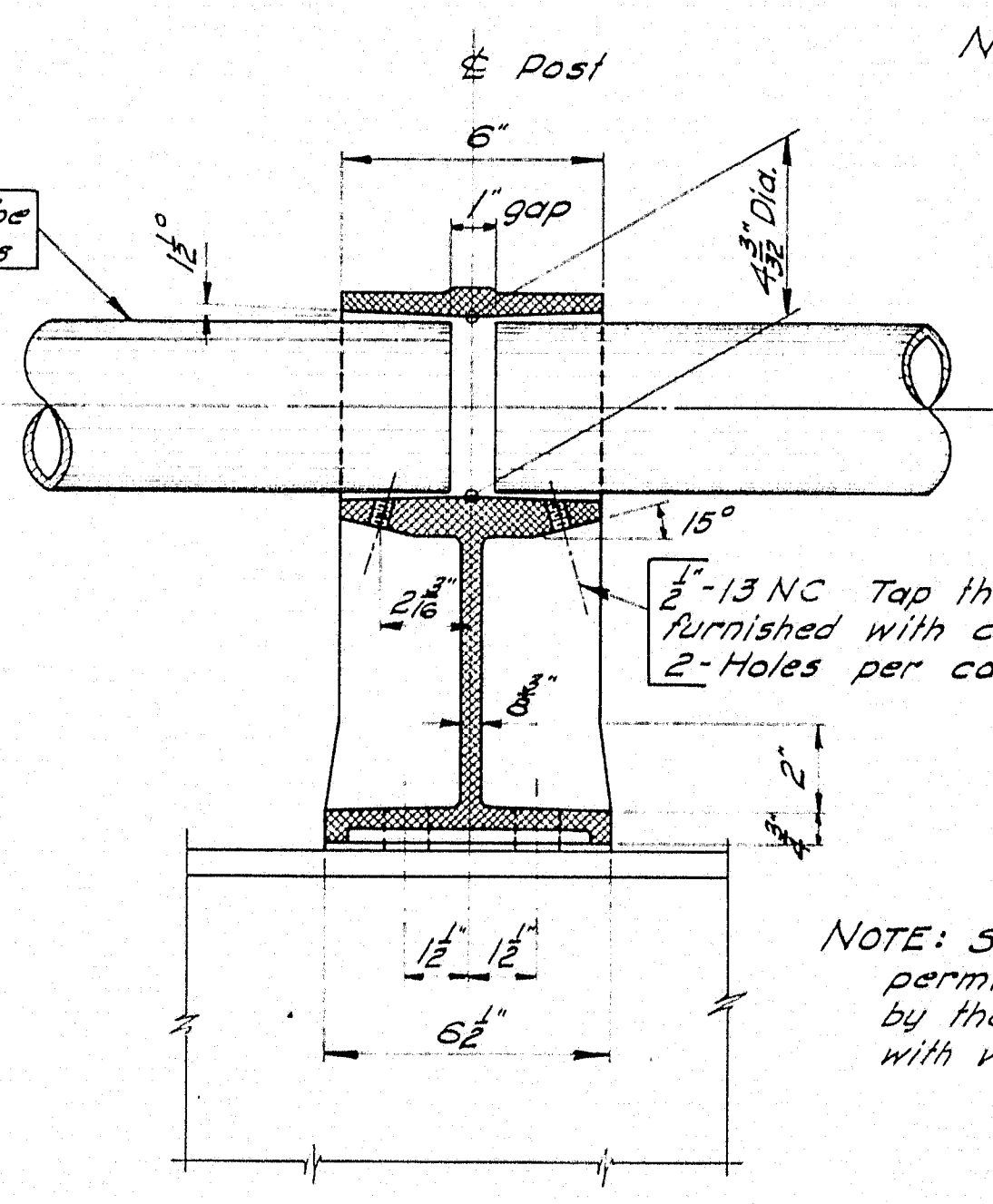
SIDE ELEVATION - RAIL

NOTE: 4" O.D. Tubing, Posts, Bolts, Nuts & Washers to be galvanized.

