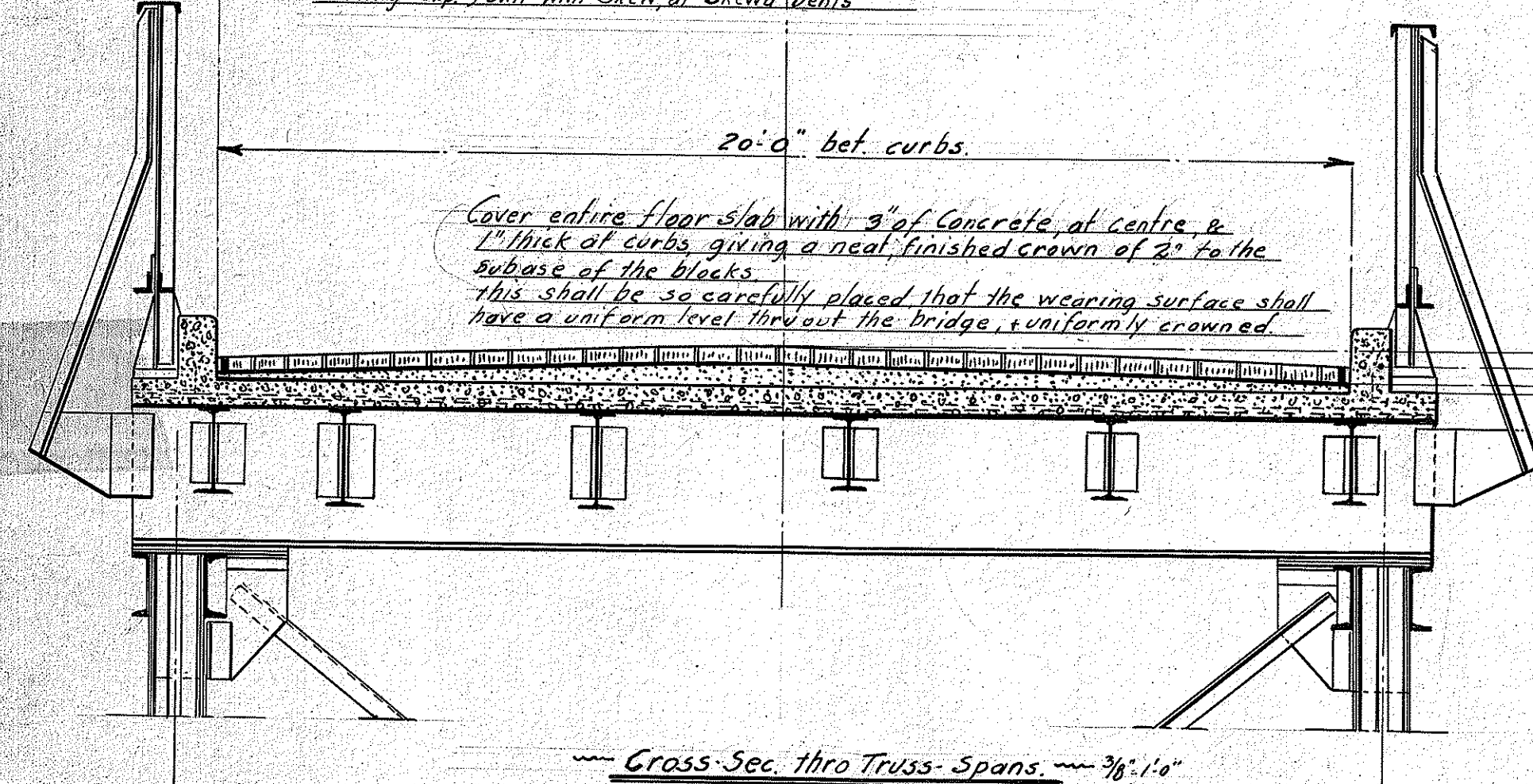
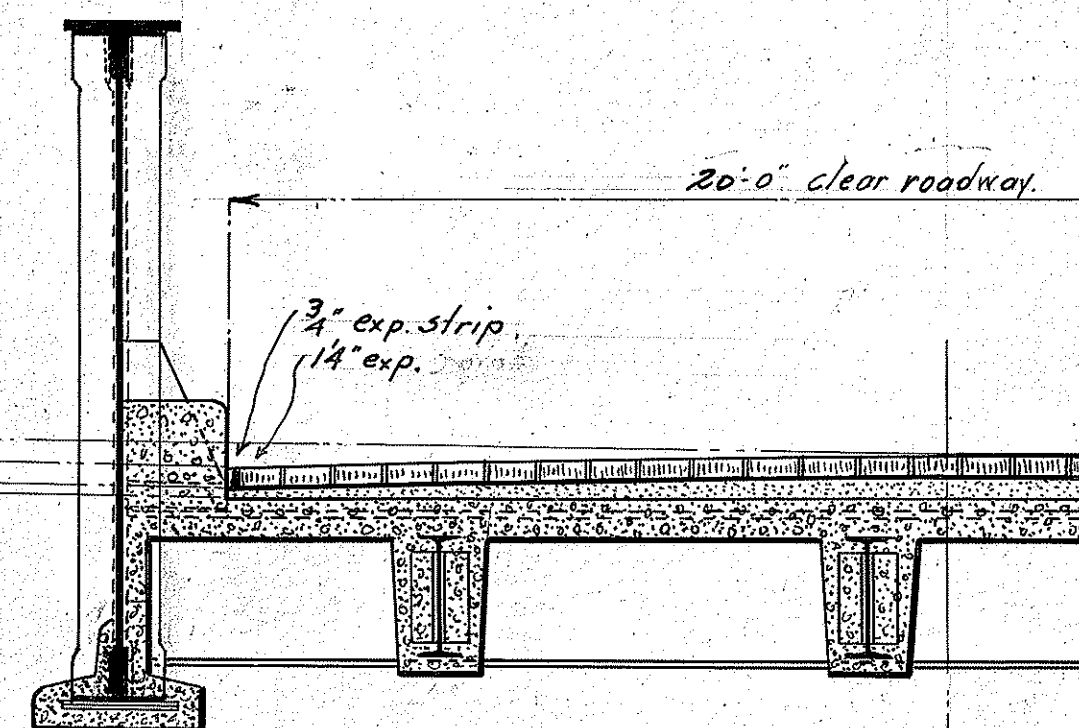


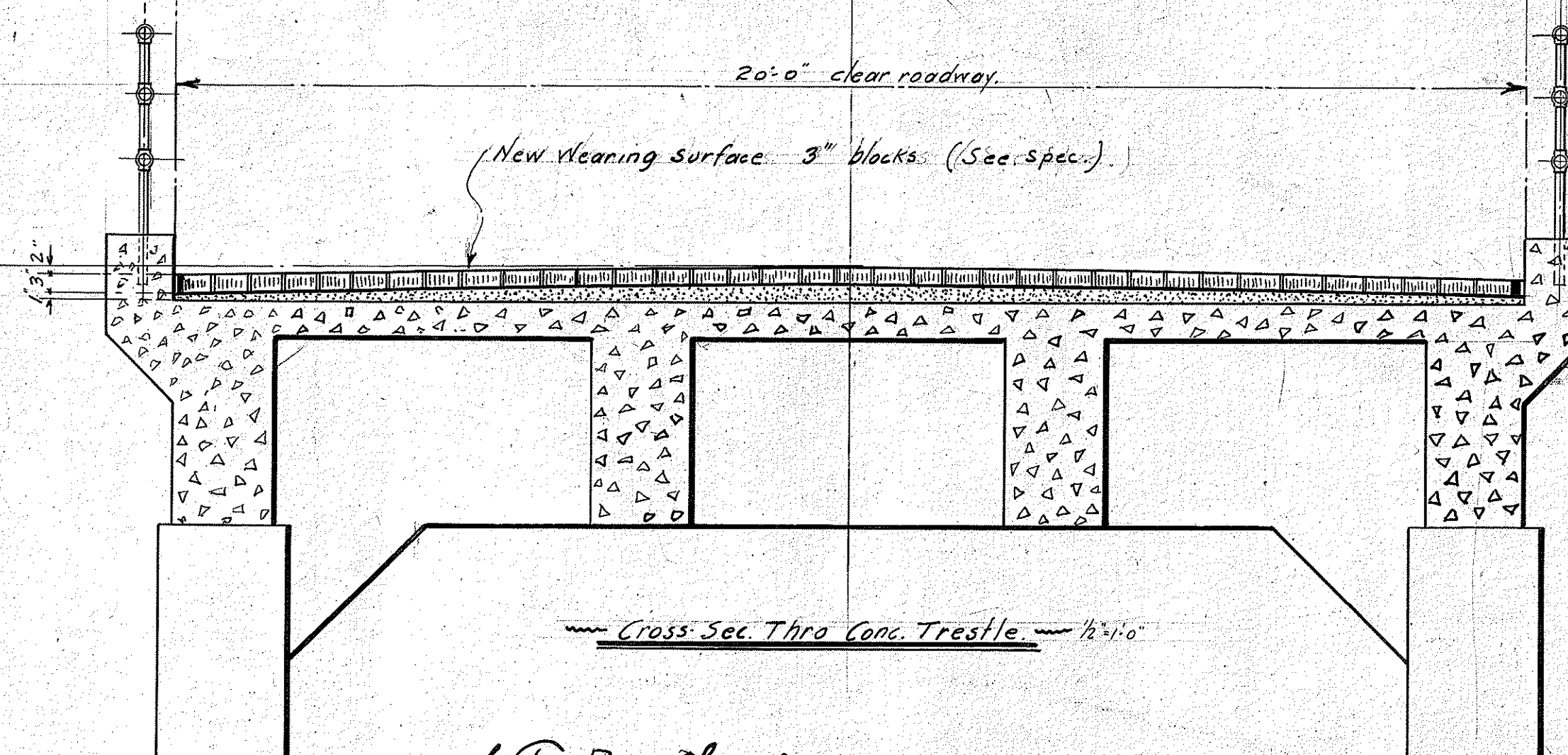
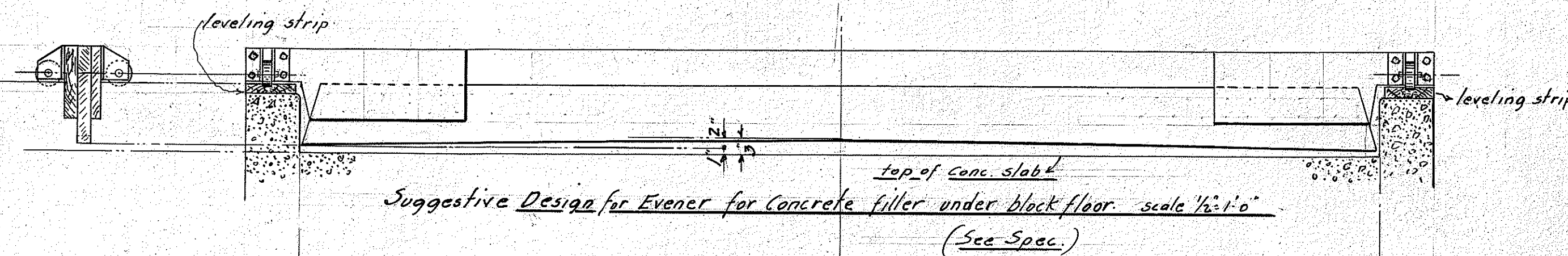
Part top view of floor showing typical expansion joint. Provide for expansion at all present Exp points on bridge, running exp joint with skew at skewed beams.



Cross Sec. thro Truss Spans 3/8" 1/10"



Half Cross Sec. thro Girder Span 3/8" 1/10"



Approved J. F. Booth
H. M. Tinsdale
A. M. Jackson } Board of Stark Co., O., Commissioners
 Attest E. L. Schaffner County Surveyor
 Clerk for the Board.

Plan of Proposed New Floor Surfacing
 for
Columbia Heights Bridge
City of Massillon County of Stark State of Ohio

**MASSILLON
STARK COUNTY- OH**

PLAN.

Use present Gas Pipe Railing
New Gas Pipe Railing - use old holes for new Gas Pipe Posts
Use present Gas Pipe Railing
New Gas Pipe Railing
New Side Walk
New Gas Pipe Railing - drill new holes for Gas Pipe Posts
Use present Lattice Railing
New Gas Pipe Rail
Present G. P. R.

93'-4 1/2"
92'-0"
32'-3 1/2"
14'-6"
13'-2"
13'-1"
13'-2"
14'-0 1/2"
20'-6 1/4"
34'-7 1/4"
34'-4"
33'-6 3/8"
35'-1"
34'-2 5/8"
34'-11 5/8"
33'-8"
34'-5"
34'-7 1/4"
34'-4 3/8"
35'-10 3/4"
16'-11 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
18'-9"
16'-11 3/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
18'-7 3/4"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
17'-0 5/8"
16'-11 5/8"
35'-1 1/4"
35'-4"
988'-9" Extrem Length of proposed new Foot Walk.
PLAN
1"=30'

ELEVATION.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21

26'-33'-4 1/2"
66'-0"
22'-0"
10 Spaces @ 34'-6" = 345'-0"
35'-0"
103'-9"
103'-9"
103'-9"
103'-9"
35'-0"
33'-4 1/2"
2'-0"

Tuscarawas River.
Ohio Canal

These dimensions are on C of roadway

20" 0

3'0"

5'0 For No 10

6'-9 1/2" For No 1

3'4" 8"

6" 1/2"

15" 4.5" I

2'-2" #6 bars

8" 1/2" x 16" PL

2'5' 3" + 2'3" + 5'6"

2'-3' 2 1/2"

3'0"

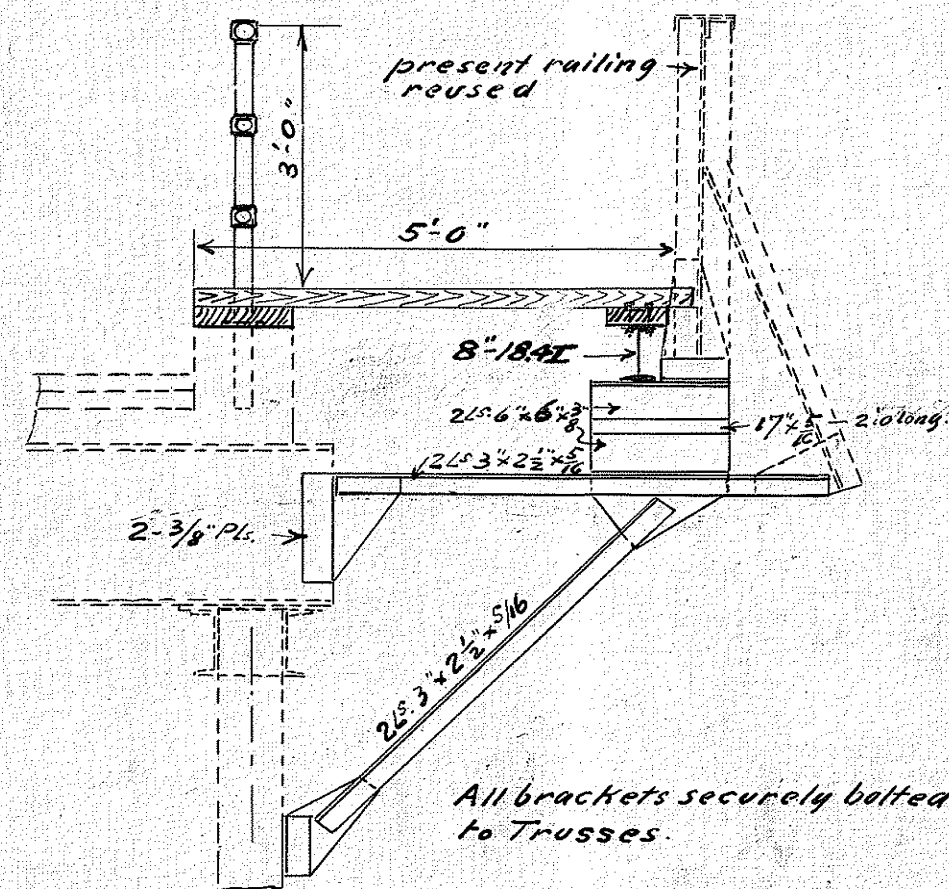
3'0"

Plate with hole for G.P. Post

Hand-drawn technical drawing of a window frame assembly. The drawing shows a cross-section of the frame with various dimensions and material specifications. Key dimensions include a total width of 5'-8", a height of 4'-4 1/2", and a depth of 3'-0". The frame is constructed from 3x8 splicing pieces, 2x6s, and 2x8s. A 5/16" W6 PL (plate) is shown at the bottom. The drawing is labeled "Fig. 1" and "Fig. 2".

Note: All Joints of Gas Pipes to be welded.

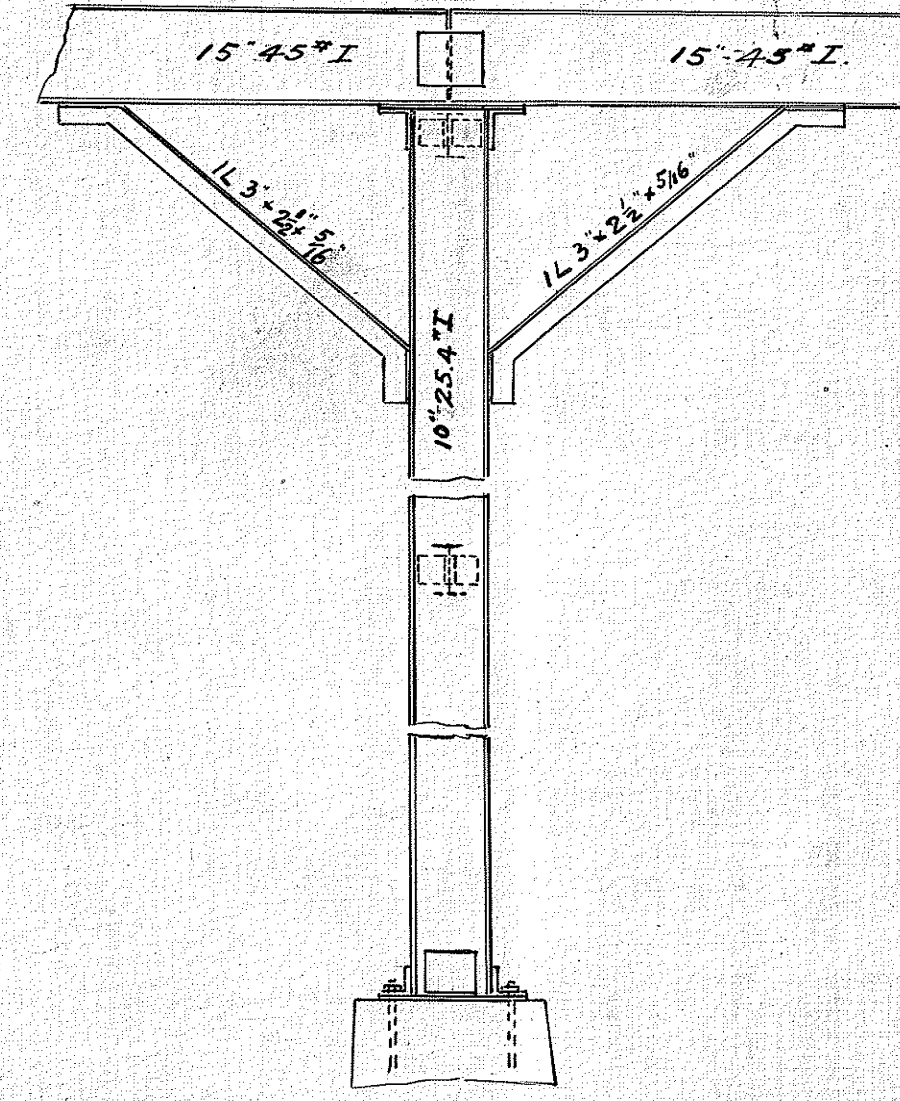
drain floor 1" to outside.
all spiking pieces to be bolted to steel beam 4'0" apart stagger.
6" x 12" PL.



