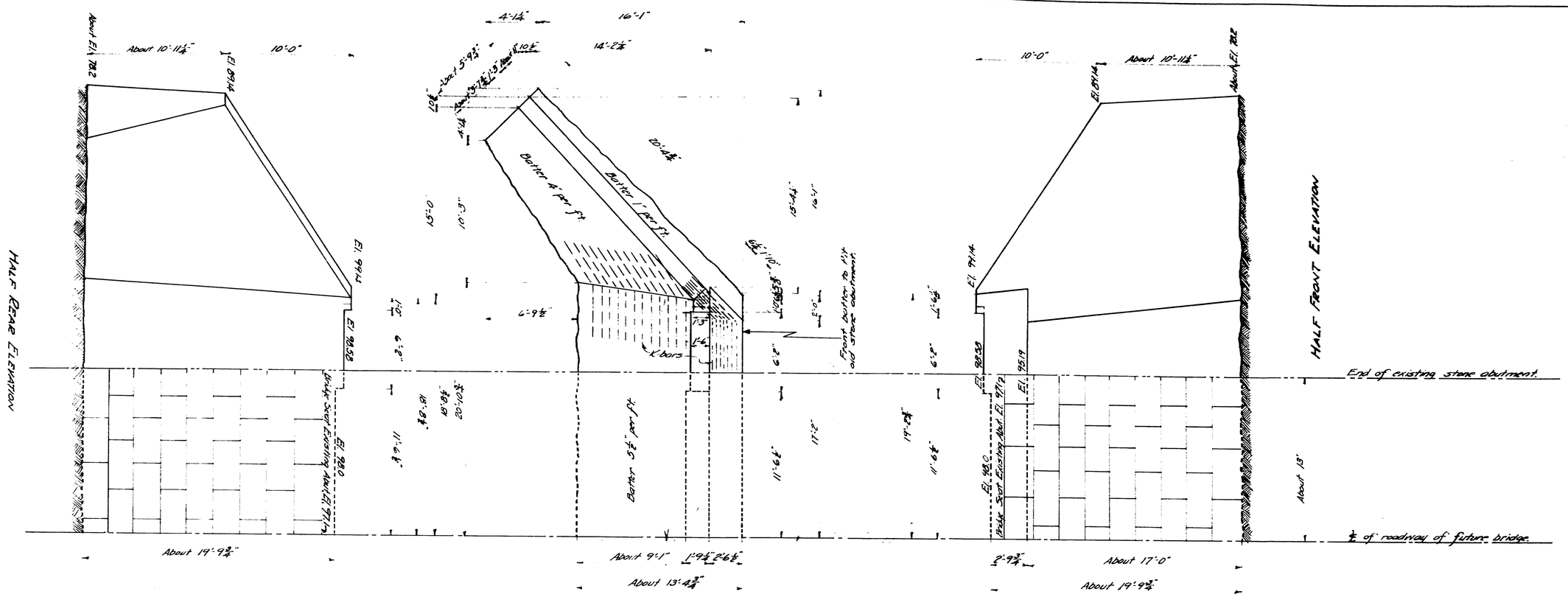
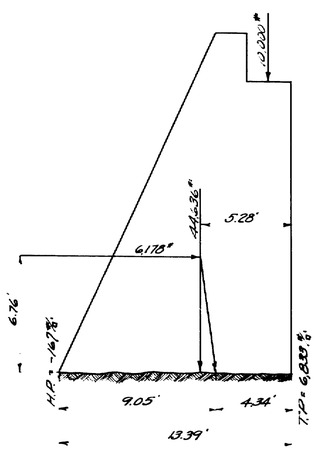
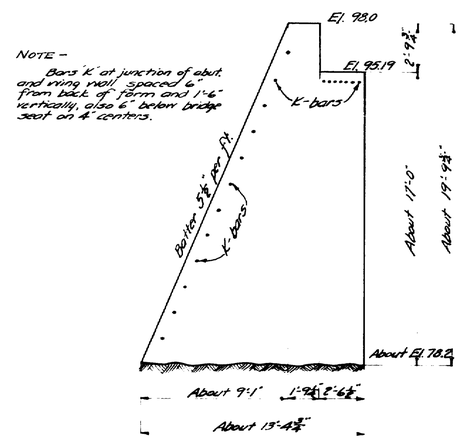


Plan Downstream Half Abut. No. 1.



Abut. Analysis



Abut. Section

NOTE –
Bars 'K' at junction of abut. and wing wall, spaced 6" from back of form and 1'-6" vertically, also 6" below bridge seat on 4" centers.

Steel Schedule				
Mark	Size	No. Req.	Length	Location
K	¾"ϕ	19	8'-0"	Abut.

Steel to be plain rounds, structural grade.

Maine Highway Commission
Bridge Division

Webb River Bridge

Between the towns of

Dixfield and Mexico

Oxford Co.

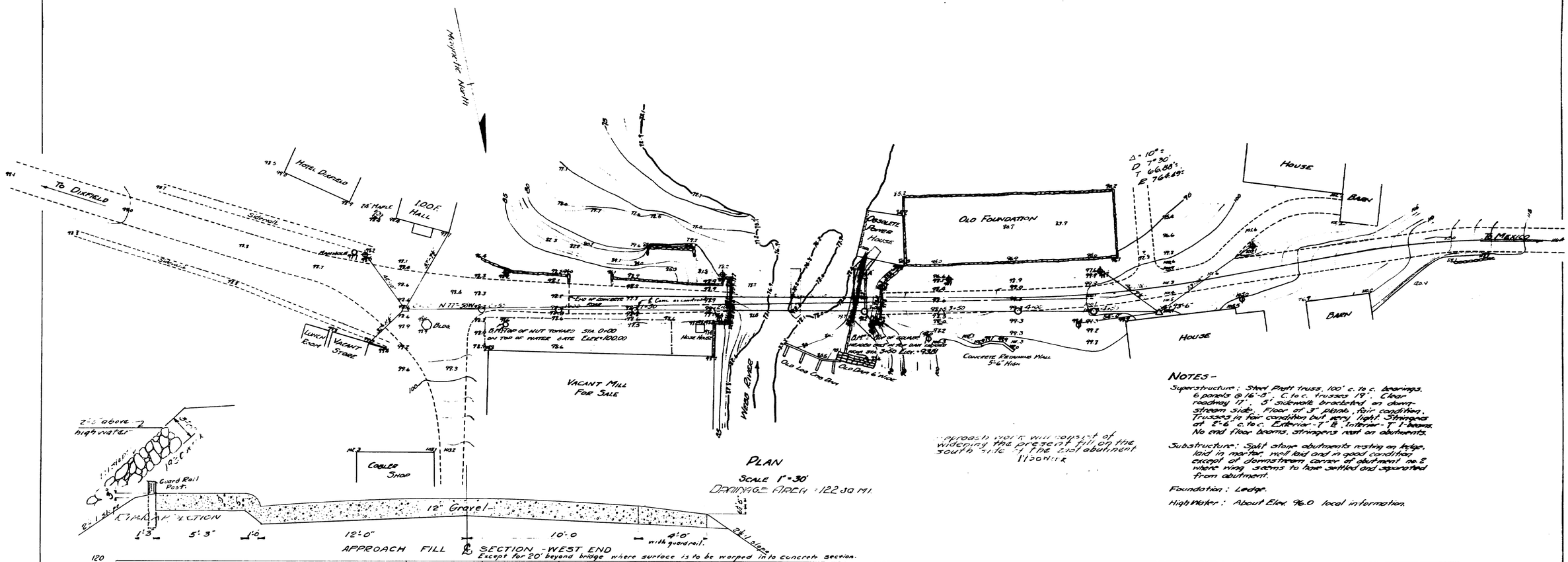
Abutment Plan

Sheet 2 of 2 Augusta, Maine. Feb. 4, 1930.

Plan by H.H.S.
Checked by C.A.W.

0 1 2 3 4 5 Inches

20-46



PLAN

SCALE 1" = 30'

DRAINAGE AREA = 122.30 MI.

PROFILE ALONG ℄ OF ROAD

SCALES: H - 1" = 30'
V - 1" = 10'

NOTES -

Superstructure: Steel Pratt truss, 100' c. to c. bearings, 6 panels @ 16'-8"; C. to c. trusses 19'. Clear roadway 17'. 5' sidewalk bracketed on downstream side. Floor of 3" plank, fair condition. Trusses in fair condition but very light. Stringers at 2'-6" c. to c. Exterior - 7" E. Interior - 7" I-beams. No end floor beams, stringers rest on abutments.

Substructure: Split stone abutments resting on ledge, laid in mortar, well laid and in good condition except at downstream corner of abutment no. 2 where wing seems to have settled and separated from abutment.

Foundation: Ledge.

High Water: About Elev. 96.0 local information.

