

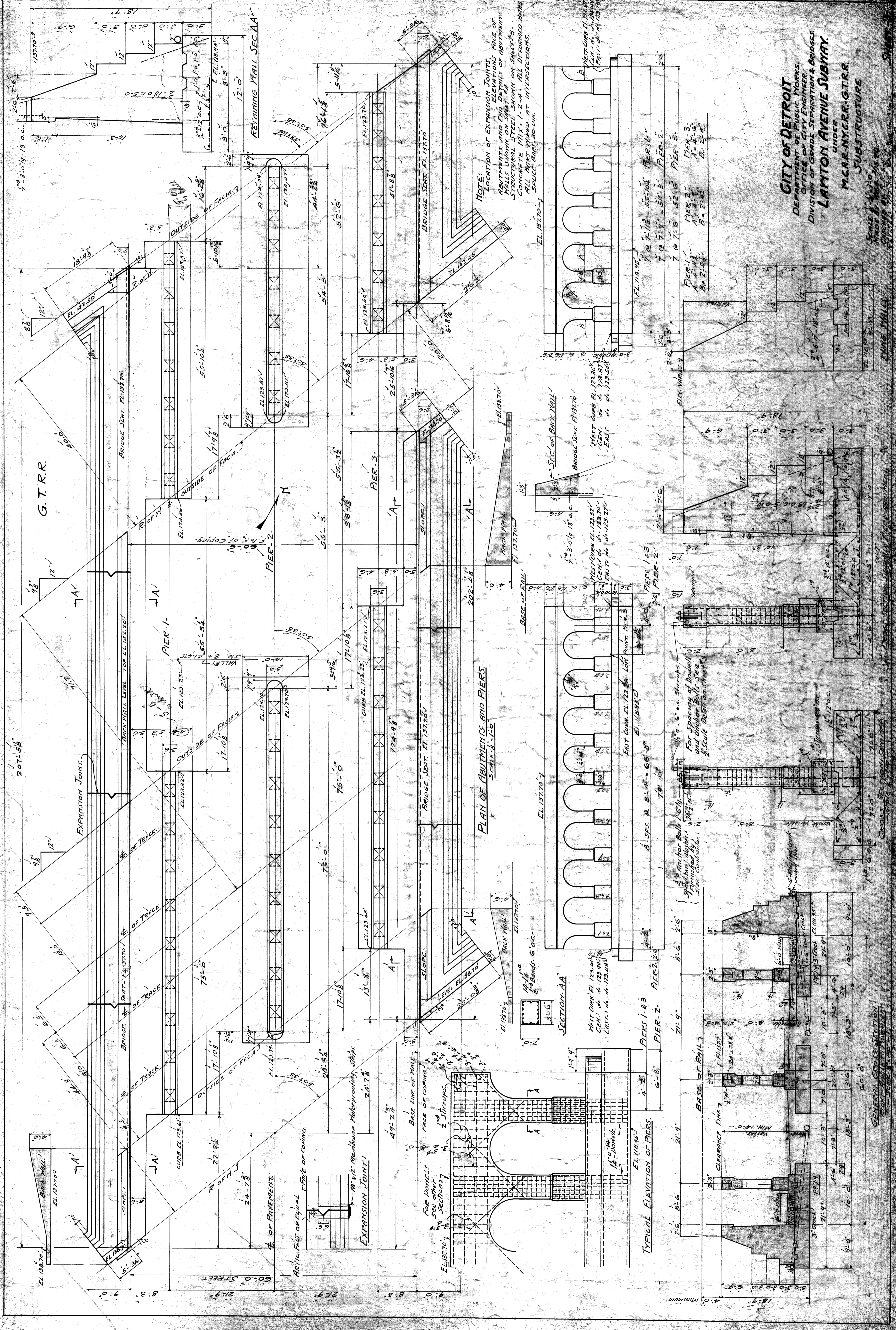
CITY OF DETROIT.
DEPARTMENT OF PUBLIC WORKS.
OFFICE OF CITY ENGINEER.
DIVISION OF GRADE SEPARATION & BRIDGES.

DRAINAGE PLAN AND PROFILE.
Scales: Hor. 1" = 40'
Ver. 1" = 10'

Approved: _____
City Engineer *Mary J. McLaughlin*
Asst. Chief Engineer *M.C.R.R. Brennan*

LAWTON AVE.
Subway Paving 18'-3" WD.
Asphalt Approach Paving 40' WD.

Scale as indicated.
Drawn by H.T.J.
Checked by R.S.S.
Buildings revised Aug. 9, 1916.
Field book W-501
SHEET 1



PLAN OF ABUTMENTS AND PIERS
SCALE 1/4" = 1'-0"

SECTION AA

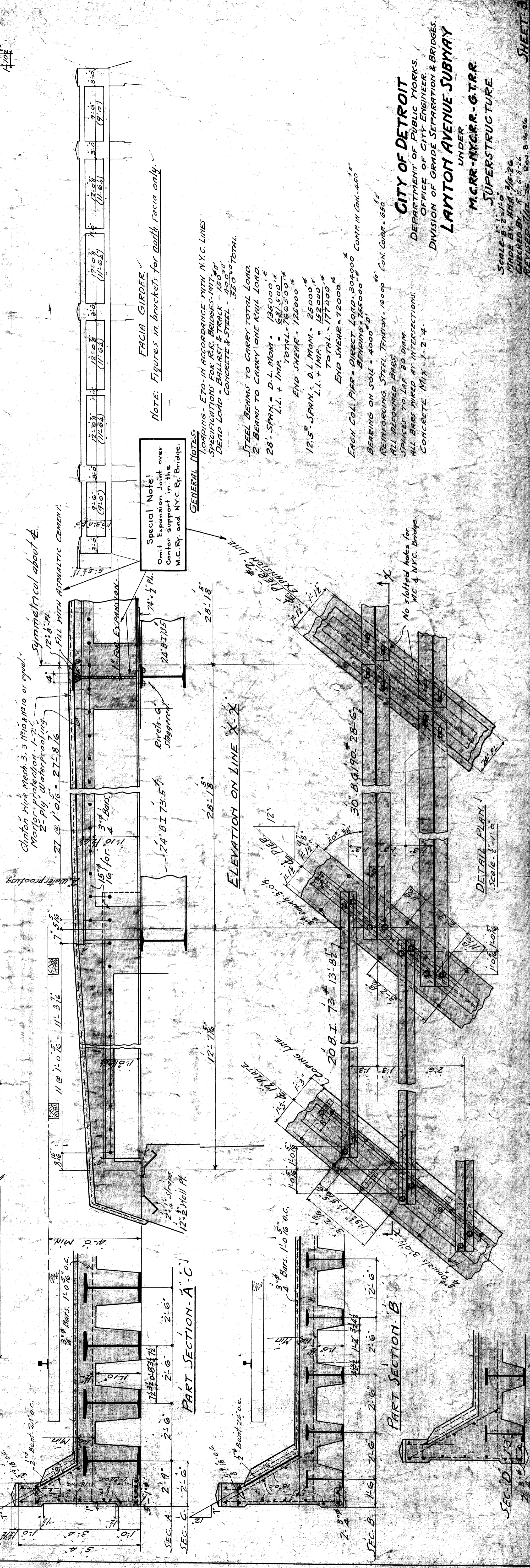
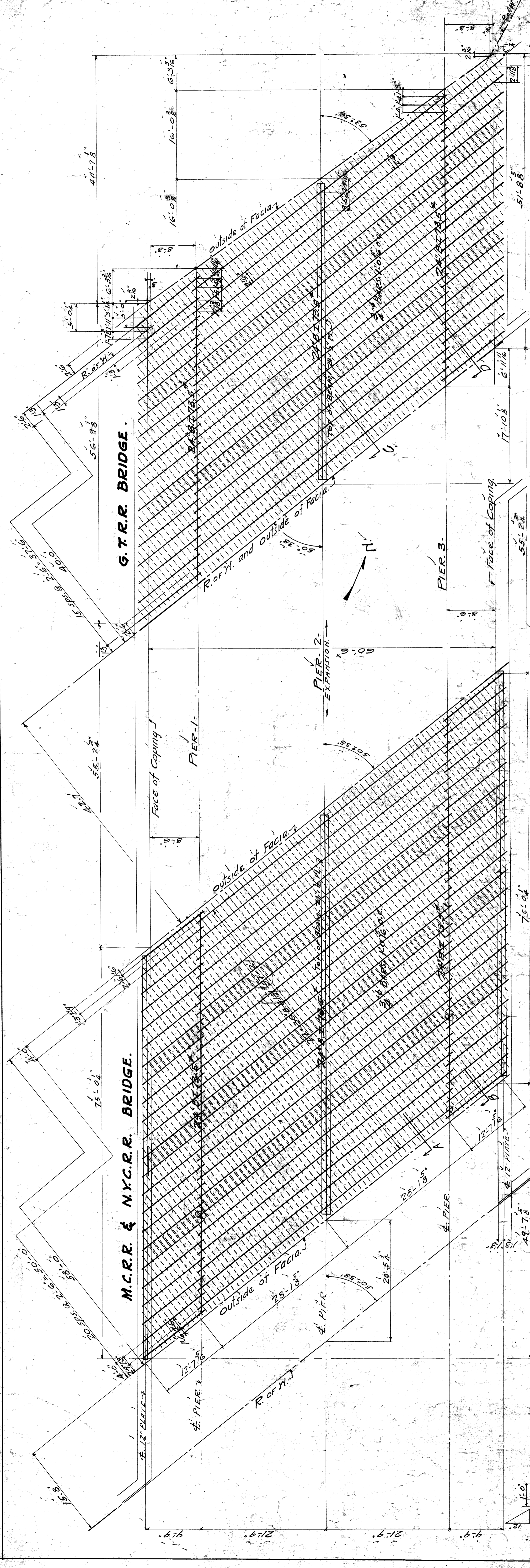
TYPICAL ELEVATION OF PIERS

GENERAL CROSS SECTION
RIGHT ANGLE TO FACING

NOTE: LOCATION OF EXPANSION JOINTS, ELEVATIONS AND END DETAILS OF ABUTMENT, STRUCTURAL STEEL SHOWN ON SHEET S-3. CONCRETE MIX. 1-2-4. ALL DEFORMED BARS ALL BARS WELDED AT INTERSECTIONS. SPALLS 5/8" DIA.

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
OFFICE OF CITY ENGINEER
DIVISION OF GRADE SEPARATION & BRIDGES
LANSTON AVENUE SUBWAY
UNDER
M.C.R.R.-N.Y.C.R.R. G.T.R.R.
SUBSTRUCTURE

Scale 1/4" = 1'-0"
Checked by [Name]
Designed by [Name]



Special Note!
Omit Expansion Joint over Center support in the M.C.R.R. and N.Y.C.R.R. Bridge.

GENERAL NOTES:
LOADING - ETO IN ACCORDANCE WITH N.Y.C. LINES
SPECIFICATIONS FOR R.R. BRIDGES-1911-1915
DEAD LOAD = BALLAST & TRACK - 150' w/ft
CONCRETE & STEEL - 350' w/ft TOTAL

STEEL BEAMS TO CARRY TOTAL LOAD.
28'-SPAN = D.L. MOM. = 125,000' w/ft
L.L. + IMP. = 641,500' w/ft
TOTAL = 766,500' w/ft
END SHEAR = 125,000' w/ft

**12.5'-SPAN = D.L. MOM. = 25,000' w/ft
L.L. + IMP. = 152,000' w/ft
TOTAL = 177,000' w/ft
END SHEAR = 72,000' w/ft**

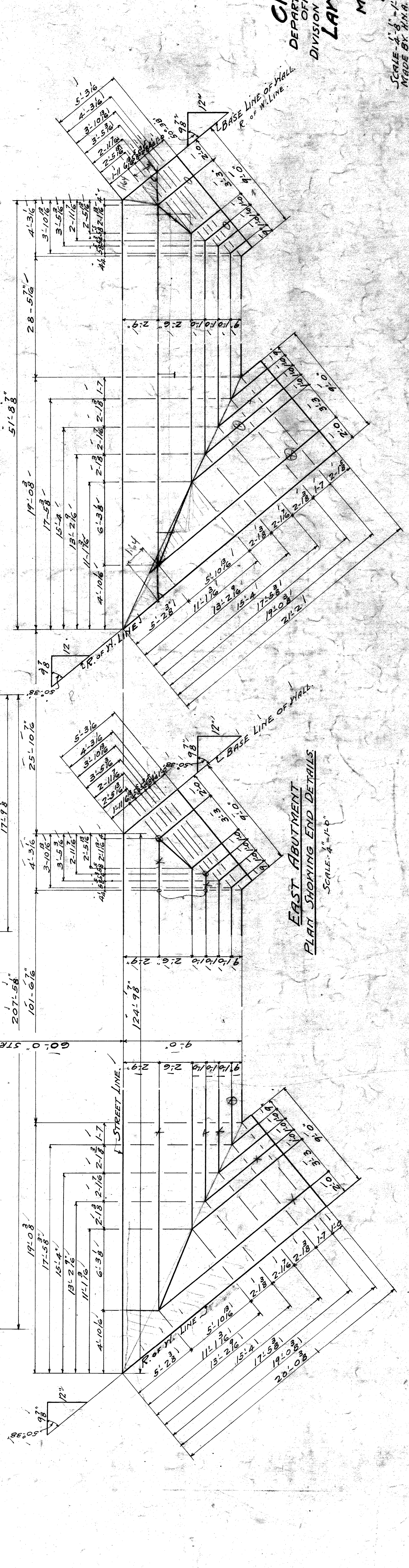
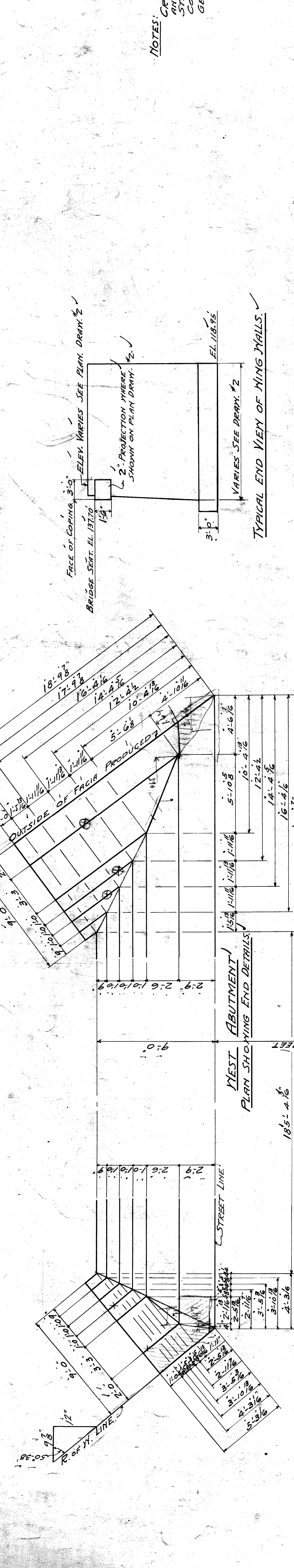
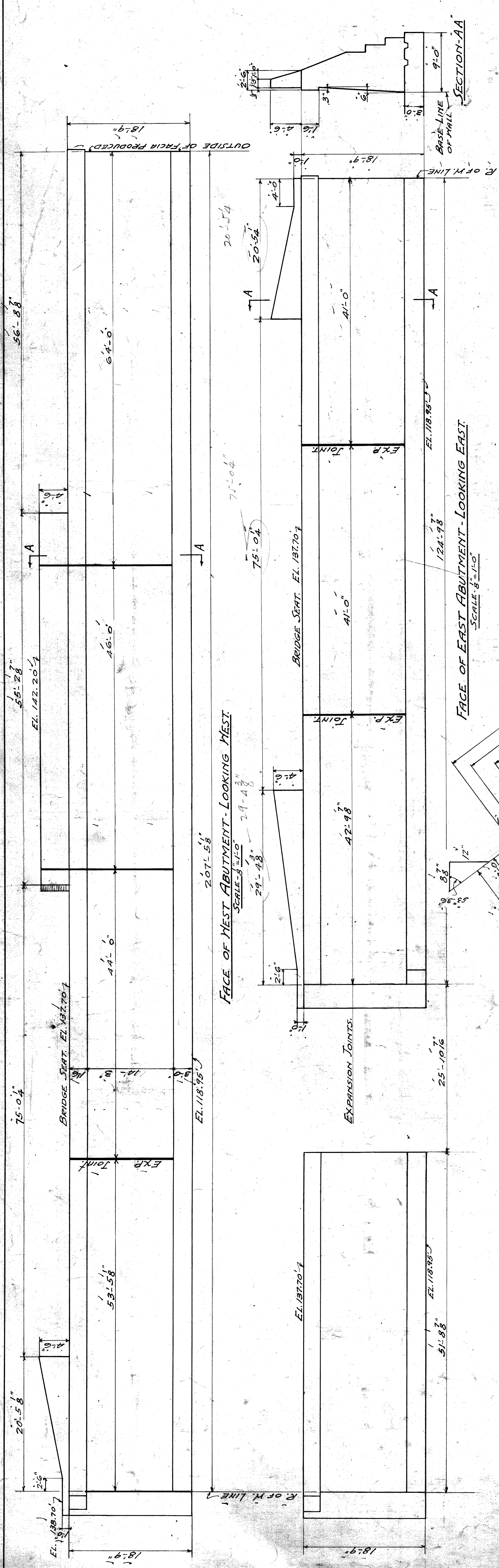
**EACH COL. PIER = DIRECT LOAD 30,000 COMP. IN COL. = 450' w/ft
BENDING 250,000' w/ft
REINFORCING STEEL TENSION 10,000' w/ft CON. COMP. = 680' w/ft
ALL DEFORMED BARS
SPICES TO LAP 50 DIA.**

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
OFFICE OF CITY ENGINEER
DIVISION OF GRADE SEPARATION & BRIDGES

UNDER
M.C.R.R. - N.Y.C.R.R. - G.T.R.R.
SUPERSTRUCTURE

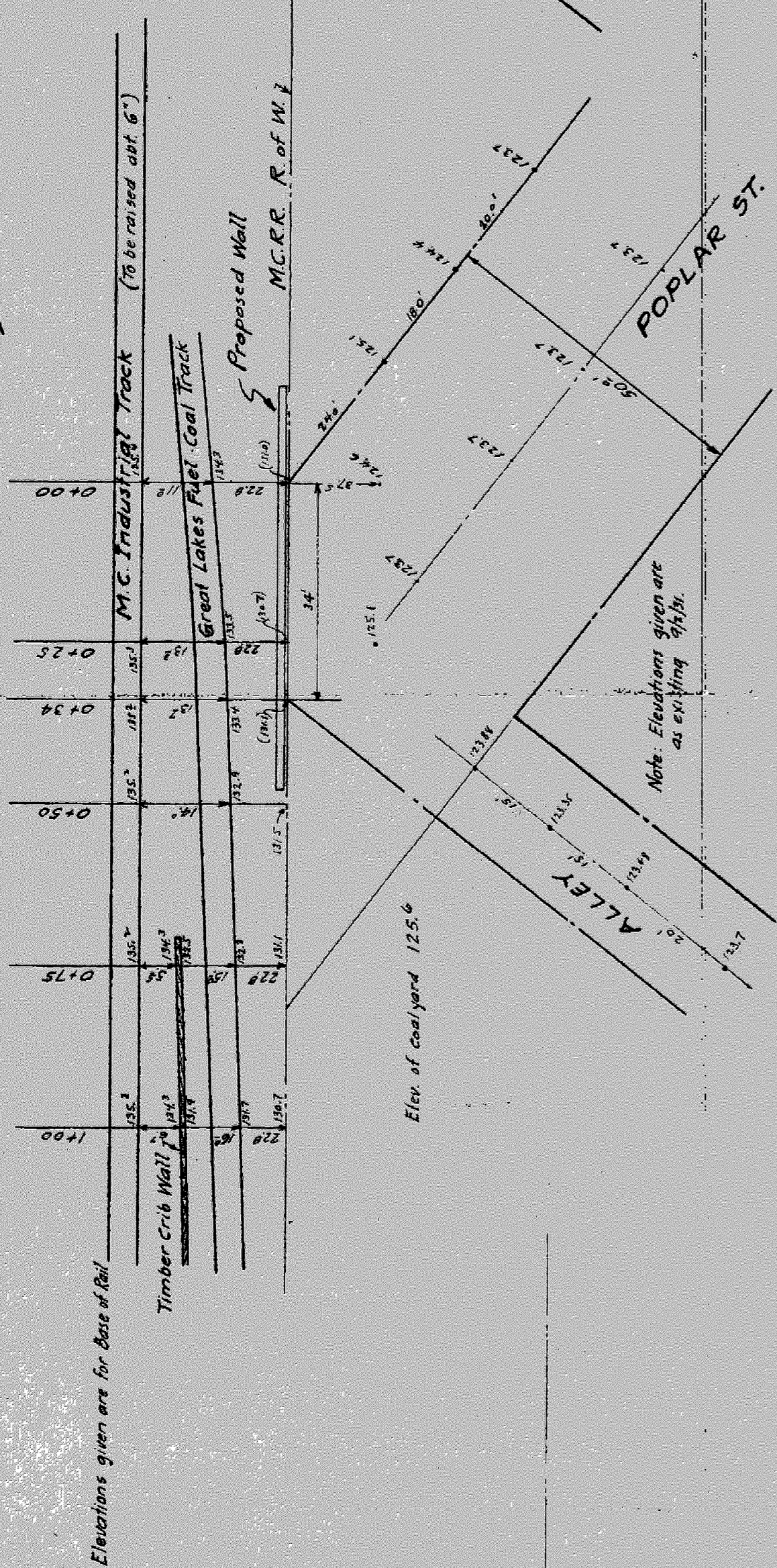
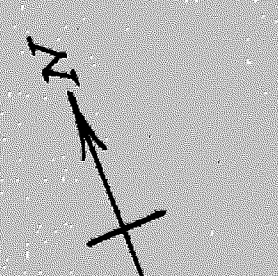
LANTON AVENUE SUBWAY

SCALE 5/8" = 1'-0"
MADE BY: J.N.R. 7/8-26
CHECKED BY: J.E.G. 8-26
REVISED BY: J.E.G. 8-16-26
REVISED 11/15-26

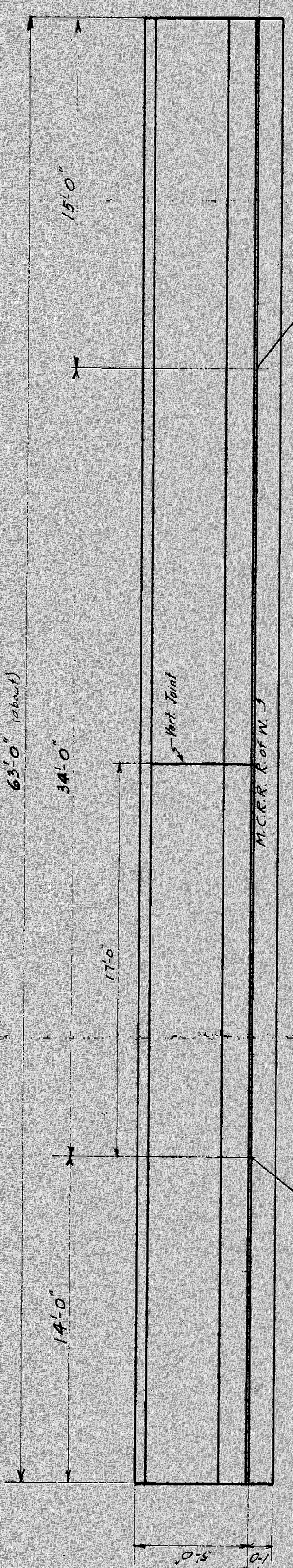


NOTES:
 CROSS SECTION DETAILS OF ABUTMENT AND PIERS SHOWN ON SHEET #2
 STRUCTURAL STEEL SHOWN ON SHEET #3
 CONCRETE MIX. 1-2-4
 GENERAL NOTES ON SHEET #3

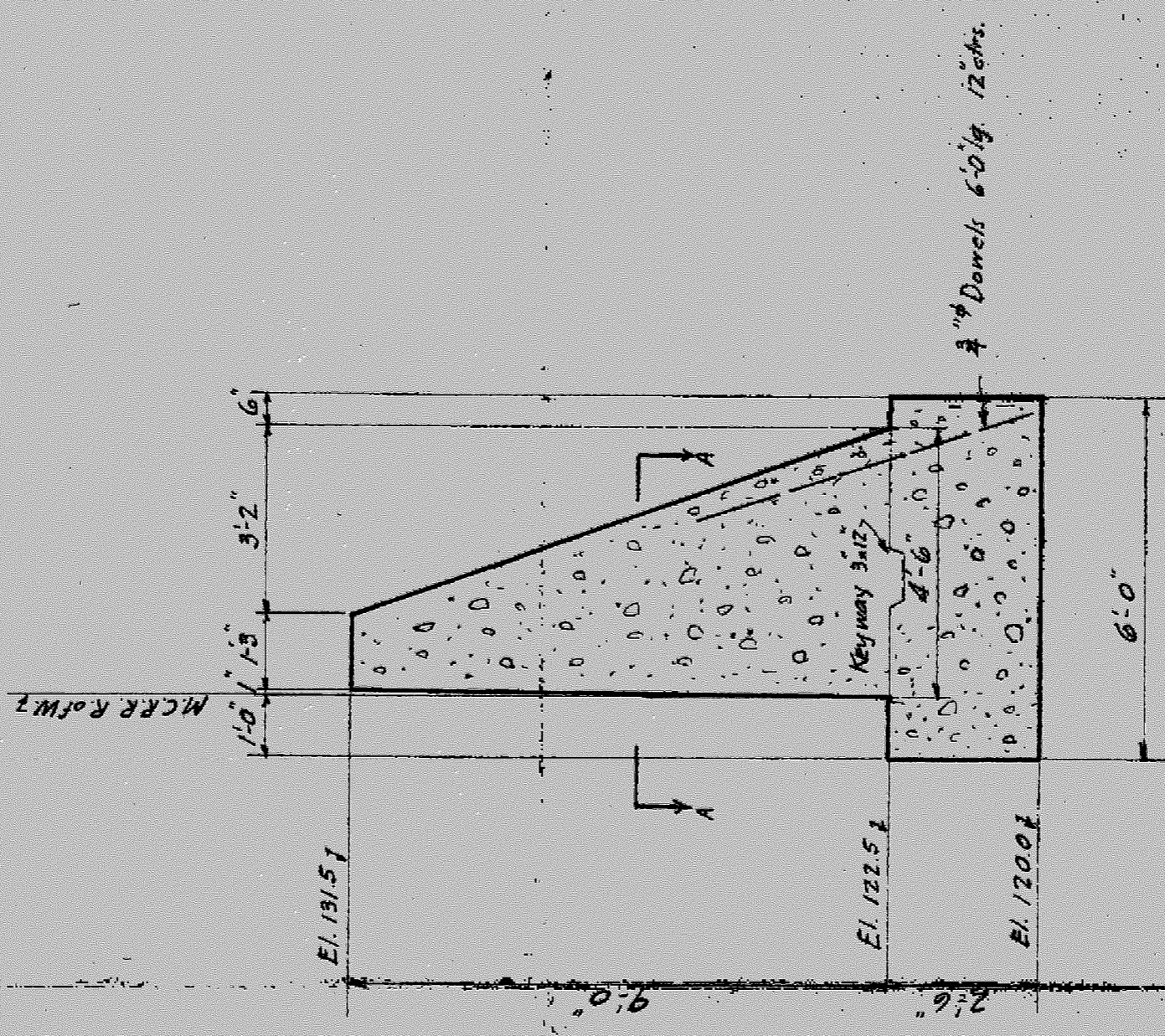
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 OFFICE OF CITY ENGINEER
 DIVISION OF GRADE SEPARATION & BRIDGES
LANTON AVENUE SUBWAY
 UNDER
 M.C.R.R. N.Y.C.R.R. - G.T.R.R.
ABUTMENT DETAILS
 SCALE: 1/4" = 1'-0"
 MADE BY H.N.A. 9.30.26
 CHECKED BY
 REVISED: 7/2-26



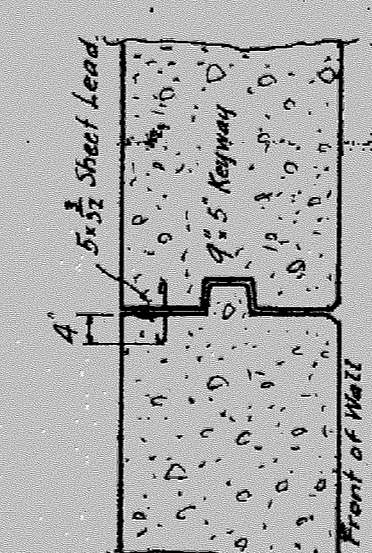
Elevations given are for base of Rail



PLAN OF WALL
Scale 1/4" = 1'-0"



CROSS SECTION
Scale 3/8" = 1'-0"



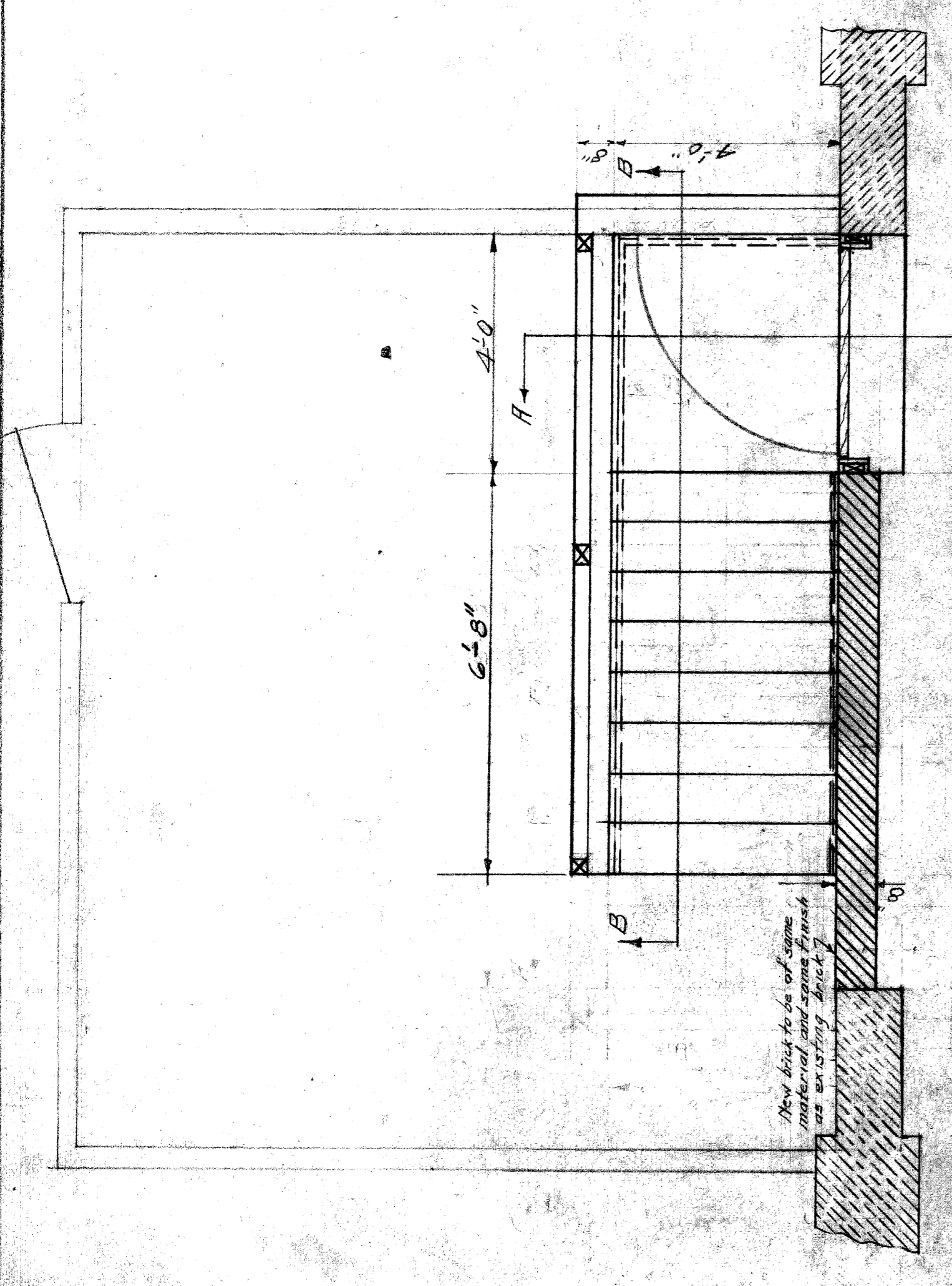
General Notes:-

Specifications - M.C. Lines for Concrete Masonry. Concrete to be Class C. (Two bags of water per sack of cement and 4 lbs. sack of cement per cu. yd. of concrete). Level all exposed corners. Top surface to have a sidewalk finish. There shall be no horizontal joints except at top of footing. Waterproofing - Reinforced concrete at asphaltic waterproofing.

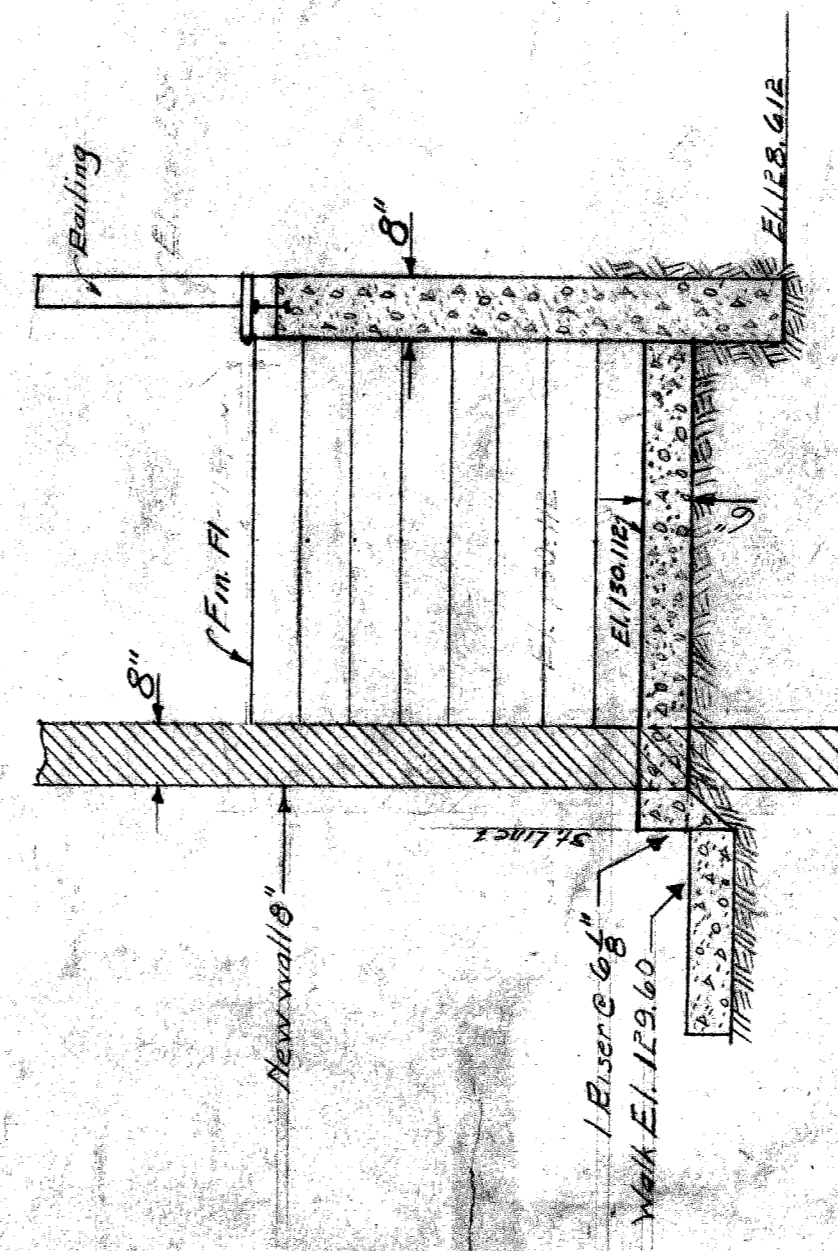
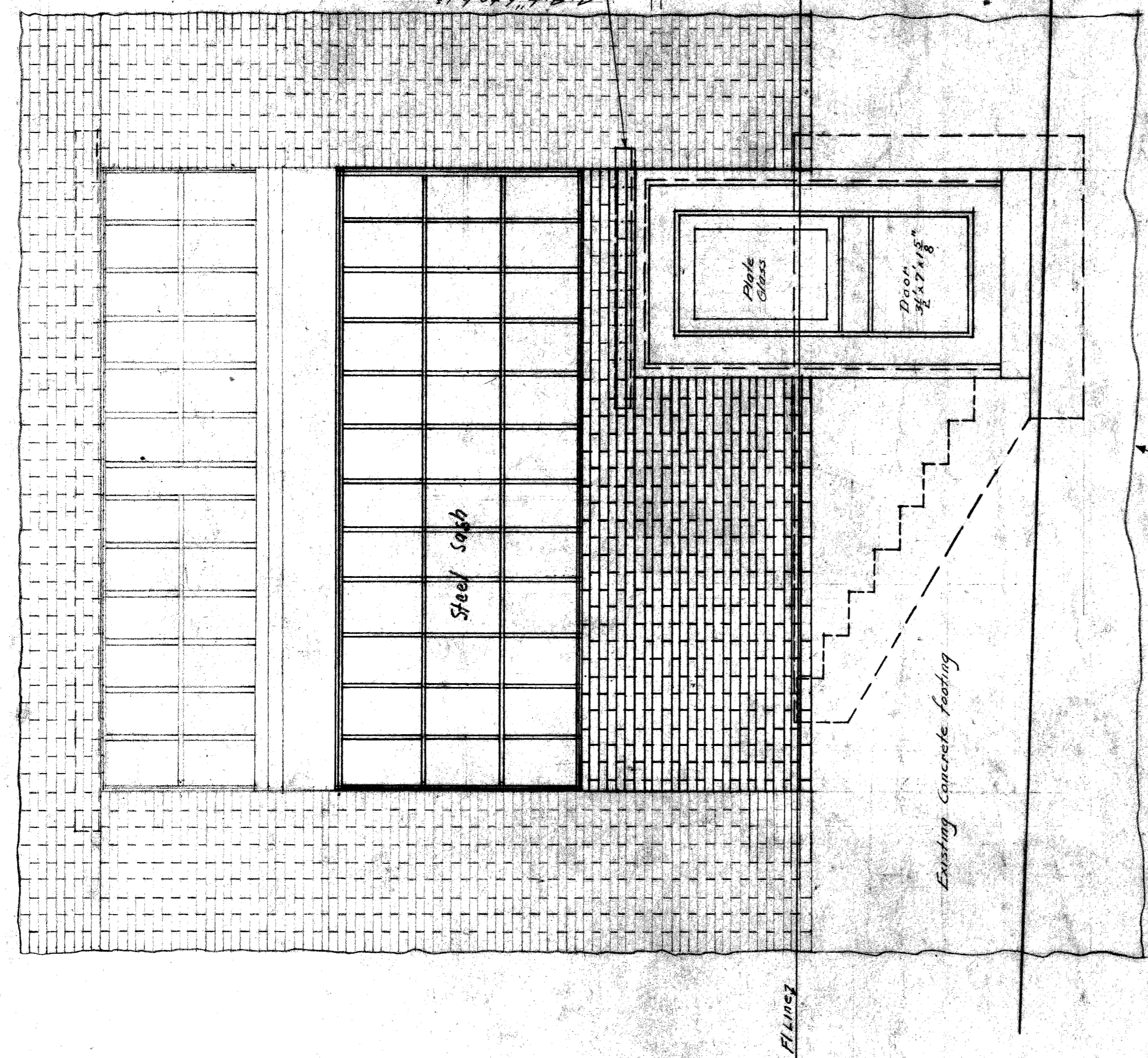
Quantities: Concrete 984 Cu. Yd.
Barri 44 3/4 Ton 6'0"

REVISIONS	M.C.R.R. - BAY CITY DIV.
	BRIDGE 3.26 POPLAR ST.
	RETAINING WALL
	SCALE - AS SHOWN = 1 FOOT
	DRAWN BY: C. S. K. 7-2-1917
	CHECKED BY: J. C. S. 7-2-1917
	TRACED BY: J. C. S. 7-2-1917
	APPROVED: J. C. S. 7-2-1917
	BRIDGE ENGINEER
DATE	1917
ISSUE NO.	1
SHEET	1 OF 1

