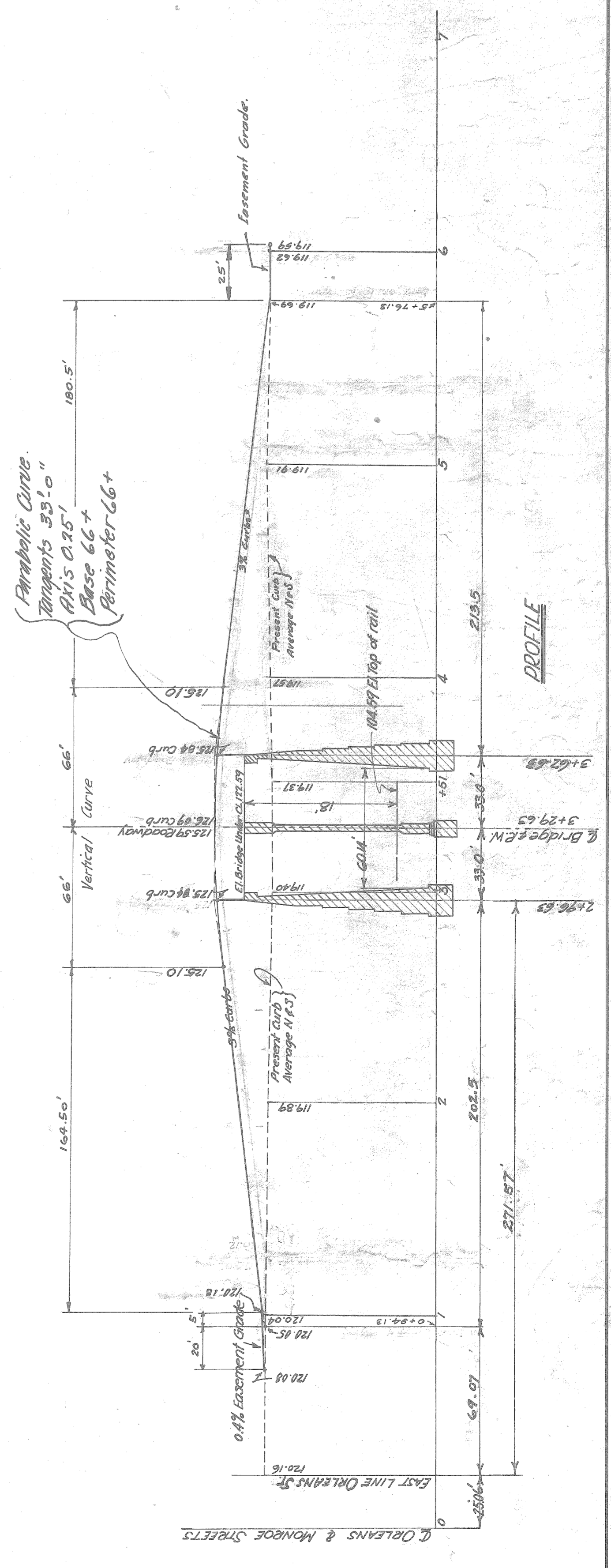


Details of curb at driveways showing 4' radius and data.



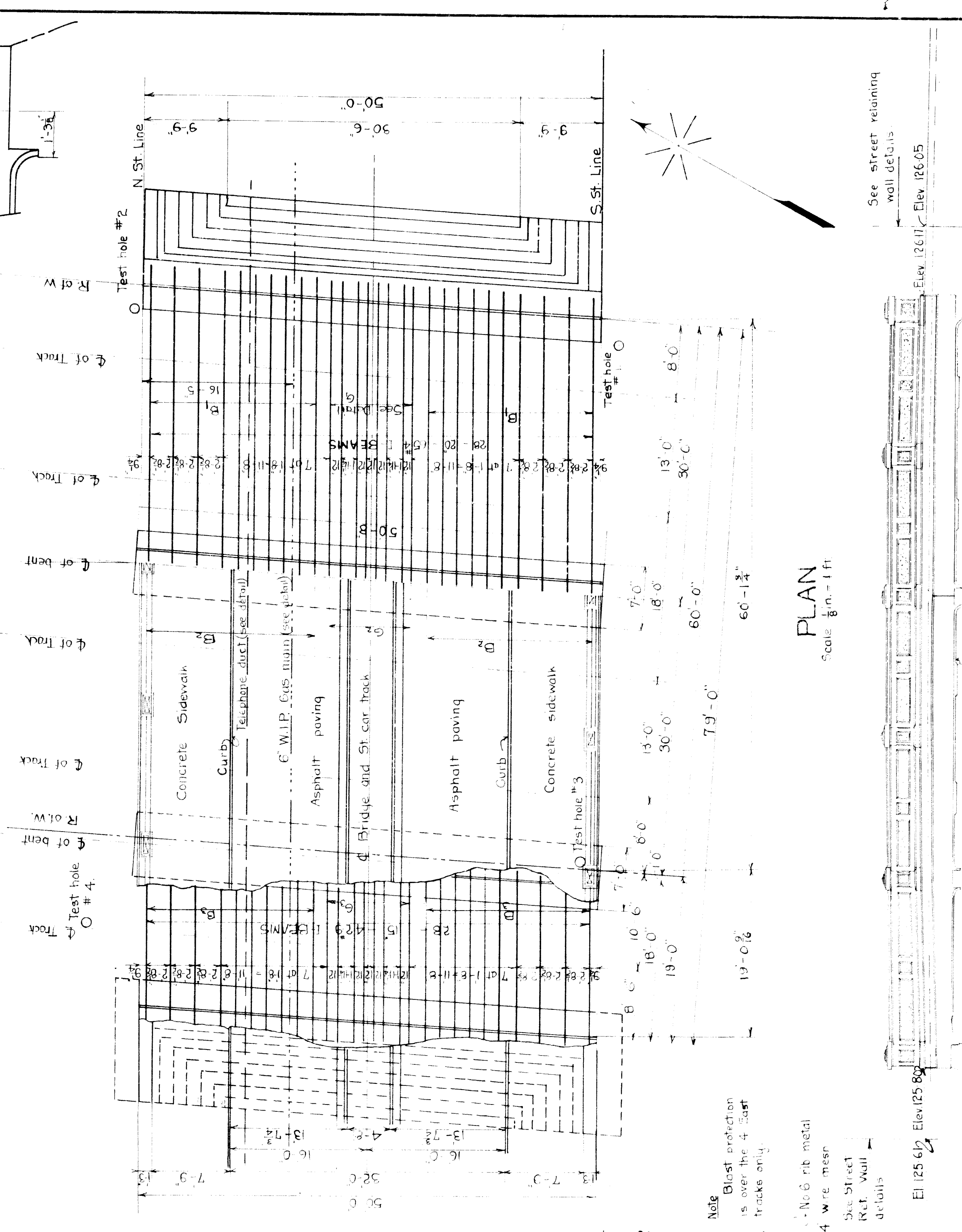
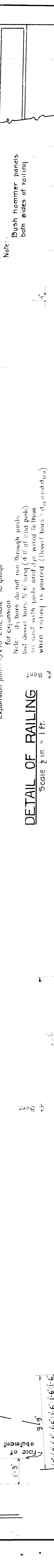
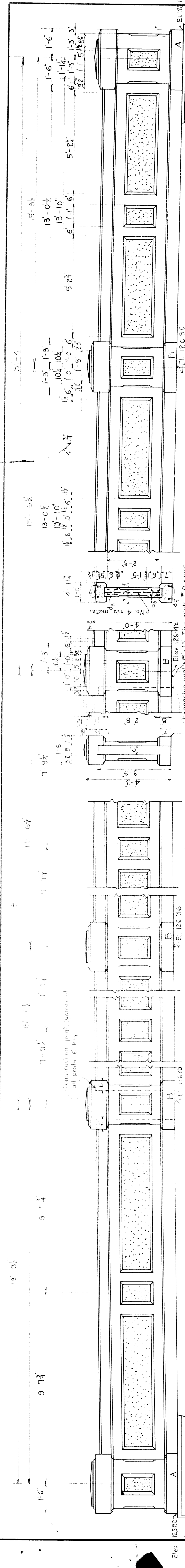
Note: Driveways into Turner & Butler Coal Co. property as shown on street plan were omitted at time of repaving of street in Nov. 1925.

Approved July 26, 1924.
 City Engineer
 Chief Engineer G.T. Ry, System Western Lines
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 DEPARTMENT OF GRADE SEPARATION & BRIDGES
 DEQUINDRE ST. GRADE SEPARATION
MONROE ST.

Made by AW
 Checked by R.S.
 Scales
 Plan 1"=40'
 Ver. 1"=10'

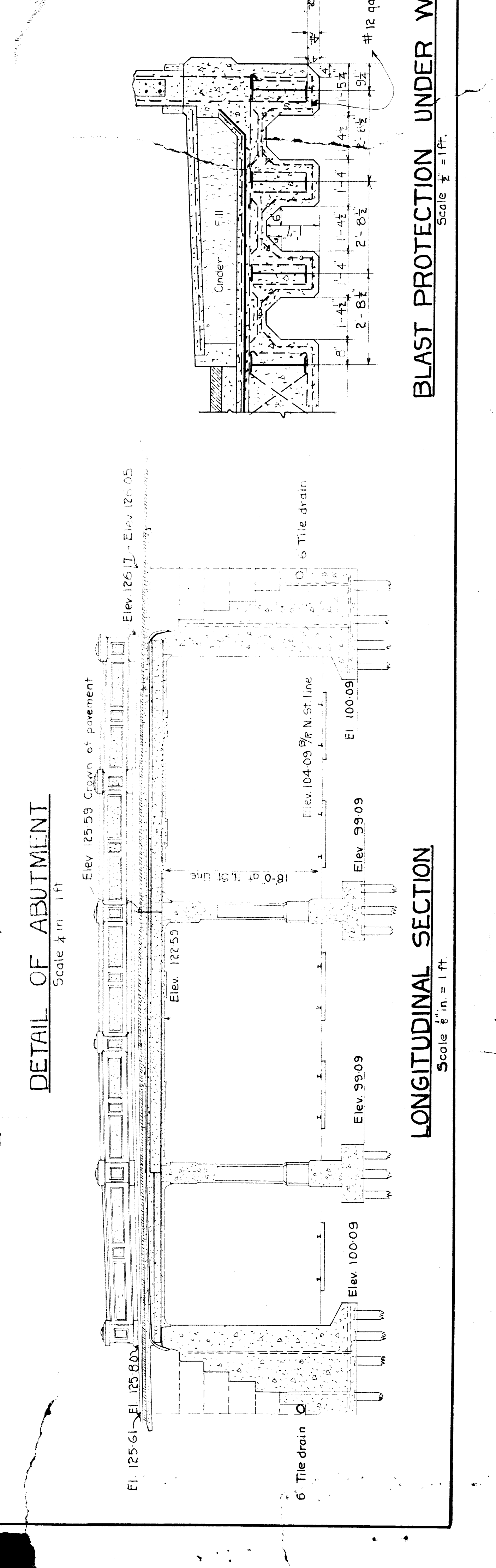
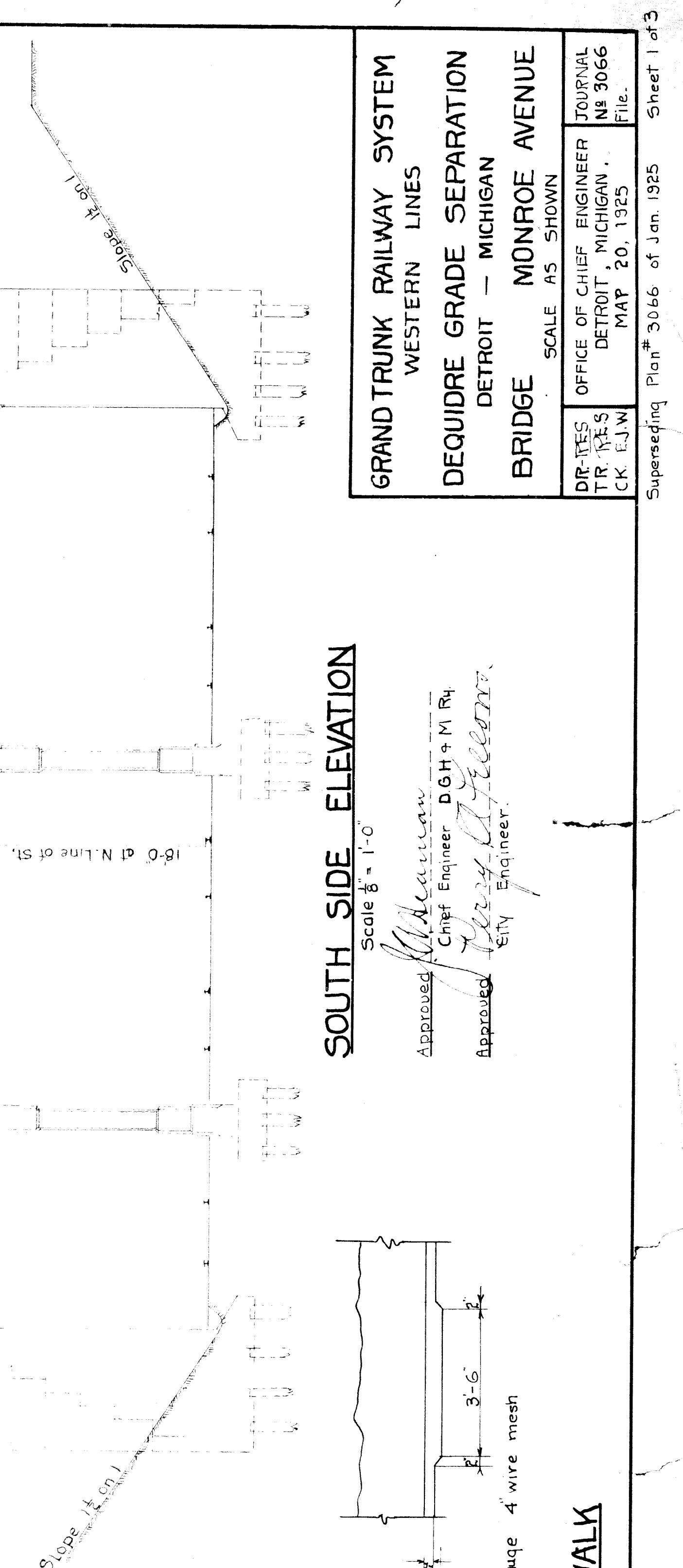
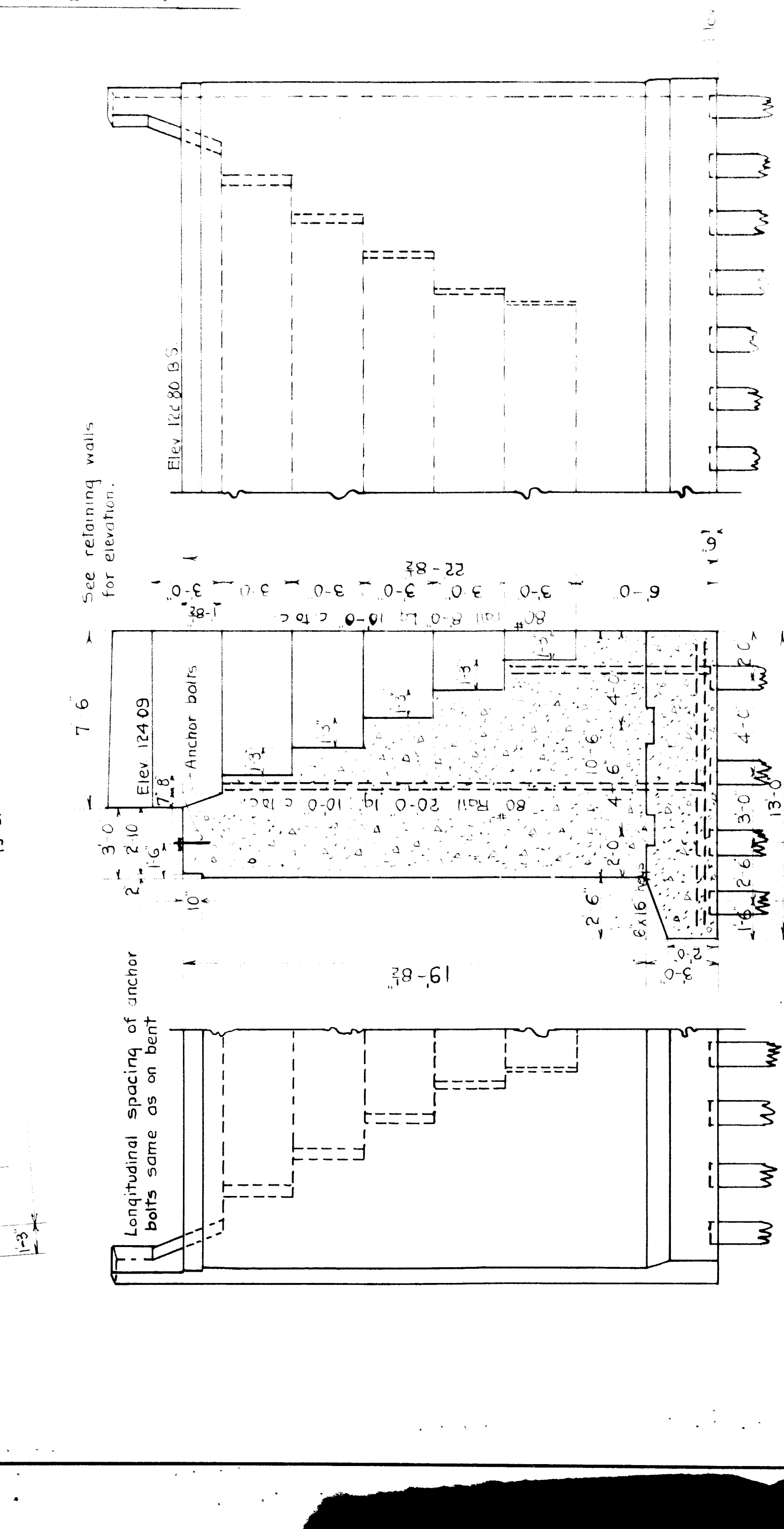
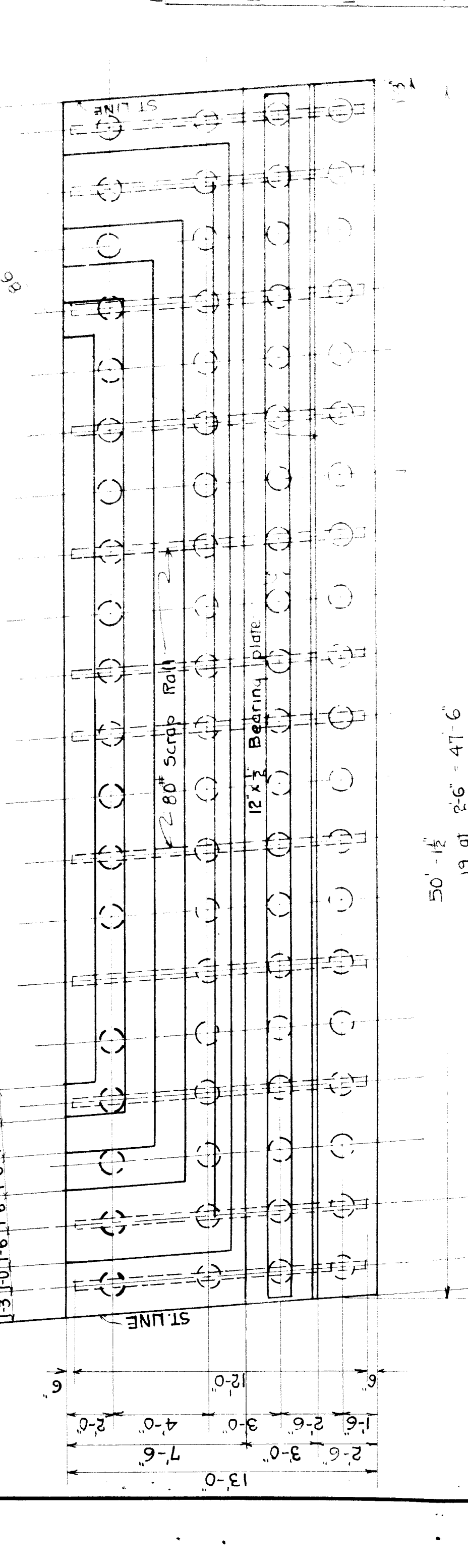
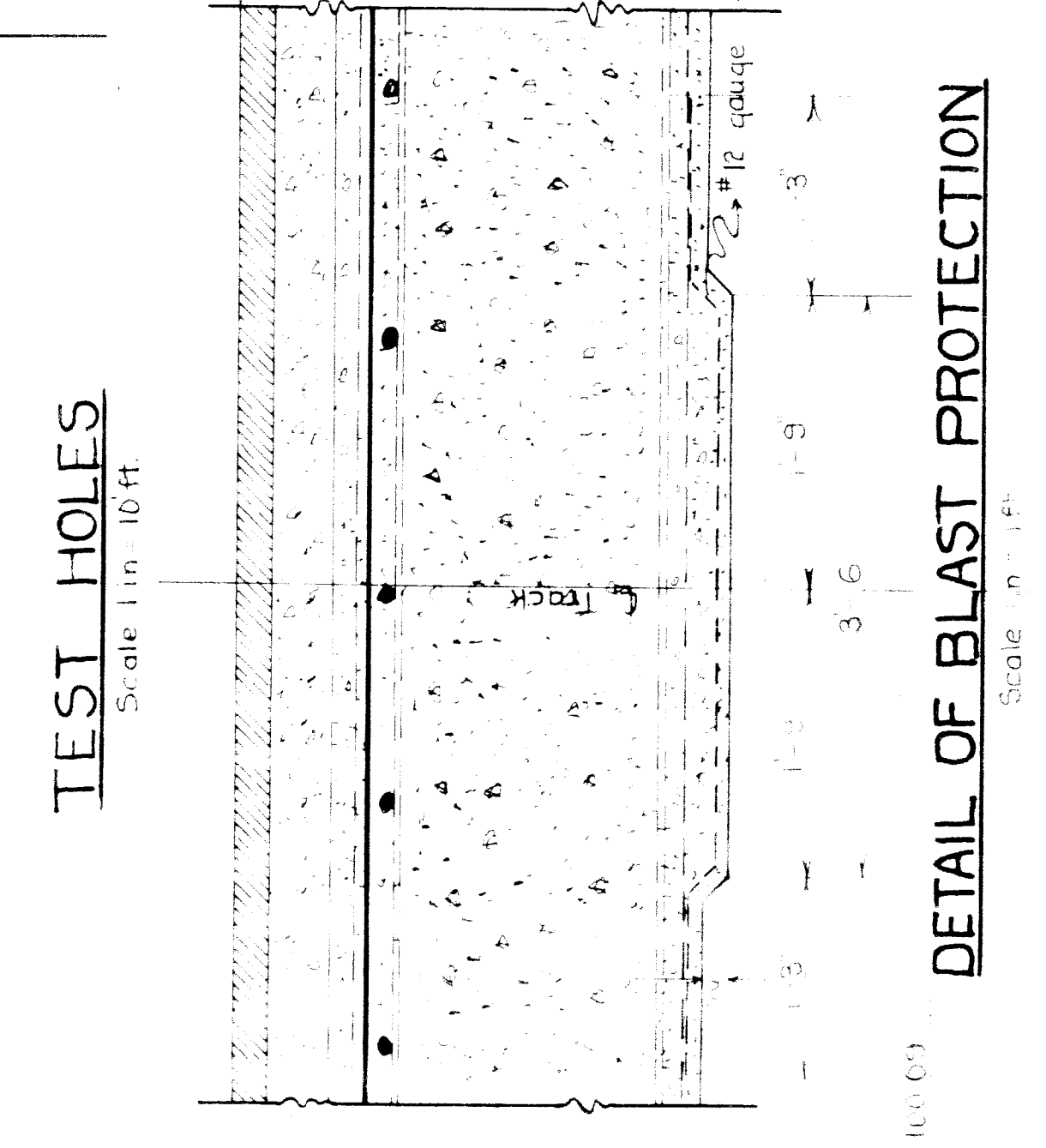
Revised 2-17-25.