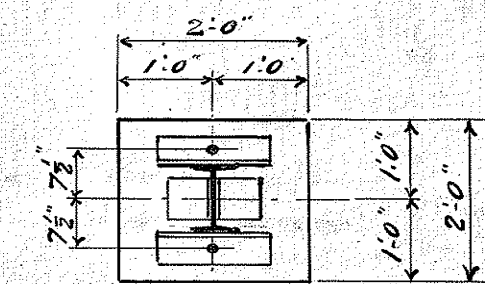
BRACKET ON TRUSSES.

Either of these designs will carry in addition to the dead weight a live load of 100 # per sq. ft.
There are no patent rights in either of these designs, or any other part here of.
All steel material to have one coat of black graphite paint at shop and one coat after erection.
General specifications of the Stark County Engineers Office to govern.

<u>ESTIMATED QUANTITIES</u>	
Excavation and Backfill	125 Cu.Yds
Concrete 1:2 1/4:4	28 " "
Structural Steel	56200 LBS
Lumber - Creosoted	19100 FT. Bm.
Removing and rejoining present old Lattice Railing	415 Lin.Ft.
New Gas Pipe Railing 2" diam. Top Rail, 1 1/2" diam. Lower Railings South Side Walk	988' Lin.Ft.
Labor drilling holes into old concrete for 2" diam. rods	50 Holes
New Gas Pipe in present side walk North Side	817 Lin.Ft.



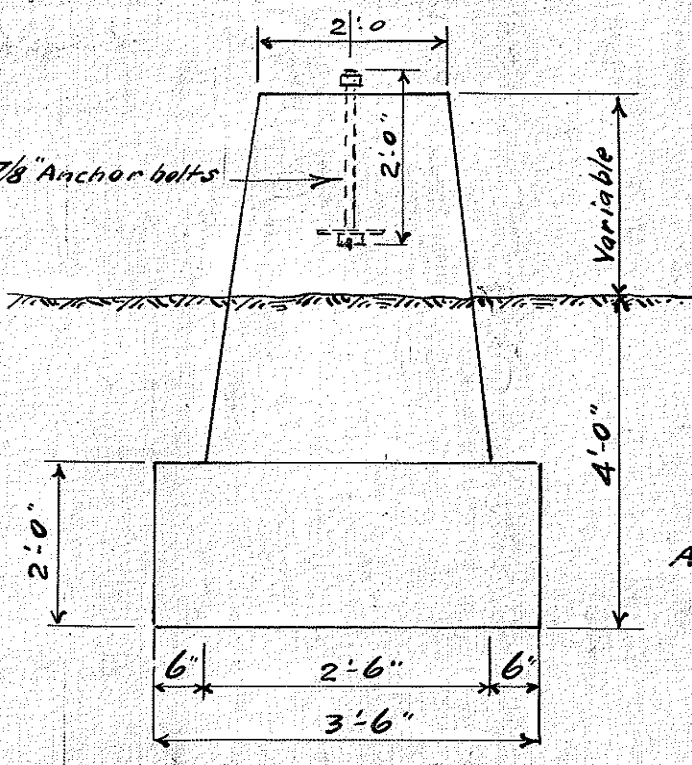
NOTE
All dimensions to be checked by
measurements at the bridge.



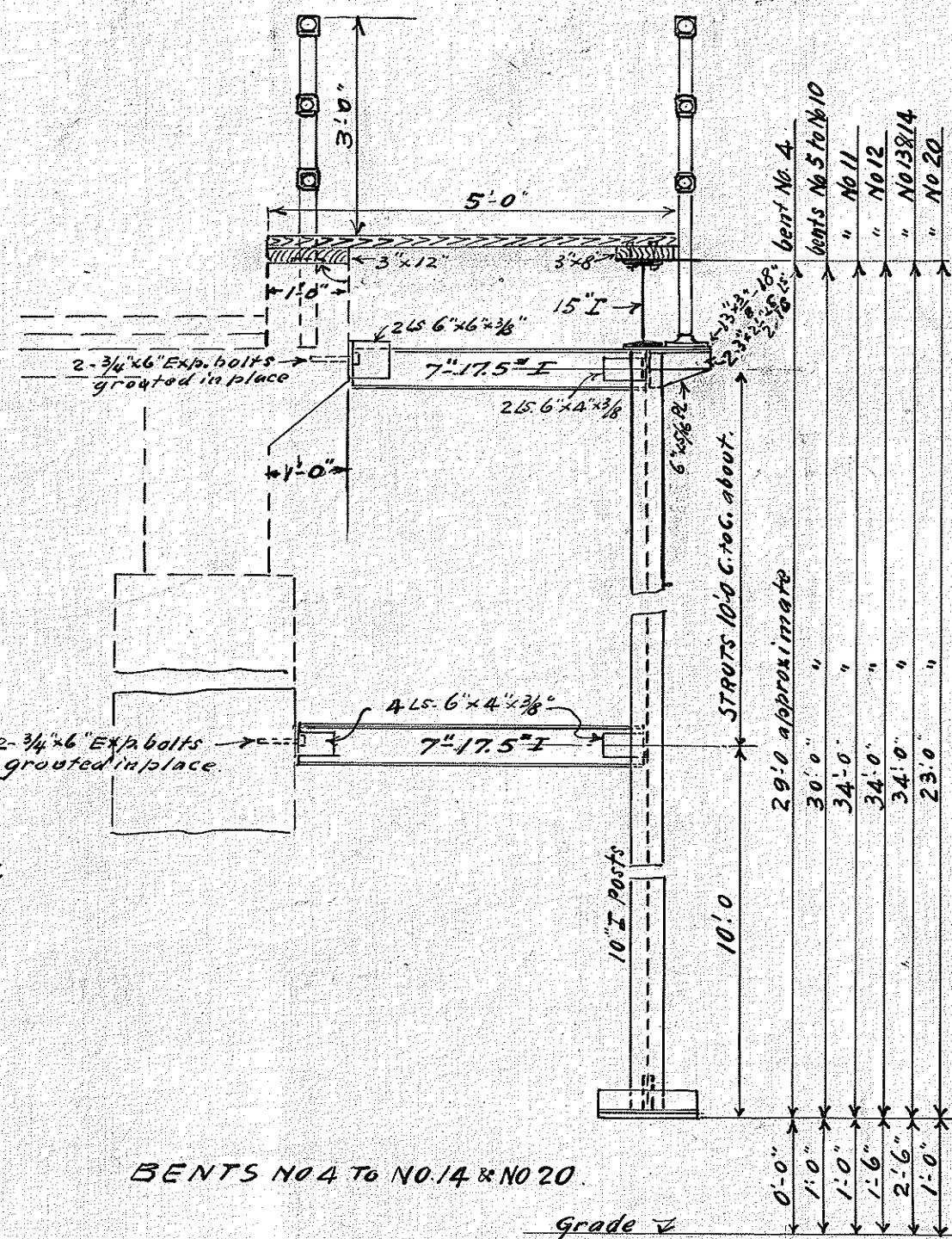
2-7/8" Anchor bolts

Variable

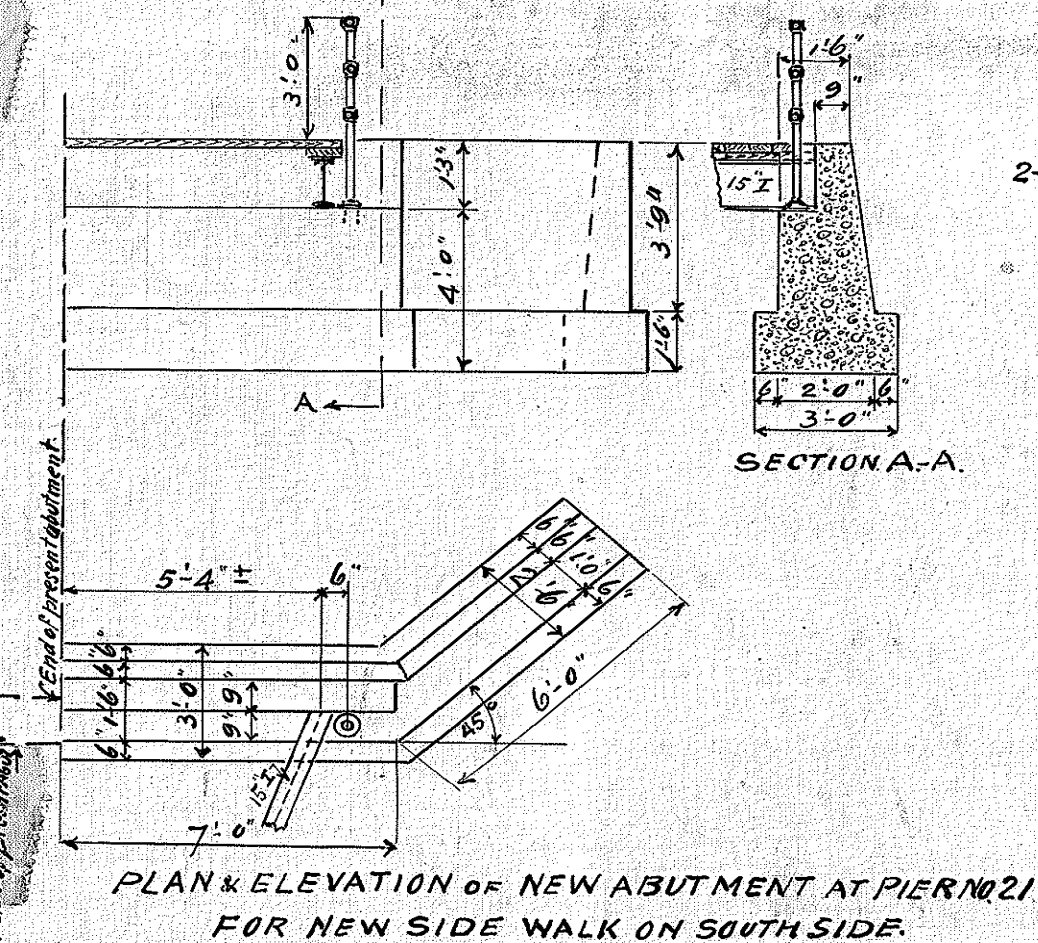
All concrete Mixture to be $1:2\frac{1}{2}:4$



PLAN & ELEVATION OF PIERS. No. 4 TO No 14 & No 20



BENTS NO 4 TO NO 14 & NO 20.



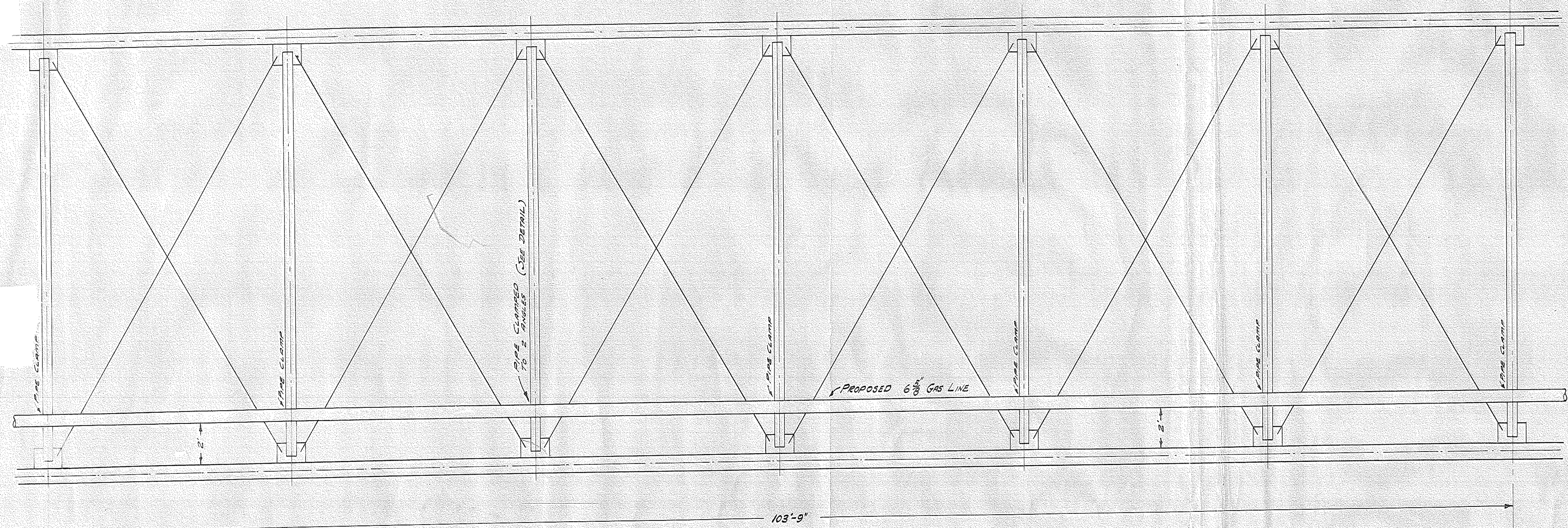
PLAN & ELEVATION OF NEW ABUTMENT AT PIER NO 21
FOR NEW SIDE WALK ON SOUTH SIDE.

APPROVED BY

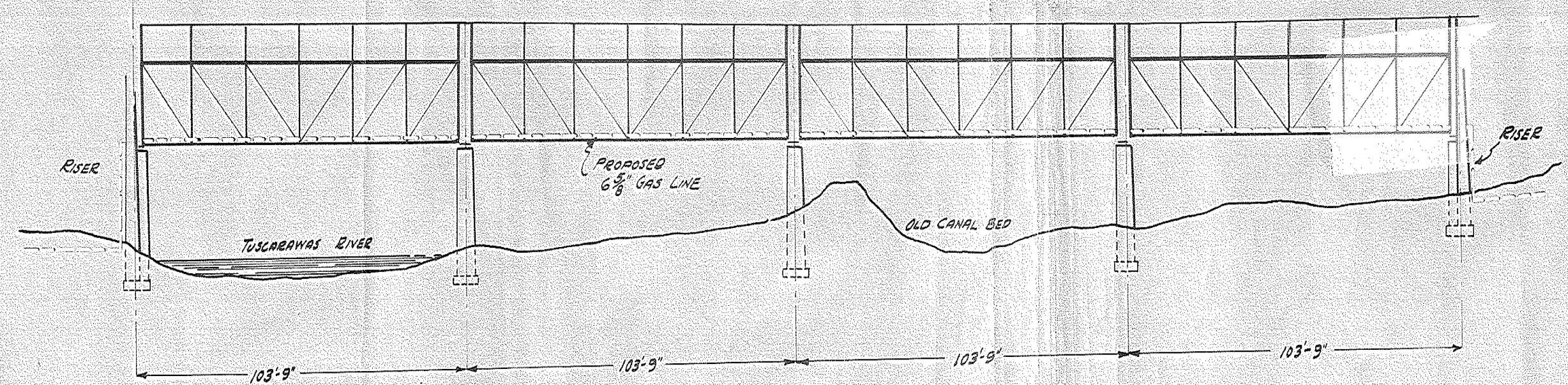
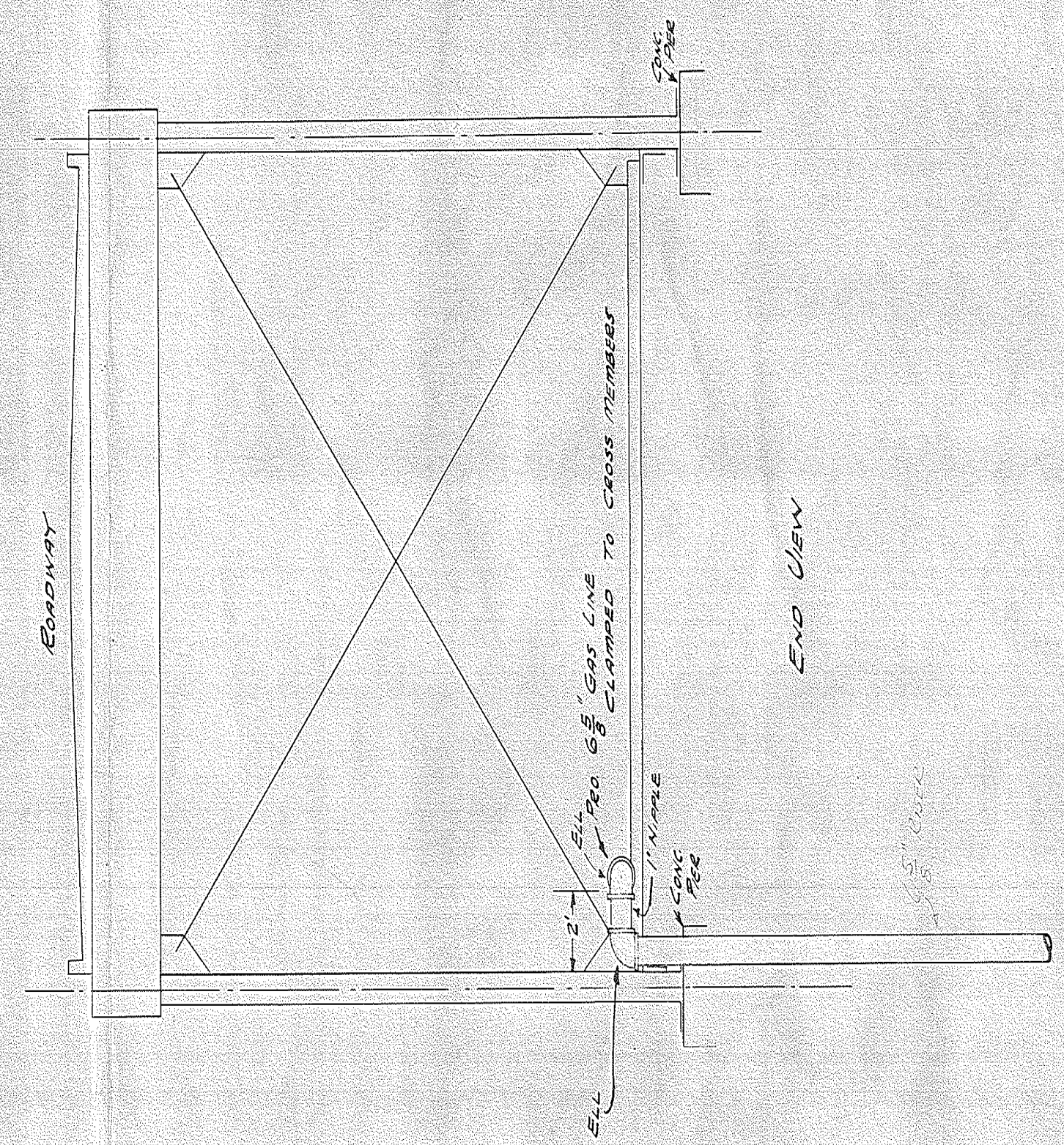
Chas. A. Fromm
Halter J. Hester
Neal Perkins
COUNTY COMMISSIONERS.