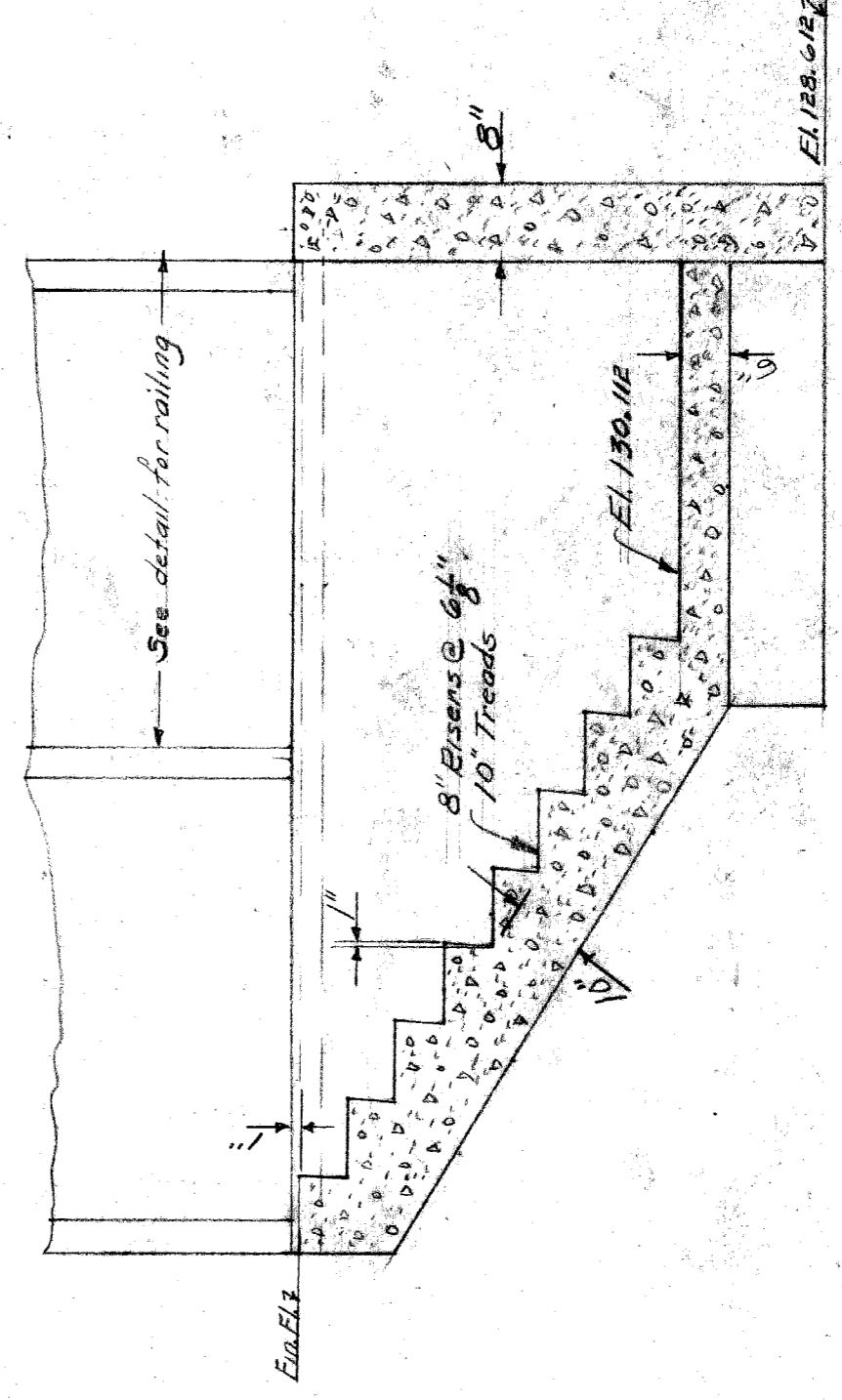
File No. 5



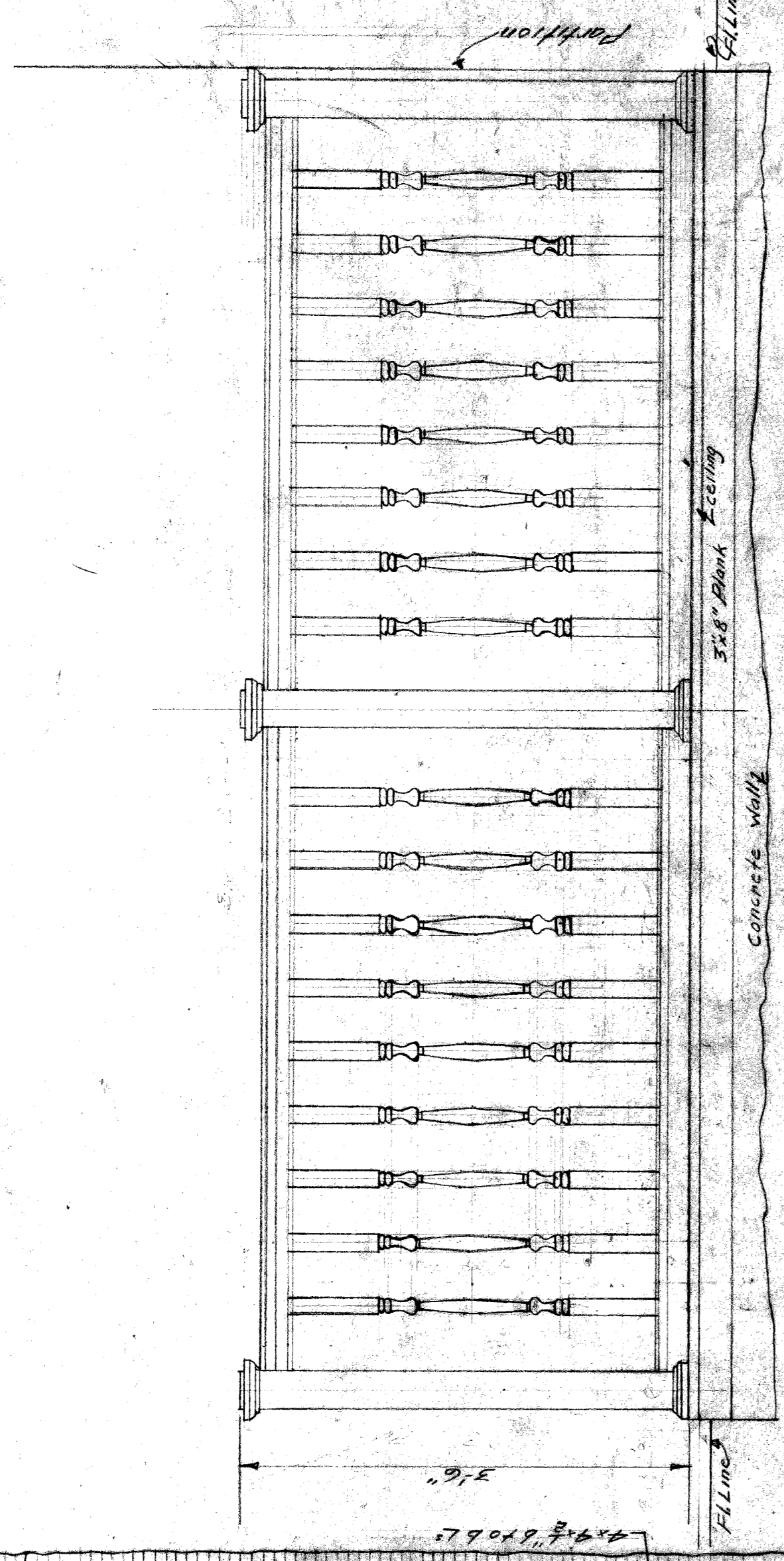
PLAN SHOWING RELOCATION OF ENTRANCE FOR VICTOR FENINSULAR COMPANY
Scale 1/4" = 1'-0"



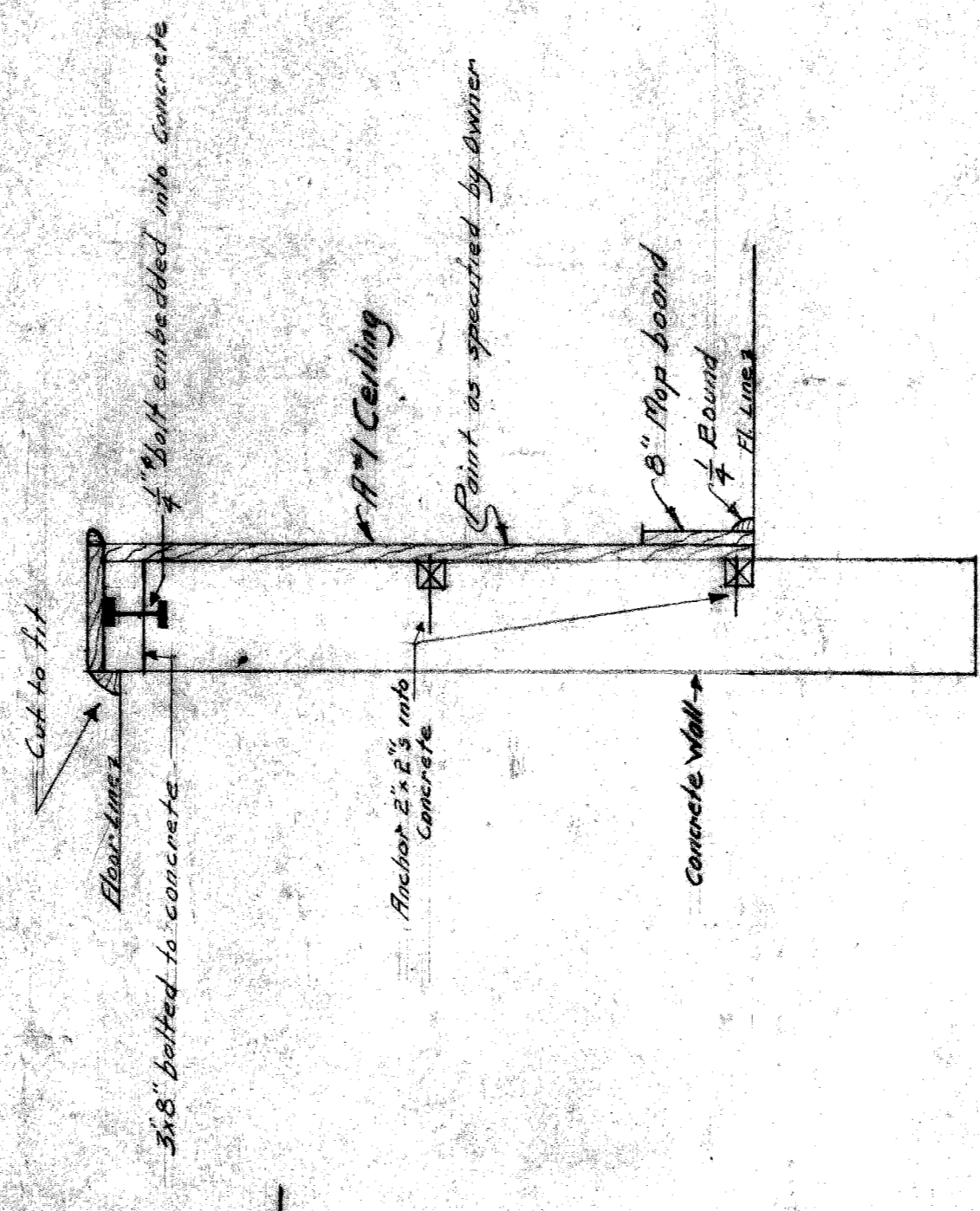
SECTION A-A
Scale 1/4" = 1'-0"



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



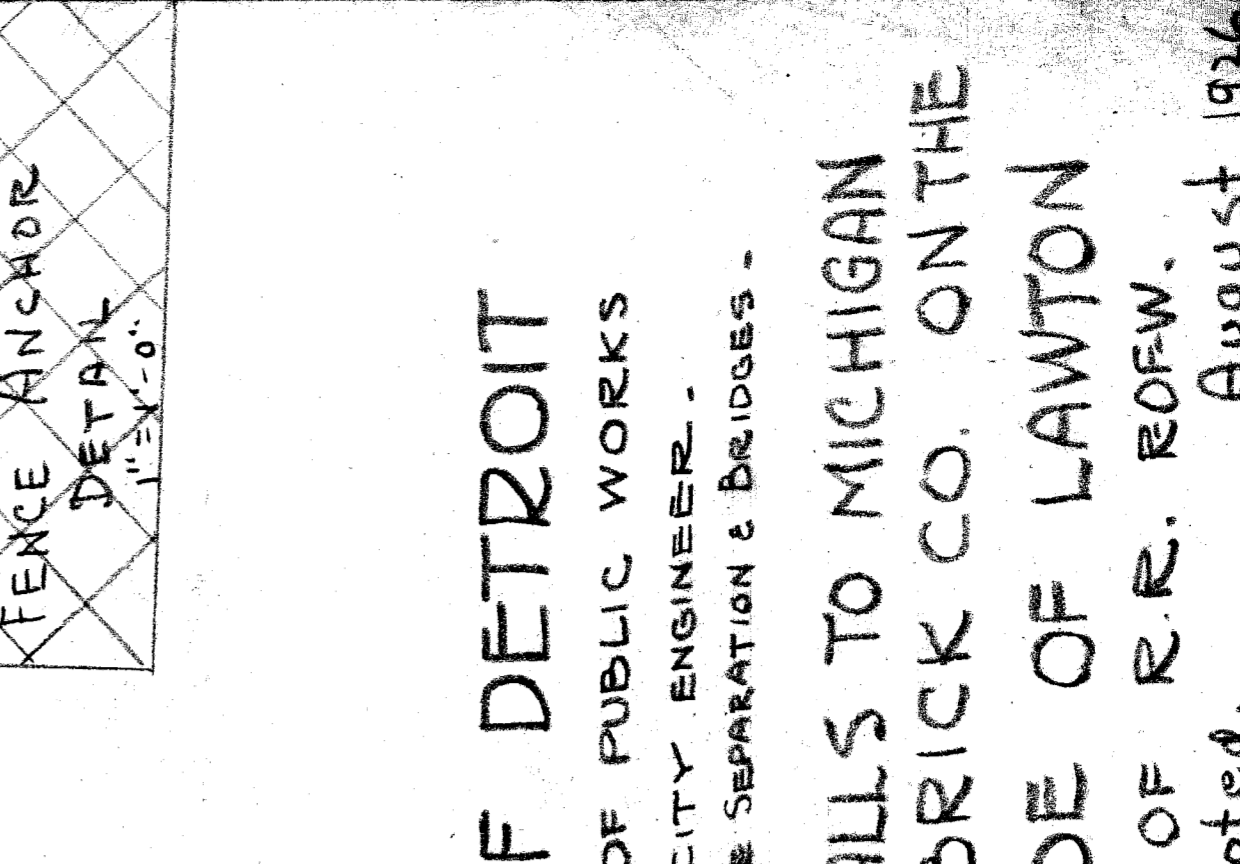
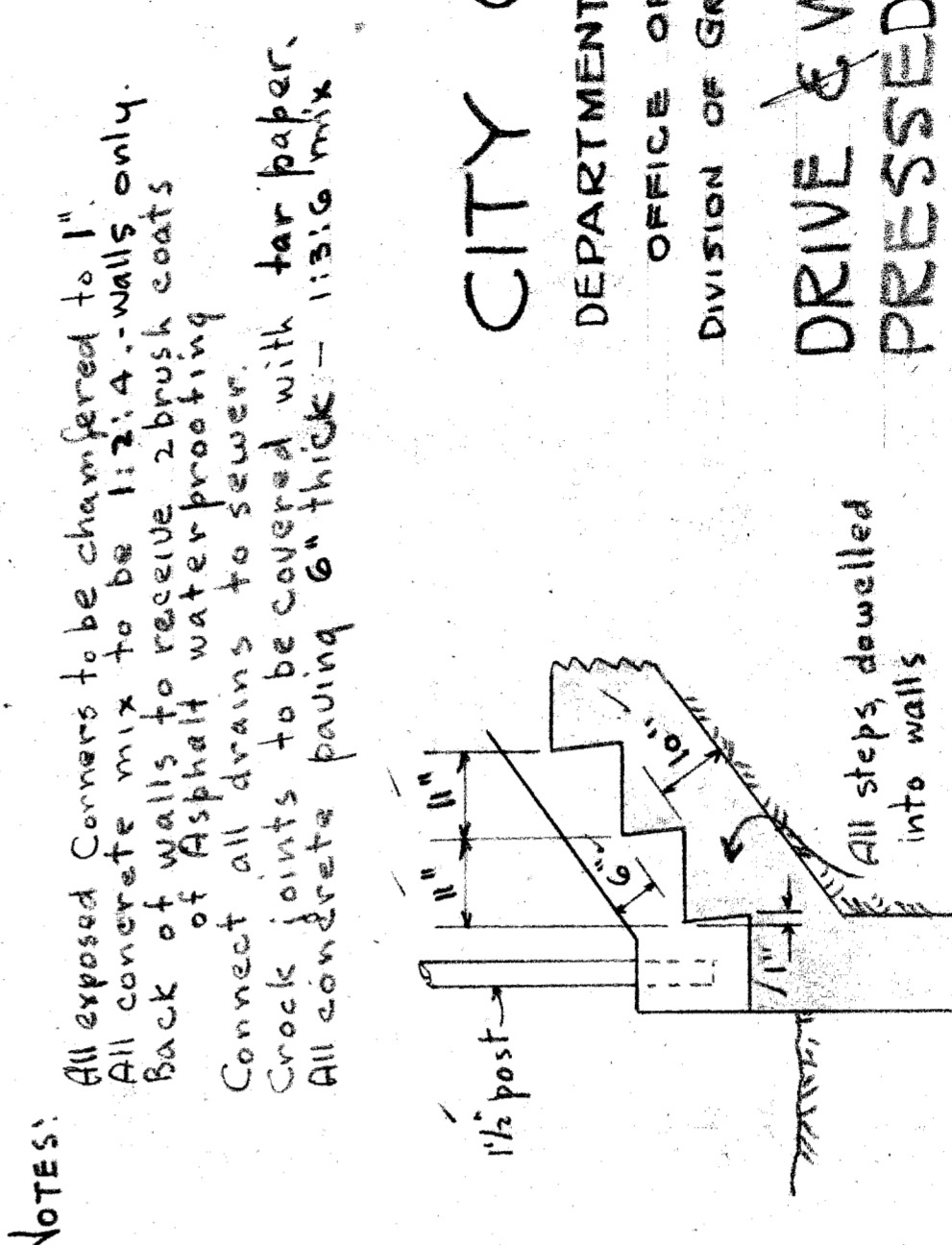
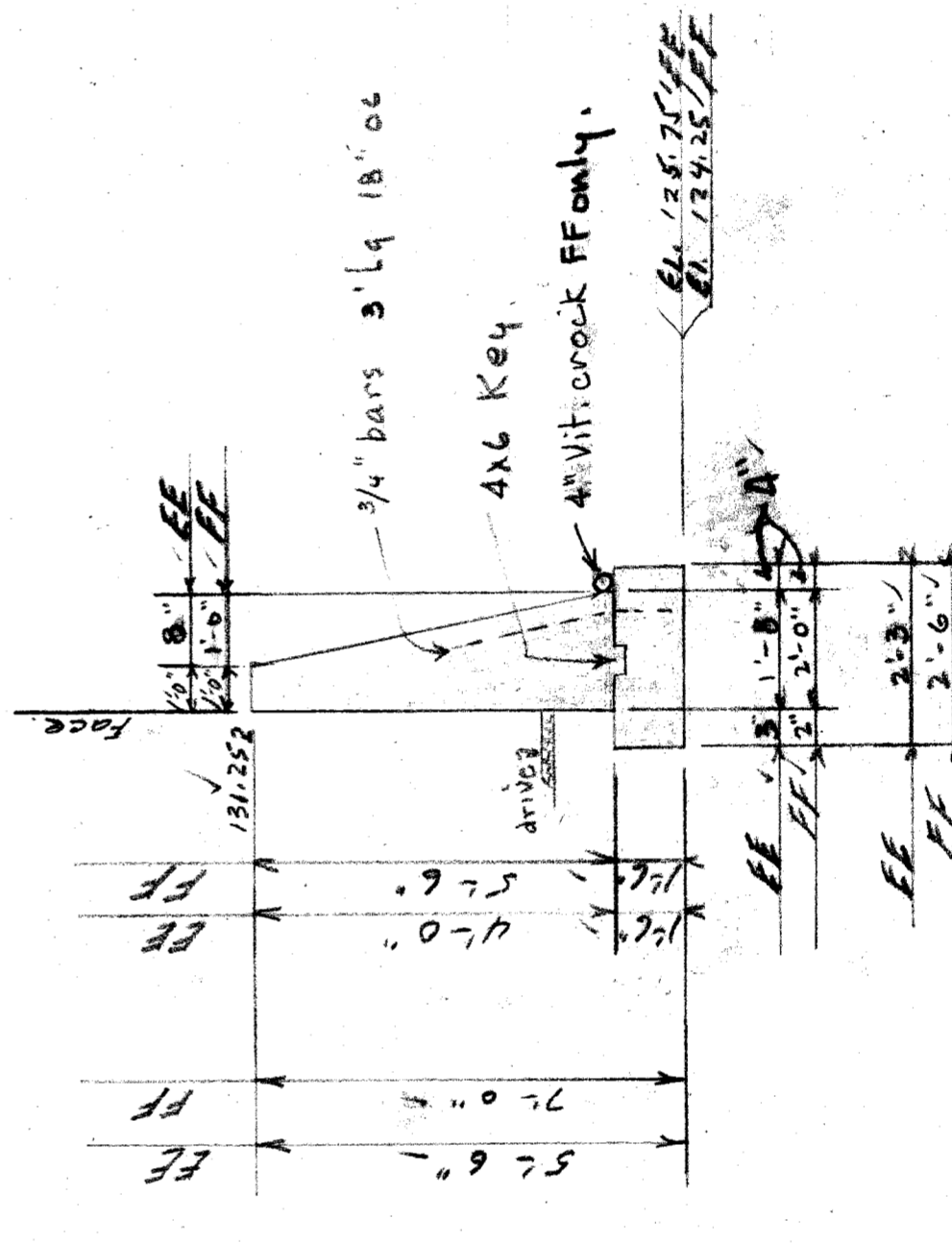
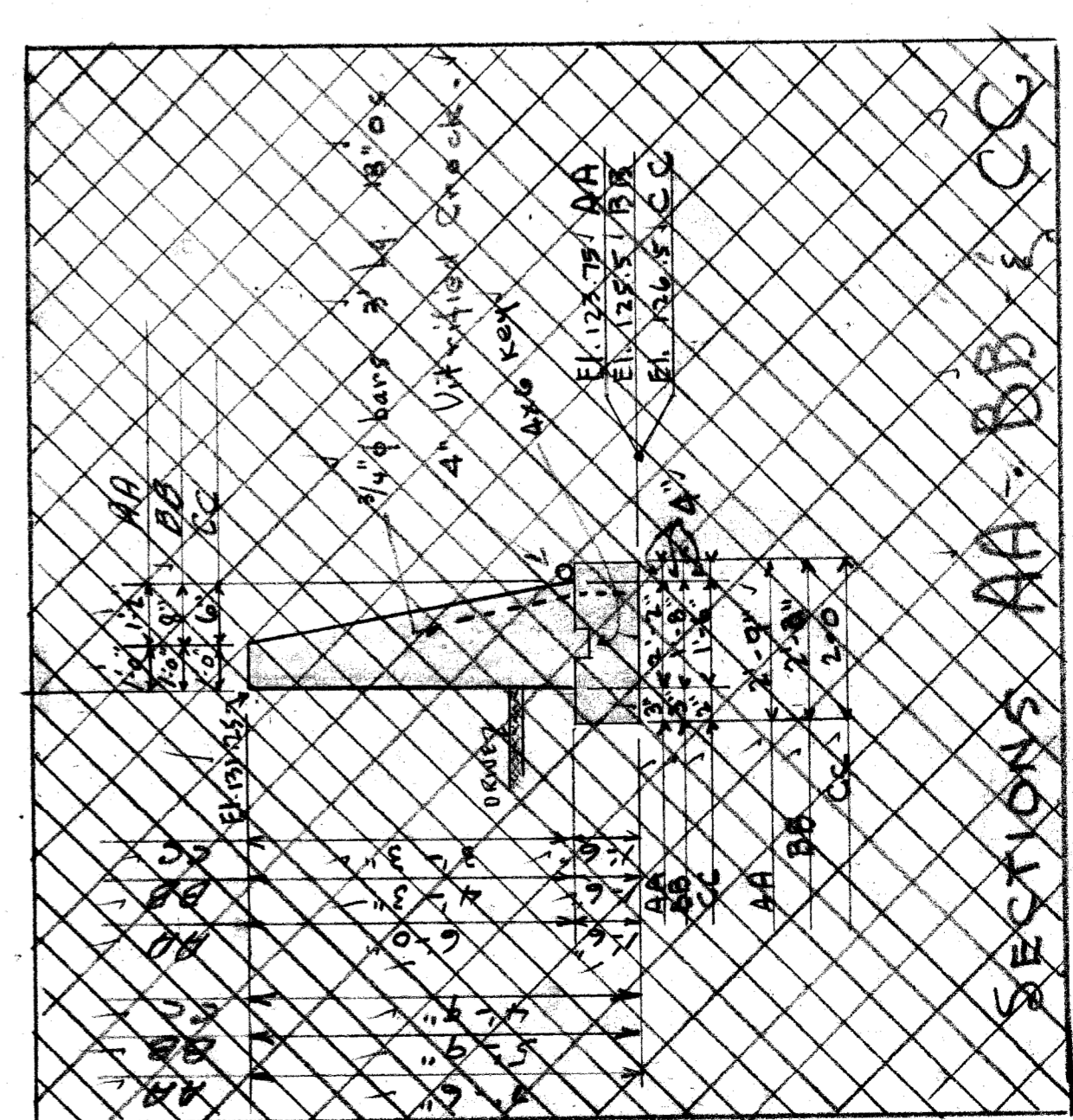
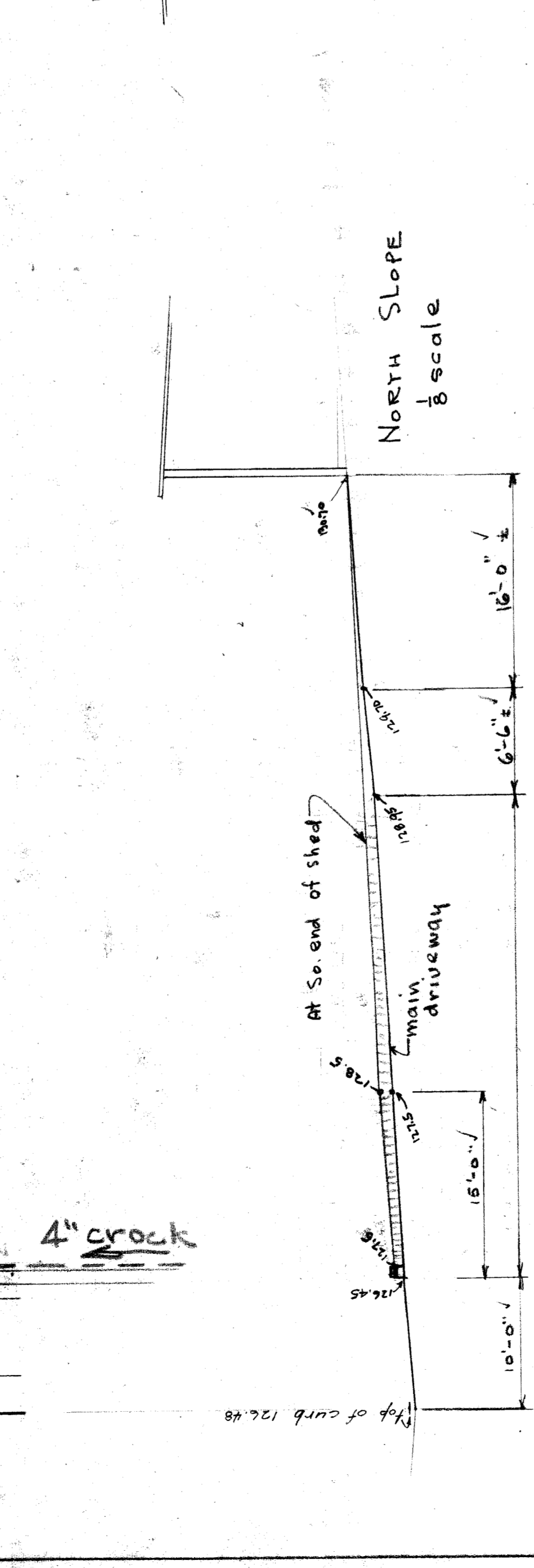
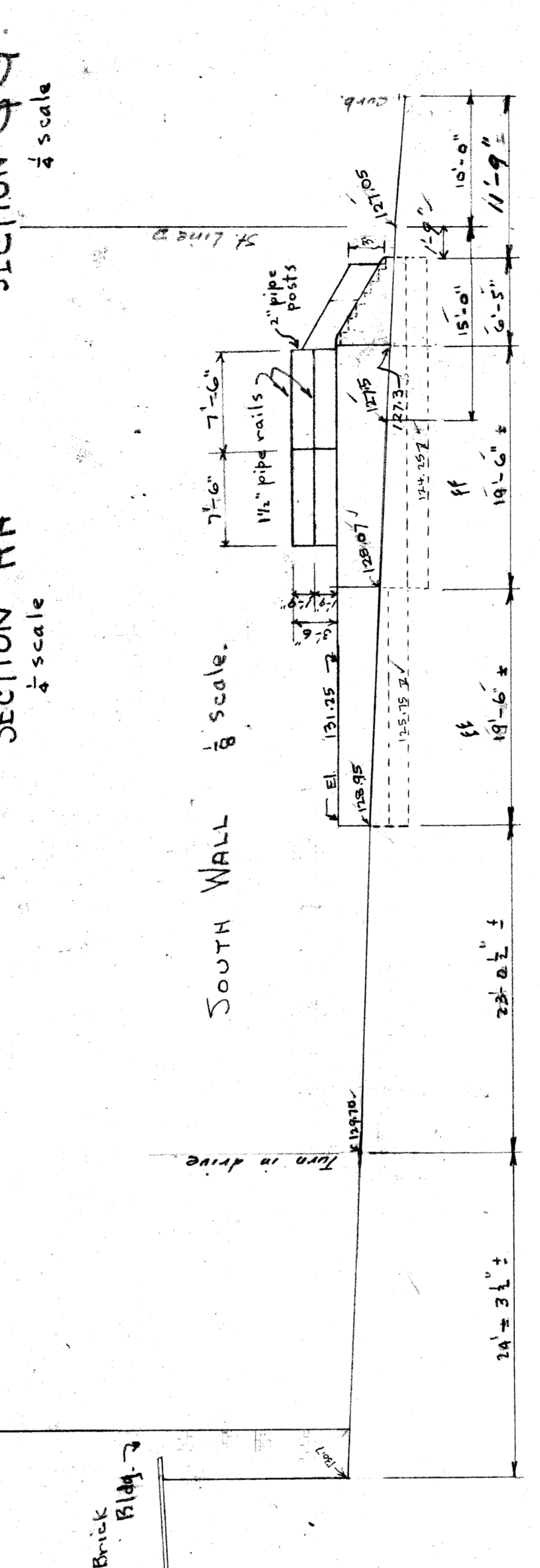
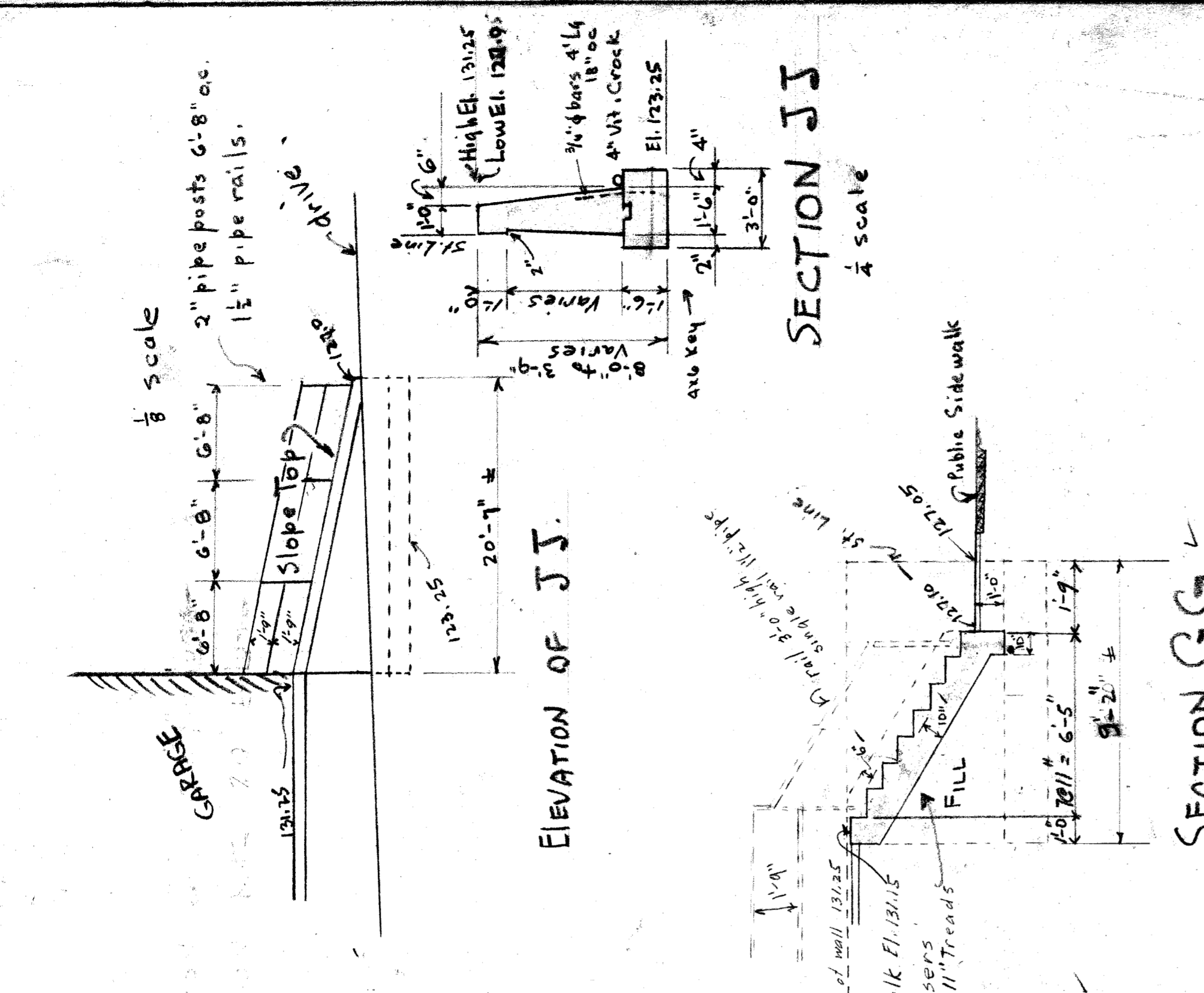
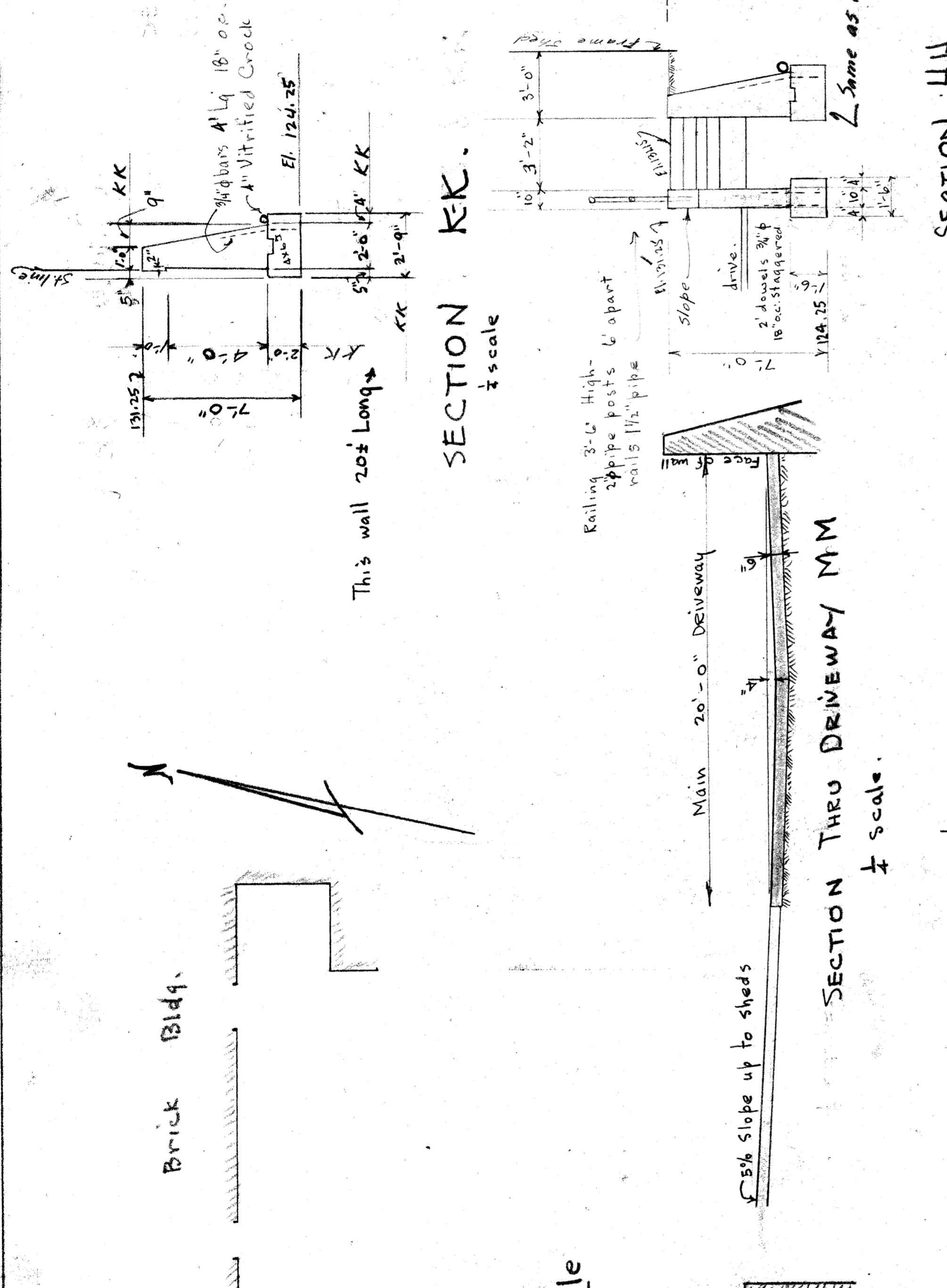
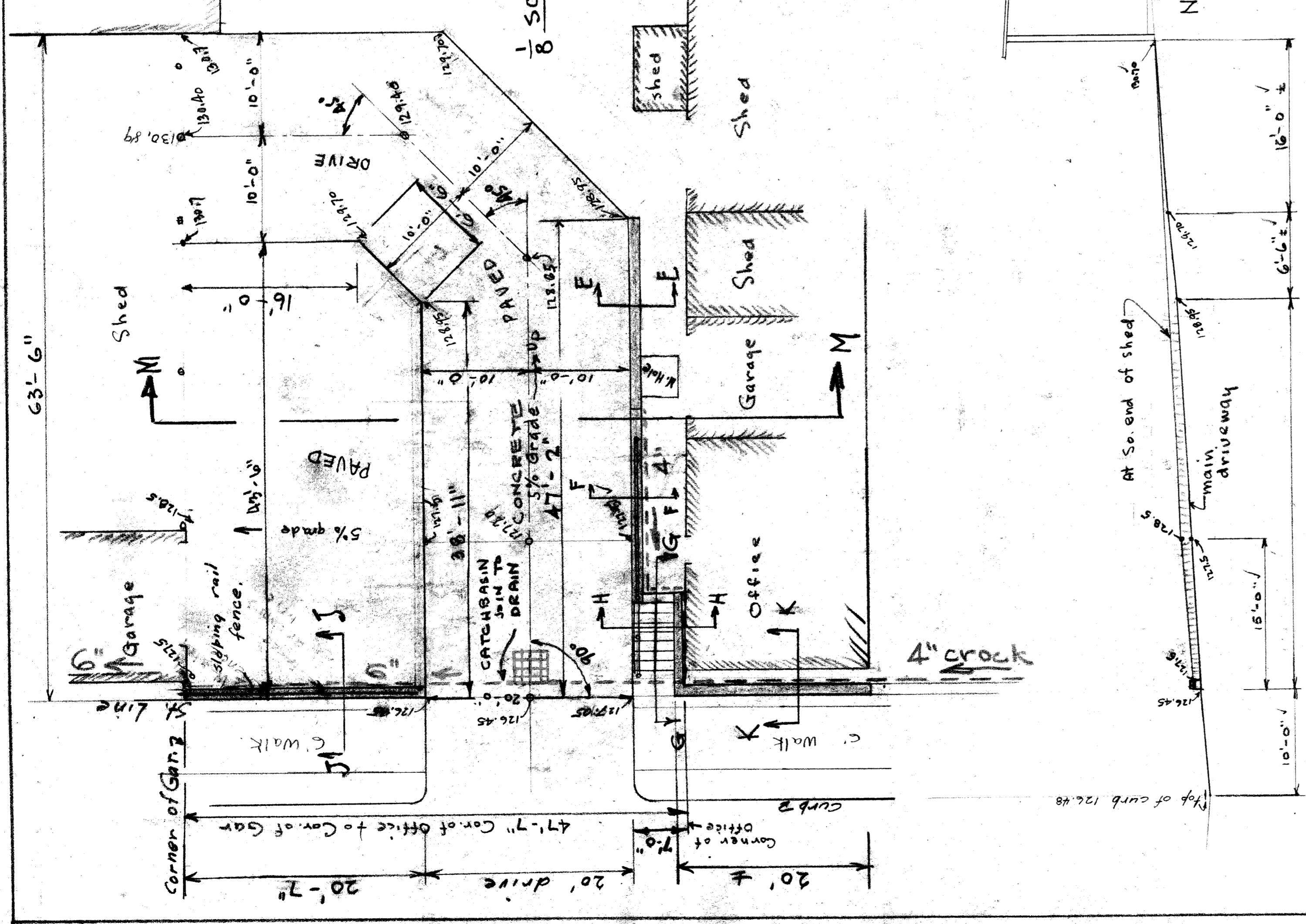
RAILING DETAILS
Scale 1/4" = 1'-0"



TYPICAL SECTION SHOWING WAJNSCOTING OF CONCRETE WALLS
Scale 1/4" = 1'-0"

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
OFFICE OF CITY ENGINEER
DIVISION OF GRADE SEPARATION BRIDGES
RELOCATION OF ENTRANCE FOR VICTOR FENINSULAR CO.

