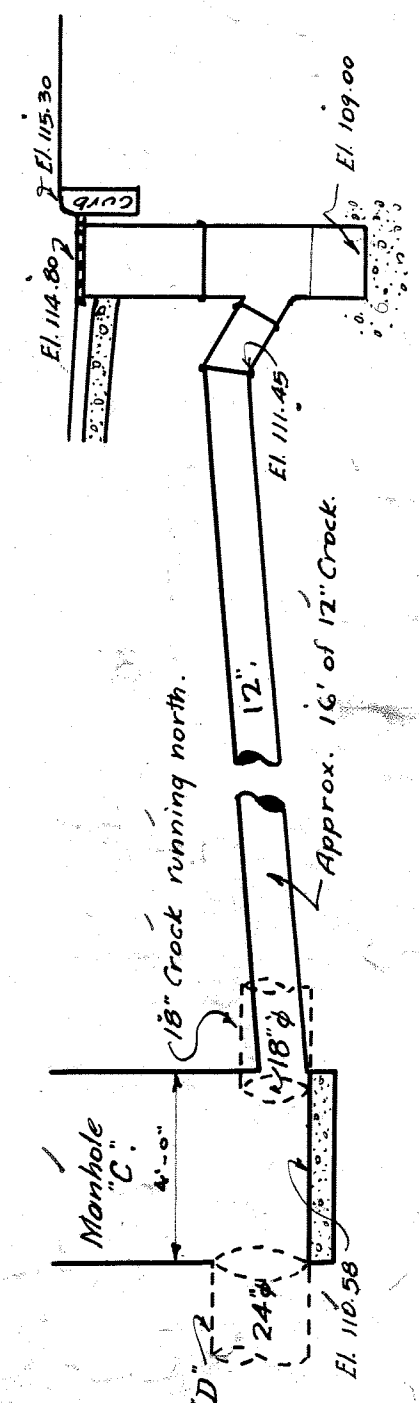
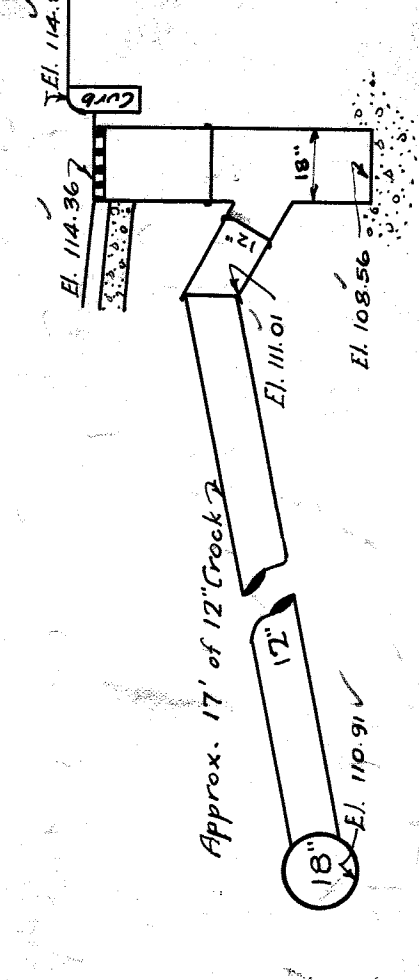


LINDEN ST. SEWER RUN



MANHOLE & CATCHBASIN "C"

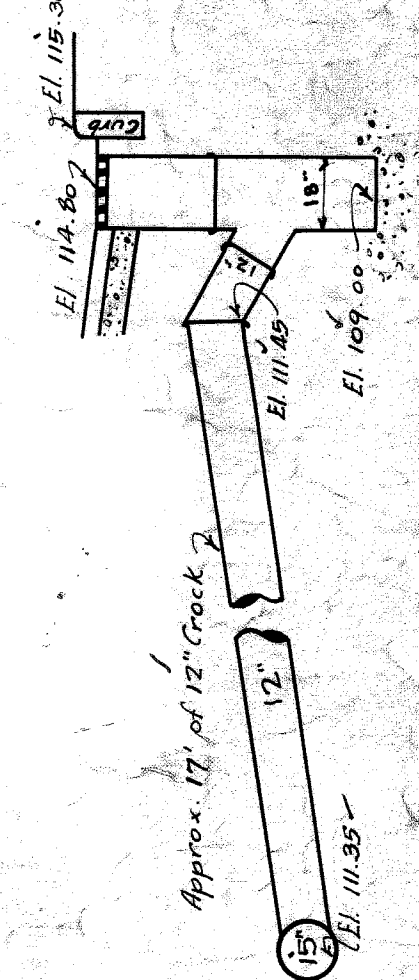
Approved:
 City Engineer *Perry J. Moran*
 Asst. Chief Engineer *M.C.R. [Signature]*
 Chief Engineer *G.T.R. [Signature]*