ONE BAR RAIL - STEEL



RAIL POST

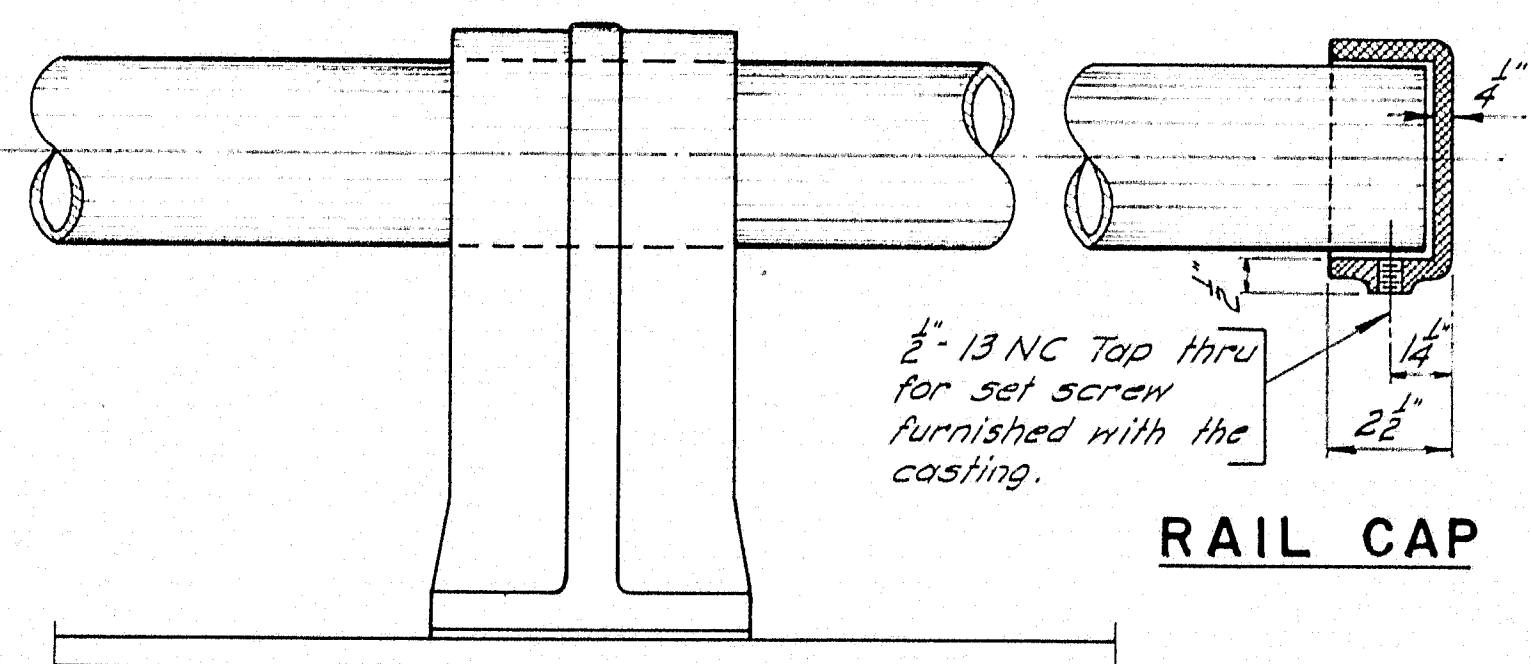


SECTION B-B

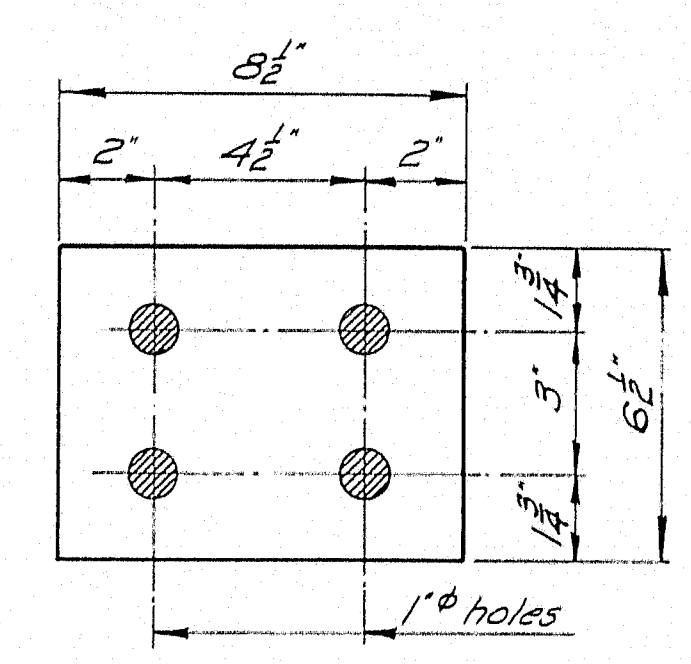
4" x 12" Bolts, Hex. Hd. & Nut.
1/8" Fabric Washer under steel washer.
2" O.D., #9 ga. Washer with 1/8" hole.
4-Bolts per post.
1" Holes in post.