Scale as indicated
Drawn: C.M.K.
Checked by:
Nov. 24, 1926.
File XU 18-6



NOTES:
 All exposed corners to be chamfered to 1"
 All concrete mix to be 1:2:4 - walls, only
 Back of walls to receive 2 brush coats
 of Asphalt waterproofing
 Connect all drains to sewer
 Crack joints to be covered with tar paper.
 All concrete paving 6" thick - 1:2:4 mix

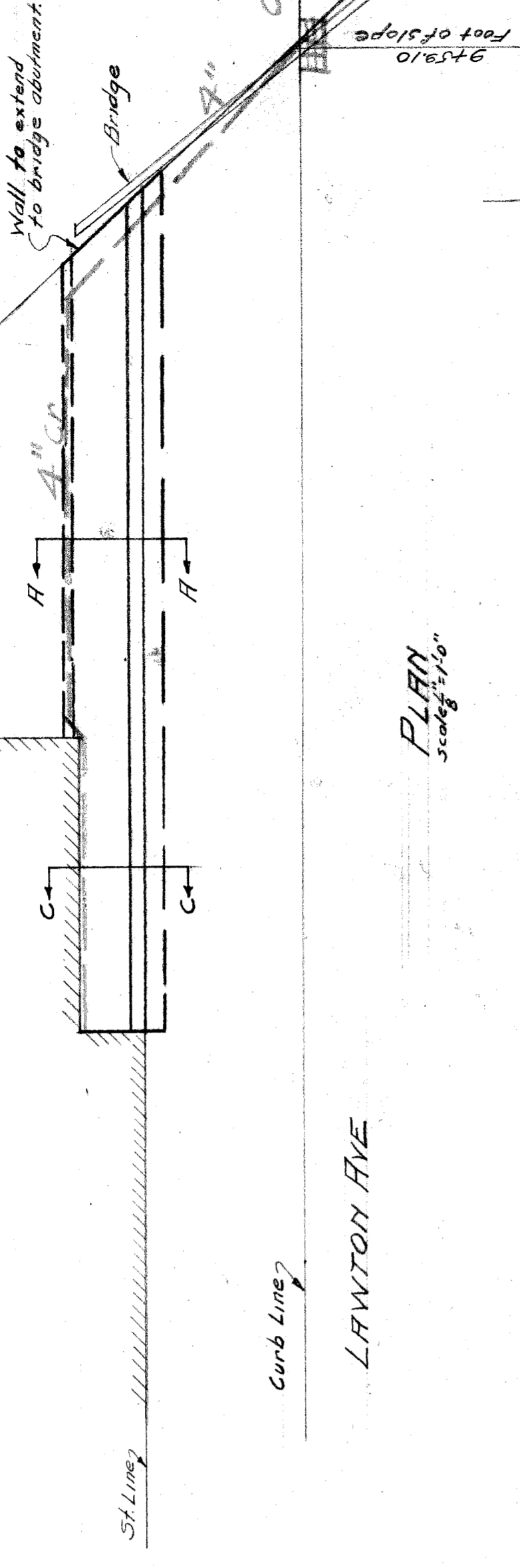
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 OFFICE OF CITY ENGINEER -
 DIVISION OF GRADE SEPARATION & BRIDGES -
DRIVE & WALLS TO MICHIGAN
PRESSED BRICK CO. ON THE
EAST SIDE OF LAWTON
 SOUTH OF R.R. ROW. August 1926
 Scales as noted.
 Revised 8/23/26
 R.S. 8/13/26
 Rail Rev. 8-25-26

File XU 18-7
MCRE



GENERAL MOTOR CO'S PROPERTY

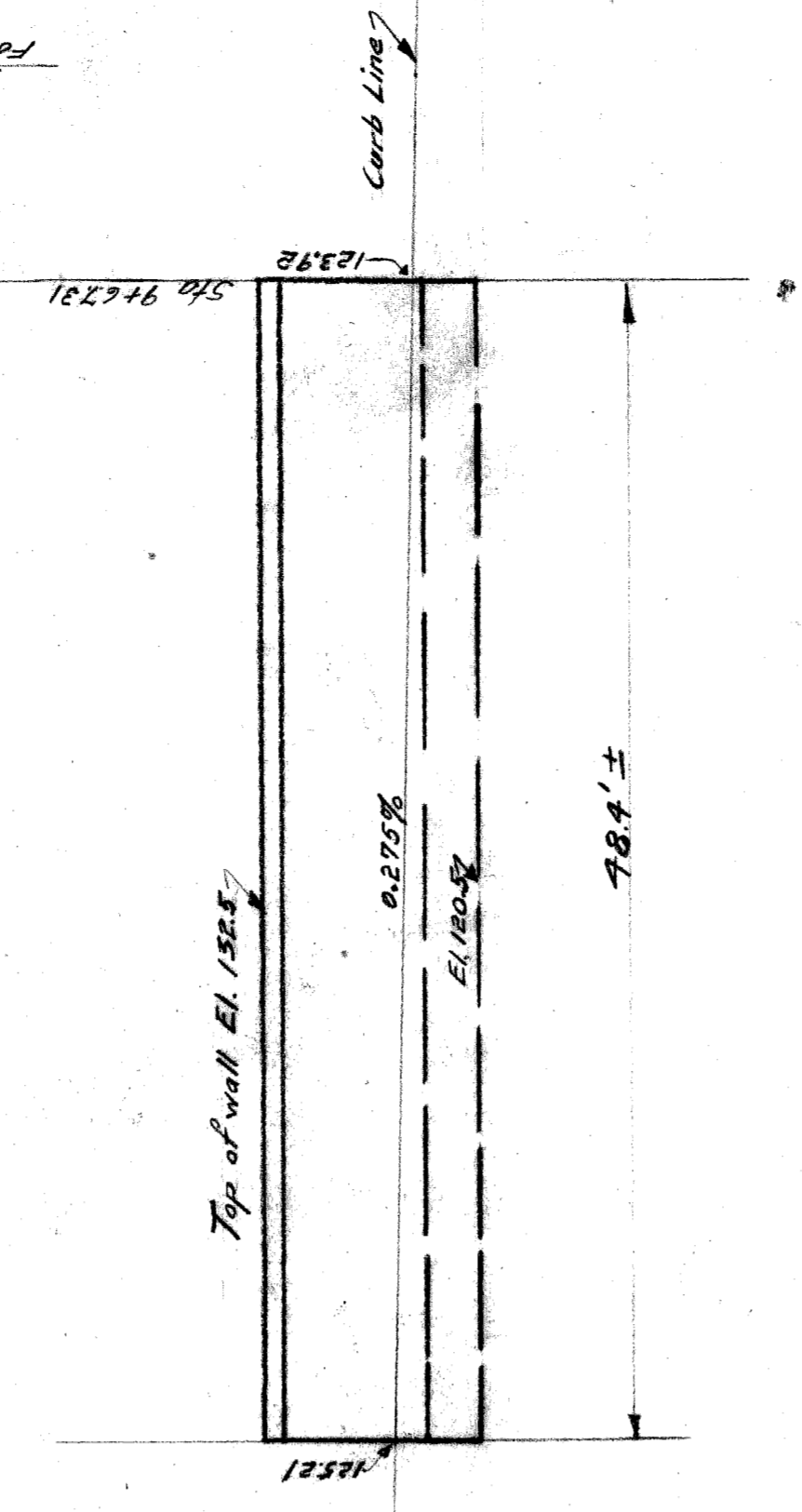
RAILROAD RIGHT OF WAY LINE



PLAN
Scale 1/2" = 1'-0"

LAWNTON AVE

ELEVATION
Scale 1/2" = 1'-0"



LAWNTON AVE APPROACH WALL EAST SIDE OF STREET

GENERAL NOTES

Drain crock to be connected to sewer.
Chamfer all exposed edges 1".
Back of walls to receive two map coats of asphalt waterproofing.

CITY OF DETROIT
DIVISION OF GRADE SEPARATIONS & BRIDGES
EAST & WEST SIDE OF LAWNTON
NORTH OF R. OF W.

Scale as shown.

Drawn by C.W.K.

Checked by H.J.

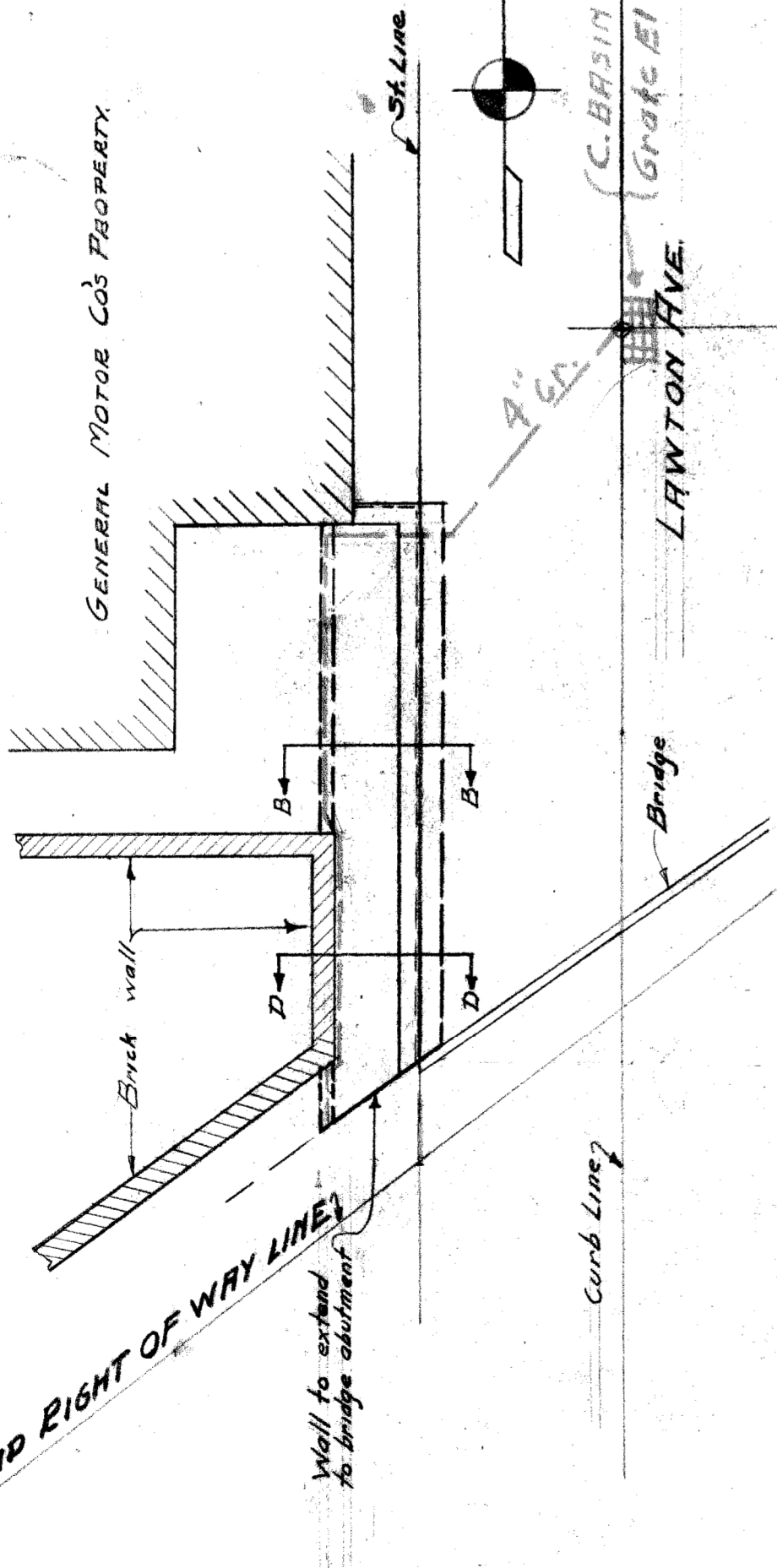
File XU 18-8

November 1926



GENERAL MOTOR CO'S PROPERTY

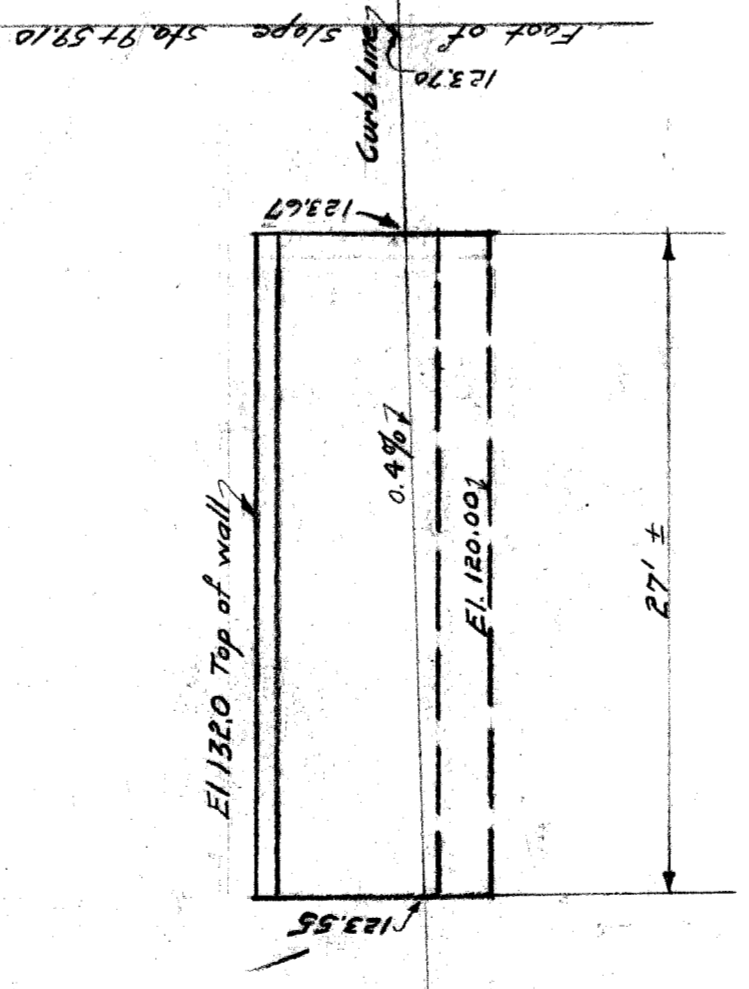
RAILROAD RIGHT OF WAY LINE



PLAN
Scale 1/2" = 1'-0"

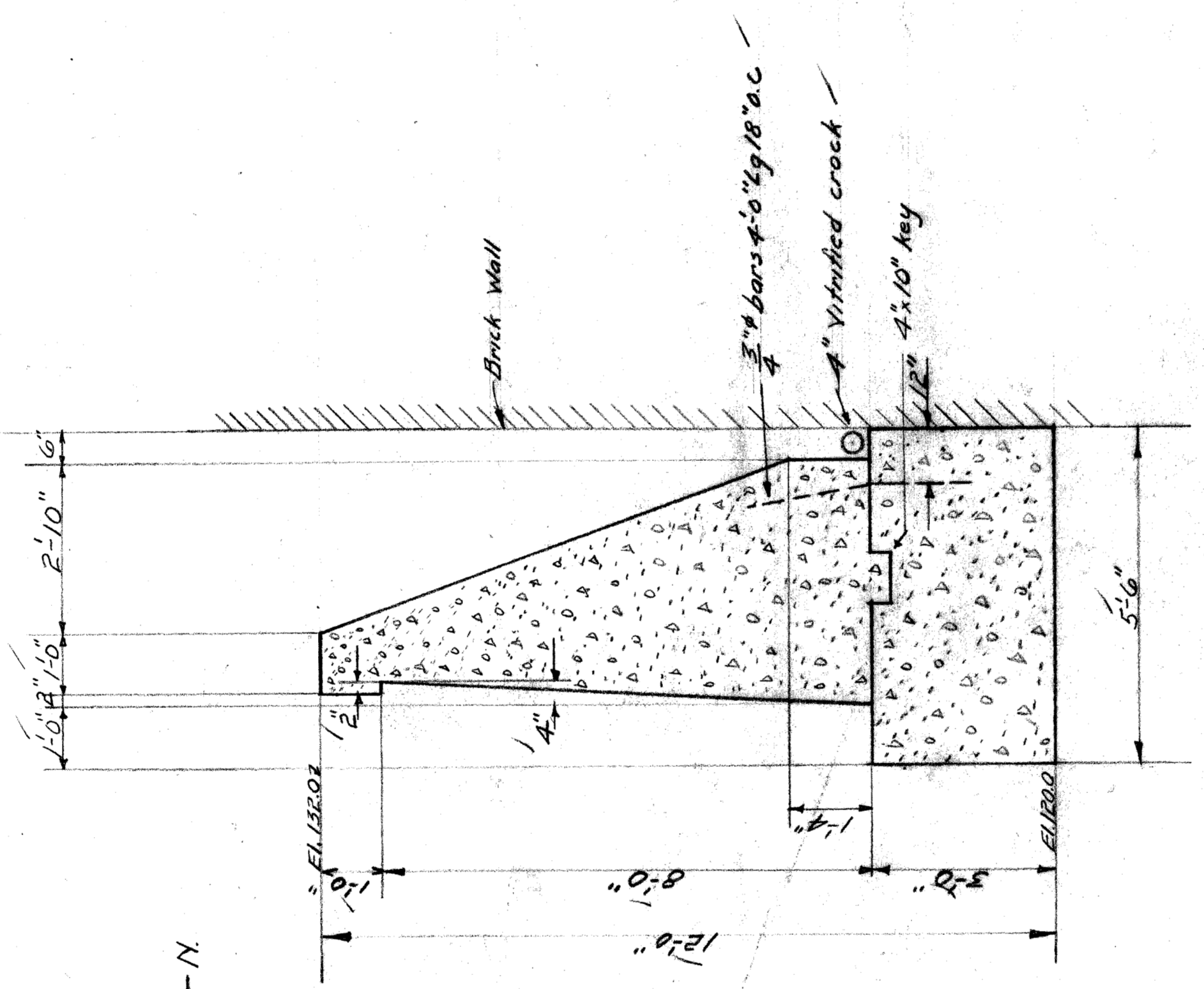
LAWNTON AVE

ELEVATION
Scale 1/2" = 1'-0"

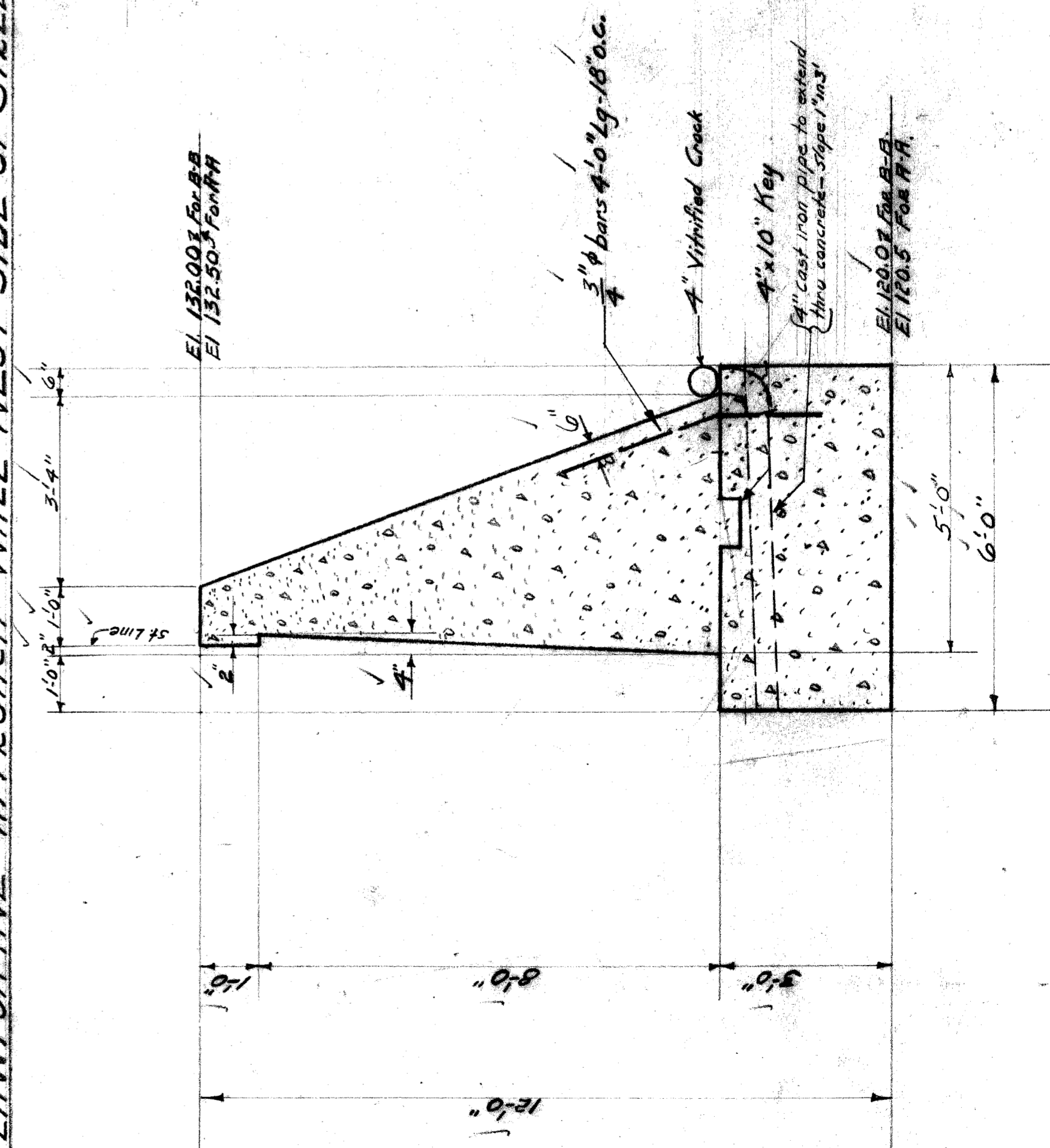


LAWNTON AVE APPROACH WALL WEST SIDE OF STREET

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

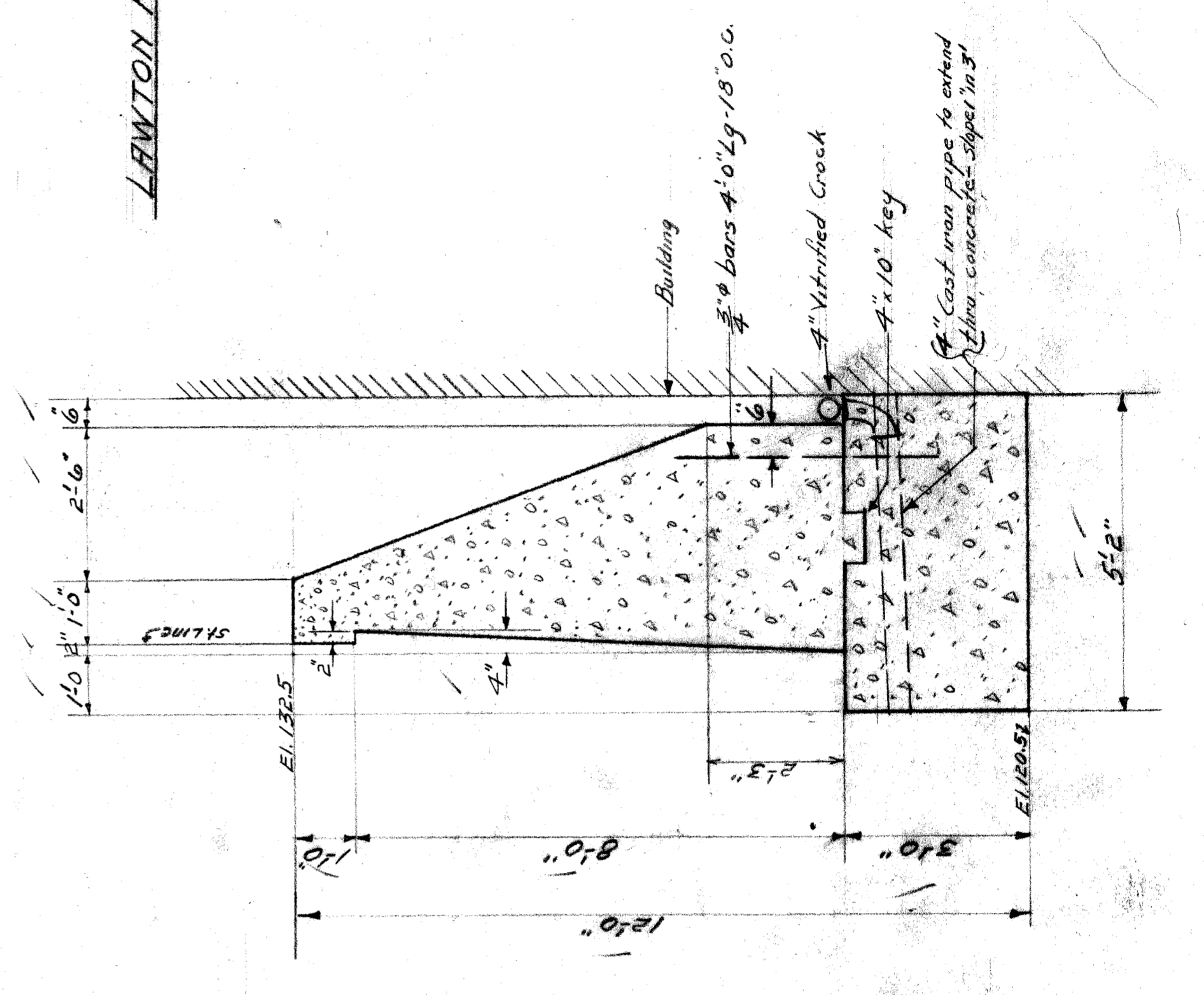


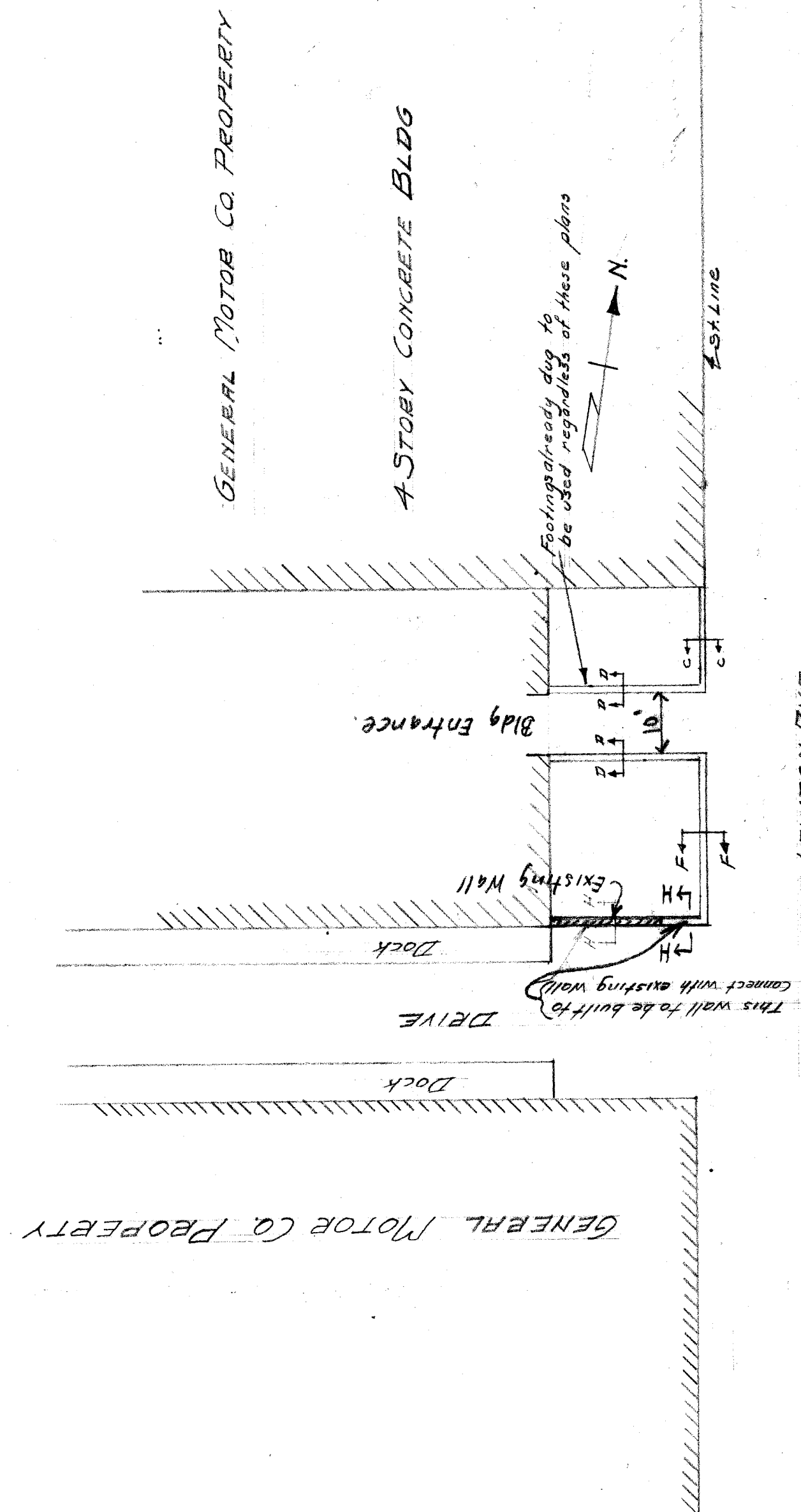
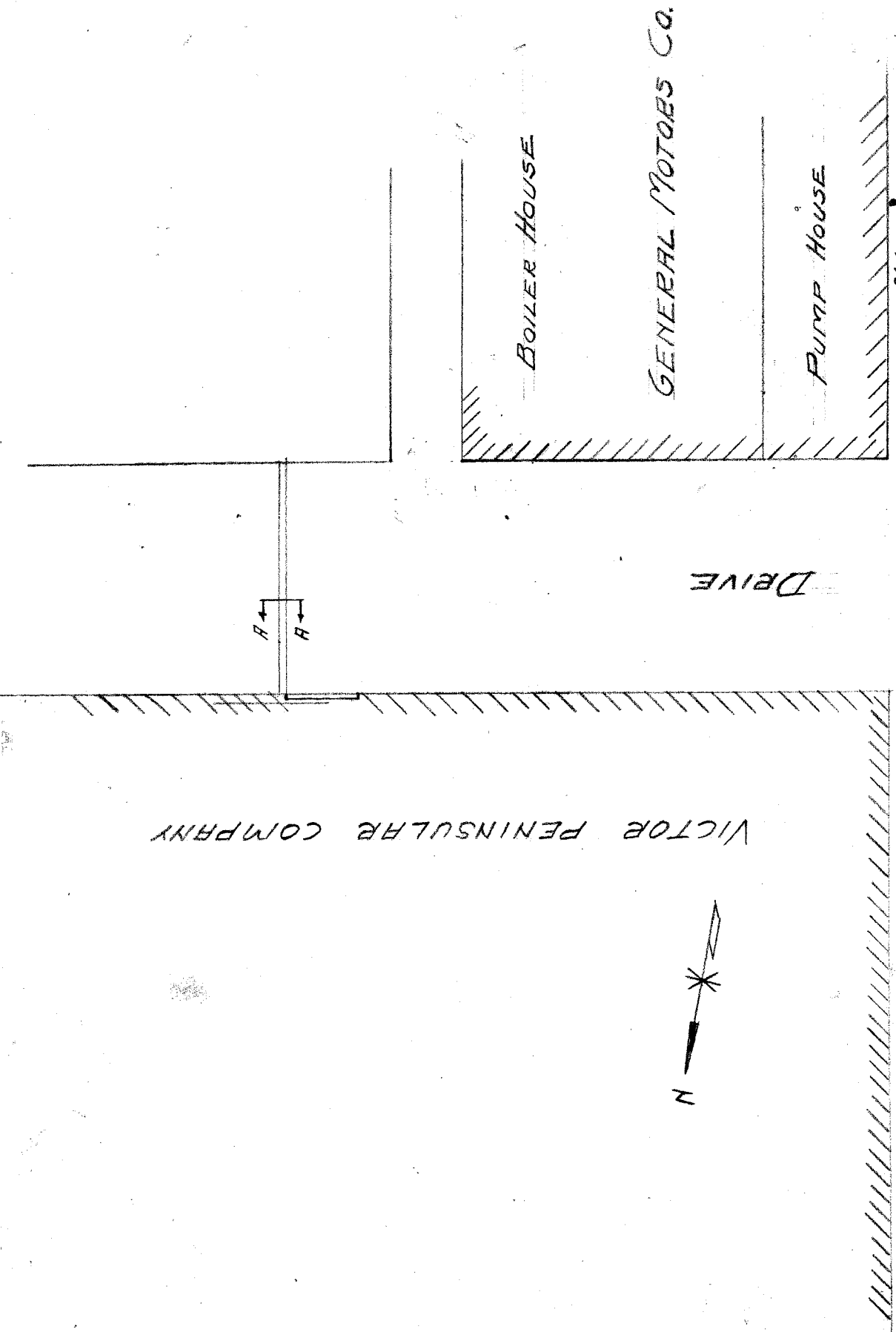
SECTION BB & AA
Scale 1/2" = 1'-0"



SECTION BB & AA
Scale 1/2" = 1'-0"

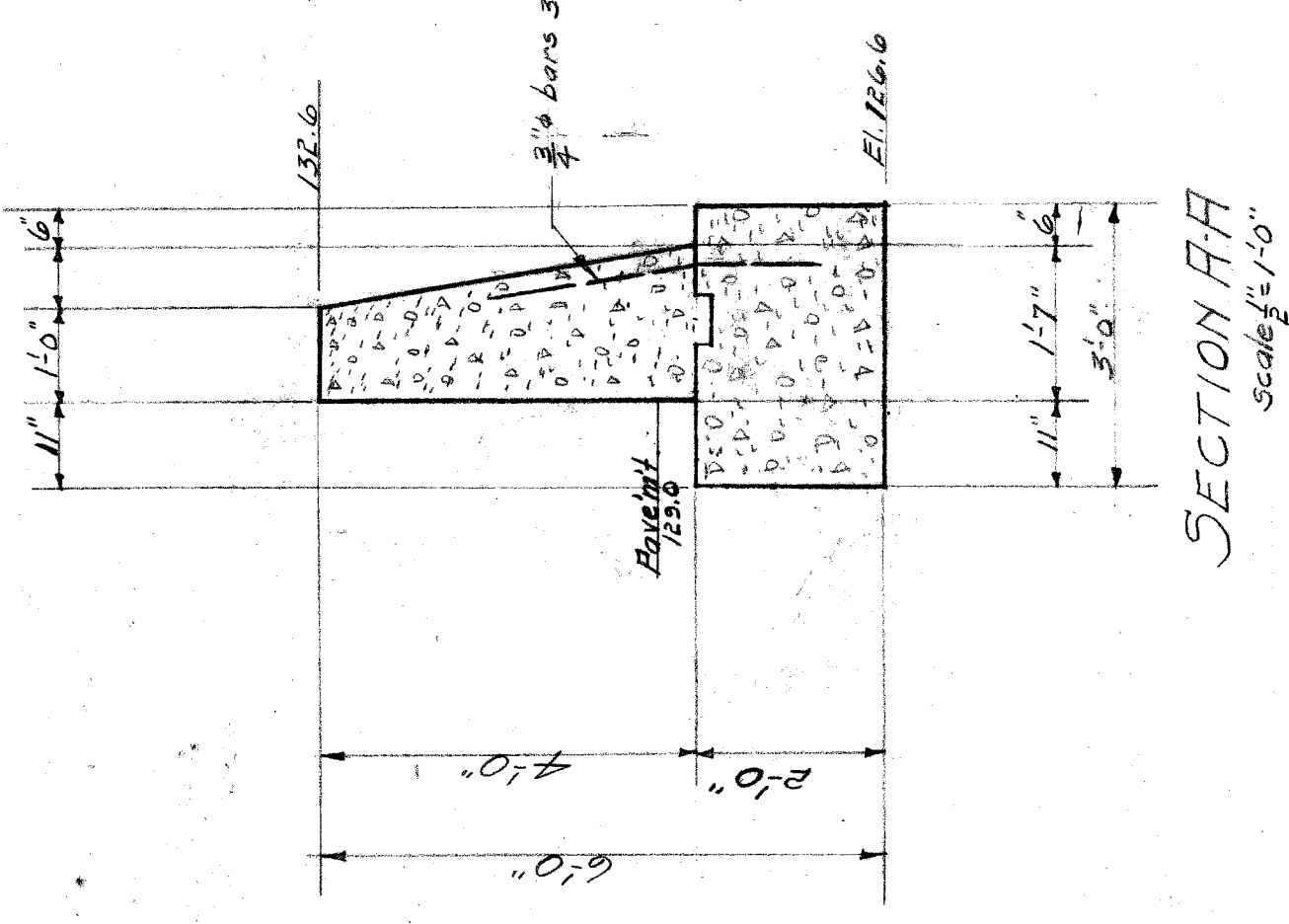
SECTION C-C
Scale 1/2" = 1'-0"



