

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COLUMBIA AVENUE VIADUCT OVER EGGLESTON AVENUE

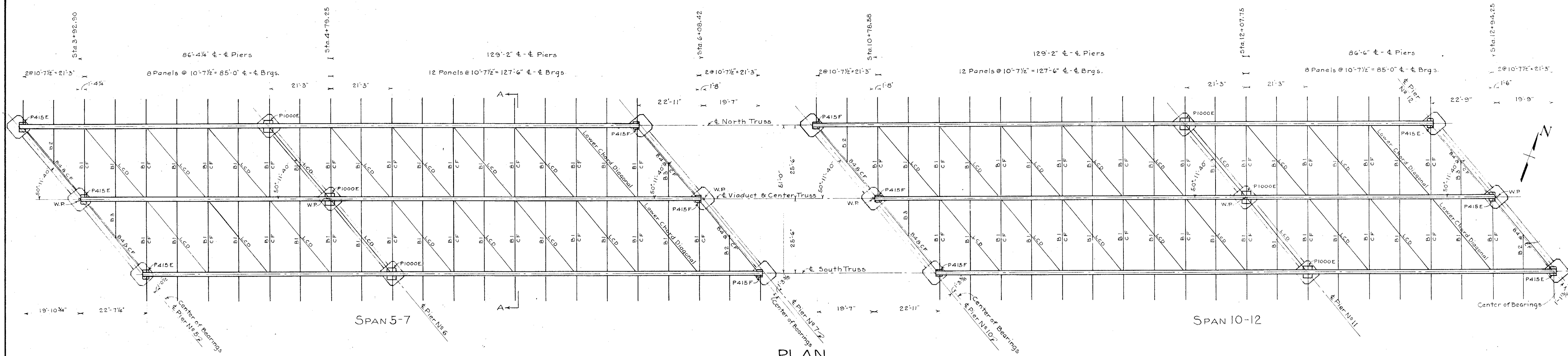
LOCATION PLAN

SCALE: 1"=80' 8"=40' APRIL 15, 1936 ISSUE: 1

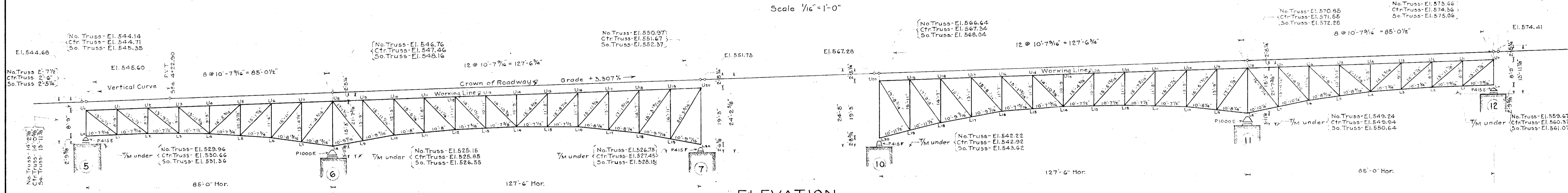
SUBMITTED: *[Signature]* APPROVED: *[Signature]*
SPECIAL ENGINEER ENGINEER & HIGHWAYS

APPROVED: *[Signature]* APPROVED: *[Signature]*
DIRECTOR OF PUBLIC WORKS CITY ENGINEER

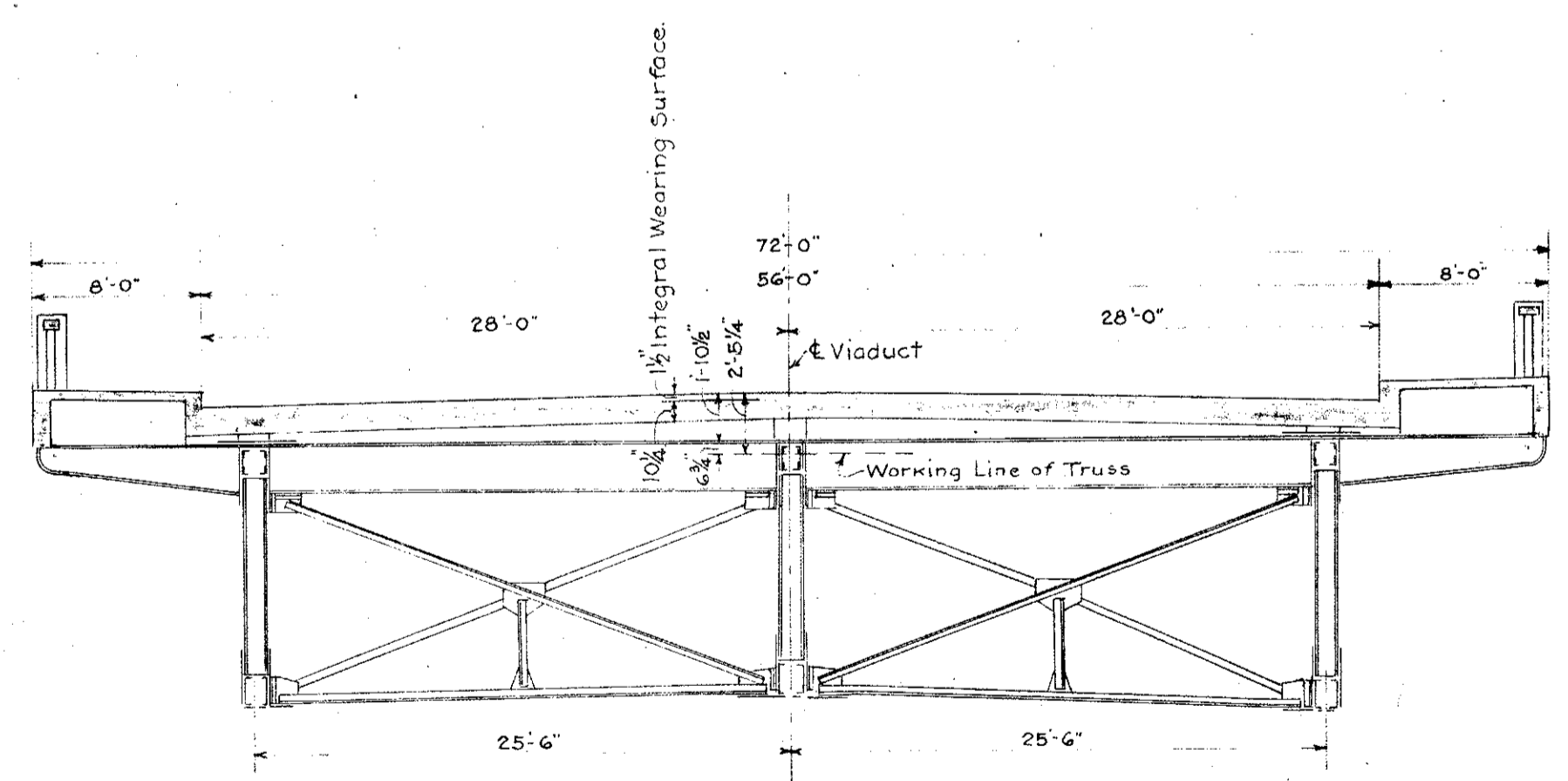
Issue No.	Revision	Date	By	Sig.



PLAN
Scale 1/16" = 1'-0"



ELEVATION
Scale 1/16" = 1'-0"



SECTION A-A
Scale 1/8" = 1'-0"

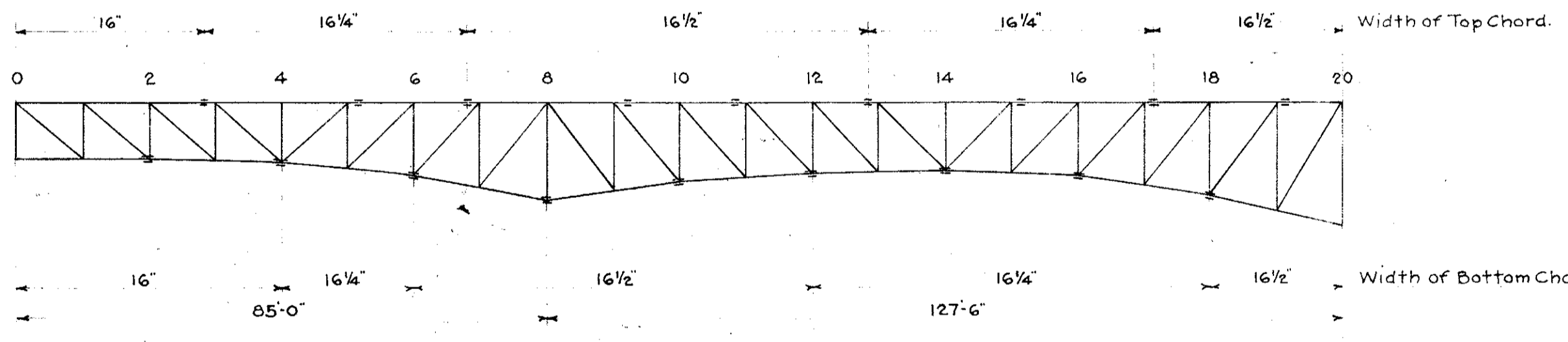
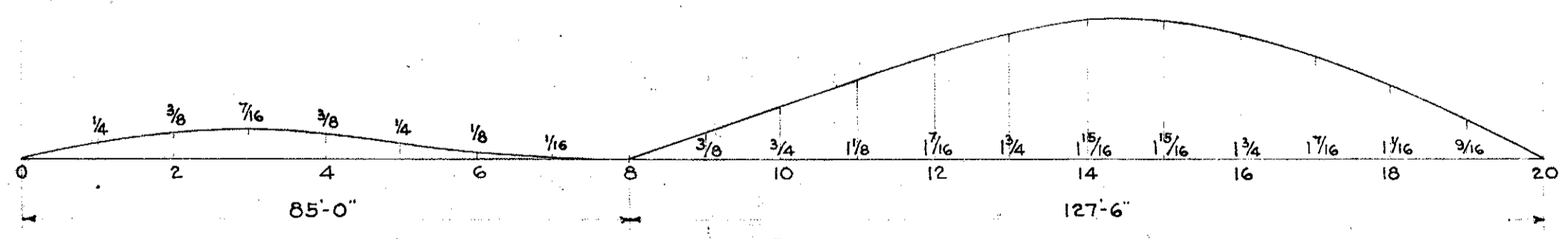


DIAGRAM SHOWING CHORD WIDTHS & LOCATION OF CHORD SPLICES



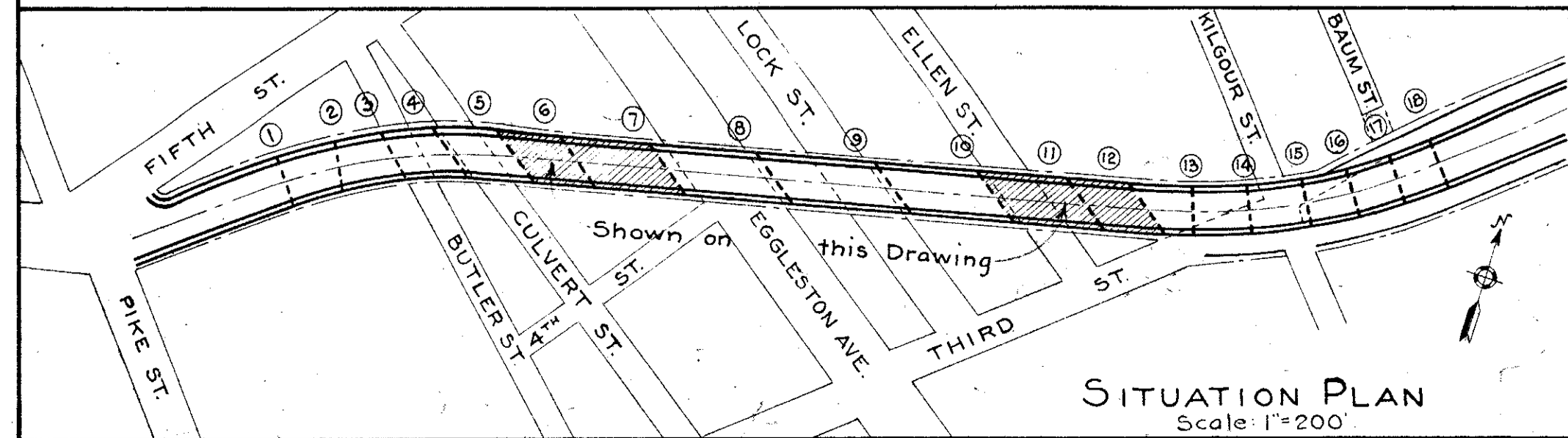
CAMBER DIAGRAM

NOTE:
In order to counteract secondary stresses in the chords at U₈ & L₈, the contractor shall arrange to shorten diagonals U₈L₇ & U₈L₉ 1/32 each after all joints from U₆ & L₆ to U₁₀ & L₁₀ are riveted, (except for rivets in one end of diagonals to be drawn up), or the contractor may use such other approved method as will accomplish the same result.

GENERAL NOTES
 SPECIFICATIONS: Design to be in accordance with the Ohio Department of Highways' Specifications for Design of Highway Structures dated September, 1933. Material, Fabrication, Erection and Painting to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.
 DEAD LOAD: The assumed dead load contains an allowance of 25 lbs. per sq. ft. of roadway for future wearing surface.
 LIVE LOAD: - H-20-33 at 18 000 lbs. per sq. inch basic unit stress.
 RIVETS: - 7/8"
 ANCHOR BOLTS: - Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.
 BEARING AREAS: - To be dressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.

ESTIMATED WEIGHT OF STEEL: - 12 750

ISSUE NO.	REVISION	DATE	SIG.	SIG.



SITUATION PLAN
Scale 1" = 200'

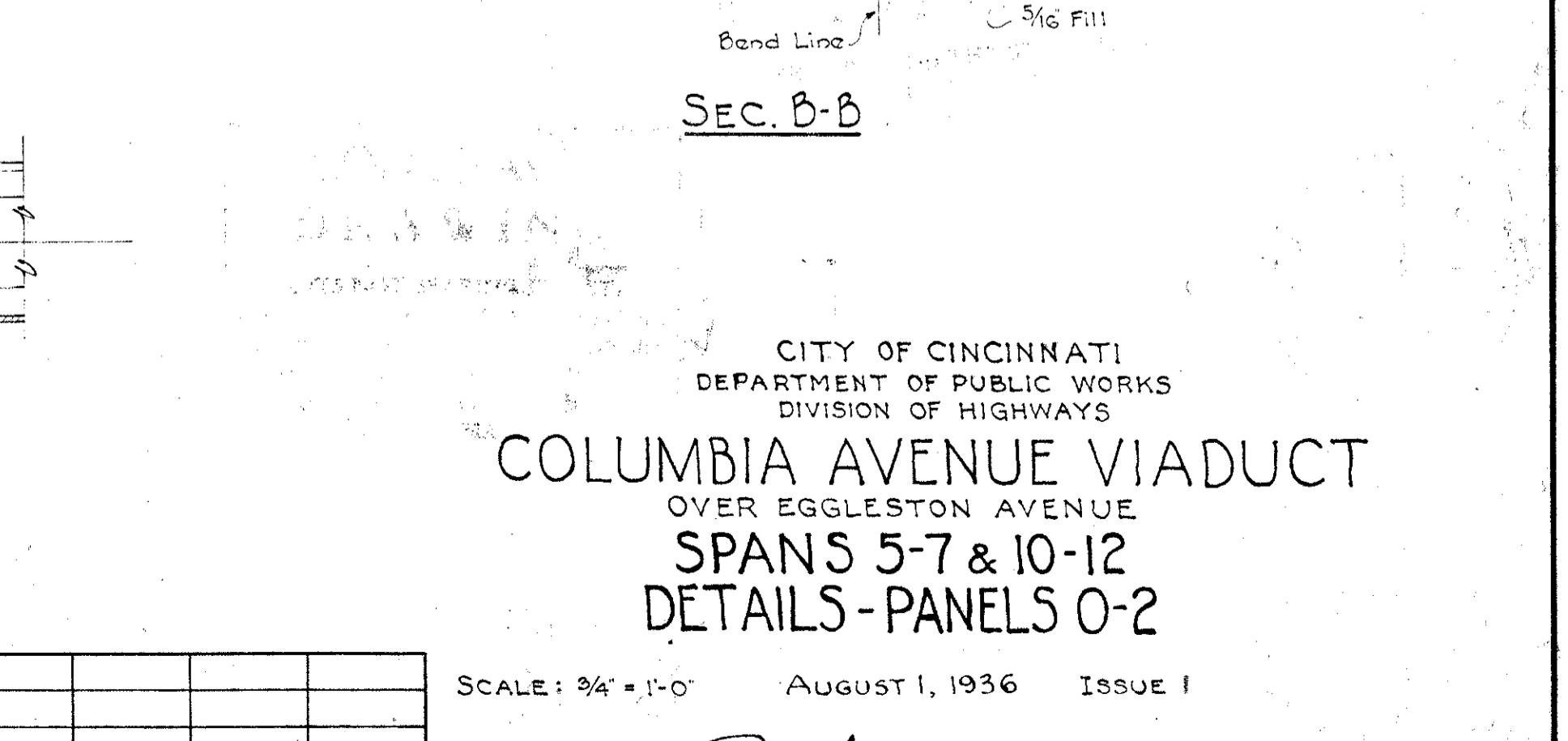
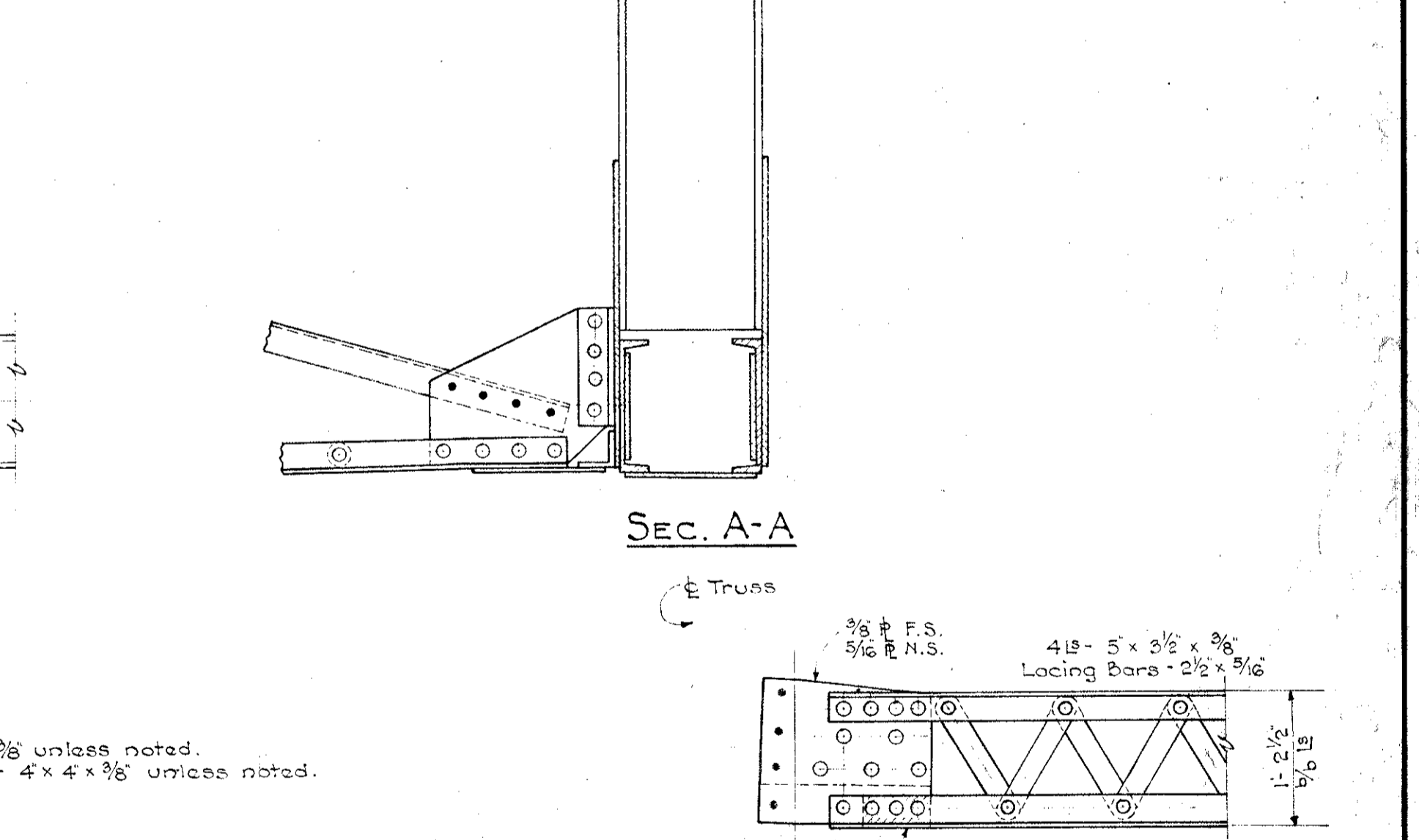
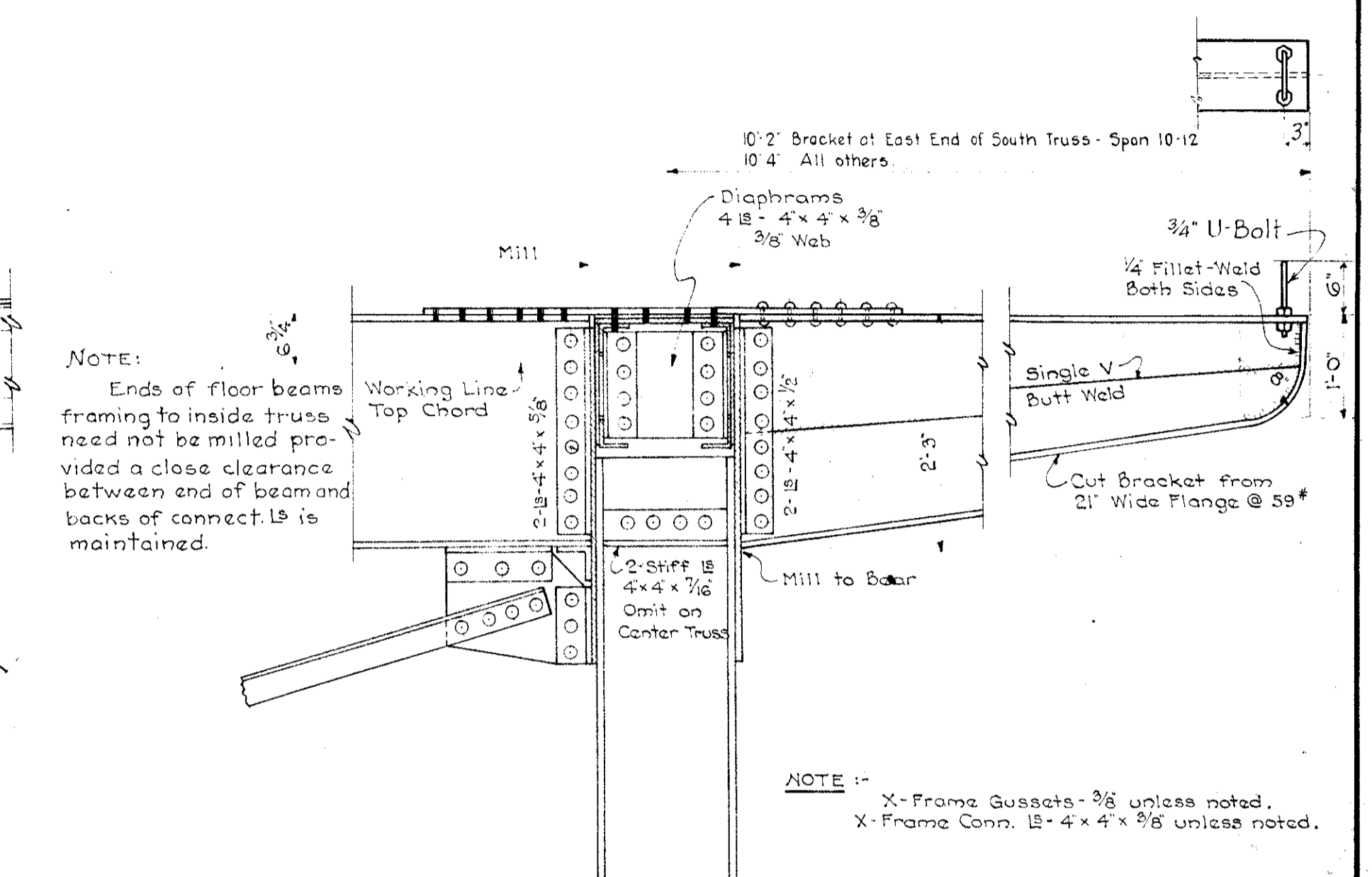
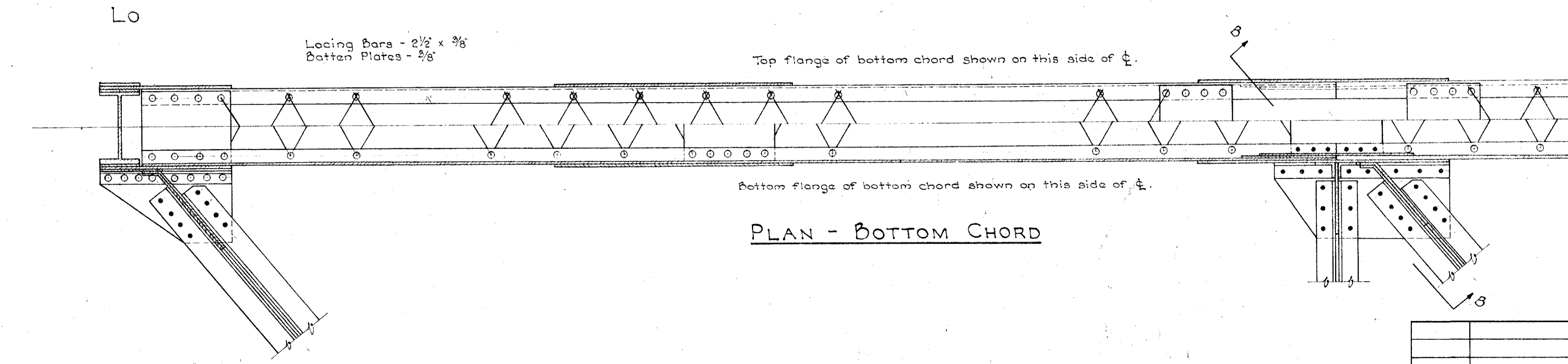
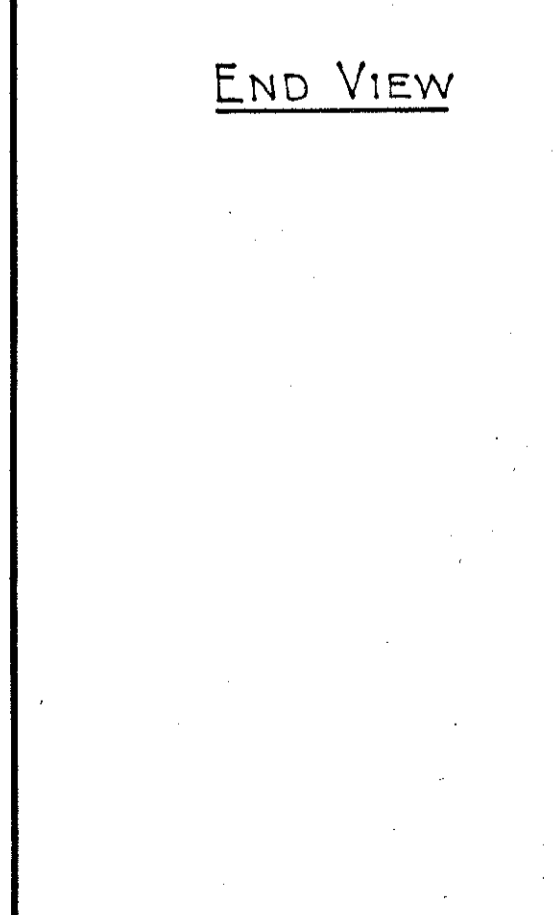
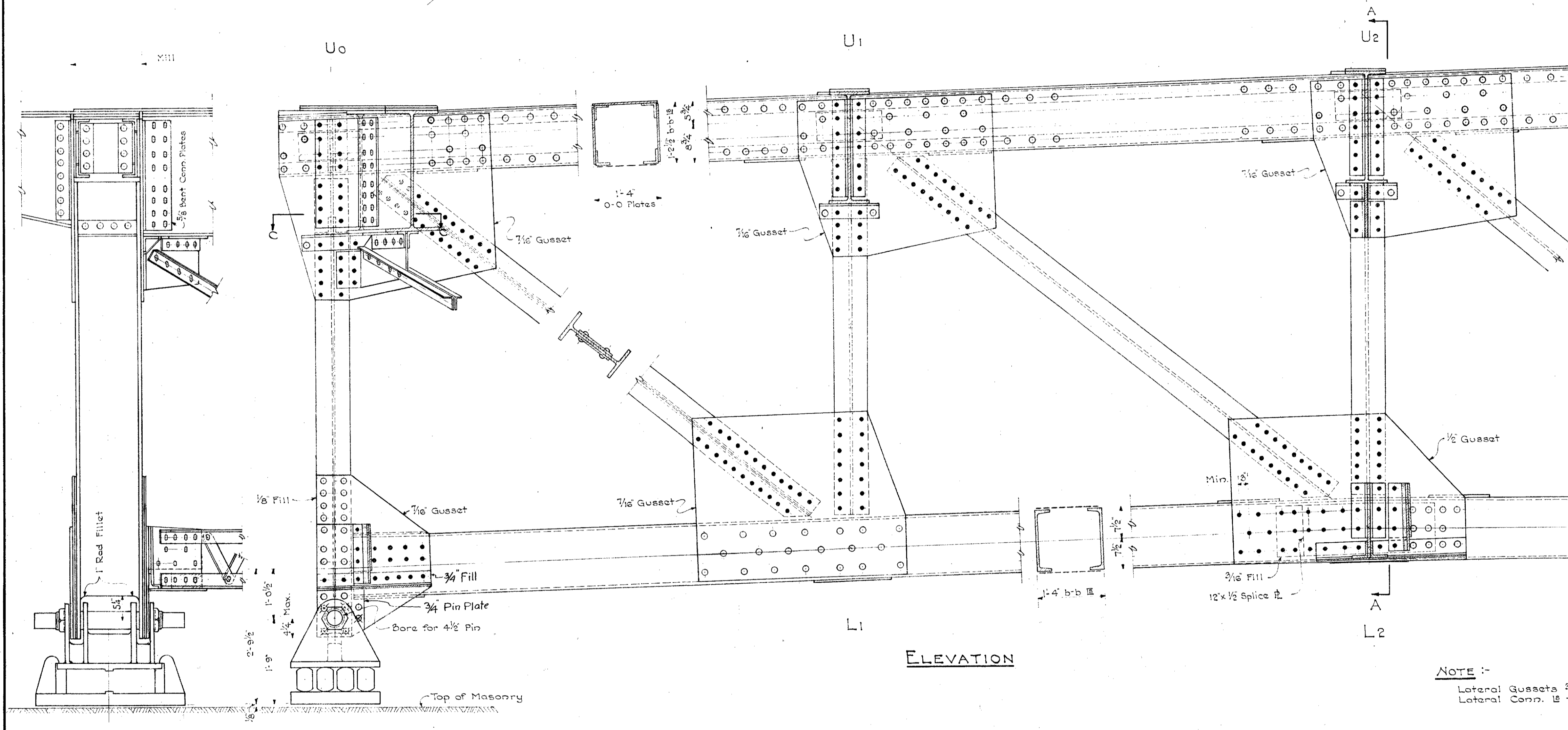
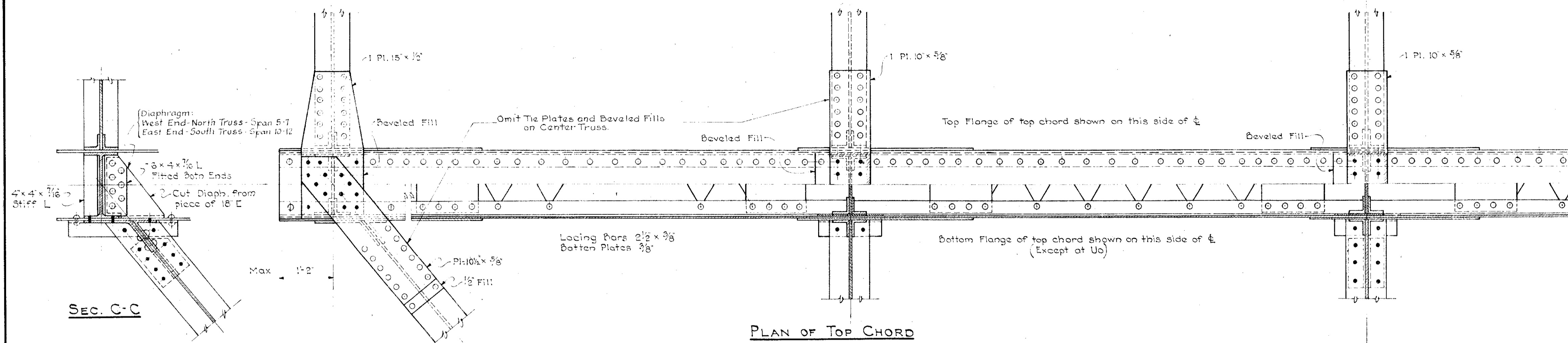
CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
SPANS 5-7 & 10-12
PLAN & ELEVATION

SCALE: AS NOTED AUGUST 1, 1936 ISSUE: 1
 SUBMITTED: [Signature] ENGINEER
 APPROVED: [Signature] CITY MANAGER
 APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS

Acc. No. 5141
 PRINT MADE

16-10-7

DESIGNED BY E. B. S.
 DRAWN BY P. A. V.
 CHECKED BY T. P. X.
 TRACED BY W. F. H.
 CORRECT: [Signature]



NOTE: Lateral Gusseta $\frac{3}{8}$ unless noted. Lateral Conn. $1\frac{1}{2} - 4 \times 4 \times \frac{3}{8}$ unless noted.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPANS 5-7 & 10-12
DETAILS - PANELS 0-2

SCALE: 3/4" = 1'-0" AUGUST 1, 1936 ISSUE 1

SUBMITTED *Rosen* ENGINEER APPROVED *W. J. ...* ENGINEER
APPROVED *W. J. ...* DIRECTOR OF PUBLIC WORKS APPROVED *W. J. ...* CITY MANAGER

ISSUE No.	REVISION	DATE	Sig.	Sig.	

ACC. NO. 5143
PRINT MADE 10 10 0

Top flange of top chord shown on this side

Bottom flange of top chord shown on this side

Top Chord Lacing :-
2 1/2 x 3/8 Unless otherwise noted
Bottom Ps :- 2/8

SPLICE MATERIAL
1 P - 16 x 1/2 Top
2 Ps - 14 x 5/8 Sides
1 P - 16 x 3/8 Bottom

SPLICE MATERIAL
1 P - 16 x 1/2 Top
2 Ps - 14 x 5/8 Outside
2 Ps - 12 1/2 x 1/2 Inside
1 P - 16 x 3/8 Bottom

Bottom Chord Lacing
L7-L8 & L8-L9 - 5 x 3/8
Elsewhere :- 2 1/2 x 3/8
Bottom Ps :- 3/8

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGLESTON AVENUE
SPANS 5-7 & 10-12
DETAILS-PANELS 7-9

SCALE 3/4" = 1'-0" AUGUST 1, 1936 ISSUE 1

SUBMITTED *P. J. ...* APPROVED *J. H. ...*
SPEC. ENGINEER. ENGINEER OF HIGHWAYS
APPROVED *R. S. ...* APPROVED *R. S. ...*
DIRECTOR OF PUBLIC WORKS. CITY MANAGER.

ACC. NO. 5144

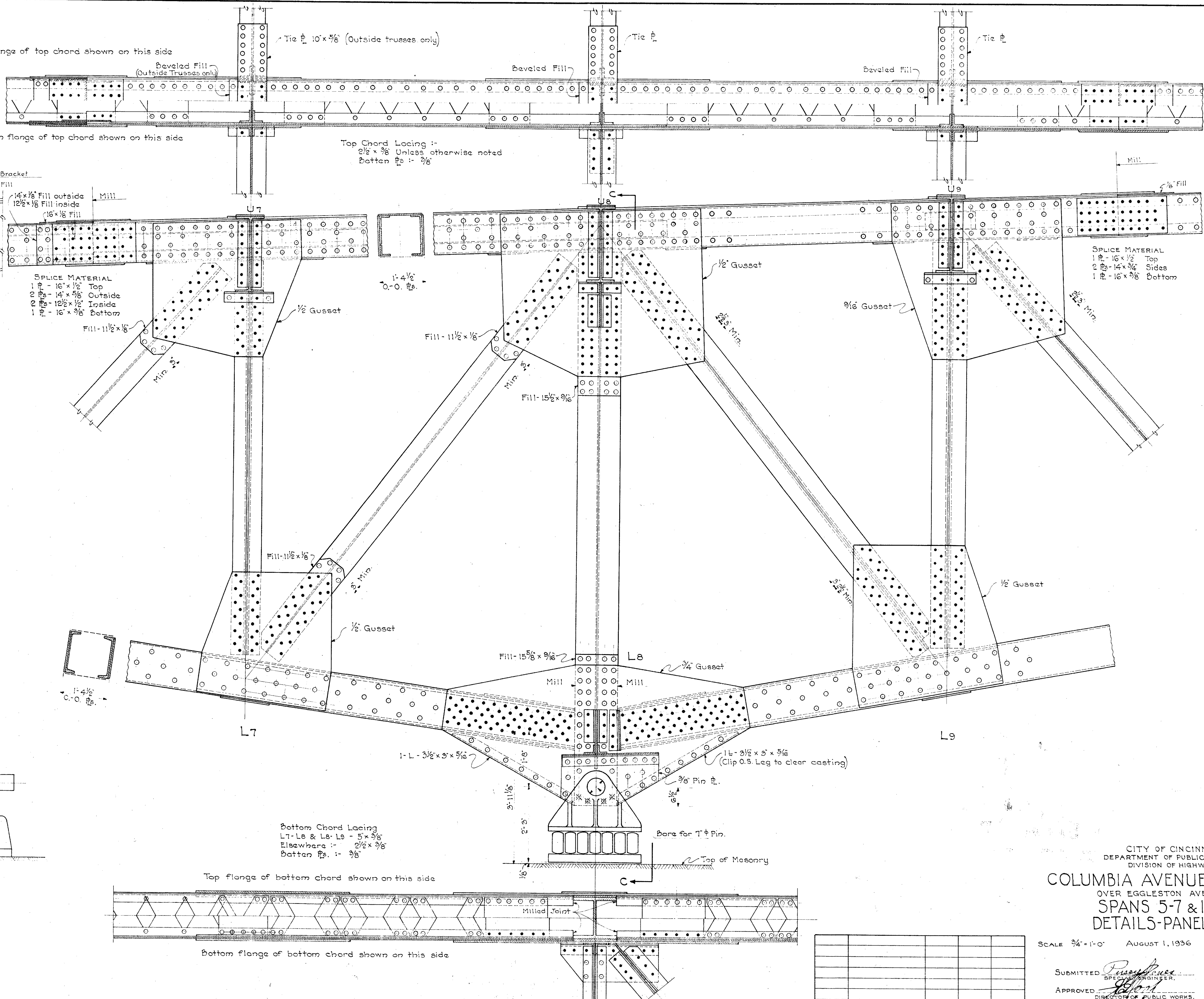
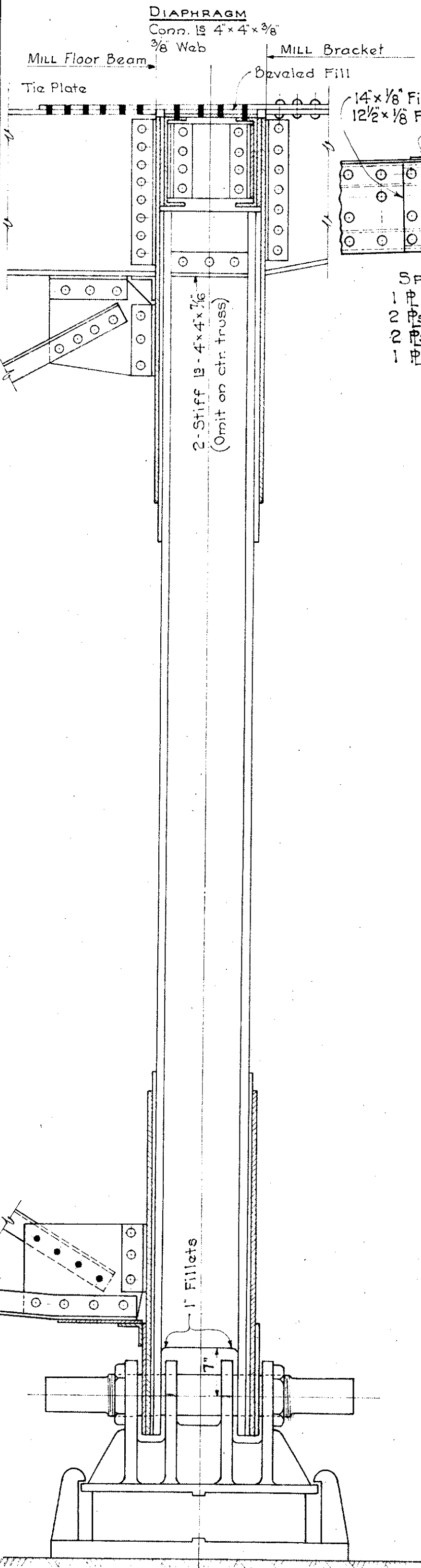
PRINT MADE

16-10-10

SECTION C-C

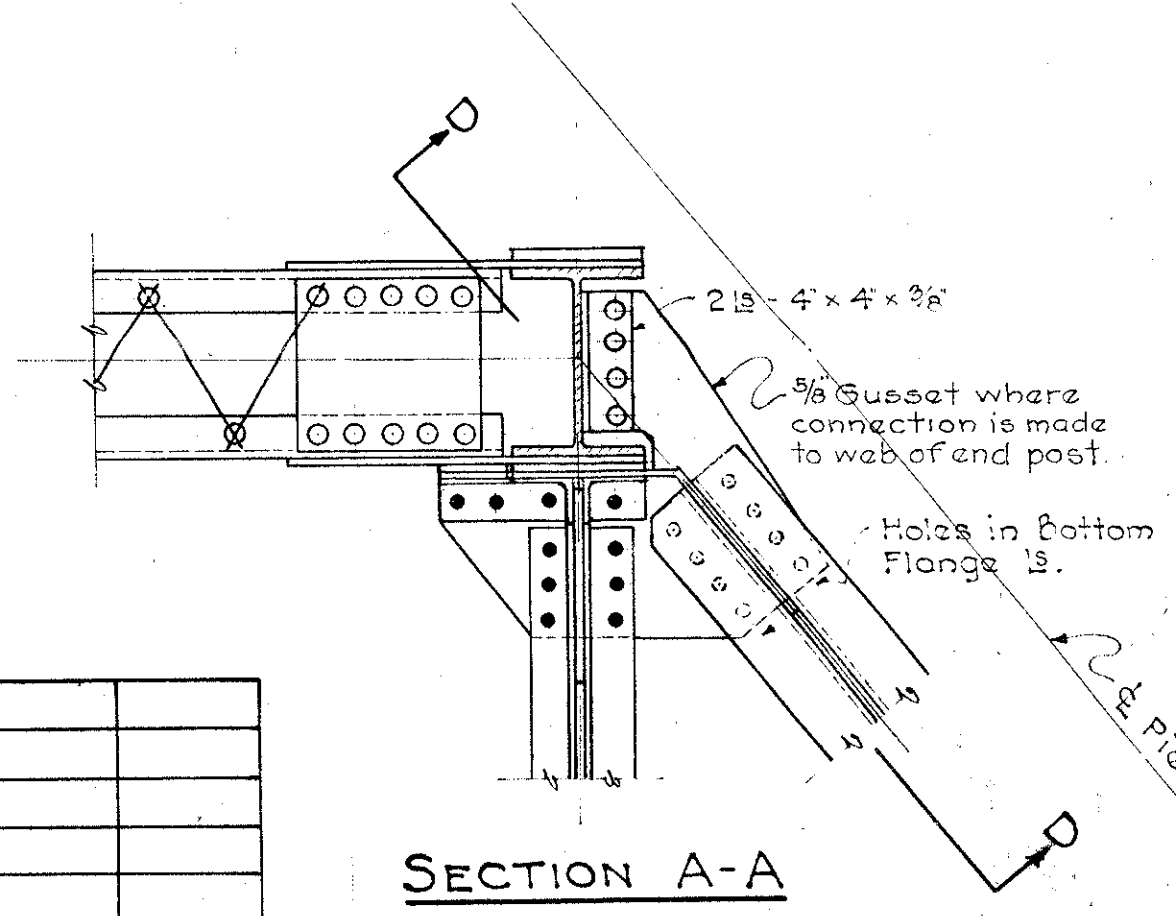
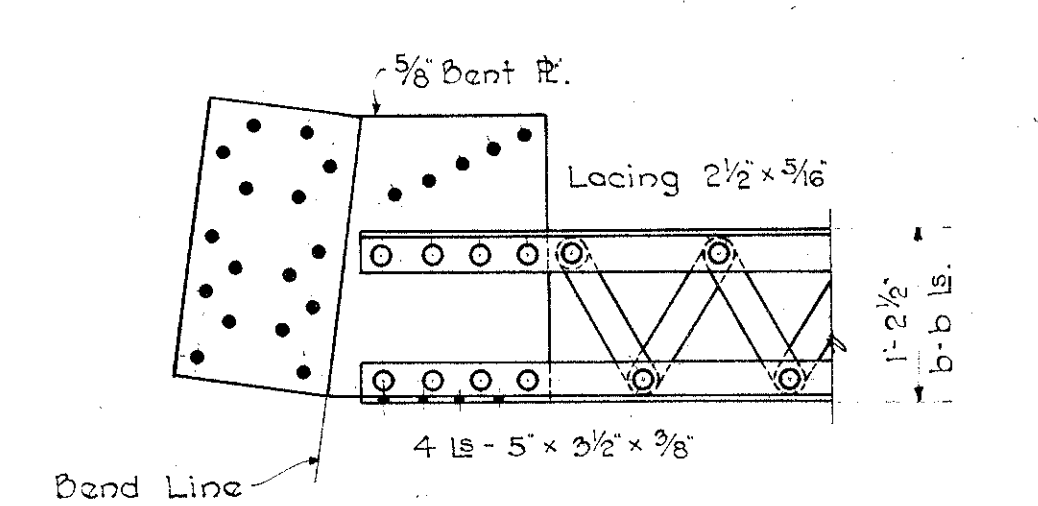
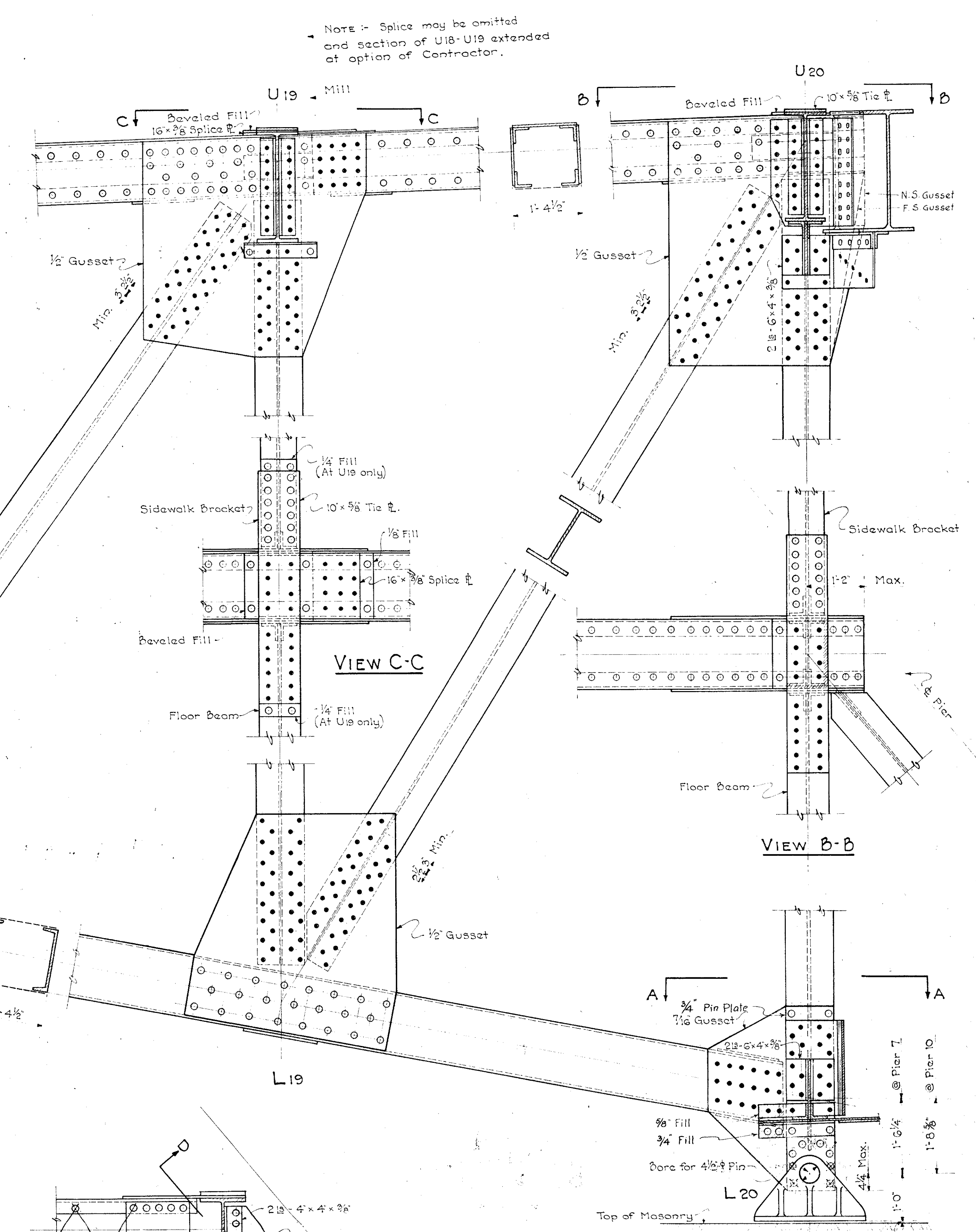
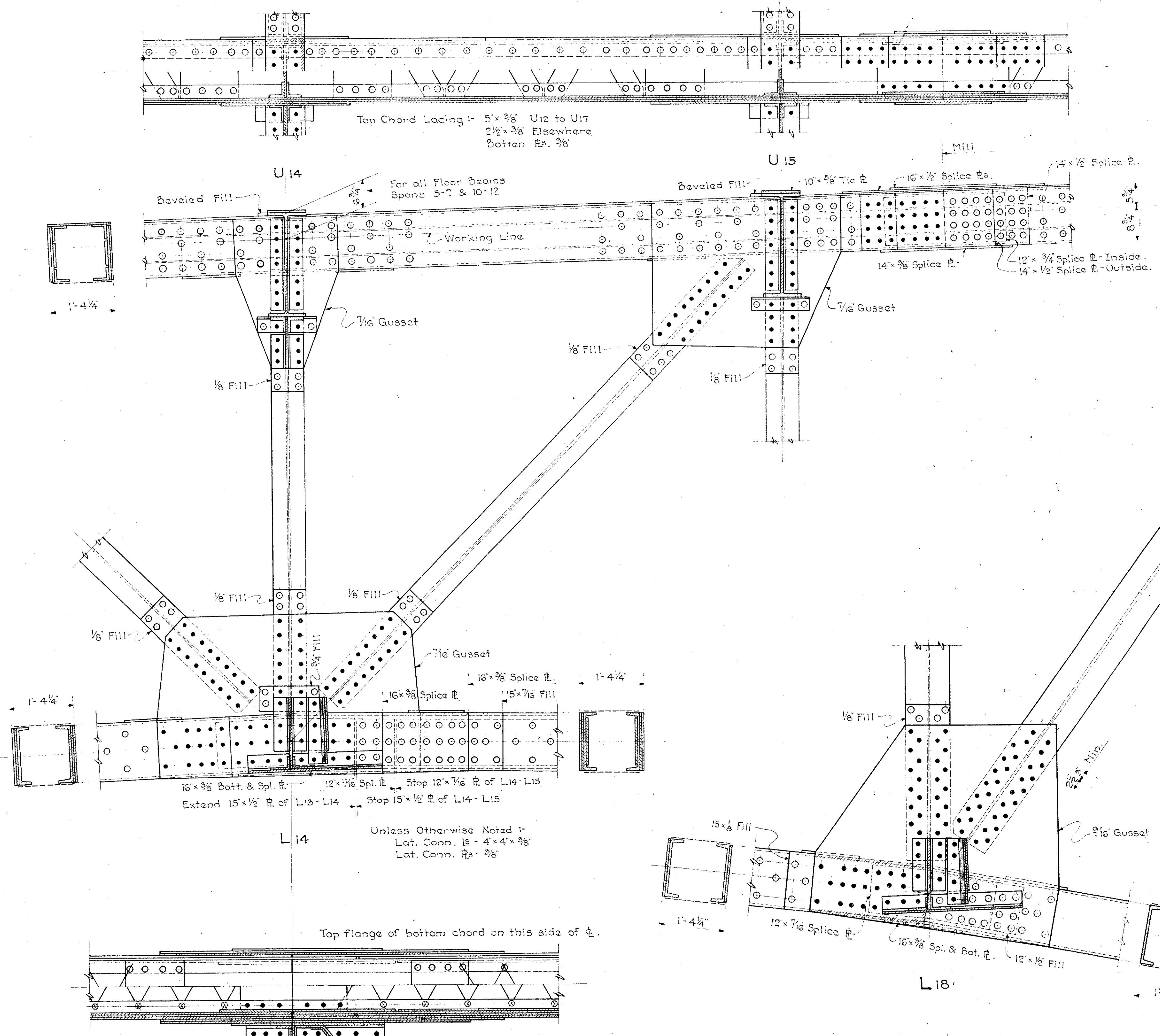
Top flange of bottom chord shown on this side

Bottom flange of bottom chord shown on this side



ISSUE NO.	REVISION	DATE	Sig.	Sig.

E.B.S.
P.A.V.
T.P.Y.
A.R.
W.R. Young



Issue No.	REVISION	DATE	Sig.	Sig.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPANS 5-7 & 10-12
DETAILS-PANELS 14-15 & 18-20

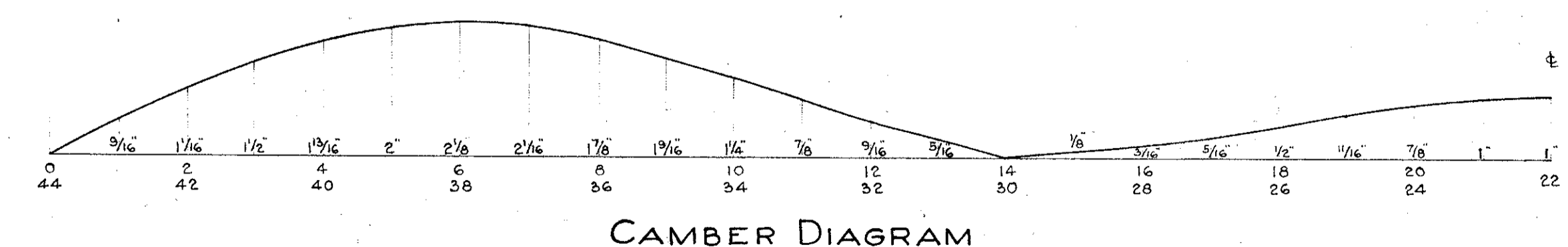
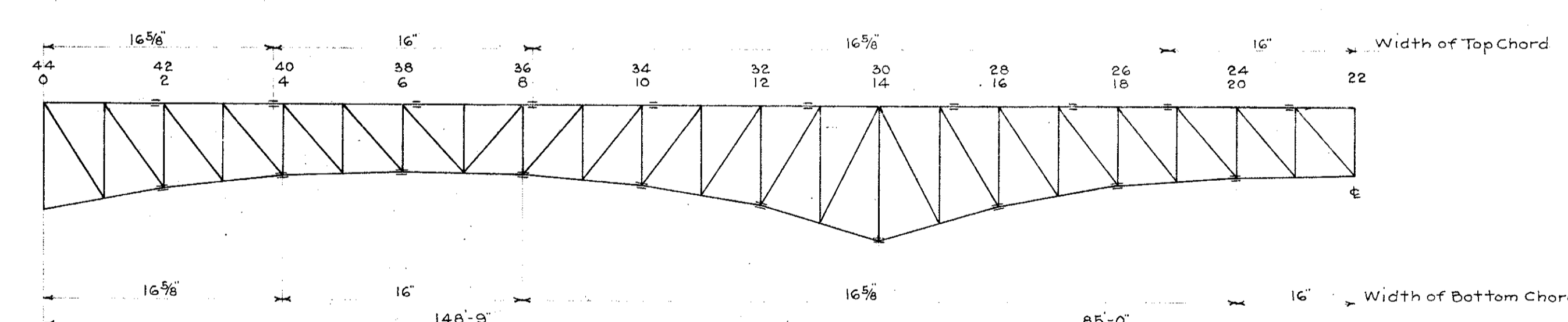
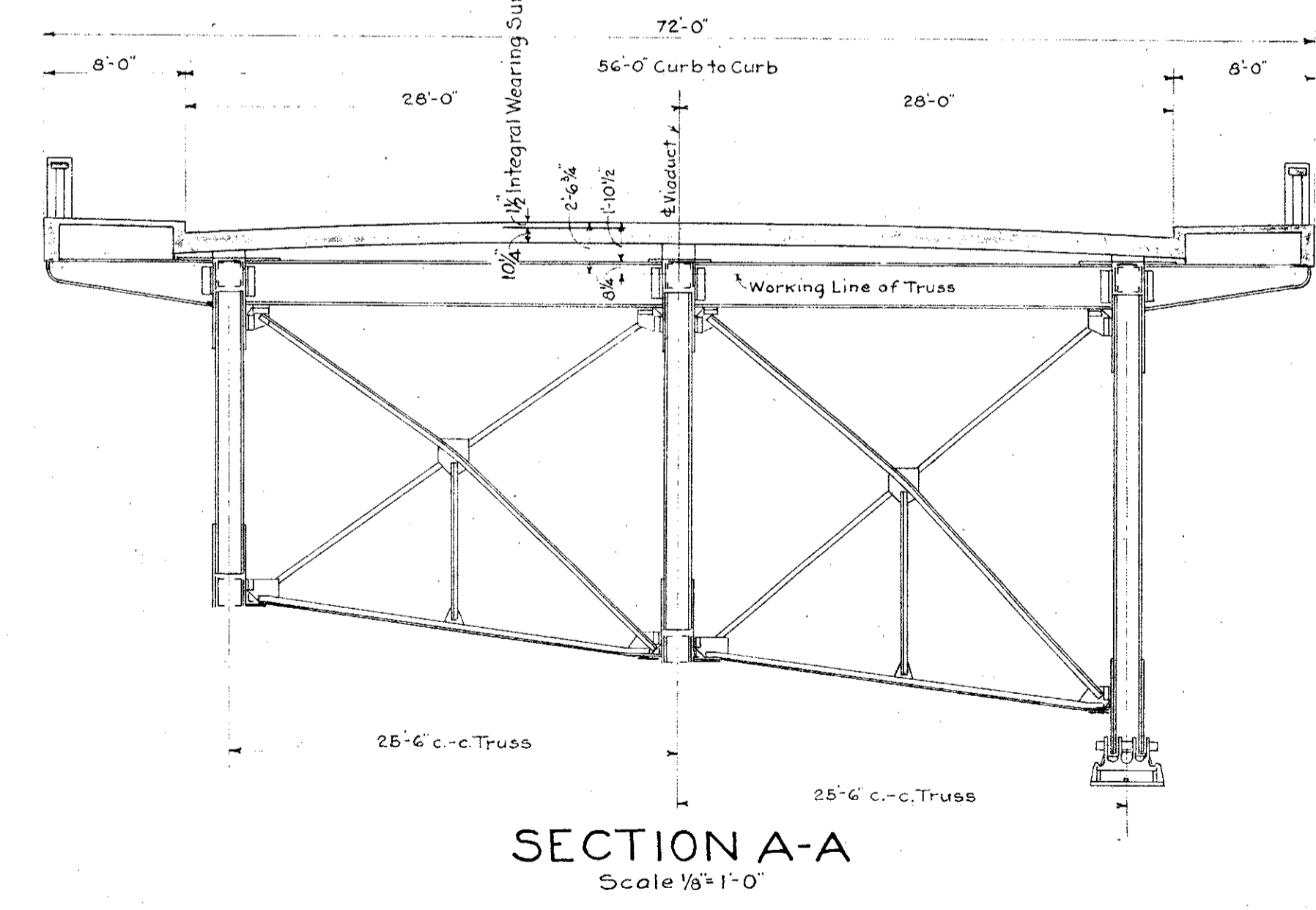
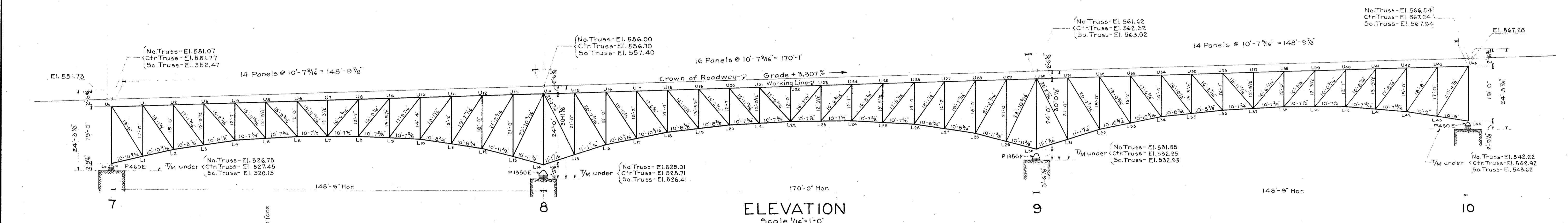
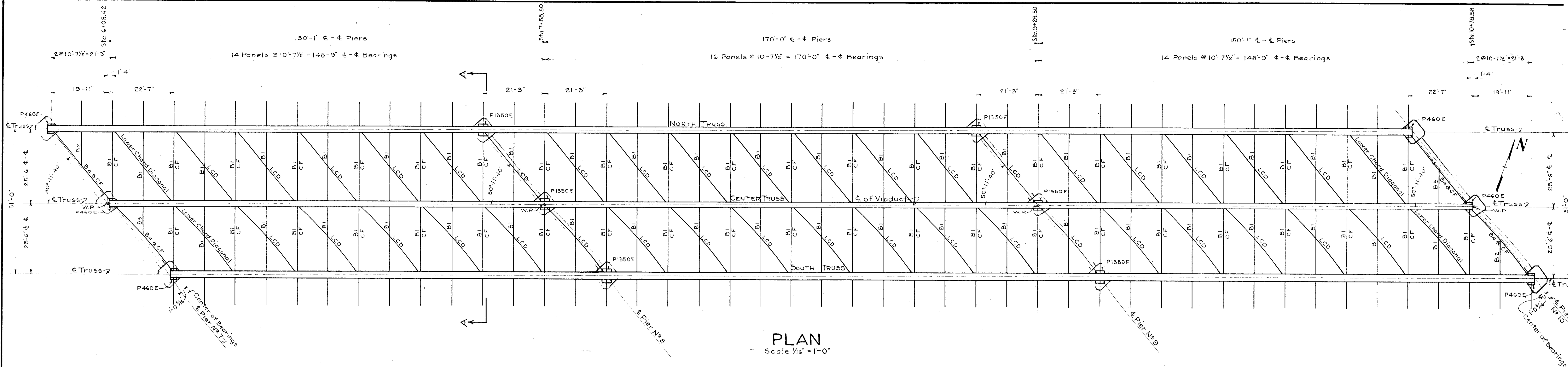
SCALE 3/4" = 1'-0" AUGUST 1, 1936. ISSUE: 1

SUBMITTED *[Signature]* APPROVED *[Signature]*
SPECIAL ENGINEER ENGINEER OF HIGHWAYS

APPROVED *[Signature]* APPROVED *[Signature]*
DIRECTOR OF PUBLIC WORKS CITY MANAGER

ACC. NO. 5145

PRINT MADE

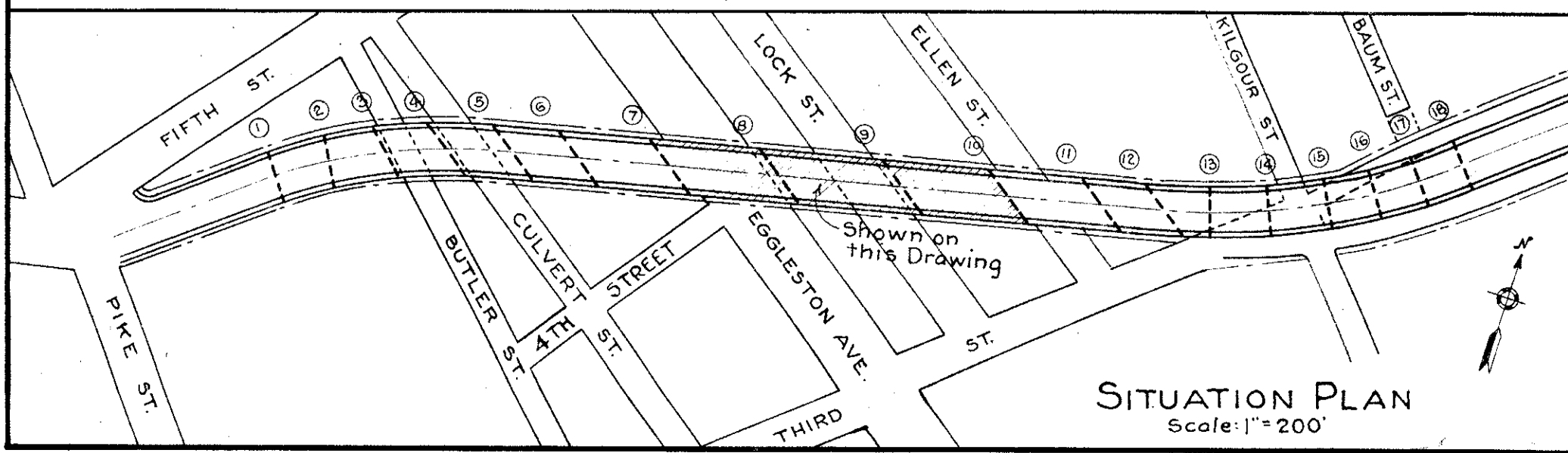


NOTE:
In order to counteract secondary stresses in the chords over the intermediate supports, the contractor shall arrange to shorten the diagonals U₁₄L₁₃, U₁₄L₁₅, U₃₀L₂₉ and U₃₀L₃₁ 1/8" each after all joints from 12 to 16 and from 26 to 32 are riveted, (except for rivets in one end of the diagonals to be drawn up) or the contractor may use such other approved method as will accomplish the same result.

ESTIMATED WEIGHT OF STEEL

ISSUE No.	REVISION	DATE	SIG.	SIG.

GENERAL NOTES:
SPECIFICATIONS: Design to be in accordance with the Ohio Department of Highways' Specifications for Design of Highway Structures dated September 1933.
MATERIAL, FABRICATION, ERECTION AND PAINTING to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.
DEAD LOAD: The assumed dead load contains an allowance of 25 lbs per sq. ft. of roadway for future wearing surface unit stresses.
LIVE LOAD: H-20-44 at 18000 lbs per sq. inch basic unit stresses.
RIVETS: 7/8"
ANCHOR BOLTS: Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.
BEARING AREAS: To be pressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.



CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

**COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE**

**SPAN 7-10
PLAN & ELEVATION**

SCALE: AS NOTED AUGUST 1, 1936. ISSUE: 1

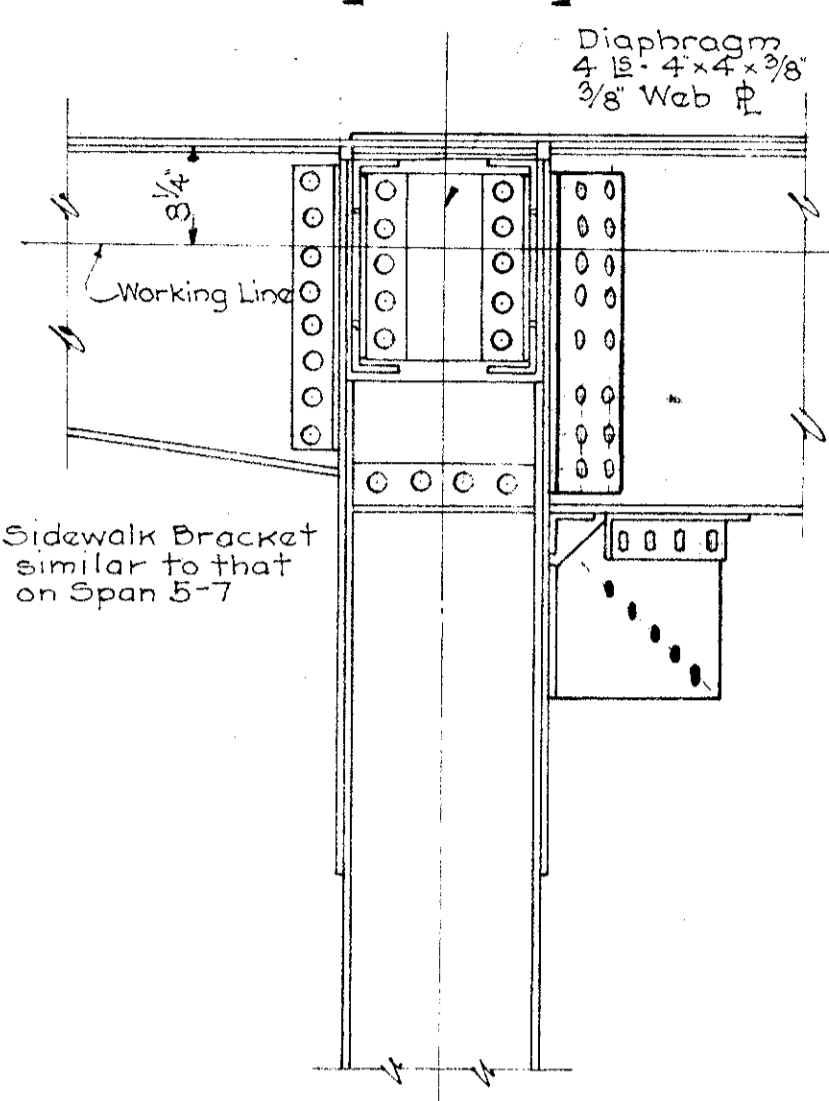
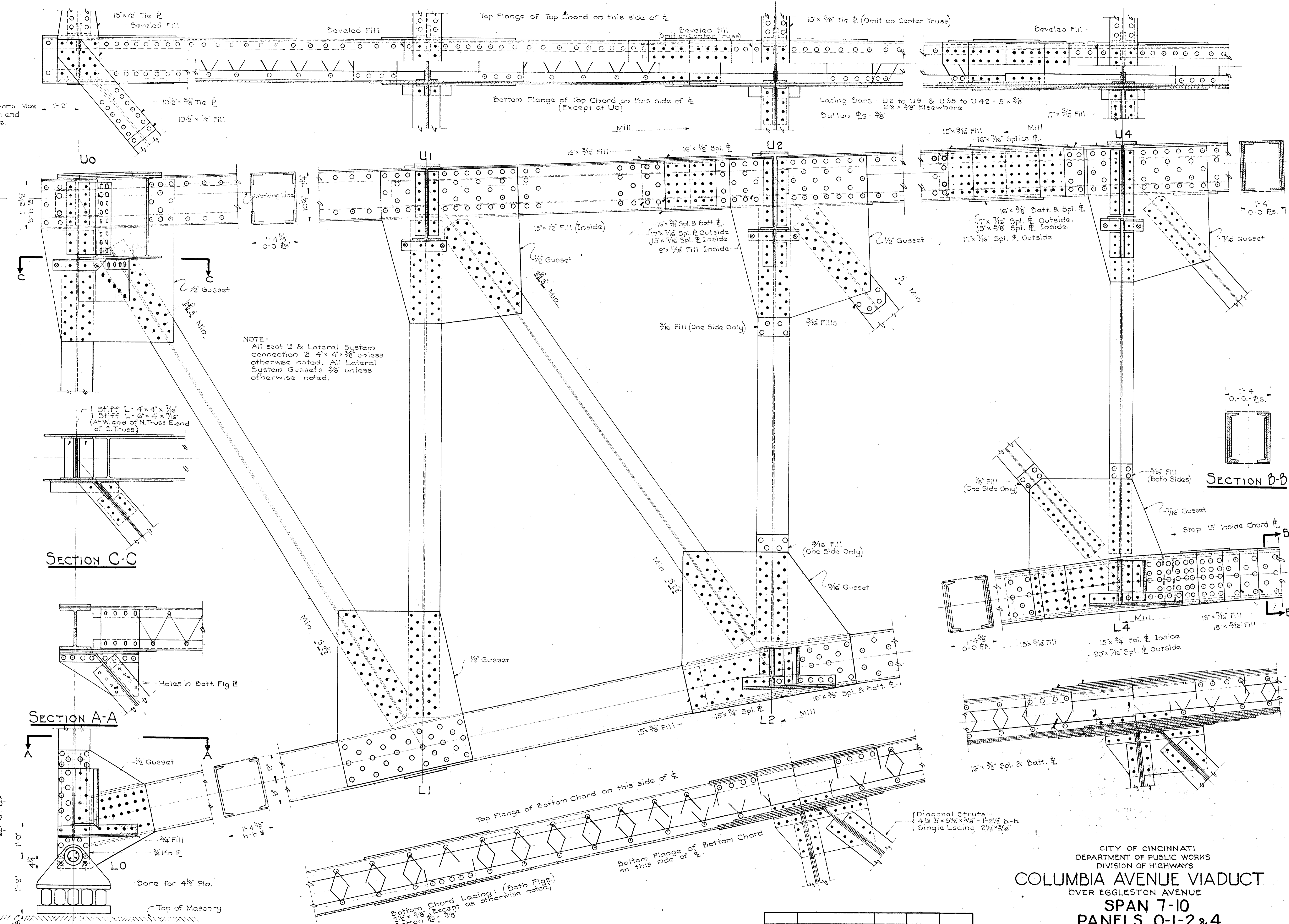
SUBMITTED: *[Signature]* SPECIAL ENGINEER
APPROVED: *[Signature]* DIRECTOR OF PUBLIC WORKS

APPROVED: *[Signature]* ENGINEER OF HIGHWAYS
APPROVED: *[Signature]* CITY MANAGER

Acc. No. 5146
PRINT MADE

E.B.S.
P.A.V.
T.P.Y.
W.F.H.

NOTE:
The inside truss ends of the floor beams Max
need not be milled if the clearance from end
of beam to backs of conn. is kept close.



SECTION C-C

SECTION A-A

SECTION B-B

END VIEW

DESIGNED BY: E.B.S.
DRAWN BY: E.B.S.
CHECKED BY: TRACY A.R.
DATE: 1-1-1936

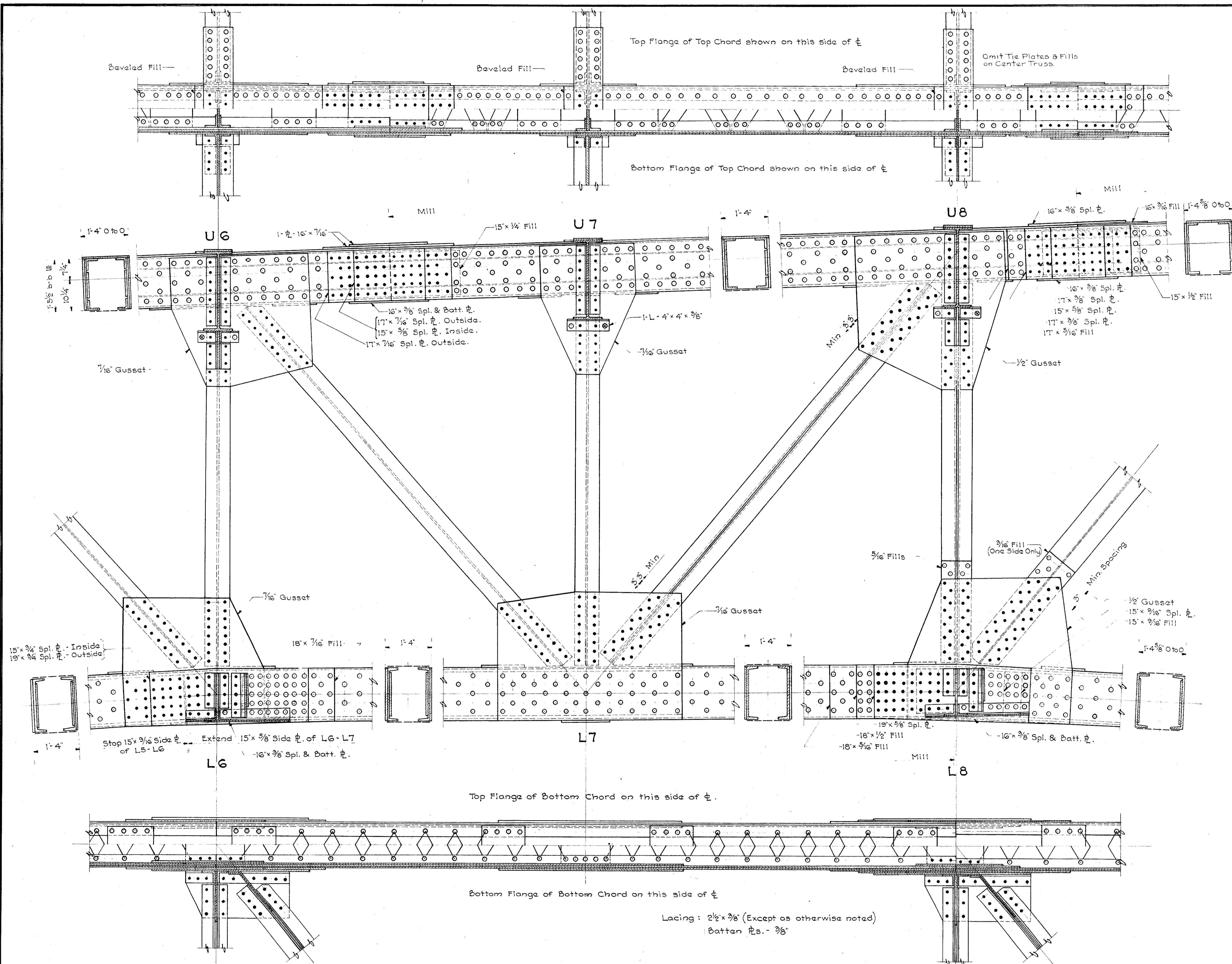
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPAN 7-10
PANELS 0-1-2&4

SCALE: 3/4" = 1'-0" AUGUST 1, 1936 ISSUE: 1
SUBMITTED: [Signature] SPECIAL ENGINEER
APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS
APPROVED: [Signature] ENGINEER OF HIGHWAYS
APPROVED: [Signature] CITY MANAGER

ISSUE NO.	REVISION	DATE	SIG.	SIG.

ACC. NO. 5148

16-10-14



Top Flange of Top Chord shown on this side of ϵ

Omit Tie Plates & Fills on Center Truss.

Bottom Flange of Top Chord shown on this side of ϵ

Top Flange of Bottom Chord on this side of ϵ

Bottom Flange of Bottom Chord on this side of ϵ

Lacing: $2\frac{1}{2} \times \frac{3}{8}$ (Except as otherwise noted)
Batten Pls. - $\frac{3}{8}$ "

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPAN 7-10
DETAILS PANELS 6-7 & 8

SCALE: $\frac{3}{4}'' = 1'-0''$ AUGUST 1, 1936. ISSUE NO. 1

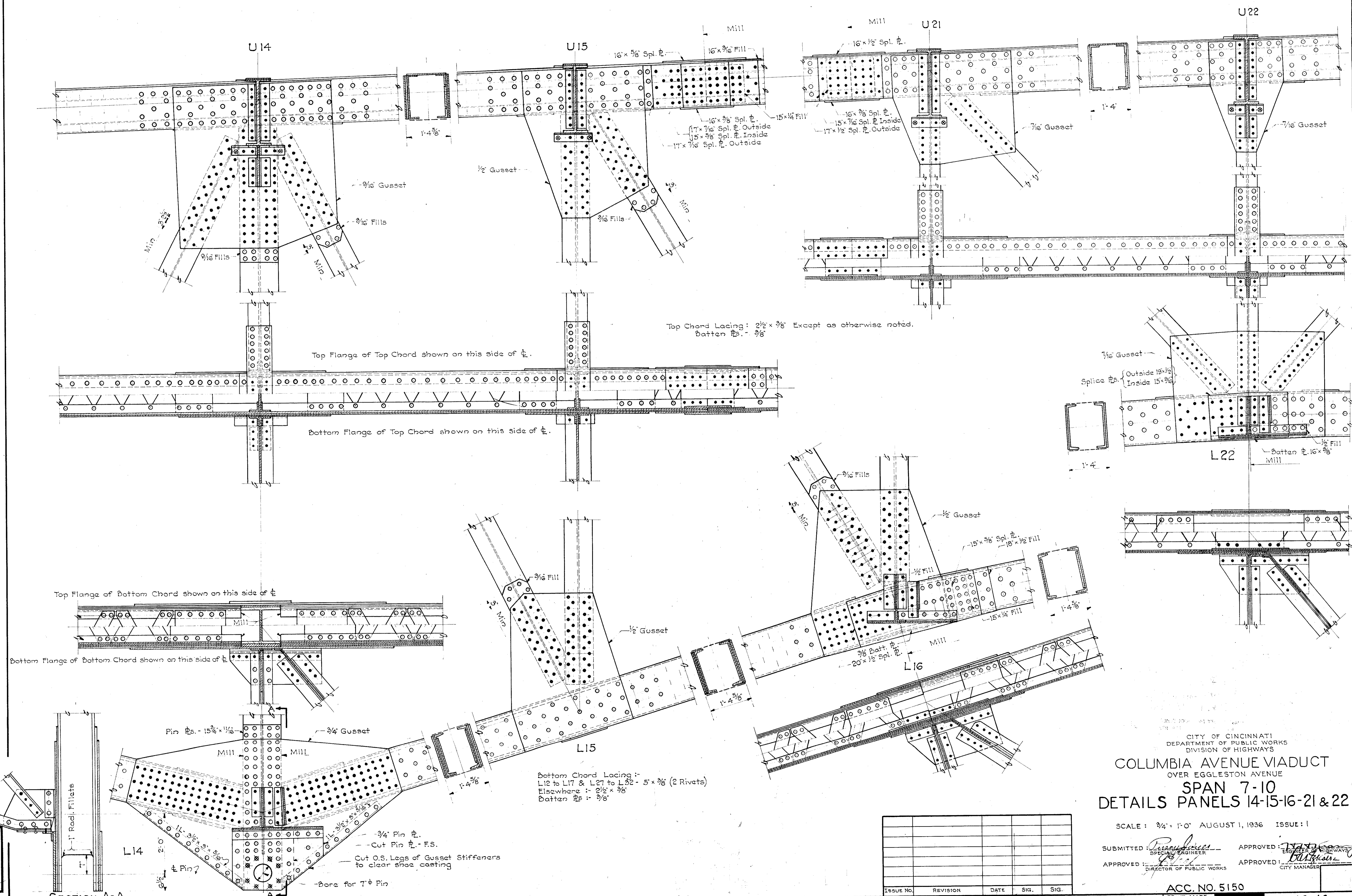
SUBMITTED: *Russell* APPROVED: *W. J. ...*
SPECIAL ENGINEER ENGINEER OF HIGHWAYS
APPROVED: *...* APPROVED: *...*
DIRECTOR OF PUBLIC WORKS CITY MANAGER

ISSUE NO.	REVISION	DATE	SIG.	SIG.