Ruth Kauffman
County Auditor

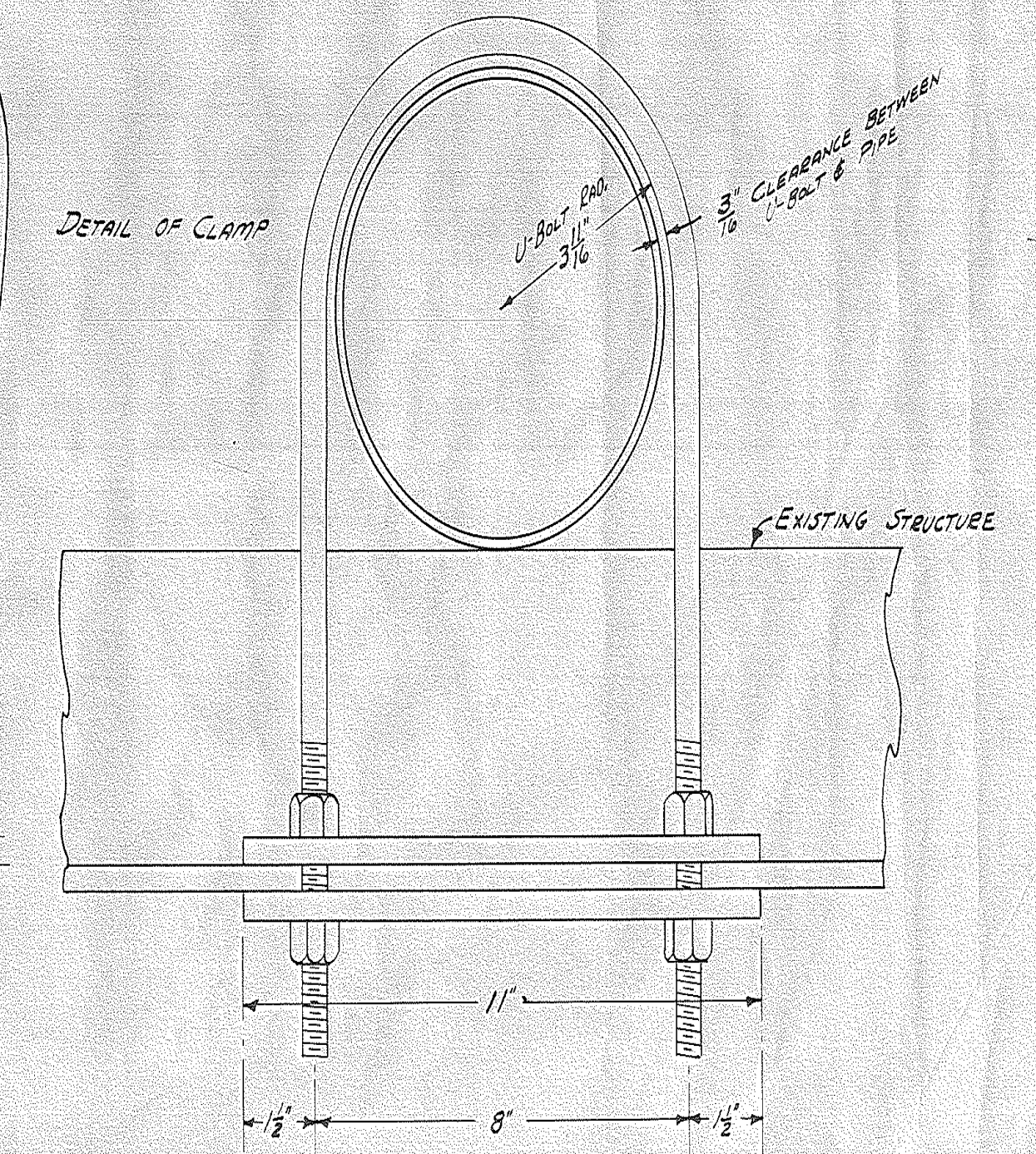
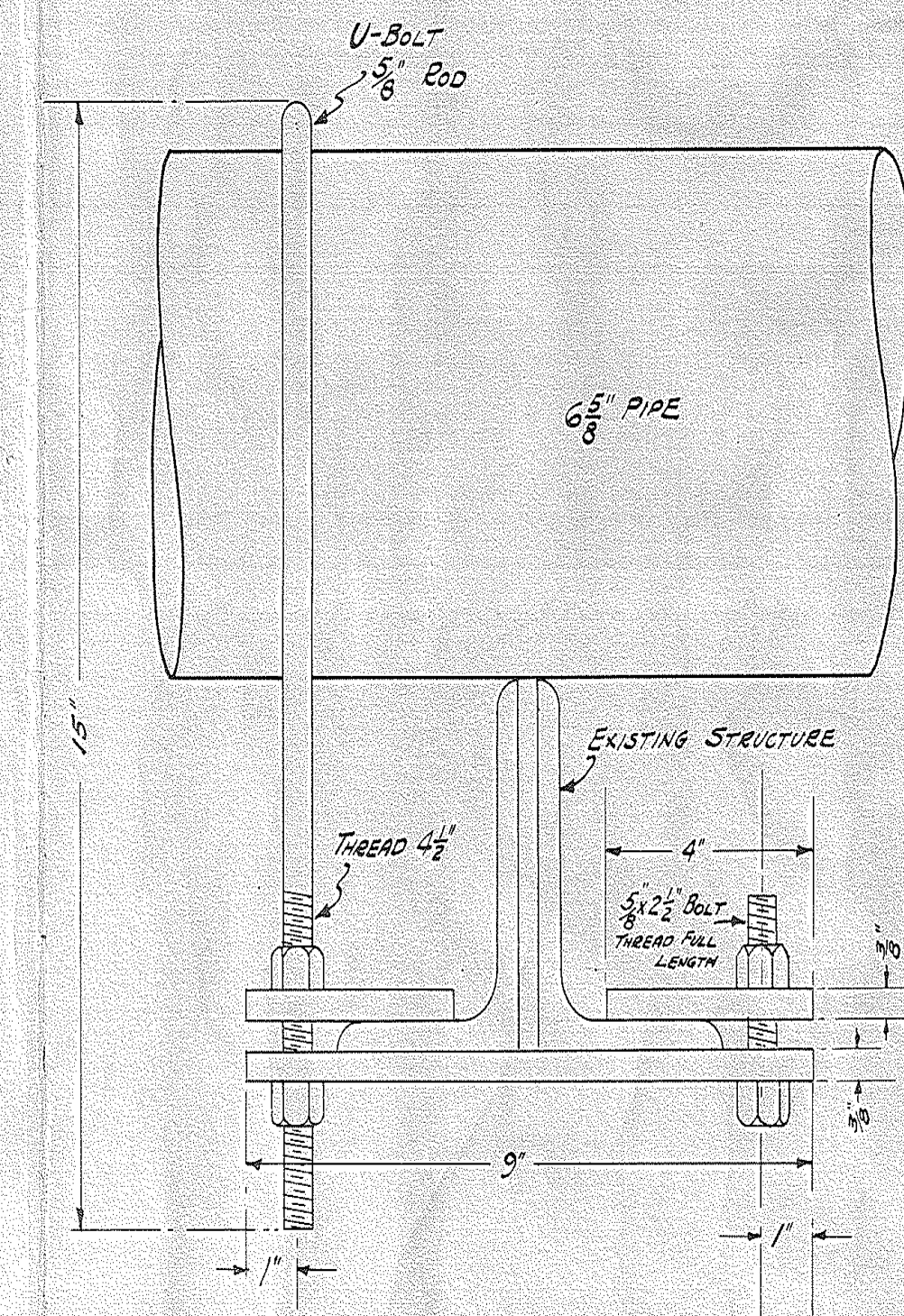
Date Apr. 30 1966 Charles M. Wise
COUNTY SURVEYOR.



PLAN VIEW OF TYPICAL SPAN
PIPE TO BE LAID ON 4 SPANS
1"=1'

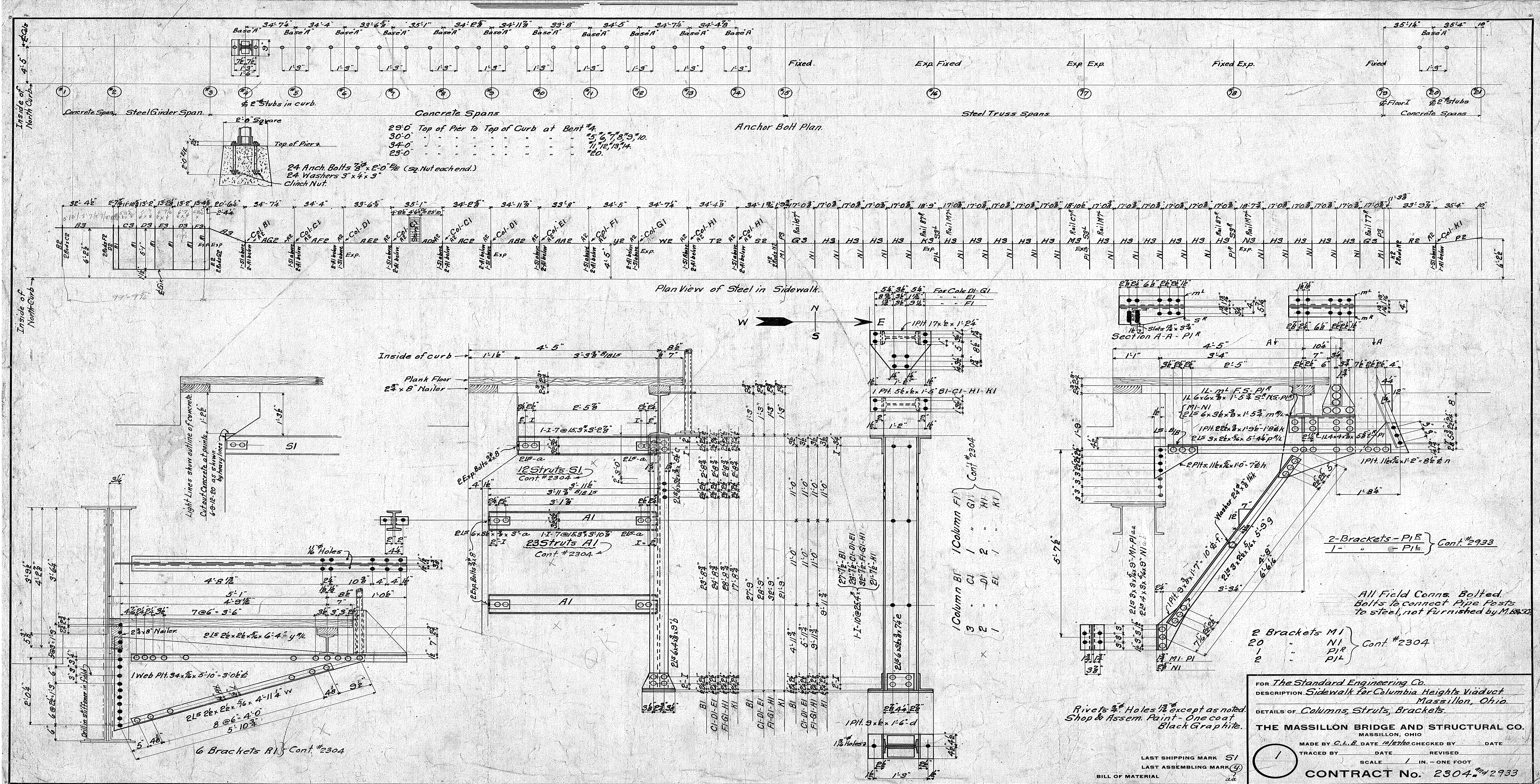


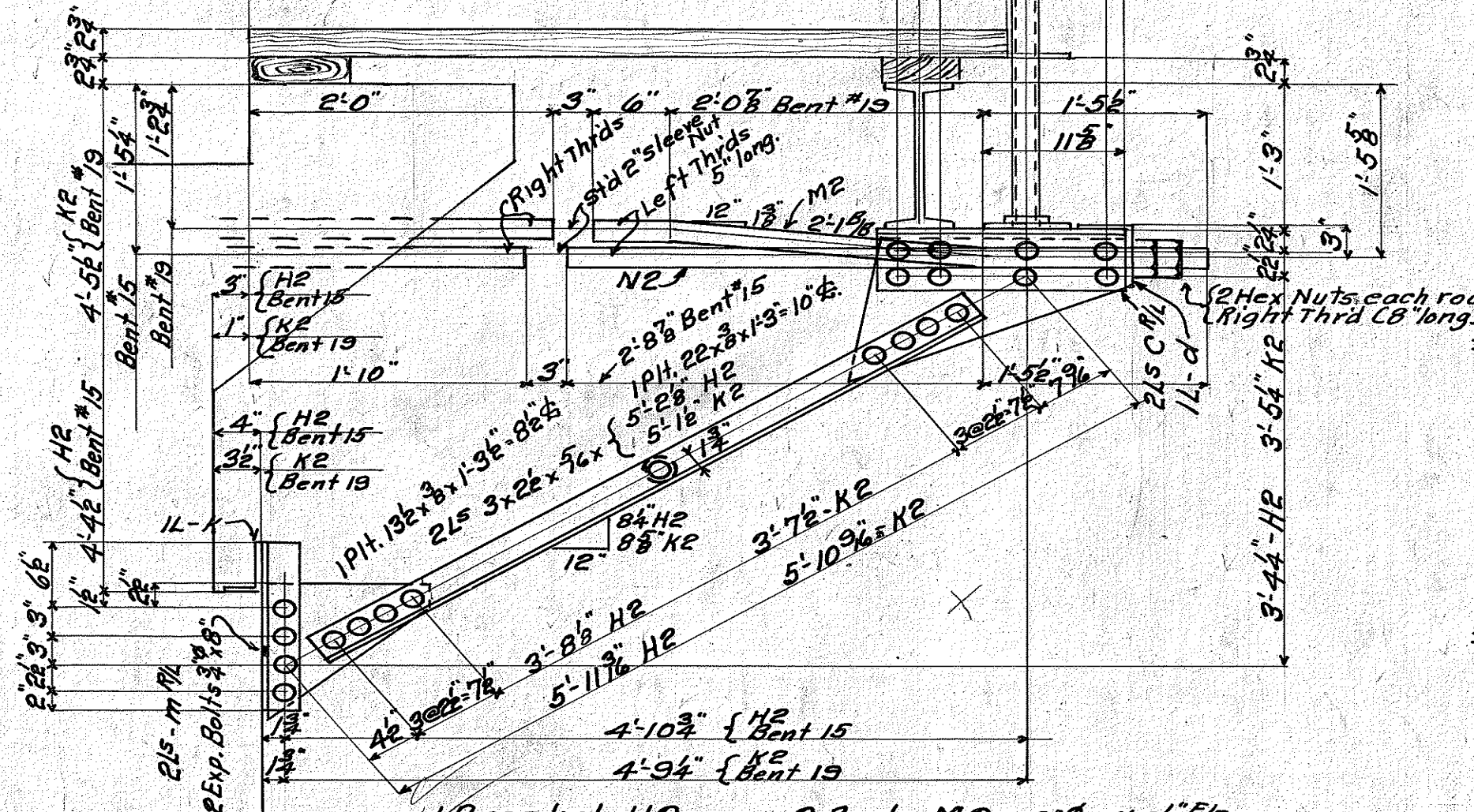
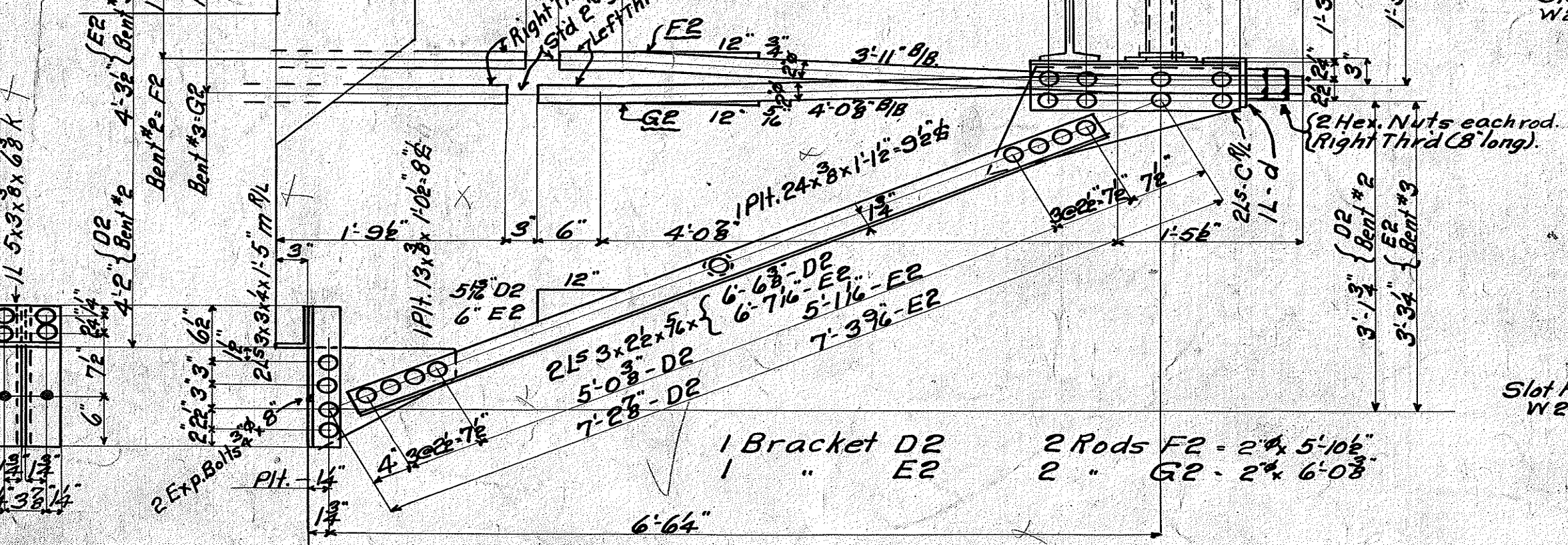
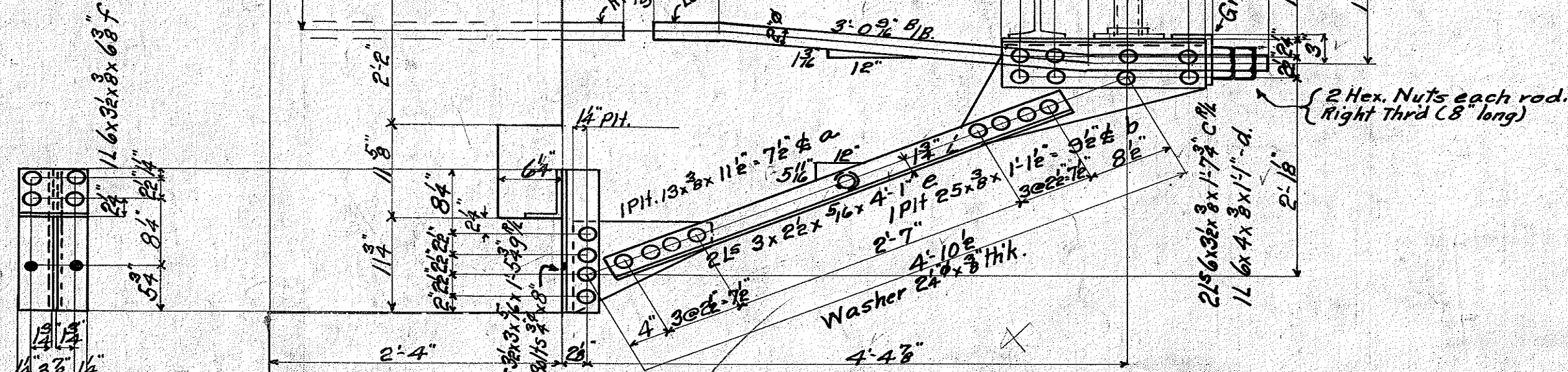
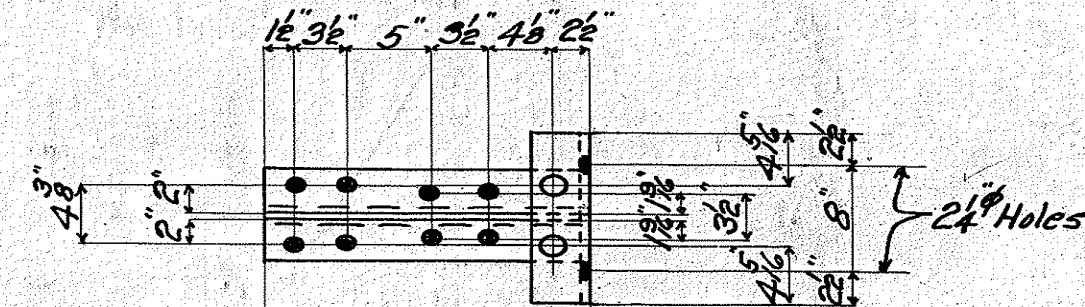
SECTION OF COLUMBIA HTS. VIADUCT
SHOWING PROPOSED GAS LINE
1"=30'