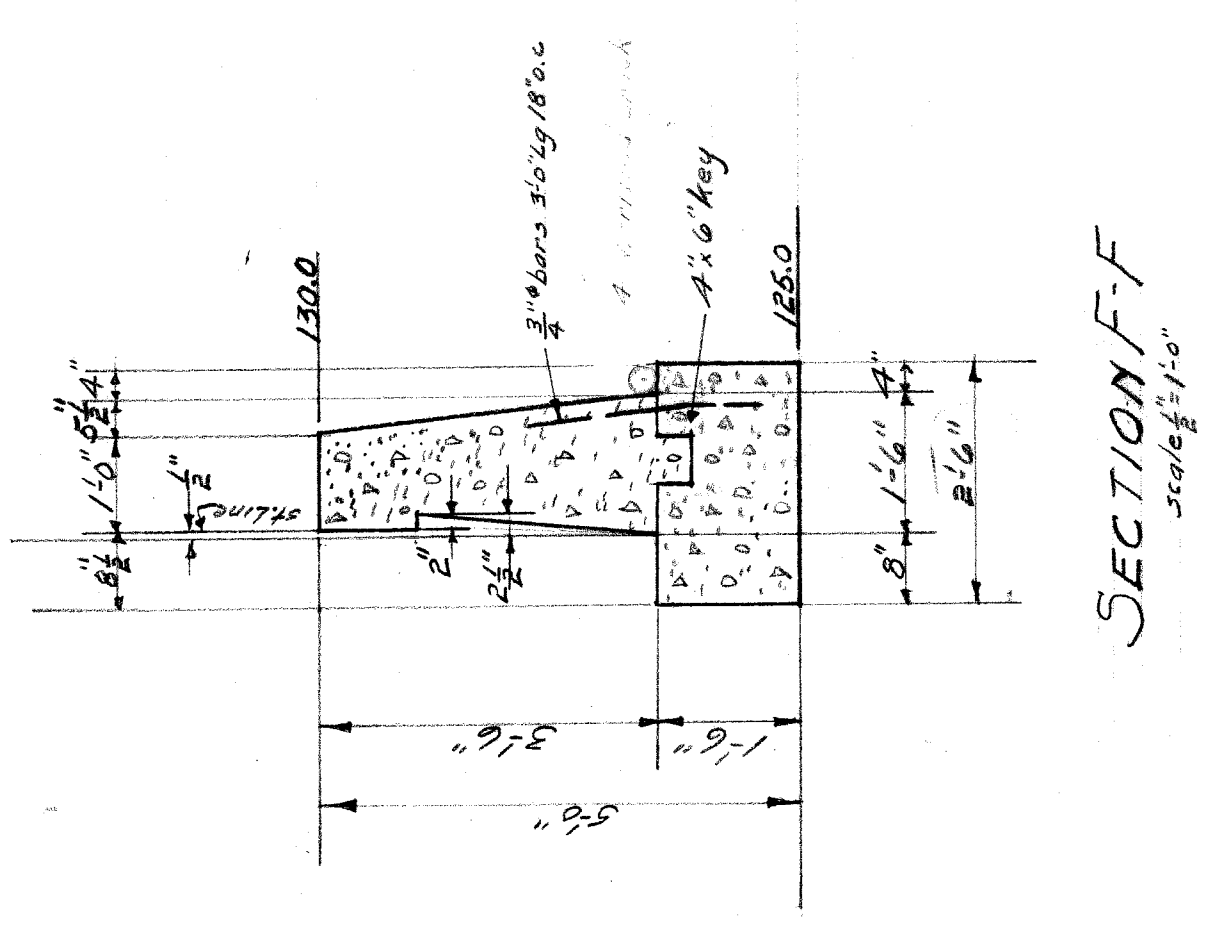


PLAN
Scale 1/4" = 1'-0"

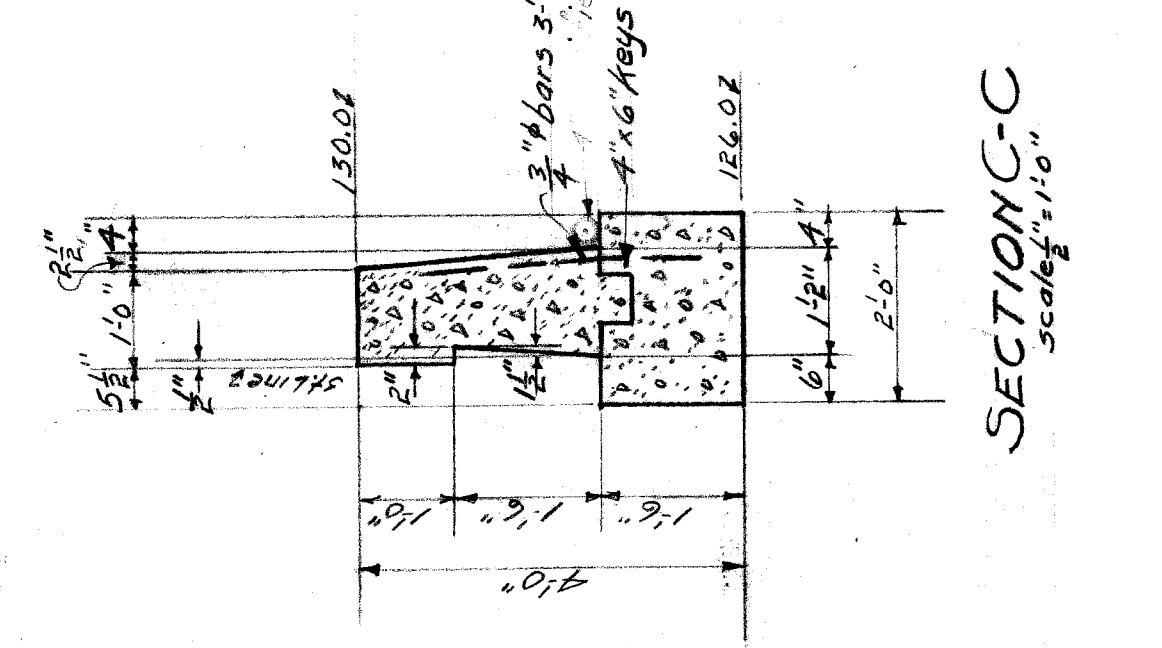
PLAN
Scale 1/4" = 1'-0"



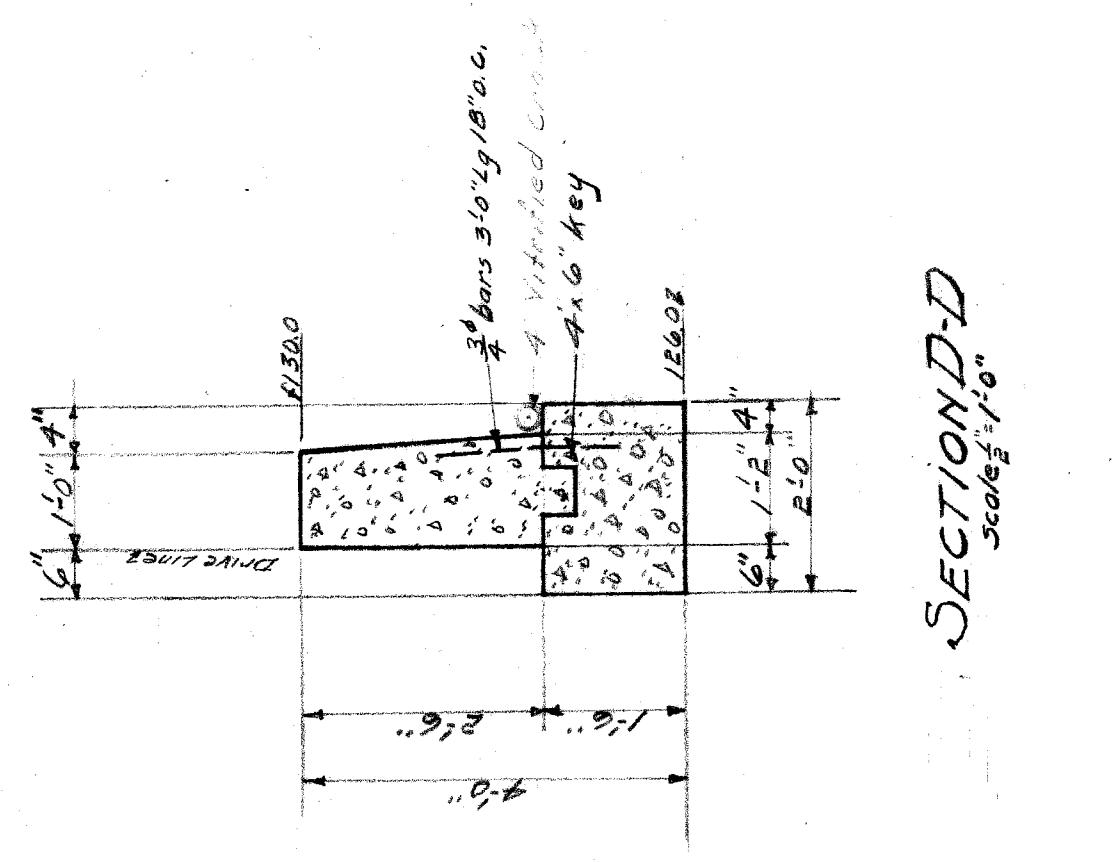
SECTION AA
Scale 1/4" = 1'-0"



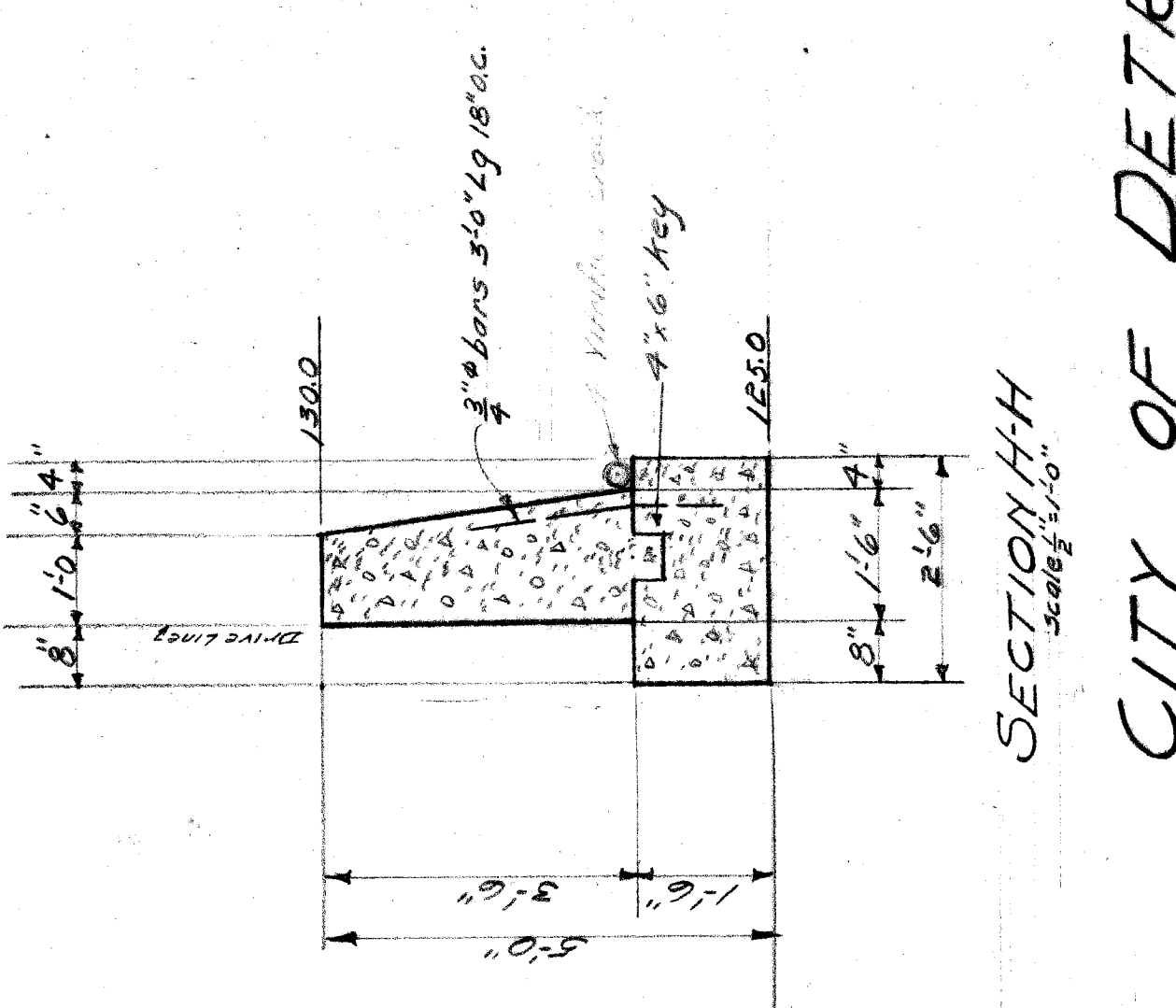
SECTION FF
Scale 1/4" = 1'-0"



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



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

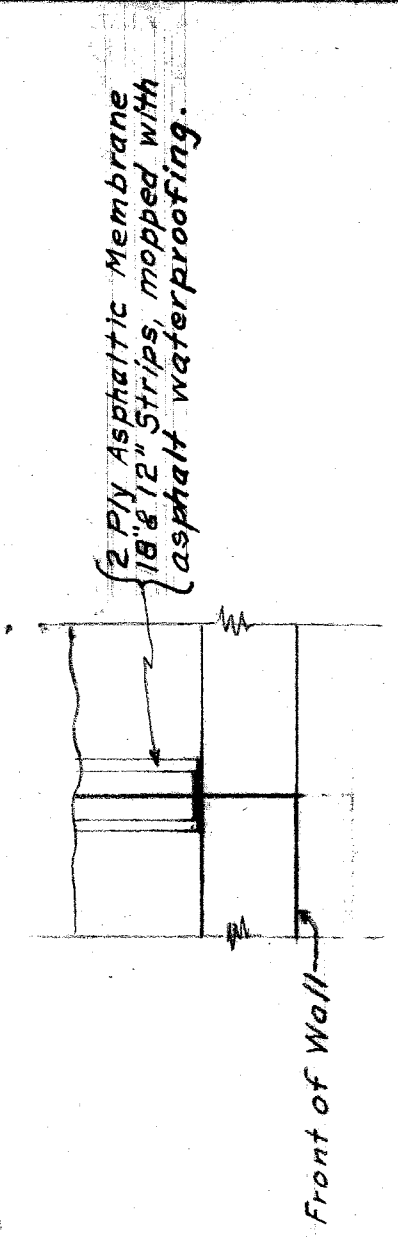
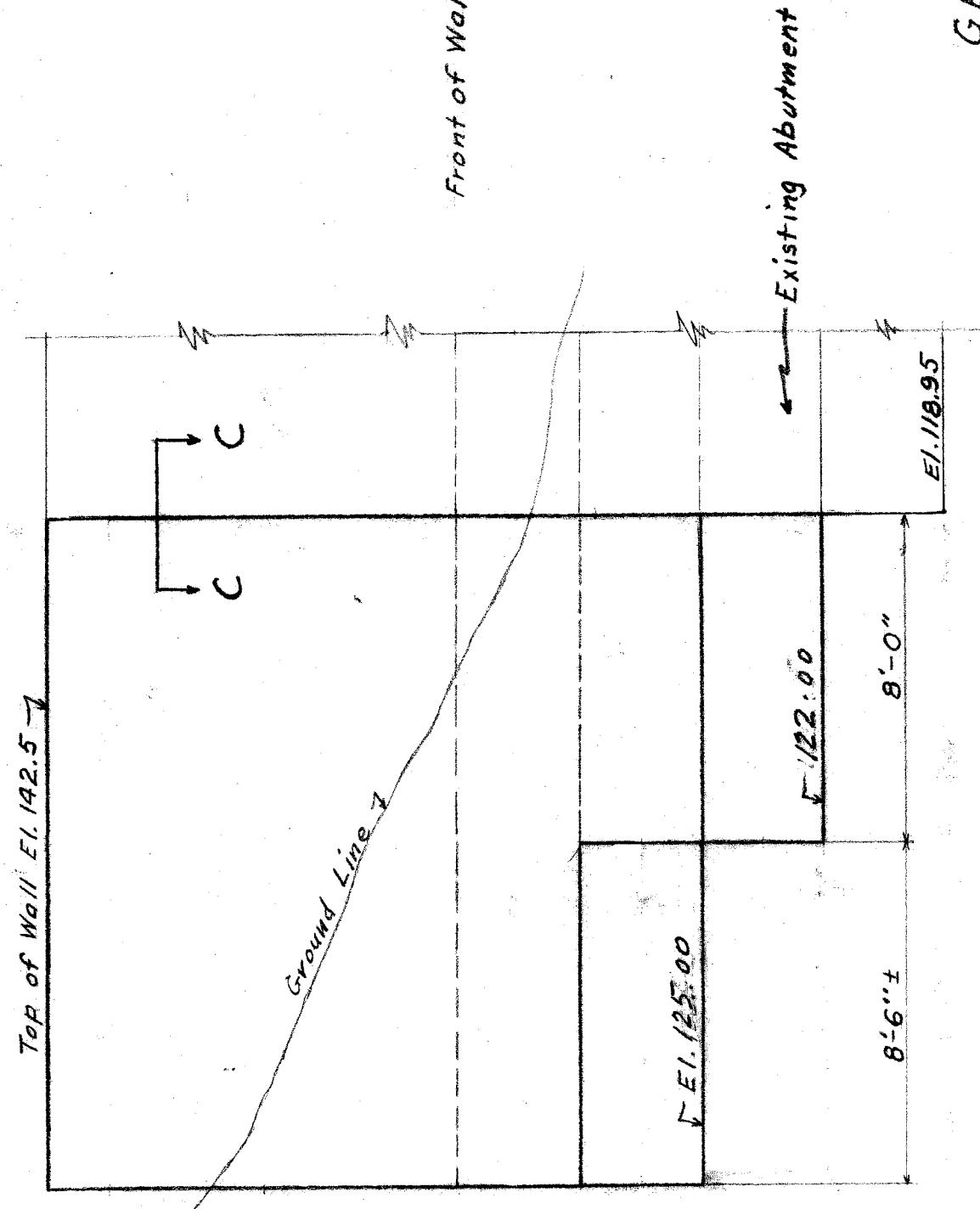
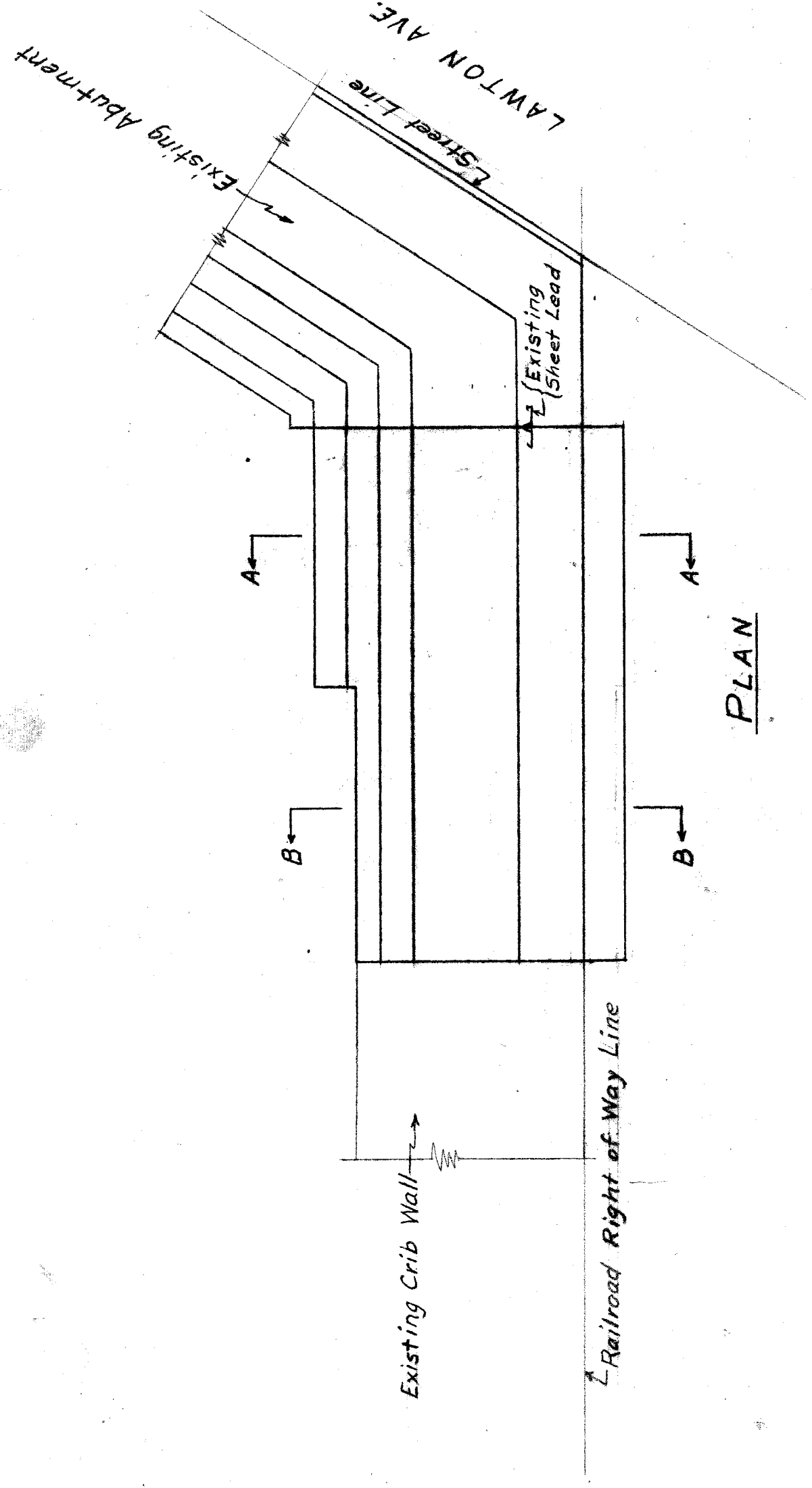


SECTION H-H
Scale 1/4" = 1'-0"

GENERAL NOTES
Concrete, Min. 1:2:4
Back of walls to receive two brush coats of asphalt waterproofing
Chamfer all exposed edges 1"

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
OFFICE OF CITY ENGINEER
DIVISION OF GRADE SEPARATION & BRIDGES
WALLS ON EAST & WEST SIDE
OF LAWTON AVE N. OF R.R. OF W.

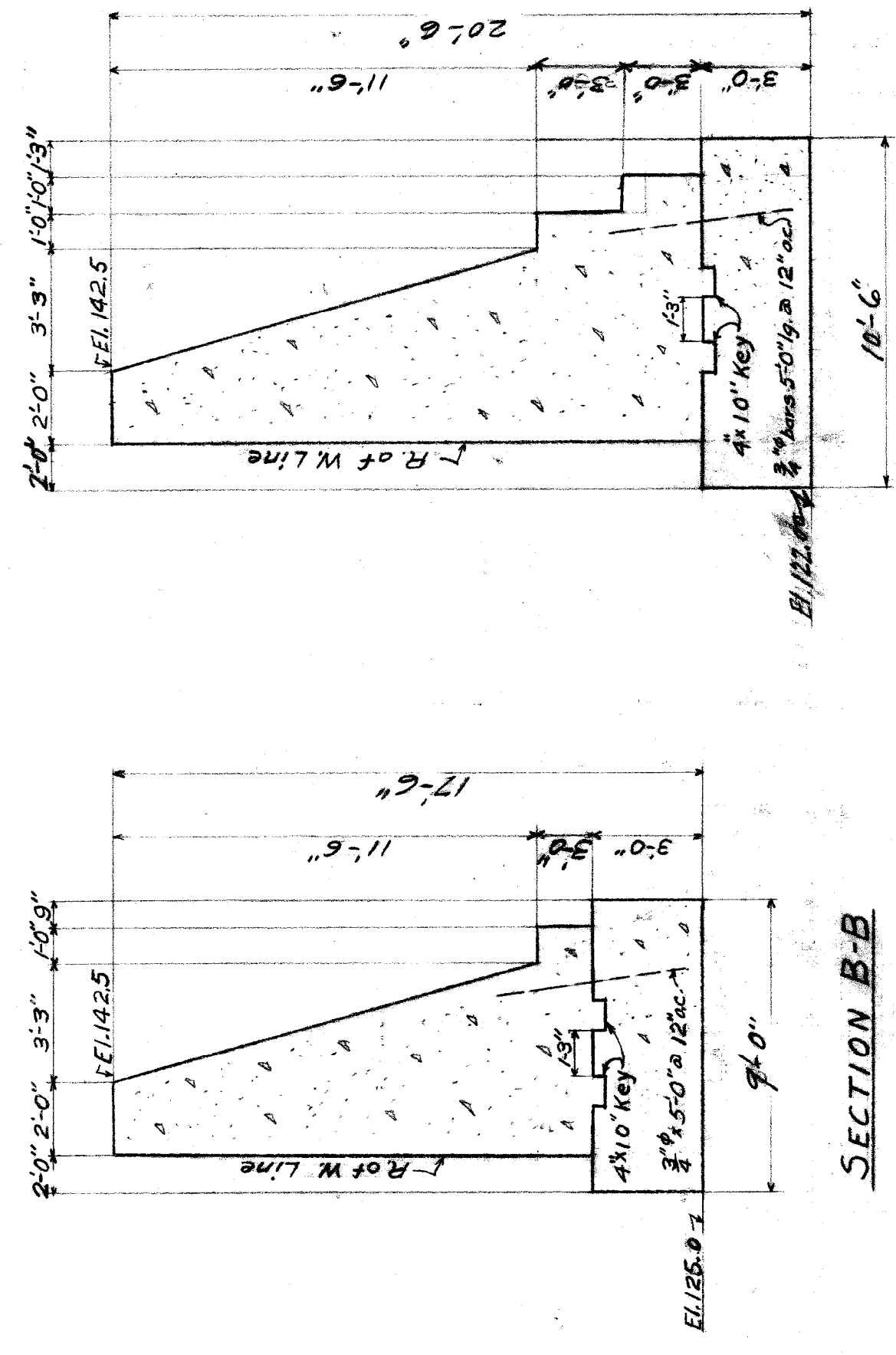
Scale as indicated
Drawn by C.W.K.
Checked by R.A.
November 1926
File XU 18-9



NOTE :-
Front and back of wall shall conform to existing wing wall of abutment.

GENERAL NOTES
Chamfer all exposed edges 1"
Back of walls to receive two mop coats of asphalt waterproofing.
Concrete mix 1:2:4.

ELEVATION



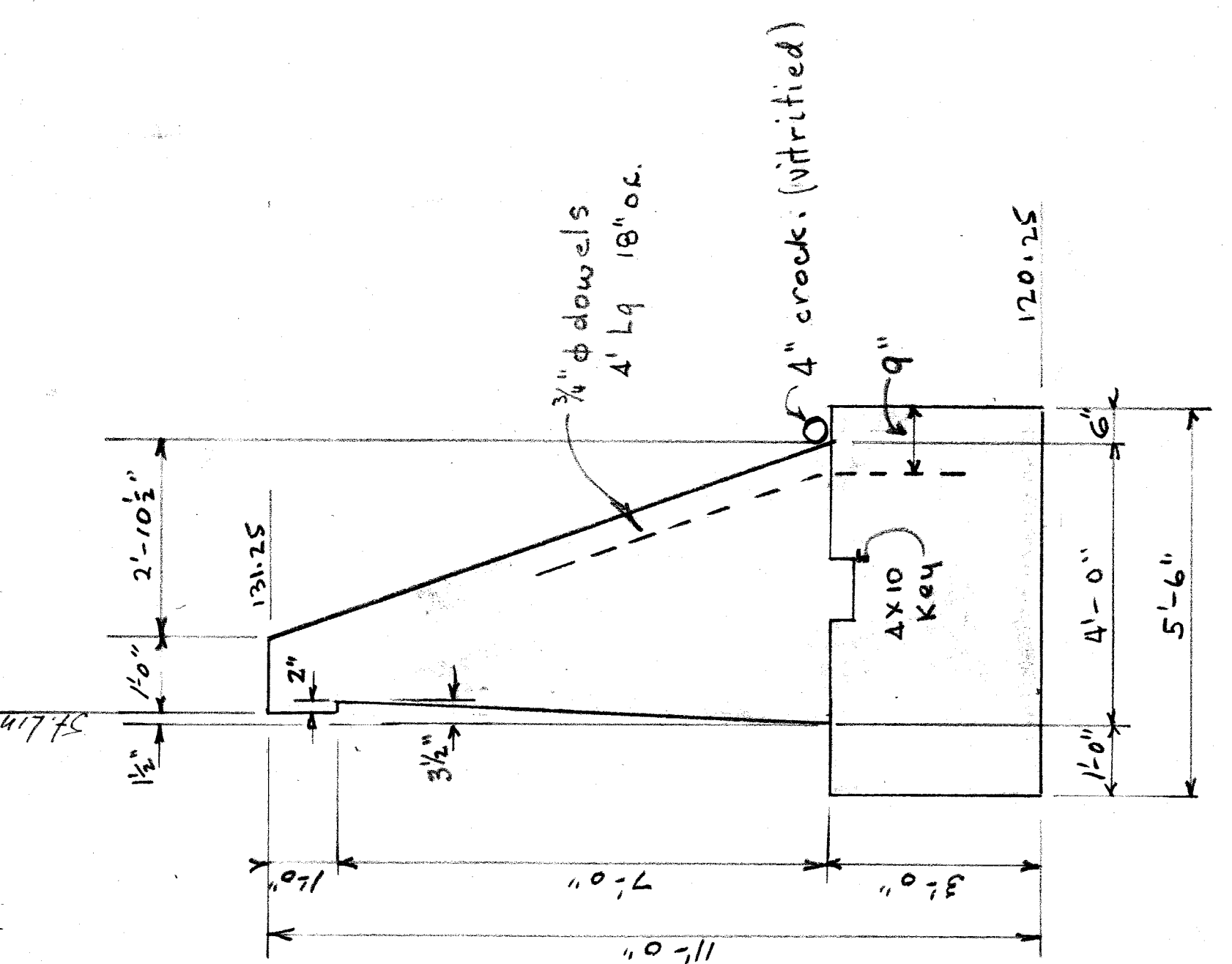
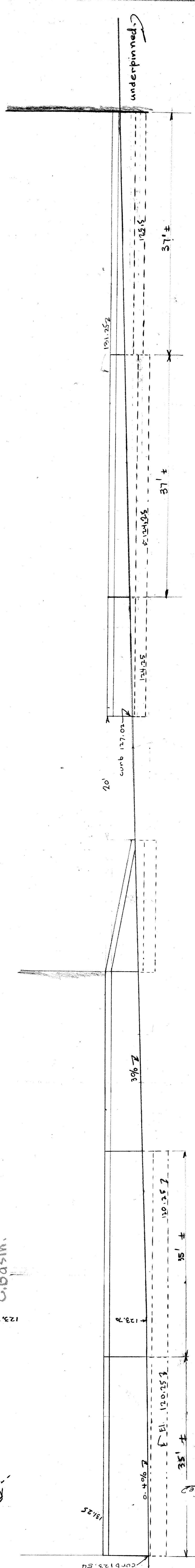
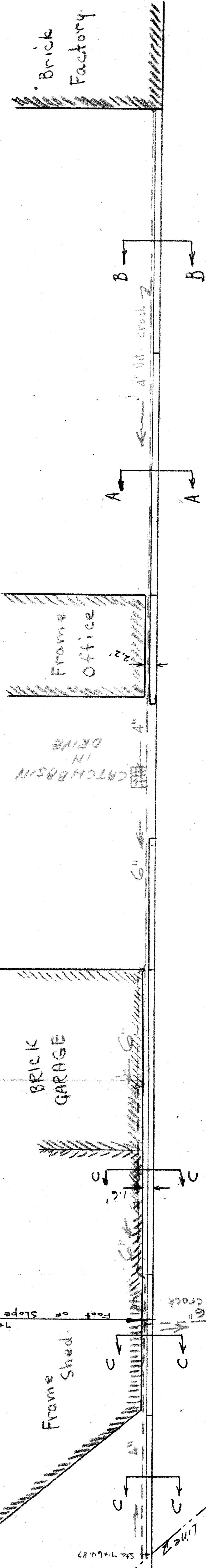
Quantities:
Foundation Concrete : 17.9 cu yds
Concrete above Footings : 43.3 " " "
Reinforcing steel : 122 pds.
Waterproof walls : 290 sq. ft.

CITY OF DETROIT
DIVISION OF GRADE SEPARATION & BRIDGES
LAWTON AVE.
RETAINING WALL NE. SIDE G.T.R.R. R.O.F.W.

Scale $\frac{1}{4}'' = 1'-0''$
Drawn by J.F.H.
Checked by R.S.
Revised: 4-5-27
March 25, 1927.

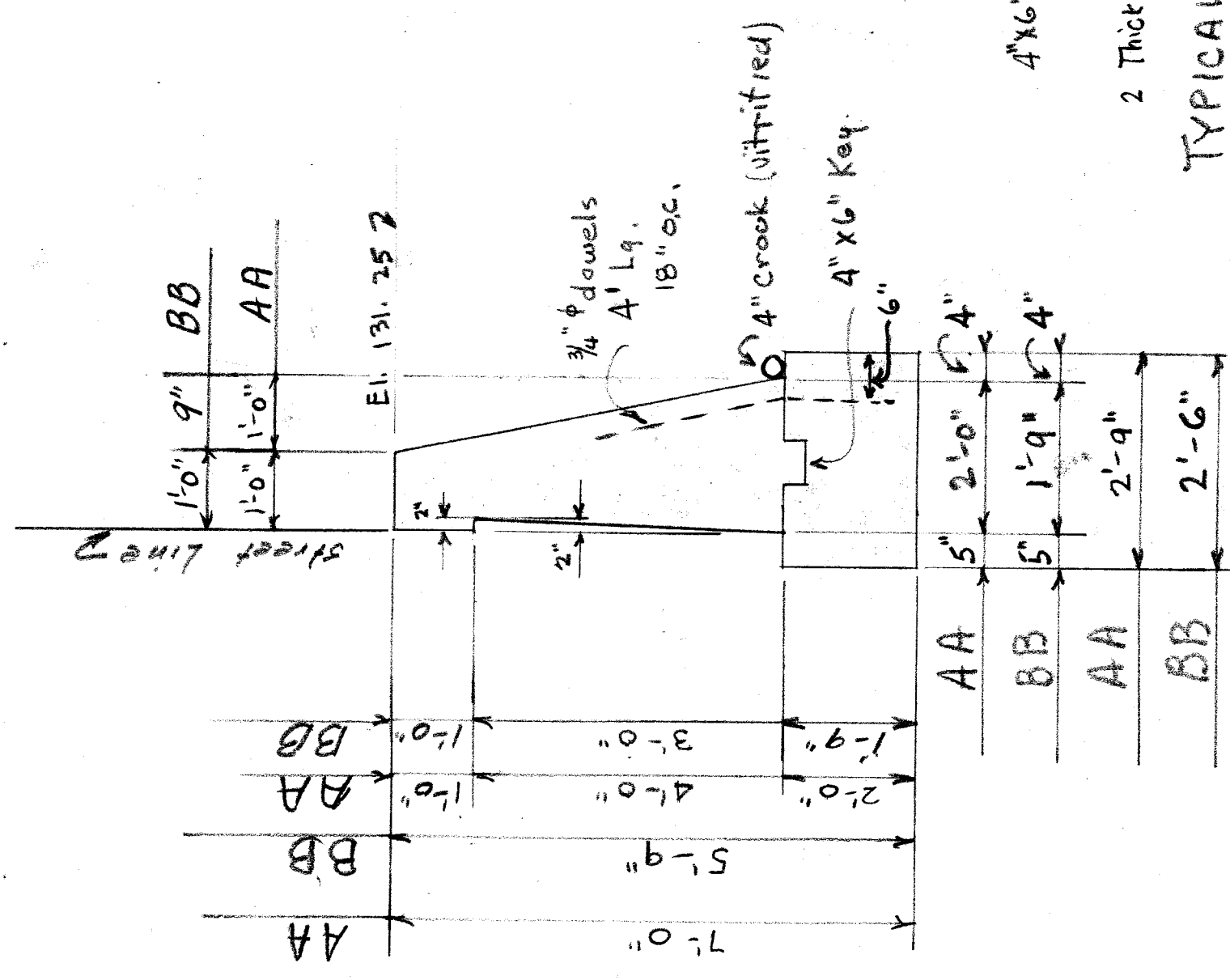
SECTION A-A

SECTION B-B

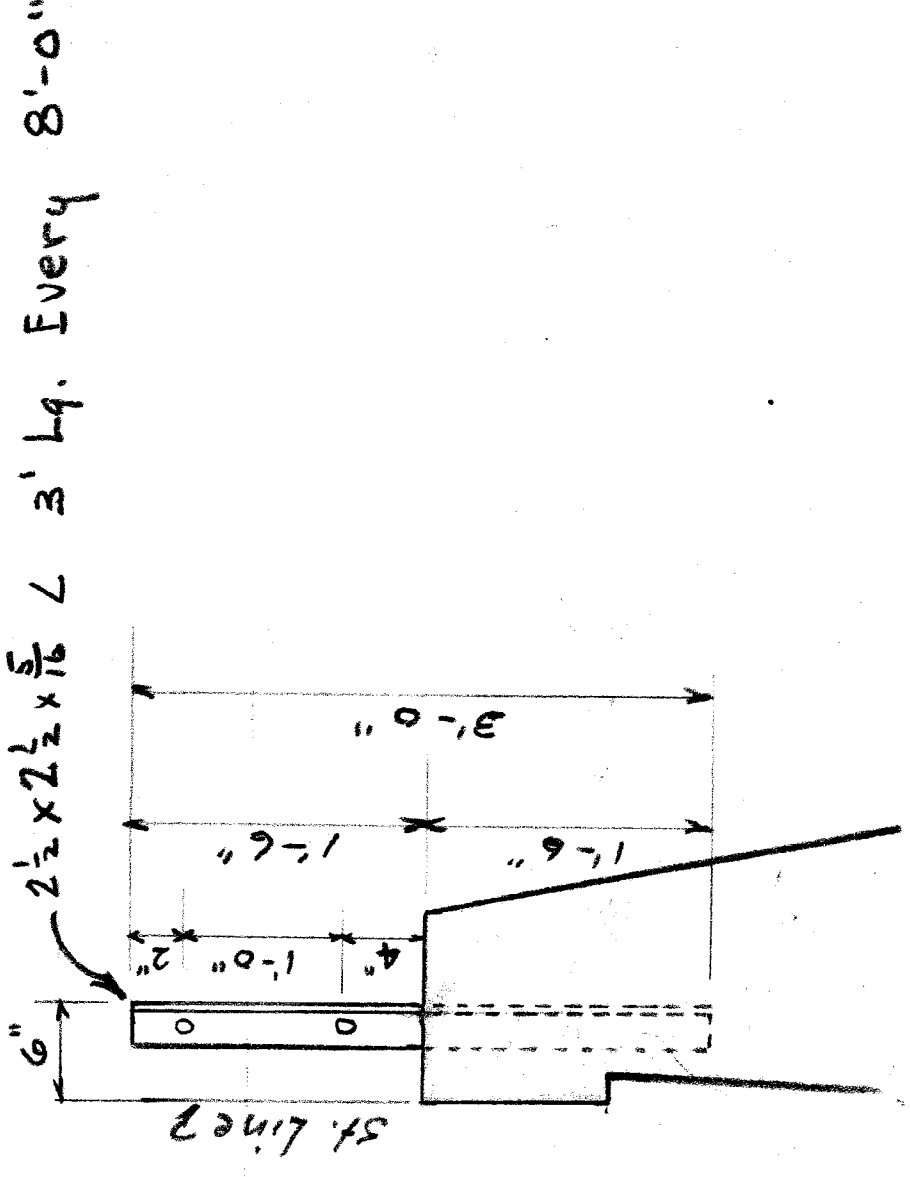


SECTION "CC"

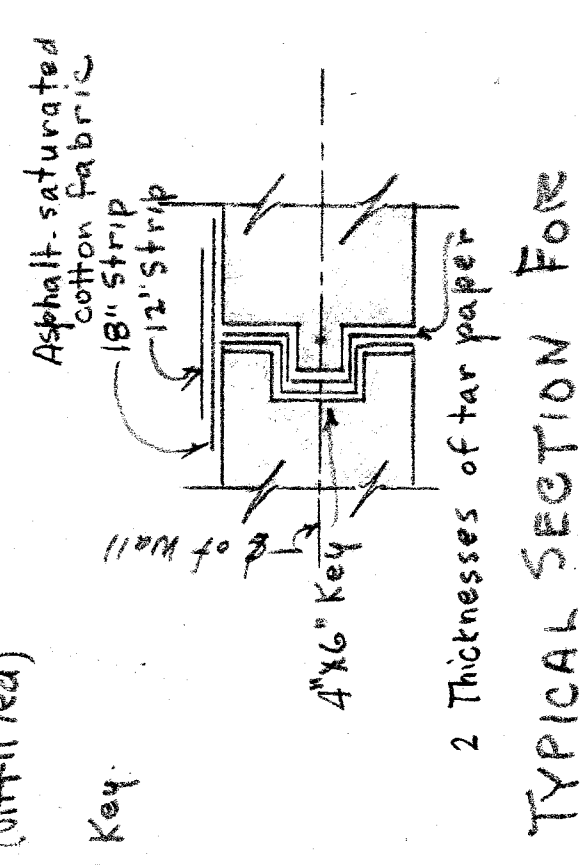
GENERAL NOTES.
 Drain Crack to be connected to sewer.
 Chamfer all exposed edges 1/4"
 Backs of all walks two mop coats asphalt waterproofing.