ACC NO. 5149
PRINT MADE

16-10-15

DESIGNED: E.B.S.
DRAWN: P.A.V.
CHECKED: T.R.Y.
TRACED: A.R.
DATE: 8/1/36
W. J. ...



CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPAN 7-10
DETAILS PANELS 14-15-16-21 & 22

SCALE: 3/4" = 1'-0" AUGUST 1, 1936 ISSUE: 1

SUBMITTED: *Raymond*
SPECIAL ENGINEER

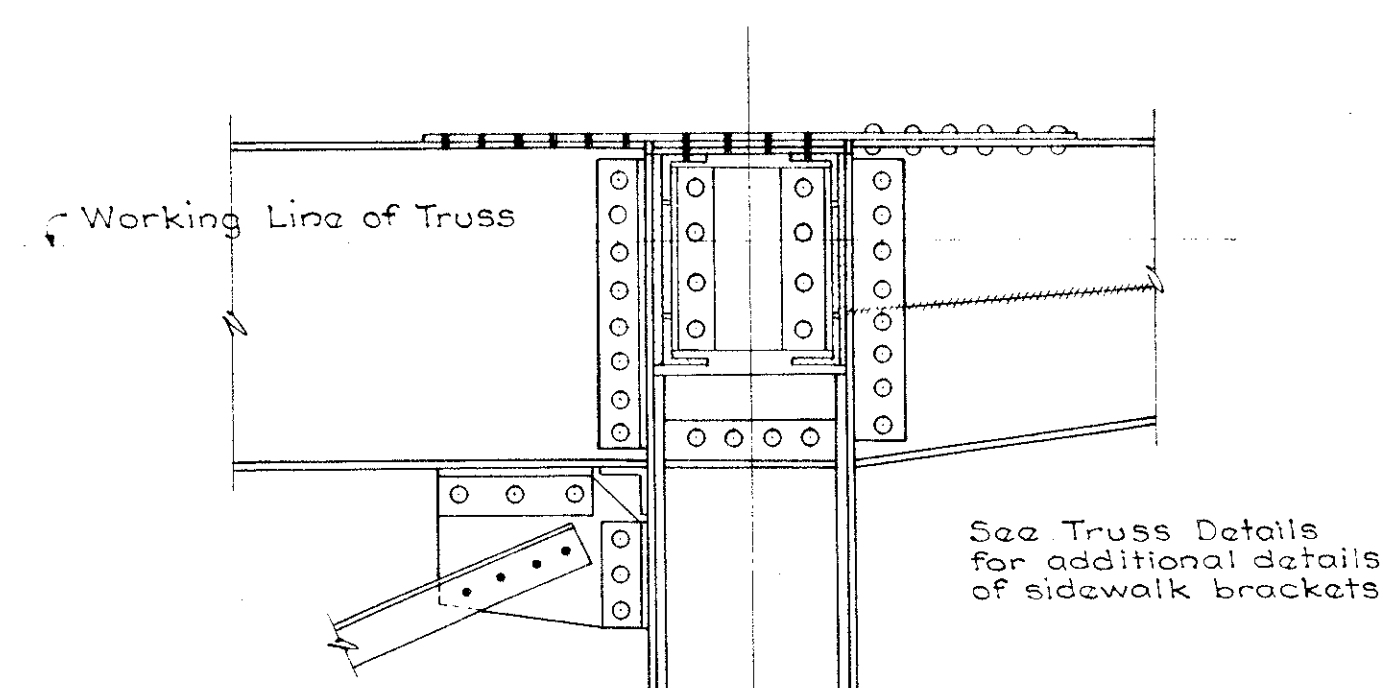
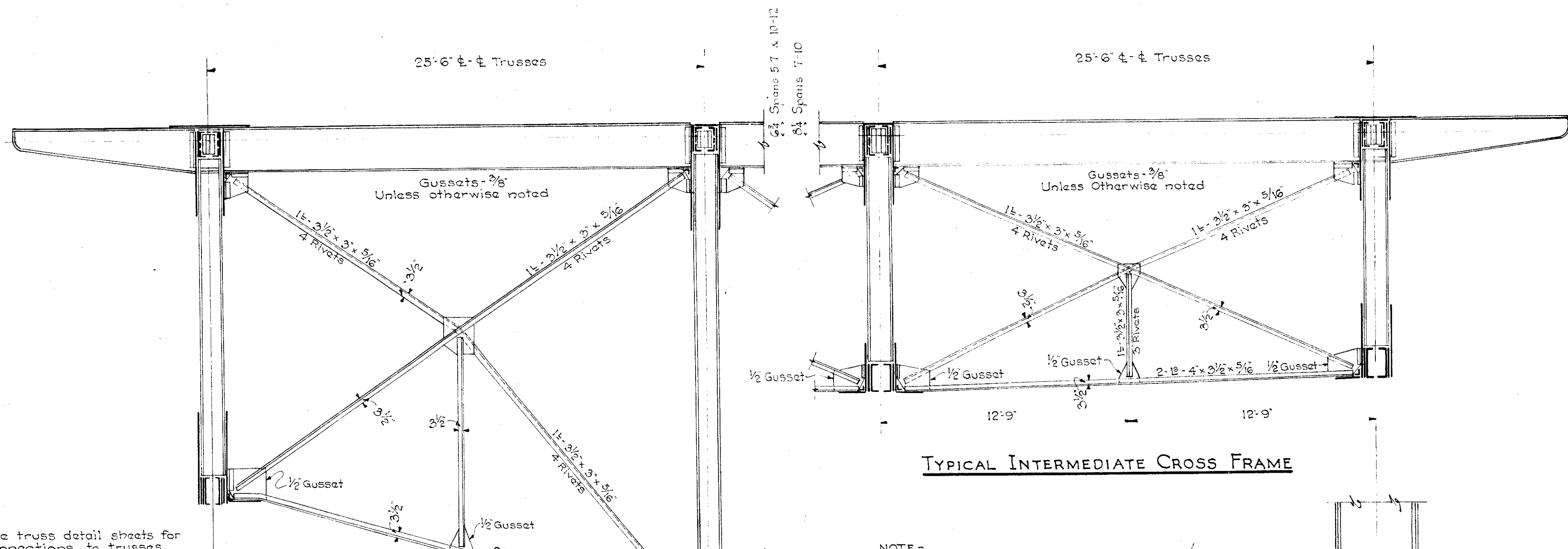
APPROVED: *J. H. ...*
ENGINEER IN CHARGE

APPROVED: *...*
DIRECTOR OF PUBLIC WORKS

APPROVED: *...*
CITY MANAGER

ISSUE NO.	REVISION	DATE	SIG.	SIG.

ACC. NO. 5150
PRINT MADE

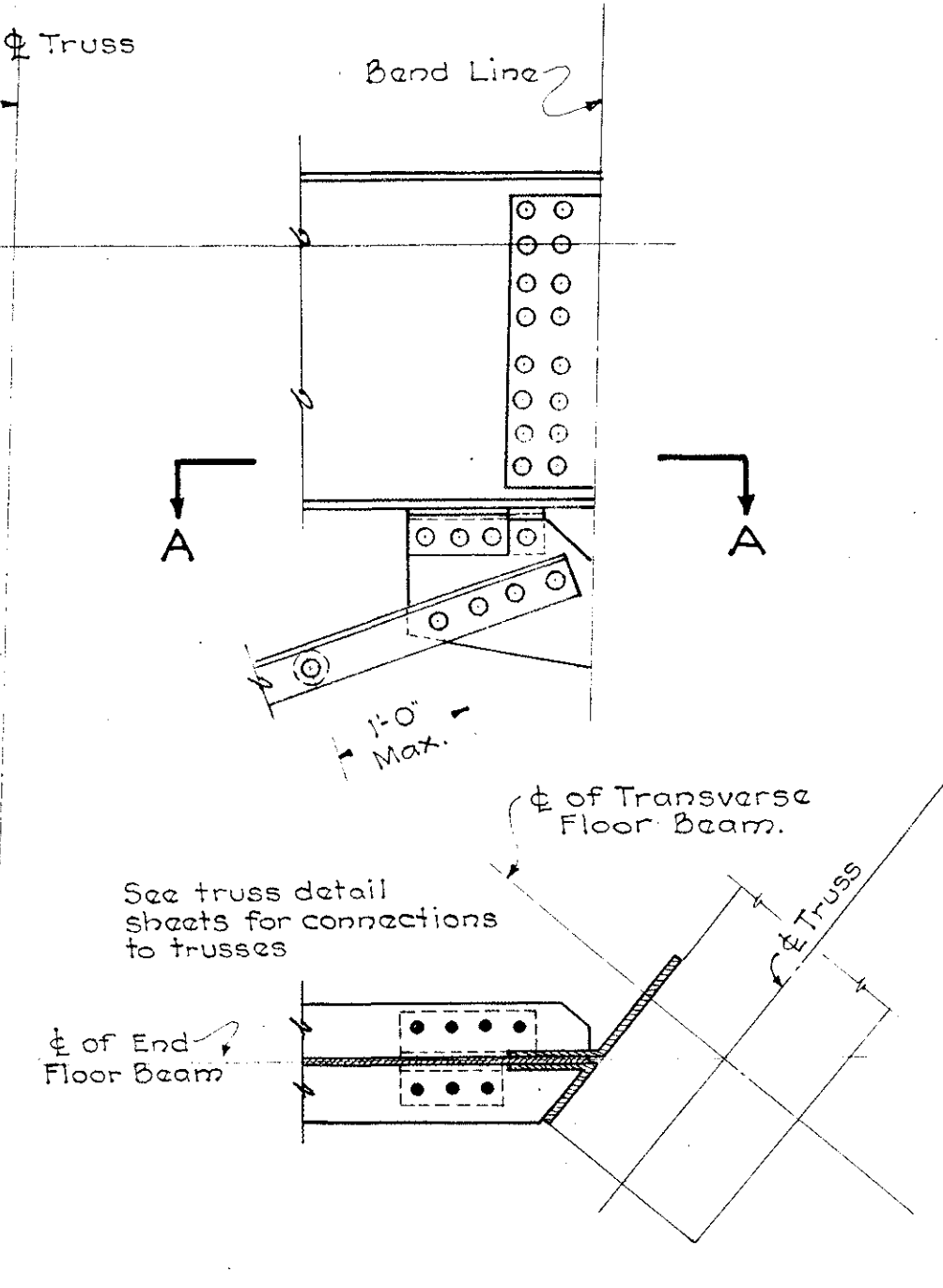
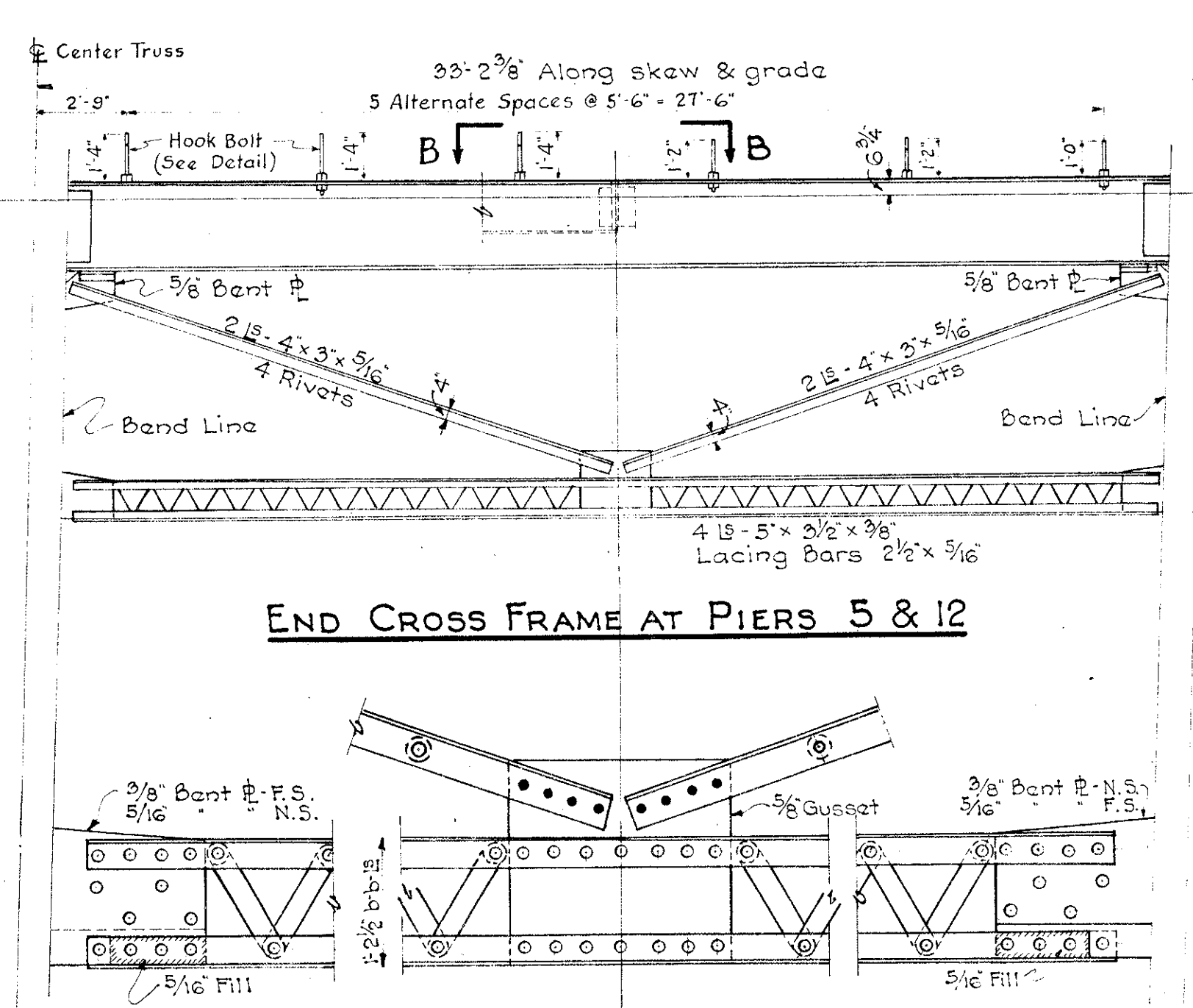
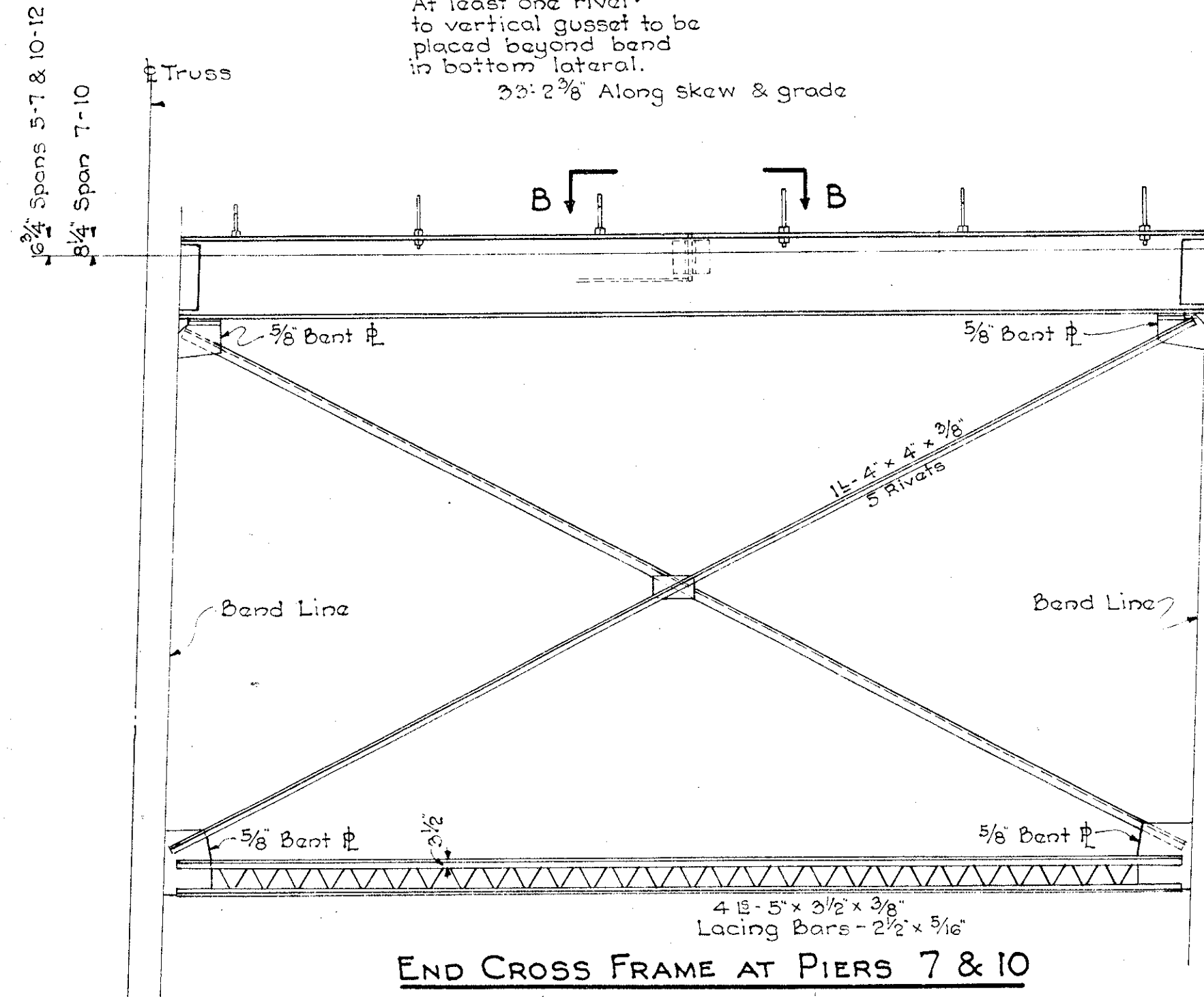
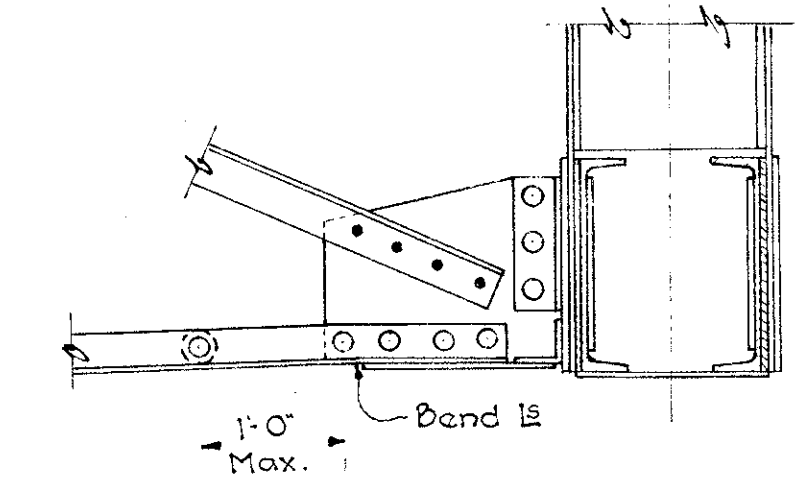
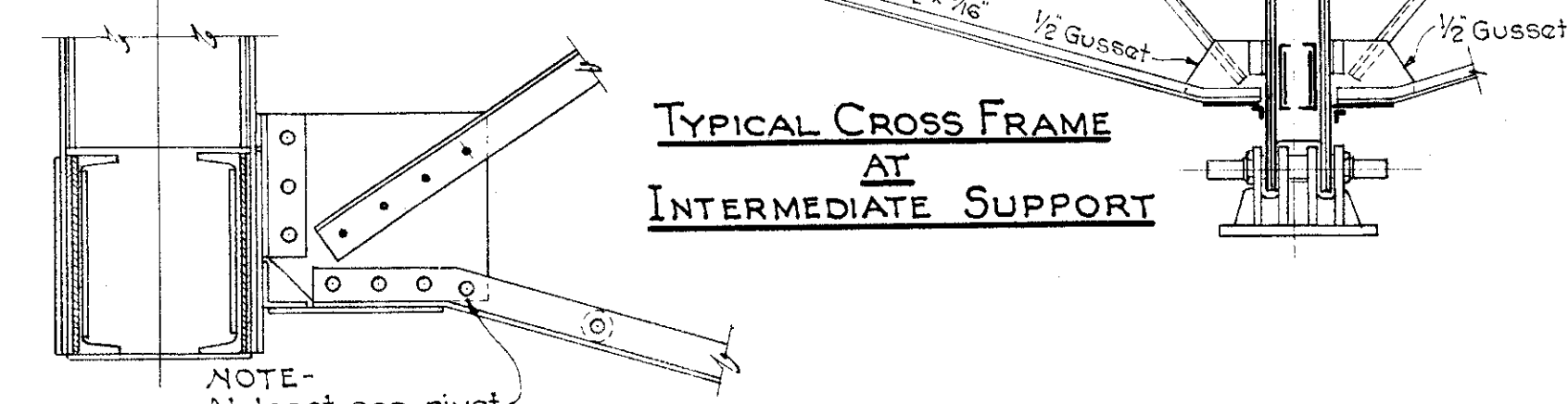


TYPICAL INTERMEDIATE CROSS FRAME

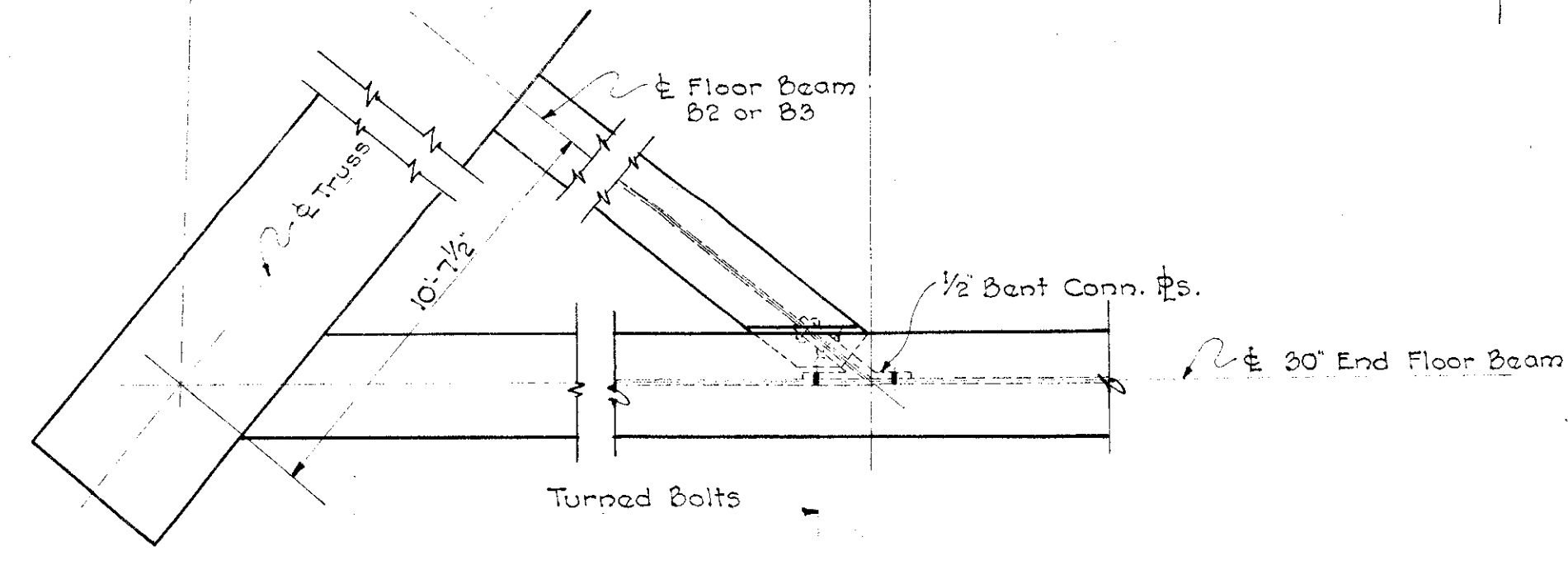
NOTE - Sections of cross frame members as shown here, apply to all intermediate cross frames.

DETAIL OF HOOK BOLT
6 Req'd. for EACH SKEW FLOOR BEAM

See truss detail sheets for connections to trusses



NOTE - All cross frame diagonals consisting of a single angle shall be detailed 1/8" short to provide initial tension.



ISSUE NO.	REVISION	DATE	SIG.	SIG.

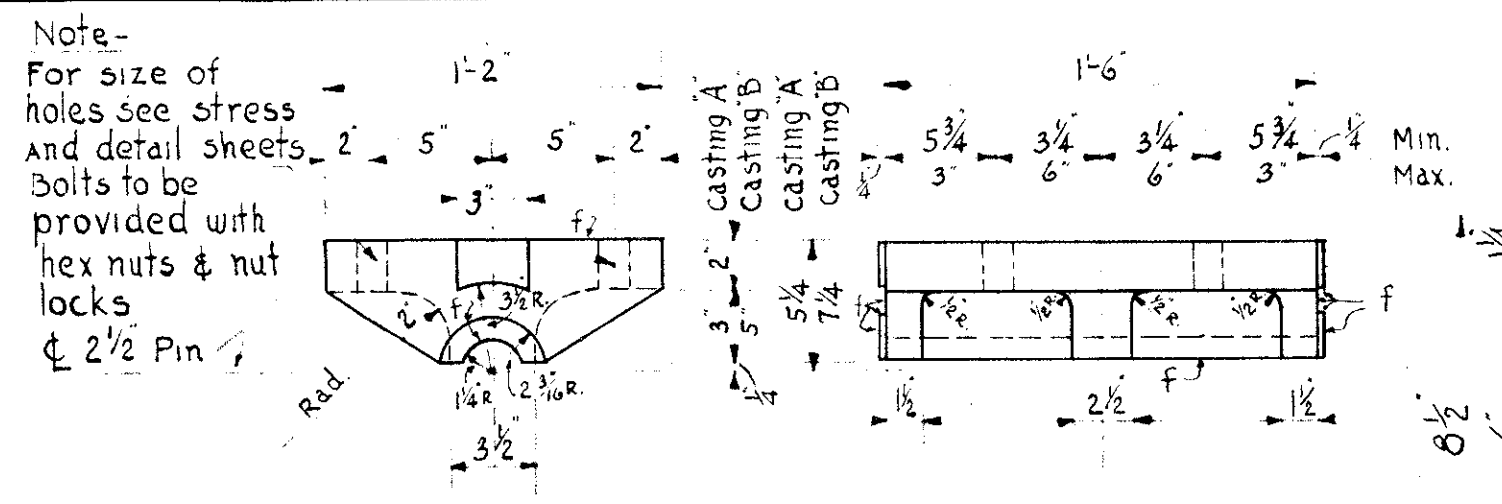
DESIGNED: E.B.S.
DRAWN: E.B.S.
CHECKED: T.P.Y.
TRACED: A.R.
CORRECT: *[Signature]*

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPANS 5-6 TO 11-12
DETAILS OF BRACING

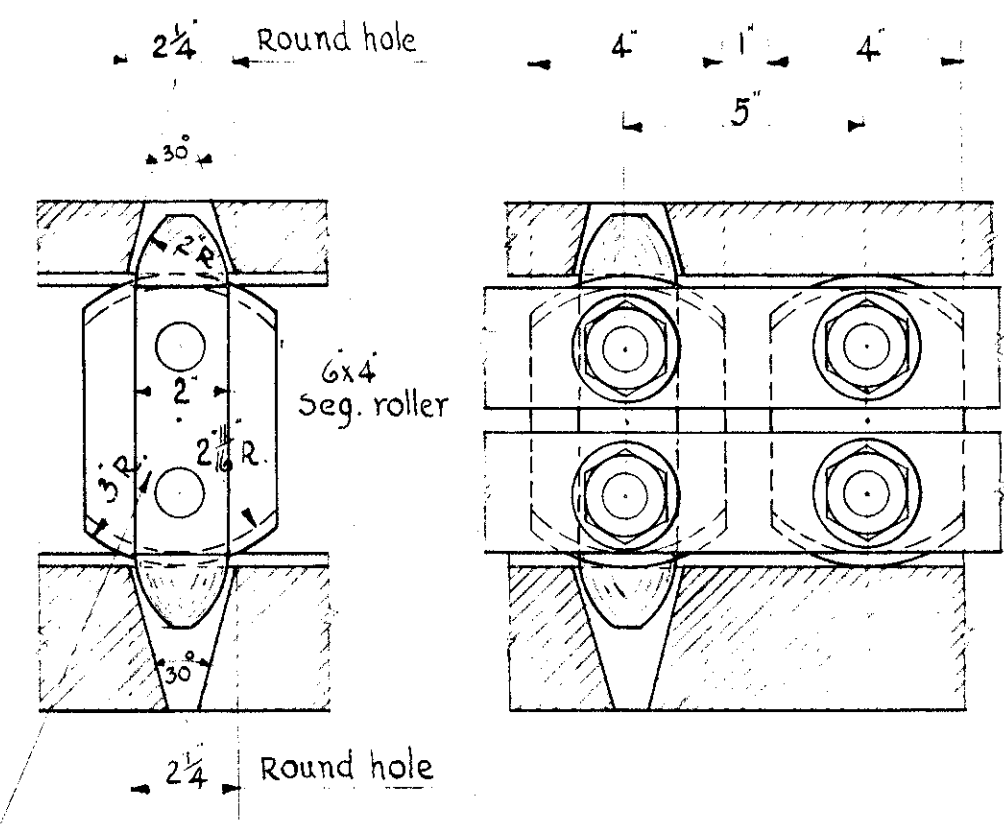
SCALE: 1/4" & 3/4" = 1'-0" AUGUST 1, 1936 ISSUE 1

SUBMITTED: *[Signature]* ENGINEER OF HIGHWAYS
APPROVED: *[Signature]* CITY MANAGER
APPROVED: *[Signature]* DIRECTOR OF PUBLIC WORKS

ACC. NO. 5151



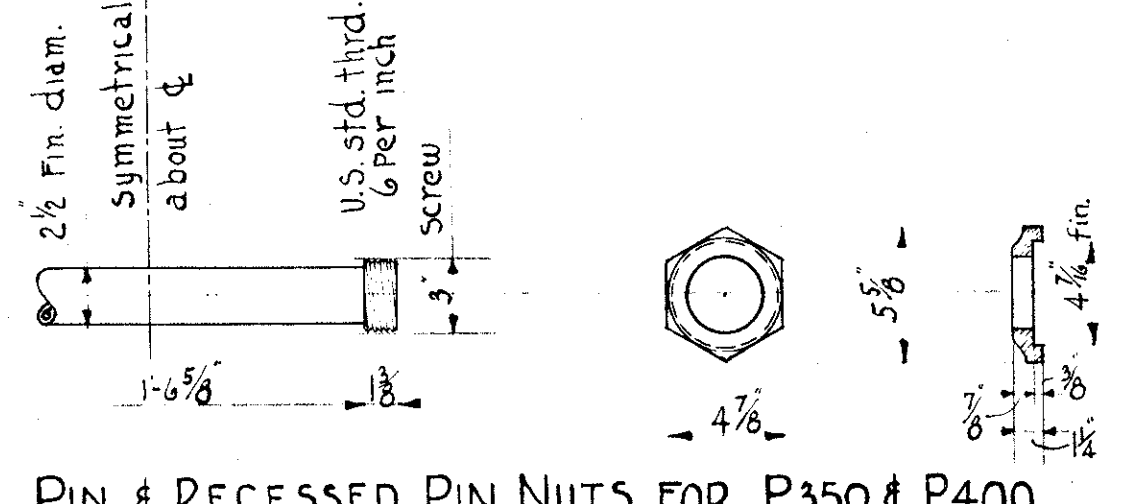
TOP CASTINGS A & B FOR P350 & P400



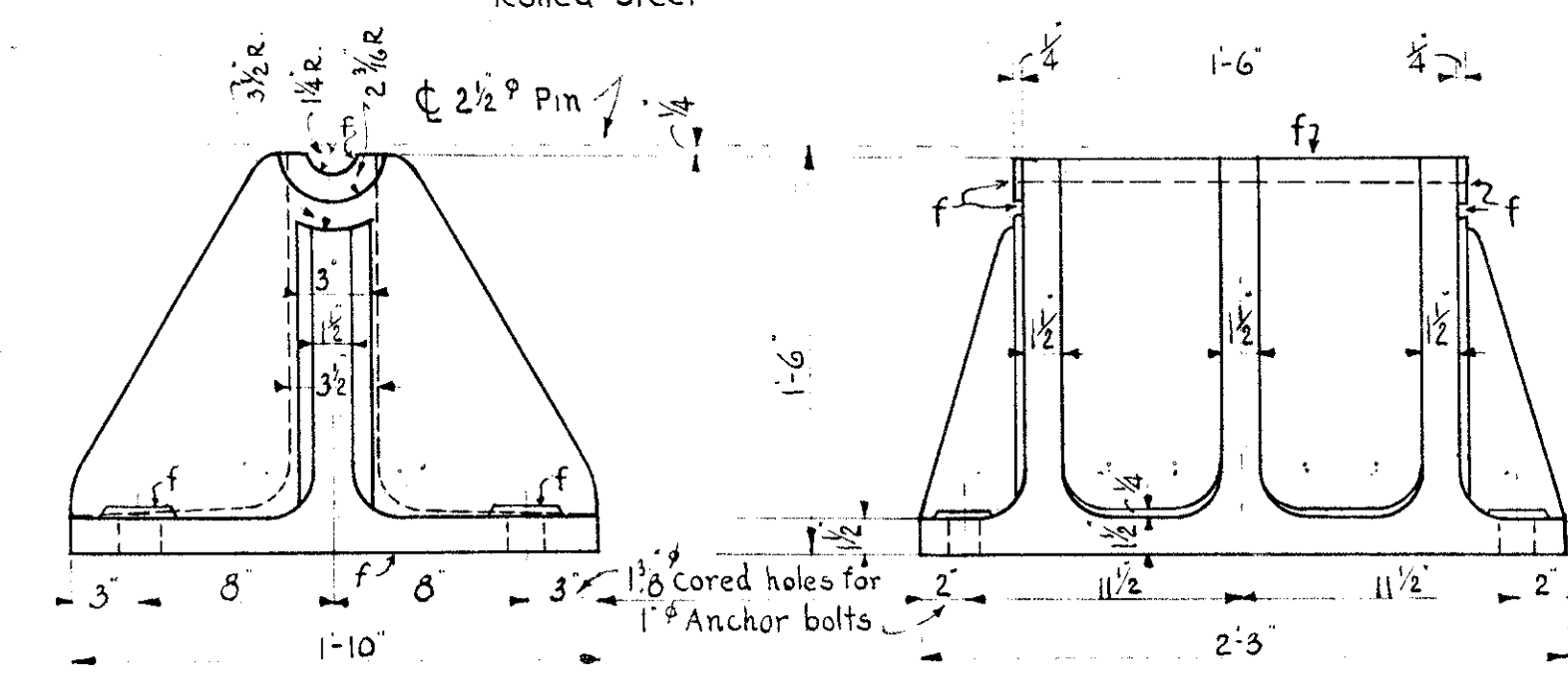
DETAILS OF ROLLER NESTS
Scale - 3'-1'-0"

PEDESTAL	ROLLERS		
	Diam.	Length	Ns
P 350 E	6"	1'-11"	5
P 400 E	6"	2'-2"	5
P 415 E	6"	2'-2"	5
P 460 E	6"	2'-4"	5
P 1000 E	8"	2'-9"	7
P 1350 E	8"	3'-1"	8

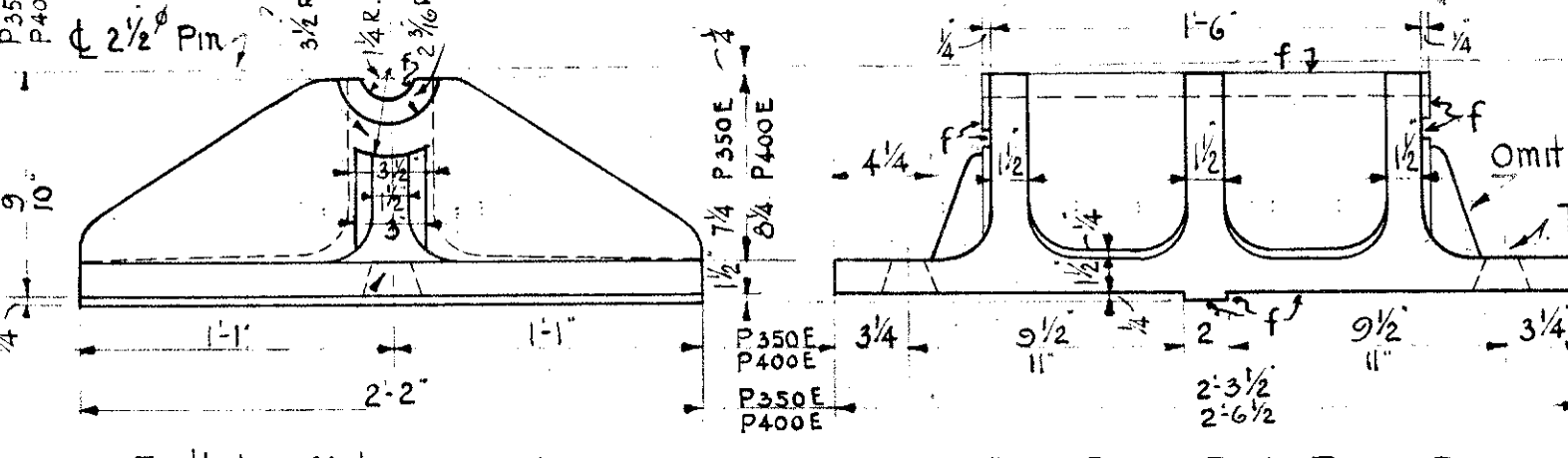
NOTES
Material - Rolled steel.
Side bars 2 1/2 x 3/4" - Holes 1 1/2" for 1/2" shoulder on 1" diameter Stud bolt. Washer 2 1/2 x 1/8".
Tooth bar 2 x 2 x 8 1/2" & 10 1/2" lg., finished all over, ends turned to a spherical cone shape.
Slots for tooth bar finished to a conical shape. Rollers finished except sides, which must be straight & true.
Center roller only must have tooth bar at each end.



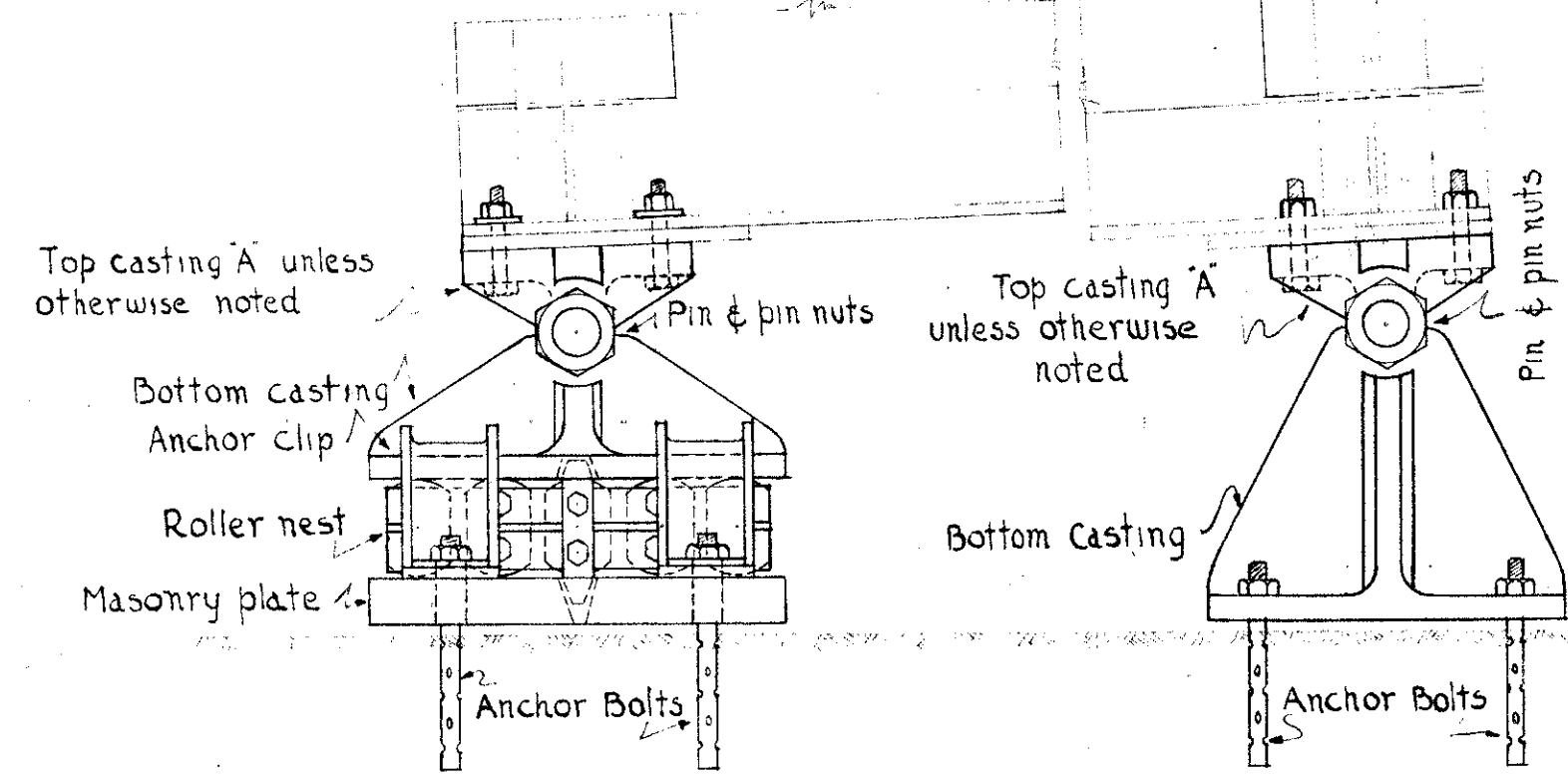
PIN & RECESSED PIN NUTS FOR P350 & P400
Rolled steel



BOTTOM CASTING FOR P350F



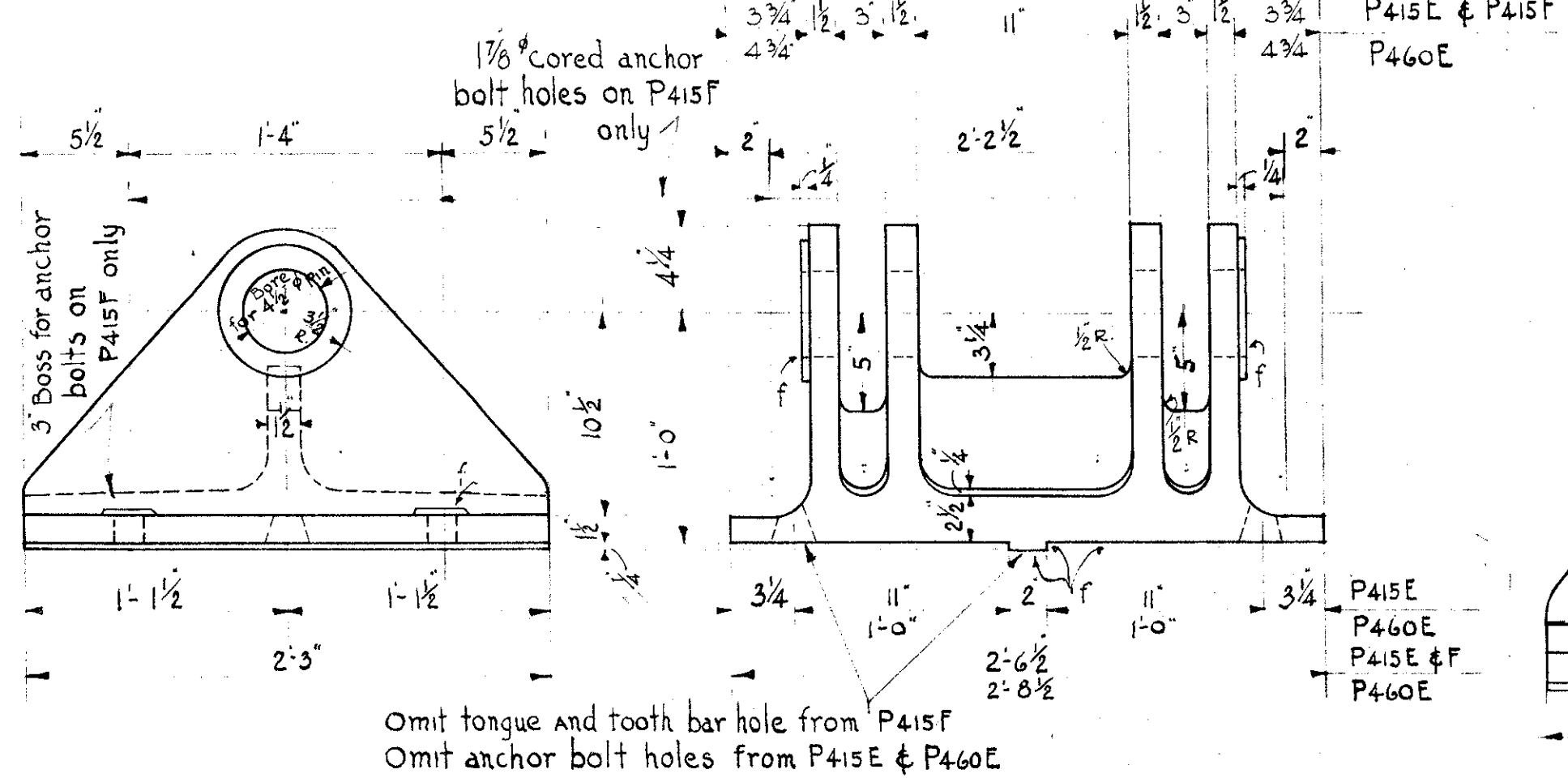
BOTTOM CASTING FOR P350E & P400E



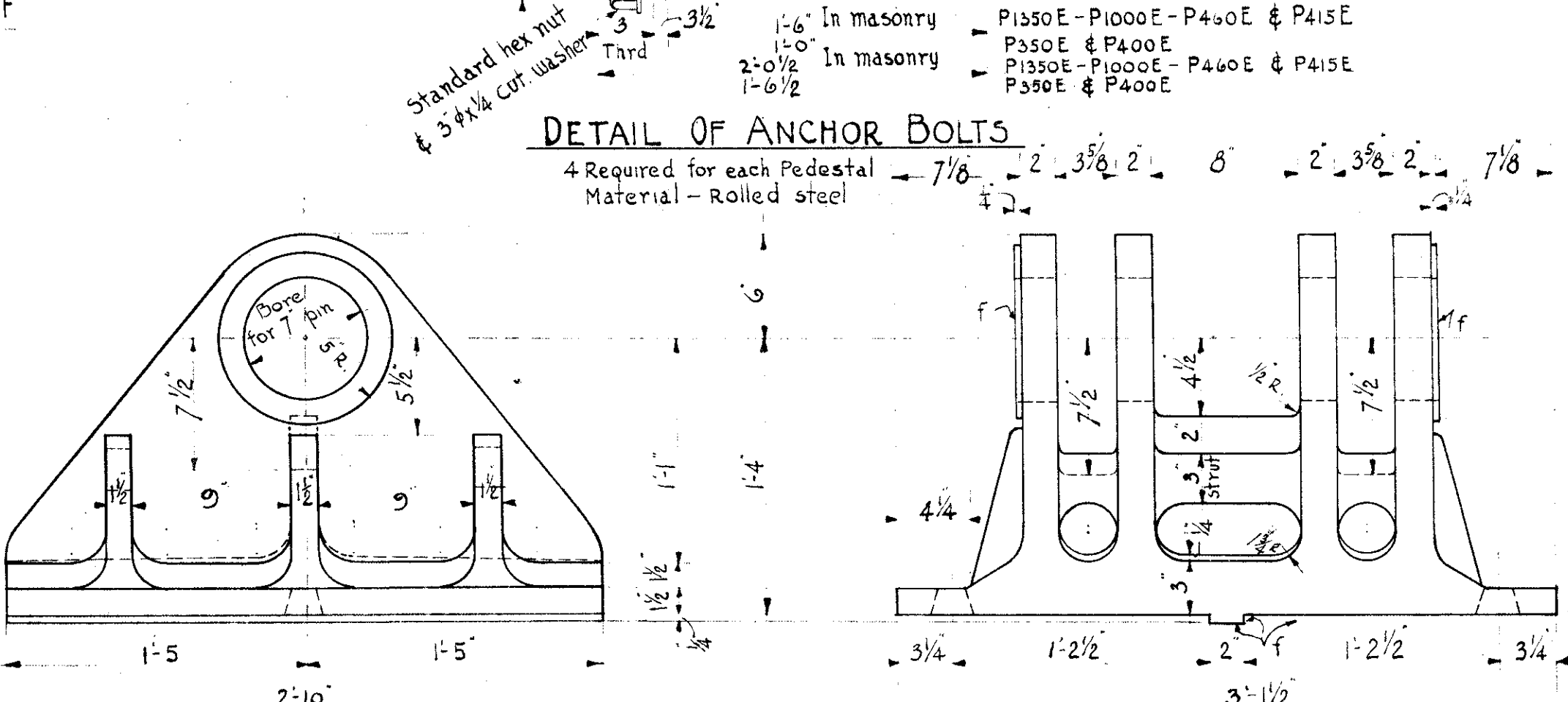
P350E & P400E ASSEMBLED

P350F ASSEMBLED

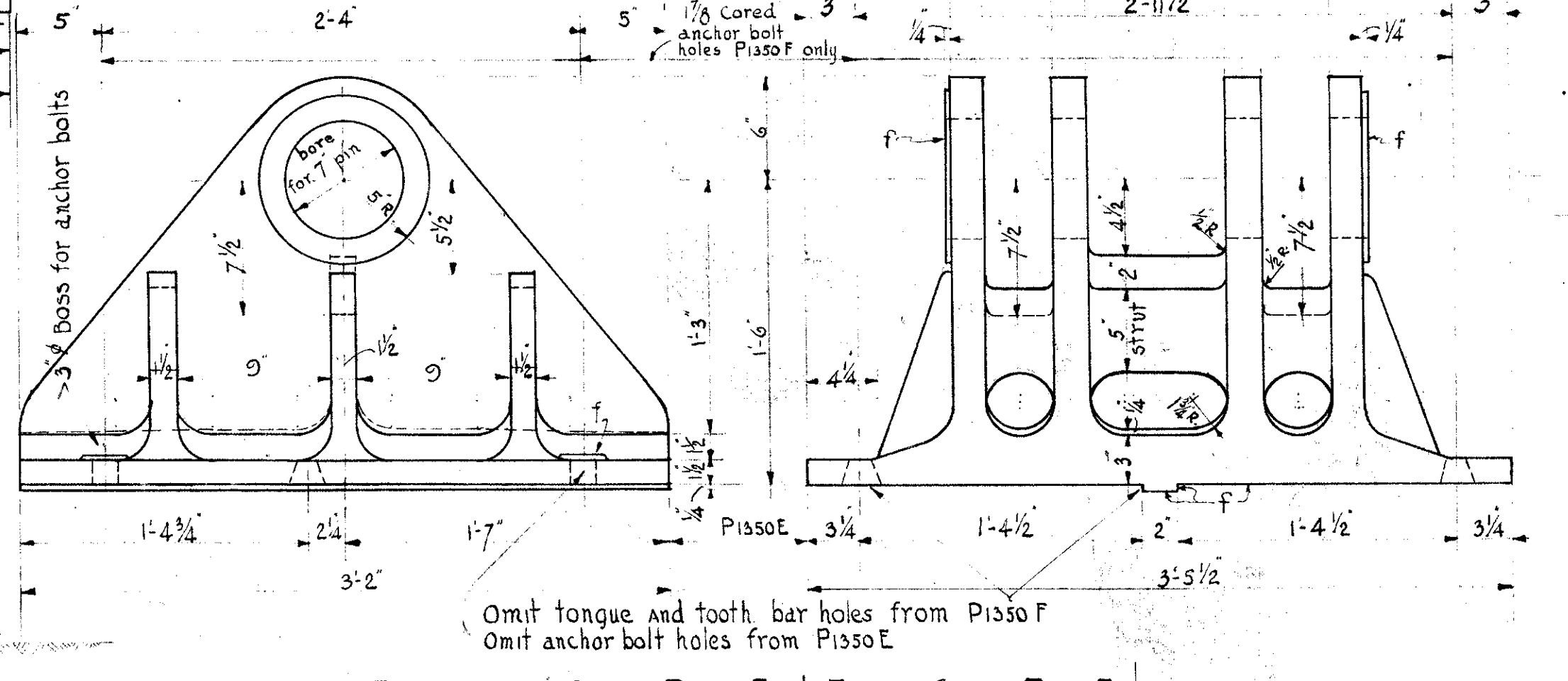
Scale 1'-1'-0"



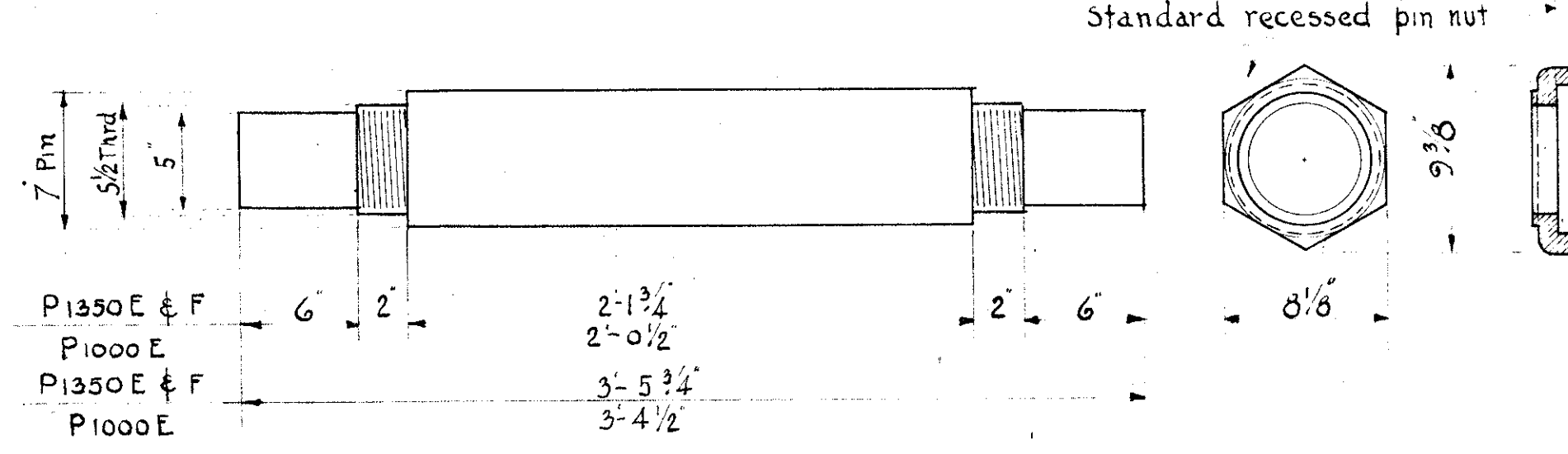
EXPANSION SHOES P415E & P460E & FIXED SHOE P415F



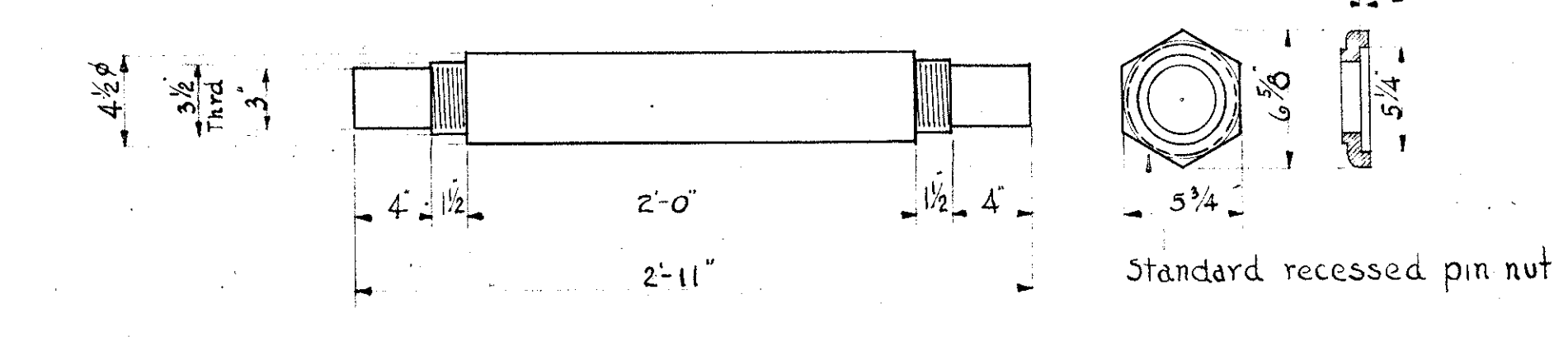
EXPANSION SHOE P1000E



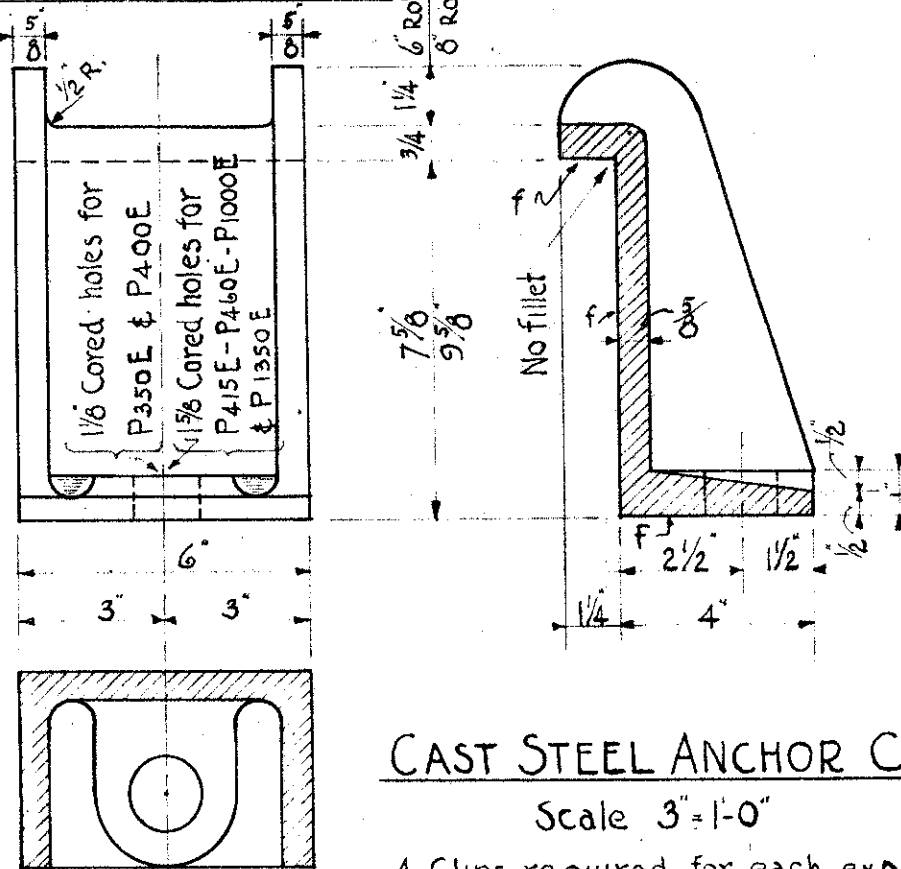
EXPANSION SHOE P1350E & FIXED SHOE P1350F



PIN & RECESSED PIN NUTS FOR P1350E & F & P1000E
Material - forged steel

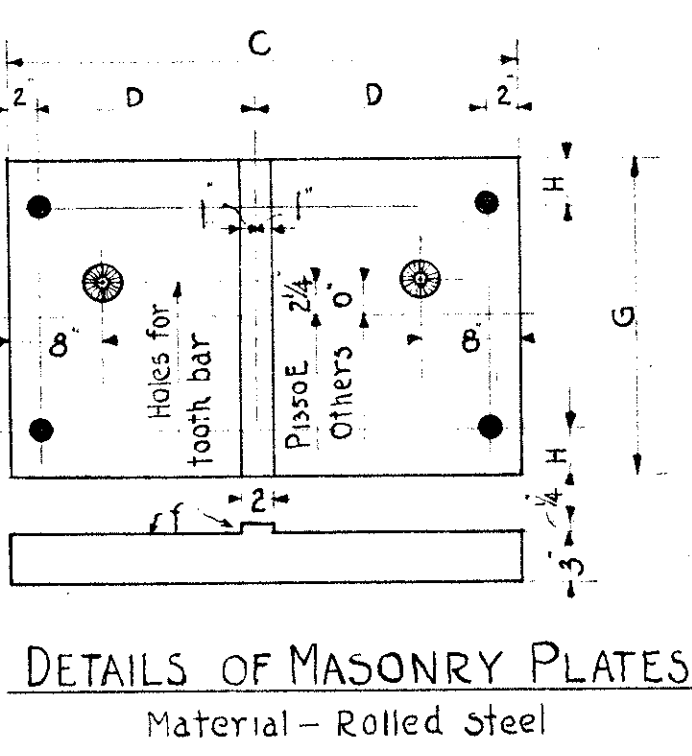


PIN & RECESSED PIN NUTS FOR P415E & F & P460E
Material - Rolled steel



CAST STEEL ANCHOR CLIPS
Scale 3'-1'-0"

4 Clips required for each exp. pedestal



DETAILS OF MASONRY PLATES
Material - Rolled Steel

Dimensions of Masonry Plates	C	D	G	H
P 350 E	3'-1"	1'-4 1/2"	2'-2"	5"
P 400 E	3'-4"	1'-6"	2'-2"	5"
P 415 E	3'-4"	1'-6"	2'-3"	5 1/2"
P 460 E	3'-6"	1'-7"	2'-3"	5 1/2"
P 1000 E	3'-11"	1'-9 1/2"	2'-10"	5"
P 1350 E	4'-3"	1'-11 1/2"	3'-2"	6"

GENERAL NOTES
SPECIFICATIONS - Design to be in accordance with the Ohio Department of Highways "Specifications for Design of Highway Structures" dated September, 1953.
Material, Fabrication, Erection and Painting to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.
MATERIAL - All material to be cast steel except as noted.
BOLT HOLES - Bolt holes in top castings to be drilled 1/8" larger than diameter of bolts.
FILLETS - In general, the radius of all fillets on castings is to be 2 1/2" except as noted.
SETTING SHOES - Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.

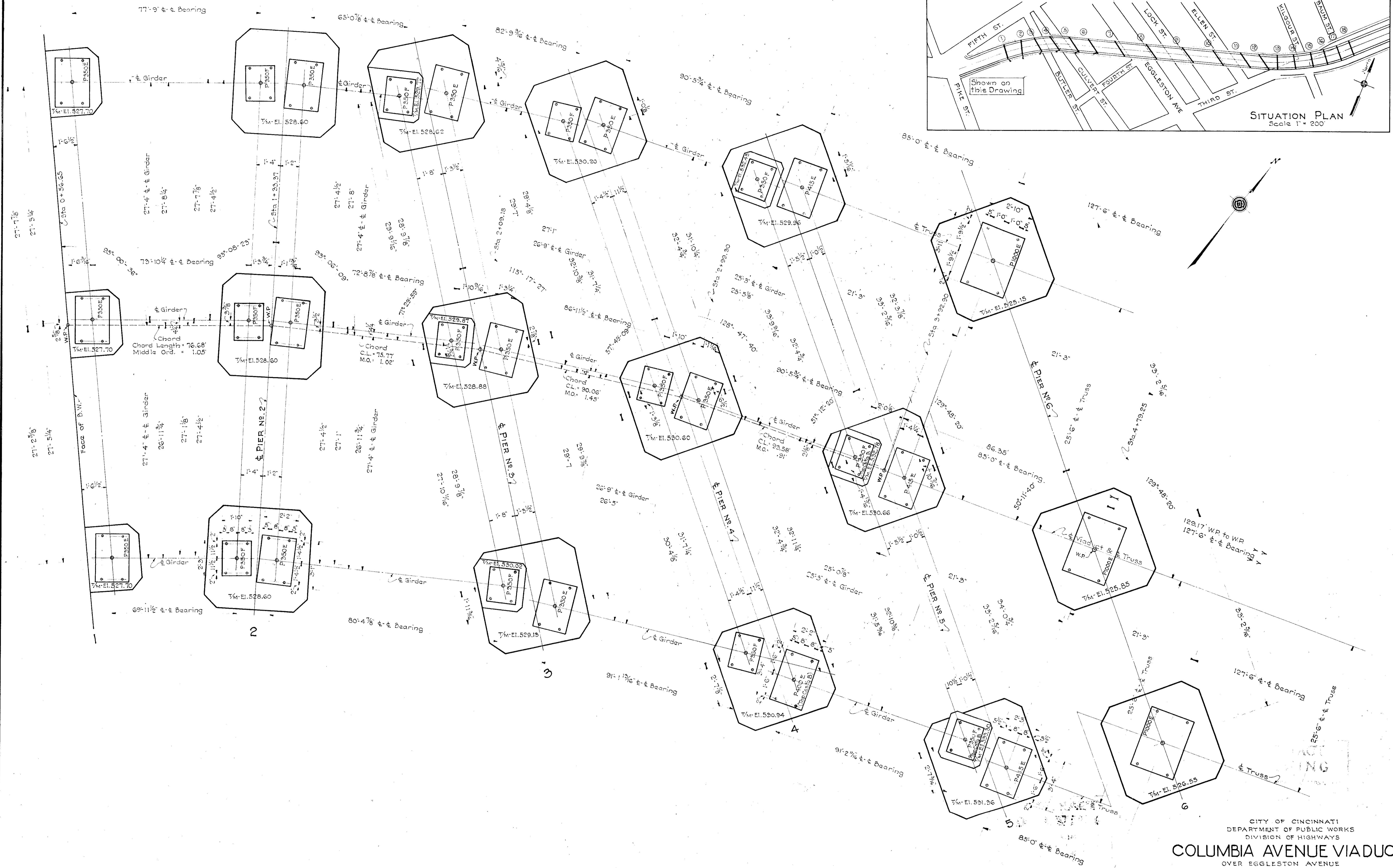
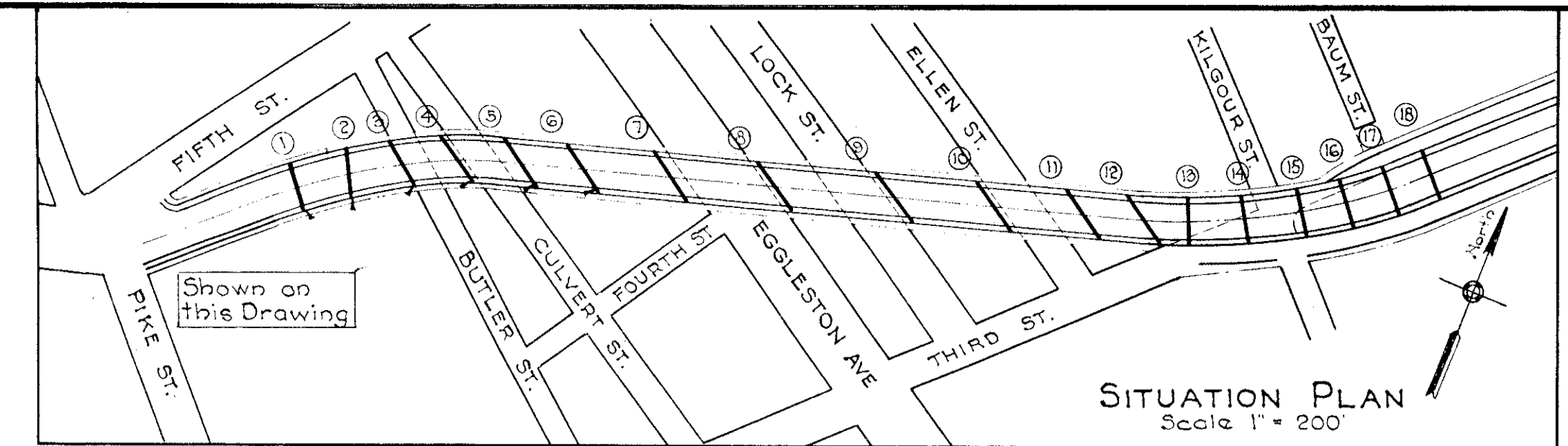
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
**COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
CAST STEEL PEDESTALS**

SCALE: 1/2" = 1'-0" & AS NOTED AUGUST 1, 1936 ISSUE NO. 1

SUBMITTED: *Tracy Jones*
Special Engineer
APPROVED: *W. H. ...*
Director of Public Works
APPROVED: *W. H. ...*
City Manager

Issue No.	Revision	Date	Sig.	Sig.

ACC. NO. 5156
PRINT MADE



CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
PIERS 1-6
PIER TOP LAYOUT & ANCHOR BOLT PLAN

SCALE: 3/8" = 1'-0" AUGUST 1, 1936 ISSUE 1
 SUBMITTED: [Signature] SPECIAL ENGINEER
 APPROVED: [Signature] ENGINEER
 APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS
 APPROVED: [Signature] CITY MANAGER

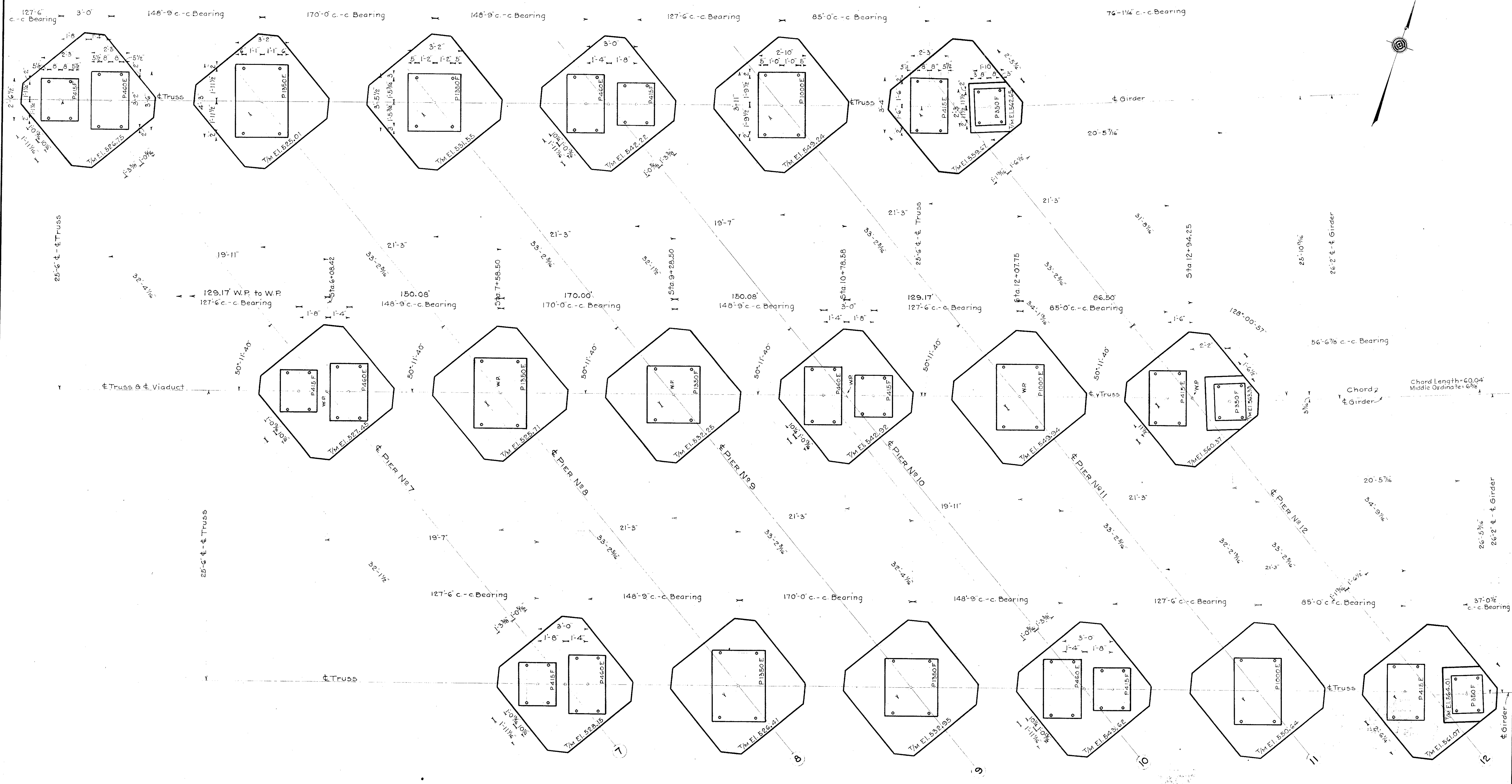
GENERAL NOTES -
 Steel Erector shall dress down the bridge seat bearing areas to the elevations called for.
 Holes for Anchor-Bolts shall be drilled by the steel erector in the locations shown, and the anchor bolts grouted in with cement grout. The size and depth of the bolts shall be as called for on the drawings showing other details of the shoes.

ISSUE NO.	REVISION	DATE	SIG.	SIG.

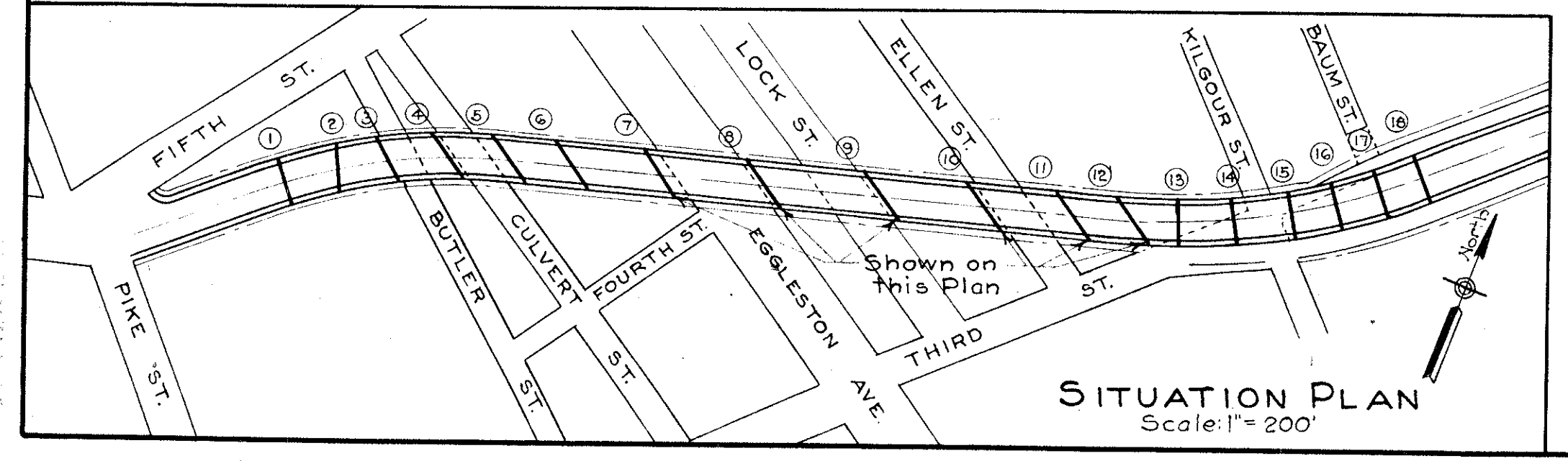
ACC. NO. 5157
 PRINT MADE

16-10-23

P.A.V.
 W.J.I.
 A.R.
 [Signature]



PLAN



GENERAL NOTES:
 Steel Erector shall dress down the bridge seat bearing areas to the elevations called for.
 Holes for Anchor Bolts shall be drilled by the steel erector in the locations shown, and the anchor bolts grouted in with cement grout. The size and depth of the bolts shall be as called for on the drawings showing the details of the shoes.

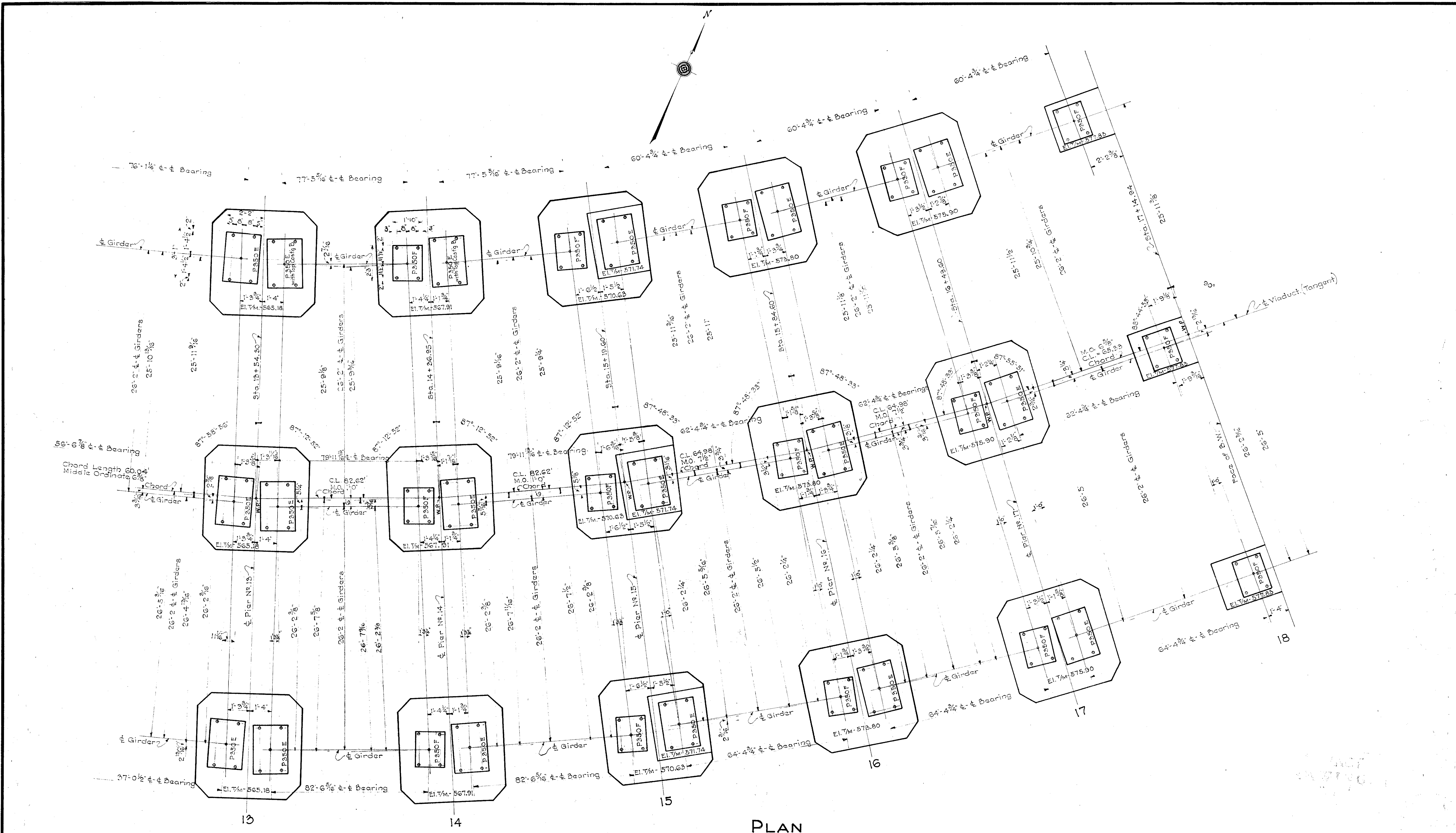
ISSUE NO.	REVISION	DATE	516	516

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
PIERS 7-12
PIER TOP LAYOUT & ANCHOR BOLT PLAN
 SCALE: 3/8" = 1'-0" AUGUST 1, 1936 ISSUE: 1

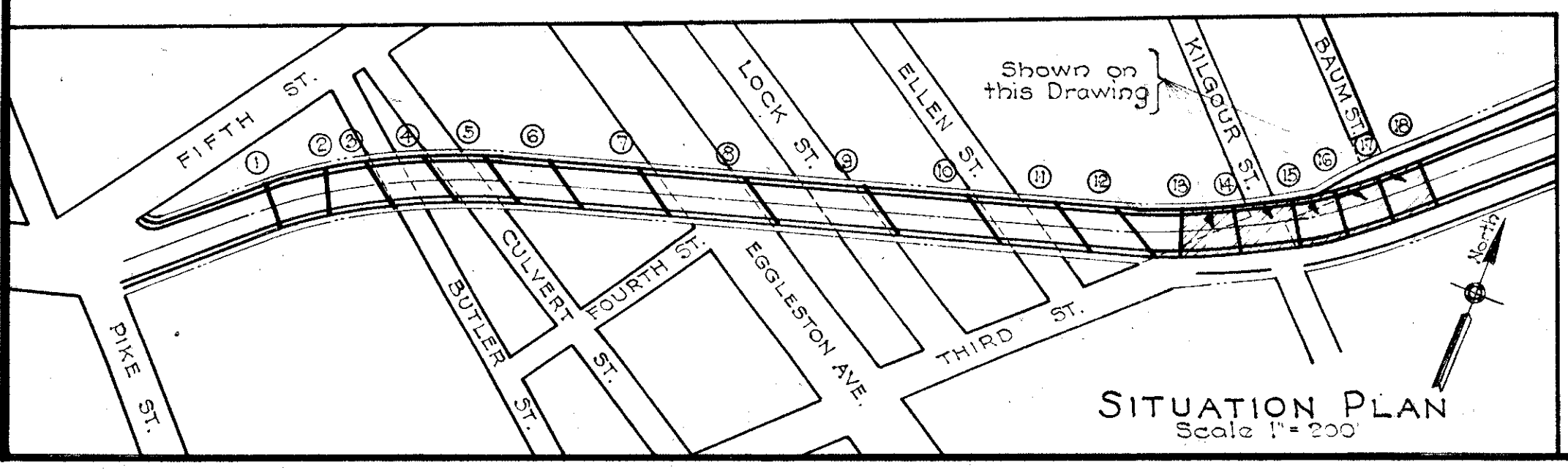
SUBMITTED: *[Signature]* APPROVED: *[Signature]*
 SPECIAL DESIGNER ENGINEER OF HIGHWAYS

APPROVED: *[Signature]* APPROVED: *[Signature]*
 DIRECTOR OF PUBLIC WORKS CITY MANAGER

Acc. No. 5158
 PRINT MADE



PLAN

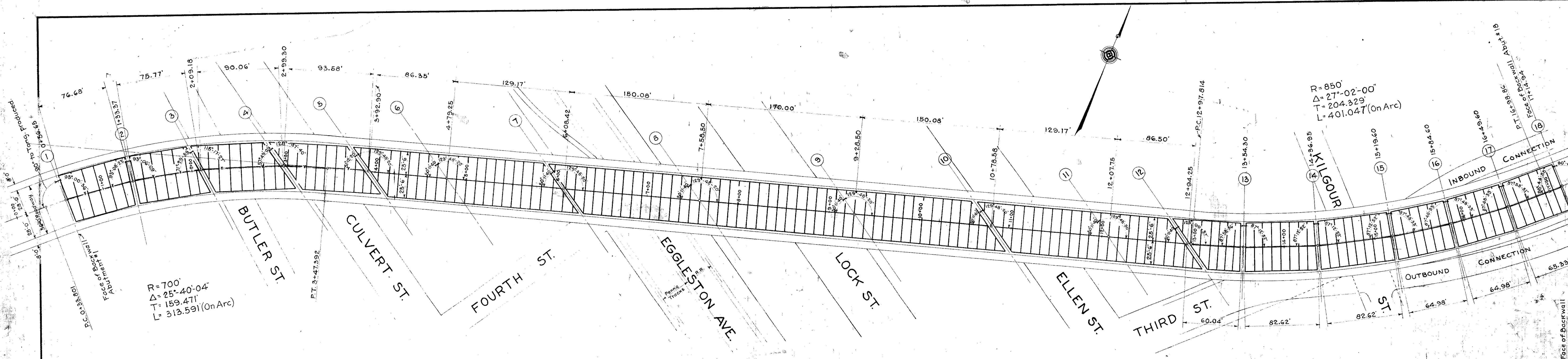


GENERAL NOTES
 Steel Erector shall dress down the bridge seat bearing areas to the elevations called for.
 Holes for anchor bolts shall be drilled by the steel erector in the locations shown, and the anchor bolts grouted in with cement grout. The size and depth of the bolts shall be as called for on the drawings showing the details of the shoes.