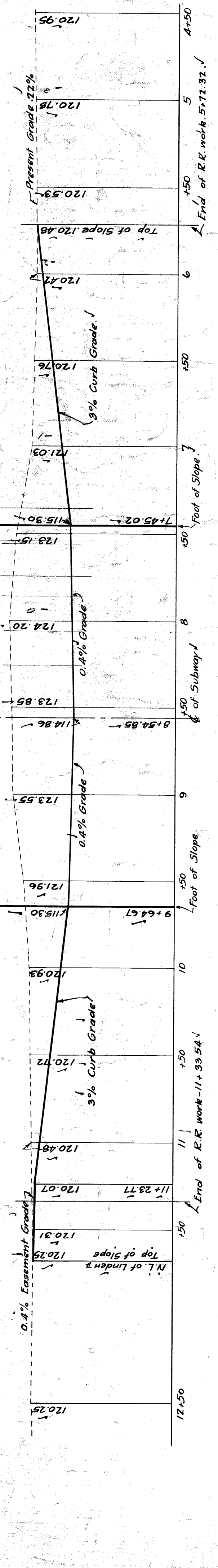
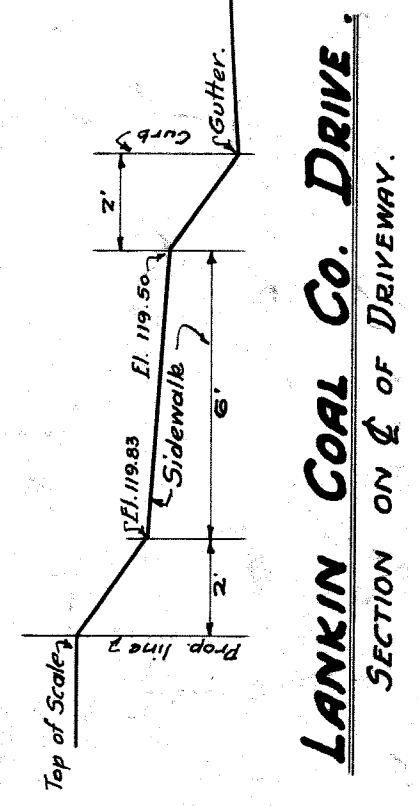
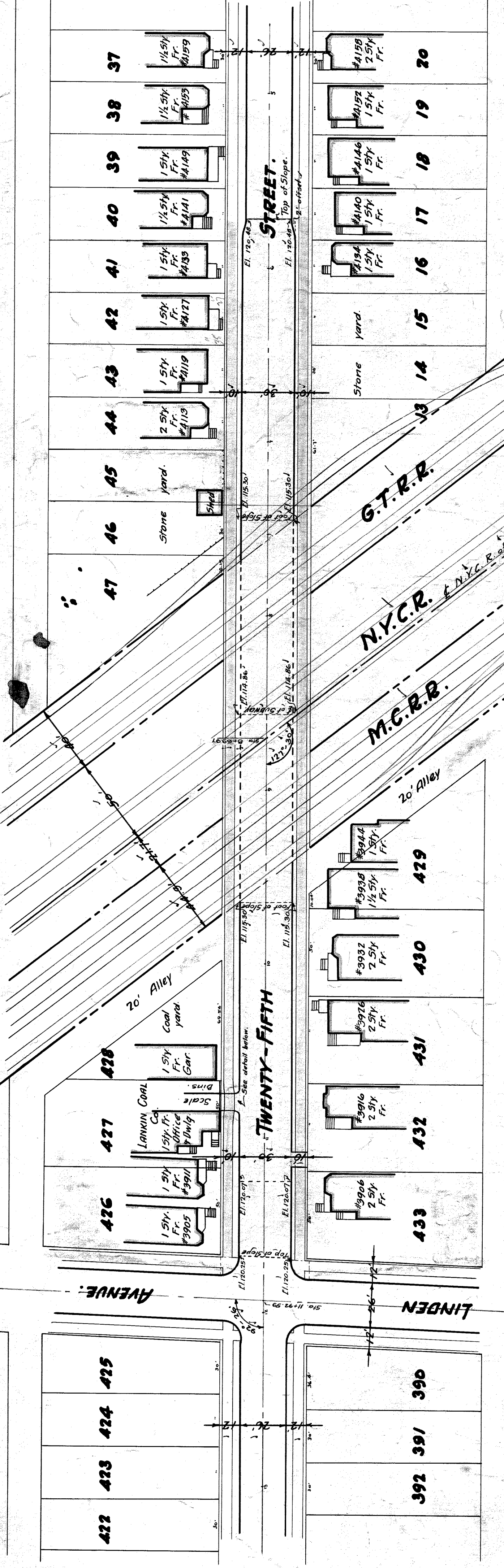
CATCHBASIN "B"

CITY OF DETROIT.
 DEPARTMENT OF PUBLIC WORKS.
 OFFICE OF CITY ENGINEER.
 DIVISION OF GRADE SEPARATION & BRIDGES.
TWENTY-FIFTH ST.

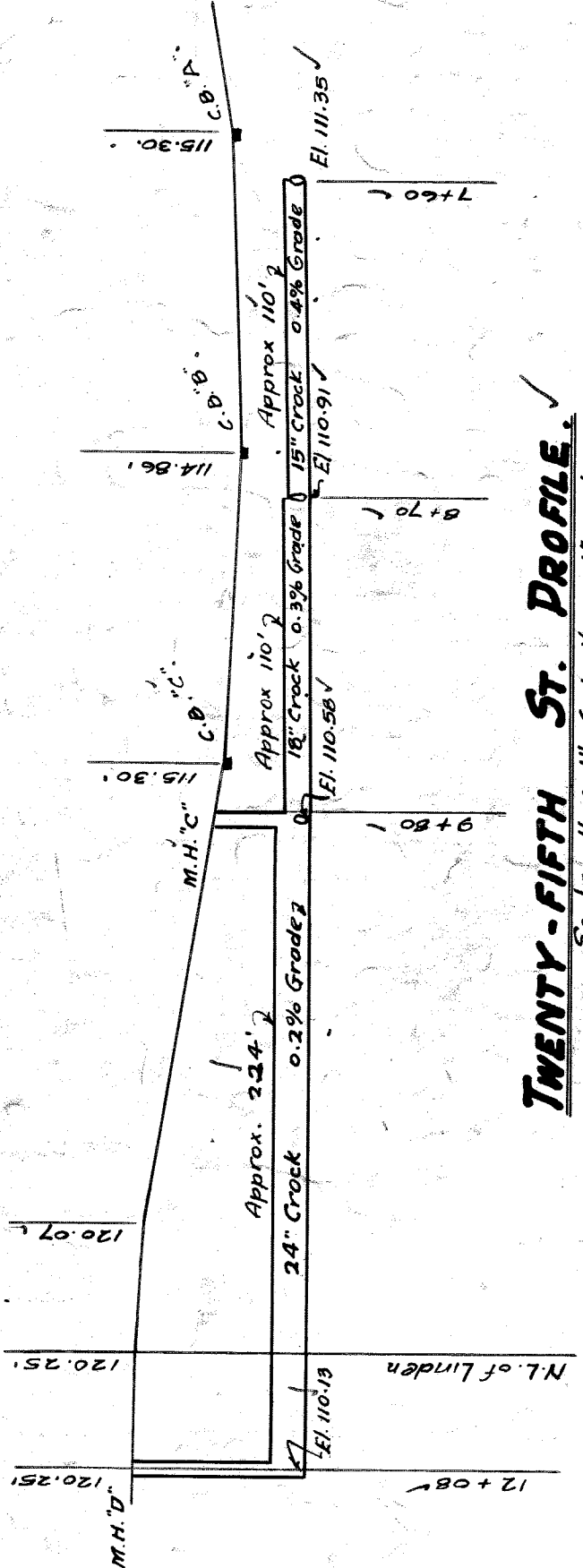
SCALES AS INDICATED.
 DRAWN: Detention Station 8/14/25.
 Lower Base 8/17/25.
 M.H. 'D' shifted East 9/10/25.
 CHG. BY: [Signature]
 7-25-27
 Field Books 419, 440.