MAINE HIGHWAY COMMISSION
BRIDGE DIVISION

WEBB RIVER BRIDGE

BETWEEN THE TOWNS OF

DIXFIELD AND MEXICO

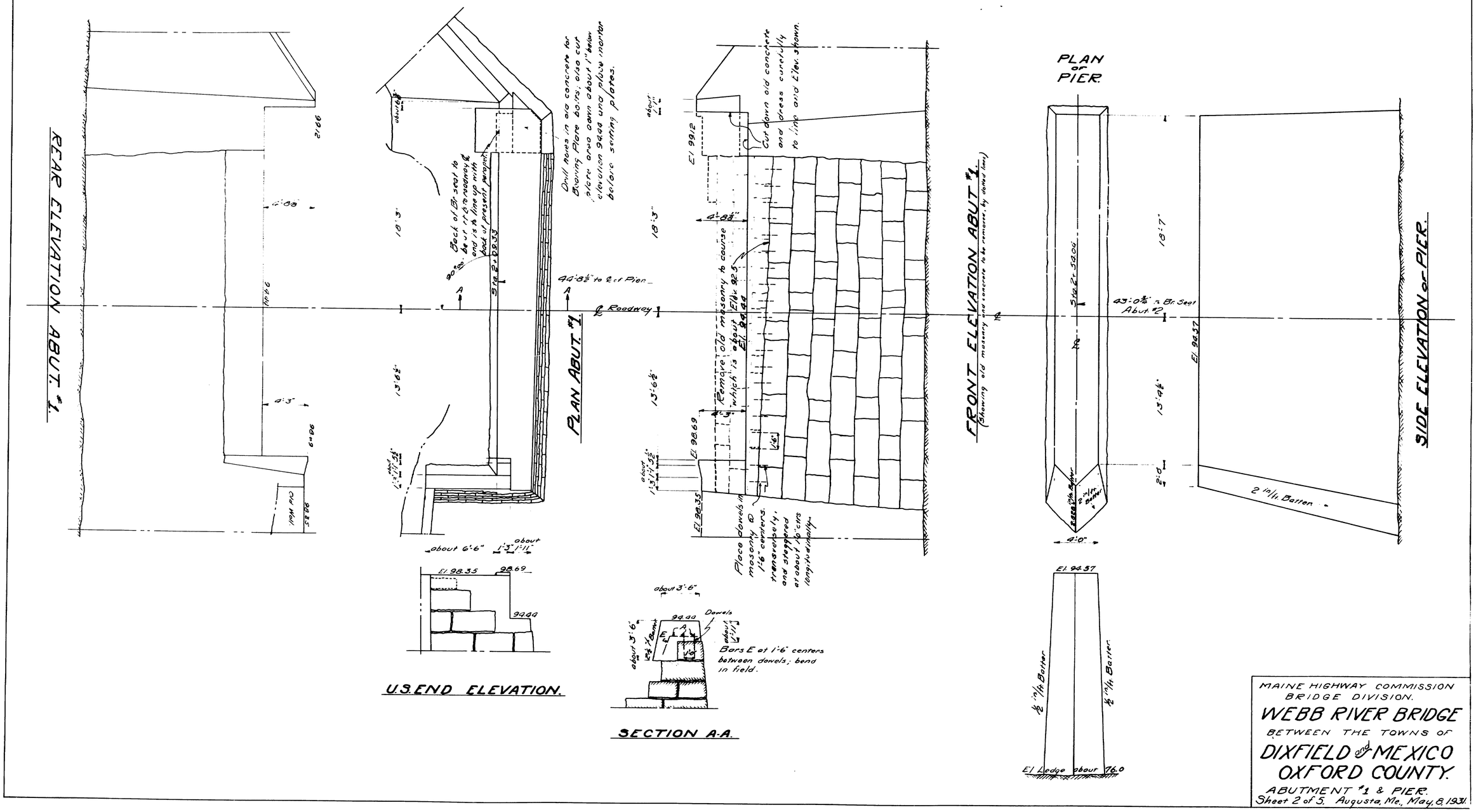
OXFORD CO.

SURVEY PLAN Made May 8, 1931. Rev. Jan. 20, 1930.

SHEET 1 OF 5. AUGUSTA, MAINE.

20-49

0 1 2 3 4 5 INCHES



MAINE HIGHWAY COMMISSION
BRIDGE DIVISION.

WEBB RIVER BRIDGE

BETWEEN THE TOWNS OF

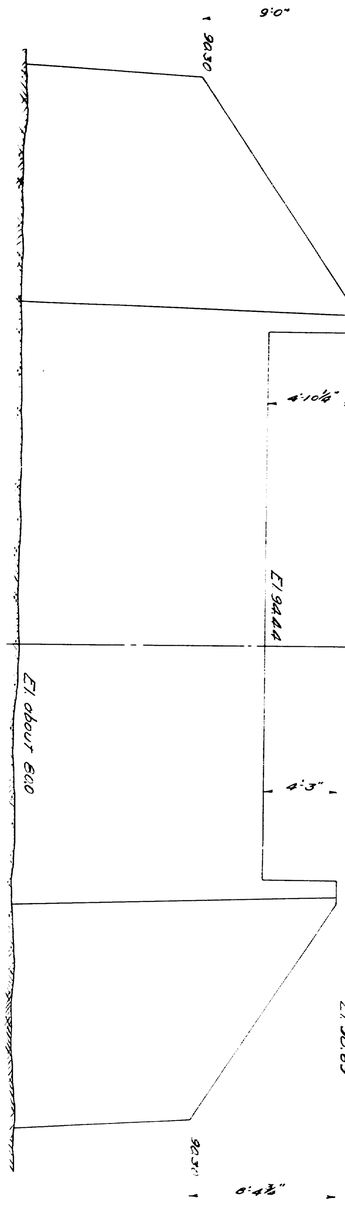
DIXFIELD and MEXICO
OXFORD COUNTY.

ABUTMENT #1 & PIER.

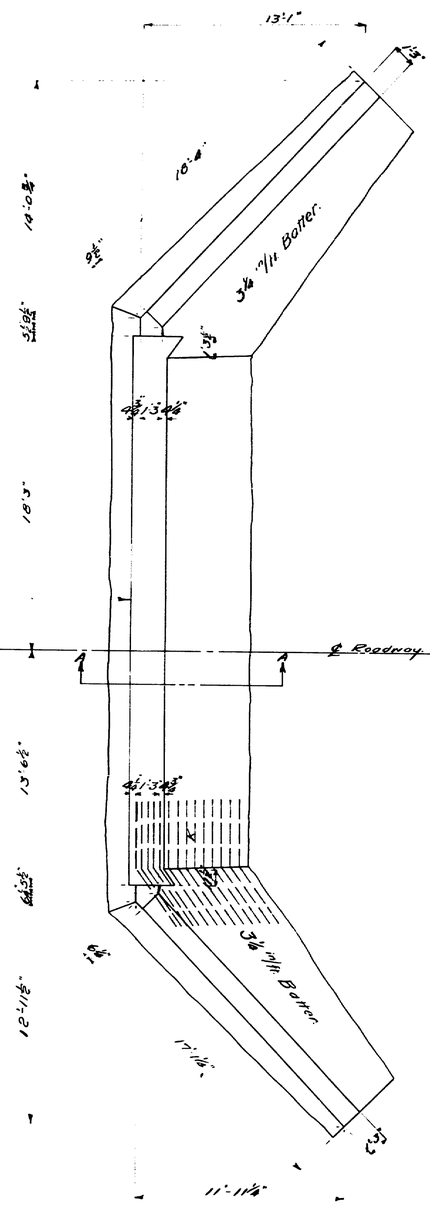
Sheet 2 of 5. Augusta, Me., May, 8, 1931.

20-50

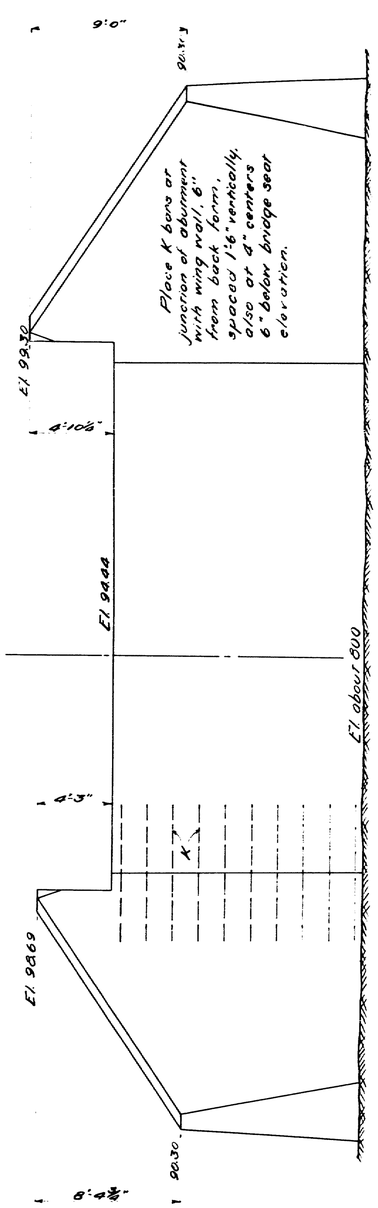
0 1 2 3 4 5 INCHES



FRONT ELEVATION ABUT. #2.



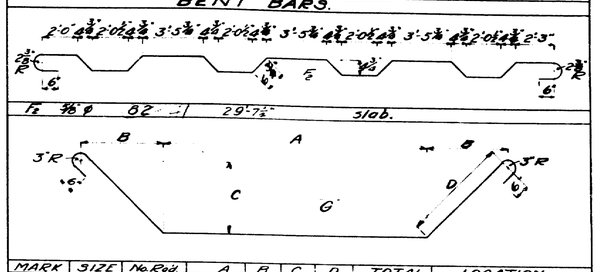
PLAN ABUT. #2.



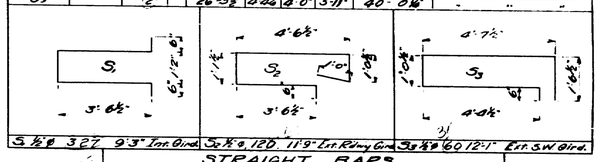
REAR ELEVATION ABUT. #2.

