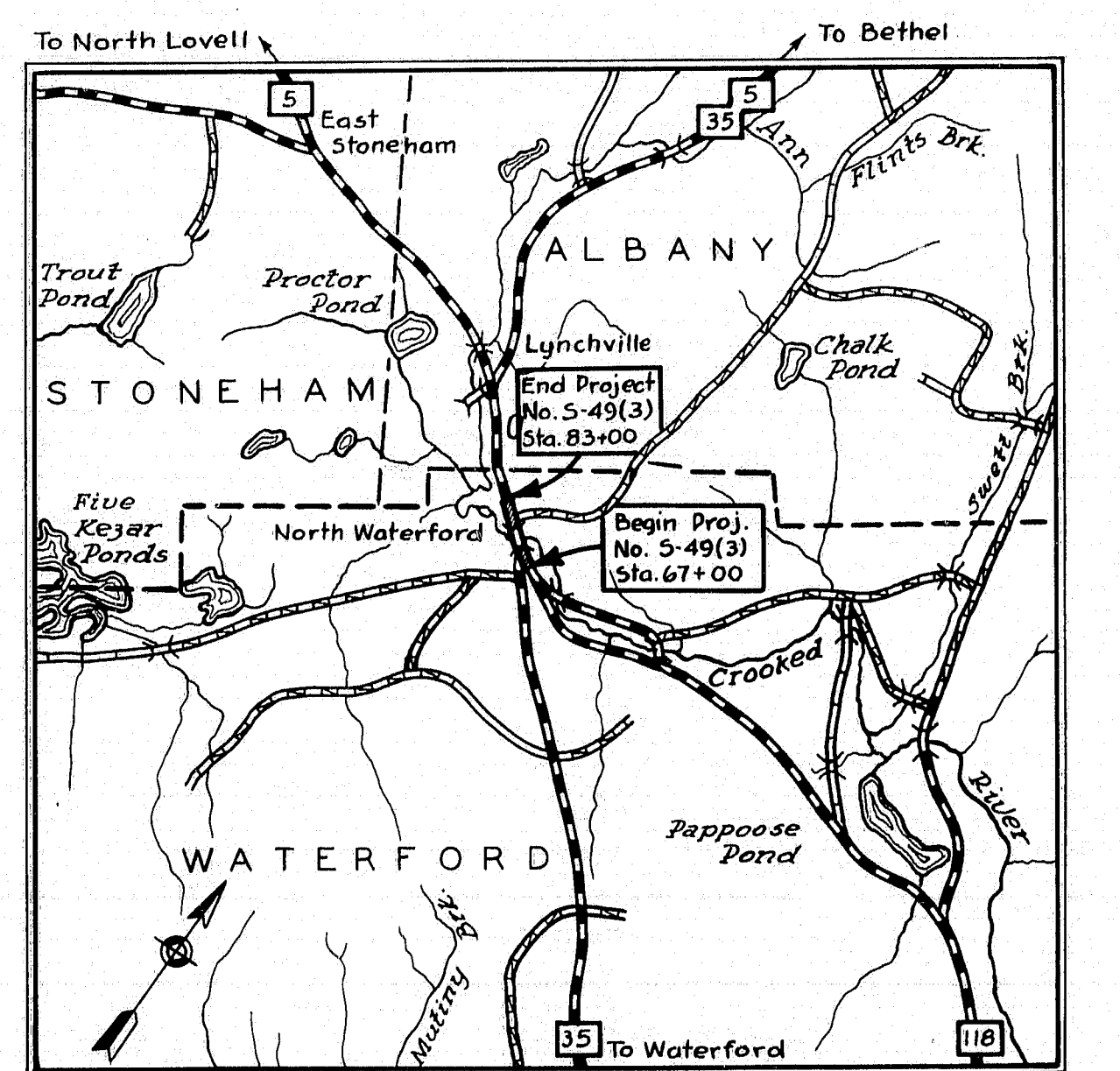


STATE OF MAINE STATE HIGHWAY COMMISSION

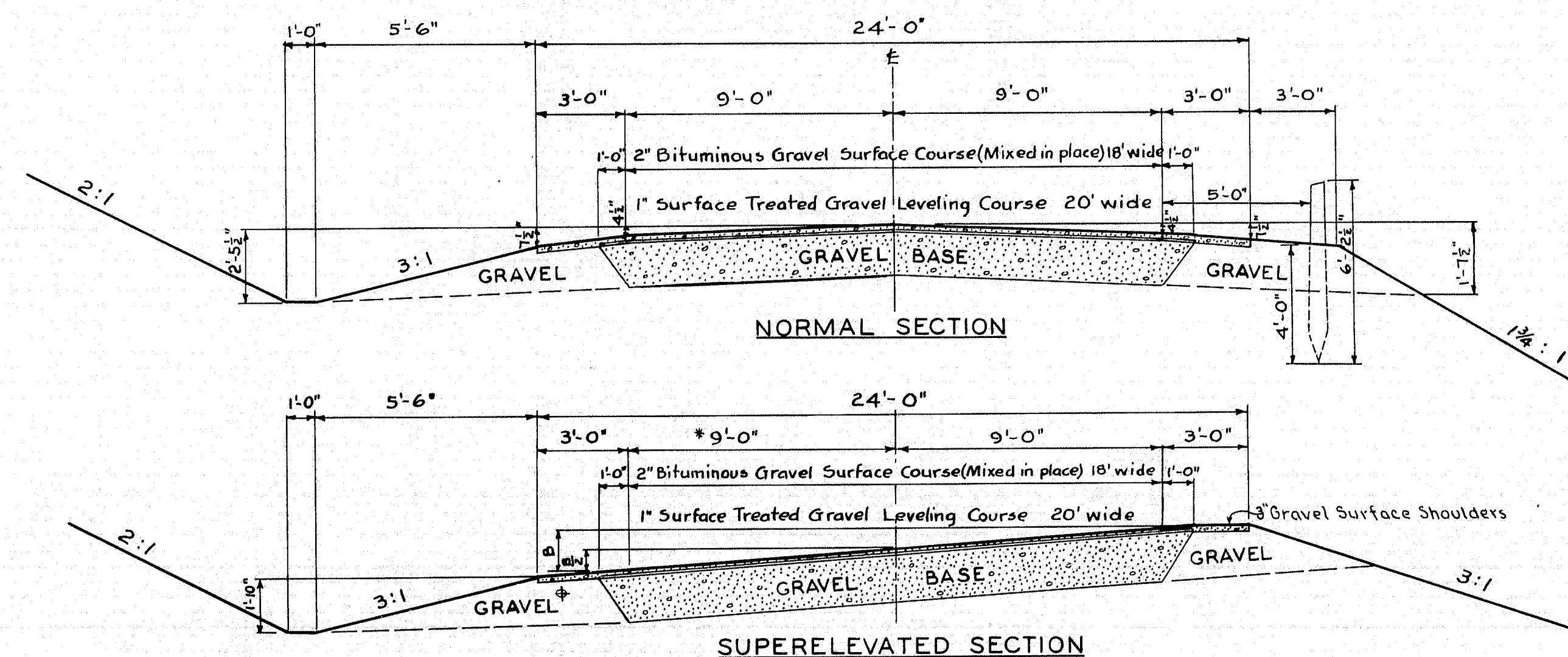


HORRS BRIDGE OVER THE CROOKED RIVER IN THE TOWN OF WATERFORD OXFORD COUNTY FEDERAL AID SECONDARY PROJECT NO. S-49(3) TOTAL LENGTH 0.303 MILES

398 24.32' Elevation



LOCATION MAP
Traced from S.W.H.P.S.
Scale 62,500



*Curves of 6° or more shall be widened. The Extra Width expressed in feet is given by the formula $\frac{D}{10} + 2'$

Curves of one degree or more shall be super-elevated. "B" equals degree of curve x 3 with a minimum of 9" super-elevation. Maximum super-elevation equals 1" per foot of pavement width. All curves to have full super-elevation at approximately 50' onto curve from the P.C. and 60' with a run-off of 150' unless otherwise specified.

*Gravel shoulders shall conform to the Specifications for, and will be paid for as Gravel Base.

TYPICAL APPROACH SECTIONS

Loading - H 15-44

-Concrete Classifications-
Abutments - Class B
Floor Slab - Class A
Wearing Surface - Class A-A
Concrete Rail - Class Y
Drop Inlets - Class A

APPROVED:
MAINE STATE HIGHWAY COMMISSION

Charles B. Mott CHAIRMAN
C. J. Russell
Harold D. Welch
Lucius D. Sawner CHIEF ENGINEER

RECOMMENDED FOR APPROVAL DATE
DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE
DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

INDEX OF SHEETS

- 1 TITLE SHEET
- 2-3 SPECIAL DETAILS
- 4-5 SURVEY PLAN
- 6-8 CROSS SECTIONS
- 9 ABUTMENTS
- 10 SUPERSTRUCTURE
- 11 STRUCTURAL STEEL

49-118

10'-0"

6'-10"

SHOULDER GRADE AT CURB

TRANSITIONAL SHOULDER WARPING 4'-0"±

BAFFLE WALLS

2" PREMIXED GRAVEL SURFACE

2'X10" PLANK CURB

2'X4"X36" HEMLOCK OR SPRUCE POSTS. DO NOT FASTEN TO SLUICE IN ANY WAY.

5'-0" M.S.L.

1'X8"X30" BOARD TO OVERLAP SECTION JOINTS ON SIDES 16"

2'X10"X40" HEMLOCK OR SPRUCE PLANK TO OVERLAP SECTION JOINTS 5"

6'-0"

16"X6'-10" #28 GALVANIZED IRON BENT OVER UPPER SIDE OF BAFFLE WALL 6" AND EXTENDING OVER APRON 8"

8'X24" #28 GALVANIZED IRON NAILED TO OUTLET OF APRON AND OVERLAPPING 6"

2'X4" BRACES

1" AIR SPACE MIN.

SHOULDER GRADE AT CURB

PLANK CURB & PLANK APRON

NO SECTION SHALL BE LESS THAN 8 FEET LONG, WHERE TOTAL LENGTH OF SLUICE IS 15 FEET OR LESS, IT SHALL BE CONSTRUCTED IN ONE PIECE. APRON, SLUICE AND POSTS TO BE GREGOSITED. MATCHED LUMBER TO BE USED ON BOTTOM OF APRON AND SLUICE.

[illegible][illegible]

METAL SLUICE

SECTION A-A

2"x10" PLANK CURB
 SHOULDER GRADE AT CURB
 TRANSITION 7'-0"

BITUMINOUS COATED HALF
 SINGLE SLUICE
 18"

2"x4"x2'-6"
 WOOD STAKES

2"x10" HEMLOCK OR SPRUCE
 PLANK BAFFLE WALL

BOTH FLANGES TO BE PUNCHED WITH 2- $\frac{3}{8}$ " HOLES,
 3" C.C. IN THE CENTER OF EACH 2'-0" SECTION.

SLUICE CONNECTION AT PLANK CURB.

ELEVATION

1'-0"
 3'-11"
 6'-0"
 1'-0"
 5" SPIKES
 2"x6"x2'-6" WOOD STAKES
 6'-0" C.C.

SLUICE TO BE IN MULTIPLES OF 2'-0".

[illegible][illegible]

ROAD SURFACE

6' MIN.

5' MIN.

2:1 SLOPE

FIELD STONE 6' MIN. WIDTH OF FACE.

TO BE CONSTRUCTED IN 20' SECTIONS. CONSTRUCTION JOINTS TO BE PAINTED WITH BITUMINOUS MATERIAL. EXPANSION JOINTS EVERY 40' ± THICK PRE-COLORED MATERIAL SHALL BE PLACED AT EACH EXPANSION JOINT.

"A" BARS 3" X 10'-0" LONG. "B" BARS 3" X 5'-0" LONG. PLACE "A" BAR 1'-0" FROM EACH END OF THE SECTION AND THEN SPACE THEM 3'-6" C.T.O.C. THE REST OF THE SECTION DOWELS 3" X 1'-0" LONG, SPACED 1'-0" C.T.O.C.