NOTE: Aluminum tubes to be continuous for a minimum of two rail panels. For tubes two or more panels long set screws to be tight at one interior post and to bear at all other posts. Where tubes are not continuous thru posts leave a 1" gap at the E of post.

NOTE: Slight variations will be permitted in details, if approved by the Engineer, in order to conform with various manufacturers castings.

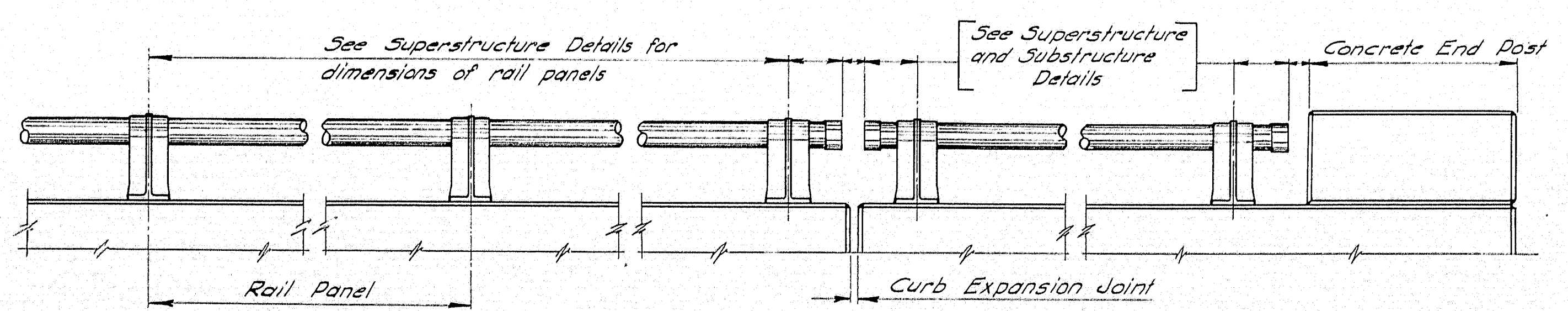


FRONT ELEVATION - RAIL POST



PAD

At least one pad shall be placed under each post, and the number of pads supplied shall be 10% in excess of total number of posts. See Specifications for material.



SIDE ELEVATION - RAIL

ONE BAR RAIL - ALUMINUM

GENERAL NOTES

RAIL ON CURVE

If the curve radius is more than 150 feet and is less than 2700 feet, the rail tube is to be straight and one panel length only, unless otherwise called for in the design details. For curves with a radius less than 150 feet see design details. For curves with a radius more than 2700 feet rail details shall be as shown on this sheet.

Design details govern if there is conflict between dimensions shown in design details and the standards.

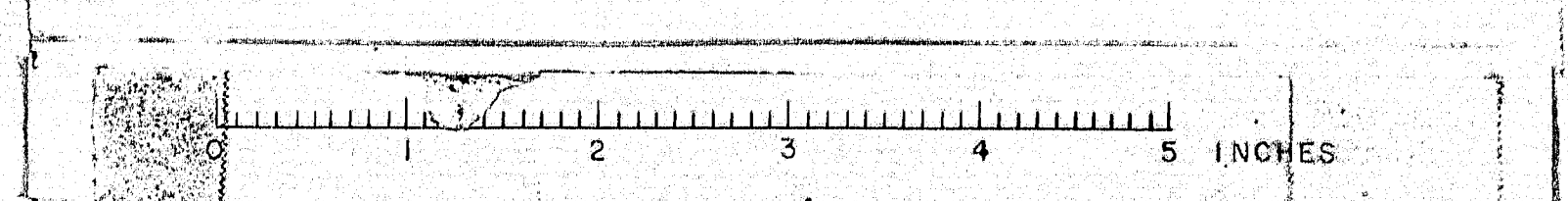
MAINE STATE HIGHWAY COMMISSION
AUGUSTA, MAINE