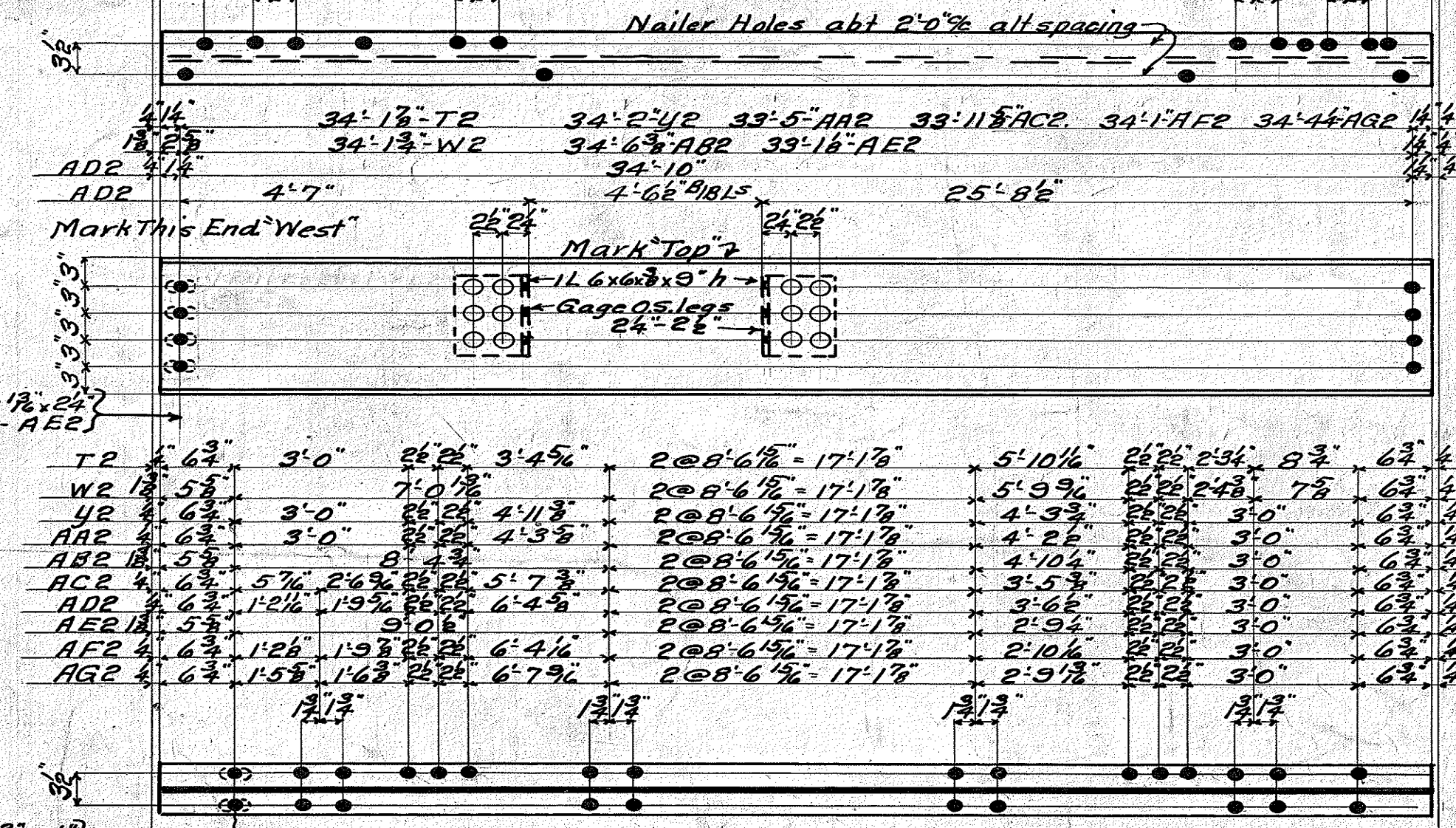
SCALE 3/8"=1"

THE EAST OHIO GAS CO.
PROPOSED LOCATION OF 6 5/8" GAS LINE
ON COLUMBIA HTS. VIADUCT IN THE
CITY OF MASSILLON OHIO
R.C.G.

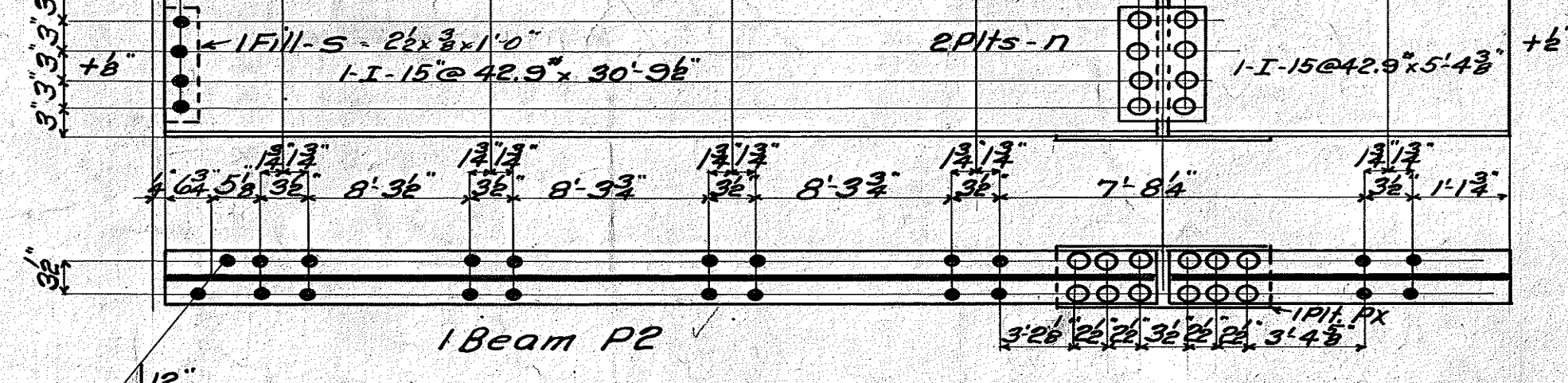
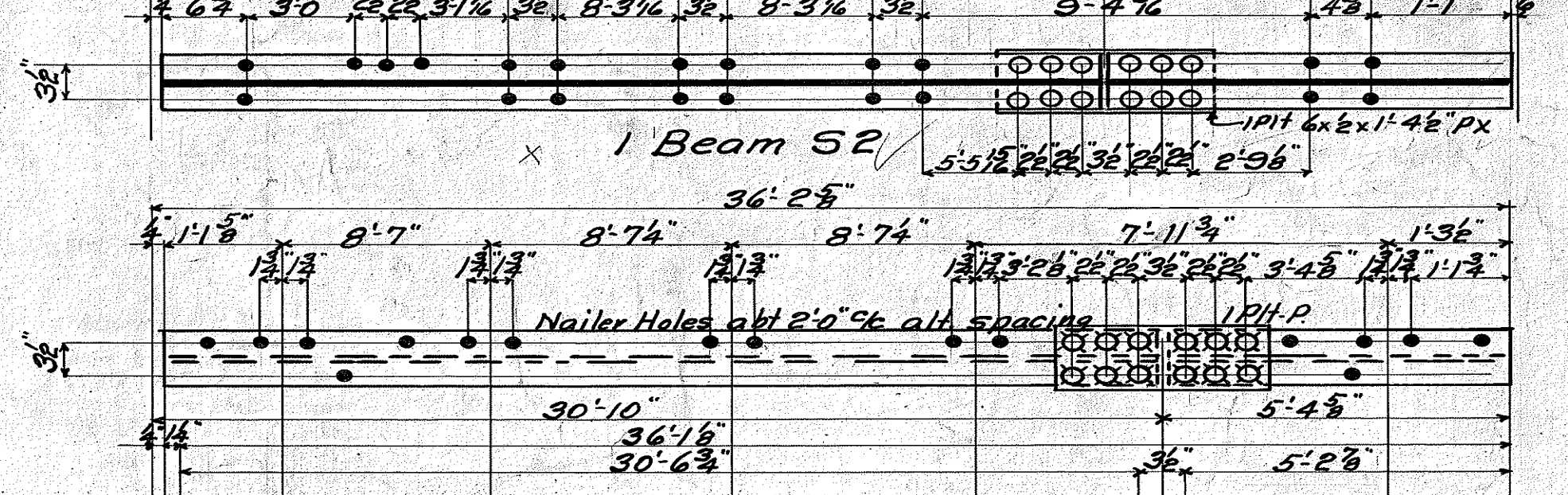
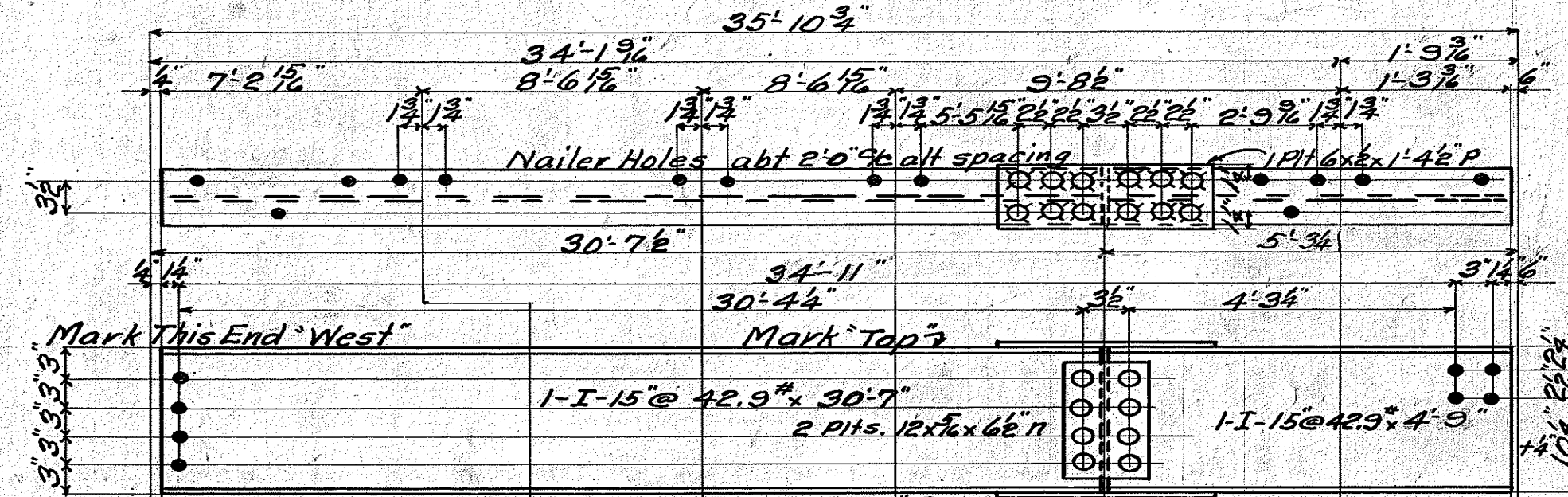
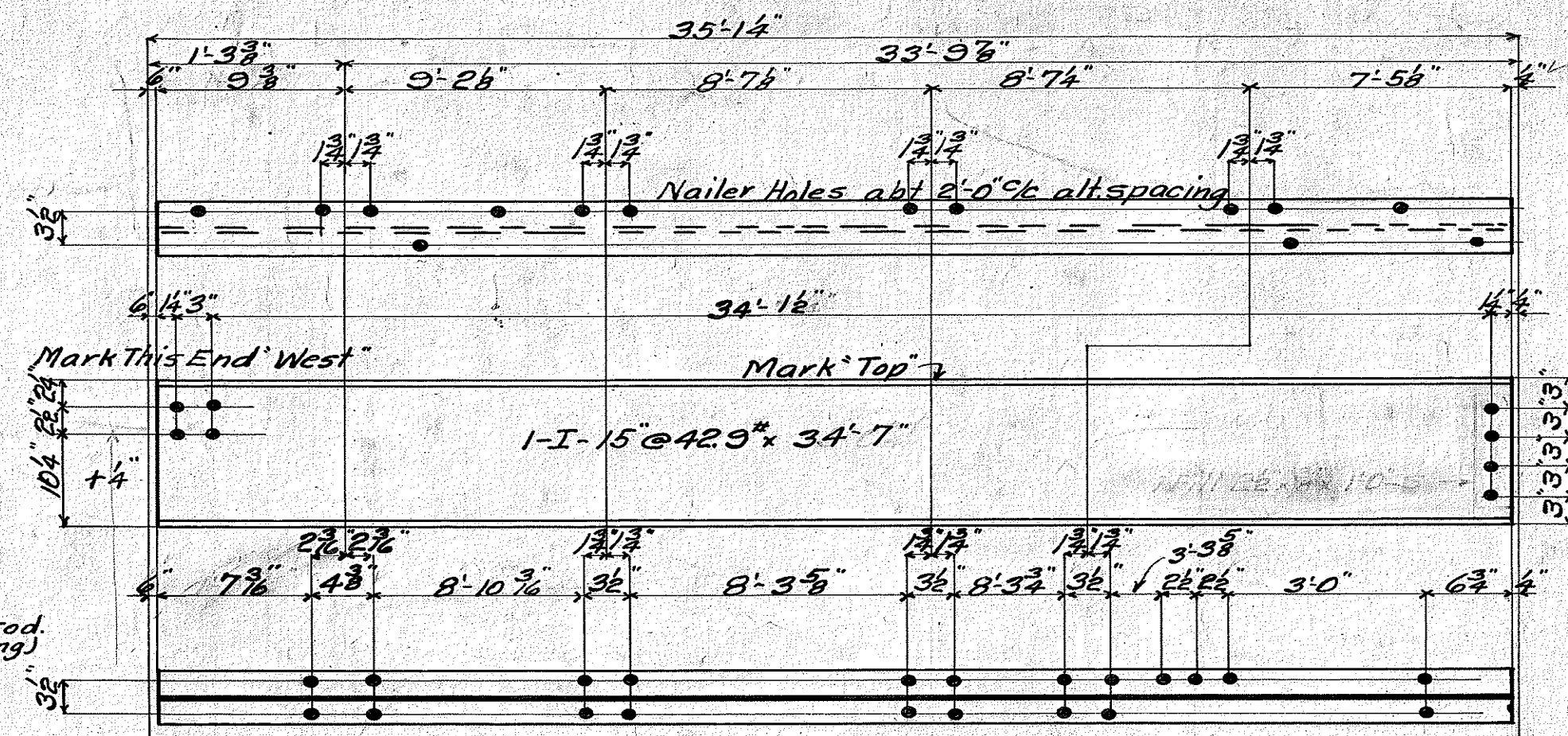




	34-42°-T2	34-74°-WP	34-54°-UR	33-2°-AA2	34-112°-ABP
T2	34-23°-ACR	35-17°-ADP	33-38°-AEE	34-4°-AER	34-7°-AGE
WR	7°46'	3008-644'	25-814'		1136'
UR	7°33'	3008-644'	25-814'		1123'
AB2	42'	3008-644'	25-814'		7113'
AB5	23'	3008-644'	25-814'		8124'
AC2	103'	3008-644'	25-814'		7133'
AD2	133'	3008-644'	25-814'		7163'
AE2	213'	3008-644'	25-814'		6103'
AF2	192'	3008-644'	25-814'		6103'
AG2	203'	3008-644'	25-814'		6103'



Beam	Type	Size	Angle	Notes	Beam	Type	Size	Angle	Notes
✓	1 Beam	T2	15" I @ 42.9°	x 34' 43"	✓	1 Beam	AC2	15" I @ 42.9°	x 34'
✓	1 "	W2	" "	x 34' 58"	✓	1 "	AD2	" "	x 35'
✓	1 "	Y2	" "	x 34' 42"	✓	1 "	AE2	" "	x 33'
✓	1 "	AA2	" "	x 33' 76"	✓	1 "	AF2	" "	x 34'
✓	1 "	AB2	" "	x 34' 104"	✓	1 "	AG2	" "	x 34'



Rivets $\frac{3}{4}$ " Holes $\frac{13}{16}$ " except as noted.
Shop & Assem. Paint - One coat
Black Graphite.