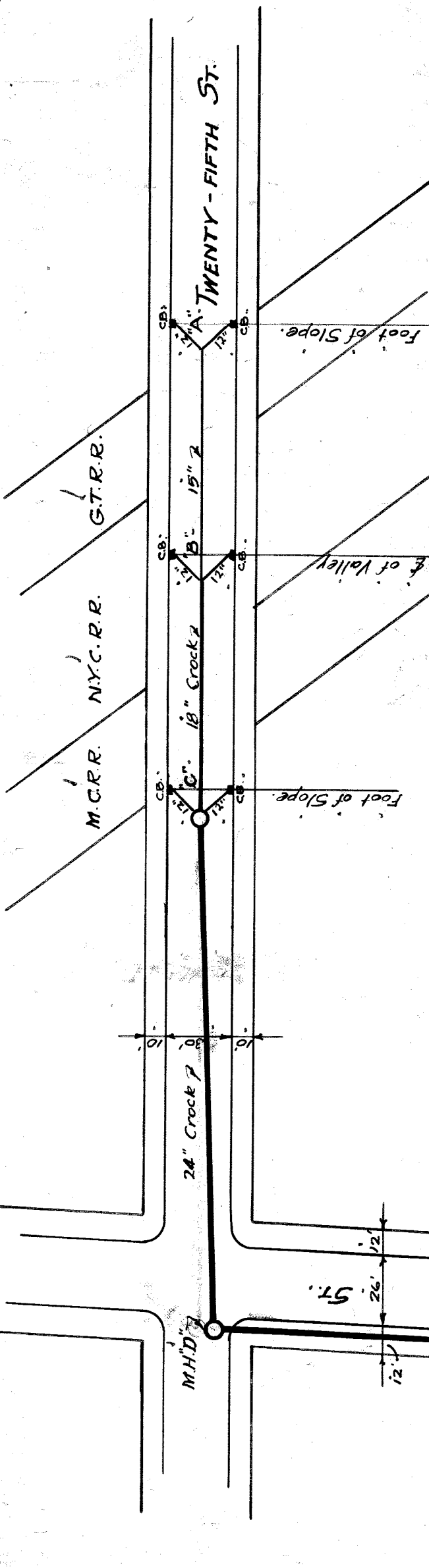
CATCHBASIN "A"



PROFILE ON TWENTY-FIFTH ST.