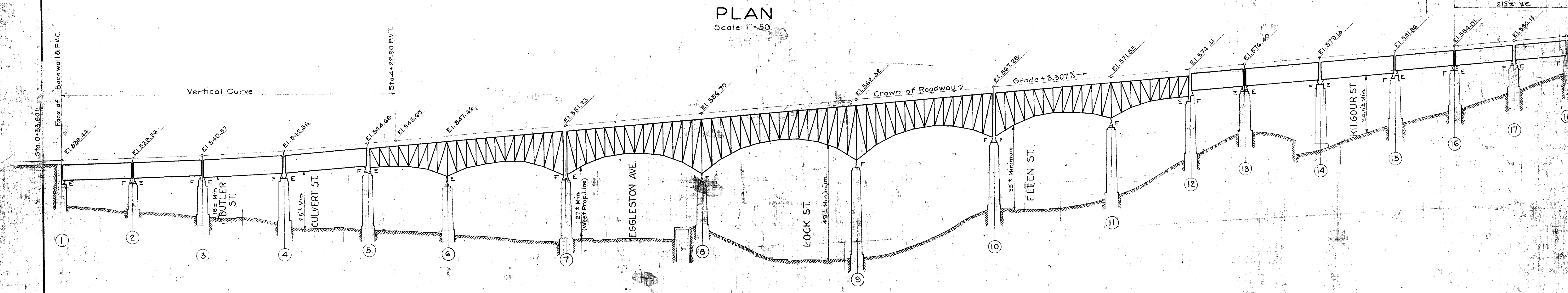
NO.	REVISIONS	DATE	SIG.	SIG.

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
SPANS 13-18
PIER TOP LAYOUT & ANCHOR BOLT PLAN
 SCALE: 3/8" = 1'-0" AUGUST 11, 1936 ISSUE: 1
 SUBMITTED: *[Signature]* ENGINEER APPROVED: *[Signature]* ENGINEER OF HIGHWAYS
 APPROVED: *[Signature]* DIRECTOR OF PUBLIC WORKS APPROVED: *[Signature]* CITY MANAGER

ACC. NO. 5159

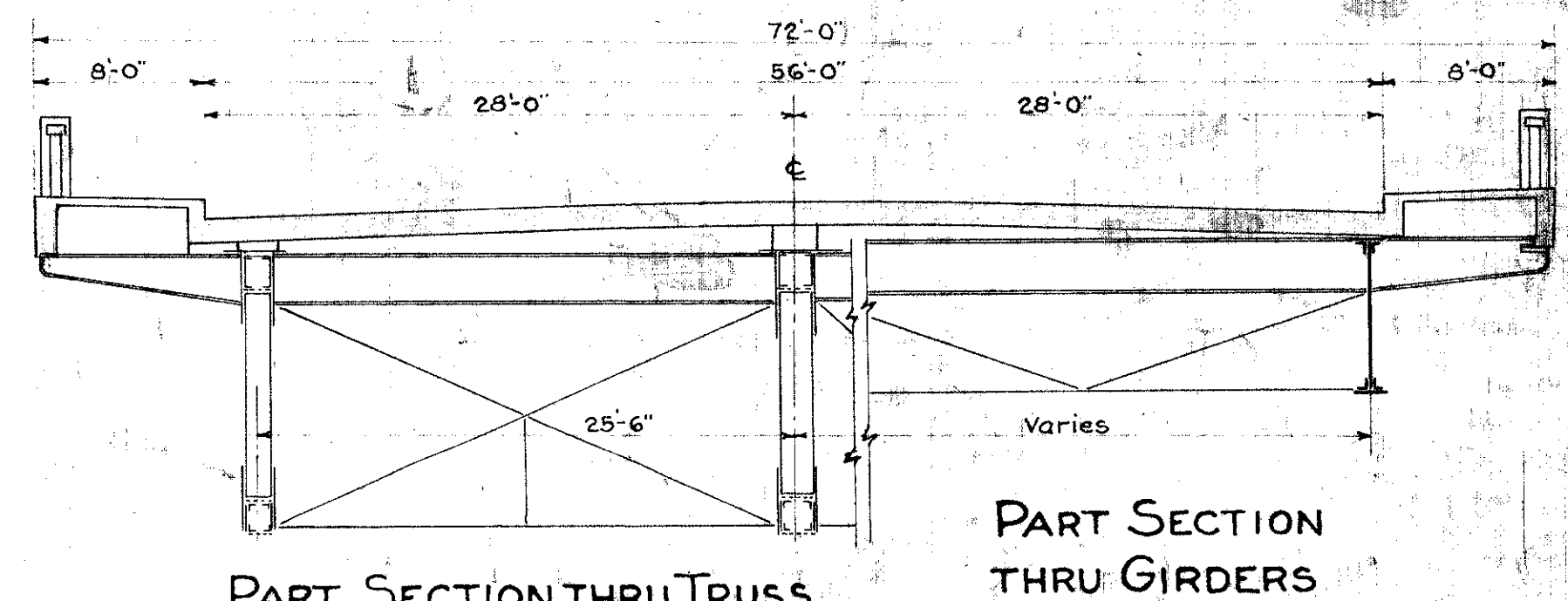


PLAN
Scale: 1"=50'



PROFILE
Horizontal Scale: 1"=50' Vertical Scale: 1"=20'

DWG No	SPAN No.	TITLE
5135	1-18	GENERAL PLAN-SUPERSTR.
5136	1-2	STRESS SHEET
5137	2-3	STRESS SHEET
5138	3-4	STRESS SHEET
5139	4-5	STRESS SHEET
5140	1-2 to 4-5	DETAILS
5141	5-7 & 10-12	PLAN & ELEVATION
5142	5-7 & 10-12	STRESS SHEET
5143	5-7 & 10-12	DETAILS-PANELS 0-2
5144	5-7 & 10-12	DETAILS-PANELS 7-9
5145	5-7 & 10-12	DETAILS-PANELS 14-15 & 18-20
5146	7-10	PLAN & ELEVATION
5147	7-10	STRESS SHEET
5148	7-10	DETAILS-PANELS 0-1-2 & 4
5149	7-10	DETAILS-PANELS 6-7 & 8
5150	7-10	DETAILS-PANELS 14-15-16 & 21-22
5151	5-6 to 11-12	DETAILS OF BRACING
5152	12-13	STRESS SHEET
5153	13-14 & 14-15	STRESS SHEET
5154	15-16, 16-17 & 17-18	STRESS SHEET
5155	12-13 to 17-18	DETAILS
5156	ALL	CAST STEEL PEDESTALS
5157	PIERS 1-6	PIER TOP LAYOUT & A.B. PLAN
5158	PIERS 7-12	PIER TOP LAYOUT & A.B. PLAN
5159	PIERS 13-18	PIER TOP LAYOUT & A.B. PLAN



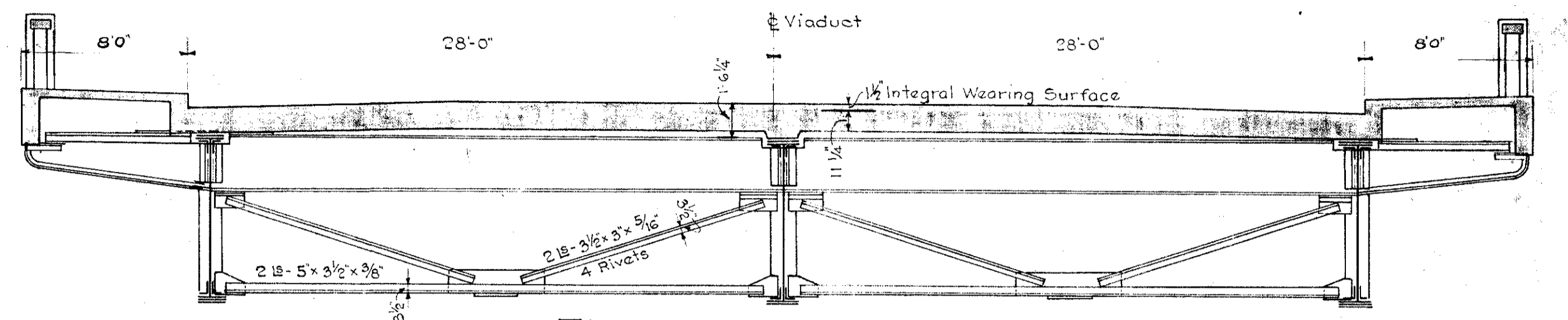
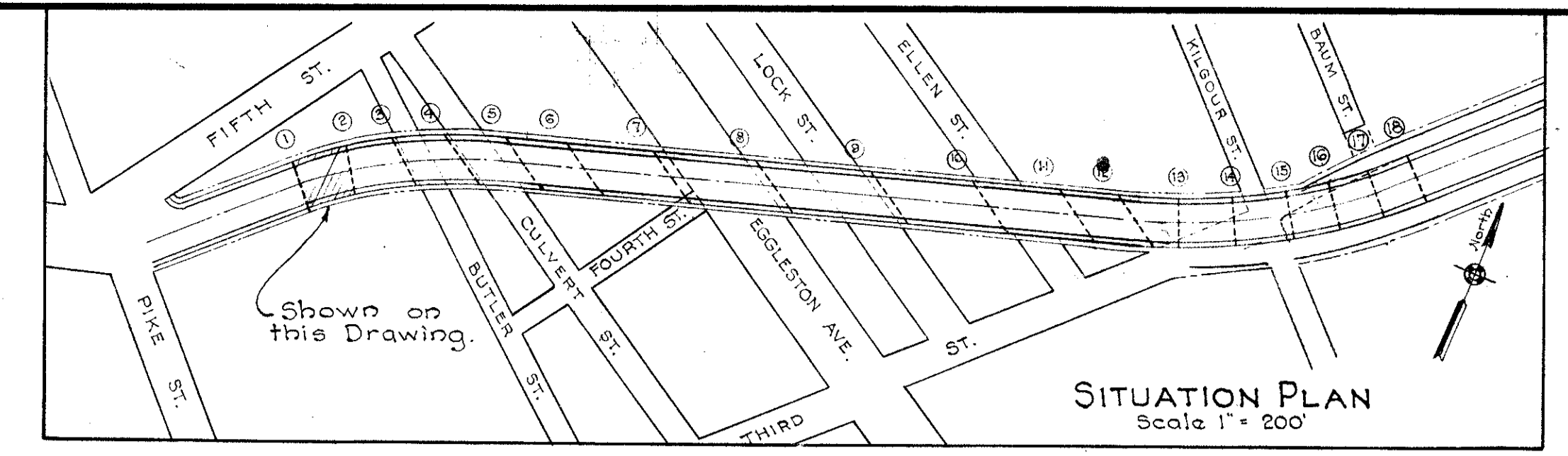
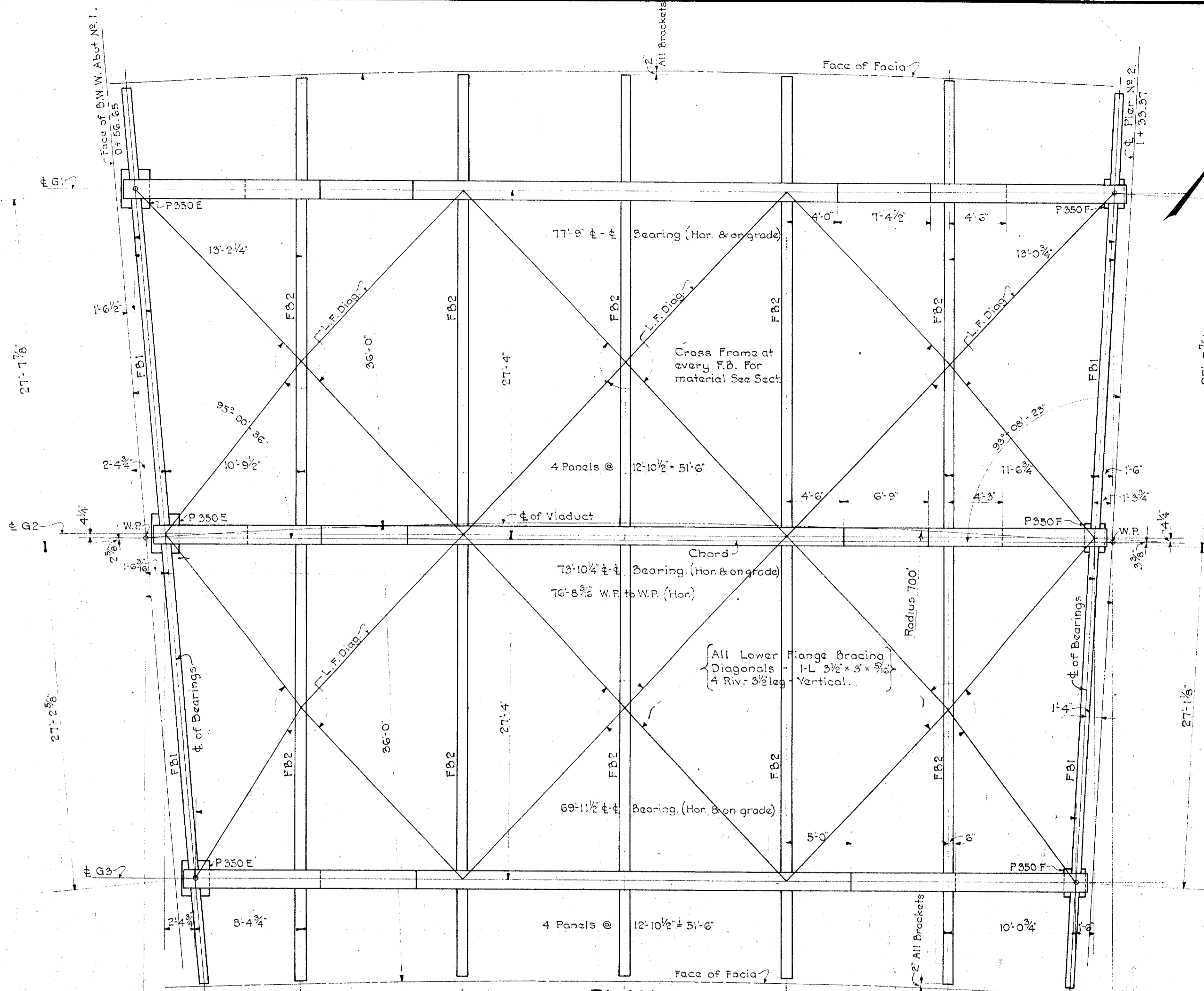
PART SECTION THRU TRUSS
PART SECTION THRU GIRDERS
Scale: 1/8"=1'-0"

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
GENERAL PLAN OF SUPERSTRUCTURE
ABUTMENT No. 1 to ABUTMENT No. 18
SCALES: As Noted August 1, 1936 ISSUE: 1

SUBMITTED: [Signature]
APPROVED: [Signature]
APPROVED: [Signature]
APPROVED: [Signature]

ISSUE No.	REVISION	DATE	Sig.	Sig.

Acc. No. 5135
PRINT MADE



DESIGN OF FLOOR BEAMS

FLOOR BEAM.	MOMENTS (IN FT. KIPS)	FB1	FB2
Dead Load.	119	198	
Live Load. (H-20-33 Wheel Loads)	252	252	
Impact.	82	82	
TOTALS.	453	532	
Section Modulus Req. (Net & Gross)	303	355	
Section Modulus Provided.	328	355	
SHEARS (IN KIPS)			
Dead Load.	25	38	
Sidewalk Live Load. (100'/5F)	1	1	
Live Load. (H-20-33 Wheel Loads)	40	40	
Impact.	12	12	
TOTALS.	78	92	
Web Area Required Sq. In.	6.6	7.7	
Web Area Provided Sq. In.	16.9	17.6	
BEAM SIZES			
	30" WF @ 116'	30" WF @ 124'	

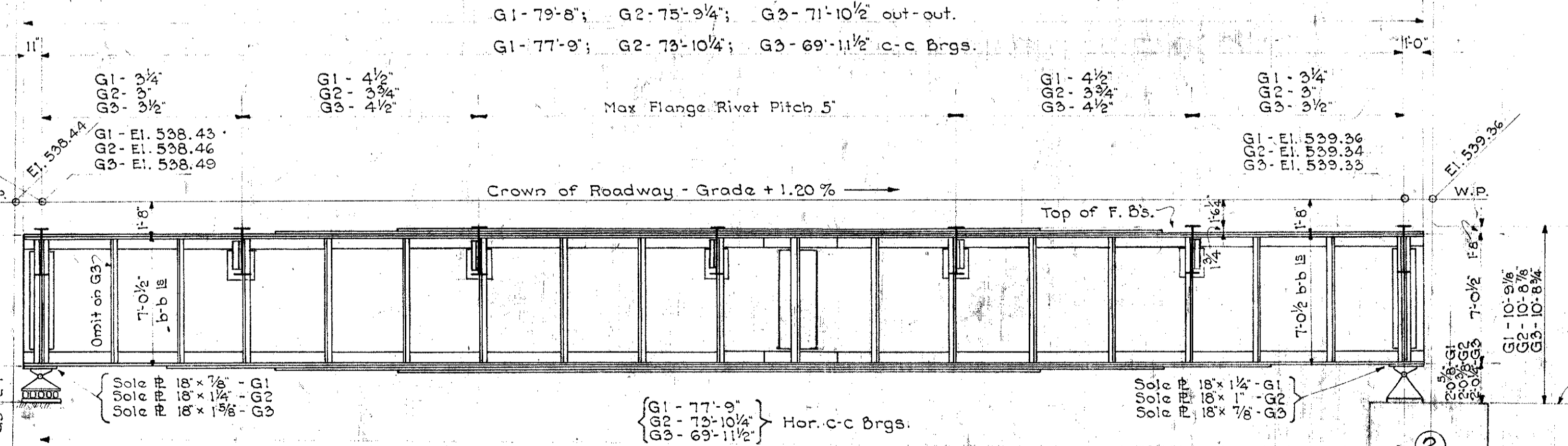
DESIGN OF GIRDERS

GIRDER.	G1	G2	G3
Dead Load - Concrete, Floor, etc.	4470*	5250	4430
Dead Load - Girder.	510	520	420
TOTAL D.L. Per L.F. of Girder.	4980	5770	4850
MOMENTS (IN FT. KIPS)			
Dead Load.	3750	3850	2850
Sidewalk Live Load. (60'/5F)	346	—	270
Uniform Live Load. (H-20-33)	591	774	448
Concentrated L.L. (H-20-33)	770	1051	638
Impact.	336	459	279
TOTALS.	5793	6124	4485
Net Flange Area Required.	57.93 x 12 = 404"	61.24 x 12 = 490"	44.85 x 12 = 362"
Net Flange Area Provided.	83.3 x 18 = 464"	83.7 x 18 = 464"	82.1 x 18 = 362"
SHEARS (IN KIPS)			
Dead Load.	160	179	146
Sidewalk Live Load. (60'/5F)	15	—	13
Uniform Live Load. (H-20-33)	25	36	23
Concentrated L.L. (H-20-33)	32	49	33
Impact.	14	21	14
TOTALS.	246	285	229
Web Area Required Sq. In.	20.5	23.7	19.1
Web Area Provided Sq. In.	36.7	36.7	36.7

SECTIONS OF GIRDERS

	G1	G2	G3
Web.	84" x 7/16"	84" x 7/16"	84" x 7/16"
Flange Angles - 4 ls.	8" x 8" x 1/16"	8" x 8" x 1/16"	8" x 8" x 5/16"
1st Top Cover, Full Length.	18" x 9/16"	18" x 5/8"	18" x 1/2"
1st Bottom Cover.	18" x 9/16" x 60'-6"	18" x 5/8" x 60'-0"	18" x 1/2" x 50'-6"
2nd Cover - Top & Bottom.	18" x 1/2" x 48'-6"	18" x 9/16" x 48'-3"	18" x 1/2" x 34'-6"
3rd Cover - Top & Bottom.	18" x 1/2" x 33'-9"	18" x 9/16" x 34'-9"	18" x 1/2" x 34'-6"
End Stiffeners - 4 lb. Filled.	6" x 4" x 1/2"	6" x 4" x 9/16"	6" x 4" x 1/2"

Dimensions marked "Hor" are measured in Horizontal Plane. All others are measured in plane of floor.



ELEVATION

Shown for G2
G1 & G3 Similar except as noted.

Intermediate Stiffeners
At Fl. Beam & Brkt. Connections: 6" x 4" x 3/8" Filled.
Others - 6" x 4" x 3/8" Crimped.

GENERAL NOTES

SPECIFICATIONS: Design to be in accordance with the Ohio Department of Highways "Specifications for Design of Highway Structures" dated September, 1933. Material, Fabrication, Erection and Painting to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.

DEAD LOAD: The assumed dead load contains an allowance of 25 lbs. per sq. ft. of roadway for future wearing surface.

LIVE LOAD: H-20-33 at 18,000 lbs. per sq. inch basic unit stress.

RIVETS: 7/8"

ANCHOR BOLTS: Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.

BEARING AREAS: To be dressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.

ESTIMATED WEIGHT OF STEEL: 202,200 lbs.

ISSUE	REVISION	DATE	Sig.	Sig.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPAN 1-2
STRESS SHEET

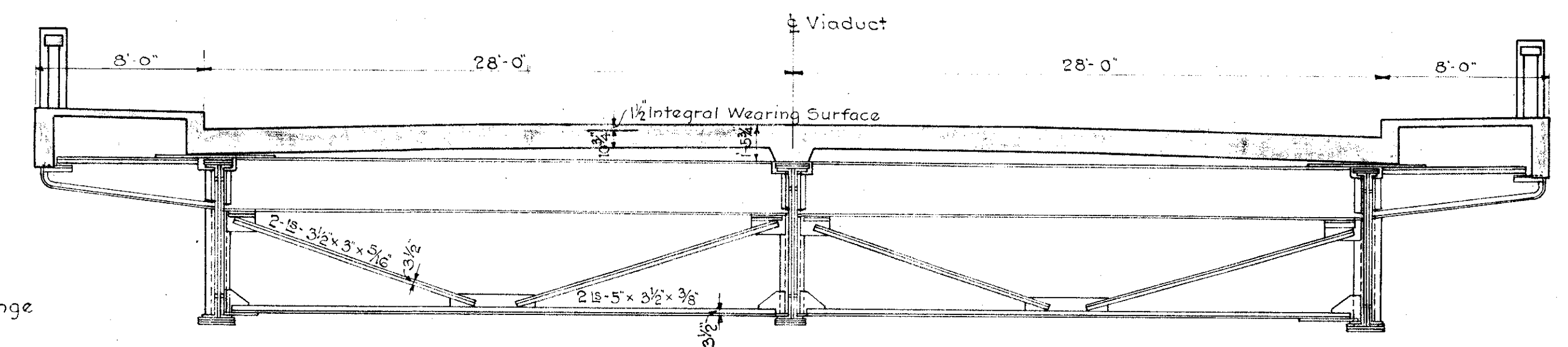
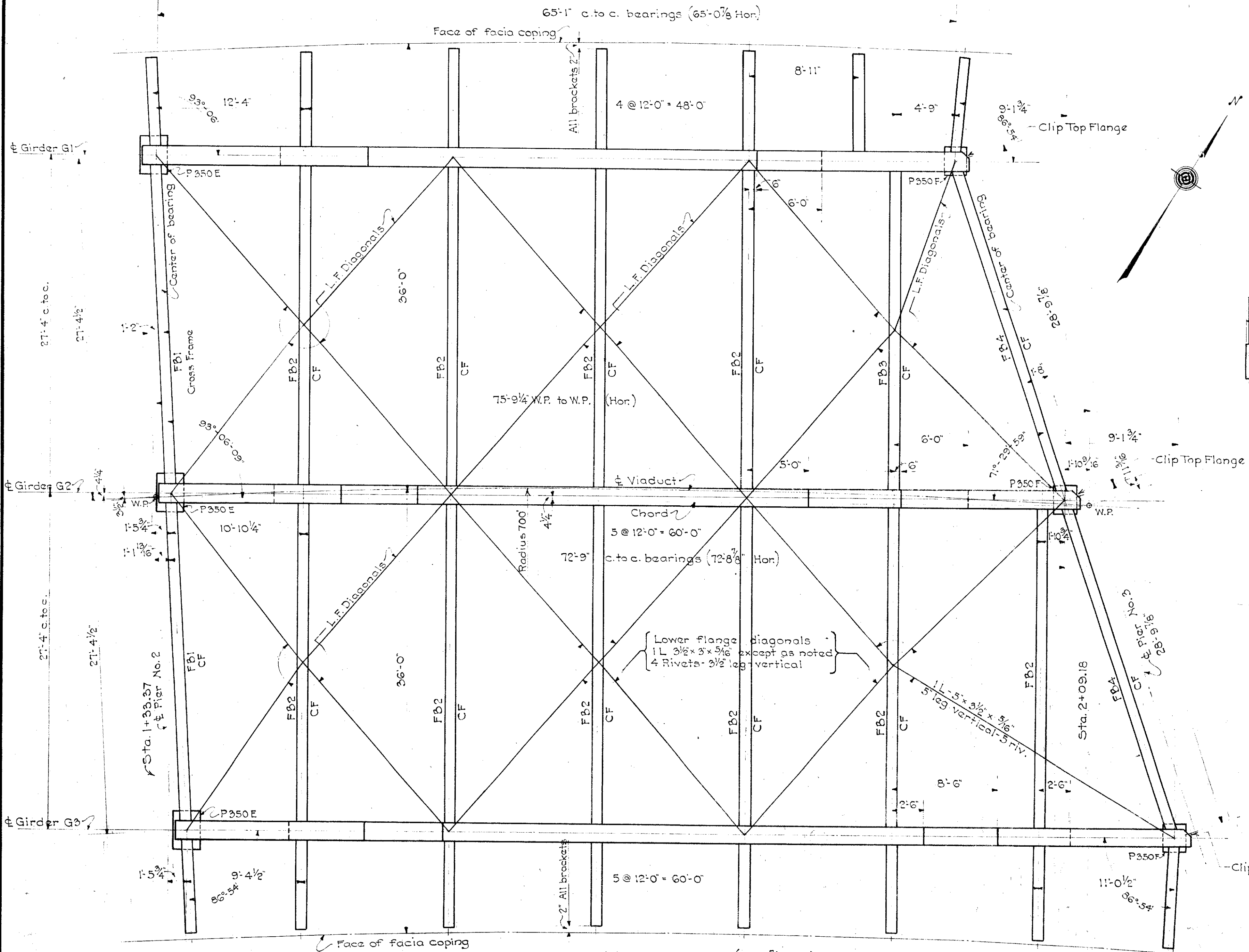
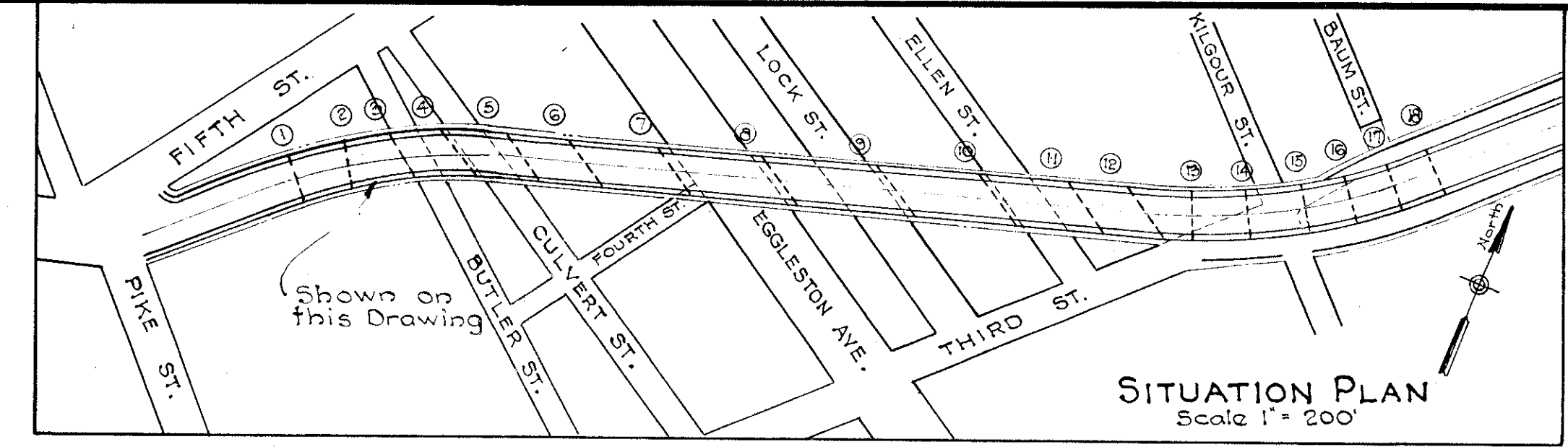
SCALE: 3/16" = 1'-0" August 1, 1936 ISSUE: 1

SUBMITTED: [Signature] SPECIAL ENGINEER APPROVED: [Signature] ENGINEER OF HIGHWAYS
APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS APPROVED: [Signature] CITY MANAGER

ACC. NO. 5136
PRINT MADE

DESIGNED BY I.P.Y.
DRAWN BY I.P.Y.
CHECKED BY W.S.I.
TRACED BY A.P.
CORRECTED BY [Signature]

16-10-2



DESIGN OF FLOOR BEAMS

FLOOR BEAM.	FB1	FB2	FB3	FB4
MOMENT. (IN FT. KIPS).				
Dead Load.	106	168	194	169
Live Load. (H-20-33, Wheel Loads)	252	252	252	265
Impact.	83	83	83	86
Total.	441	503	529	520
Section Modulus Req. (Net or Gr.)	294	325	353	347
Section Modulus Provided.	299	355	355	355
SHEAR. (IN KIPS)				
Dead Load.	21.4	34.6	30.3	30.3
Sidewalk Live Load. (100 lb./S.F.)	0.6	1.1	—	1.0
Live Load. (H-20-33, Wheel Loads)	40.8	39.4	40.8	40.8
Impact.	13.4	12.9	13.4	13.3
Total.	76.2	88.0	84.5	85.4
Web Area Required, Sq. in.	6.3	7.3	7.1	7.1
Web Area Provided, Sq. in.	16.4	17.5	17.5	17.5
BEAM SIZE	30" WF @	108*	124*	124*

DESIGN OF GIRDERS

GIRDER.	G1	G2	G3
Assumed D.L. of concrete, etc. (Average)	455.0	507.5	435.0
Assumed weight of girder.	4.10	5.00	5.00
Total D.L. per Lin. Ft. of girder.	499.0	557.5	485.0
MOMENT. (IN FT. KIPS)			
Dead Load.	2557	3618	3127
Sidewalk Live Load. (60 lb./S.F.)	236	—	351
Uniform Live Load. (H-20-33)	410	751	582
Concentrated L.L. (H-20-33)	630	1034	726
Impact.	272	453	318
Total Moment.	4105	5856	5704
Net flange area required, sq. in.	4105 x 12 / 82.31 x 18 = 39.3	5856 x 12 / 83.47 x 18 = 46.8	5704 x 12 / 83.36 x 18 = 45.5
Net flange area provided, sq. in.	39.3	47.4	45.5
SHEAR. (IN KIPS)			
Dead Load.	153	176	169
Sidewalk Live Load. (60 lb./S.F.)	13	—	16
Uniform Live Load. (H-20-33)	25	37	26
Concentrated L.L. (H-20-33)	36	51	33
Impact.	16	22	15
Total Shear.	243	286	259
Web area required, sq. in.	20.3	23.9	21.6
Web area provided, sq. in.	36.7	36.7	36.7

SECTION OF GIRDER.

Web.	84" x 7/16"	84" x 7/16"	84" x 7/16"
Flange angles - 4 lb.	8" x 5" x 3/8"	8" x 5" x 1/16"	8" x 5" x 1/16"
1st Top cover plate, full length.	18" x 7/8"	18" x 5/8"	18" x 1/2"
1st Bottom cover plate.	18" x 7/8" x 44'-0"	18" x 5/8" x 57'-6"	18" x 1/2" x 63'-6"
2nd Cover plate, top & bottom.	18" x 3/8" x 21'-6"	18" x 1/2" x 45'-6"	18" x 1/2" x 51'-6"
3rd Cover plate, top & bottom.	18" x 3/8" x 21'-6"	18" x 1/2" x 21'-9"	18" x 1/2" x 29'-0"
End stiffener angles, 4 lb filled.	6" x 4" x 7/16"	6" x 4" x 7/16"	6" x 4" x 7/16"

GENERAL NOTES:

SPECIFICATIONS: Design to be in accordance with the Ohio Department of Highways "Specifications for Design of Highway Structures" dated September, 1933. Material, Fabrication, Erection and Painting to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.

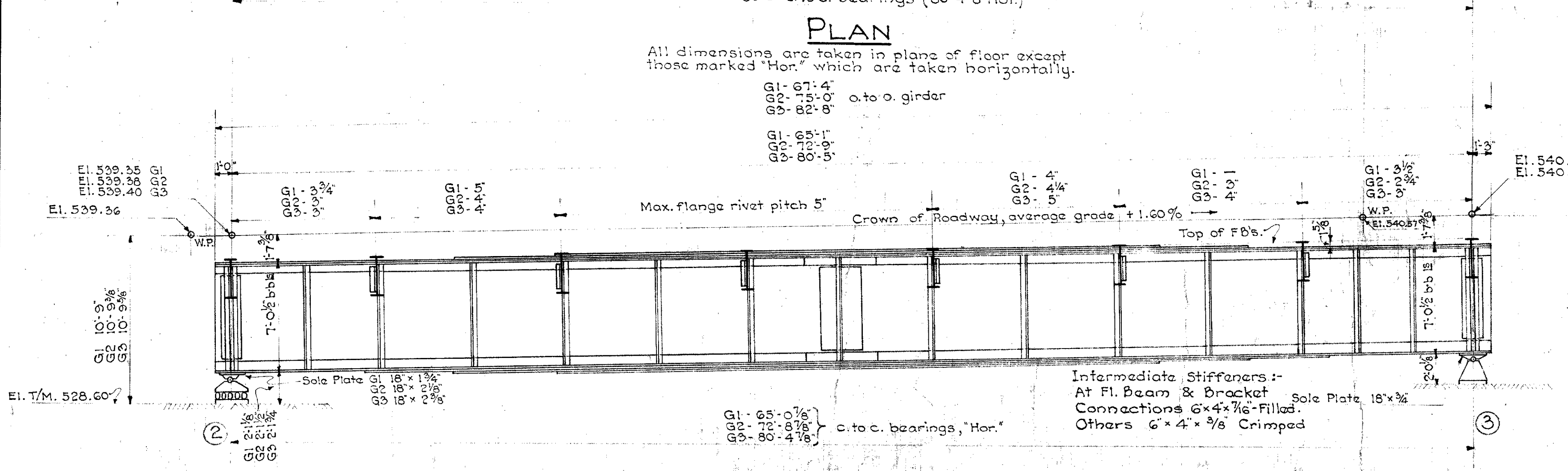
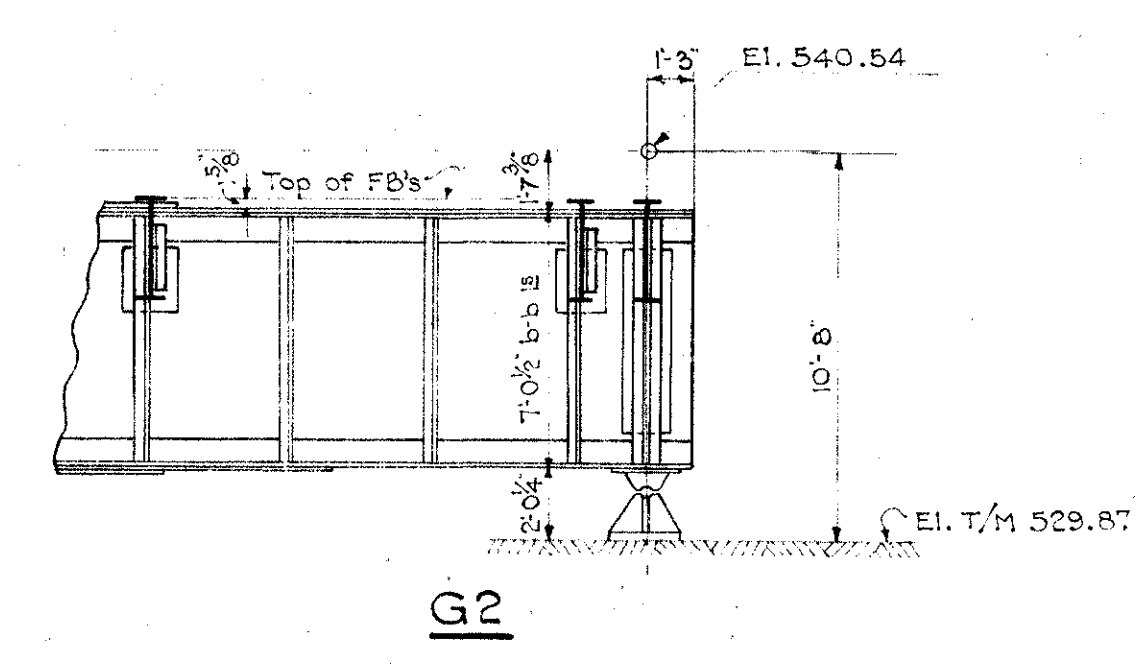
DEAD LOAD: - The assumed dead load contains an allowance of 25 lbs. per sq. ft. of roadway for future wearing surface.

LIVE LOAD: - H 20-33 at 18,000 lbs per sq. inch basic unit stress.

RIVETS: - 7/8"

ANCHOR BOLTS: - Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.

BEARING AREAS: - To be dressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.



ELEVATION OF G3
G1 & G2 Similar except as shown & noted.

ESTIMATED WEIGHT OF STEEL: - 203,770 LB.

ISSUE	REVISION	DATE	SIG.	SIG.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE

SPAN 2-3
STRESS SHEET

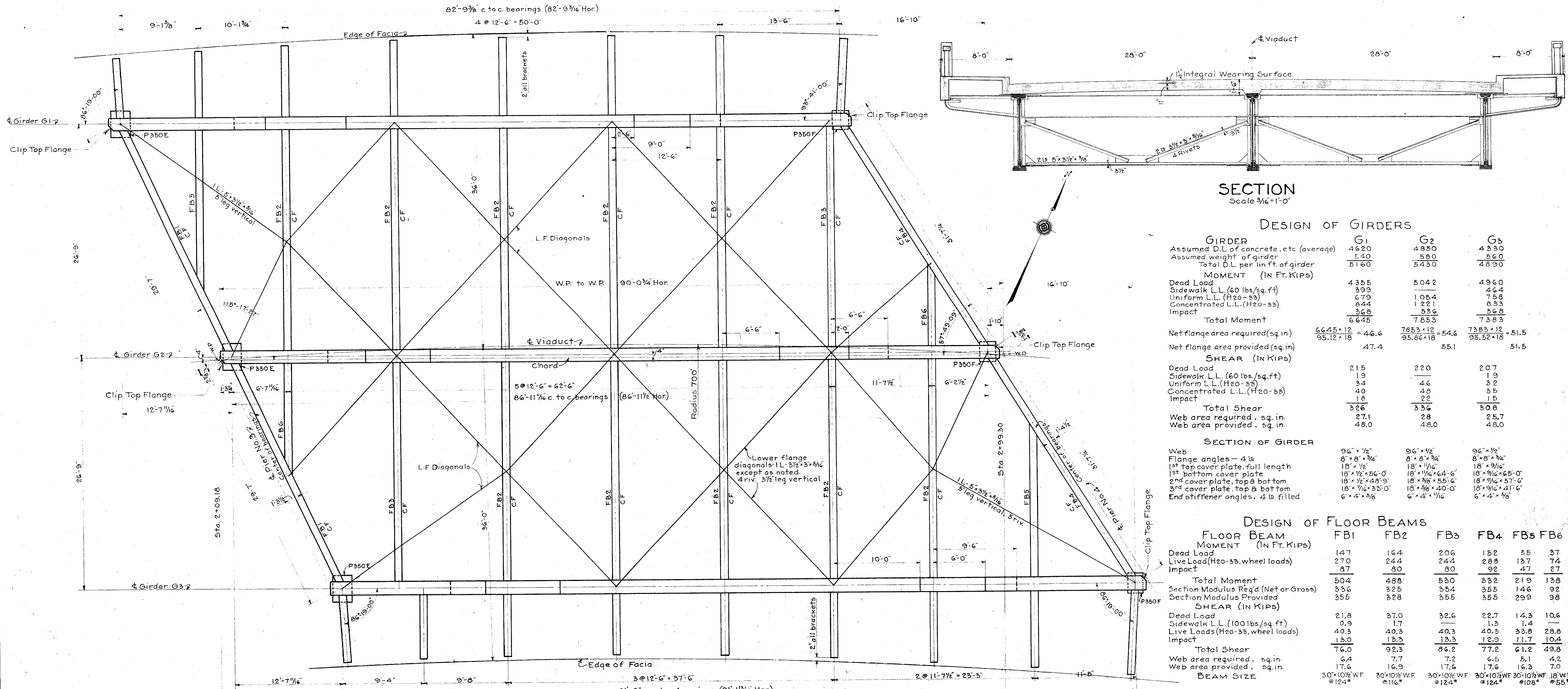
SCALE: 3/16" = 1'-0" August 1, 1936. ISSUE: 1

SUBMITTED: *Paul Jones* SPECIAL ENGINEER
APPROVED: *Paul Jones* DIRECTOR OF PUBLIC WORKS
APPROVED: *J.P. ...* ENGINEER OF HIGHWAYS
APPROVED: *...* CITY MANAGER

ACC. NO. 5137

PRINT MADE

DESIGNED BY: W.J.I.
DRAWN BY: W.J.I.
CHECKED BY: T.R.Y.
TRACKED BY: A.R.
CORRECTED BY:
W.J.I.



SECTION
Scale 3/16"=1'-0"

DESIGN OF GIRDERS

GIRDER	G1	G2	G3
Assumed D.L. of concrete, etc. (average)	4620	4850	4330
Assumed weight of girder	E.40	580	560
Total D.L. per lin-ft of girder	5160	5430	4890
MOMENT (IN FT. KIPS)			
Dead Load	4355	5042	4960
Sidewalk L.L. (60 lbs/sq.ft)	399		464
Uniform L.L. (H20-33)	679	1054	758
Concentrated L.L. (H20-33)	844	1221	833
Impact	368	536	368
Total Moment	6645	7653	7363
Net flange area required (sq.in)	$\frac{6645 \times 12}{95.12 \times 18} = 46.6$	$\frac{7653 \times 12}{95.66 \times 18} = 54.6$	$\frac{7363 \times 12}{95.52 \times 18} = 51.5$
Net flange area provided (sq.in)	47.4	55.1	51.5
Shear (IN KIPS)			
Dead Load	215	220	207
Sidewalk L.L. (60 lbs/sq.ft)	19		19
Uniform L.L. (H20-33)	34	46	32
Concentrated L.L. (H20-33)	40	48	35
Impact	18	22	15
Total Shear	326	336	308
Web area required, sq.in	27.1	28	25.7
Web area provided, sq.in	48.0	48.0	48.0

SECTION OF GIRDER

	96" x 1/2"	96" x 1/2"	96" x 1/2"
Web	96" x 1/2"	96" x 1/2"	96" x 1/2"
Flange angles - 4 ls	8" x 8" x 3/4"	8" x 8" x 3/4"	8" x 8" x 3/4"
1st top cover plate, full length	18" x 1/2"	18" x 1/2"	18" x 1/2"
1st bottom cover plate	18" x 1/2" x 56'-0"	18" x 1/2" x 64'-6"	18" x 1/2" x 65'-0"
2nd cover plate, top & bottom	18" x 1/2" x 48'-9"	18" x 1/2" x 55'-6"	18" x 1/2" x 57'-6"
3rd cover plate, top & bottom	18" x 1/2" x 33'-0"	18" x 1/2" x 40'-0"	18" x 1/2" x 41'-6"
End stiffener angles, 4 ls filled	6" x 4" x 5/8"	6" x 4" x 1/2"	6" x 4" x 5/8"

DESIGN OF FLOOR BEAMS

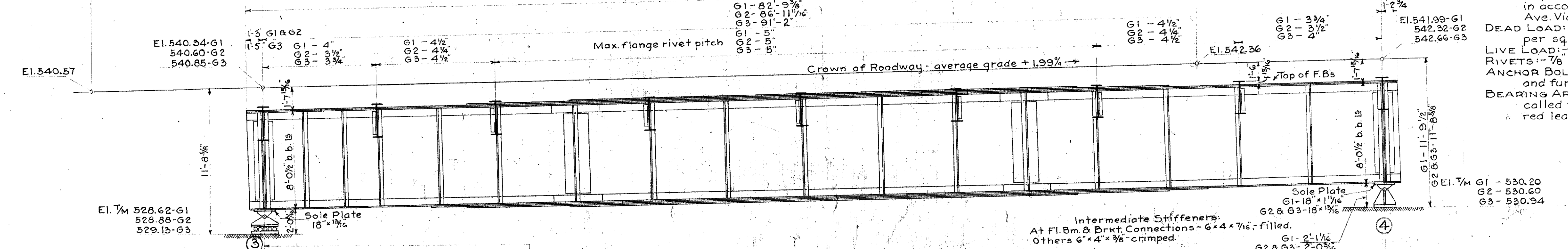
FLOOR BEAM	FB1	FB2	FB3	FB4	FB5	FB6
MOMENT (IN FT. KIPS)						
Dead Load	147	164	206	152	35	37
Live Load (H20-33, wheel loads)	270	244	244	288	137	74
Impact	47	80	80	92	47	27
Total Moment	504	488	530	532	219	138
Section Modulus Req'd (Net or Gross)	336	325	354	355	146	92
Section Modulus Provided	355	328	355	355	299	98
Shear (IN KIPS)						
Dead Load	21.8	37.0	32.6	22.7	14.3	10.6
Sidewalk L.L. (100 lbs/sq.ft)	0.9	1.7		1.3	1.4	
Live Loads (H20-33, wheel loads)	40.3	40.3	40.3	40.3	33.8	28.8
Impact	13.0	13.3	13.3	12.9	11.7	10.4
Total Shear	76.0	92.3	86.2	77.2	61.2	49.8
Web area required, sq.in	6.4	7.7	7.2	6.5	5.1	4.2
Web area provided, sq.in	17.6	16.9	17.6	17.6	16.3	7.0
BEAM SIZE	30" x 10 1/2" W.F. @ 124"	30" x 10 1/2" W.F. @ 116"	30" x 10 1/2" W.F. @ 124"	30" x 10 1/2" W.F. @ 124"	30" x 10 1/2" W.F. @ 108"	30" x 10 1/2" W.F. @ 55"

PLAN
All dimensions are taken in plane of floor except those marked Hor. which are taken horizontally.

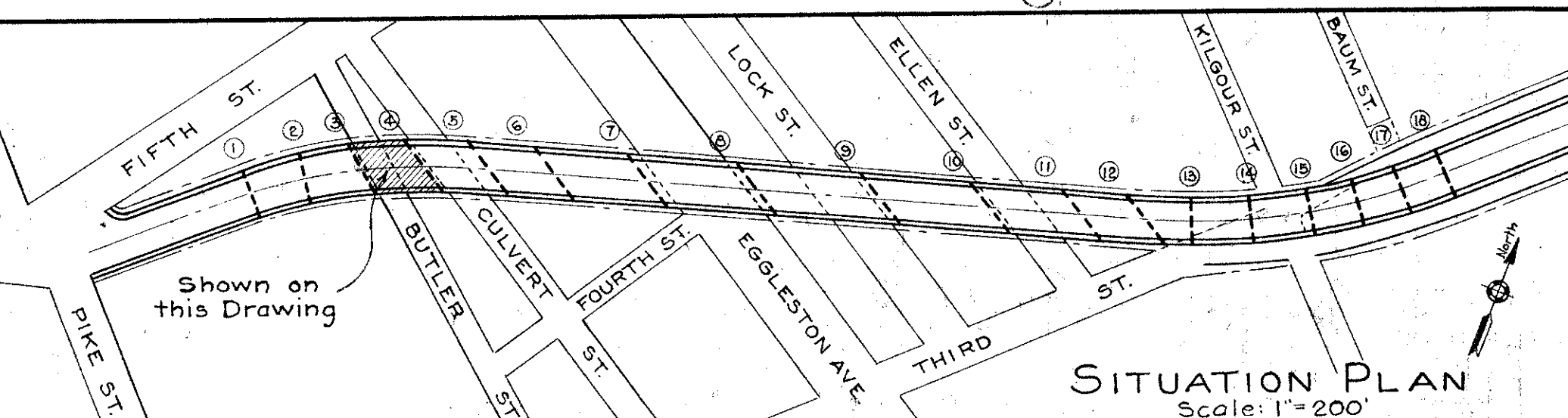
- G1 - 85'-3 1/8"
- G2 - 85'-3 1/8"
- G3 - 93'-9 1/4"
- G1 - 82'-9 1/4"
- G2 - 86'-11 1/4"
- G3 - 91'-2"
- G1 - 5'
- G2 - 5'
- G3 - 5'

Max. flange rivet pitch

Crown of Roadway - average grade + 1.93%



ELEVATION OF G3
G1 & G2 similar except as shown & noted.



GENERAL NOTES

SPECIFICATIONS: - Design to be in accordance with the Ohio Department of Highways 'Specifications for Design of Highway Structures' dated September, 1935. Material, Fabrication, Erection and Painting to be in accordance with the Special Specifications for the Columbia Ave Viaduct.
DEAD LOAD: - The assumed dead load contains an allowance of 25 lbs. per sq. ft. of roadway for future wearing surface.
LIVE LOAD: - H20-33 at 18,000 lbs per sq. inch basic unit stress.
RIVETS: - 7/8"
ANCHOR BOLTS: - Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.
BEARING AREAS: - To be dressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.

ESTIMATED WEIGHT OF STEEL: 262.00

ISSUE	REVISION	DATE	Sig.	Sig.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE

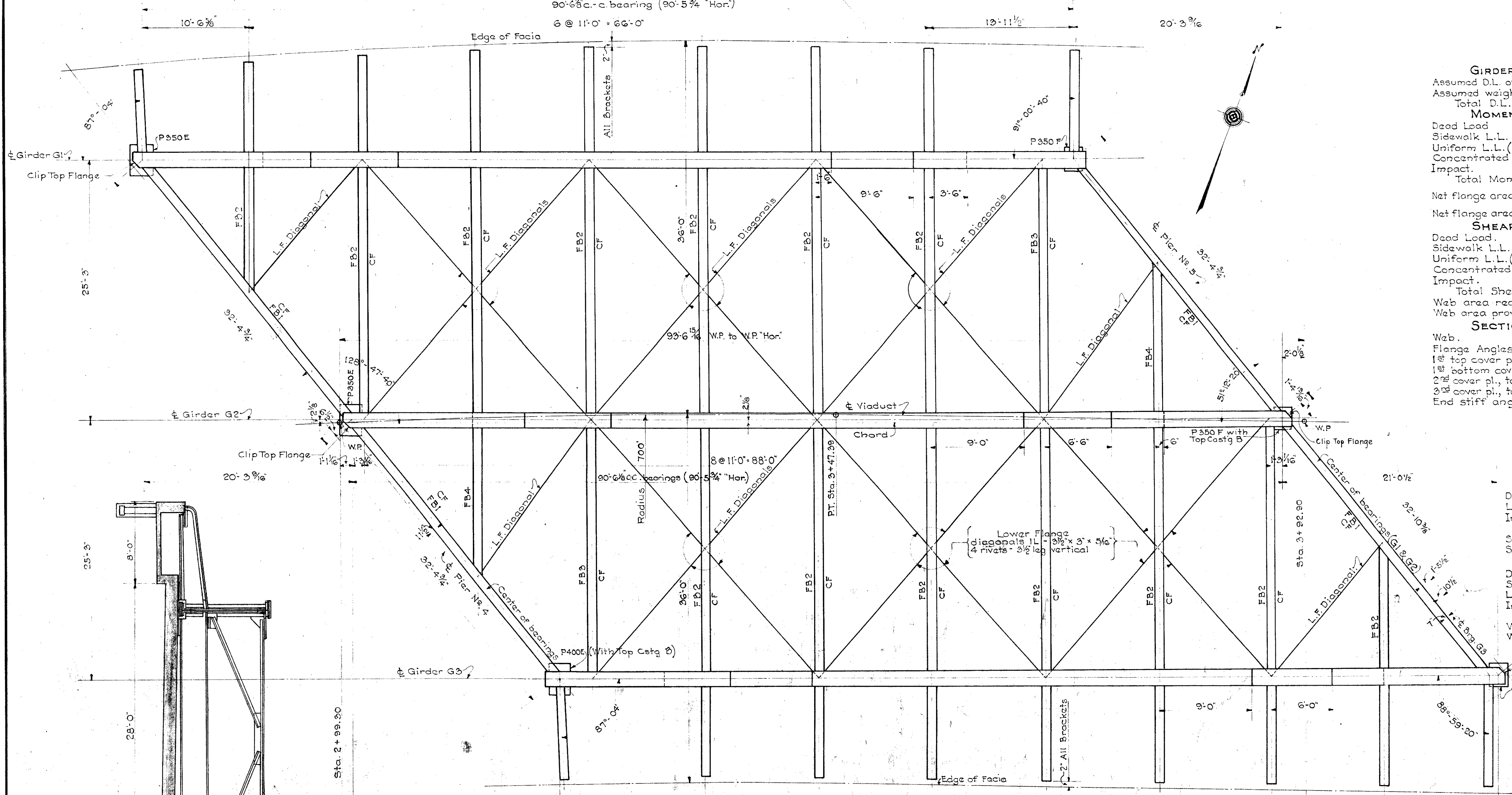
SPAN 3-4
STRESS SHEET

SCALE: 3/16"=1'-0" AUGUST 1, 1936 ISSUE: 1

SUBMITTED: *[Signature]* APPROVED: *[Signature]*
SPECIAL ENGINEER ENGINEER OF HIGHWAYS

APPROVED: *[Signature]* APPROVED: *[Signature]*
DIRECTOR OF PUBLIC WORKS CITY MANAGER

Acc. No. 5138
PRINT MADE



DESIGN OF GIRDERS

GIRDER	G1	G2	G3
Assumed D.L. of concrete, etc. (Average)	4750	4340	4610
Assumed weight of girder	600	580	600
Total D.L. per lin. ft. of Girder	5350	4920	5210
MOMENT (In Ft. Kips)			
Dead Load	5966	4802	5250
Sidewalk L.L. (60 lb./s.f.)	504	—	505
Uniform L.L. (H20-33)	839	1078	819
Concentrated L.L. (H20-33)	963	1225	924
Impact	418	535	402
Total Moment	8090	7640	7900
Net flange area required (sq. in.)	$\frac{8090 \times 12}{95.94 \times 18} = 56.2$	$\frac{7640 \times 12}{95.68 \times 18} = 53.2$	$\frac{7900 \times 12}{95.86 \times 18} = 55.0$
Net flange area provided (sq. in.)	56.2	53.2	55.1
SECTION OF GIRDER			
Dead Load	234	202	225
Sidewalk L.L. (60 lb./s.f.)	20	—	20
Uniform L.L. (H20-33)	40	45	38
Concentrated L.L. (H20-33)	40	42	39
Impact	19	20	18
Total Shear	353	309	340
Web area required (sq. in.)	—	—	—
Web area provided (sq. in.)	—	—	—
SECTION OF GIRDER			
Web	96" x 1/2"	96" x 1/2"	96" x 1/2"
Flange Angles - 4 1/2"	8" x 8" x 3/4"	8" x 8" x 3/4"	8" x 8" x 3/4"
1st top cover pl. full length	18" x 1/16"	18" x 3/8"	18" x 1/16"
1st bottom cover pl.	18" x 1/16" x 68'-0"	18" x 3/8" x 67'-0"	18" x 1/16" x 70'-0"
2nd cover pl., top & bottom	18" x 1/16" x 58'-6"	18" x 3/8" x 57'-0"	18" x 1/16" x 58'-6"
3rd cover pl., top & bottom	18" x 3/8" x 42'-0"	18" x 3/8" x 42'-0"	18" x 3/8" x 42'-0"
End stiff angles, 4 1/2" filled	6" x 4" x 1/16"	6" x 4" x 3/8"	6" x 4" x 1/16"

DESIGN OF FLOOR BEAMS

FLOOR BEAM	FB1	FB2	FB3	FB4
MOMENT (In Ft. Kips)				
Dead Load	137	121	159	49
Live Load (H20-33 wheel loads)	285	222	222	93
Impact	91	74	74	33
Total Moment	513	417	455	175
Section Modulus required (Net or Gross)	342	278	304	117
Section Modulus provided	355	299	328	119
SHEAR (In Kips)				
Dead Load	23.2	30.2	25.3	14.1
Sidewalk L.L. (100 lb./s.f.)	1.0	1.8	—	—
Live Load (H20-33 wheel loads)	39.3	39.3	39.3	30.0
Impact	12.5	12.1	12.1	10.7
Total Shear	76.0	84.4	77.7	54.8
Web area required	6.4	7.1	6.5	4.6
Web area provided	17.6	16.4	16.9	8.2
BEAM SIZE				
	30" WF 124	30" WF 106	30" WF 116	21" WF 99

GENERAL NOTES

SPECIFICATIONS: Design to be in accordance with the Ohio Department of Highways Specifications for Design of Highway Structures dated September, 1933.

MATERIAL, FABRICATION, ERECTION AND PAINTING: to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.

DEAD LOAD: The assumed dead load contains an allowance of 25 lbs. per sq. ft. of roadway for future wearing surface.

LIVE LOAD: H-20-33 at 18,000 lbs. per sq. inch basic unit stress.

RIVETS: 7/8"

ANCHOR BOLTS: Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.

BEARING AREAS: To be dressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.

PLAN

All dimensions are taken in plane of floor except those marked "Hor" which are taken horizontally.

GI - 92'-1 1/2"
 G2 - 92'-11 1/2" -> o-o girder
 G3 - 93'-1 1/2"

GI - 90'-0 1/2"
 G2 - 80'-6 1/2"
 G3 - 91'-3 1/2"

GI - 20'-5 1/2"
 G2 - 30'-5 1/2" "Hor" c.c. bearings
 G3 - 31'-2 1/2"

Max. flange rivet pitch, 5"
 Crown of Roadway, average grade + 2.48%

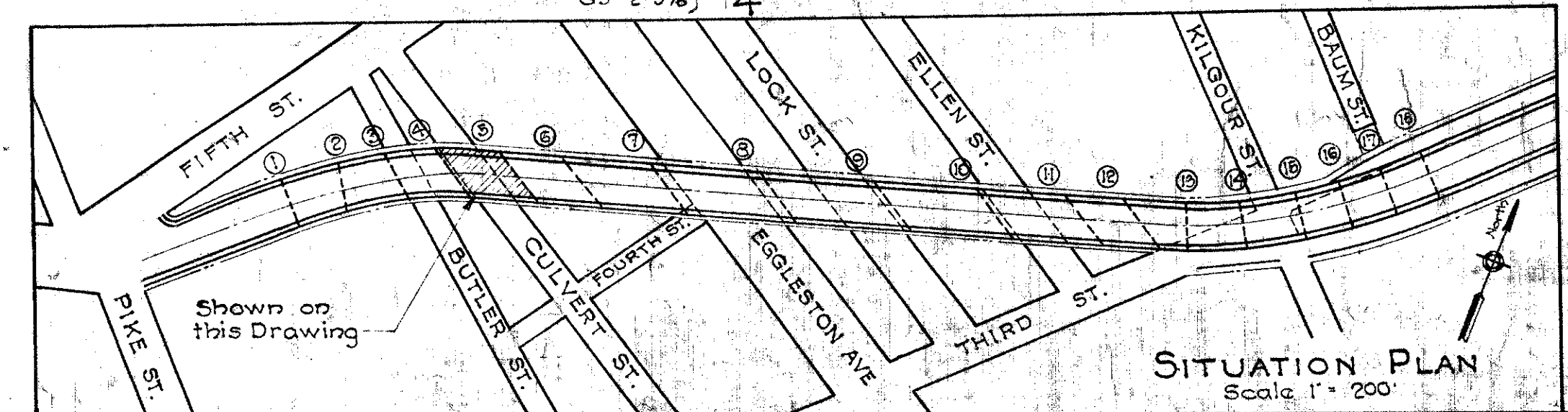
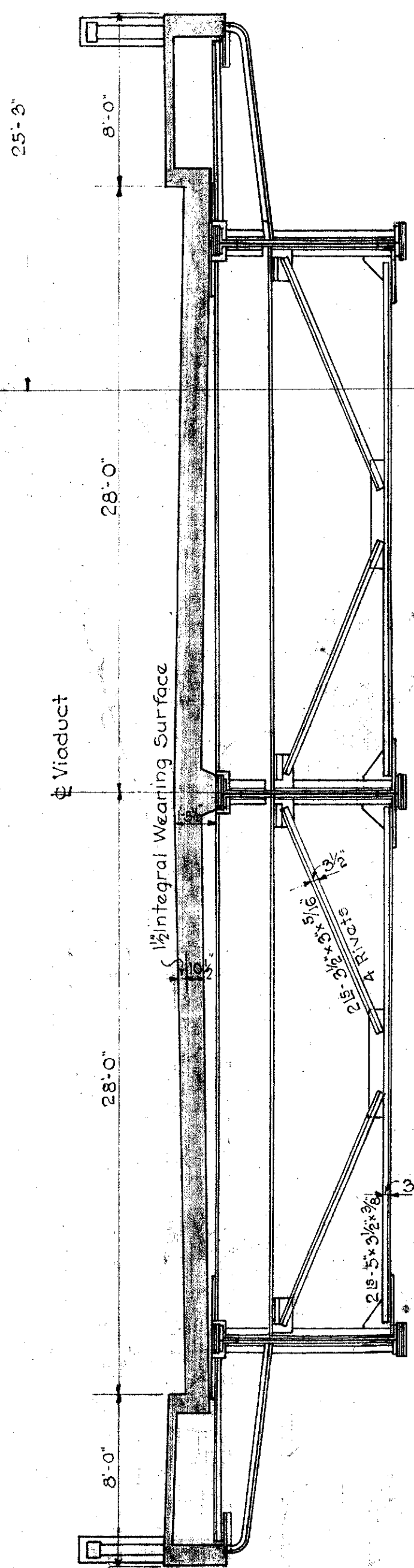
ELEVATION OF G3
 G1 & G2 SIMILAR EXCEPT AS SHOWN & NOTED

Intermediate Stiffeners -
 At Floor Beams & Bracket Connections - 6" x 4" x 1/2" Filled.
 Others 6" x 4" x 3/8" - Crimped.

ESTIMATED WEIGHT OF STEEL 283,900 LBS.

ISSUE NO.	REVISIONS	DATE	SIG.	SIG.

SECTION
 Scale 3/16" = 1'-0"



CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE

SPAN 4-5
STRESS SHEET

SCALE: 3/16" = 1'-0" AUGUST 1, 1936 ISSUE: 1

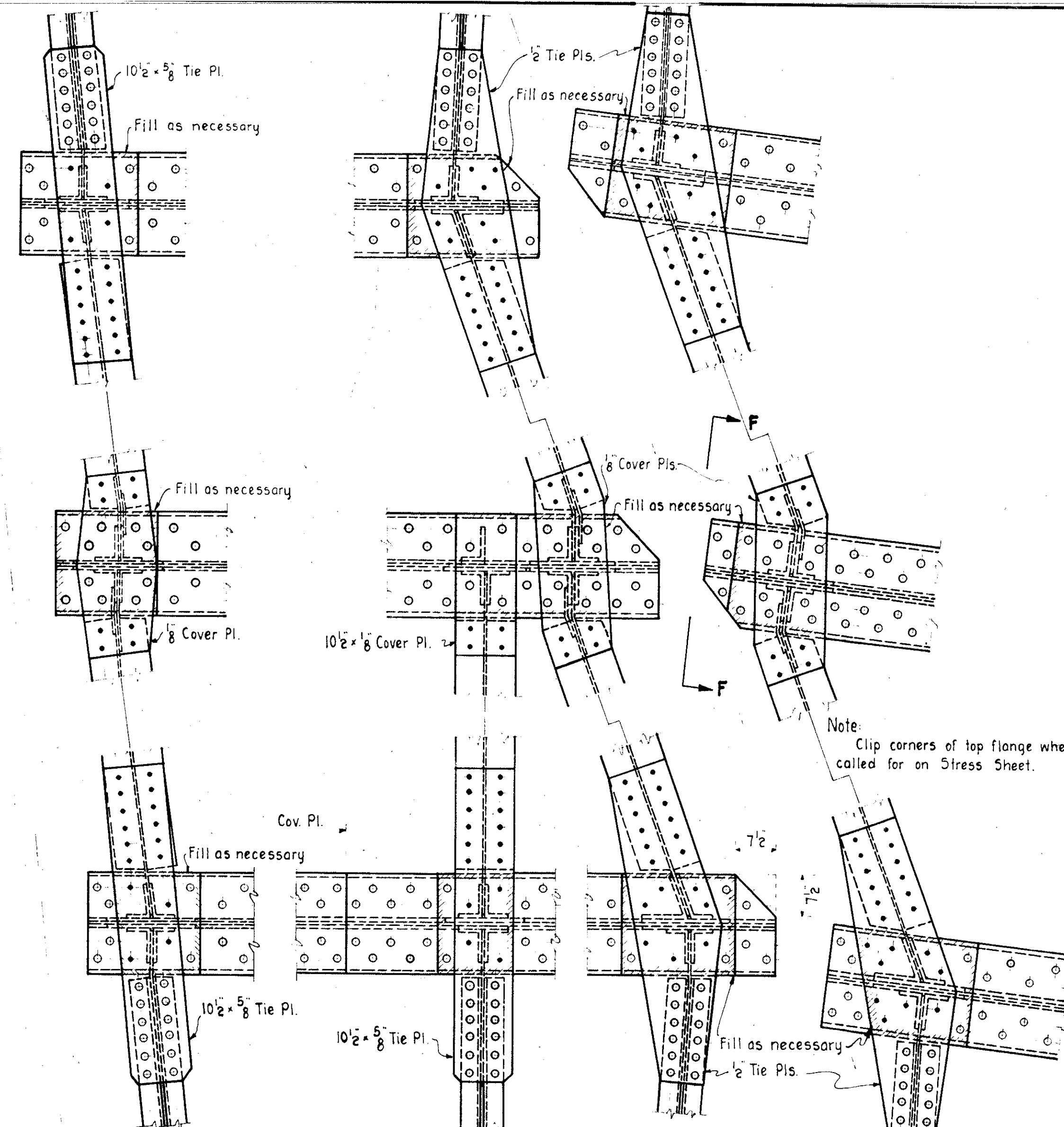
SUBMITTED: *Passy* SPECIAL ENGINEER APPROVED: *W. J. ...* ENGINEER OF HIGHWAYS

APPROVED: *...* DIRECTOR OF PUBLIC WORKS APPROVED: *...* CITY MANAGER

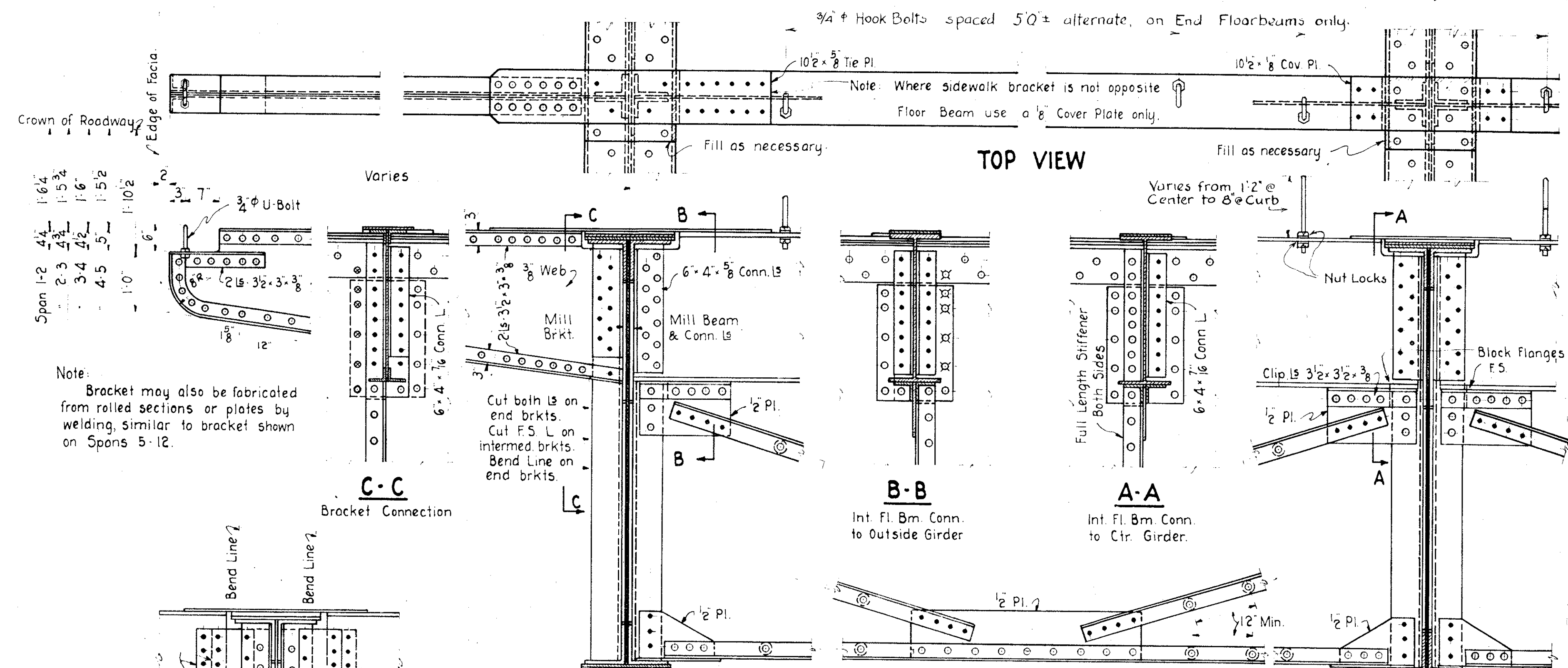
ACC. NO. 5139
 PRINT MADE

3/4" Hook Bolts spaced 50" ± alternate, on End Floorbeams only.

Note: Where sidewalk bracket is not opposite Floor Beam use a 1/8" Cover Plate only.

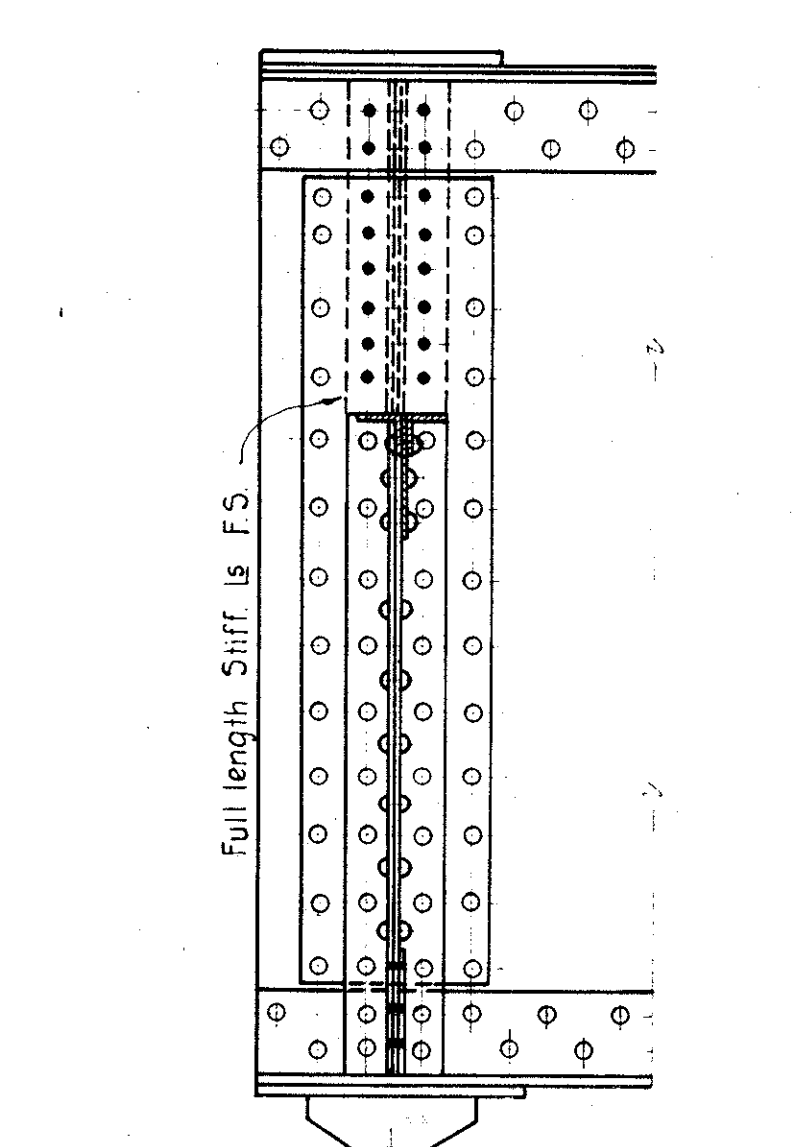


TYPICAL DETAILS TOP FLANGE

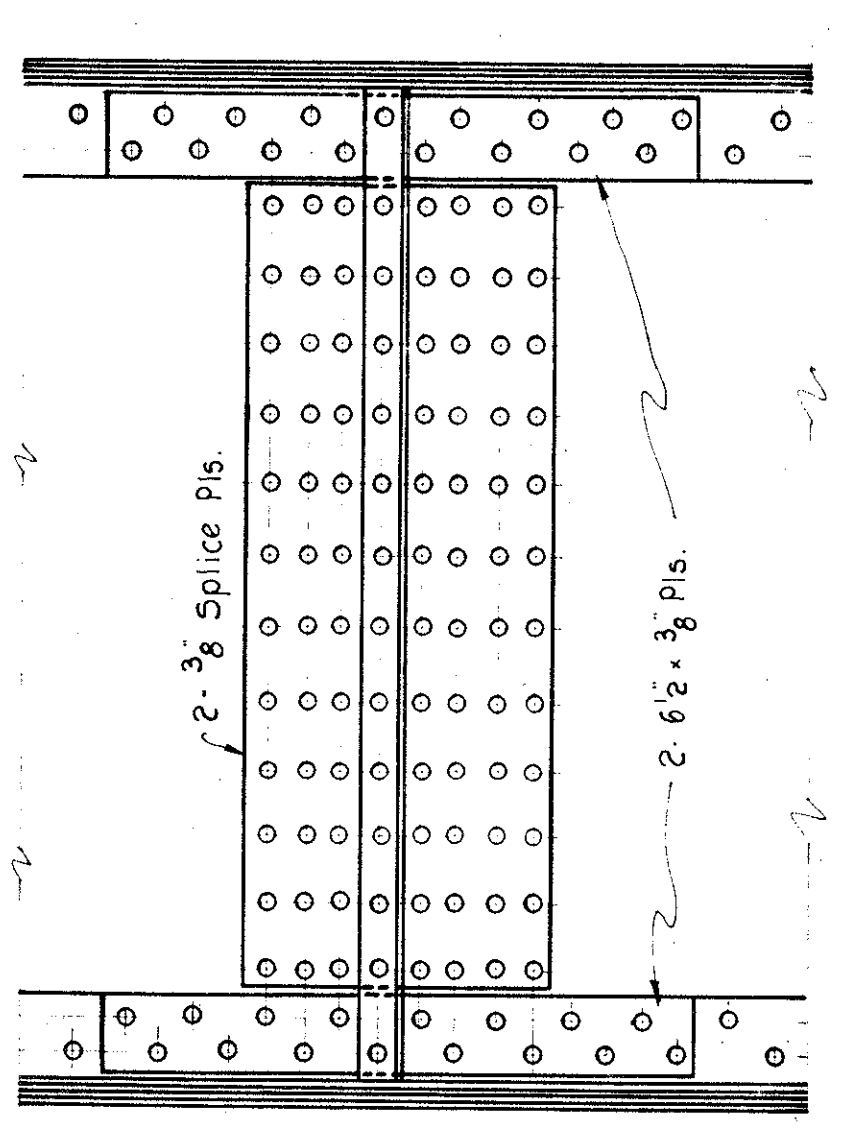


TYPICAL CROSS SECTION

Spans 1-2 & 2-3
Spans 3-4 & 4-5 Similar

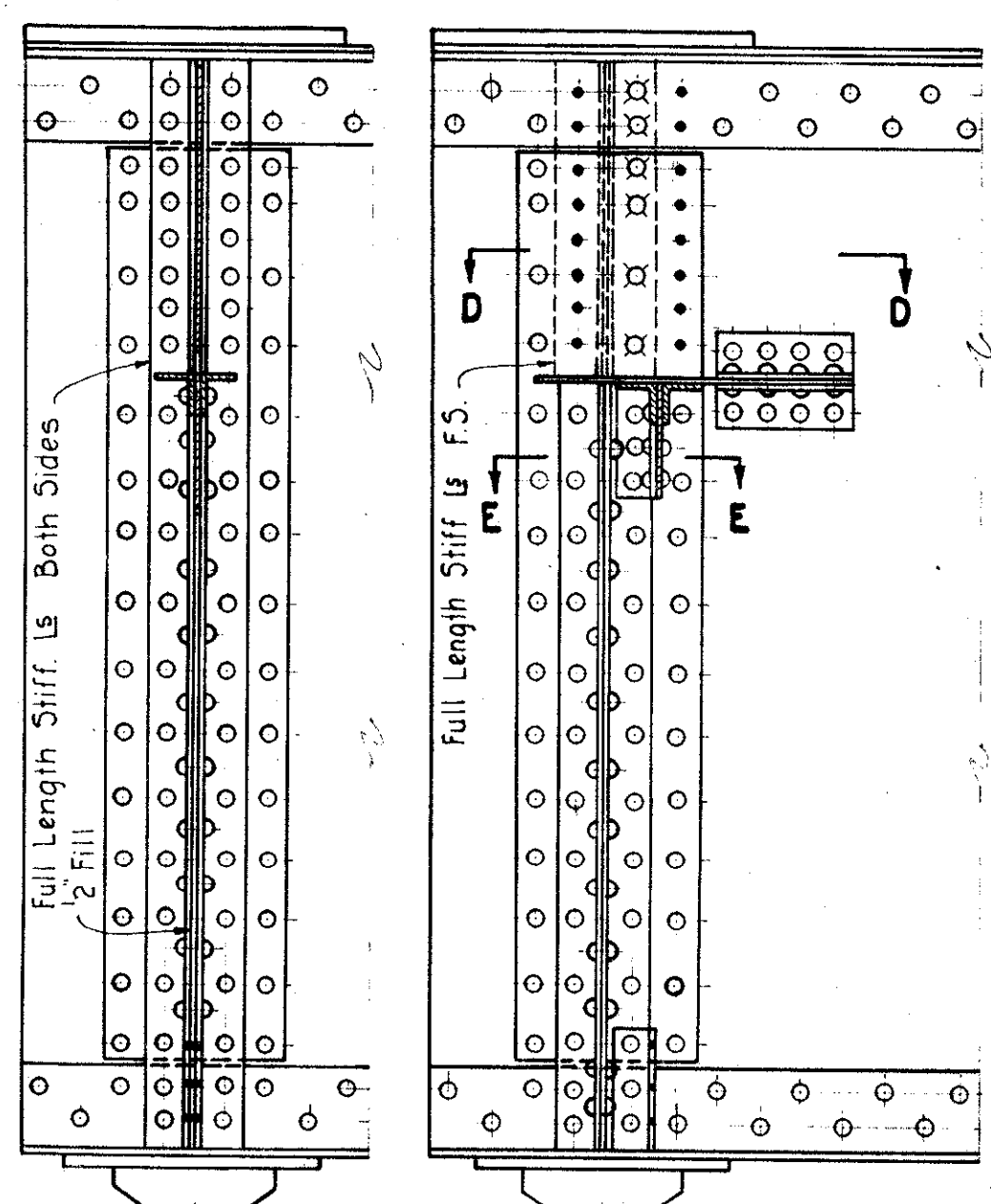


END DETAILS - OUTSIDE GIRDER



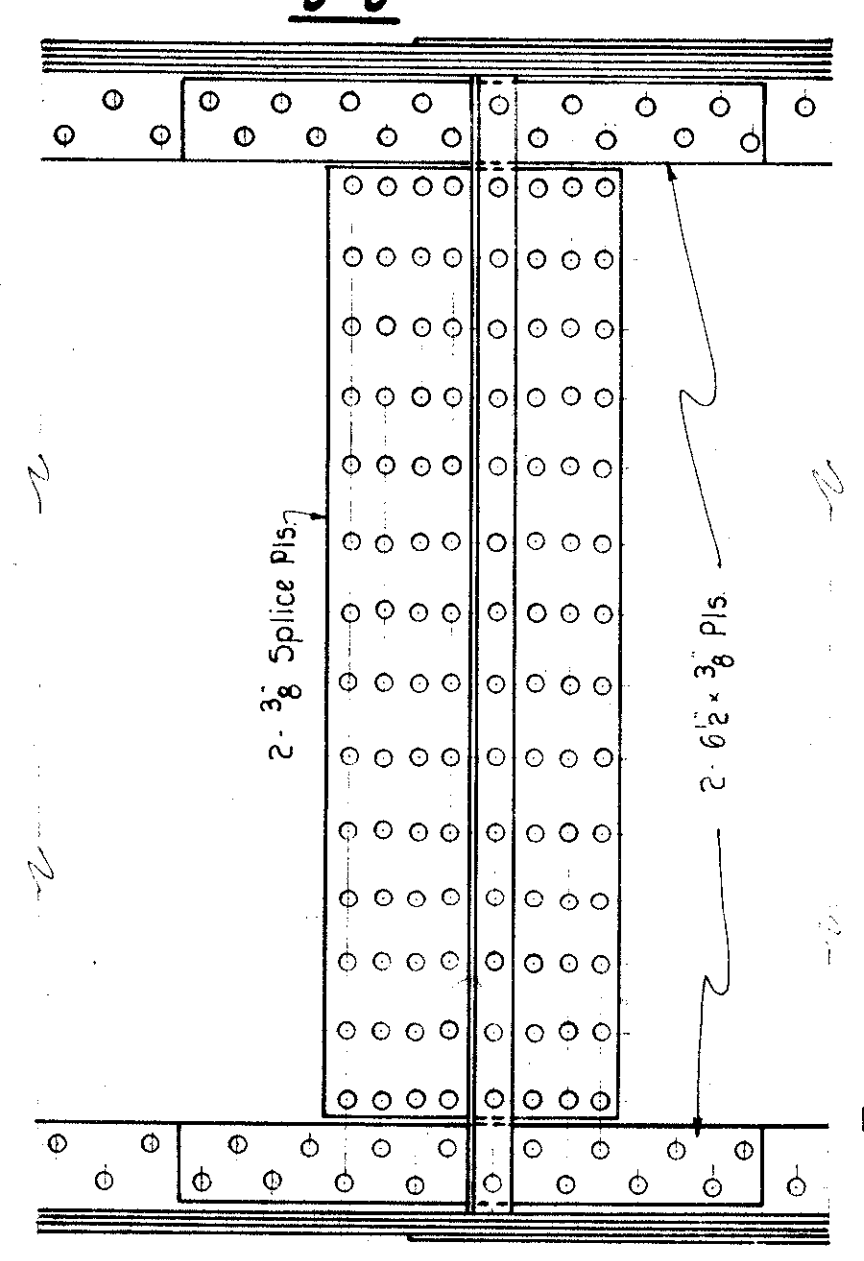
WEB SPLICE

SPANS 1-2 & 2-3



INSIDE GIRDER OUTSIDE GIRDER

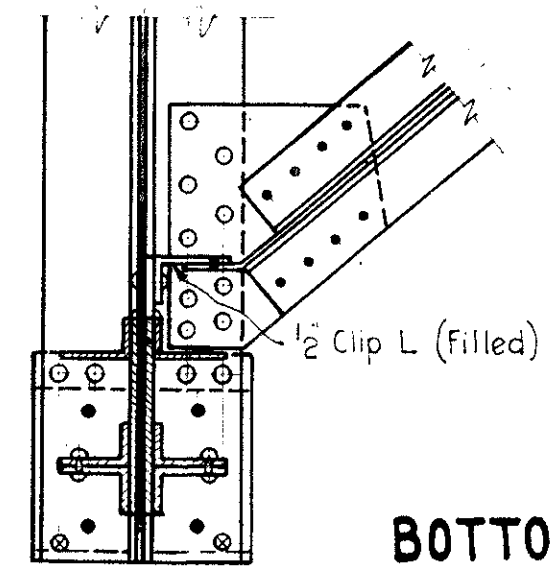
END DETAIL - SPANS 3-4 & 4-5



WEB SPLICE

SPANS 3-4 & 4-5

EAST END OF G 3
SPAN 4-5



BOTTOM LATERAL DETAILS

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPANS 1-2 TO 4-5
DETAILS

SCALE: 3/4" = 1'-0"
AUGUST 1, 1936
ISSUE: 1
SUBMITTED: [Signature]
SPECIAL ENGINEER
APPROVED: [Signature]
ENGINEER IN CHARGE
APPROVED: [Signature]
DIRECTOR OF PUBLIC WORKS
APPROVED: [Signature]
CITY MANAGER

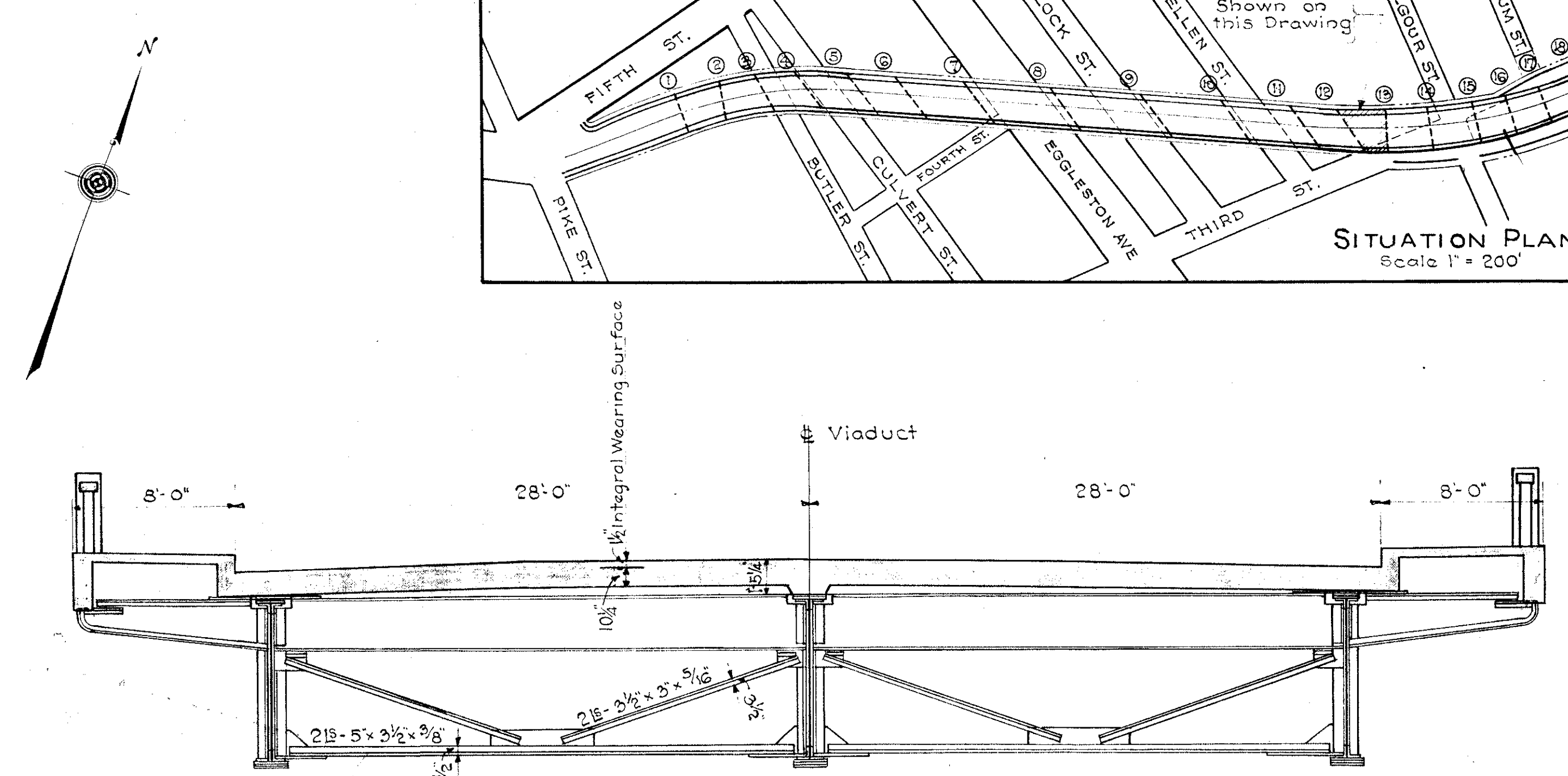
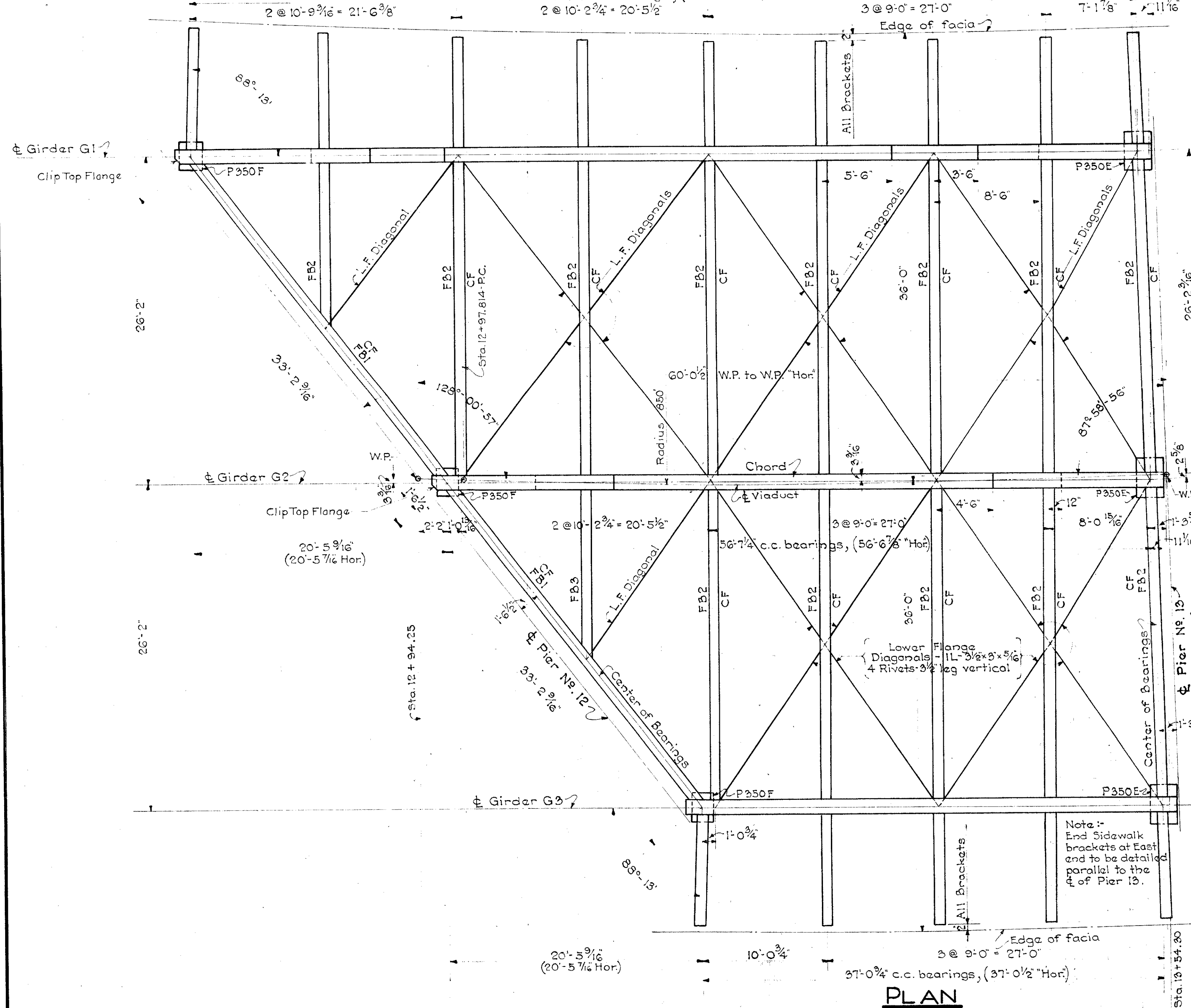
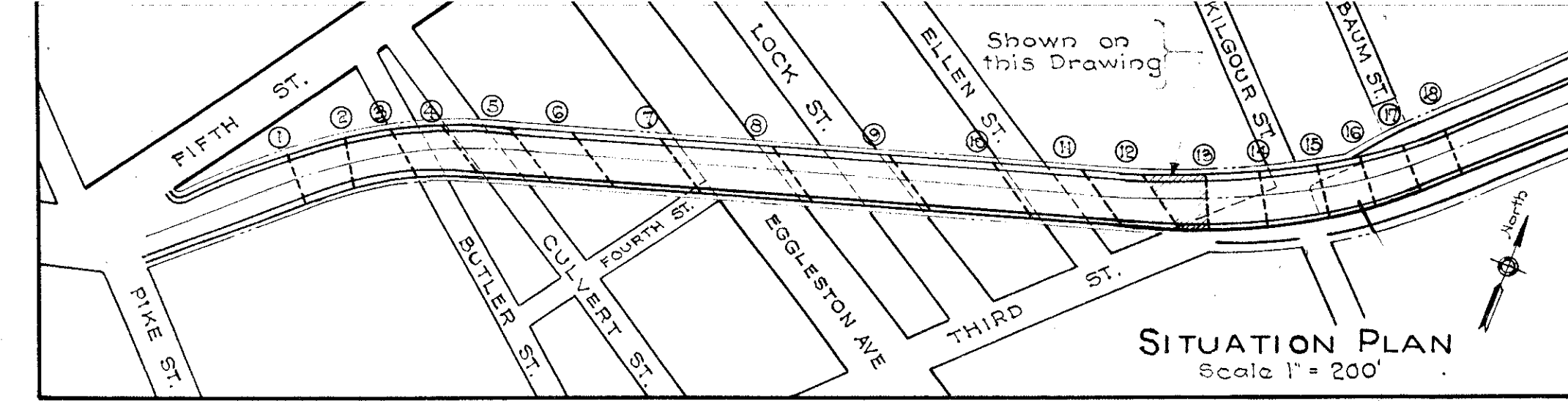
ISSUE NO.	REVISION	DATE	SIG.	SIG.