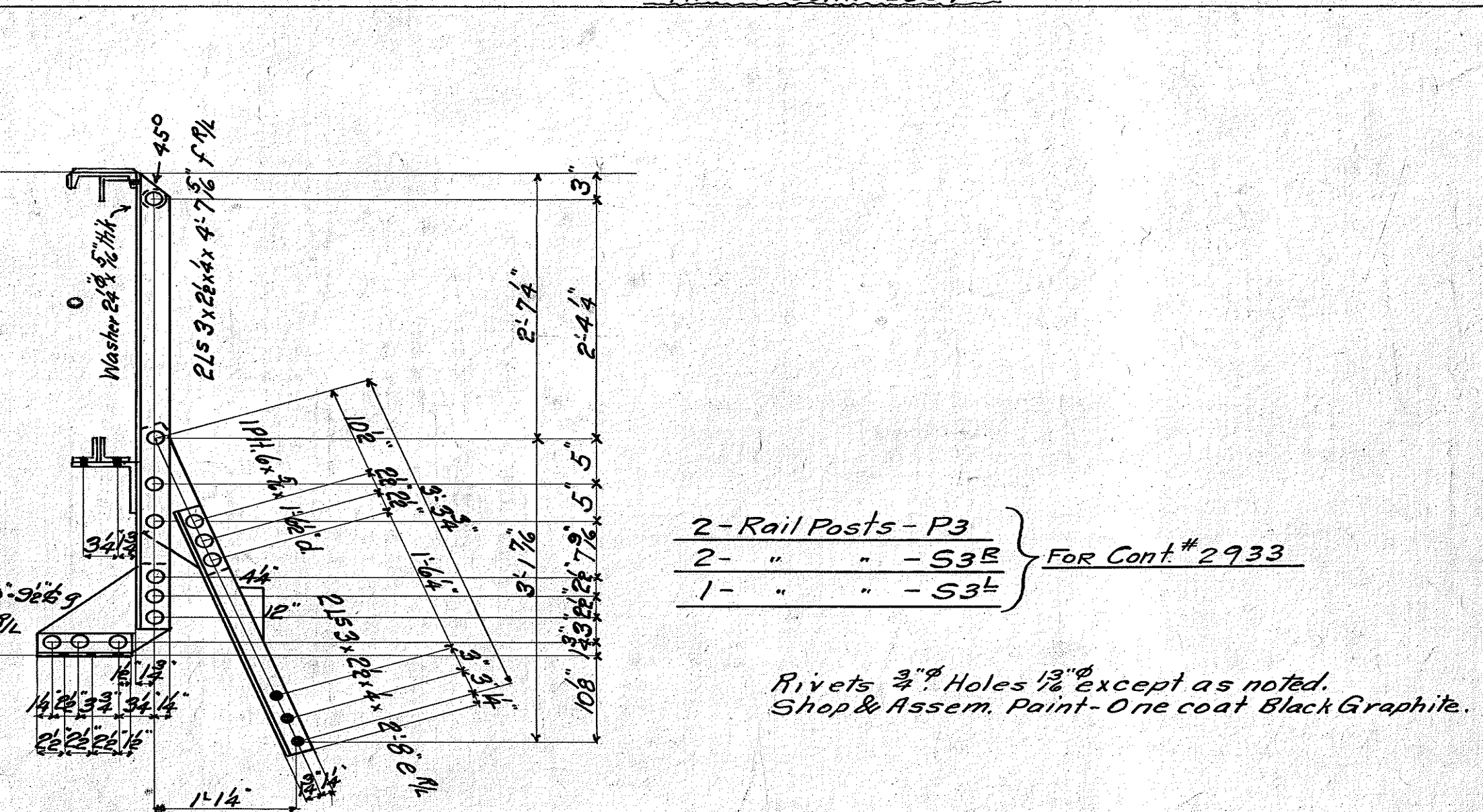
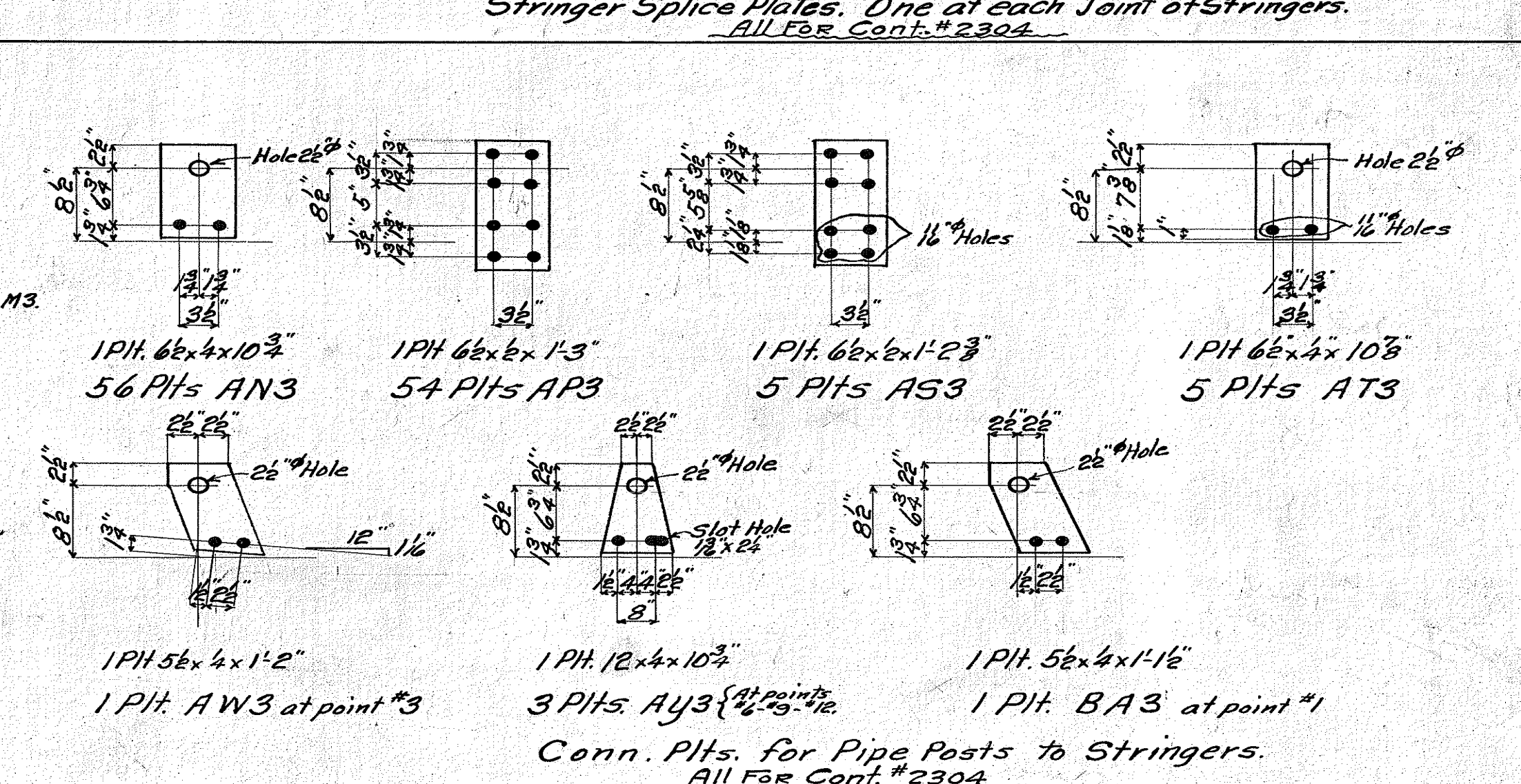
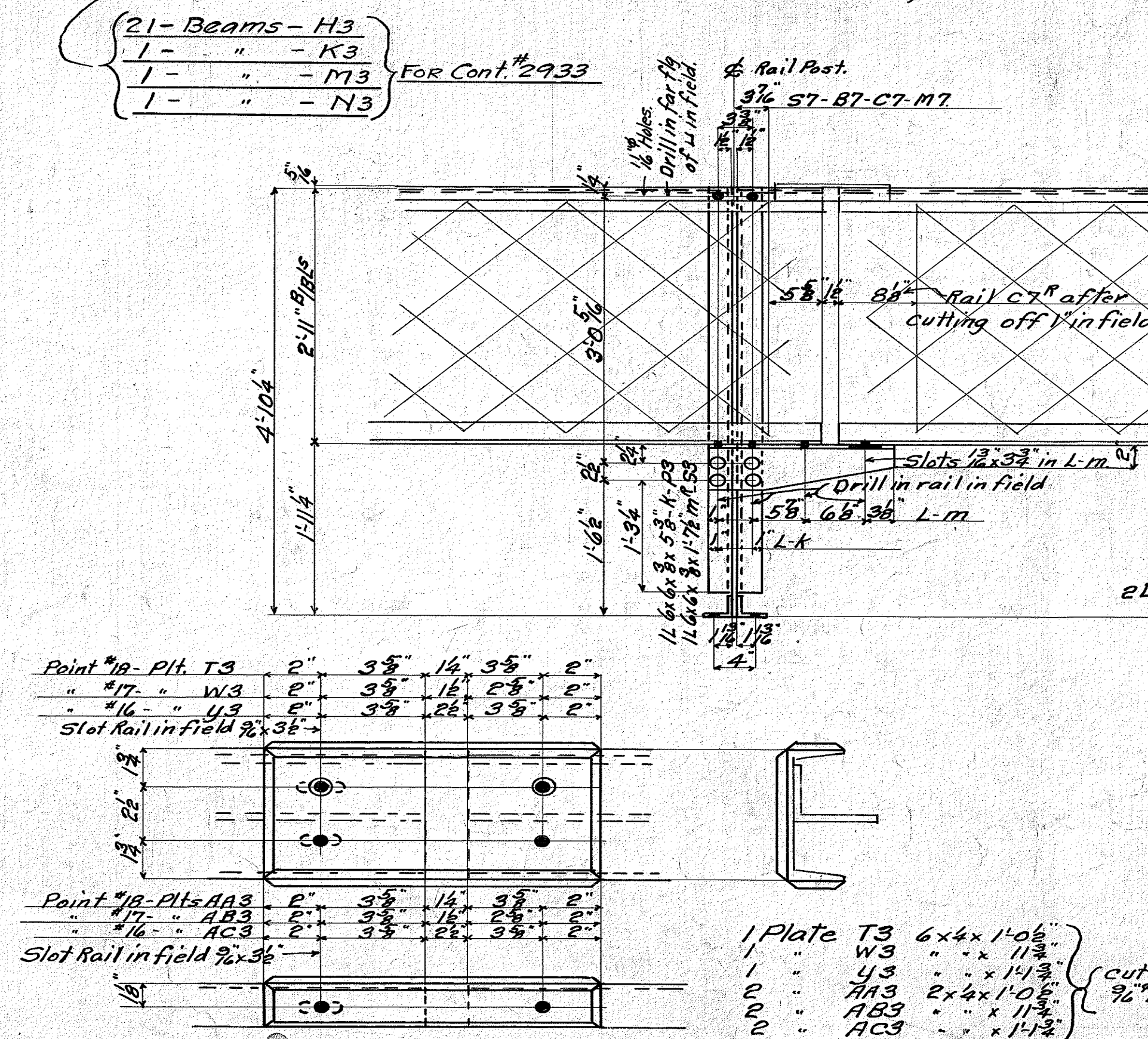
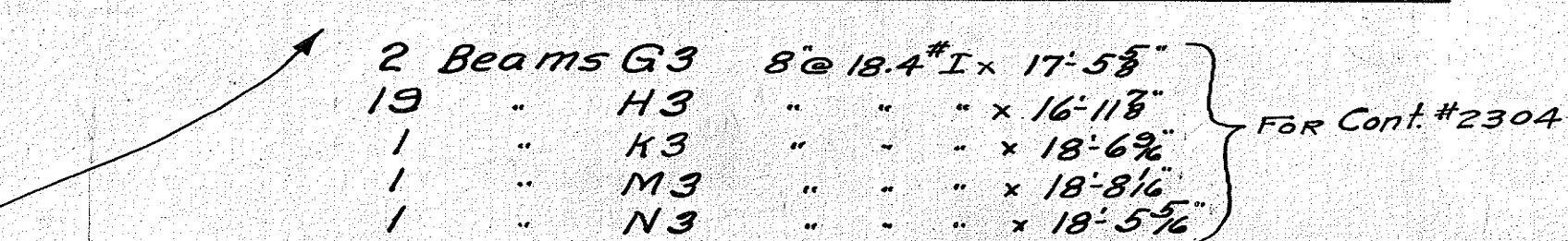
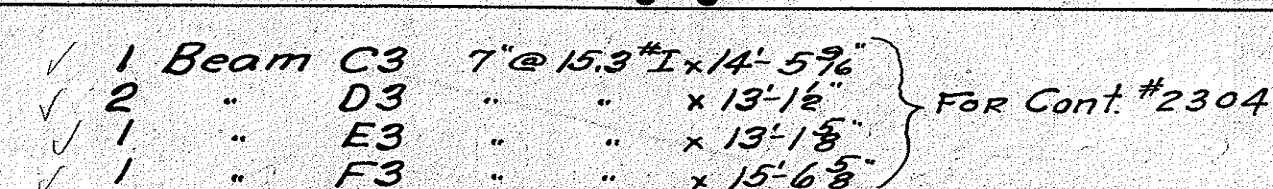
LAST SHIPPING MARK *AG2*
LAST ASSEMBLING MARK *t*

FOR The Standard Engineering Co.
DESCRIPTION Side walk for Columbia Heights Viaduct
Massillon, Ohio.

THE MASSILLON BRIDGE AND STRUCTURAL CO.
MASSILLON, OHIO

MADE BY CLB DATE 11/3/20 CHECKED BY _____ DATE _____
 2 TRACED BY _____ DATE _____ REVISED _____

CONTRACT No. 2304.



2-Rail Posts - P3
2- " " - S3E
1- " " - S3E } FOR Cont. # 2933

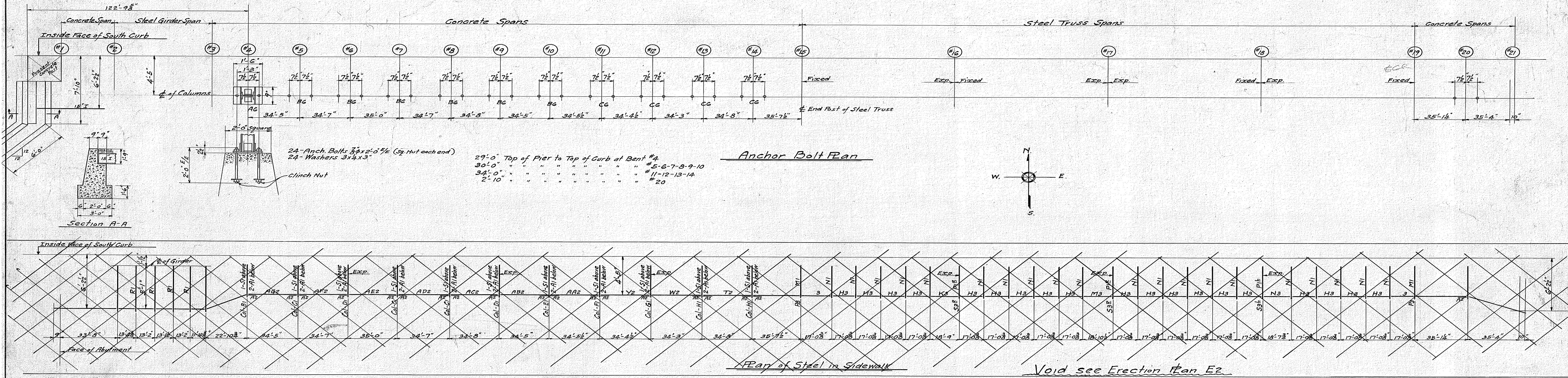
Rivets $\frac{3}{4}" \phi$ Holes $\frac{13}{16}" \phi$ except as noted.
Shop & Assem. Paint - One coat Black Graphite.

FOR The Standard Engineering Co.
DESCRIPTION Sidewalk for Columbia Heights Viaduct.
Massillon, Ohio.
DETAILS OF Beams, Rail Posts etc.