TWENTY-FIFTH ST. PROFILE

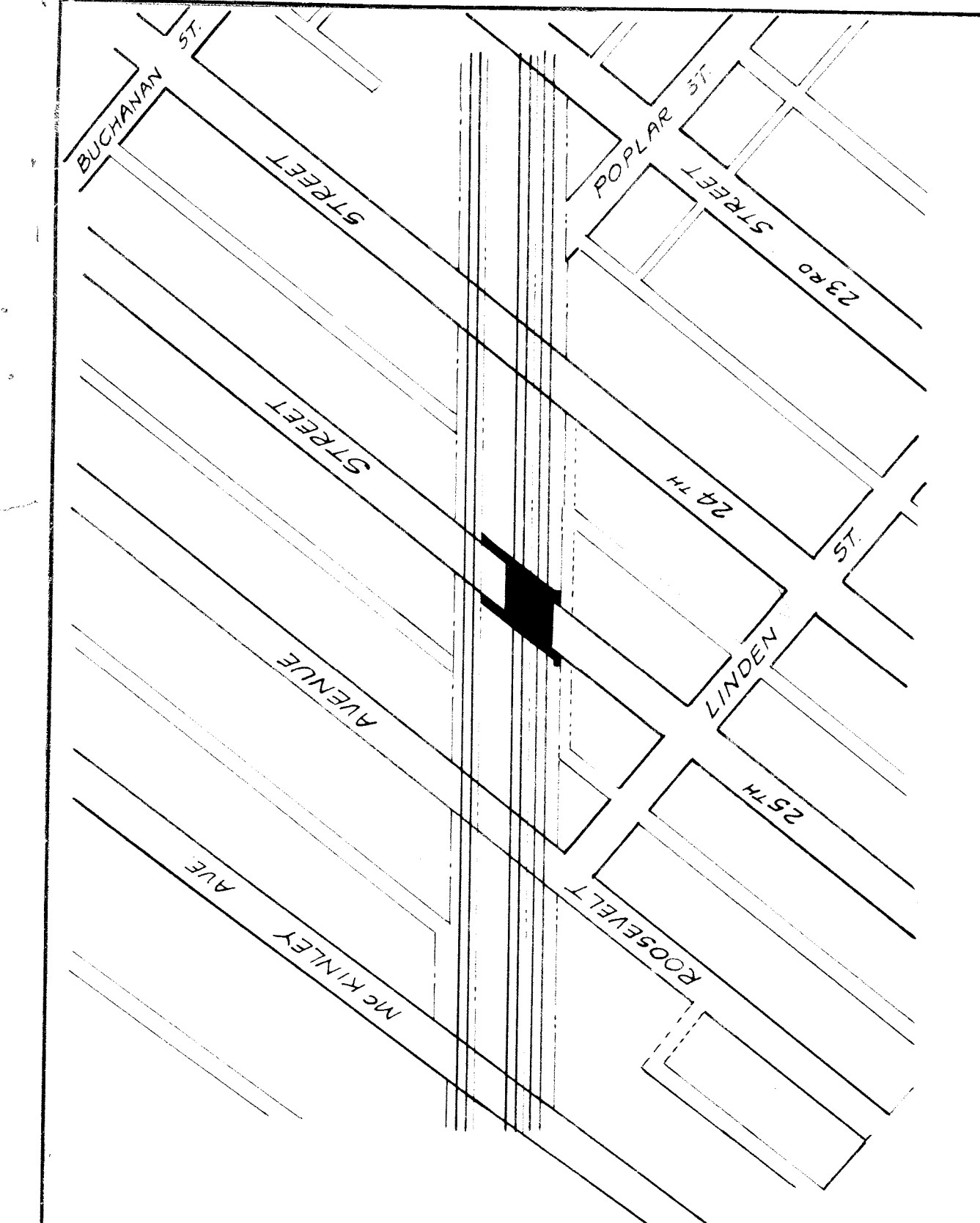


TWENTY-FIFTH ST. DRAINAGE PLAN.

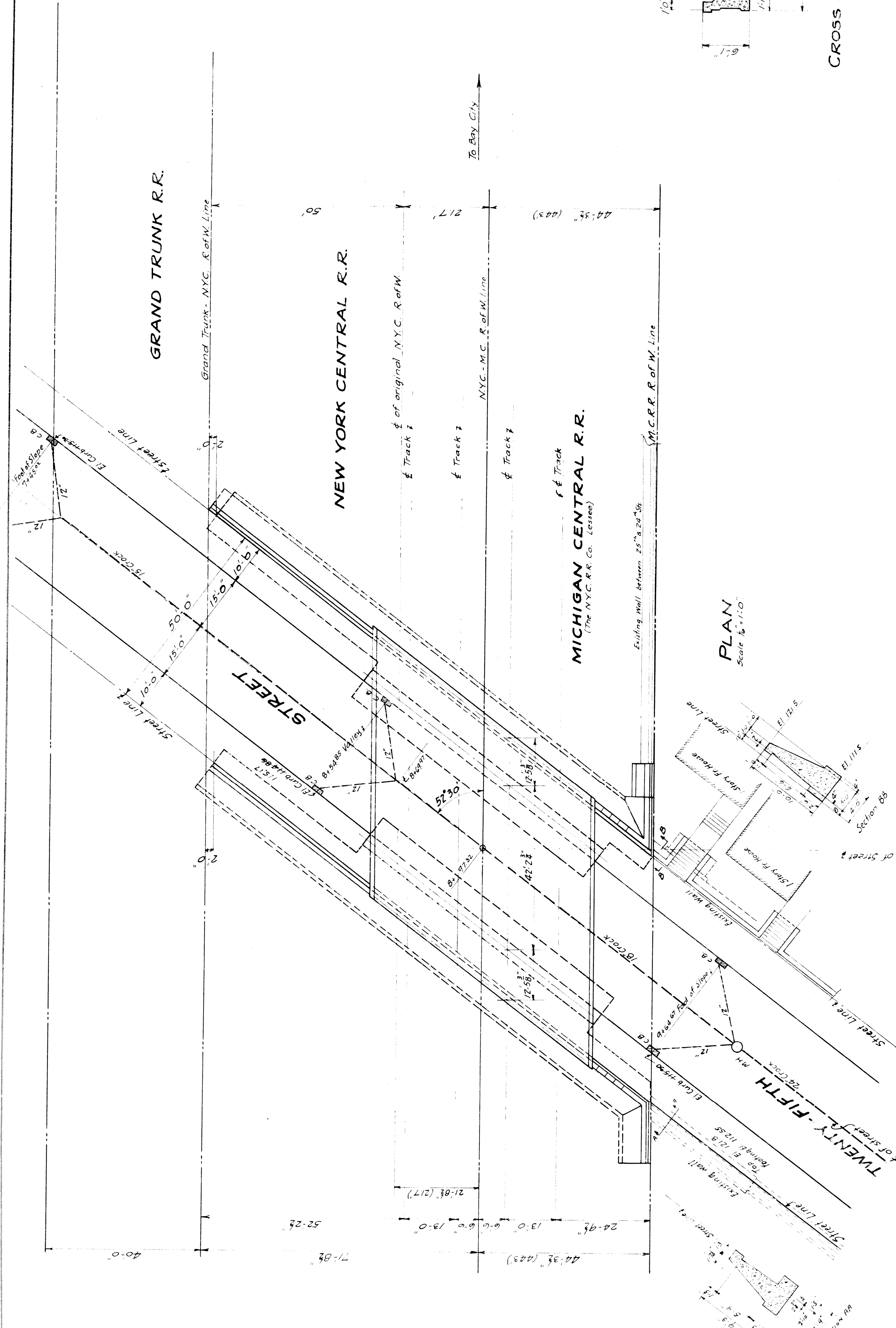
Scale 1" = 60'