ACC. NO. 5140

PRINT MADE 16-10-6

E.B.S.
R.A.V.
T.P.Y.
W.J.S.

[Handwritten signature]



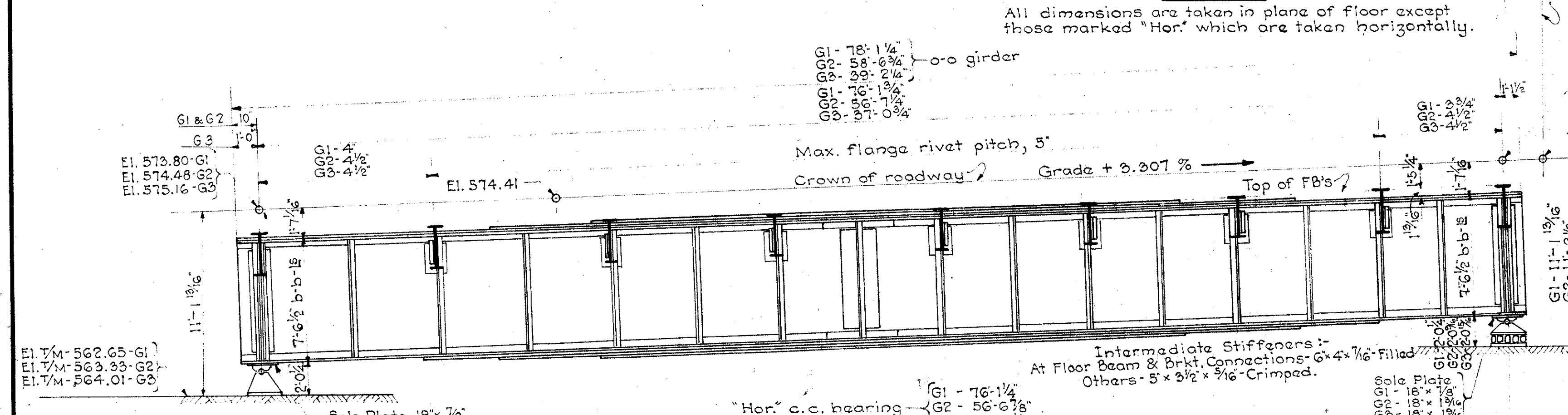
SECTION
Scale 3/16" = 1'-0"

DESIGN OF GIRDERS

GIRDER	G1	G2	G3
Assumed D.L. of concrete, etc. (Average)	4510	4610	4680
Assumed weight of girder	480	370	390
Total D.L. per lin. ft. of girder	4990	4980	5010
MOMENT (In Ft. Kips)			
Dead Load	3442	1906	819
Sidewalk L.L. (60 lb./s.f.)	337	80	80
Uniform L.L. (H20-33)	543	431	138
Concentrated L.L. (H20-33)	736	776	370
Impact	317	332	157
Total Moment	5375	3445	1564
Net flange area required, (Sq. in.)	$\frac{5375 \times 12}{90.18 \times 18} = 39.70$	$\frac{3445 \times 12}{89.52 \times 18} = 25.65$	$\frac{1564 \times 12}{87.14 \times 18} = 11.95$
Net flange area provided, (Sq. in.)	39.90	26.02	15.32
SHEAR (In Kips)			
Dead Load	168	117	88
Sidewalk L.L. (60 lb./s.f.)	16	6	6
Uniform L.L. (H20-33)	26	27	16
Concentrated L.L. (H20-33)	36	47	37
Impact	15	20	17
Total Shear	261	211	164
Web area required, sq. in.	21.8	17.6	13.7
Web area provided, sq. in.	39.4	39.4	39.4

DESIGN OF FLOOR BEAMS

FLOOR BEAM	FB1	FB2	FB3
MOMENT			
Dead Load	123	125	35
Live Load (H20-33, wheel loads)	298	234	82
Impact	94	77	30
Total Moment	525	436	147
Section Modulus Required, (Net or Gross)	350	291	98
Section Modulus Provided	354	299	98
SHEAR			
Dead Load	18.8	27.7	10.0
Sidewalk L.L. (100 lb./s.f.)	0.9	1.3	—
Live Load (H20-33, wheel loads)	40.0	40.0	29.0
Impact	12.6	16.2	10.5
Total Shear	72.3	82.2	49.5
Web area required	6.0	6.9	4.1
Web area provided	17.6	16.4	7.0
BEAM SIZE	30" x 12" WF @ 124* 30" x 10" WF @ 108* 18" WF @ 55*		



ELEVATION OF G1
G2 & G3 SIMILAR EXCEPT AS SHOWN & NOTED

SECTION OF GIRDER

Web	90" x 7/16"	90" x 7/16"	90" x 7/16"
Flange angles - 4 Ls.	6" x 6" x 3/4"	6" x 6" x 1/2"	6" x 6" x 1/2"
1st. top cover pl. full length.	14" x 3/8"	14" x 1/2"	14" x 3/8"
1st. bottom cover pl.	14" x 3/8" x 58'-6"	14" x 1/2" x 42'-0"	14" x 3/8" x 30'-6"
2nd. cover pl., top & bottom.	14" x 3/8" x 49'-0"	14" x 1/2" x 30'-6"	—
3rd. cover pl., top & bottom.	14" x 3/8" x 36'-0"	—	—
End stiffener angles, 4 Ls. filled.	6" x 4" x 3/8"	6" x 4" x 1/2"	6" x 4" x 7/16"

GENERAL NOTES

SPECIFICATIONS:- Design to be in accordance with the Ohio Department of Highways "Specifications for Design of Highway Structures" dated September, 1933. Material, Fabrication, Erection and Painting to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.

DEAD LOAD:- The assumed dead load contains an allowance of 25 lbs. per sq. ft. of roadway for future wearing surface.

LIVE LOAD:- H-20; 33 of 18,000 lbs. per sq. inch basic unit stress. RIVETS:- 7/8"

ANCHOR BOLTS:- Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.

BEARING AREAS:- To be dressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.

ESTIMATED WEIGHT OF STEEL 103,400 LBS.

ISSUE	REVISIONS	DATE	SIG.	SIG.

COLUMBIA AVENUE VIADUCT
OVER EGLESTON AVENUE

SPAN 12-13
STRESS SHEET

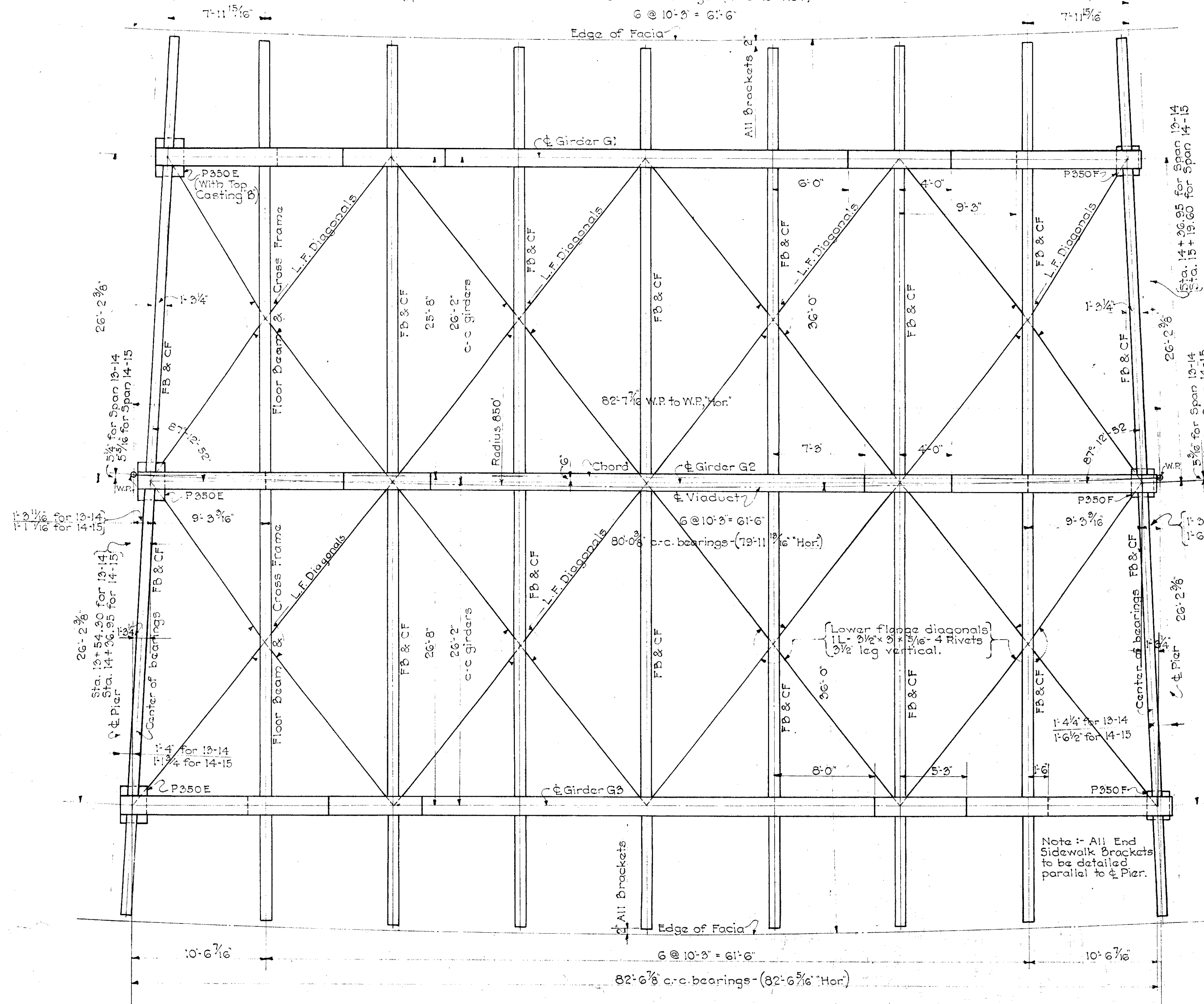
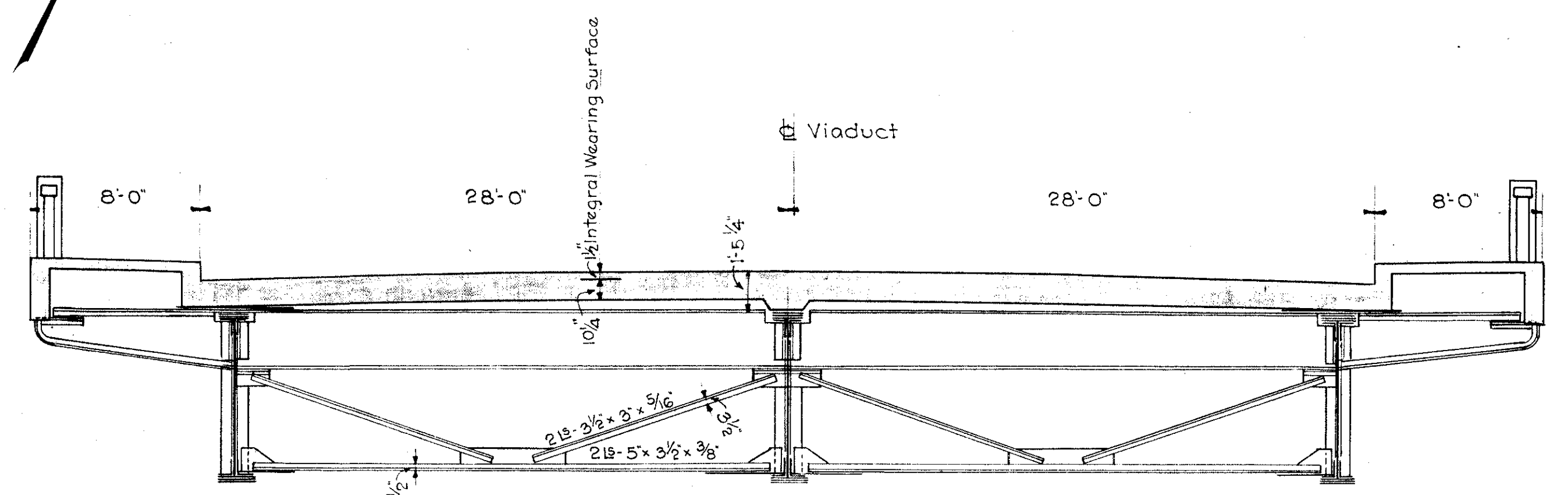
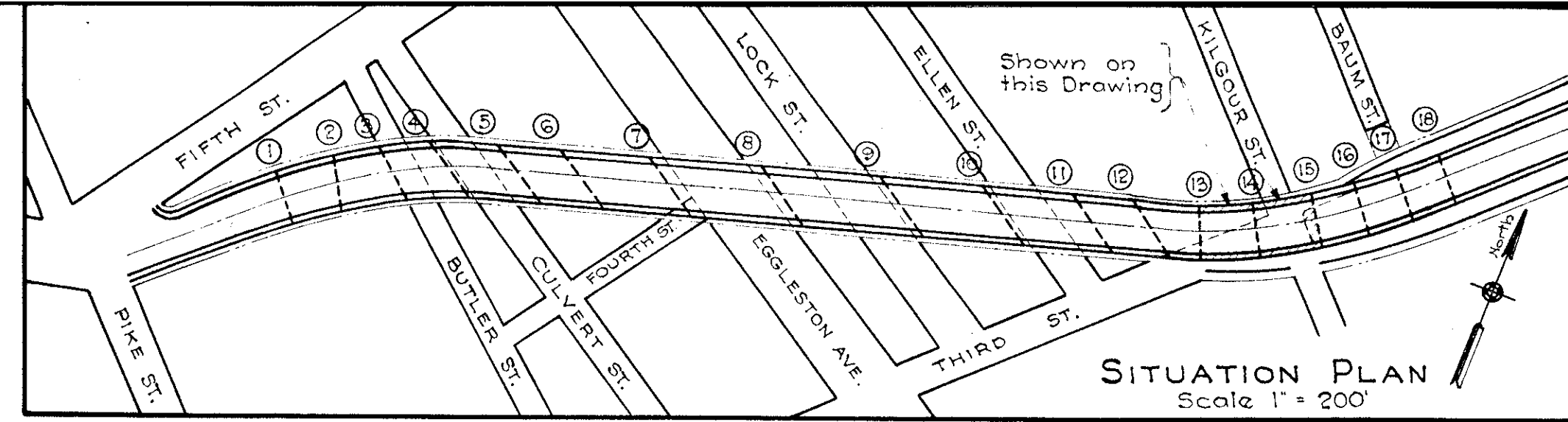
SCALE: 3/16" = 1'-0" AUGUST 1, 1936 ISSUE: 1

SUBMITTED: [Signature] SPECIAL ENGINEER APPROVED: [Signature] CHIEF ENGINEER
APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS APPROVED: [Signature] CITY MANAGER

ACC. NO. 5152
PRINT MADE

16-10-18

DESIGNED BY: W.J.I.
CHECKED BY: W.J.I.
DRAWN BY: E.B.S.
APPROVED BY: A.R.



DESIGN OF GIRDERS

GIRDER	G1	G2	G3
Assumed D.L. of concrete, etc. (Average)	4500	4550	4500
Assumed Weight of girder	510	550	560
Total D.L. per lin. ft. of girder	5010	5100	5150
MOMENT (In Ft. Kips)			
Dead Load	3700	3950	4350
Sidewalk L.L. (60 lb./s.f.)	345	402	402
Uniform L.L. (H20-33)	584	687	689
Concentrated L.L. (H20-33)	746	1108	840
Impact	229	487	268
Total Moment	5704	6422	6649
Net flange area required (Sq.in.)	5704 x 12 / 89.42 x 18 = 42.60	6422 x 12 / 89.32 x 18 = 48.10	6649 x 12 / 89.50 x 18 = 49.50
Net flange area provided (Sq.in.)	43.22	48.26	50.24
SHEAR (In Kips)			
Dead Load	172	177	183
Sidewalk L.L. (60 lb./s.f.)	16	17	17
Uniform L.L. (H20-33)	27	39	29
Concentrated L.L. (H20-33)	36	49	35
Impact	16	22	15
Total Shear	267	287	279
Web area required, sq.in.	22.3	23.9	23.3
Web area provided, sq.in.	39.4	39.4	39.4

DESIGN OF FLOOR BEAMS

MOMENT (In Ft. Kips)	
Dead Load	128
Live Load (H20-33, wheel loads)	234
Impact	77
Total Moment	439
Section Modulus Required (Net or Gross)	293
Section Modulus Provided	299
SHEAR (In Kips)	
Dead Load	28.4
Sidewalk L.L. (100 lb./s.f.)	1.3
Live Load (H20-33, wheel loads)	39.9
Impact	13.2
Total Shear	82.8
Web area required	6.9
Web area provided	16.4
BEAM SIZE	20" x 10 1/2" WF @ 108*

SECTION OF GIRDER

Web	Flange angles - 4 Ls.	1st top cover plate, full length.	1st bottom cover plate.	2nd cover plate, top & bottom.	2nd cover plate, top & bottom.	End stiffener angles, 4 Ls filled.
90" x 7 1/2"	8" x 8" x 3/8"	18" x 1/2"	18" x 1/2" x 59'-6"	18" x 1/2" x 49'-0"	18" x 1/2" x 22'-6"	6" x 4" x 3/8"
30" x 7 1/2"	8" x 8" x 3/4"	18" x 1/2"	18" x 1/2" x 61'-6"	18" x 1/2" x 49'-0"	18" x 1/2" x 35'-0"	6" x 4" x 3/8"
90" x 7 1/2"	8" x 8" x 3/4"	18" x 1/2"	18" x 1/2" x 64'-6"	18" x 1/2" x 51'-6"	18" x 1/2" x 30'-6"	6" x 4" x 3/8"

GENERAL NOTES

SPECIFICATIONS: Design to be in accordance with the Ohio Department of Highways "Specifications for Design of Highway Structures" dated September, 1933. Material, Fabrication, Erection and Painting to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.

DEAD LOAD: The assumed dead load contains an allowance of 25 lbs. per sq. ft. of roadway for future wearing surface.

LIVE LOAD: H20-33 at 18000 lbs. per sq. inch basic unit stress.

RIVETS: 7/8"

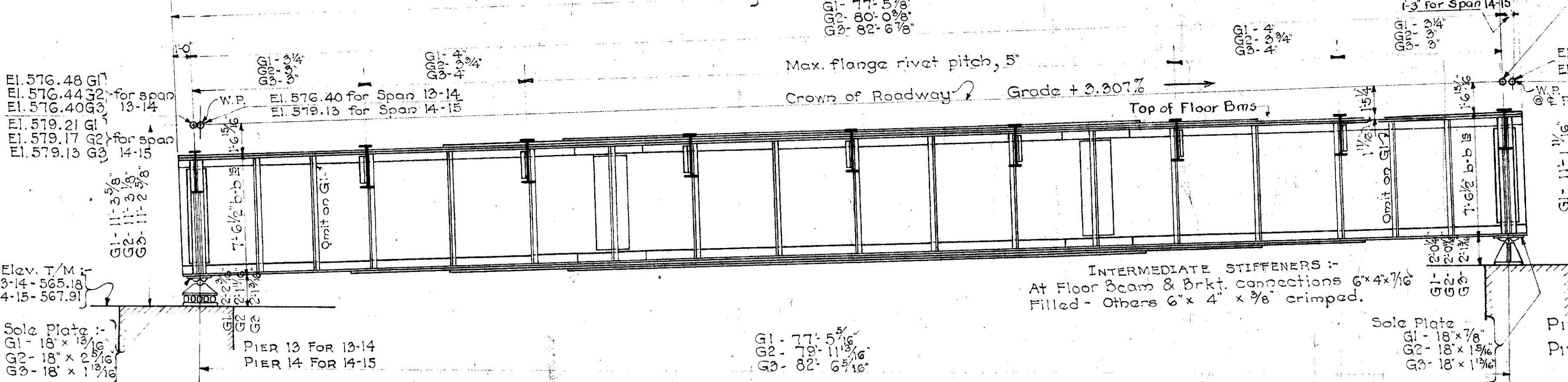
ANCHOR BOLTS: Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.

BEARING AREAS: To be dressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.

PLAN
All dimensions are taken in plane of floor except those marked "Hor." which are taken horizontally.

G1 - 78'-5 1/8"
G2 - 82'-0 3/8"
G3 - 84'-6 1/8"
o-o girders for span 13-14

G1 - 78'-5 1/8"
G2 - 82'-0 3/8"
G3 - 84'-6 1/8"
o-o girders for span 14-15



ELEVATION OF G3
G1 & G2 SIMILAR EXCEPT AS SHOWN AND NOTED.

ESTIMATED WEIGHT OF STEEL 413000 LBS.

ISSUE	REVISIONS	DATE	SIG.	SIG.

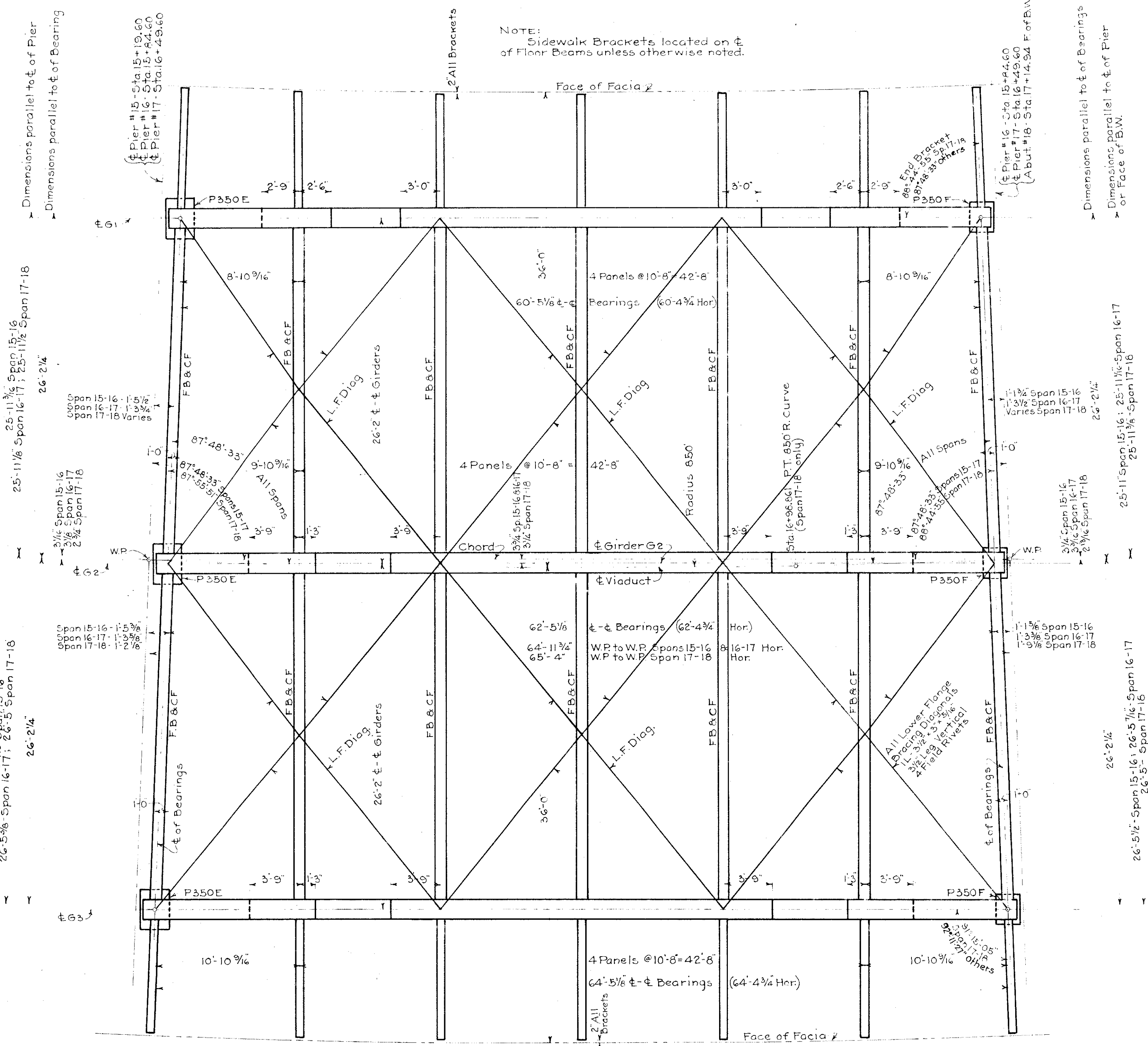
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPAN 13-14 & 14-15
STRESS SHEET

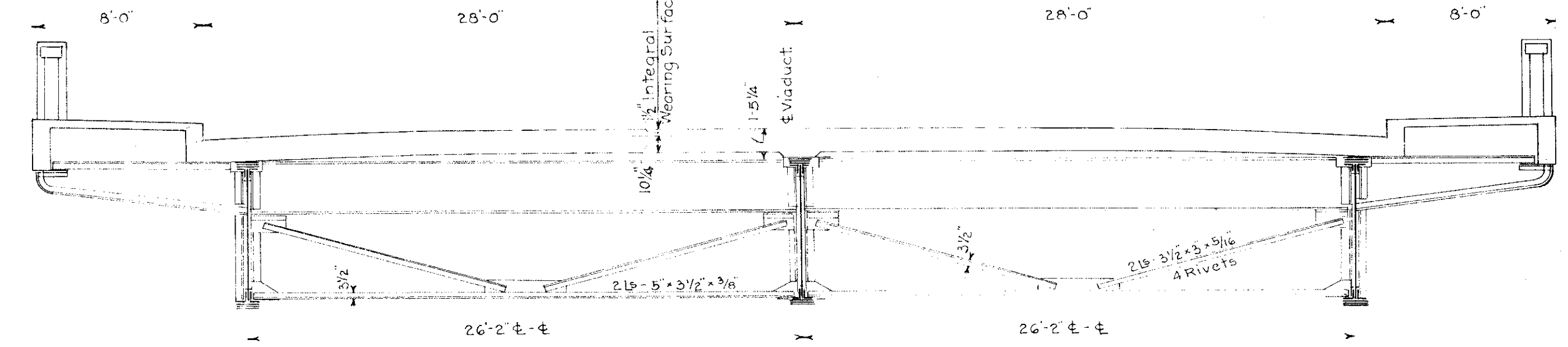
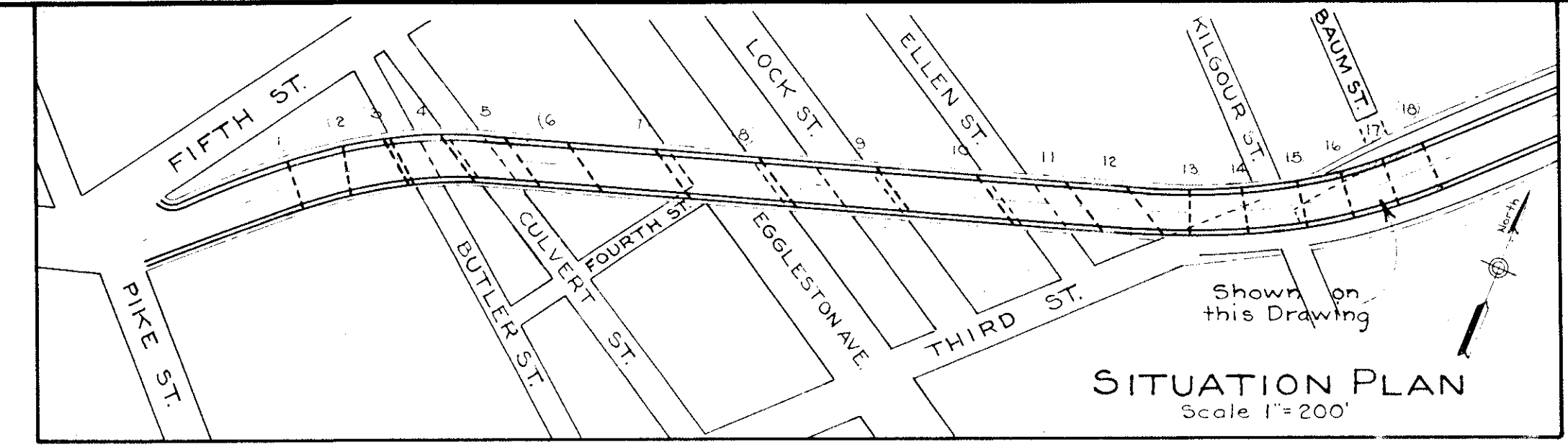
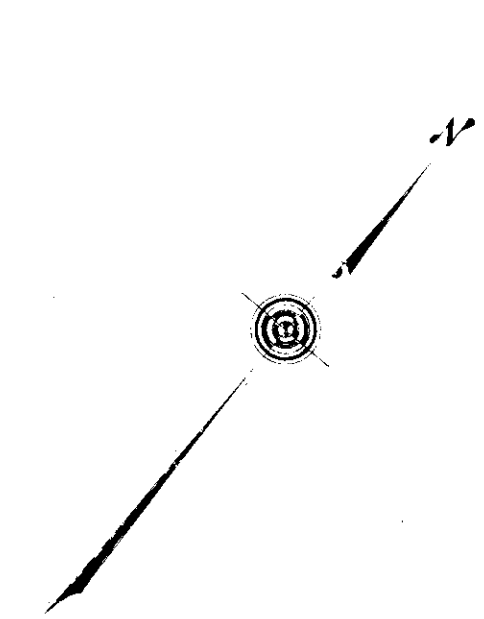
SCALE: 3/16" = 1'-0" AUGUST 11, 1936

SUBMITTED: [Signature] APPROVED: [Signature]
DIRECTOR OF PUBLIC WORKS CITY MANAGER

ACC. NO. 5153
PRINT MADE



PLAN



DESIGN OF FLOOR BEAMS

MOMENT IN FT. KIPS

Dead Load	12.9
Live Load (H20-33 Wheel Loads)	235.
Impact	7.8
TOTAL	442.

Section Modulus Req'd - Net or Gross 295
Section Modulus Provided 299

SHEAR IN KIPS

Dead Load	30.6
Sidewalk Live Load @ 100 ² /sq. ft.	1.4
Live Load (H20-33 Wheel Loads)	40.0
Impact	13.0
TOTAL	85.0

Web Area Required - 5q. in. 7.1
Web Area Provided - 5q. in. 16.3

BEAM SIZE 30" W' @ 108"

DESIGN OF GIRDERS

GIRDER	G1	G2	G3
Assumed D.L. of Concrete, etc. (Average)	4.475	4.550	4.475
Assumed Weight of Girder (Average)	400	415	415
Total assumed Wt. per L.F. Gir. (Average)	4.875	4.965	4.890
MOMENT IN FT. KIPS			
Dead Load	2.263	2.364	2.584
Sidewalk L.L., 60 ² /sq. ft.	2.24	—	2.65
Uniform L.L. (H20-33)	3.35	5.34	4.11
Concentrated L.L. (H20-33)	6.05	8.54	6.20
Impact	2.53	3.70	2.75
TOTAL	3.683	4.122	4.165
Net Flange Area Req'd.	36.6 x 12 = 31.6"	41.2 x 12 = 35.1"	41.6 x 12 = 35.5"
Net Flange Area Provided	32.0"	35.8"	35.8"
SHEAR IN KIPS			
Dead Load	131	130	135
Sidewalk L.L., 60 ² /sq. ft.	21	—	13
Uniform L.L. (H20-33)	34	48	32
Concentrated L.L. (H20-33)	15	21	14
Impact	—	—	—
TOTAL	214	229	215
Web Area Required - 5q. in.	17.9	19.1	17.9
Web Area Provided - 5q. in.	34.1	34.1	34.1

DIMENSION	SPAN 15-16			SPAN 16-17			SPAN 17-18		
	G1	G2	G3	G1	G2	G3	G1	G2	G3
A	1'-3"	1'-3"	1'-3"	11 1/2'	11 1/2'	11 1/2'	1'-0 1/2"	11 1/2'	11 1/2'
B	11 1/2'	11 1/2'	11 1/2'	11 1/2'	11 1/2'	11 1/2'	1'-10"	1'-4"	11 1/2'
C	62'-7 3/8"	64'-7 3/8"	66'-7 3/8"	62'-4 1/8"	64'-4 1/8"	66'-4 1/8"	63'-3 3/8"	64'-8 3/8"	66'-4 1/8"
ELEV. "X"	581.94	581.91	581.88	584.08	584.05	584.02	586.17	586.14	586.11
ELEV. "Y"	583.84	583.97	584.00	586.04	586.07	586.10	587.97	588.00	588.03
WEST SOLE PL.	1 3/8"	1 1/2"	1 3/8"	2 3/8"	2 3/8"	1 3/8"	2 1/2"	2 1/2"	1 3/8"
EAST SOLE PL.	7/8"	1 1/4"	1 3/8"	7/8"	1 1/4"	1 3/8"	7/8"	1 1/4"	1 3/8"
W. Top Sole Pl. to Mgs.	2'-0 3/4"	2'-0 3/4"	2'-0 3/4"	2'-1 1/4"	2'-1 1/4"	2'-1 1/4"	2'-1 1/4"	2'-1 1/4"	2'-1 1/4"
Z. Crown Road to Mgs.	10'-2 1/2"	10'-2 1/2"	10'-1 1/4"	10'-3 3/8"	10'-3"	10'-2 3/8"	10'-3 1/4"	10'-2 3/8"	10'-2 1/2"
E. Top Sole Pl. to Mgs.	2'-0 3/4"	2'-0 3/4"	2'-0 3/4"	2'-0 3/4"	2'-0 3/4"	2'-0 3/4"	2'-0 3/4"	2'-0 3/4"	2'-0 3/4"
D. Crown Road to Mgs.	10'-1 1/4"	10'-2 1/2"	10'-2 3/8"	10'-1 1/4"	10'-2 1/2"	10'-2 3/8"	10'-1 1/4"	10'-2 1/2"	10'-2 3/8"

SECTION OF GIRDERS

Web	G1	G2	G3
Flange Angles - 4 lb.	7 1/2" x 7 1/2"	7 1/2" x 7 1/2"	7 1/2" x 7 1/2"
1 st Top Cover Plate - Full Length.	6" x 4" x 5/8"	6" x 4" x 5/8"	6" x 4" x 5/8"
1 st Bottom Cover Plate	14" x 1/2" x 48" 2'	14" x 1/2" x 50" 2'	14" x 1/2" x 40" 2'
2 nd Cover Plate - Top & Bottom.	14" x 7/8" x 37" 8"	14" x 7/8" x 40" 2'	14" x 7/8" x 40" 2'
3 rd Cover Plate - Top & Bottom.	14" x 7/8" x 27" 4"	14" x 7/8" x 28" 10"	14" x 7/8" x 28" 10"
End Stiffeners - 4 lb Filled	6" x 4" x 3/4"	6" x 4" x 3/4"	6" x 4" x 3/4"

GENERAL NOTES

SPECIFICATIONS: Design to be in accordance with the Ohio Department of Highways' Specifications for Design of Highway Structures, dated September, 1933. Material, Fabrication, Erection and Painting to be in accordance with the Special Specifications for the Columbia Ave. Viaduct.

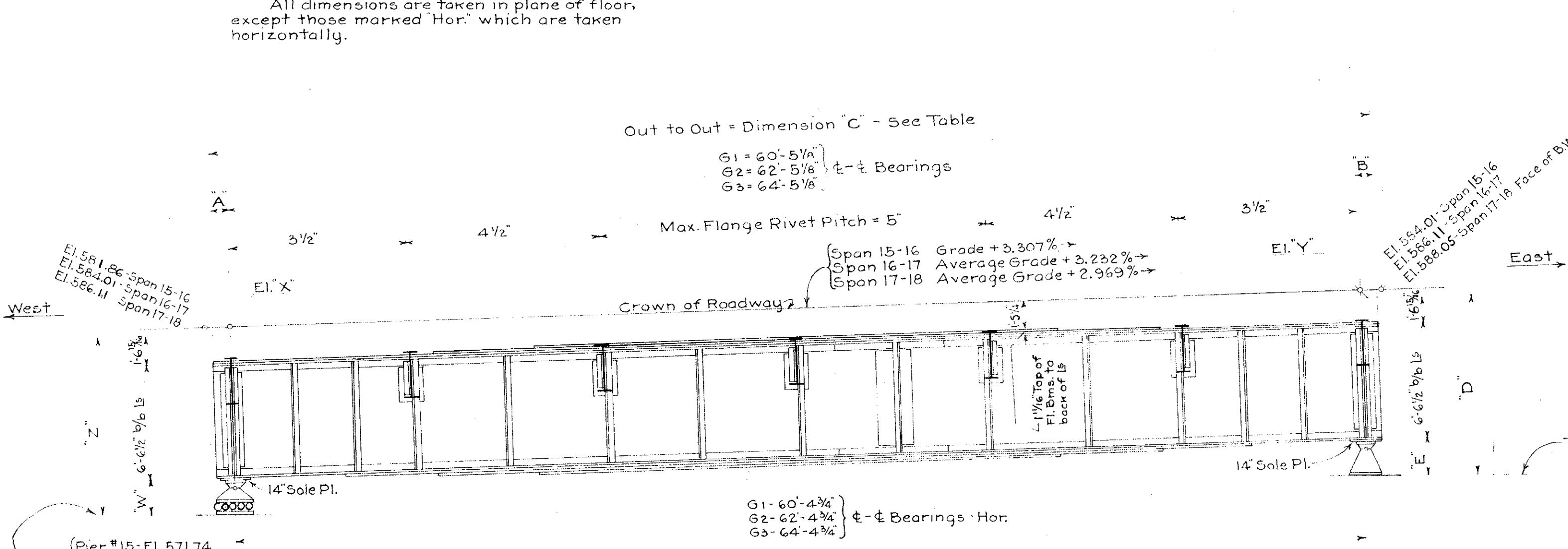
DEAD LOAD: The assumed dead load contains an allowance of 25 lbs. per sq. ft. of roadway for future wearing surface.

LIVE LOAD: H20-33 at 18,000 lbs. per sq. inch basic unit stress.

RIVETS: - 7/8"

ANCHOR BOLTS: Contractor shall drill the anchor bolt holes in the masonry and furnish and set the bolts in cement grout.

BEARING AREAS: To be dressed down by the Contractor to the elevations called for. Masonry plates and pedestals to be set on sheet lead or red lead and canvas.



ESTIMATED WEIGHT OF STEEL

ISSUE	REVISION	DATE	Sig.	Sig.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

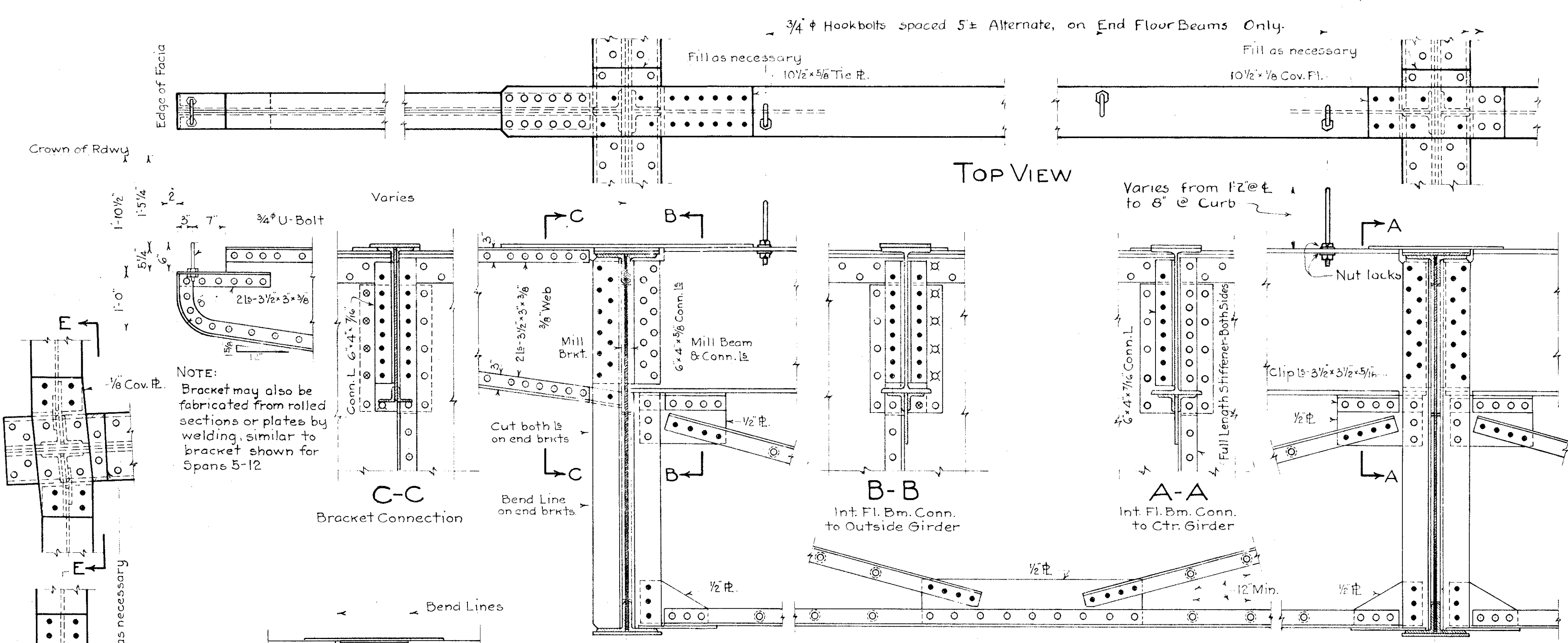
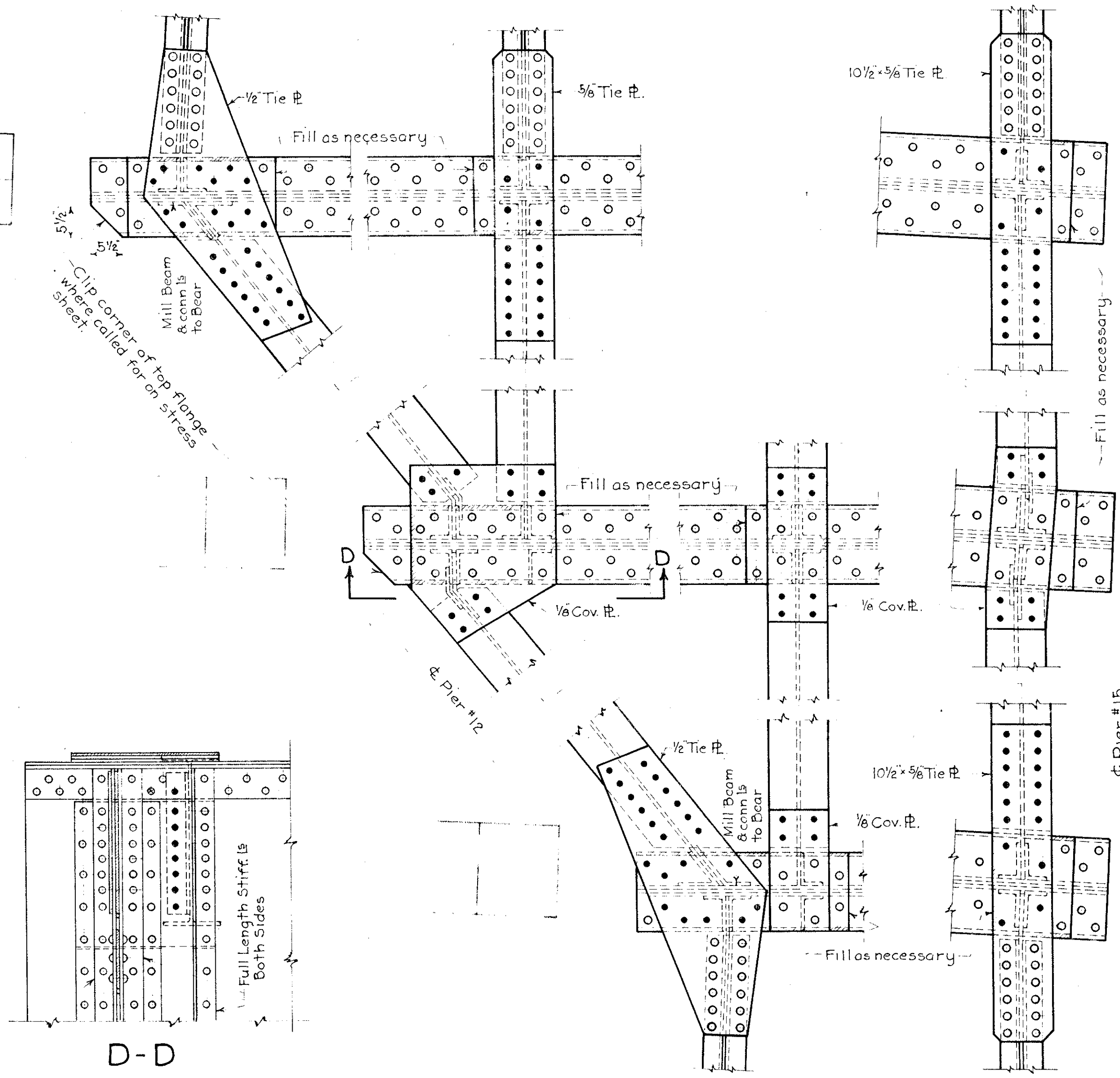
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPANS 15-16, 16-17 & 17-18
STRESS SHEET

SCALE: 3/8" = 1'-0" AUGUST 1, 1936 ISSUE: 1

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Acc. No. 5154

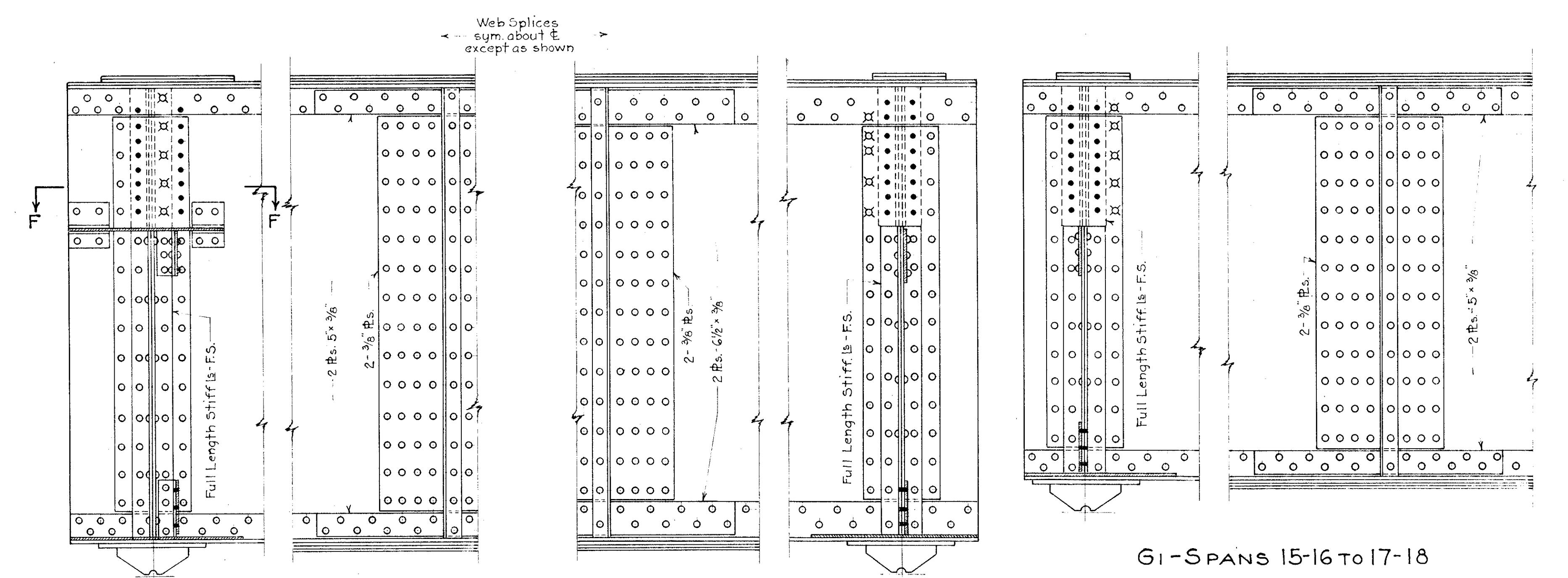


D-D
End Details - Ctr. Girder

TYPICAL DETAILS - TOP FLANGE

E-E
End Fl. Bm. Conn. to Ctr. Girder

TYPICAL CROSS SECTION
Spans 12-13 & 15-18
Spans 13-15 similar to Spans 1-5

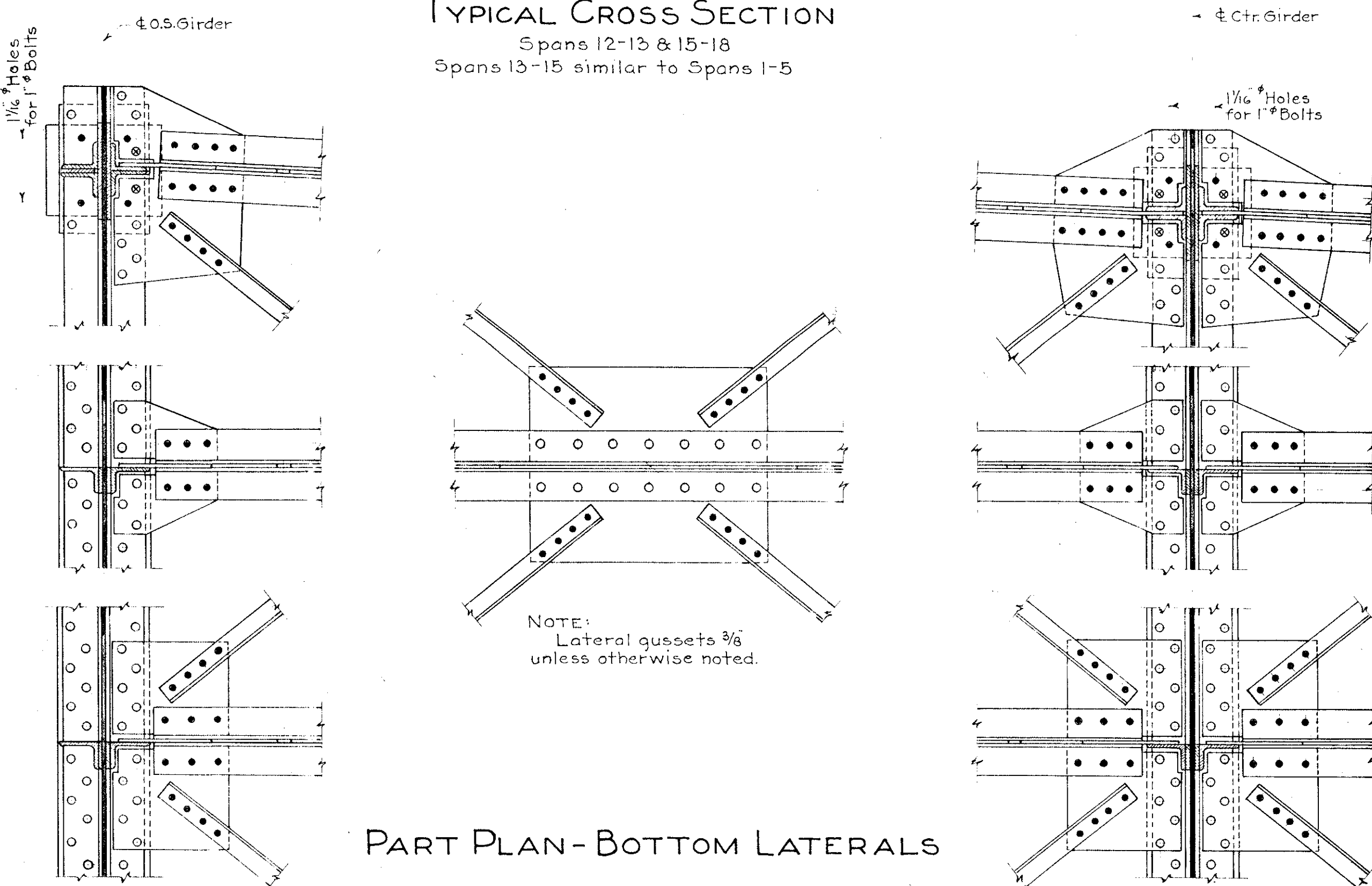


G1 - SPAN 12-13

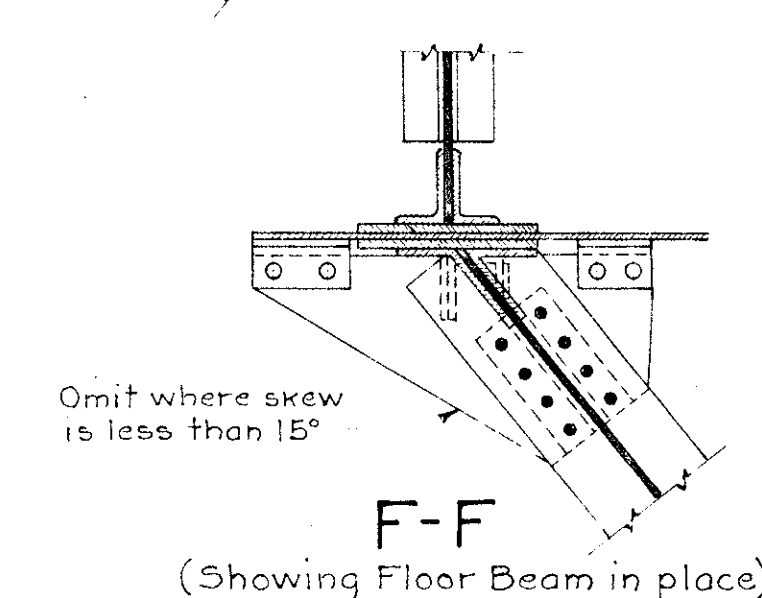
G1 - SPANS 13-14 & 14-15

G1 - SPANS 15-16 TO 17-18

WEB DETAILS - MAIN GIRDERS
Shown for G1 - G3 Similar



PART PLAN - BOTTOM LATERALS



F-F
(Showing Floor Beam in place)

CITY OF CINCINNATI
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DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
SPANS 12-13 TO 17-18
DETAILS

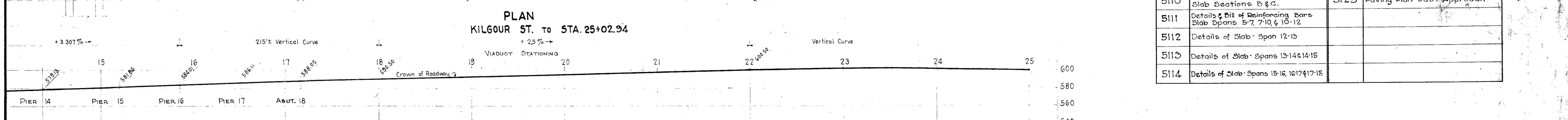
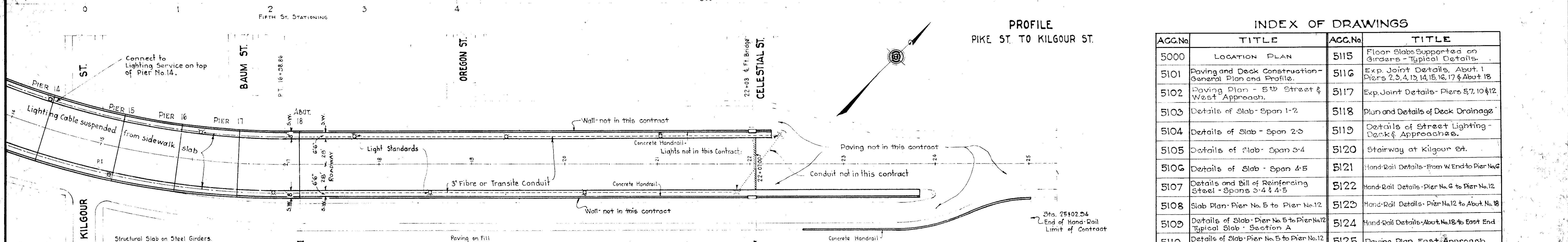
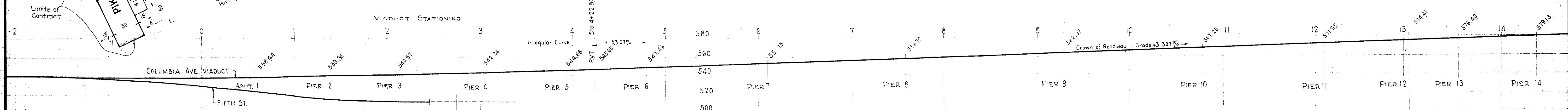
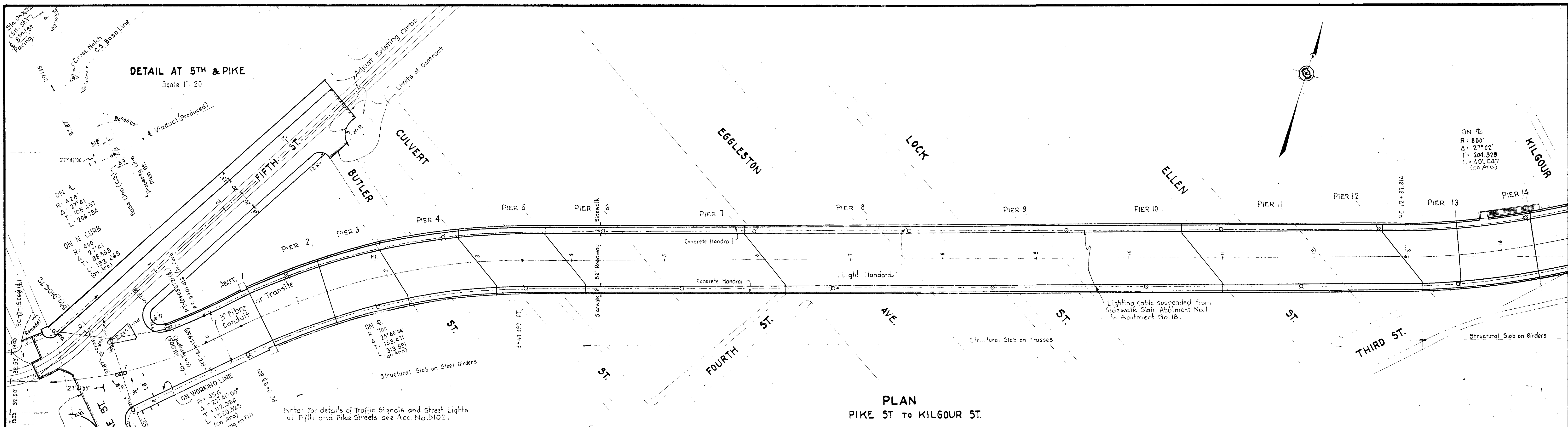
SCALE: 3/4" = 1'-0" AUGUST 1, 1936 ISSUE: 1
SUBMITTED: [Signature] SPECIAL ENGINEER APPROVED: [Signature] CHIEF ENGINEER
APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS APPROVED: [Signature] CITY MANAGER

Issue No.	REVISION	DATE	By	Chk.

Acc. No. 5155
PRINT MADE
16-10-21

E.B.S.
E.B.S.
T.P.Y.
W.F.H.

[Signature]



INDEX OF DRAWINGS

ACC.No	TITLE	ACC.No	TITLE
5000	LOCATION PLAN	5115	Floor Slabs Supported on Girders - Typical Details.
5101	Paving and Deck Construction - General Plan and Profile.	5116	Exp. Joint Details, Abut. 1 Piers 2, 3, 4, 13, 14, 15, 16, 17 & Abut. 18
5102	Paving Plan - 5th Street & West Approach.	5117	Exp. Joint Details - Piers 5, 7, 10 & 12
5103	Details of Slab - Span 1-2	5118	Plan and Details of Deck Drainage
5104	Details of Slab - Span 2-3	5119	Details of Street Lighting - Deck & Approaches.
5105	Details of Slab - Span 3-4	5120	Stairway at Kilgour Ext.
5106	Details of Slab - Span 4-5	5121	Hand-Rail Details - From W. End to Pier No. 6
5107	Details and Bill of Reinforcing Steel - Spans 3-4 & 4-5	5122	Hand-Rail Details - Pier No. 6 to Pier No. 12
5108	Slab Plan - Pier No. 5 to Pier No. 12	5123	Hand-Rail Details - Pier No. 12 to Abut. No. 18
5109	Details of Slab - Pier No. 5 to Pier No. 12 Typical Slab - Section A	5124	Hand-Rail Details - Abut. No. 18 to East End
5110	Details of Slab - Pier No. 5 to Pier No. 12 Slab Sections B & C.	5125	Paving Plan East Approach
5111	Details & Bill of Reinforcing Bars Slab Spans 5-7, 7-10, & 10-12		
5112	Details of Slab - Span 12-13		
5113	Details of Slab - Spans 13-14 & 14-15		
5114	Details of Slab - Spans 15-16, 16-17 & 17-18		

CITY OF CINCINNATI
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**COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
PAVING AND DECK CONSTRUCTION
GENERAL PLAN AND PROFILE**

SCALE: 1" = 50' DATE: Aug. 1, 1936 ISSUE: 1

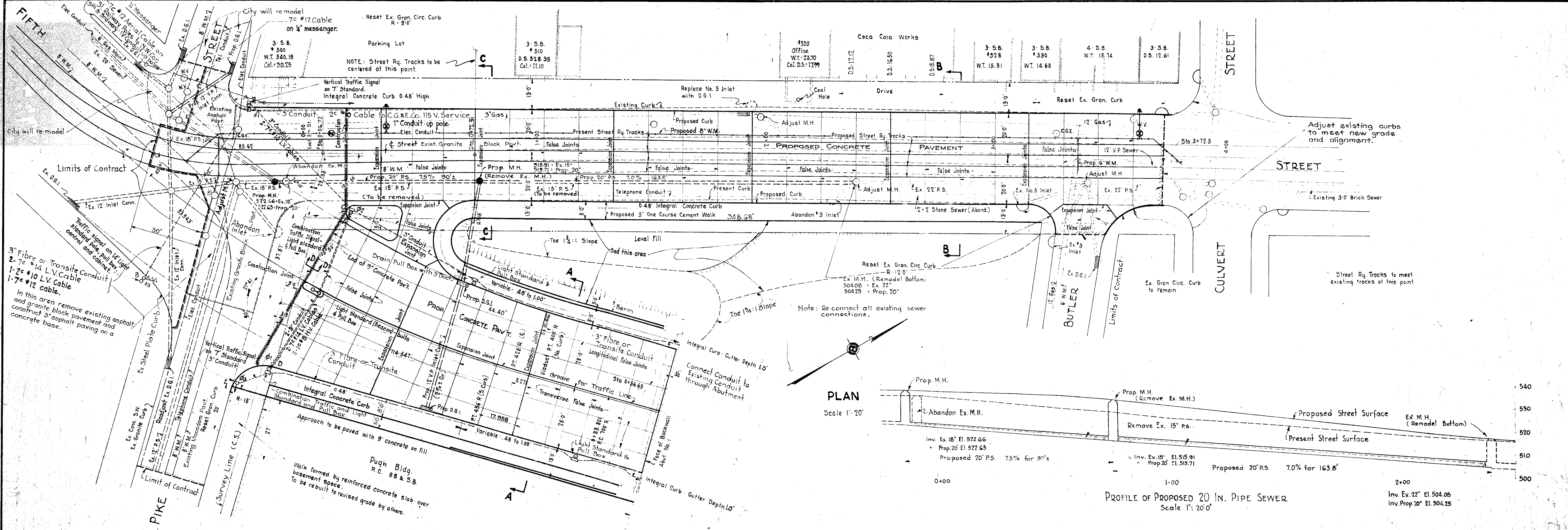
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APPROVED: *[Signature]* DIRECTOR OF PUBLIC WORKS APPROVED: *[Signature]* ACTING CITY MANAGER

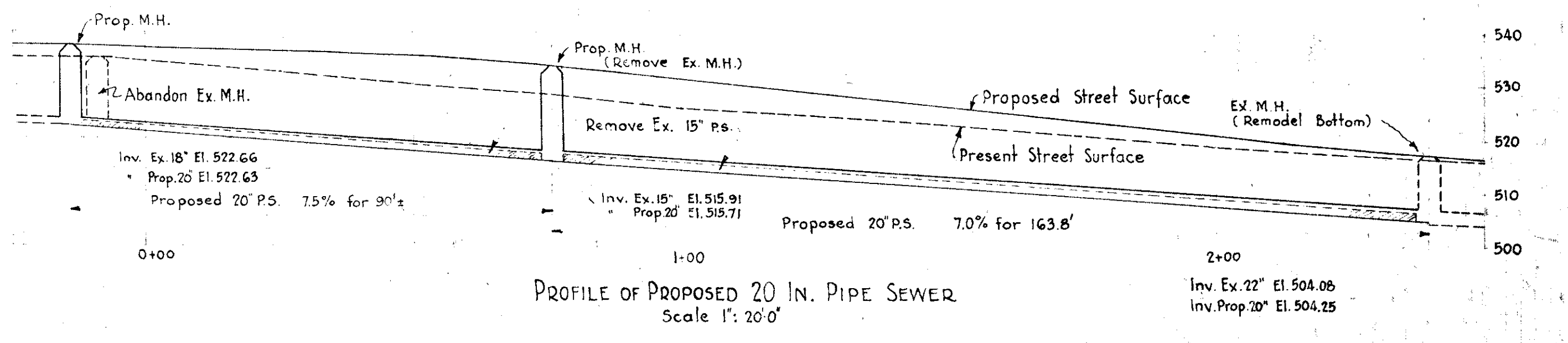
Acc. No. 5101

ISSUE No.	REVISION	DATE	Sig.	Sig.

TRY.
SAM'S
W.J.S.
[Signature]

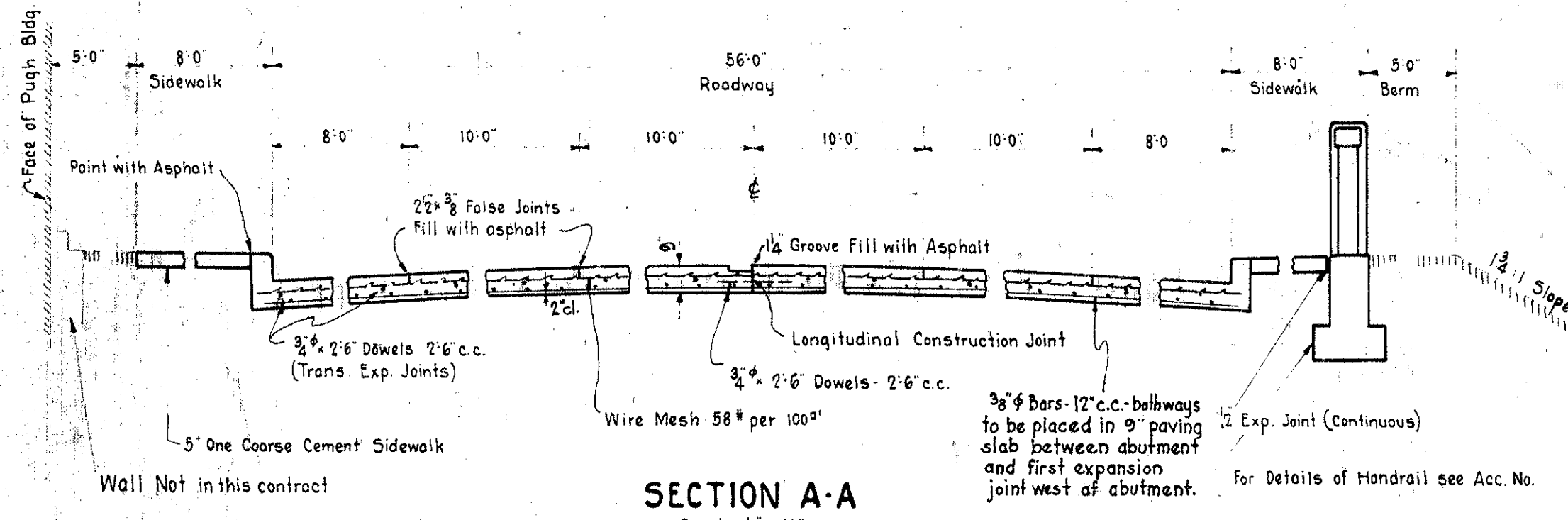


PLAN
Scale 1" = 20'

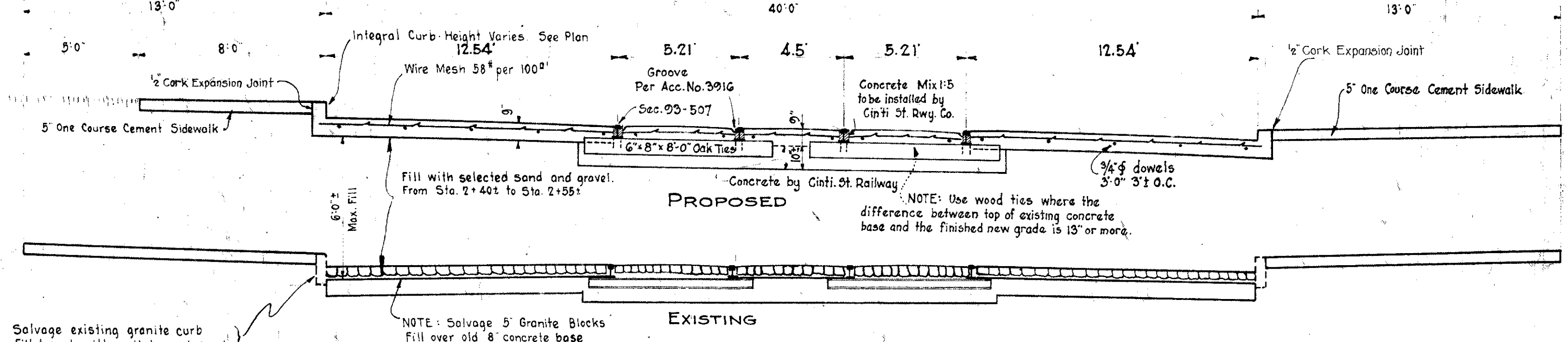


PROFILE OF PROPOSED 20 IN. PIPE SEWER
Scale 1" = 20'0"

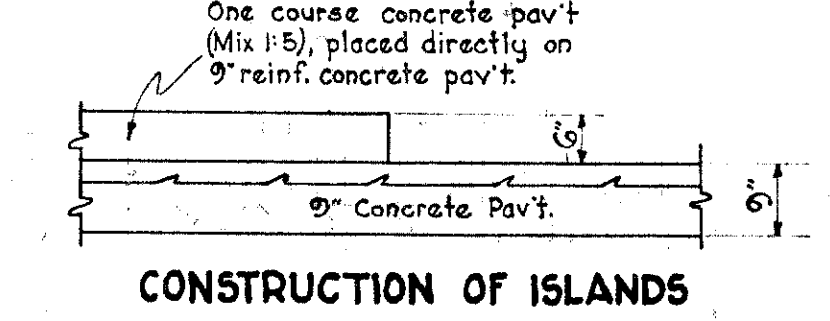
- LEGEND**
- 3-Light Vert. Traffic Signal
 - 3-Light Hor. Traffic Signal
 - 4-Light Hor. Traffic Signal



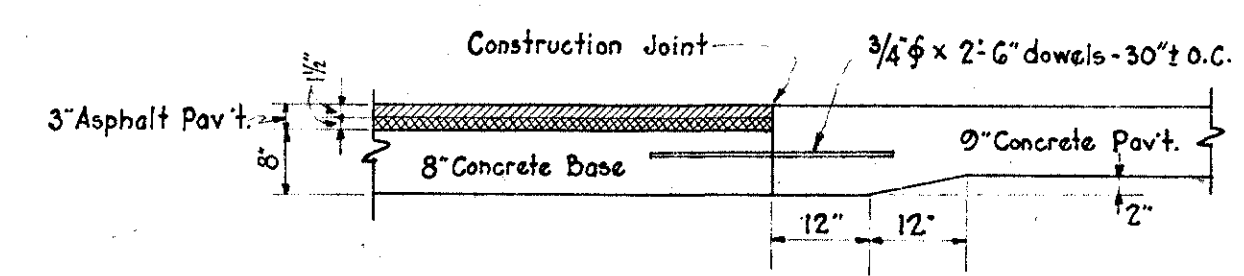
SECTION A-A
Scale 1/4" = 1'0"



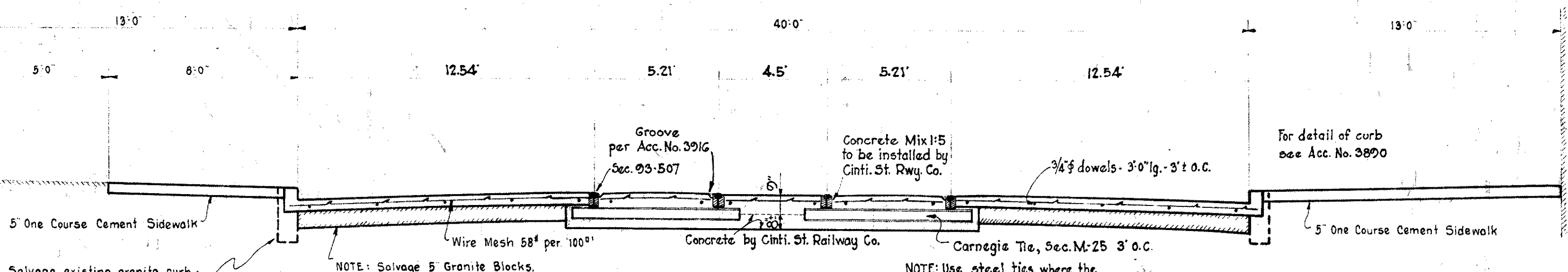
SECTION C-C
Scale 1/4" = 1'0"



CONSTRUCTION OF ISLANDS
Scale 1/2" = 1'0"



SECTION D-D
Scale 1/2" = 1'0"



SECTION B-B
Scale 1/4" = 1'0"

GENERAL NOTES

Pavement on 5th St. from west end of new concrete paving to sta. 2+75 shall be broomed longitudinally and grooved transversely with care being taken to line up grooves across Street Ry. Tracks.