July 1923



TEST HOLES
Scale 1 in. = 10 ft

Test Hole	NO. 1	NO. 2	NO. 3	NO. 4
120	Medium hard red clay	Hard red clay	Soft red clay	Water
110	Soft blue clay	Hard blue clay	Medium soft blue clay	Medium soft blue clay
100	Hard blue clay	Hard blue clay	Medium soft blue clay	Medium soft blue clay
90	Hard blue clay	Hard blue clay	Medium soft blue clay	Medium soft blue clay
80	Hard blue clay	Hard blue clay	Medium soft blue clay	Medium soft blue clay
70	Hard blue clay	Hard blue clay	Medium soft blue clay	Medium soft blue clay



GRAND TRUNK RAILWAY SYSTEM
WESTERN LINES
DEQUIDRE GRADE SEPARATION
DETROIT - MICHIGAN
BRIDGE - MONROE AVENUE

SCALE AS SHOWN

OFFICE OF CHIEF ENGINEER
DETROIT, MICHIGAN
MAP 20, 1925

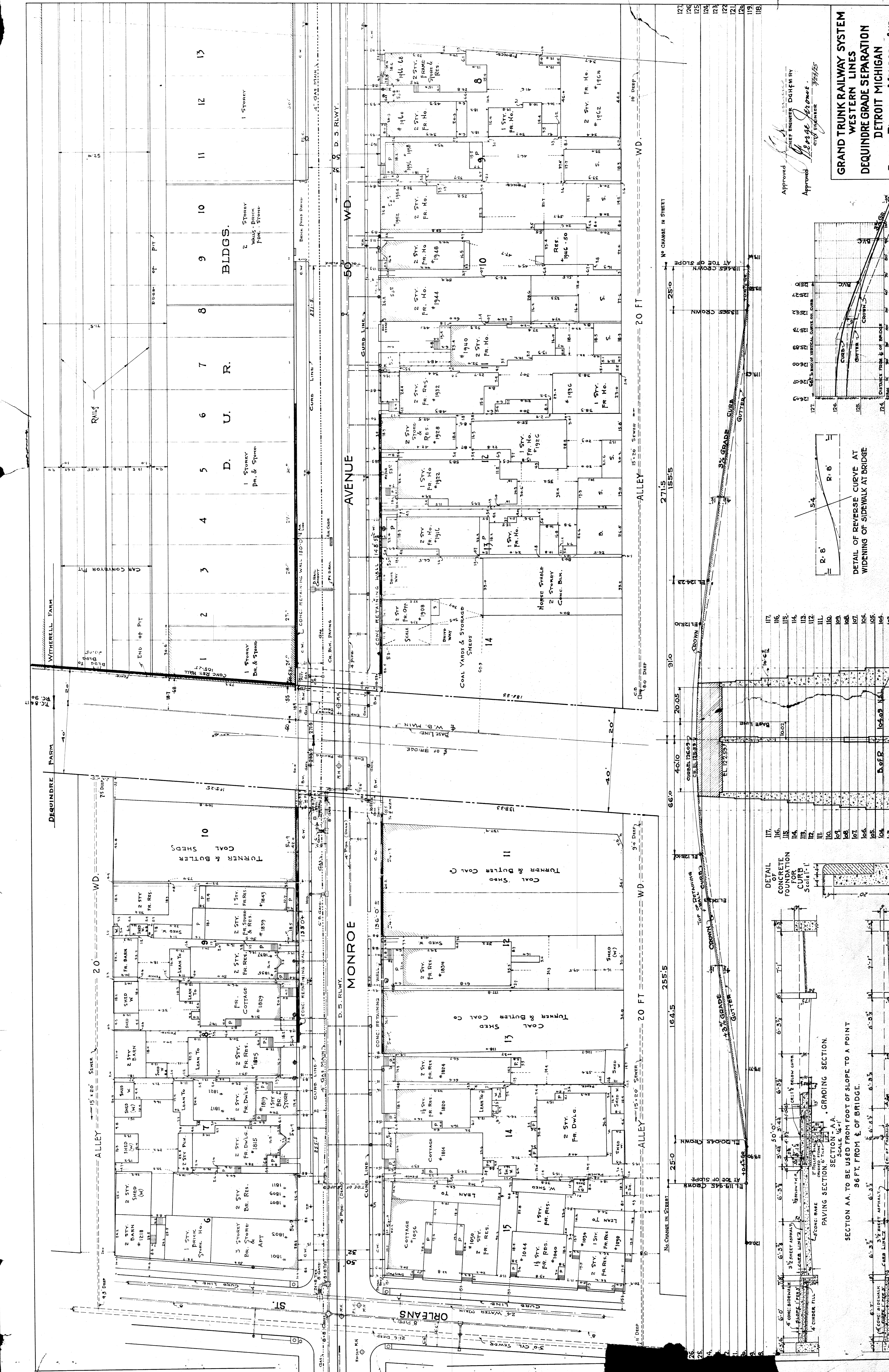
JOURNAL
NR 3066
FILE

Approved: *[Signature]*
Chief Engineer DGH + M Ry

Approved: *[Signature]*
City Engineer

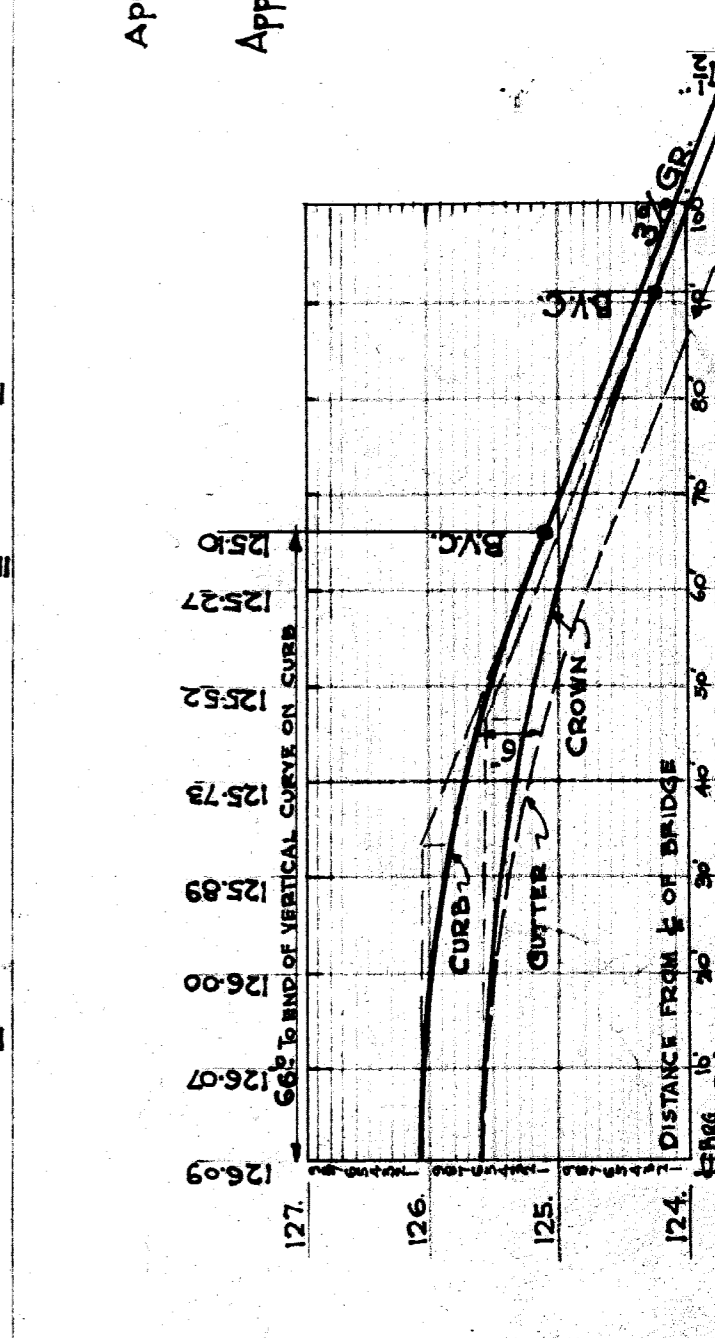
Superseding Plan # 3046 of Jan. 1925

Sheet 1 of 3

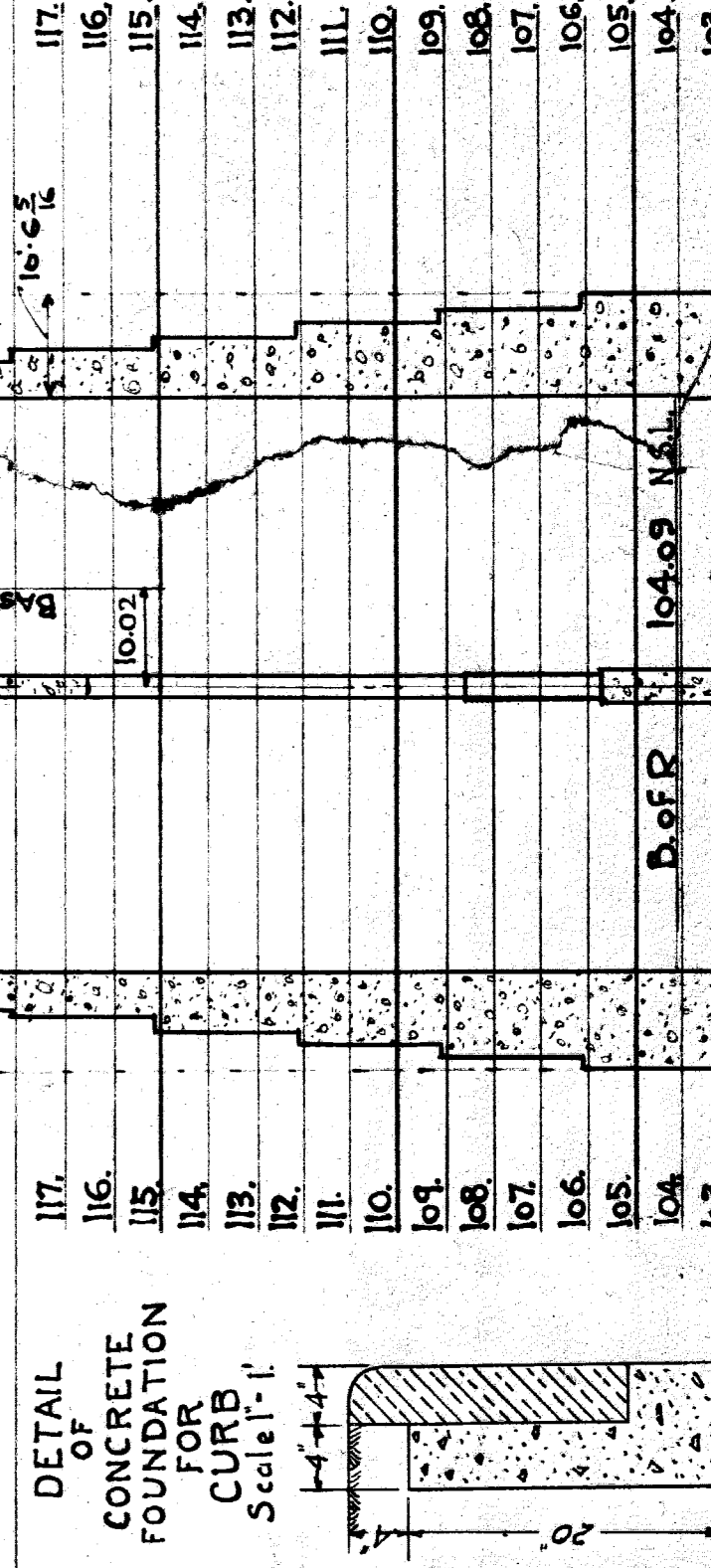


Approved: *[Signature]*
 Chief Engineer: D. H. RY
 Approved: *[Signature]*
 City Engineer: G. J. JONES