STEEL SCHEDULE.

BENT BARS.



MARK	SIZE	No. Rod	A	B	C	D	TOTAL	LOCATION.
G3	1"ø	12	36'-7"	3'-3"	2'-0½	4'-4⅝	47'-10½"	Interior Girders.
G4	"	12	30'-7"	3'-0"	2'-7¾	4'-0"	41'-1⅝"	" " "
G5	"	12	24'-7"	3'-0"	2'-7¾	4'-0"	33'-1⅝"	" " "
G6	"	8	35'-2"	4'-4⅝	4'-0"	5'-11"	49'-6⅝"	Ext. Roadway "
G7	"	8	26'-5⅝"	4'-4⅝	4'-0"	5'-11"	40'-0½"	" " "
G8	⅞"ø	4	35'-2"	4'-4⅝	4'-0"	5'-11"	49'-6⅝"	Ext. Sidewalk Girder
G9	"	2	26'-5⅝"	4'-4⅝	4'-0"	5'-11"	40'-0½"	" " "

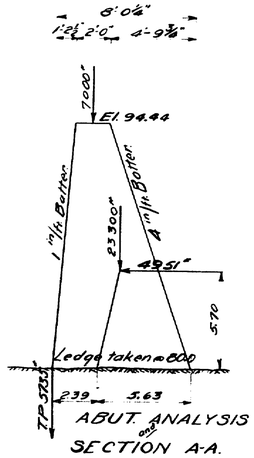


S ½"ø 327 9'-3" Int. Gird. S2 ½"ø 120 11'-9" Ext. Rdwy. Gird. S3 ½"ø 60 12'-1" Ext. SW Gird.

STRAIGHT BARS.

MARK	SIZE	No. Rod	LENGTH	LOCATION.
A	⅝"ø	3	32'-0"	Abutment #1 Cap.
B	1"ø	18	31'-0"	Cross Beams
D	⅝"ø	38	1'-0"	Abut. #1 and Lt. Posts.
E	⅝"ø	22	4'-0"	Abut. #1 Cap.
F	½"ø	160-D	26'-5"	Roadway Slab
F1	½"ø	20	43'-9"	" "
F2	½"ø	268	12'-5'-11½"	Sidewalk "
G	1⅛"ø	24	44'-6"	Interior Girders
G2	1"ø	34	44'-6"	All Girders.
K	⅝"ø	28	8'-0"	Abut. #2 wings.
P	⅝"ø	80	4'-9"	Posts.
R	⅝"ø	48	11'-8"	Rail
R2	⅝"ø	468-L	4'-6"	"
T	½"ø	50	43'-9"	Wearing Surface.
T2	½"ø	90	23'-9"	" "

All steel to be plain round or square bars of structural grade. Dimensions to ℄ of bars.



ABUT. ANALYSIS
SECTION A-A.

MAINE HIGHWAY COMMISSION
BRIDGE DIVISION.

WEBB RIVER BRIDGE

BETWEEN THE TOWNS OF

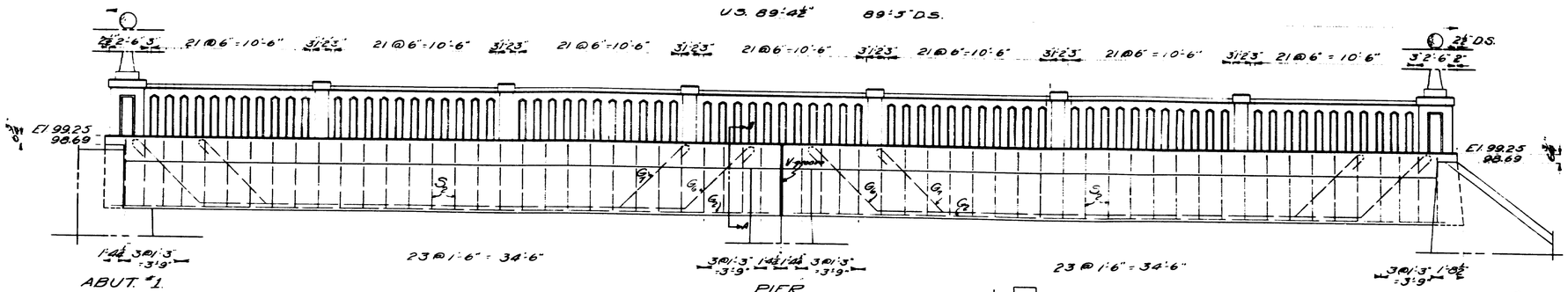
DIXFIELD and MEXICO
OXFORD COUNTY.

ABUTMENT #2 & STEEL.
Sheet 3 of 5. Augusta, Me., May, 8, 1934.

Designed — Cole
Checked — W.H.H.

20-51

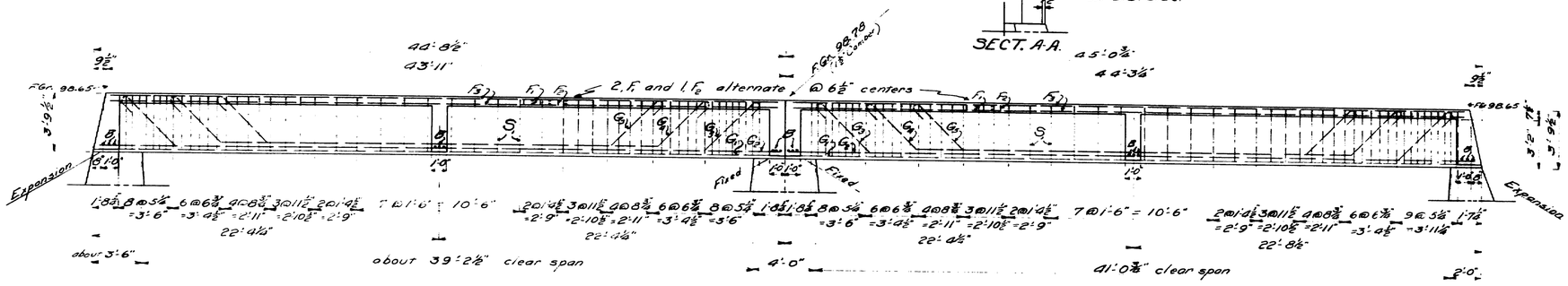
0 1 2 3 4 5 INCHES



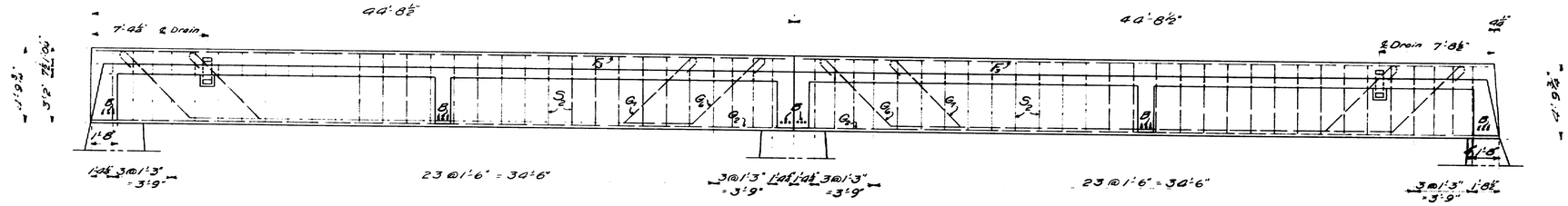
SIDE ELEVATION U.S. GIRDER.

Similar offset over Pier on D.S. side.

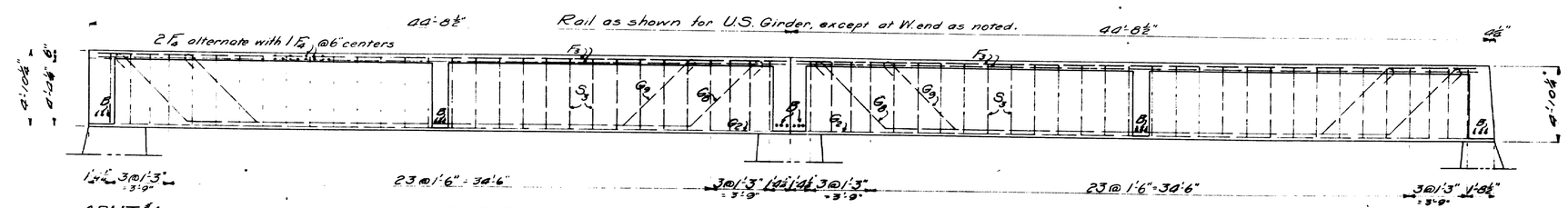
SECT. A-A.