For detailed grades see plan on file in office of Engineer of Highways. Integral Concrete Curbs shall conform to Acc. No. 3890 except that height shall vary as shown on the plan.

D.G.I. indicates double gutter inlet. For detail see standard plan 'DG' of the Division of Sewers.

Unless otherwise shown all new concrete pavement is 9" thick. Sleeves for mud-jack holes to be placed where directed by the engineer.

For details of sleeves for mud-jack holes see drawing Acc. No. 5125.

For details of locations and grades for pedestrian islands see Highway drawing Acc. No. 18281.

For details of construction of paving and sidewalk slabs at abutment, see Acc. No. 5125.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

**COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
PAVING PLAN
FIFTH STREET AND WEST APPROACH**

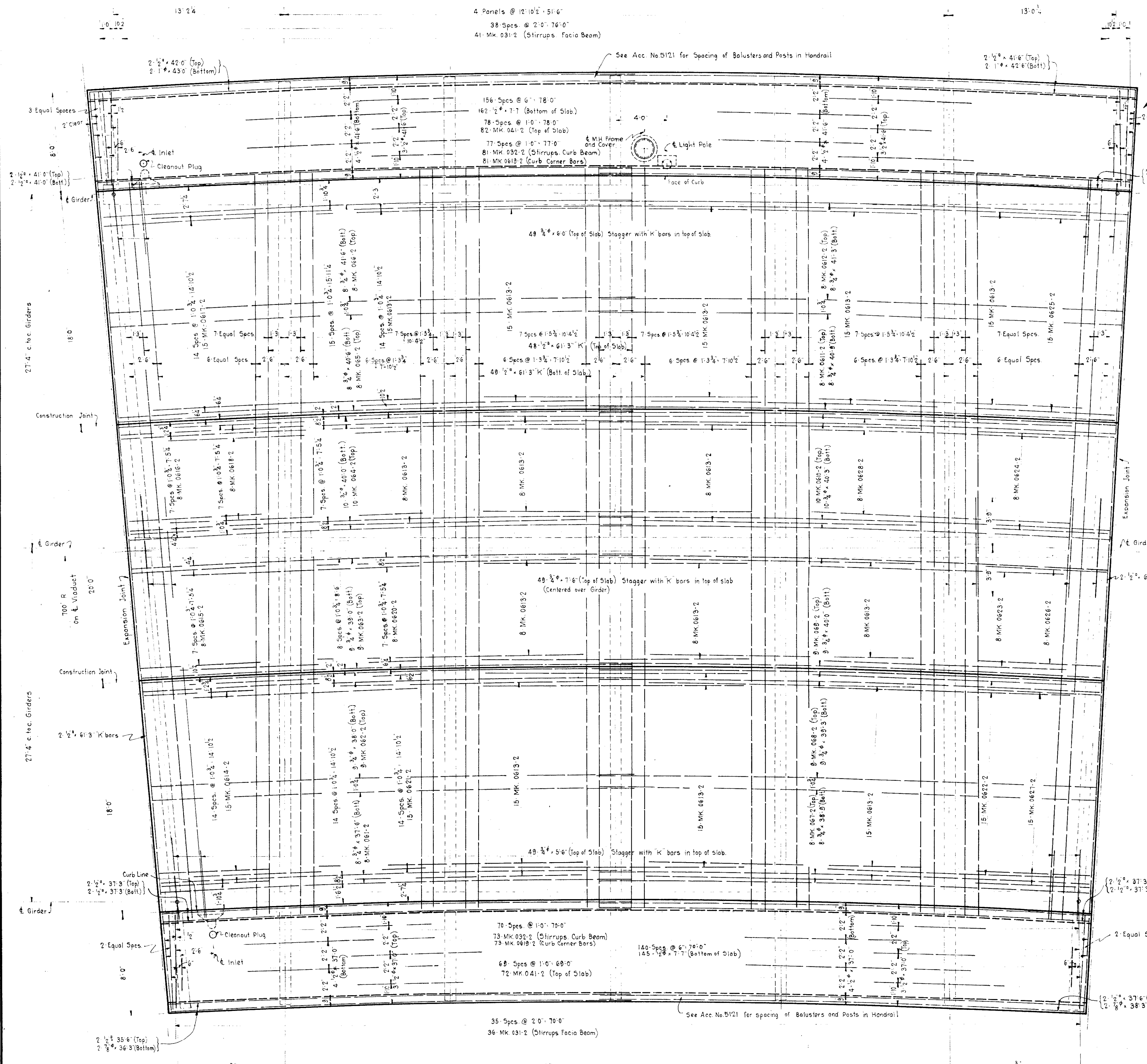
SCALE: Indicated AUG. 1, 1936 155UE

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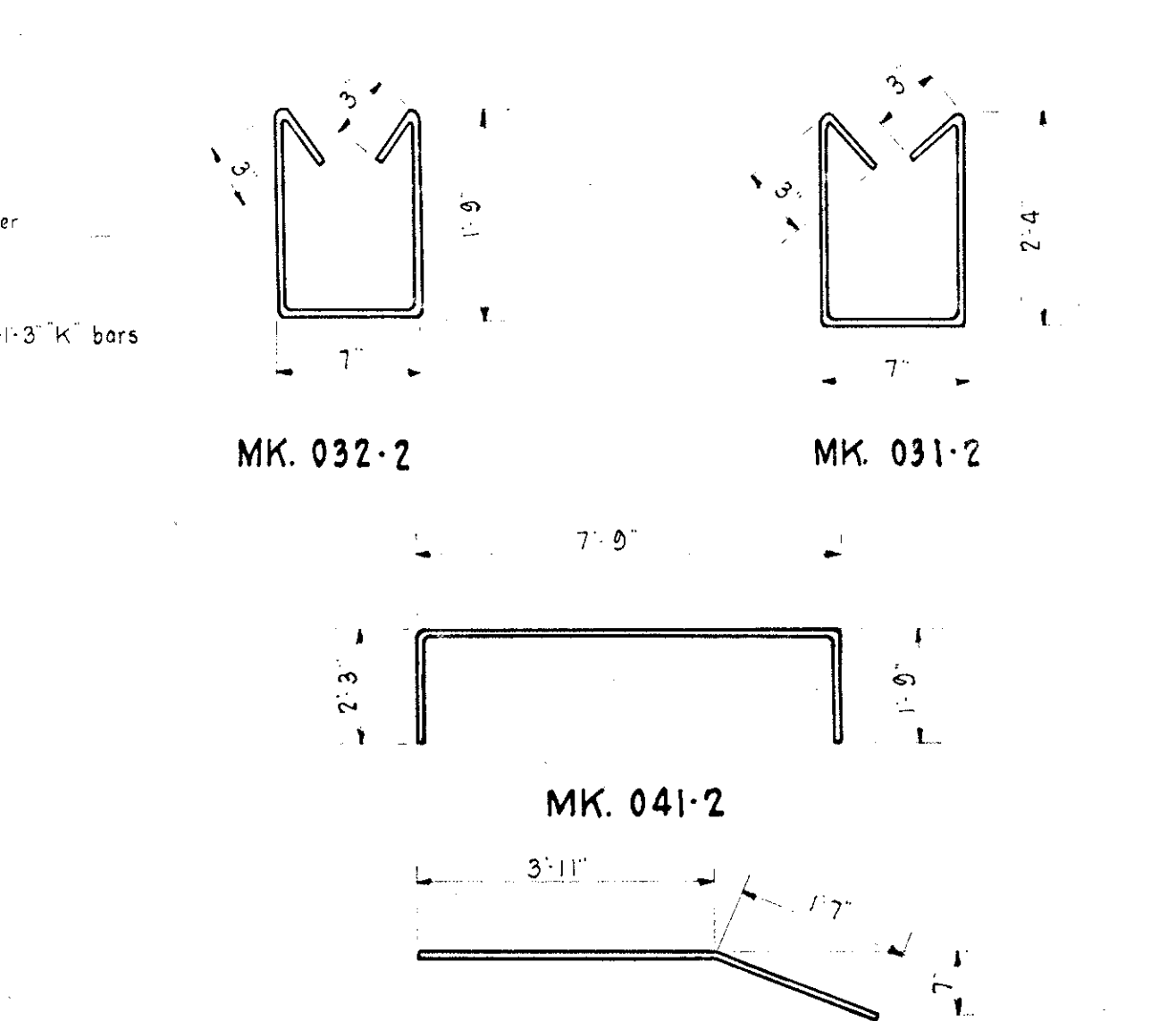
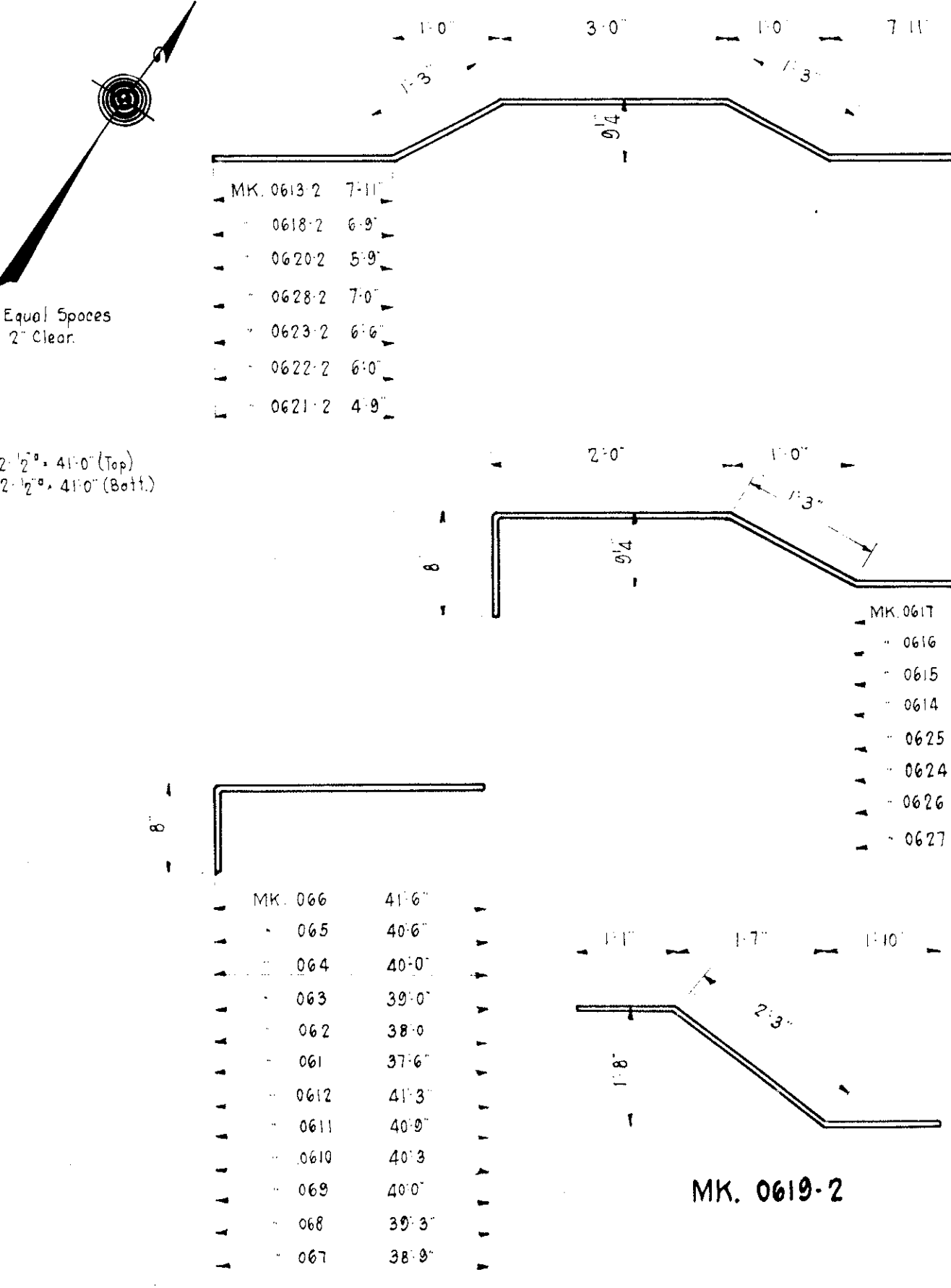
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ISSUE NO.	REVISION	DATE	SIG.	SIG.

Acc. No. 5102
PRINT MADE



PLAN OF FLOOR SLAB
Scale 1/4"=1'-0"



BILL OF REINFORCING STEEL				
No.	MARK.	SIZE	LENGTH	LOCATION
8	Str.	3/4"	41'-6"	Longitudinal Rdwy. Slab
8	"	"	40'-6"	"
10	"	"	40'-0"	"
9	"	"	39'-0"	"
9	"	"	38'-0"	"
8	"	"	37'-6"	"
8	"	"	41'-3"	"
8	"	"	40'-9"	"
10	"	"	40'-3"	"
9	"	"	40'-0"	"
9	"	"	39'-3"	"
8	"	"	38'-9"	"
8	061-2	"	38'-1"	"
9	062-2	"	38'-7"	"
9	063-2	"	39'-7"	"
10	064-2	"	40'-7"	"
8	065-2	"	41'-1"	"
8	066-2	"	42'-1"	"
8	067-2	"	39'-4"	"
9	068-2	"	39'-10"	"
9	069-2	"	40'-7"	"
10	0610-2	"	40'-10"	"
8	0611-2	"	41'-4"	"
8	0612-2	"	41'-10"	"
168	0613-2	"	21'-4"	"
15	0614-2	"	9'-5"	"
8	0615-2	"	10'-2"	"
8	0616-2	"	11'-2"	"
15	0617-2	"	12'-4"	"
8	0618-2	"	20'-2"	"
8	0620-2	"	19'-2"	"
15	0621-2	"	18'-2"	"
15	0622-2	"	19'-5"	"
8	0623-2	"	19'-11"	"
8	0624-2	"	11'-5"	"
15	0625-2	"	12'-5"	"
8	0626-2	"	10'-11"	"
15	0627-2	"	10'-2"	"
8	0628-2	"	20'-5"	"
101	Str. K	1/2"	61'-3"	Transverse
49	Str.	3/4"	6'-0"	"
49	"	"	7'-6"	"
49	"	"	5'-6"	"
14	Str.	1/2"	41'-6"	Longitudinal Sidwk Slab
14	Str.	1/2"	37'-0"	Longitudinal Sidwk Slab
307	"	1/2"	7'-7"	Transverse
154	041-2	1/2"	11'-7"	"
2	Str.	1/2"	42'-0"	Longitudinal Facia Beams
2	"	1/2"	41'-6"	"
2	"	1/2"	35'-6"	"
2	"	1/2"	37'-6"	"
2	"	1"	43'-0"	"
2	"	1"	42'-6"	"
2	"	7/8"	36'-3"	"
2	"	7/8"	38'-3"	"
77	031-2	3/8"	5'-7"	Stirrups
8	Str.	1/2"	41'-0"	Longitudinal Curb Beam
8	Str.	1/2"	37'-3"	Longitudinal Curb Beam
154	032-2	3/8"	4'-5"	Stirrups
154	0619-2	3/4"	5'-2"	Curb Bars
344	Str.	1/2"	5'-4"	Handrail Baluster
22	41-2	1/2"	5'-6"	Posts
22	Str.	1/2"	5'-6"	"

General Notes:
 For General Plan see Acc.No.5101.
 For Details of Expansion Joints see Acc.No.5116.
 For Details of Deck Drainage see Acc.No.5118.
 For Typical Details and Cross Sections of Deck see Acc.No.5115.
 For Details of Lighting see Acc.No.5119.
 For Details of Hand-rail see Acc. No.5121.
 For Paving Plan-West Approach see Acc.No.5102
 All Concrete - Mix 1:5 - See Specifications.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUAN.
Deck Concrete 1:5	cuyd.	215
Reinforcing Steel	lb.	56500

ISSUE No.	REVISION	DATE	SIG.	SIG.

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGLESTON AVENUE
DETAILS OF SLAB
 SPAN I-2

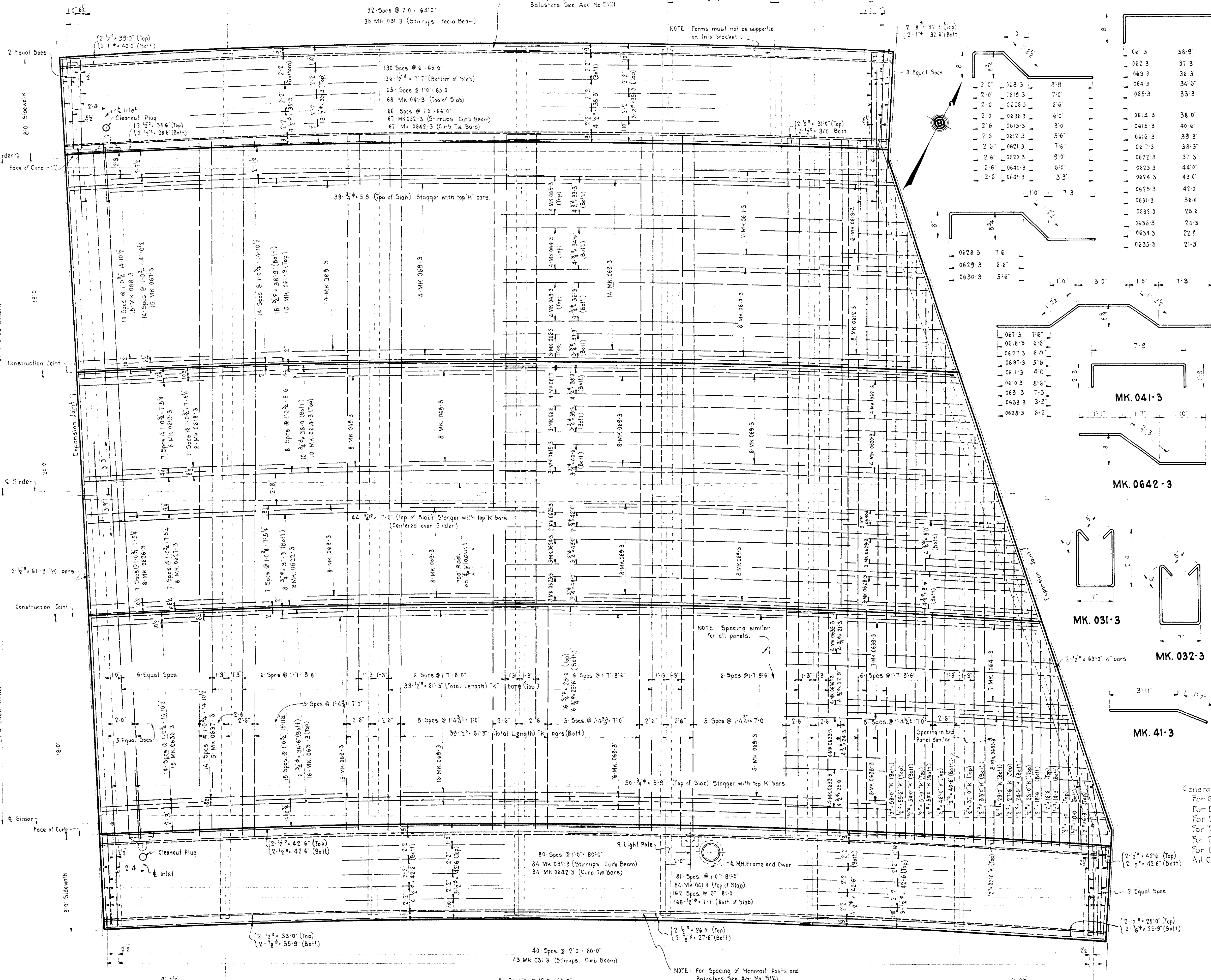
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 AUG. 1, 1936
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 APPROVED: [Signature]
 ACTING CITY MANAGER

Acc. No. 5103
 PRINT MADE

W.L.H.
 G.E.C.
 T.P.Y.
 W.J.S.

BILL OF REINFORCING STEEL

No.	MARK	SIZE	LENGTH	LOCATION	No.	MARK	SIZE	LENGTH	LOCATION
8	0638-3	3/4"	16.0	Longitudinal Rdwy Slab	15	Str	3/4"	36.9	Longitudinal Rdwy Slab
7	0639-3		16.5	" " " "	3	"	"	37.3	" " " "
8	0640-3		10.4	" " " "	4	"	"	36.3	" " " "
7	0641-3		7.7	" " " "	4	"	"	33.3	" " " "
80	Str K'	1/2"	6.3	Transverse	"	"	"	"	"
1			58.0	" " " "	10			38.0	" " " "
1			55.6	" " " "	3			40.6	" " " "
1			54.0	" " " "	3			39.3	" " " "
1			51.0	" " " "	4			38.3	" " " "
1			50.0	" " " "	8			37.3	" " " "
1			48.0	" " " "	3			44.0	" " " "
1			46.0	" " " "	3			44.0	" " " "
1			40.6	" " " "	3			43.0	" " " "
1			37.0	" " " "	2			42.0	" " " "
1			33.0	" " " "	16			36.6	" " " "
1			29.0	" " " "	4			25.6	" " " "
1			27.6	" " " "	4			24.3	" " " "
1			24.6	" " " "	4			22.9	" " " "
1			23.0	" " " "	4			21.3	" " " "
1	Str	1/2"	18.6	" " " "	15	061-3		39.4	" " " "
1			16.0	" " " "	3	062-3		37.10	" " " "
1			14.3	" " " "	4	063-3		36.1	" " " "
1			11.0	" " " "	4	064-3		35.1	" " " "
1			10.0	" " " "	4	065-3		33.10	" " " "
1			6.9	" " " "	"	"	"	"	"
2	Str K'	1/2"	63.0	" " " "	15	067-3		20.2	" " " "
89	Str	3/4"	5.9	" " " "	15	068-3		12.7	" " " "
44			7.6	" " " "	168	069-3		19.11	" " " "
1	Str K'	1/2"	32.0	" " " "	6	0610-3		18.2	" " " "
14	Str	1/2"	35.3	Longitudinal Sawk Slab	7	0611-3		16.8	" " " "
14	Str	1/2"	42.6	Longitudinal Sawk Slab	8	0612-3		8.10	" " " "
10				" " " "	6	0613-3		7.4	" " " "
10				" " " "	10	0614-3		38.7	" " " "
302	Str	1/2"	7.7	Transverse Sawk Slab	3	0615-3		41.1	" " " "
152	041-3	1/2"	11.7	" " " "	3	0616-3		39.10	" " " "
2	Str	1/2"	39.0	Longitudinal. Facia Beam	4	0617-3		38.10	" " " "
2			32.3	" " " "	8	0618-3		19.2	" " " "
2			35.0	" " " "	8	0619-3		10.10	" " " "
2			26.0	" " " "	4	0620-3		13.4	" " " "
2			40.0	" " " "	4	0621-3		11.10	" " " "
2			32.6	" " " "	8	0622-3		37.10	" " " "
2			35.9	" " " "	3	0623-3		44.7	" " " "
2			27.6	" " " "	3	0624-3		43.7	" " " "
78	031-3	3/8"	5.7	Stirrups	2	0625-3		42.7	" " " "
4	Str	1/2"	38.6	Longitudinal Curb Beam	8	0626-3		10.4	" " " "
4			31.0	" " " "	8	0627-3		18.8	" " " "
8			42.6	" " " "	3	0628-3		16.7	" " " "
3				" " " "	3	0629-3		15.7	" " " "
151	032-3	3/8"	4.5	Stirrups Curb Beam	2	0630-3		14.7	" " " "
151	0642-3	3/4"	5.1	Tie Bars	16	0631-3		37.1	" " " "
4				" " " "	4	0632-3		26.1	" " " "
328	Str	1/2"	5.4	Handrail Balusters	4	0633-3		24.10	" " " "
32	41-3	5/8"	5.6	Posts	4	0634-3		23.4	" " " "
32	Str	5/8"	5.6	" " " "	4	0635-3		21.10	" " " "
4				" " " "	15	0636-3		9.10	" " " "
4				" " " "	15	0637-3		18.2	" " " "
2				" " " "	32	Str		25.6	" " " "



32 Sps @ 2'0" 64'0"
35 MK 031-3 (Stirrups Facia Beam)

NOTE For Spacing of Handrail Posts and Balusters See Acc No 5121

NOTE Forms must not be supported on this bracket

NOTE Spacing similar for all panels.

NOTE For Spacing of Handrail Posts and Balusters See Acc. No. 5121

General Notes:
For General Plan see Acc. No. 5101.
For Details of Expansion Joints see Acc. No. 5116.
For Details of Deck Drainage see Acc. No. 5118.
For Typical Details and Cross sections of Deck see Acc. No. 5115.
For Details of Lighting see Acc. No. 5119.
For Details of Hand-rail see Acc. No. 5121.
All Concrete 1:5 Mix See Specifications.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUAN.
Deck Concrete 1:5	cuyd.	206
Reinforcing Steel	lb.	35100

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
DETAILS OF SLAB
SPAN 2-3

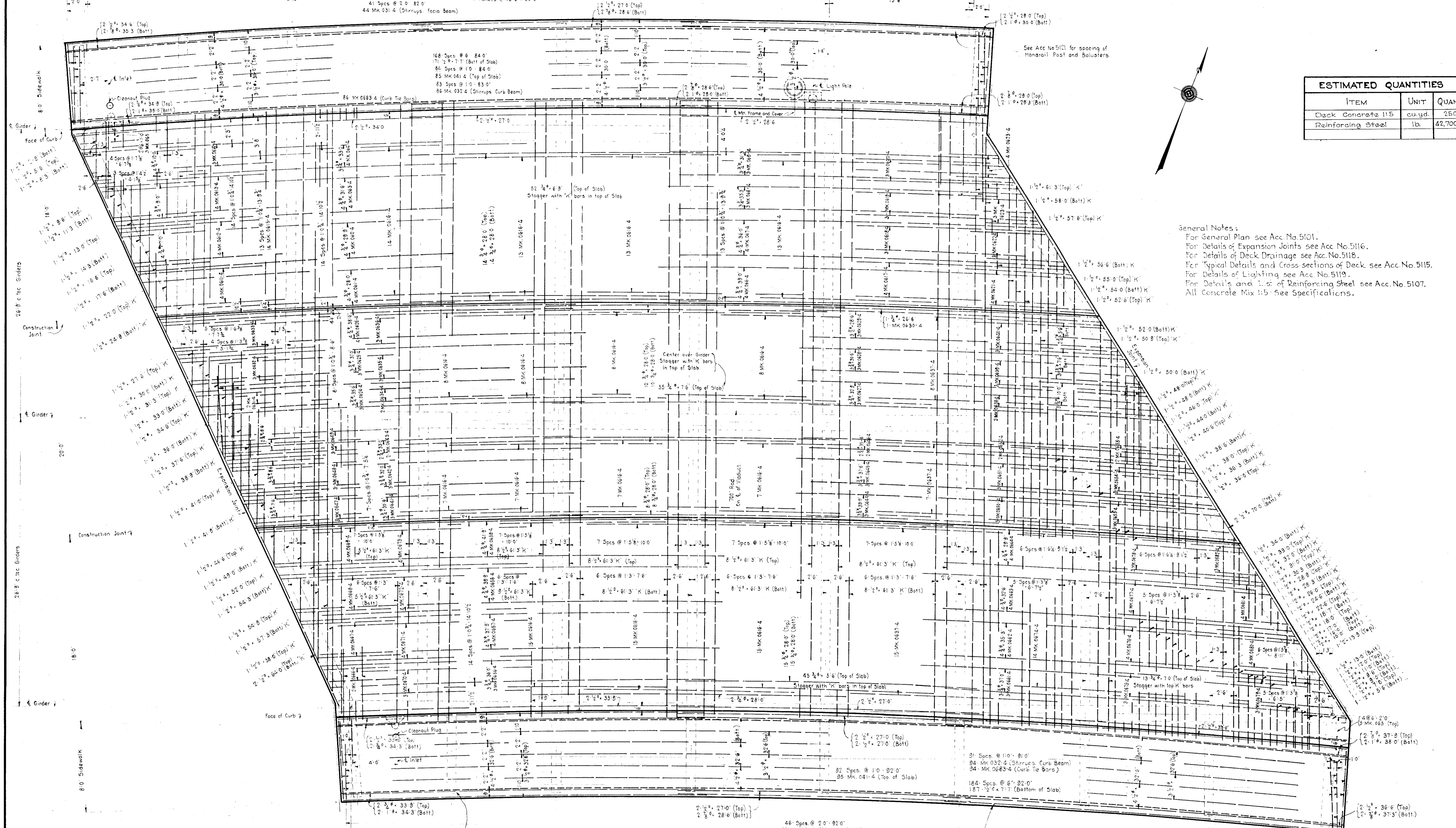
SCALE: 1/4" = 1'-0" AUG. 1, 1936 ISSUE: 1
SUBMITTED: _____ APPROVED: _____
APPROVED: _____ APPROVED: _____
DIRECTOR OF PUBLIC WORKS ACTING CITY MANAGER

ISSUE NO.	REVISION	DATE	SIG.	SIG.

ACC. NO. 5104

W.L.H.
G.E.C.
T.P.Y.
W.J.S.

PLAN OF FLOOR SLAB
Scale 1/4" = 1'-0"



ESTIMATED QUANTITIES		
ITEM	UNIT	QUAN.
Deck Concrete 1:5	c.u.yd.	250
Reinforcing Steel	lb.	42,700

General Notes:
 For General Plan see Acc. No. 5101.
 For Details of Expansion Joints see Acc. No. 5116.
 For Details of Deck Drainage see Acc. No. 5118.
 For Typical Details and Cross-sections of Deck see Acc. No. 5115.
 For Details of Lighting see Acc. No. 5119.
 For Details and List of Reinforcing Steel see Acc. No. 5107.
 All Concrete Mix 1:5 See Specifications.

PLAN OF FLOOR SLAB
 Scale 1/4" = 1'-0"

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
DETAILS OF SLAB
SPAN 3-4

SCALE: 1/4" = 1'-0" AUG. 1, 1936 ISSUE: 1
 SUBMITTED: *[Signature]* SPECIAL ENGINEER APPROVED: *[Signature]* ENGINEER OF HIGHWAYS
 APPROVED: *[Signature]* DIRECTOR OF PUBLIC WORKS APPROVED: *[Signature]* ACTING CITY MANAGER

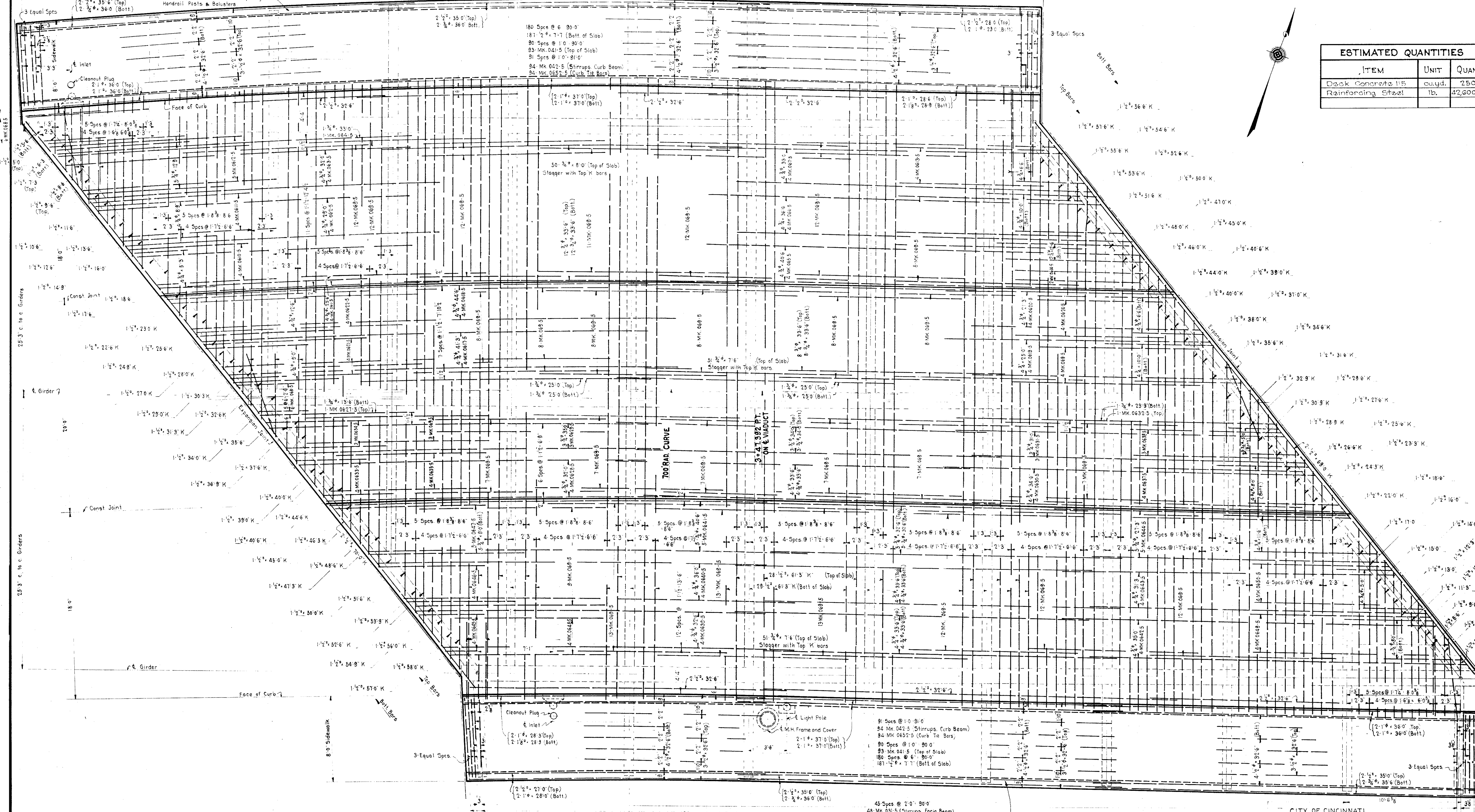
ISSUE NO.	REVISION	DATE	SIG.	SIG.

Acc. No. 5105
 PRINT MADE

6 Panels @ 11'-0" x 66'-0"
 15 Spcs @ 2'-0" x 30'-0"
 48 Mk C31-5 (Stirrups, Face Beams)

NOTE: See Acc. No. 5121 for spacing of Handrail Posts & Balusters

ESTIMATED QUANTITIES		
ITEM	UNIT	QUAN.
Dark Concrete 1:5	cuyd.	250
Reinforcing Steel	lb.	42,600



General Notes:
 For General Plan see Acc. No. 5101.
 For Details of Expansion Joints see Acc. Nos. 5116 & 5117.
 For Details of Deck Drainage see Acc. No. 5118.
 For Typical Details and Cross Sections of Deck see Acc. No. 5115.
 For Details of Lighting see Acc. No. 5119.
 For Details of Hand-rail see Acc. No. 5121.
 For Details and List of Reinforcing Steel see Acc. No. 5107.
 All Concrete Mix 1:5 - see specifications.

PLAN OF FLOOR SLAB
 Scale 1/4" = 1'-0"

ISSUE NO.	REVISION	DATE	SIG.	SIG.

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
DETAILS OF SLAB
SPAN 4-5

SCALE: 1/4" = 1'-0" AUG. 1, 1936 ISSUE: 1
 SUBMITTED: [Signature] SPECIAL ENGINEER APPROVED: [Signature] ENGINEER OF HIGHWAYS
 APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS APPROVED: [Signature] ACTING CITY MANAGER

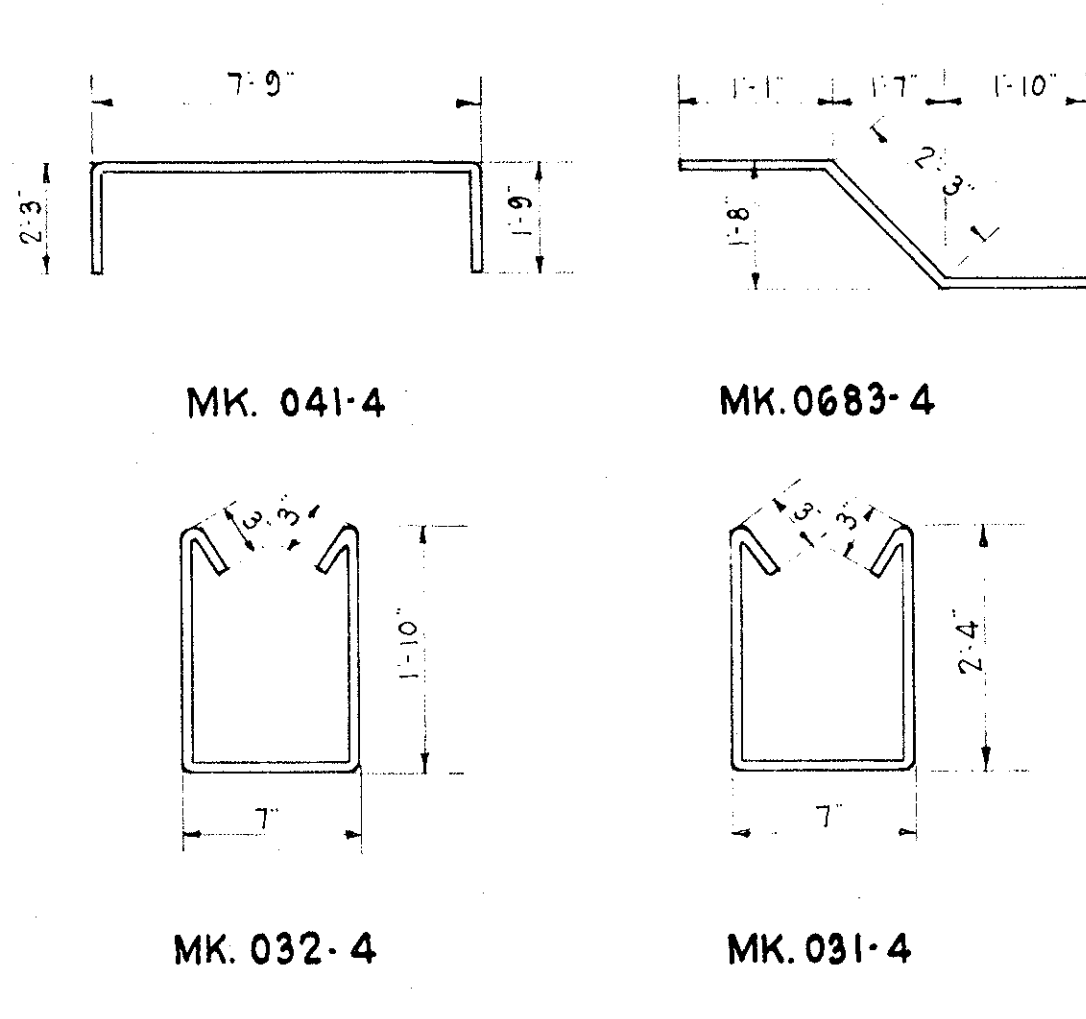
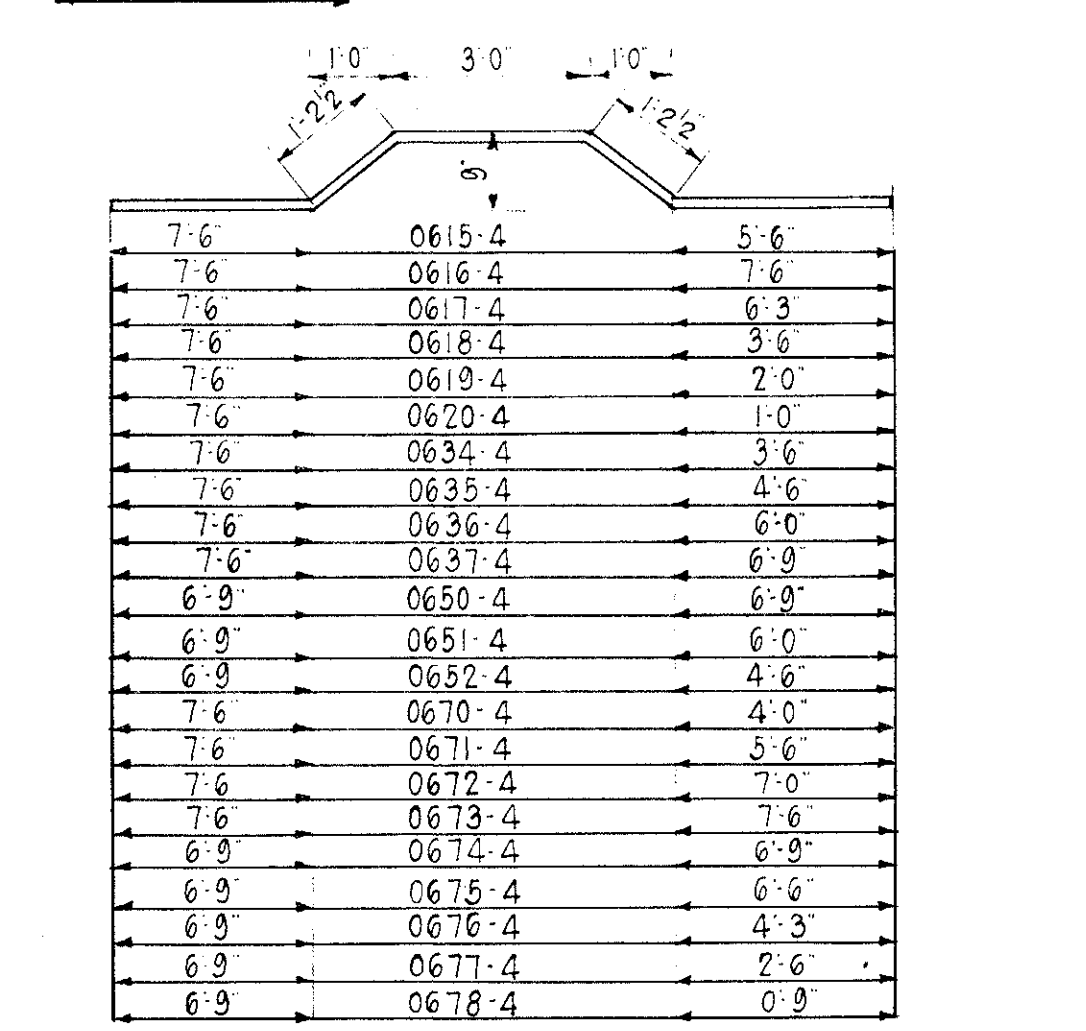
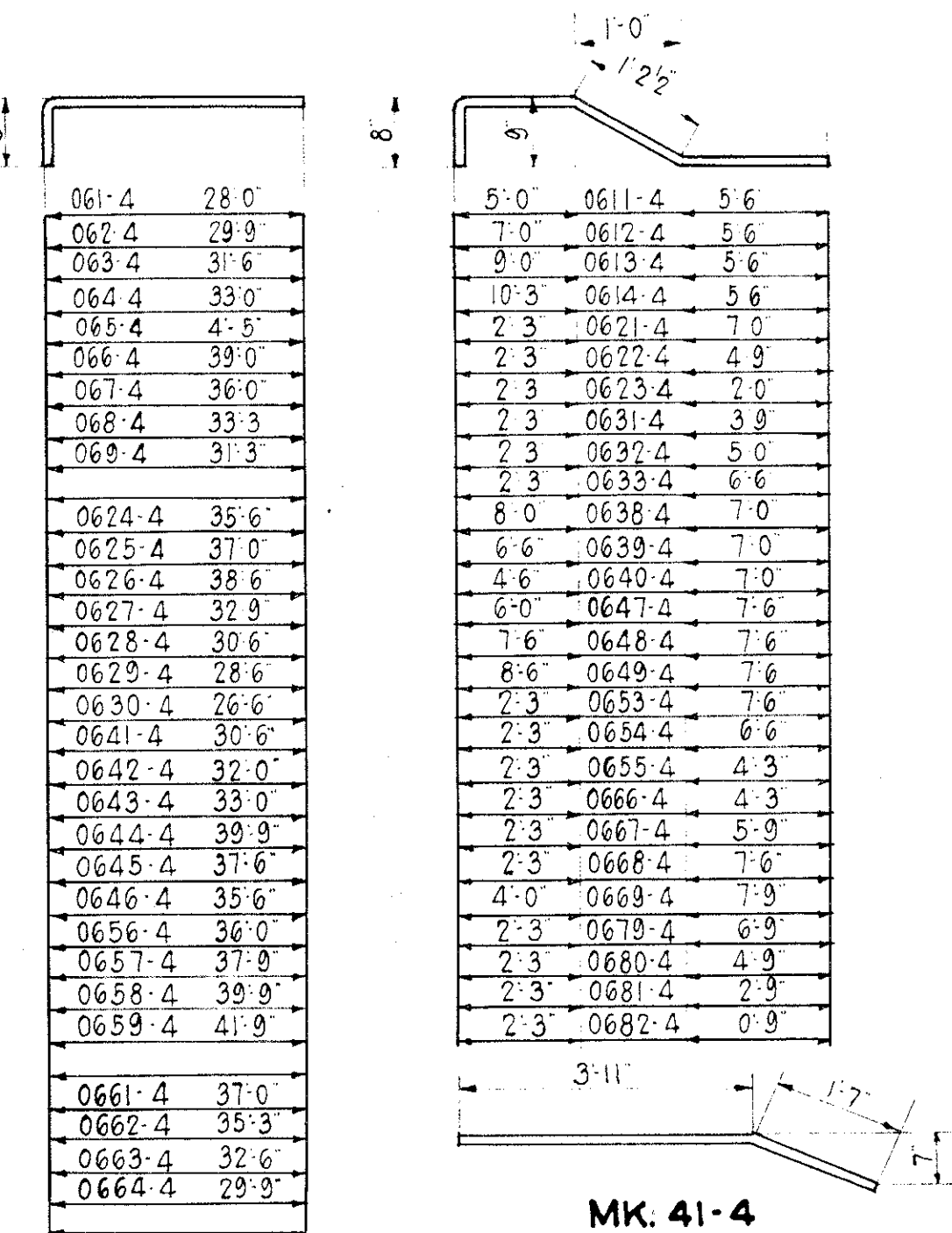
Acc. No. 510G
 PRINT MADE

BILL OF REINFORCING BARS FOR SLAB - SPAN 3-4

Table with columns: No, MARK, SIZE, LENGTH, LOCATION. Contains bar details for span 3-4 including longitudinal and transverse rods, stirrups, and handrail posts.

Table with columns: No, MARK, SIZE, LENGTH, LOCATION. Contains bar details for span 3-4 including longitudinal curb beams and handrail posts.

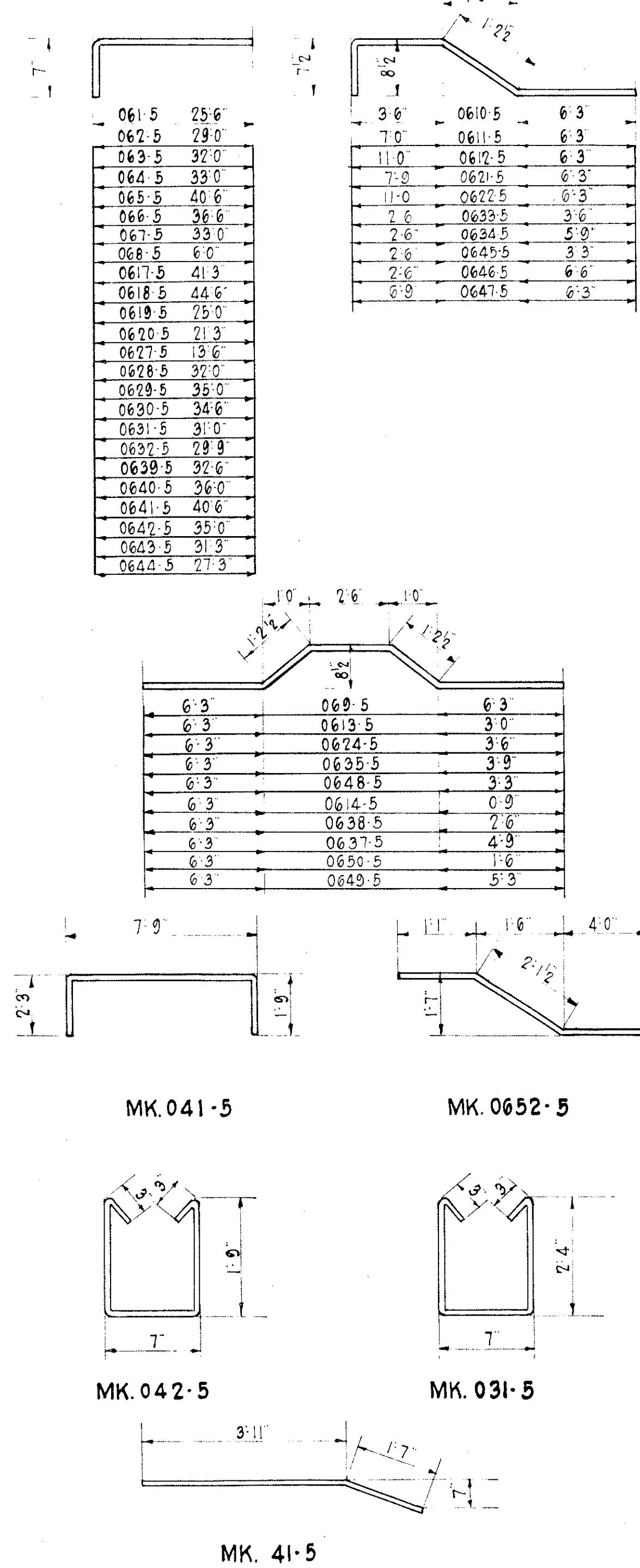
BENDING DETAILS SPAN 3-4



BILL OF REINFORCING BARS FOR SLAB - SPANS 4-5

Table with columns: No, MARK, SIZE, LENGTH, LOCATION. Contains bar details for spans 4-5 including longitudinal and transverse rods, stirrups, and handrail posts.

BENDING DETAILS SPAN 4-5



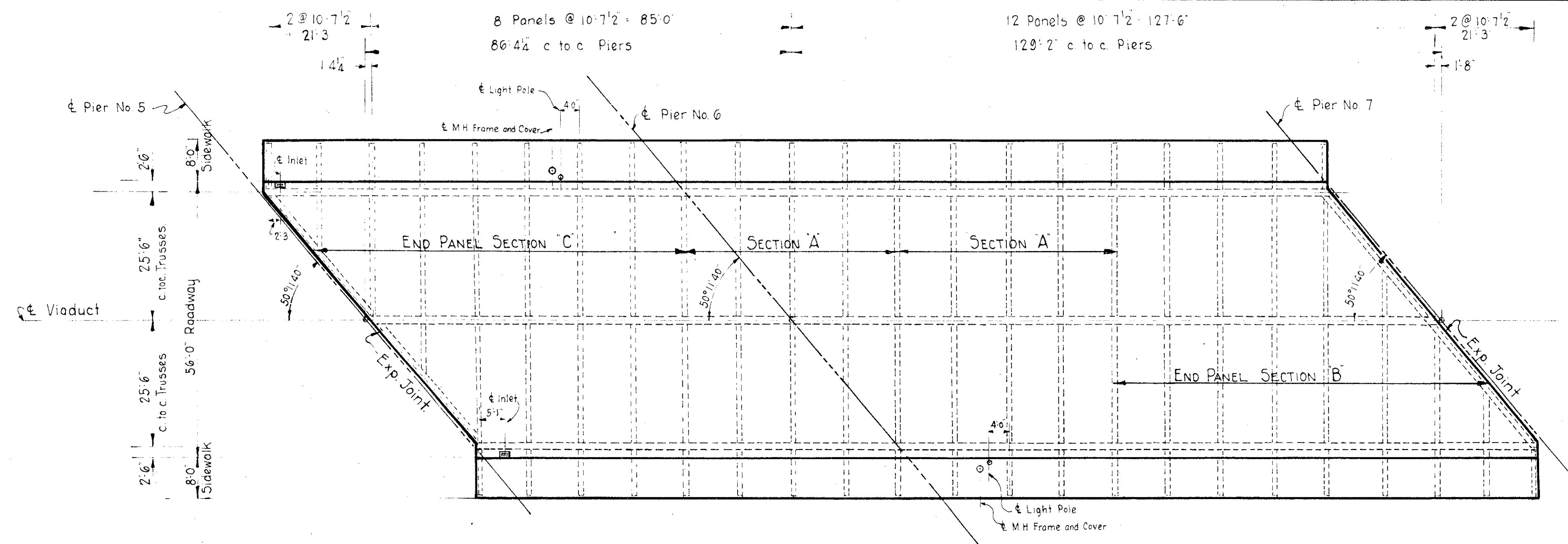
CITY OF CINCINNATI DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS COLUMBIA AVENUE VIADUCT OVER EGGLESTON AVENUE

DETAILS & BILL OF REINFORCING BARS SLAB SPANS 3-4 & 4-5 SCALE None AUG. 1, 1936 ISSUE: 1

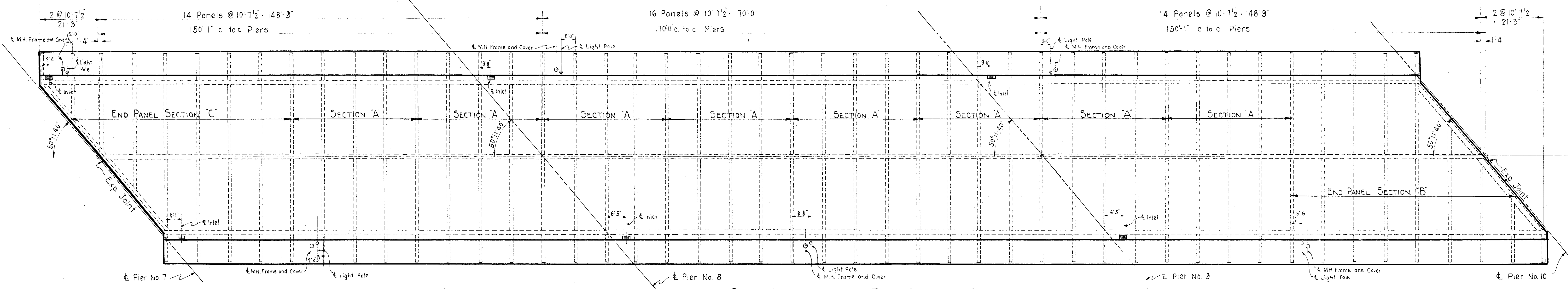
SUBMITTED: [Signature] SPECIAL ENGINEER APPROVED: [Signature] ENGINEER OF PUBLIC WORKS APPROVED: [Signature] ACTING CITY MANAGER

Table with columns: ISSUE No, REVISION, DATE, Sig., Sig.

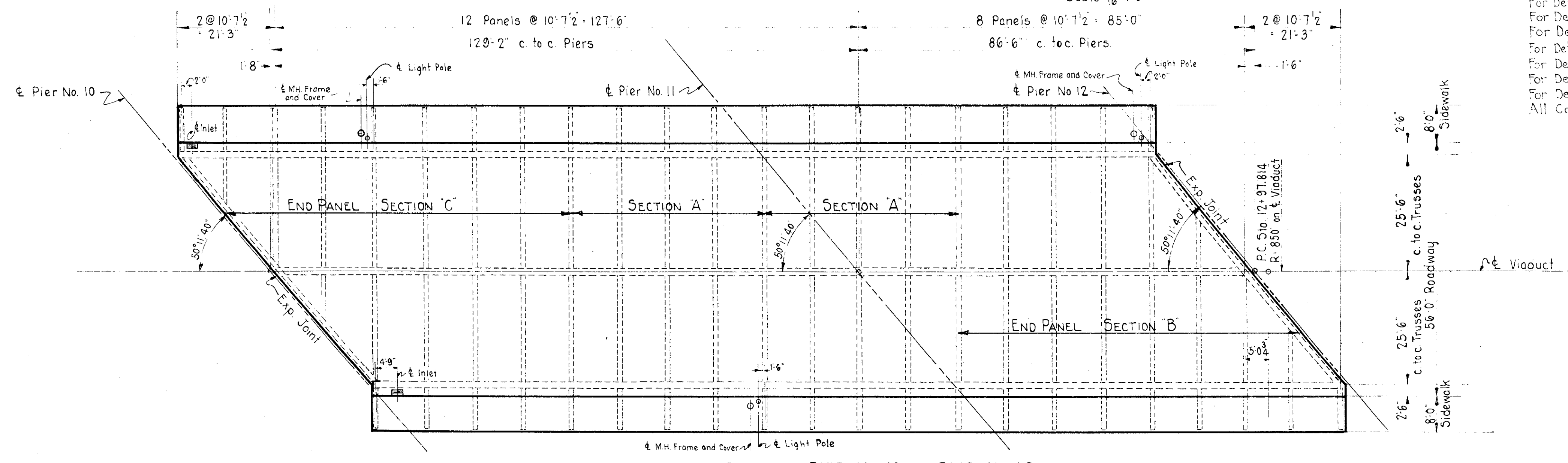
Acc. No. 5107 PRINT MADE



SLAB PLAN - PIER No. 5 TO PIER No. 7
Scale 1/6" = 1'-0"



SLAB PLAN - PIER No. 7 TO PIER No. 10
Scale 1/6" = 1'-0"



SLAB PLAN - PIER No. 10 TO PIER No. 12
Scale 1/6" = 1'-0"

General Notes:
 For General Plan see Acc. No. 5101.
 For Details of Slab Section 'A' see Acc. No. 5109.
 For Details of Slab Sections 'B' & 'C' see Acc. No. 5110.
 For Details and Bill of Reinforcing Steel see Acc. No. 5111.
 For Details of Expansion Joints see Acc. No. 5117.
 For Details of Deck Drainage see Acc. No. 5118.
 For Details of Lighting see Acc. No. 5119.
 For Details of Hand Rail see Acc. No. 5121 & 5122.
 All Concrete Mix 1:5 - see Specifications.

ESTIMATED QUANTITIES				
ITEM	UNIT	QUANTITIES		
		SPANS 5-7	SPANS 7-10	SPANS 10-12
Deck Concrete 1:5	cu.yd.	580	1276	580
Reinforcing Steel	lb.	96,800	212,250	96,800

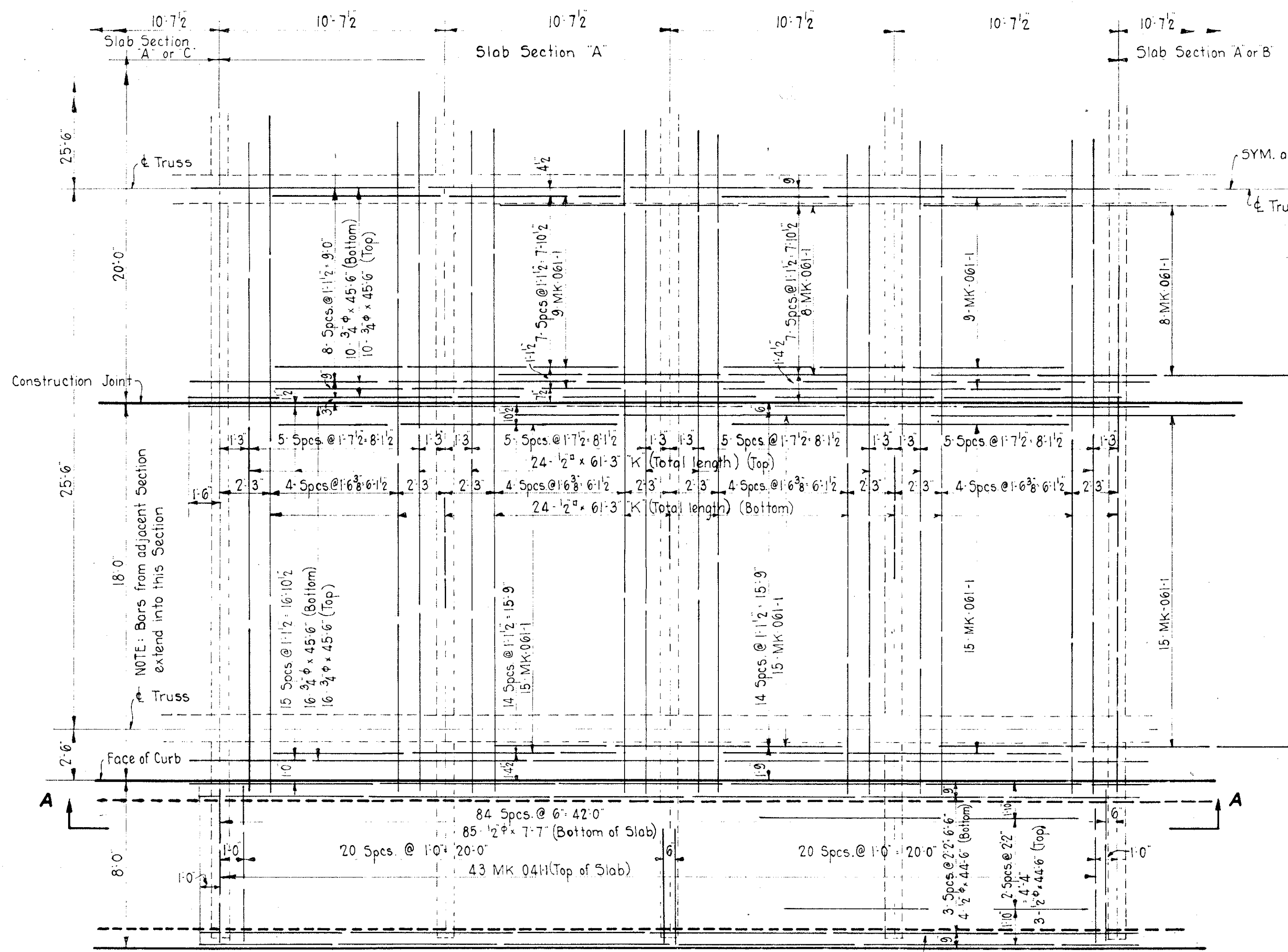
CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
SLAB PLAN
PIER No. 5 TO PIER No. 12

SCALE: 1/6" = 1'-0" AUG. 1, 1936 ISSUE:
 SUBMITTED: [Signature] SPECIAL INSPECTOR APPROVED: [Signature] ENGINEER IN CHARGE
 APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS APPROVED: [Signature] ACTING CITY MANAGER

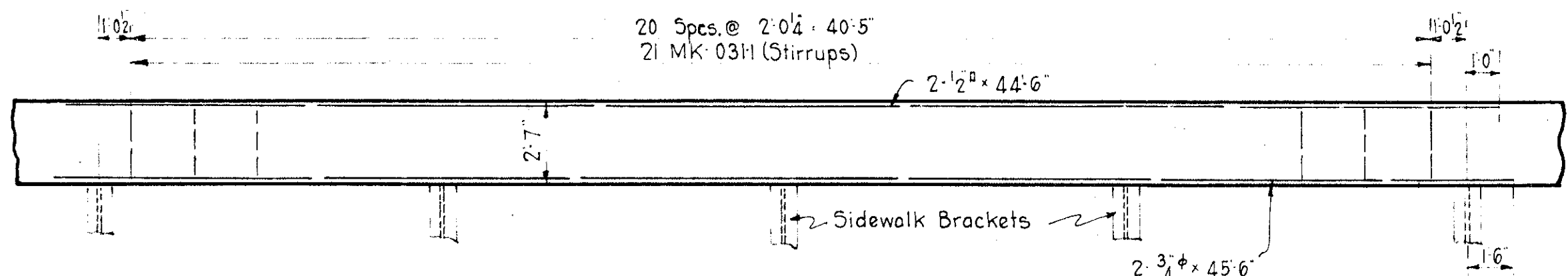
ISSUE No.	REVISION	DATE	SIG.	SIG.

Acc. No. 5108
 PRINT MADE

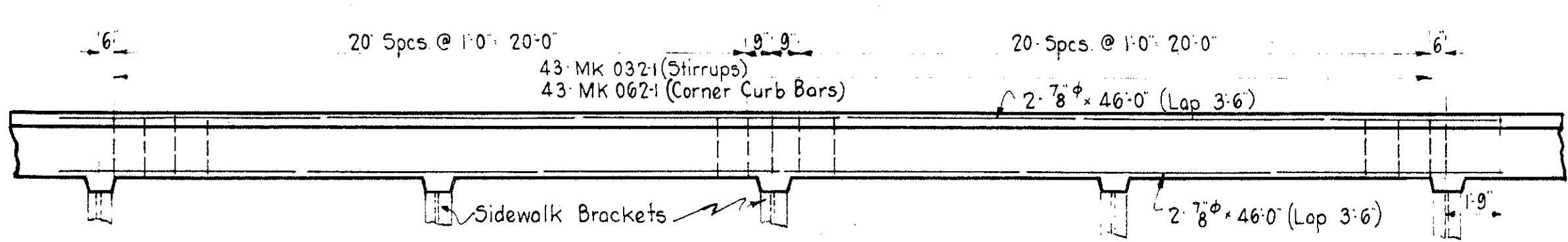
G.E.C.
 W.L.H.
 G.E.C.
 T.P.C.
 S.M.C.
 W.J.S.



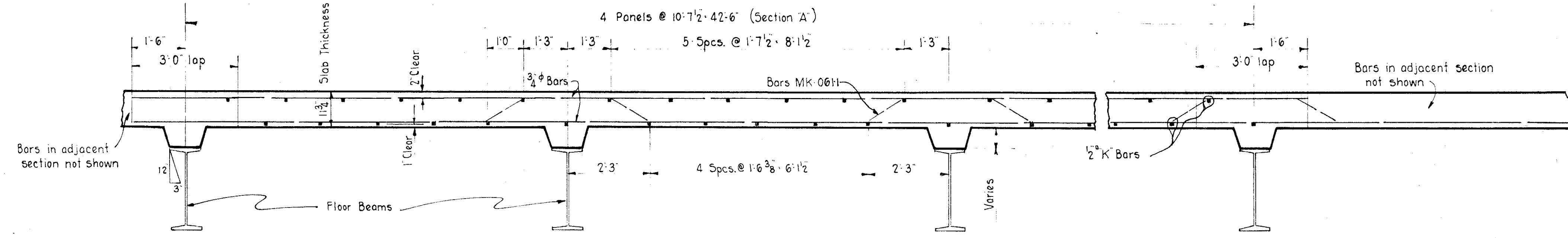
PLAN OF SLAB SECTION 'A'
Scale 1/4" = 1'-0"



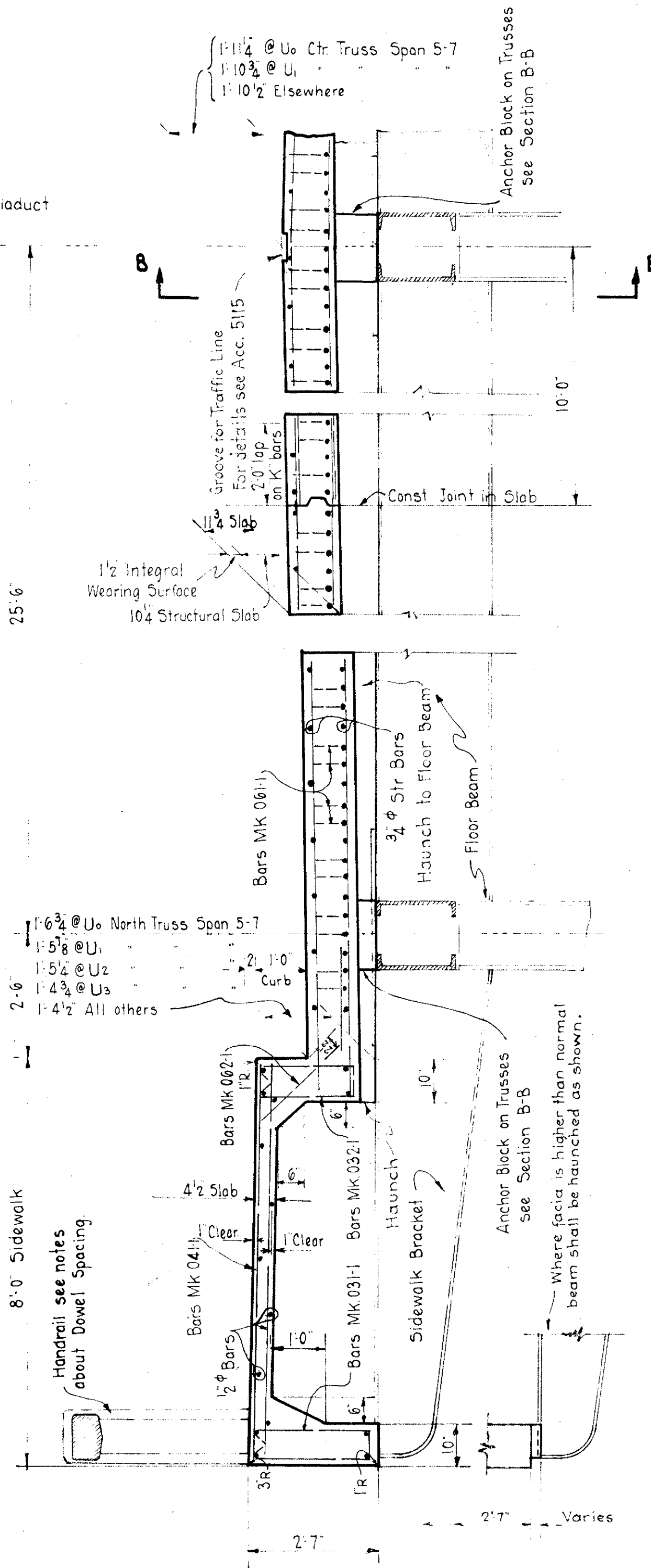
ELEVATION OF FACIA BEAM
Scale 1/4" = 1'-0"



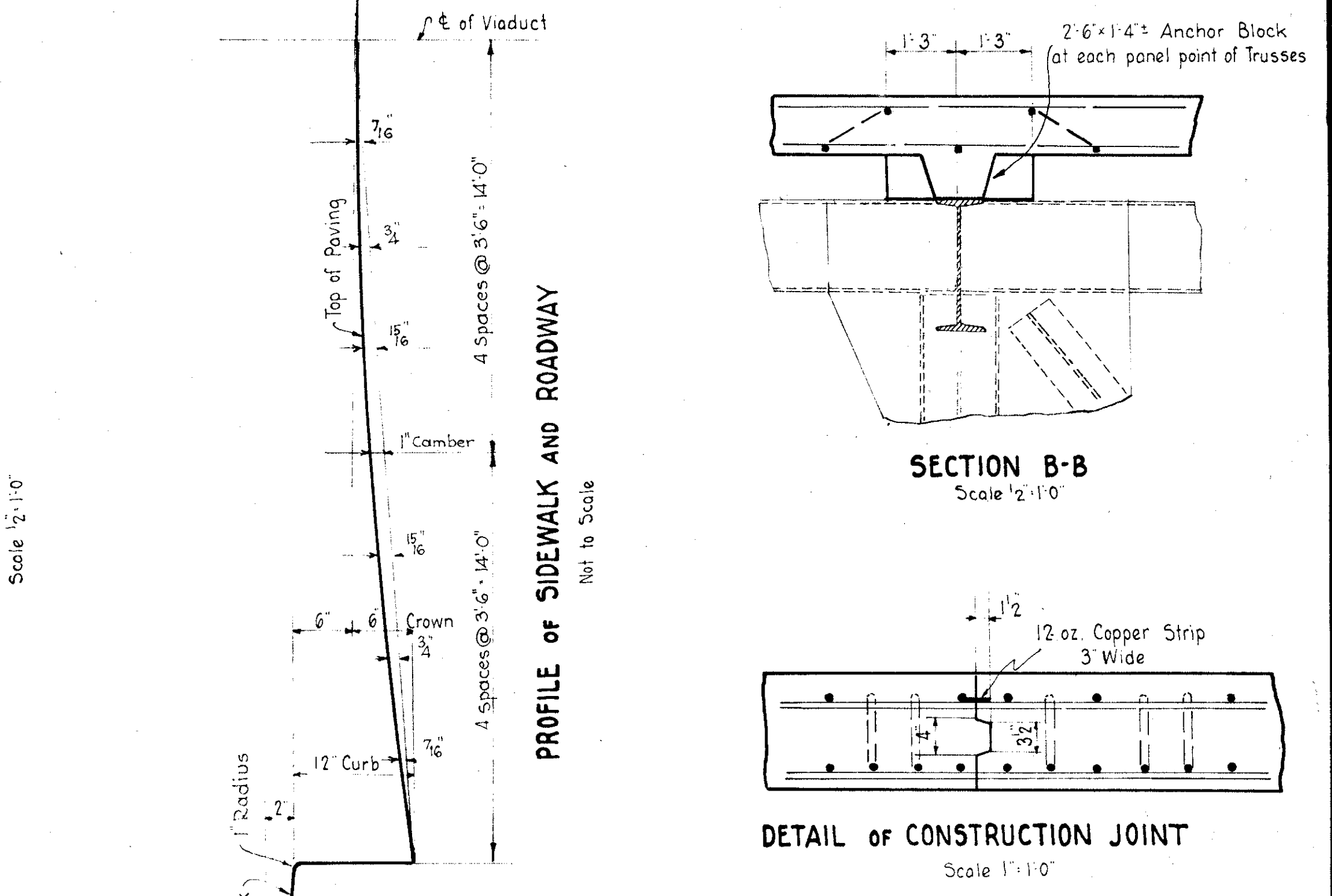
SECTION A-A SHOWING CURB BEAM
Scale 1/4" = 1'-0"



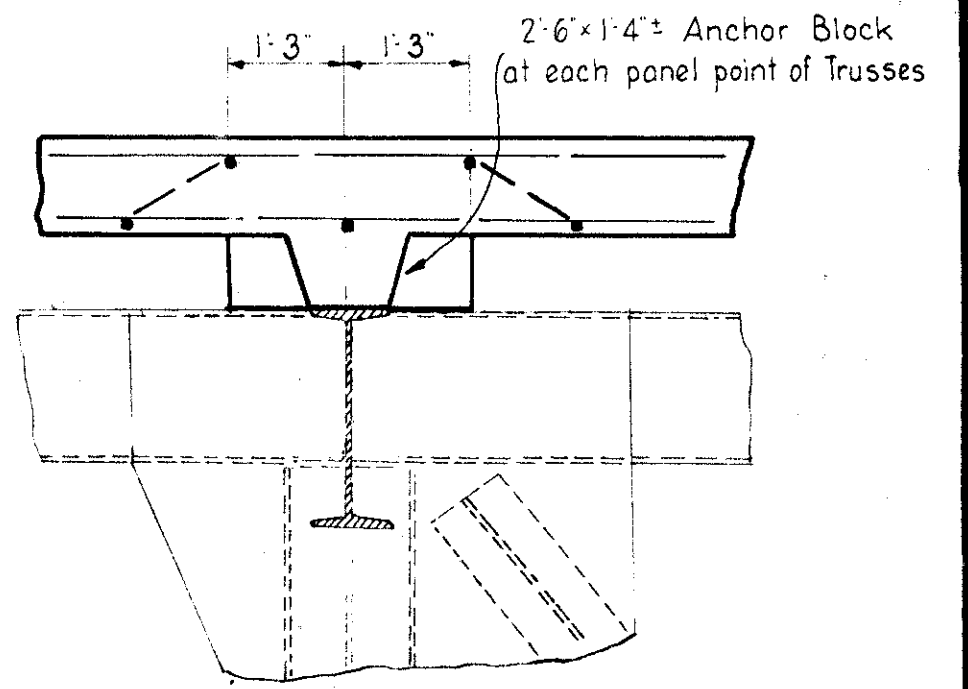
TYPICAL LONGITUDINAL SECTION
Scale 1/2" = 1'-0"



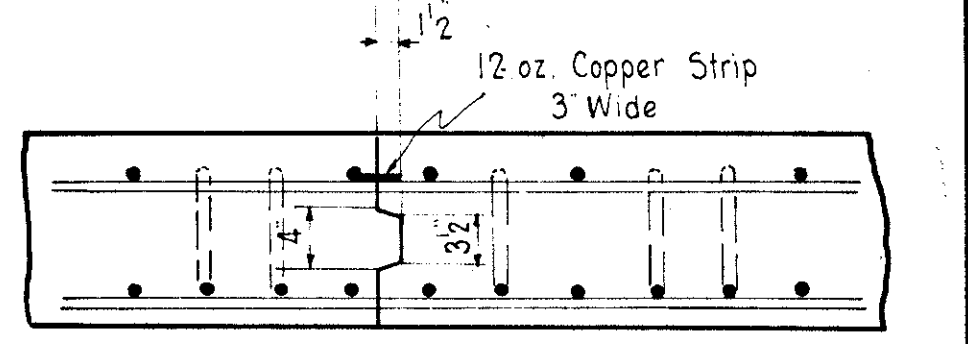
TYPICAL CROSS SECTION
Scale 1/2" = 1'-0"



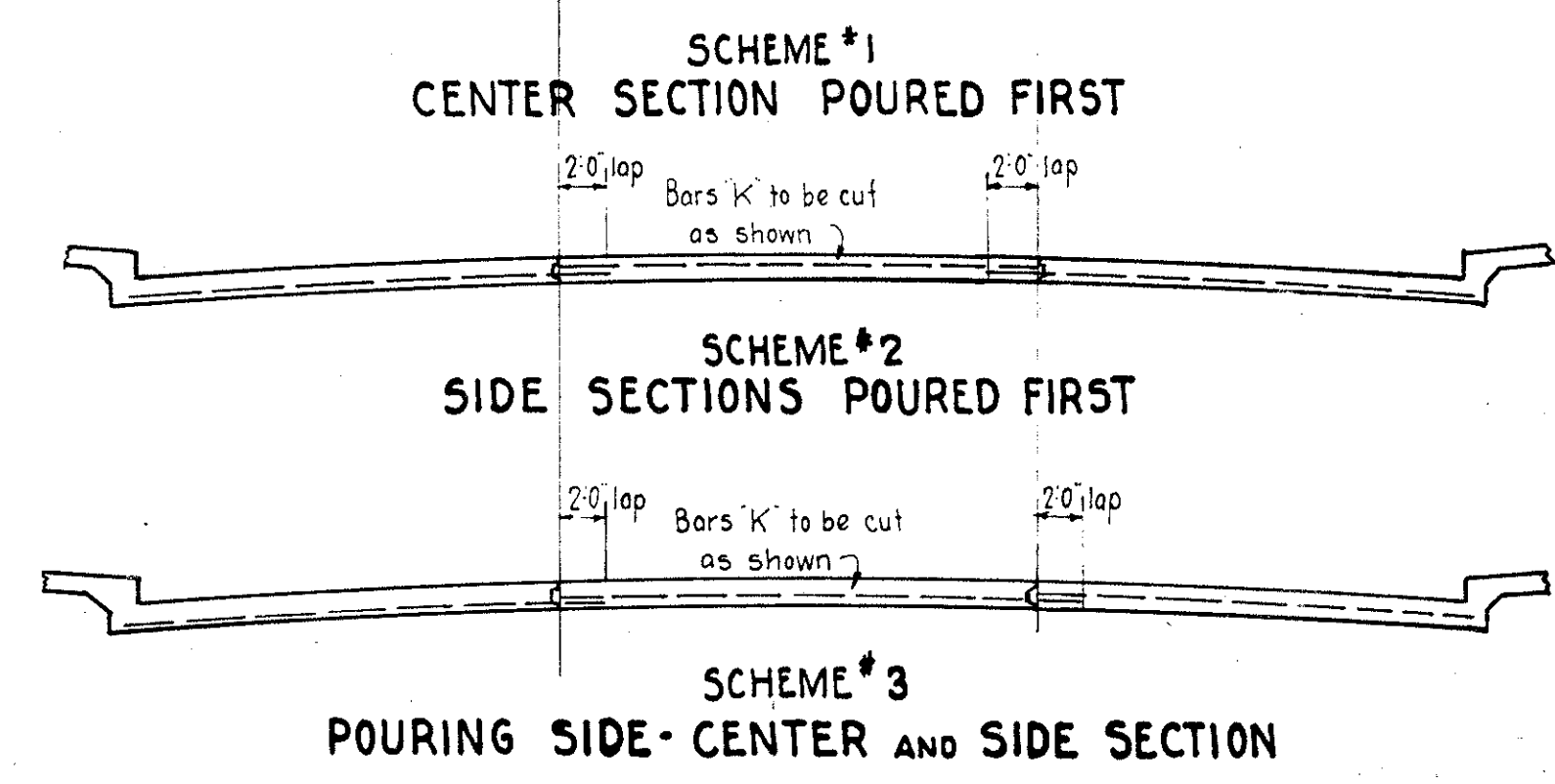
PROFILE OF SIDEWALK AND ROADWAY
Not to Scale



SECTION B-B
Scale 1/2" = 1'-0"



DETAIL OF CONSTRUCTION JOINT
Scale 1" = 1'-0"



SCHEME #1 CENTER SECTION POURED FIRST
SCHEME #2 SIDE SECTIONS POURED FIRST
SCHEME #3 POURING SIDE-CENTER AND SIDE SECTION

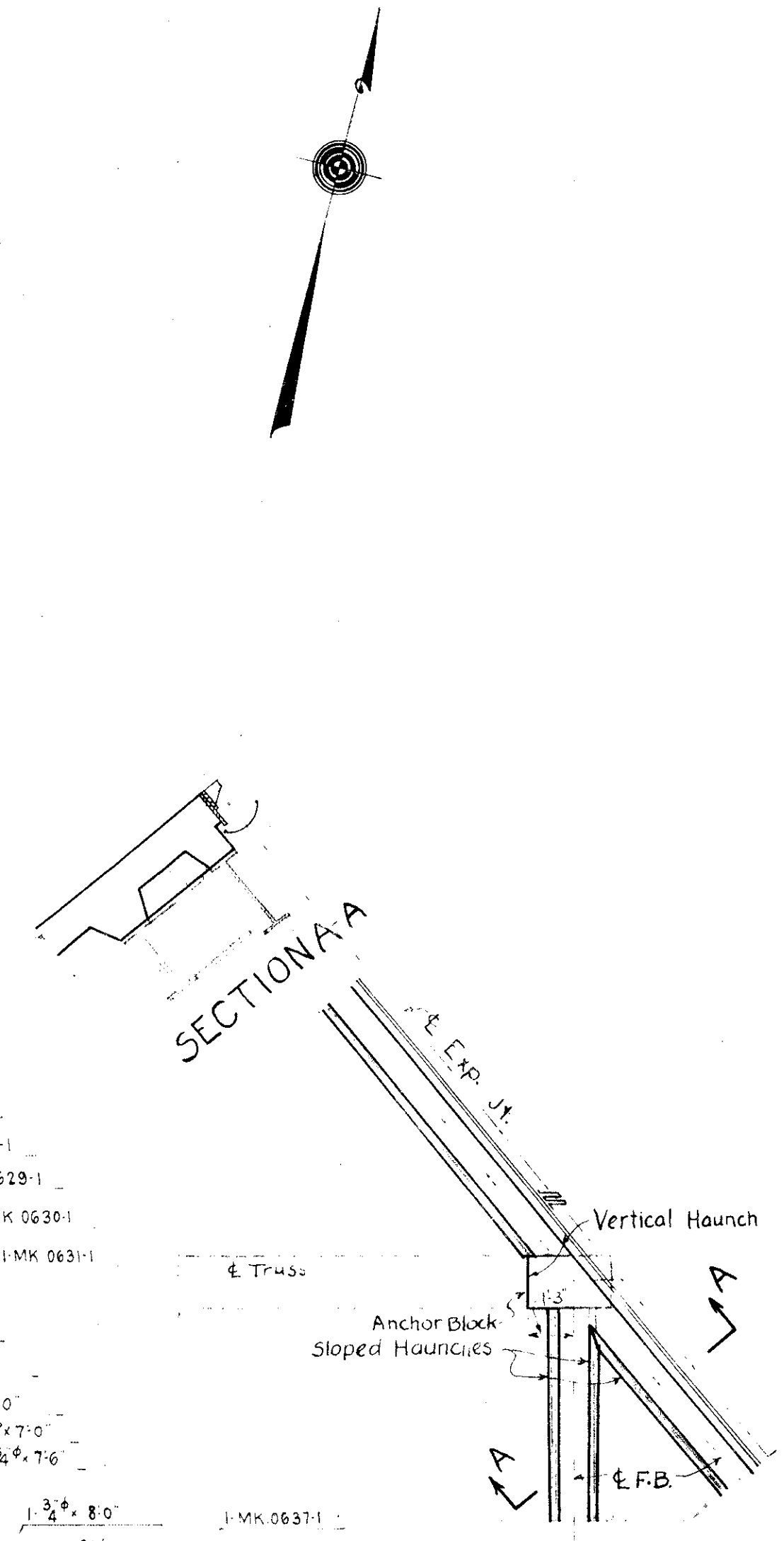
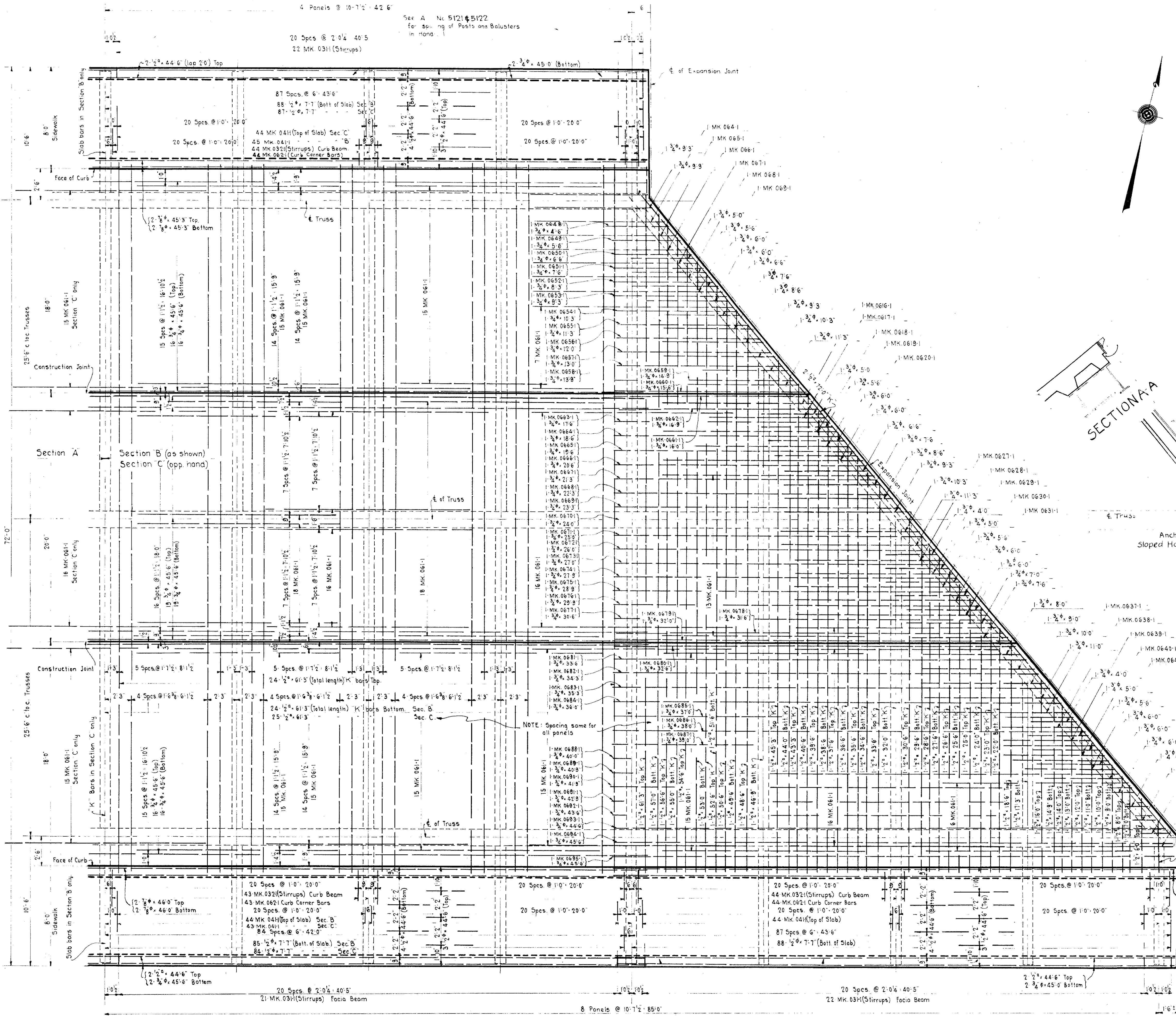
Diagrams showing Construction Joints and sequence of pouring Slab Sections. Contractor to have 'K' bars cut to reqd length.