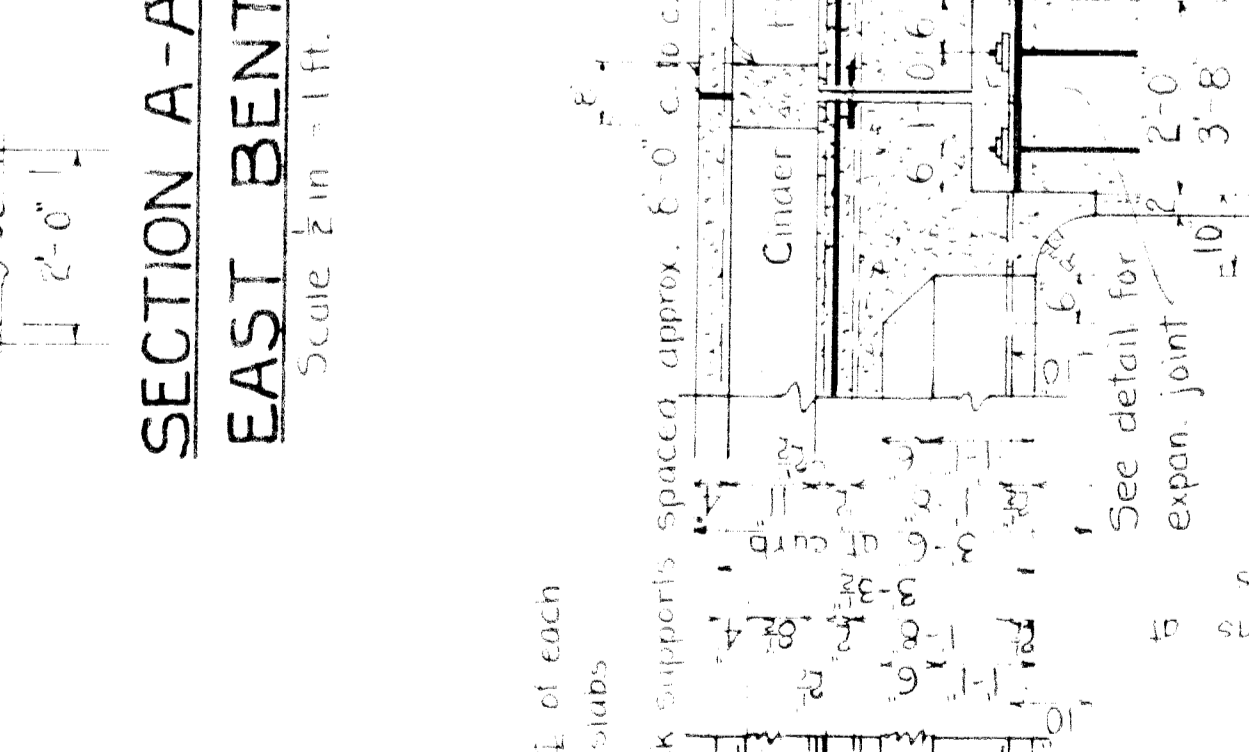
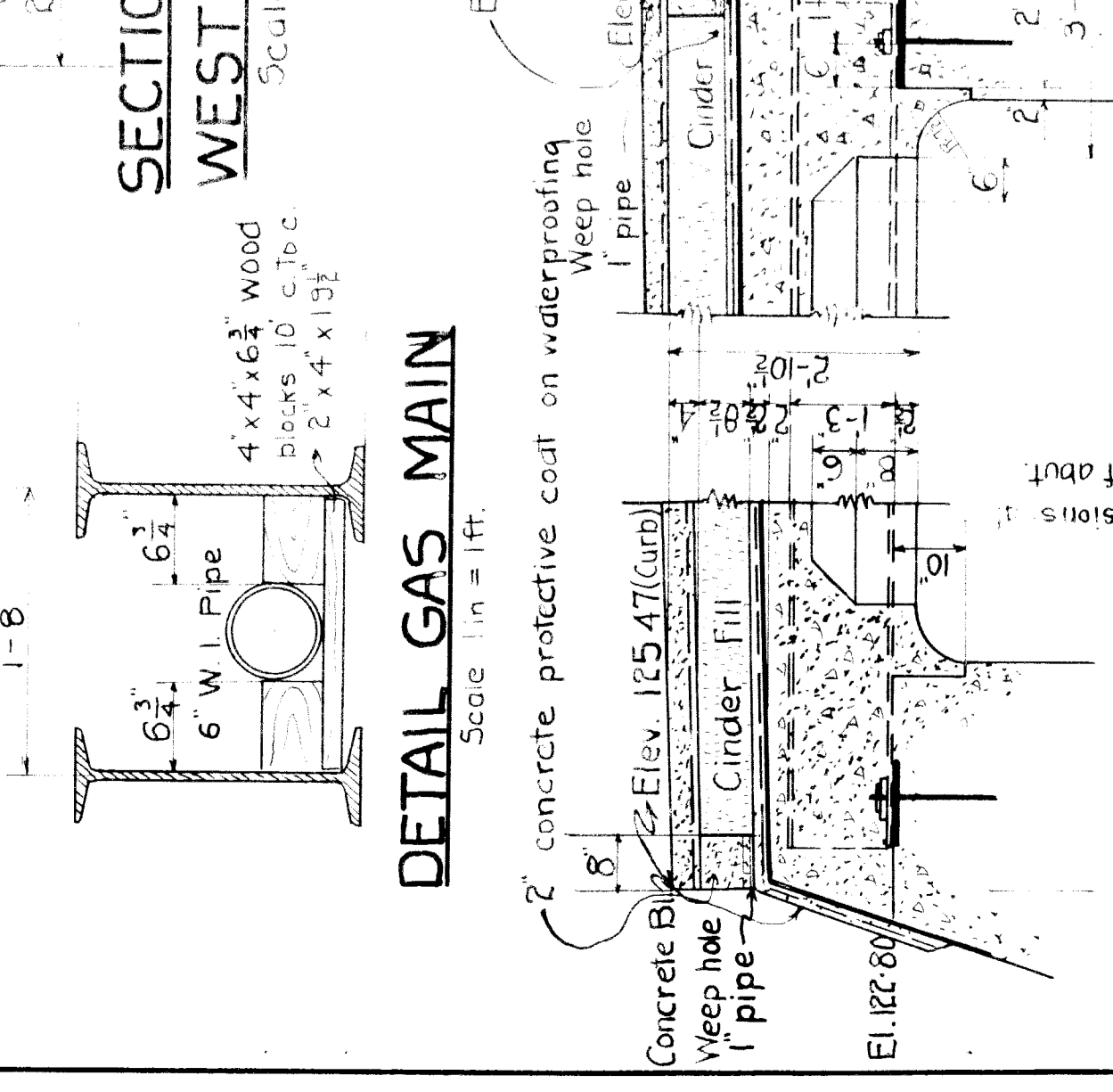
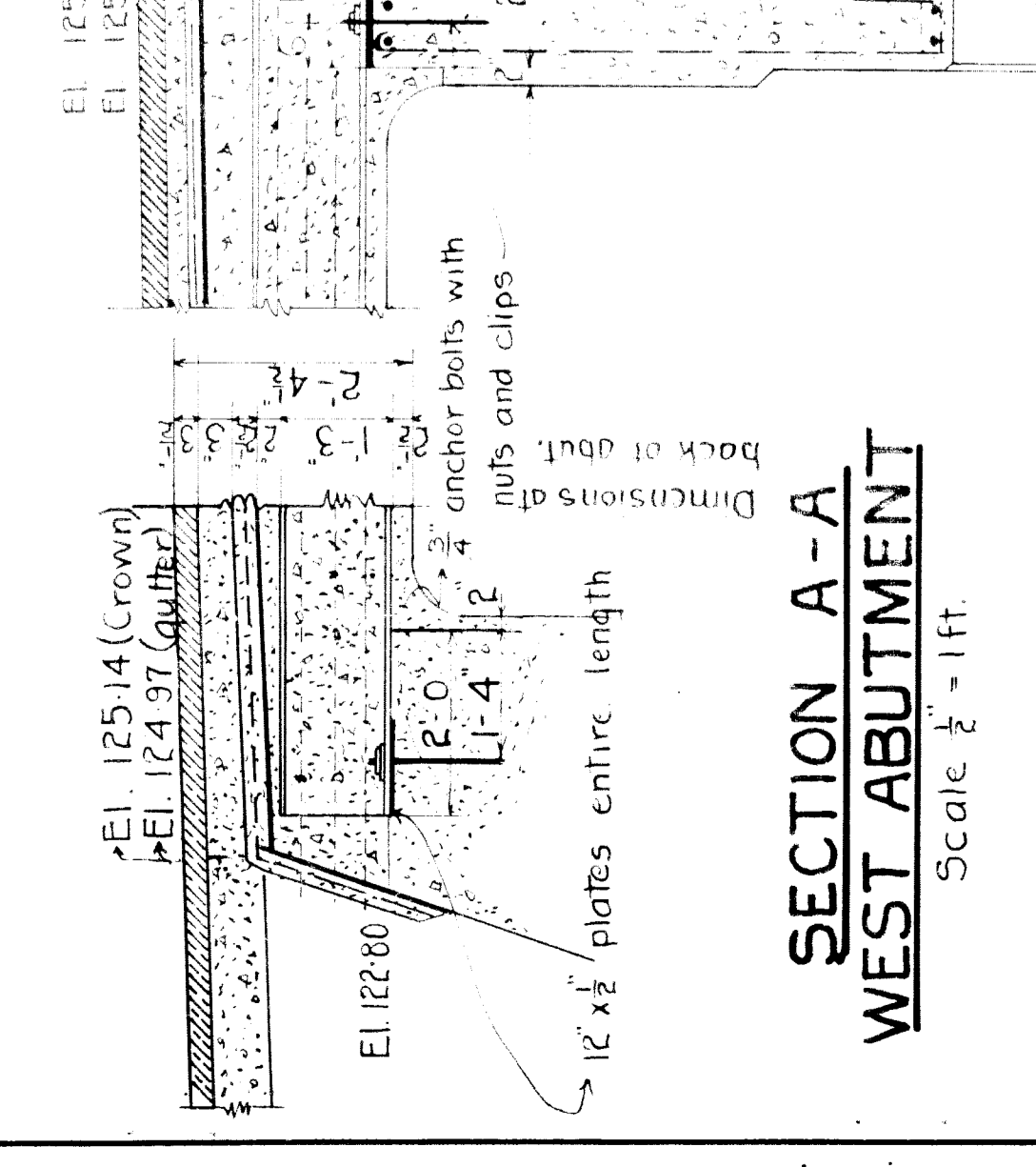
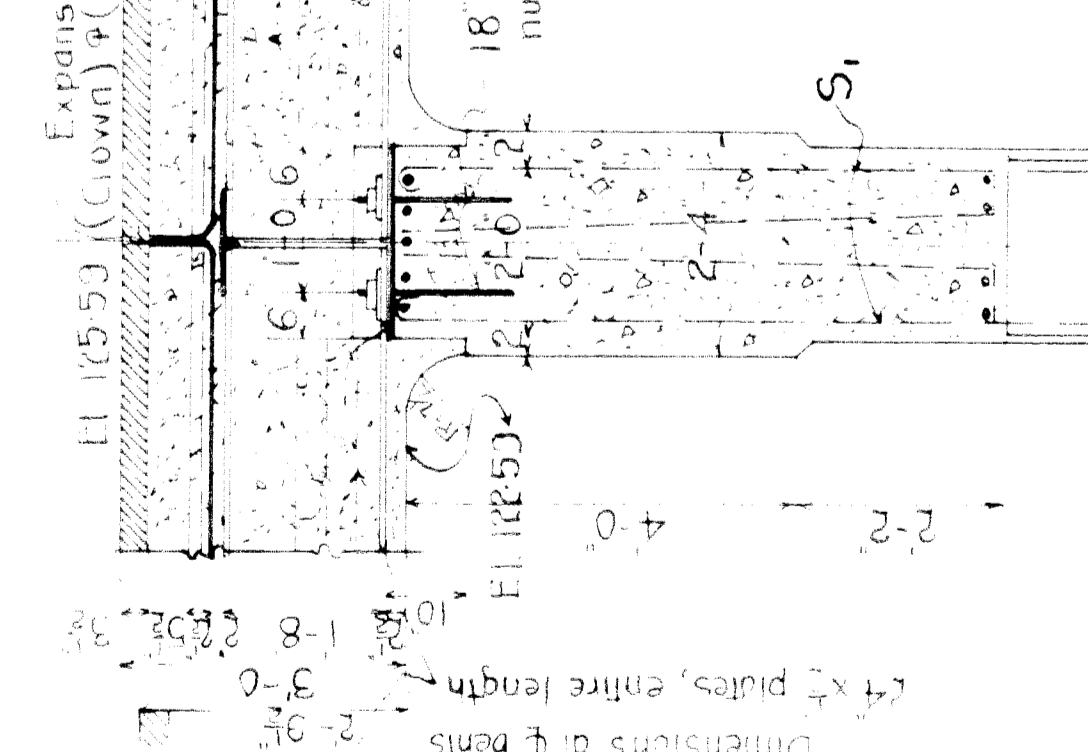
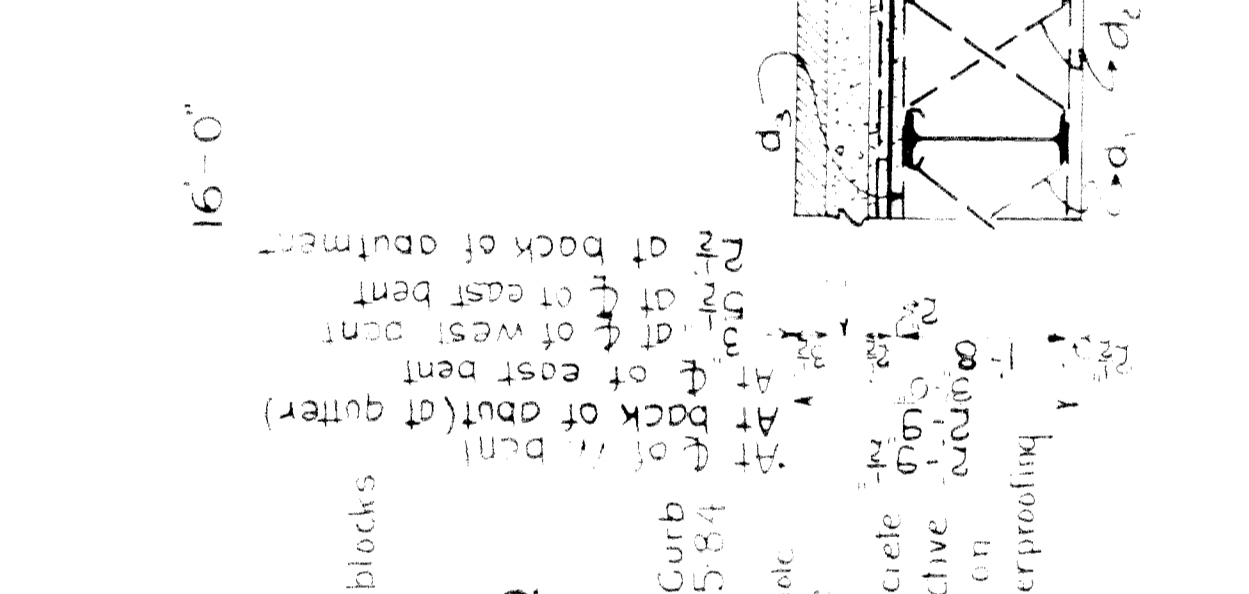
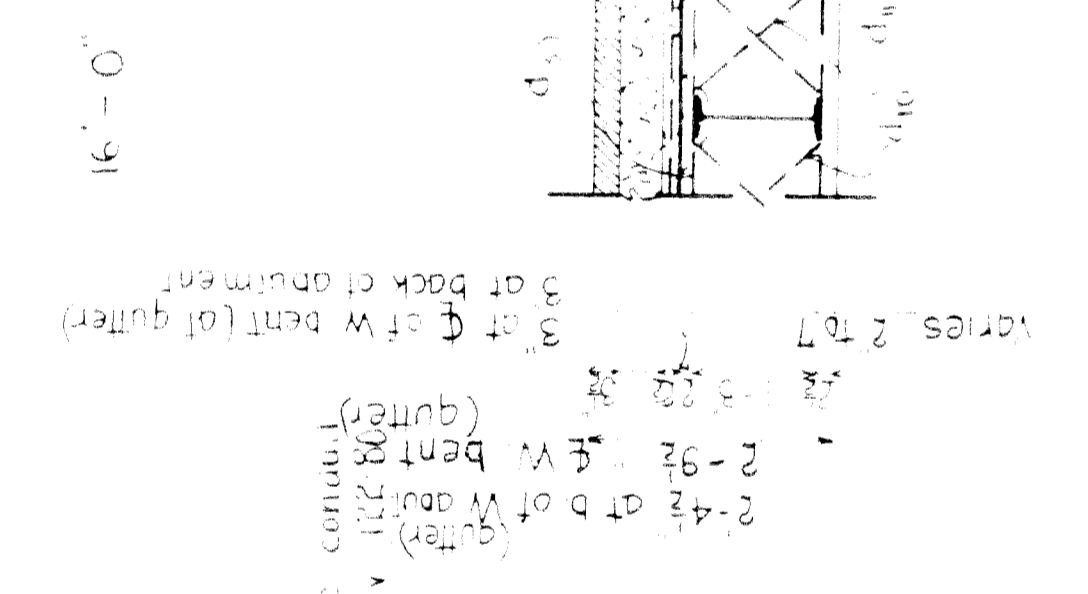
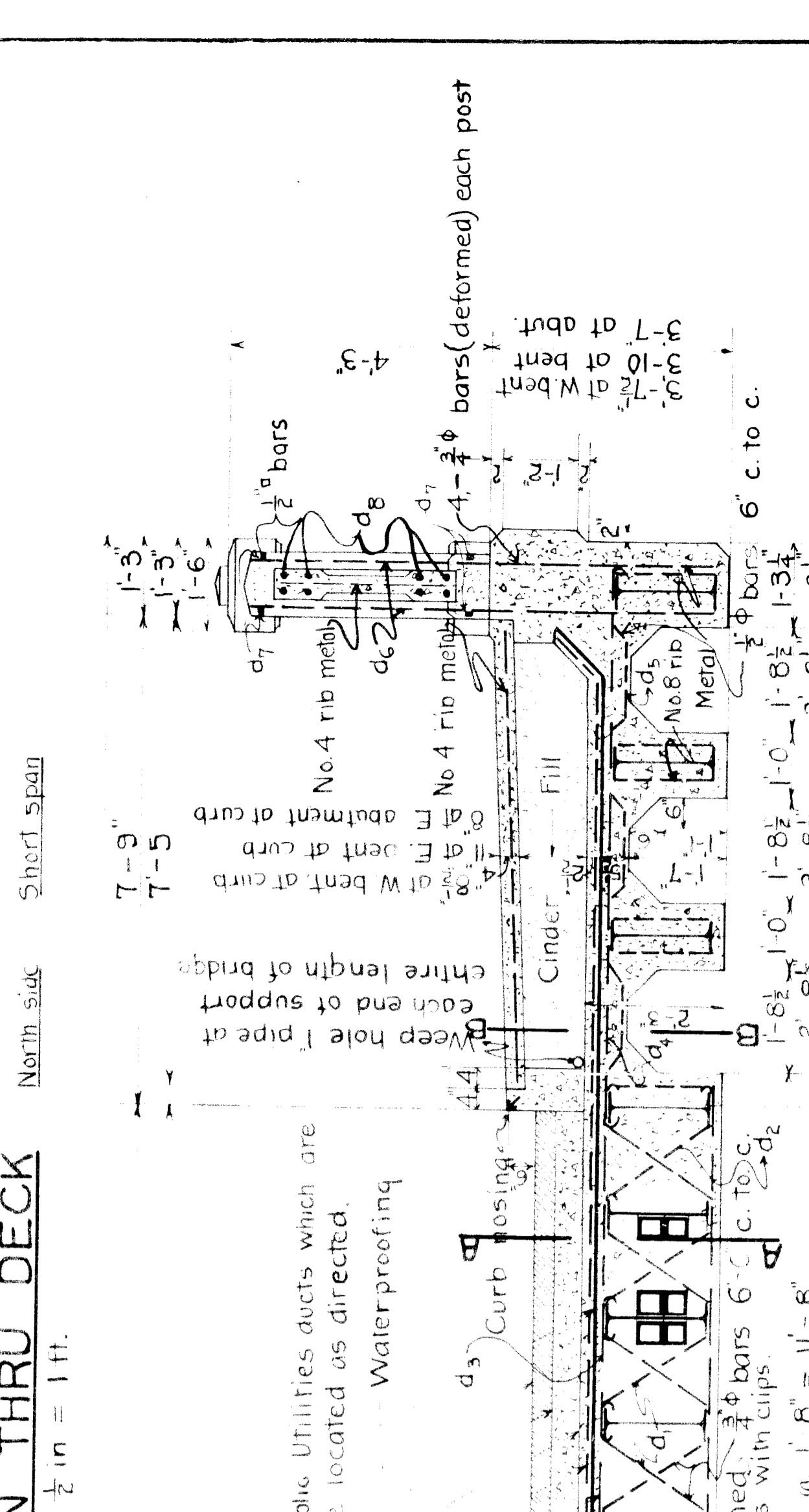
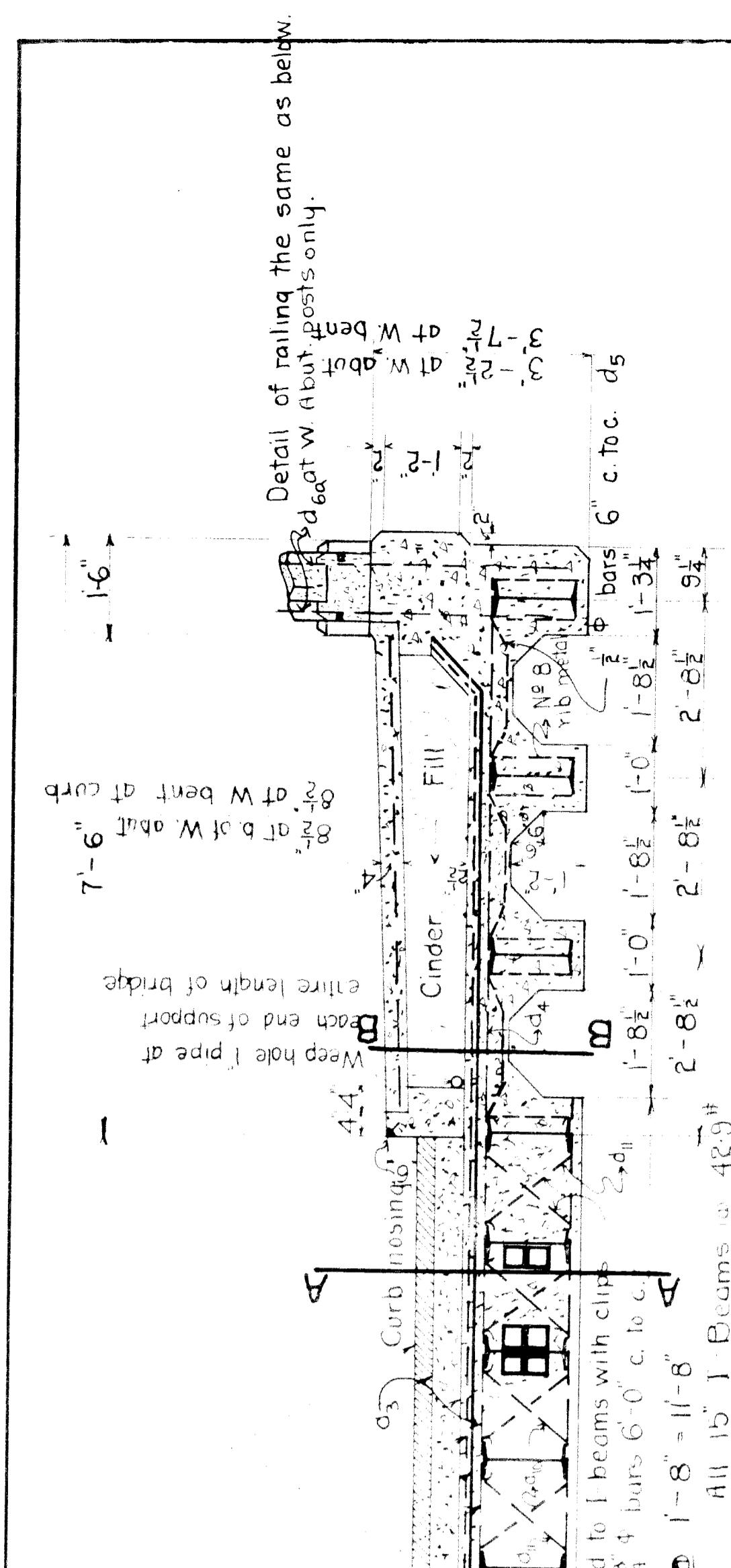
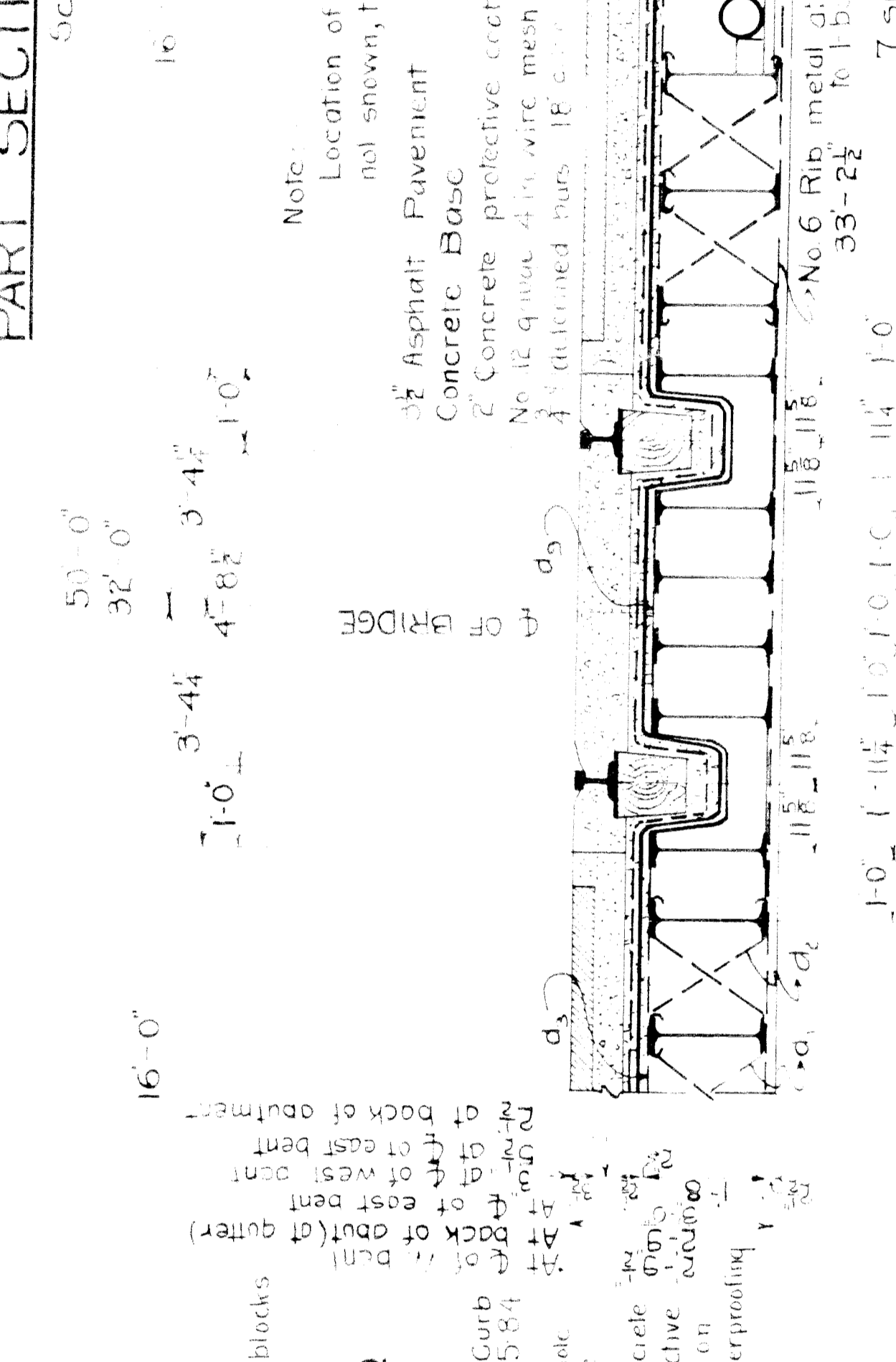
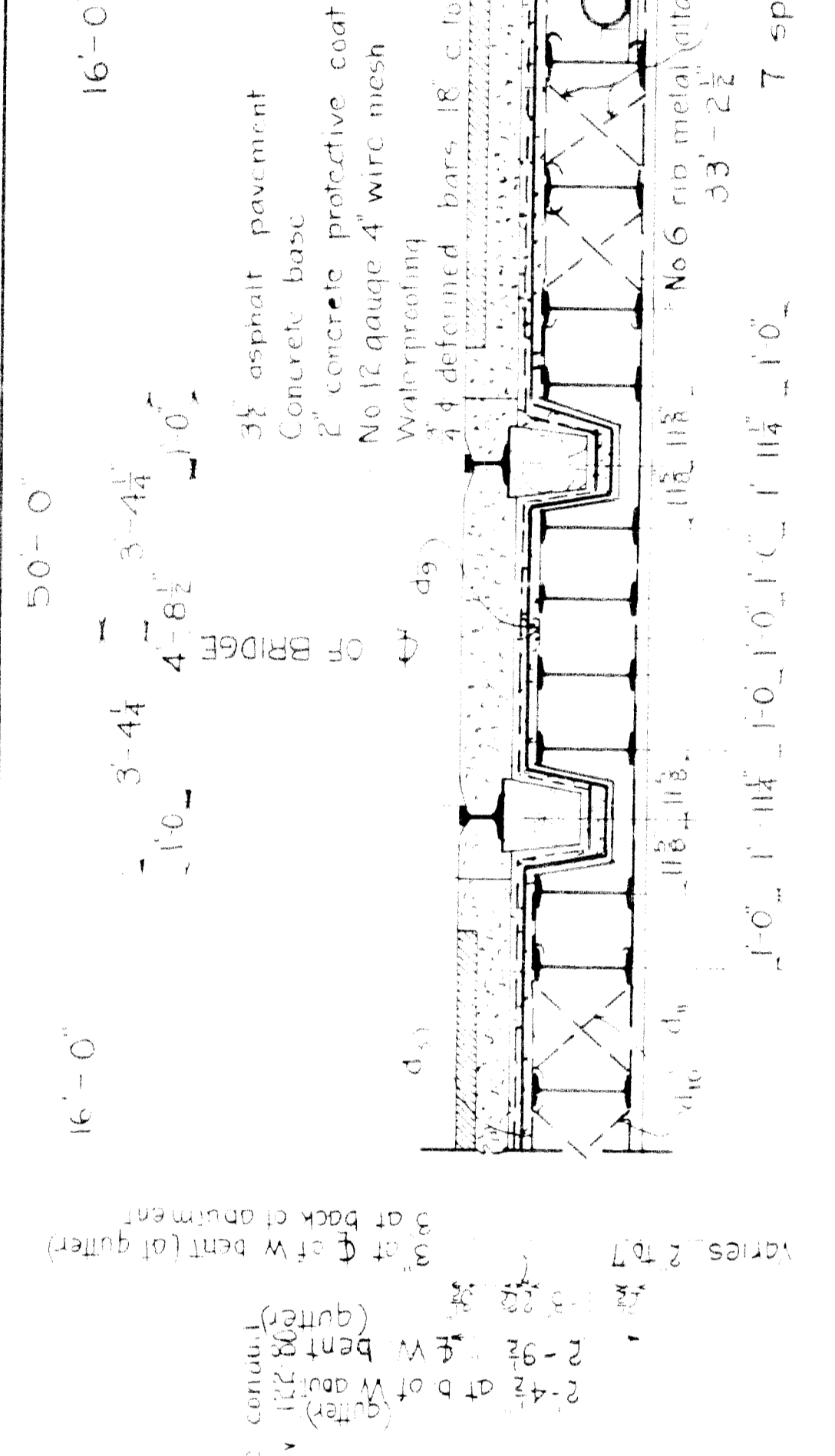