CLASS "A" CONCRETE 5.49 CUB. YDS. PER 100 LIN. FT.
 STEEL 339.33 LBS. PER 100 LIN. FT.

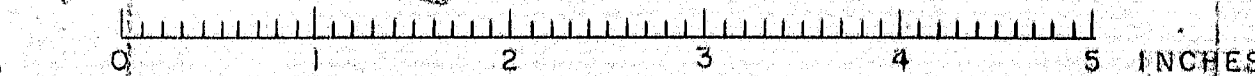
STANDARD

DRIVEWAY

EXPANSION & DUMMY JOINTS IN CURB SHALL BE CONSTRUCTED AT SAME LOCATION AS EXPANSION & DUMMY JOINTS IN CONCRETE PAVEMENT.

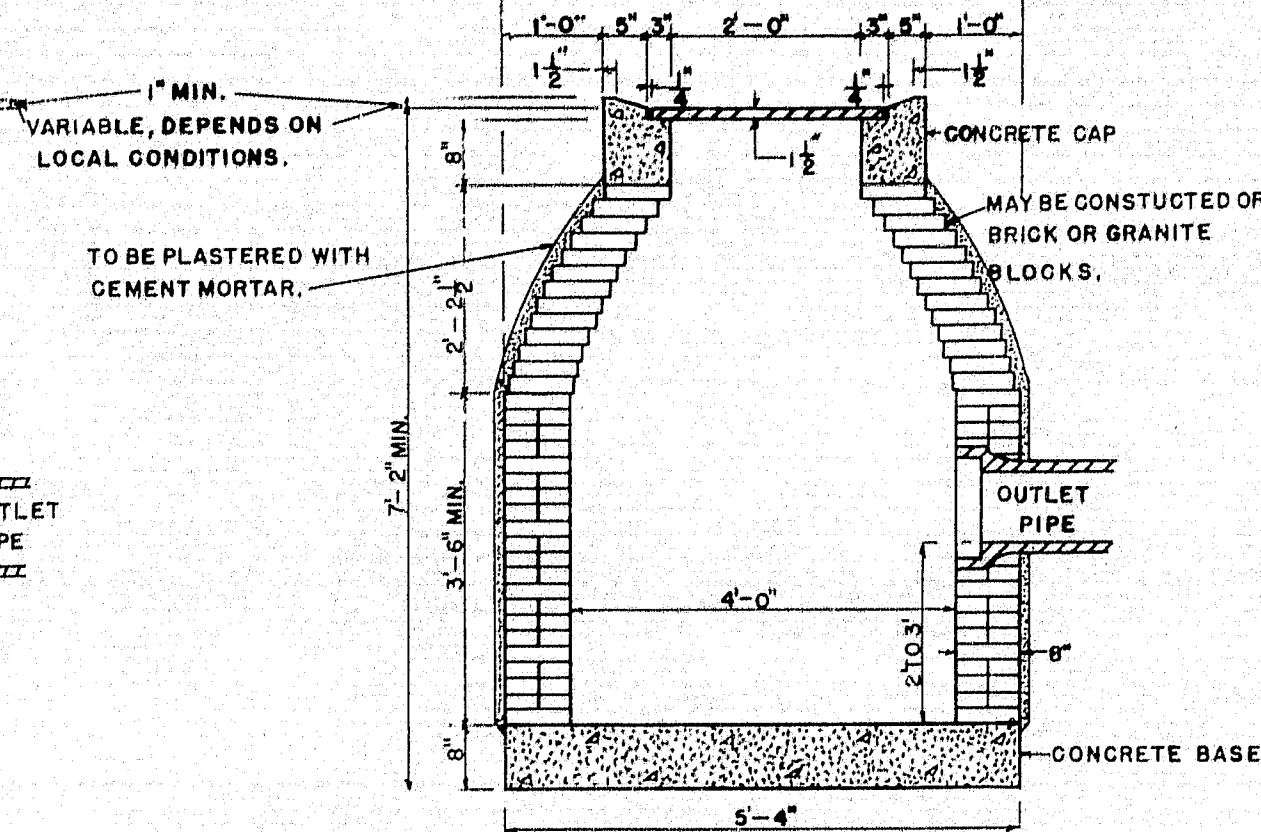
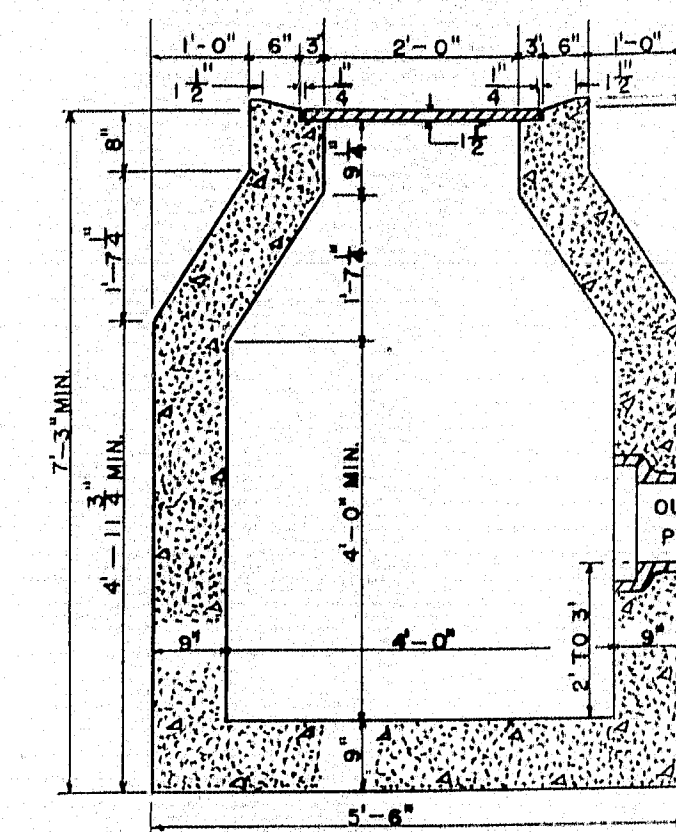
DOWELS $\frac{1}{2}$ " SPACED 1'-0" C.T.C. FIRST DOWEL TO BE PLACED 6" FROM END OF JOINT.

CONCRETE (STANDARD) 1,170 U.YDS. PER 100 LIN. FT.
STEEL (STANDARD) 55.5 LBS. PER 100 LIN. FT.

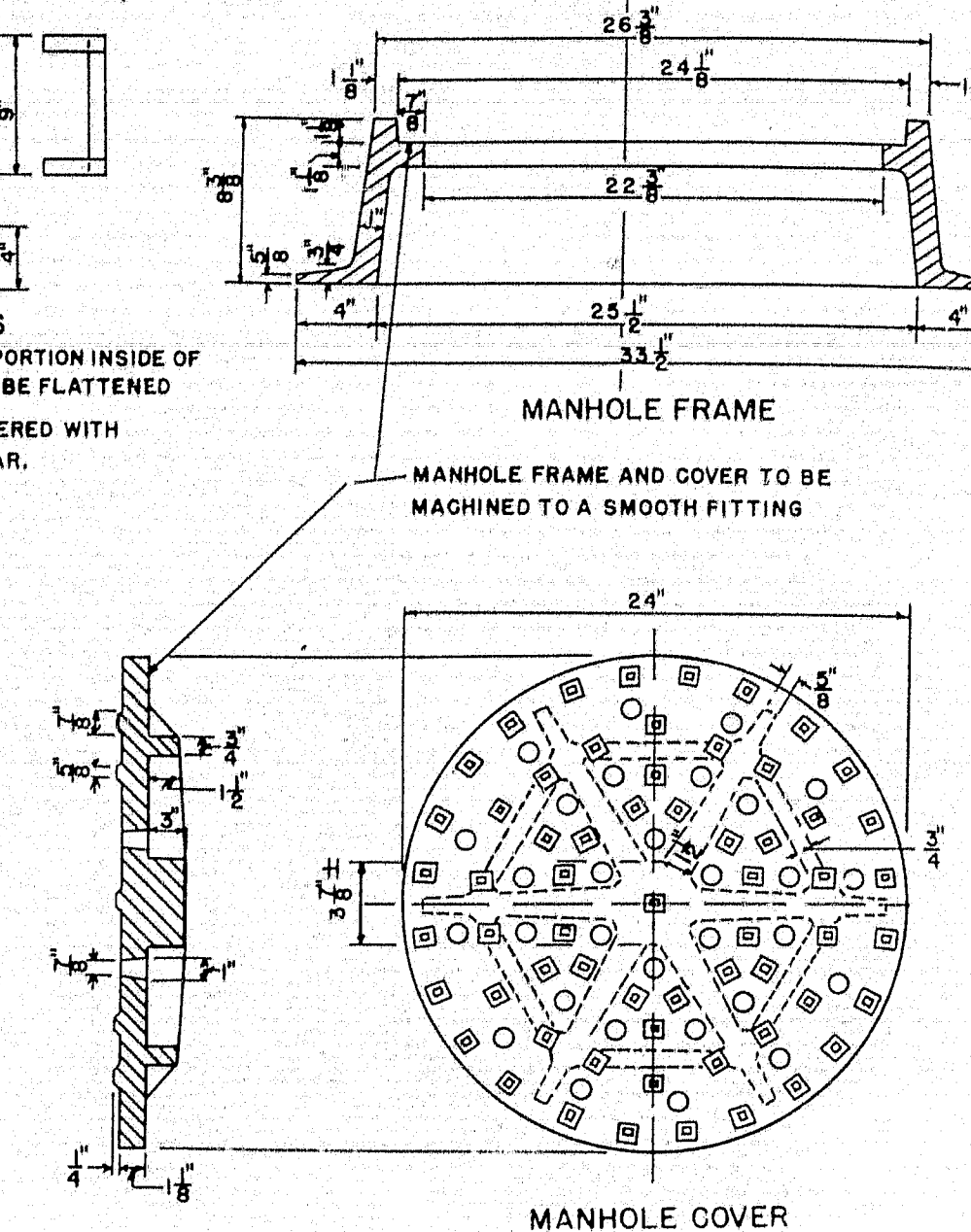
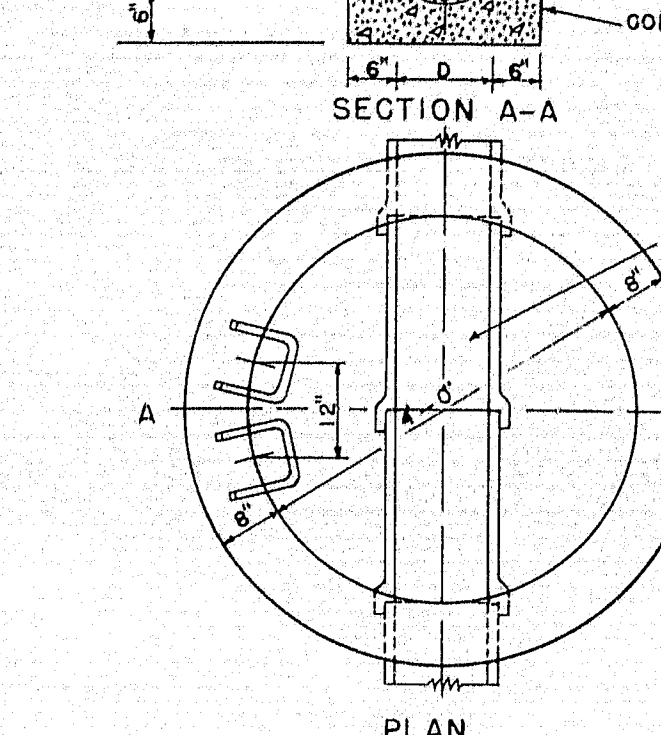
[illegible]

[illegible]