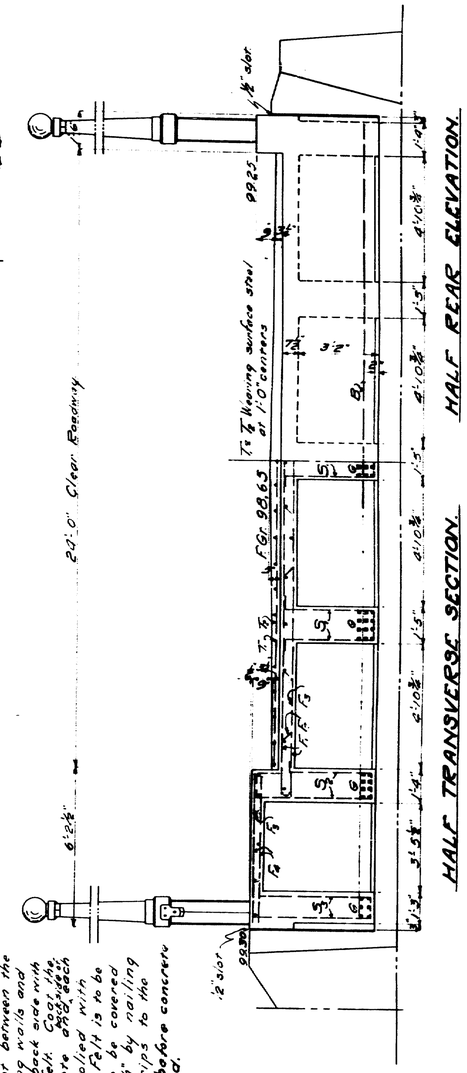
LONGITUDINAL SECTION, INTERIOR GIRDERS.



LONGITUDINAL SECTION, INTERIOR SIDEWALK GIRDER.



LONGITUDINAL SECTION, EXTERIOR SIDEWALK GIRDER.



Note:— Cover the ½" slot between the superstructure and wing walls and the 2" opening on the back side with 2 layers of roofing felt. Coat the surface of the concrete and each layer of felt as applied with hot tar or asphalt. Felt is to be 10" wide. The area to be covered is to be recessed ½" by nailing thin strips to the forms, before concrete is placed.

Design by
Checked - Will

MAINE HIGHWAY COMMISSION
BRIDGE DIVISION.

WEBB RIVER BRIDGE

BETWEEN THE TOWNS OF

DIXFIELD and MEXICO
OXFORD COUNTY.

SUPERSTRUCTURE.

Sheet 4 of 5. Augusta, Me., May 22, 1931.

20-52

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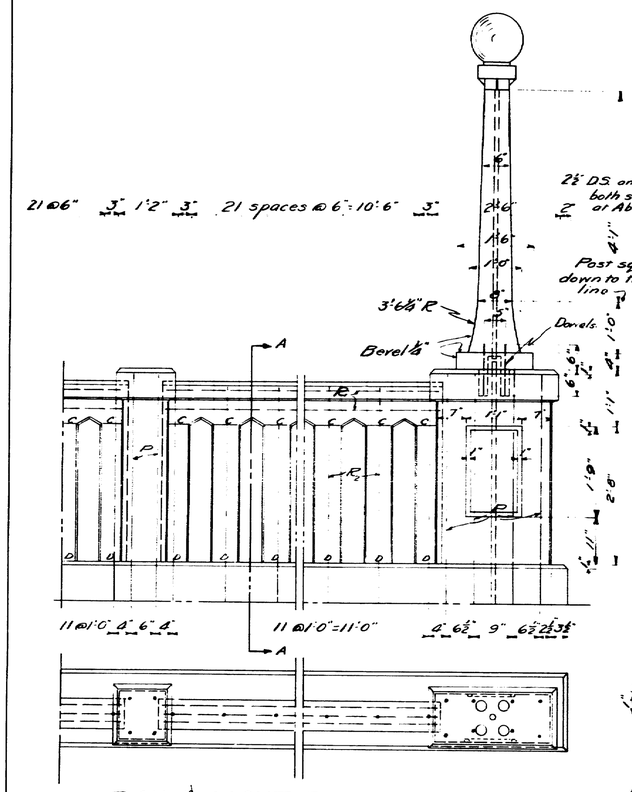
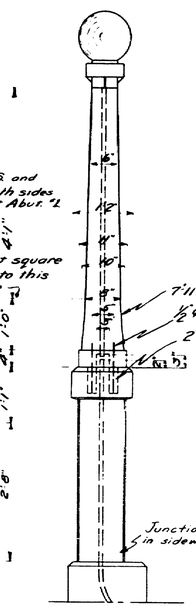
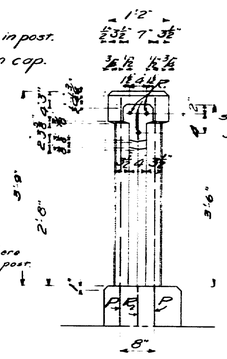
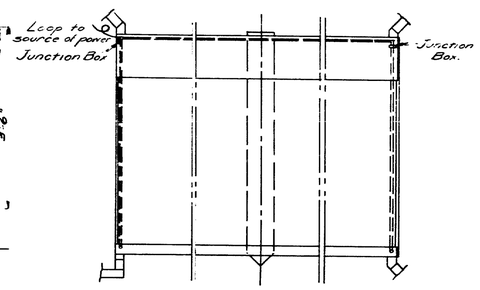


RAIL and LIGHT POST DETAIL.



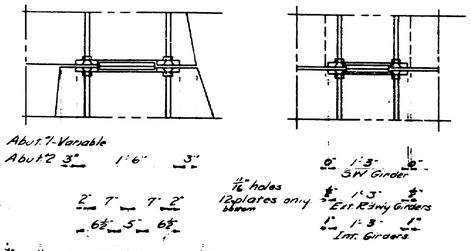


SECTION AA.



PLAN of CONDUIT LAYOUT.

Note:— Sidewalk and curb to be cast with exterior girders above construction joint. Place steel P for posts and R for rail in curb and sidewalk at points C and D, between each opening, break bond in concrete by placing there one layer of roofing felt cut to fit the forms, and slipped down over the reinforcing rods when concrete reaches these points. After end forms have been removed wrap the end of each rail 6" with 2 layers of roofing felt, fold in ends and build post forms so that the rails extend into forms 1½". When post forms are removed, cut away all exposed felt. All roofing felt to be 2 ply. All edges of concrete to be chamfered ½ in. unless otherwise indicated.

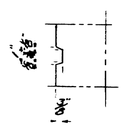


machine shaded area 3/16" deep.

Required—
24 steel plates 1'6" x 3/8" x 1'3"
24 phosphor bronze plates 10" x 3/8" x 9"
96 Bolts, 3/8" x 1'0" csk heads, threaded full length with nuts. Grooves in steel plates to be cut 3/32" to 1/8" deeper to allow machining of bed area. Bronze plates to be finished smooth and true, either by rolling or by a final finishing cut.

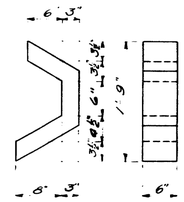
EXPANSION BEARING DETAILS.

Note:— Expansion plates will be furnished by the Commission, F.O.B. nearest R.R. Sta.

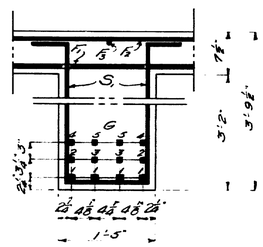


PANEL DETAIL on LIGHT POST.

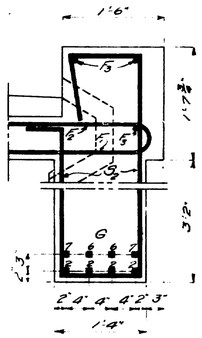
Note:— Bends in conduit pipe shall be made by filling the pipe with sand and compact the sand by tapping the pipe; heat the pipe and bend while hot. Sand must be thoroughly dry before using. All burs on pipe shall be removed by reaming or filing. All conduit pipe is to be 1¼".



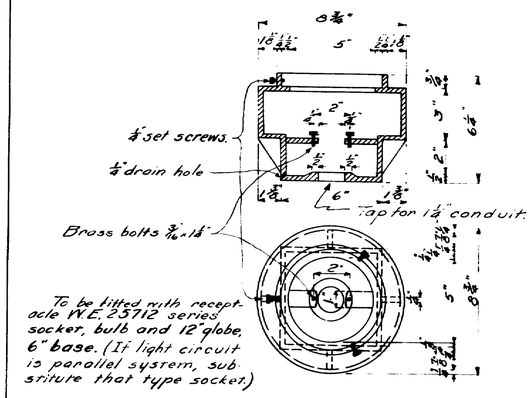
METAL DRAIN DETAIL
4 Required.



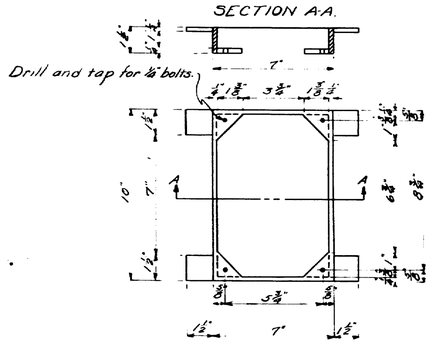
INTERIOR GIRDERS.

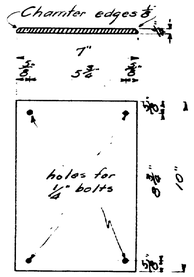


EXT. ROADWAY GIRDER.

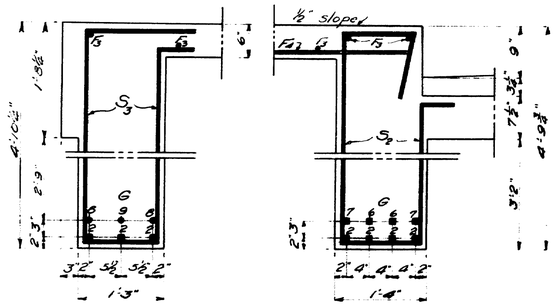


BRONZE LIGHT POST CAP.
4 Required.