SECTIONS AA & BB.
 1/2" = 1'-0"



DETAIL OF FENCE ANCHOR
 1/2" = 1'-0"



TYPICAL SECTION FORM

VERTICAL KEYS AT EXPANSION JOINTS.

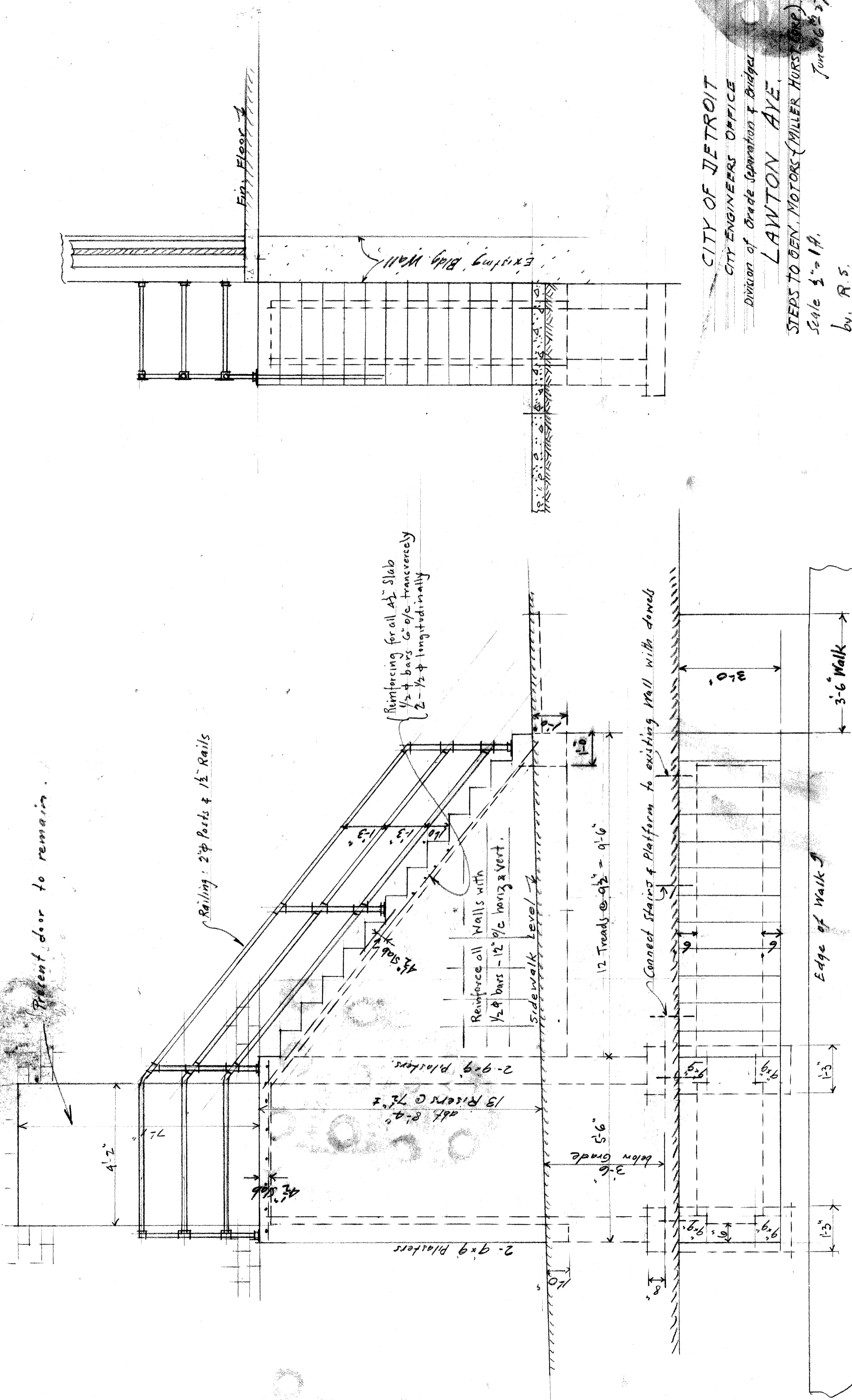
CITY OF DETROIT
 DIVISION OF GRADE SEPARATION & BRIDGES
 SOUTH OF R. OF W.

Scale - 1/8" = 1'-0" & as marked Aug. 1926
 DRAWN H.F.J.
 CHECKED R.S.
 8/6/26.

Rev. 8-23-26
 File XU 18-11

M.C.R.

10863
112



Present door to remain

Railing: 2" Posts & 1 1/2" Rails

Reinforcing for all 4 1/2" Slab
1/2" bars c/c transversely
2 - 1/2" bars longitudinally

Reinforce all Walls with
1/2" bars - 12" c/c horiz & vert.

Sidewalk level

12 Treads @ 9 1/2" = 9'-6"

Connect Stairs & Platform to existing Wall with dowels

Edge of Walk

3'-6" Walk

CITY OF DETROIT
CITY ENGINEERS OFFICE

Division of Grade Separation & Bridges

LAWTON AVE.

STEPS TO GEN. MOTORS (MILLER HURST CO.) BLDG.

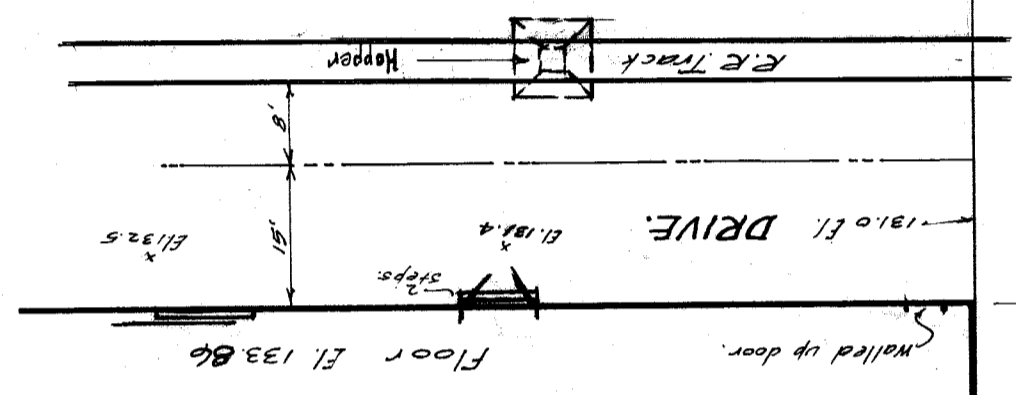
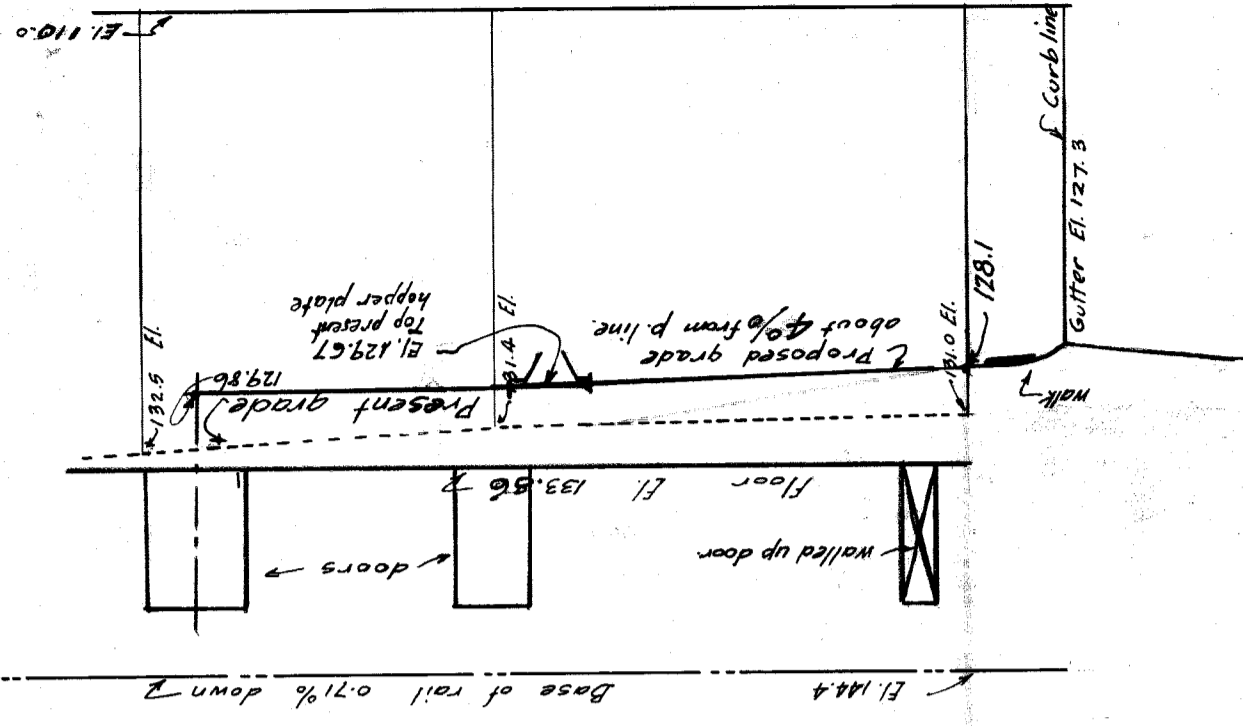
Scale 1/4" = 1'-0"

by, R.S.

June 16, 1927.

File XU 18-12

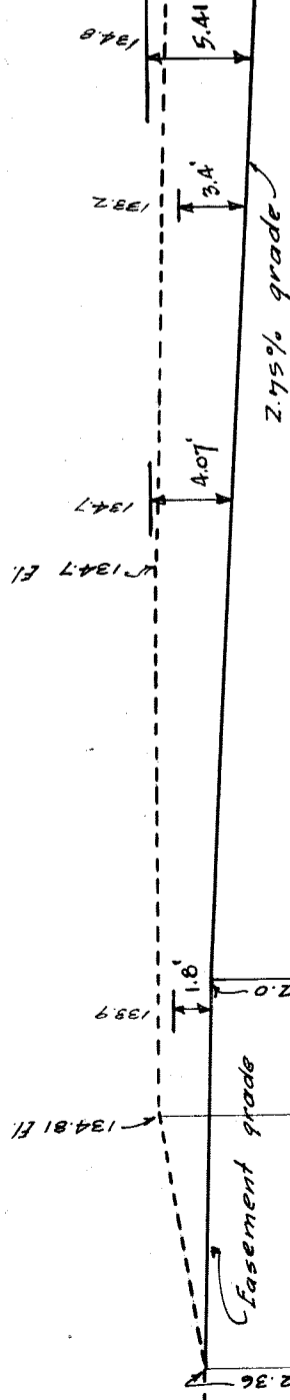
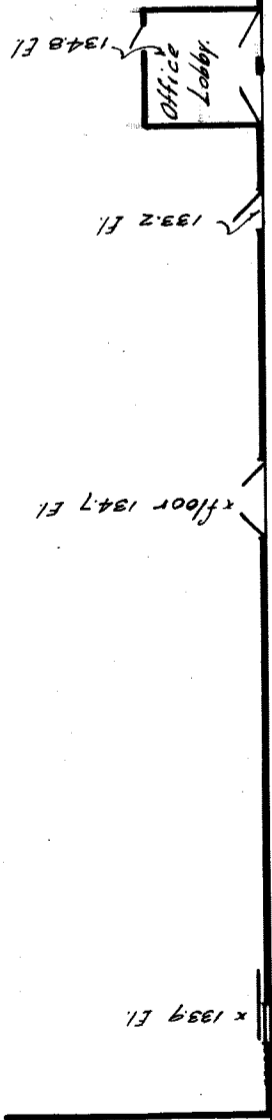
PROFILE ON DRIVE.



HANCOCK AV.

VICTOR PENINSULAR CO.

PLAN



Concrete floor and drive in warehouse

Approx 155' to foot of 2.75% Slope.

CITY OF DETROIT.

Office of City Engineer.
Division of Grade Separation.

**PLAN AND PROFILES
LAWTON AVE.**

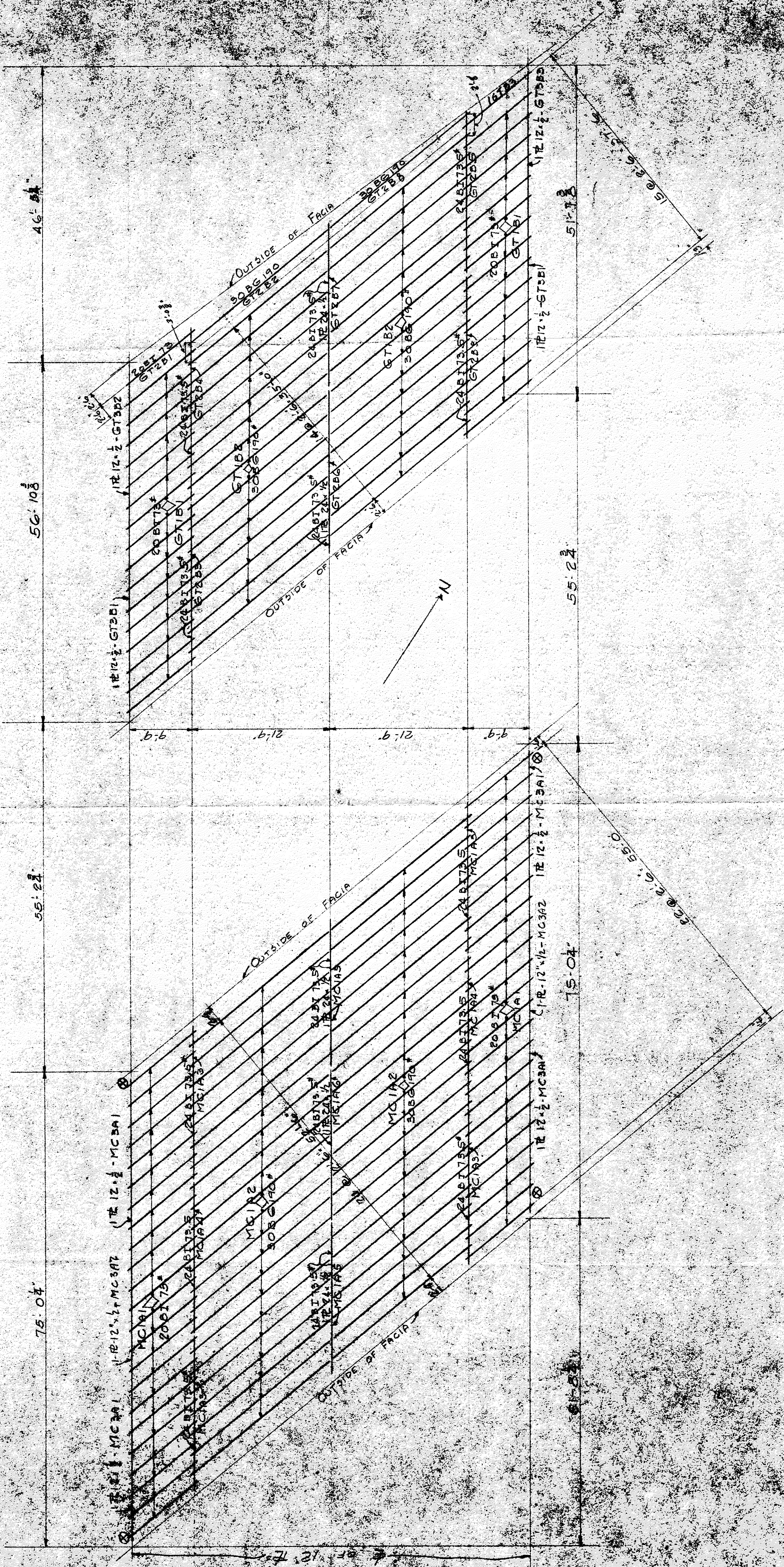
VICTOR PENINSULAR CO.

Scale 1"=20'
VERT. " = 10'

Mar. 7, 1926.

Dr. H.T.J. Ck.
Rev. 10-1-26. R.S.

PROFILE ON LAWTON.



MCRR BRIDGE - ALL BEAMS + G MARKED (A)

G.T. BRIDGE - ALL BEAMS + G

GENERAL NOTES	
SHOP PAINT	WHITENED ZINC POLYMER
FIELD PAINT	DETROIT, MICH.
FIELD BOLTED CONNS.	ORDER # 125
FIELD RIVETED CONNS.	CITY OF DETROIT
FIELD RIVETS	LAWRENCE AVE. SUBWAY
SHOP WORK INSPECTED BY	M.E.S. + G.S.T.
RIVETS	SCALE
HOLDS	DRIVEN BY
ACTED	31.3.78
SHIPPED BY	

File XU 18-14 E1

CONTRACT NO. 1713

NO OF PIECES	MATERIAL	WHY PART	QTY	SHEET	MILL CROSS		REMARKS
					NO.	WIDTH	
46	COBI 13	13.82	13.82	46	13.82	MCIA 1	
37	d	13.82	13.82	37	13.82	STIB 1	
44	30 BG 190	28.6	28.6	44	28.6	MCIA 2	
30	d	28.6	28.6	30	28.6	STIB 2	
<hr/>							
4	MCIA 3	25.12	25.12	4	25.12		
4	24 BI 73.5	24.3	24.3	4	24.3	2 Bolt	
<hr/>							
2	24 BI 73.5	24.3	24.3	2	24.3	MCIA 4	
<hr/>							
2	MCIA 5	25.12	25.12	2	25.12		
2	24 BI 73.5	25.12	25.12	2	25.12		
4	TE 24 x 4	1.3	1.3	4	1.3	2 Bolt	
<hr/>							
1	MCIA 6	24.3	24.3	1	24.3		
1	24 BI 73.5	24.3	24.3	1	24.3		

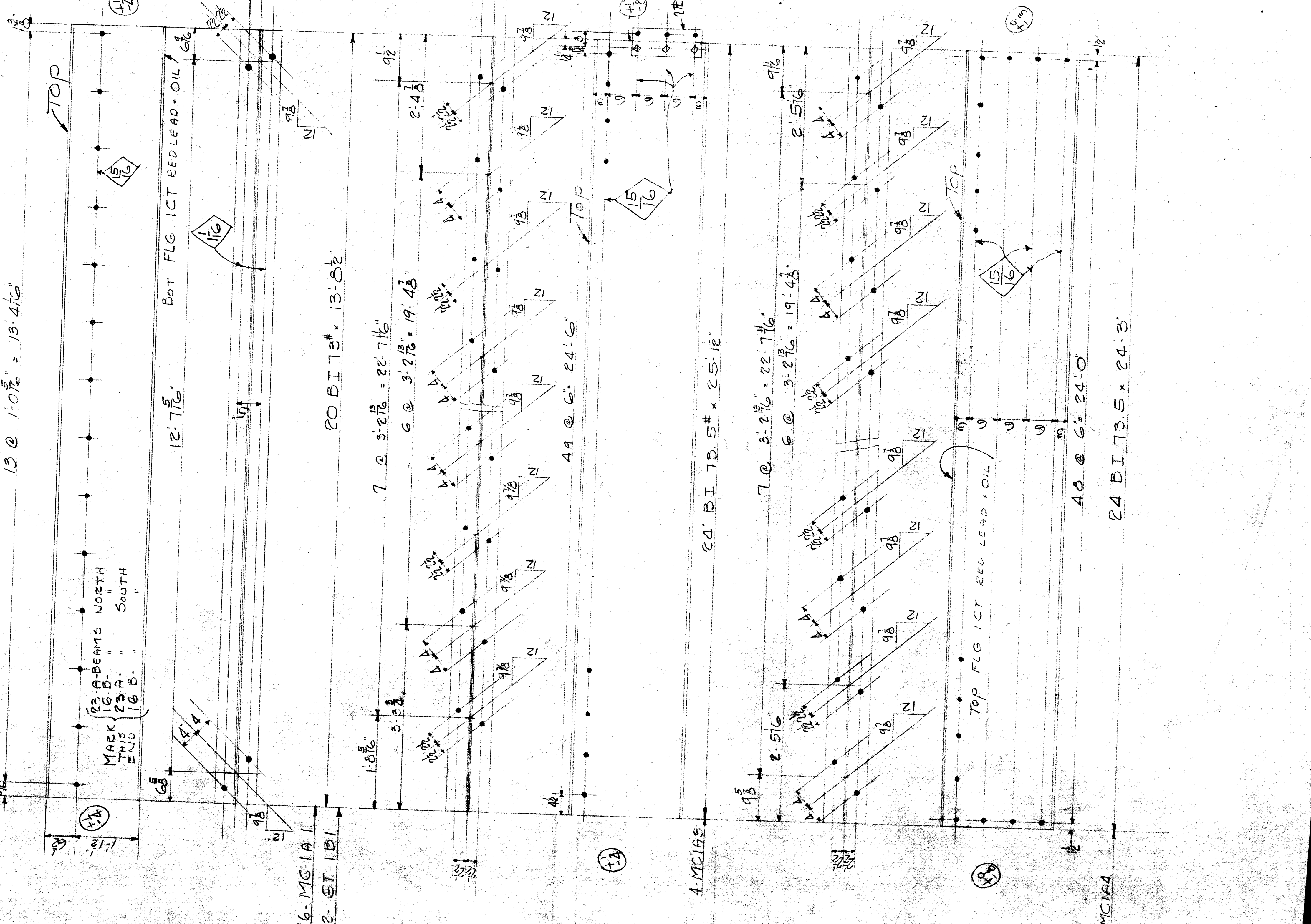
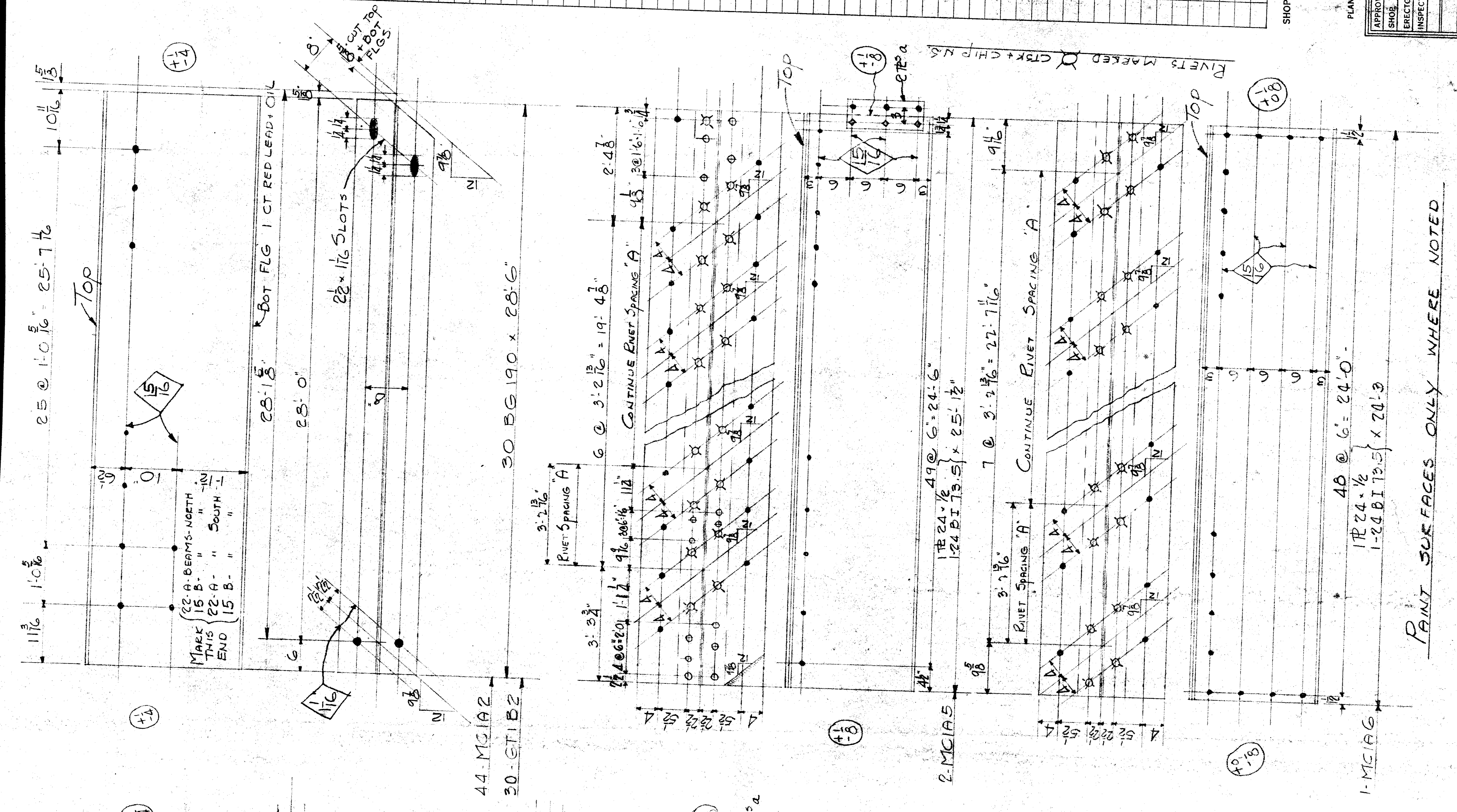
SHOP PAINT CONTRACT SURFACES ONLY UNLESS OTHERWISE CALLED FOR
2 CT'S RED LEAD OIL

WHITEHEAD & KALES COMPANY
DETROIT MICH

ORDER 1713 DATE 8-12-26
CITY OF DETROIT

LAWTON AVE SWIRWAY
MCRAE & TRR

SCALE _____ DRAWN BY _____
FOLDER NO _____ TRACED BY _____
SHEET NO 381 CHECKED BY _____



PAIN SURFACES ONLY WHERE NOTED

File XU 18-15

NO OF PICES	MATERIAL	REV. PER FT	LENGTH	REMARKS	BILL OF MATERIALS	
					NO.	QTY.
1	20BI 73		28.4	GT2B1	1	128.8
1	20BI 190		28.4	GT2B2	1	128.6
1	do		28.4	GT2B3	1	128.6
2	24BI 73.5		26.5		2	26.5
4	R 6 x 1/4		1.3	BOLT		
1	24BI 73.5		28.11	GT2B4	1	128.11
1	do		28.7	GT2B5	1	128.7
1	1-GT2B6		26.5		1	26.5
1	24BI 73.5		26.5			
2	R 6 x 1/4		1.3	BOLT		
1	1-GT2B7		27.4			
1	24BI 73.5		27.4			

SHOP PAINT SURFACES ALL HOLES 1/16" UNLESS OTHERWISE CALLED FOR

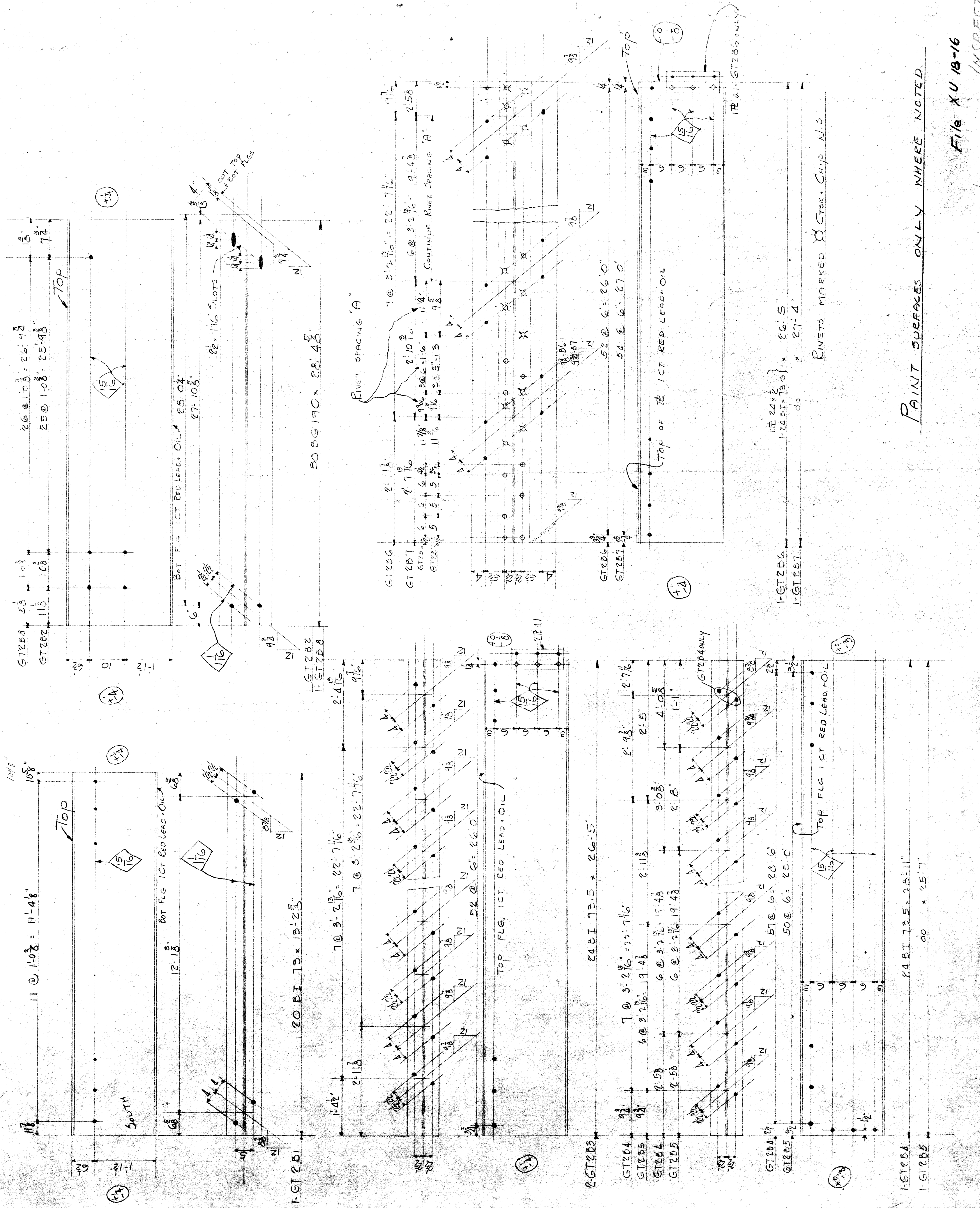
WHITEHEAD & KALES COMPANY
DETROIT MICH

ORDER 1713 DATE 3-16-26
CITY OF DETROIT
LAWTAN AVE SUBWAY
UNDER
MCKER G.T.C.

PLANT NO. 2

APPROVAL: []
SHOP: []
ERECTOR: []
INSPECTOR: []

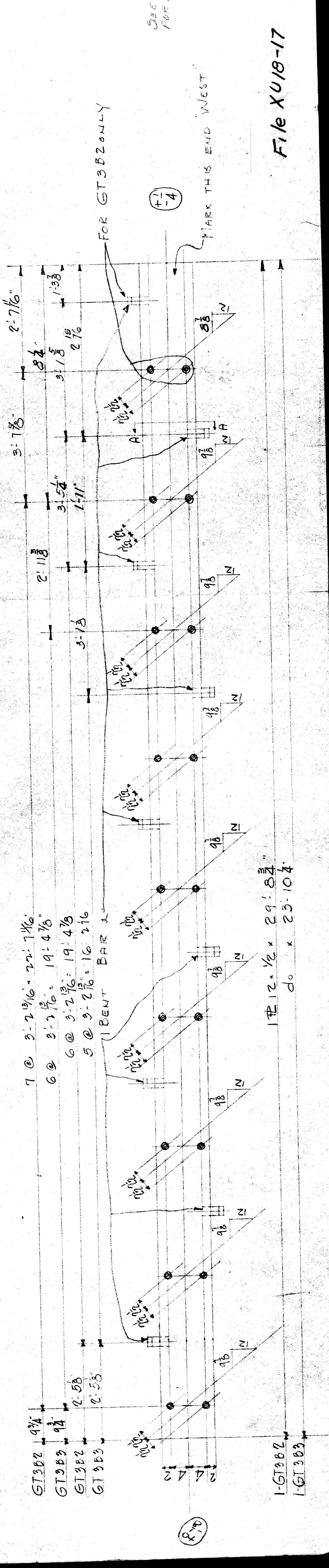
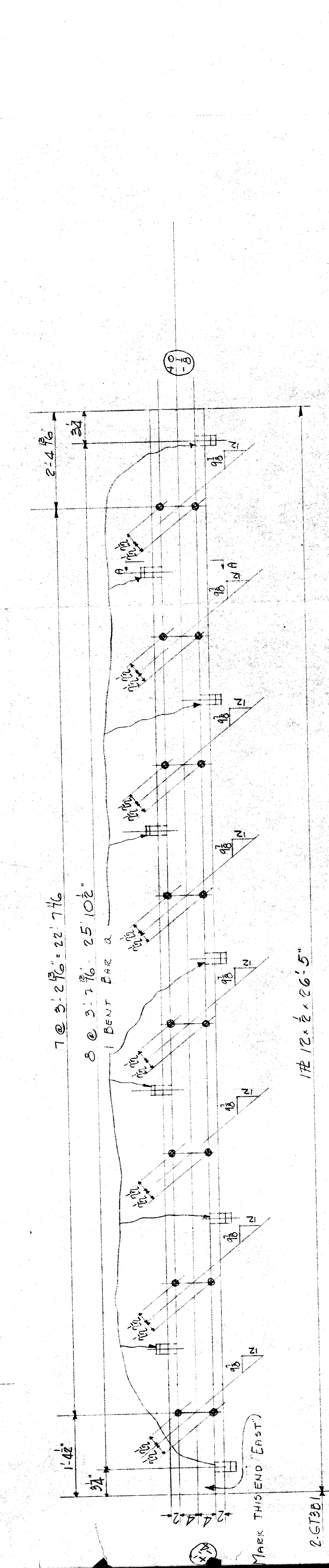
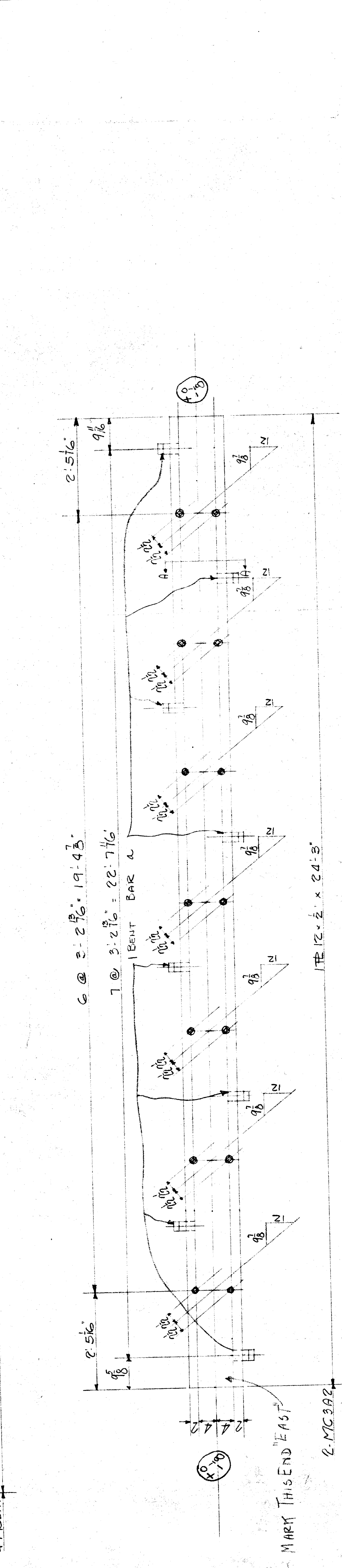
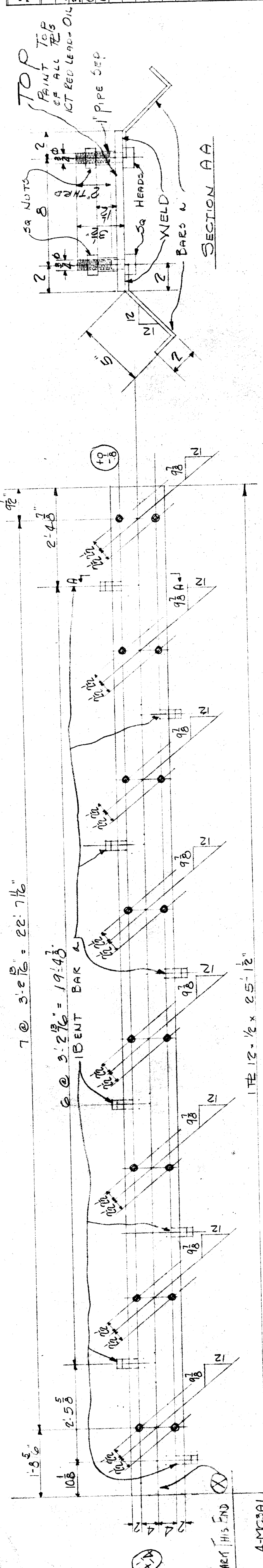
SCALE: [] DRAWN BY: []
FOLDER NO: [] TRACED BY: []
SHEET NO: 2331 CHECKED BY: []



PAINT SURFACES ONLY WHERE NOTED

File XU 19-16

INSPECTOR



NO. OF PIECES	MATERIAL	WEIGHT PER PIECE	LENGTH	REMARKS
4	4-MCSA1	25.12	0 9/16	BENT
2	2-MCSA2	26.5	0 9/16	BENT
1	1-GT3B2	29.92	0 9/16	BENT
1	1-GT3B3	23.101	0 9/16	BENT
17	17 BARS 2 1/4"	0 1 1/2	0 1 1/2	BENT
30	30 PIPE SEPS 1 1/4"	0 1 1/2	0 1 1/2	
20	20 BOLTS 1/4"	0 1 1/2	0 1 1/2	