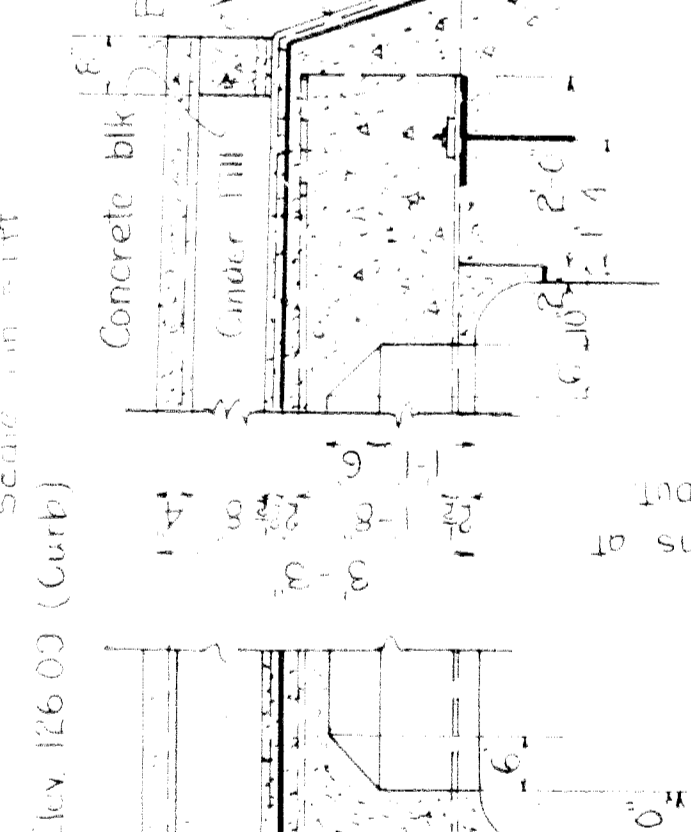
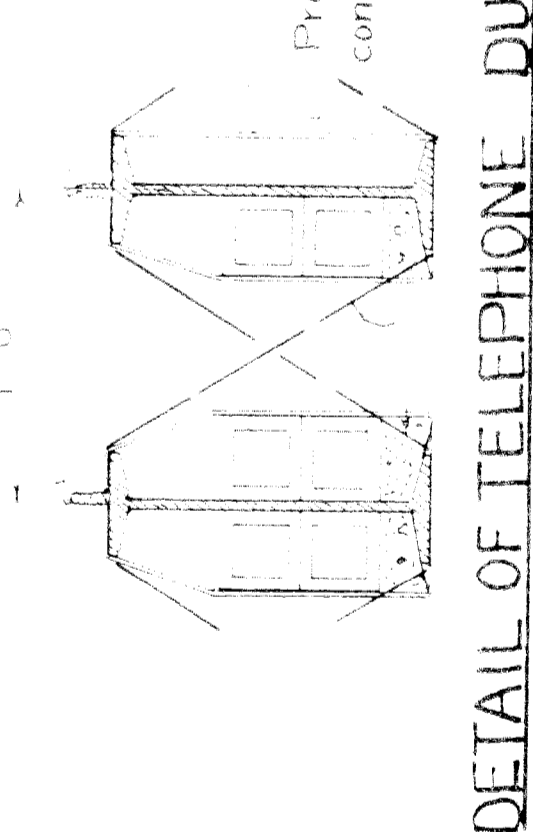
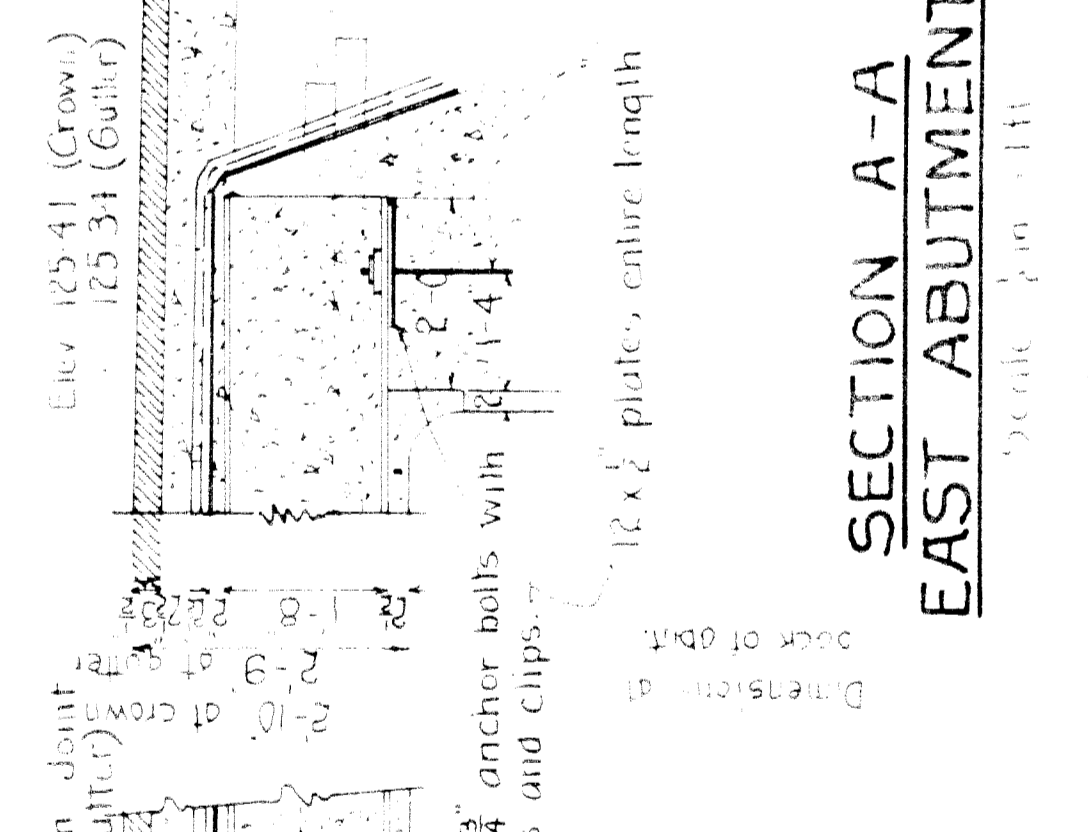
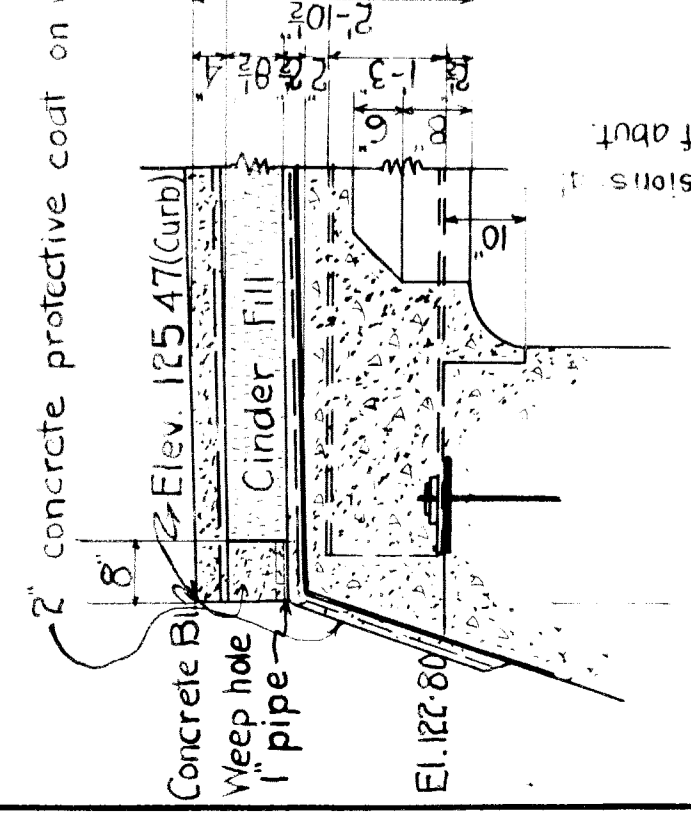
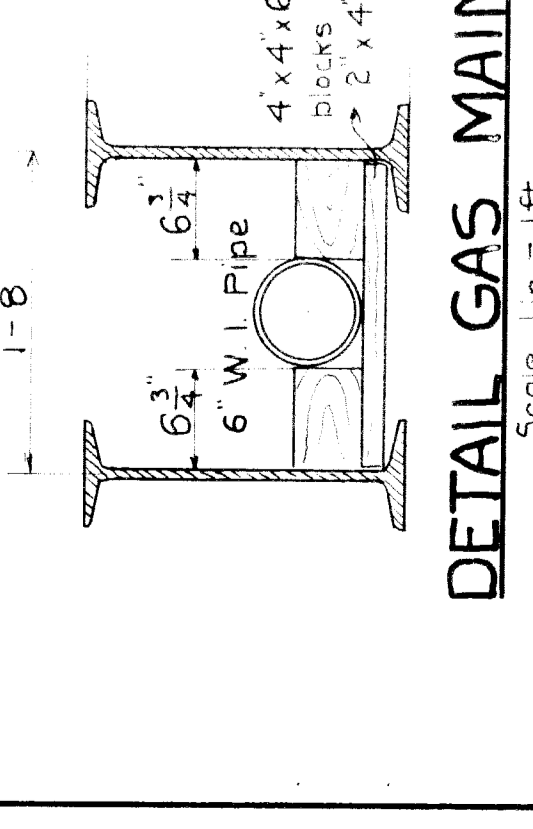
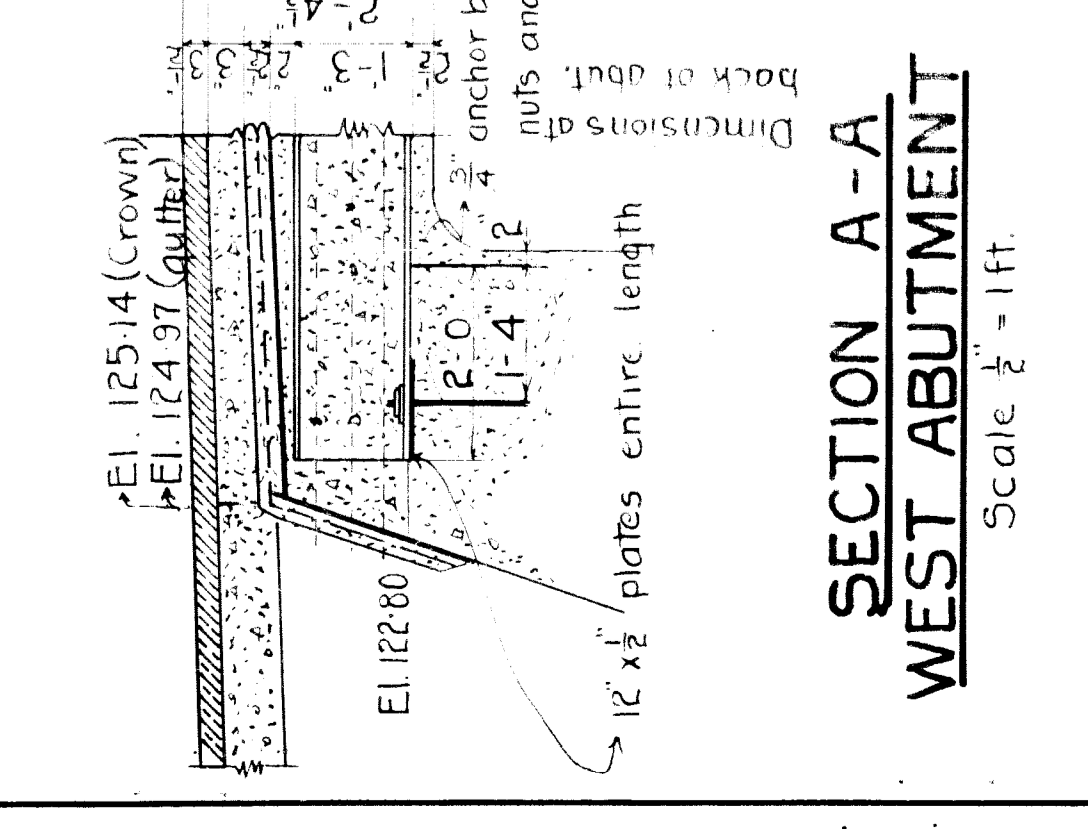
GRAND TRUNK RAILWAY SYSTEM
WESTERN LINES
DEQUINDRE GRADE SEPARATION
DETROIT MICHIGAN
GENERAL PLAN - MONROE AVE
 SCALE: 1" = 50' P.L. 100'