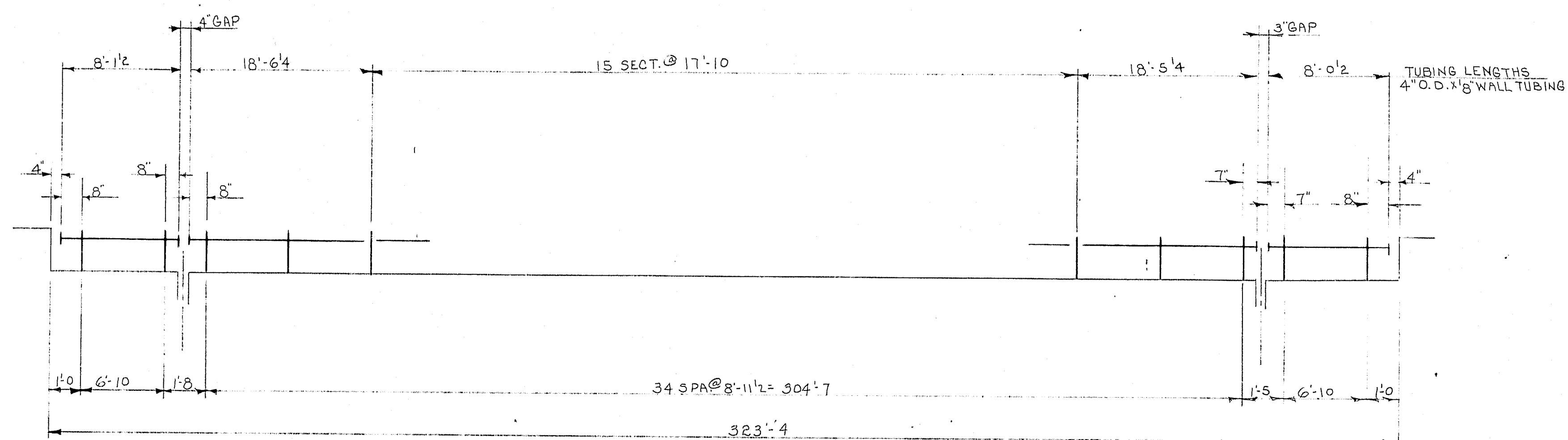
STANDARD DETAILS
(BD 102-64)
BRIDGE RAIL

ONE BAR RAIL - STEEL
ONE BAR RAIL - ALUMINUM

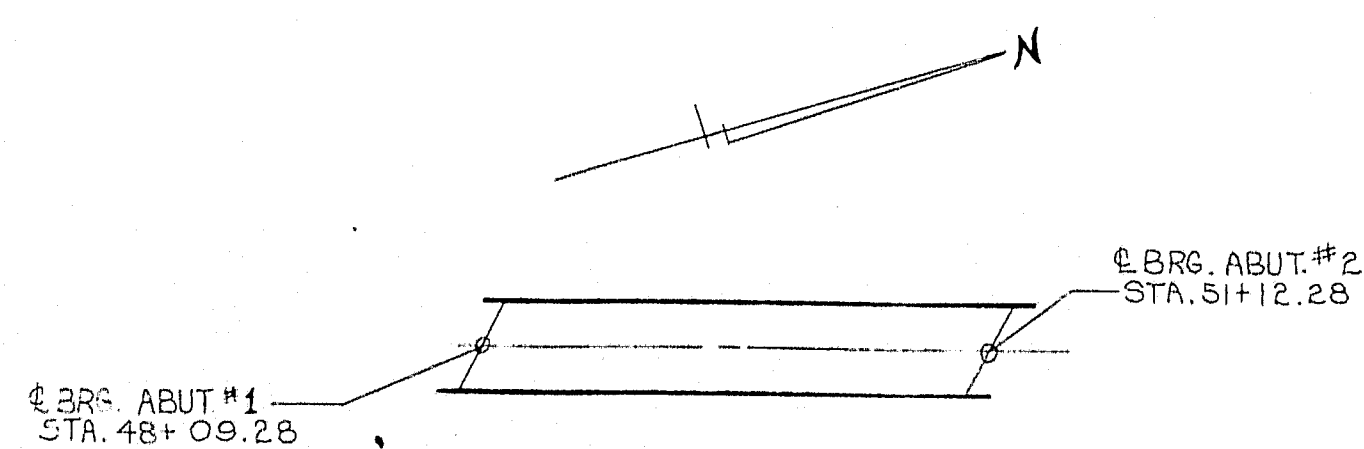
JANUARY 1964

M 2129





INSIDE ELEV. WEST PARAPET
OUTSIDE ELEV. EAST PARAPET
STILLWATER AVE. BRIDGE OVER I 95



NOTE:

FOR GENERAL NOTES & TYPICAL DETAILS SEE DWG. LBS
THIS DRAWING IS NOT TO SCALE.
LENGTH OF RAILING ON THIS SHEET 645' FAY LINT
SPLICE GAP & POST = 1'

BILL OF MATERIAL

| MARK NO. | PC. NO. | NO. REQD. | DESCRIPTION | LENGTH FT. | IN. | REMARKS |
|----------|---------|-----------|--|------------|-------|---------------|
| | | | FOR SPECS SEE DWG. LBS | | | |
| | | 78 | FOSTER FF-108 POSTS | | | W/TEST COUPON |
| | | | W/SET SCREWS | | | |
| | | 86 | VOSSCO PADS 6 1/2" X 8" X 3/4" | | | |
| | | 12 | END CAPS 7172-4 W/SET SCREWS | | | |
| | | | 312 - ANCHOR BOLTS | | | |
| AS1 | | 312 | 3/4" HEX. HD. MACH. BOLT - GALV. X 1' 0" | | | |
| | | 312 | 3/4" REG. HLX. NUTS - GALV. | | | |
| | | 312 | 3/4" FLAT WASHER - GALV. | | | |
| | | 312 | 3/4" FIBER WASHER | | | |
| | | | 3/4" FABRIC | | | |
| | | 2 | 4" O.D. X 1/8" WALL ALUM. TUBING | 15 | 6 1/4 | |
| | | 2 | | 13 | 5 1/4 | |
| | | 30 | | 17 | 10 | |
| | | 2 | | 8 | 1 1/2 | |
| | | 2 | | 3 | 0 1/2 | |

APPROVED:

L. B. FOSTER CO.

ATLANTA - CHICAGO - HOUSTON - LOS ANGELES - NEW YORK - PITTSBURGH

FOR: REED & REED

MAINE STATE HIGHWAY COMMISSION

PENOBSCOT COUNTY PROJ. # 1-95-8(0177)