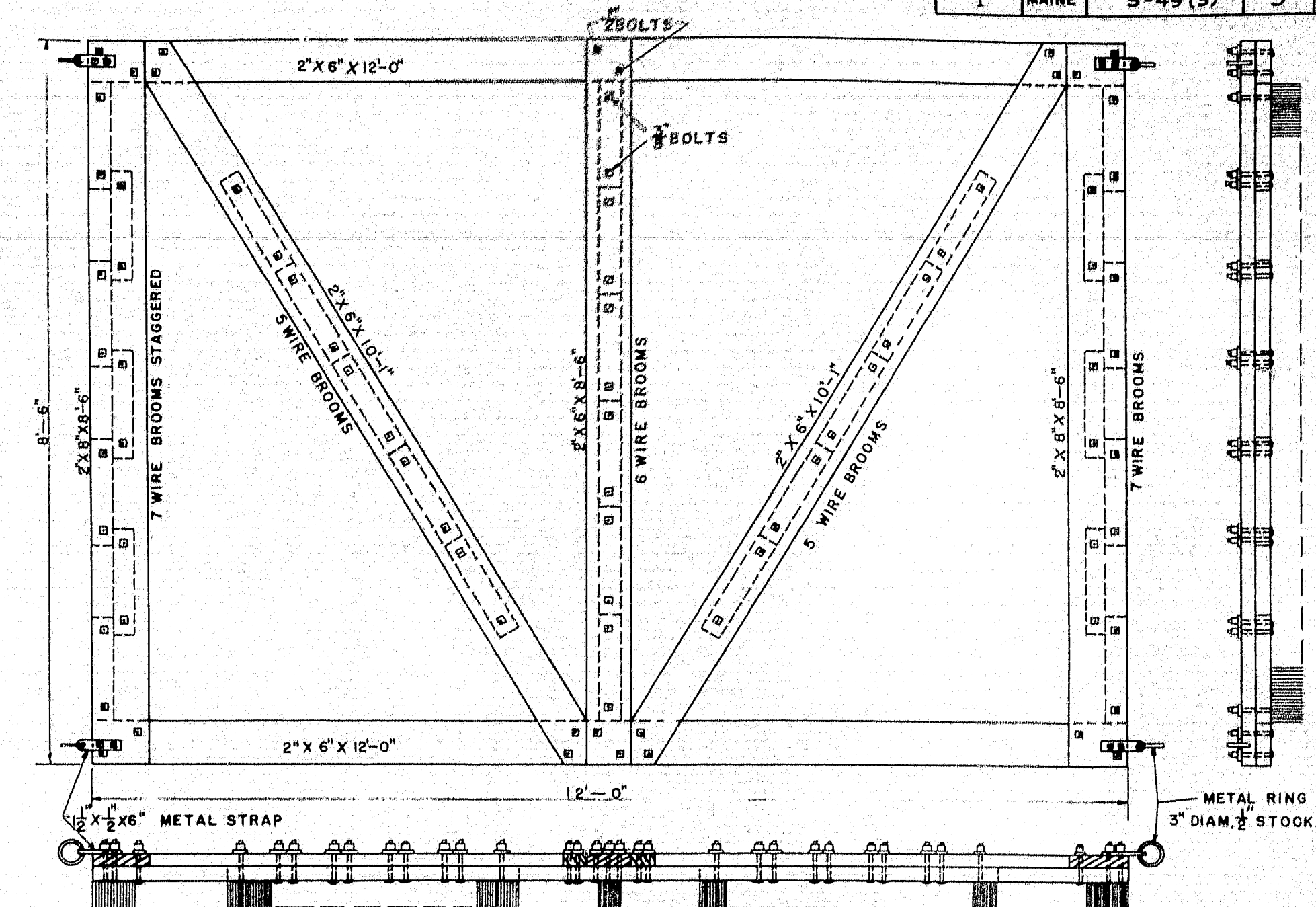
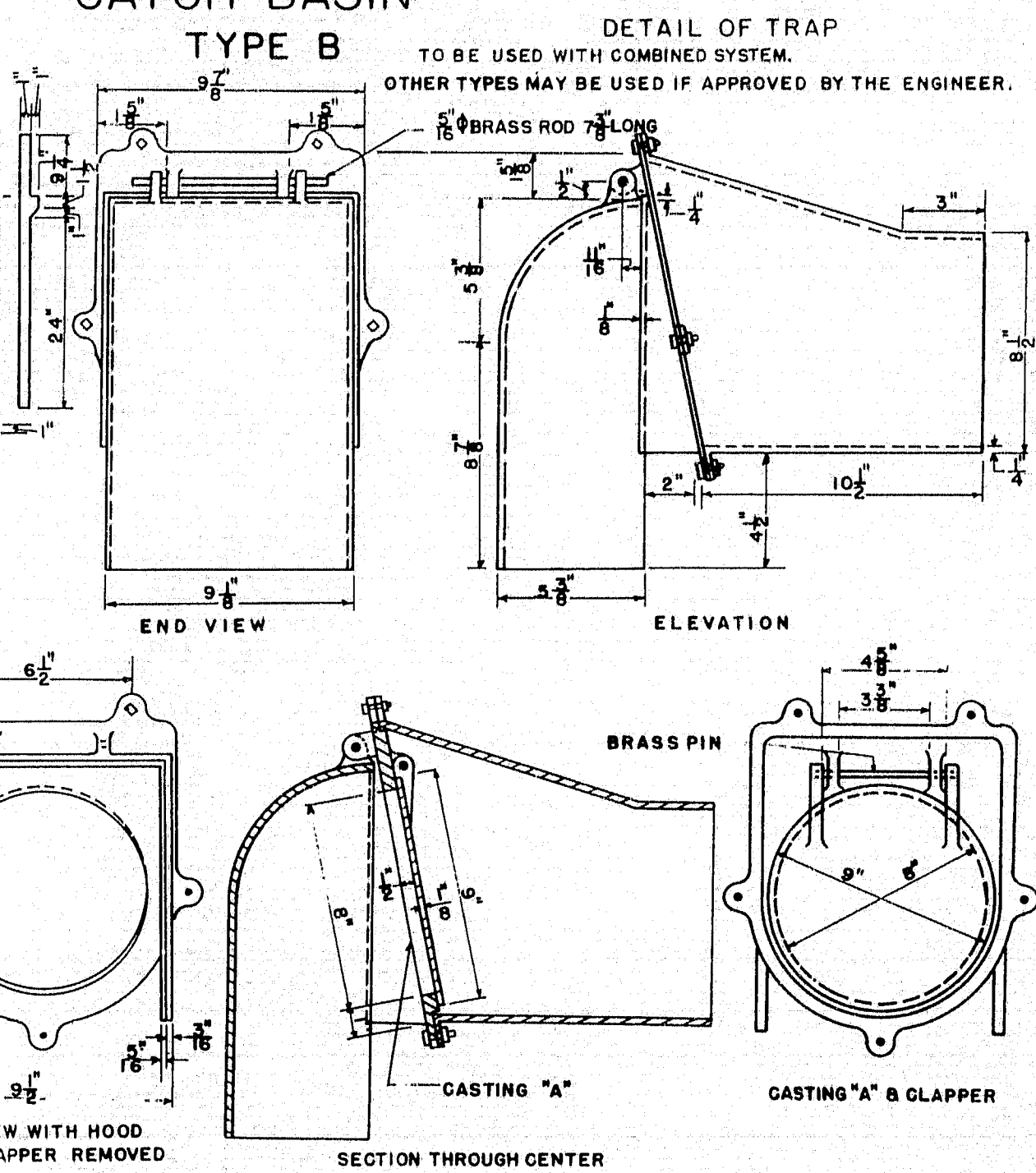
GRATE $29\frac{1}{2} \times 29\frac{1}{2} \times 1\frac{1}{2}$

[illegible]

STEPS
 1. STEEL WITH PORTION INSIDE OF
 BRICKWORK TO BE FLATTENED
 2. TO BE PLASTERED WITH
 CEMENT MOTAR.



P.R.A. DIV. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	S-49 (3)	3	11

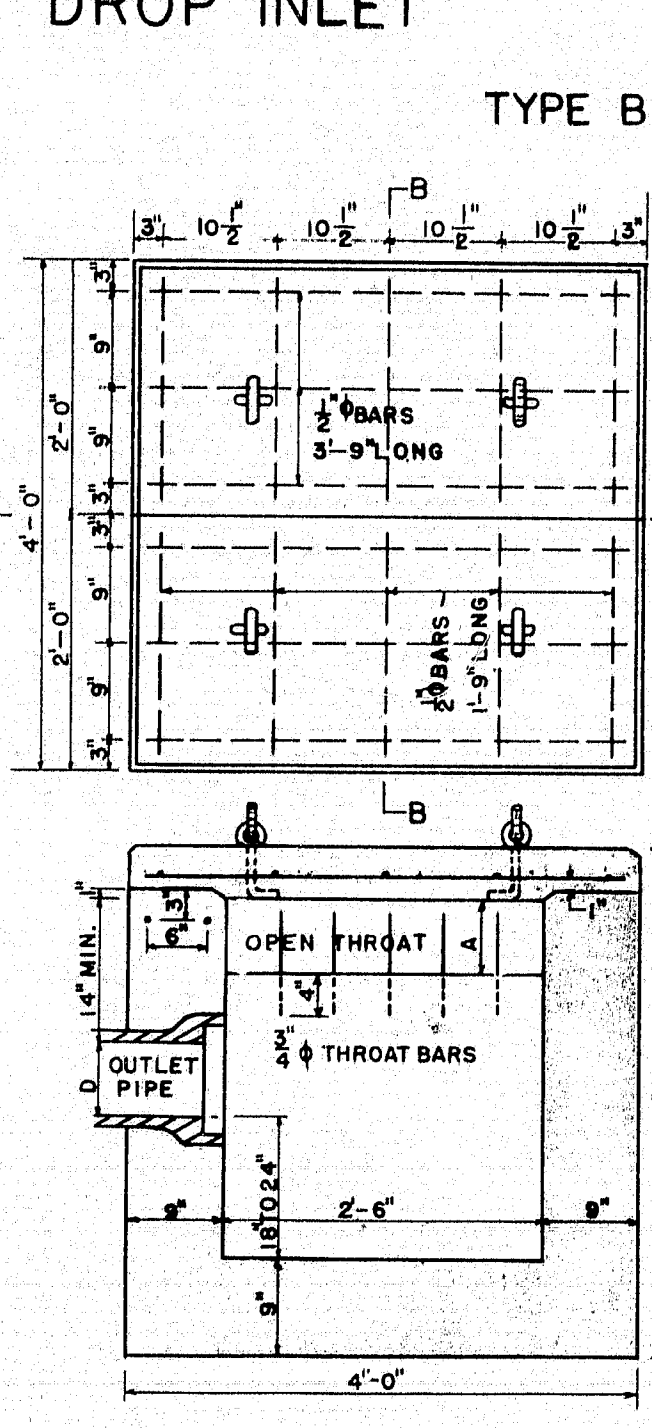
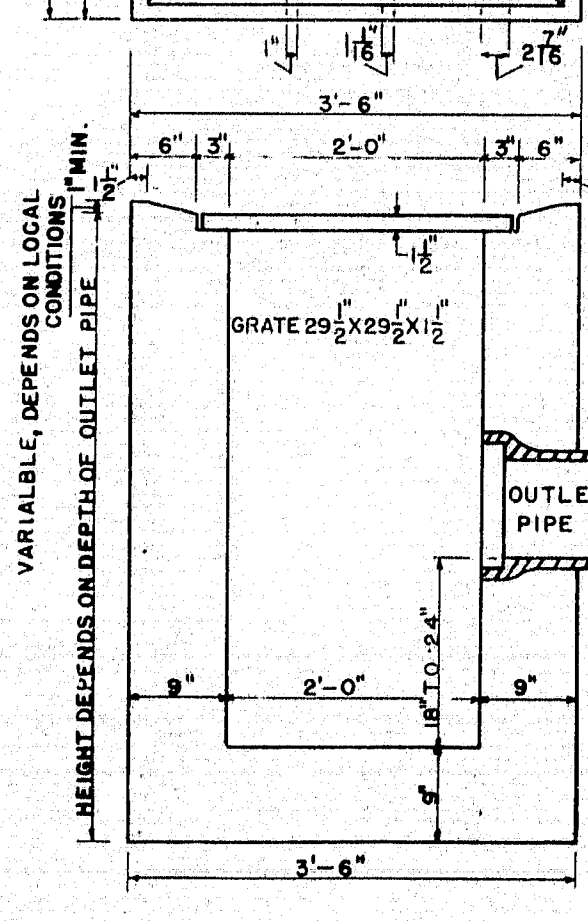
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TYPE A