DETAIL OF REVERSE CURVE AT WIDENING OF SIDEWALK AT BRIDGE
 Scale: 1" = 50' P.L. 100'



SECTION AA TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION BB TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION CC TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION DD TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION EE TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION FF TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION GG TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION HH TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION II TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION JJ TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION KK TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION LL TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION MM TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION NN TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION OO TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION PP TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION QQ TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION RR TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION SS TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION TT TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION UU TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION VV TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION WW TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION XX TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION YY TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.
 SECTION ZZ TO BE USED FROM FOOT OF SLOPE TO A POINT 96 FT. FROM E. OF BRIDGE.



SECTION A-A AT EAST BENT
10" - 8" EXPANSION JOINT
Scale: 1/2" = 1 ft.

SECTION B-B WEST BENT
Scale: 1/2" in = 1 ft.

SECTION B-B EAST BENT
Scale: 1/2" in = 1 ft.

SECTION B-B WEST BENT
Scale: 1/2" in = 1 ft.

SECTION B-B EAST BENT
Scale: 1/2" in = 1 ft.

ELEVATION OF BENT SHOWING REINFORCING
Scale: 1/2" = 1 ft.

SECTION COLUMN A
Scale: 1/2" in = 1 ft.

SECTION COLUMN B
Scale: 1/2" in = 1 ft.

SECTION A-A AT EAST BENT
10" - 8" EXPANSION JOINT
Scale: 1/2" = 1 ft.

ELEVATION OF BENT SHOWING REINFORCING
Scale: 1/2" = 1 ft.

PLAN OF BENT SHOWING REINFORCING
Scale: 1/2" = 1 ft.

Approved: *[Signature]* Chief Engineer, D.G.H. & M. Ry.
Approved: *[Signature]* City Engineer.

GRAND TRUNK RAILWAY SYSTEM
WESTERN LINES
DEQUINDRE GRADE SEPARATION
DETROIT, MICHIGAN
BRIDGE - MONROE ST.