LINDEN ST. PROFILE

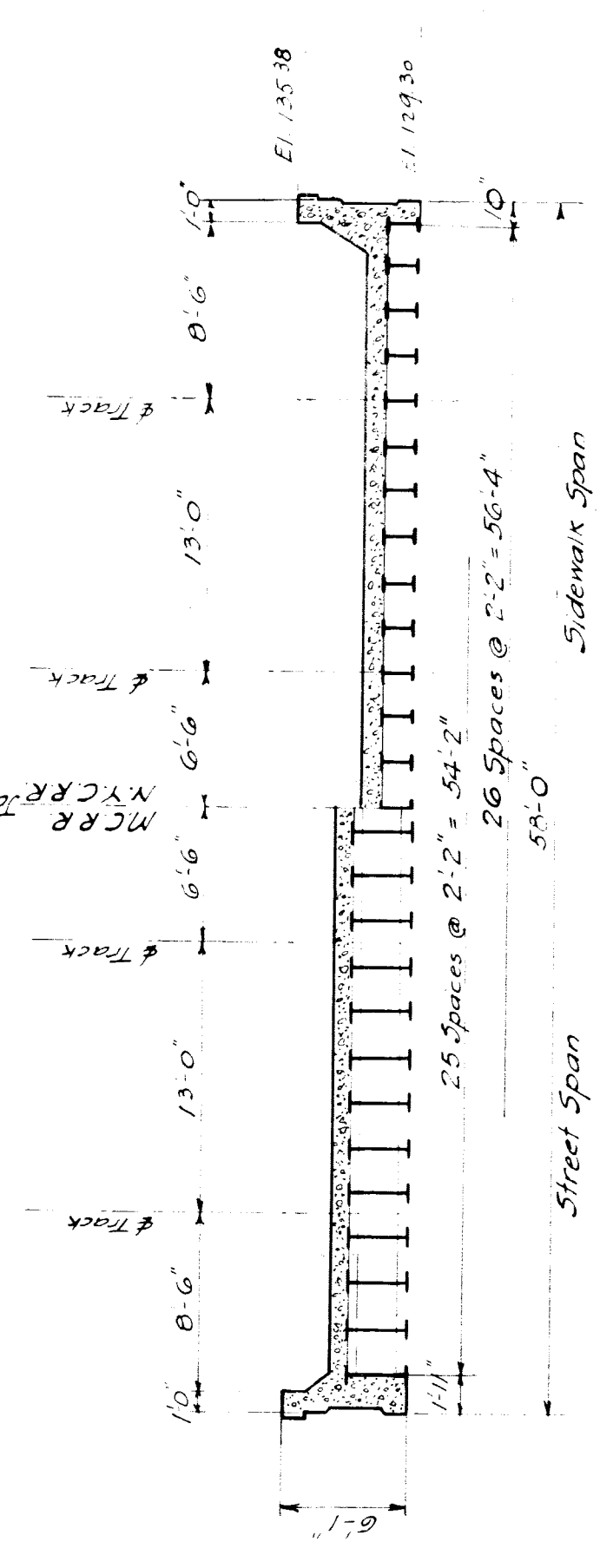
Scale Hor. 1" = 60', Ver. 1" = 10'



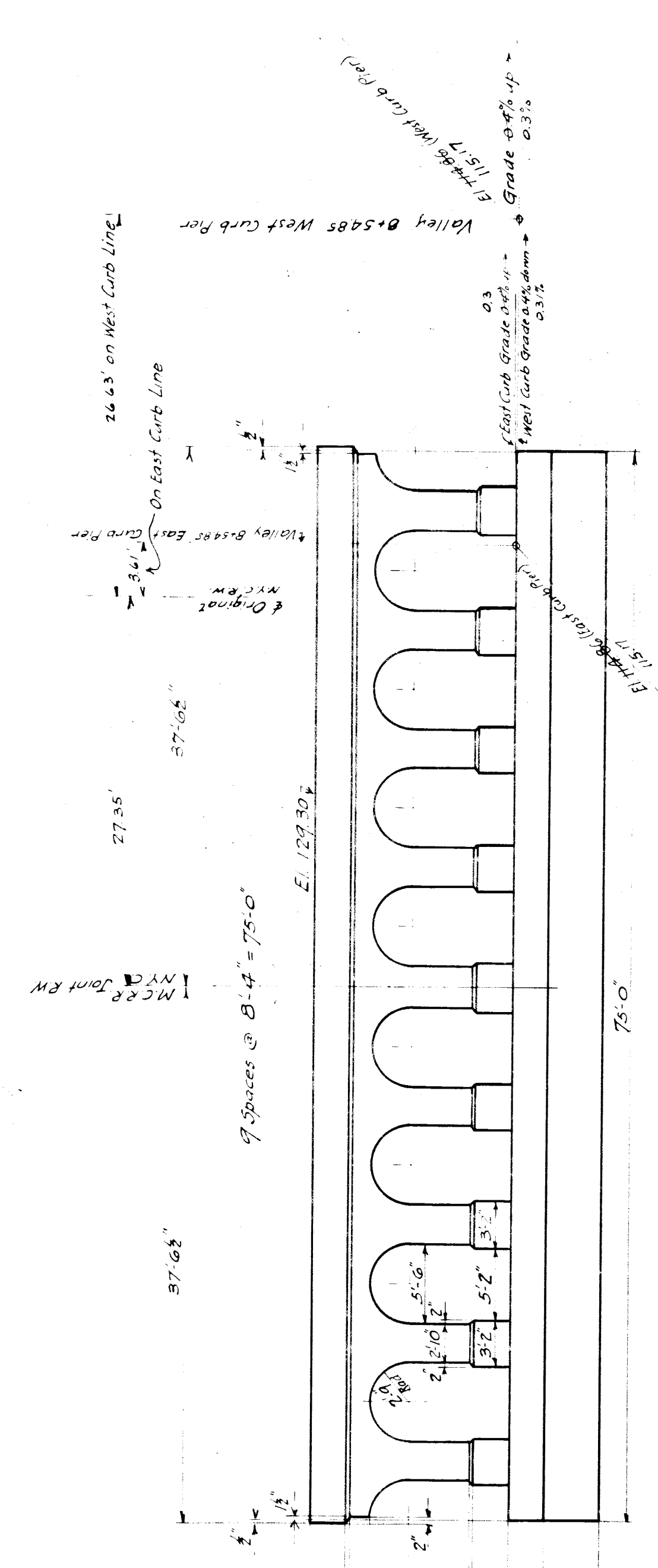
LOCATION PLAN
Scale 1" = 200'