DETAILS OF ZINC JUNCTION BOX CASTING and COVER.
Required
2 Zinc junction box castings; 2 Zinc covers; 8 brass bolts ½" x ½"
Note:— Junction box and light post castings will be supplied by the Commission.



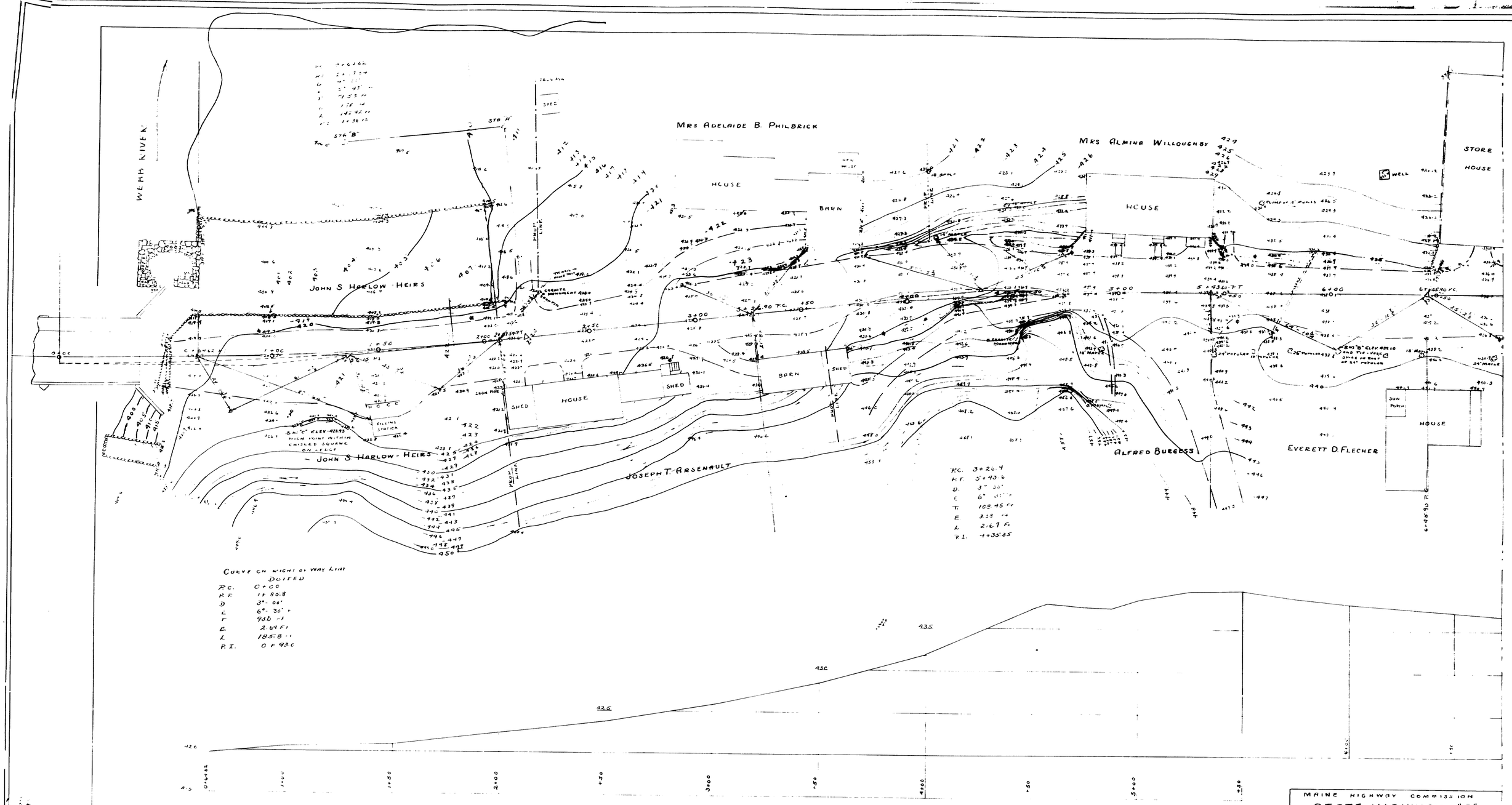
SIDEWALK GIRDERS.

MAINE HIGHWAY COMMISSION
BRIDGE DIVISION.
WEBB RIVER BRIDGE
BETWEEN THE TOWNS OF
DIXFIELD and MEXICO
OXFORD COUNTY.
DETAILS — RAIL, BEARING, etc.
Sheet 5 of 5. Augusta, Me., May 8, 1931.

Designed
Checked

20-53

0 1 2 3 4 5 INCHES



MAINE HIGHWAY COMMISSION

STATE HIGHWAY "O"

BETWEEN

WEBB RIVER BRIDGE AND ANDROSCOGGIN RIV. BR.

IN THE TOWN OF

MEXICO OXFORD Co.

SURVEY PLAN

Sheet 1 of 1 Augusta Me Nov. 19, 1931

20-54

Survey Plan

0 1 2 3 4 5 INCHES

PROFILE ALONG TRANSIT LINE

SCALES H. 1" = 20' V. 1" = 5'

Survey Beckman
Plotted Kilfield

MAINE HIGHWAY COMMISSION

STATE HIGHWAY "O"

BETWEEN

WEBB RIVER BRIDGE

AND

ANDROSCOGGIN RIV. BR.

IN THE TOWN OF

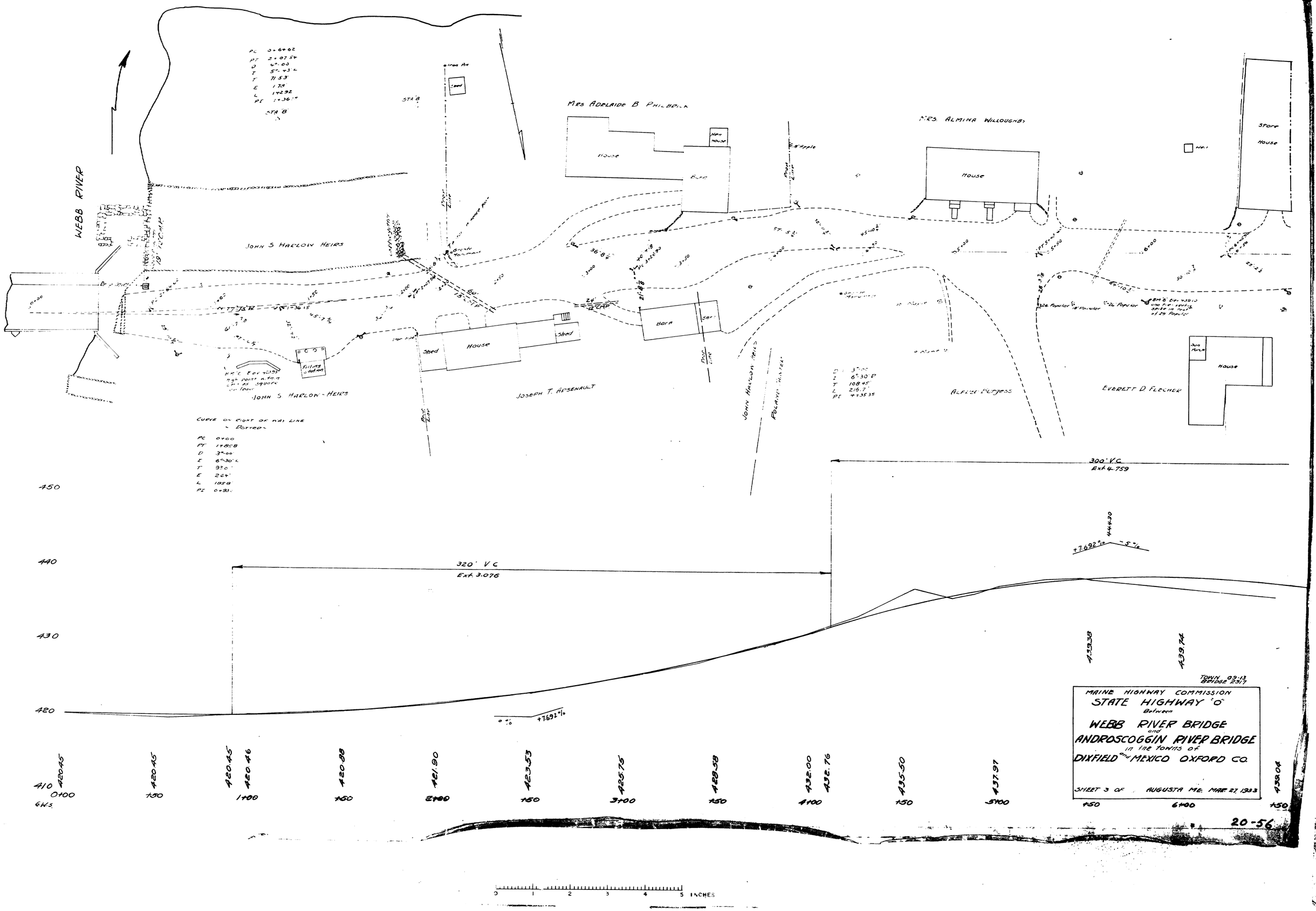
MEXICO OXFORD Co.