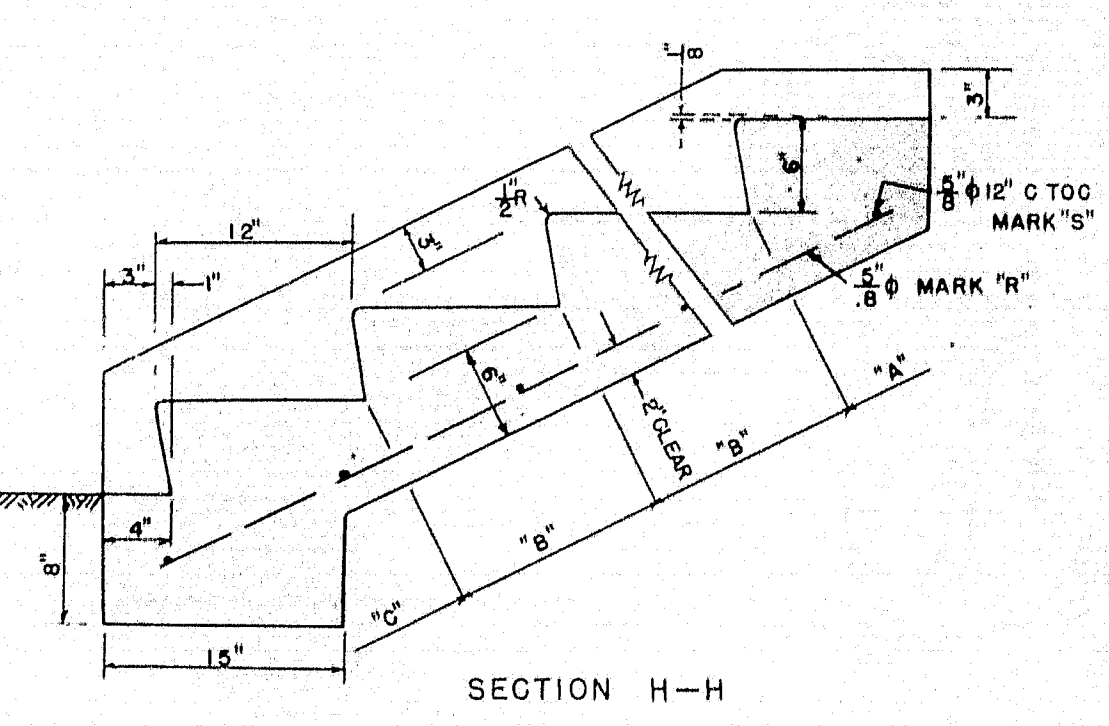
Diagram illustrating the construction details of a window frame (Type A). The diagram shows a cross-section of the window assembly, including the frame, glazing, and surrounding structure. Key dimensions and components are labeled:

- Overall height: 1' 6"
- Overall width: 1' 6"
- Frame thickness: 1/2"
- Glazing thickness: 1/4"
- Insulation thickness: 1/2"
- Frame depth: 1/2"
- Glazing depth: 1/4"
- Insulation depth: 1/2"
- Frame material: 1/2"
- Glazing material: 1/4"
- Insulation material: 1/2"

TYPE B



SECT. A-A



CONCRETE CLASS "A"		
SECTION	STEPS PER FT. OF WIDTH	PARAPET EACH WALL
"A" HEADER	.026 CU. YDS.	.022 CU. YD.
"B" E.A. INTER.ST.	.030 CU. YDS.	.034 CU. YD.
"C" FOOTER	.050 CU. YDS.	.081 CU. YD.

REINFORCING STEEL			
MARK	SIZE	NUMBER	LENGTH (EACH)
R	$\frac{5}{8} \phi$ 1,043 LBS. PER FT.	1 EACH PARAPET 1 EACH FT. OF WIDTH	8' FOR "A" +13' FOR EACH "B" +16' FOR "C"
S	$\frac{5}{8} \phi$ 1,043 LBS. PER FT.	1 FOR "A" 1 FOR EACH "B" 2 FOR "C"	6' EACH PARAPET +1/2' PER FT. OF WIDTH

Diagram illustrating a grate assembly. The grate is labeled "GRATE SAME AS FOR TYPE 'M'" and is supported by a structure labeled "OPEN THROAT".

Technical drawing of a granite curb inlet, labeled "TYPE C". The drawing includes a side view and a cross-section labeled "SECT. A-A".

Side View Dimensions:

- Overall width: 12" (left) + 2'-0" (center) + 12" (right) = 24" total.
- Overall height: 17"
- Top surface: GRANITE CURB INLET
- Bottom surface: 4" RAD. (radius)
- Bottom width: 4'-0" (center) + 12" (left) + 12" (right) = 24" total.

Cross-section (SECT. A-A) Dimensions:

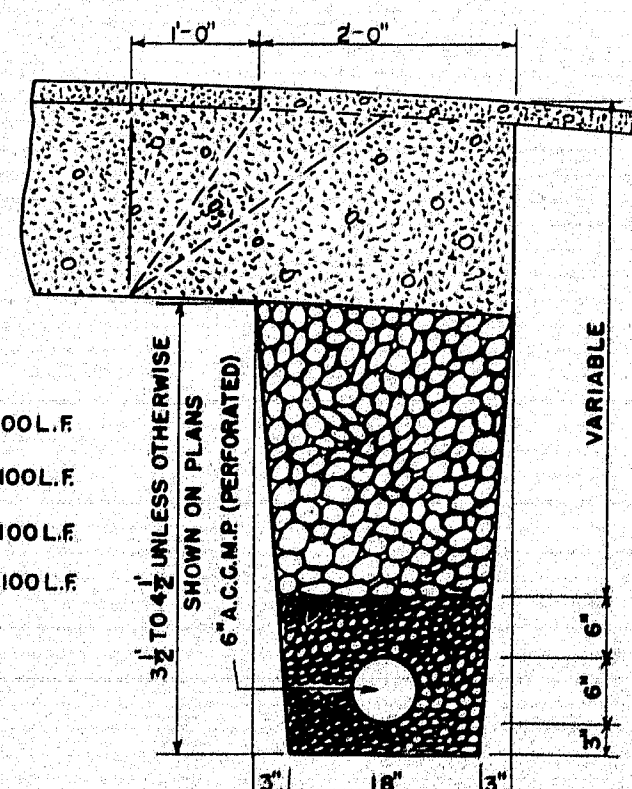
- Overall width: 7"
- Top surface: 4" (left) + 3" (right) = 7" total.
- Bottom surface: 4" (left) + 3" (right) = 7" total.
- Height: 17"
- Internal width: 4" (left) + 3" (right) = 7" total.

CATCH BASIN MAY BE CONSTRUCTED OF CONCRETE, BRICK,
OR GRANITE BLOCKS AND SHALL CONFORM TO THE DIMEN-
SIONS OF TYPE "A" CATCH BASIN.

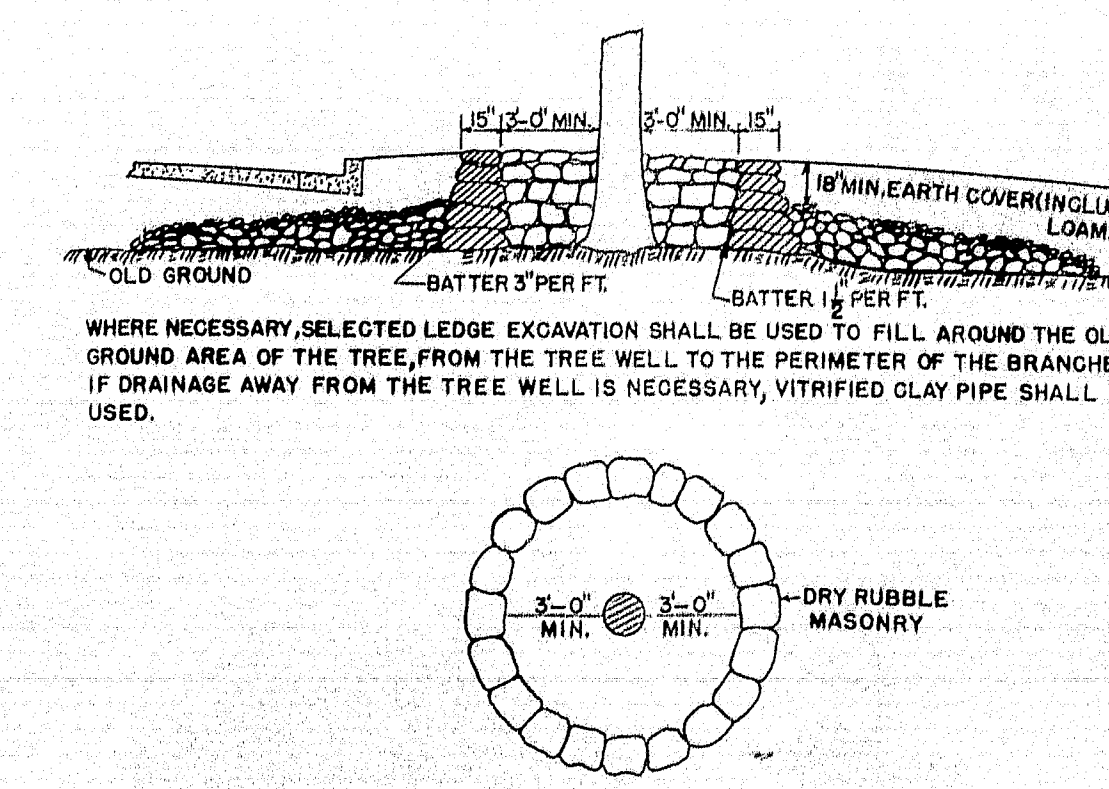
TRAPS SIMILAR TO THOSE SHOWN FOR TYPE "B" CATCH BASIN
SHALL BE USED IF ORDERED.