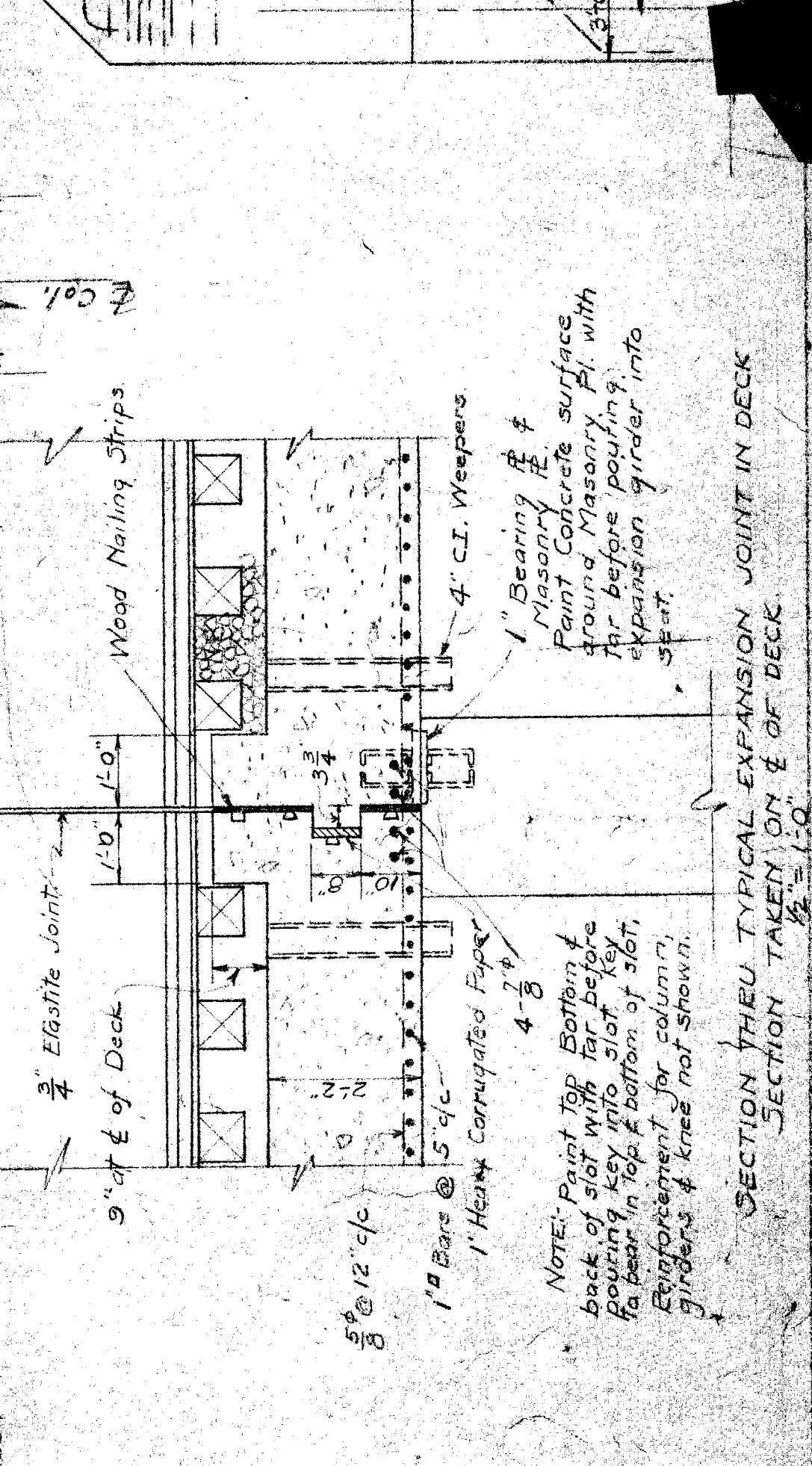
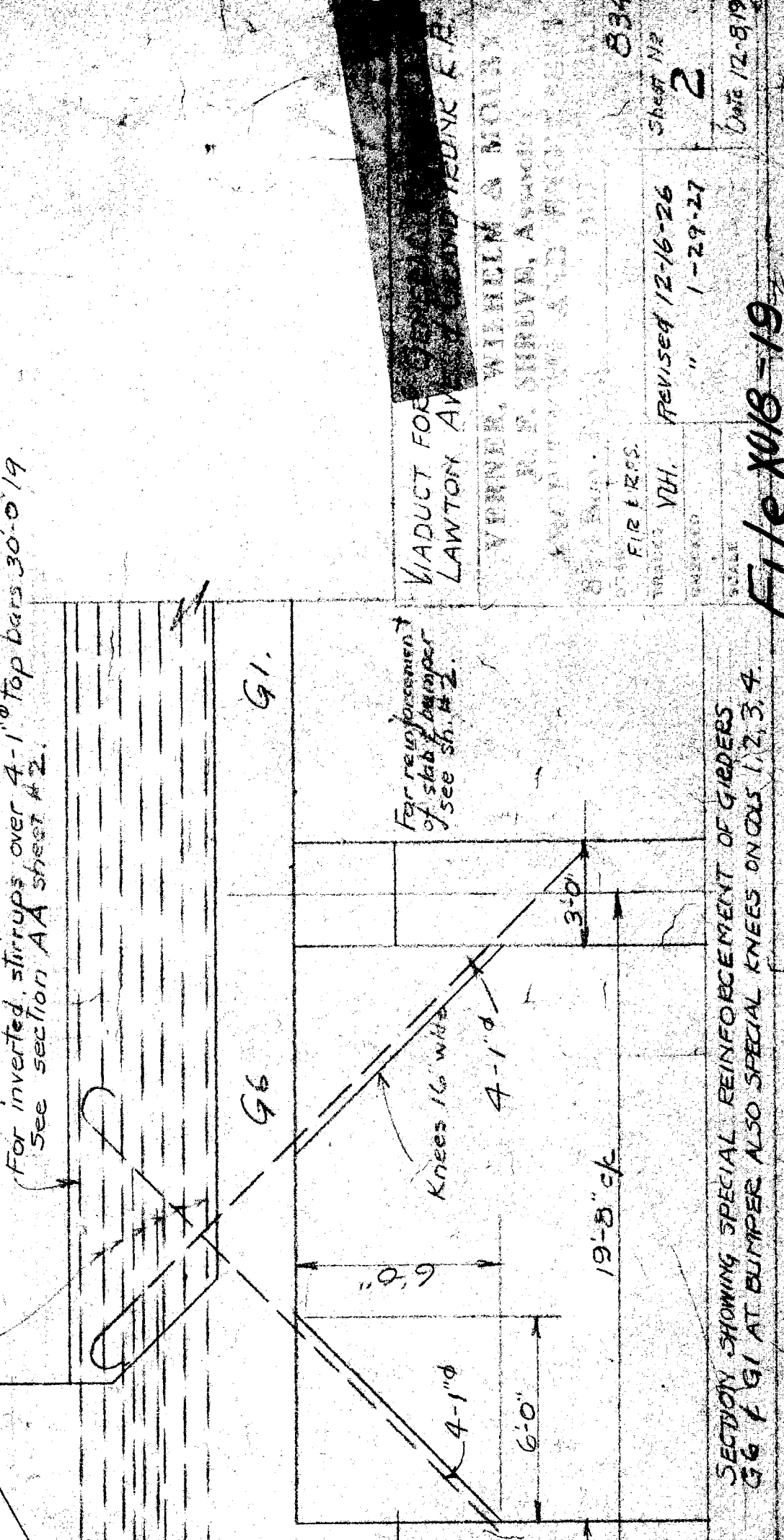
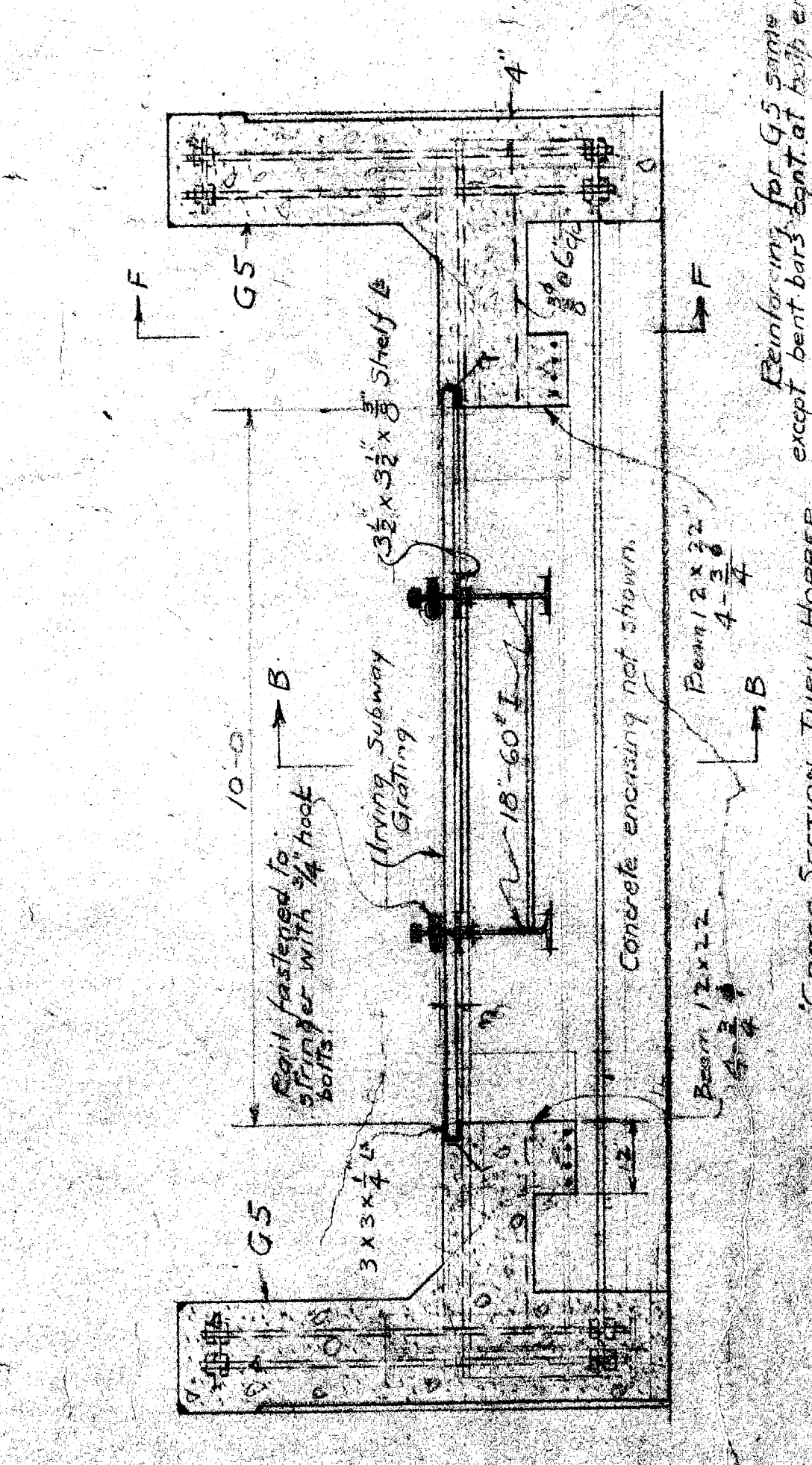
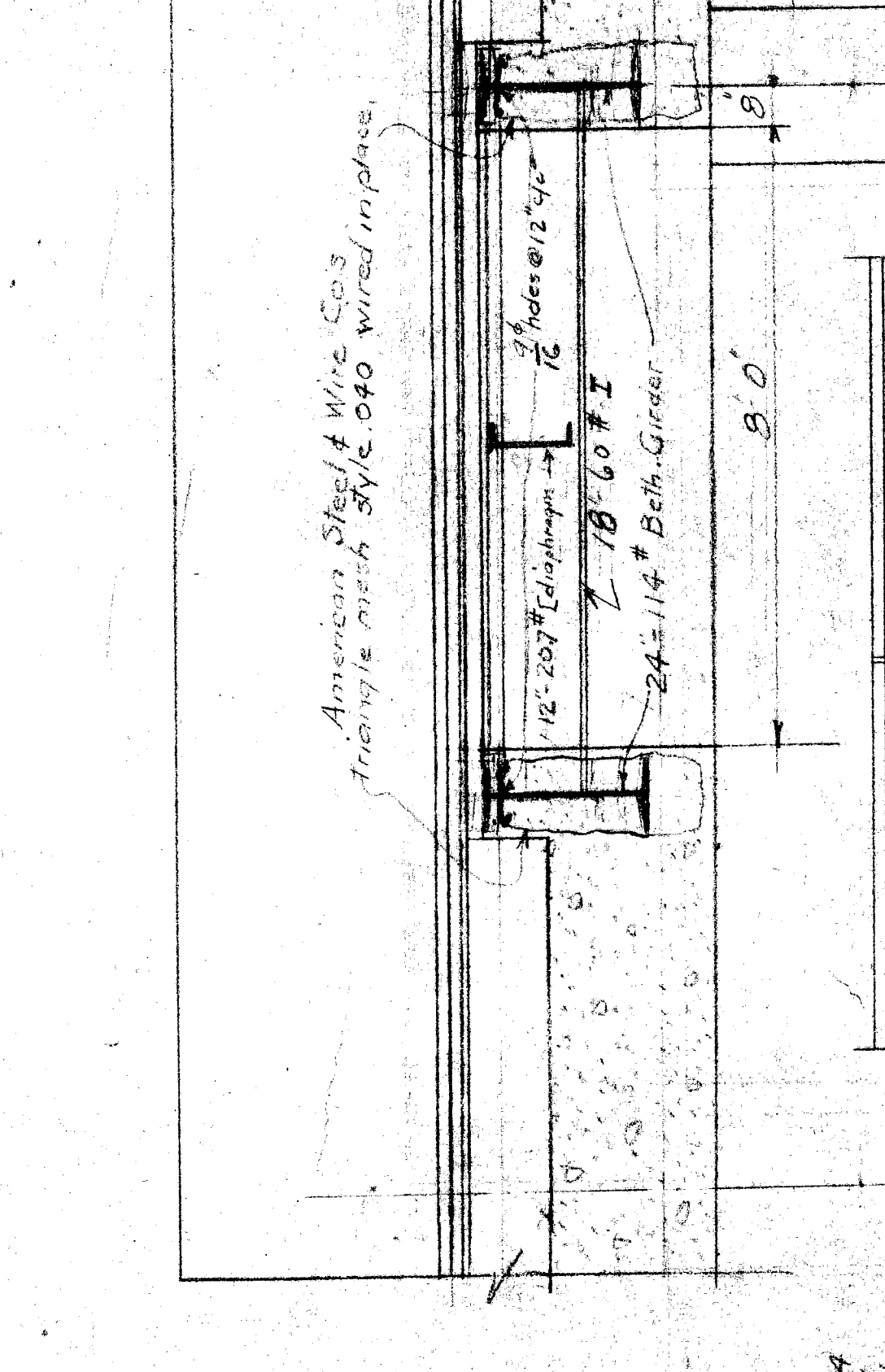
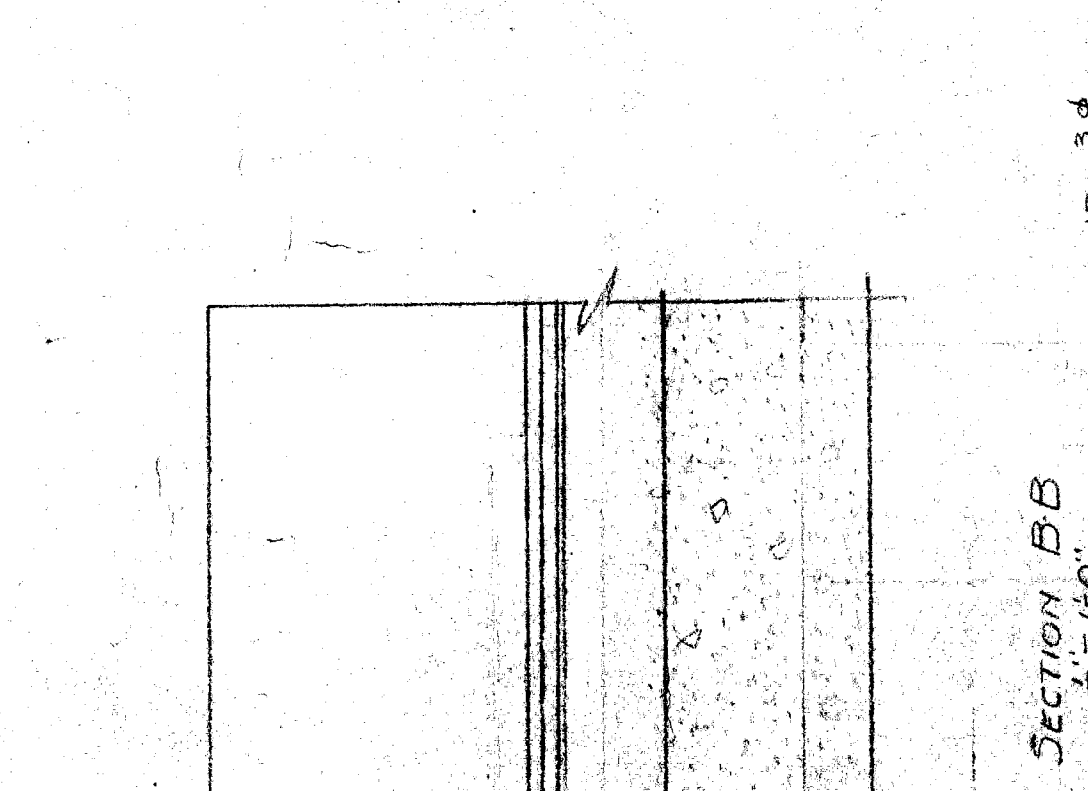
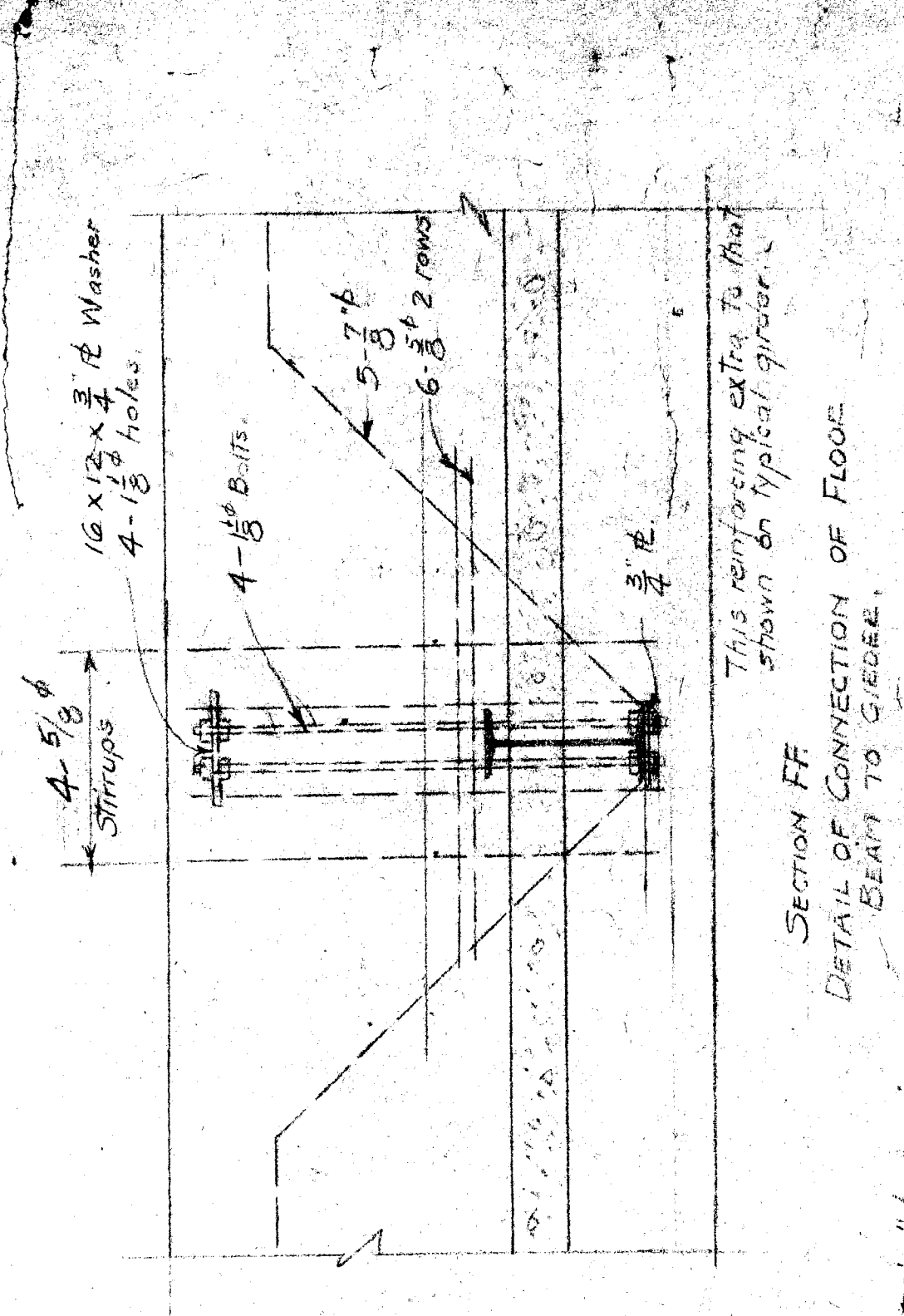
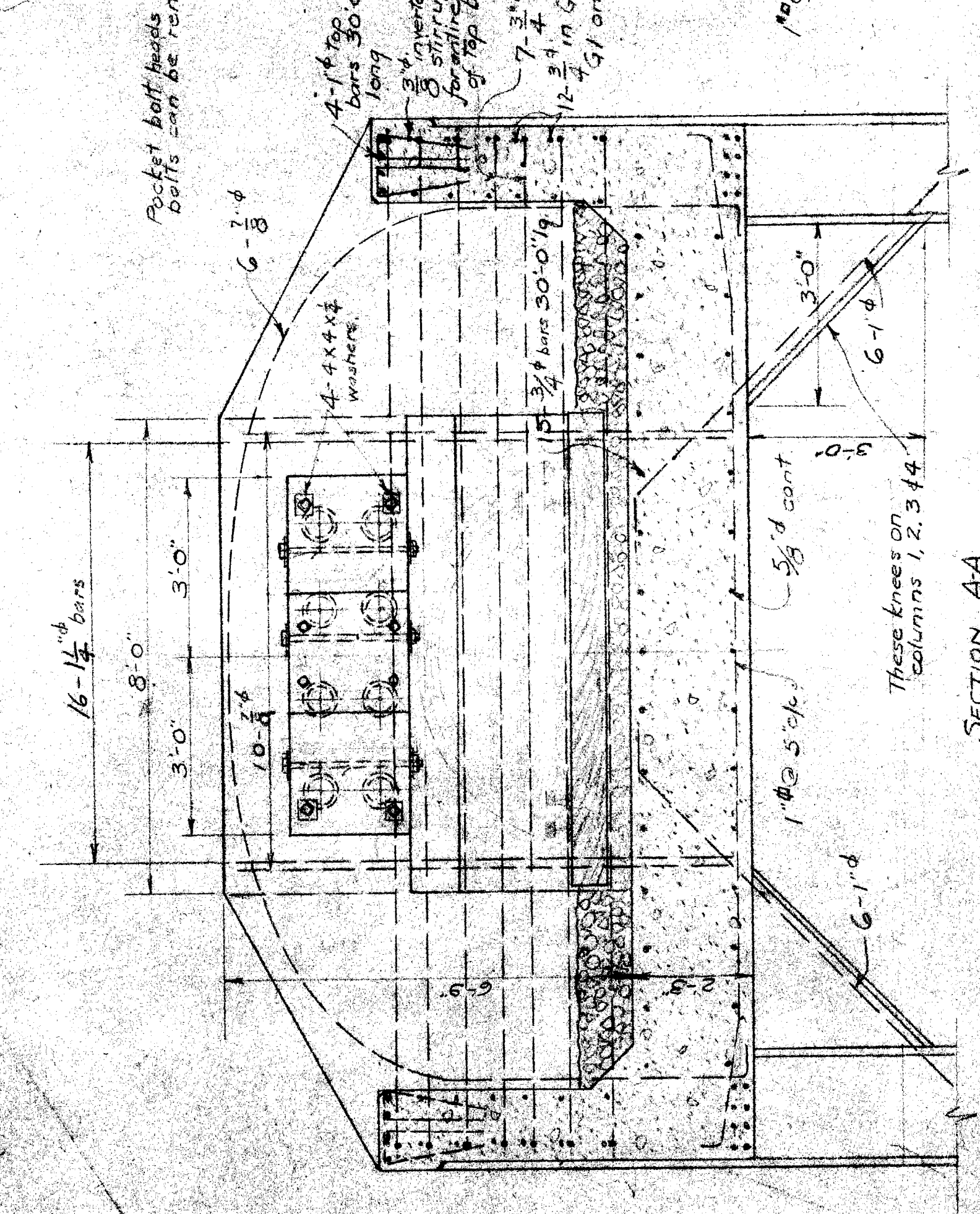
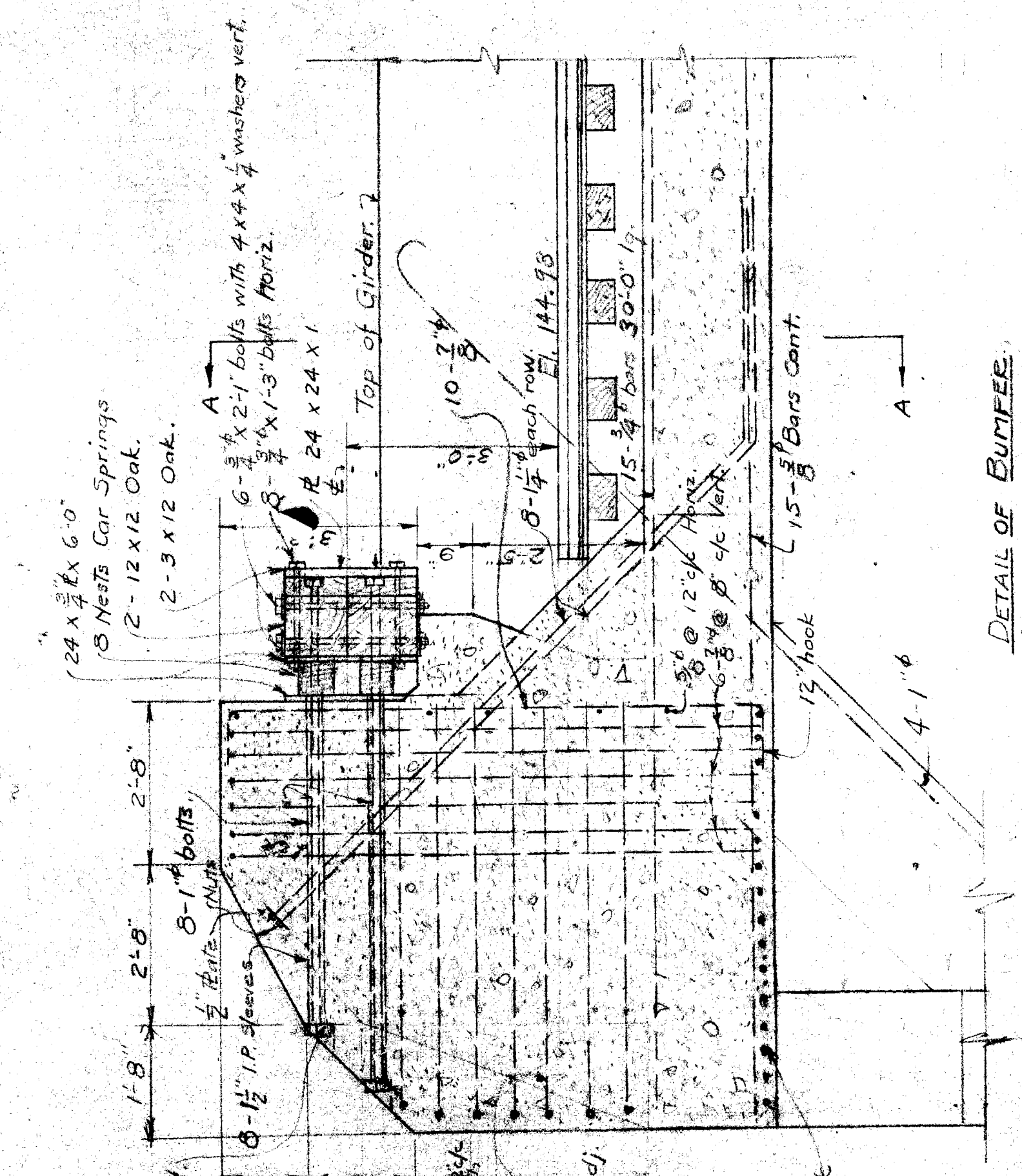
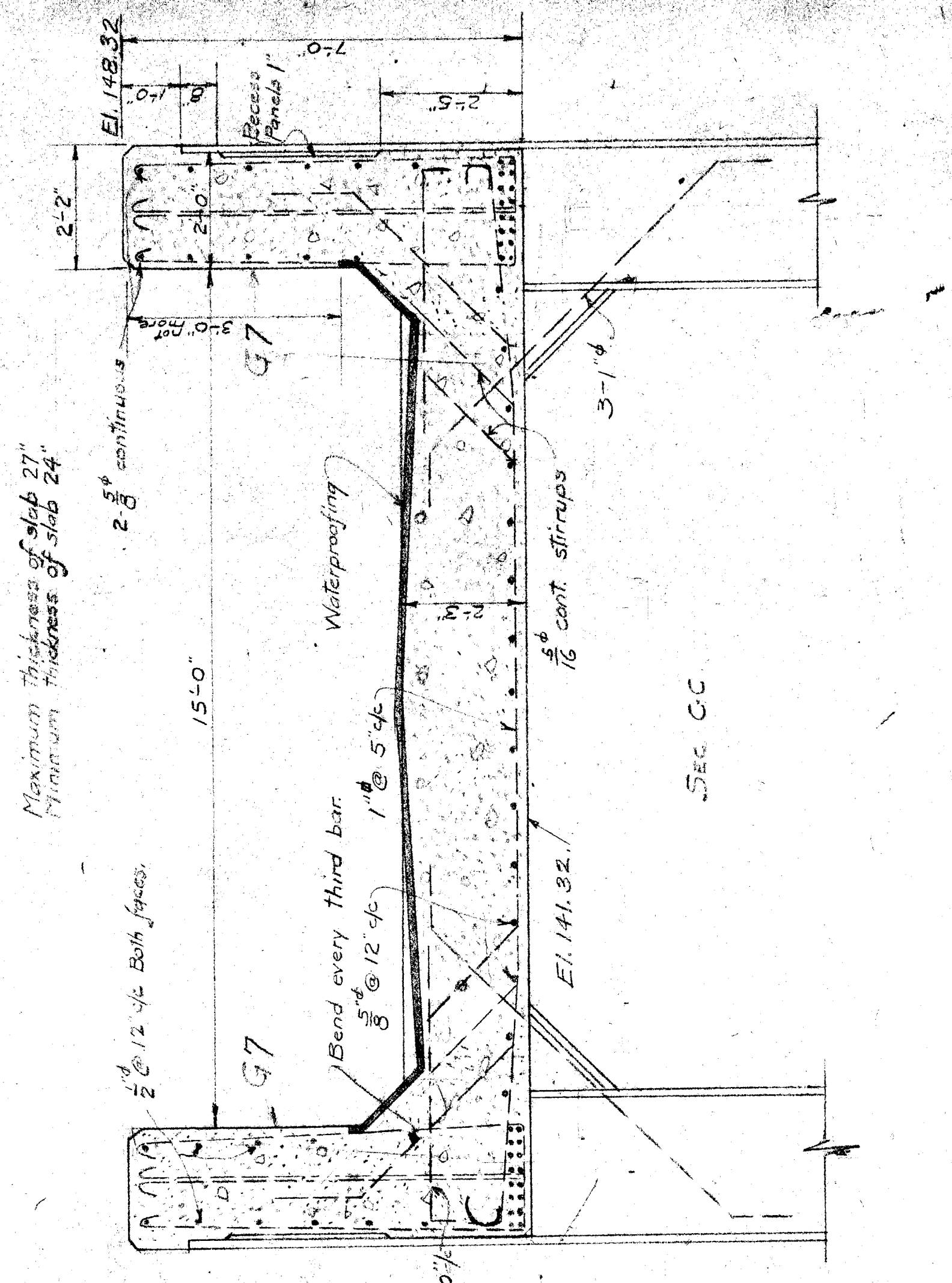
SHOP PAINT CONTACT SURFACES 1/16" ALL RIVETS UNLESS OTHERWISE CALLED FOR

WHITEHEAD & KALES COMPANY
 DETROIT MICH
 ORDER 1713 DATE 6-17-21
 CITY OF DETROIT
 LAWTON AVE SUBWAY
 UNDER MCKER & GREE

PLANT NO. 3
 APPROVAL SHOP ERECTOR INSPECTOR
 SCALE FOLDER NO. TRACED BY
 SHEET NO. 1713 CHECKED BY

SEE NOTE ON BENT A-A FOR PAINT

File XU18-17



Column Numbers	Concrete Columns	Size	Bars	Size	Diameter	Reinforcing	Size	Bars Each Way
48-50	30x32	24x30	24x32	24x36	12.34			
30-32	30x32	24x30	24x32	24x36	12.34			
36	30x32	24x30	24x32	24x36	12.34			
38	30x32	24x30	24x32	24x36	12.34			
40	30x32	24x30	24x32	24x36	12.34			
42	30x32	24x30	24x32	24x36	12.34			
44	30x32	24x30	24x32	24x36	12.34			
46	30x32	24x30	24x32	24x36	12.34			
48	30x32	24x30	24x32	24x36	12.34			
50	30x32	24x30	24x32	24x36	12.34			
52	30x32	24x30	24x32	24x36	12.34			
54	30x32	24x30	24x32	24x36	12.34			
56	30x32	24x30	24x32	24x36	12.34			
58	30x32	24x30	24x32	24x36	12.34			
60	30x32	24x30	24x32	24x36	12.34			
62	30x32	24x30	24x32	24x36	12.34			
64	30x32	24x30	24x32	24x36	12.34			
66	30x32	24x30	24x32	24x36	12.34			
68	30x32	24x30	24x32	24x36	12.34			
70	30x32	24x30	24x32	24x36	12.34			
72	30x32	24x30	24x32	24x36	12.34			
74	30x32	24x30	24x32	24x36	12.34			
76	30x32	24x30	24x32	24x36	12.34			
78	30x32	24x30	24x32	24x36	12.34			
80	30x32	24x30	24x32	24x36	12.34			
82	30x32	24x30	24x32	24x36	12.34			
84	30x32	24x30	24x32	24x36	12.34			
86	30x32	24x30	24x32	24x36	12.34			
88	30x32	24x30	24x32	24x36	12.34			
90	30x32	24x30	24x32	24x36	12.34			
92	30x32	24x30	24x32	24x36	12.34			
94	30x32	24x30	24x32	24x36	12.34			
96	30x32	24x30	24x32	24x36	12.34			
98	30x32	24x30	24x32	24x36	12.34			
100	30x32	24x30	24x32	24x36	12.34			

VADUCT FOR
 LAWTON AV
 VERNER, WILHELM & SONS
 R. F. SHUVE, Assoc.
 CIVIL ENGINEERS
 12-16-26
 1-29-27
 SHEET 2
 DATE 12-8-1926

SECTION SHOWING SPECIAL REINFORCEMENT OF GIRDERS
 G6 & G1 AT BUMPER ALSO SPECIAL KNEES ON G1, 2, 3 & 4

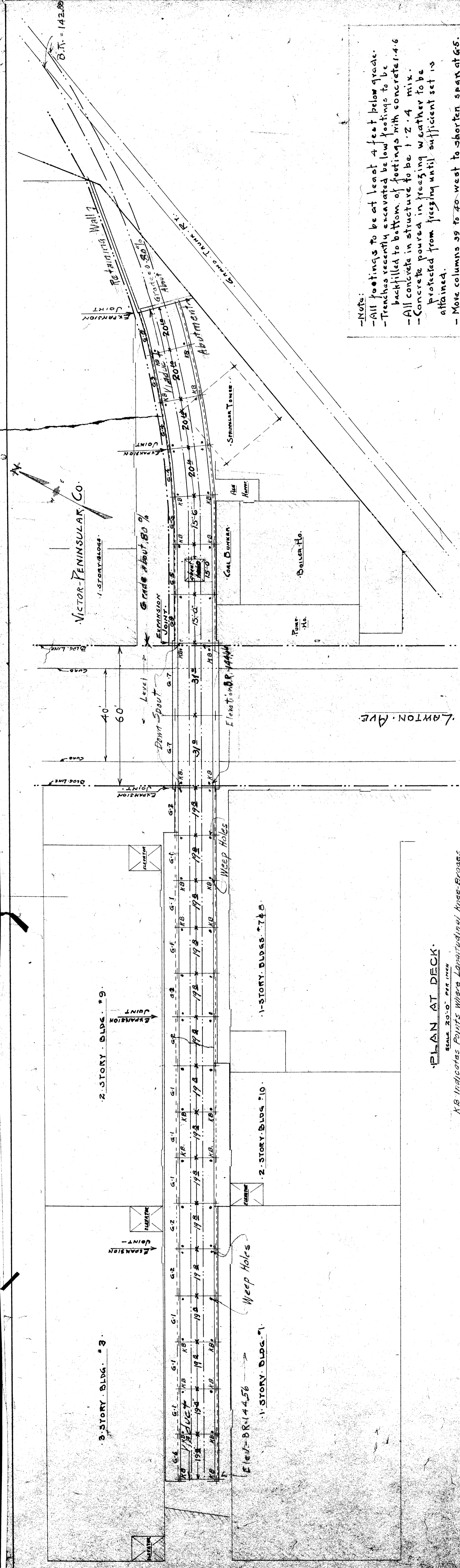
SECTION TYPICAL EXPANSION JOINT IN DECK
 SECTION TAKEN AT E OF DECK

REINFORCING FOR G5 SIMILAR TO G4
 EXCEPT BENT BARS BENT AT BOTH ENDS &
 SPECIAL REINFORCING WHERE BEAM
 BEAMS FRAMES IN CONCRETE GIRDER

CROSS SECTION THEE HOPPER
 Scale 1/2" = 1'-0"

CONCRETE ENCASING NOT SHOWN

FILE NO. 1018-19



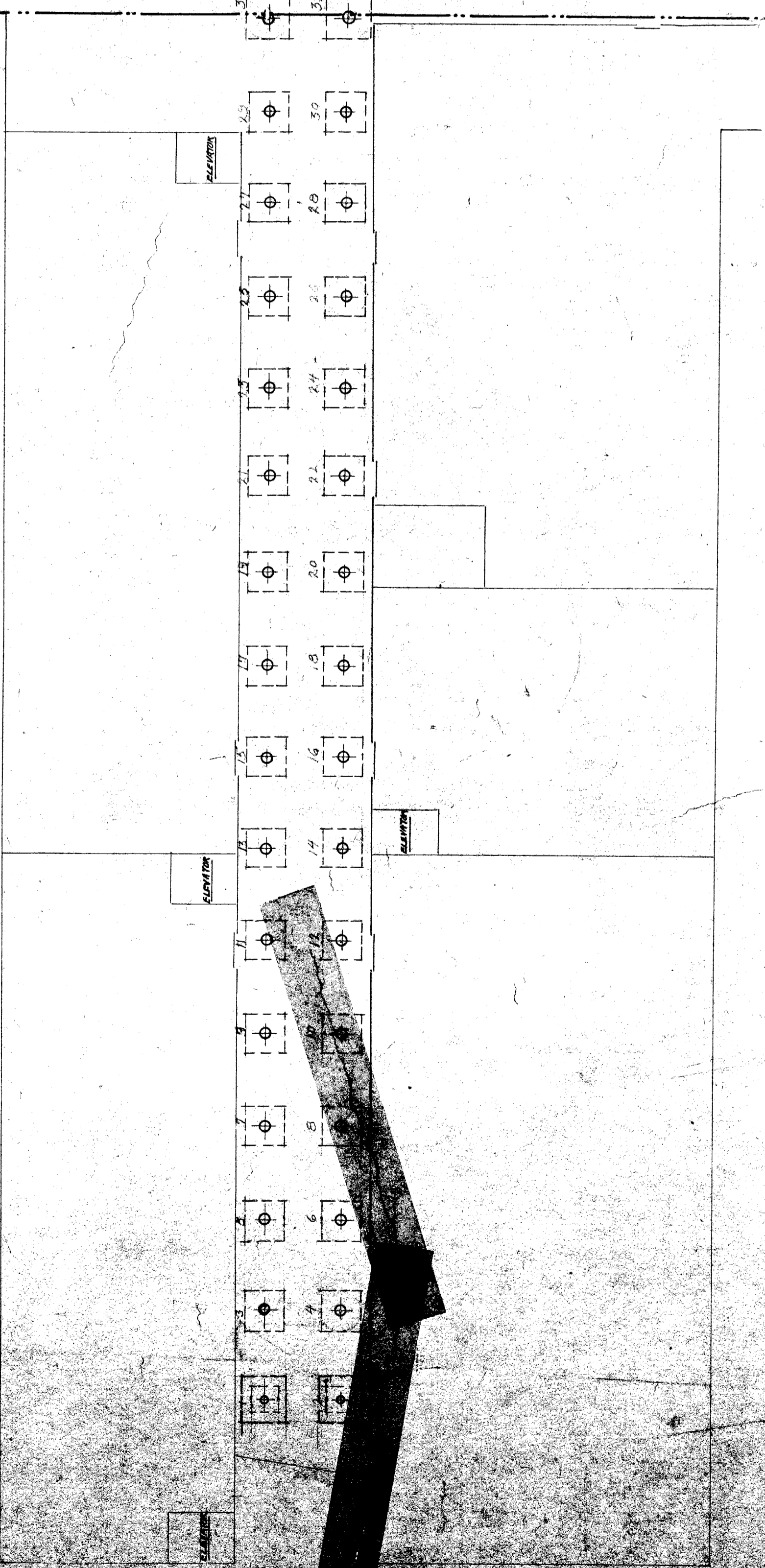
Notes:

- All footings to be at least 4 feet below grade.
- Trenches recently excavated below footings to be backfilled to bottom of footings with concrete 1-4-6.
- All concrete in structure to be 1-2-4 mix.
- Concrete poured in freezing weather to be protected from freezing until sufficient set is attained.
- More columns 39 to 40 west to shorten span at G5.
- G5 to be same as G4 except for special reinforcement, where steel beams frame into concrete girders and bars are bent for continuity at both ends.
- G6 to be same as G2 except for special reinforcement of bumper and bars to take longitudinal stress, top bars and inverted stirrups.