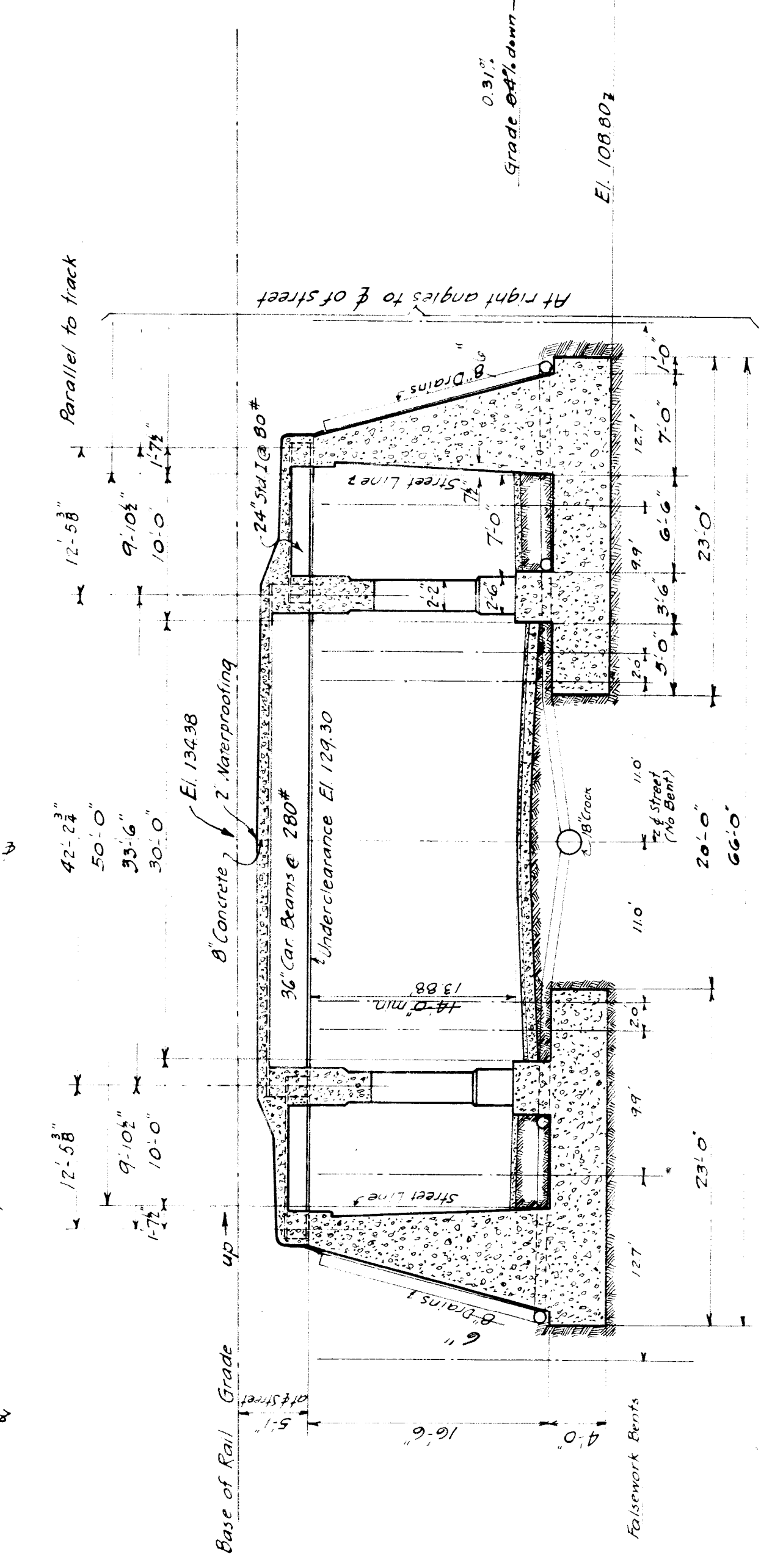
PLAN
Scale 1/2" = 110'



CROSS SECTION OF FLOOR AT RIGHT ANGLES TO TRACKS
Scale 1/2" = 110'



ELEVATION OF CURB PIERS
Scale 1/2" = 110'



LONGITUDINAL SECTION
Scale 1/2" = 110'