THE MASSILLON BRIDGE AND STRUCTURAL CO.
MASSILLON, OHIO

MADE BY CLB DATE 11/6/20 CHECKED BY _____ DATE _____
TRACED BY _____ DATE _____ REVISED _____
SCALE 1 IN. = ONE FOOT

CONTRACT No. 2304 and 2933

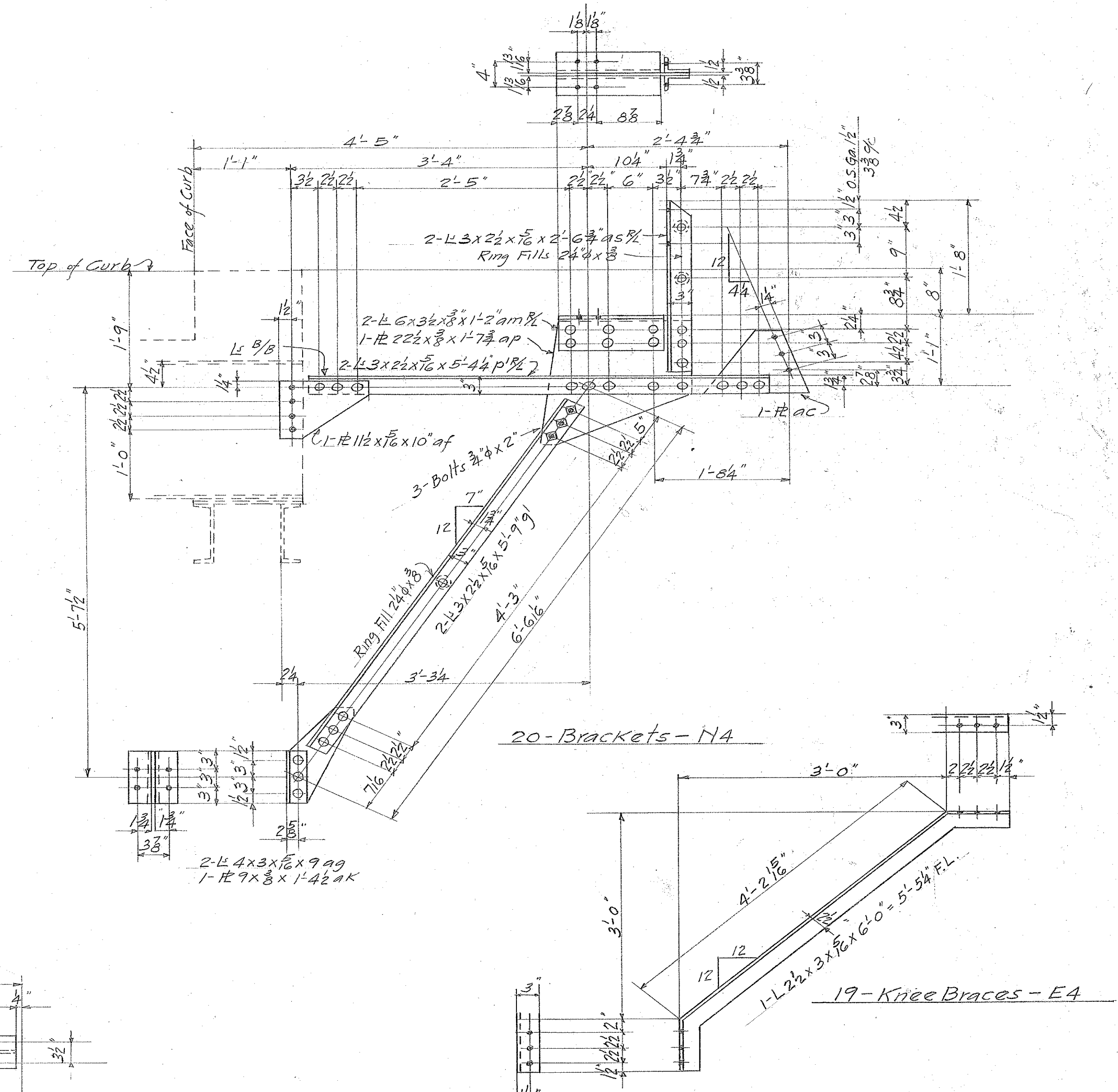
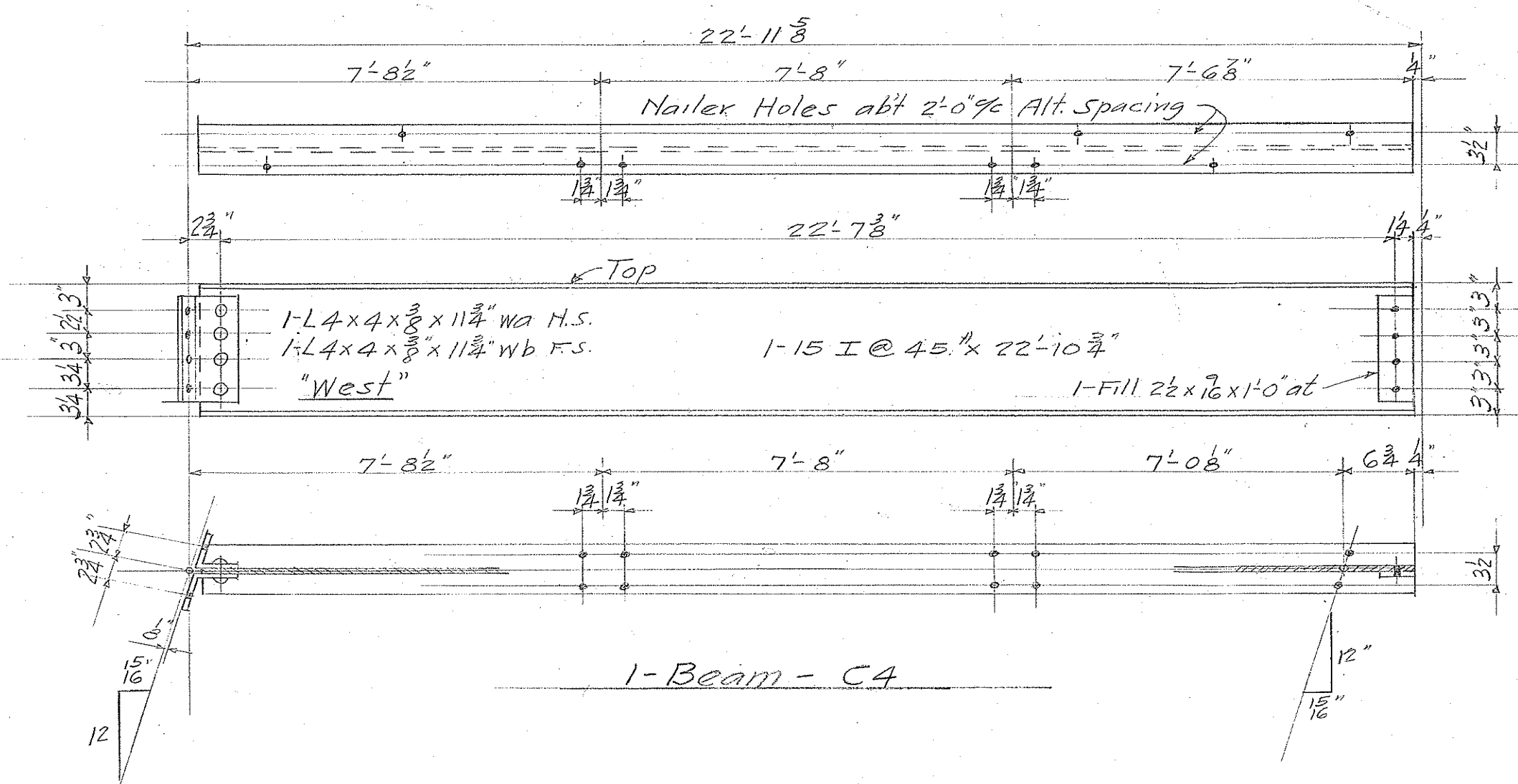
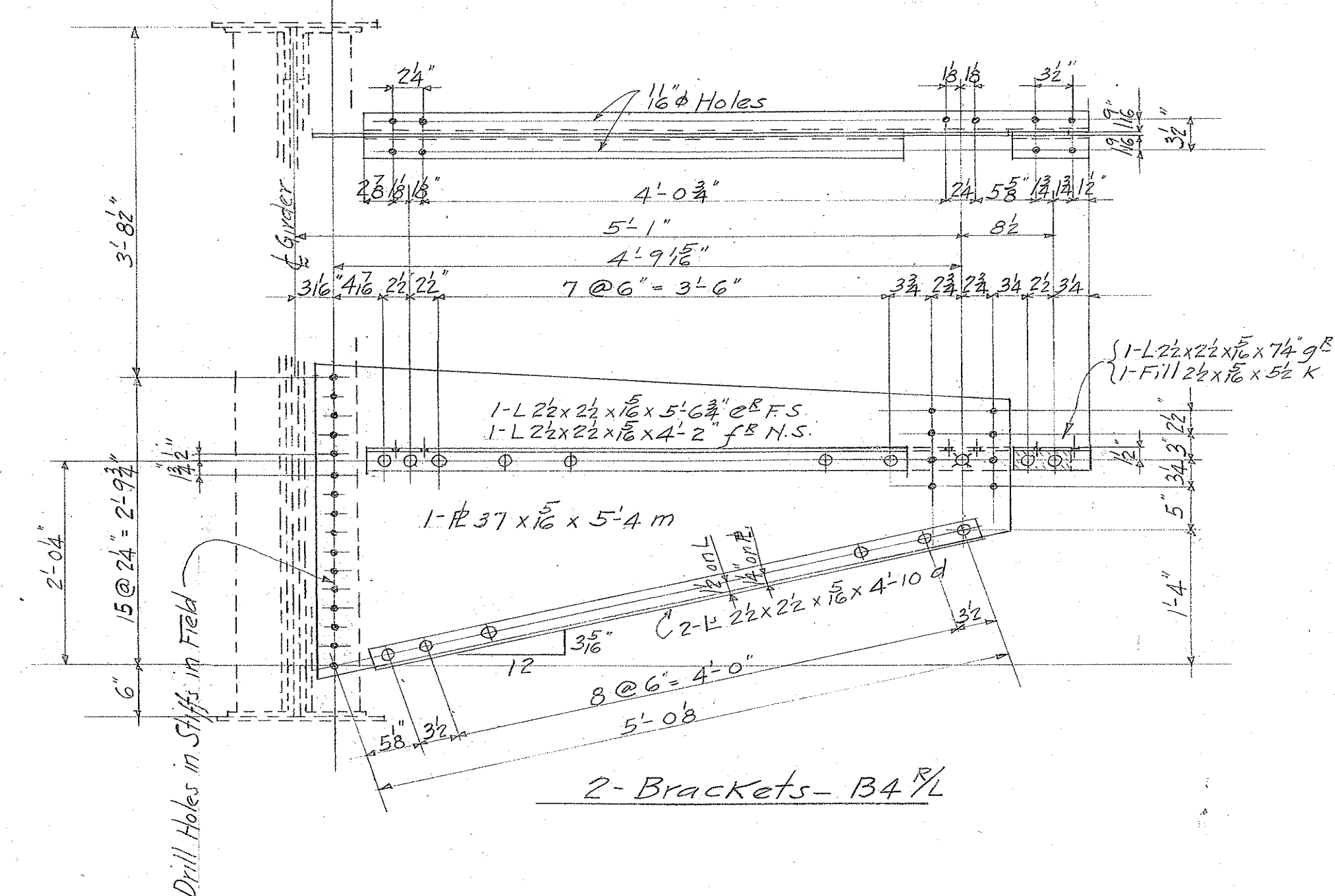


SENT					FINAL APPROVAL	PRINT ISSUED
RETURNED						
FOR <u>Stark County Commissioners</u>						
DESCRIPTION <u>Sidewalk for Columbia Heights Viaduct</u>						
DETAILS OF <u>Anchor Bolt Plan</u>						
THE MASSILLON BRIDGE AND STRUCTURAL CO.						
MASSILLON, OHIO						
MADE BY <u>WLS</u> DATE _____ CHECKED BY _____ DATE _____						
TRACED BY _____ DATE _____ REVISED _____						
SCALE _____ IN. = ONE FOOT						
CONTRACT No. <u>2933</u>						



LAST SHIPPING MARK
LAST ASSEMBLING MARK
BILL OF MATERIAL

File No. 36



Rivets = $\frac{3}{4}" \phi$
Holes = $\frac{13}{16}" \phi$ except as noted
Paint = one coat Black Graphite as per County Specifications

SENT					FINAL APPROVAL	PRINT ISSUED
RETURNED						

FOR Stark County Commissioners

DESCRIPTION Sidewalk for Columbia Heights Viaduct
Massillon, Ohio

DETAILS OF Brackets & Beam

THE MASSILLON BRIDGE AND STRUCTURAL CO.

MASSILLON, OHIO

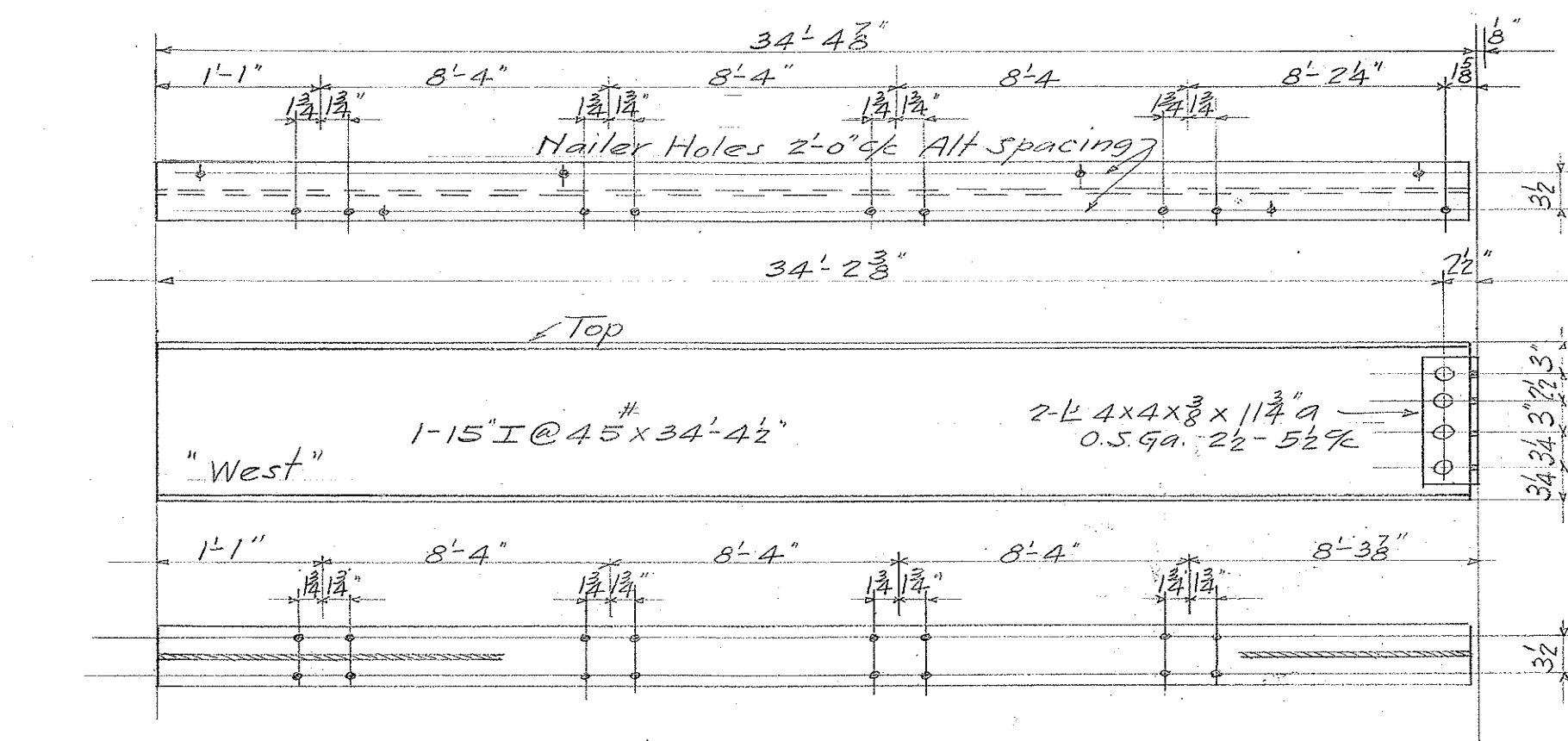
MADE BY W.L.S. DATE 7/2/26 CHECKED BY _____ DATE _____