PLAN AT DECK

SCALE 20'-0" PER INCH

KB Indicates Points Where Longitudinal Knee-Braces are to be Used.
 Transverse Knee Braces are to be Used on all Columns.
 More Special Braces at Bumper.



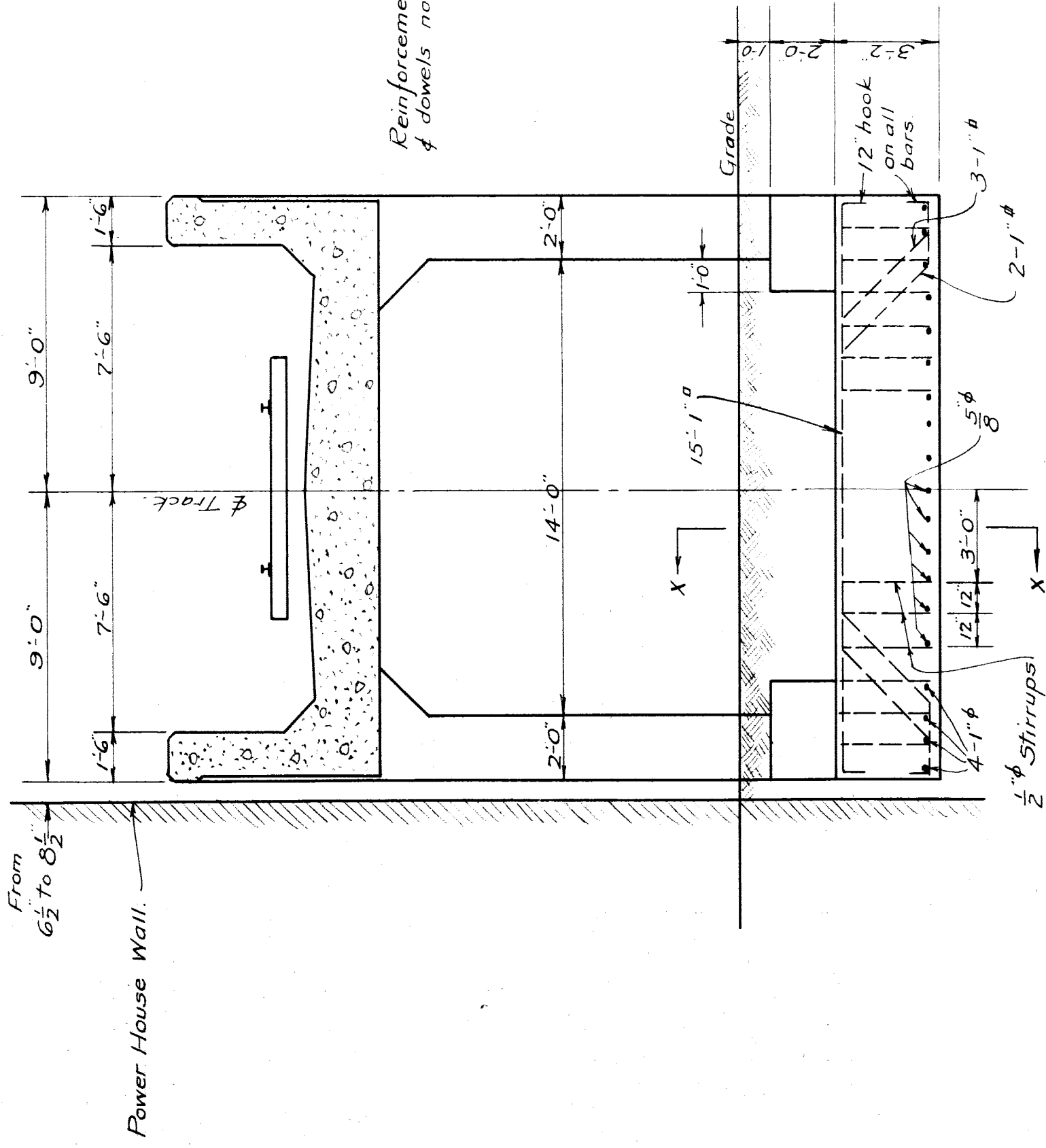
PLAN OF FOOTINGS

SCALE 20'-0" PER INCH

VIADUCT FOR GENERAL MOTORS CORP.
 LAWTON AVE & G.T.R.
 834
 Revised 12-14-26, Sheet No. 3
 12-8-26

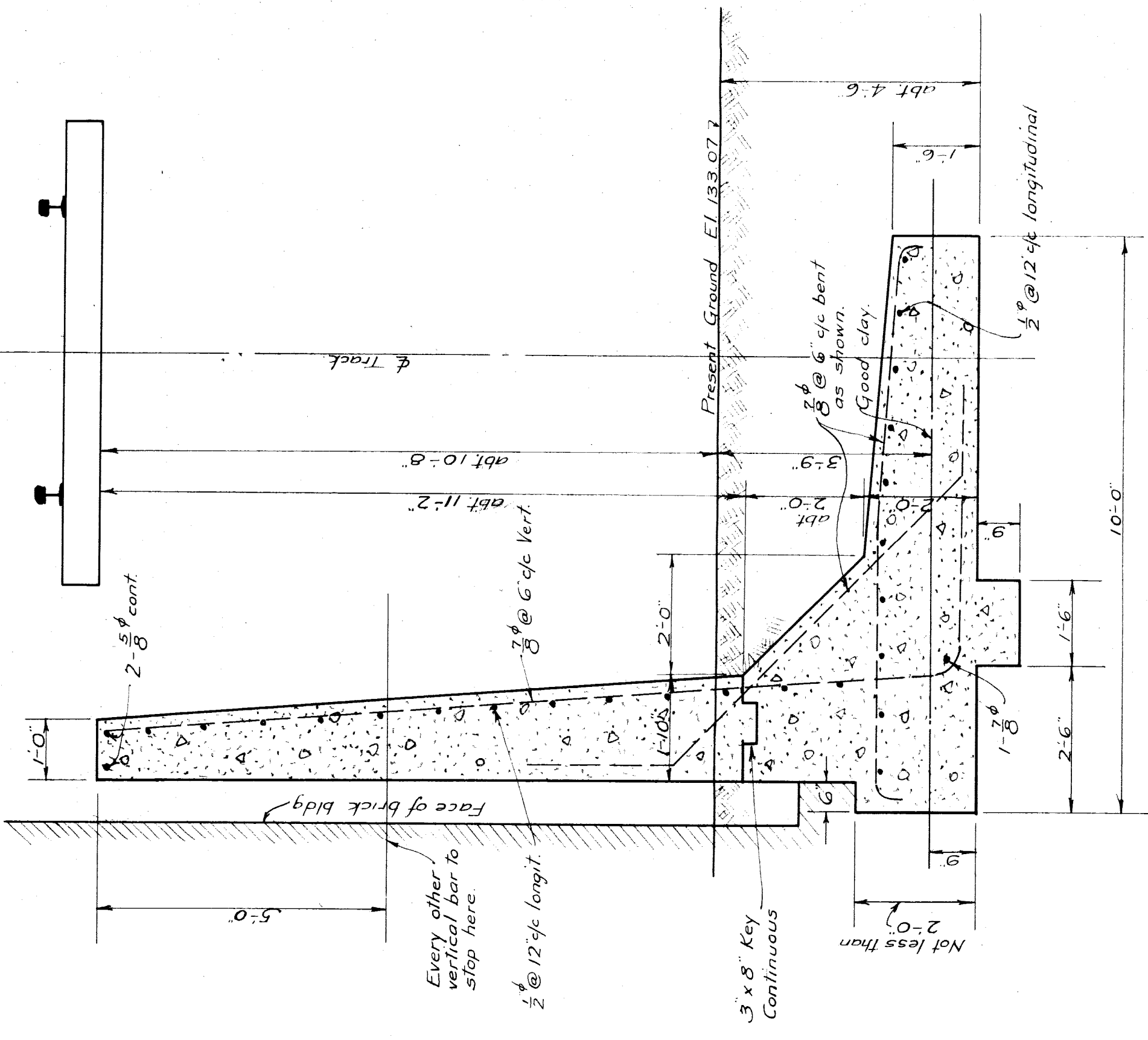
VIADUCT
 FOR GRAND TRUNK RY. SIDING
 INTO WAREHOUSE PLANT OF THE
 GENERAL MOTORS CO
 Nov. 1, 1926

Revised Nov 22-26

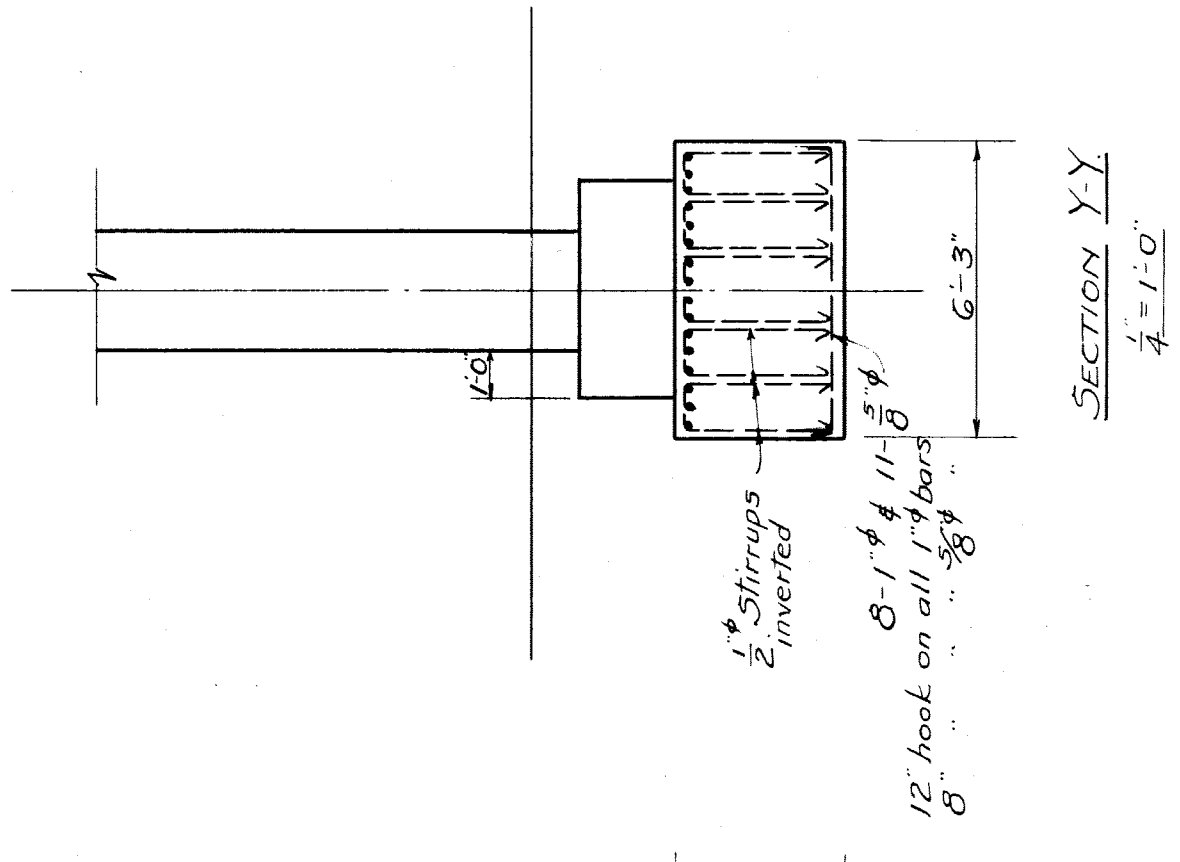


FOOTINGS FOR COLS. 37 & 38
39 & 40
41 & 42
43 & 44
45 & 46
47 & 48
Scale 1/4" = 1'-0"

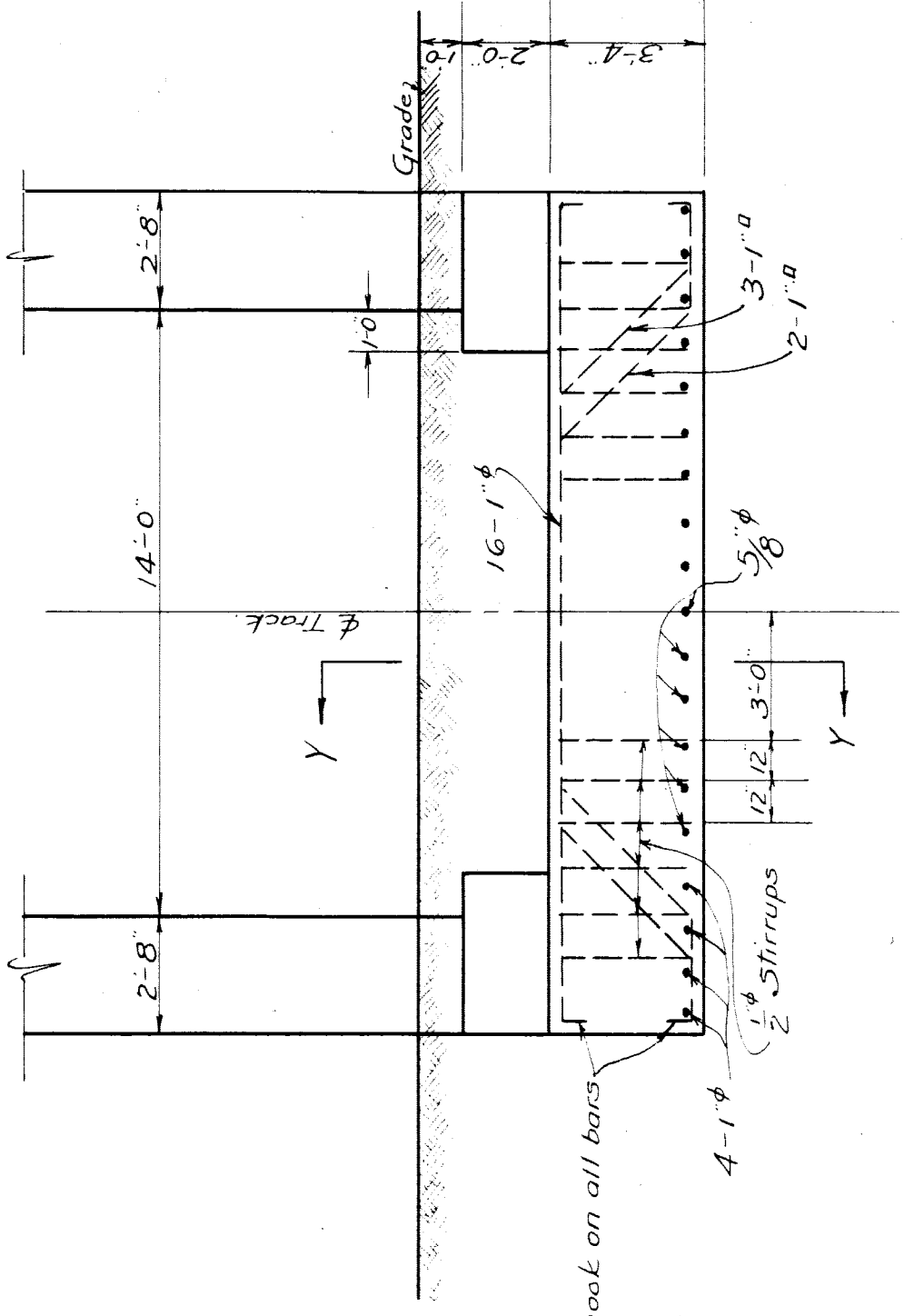
Provide longitudinal knee braces where shown on sheet #3.



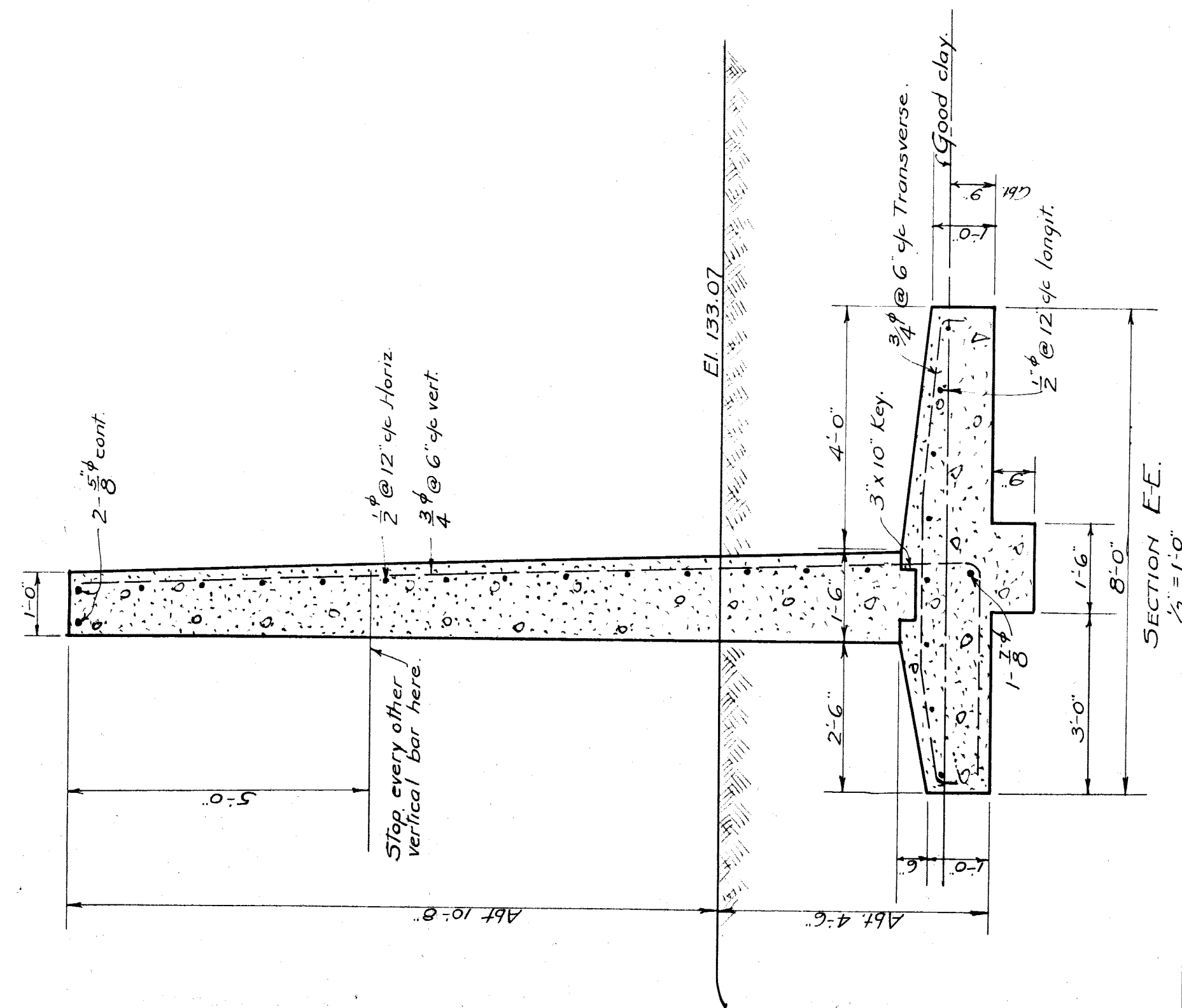
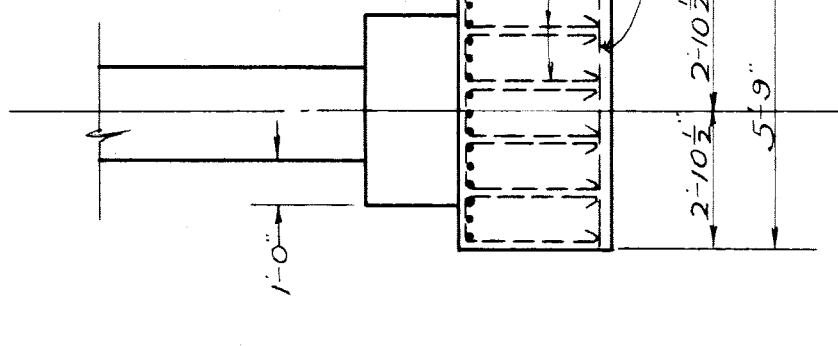
TYPICAL SECTION - RETAINING WALL ADJACENT TO VICQUE PENINSULAR PROPERTY
Scale 1/2" = 1'-0"
SECTION G-G



FOOTING FOR COLS. 35 & 36
Scale 1/4" = 1'-0"

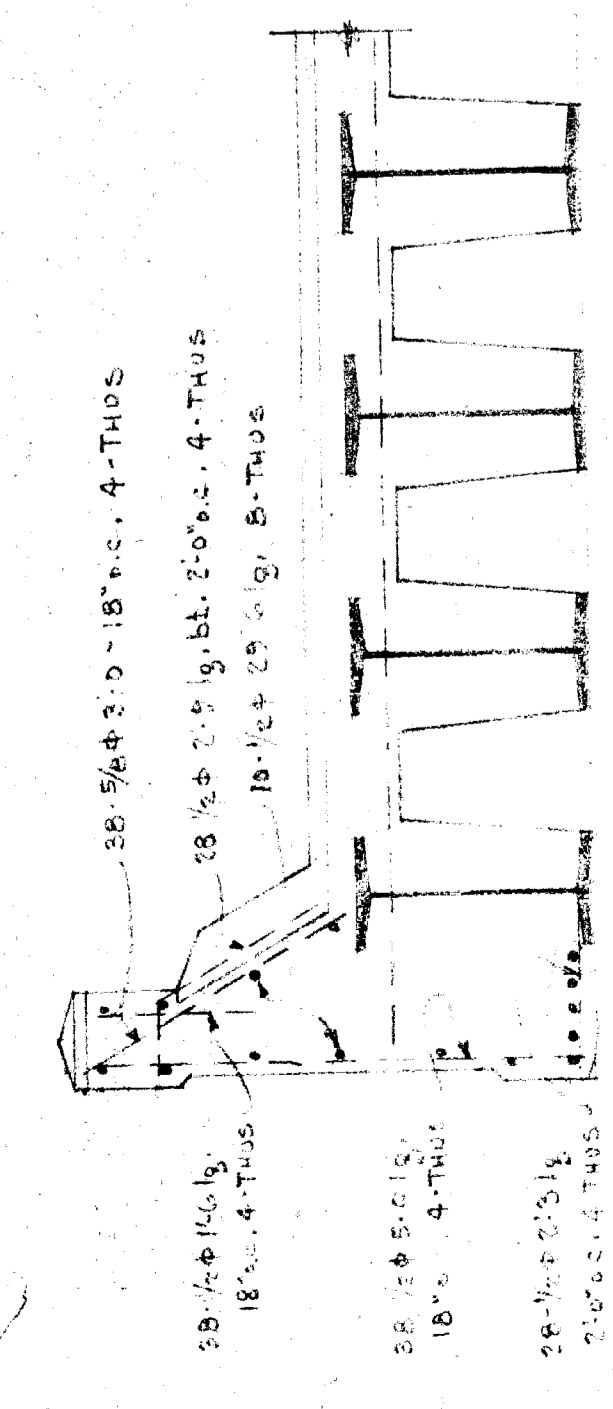
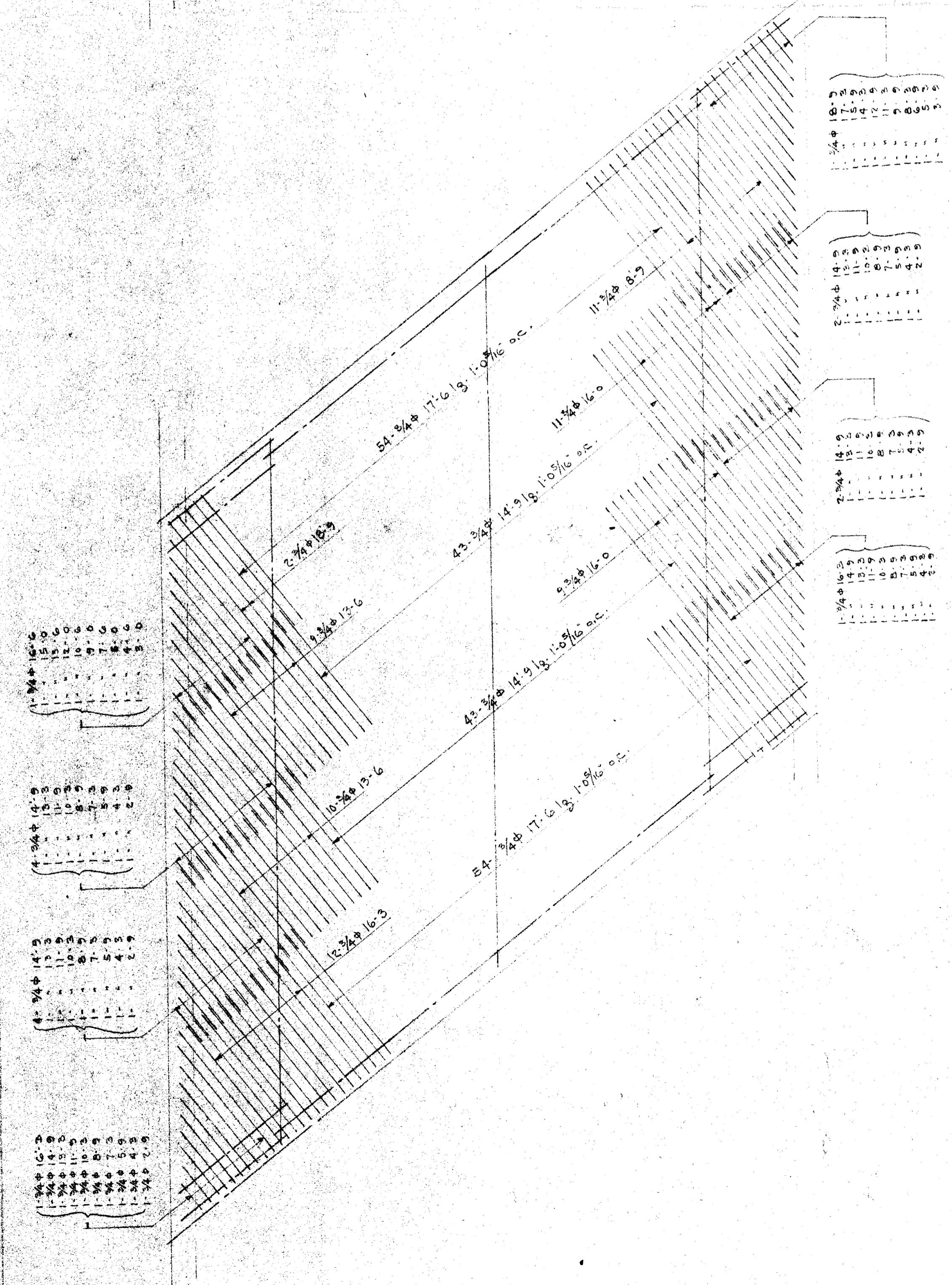
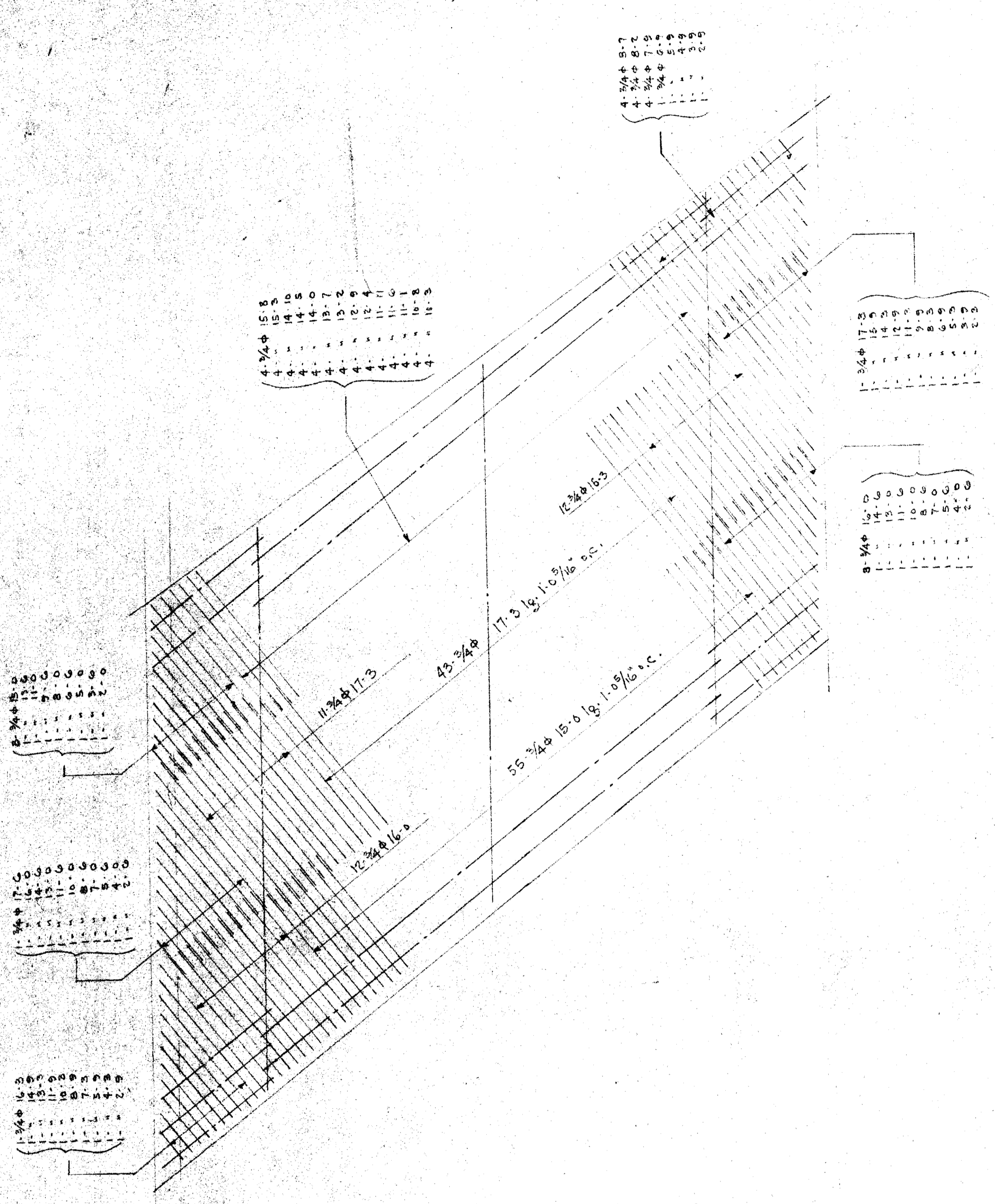


SECTION X-X
Scale 1/4" = 1'-0"

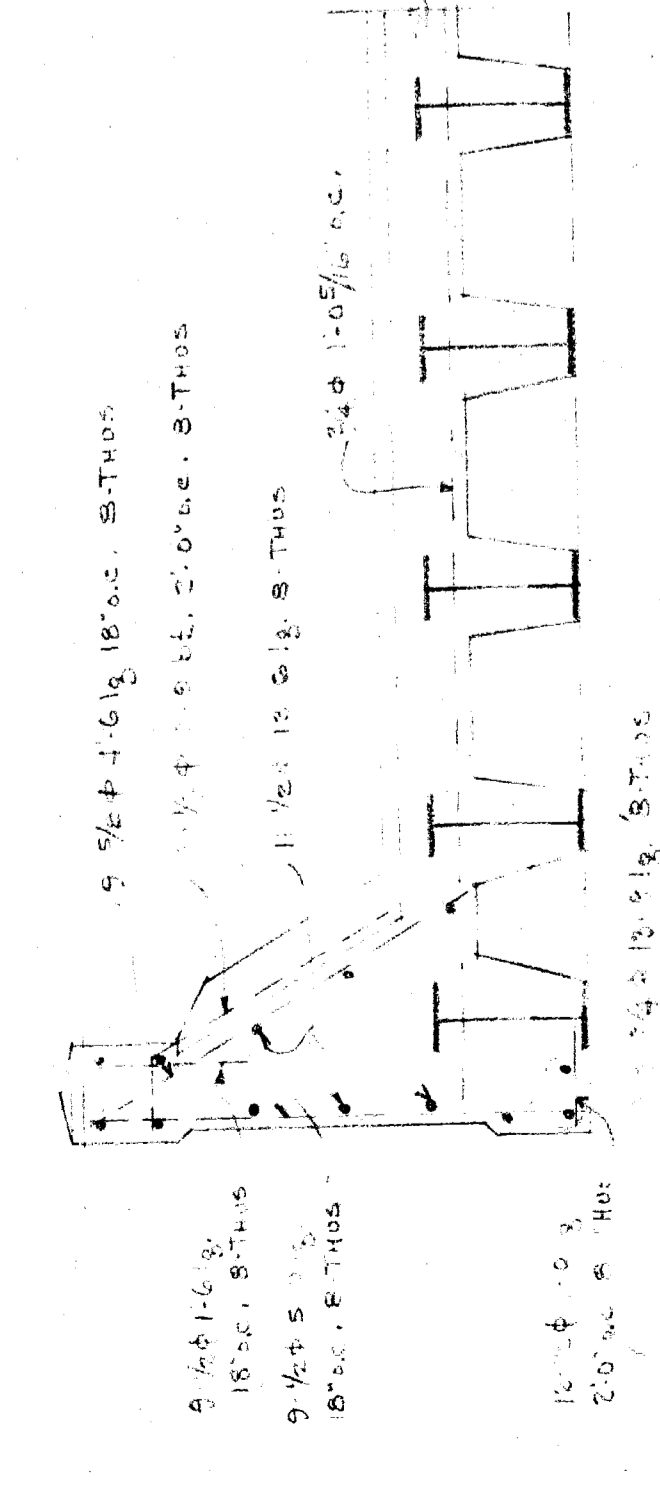


SECTION E-E
Scale 1/2" = 1'-0"

VIADUCT FOR GENERAL MOTORS COOR		LAWTON AVE & GRAND TRUNK R.R.	
VEENGE WILHELM & MOLBY		C.E. SHEEVE ASSOCIATE	
ARCHITECTS & ENGINEERS		DETROIT	
DRAWN BY	REVISED	NO. 234	SHEET NO.
TRACED BY	1-29-17		4
CHECKED			DATE Jan 21, 1917



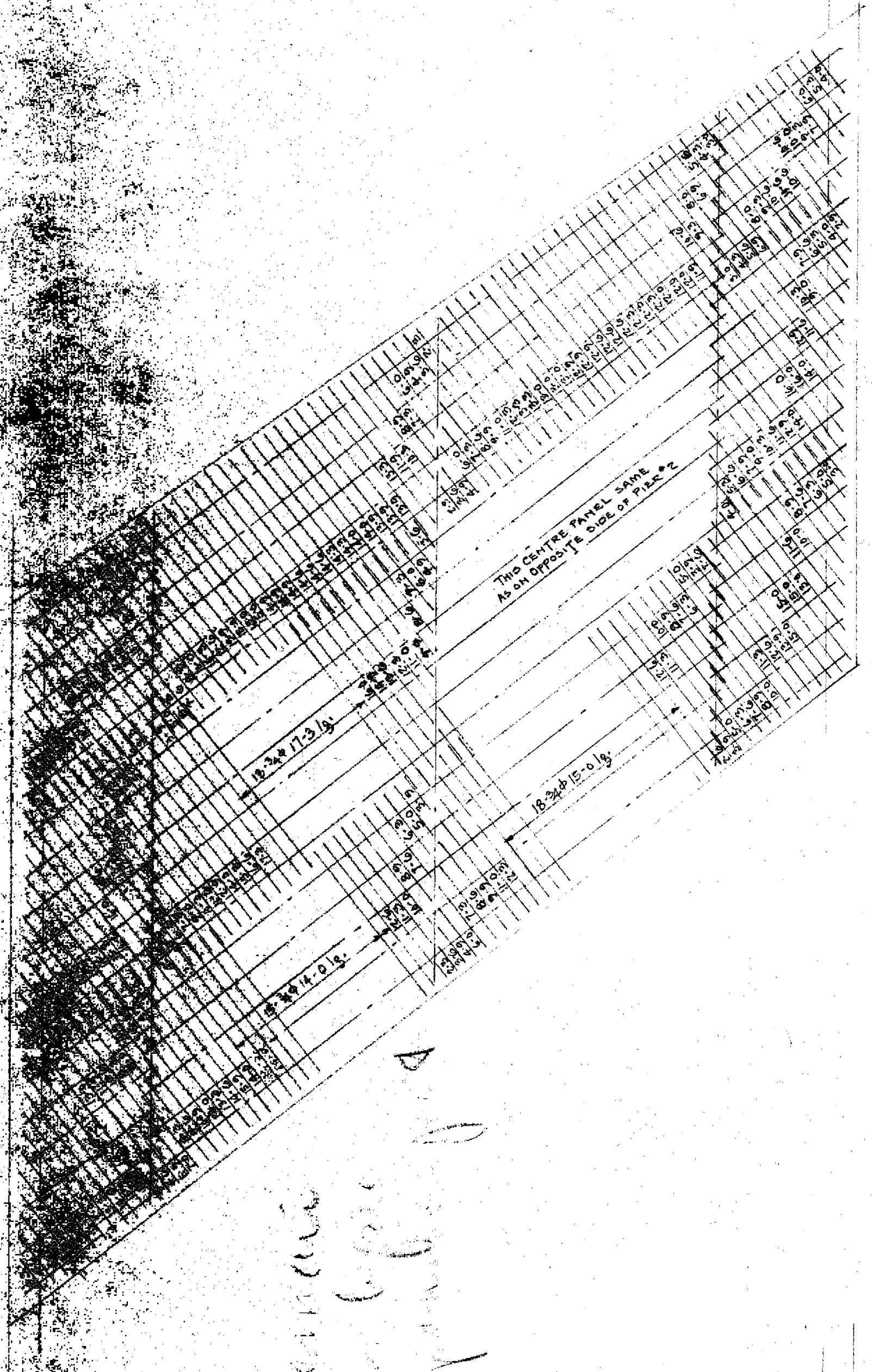
PART SECTION - A-C



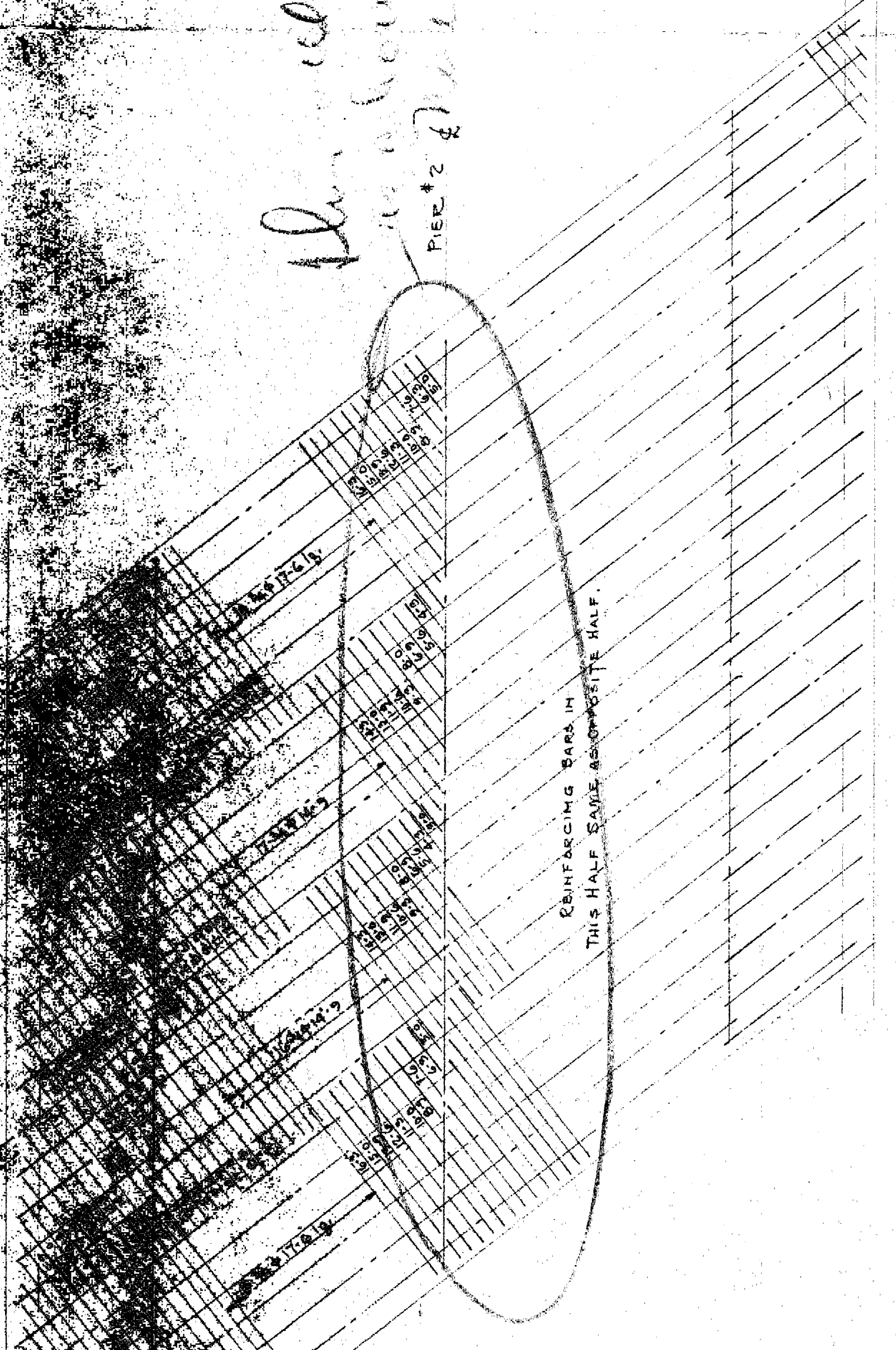
PART SECTION - B

LAWTON AVE. SUBWAY
UNDER M.C.R.C. NYCRR & G.T.R.R.
CITY OF NEW YORK

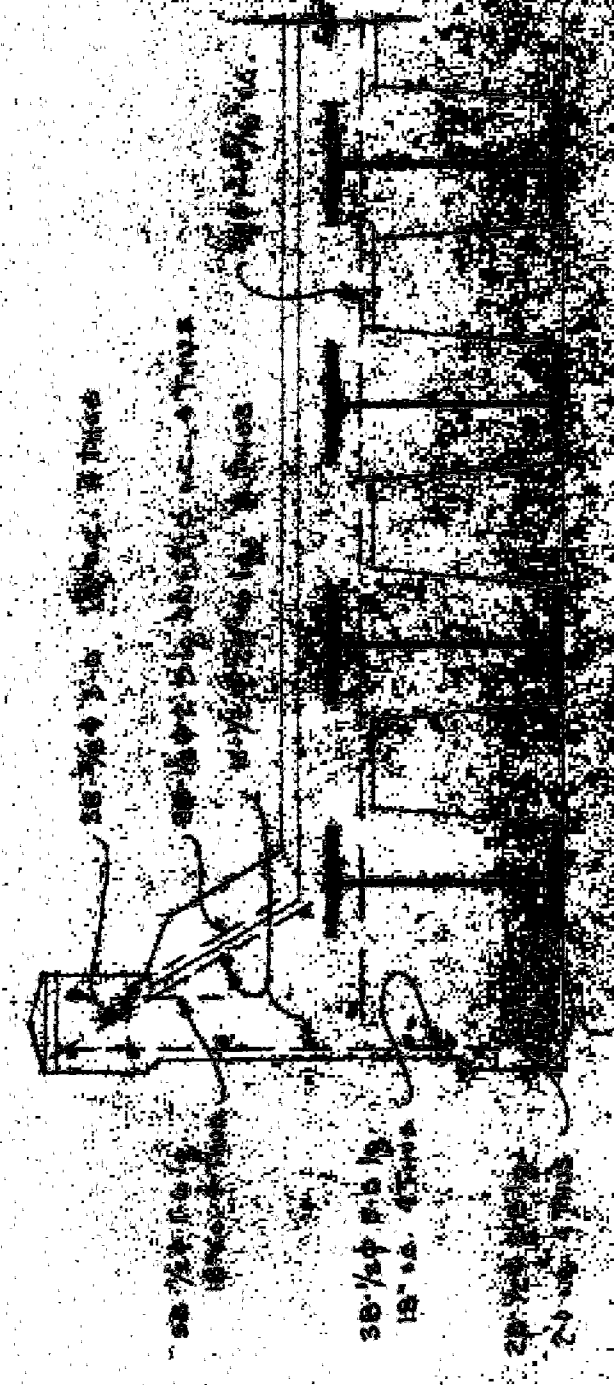
JOS. T. RYERSON & SON INC.
120 N. MICHIGAN ST. CHICAGO ILL.
100 N. WASHINGTON ST. CLEVELAND OHIO
100 N. WASHINGTON ST. NEW YORK N.Y.
100 N. WASHINGTON ST. BUFFALO N.Y.
DR. W.A.R. DATE 10-7-26 CONTE. NO.