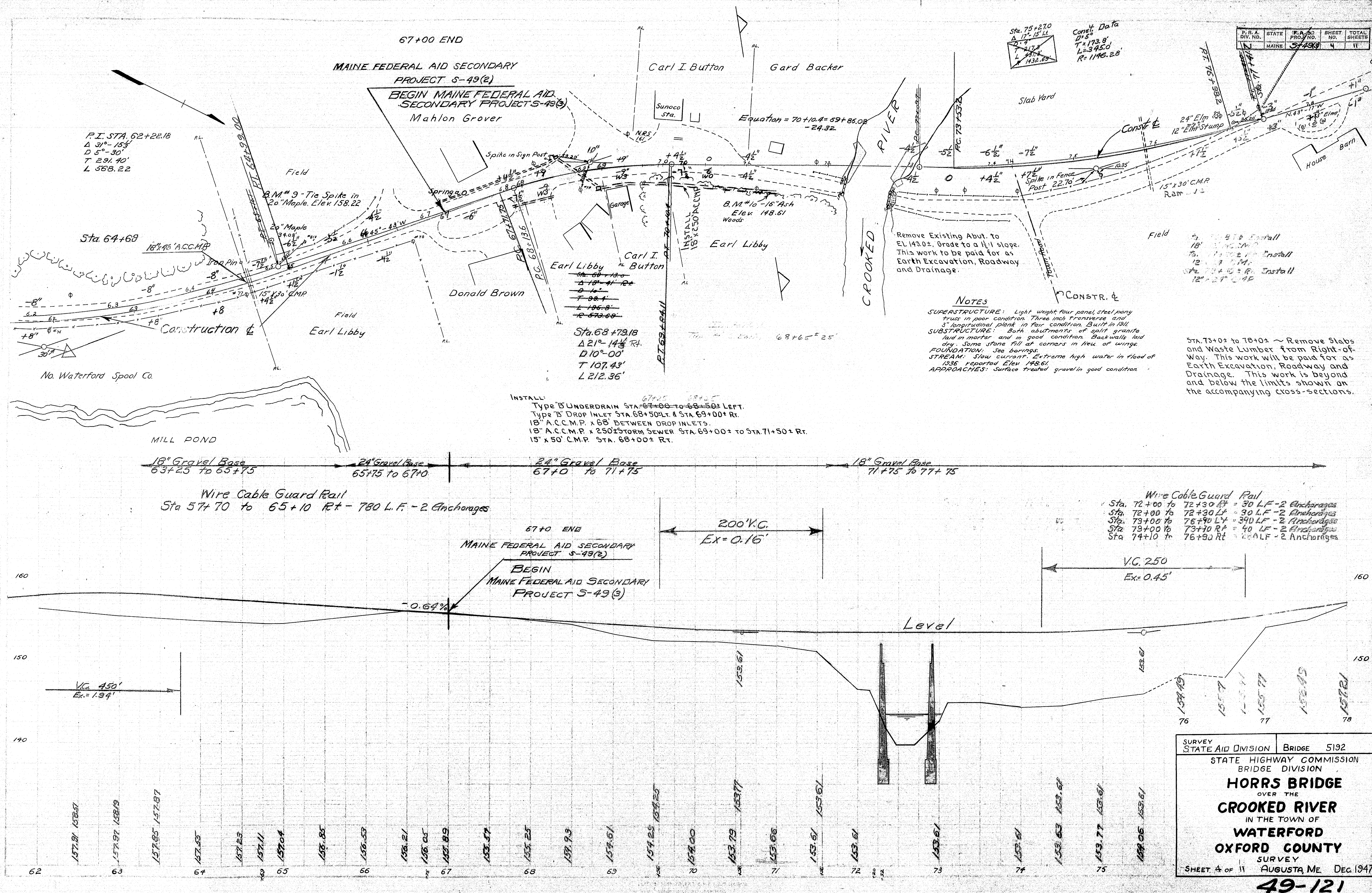
Figure 1 is a cross-sectional diagram of a concrete bridge deck. The total width is 2'-0" and the total height is 1'-0". The deck is composed of three horizontal layers: a top layer of 2" concrete, a middle layer of 4" concrete, and a bottom layer of 4" concrete. The bottom layer is labeled "3" TO 4" UNLESS OTHERWISE SHOWN ON PLANS". The bottom layer is also labeled "18" and "3".

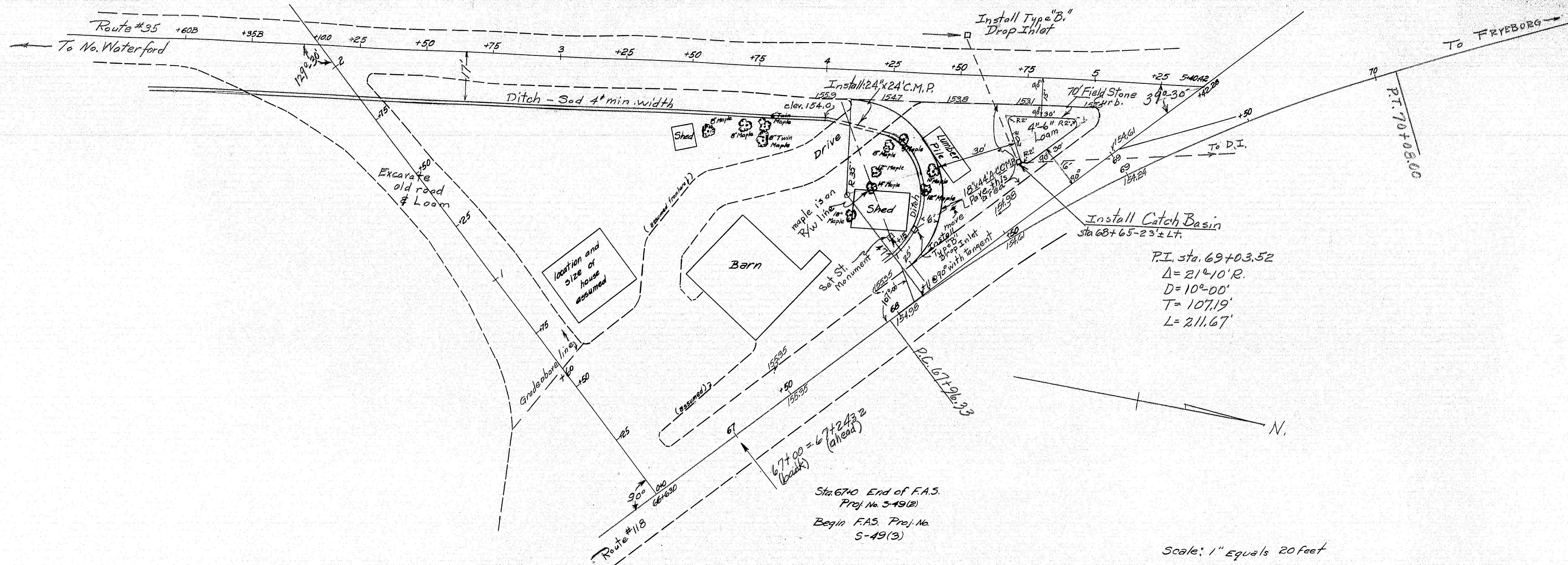
ADDITIONAL 15' GRAVEL BASE COURSE	CU.YDS. PER 100 L.F.
ADDITIONAL 18' GRAVEL BASE COURSE	CU.YDS. PER 100 L.F.
ADDITIONAL 24' GRAVEL BASE COURSE	CU.YDS. PER 100 L.F.
ADDITIONAL 30' GRAVEL BASE COURSE	CU.YDS. PER 100 L.F.



The diagram consists of two parts. The top part is a cross-section of a wall. It shows a sloped top surface labeled 'CONCRETE ROOFING' with a dimension of '15" ± 0" MIN.' for the thickness of the masonry at the top. The wall itself is labeled 'BATTERY PER FT. BATTERY 1/2 PER FT.' and is shown as a rough, textured surface. Below the wall is a horizontal line labeled 'OLD GROUND'. The bottom part is a plan view of a curved wall section. It is labeled 'DRY RUBBLE MASONRY' and shows a curved wall with a thickness dimensioned as '3" ± 0" MIN.'.



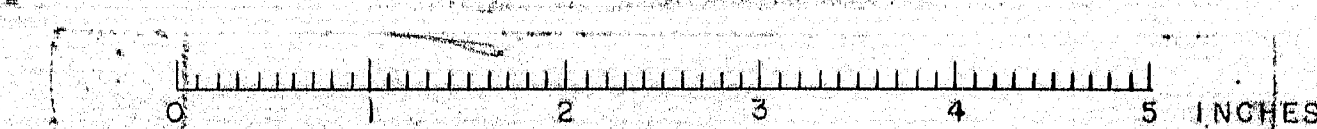




Scale: 1" Equals 20 feet

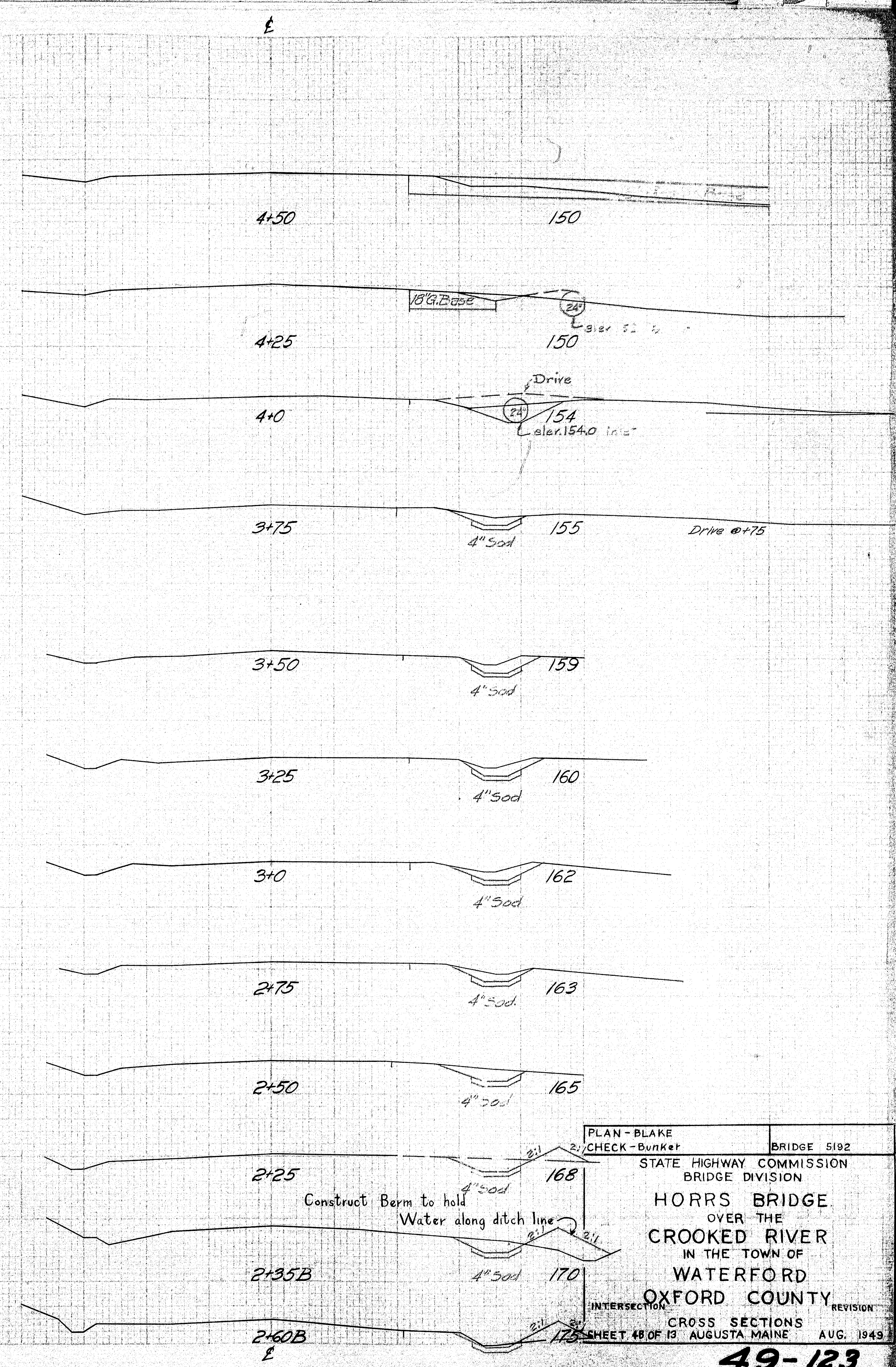
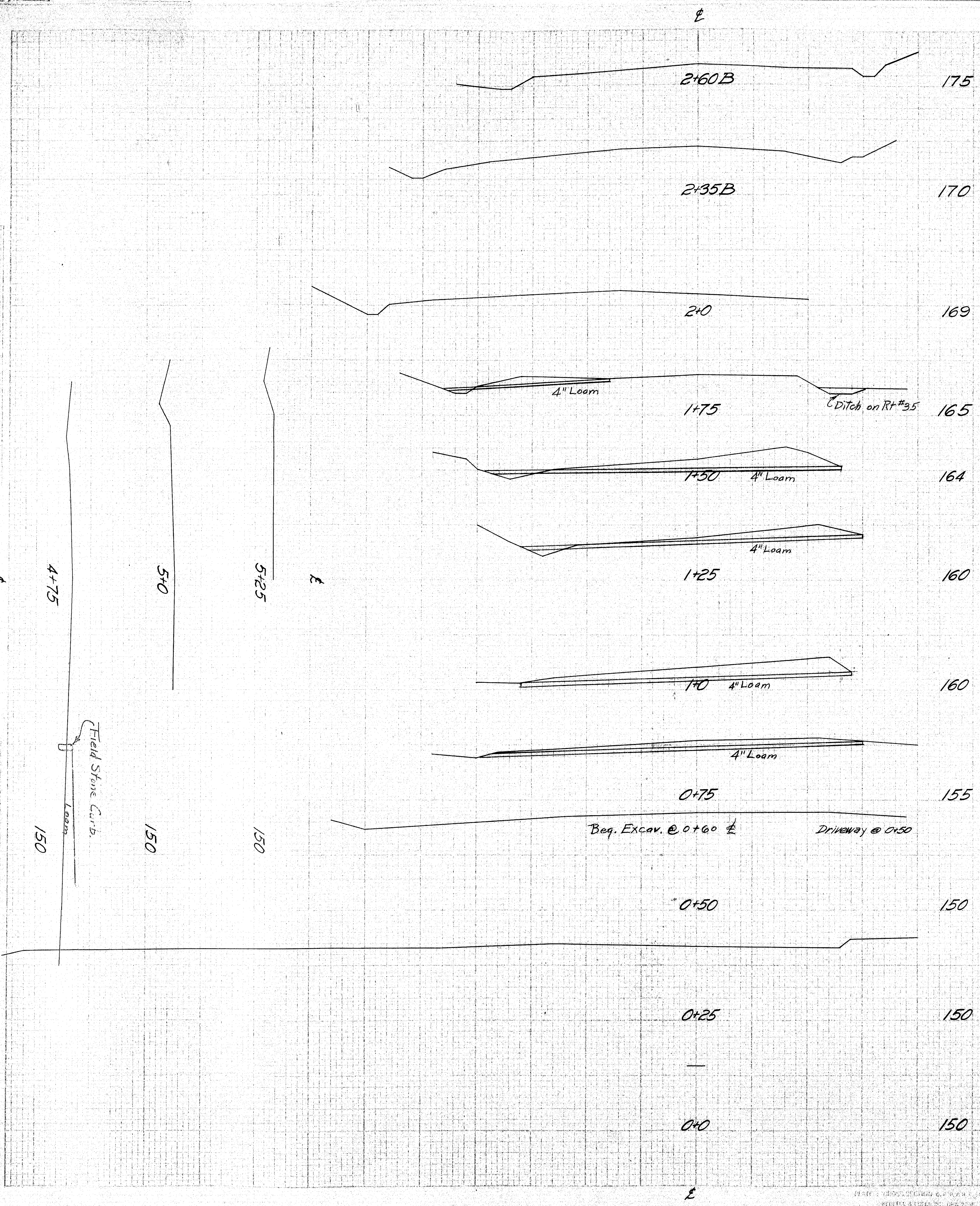
PLAN - BLAKE	BRIDGE 5192
CHECK - Bunker	
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
HORRS BRIDGE OVER THE CROOKED RIVER IN THE TOWN OF WATERFORD OXFORD COUNTY	
INTERSECTION REVISION - PLAN SHEET 4A OF 13, AUGUSTA, MAINE AUG. 1949	