TRACED BY ✓ DATE ✓ REVISED _____

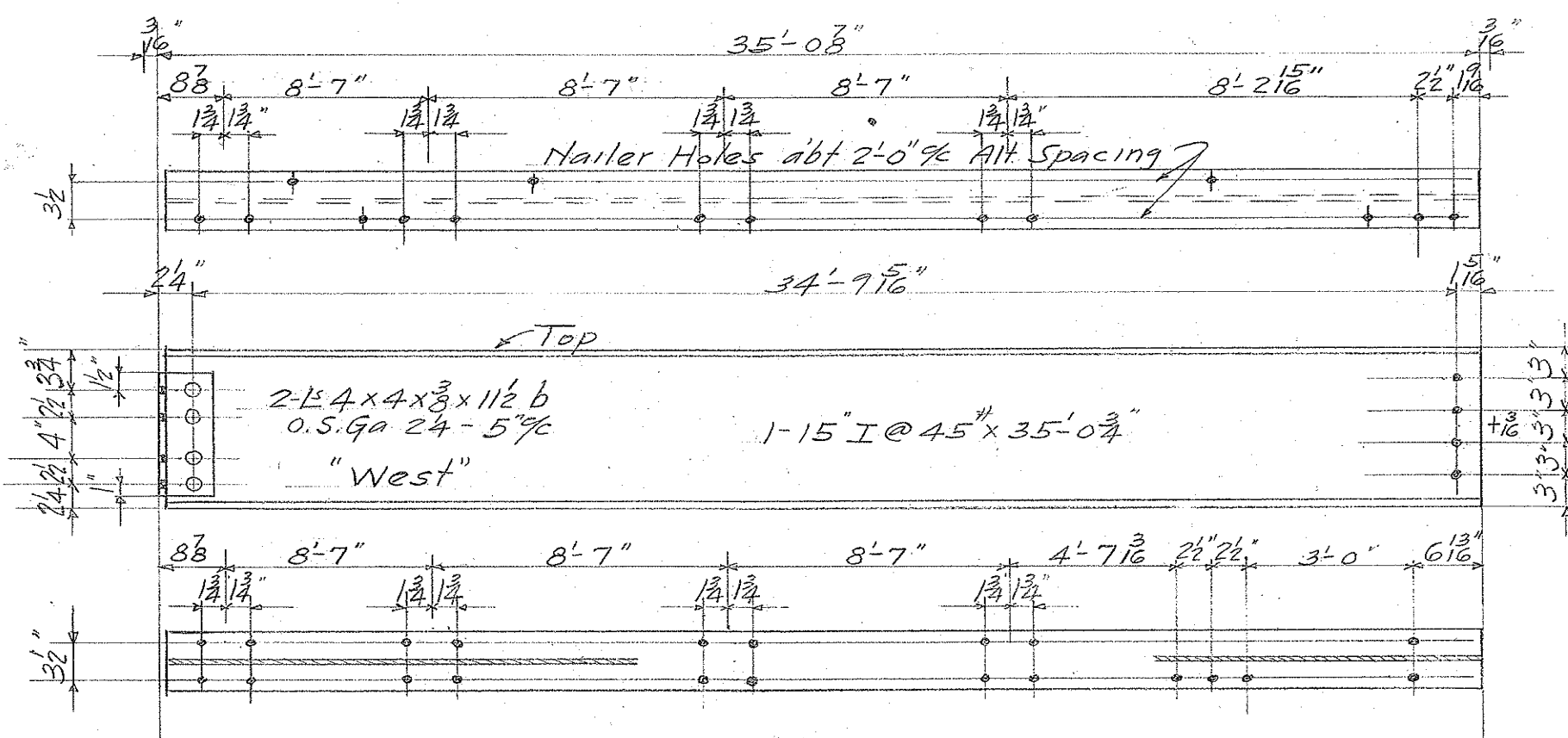
SCALE 1 IN. = ONE FOOT

CONTRACT No. 2933

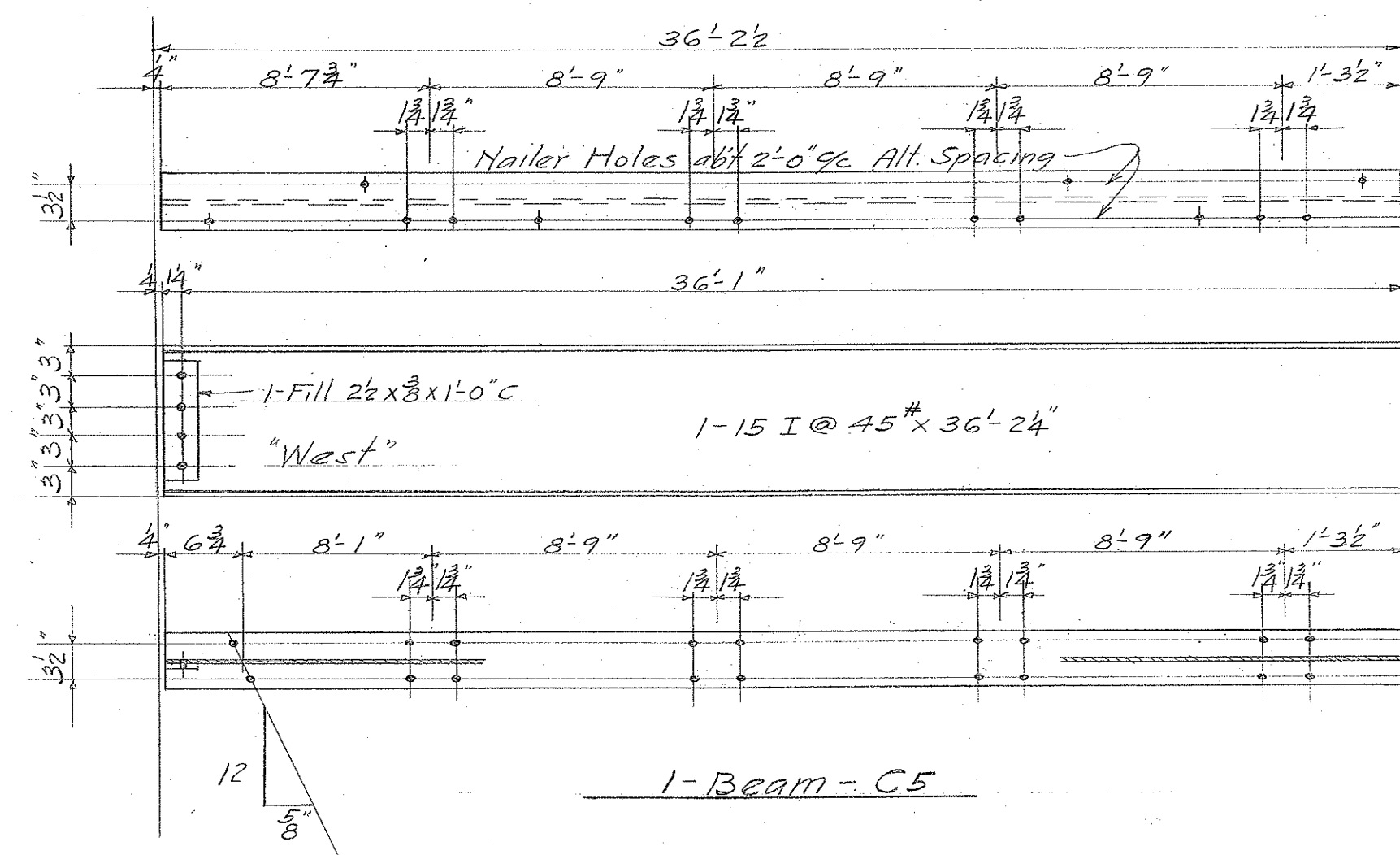
LAST SHIPPING MARK *N4*
LAST ASSEMBLING MARK *at*
BILL OF MATERIAL *5-6*



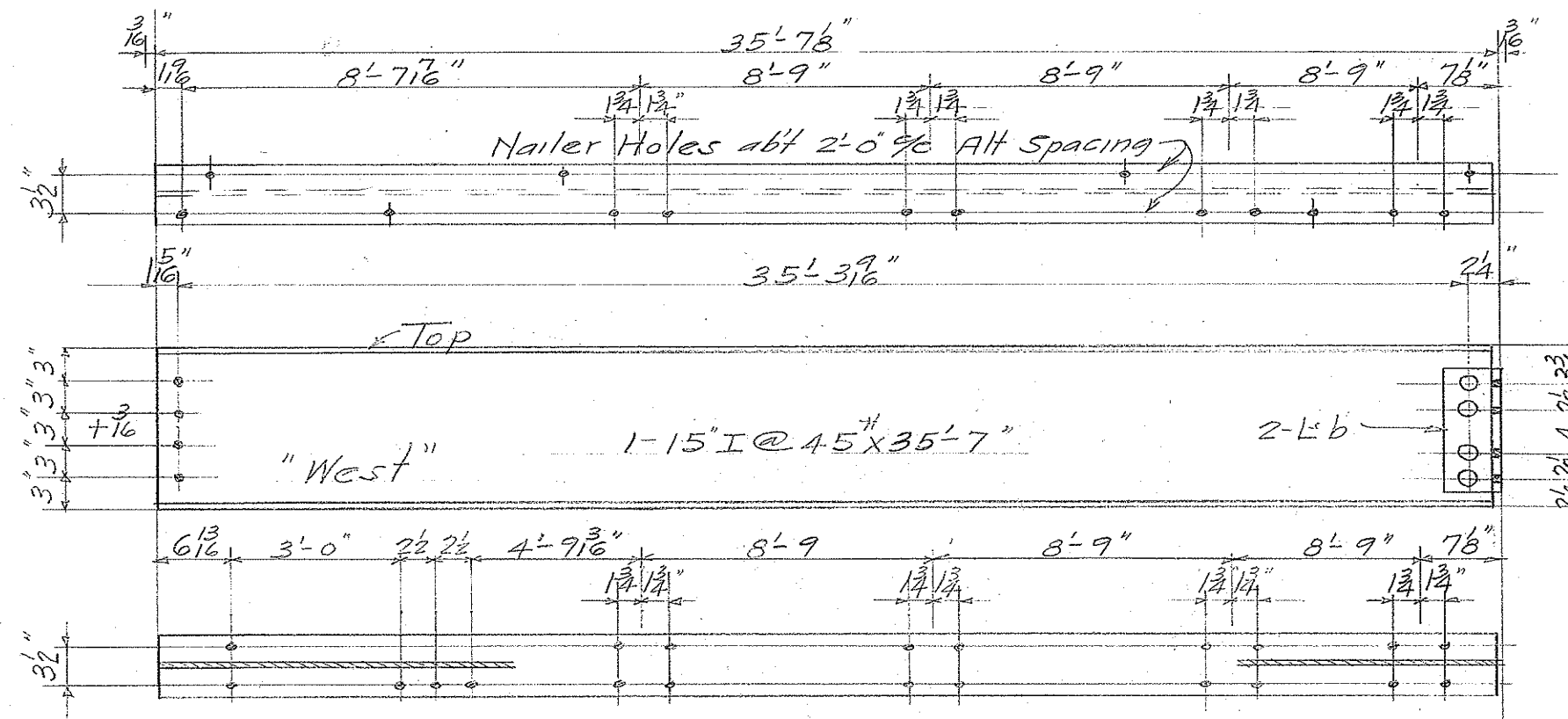
1-Beam-A5



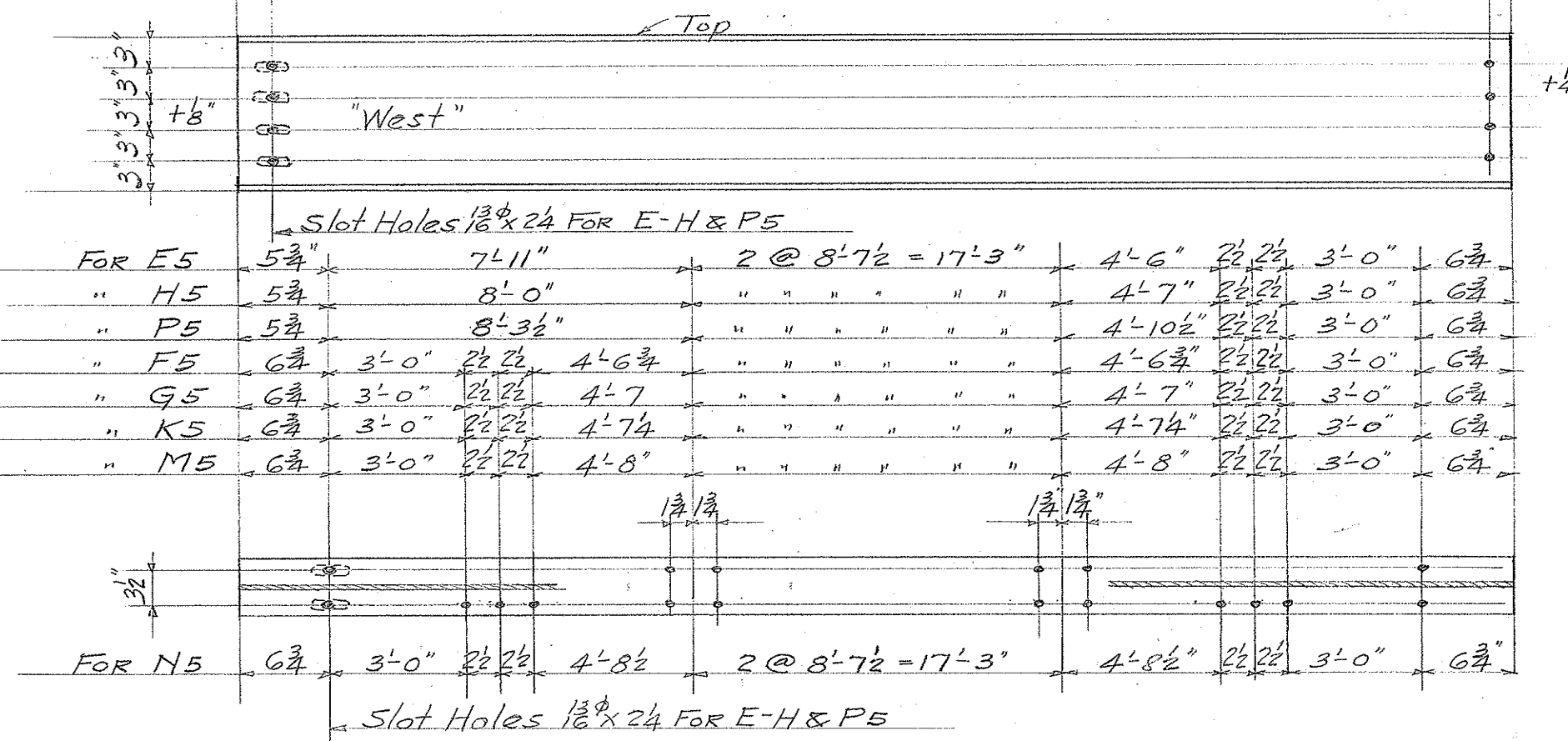
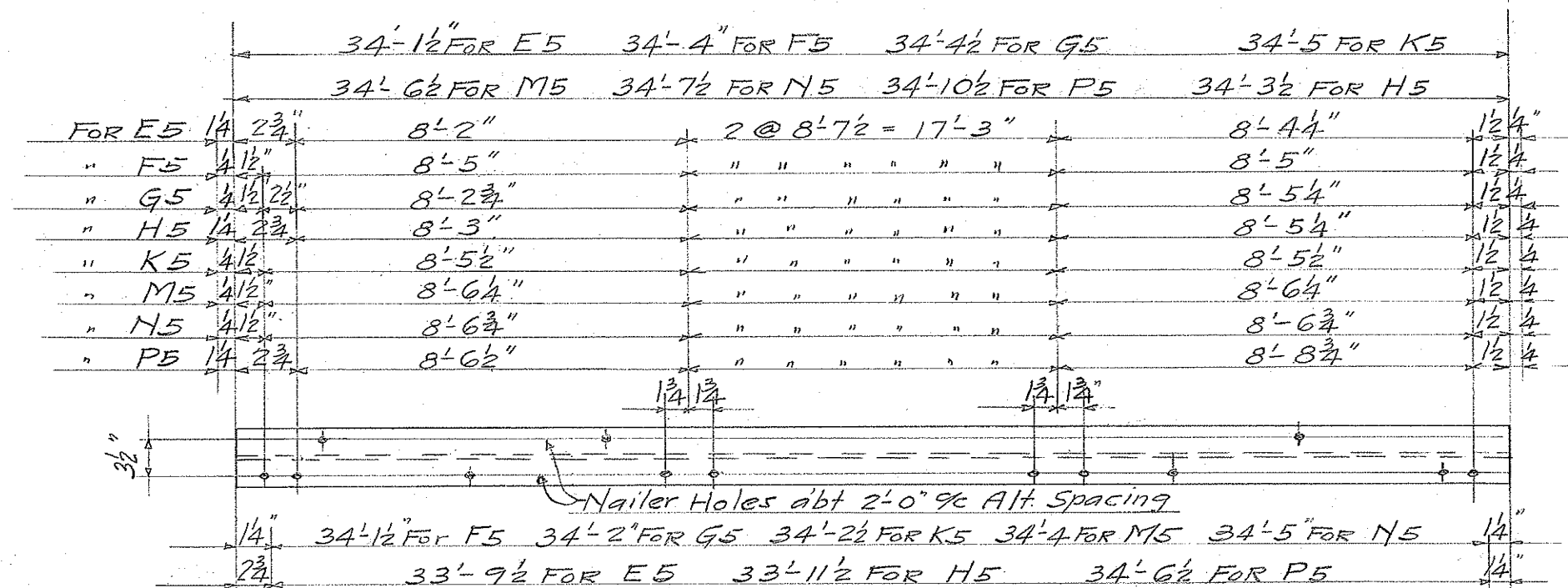
1-Beam-B5



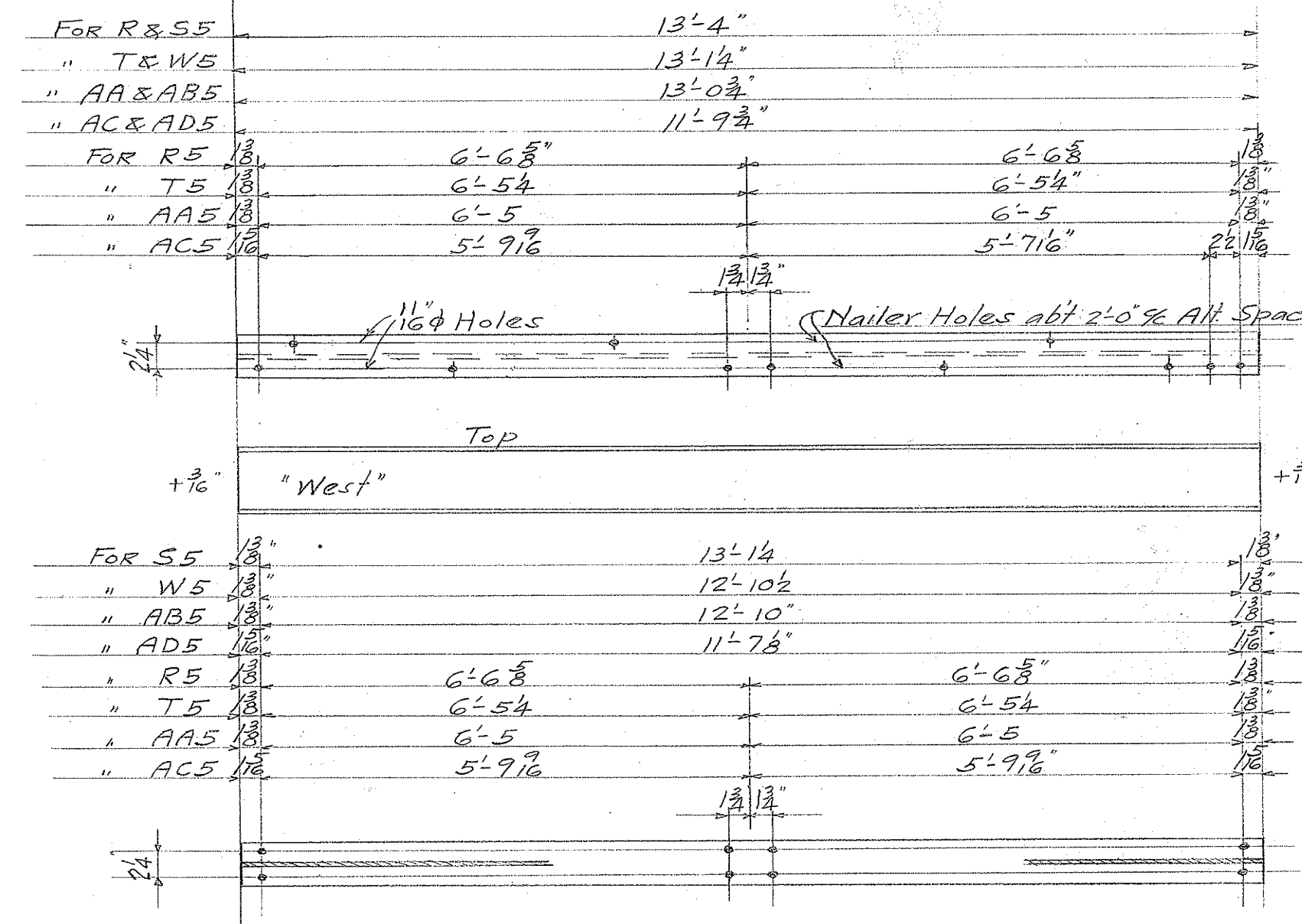
1-Beam-C5



1-Beam-D5



- 1-Beam-E5 15'I@45"x34'-1 1/2" (ord 34'-2 1/2")
- 1- " - F5 " " " " x34'-4"
- 1- " - G5 " " " " x34'-4 1/2"
- 1- " - H5 " " " " x34'-3 1/2" (ord 34'-4 1/2")
- 1- " - K5 " " " " x34'-5"
- 2- " - M5 " " " " x34'-6 1/2"
- 2- " - N5 " " " " x34'-7 1/2"
- 1- " - P5 " " " " x34'-10 1/2" (ord 34'-11 1/2")