SCALE - AS SHOWN
OFFICE OF CHIEF ENGINEER
DETROIT, MICHIGAN
MAY 18, 1925
JOURNAL NO. W 3067
FILE NO. 116

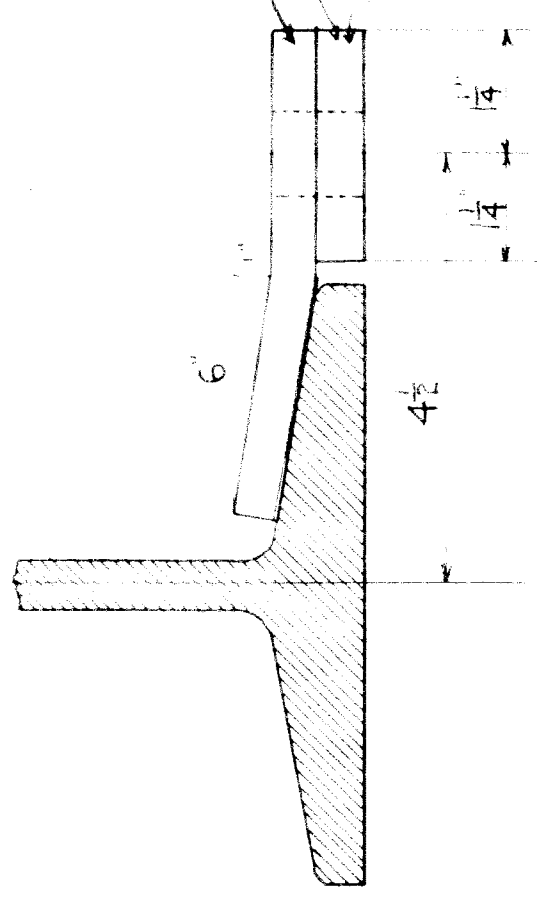
Supervising plan # W 3067 of Feb 9, 1925. - Sheet 2 of 3

LOCATION	NO.	MARK	SIZE	LENGTH	BENDING DIAGRAM
Deck E. and C. span	120	d ₁	3/4 φ	7'-0"	
Deck E. and C. span	72	d ₂	3/4 φ	4'-0"	
Deck	114	d ₃	3/4 φ	13'-0"	
Deck (Sidewalk)	114	d ₄	3/4 φ	9'-5"	
Deck (Sidewalk)	340	d ₅	1/2 φ	9'-10"	
Deck (Posts) E. and C. span	40	d ₆	3/4 φ	7'-0"	Straight
Deck (Posts) West span	8	d _{6a}	3/4 φ	6'-9"	Straight
Top of bottom East span	16	d ₇	1/2 φ	13'-6 1/2"	Straight
Top of bottom Centre span	16	d _{7a}	1/2 φ	13'-6 1/2"	Straight
Top of bottom West span	8	d _{7b}	1/2 φ	17'-2 1/2"	Straight
Railing (Web) East span	32	d ₈	1/2 φ	13'-6 1/2"	Straight
Railing (Web) Centre span	32	d _{8a}	1/2 φ	13'-6 1/2"	Straight
Railing (Web) West span	16	d _{8b}	1/2 φ	17'-2 1/2"	Straight
Deck	57	d ₉	3/4 φ	2'-3"	
Deck West span	40	d ₁₀	3/4 φ	5'-4 1/2"	
Deck West span	24	d ₁₁	3/4 φ	3'-10"	
Bent (Top)	20	b ₁	1 φ	30'-0"	
Bent (Top) above arches	16	b ₂	7/8 φ	28'-0"	
Bent over arches	16	b ₃	7/8 φ	14'-0"	
Bent under arches	16	b ₄	3/4 φ	28'-0"	
Bent (Bottom)	16	b ₅	1 φ	30'-0"	
Bent (Bottom)	152	b ₆	7/8 φ	8'-6"	
Bent (Column)	164	c ₁	7/8 φ	23'-0"	Straight
Bent (Column ties)	66	c ₂	1/4 φ	8'-6"	
Bent (Column ties)	44	c ₃	1/4 φ	23'-0"	
Bent (Upper stirrups)	72	s ₁	1/2 φ	26'-0"	
Bent (Lower stirrups)	32	s ₂	1/2 φ	25'-0"	
Railing (Posts) Top and bottom	32	d ₁₂	1/2 φ	5'-6"	Straight
Railing (End Posts) Top and bottom	16	d _{12a}	1/2 φ	4'-0"	Straight

BILL OF FLOOR BEAMS					
LOCATION	NO.	MARK	SIZE	REMARKS	
Deck East span	20	B ₁	20 @ 65"	32'-2"	No drilling
Deck (Railway) East span	8	G ₁	20 @ 65"	32'-2"	Drilled as in detail, shipped riveted complete.
Deck Centre span	20	B ₂	20 @ 65"	31'-0"	No drilling
Deck (Railway) Centre span	8	G ₂	20 @ 65"	31'-0"	Drilled as in detail, shipped riveted complete.
Deck West span	20	B ₃	15 @ 45"	20'-2"	No drilling
Deck (Railway) West span	8	G ₃	15 @ 45"	20'-2"	Drilled as in detail, shipped riveted complete.

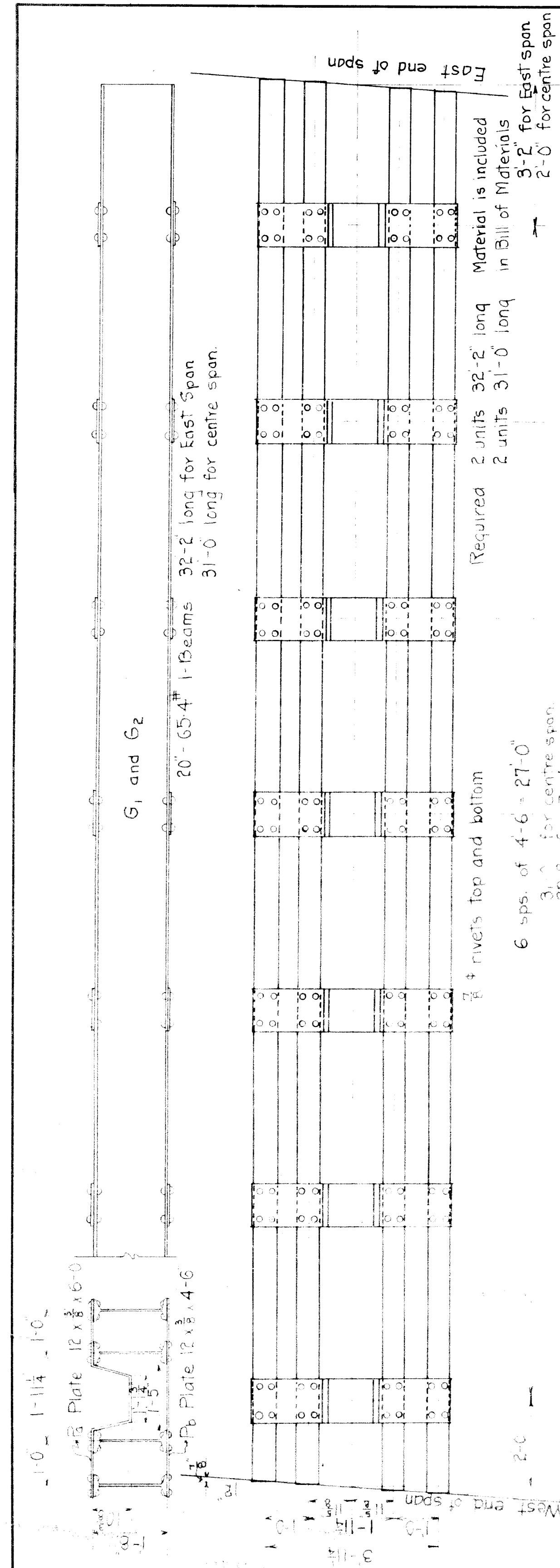
BILL OF WIRE MESH		
LOCATION	SHEETS	DESCRIPTION
Railing (East span)	4	32 x 13-8 1/2 Truscon Rib Metal #4 or equivalent
Railing (Centre span)	4	32 x 13-8 1/2 ditto
Railing (West span)	2	32 x 17-2 1/2 ditto
Sidewalk	58	32 x 7-3 ditto
Deck (Bottom) East Centre span	28	48 x 19-8 Truscon Rib Metal #6 or equivalent
Deck (Bottom) West span	8	48 x 19-4 ditto
Deck (Sidewalk) E. and Centre span	60	64 x 5-0 Truscon rib metal #9 or equivalent
Deck (Sidewalk) West span	18	64 x 4-0 ditto
Deck Protective coat	1134 ft	#12 gauge 4" wire mesh
Deck Blast protection	300 ft	ditto
Deck Blast protection	216 ft	48" wire

MISCELLANEOUS MATERIAL		
ITEM	NO.	DESCRIPTION
Bearing Plates (Bent)	2	22'-6"
Bearing Plates (Bent)	2	24'-4"
Bearing Plates (Bent)	2	27'-4"
Bearing Plates (Bent)	2	27'-4"
Anchor bolts	288	3" x 4" x 1'-6" Swedge bolts with hexagonal nuts
Clips	288	See detail
Plates P _a	36	12" x 3/8" x 6'-0" See detail
Plates P _b	36	12" x 3/8" x 4'-6" See detail

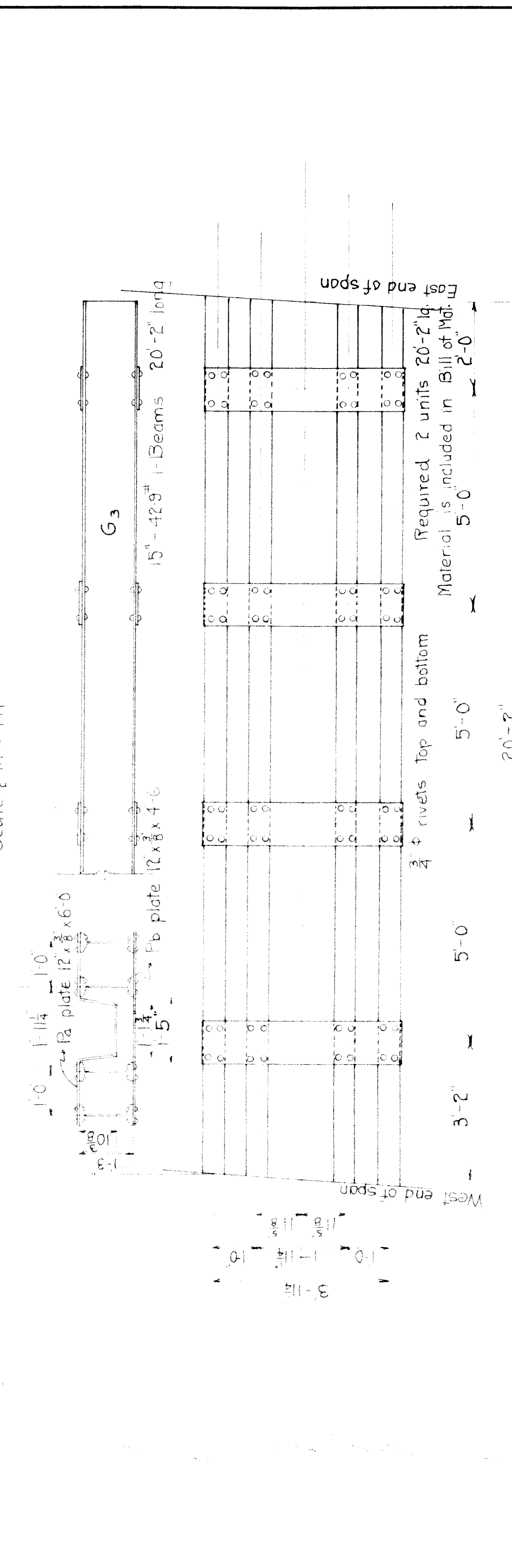


DETAIL OF I-BEAM CLIPS
Scale 1/2 in. = 1 ft.

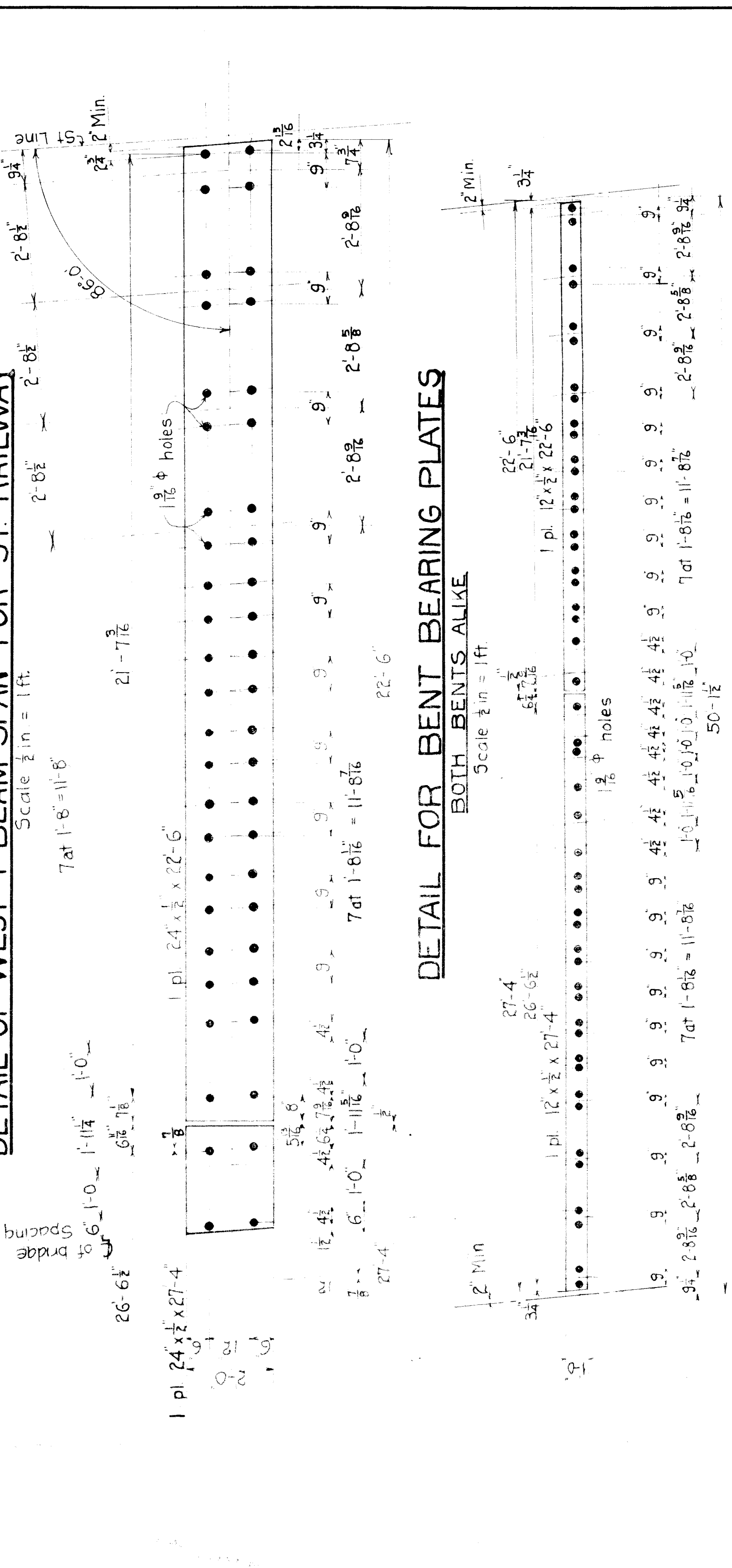
Plate 3' x 2' x 0.5" (268 required)
Plate 3' x 1 1/2' x 0.25" for 20' I-Beams (132 required)
Plate 3' x 1 1/2' x 0.25" for 15' I-Beams (96 required)



DETAIL OF EAST AND CENTRE I-BEAM SPAN ST. RAILWAY
Scale 1/2 in. = 1 ft.



DETAIL OF WEST I-BEAM SPAN FOR ST. RAILWAY
Scale 1/2 in. = 1 ft.



DETAIL FOR BENT BEARING PLATES
Scale 1/2 in. = 1 ft.