ALUMINUM PARAPET RAILING FOR

STILLWATER AVE. BRIDGE OVER I 95

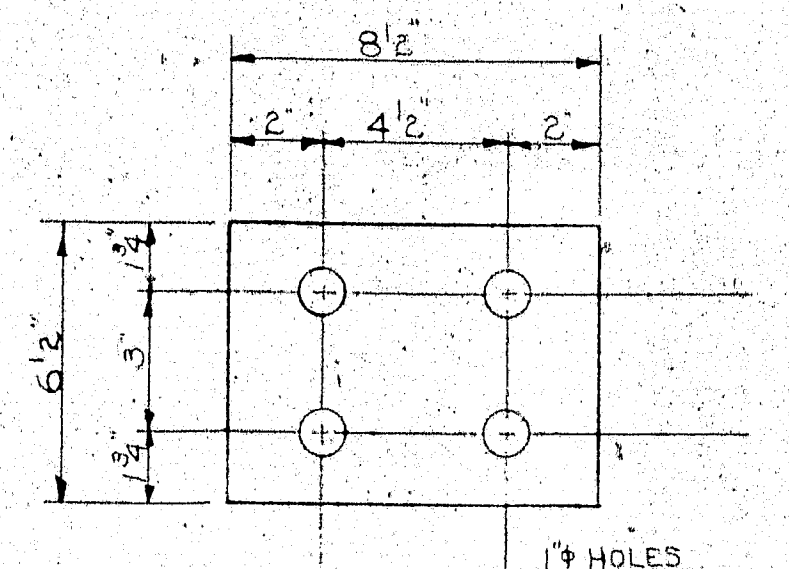
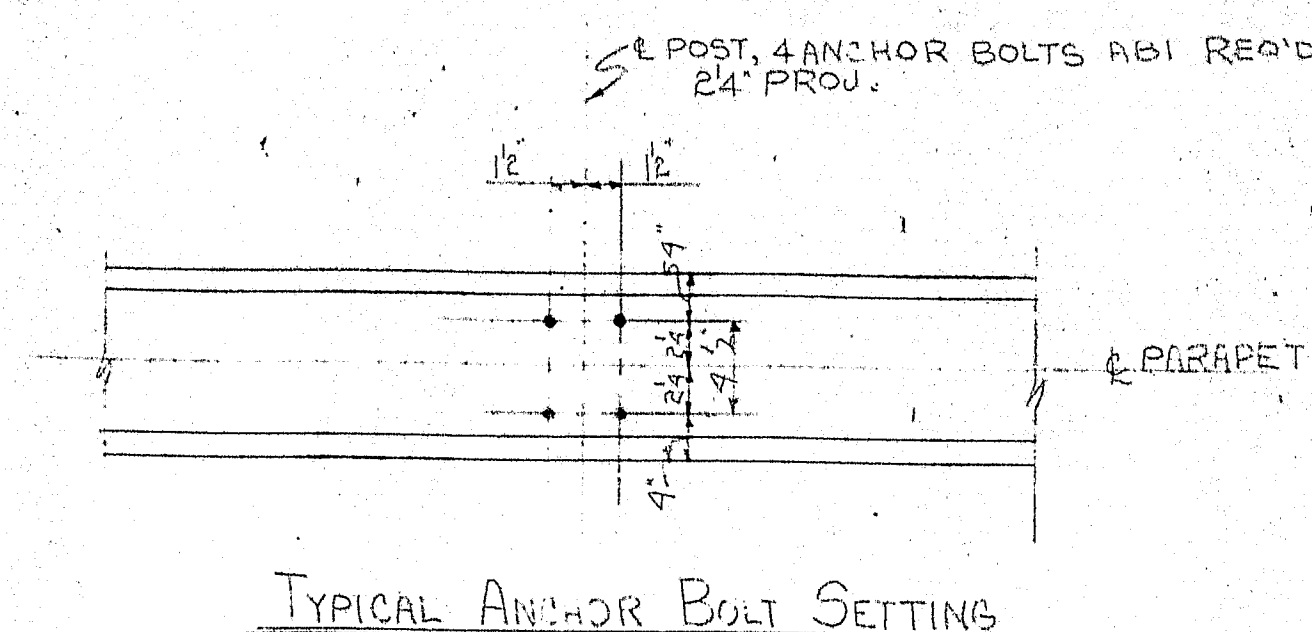
MADE JWR DATE 2-22-94 NO. AL14264 ORDER NO. NO6556

CHECK ELT DATE 10-30-94 DRAWING LBG (LAST) CUSTOMER'S NO.