49-122



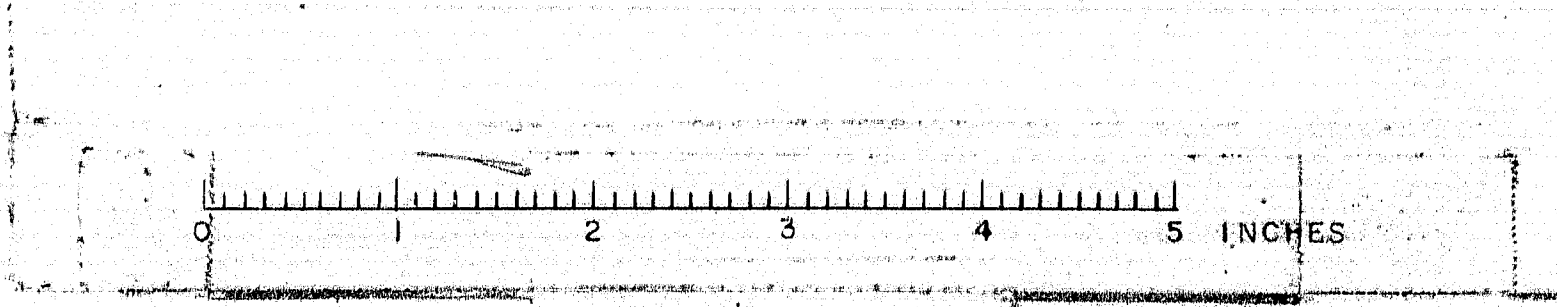
FINAL SURVEY
DATE: 10/1/43
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

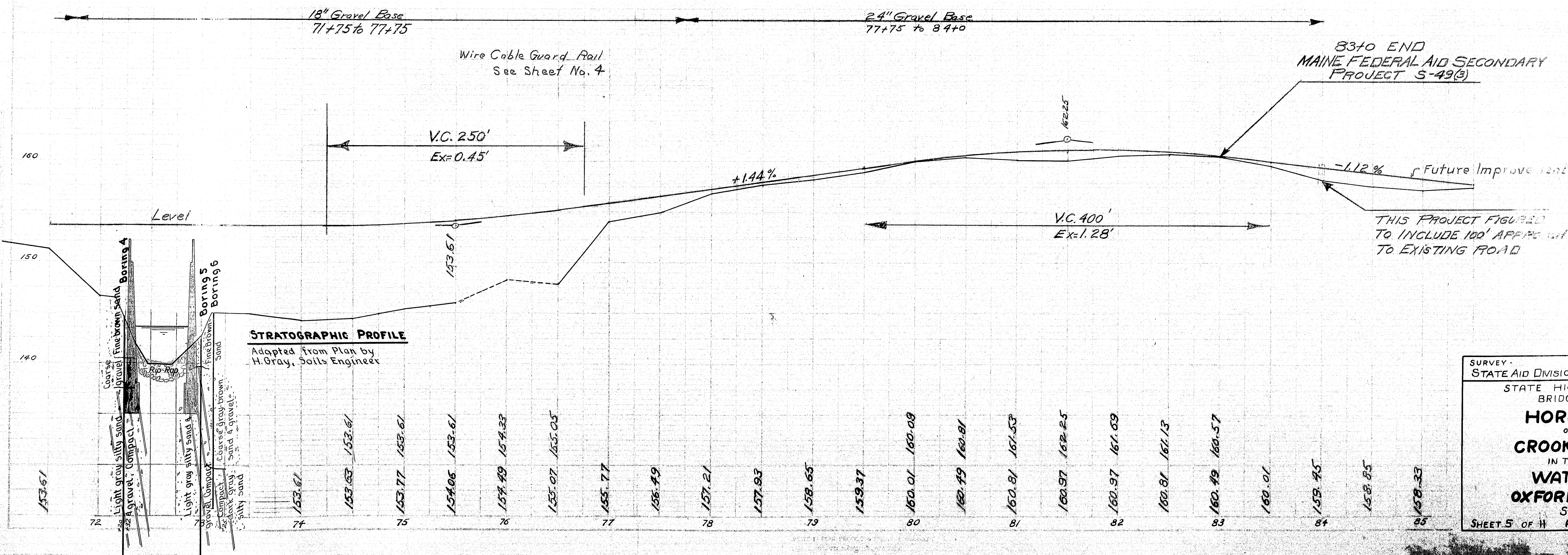
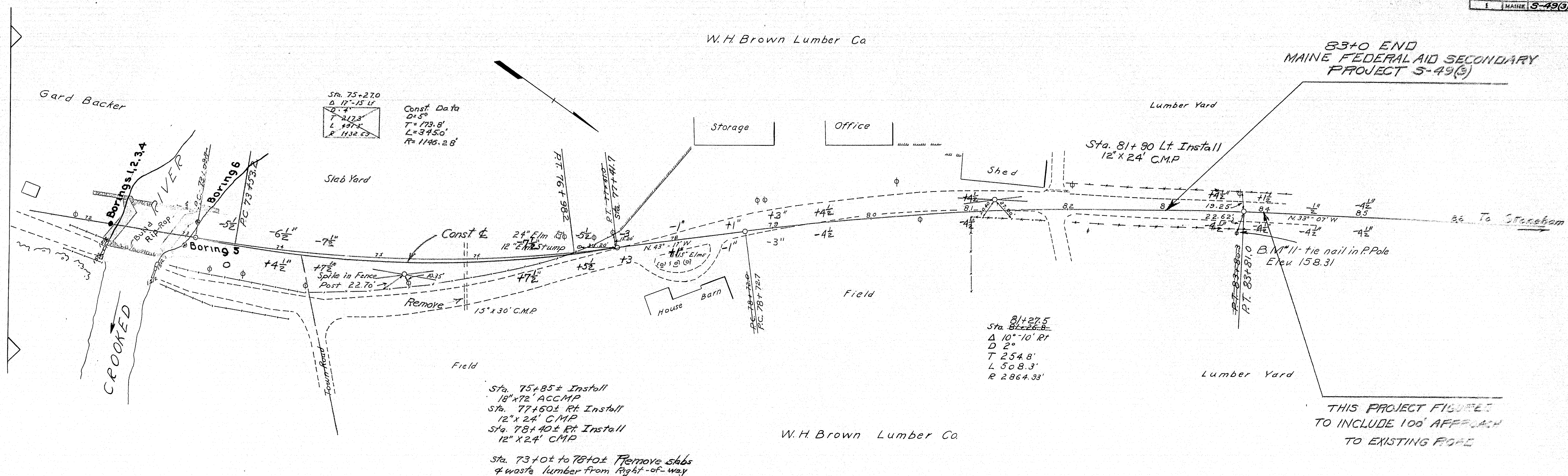
ORIGINAL SURVEY
DATE: 10/1/43
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]



PLAN - BLAKE
CHECK - Bunker
BRIDGE 5192
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
HORRIS BRIDGE
OVER THE
CROOKED RIVER
IN THE TOWN OF
WATERFORD
OXFORD COUNTY
INTERSECTION
CROSS SECTIONS
SHEET 48 OF 13 AUGUSTA MAINE
AUG. 1943

49-123





SURVEY -
STATE AID DIVISION

BRIDGE 5192

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

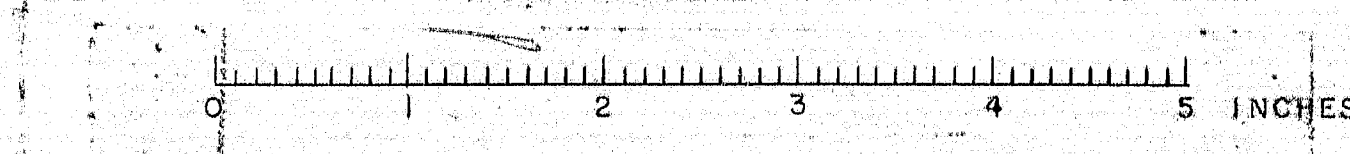
HORRS BRIDGE
OVER THE
CROOKED RIVER
IN THE TOWN OF
WATERFORD
OXFORD COUNTY
SURVEY