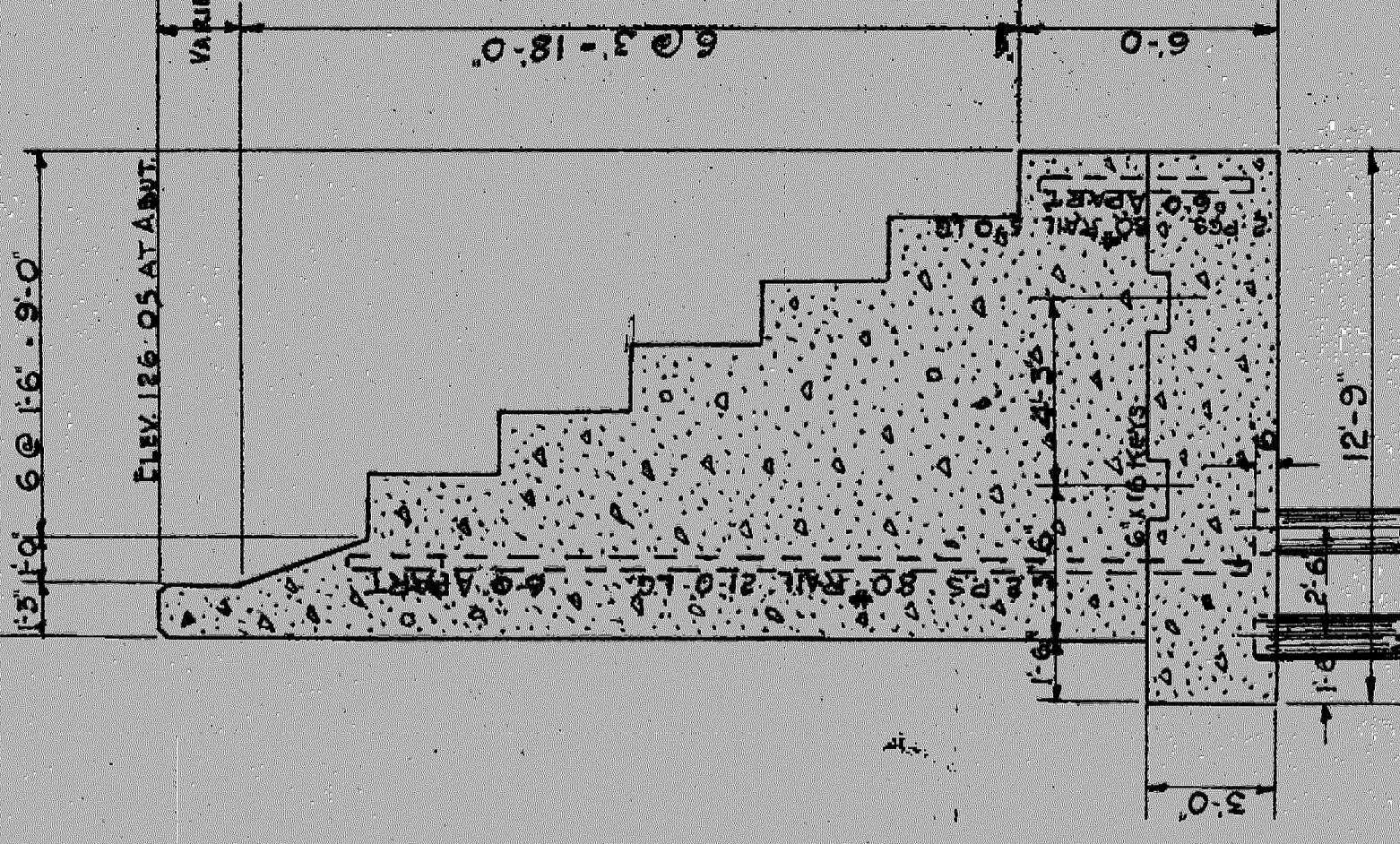
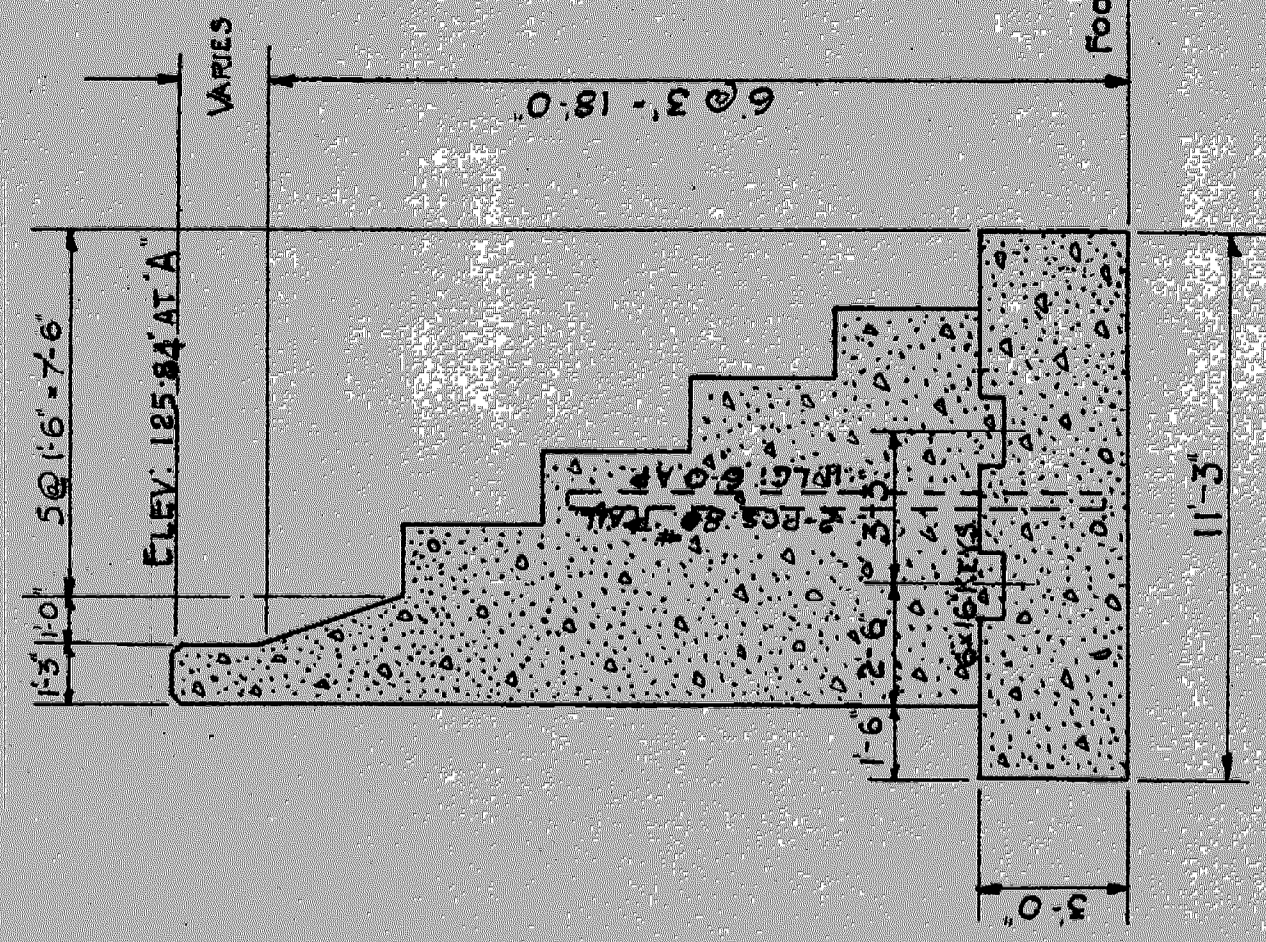
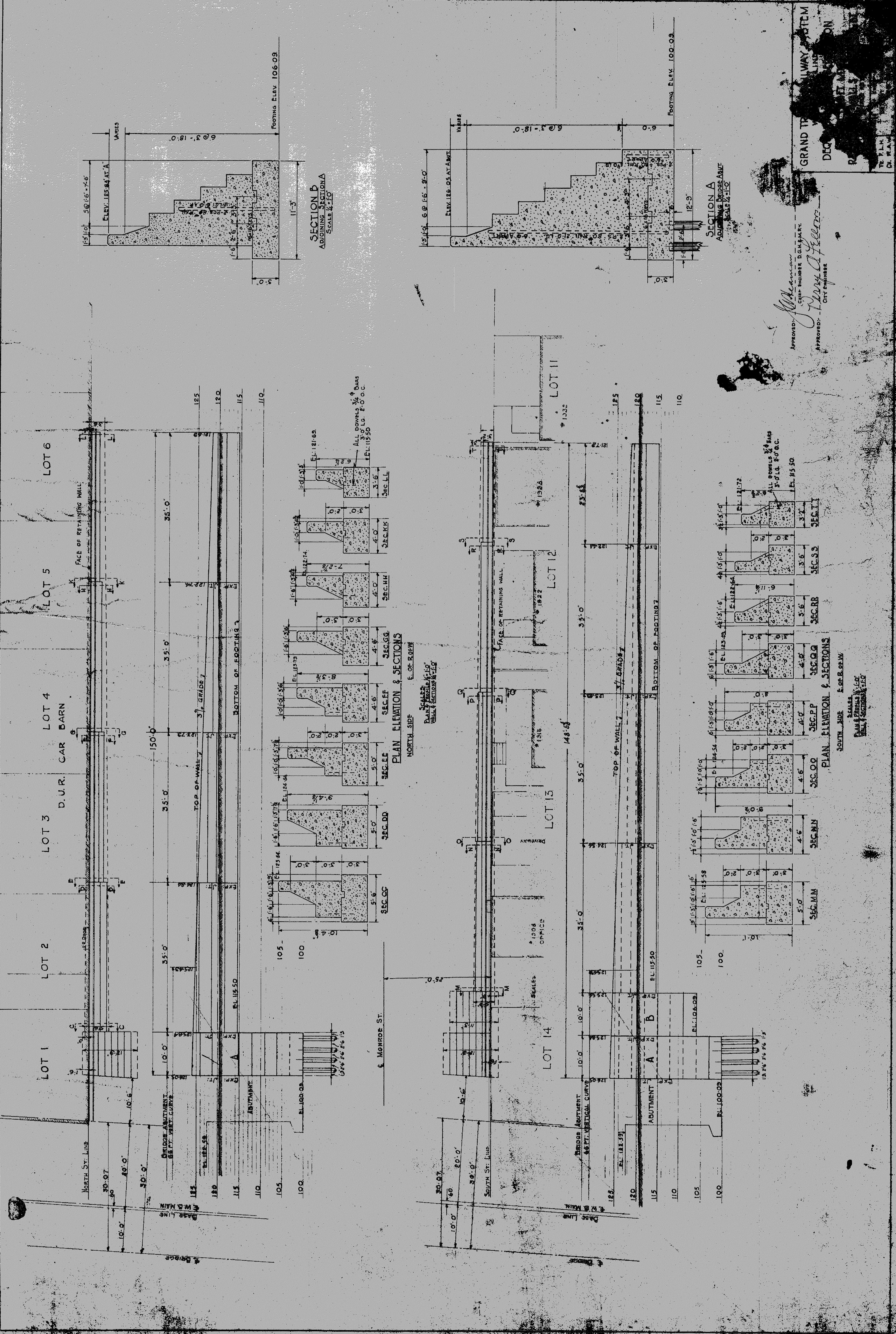
DETAIL FOR ABUTMENT BEARING PLATES
Scale 1/2 in. = 1 ft.

GRAND TRUNK RAILWAY SYSTEM
WESTERN LINES
DEQUINDRE GRADE SEPARATION
DETROIT, MICHIGAN
BRIDGE
MONROE AVENUE

Approved *[Signature]*
Chief Engineer D.G.H. & M.P.
Approved *[Signature]*
City Engineer

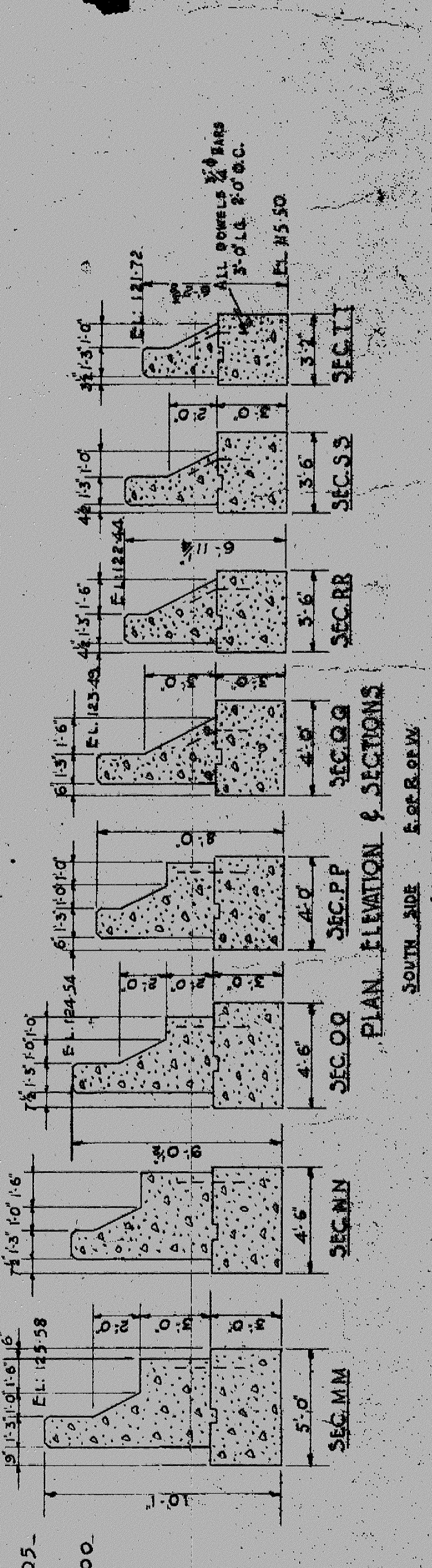
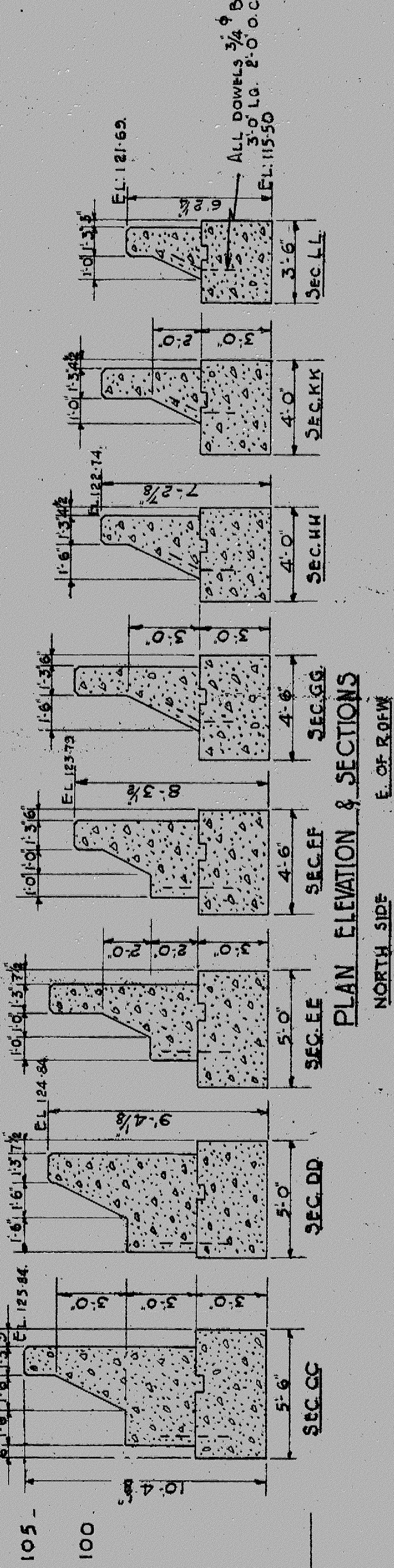
DR. REE, OFFICE OF CHIEF ENGINEER, Detroit, Mich.
TR. PRES. DETROIT MICHIGAN
CK. E.S.W. May 28, 1925

Superseding Plan # W 3068 of Feb., 1925



SECTION B
ADJOINING SECTION A
SCALE 1/4"

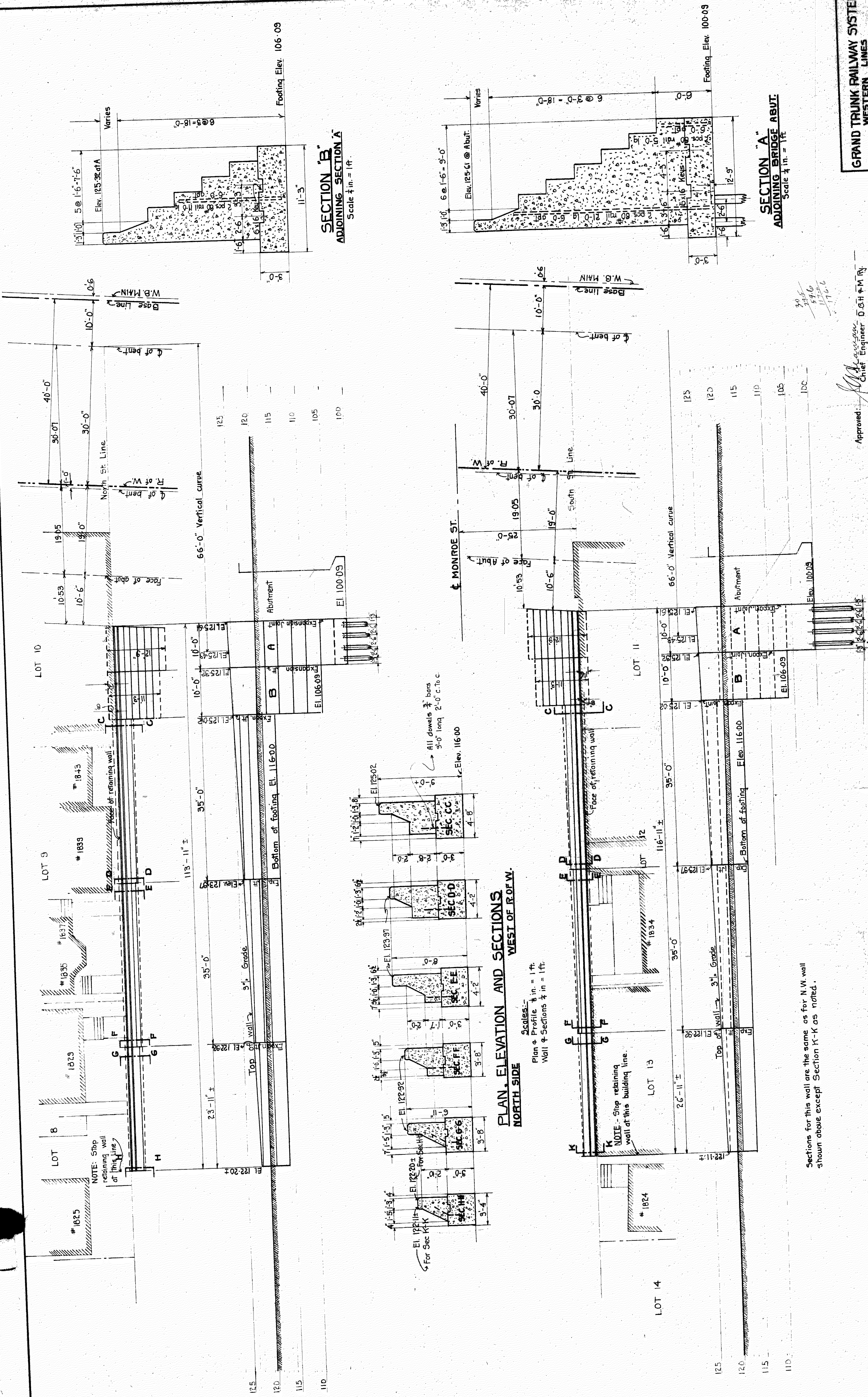
SECTION A
ADJOINING BRIDGE ABUT
SCALE 1/4"



APPROVED: *J. J. Freeman*
 CHIEF ENGINEER D.G.M.B.A.R.Y.
 APPROVED: *J. J. Freeman*
 CITY ENGINEER

GRAND TRUNK RAILWAY SYSTEM
 DEPARTMENT OF CIVIL ENGINEERING
 RAILWAY ENGINEERING SECTION

672 X 0735-6



SECTION B
ADJOINING SECTION A
Scale 1/4 in. = 1 ft.