REVISIONS

M.C.R.R. - BAY CITY DIV.
BRIDGE 3.15 25TH ST. SUBWAY
GENERAL PLAN

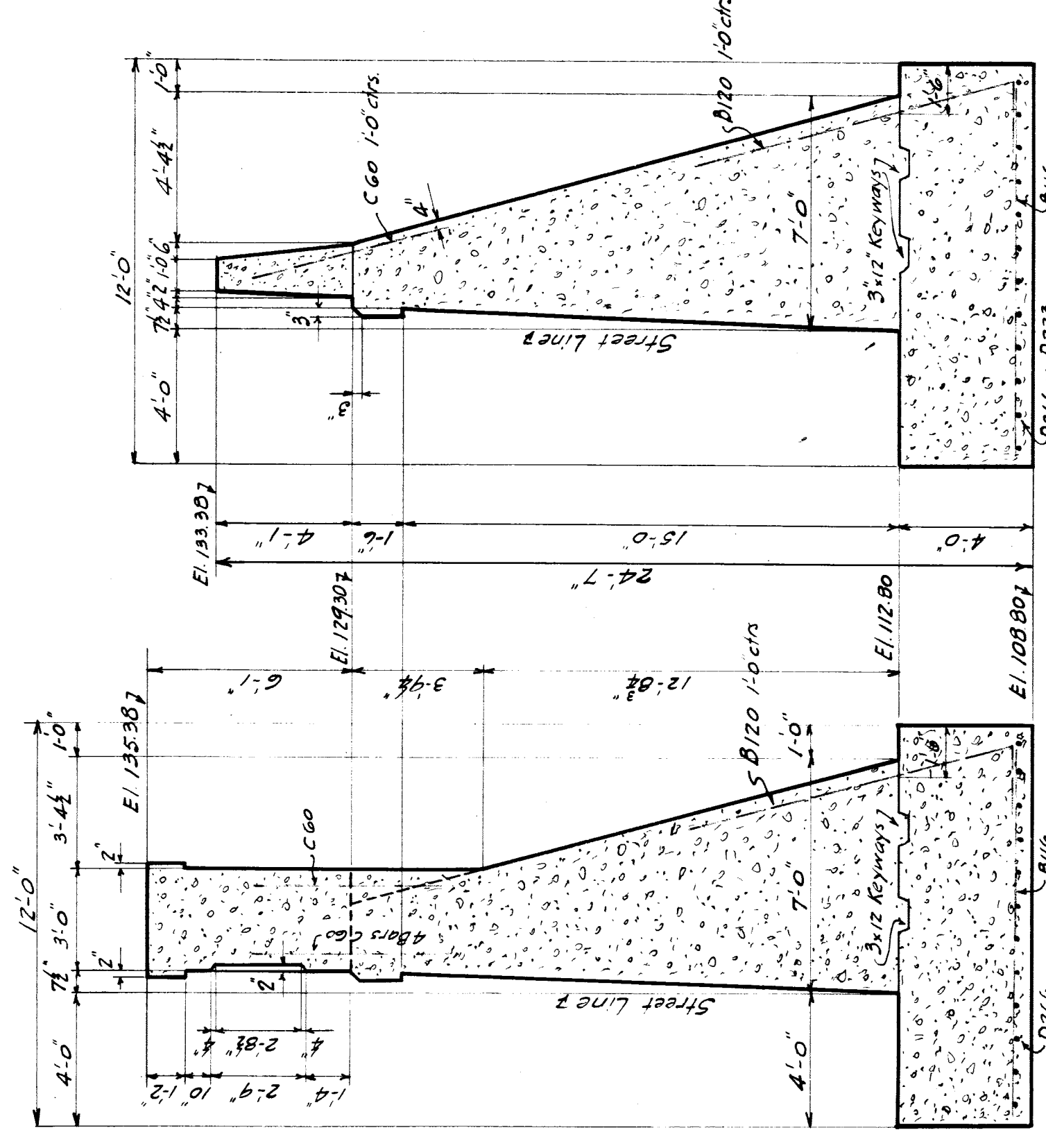
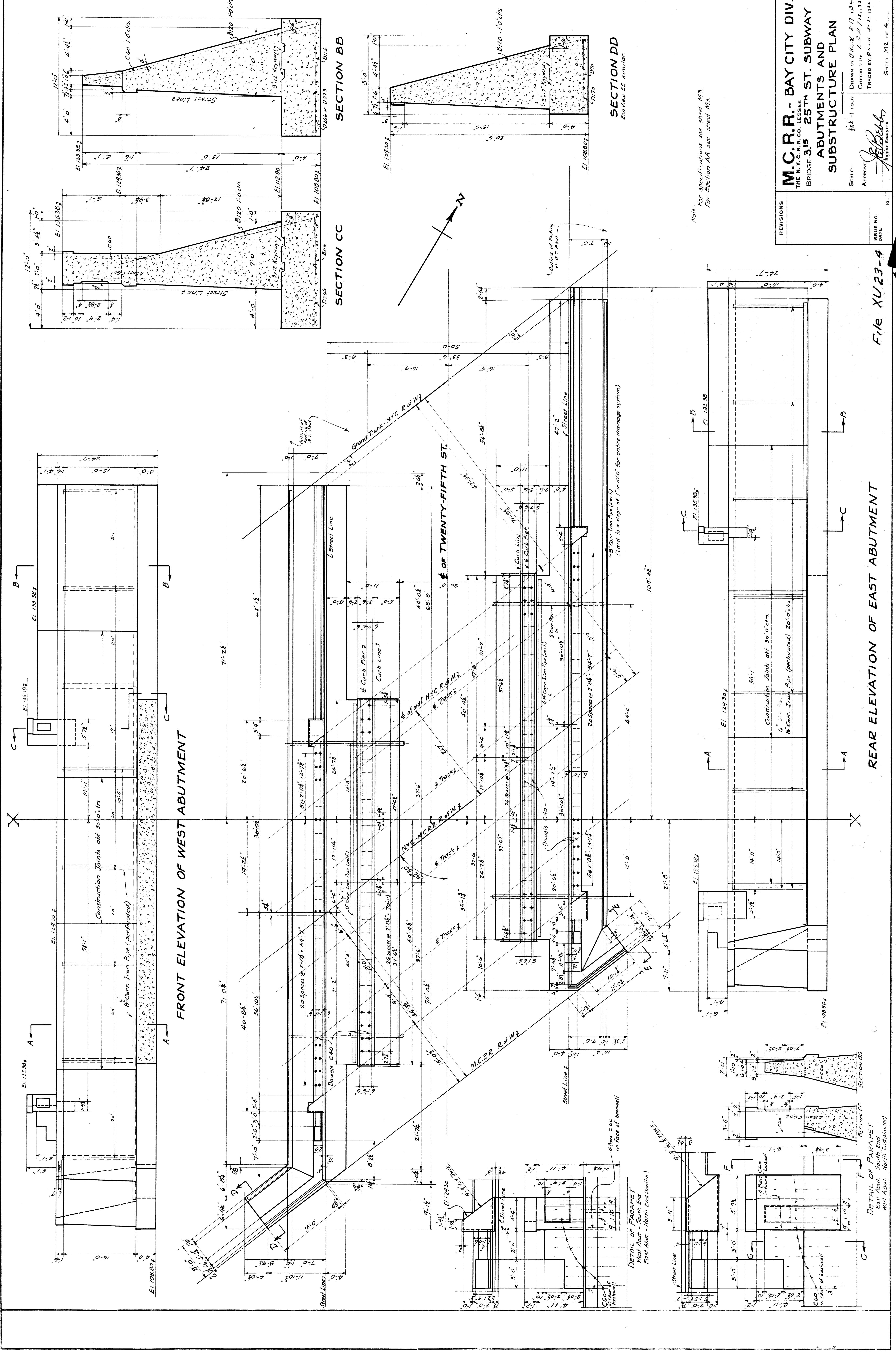
SCALE: AS INDICATED = 1 FOOT
DRAWN BY: B.M.S. L.B. 1932
CHECKED BY: L.B. L. 22. 1932
TRACED BY: D.C.S. L.B. 1932