SHEET 5 OF 11 AUGUSTA ME. DEC. 1947

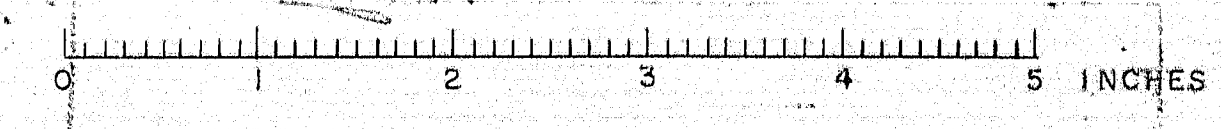
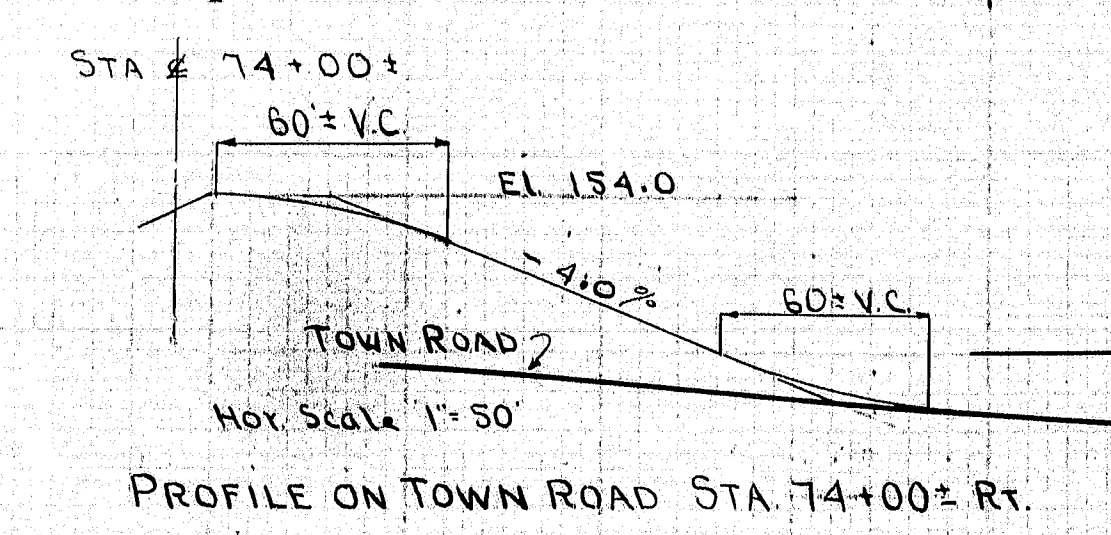
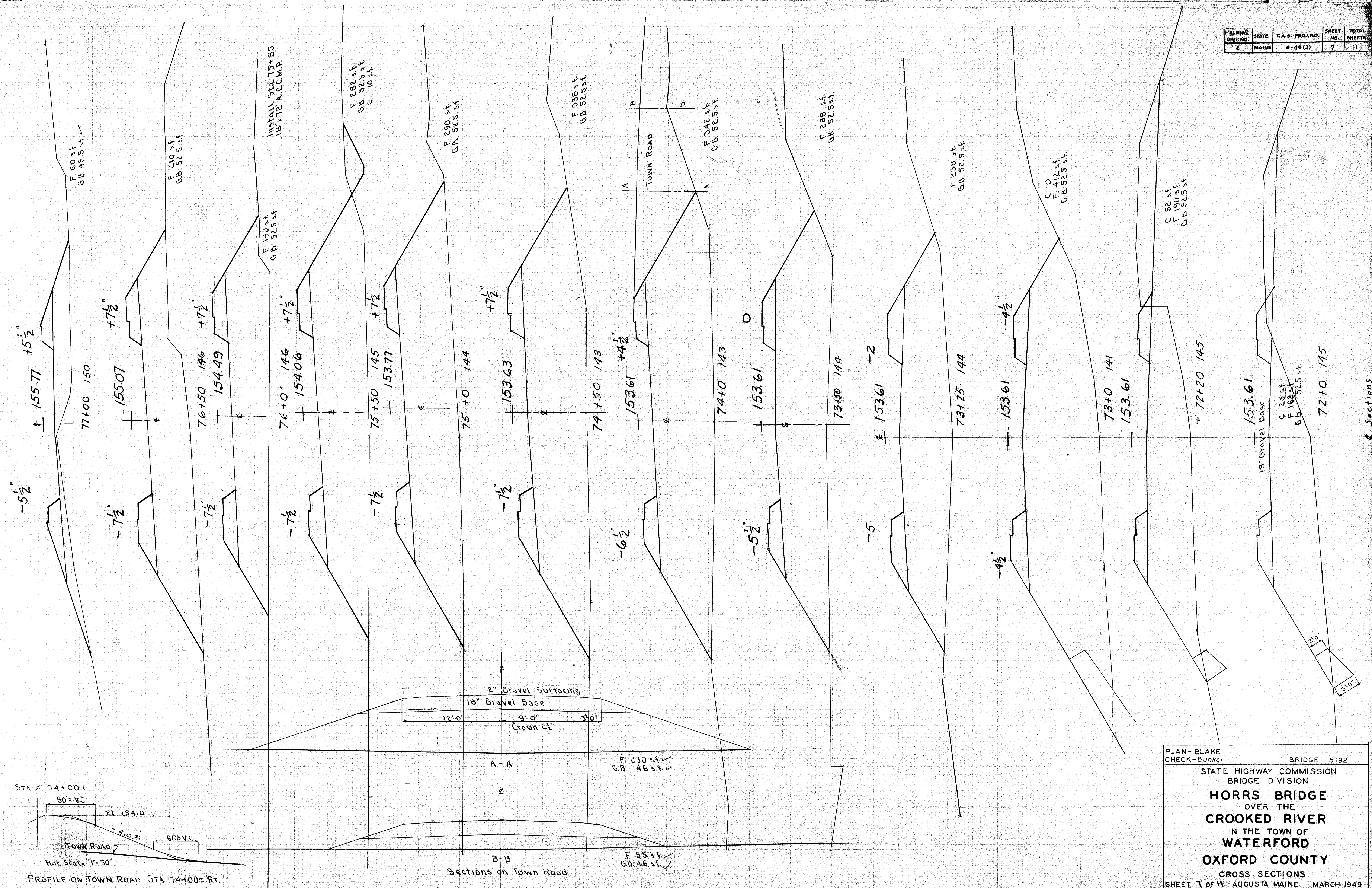
Hand-drawn engineering plan view of a road project. The drawing shows a road alignment with stationing from 15361 to 15557. Key features include:

- Gravel Bases:** Various widths (16 ft, 13 ft, 22 ft, 20 ft, 15 ft) and lengths are indicated along the alignment.
- Drop Inlets:** Several drop inlets are shown, some with gravel bases (e.g., "Install Drop Inlet with Gravel Base (ahead) 12 sf").
- Type B Underdrains:** Two Type B underdrains are shown, one with a gravel base (17 sf) and another with a gravel base (10 sf).
- Slopes:** Slope percentages are noted along the alignment, including 4 1/2%, 0%, -6%, -7 1/2%, -9%, -9 1/2%, and -6%.
- Stationing:** Stationing markers are provided at intervals, such as 15361, 15377, 15400, 15429, 15461, 15493, 15525, and 15557.
- Offset Measurements:** Offset measurements are given for various points, including 71+50, 71+0, 70+50, 70+0, 69+50, 69+0, 68+50, 68+0, 67+50, and 67+0.
- Gravel Base Areas:** Calculated areas for gravel bases are noted, such as C 26 sf, F 22 sf, GB 64.8 sf, C 20 sf, F 18 sf, GB 64.8 sf, C 25 sf, GB 64.8 sf, C 35 sf, GB 64.8 sf, C 30 sf, GB 70.8 sf, C 55 sf, GB 70.8 sf, C 80 sf, F 4 sf, GB 10.8 sf, C 90 sf, GB 64.8 sf, and C 100 sf, GB 64.8 sf.
- Notes:** A note at the bottom left mentions "Sill Sunoco Sta." and a note at the bottom right mentions "Type B Underdrain".

49-125



DIST. NO.	STATE	P.A.S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	6-49(3)	7	11



PLAN - BLAKE
CHECK - Bunker

BRIDGE 5192

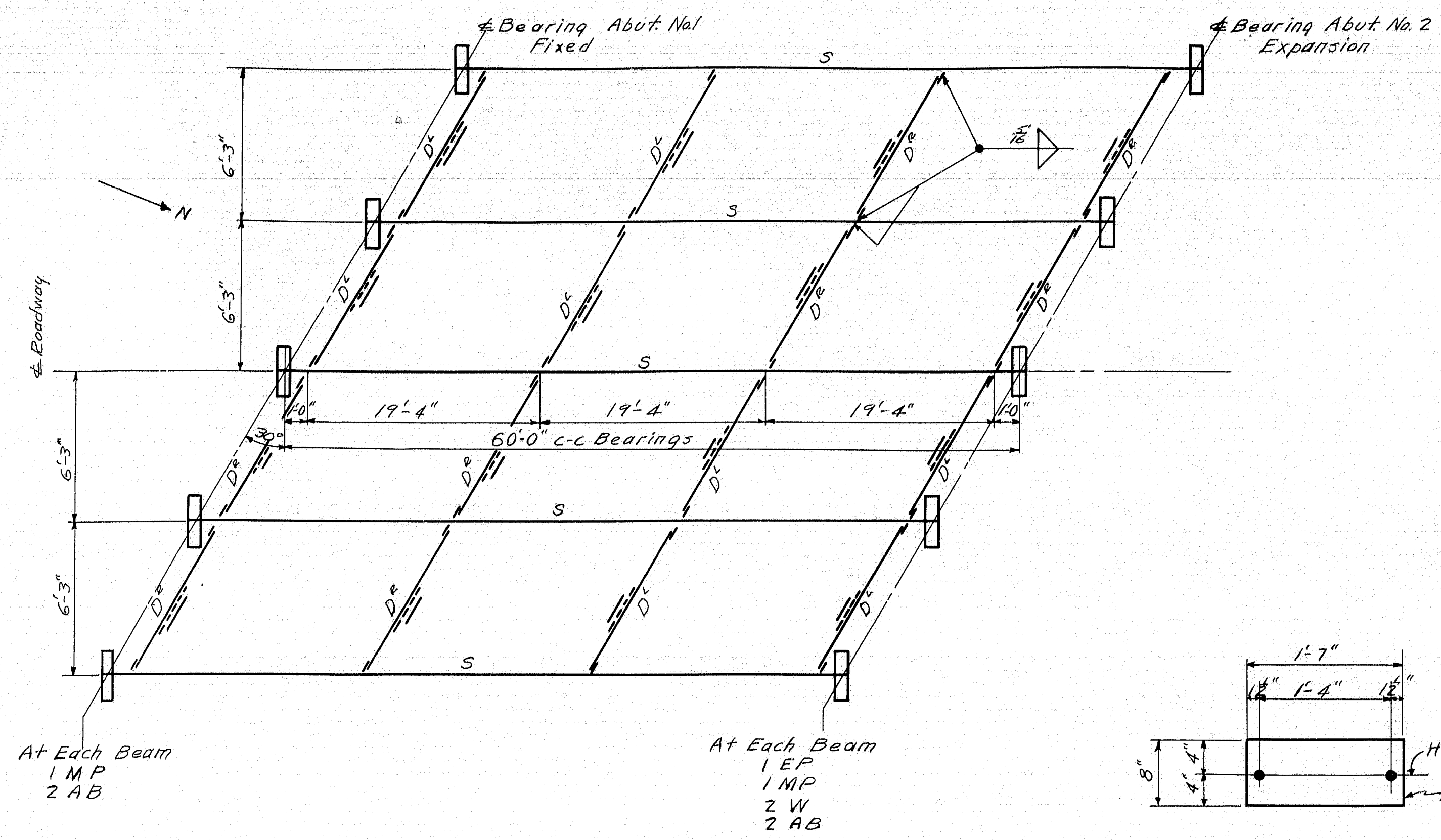
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