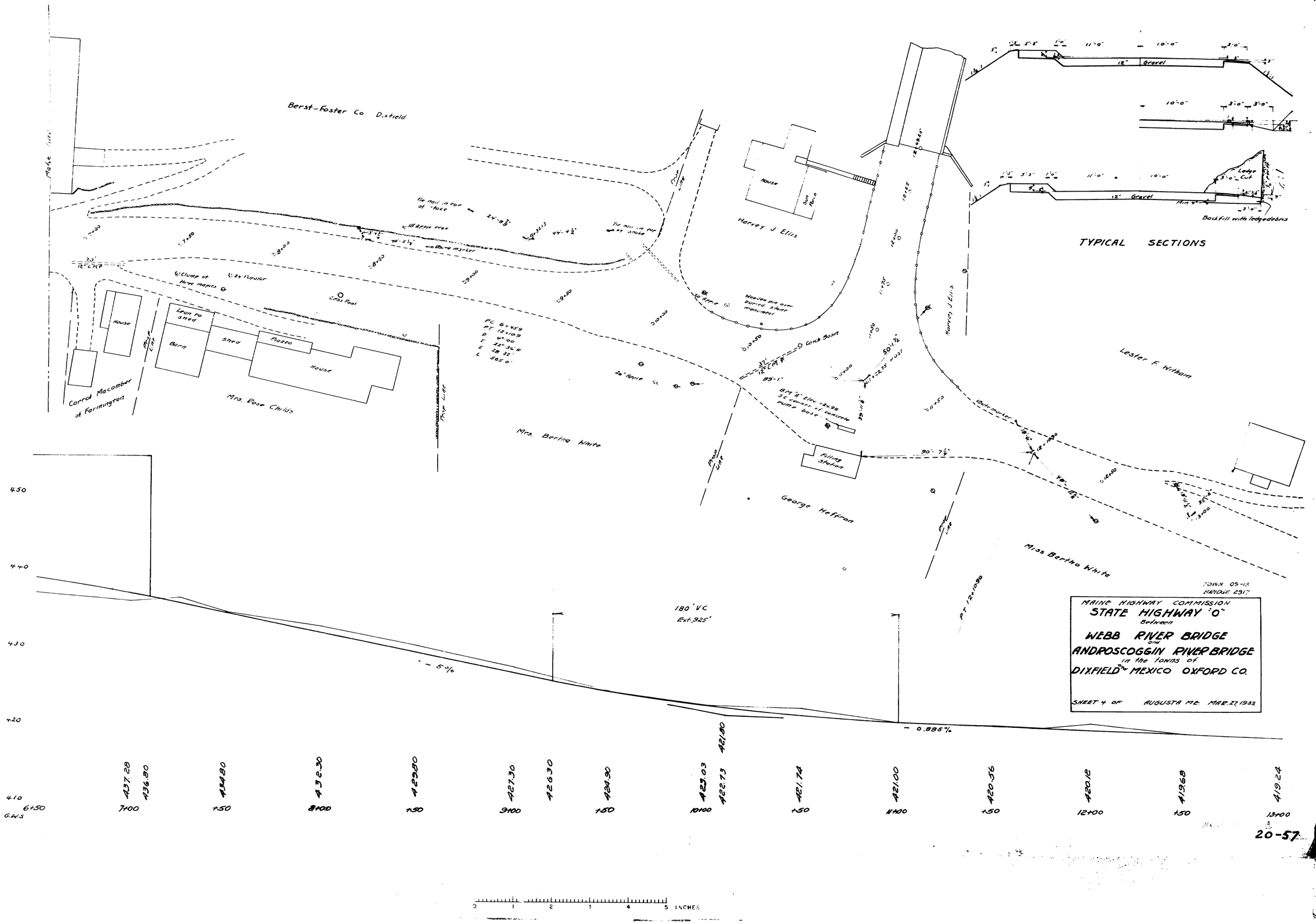
SURVEY PLAN

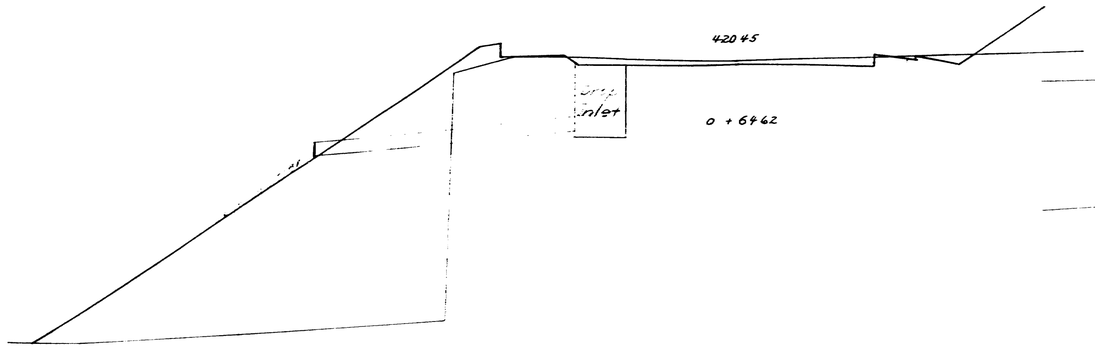
Sheet 2 of Augusta Me Nov. 19, 1931

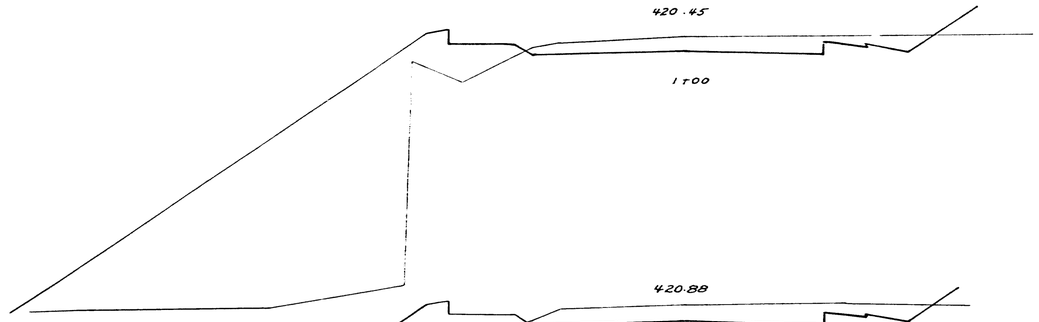
20-55

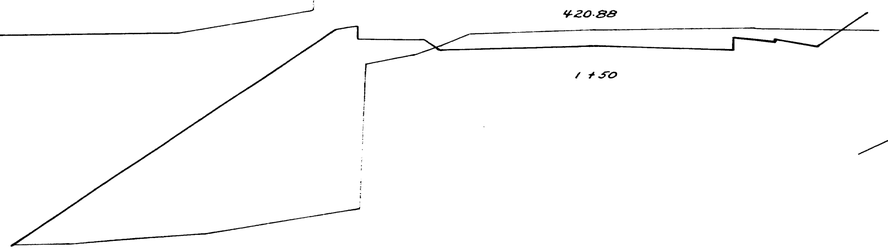
0 1 2 3 4 5 INCHES

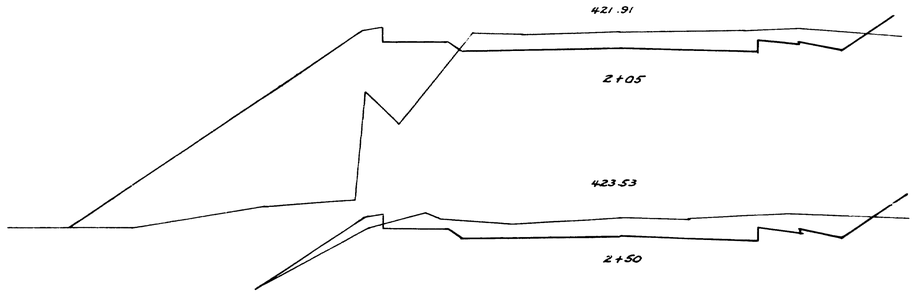

WEBB RIVER
JOHN S HARLOW HEIRS
MRS ADELAIDE B PHILBRICK
House
Barn
MRS. ALMINA WILLOUGHBY
House
Store House
House
Barn
Shed
House
Shed
Filling Station
JOHN S HARLOW - HEIRS
JOSEPH T. ARSENAULT
JOHN HARLOW HEIRS
POLAND HEIRS
ALFRED BURGESS
EVERETT D. FLETCHER
House
Sun House
CURVE ON RIGHT OF RAIL LINE
- Parred -
PC 0+00
PT 1+85.8
D 3°-00'
I 6°30' L
T 93.0'
E 2.64'
L 185.8'
PI 0+93.0
PC 0+64.62
PT 2+07.57
D 4°-00
T 57.43 L
T 71.53'
E 1.79'
L 142.92'
PI 1+36.15'
STA 8
STA 8
D 3°-00'
I 6°30' P
T 108.45'
L 216.7'
PI 4+35.35
300' V.C.
Ext 4.759
320' V C
Ext. 3.076
+7.692%
-5%
0%
+7.692%
450
440
430
420
410
420.45
420.45
420.46
420.88
421.90
423.53
425.75
428.58
432.00
432.76
435.50
437.97
439.08
439.38
439.74
0+00
+50
1+00
+50
2+00
+50
3+00
+50
4+00
+50
5+00
+50
6+00
+50
6 W.S.
TOWN 09-13
BRIDGE 2317
MAINE HIGHWAY COMMISSION
STATE HIGHWAY "O"
Between
WEBB RIVER BRIDGE
and
ANDROSCOGGIN RIVER BRIDGE
in the Towns of
DIXFIELD and MEXICO OXFORD CO.
SHEET 3 OF
AUGUSTA ME. MAR 27 1933
20-56
0 1 2 3 4 5 INCHES