General Notes:
For Slab Plan of Spans 5-7 to 10-12 incl. see Acc. No. 5108. The dimensions showing relation of deck surface to supporting steels are nominal dimensions, and subject to adjustment by the Engineer to reconcile irregularities in setting of structural steel.

Issue No.	REVISION	DATE	Sig.	Sig.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
DETAILS OF SLAB - PIER No. 5 TO PIER No. 12
TYPICAL SLAB - SECTION 'A'
SCALE: AS INDICATED AUG. 1, 1936 ISSUE: 1
SUBMITTED: *W. J. S. W. J. S.* SPECIAL ENGINEER
APPROVED: *W. J. S. W. J. S.* DIRECTOR OF PUBLIC WORKS
APPROVED: *W. J. S. W. J. S.* ACTING CITY MANAGER

Acc. No. 5109



DETAIL OF FORMWORK ON END FLOORBEAM AND ANCHOR BLOCK
Scale 1/4" = 1'-0"

General Notes:
For Slab Plan: Spans 5-7, 7-10 & 10-12 see Acc. No. 5108.

PLAN of SLAB SECTION "B"
SECTION "C" OPPOSITE HAND
Scale 1/4" = 1'-0"

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
DETAILS of SLAB - PIER No. 5 TO PIER No. 12
SLAB SECTIONS B & C.

SCALE: 1/4" = 1'-0" AUG. 1, 1936 ISSUE 1

SUBMITTED: *[Signature]*
SPECIAL ENGINEER
APPROVED: *[Signature]*
DIRECTOR OF PUBLIC WORKS
APPROVED: *[Signature]*
ACTING CITY MANAGER

ISSUE NO.	REVISION	DATE	SIG.	SIG.

Acc. No. 5110
PRINT MADE

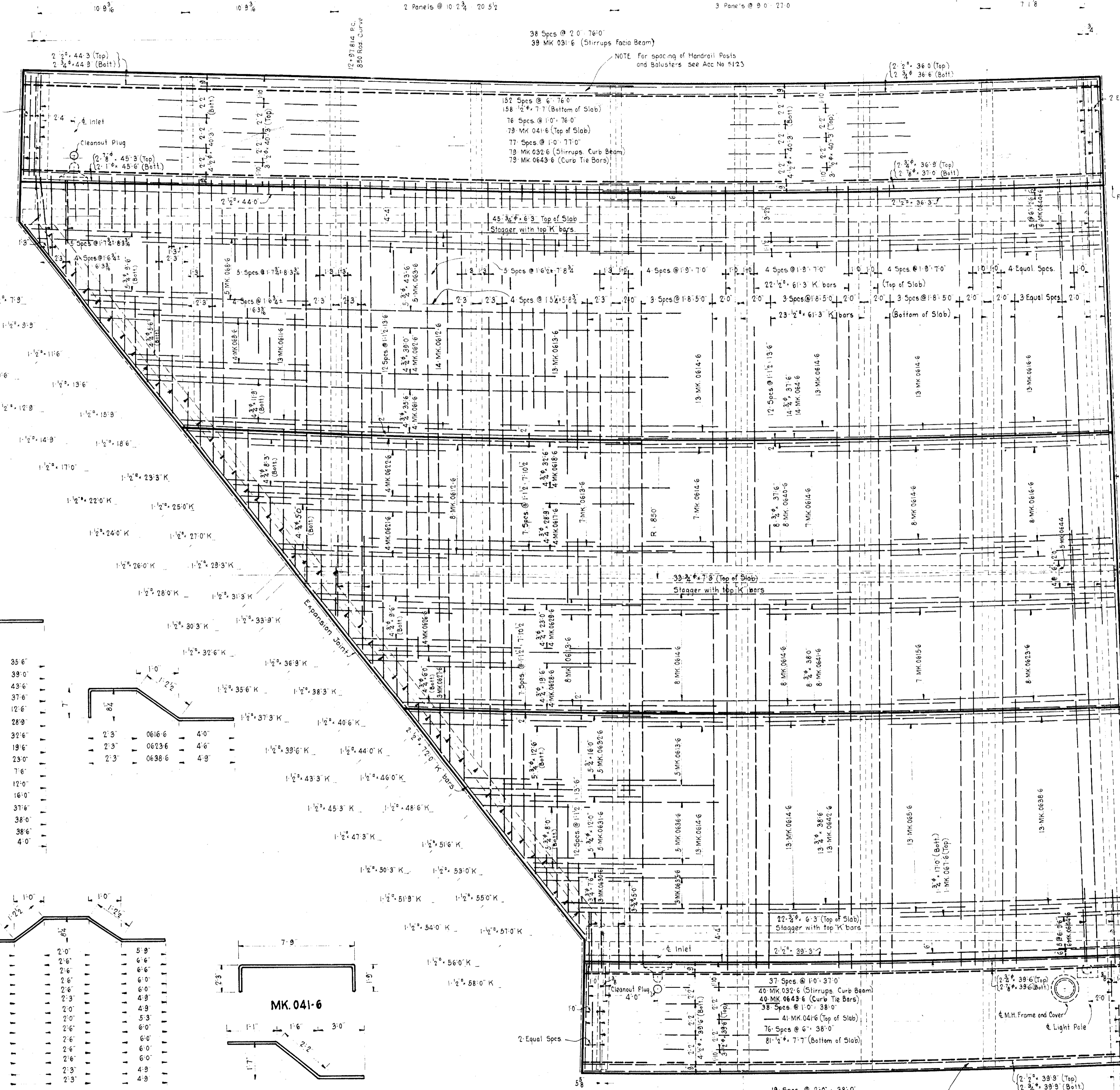
BILL of REINFORCING BARS

No	MARK	SIZE	LENGTH	LOCATION	No	MARK	SIZE	LENGTH	LOCATION
1	Str	1/2"	54.0	Transverse Rawly Slab	4	Str	3/4"	35.6	Longitudinal Rawly Slab
1	"	"	55.0	"	4	"	"	39.0	"
1	"	"	56.0	"	5	"	"	43.6	"
1	"	"	57.0	"	14	"	"	37.6	"
1	"	"	58.0	"	2	"	1/2"	44.0	"
2	"	"	72.0	"	2	"	"	36.3	"
1	5/8"	"	5.0	"	4	"	3/4"	28.0	"
1	"	"	6.6	"	4	"	"	32.6	"
1	"	"	7.3	"	8	"	"	37.6	"
1	"	"	8.6	"	4	"	"	19.6	"
1	"	"	9.9	"	4	"	"	23.0	"
1	"	"	10.6	"	8	"	"	36.0	"
1	"	"	11.6	"	3	"	"	7.6	"
1	"	"	12.9	"	5	"	"	12.0	"
1	"	"	13.6	"	5	"	"	16.0	"
1	"	"	14.9	"	13	"	"	38.6	"
1	"	"	15.0	"	2	"	1/2"	39.3	"
1	"	"	17.0	"	5	"	3/4"	8.6	"
1	"	"	18.6	"	4	"	"	5.6	"
67	"	3/4"	6.3	"	4	"	"	11.0	"
33	"	"	7.3	"	4	"	"	8.3	"
1	"	"	"	"	4	"	"	5.0	"
14	5/8"	1/2"	40.3	Longitudinal Deck Slab	4	"	"	9.6	"
7	"	"	39.6	"	4	"	"	6.0	"
239	"	"	7.7	Transverse	5	"	"	12.6	"
120	041-6	"	11.7	"	5	"	"	8.0	"
2	Str	1/2"	44.3	Longitudinal Facia Beam	4	0616-6	"	36.0	"
2	"	"	36.0	"	4	0626-6	"	39.6	"
2	"	"	39.9	"	5	0636-6	"	44.0	"
2	"	3/4"	44.9	"	14	0646-6	"	38.0	"
2	"	"	36.6	"	13	0656-6	"	14.10	"
2	"	"	39.9	"	1	0676-6	"	13.0	"
88	031-6	3/4"	5.7	Stirrups	5	0686-6	"	16.10	"
2	Str	3/4"	45.3	Longitudinal Curb Beam	4	0696-6	"	13.1	"
2	"	3/4"	36.3	"	13	0611-6	"	17.4	"
2	"	"	39.6	"	22	0612-6	"	16.10	"
2	"	"	39.6	"	33	0613-6	"	15.4	"
2	"	"	45.6	"	103	0614-6	"	13.10	"
2	"	1/2"	37.0	"	7	0615-6	"	14.4	"
2	"	"	39.6	"	21	0616-6	"	7.11	"
119	037-6	3/4"	4.5	Stirrups	4	0617-6	"	29.3	"
119	0643-6	3/4"	6.3	Curb Tie Bars	4	0618-6	"	33.0	"
2	"	"	"	"	4	0621-6	"	12.1	"
28	41-6	1/2"	5.6	Handrail Posts	4	0622-6	"	15.7	"
28	Str	"	5.6	"	8	0623-6	"	8.5	"
256	"	"	5.4	Balusters	4	0626-6	"	16.1	"
					3	0627-6	"	13.7	"
					4	0628-6	"	20.0	"
					4	0629-6	"	23.6	"
					3	0630-6	"	8.0	"
					5	0631-6	"	12.6	"
					5	0632-6	"	16.6	"
					3	0635-6	"	11.1	"
					5	0636-6	"	13.7	"
					13	0638-6	"	8.8	"
					8	0640-6	"	38.0	"
					8	0641-6	"	38.6	"
					12	0642-6	"	33.0	"
					17	0644-6	"	4.6	"
					45	Str	1/2"	61.3	Transverse
					1	"	"	22.0	"
					1	"	"	23.3	"
					1	"	"	24.0	"
					1	"	"	25.0	"
					1	"	"	26.0	"
					1	"	"	27.0	"
					1	"	"	28.0	"
					1	"	"	29.3	"
					1	"	"	30.3	"
					1	"	"	31.3	"
					1	"	"	32.6	"
					1	"	"	33.9	"
					1	"	"	35.6	"
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					1	"	"	40.6	"
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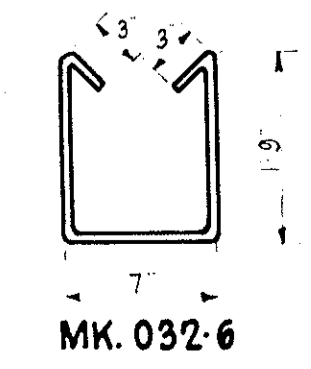
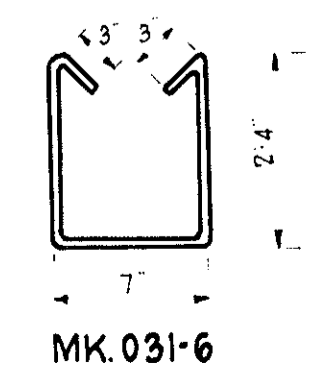
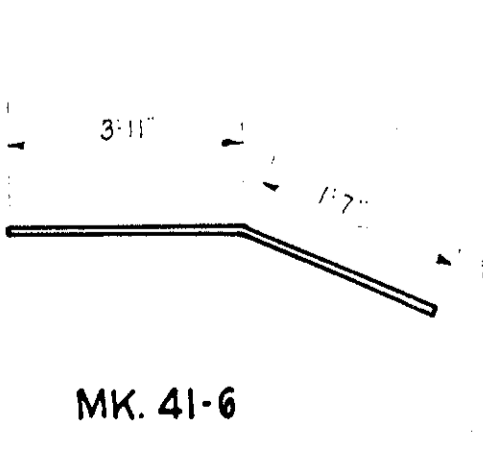
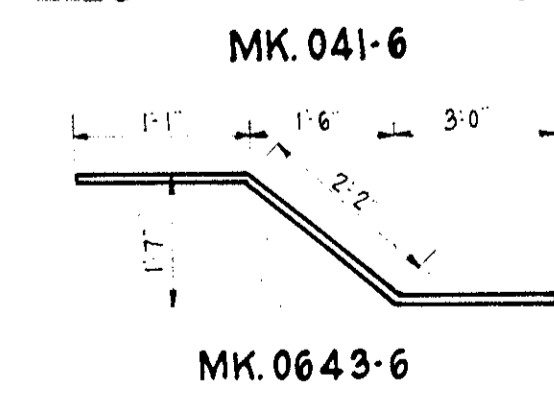
ESTIMATED QUANTITIES

ITEM	UNIT	QUAN.
Deck Concrete 1:5	Cu Yd.	157
Reinforcing Steel	Lb.	26,350

General Notes:
 For General Plan see Acc. No. 5101.
 For Details of Expansion Joints see Acc. No. 5116.
 For Details of Deck Drainage see Acc. No. 5118.
 For Details of Lighting see Acc. No. 5119.
 For Details of Handrail see Acc. No. 5123.
 For Typical Details and Cross-sections of Deck see Acc. No. 5115.
 All Concrete Mix 1:5 - see Specifications.



061-6	35'6"
062-6	39'0"
063-6	43'6"
064-6	37'6"
067-6	12'6"
0611-6	28'9"
0616-6	39'6"
0628-6	19'6"
0629-6	23'0"
0630-6	7'6"
0631-6	12'0"
0632-6	16'0"
0640-6	37'6"
0641-6	38'0"
0642-6	38'6"
0644-6	4'0"



PLAN of FLOOR SLAB
 Scale 1/4"=1'-0"

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
DETAILS of SLAB
SPAN 12'-13

SCALE 1/4"=1'-0" AUG. 1, 1936

SUBMITTED: *[Signature]* SPECIAL ENGINEER

APPROVED: *[Signature]* ENGINEER OF HIGHWAYS

APPROVED: *[Signature]* DIRECTOR OF PUBLIC WORKS

APPROVED: *[Signature]* ACTING CITY MANAGER

Acc. No. 5112

ISSUE No	REVISION	DATE	Sig	Sig

38 Spcs @ 2'0" 76'0"
41 MK 031-7 (Stirrups Face Beam)

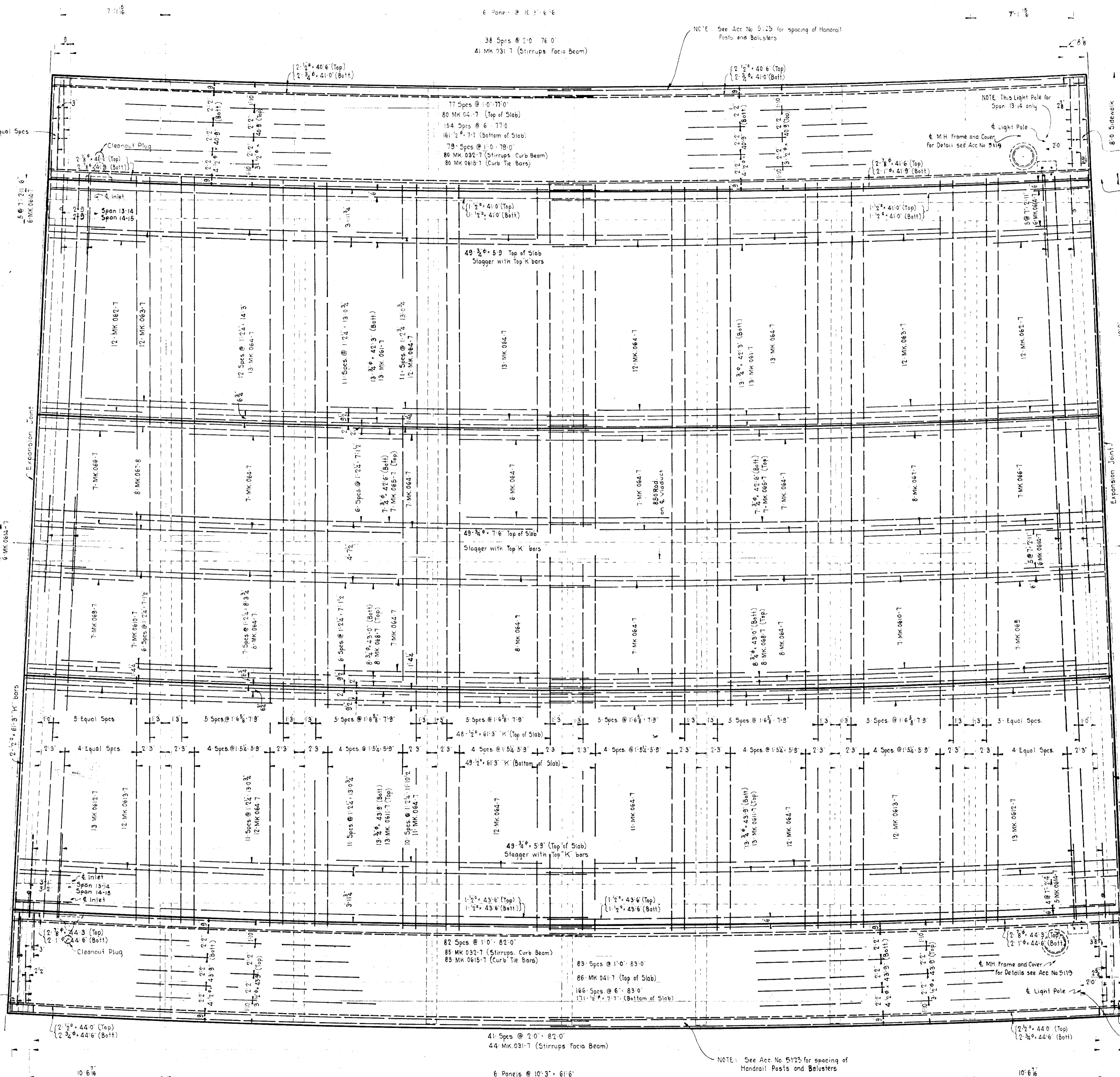
NOTE: See Acc No 5123 for spacing of Handrail Posts and Balusters

NOTE: This Light Pole for Span 13-14 only
M.H. Frame and Cover For Details see Acc No 5119

NOTE: This Light Pole for Span 14-15 only
M.H. Frame and Cover For Details see Acc No 5119

NOTE: See Acc No 5123 for spacing of Handrail Posts and Balusters

NOTE: This Light Pole for Span 14-15 only



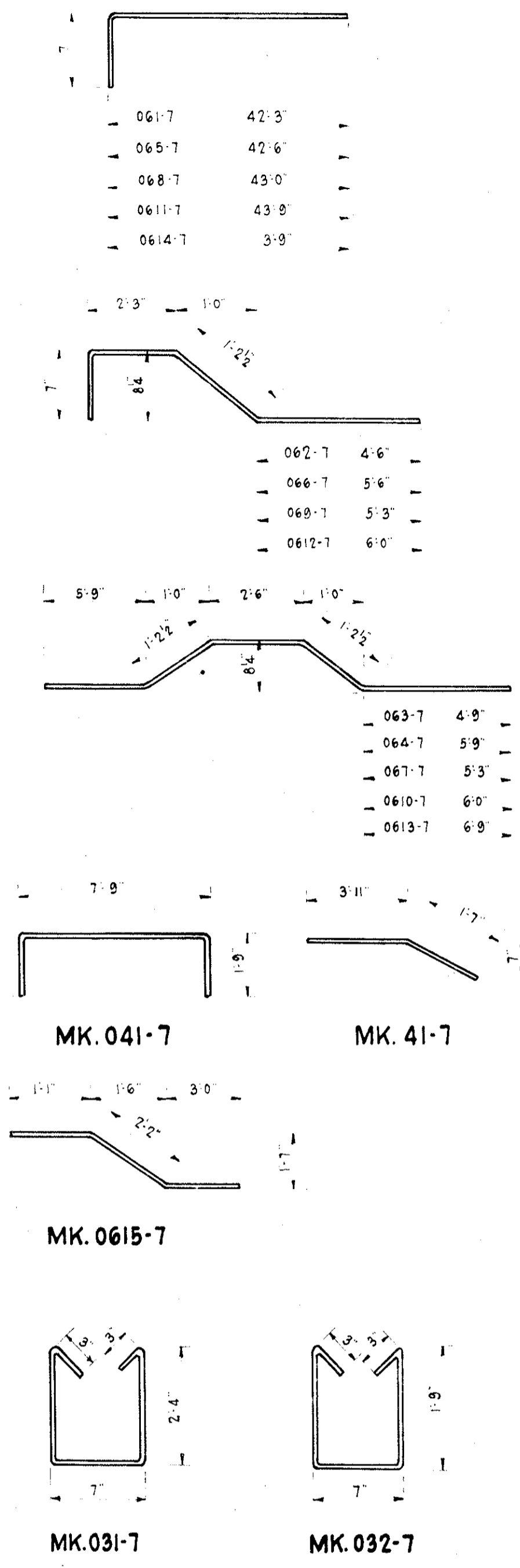
PLAN OF FLOOR SLAB

Scale 1/4" = 1'-0"

ISSUE NO.	REVISION	DATE	SIG	SIG

BILL OF REINFORCING STEEL

Span 13-14 No	Span 14-15 No	Mark	Size	Length	Location
26	26	Str.	3/4"	42'3"	Long Rdwy Slab
14	14	-	-	42'6"	-
16	16	-	-	43'0"	-
26	26	-	-	43'9"	-
26	26	061-7	-	42'9"	-
24	24	062-7	-	8'5"	-
24	24	063-7	-	15'5"	-
061-7	061-7	-	-	43'9"	-
193	193	064-7	-	16'5"	-
14	14	065-7	-	43'0"	-
14	14	066-7	-	9'5"	-
16	16	067-7	-	15'11"	-
16	16	068-7	-	43'6"	-
14	14	069-7	-	9'2"	-
14	14	0610-7	-	16'8"	-
26	26	0611-7	-	44'3"	-
26	26	0612-7	-	9'11"	-
24	24	0613-7	-	17'5"	-
4	4	Str.	2"	43'6"	-
4	4	-	-	41'0"	-
34	34	0614-7	3/4"	4'3"	-
101	101	Str. K	2"	61'3"	Trans.
98	98	Str.	3/4"	5'9"	-
49	49	-	-	7'6"	-
14	14	Str.	1/2"	40'9"	Long Sidwk Slab
14	14	-	-	43'9"	-
332	332	-	-	7'7"	Trans.
166	166	041-7	-	11'7"	-
4	4	Str.	1/2"	40'6"	Long Face Beams
4	4	-	-	41'0"	-
4	4	-	-	44'0"	-
4	4	-	-	44'6"	-
85	85	031-7	3/8"	5'7"	Stirrups
2	2	Str.	3/8"	41'6"	Long Curb Beams
2	2	-	-	41'9"	-
2	2	-	-	44'3"	-
2	2	-	-	44'6"	-
165	165	032-7	3/8"	4'5"	Stirrups
165	165	0615-7	3/4"	6'3"	Curb Tie Bars
36	44	41-7	1/2"	5'6"	Handrail Posts
36	44	Str.	-	5'6"	-
352	324	-	-	5'4"	Balusters



ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITIES
Deck Concrete, 1:5	cuyd.	216 216
Reinforcing Steel	lb.	34,850 34,800

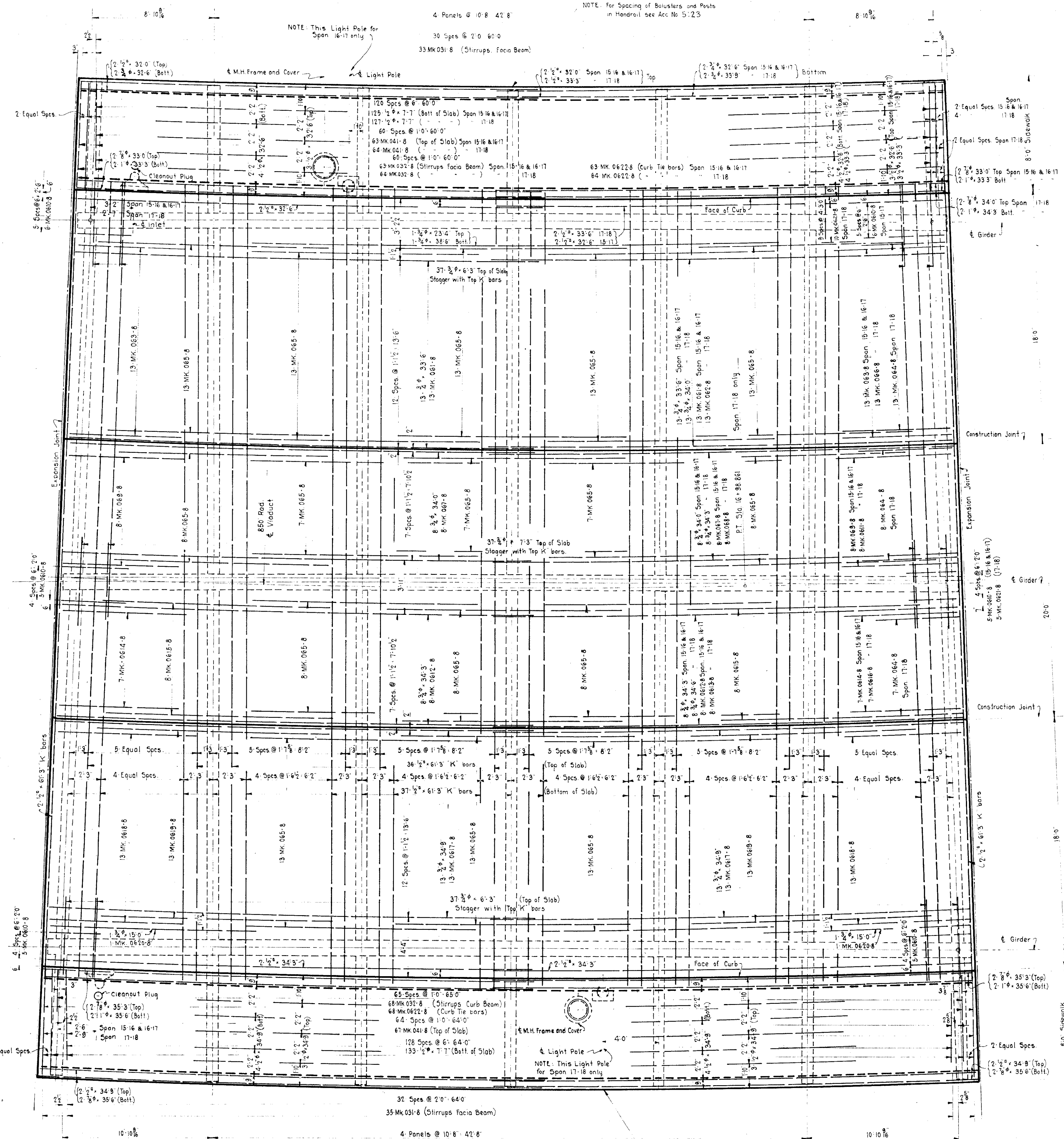
General Notes:
For General Plan see Acc. No. 5101.
For Details of Expansion Joints see Acc. No. 5116.
For Details of Deck Drainage see Acc. No. 5118.
For Details of Lighting see Acc. No. 5119.
For Details of Handrail see Acc. No. 5123.
For Typical Details and Cross-Sections of Decks see Acc. No. 5115.
For Details of Stairway at Kilgour Street see Acc. No. 5120.
All Concrete Mix 1:5 - see specifications.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
DETAILS OF SLAB
SPANS 13-14 AND 14-15

SCALE 1/4" = 1'-0" AUG. 1, 1936 ISSUE 1

SUBMITTED: [Signature] SPECIAL ENGINEER
APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS
APPROVED: [Signature] ACTING CITY MANAGER

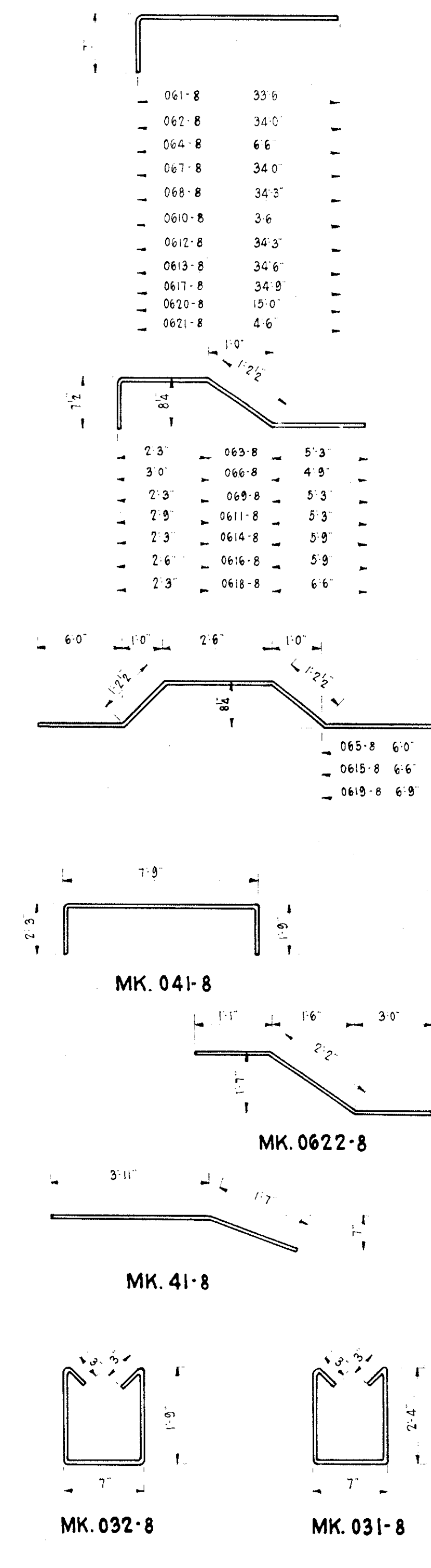
Acc. No. 5113
PRINT MADE



PLAN OF FLOOR SLAB
Scale 1/4" = 1'-0"

BILL OF REINFORCING STEEL

15-16 No.	16-17 No.	17-18 No.	MARK	SIZE	LENGTH	LOCATION
26	26	13	Str.	3/4"	33.6	Longitudinal Rdwy Slab
					34.0	
					23.4	
16	16	8			34.0	
					34.3	
16	16	8			34.6	
					34.9	
26	26	26			34.9	
2	2	2			15.0	
26	26	13	061-8		34.0	
					34.6	
26	26	13	062-8		34.6	
					9.3	
					7.0	
165	165	165	065-8		16.11	
					9.6	
16	16	8	067-8		34.6	
					34.9	
16	16	8	068-8		9.3	
32	32	21	0610-8		4.0	
					5.3	
16	16	8	0611-8		5.3	
					5.9	
14	14	7	0614-8		9.9	
16	16	16	0615-8		34.9	
					35.0	
14	14	7	0614-8		9.9	
16	16	16	0615-8		17.5	
					10.0	
26	26	26	0617-8		35.3	
26	26	26	0618-8		10.6	
26	26	26	0619-8		17.8	
2	2	2	0620-8		15.6	
					5.0	
1	1	1	Str.		38.6	
4	4	2		1/2"	32.6	
					33.6	
4	4	4			34.3	
77	77	77	Str. K		61.3	Transverse Rdwy Slab
74	74	74	Str.	3/4"	6.3	
37	37	37			7.3	
14	14	7		1/2"	32.6	Longitudinal Sdkw Slab
					33.3	
14	14	14			34.9	
258	258	260			7.7	Transverse Sdkw Slab
130	130	131	041-8		11.7	
4	4	2	Str.	1/2"	32.0	Longitudinal Facia Beam
					33.3	
4	4	4			34.9	
4	4	2		3/8"	32.6	
					33.9	
4	4	4		7/8"	35.6	
4	4	4			35.6	
68	68	68	031-8	3/8"	5.7	Stirrups
4	4	2	Str.	1"	33.3	Longitudinal Curb Beams
4	4	2		7/8"	33.0	
					34.0	
					34.3	
4	4	4		7/8"	35.3	
4	4	4			35.6	
131	131	132	032-8	3/8"	4.5	Stirrups
131	131	132	0622-8	3/4"	6.3	Curb Tie Bars
28	28	22	Str.	1/2"	5.6	Handrail Posts
28	28	22	41-8		5.6	
288	288	300	Str.		5.4	Balusters



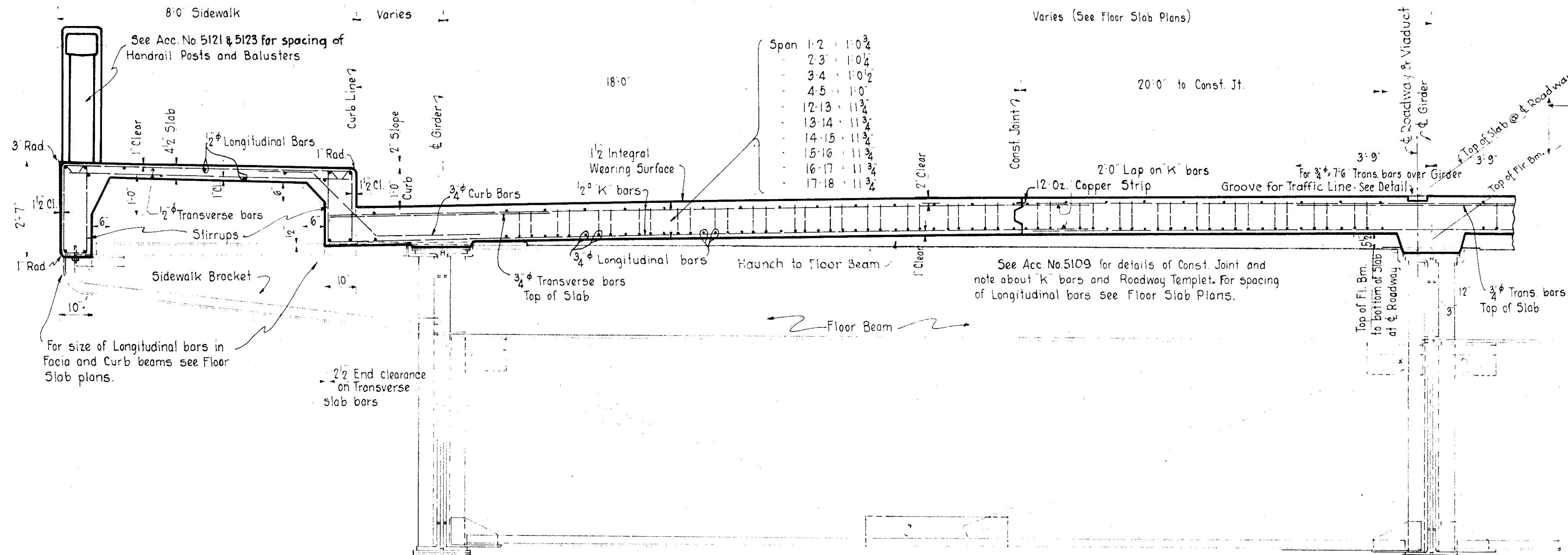
General Notes:
 For General Plan see Acc. No. 5101.
 For Details of Expansion Joints see Acc. No. 5116.
 For Details of Deck Drainage see Acc. No. 5118.
 For Details of Lighting see Acc. No. 5119.
 For Details of Handrail see Acc. No. 5123.
 For Typical Details and Cross sections of Deck see Acc. No. 5115.
 For Paving Plan of East Approach see Acc. No. 5125.
 All Concrete Mix 1:5 - see Specifications.

ESTIMATED QUANTITIES

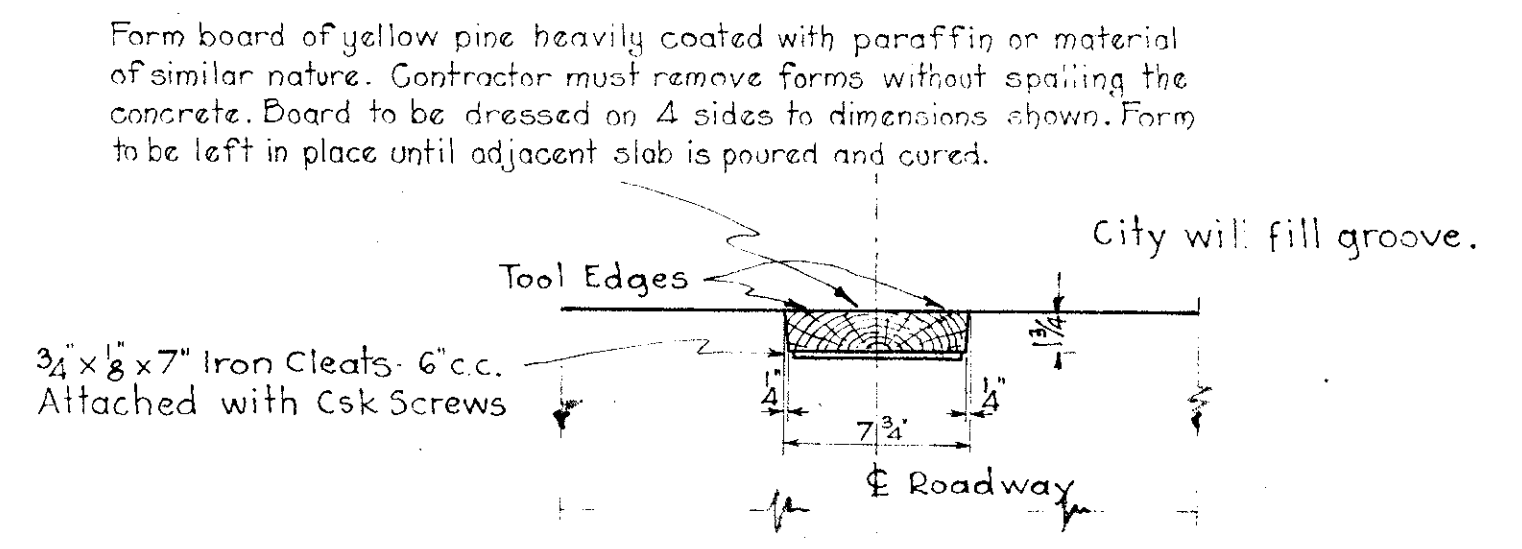
ITEM	UNIT	QUANTITIES		
		SPAN 15-16	SPAN 16-17	SPAN 17-18
Deck Concrete	cu.yd.	170	170	170
Reinforcing Steel	lb.	29,000	29,000	29,400

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
DETAILS OF SLAB
SPANS 15-16, 16-17 AND 17-18
 SCALE: 1/4" = 1'-0" AUG. 1, 1936 ISSUE 1
 SUBMITTED: [Signature]
 APPROVED: [Signature] ENGINEER OF HIGHWAYS
 APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS
 APPROVED: [Signature] ACTING CITY MANAGER

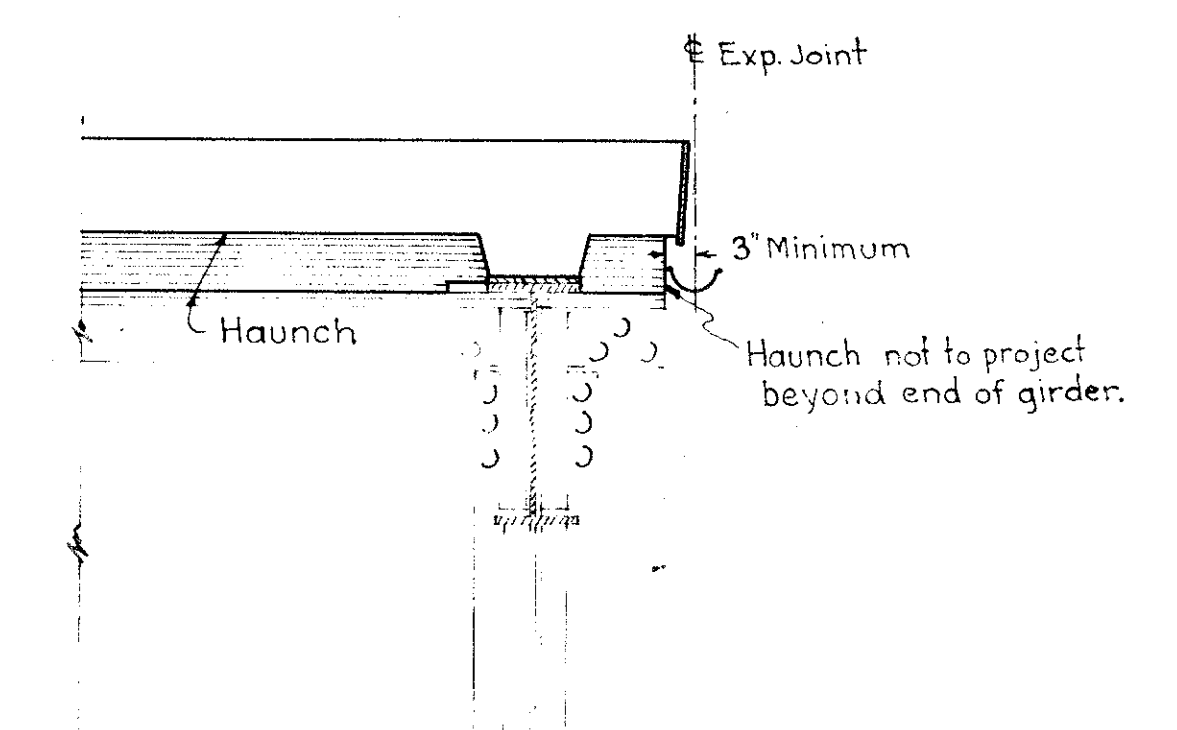
Issue No.	REVISION	DATE	Sig.	Sig.



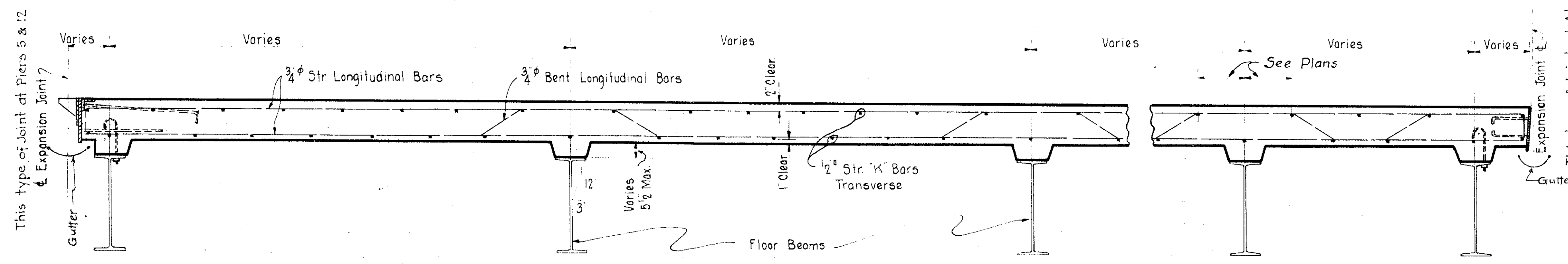
PART TYPICAL CROSS SECTION FOR SLABS ON GIRDER SPANS
Scale 1/2" = 1'-0"



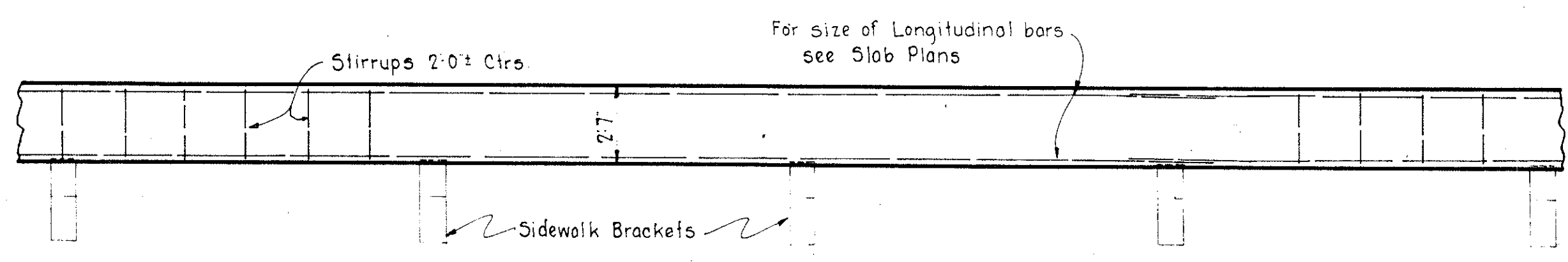
DETAIL OF GROOVE FOR TRAFFIC LINE
Scale 1 1/2" = 1'-0"



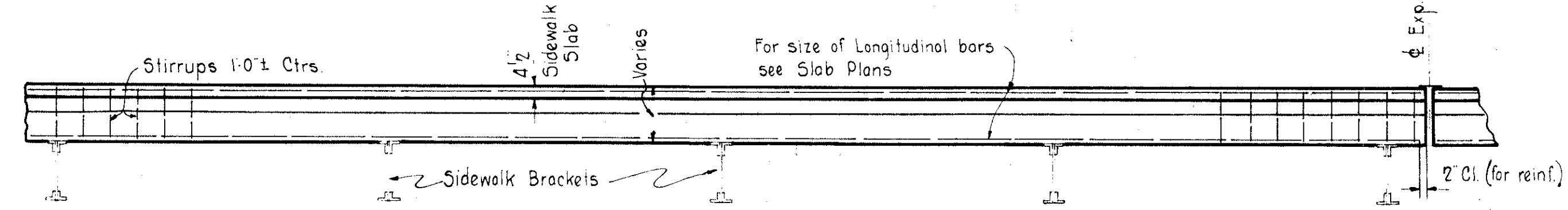
DETAIL OF HAUNCH AT END OF GIRDER
Scale 1/2" = 1'-0"



TYPICAL LONGITUDINAL SECTION FOR SLABS ON GIRDER SPANS
Scale 1/2" = 1'-0"



TYPICAL ELEVATION OF FACIA BEAM
Scale 1/4" = 1'-0"



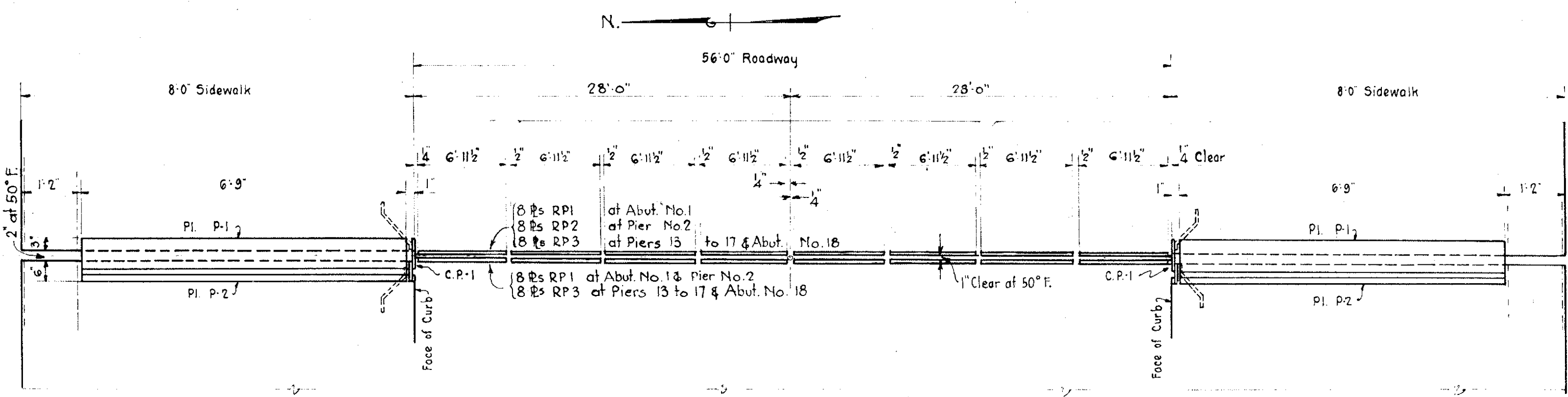
TYPICAL ELEVATION OF CURB BEAM
Scale 1/4" = 1'-0"

General Notes:
The details shown on this sheet are typical for all slabs on girder spans - see Acc. Nos. 5103, 5104, 5105, 5106, 5112, 5113, 5114.
Dimensions showing relation between deck surface and supporting steel are nominal dimensions, and subject to adjustment by the Engineer to reconcile irregularities in setting of structural steel.

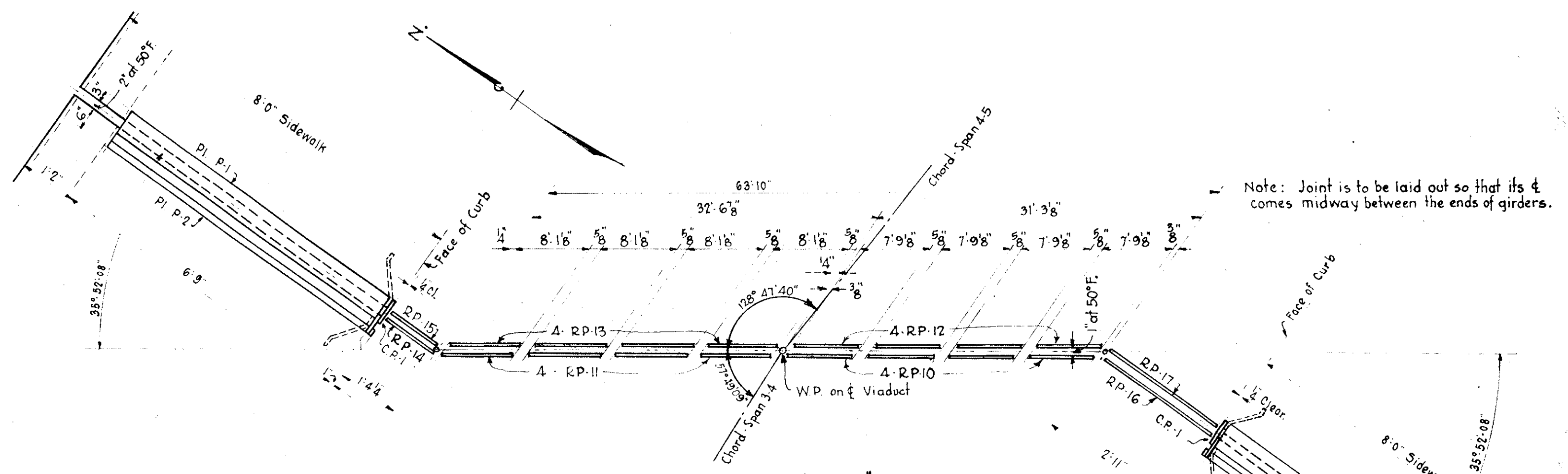
ISSUE No.	REVISION	DATE	SIG.	SIG.
	Traffic Line Groove	June 16, 1937	W.L.H.	

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
FLOOR SLABS SUPPORTED ON GIRDERS
TYPICAL DETAILS
SCALE: INDICATED AUG. 1, 1936 ISSUE:
SUBMITTED: [Signature] SPECIAL ENGINEER APPROVED: [Signature] ENGINEER OF HIGHWAYS
APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS APPROVED: [Signature] ACTING CITY MANAGER

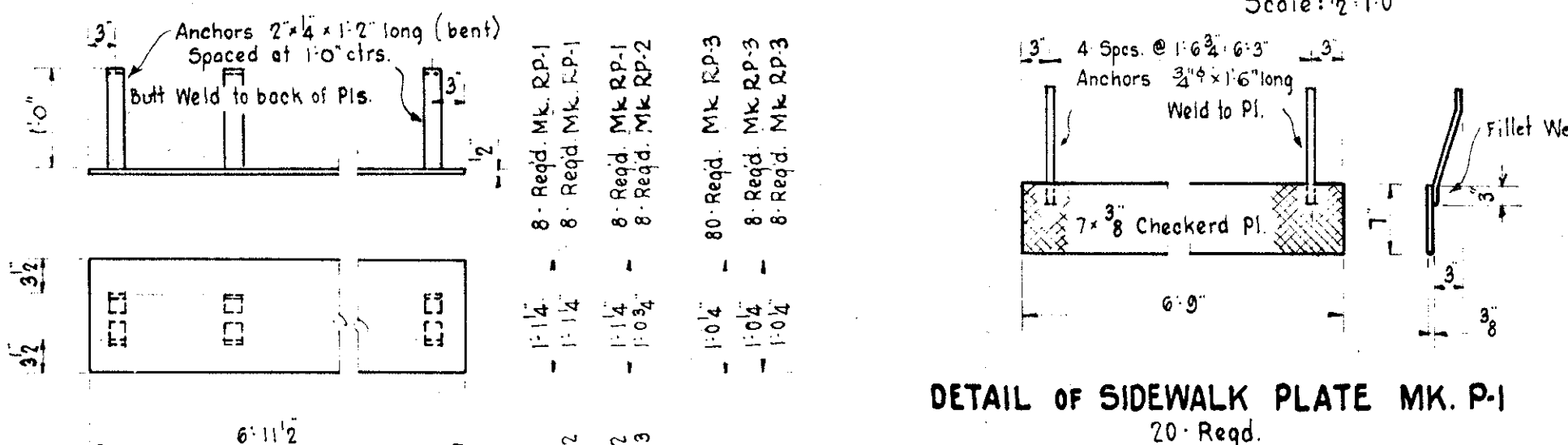
Acc. No. 5115
PRINT MADE



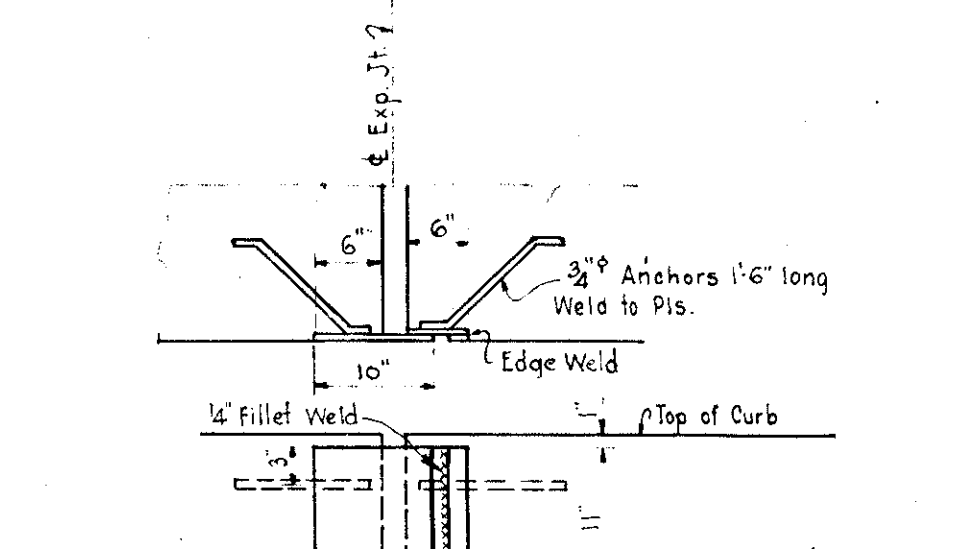
TYPICAL PLAN OF EXPANSION JOINT AT ABUT. #1, PIER #2-13-14-15-16-17 AND ABUT. #18



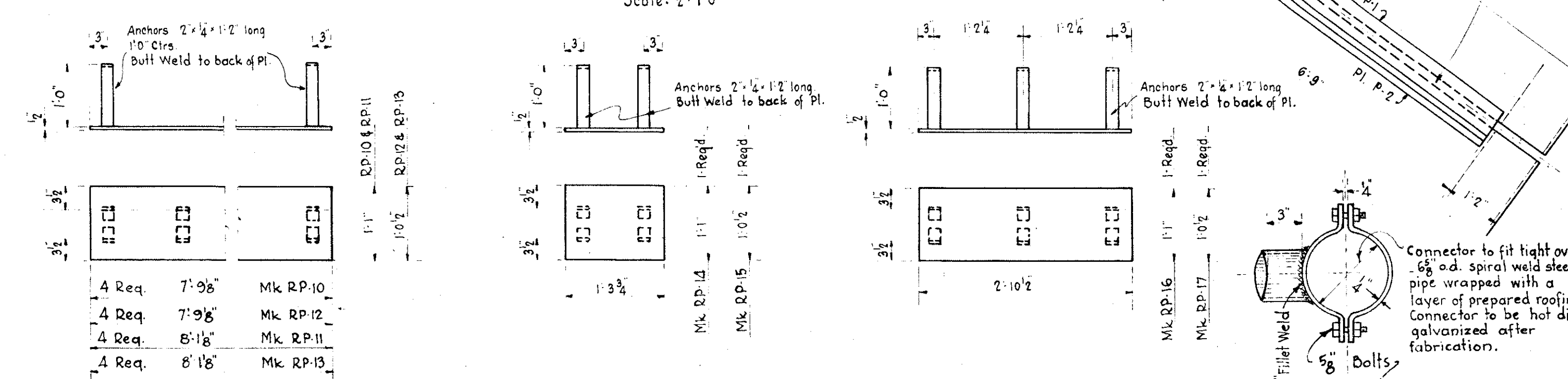
PLAN OF EXPANSION JOINT AT PIER #4



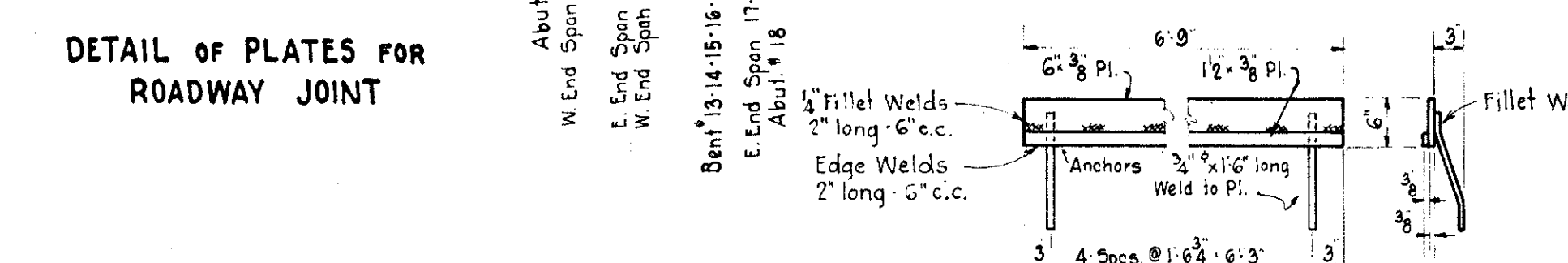
DETAIL OF SIDEWALK PLATE MK. P-1



DETAIL OF CURB PLATE ASSEMBLY MK. C.P.-1

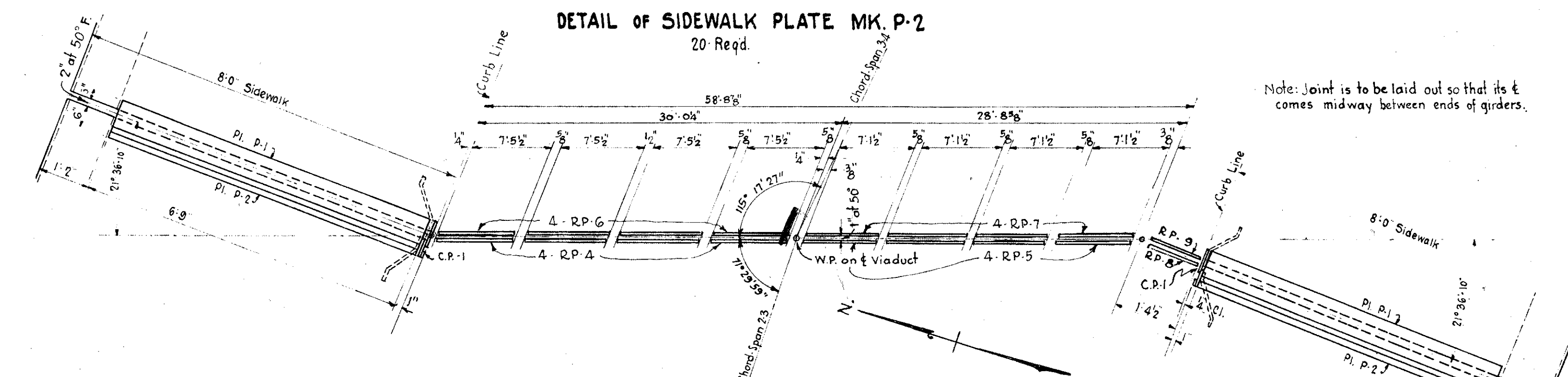


DETAIL OF PLATES FOR ROADWAY JOINT

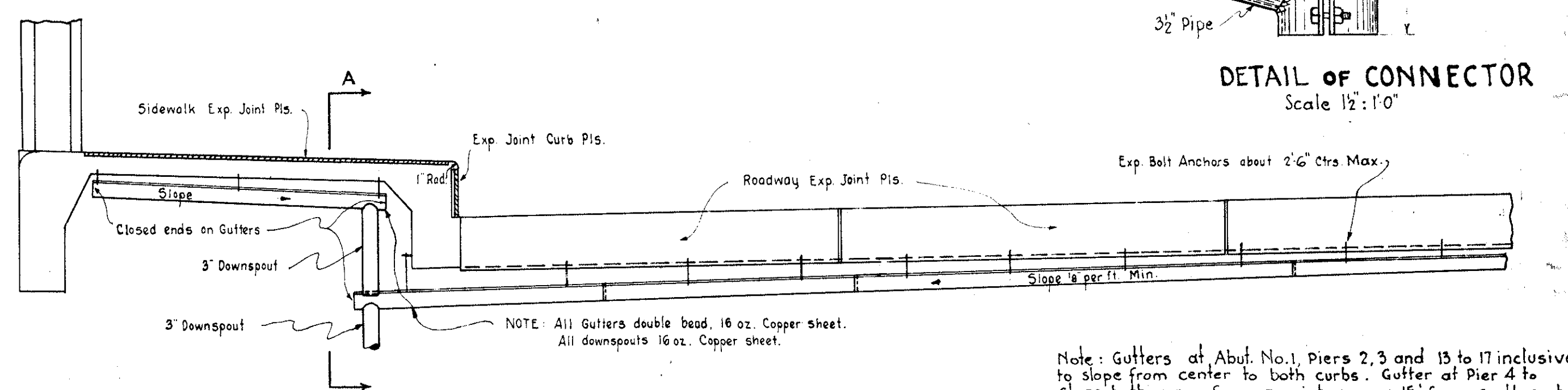


DETAIL OF PLATES FOR ROADWAY JOINT

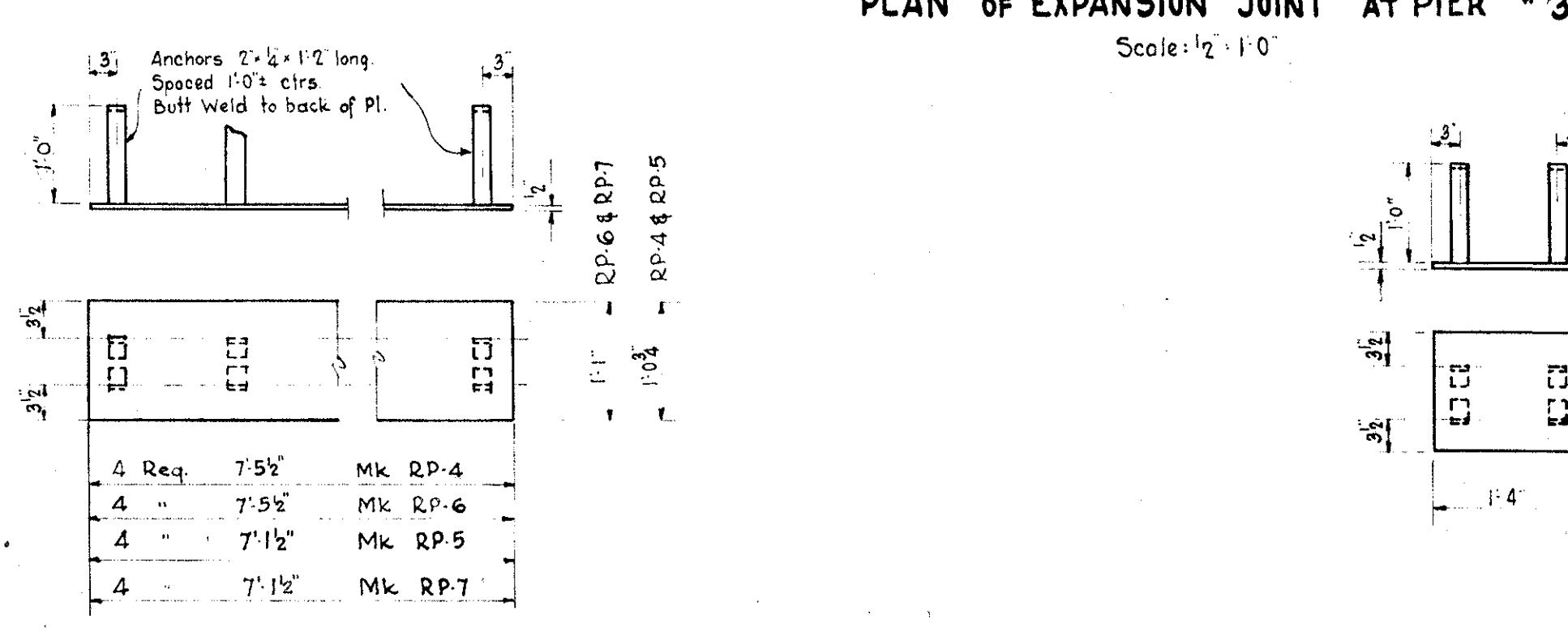
DETAIL OF SIDEWALK PLATE MK. P-2



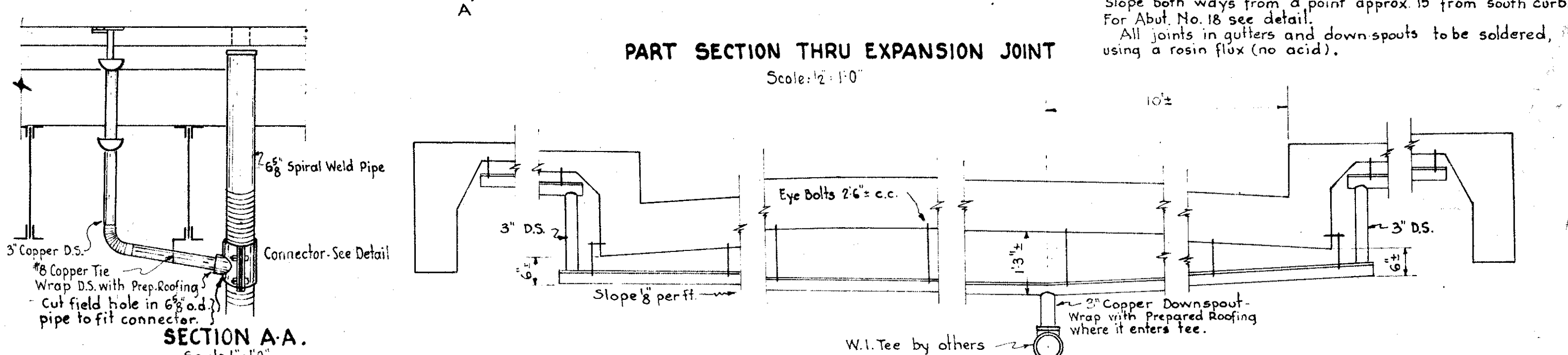
PLAN OF EXPANSION JOINT AT PIER #3



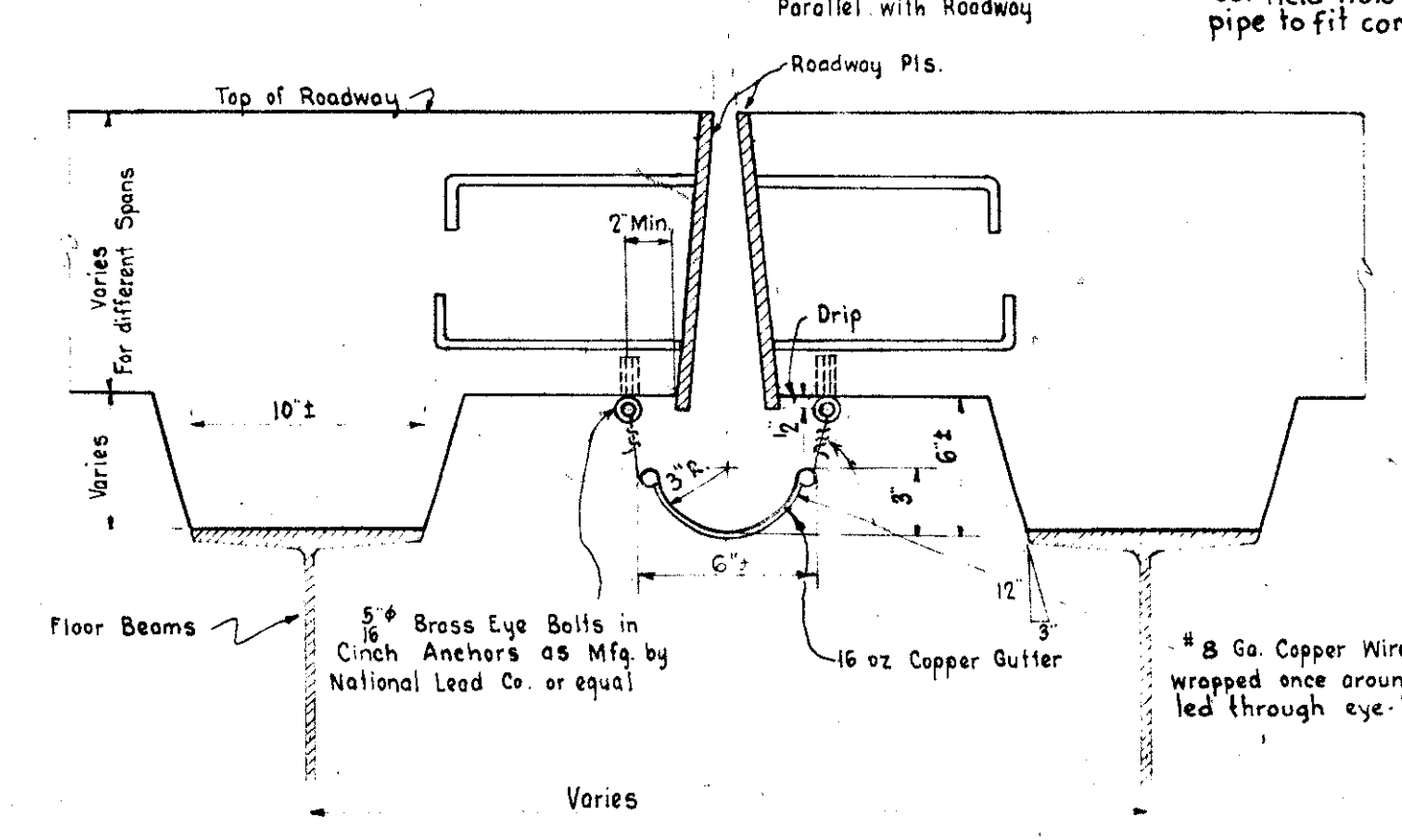
PART SECTION THRU EXPANSION JOINT



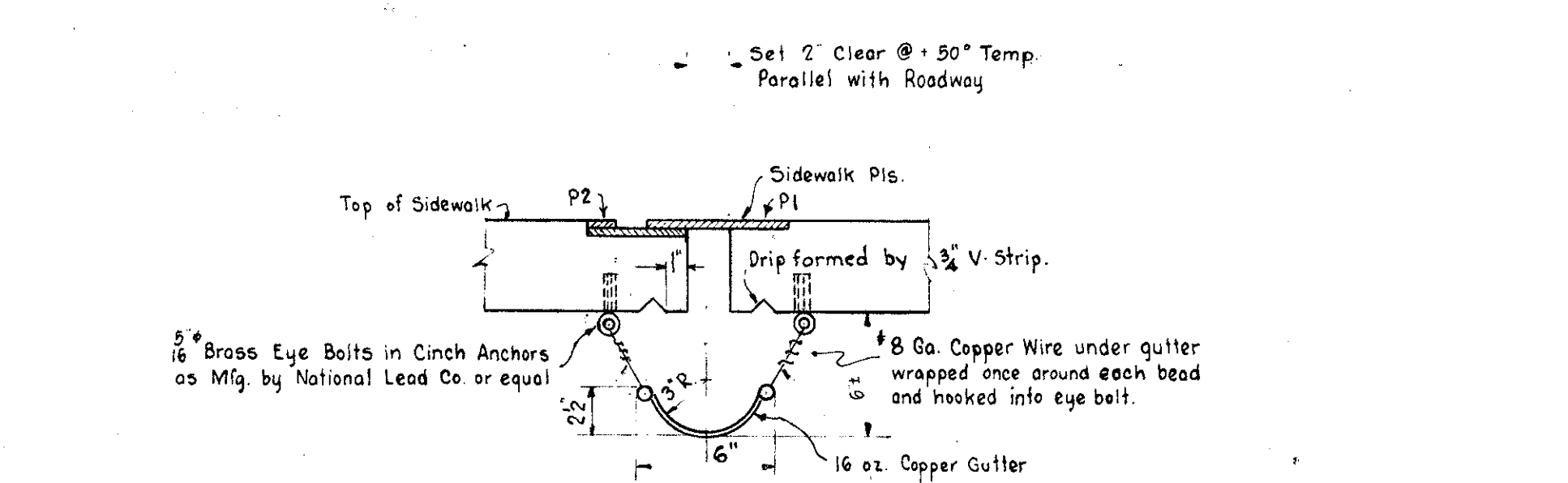
DETAIL OF PLATES FOR ROADWAY JOINT



DETAILS OF GUTTER AT ABUT. No. 18



TYPICAL SECTION THRU ROADWAY JOINT



TYPICAL SECTION THRU SIDEWALK JOINT

ESTIMATED QUANTITIES

ITEM	UNIT	QUAN.
Exp. Joint, Type No. 2	L. Ft.	713

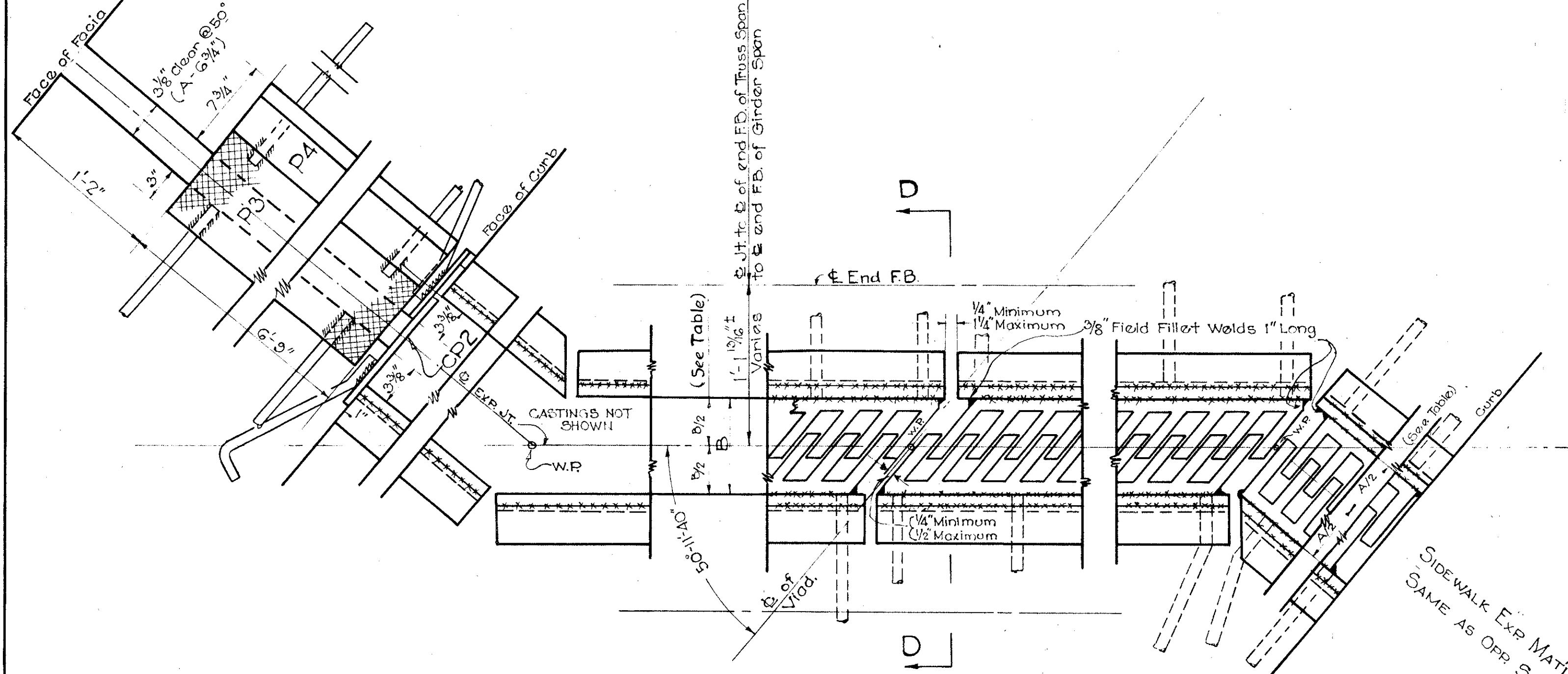
General Notes:
 Joints detailed on this drawing are designated as Type No. 2.
 All steel plates to contain not less than 0.2% of copper. Round steel anchors shall be deformed billet steel bars.
 For painting see specifications.
 Clearance at joints will be varied to suit temperature at time of pouring, as directed by Engineer.