INSPECTION BY

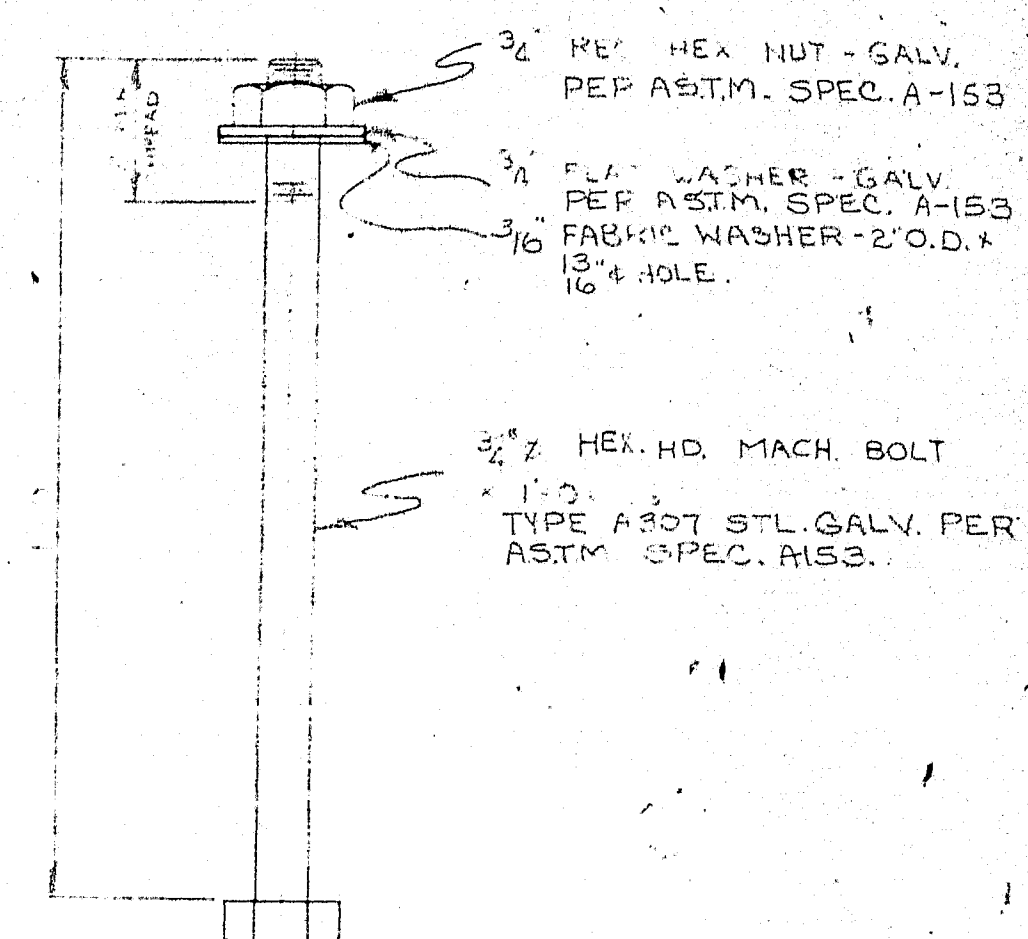
REVISIONS

113157



86 - Vossco PADS
6 1/2 x 8 x 8 1/2

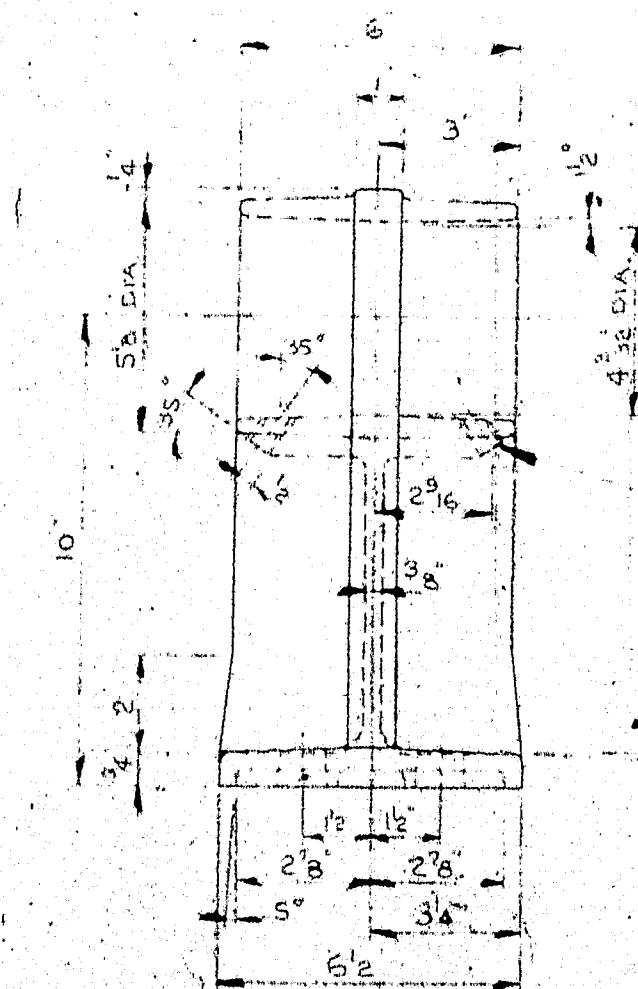
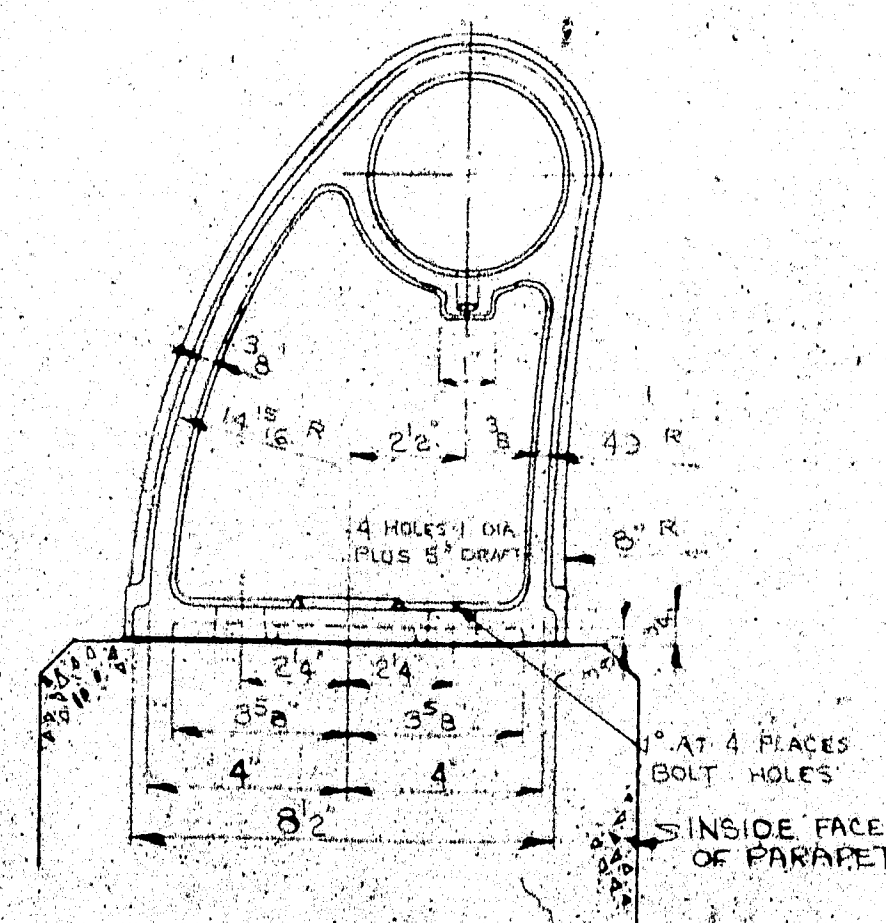
12 - 7172-4 END CAPS
1/4 SET SCREWS