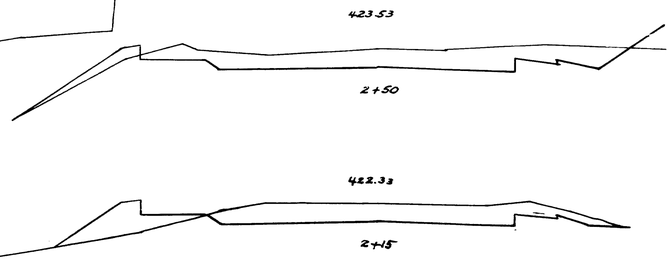

Berst-Foster Co Dixfield
Make Line
Tie nail in top of stake
18" Brook trees
Tie nail in top of stake
Concrete marker
Clump of three maples
24" Poplar
Cobb Pool
House
Lean to shed
Barn
Shed
Piazza
House
Carrol Macomber of Farmington
Mrs. Rose Childs
Prop. Line
Mrs. Bertha White
PC 6+45.9
PT 12+10.9
D 4°00'
T 22°36.8'
E 28.32'
L 565.0'
House
Sun Porch
Harvey J. Ellis
Wooden pin over buried granite monument
24" Apple
Catch Basin
B.M. "A" Elev. 424.98 SE corner of concrete pump base
Filling Station
George Heffron
Harvey J. Ellis
Lester F. Wilhom
Miss Bertha White
Bore marker
TYPICAL SECTIONS
12" Gravel
Ledge Cut
Backfill with ledge debris
180' VC
Ext. 925'
PT 12+10.90
- 5%
- 0.885%
TOWN 09-13
BRIDGE 2917
MAINE HIGHWAY COMMISSION
STATE HIGHWAY "O"
Between
WEBB RIVER BRIDGE
and
ANDROSCOGGIN RIVER BRIDGE
in the towns of
DIXFIELD and MEXICO OXFORD CO.
SHEET 4 OF
AUGUSTA ME. MAR. 27, 1933
450
440
430
420
410
G.W.S.
437.28
436.80
434.80
432.30
429.80
427.30
426.30
424.90
423.03
422.73
421.80
421.74
421.00
420.56
420.18
419.68
419.24
6+50
7+00
+50
8+00
+50
9+00
+50
10+00
+50
11+00
+50
12+00
+50
13+00
0 1 2 3 4 5 INCHES
20-57