HORRS BRIDGE
OVER THE
CROOKED RIVER
IN THE TOWN OF
WATERFORD
OXFORD COUNTY

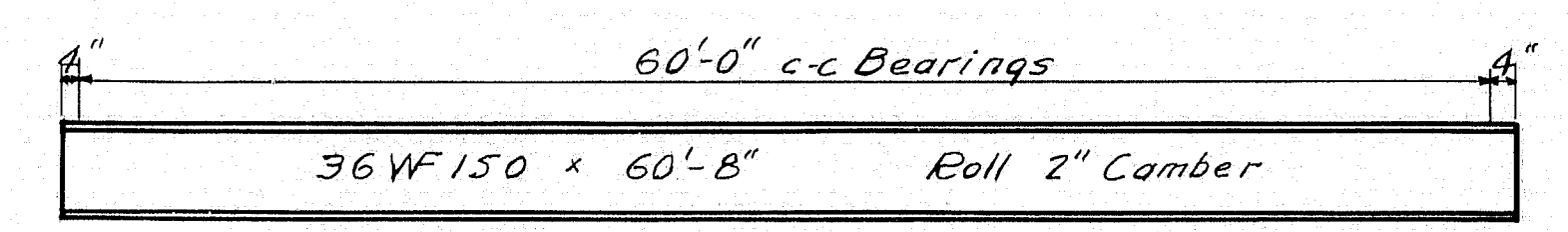
CROSS SECTIONS
SHEET 7 OF 11 - AUGUSTA MAINE MARCH 1949

49-126

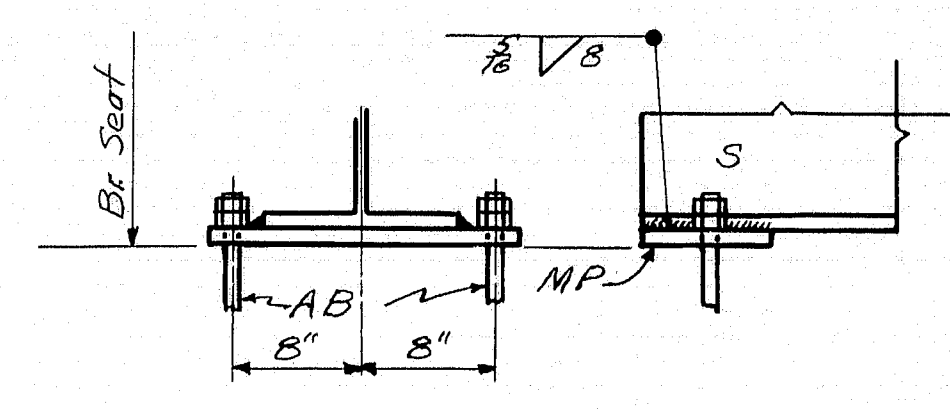
P.A. NO.	STATE	P.A. NO.	SHEET NO.	TOTAL SHEETS
1	MAINE	5-49	11	11



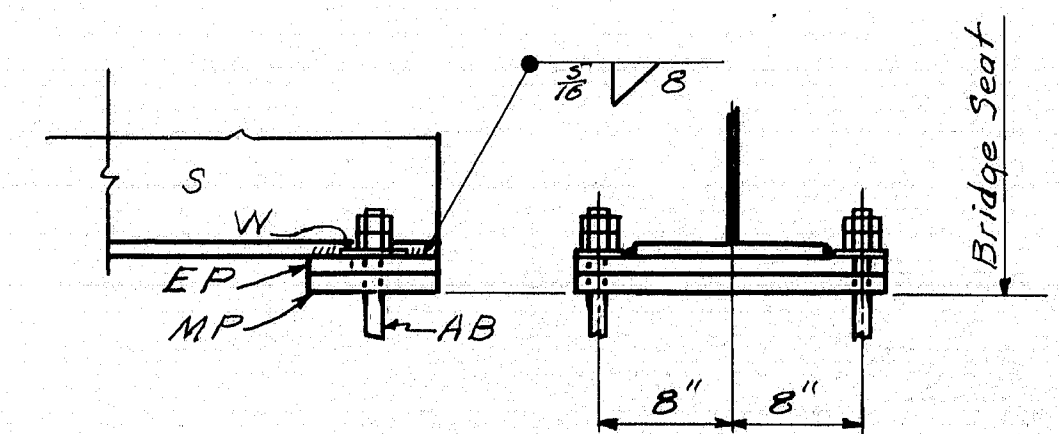
ERECTION DIAGRAM



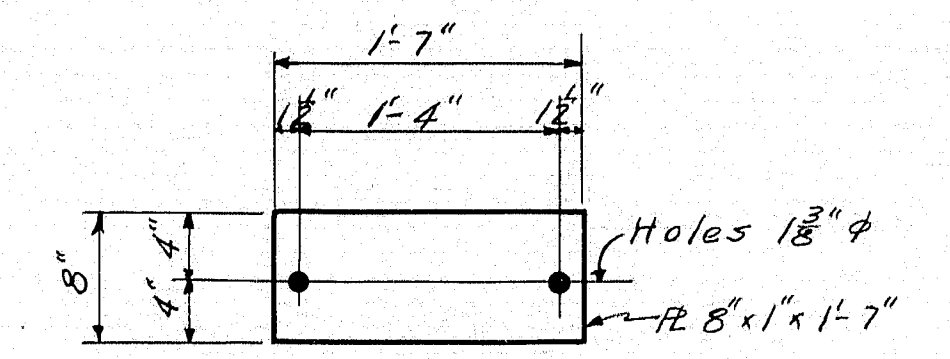
S
5 Req'd



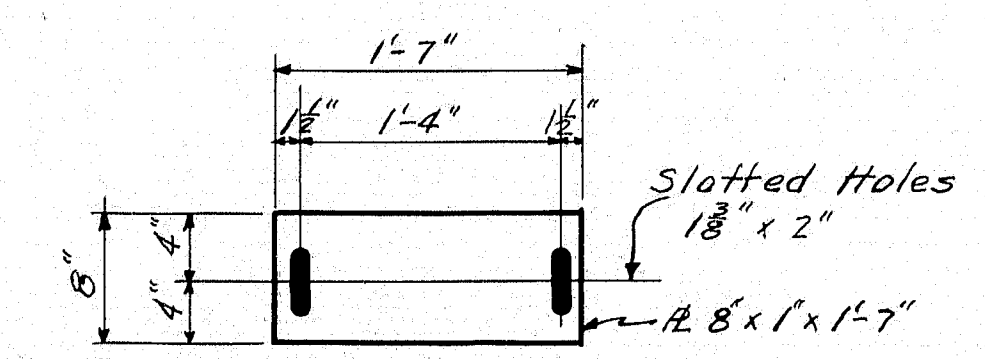
FIXED BEARING



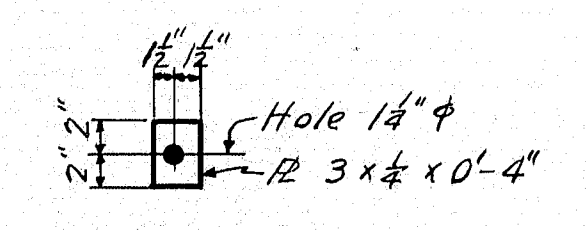
EXPANSION BEARING



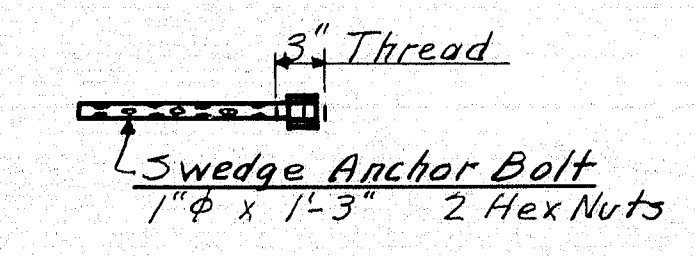
MP
10 Req'd



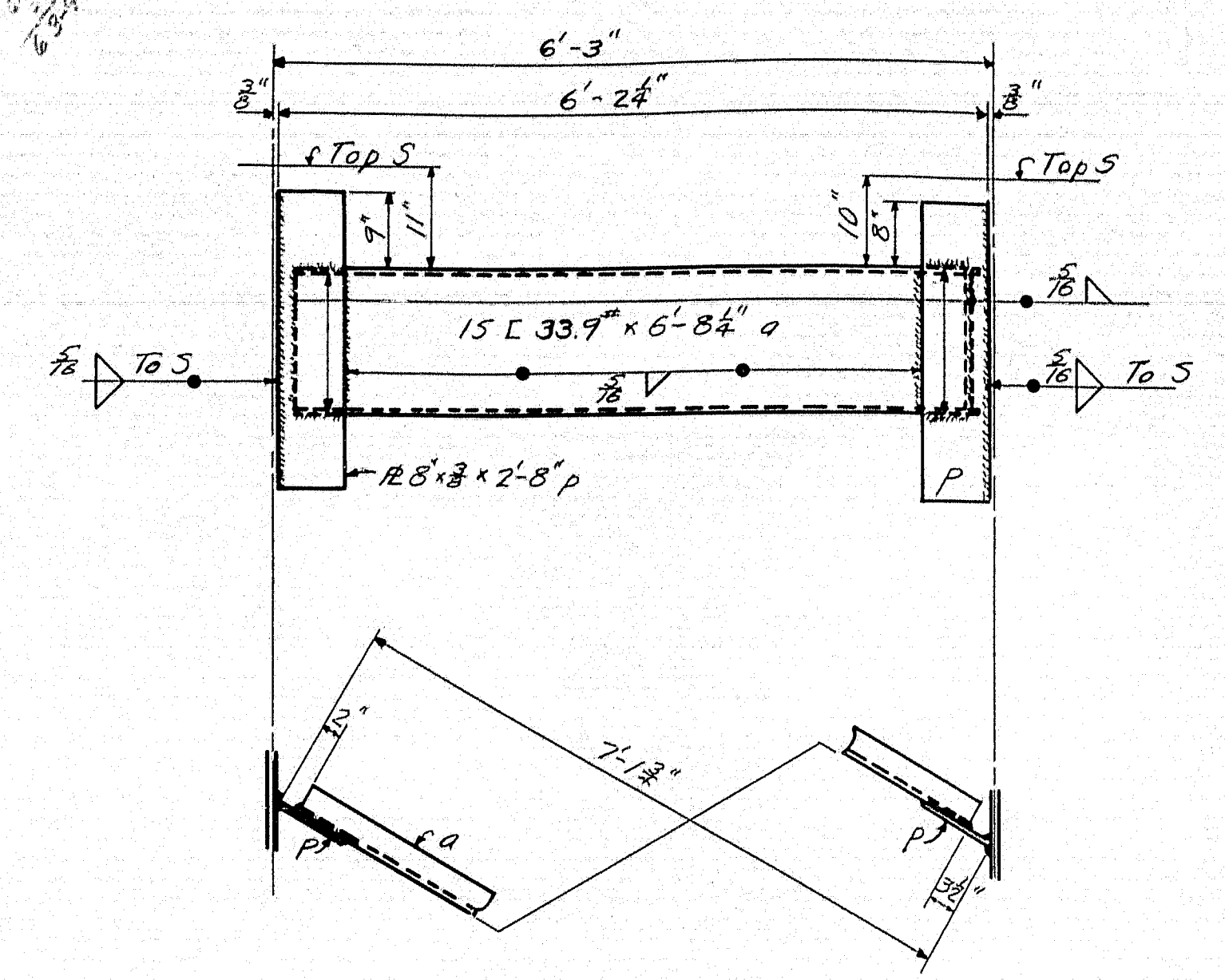
EP
5 Req'd



W
10 Req'd



AB
20 Req'd



DIAPHRAGM ASSEMBLY

Req'd: 16 - 15 L 33.9 x 6'-8 1/4"
32 - 12 8 x 2'-8"

SPECIFICATIONS
State of Maine, State Highway Commission
Bridge Division, Steel Highway Bridges, Nov. 1945.

DESIGN-BROOKS TRACE-DANFORTH CHECK-Dale	BRIDGE - 5192
STATE HIGHWAY COMMISSION BRIDGE DIVISION	
HORRIS BRIDGE OVER CROOKED RIVER IN THE TOWN OF WATERFORD OXFORD COUNTY STRUCTURAL STEEL	
SHEET 11 OF 11 AUGUSTA, MAINE, FEB. 1949	

49-130