SECTION A
ADJOINING BRIDGE ABUT.
Scale 1/4 in. = 1 ft.

PLAN, ELEVATION AND SECTIONS
WEST OF R.O.F.W.
NORTH SIDE

PLAN, ELEVATION AND SECTIONS
WEST OF R.O.F.W.
SOUTH SIDE

Sections for this wall are the same as for N.W. wall shown above except Section K-K as noted.

Scales:
Plan & Profile 1/8 in. = 1 ft.
Wall & Sections 1/4 in. = 1 ft.

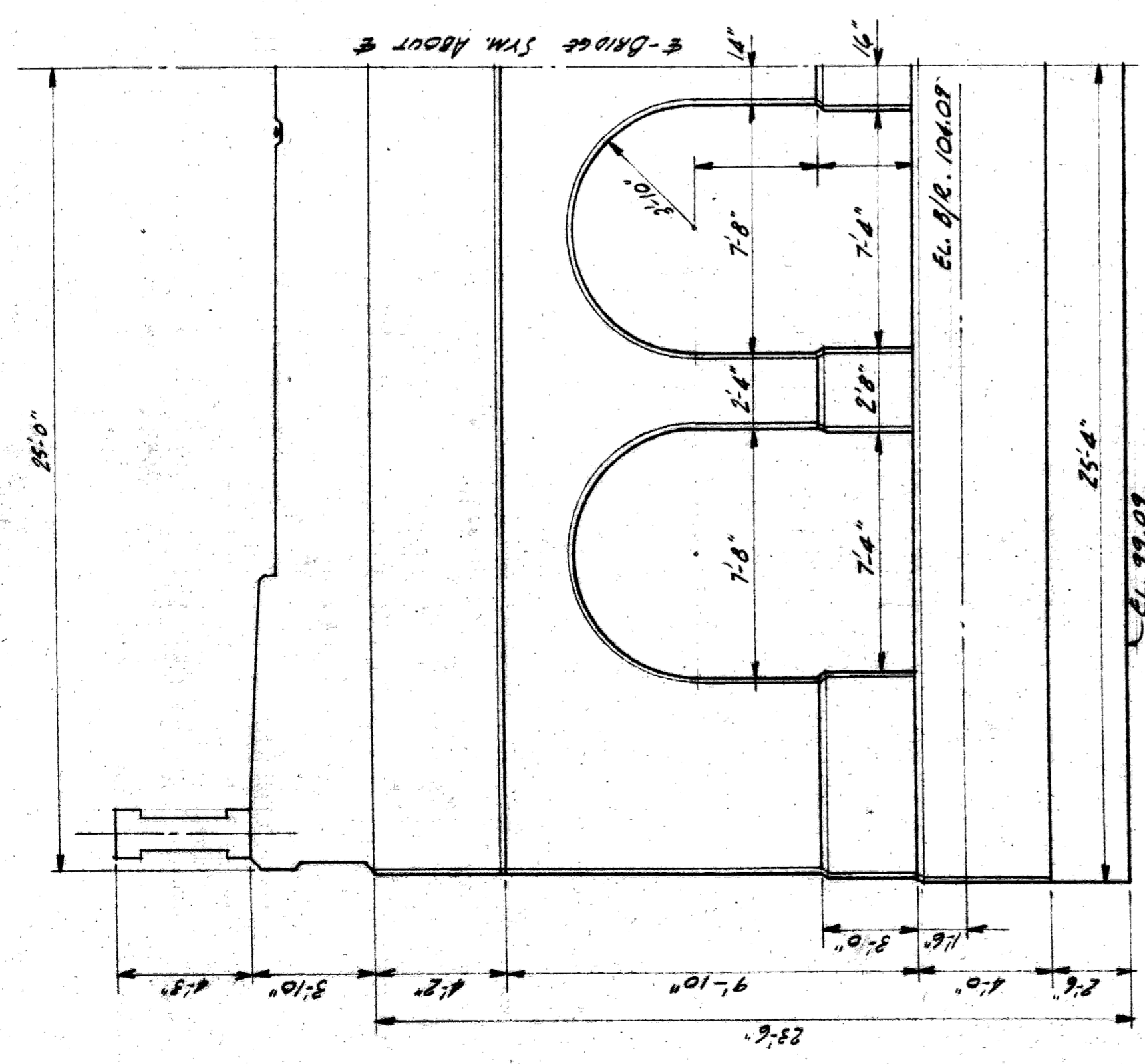
Scale
Plan & Profile 1/8 in. = 1 ft.
Wall & Sections 1/4 in. = 1 ft.

Approved: *[Signature]*
Chief Engineer O.G.H. & M. Ry.
Approved: *[Signature]*
City Engineer

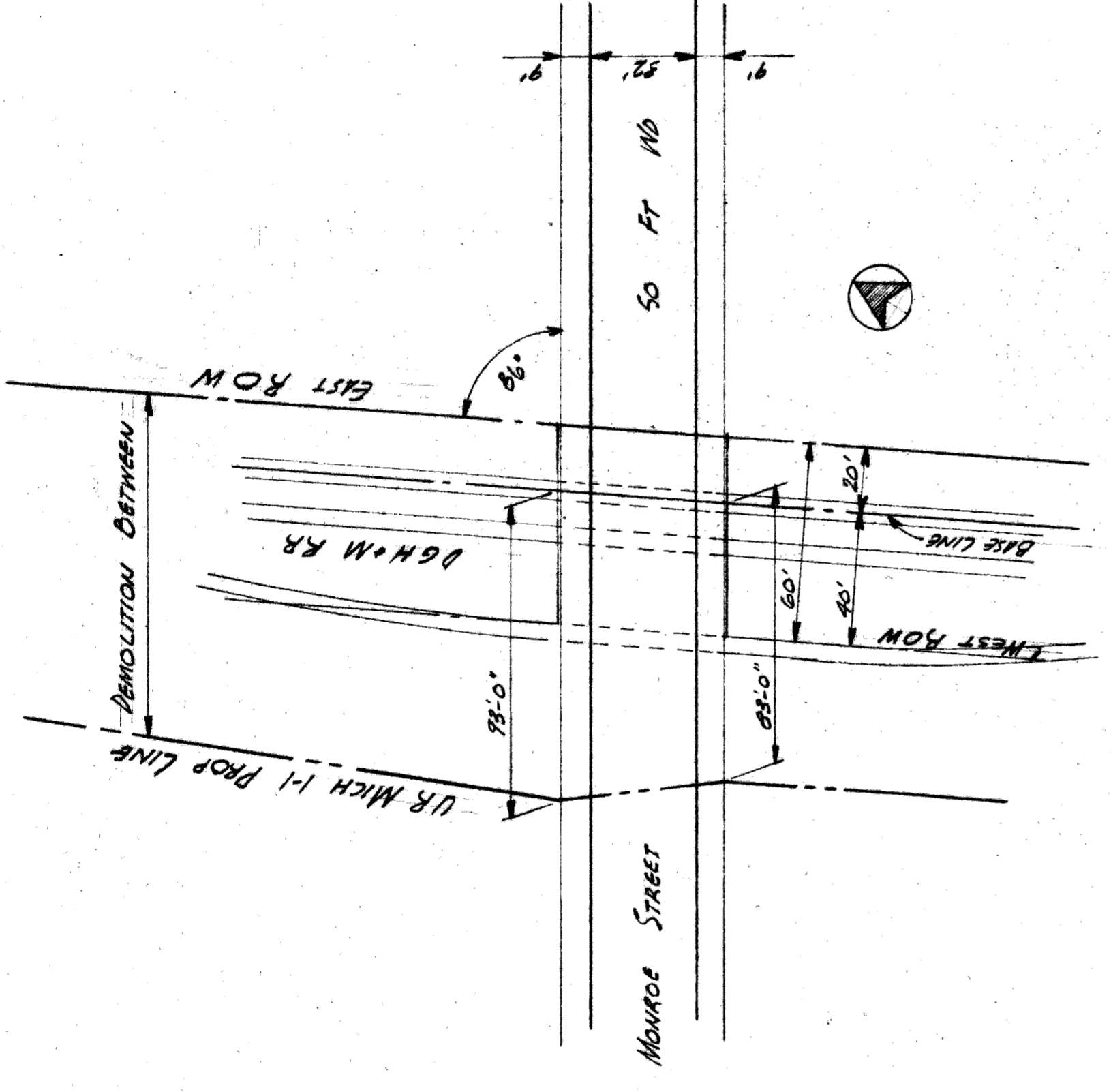
GRAND TRUNK RAILWAY SYSTEM
WESTERN LINES
DEQUINDRE GRADE SEPARATION
DETROIT - MICH.
RETAINING WALLS MONROE ST.
SCALE AS SHOWN

DR. RES. OFFICE OF CHIEF ENGINEER JOURNAL W. 3070
TR. RES. DETROIT MICHIGAN FILE
CH. E.J.W. May 25, 1925

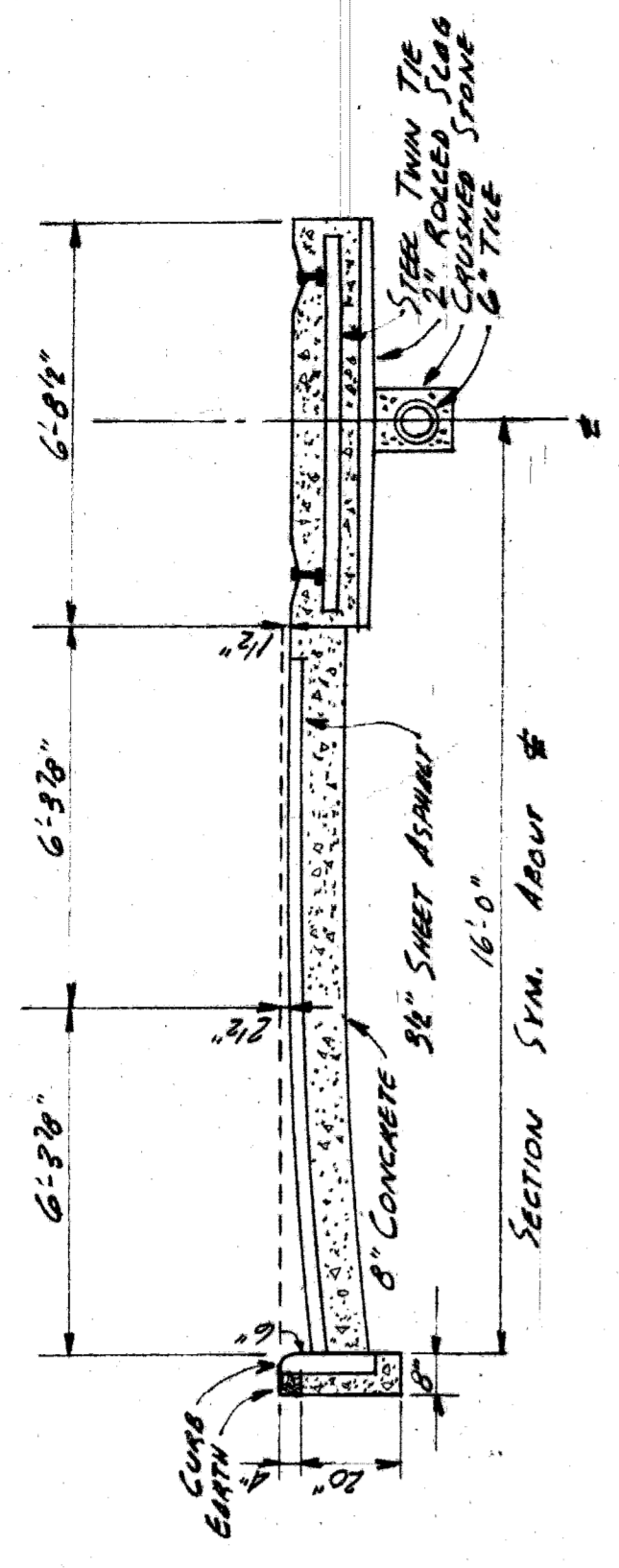
Superseding Plan W3070 of Feb. 10, 1925 Sheet 2 of 2



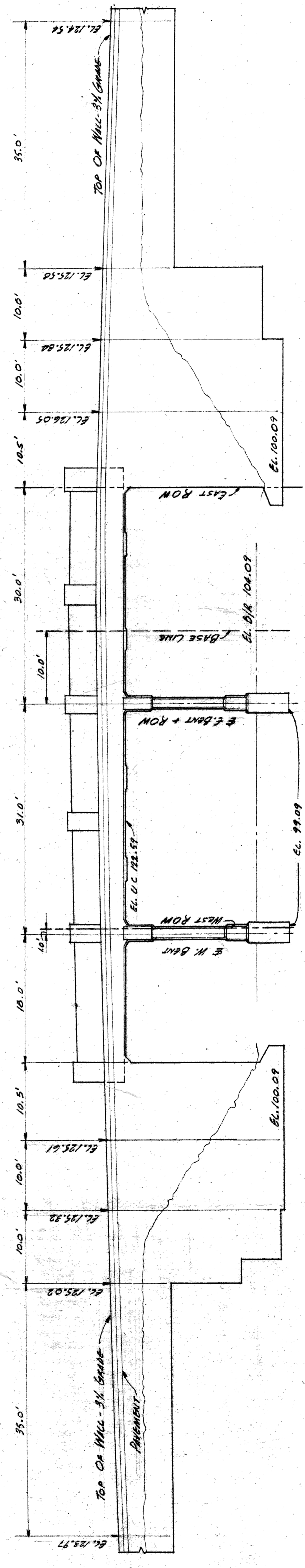
HALF SECTION THRU BRIDGE
SCALE - 1/4" = 1'-0"



LOCATION PLAN
SCALE - 1/4" = 40'-0"



HALF SECTION THRU PAVEMENT
SCALE - 1/4" = 3'-0"



ELEVATION OF SOUTH WALLS
SCALE - 8" = 1'-0"

DESIGNED BY	E. Mitchell	APPROVED	<i>[Signature]</i>
DRAWN BY	M. Spinkel	CITY ENGINEER	<i>[Signature]</i>
TRACED BY	M. Spinkel	ASST. CITY ENGINEER	<i>[Signature]</i>
CHECKED BY	E. Mitchell	CITY ENGINEER	<i>[Signature]</i>
REFERENCE DRAWINGS			
DESCRIPTION			
REVISIONS LOCATED BY COORDINATES ON SHEET			
CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR DETROIT HOUSING COMMISSION			
DEMOLITION OF HIGHWAY BRIDGES MONROE STREET BRIDGE LOCATION PLAN + SECTION			
SHEET 2 OF 3 SHEETS		CONTRACT NO. HS-1	
DRAWING NO. S-4		DATE AUG. 1957	

XO-73