- 1-Beam-R5 } 1-7'I@17.5"x13'-4"
- 1- " - S5 } 1-7'I@17.5"x13'-14"
- 2- " - T5 } 1-7'I@17.5"x13'-14"
- 2- " - W5 } 1-7'I@17.5"x13'-14"
- 1- " - AA5 } 1-7'I@17.5"x13'-0 3/4"
- 1- " - AB5 } 1-7'I@17.5"x13'-0 3/4"
- 1- " - AC5 } 1-7'I@17.5"x11'-9 3/4"
- 1- " - AD5 } 1-7'I@17.5"x11'-9 3/4"

Rivets = 3/4"φ
Holes = 1 1/2" except as noted
Paint = One coat Black Graphite as per County Specifications

LAST SHIPPING MARK AD5
LAST ASSEMBLING MARK C
BILL OF MATERIAL 7-8-9

SENT	FINAL APPROVAL	PRINT ISSUED
RETURNED		
FOR <i>Stark County Commissioners</i>		
DESCRIPTION <i>Sidewalk for Columbia Heights Viaduct</i>		
DETAILS OF <i>Beams</i>		
THE MASSILLON BRIDGE AND STRUCTURAL CO. MASSILLON, OHIO		
MADE BY <i>WLS</i>	DATE <i>7/26</i>	CHECKED BY _____ DATE _____
TRACED BY _____	DATE _____	REVISED _____
SCALE _____ IN. = ONE FOOT		
CONTRACT No. <i>2933</i>		

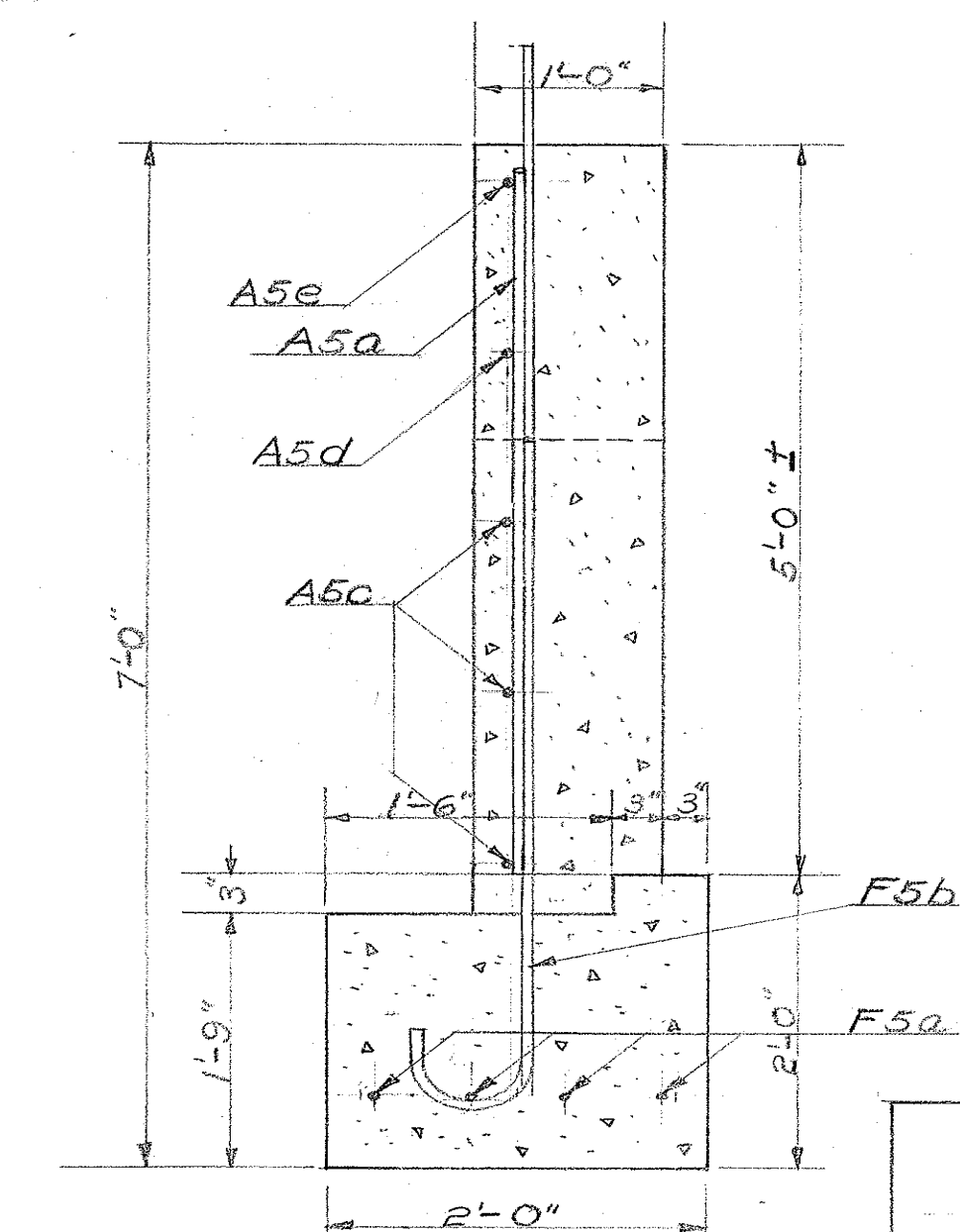
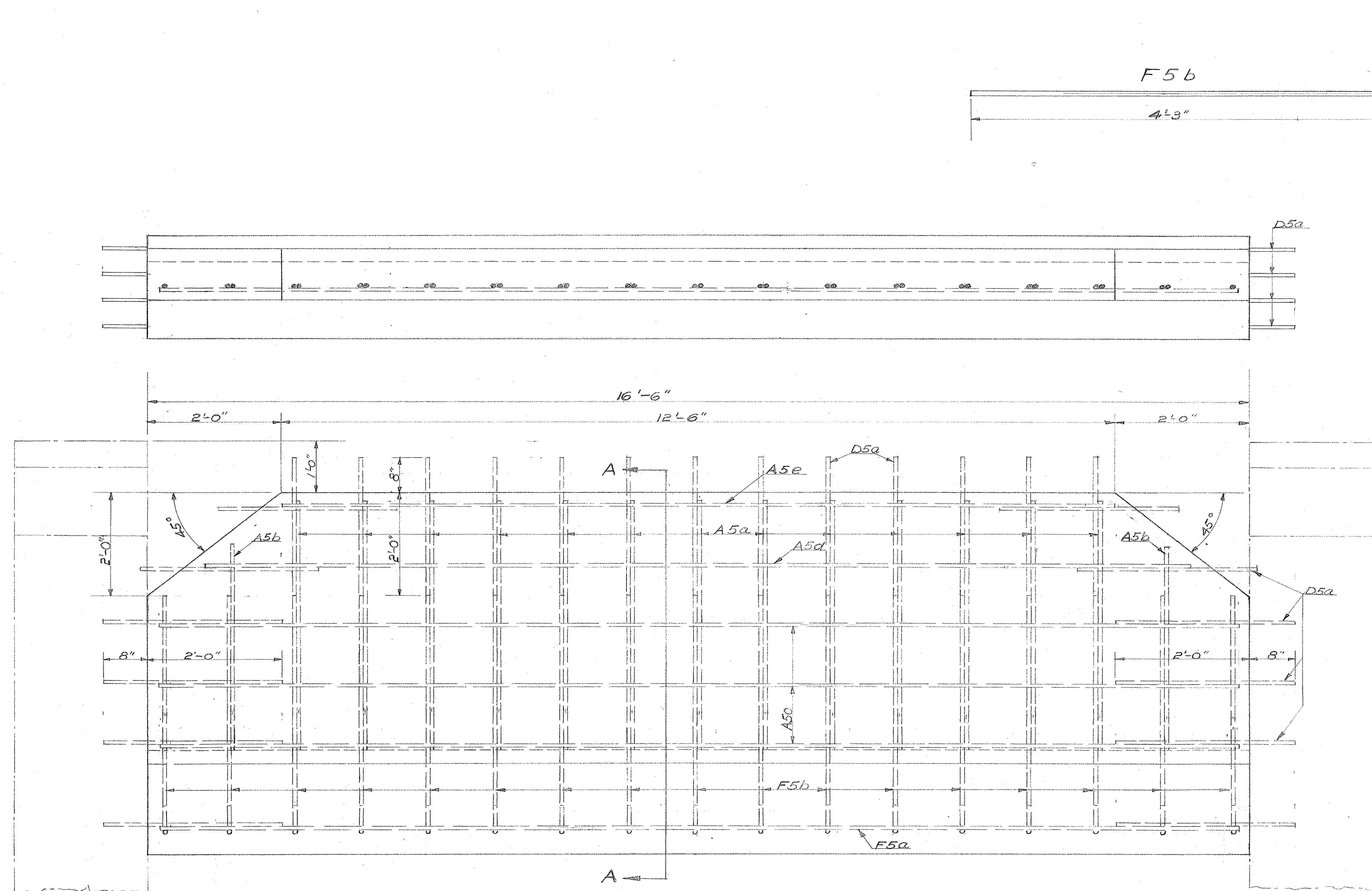
COUNTY	ROAD	BRIDGE	YEAR
STARK	OBERLIN	PE-17-33	1938

LIST OF REINFORCING STEEL						
Mark	Size	Spacing	Shape	No.	Length	Weight
F5a	3/4" ϕ	6"	Str.	4	16'-2"	97
F5b	3/4" ϕ	1'-0"	Bent	17	5'-4"	136
A5a	3/4" ϕ	1'-0"	Str.	13	4'-10"	94
A5b	3/4" ϕ	1'-0"	Str.	2	3'-11"	12
A5c	3/4" ϕ	1'-2"	Str.	3	16'-2"	73
A5d	3/4" ϕ	1'-2"	Str.	1	14'-9"	22
A5e	3/4" ϕ	1'-2"	Str.	1	12'-5"	19
D5a	3/4" ϕ	1'-9"	Str.	30	2'-8"	120
Total Weight						573

NOTE -

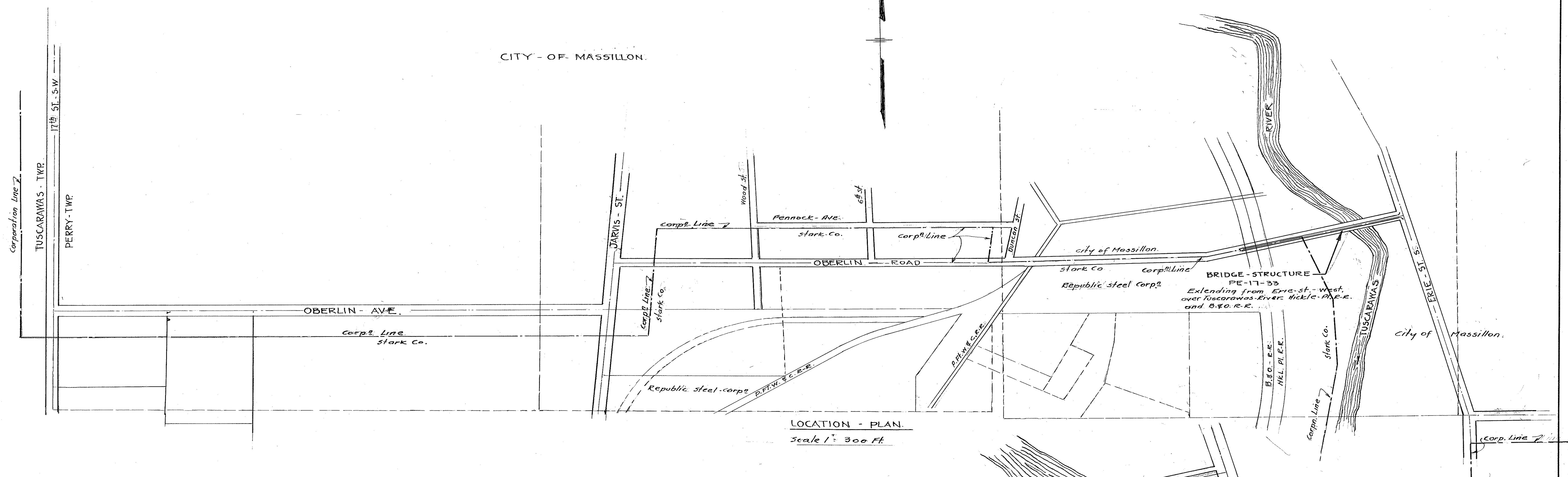
All Reinforcing Steel Must Clear Forms By A Minimum of 1/2" Unless Noted Otherwise.
Concrete To Be 1:5 1/2 Mix.

APPROXIMATE - CONCRETE IN FOOTER. 2 1/4 Cu. Yds.
" " " IN WALL 3 Cu. Yds.

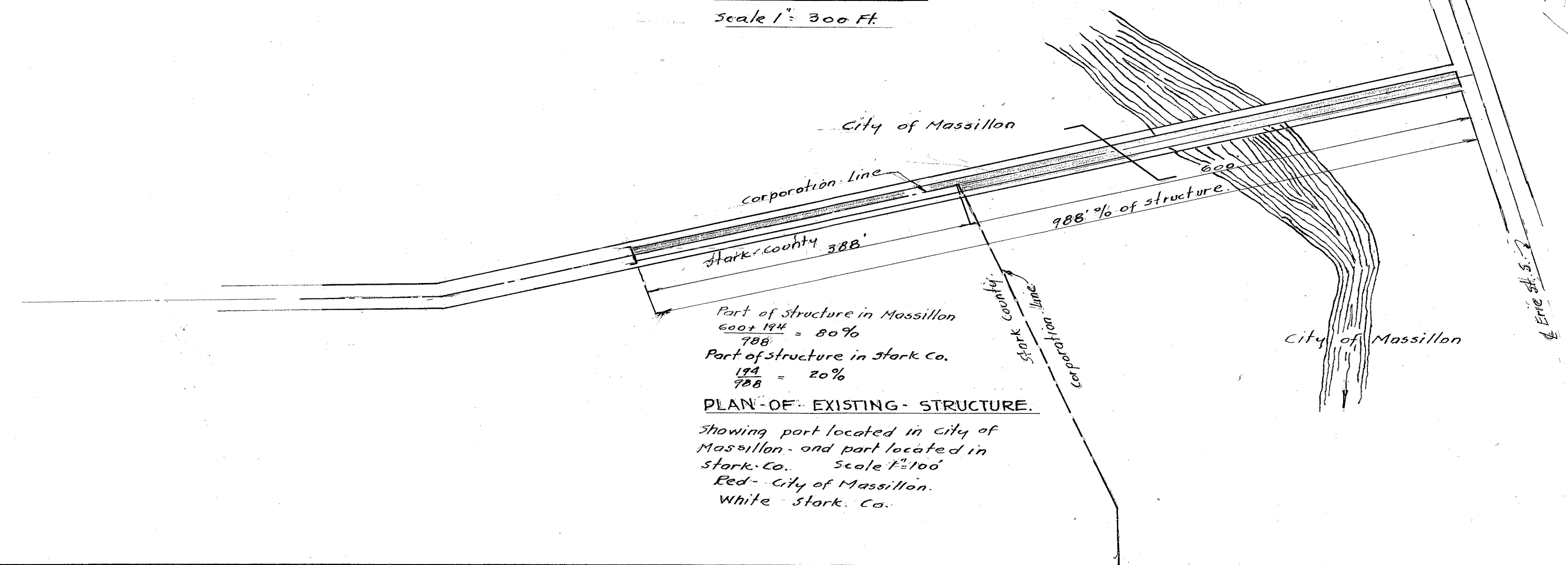


SECTION "AA"

STARK COUNTY, OHIO.			
CURTAIN WALL LAYOUT WITH REINFORCING STEEL & QUANTITIES AT WEST APPROACH, ON OBERLIN ROAD VIADUCT, IN MASSILLON, OHIO.			
STARK CO. BRIDGE NO. PE-17-33			
Designed By	Drawn By	Checked By	Reviewed By
W.T.H.	W.T.H.	W.T.H.	



LOCATION - PLAN.
Scale 1" = 300 Ft.



PLAN OF EXISTING STRUCTURE.
Showing part located in City of Massillon - and part located in Stark Co. Scale 1" = 100'.
Red - City of Massillon.
White - Stark Co.

STARK COUNTY, OHIO			
BRIDGE No.		PE-17-33.	
LOCATION - PLAN.			
ON - OBERLIN - RD - MASSILLON - PERRY - TWP.			
DESIGNED	DRAWN	CHECKED	REVIEWED
	JKH 11/20/54		