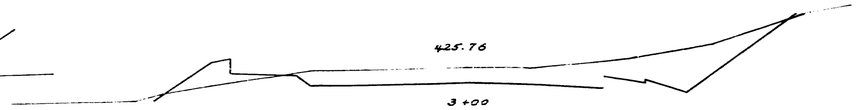


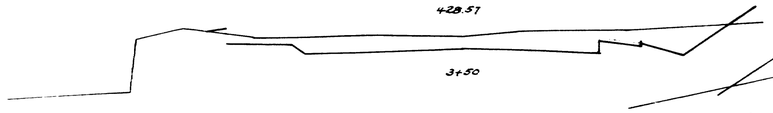


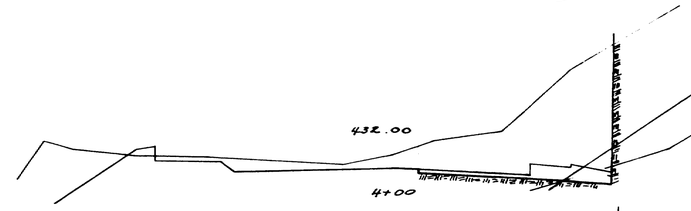


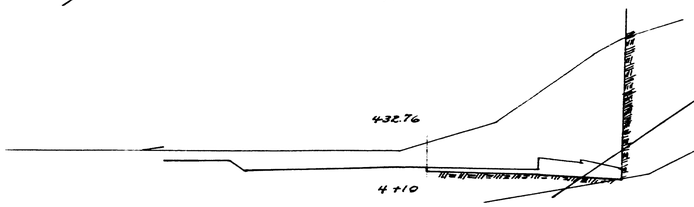


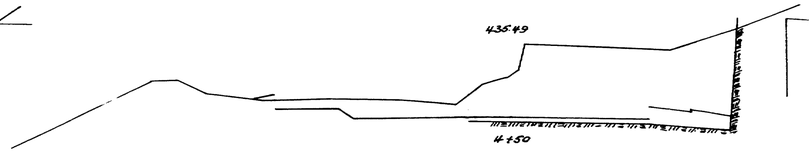


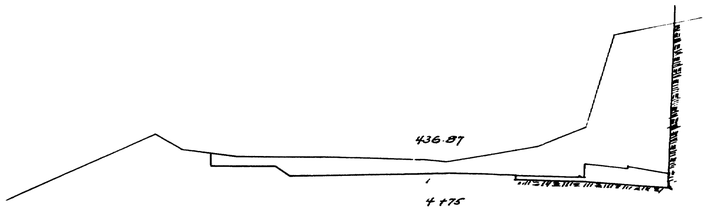


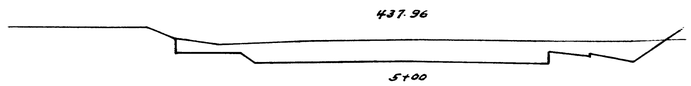


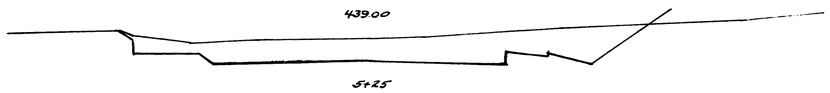


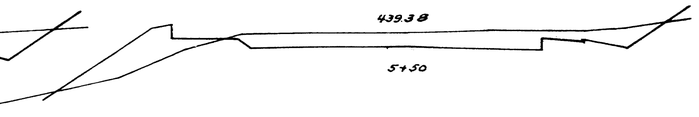


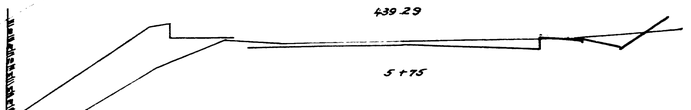


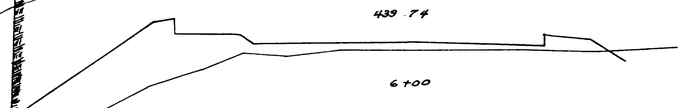


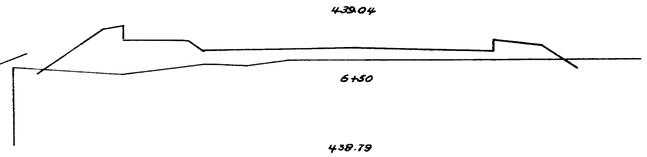


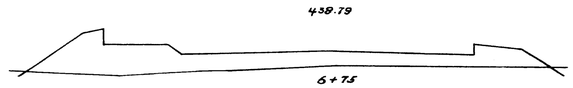


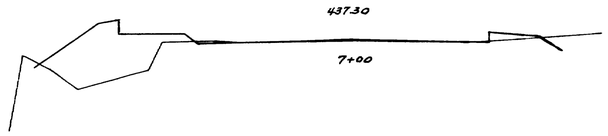


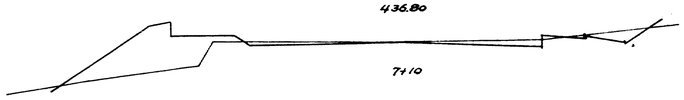












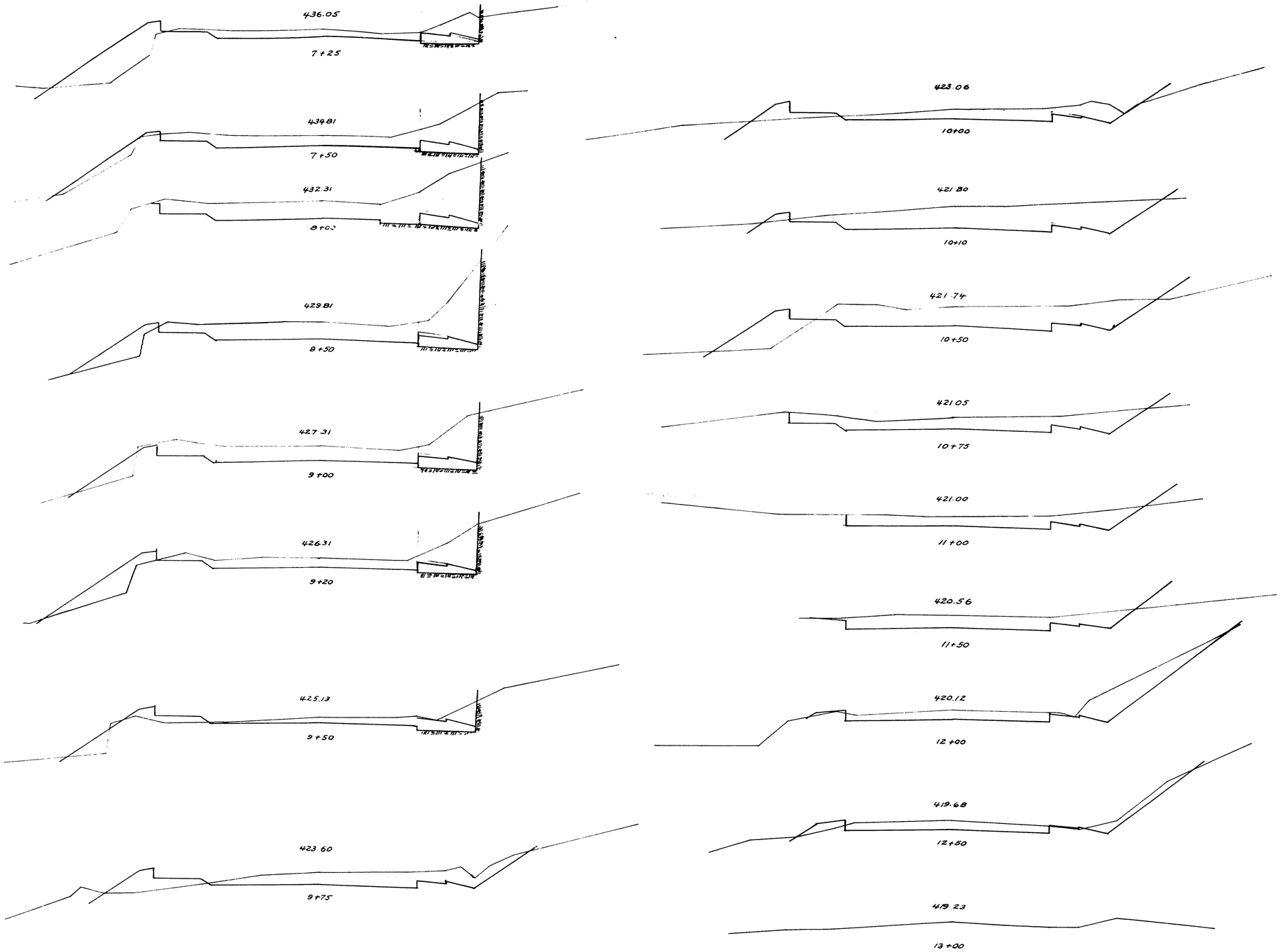
TONN 09-13
BRIDGE 2917

MAINE HIGHWAY COMMISSION
STATE HIGHWAY "O"
Between
WEBB RIVER BRIDGE
and
ANDROSCOGGIN RIVER BRIDGE
in the Towns of
DIXFIELD and MEXICO OXFORD CO.
Cross Sections
SHEET 5 OF AUGUSTA, ME. MAR. 27, 1932

20-58

GHS

0 1 2 3 4 5 INCHES



G.H.S.

TOWN 09-03
BRIDGE 2917

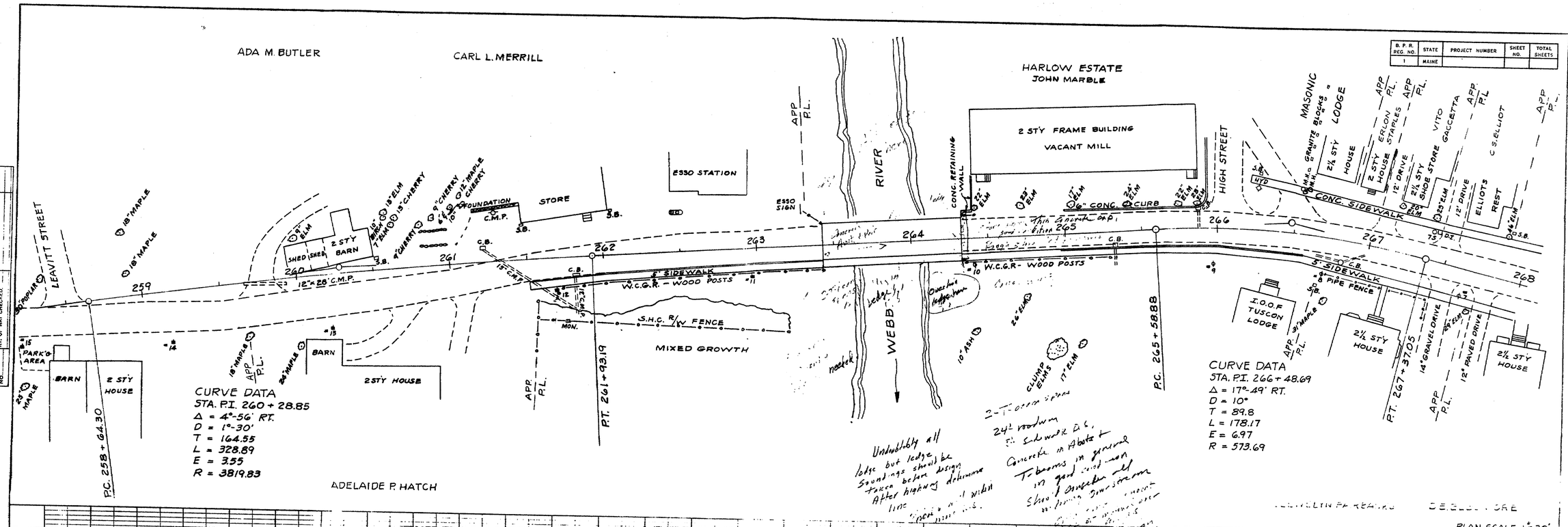
MAINE HIGHWAY COMMISSION
STATE HIGHWAY "O"
between
WEBB RIVER BRIDGE
and
ANDROSCOGGIN RIVER BRIDGE
in the towns of
DIXFIELD and MEXICO OXFORD CO.

SHEET 6 OF 6 AUGUSTA, ME. MAR. 27, 1933.

20-59

0 1 2 3 4 5 INCHES

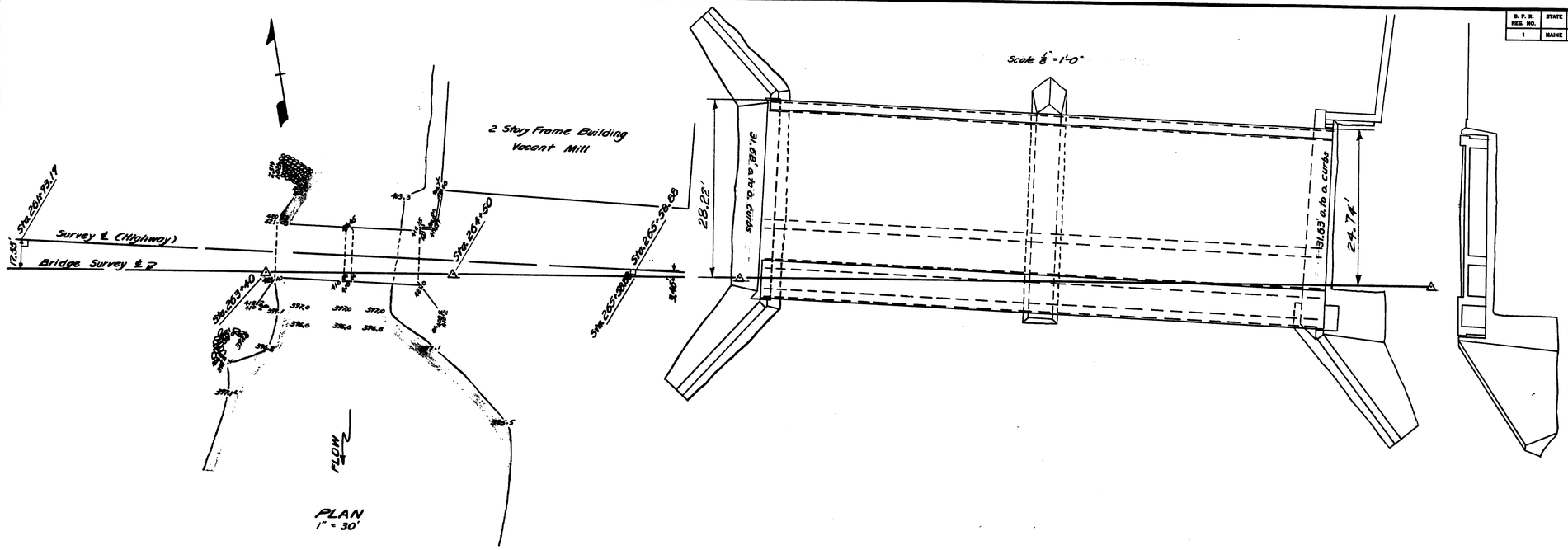
B. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



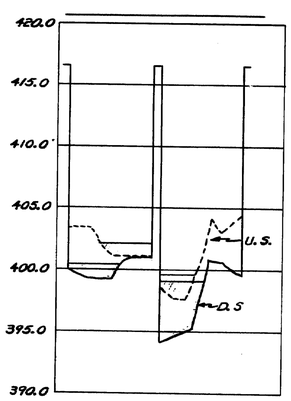
PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWN
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

S. P. R. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE			



PLAN
1" = 30'



PROFILE
Scales 1"=30' Horiz.
1"=5' Vert.

NOTES:

Existing Substructure
Abutment No. 1 - Mass concrete.
Pier - Mass concrete.
Abutment No. 2 - Stone capped with concrete and concrete wing on downstream side. All in good condition.

Existing Superstructure
Reinforced concrete T-beams. Good condition.

Stream
Very swift current at all stages. Extreme high water caused by backwater from Androscoggin River about 200' D.S.

Foundation
All ledge.

DESIGN-
TRACE- A.R.C.
CHECK-

BRIDGE NO.
SURVEY-
PLOT- A.R.C.

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

WEBB RIVER BRIDGE

BETWEEN THE TOWNS OF

MEXICO & DIXFIELD

OXFORD COUNTY

SURVEY

SHEET OF AUGUSTA, MAINE

R91-163