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
EXPANSION JOINT DETAILS
ABUT. #1, PIERS #2, 3, 4, 13-14-15-16-17 AND ABUT. #18

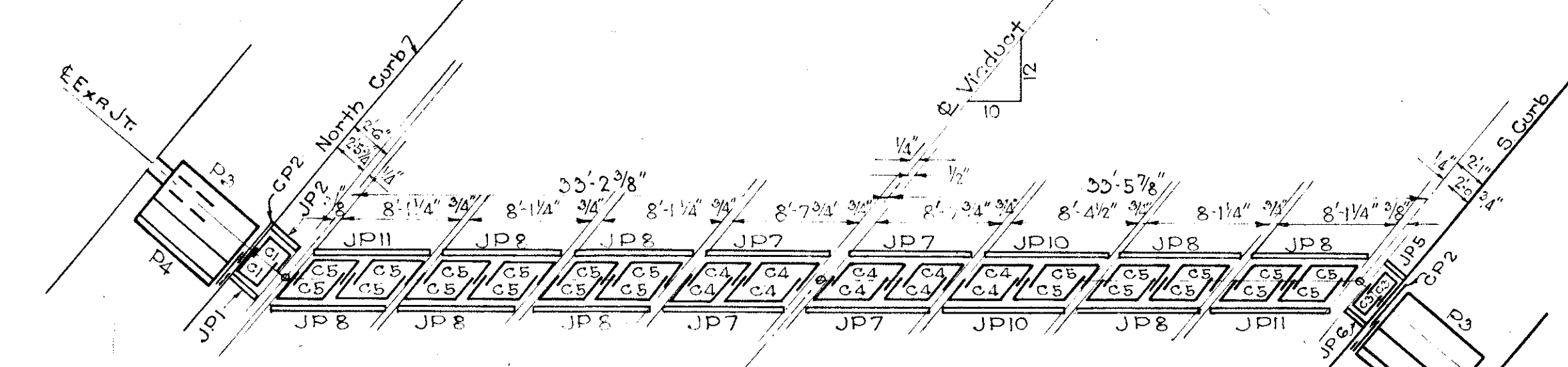
SCALE: Indicated AUG. 1, 1936 ISSUE: 1
 SUBMITTED: [Signature] SPECIAL ENGINEER APPROVED: [Signature] ENGINEER OF HIGHWAYS
 APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS APPROVED: [Signature] ACTING CITY MANAGER

ISSUE No.	REVISION	DATE	Sig.	Sig.

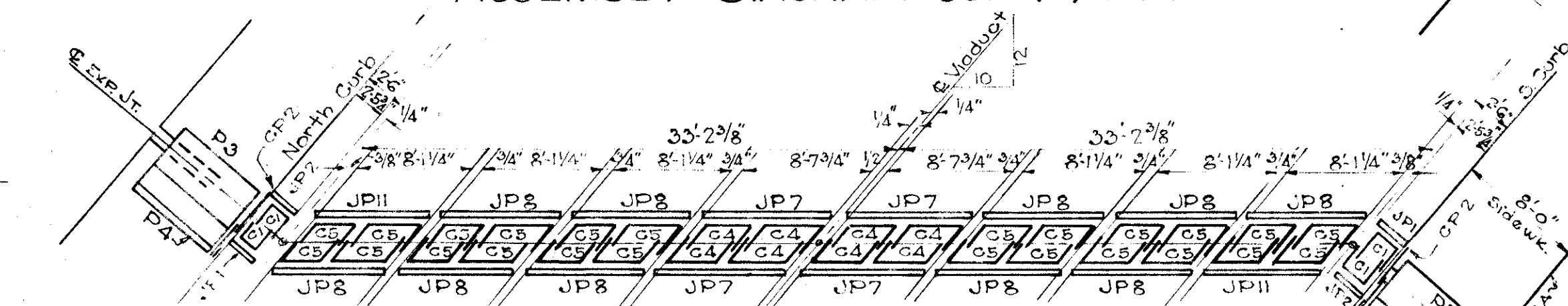
Acc. No. 5116



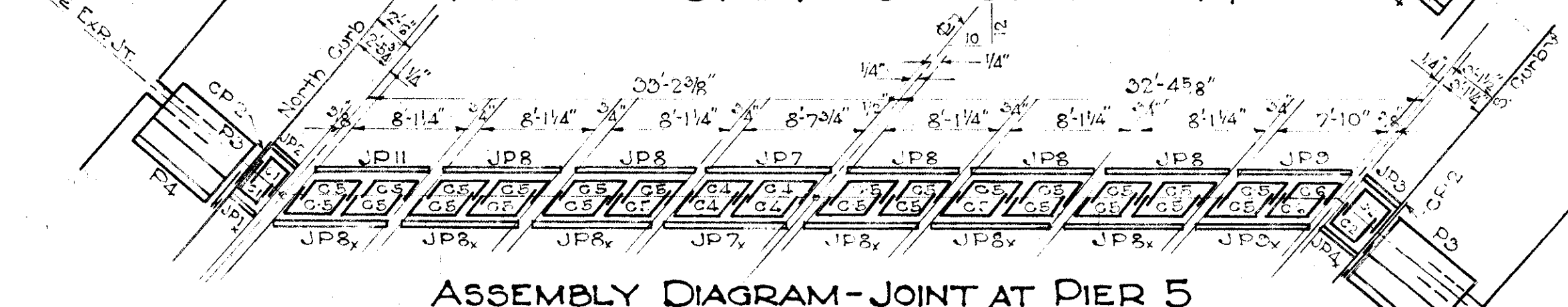
PART PLAN OF EXPANSION JOINT
SCALE 1/2" = 1'-0"



ASSEMBLY DIAGRAM-JOINT AT PIER 12

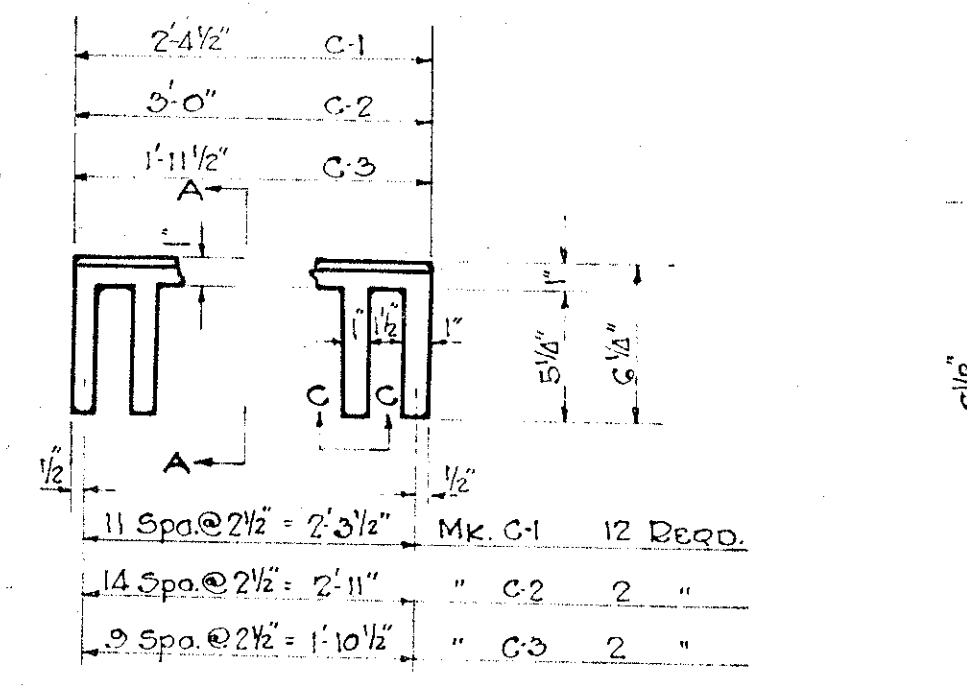


ASSEMBLY DIAGRAM-JOINTS AT PIERS 7 & 10

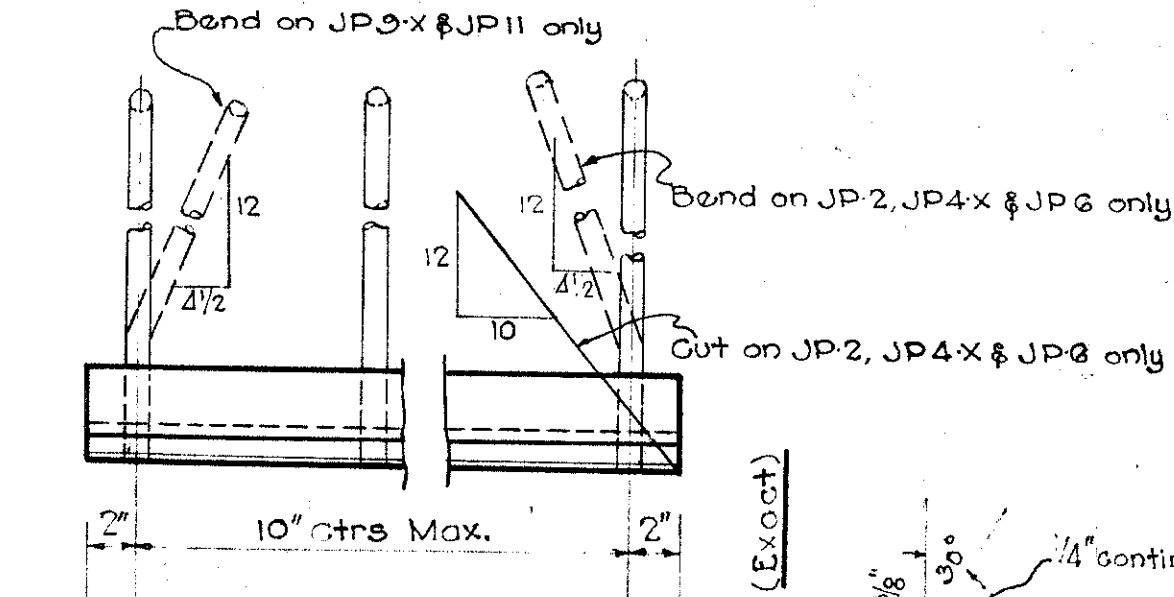
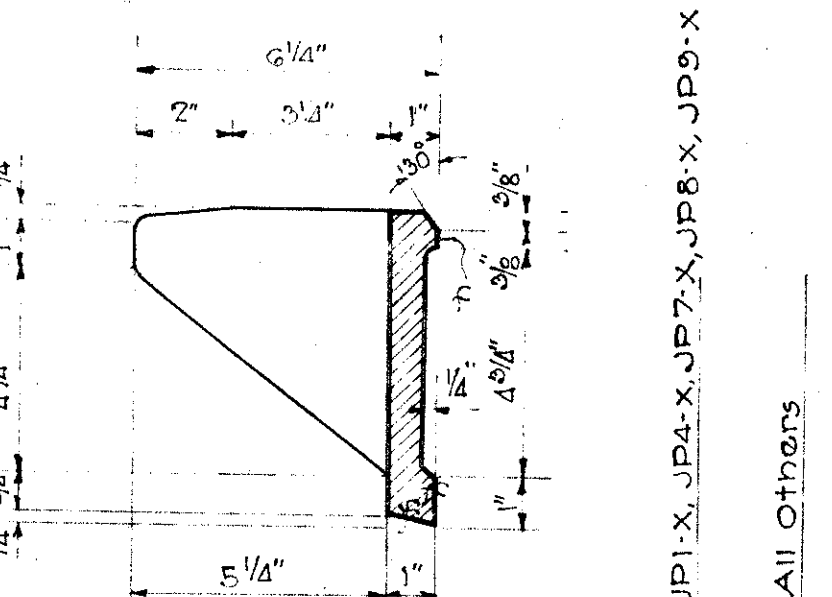


ASSEMBLY DIAGRAM-JOINT AT PIER 5

Temperature of Structure	PIERS 5 & 12 225' Exps.		PIER 7 320' Exp.		PIER 10 150' Exp.	
	A	B	A	B	A	B
100° F	3 1/8"	7 1/2"	8 5/8"	7 1/8"	9 3/8"	7 1/8"
80°	3 1/4"	7 3/4"	8 3/8"	7 1/4"	9 1/4"	7 1/4"
70°	3 1/4"	7 3/8"	8 3/8"	7 1/4"	9 1/4"	7 1/4"
60°	3 3/8"	8"	8 3/8"	7 3/8"	9 1/4"	8"
50°	3 7/8"	8 1/2"	8 3/8"	7 3/8"	9 1/4"	8 1/4"
40°	10"	8 3/4"	10 1/8"	8 1/4"	10"	8 3/4"
30°	10 3/8"	8 5/8"	10 3/8"	8 1/2"	10 3/8"	8 1/4"
20°	10 1/2"	8 3/4"	10 3/8"	8 1/2"	10 1/4"	8 3/8"
0°	10 5/8"	8 7/8"	11 1/8"	9 1/4"	10 5/8"	8 1/2"

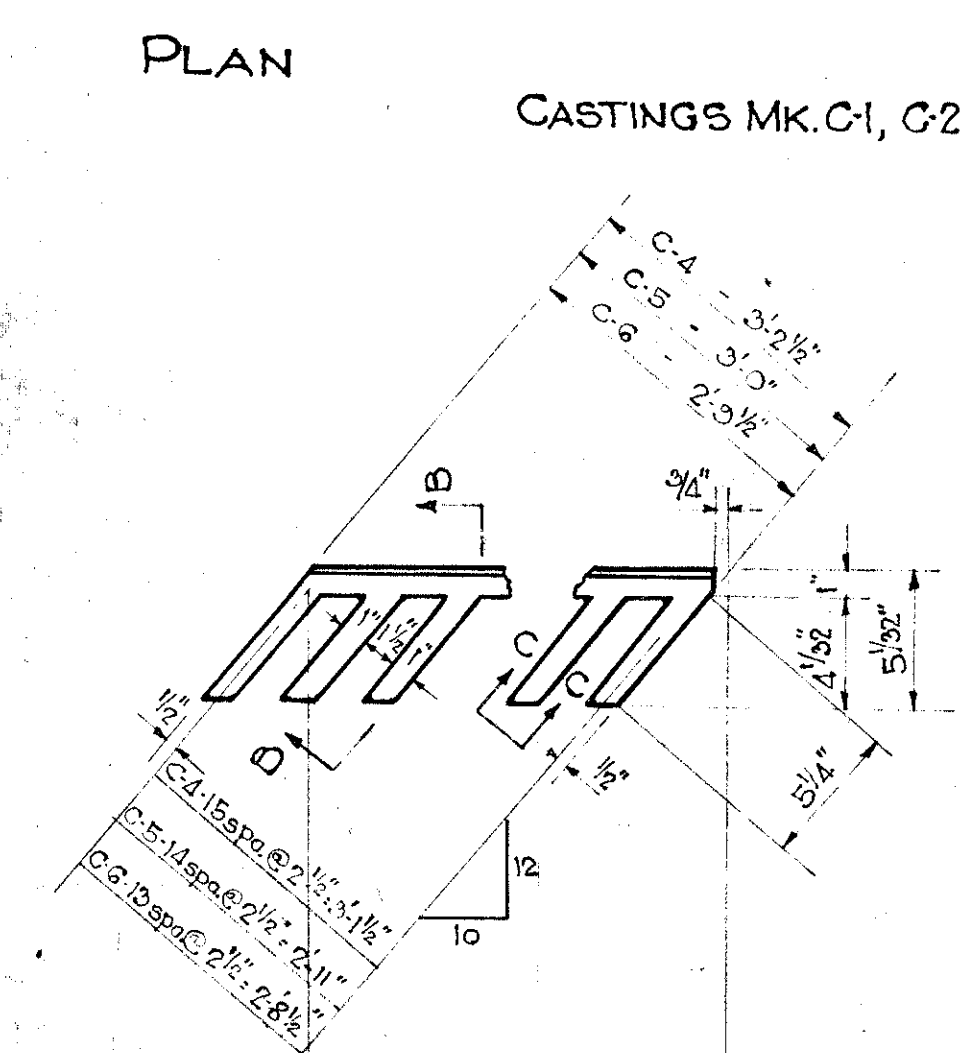


SECTION A-A
Scale 3/4" = 1'-0"



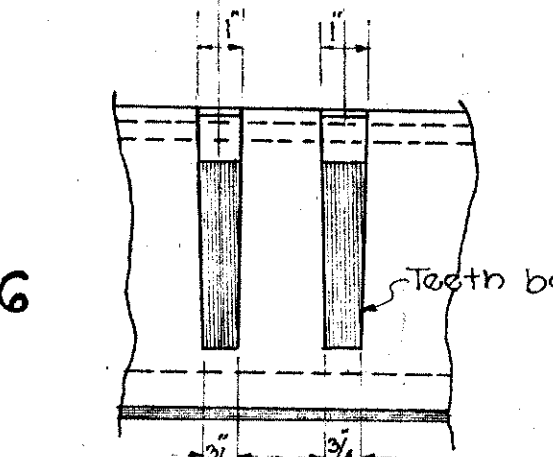
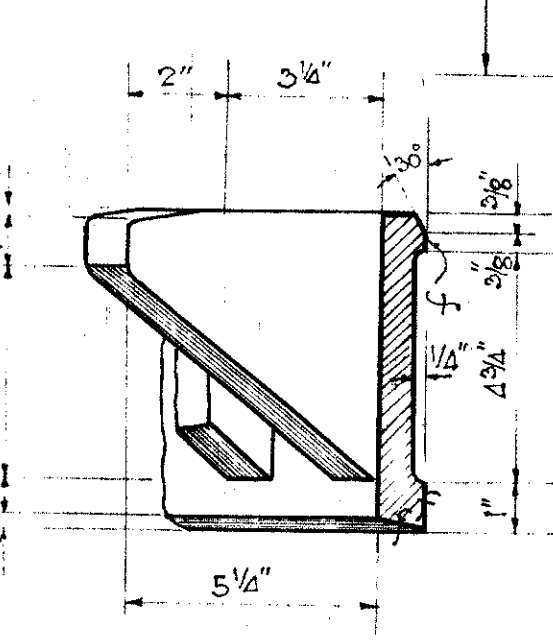
JOINT PLATES JP1 TO JP11 INCL.

Length	Quantity	Notes
2'-5 3/4"	JP1	5 Req'd.
2'-5 3/4"	JP1-x	1 Req'd.
2'-5 3/4"	JP2	6 Req'd.
3'-1 1/4"	JP3	1 Req'd.
3'-1 1/4"	JP4-x	1 Req'd.
2'-0 3/4"	JP5	1 Req'd.
2'-0 3/4"	JP6	1 Req'd.
8'-7 3/4"	JP7	13 Req'd.
8'-7 3/4"	JP7-x	1 Req'd.
8'-11 1/4"	JP8	33 Req'd.
8'-11 1/4"	JP8-x	6 Req'd.
7'-10"	JP9	1 Req'd.
7'-10"	JP9-x	1 Req'd.
8'-4 1/2"	JP10	2 Req'd.
8'-1 1/4"	JP11	7 Req'd.

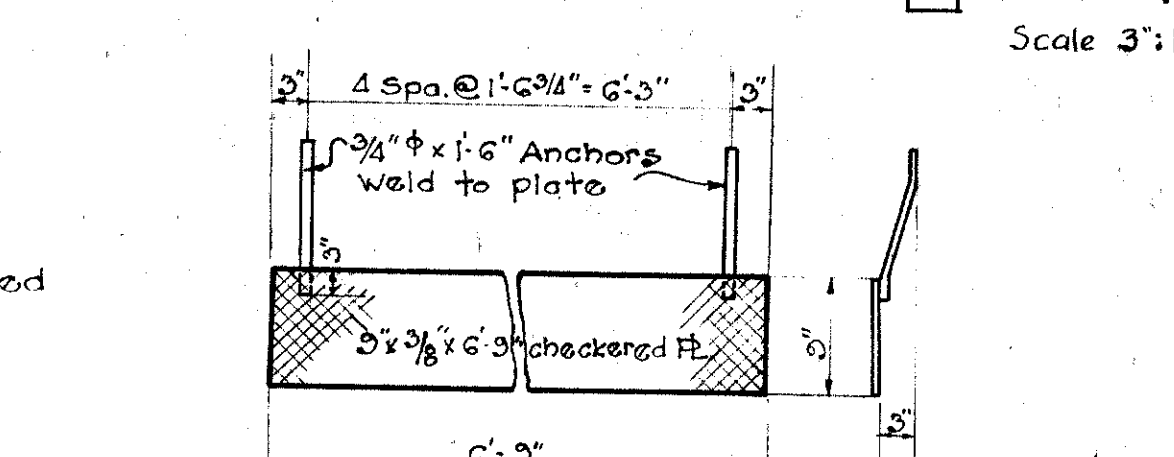


PLAN CASTINGS Mk. C4, C5 & C6

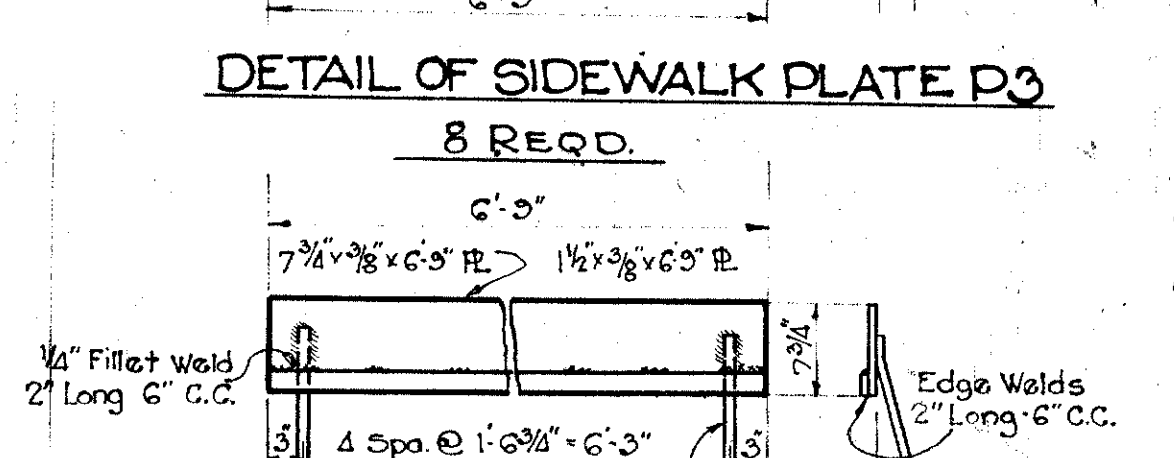
SECTION B-B
Scale 3/4" = 1'-0"



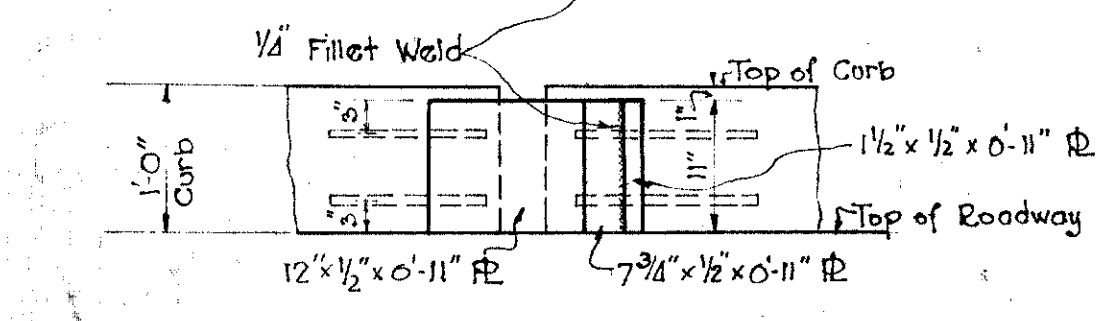
VIEW C-C
Scale 3/4" = 1'-0"



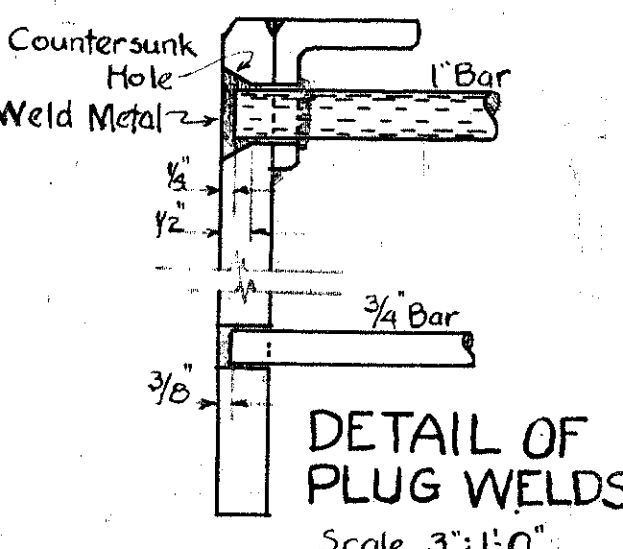
DETAIL OF SIDEWALK PLATE P3
8 REQ'D.



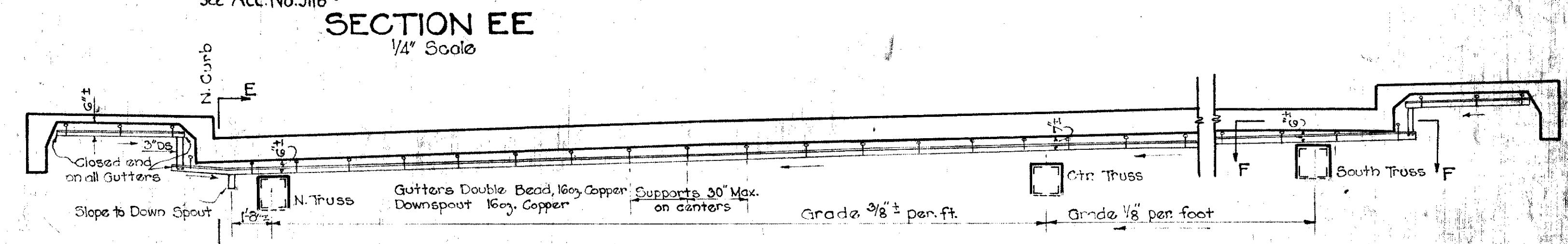
DETAIL OF SIDEWALK PLATE P4
8 REQ'D.



DETAIL OF CURB ASSEMBLY Mk. CP2
8 REQ'D.



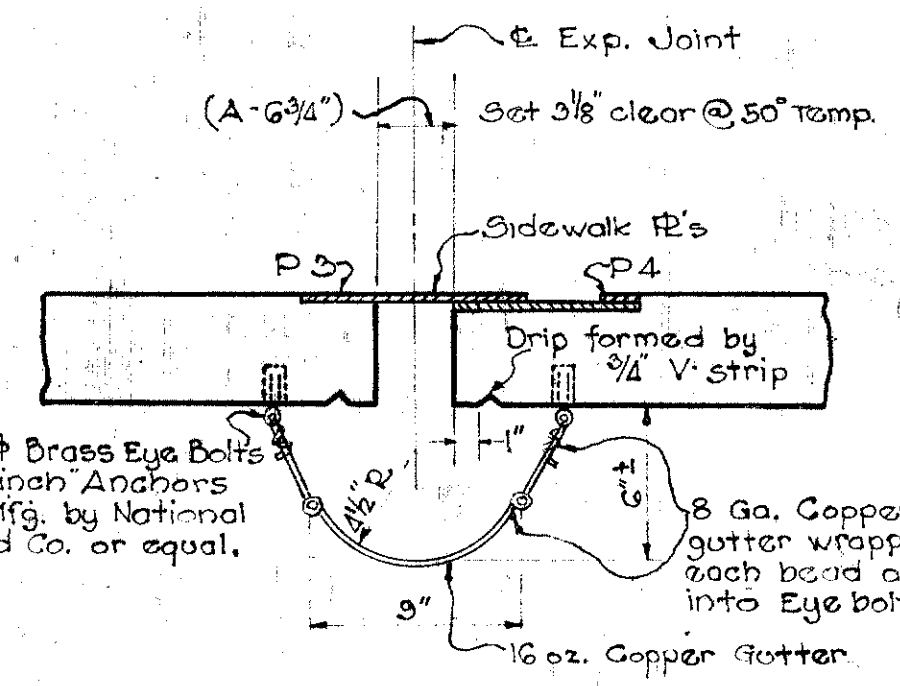
DETAIL OF PLUG WELDS
Scale 3/4" = 1'-0"



DEVELOPED ELEVATION OF GUTTER UNDER EXPANSION JOINTS
Scale 1/4" = 1'-0"

ESTIMATED QUANTITIES		
ITEM	UNIT	QUAN.
Exp. Joint - Type No. 1	L. Ft.	340

General Notes:
The joints detailed on this sheet are designated as Type No. 1.
All steel plates to contain not less than 0.2% of copper. Round steel anchors to be deformed billet steel bars.
All castings to be cast steel - see Specifications.
For painting see specifications.
All connections in copper gutter and downspouts to be fully soldered, using rosin flux (no acid).
Welding of 1" bars to plates to be accomplished by use of coated electrodes or equal.



TYPICAL SECTION THRU SIDEWALK JOINT
Scale 1/2" = 1'-0"

ISSUE No.	REVISION	DATE	Sig.	Sig.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COLUMBIA AVENUE VIADUCT OVER EGGLESTON AVENUE EXPANSION JOINT DETAILS PIERS 5-7-10 & 12

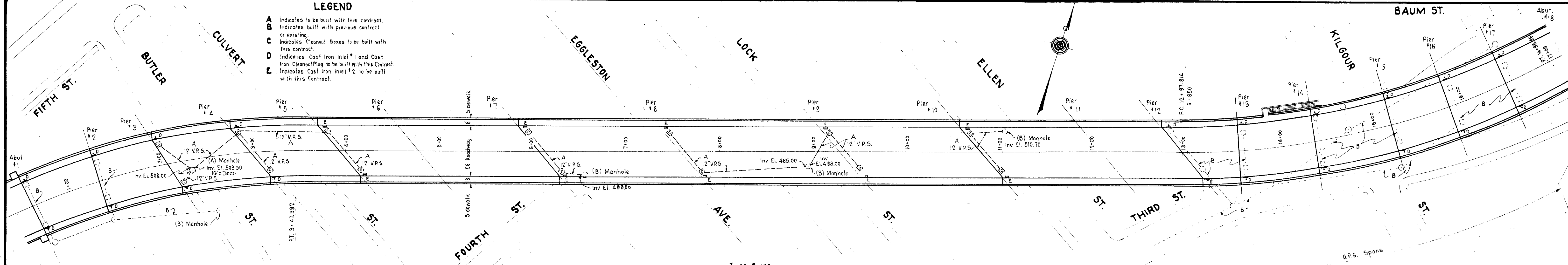
SCALE: Indicated
AUG. 1, 1936
ISSUE 1

SUBMITTED: *[Signature]*
SPECIAL ENGINEER

APPROVED: *[Signature]*
DIRECTOR OF PUBLIC WORKS

APPROVED: *[Signature]*
ACTING CITY MANAGER

Acc. No. 5117
PRINT MADE

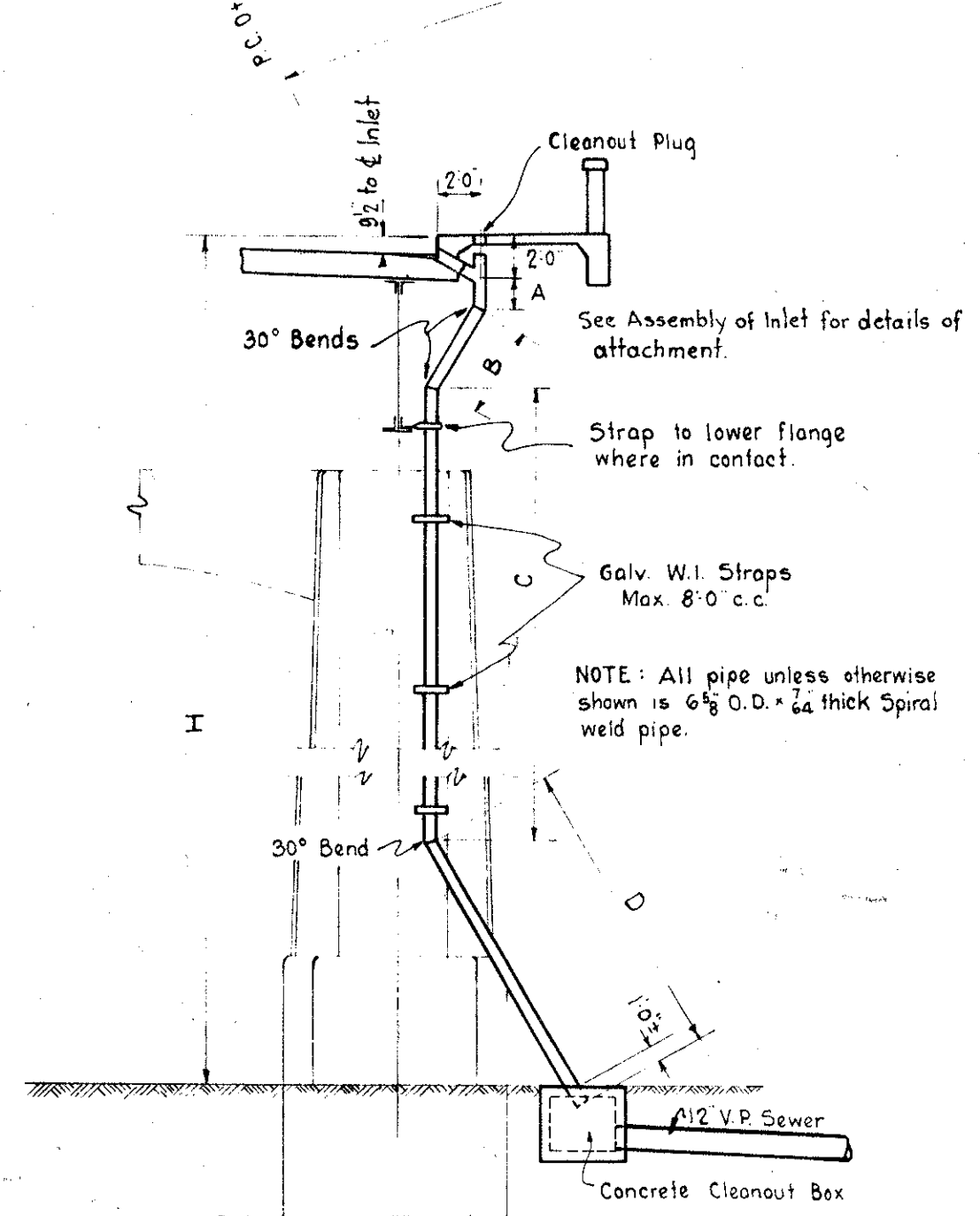


- LEGEND**
- A Indicates to be built with this contract.
 - B Indicates built with previous contract or existing.
 - C Indicates Cleanout Boxes to be built with this contract.
 - D Indicates Cast Iron Inlet #1 and Cast Iron Cleanout Plug to be built with this contract.
 - E Indicates Cast Iron Inlet #2 to be built with this contract.

PLAN - DECK DRAINAGE
Scale 1" = 50'

GENERAL NOTES

For Deck Plans see Acc. No. For Alignment and Grades see Acc. No. For Details of proposed manhole in Butler Street see specifications. Locations and Invert Elevations of Cleanout Boxes will be set by the Engineer. Drawings showing Steel Superstructure, Piers, Abutments and date on existing sewers are on file in the office of the Engineer of Highways. The pipe used in connecting inlets to cleanout boxes shall be spiral welded ingot iron conforming to A.S.T.M. specifications A-129-35. After complete fabrication it shall be hot-dip galvanized. Pipe will be measured along center line, including all specials. The length of Y-specials shall be the combined length of run and branch measured on center lines. The price bid for pipe shall include the cost of all specials and attachments.

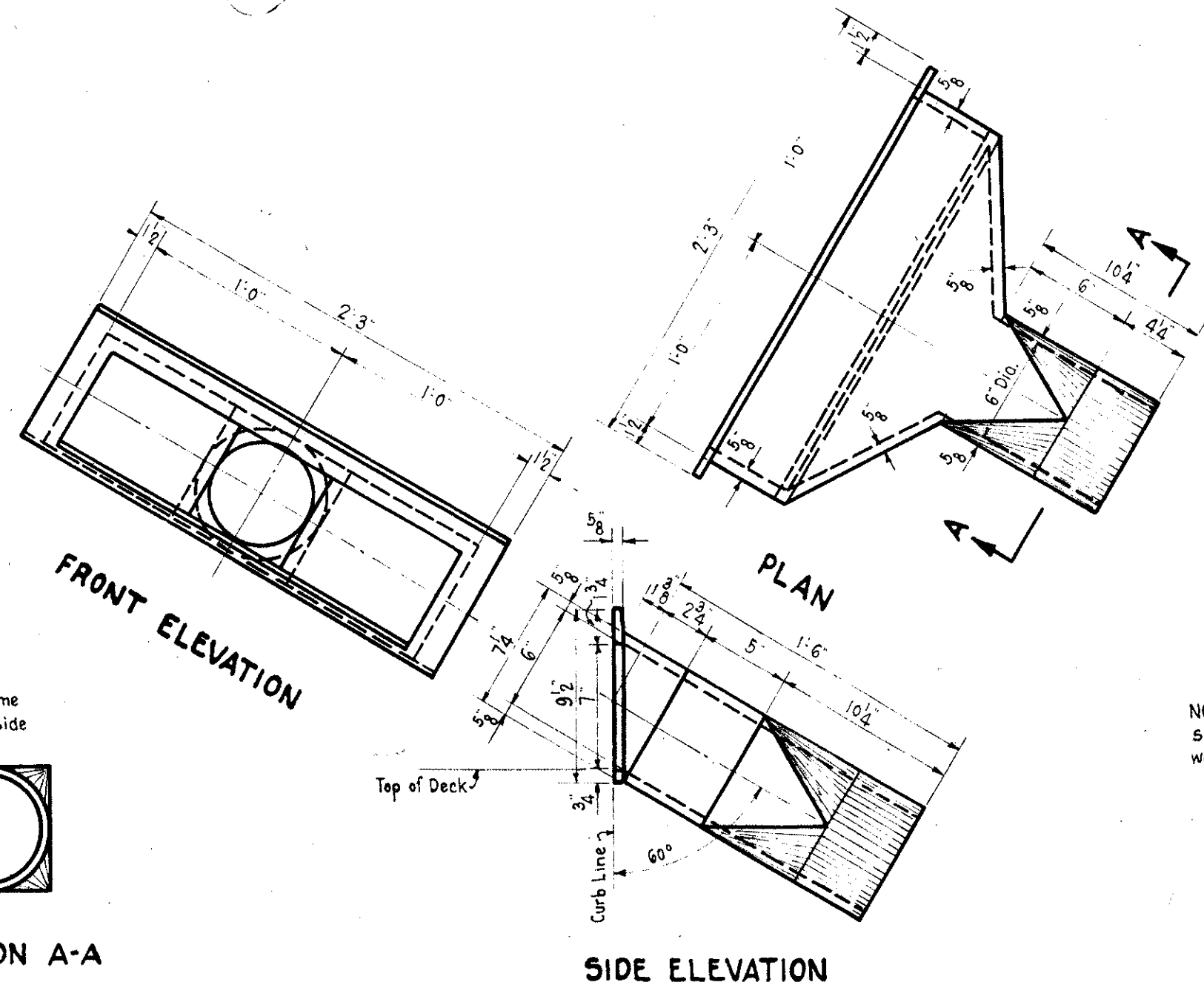


TYPICAL INSTALLATION OF SPECIAL INLET No. 1
No Scale

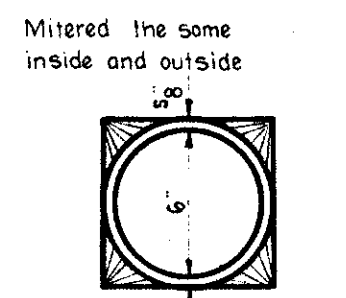
TABLE OF APPROXIMATE DIMENSIONS

PIER LOCATION	H	A	B	C	D
1 South	21'-7"	1'-4"	3'-4"	12'-5"	4'-6"
1 North	21'-6"	1'-4"	3'-2"	12'-6"	4'-6"
2 South	24'-0"	1'-4"	3'-7"	11'-10"	5'-6"
2 North	23'-11"	1'-4"	2'-10"	12'-5"	5'-6"
3 South	28'-7"	1'-4"	5'-2"	17'-0"	5'-4"
3 North	27'-9"	1'-4"	2'-7"	12'-5"	12'-0"
4 South	35'-9"	1'-9"	13'-2"	5'-3"	18'-0"
4 North	34'-1"	1'-4"	5'-3"	17'-2"	12'-0"
12 South	45'-10"	1'-4"	6'-5"	27'-10"	11'-6"
12 North	42'-5"	1'-4"	7'-4"	28'-10"	5'-6"
13 South	45'-1"	4'-8"	10'-0"	25'-0"	6'-6"
13 North	38'-1"	1'-4"	4'-10"	26'-10"	5'-2"
14 South	37'-10"	1'-4"	2'-10"	27'-7 1/2"	6'-2"
14 North	33'-9"	1'-4"	5'-3"	22'-6"	5'-0"
15 South	34'-6"	1'-4"	3'-9"	22'-9"	7'-0"
15 North	32'-7"	1'-4"	8'-11"	18'-4"	4'-8"
16 South	32'-4"	1'-4"	4'-0"	20'-6"	6'-10"
16 North	29'-9"	1'-4"	11'-0"	14'-6"	3'-8"
17 South	29'-9"	1'-4"	4'-0"	17'-7 1/2"	7'-2"
17 North	27'-5"	1'-4"	4'-9"	17'-0"	4'-6"

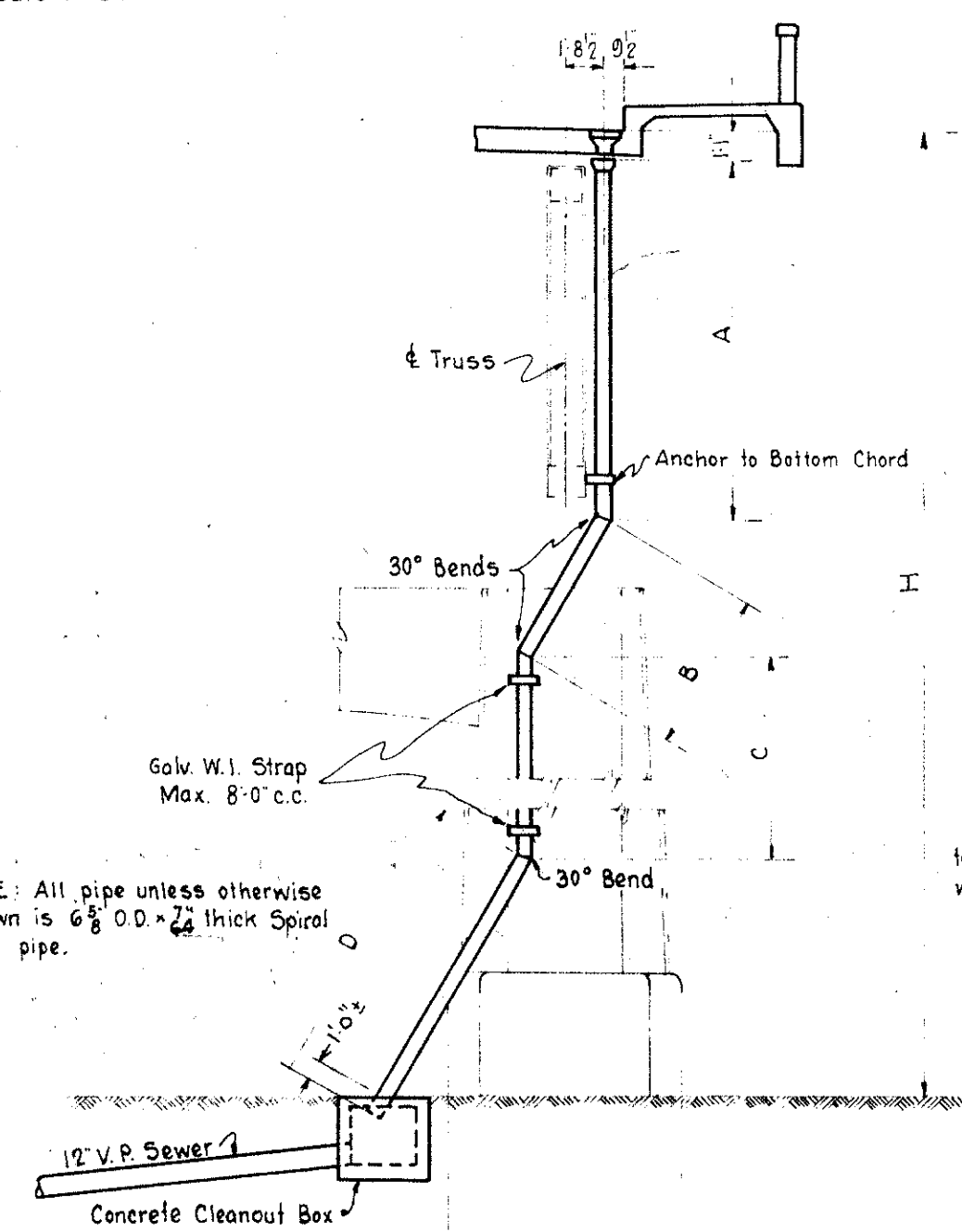
NOTE: The Contractor shall verify dimensions from field measurements. Large scale layouts are on file in office of Engineer of Highways.



CAST IRON SPECIAL INLET No. 1 20" Req'd.
Scale 1 1/2" = 1'-0"



SECTION A-A

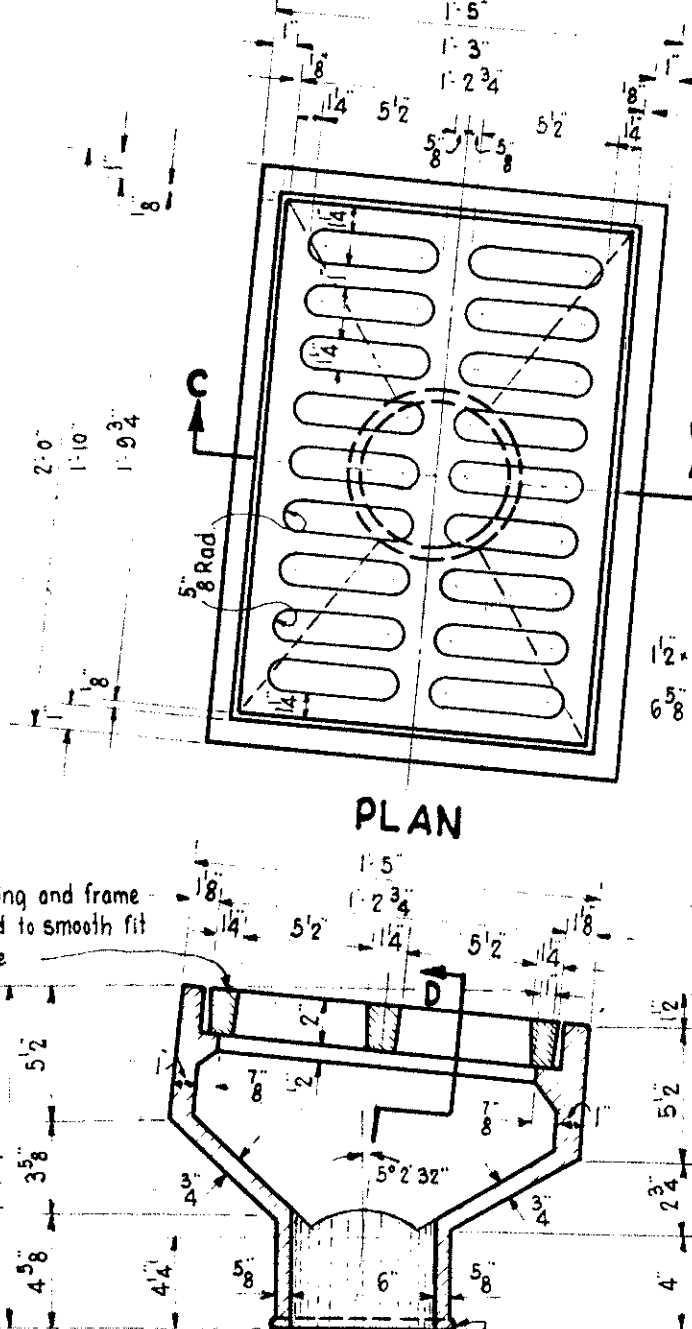


TYPICAL INSTALLATION OF SPECIAL INLET No. 2
No Scale

TABLE OF APPROXIMATE DIMENSIONS

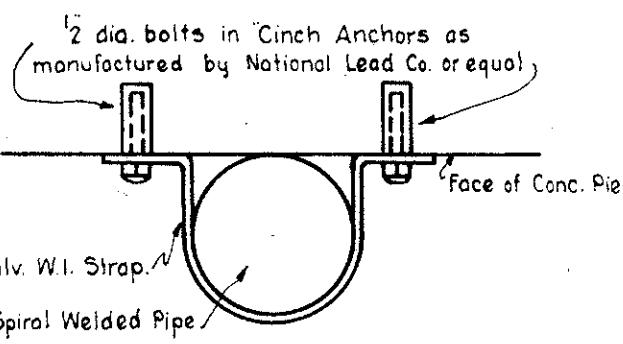
PIER LOCATION	H	A	B	C	D
5 South	37'-5"	10'-3"	7'-1"	5'-0"	18'-0"
5 North	35'-5"	10'-3"	1'-9"	14'-3"	10'-8"
7 South	47'-11"	21'-0"	7'-1"	15'-2"	6'-3"
7 North	45'-3"	21'-0"	1'-9"	17'-2"	6'-3"
8 South	55'-2"	24'-0"	7'-1"	18'-10"	7'-0"
8 North	52'-3"	24'-0"	1'-9"	22'-0"	5'-2"
9 South	69'-9"	24'-0"	7'-1"	33'-0"	7'-6"
9 North	68'-4"	24'-0"	1'-9"	36'-2"	7'-6"
10 South	53'-11"	19'-10"	7'-1"	10'-9"	19'-6"
10 North	50'-7"	19'-10"	1'-9"	22'-6"	7'-9"

NOTE: The Contractor shall verify dimensions from field measurements. Large scale layouts are on file in office of Engineer of Highways.

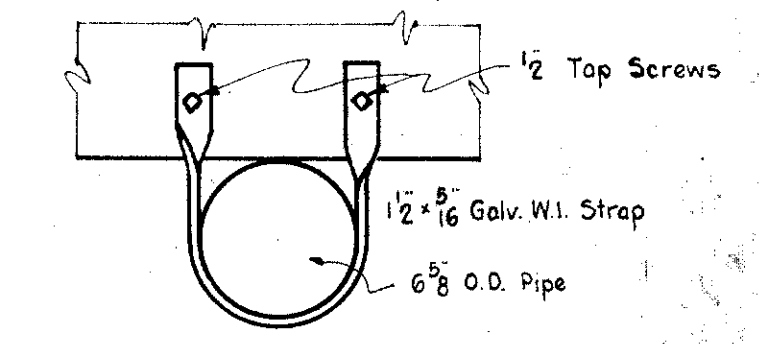


SECTION C-C

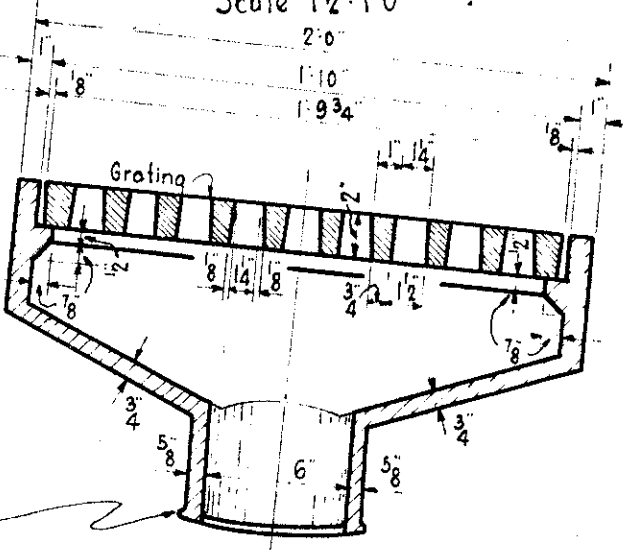
CAST IRON SPECIAL INLET AND GRATING No. 2 10" Req'd.
Scale 1 1/2" = 1'-0"



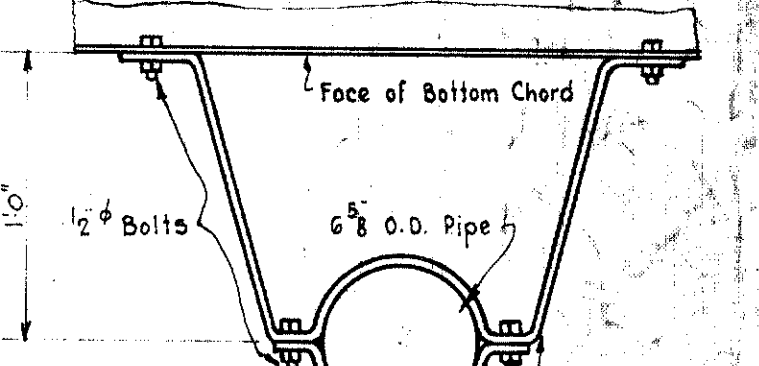
DETAILS OF STRAP ANCHOR TO CONCRETE PIER
Scale 1 1/2" = 1'-0"



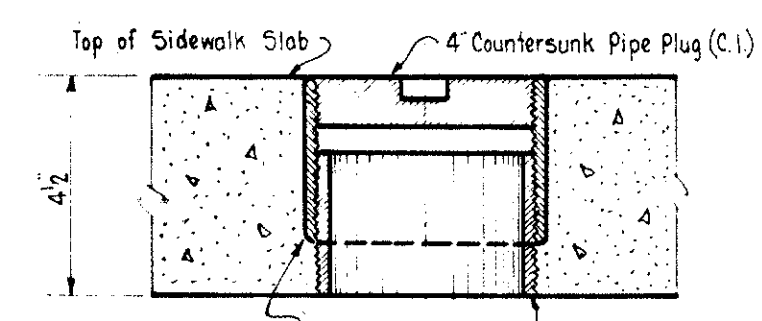
DETAILS OF STRAP ANCHOR TO GIRDER FLANGE
Scale 1 1/2" = 1'-0"



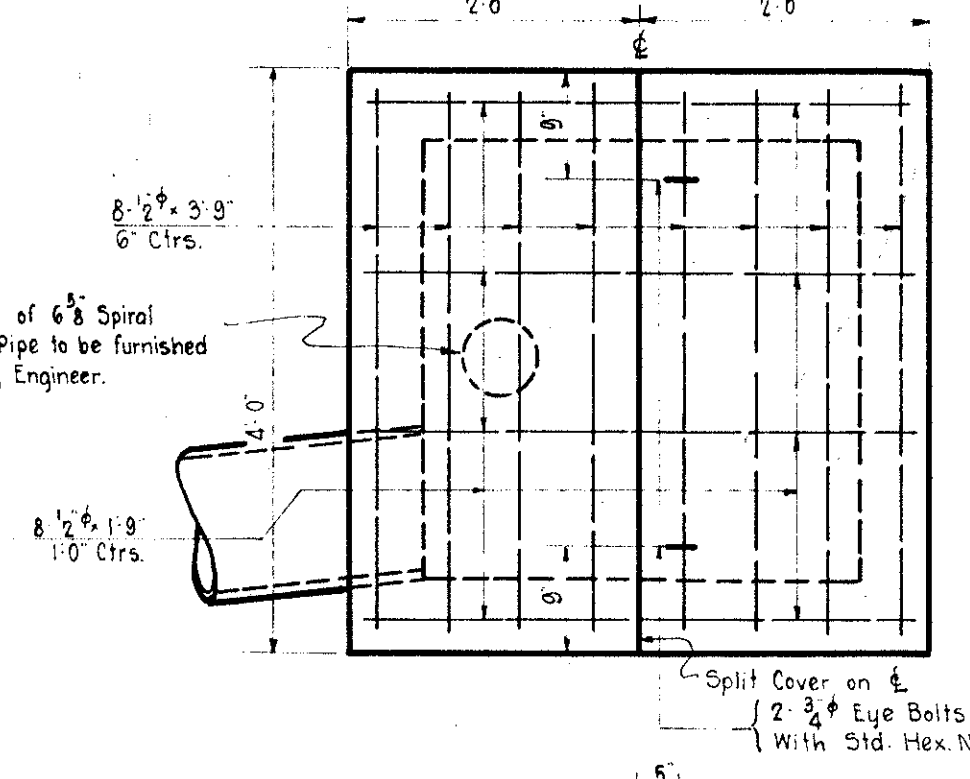
SECTION D-D



DETAILS OF STRAP ANCHOR TO LOWER CHORD OF TRUSS
Scale 1 1/2" = 1'-0"

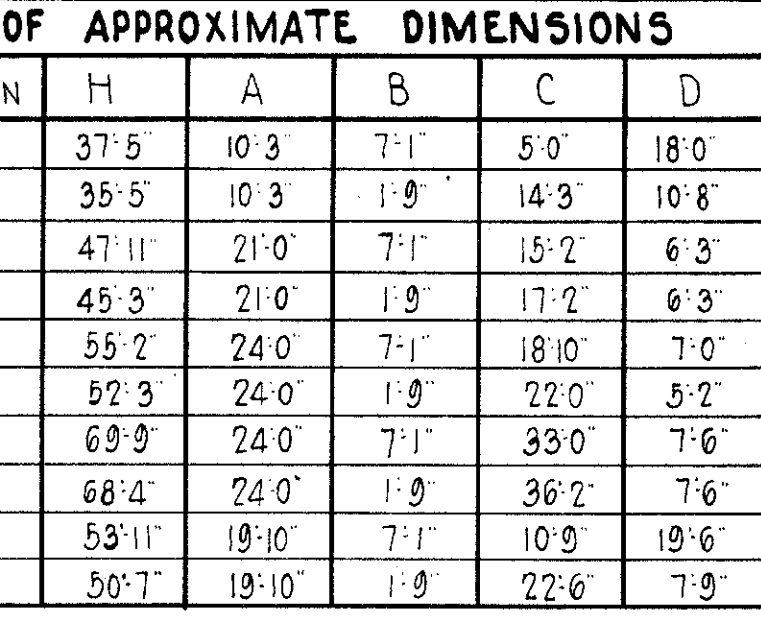


DETAILS OF CLEAN-OUT PLUG SECTION ON E 20" REQ'D.
Scale 1/2" = 1'-0"

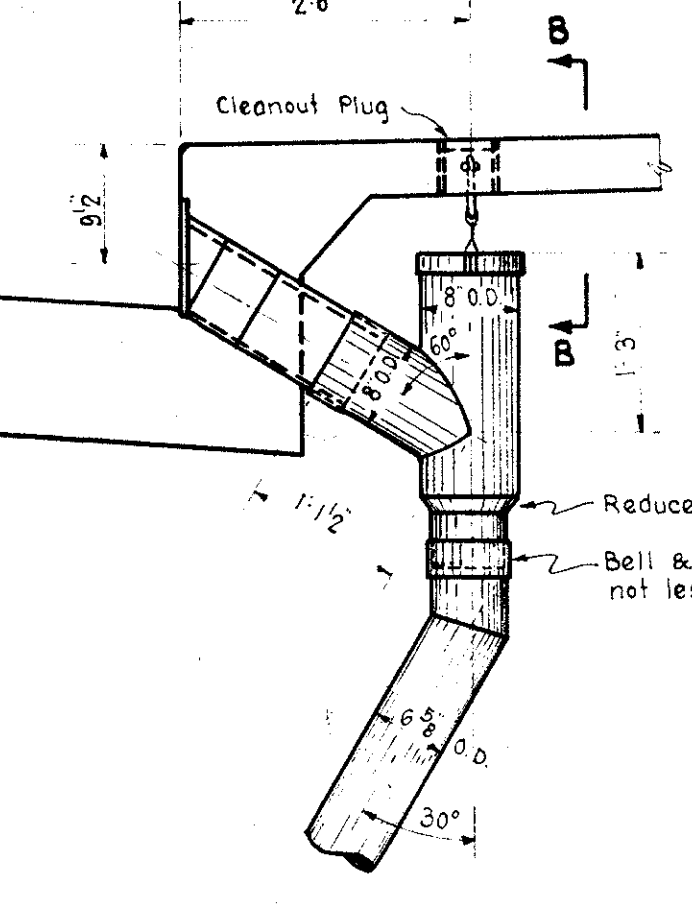


TYPICAL DETAILS - CONCRETE CLEANOUT BOXES
Scale 3/4" = 1'-0"

Price Bid shall be on Box Complete



ASSEMBLY OF INLET No. 2
Scale 3/4" = 1'-0"



ASSEMBLY OF INLET No. 1 CLEANOUT PLUG AND SPECIALS
Scale 3/4" = 1'-0"

ISSUE NO.	REVISION	DATE	SIG.	SIG.

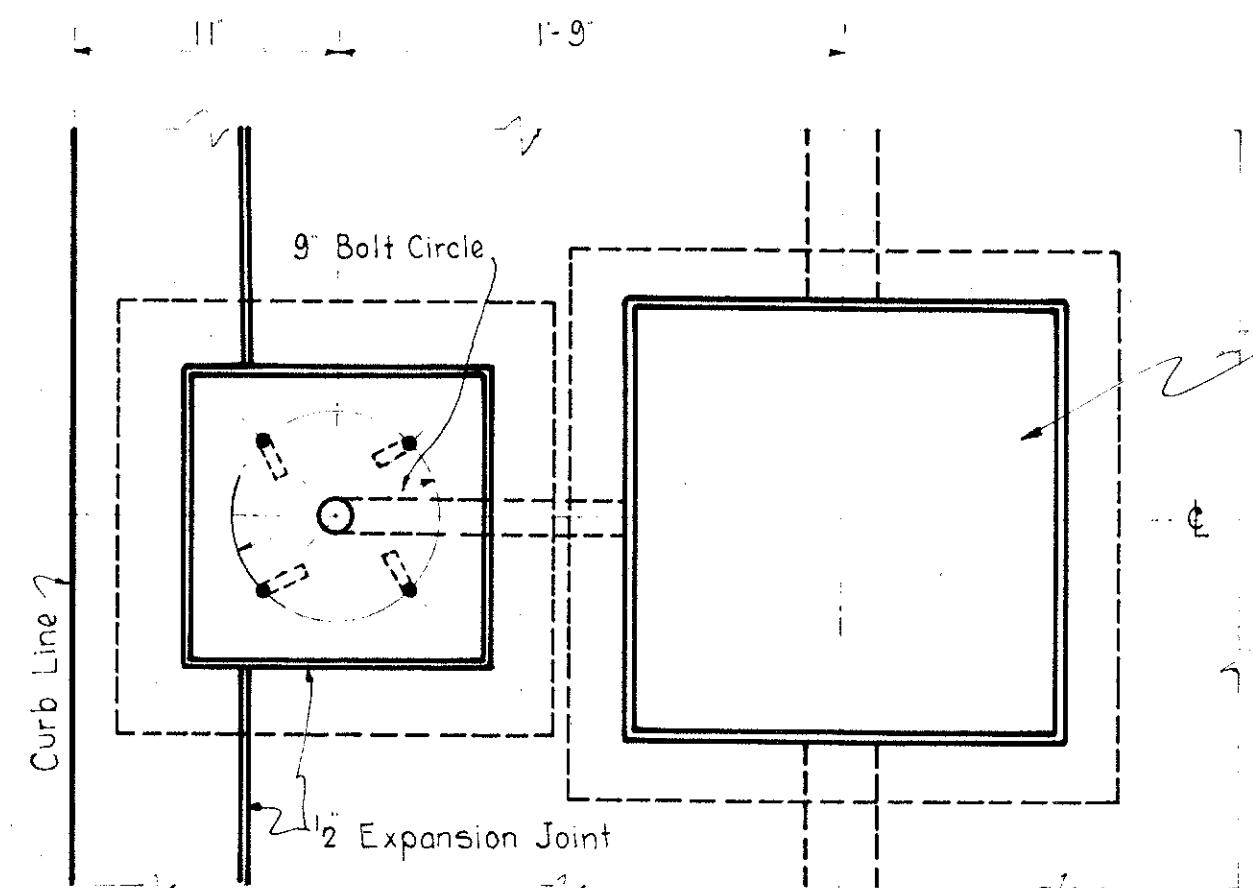
ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITY
Special Inlet No. 1	Ea.	20
Cleanout Plug	Ea.	20
Special Inlet No. 2	Ea.	10
Concrete Cleanout Box	Ea.	14
12" V.P. Sewer (Connections)	Lin. Ft.	750
Spiral Welded Iron Pipe	Lin. Ft.	1,275
Standard Manhole	Ea.	1

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGLESTON AVENUE
PLAN AND DETAILS OF DECK DRAINAGE

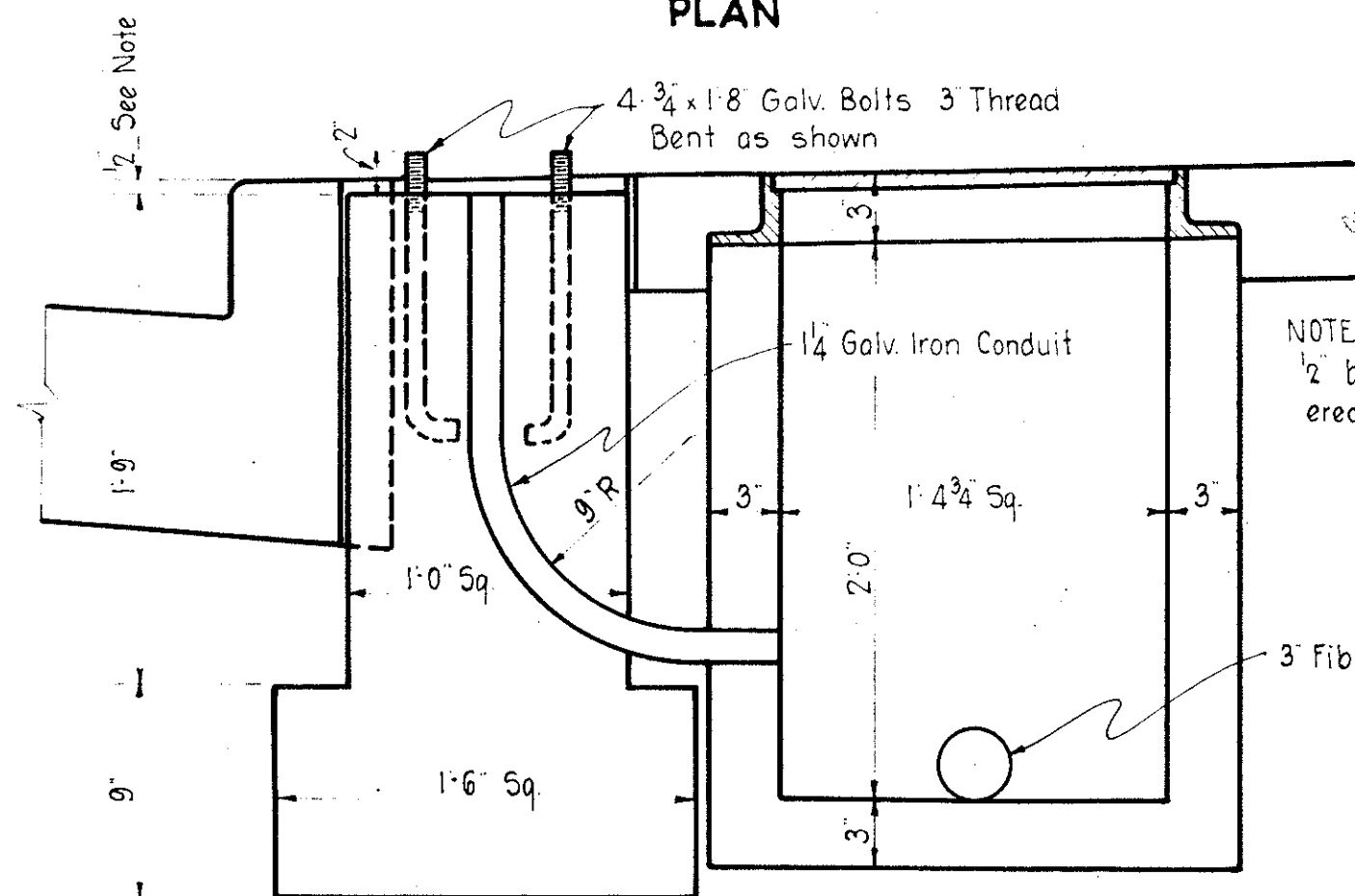
SCALE: Indicated
AUG. 1, 1936
ISSUE: 1
SUBMITTED: [Signature]
SPECIAL ENGINEER
APPROVED: [Signature]
DIRECTOR OF PUBLIC WORKS
APPROVED: [Signature]
ACTING CITY MANAGER

Acc. No. 5118



PLAN

Frame and Cover Bordes Range and Foundry Company Pattern No. B-1846 or equal.

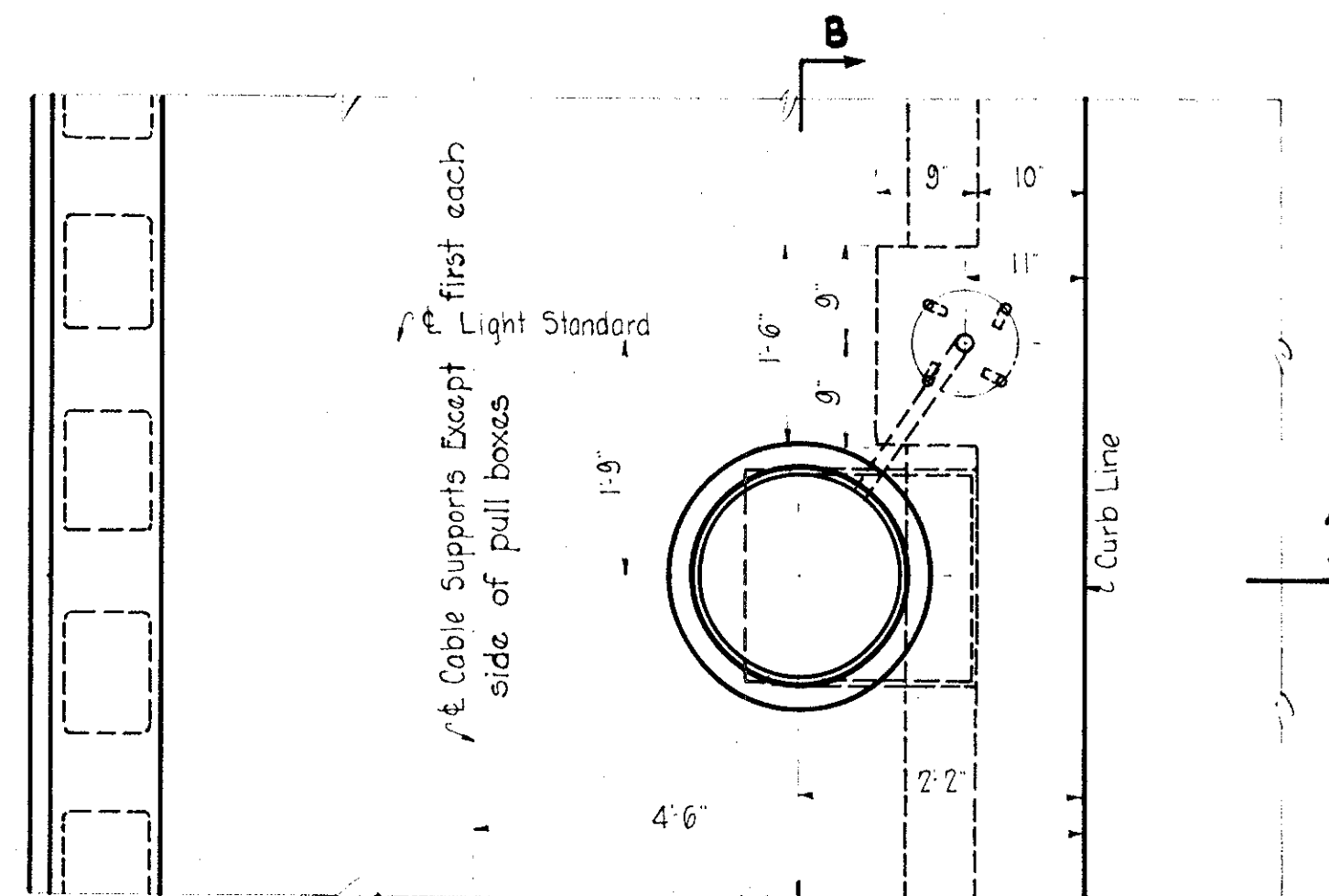


SECTION

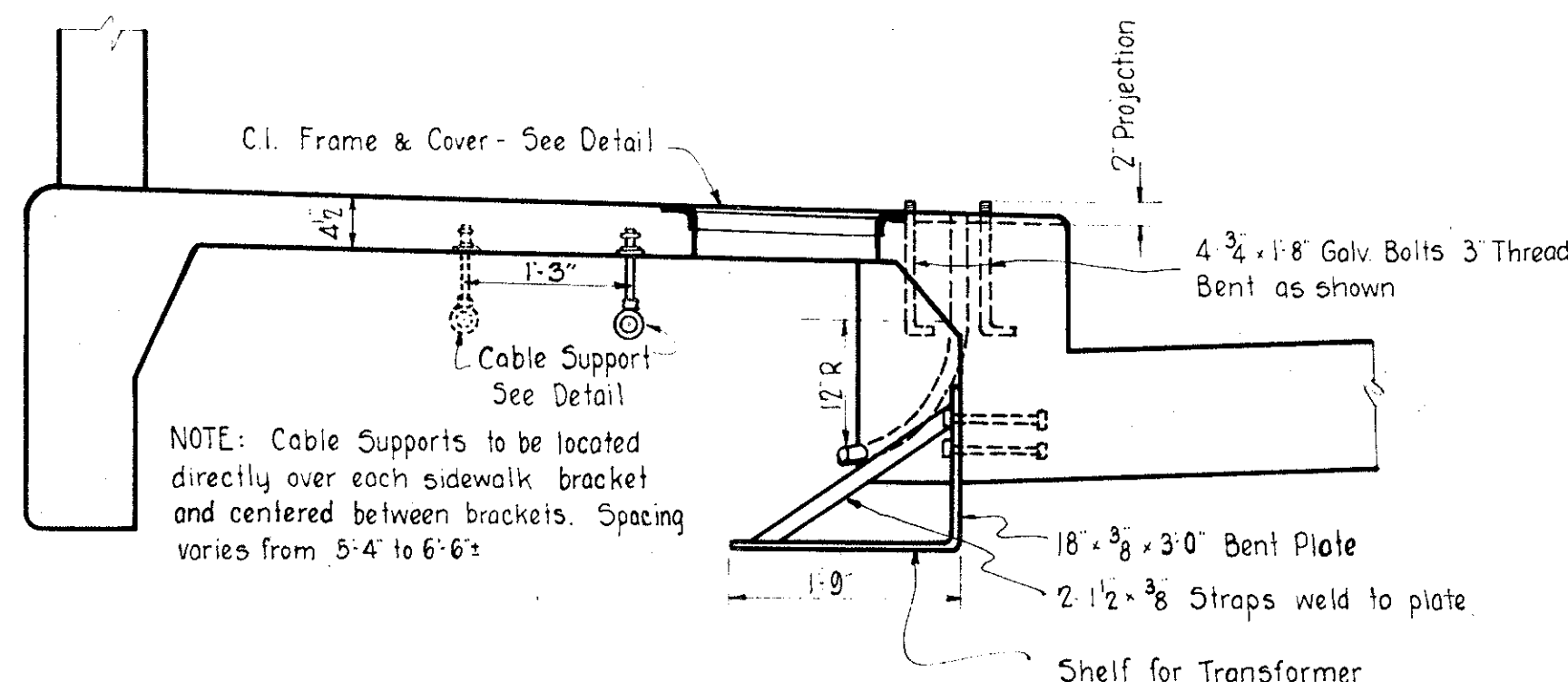
NOTE: Foundation for Light Standard to be built 1/2 below sidewalk grade. After standard is erected sidewalk to be grouted in flush.

DETAILS OF FOUNDATION FOR LIGHT STANDARD AND PULL BOX ON APPROACHES

Scale 1/2-1-0"



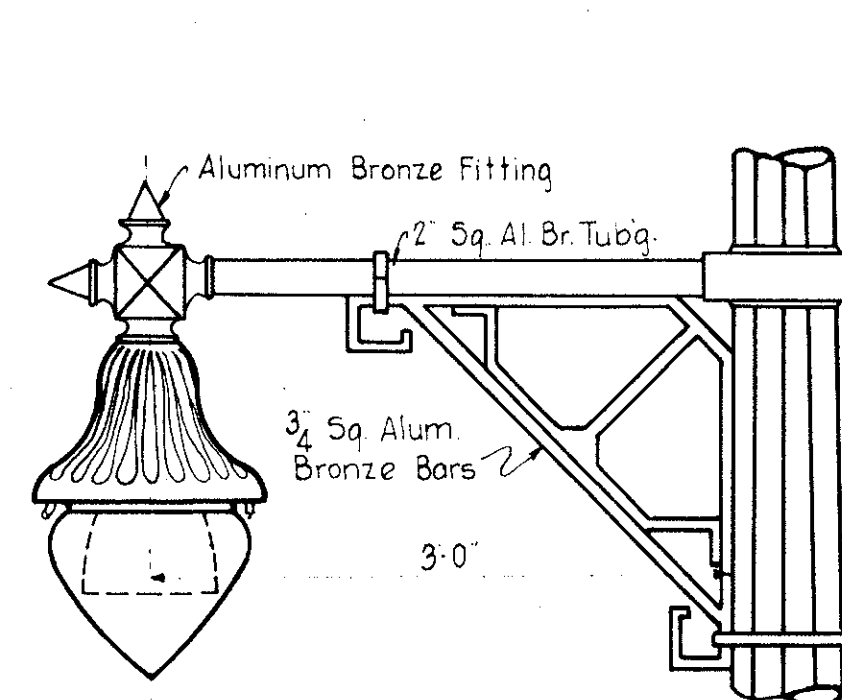
PLAN



SECTION A-A

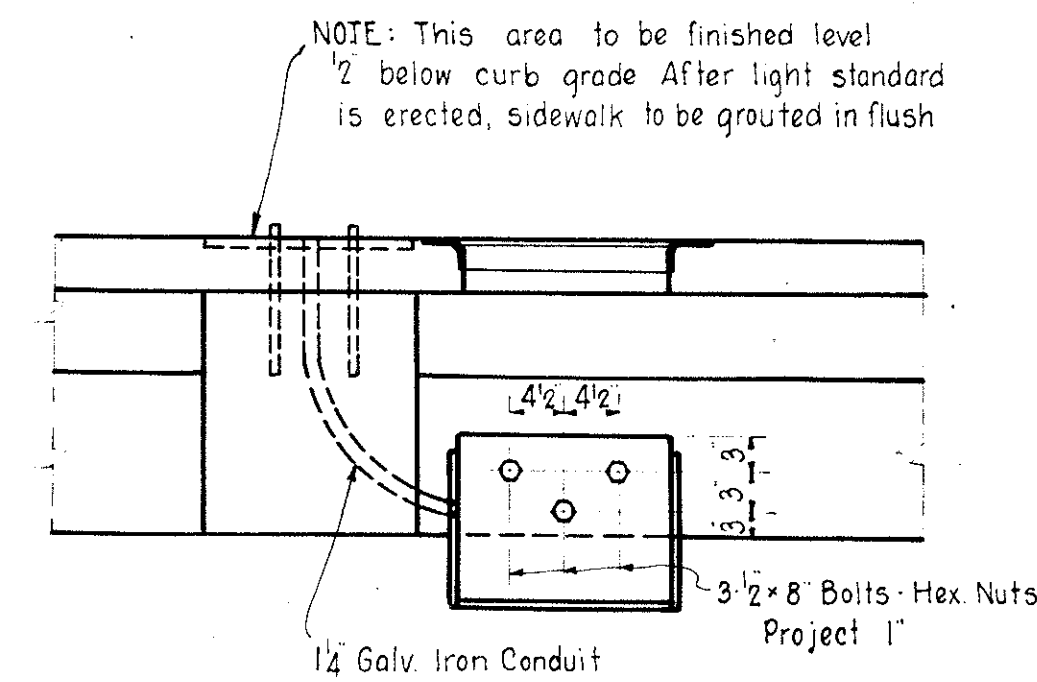
DETAILS OF LIGHT INSTALLATION ON DECK

Scale 3/4-1-0"

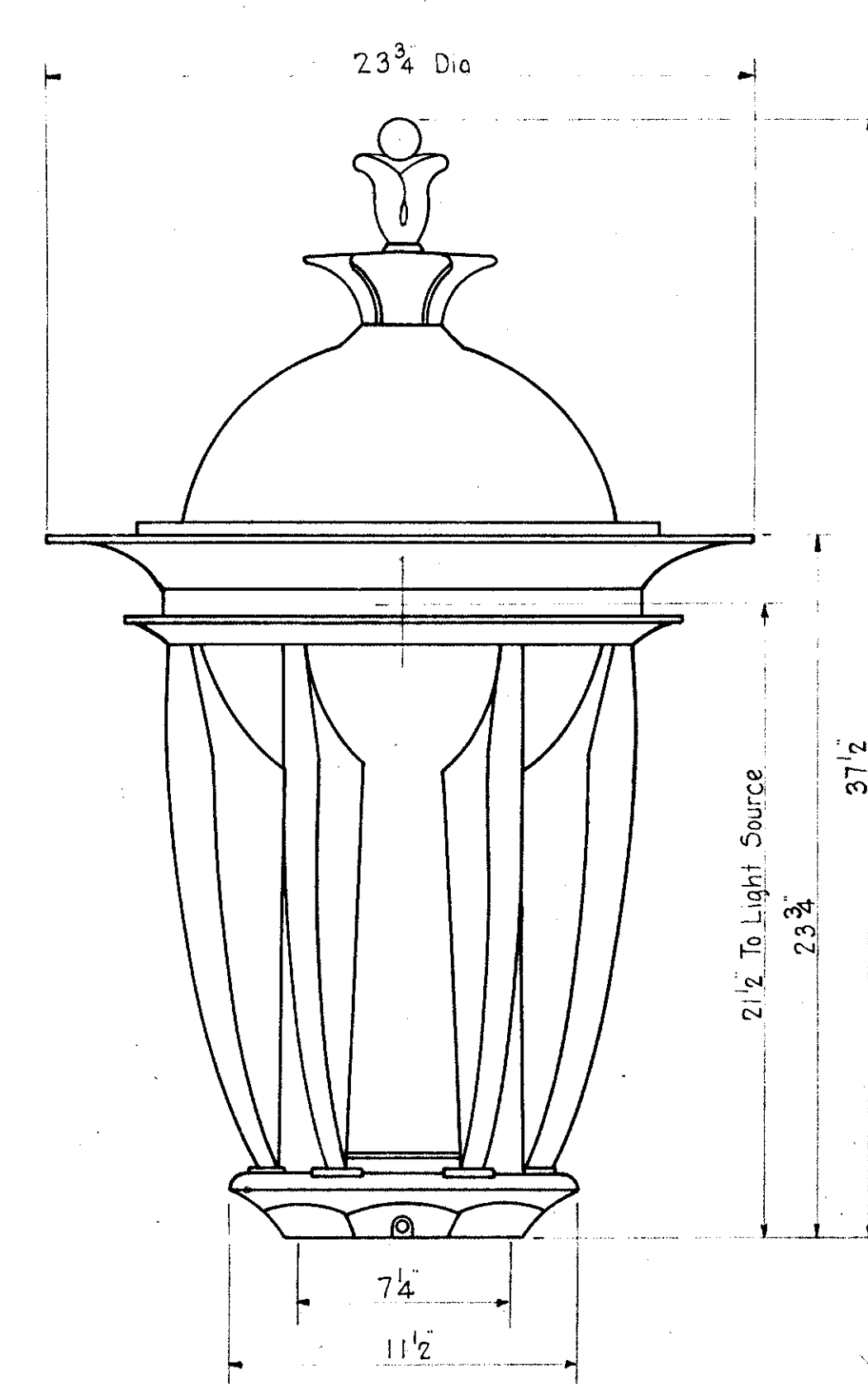


DETAIL OF FLORA-LIGHT UNIT

Scale 1-1-0"



SECTION B-B

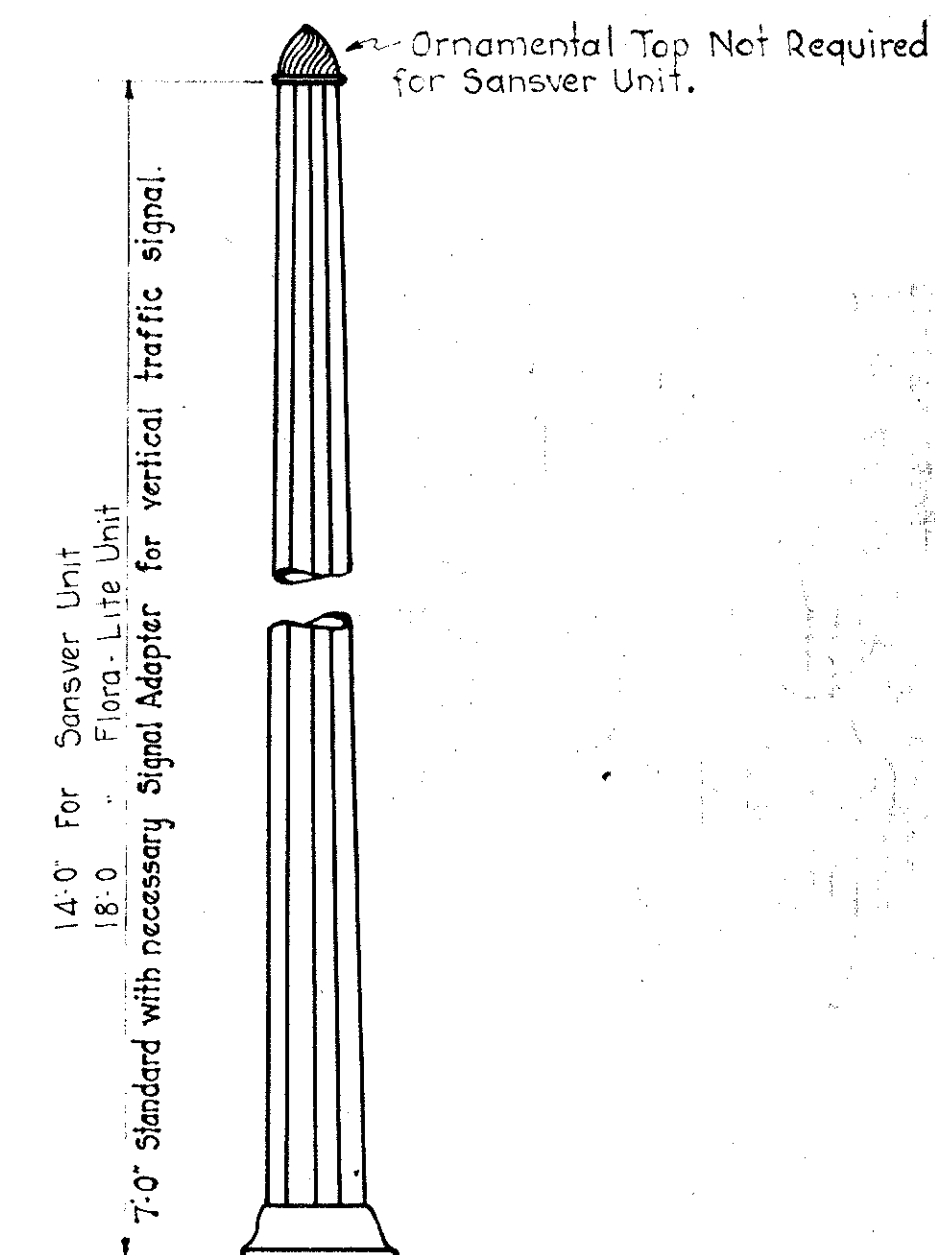


DETAIL OF SANSVER UNIT

Scale 3/8 Full Size

Ornamental Top Not Required for Sansver Unit.