*Plan of concrete
new house before
REC-2 & 3*

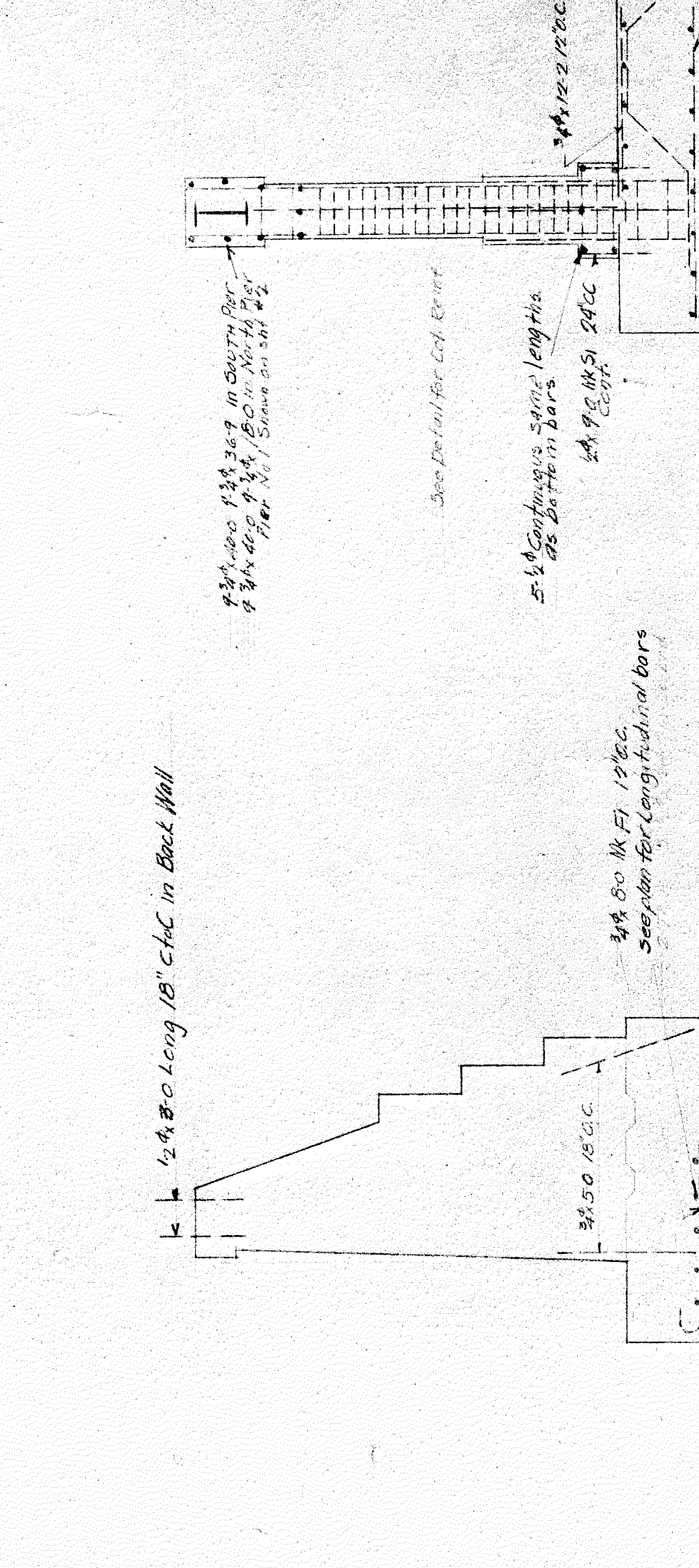
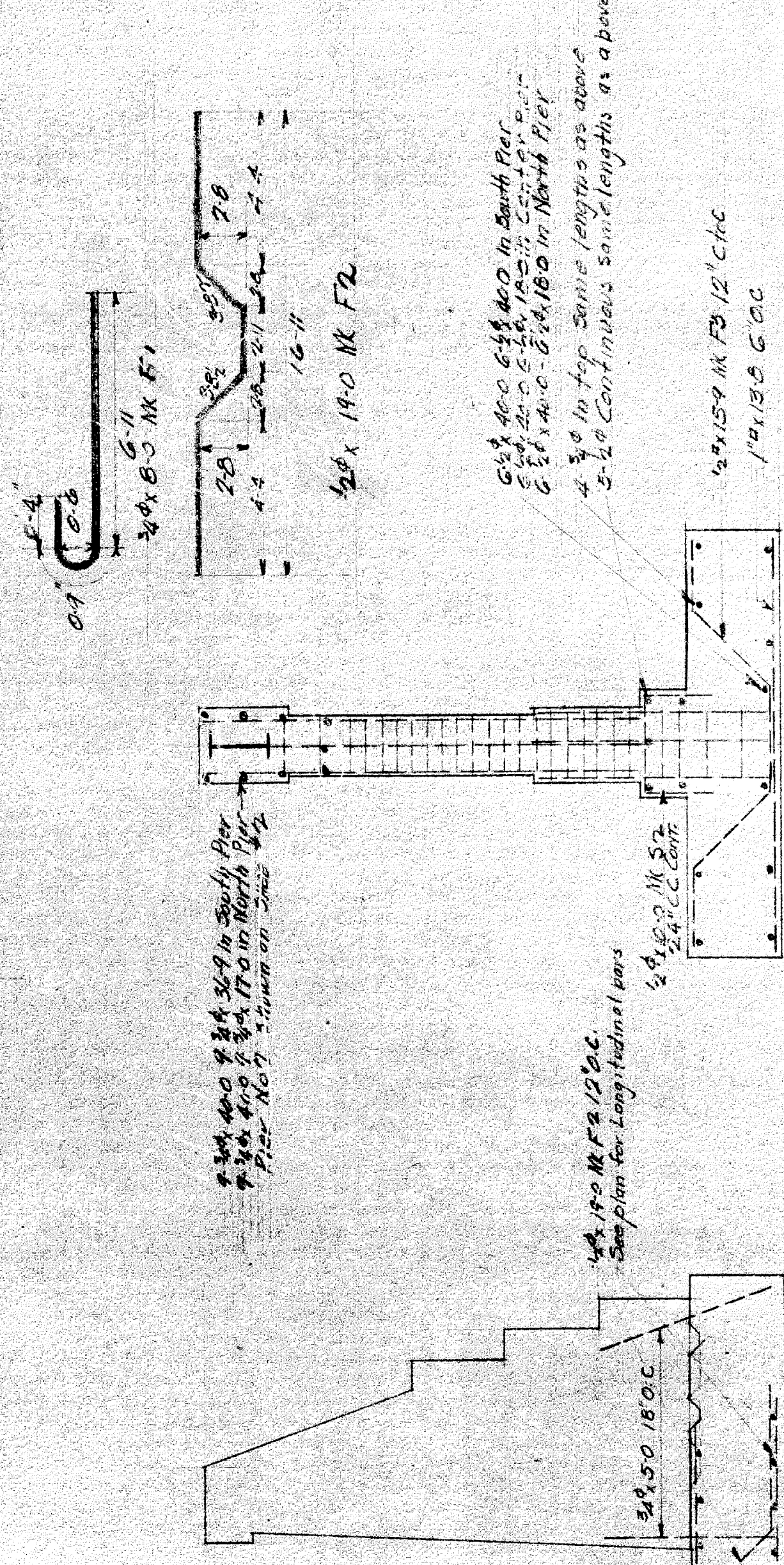
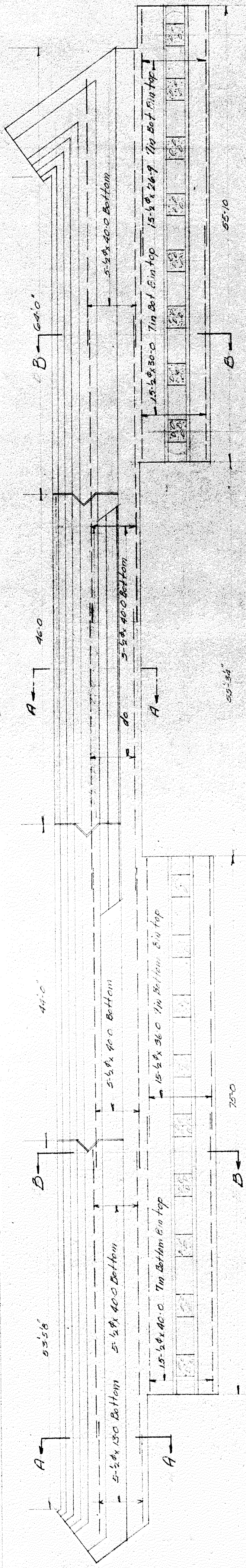


Dist. to be 3/4" at 15" o.c.



PICT SECTION - A-C

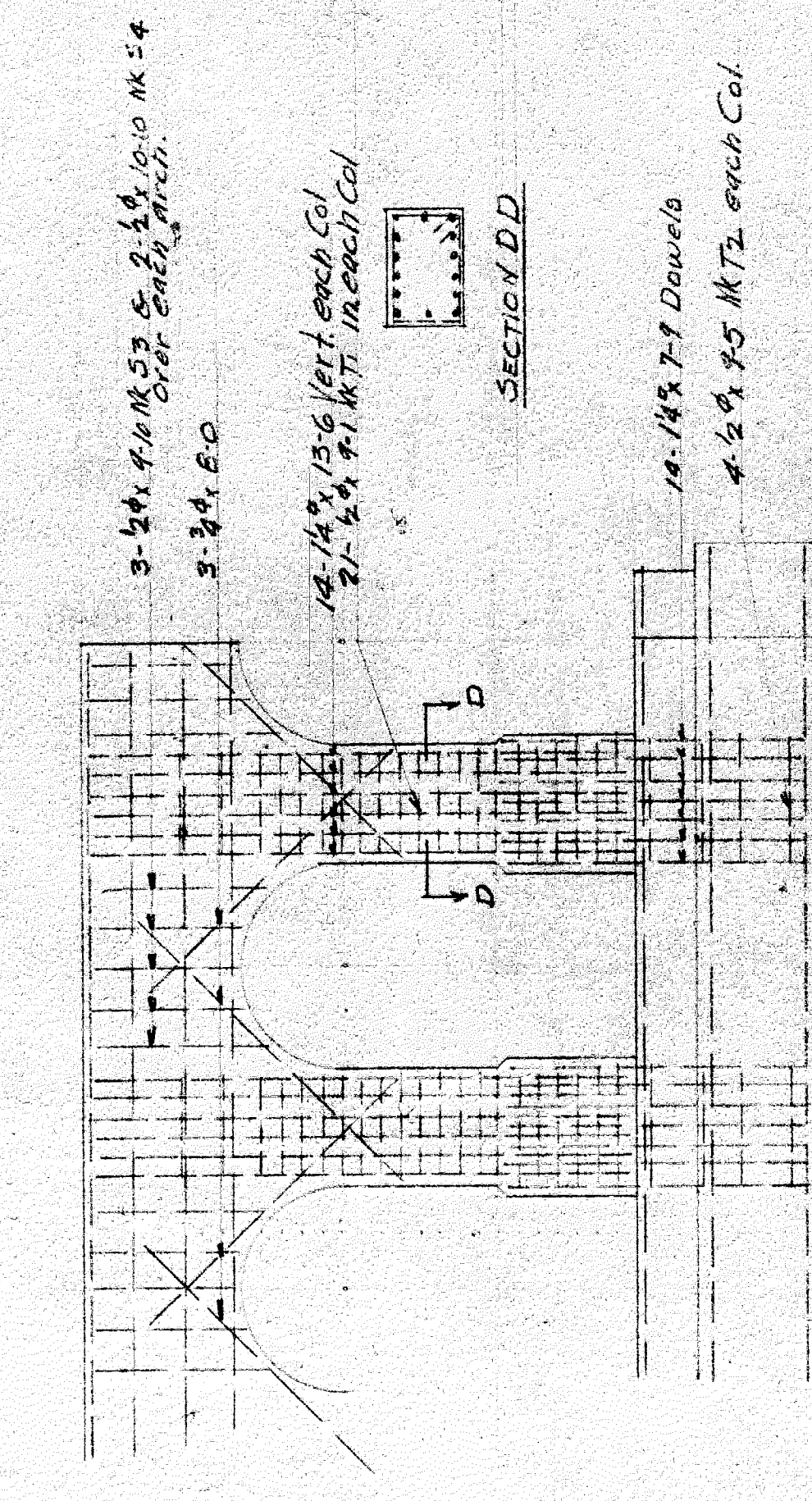




SECTION AA

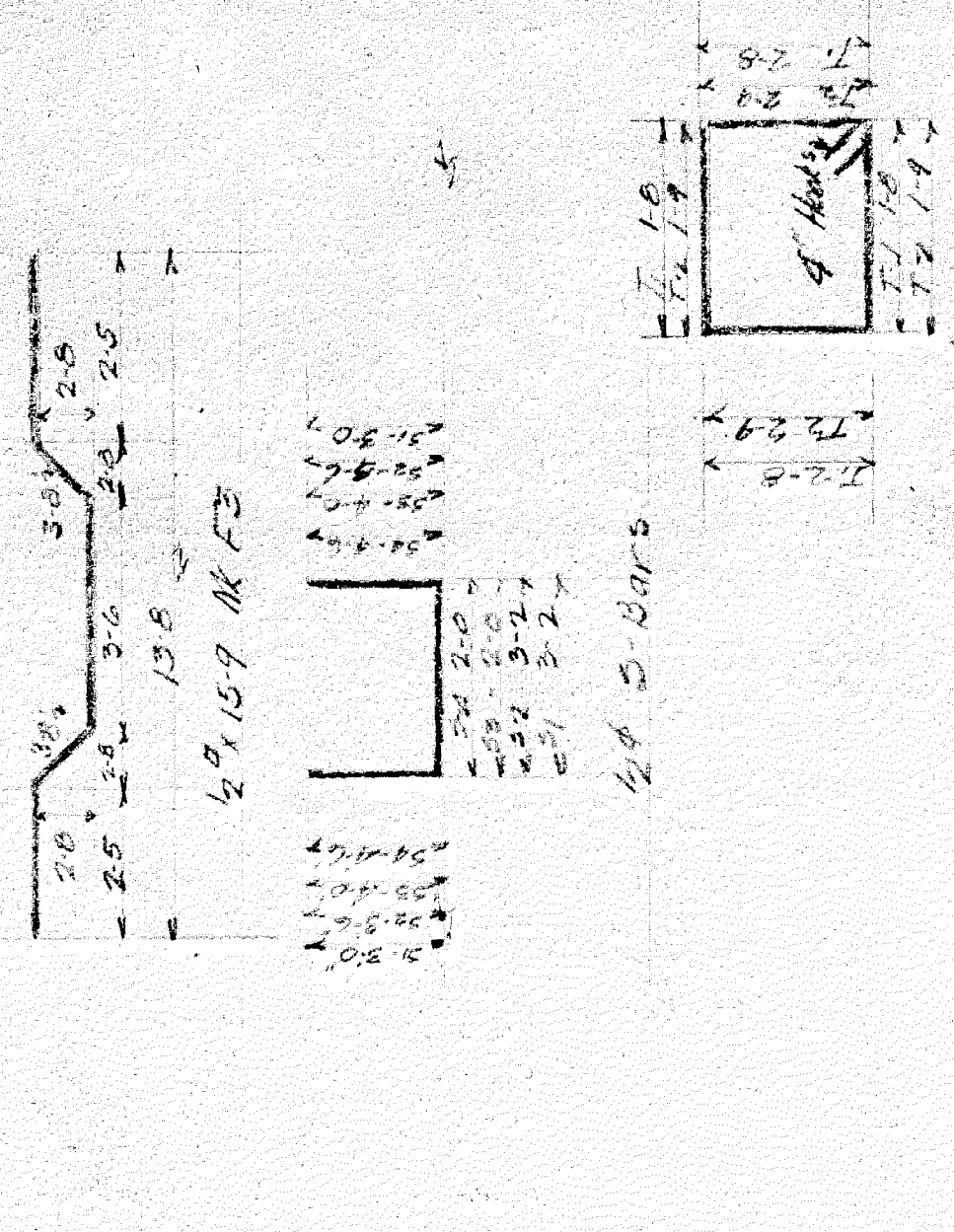
SECTION BB

CROSS SECTION OF CENTER PIERS



SECTION DD

NO	SIZE	LENG	QTS	LOCATION	MATERIAL SCHEDULE	No	SIZE	LENG	QTS	LOCATION
5	1/2"	130	51	East Abut Bottom	Center Pier Footing Cont.	93	2 1/2"	100	84	Straps in East Pier
6	1/2"	400	"	"	"	61	2 1/2"	10	51	" in North Pier
15	1/2"	360	"	SECT BB	"	546	1 1/2"	7 1/2	51	Col. Dowels
15	1/2"	300	"	"	"	546	1 1/2"	13 1/2	51	Col. Verticals
15	1/2"	249	"	"	"	234	3/4"	8 1/2	"	Over Col. Headers
82	3/4"	50	F1	SECT AA	"	114	1/2"	9 1/2	53	"
276	3/4"	50	5T	Dowels	"	76	1/2"	10 1/2	54	"
130	1/2"	170	"	SECT BB	"	813	1/2"	9 1/2	71	Col. Ties
130	1/2"	190	F2	"	"	156	2 1/2"	9 1/2	74	Dowel Ties
376	1/2"	135	"	"	"	100	2 1/2"	30	51	Dowels in Back Wall
188	1/2"	159	F3	Center Pier Footing Cont.	"					
12	1/2"	400	5T	Long South Sect.	"					
6	1/2"	400	"	Cont. Sect.	"					
6	1/2"	160	"	"	"					
6	1/2"	400	"	North Sect.	"					
6	1/2"	180	"	"	"					
8	3/4"	400	"	Long Top So.	"					
4	3/4"	400	"	Cont.	"					
4	3/4"	160	"	"	"					
4	3/4"	400	"	"	"					
4	3/4"	160	"	"	"					
10	1/2"	400	"	"	"					
5	1/2"	400	"	"	"					
5	1/2"	160	"	"	"					
5	1/2"	400	"	"	"					
5	1/2"	160	"	"	"					

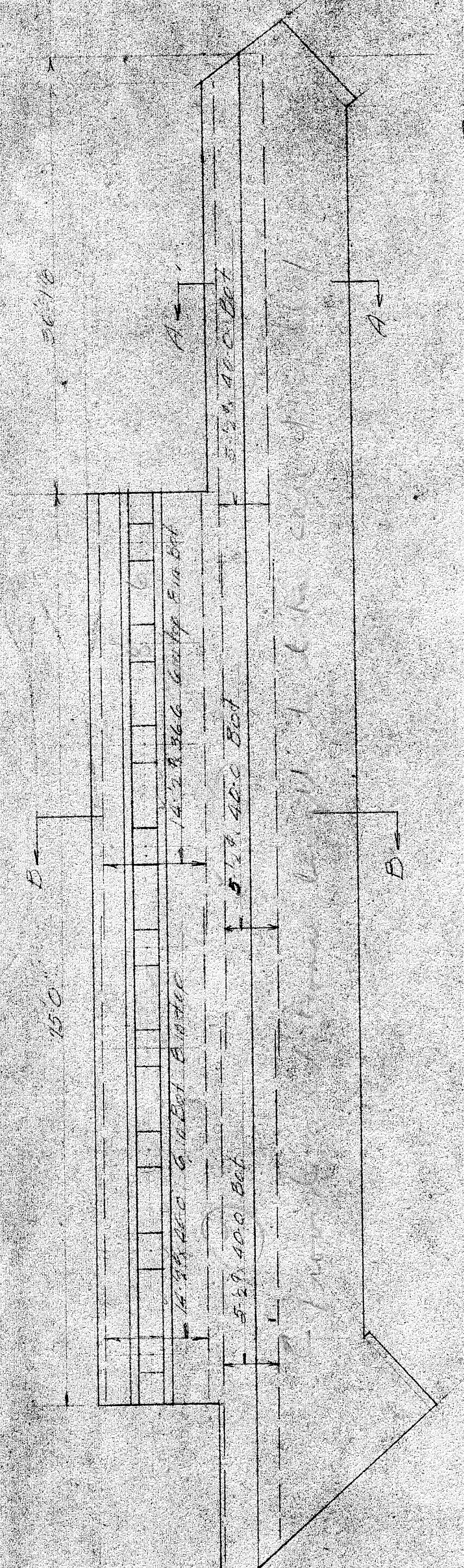


SECTION EE

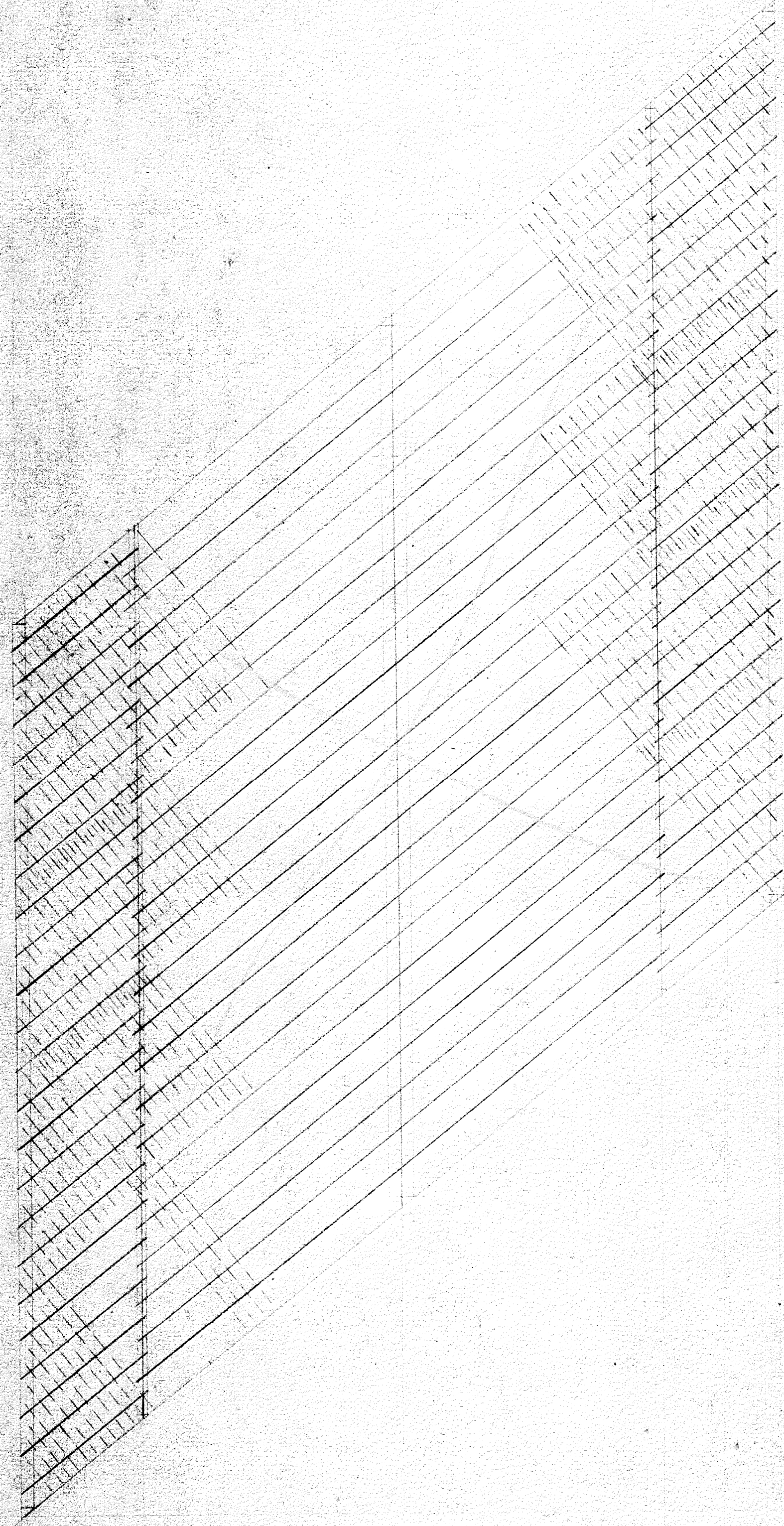
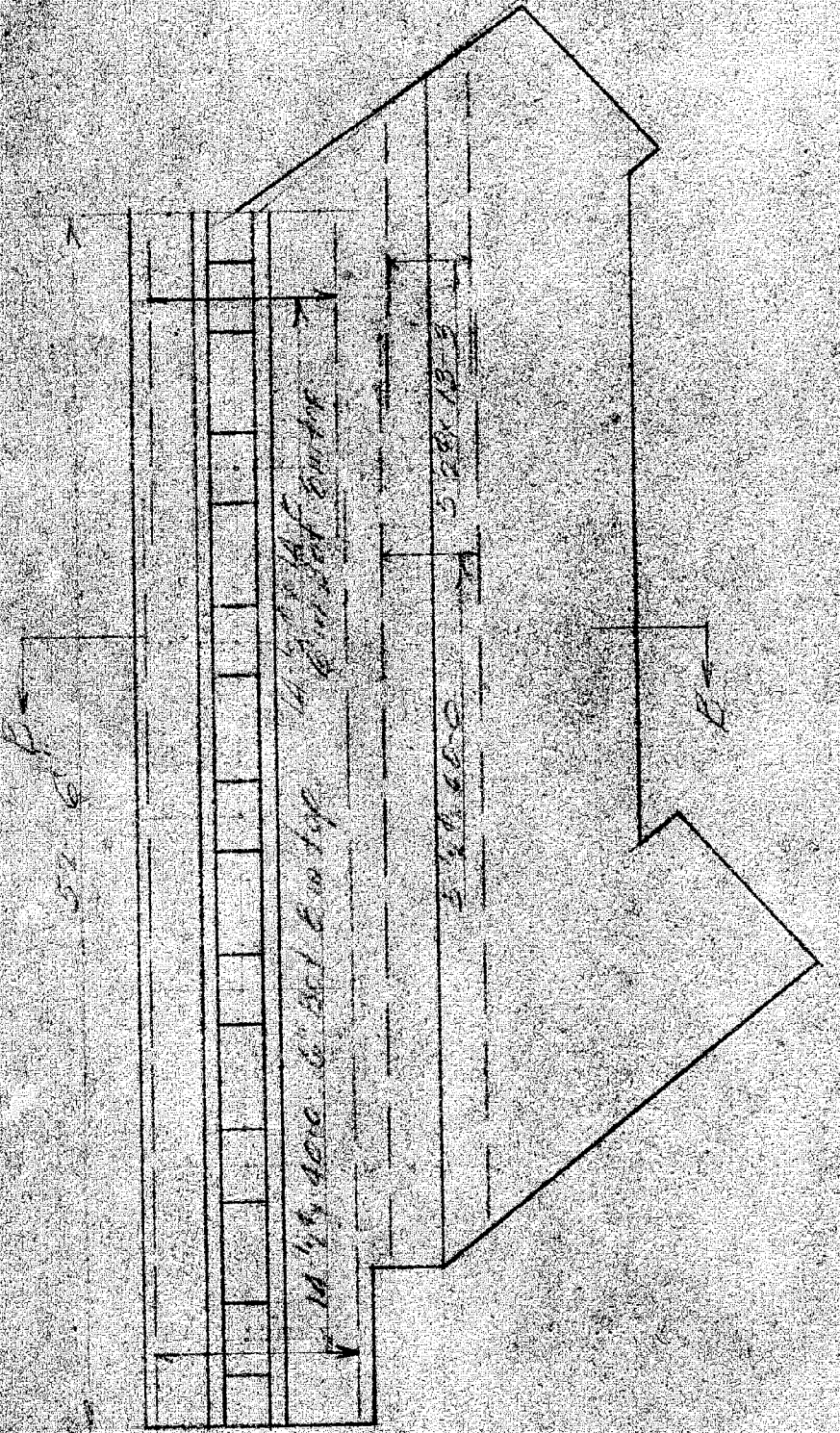
NO	SIZE	LENG	QTS	LOCATION	MATERIAL SCHEDULE	No	SIZE	LENG	QTS	LOCATION
5	1/2"	130	51	East Abut Bottom	Center Pier Footing Cont.	93	2 1/2"	100	84	Straps in East Pier
6	1/2"	400	"	"	"	61	2 1/2"	10	51	" in North Pier
15	1/2"	360	"	SECT BB	"	546	1 1/2"	7 1/2	51	Col. Dowels
15	1/2"	300	"	"	"	546	1 1/2"	13 1/2	51	Col. Verticals
15	1/2"	249	"	"	"	234	3/4"	8 1/2	"	Over Col. Headers
82	3/4"	50	F1	SECT AA	"	114	1/2"	9 1/2	53	"
276	3/4"	50	5T	Dowels	"	76	1/2"	10 1/2	54	"
130	1/2"	170	"	SECT BB	"	813	1/2"	9 1/2	71	Col. Ties
130	1/2"	190	F2	"	"	156	2 1/2"	9 1/2	74	Dowel Ties
376	1/2"	135	"	"	"	100	2 1/2"	30	51	Dowels in Back Wall
188	1/2"	159	F3	Center Pier Footing Cont.	"					
12	1/2"	400	5T	Long South Sect.	"					
6	1/2"	400	"	Cont. Sect.	"					
6	1/2"	160	"	"	"					
6	1/2"	400	"	North Sect.	"					
6	1/2"	180	"	"	"					
8	3/4"	400	"	Long Top So.	"					
4	3/4"	400	"	Cont.	"					
4	3/4"	160	"	"	"					
4	3/4"	400	"	"	"					
4	3/4"	160	"	"	"					
10	1/2"	400	"	"	"					
5	1/2"	400	"	"	"					
5	1/2"	160	"	"	"					
5	1/2"	400	"	"	"					
5	1/2"	160	"	"	"					

EAST ABUTMENT & CENTER PIERS
 20 T Bars

LAWTON AVENUE SUBWAY
 Contractors
 City of Detroit
 JOS T OYERSON & SON INC
 1001 STEEL MACHINERY
 DETROIT CHICAGO BUFFALO MILWAUKEE ST. LOUIS.
 DEBY NAT. CH. BLD. Aug 1926
 SHEET No 1



EAST ABUTEMENT PLAN
SECTIONS SHOWN ON SHEET 1



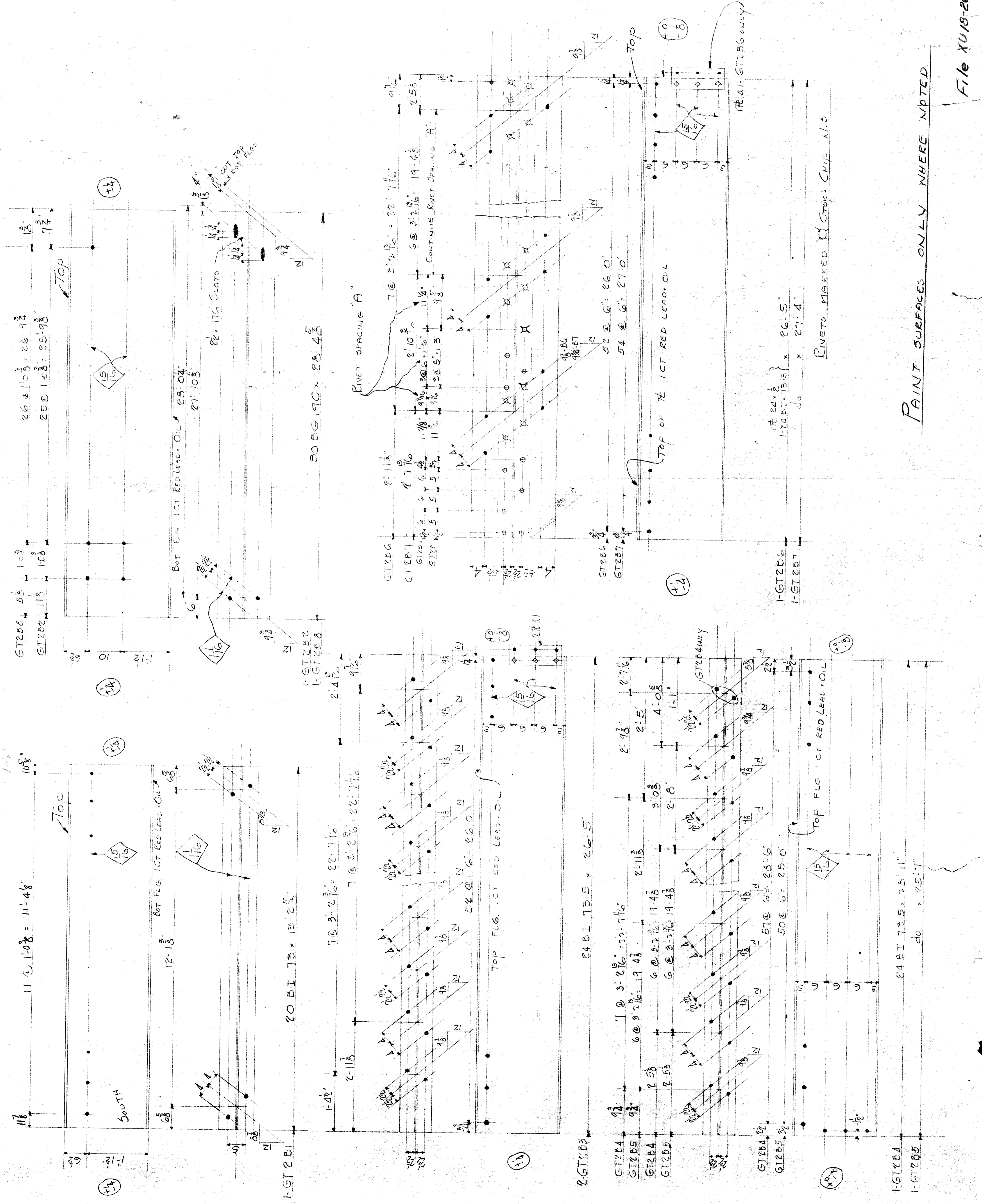
Handwritten notes:
 1. 1/2" dia. bars
 2. 1/2" dia. bars

Approved as changed
9/18/26

EAST ABUTEMENT & DECK FRAMING
LAWTON AVENUE SUBWAY
 WILHELM ALMOGER CONTRACTORS
 JOSE T. PETERSON'S SON
 DR. 01 NAT. CH. 004
 CONF. 574.44
 AUG. 21, 1926

NO. OF PIECES	MATERIAL	WT. PER FT.	LENGTH FEET	INCH MARK	REMARKS	NO.	PI.	IN.
1	20B1 73		26.5		GT2B1			
1	20B5 190		26.5		GT2B2			
1	do		26.5		GT2B3			
2	GT2B3		26.5					
4	R 6 x 1/4		26.5					
1	24B1 73.5		27.4		GT2B4			
1	do		27.4		GT2B5			
1	GT2B6		26.5					
1	24B1 73.5		27.4					
1	R 6 x 1/4		27.4					
1	GT2B7		27.4					
1	R 24 x 1/2		27.4					

SHOP PAINT CONTRACT SIZES ALL HOLES 1/16 UNLESS OTHERWISE CALLED FOR
 WHITEHEAD & KALES COMPANY
 DETROIT MICH
 ORDER 1713 DATE 3-16-26
 CITY DE DETROIT
 LANSING AVE SEAWARD
 UNDER
 MCKENNETT
 SCALE DRAWN BY
 FOLDER NO TRACED BY
 SHEET NO 1713 CHECKED BY



PAINT SURFACES ONLY WHERE NOTED

File XU18-26