312 - ANCHOR BOLTS-ABI

GENERAL NOTES:

1. RAILING POSTS SHALL BE ALUMINUM ALLOY PERMANENT MOLD CASTINGS (A356-T6) CONFORMING TO ASTM SPEC. B208 ALLOY 9072B CONDITION T6.
2. RAILING SHALL BE ALUMINUM ALLOY EXTRUDED TUBE (6061-T6) CONFORMING TO ASTM SPEC. B208 ALLOY 9072B, CONDITION T6.
3. RAILING SHALL BE CONTINUOUS FOR A MINIMUM OF TWO OR MORE PANEL LENGTHS. FOR TWO OR MORE PANELS LONG SET SCREWS TO BE TIGHT AT ONE INTERIOR POST AND TO BEAR AT ALL OTHER POSTS. WHERE TUBES ARE NOT CONTINUOUS THERE SHALL BE A ONE INCH GAP AT CENTERLINE OF POST.
4. ALUMINUM RAIL POST CASTING SHALL BE FURNISHED WITH AN INTEGRALLY CAST TEST COUPON FOR TENSION TEST SPECIMEN.



SUPPLIER TO FURNISH 2 1/2" x 13 N.C.
x 1/2" LG. HEX SOCKET HEADLESS
CUP POINT SET SCREWS - ALUM.
ALLOY (2024-T4) PER A.S.T.M. B211
ALLOY 6342A-T4 WITH 205
ALUMINITE FINISH.

| | |
|---|---------------|
| APPROVED: | |
| L. B. FOSTER CO. | |
| ATLANTA - CHICAGO - HOUSTON - LOS ANGELES - NEW YORK - PITTSBURGH | |
| FOR: REED & REED | |
| MAINE STATE HIGHWAY COMMISSION | |
| PENOBSCOT COUNTY PROJ. # 1-56-801187 | |
| ALUMINUM PARAPET RAILING | |
| GENERAL NOTES & TYPICAL DETAILS | |
| MADE IN U.S.A. DATE 9-22-44 JOB NO. AL-24264 ORDER NO. H-06556 | INSPECTION BY |
| CHECKED DATE 10-30-44 DRAWING NO. 18-5 CUSTOMER'S NO. | REVISIONS |

78 - FOSTER FF-108 POSTS
1/4 TEST COUPONS

112:58