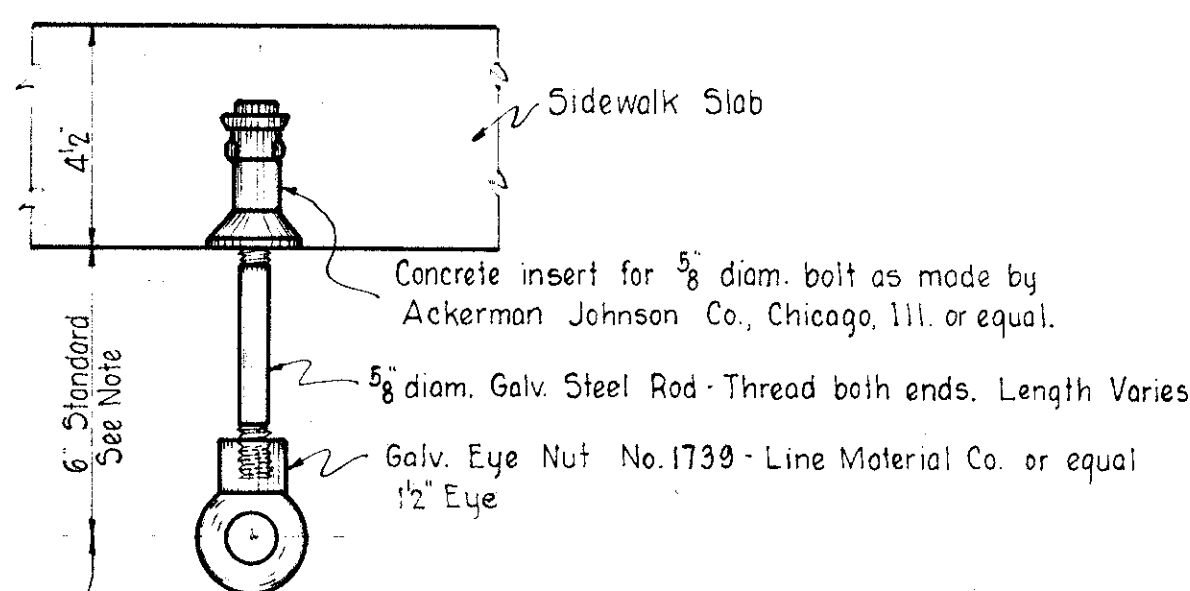
14-0 For Sansver Unit
18-0 Flora-Lite Unit
7-0 Standard with necessary signal Adapter for vertical traffic signal.



DETAIL OF LIGHT STANDARD

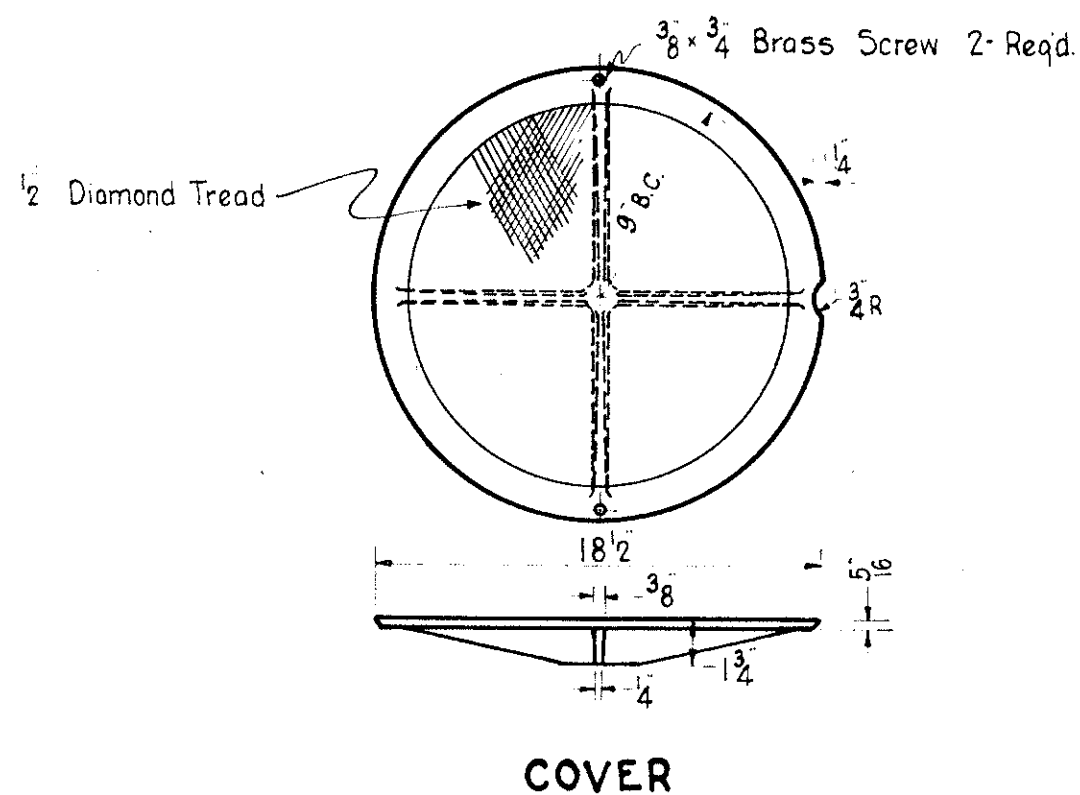
Scale 1-1-0"

NOTE: This light standard to be equal to Union Metal Lamp Standard Design No. 6006Y4



ASSEMBLY OF CABLE SUPPORT

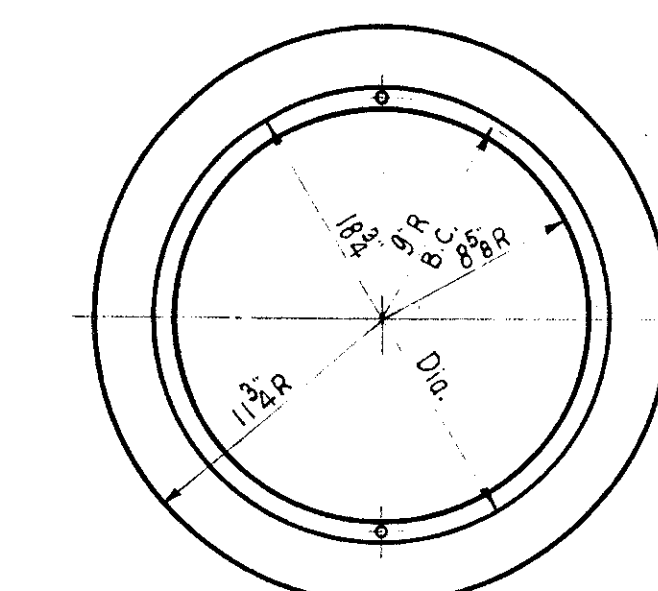
Scale 1/4 Full Size



COVER

DETAILS OF C.I. FRAME & COVER

Scale 1/2-1-0"



FRAME

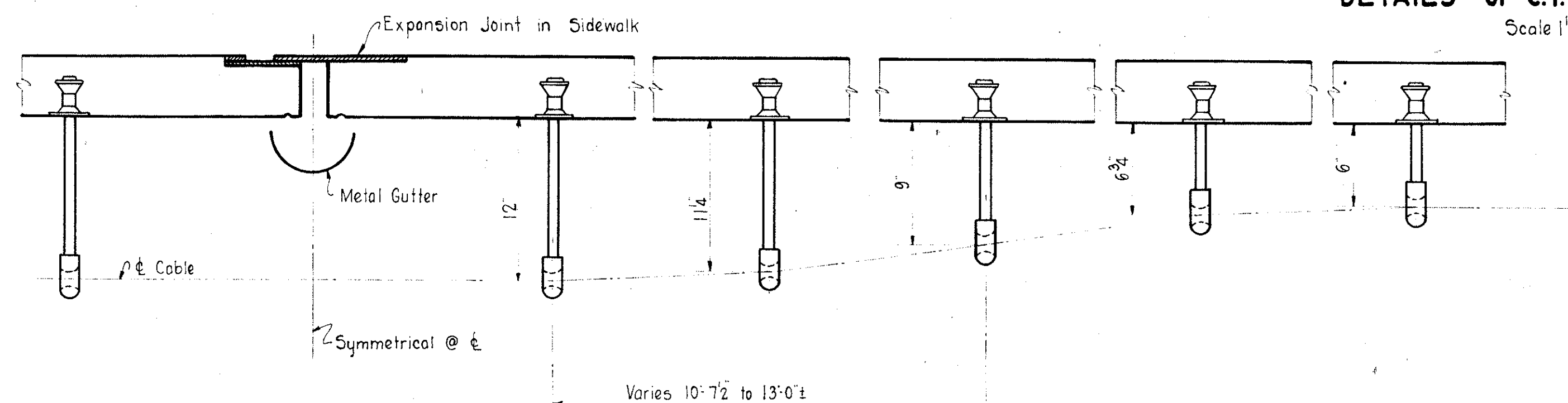
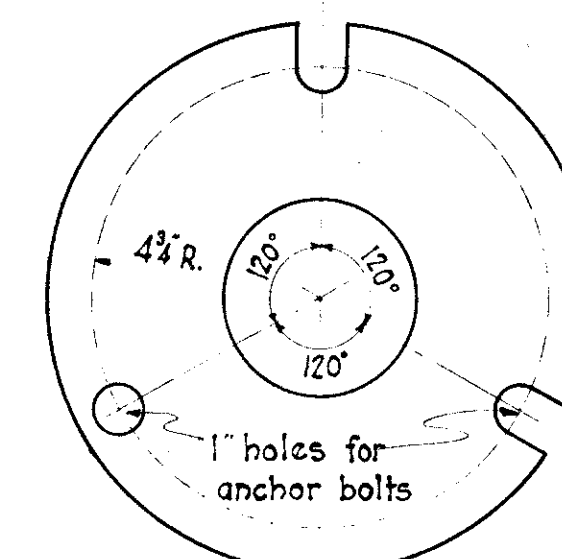
NOTE: This frame and cover are similar to Bordes Range and Foundry Co. Pattern No. B-1200, modified as shown.

GENERAL NOTES

For location of light standards, pull boxes, conduit lines, etc. see Acc. Nos. 5101 to 5106, 5108, 5112 to 5114, 5125. All details shown on this sheet, together with all other electrical work as shown on the plans and described in the specifications, is included in the lump sum item 'Electric Street Lighting System Complete.'

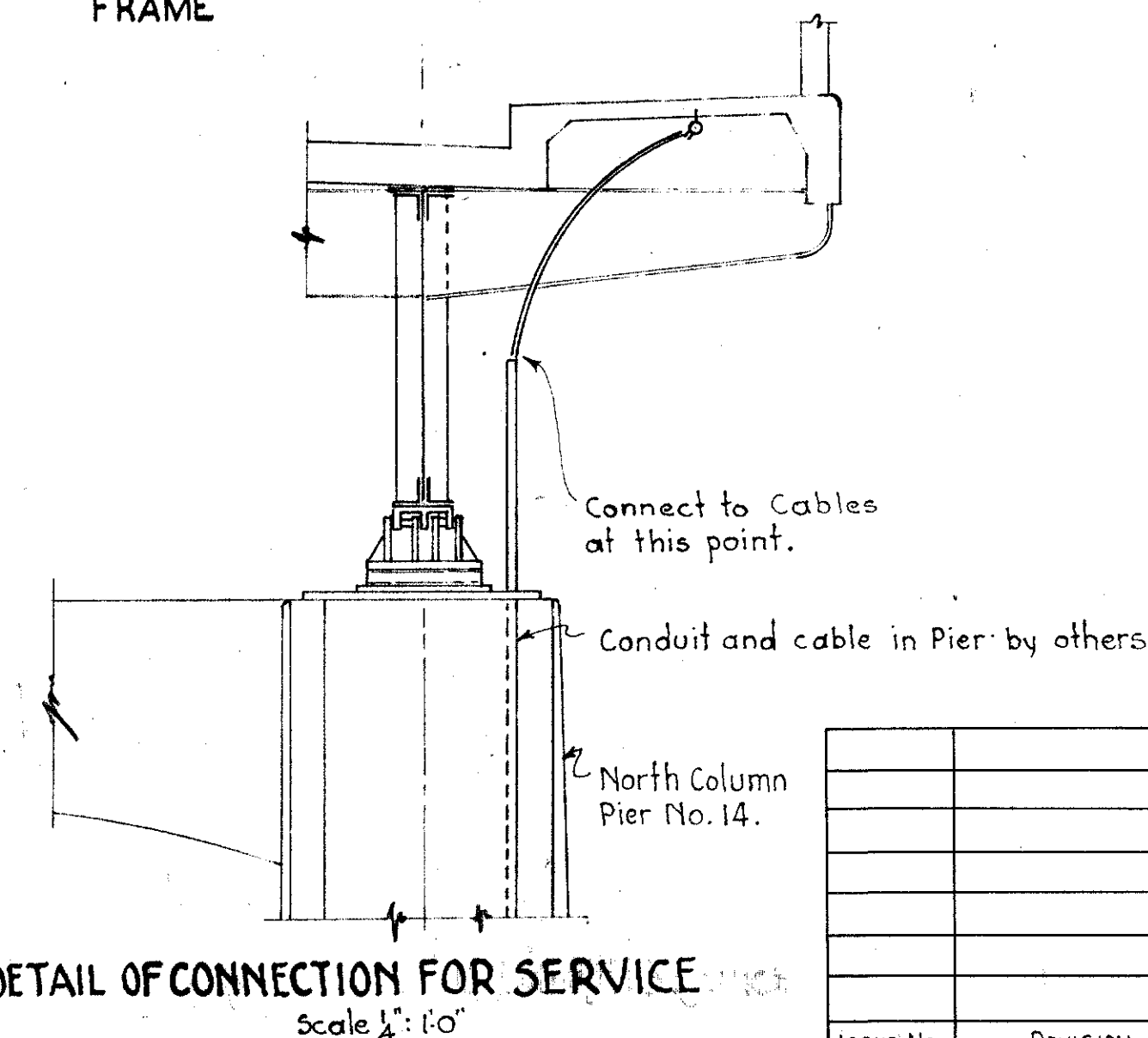
TEMPLATE FOR SETTING ANCHOR BOLTS FOR SAFETY ISLAND BEACON

Scale 3-1-0"



DETAILS OF CABLE SUSPENSION AT EXPANSION JOINTS

Scale 1/2-1-0"



DETAIL OF CONNECTION FOR SERVICE

Scale 1/2-1-0"

ISSUE No	REVISION	DATE	Sig.	Sig.

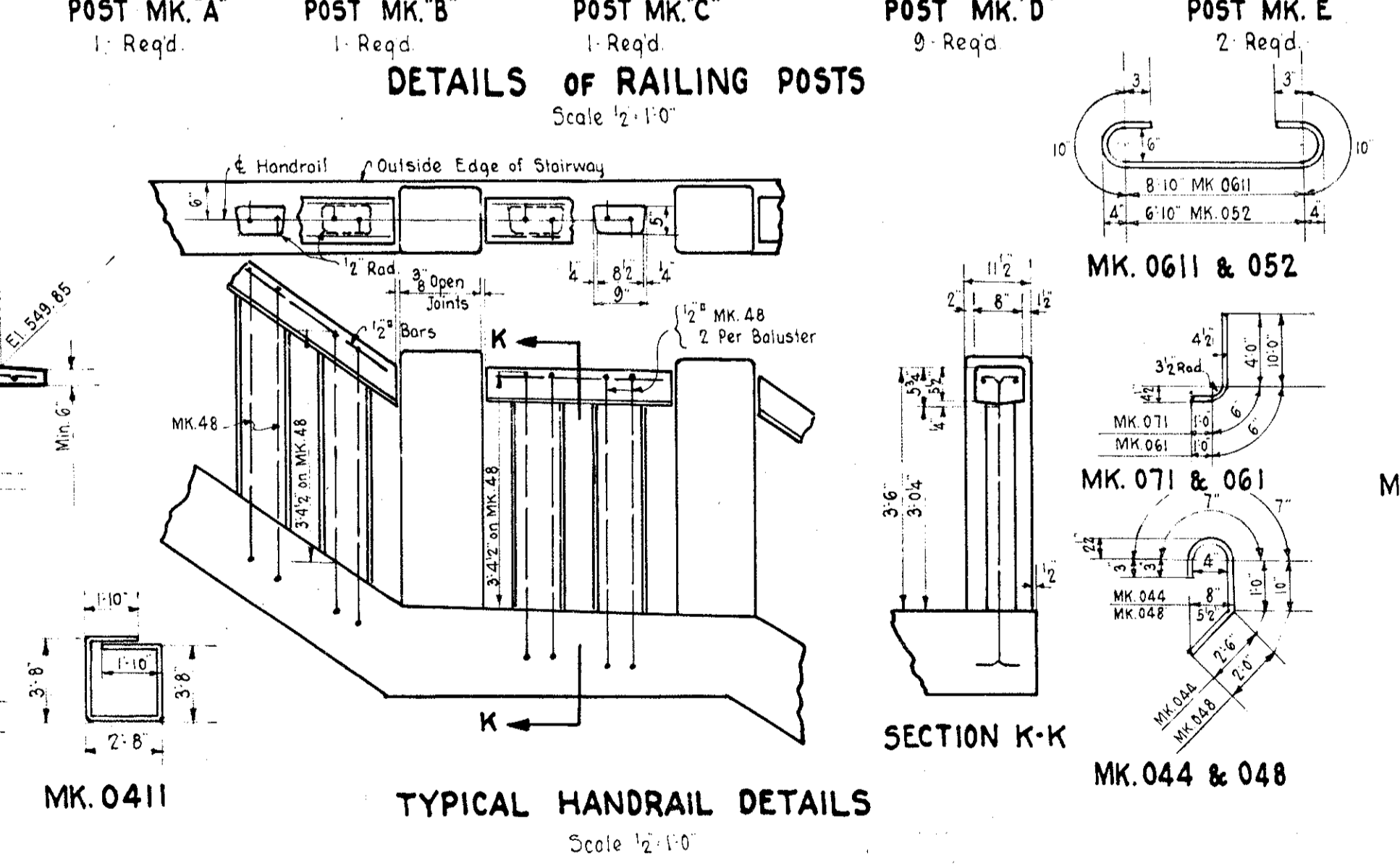
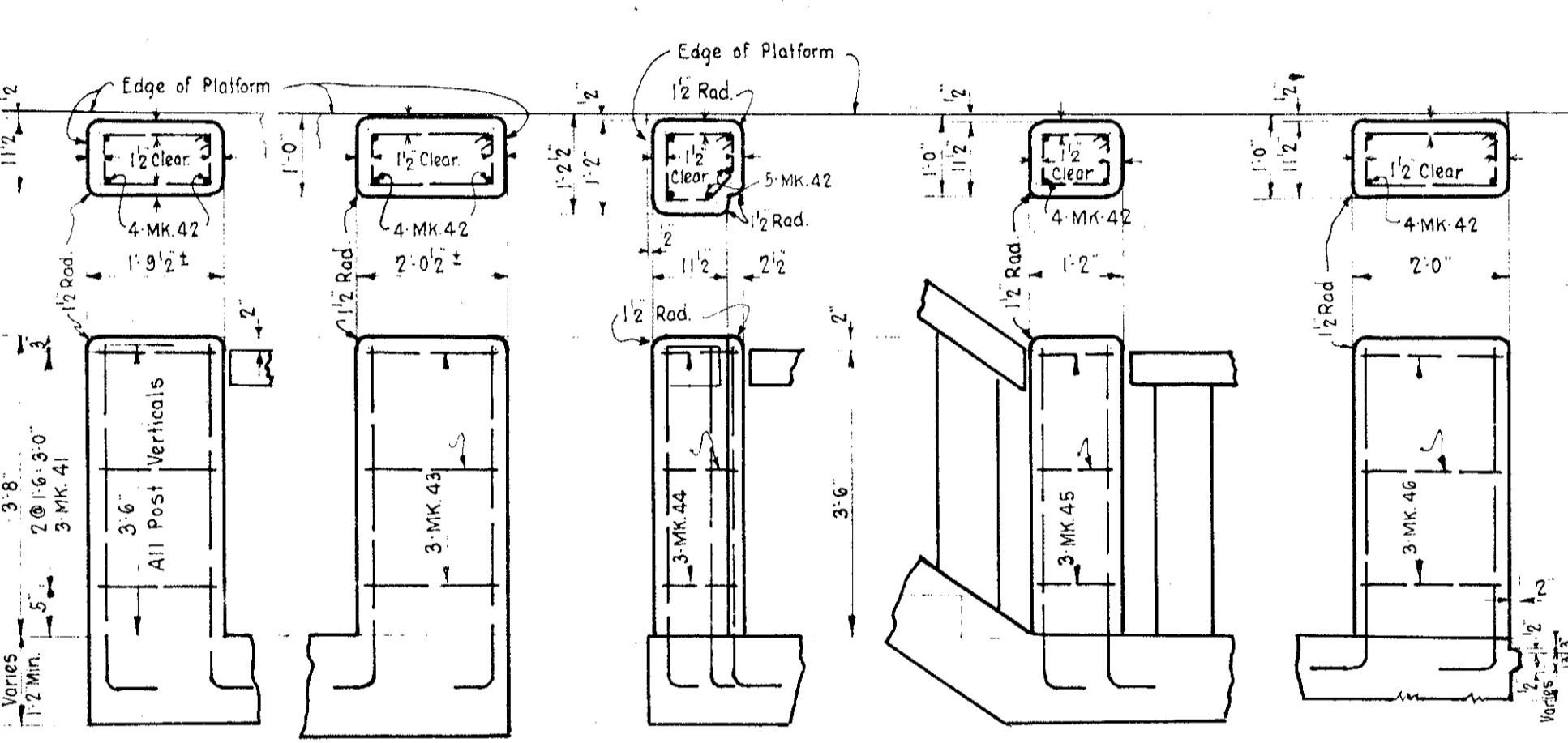
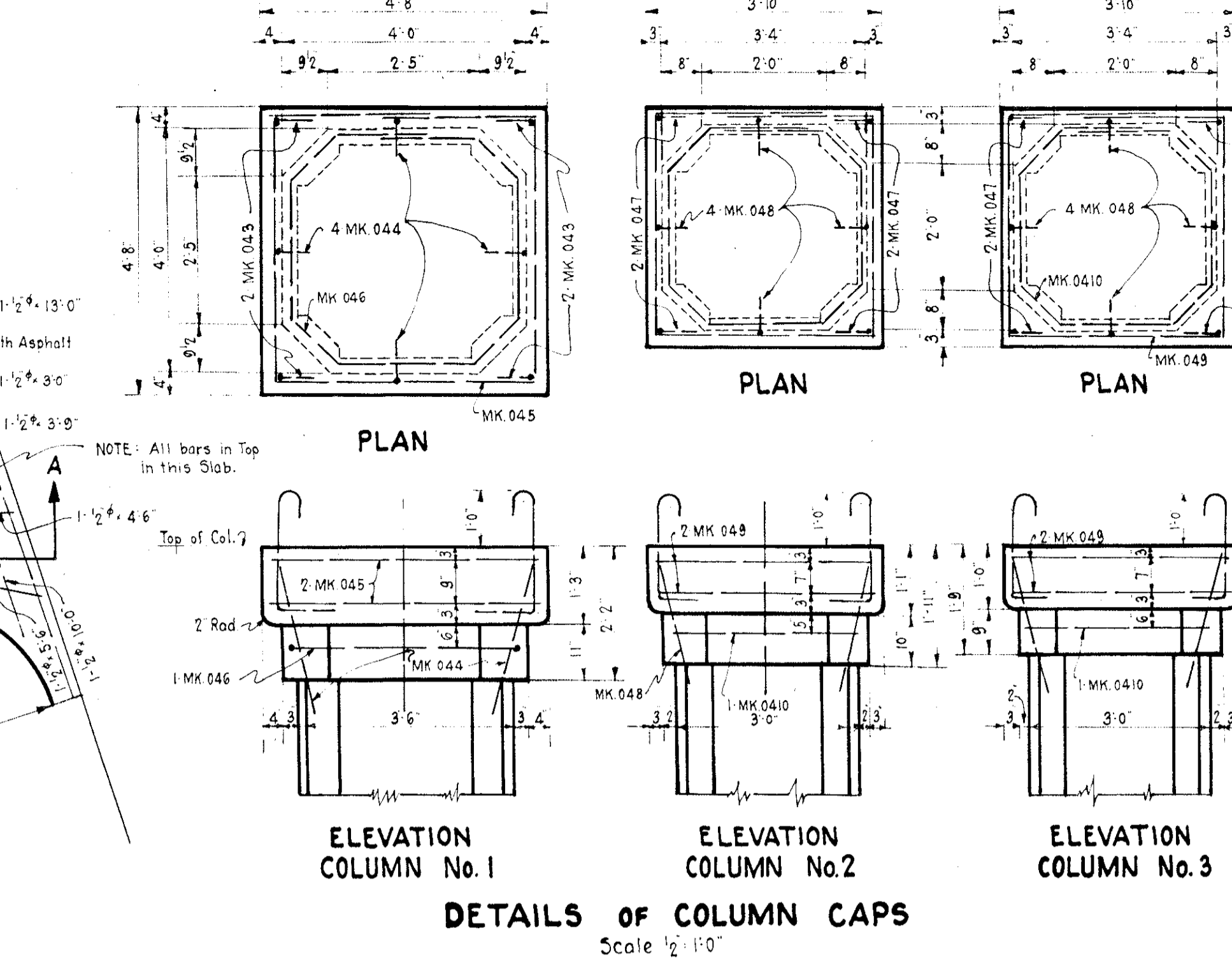
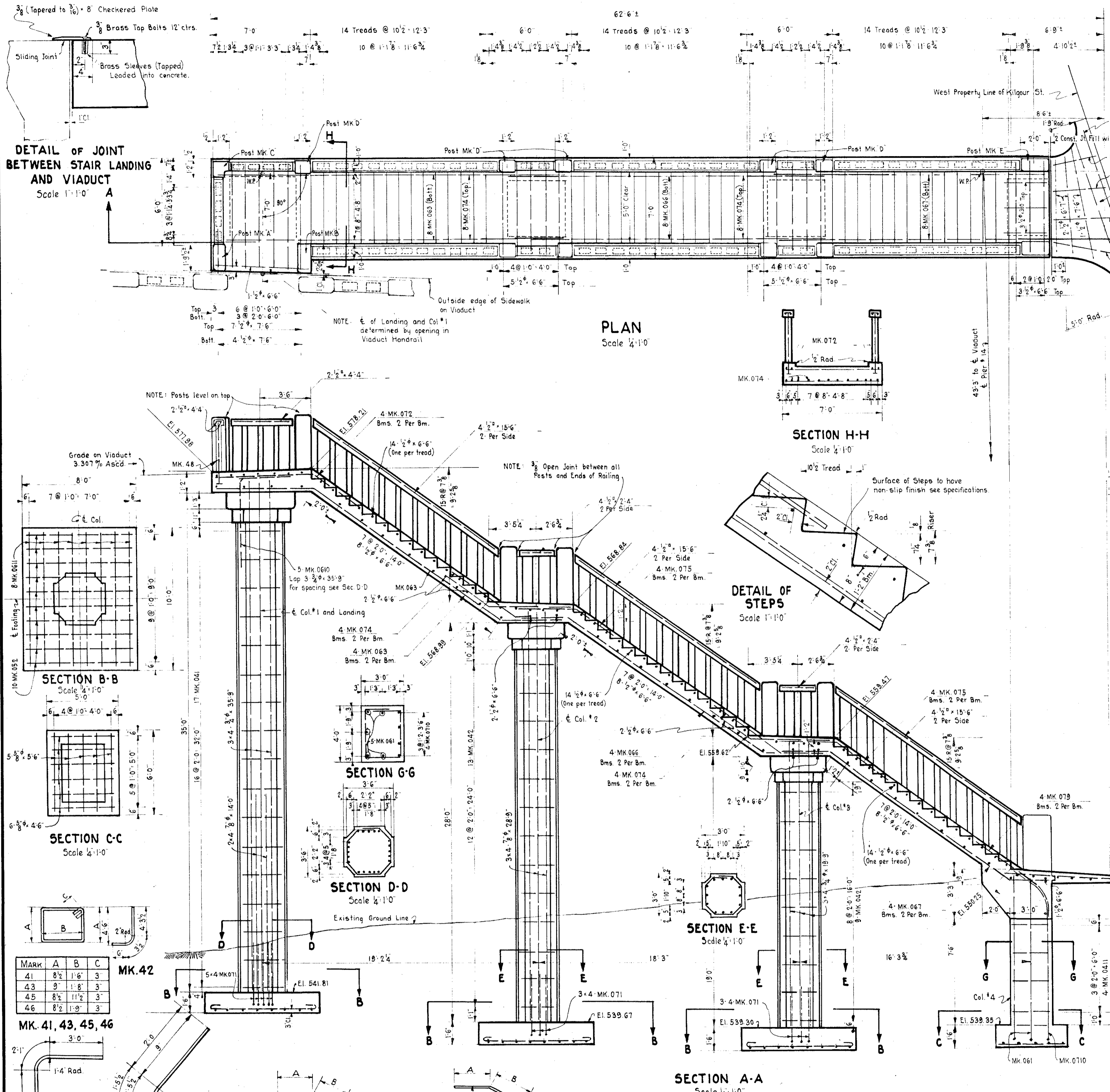
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
DETAILS OF STREET LIGHTING
DECK AND APPROACHES

SCALE: Indicated Aug. 1, 1936 ISSUE: #1

SUBMITTED: *[Signature]* APPROVED: *[Signature]*
SPECIAL ENGINEER ENGINEER IN CHARGE
APPROVED: *[Signature]* APPROVED: *[Signature]*
DIRECTOR OF PUBLIC WORKS ACTING CITY MANAGER

Acc. No. 5119

PRINT MADE



BILL OF REINFORCING STEEL				
NO.	MARK	SIZE	LENGTH	LOCATION
24	0611	3/4"	11'-0"	Footings
30	052	5/8"	9'-0"	
5	Str		5'-6"	
6			4'-6"	
12		3/4"	35'-9"	Column
8		7/8"	14'-0"	
44	071	7/8"	5'-6"	Dowels
17	041	1/2"	11'-6"	Ties
22	042		9'-6"	
12	Str	7/8"	28'-9"	Vertical
12		3/4"	19'-9"	
5	061		11'-6"	
4	043	1/2"	3'-2"	Cap
4	044		4'-4"	
2	045		18'-0"	
1	046		14'-0"	
8	047		2'-11"	
8	048		3'-8"	
4	049		14'-8"	
2	0410		11'-6"	
11	Str		7'-6"	Col. No. 1 Platform
84			6'-6"	Stairs & Platforms
4	072	7/8"	10'-0"	
12	063	3/4"	27'-6"	
24	074	7/8"	8'-6"	
8	075		9'-0"	
12	066	3/4"	24'-9"	
12	067		22'-0"	
3	Str	1/2"	3'-0"	
4	079	7/8"	6'-2 1/2"	Stairs & Platforms
1	Str	1/2"	3'-0"	Slab-Bottom of Stairs
1			3'-9"	
1			4'-6"	
1			5'-6"	
2			6'-7"	
1			7'-6"	
1			10'-0"	
1			13'-0"	
3	41	1/2"	4'-8"	Railing Posts
57	42		5'-11"	
3	43		5'-11"	
3	44		3'-10"	
27	45		3'-7"	
6	46		5'-2"	
164	48		4'-7"	Balusters
4	51r		4'-4"	
12			15'-6"	
8			2'-4"	
4	0411	7/8"	13'-4"	Col. No. 4
5	0610	3/4"	9'-7"	Top Col. No. 1
4	0710	7/8"	11'-8"	Col. No. 4

GENERAL NOTES

The item "Kilgour Street Stairway Complete" includes foundation excavation and backfill and the furnishing, placing and finishing of all concrete, reinforcing steel, handrail, steel joint plates, etc. as detailed on this drawing. It also includes finish grading and cleaning up the site.

For details of Viaduct deck Span 13-14 see Acc. No. 5113

For details of Handrail on Superstructure see Acc. No. 5123

The foundations shown are subject to revision as to depth and width as directed by the Engineer.

Construction Joints shall be made at the tops of Footings, tops of Column caps, and at the base of Handrail, or as directed by the Engineer.

Stair Treads to be given non-slip finish with Carborundum or similar material applied according to manufacturer's specifications.

For Concrete Mixtures see Specifications.

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

COLUMBIA AVENUE VIADUCT
OVER EGLESTON AVENUE

STAIRWAY AT KILGOUR STREET

SCALE: indicated AUG. 1, 1936 ISSUE: 1

SUBMITTED: *[Signature]* APPROVED: *[Signature]*
SPECIAL ENGINEER ENGINEER IN CHARGE

APPROVED: *[Signature]* APPROVED: *[Signature]*
DIRECTOR OF PUBLIC WORKS ACTING CITY MANAGER

Acc. No. 5120
PRINT MADE 16-9-45

MARK	A	B	C
41	8 1/2	1 1/2	3
43	9	1 1/2	3
45	8 1/2	1 1/2	3
46	8 1/2	1 1/2	3

MARK	A	B	C
072	6'-0"	4'-0"	2'-3"
074	4'-6"	4'-0"	2'-3"
075	5'-0"	4'-0"	2'-3"

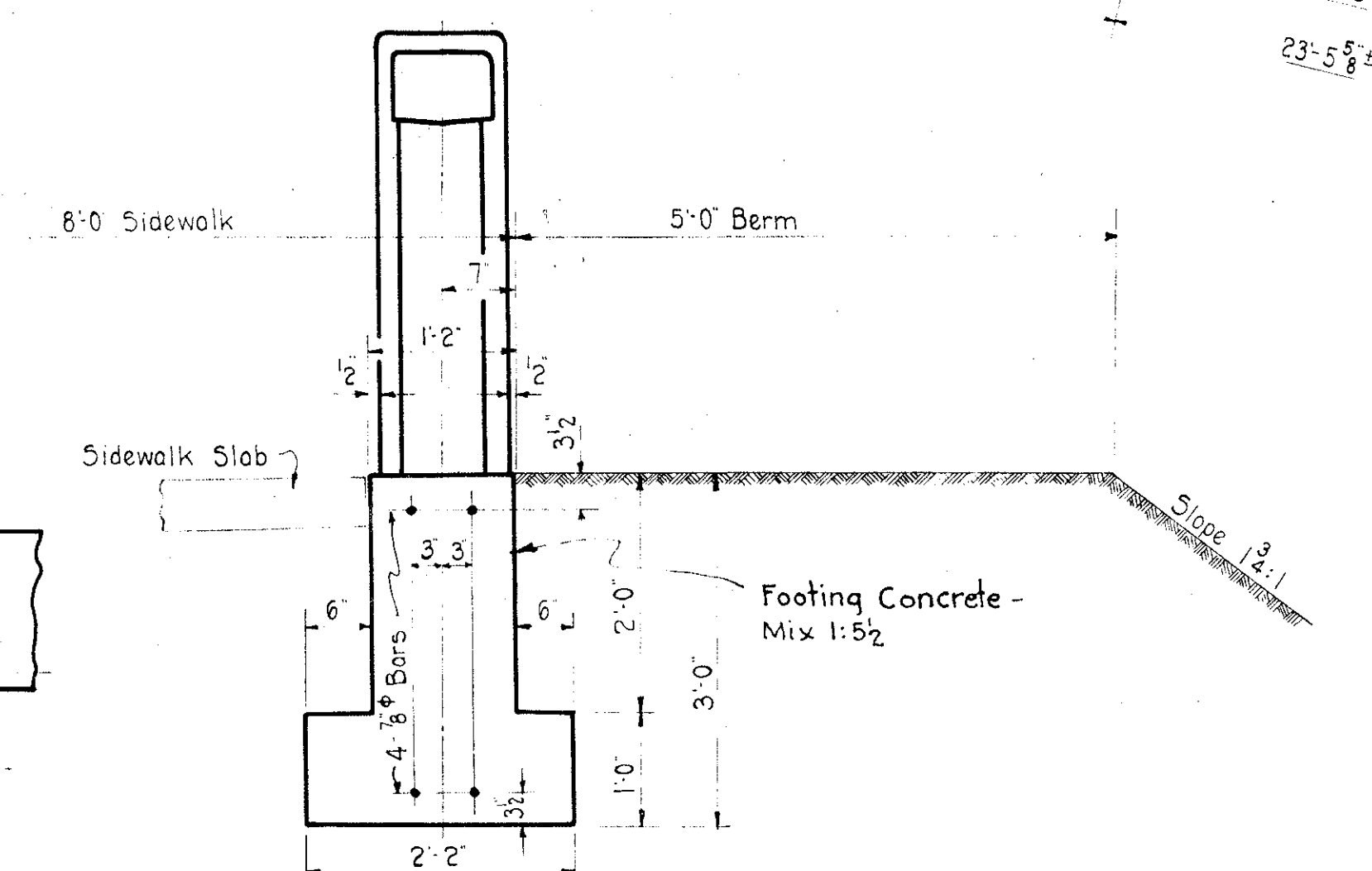
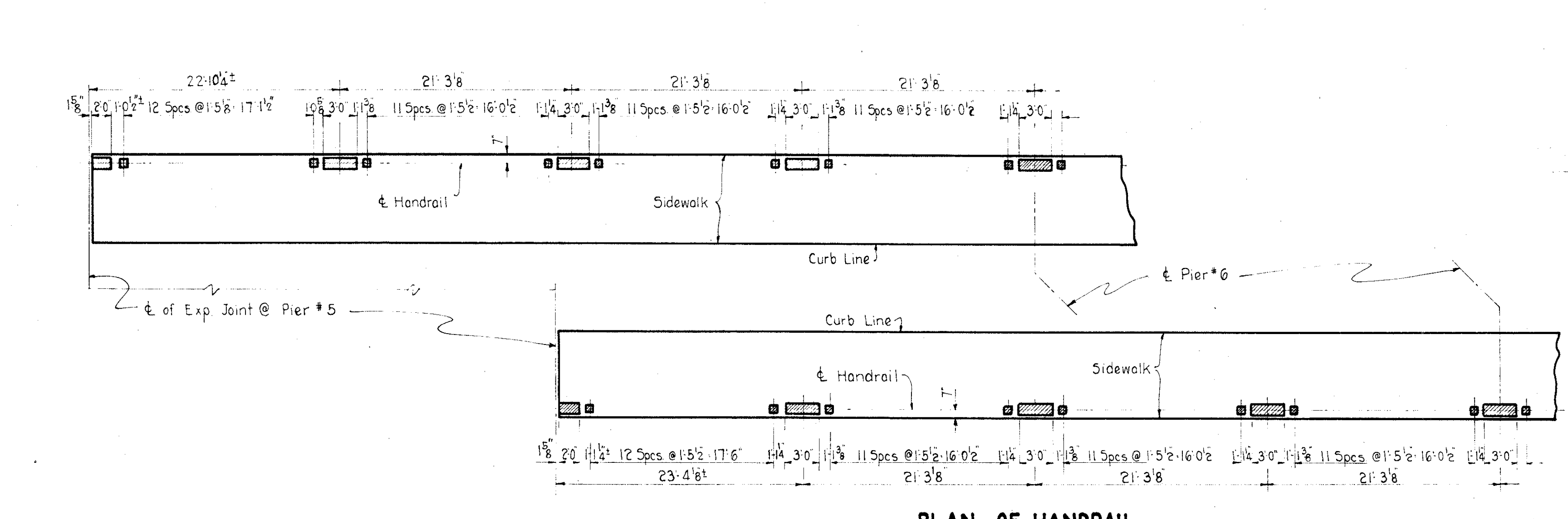
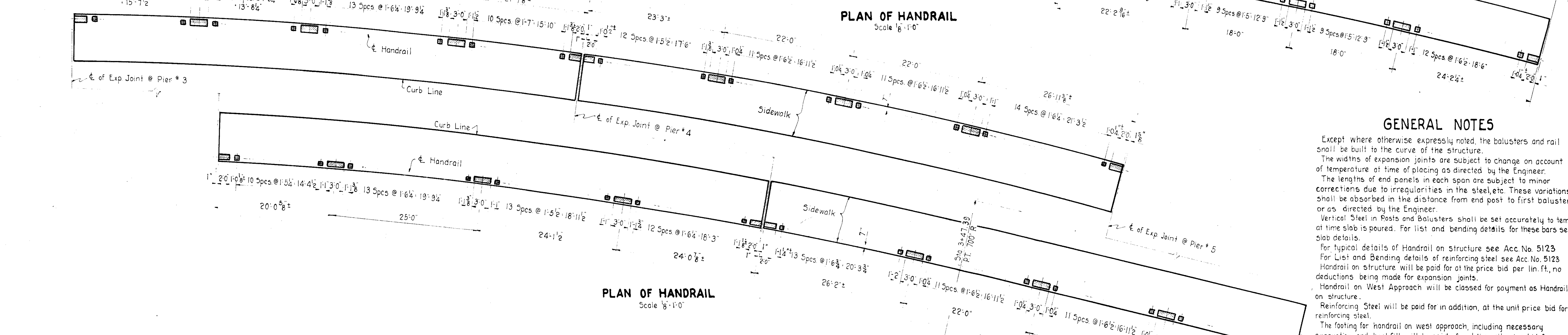
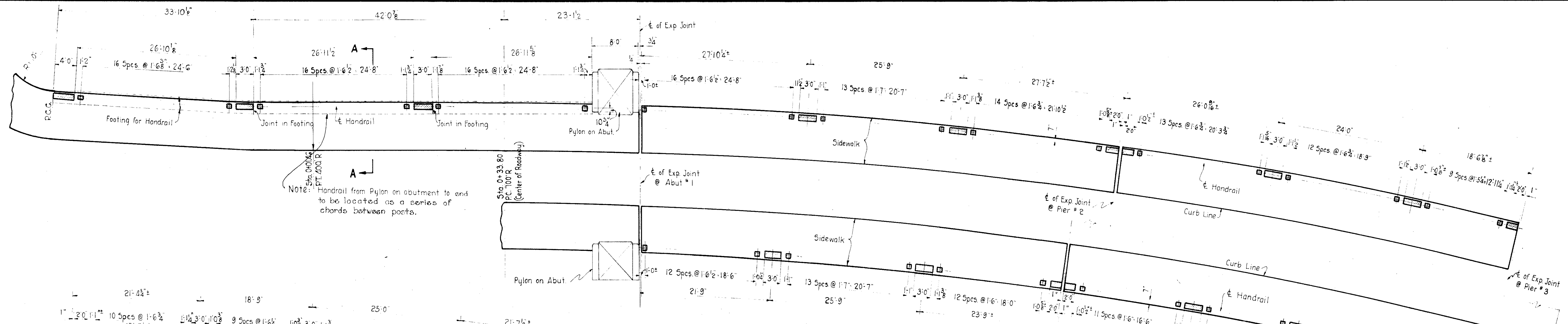
MARK	A	B	C	D
063	6'-9"	16'-0"	4'-9"	9'-3 1/2"
066	4'-0"	16'-0"	4'-9"	9'-4"
067	4'-0"	15'-4"	2'-8"	8'-10"

MK. 079 & 0710

MK. 072, 074, 075

MK. 063, 066, 067

ISSUE NO.	REVISION	DATE	SIG.	SIG.



GENERAL NOTES

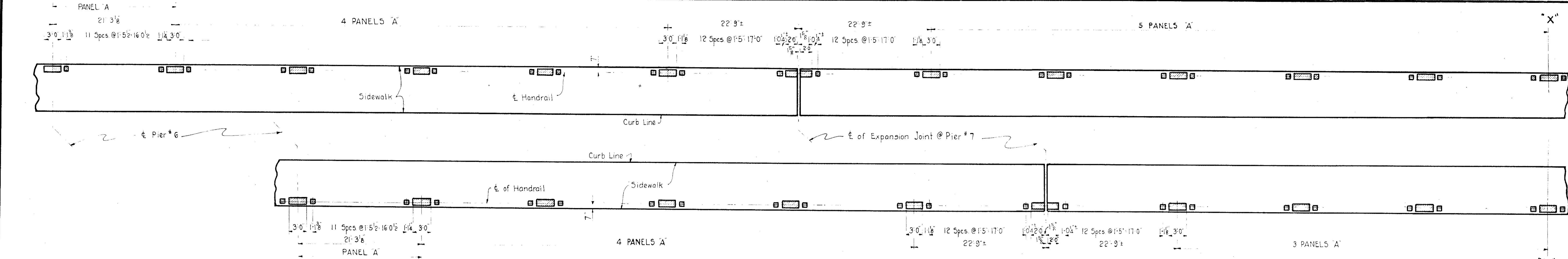
Except where otherwise expressly noted, the balusters and rail shall be built to the curve of the structure.
 The widths of expansion joints are subject to change on account of temperature at time of placing as directed by the Engineer.
 The lengths of end panels in each span are subject to minor corrections due to irregularities in the steel, etc. These variations shall be absorbed in the distance from end post to first baluster, or as directed by the Engineer.
 Vertical Steel in Posts and Balusters shall be set accurately to template at time slab is poured. For list and bending details for these bars see slab details.
 For typical details of Handrail on structure see Acc. No. 5123
 For List and Bending details of reinforcing steel see Acc. No. 5123
 Handrail on structure will be paid for at the price bid per lin. ft., no deductions being made for expansion joints.
 Handrail on West Approach will be classed for payment as Handrail on structure.
 Reinforcing Steel will be paid for in addition, at the unit price bid for reinforcing steel.
 The footing for handrail on west approach, including necessary excavation and backfill, will be paid for at the unit price bid for handrail footing concrete.
 For Quantities See Acc. No. 5123

CITY OF CINCINNATI
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
 OVER EGGLESTON AVENUE
HANDRAIL DETAILS
FROM WEST END TO PIER No. 6

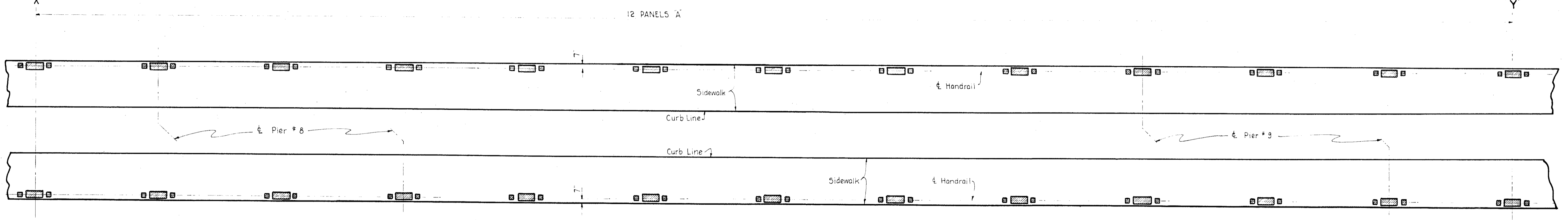
SCALE: 1/8" = 1'-0" AUG. 1, 1936 ISSUE: 1
 SUBMITTED: [Signature] APPROVED: [Signature]
 SPECIAL ENGINEER ENGINEER OF HIGHWAYS
 APPROVED: [Signature] APPROVED: [Signature]
 DIRECTOR OF PUBLIC WORKS ACTING CITY MANAGER

ISSUE No.	REVISION	DATE	Sig.	Sig.

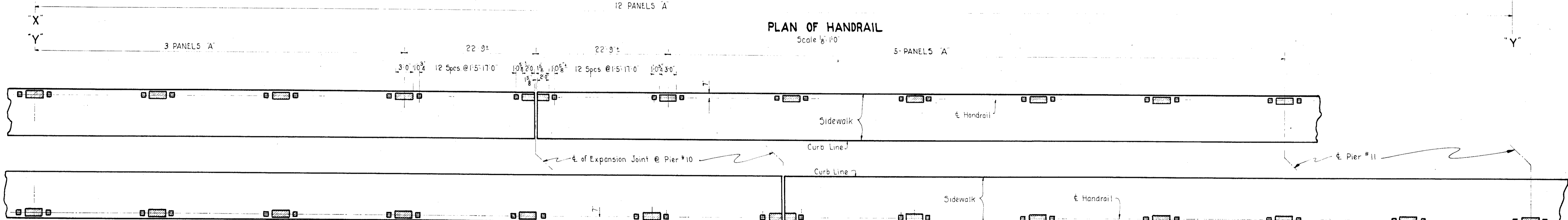
Acc. No. 5121
 PRINT MADE



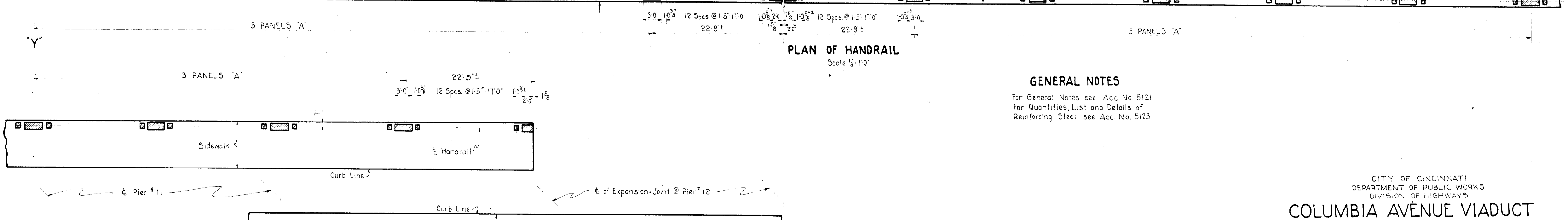
PLAN OF HANDRAIL
Scale 1/8" = 1'-0"



PLAN OF HANDRAIL
Scale 1/8" = 1'-0"



PLAN OF HANDRAIL
Scale 1/8" = 1'-0"



PLAN OF HANDRAIL
Scale 1/8" = 1'-0"

GENERAL NOTES

For General Notes see Acc. No. 5121
For Quantities, List and Details of
Reinforcing Steel see Acc. No. 5123

ISSUE NO.	REVISION	DATE	SIG.	SIG.

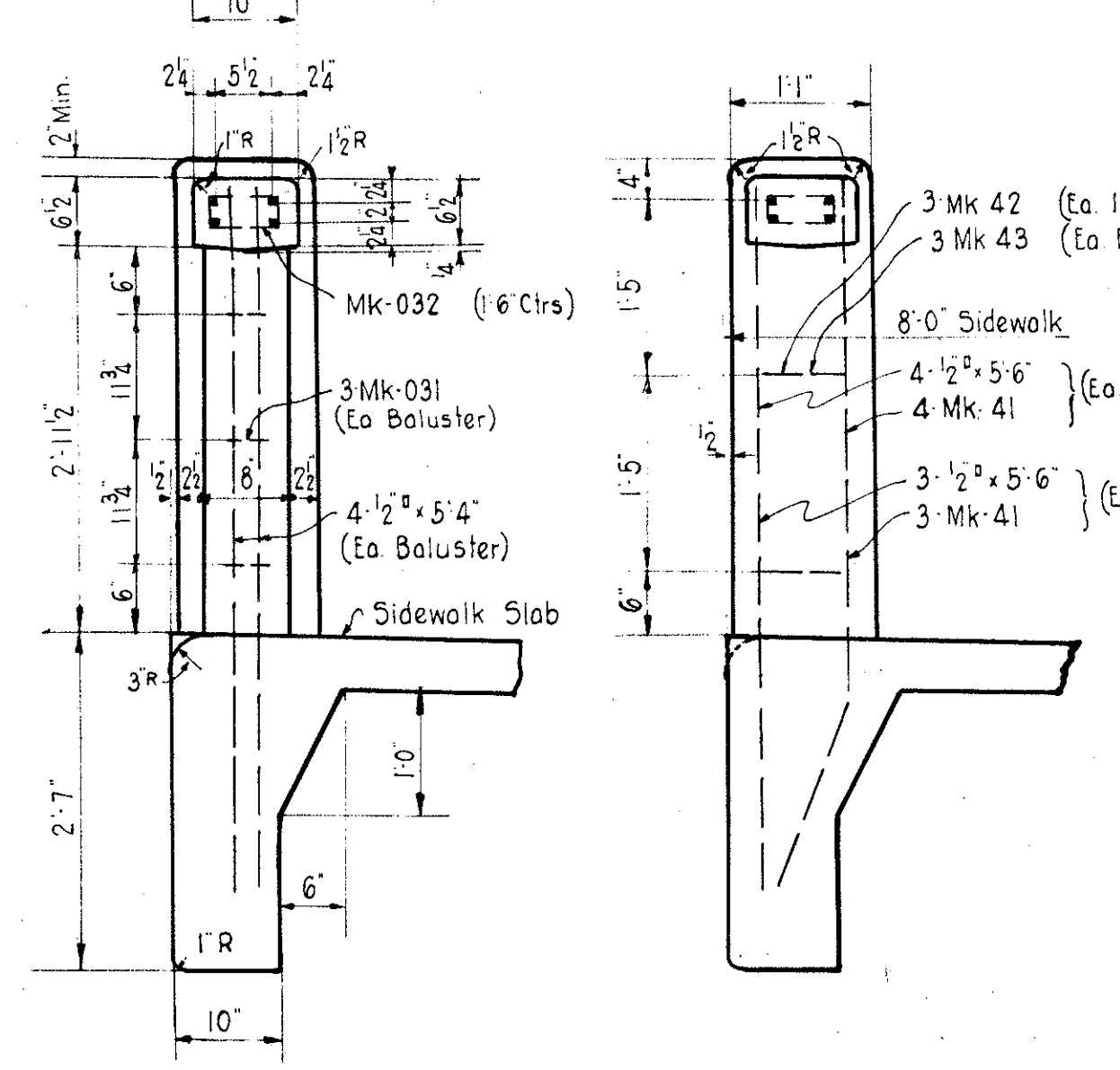
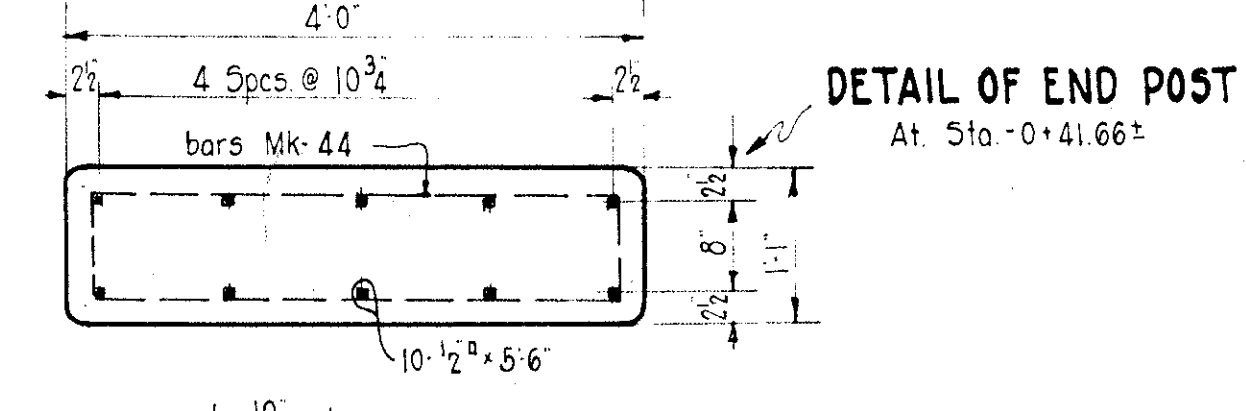
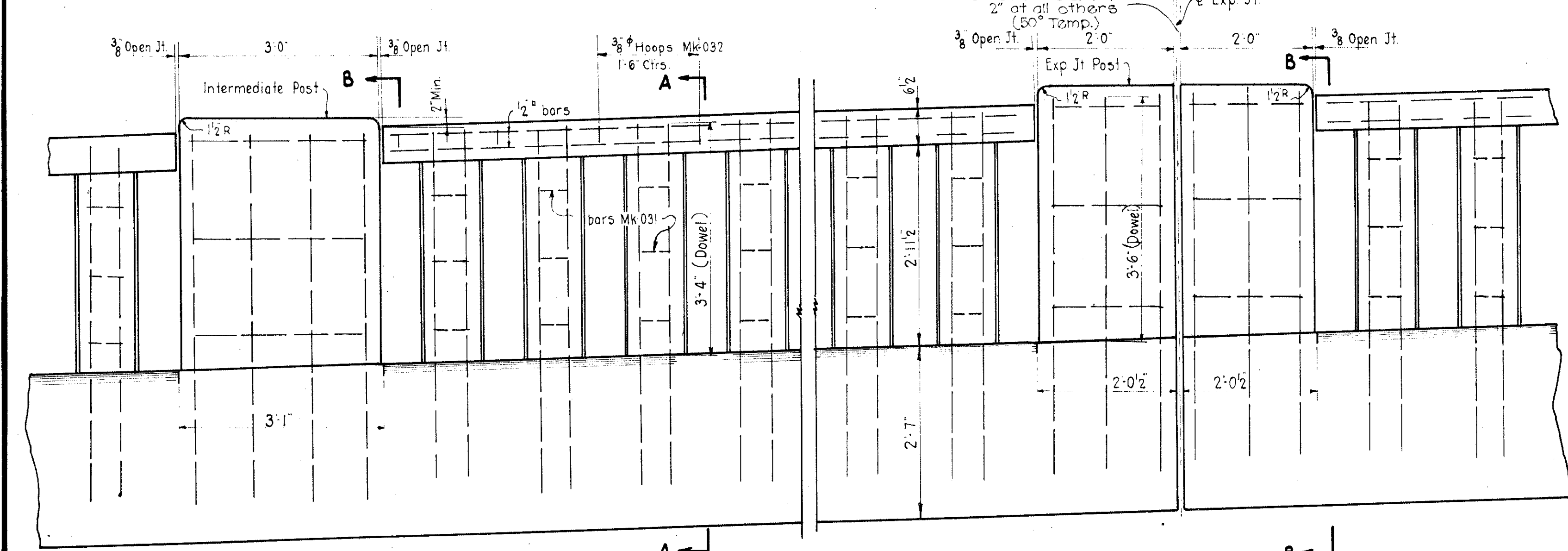
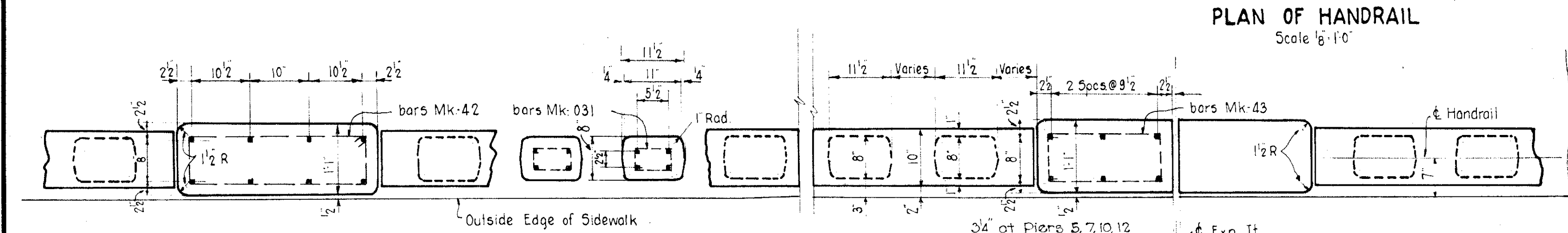
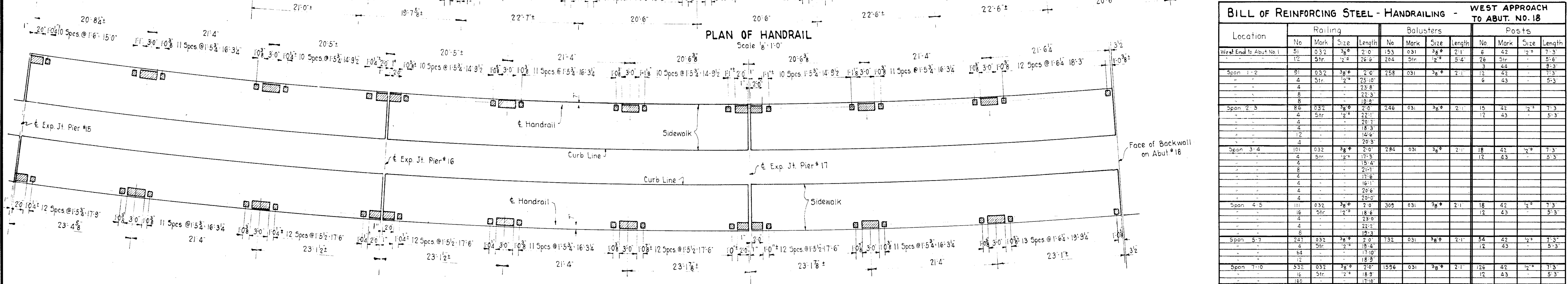
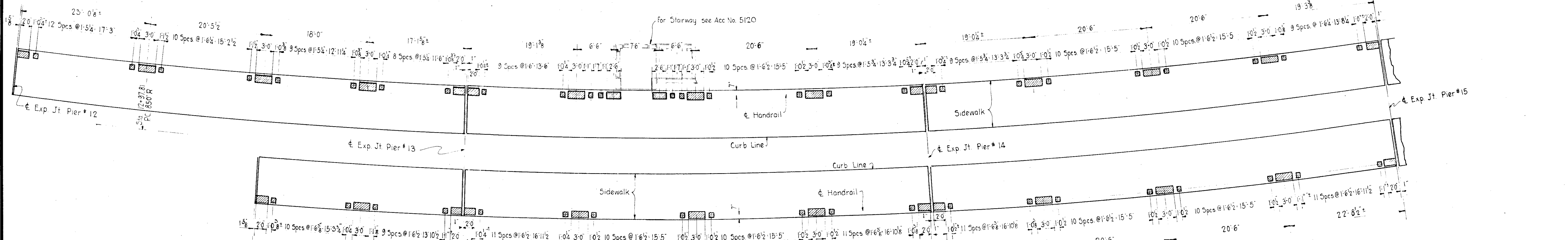
CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
**COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
HANDRAIL DETAILS
PIER No. 6 TO PIER No. 12**

SCALE: 1/8" = 1'-0" AUG. 1, 1926 ISSUE: 1

SUBMITTED: *[Signature]* SPECIAL ENGINEER
APPROVED: *[Signature]* ENGINEER OF HIGHWAYS
APPROVED: *[Signature]* DIRECTOR OF PUBLIC WORKS
APPROVED: *[Signature]* ACTING CITY MANAGER

ACC. NO. 5122

G.E.C.
S.A.M.G.
W.J.S.
[Signature]



BILL OF REINFORCING STEEL - HANDRAILING - WEST APPROACH TO ABUT. NO. 18												
Location	Railing				Balusters				Posts			
	No	Mark	Size	Length	No	Mark	Size	Length	No	Mark	Size	Length
West End to Abut. No. 1	51	032	3/8"	210	153	031	3/8"	211	6	42	1/2"	71.3
12	51	032	3/8"	266	204	031	3/8"	264	26	031	3/8"	51.6
Span 1-2	91	032	3/8"	210	158	031	3/8"	211	6	43	1/2"	71.3
4	4	031	1/2"	251.0	4	031	1/2"	251.0	4	43	1/2"	51.3
8	8	031	1/2"	223.8	8	031	1/2"	223.8	8	43	1/2"	51.3
Span 2-3	8	032	3/8"	210	246	031	3/8"	211	15	42	1/2"	71.3
4	4	031	1/2"	221.1	4	031	1/2"	221.1	17	43	1/2"	51.3
8	8	031	1/2"	201.1	8	031	1/2"	201.1	18	42	1/2"	71.3
12	12	031	1/2"	183.3	12	031	1/2"	183.3	12	43	1/2"	51.3
Span 3-4	101	032	3/8"	210	284	031	3/8"	211	18	42	1/2"	71.3
4	4	031	1/2"	171.3	4	031	1/2"	171.3	12	43	1/2"	51.3
8	8	031	1/2"	151.4	8	031	1/2"	151.4	12	43	1/2"	51.3
12	12	031	1/2"	146.6	12	031	1/2"	146.6	12	43	1/2"	51.3
Span 4-5	111	032	3/8"	210	309	031	3/8"	211	18	42	1/2"	71.3
16	16	031	1/2"	218.6	16	031	1/2"	218.6	12	43	1/2"	51.3
4	4	031	1/2"	231.0	4	031	1/2"	231.0	12	43	1/2"	51.3
8	8	031	1/2"	191.3	8	031	1/2"	191.3	12	43	1/2"	51.3
Span 5-7	247	032	3/8"	210	732	031	3/8"	211	54	42	1/2"	71.3
4	4	031	1/2"	191.3	4	031	1/2"	191.3	12	43	1/2"	51.3
8	8	031	1/2"	171.0	8	031	1/2"	171.0	12	43	1/2"	51.3
12	12	031	1/2"	181.9	12	031	1/2"	181.9	12	43	1/2"	51.3
Span 7-10	332	032	3/8"	210	1596	031	3/8"	211	126	42	1/2"	71.3
16	16	031	1/2"	181.9	16	031	1/2"	181.9	12	43	1/2"	51.3
4	4	031	1/2"	171.0	4	031	1/2"	171.0	12	43	1/2"	51.3
8	8	031	1/2"	181.9	8	031	1/2"	181.9	12	43	1/2"	51.3
Span 10-12	244	032	3/8"	210	732	031	3/8"	211	54	42	1/2"	71.3
12	12	031	1/2"	171.0	12	031	1/2"	171.0	12	43	1/2"	51.3
16	16	031	1/2"	181.9	16	031	1/2"	181.9	12	43	1/2"	51.3
Span 12-13	61	032	3/8"	210	192	031	3/8"	211	12	42	1/2"	71.3
4	4	031	1/2"	181.9	4	031	1/2"	181.9	12	43	1/2"	51.3
8	8	031	1/2"	171.0	8	031	1/2"	171.0	12	43	1/2"	51.3
12	12	031	1/2"	181.9	12	031	1/2"	181.9	12	43	1/2"	51.3
Span 13-14	86	032	3/8"	210	243	031	3/8"	211	18	42	1/2"	71.3
4	4	031	1/2"	151.2	4	031	1/2"	151.2	12	43	1/2"	51.3
8	8	031	1/2"	151.2	8	031	1/2"	151.2	12	43	1/2"	51.3
12	12	031	1/2"	151.2	12	031	1/2"	151.2	12	43	1/2"	51.3
Span 14-16	93	032	3/8"	210	284	031	3/8"	211	18	42	1/2"	71.3
4	4	031	1/2"	181.9	4	031	1/2"	181.9	12	43	1/2"	51.3
8	8	031	1/2"	171.0	8	031	1/2"	171.0	12	43	1/2"	51.3
12	12	031	1/2"	181.9	12	031	1/2"	181.9	12	43	1/2"	51.3
Span 15-16	74	032	3/8"	210	216	031	3/8"	211	12	42	1/2"	71.3
4	4	031	1/2"	161.8	4	031	1/2"	161.8	12	43	1/2"	51.3
8	8	031	1/2"	171.0	8	031	1/2"	171.0	12	43	1/2"	51.3
12	12	031	1/2"	181.9	12	031	1/2"	181.9	12	43	1/2"	51.3
Span 16-17	74	032	3/8"	210	216	031	3/8"	211	12	42	1/2"	71.3
4	4	031	1/2"	161.8	4	031	1/2"	161.8	12	43	1/2"	51.3
8	8	031	1/2"	171.0	8	031	1/2"	171.0	12	43	1/2"	51.3
12	12	031	1/2"	181.9	12	031	1/2"	181.9	12	43	1/2"	51.3
Span 17-18	78	032	3/8"	210	225	031	3/8"	211	12	42	1/2"	71.3
4	4	031	1/2"	161.6	4	031	1/2"	161.6	6	43	1/2"	51.3
8	8	031	1/2"	181.9	8	031	1/2"	181.9	12	43	1/2"	51.3
12	12	031	1/2"	191.3	12	031	1/2"	191.3	12	43	1/2"	51.3
West End to Abut. No. 1	12	031	3/8"	266	Hand Rail Footing							

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANT.
Handrail Footing Concrete	Cu. Yds.	15
Handrail on Structure	Lin. Ft.	3410
Reinforcing Steel	Lbs.	19800

TYPICAL HANDRAIL DETAILS Scale 3/4"=1'-0"

GENERAL NOTES

Estimated Quantities and Bill of Reinforcing Steel shown on this sheet cover all Handrail on Structure see Acc. Nos. 5121 to 5123. For Handrail on East Approach see Acc. No. 5124. General Notes on Acc. No. 5121 apply also to this sheet. Vertical bars in Posts and Balusters are Billed and Detailed on Floor Slab Dwg.

SECTION A-A Scale 3/4"=1'-0"

DETAIL OF 2'-6" POST AT STAIRWAY SPAN 12-13 Scale 3/4"=1'-0"

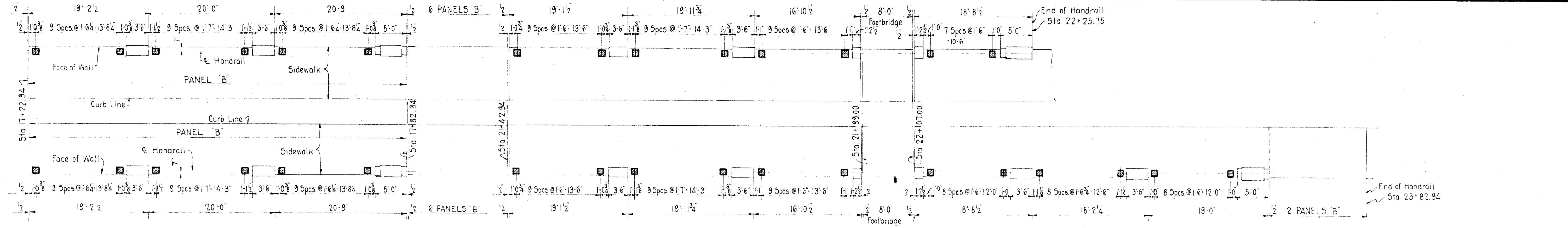
SECTION B-B Scale 3/4"=1'-0"

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
HANDRAIL DETAILS
PIER No. 12 to ABUTMENT No. 18
Scale: 3/8" = 1'-0" Aug. 1, 1936 ISSUE: 1

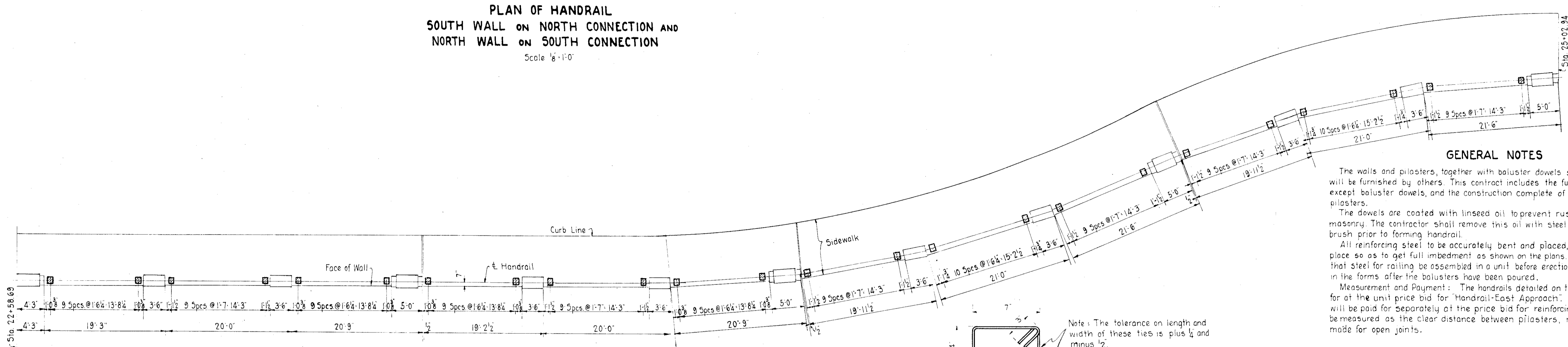
SUBMITTED: *[Signature]* APPROVED: *[Signature]*
ENGINEER OF HIGHWAYS ENGINEER OF HIGHWAYS
APPROVED: *[Signature]* APPROVED: *[Signature]*
DIRECTOR OF PUBLIC WORKS ACTING CITY MANAGER

ISSUE NO.	REVISION	DATE	SIG.	SIG.

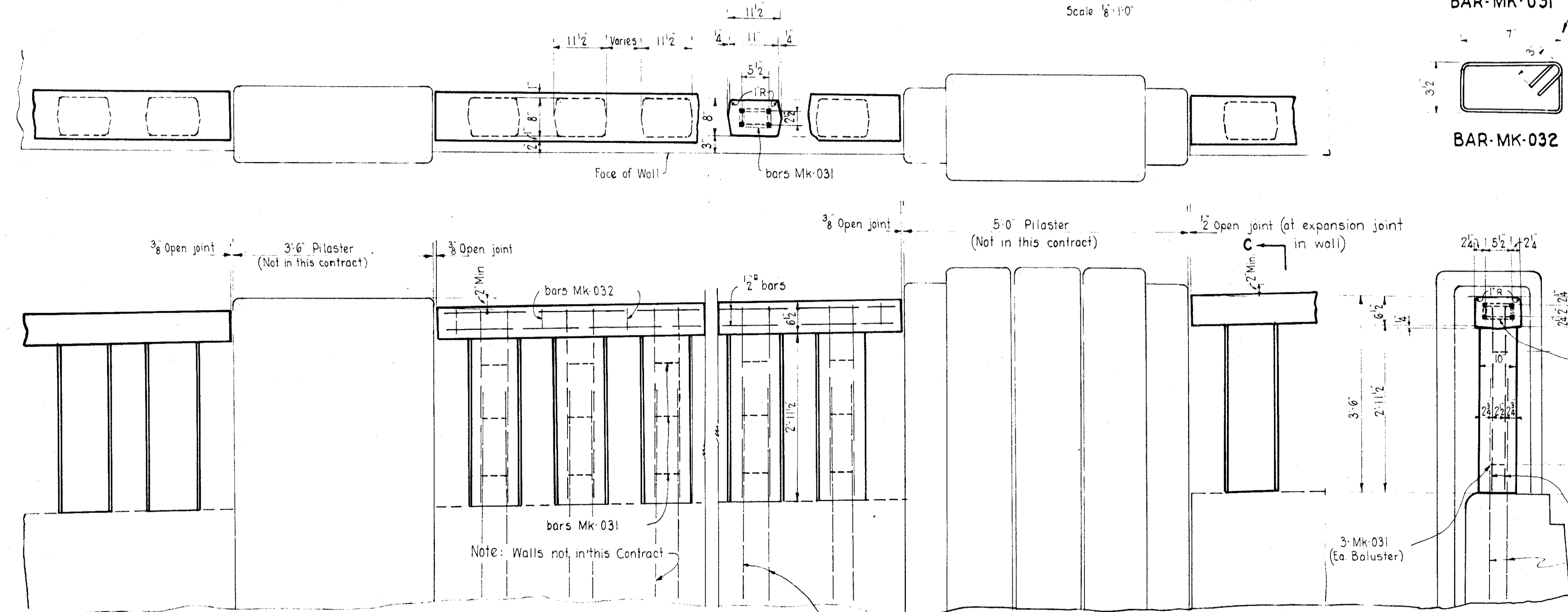
Acc. No. 5123



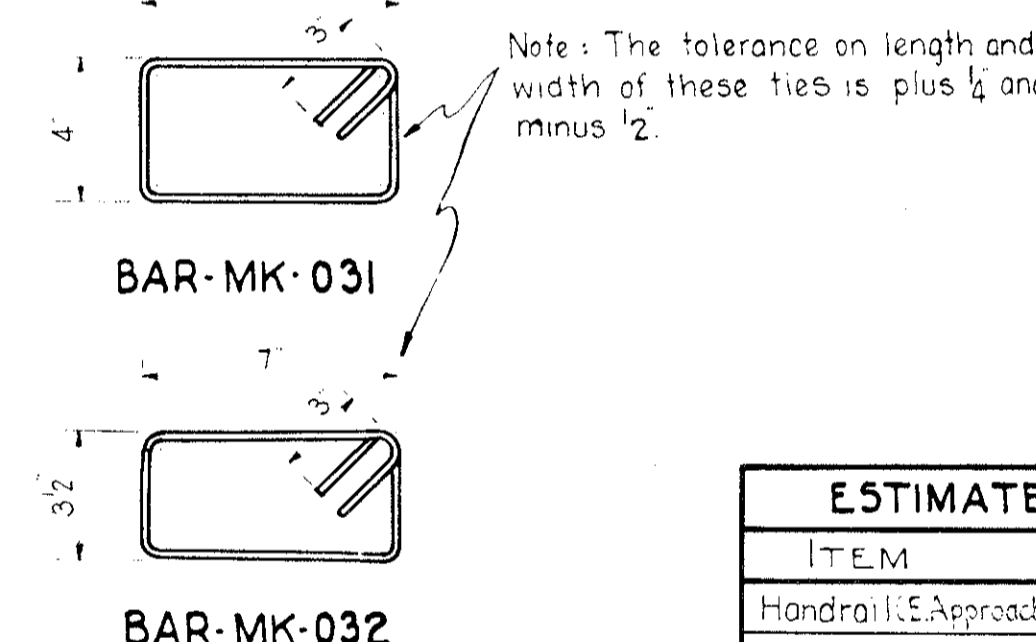
**PLAN OF HANDRAIL
SOUTH WALL ON NORTH CONNECTION AND
NORTH WALL ON SOUTH CONNECTION**
Scale 1/8" = 1'-0"



**PLAN OF HANDRAIL
SOUTH WALL ON SOUTH CONNECTION**
Scale 1/8" = 1'-0"



TYPICAL HANDRAIL DETAILS
Scale 3/4" = 1'-0"



Note: The tolerance on length and width of these ties is plus 1/4\"/>

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Handrail East Approach	Lin Ft.	1115
Reinforcing Steel	Lb.	13,550

BILL OF REINFORCING STEEL						
RAILING			BALUSTER		LOCATION	
No	SIZE	MARK	LENGTH	No	SIZE	MARK
257	3/8"	032	2'-0"	744	3/8"	031
56	1/2"	Str	15'-3"	992	1/2"	Str
32	1/2"	-	16'-0"	-	-	-
8	1/2"	-	15'-1"	-	-	-
4	1/2"	-	12'-0"	-	-	-
339	3/8"	032	2'-0"	961	3/8"	031
72	1/2"	Str	15'-3"	1308	1/2"	Str
40	1/2"	-	16'-0"	-	-	-
8	1/2"	-	15'-1"	-	-	-
8	1/2"	-	13'-6"	-	-	-
4	1/2"	-	14'-2"	-	-	-
130	3/8"	032	2'-0"	366	3/8"	031
16	1/2"	Str	15'-3"	488	1/2"	Str
24	1/2"	-	16'-0"	-	-	-
8	1/2"	-	17'-0"	-	-	-

SECTION C-C
Scale 3/4" = 1'-0"

CITY OF CINCINNATI
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
**COLUMBIA AVENUE VIADUCT
OVER EGGLESTON AVENUE
HANDRAIL DETAILS
ABUTMENT No. 18 TO EAST END**
SCALE: 1/8" & 3/4" = 1'-0" AUG. 1, 1936
SUBMITTED: [Signature] SPECIAL ENGINEER
APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS
APPROVED: [Signature] ENGINEER HIGHWAYS
APPROVED: [Signature] ACTING CITY MANAGER

Issue No.	REVISION	DATE	Sig	Sig

Acc. No. 5124