APPROVED: *[Signature]*
BRIDGE ENGINEER

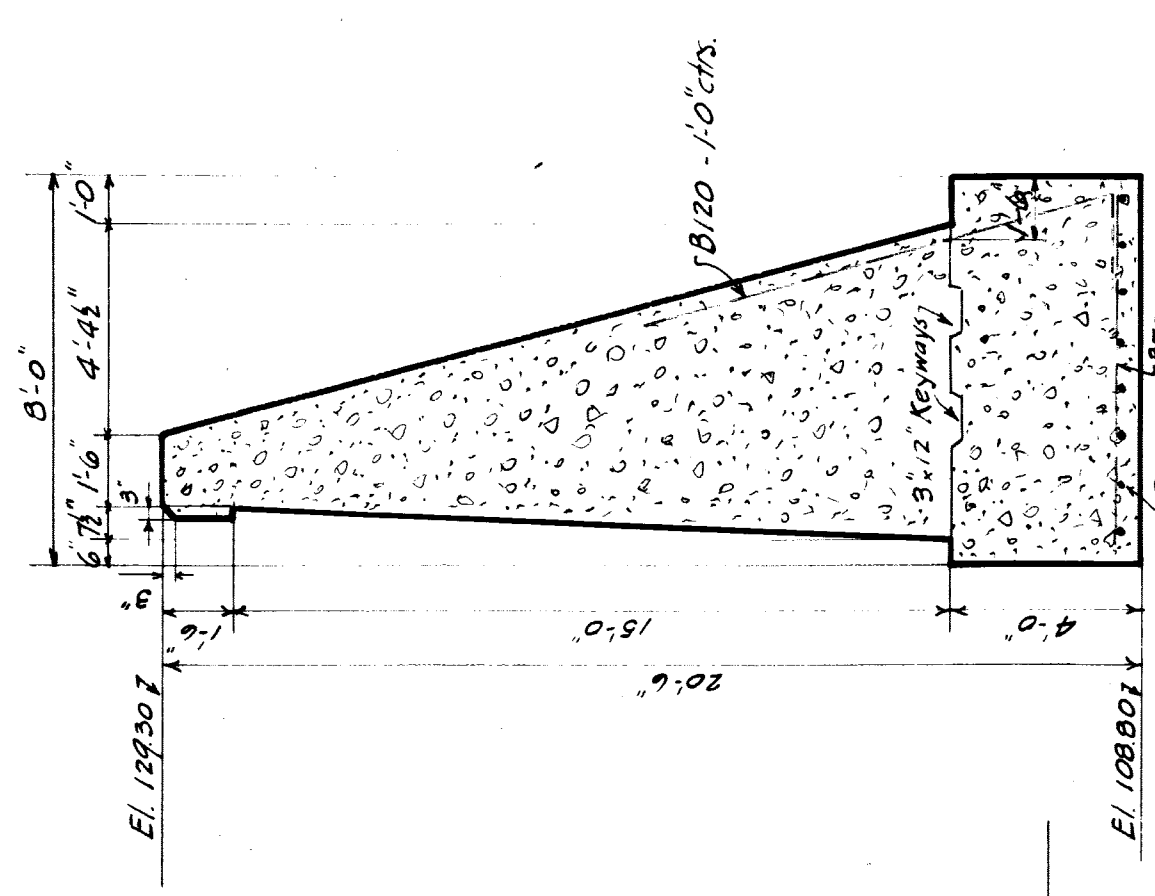
ISSUE NO. _____
DATE _____

SHEET 61 OF 1

File XU23-2



SECTION CC



SECTION DD
End view EE similar.

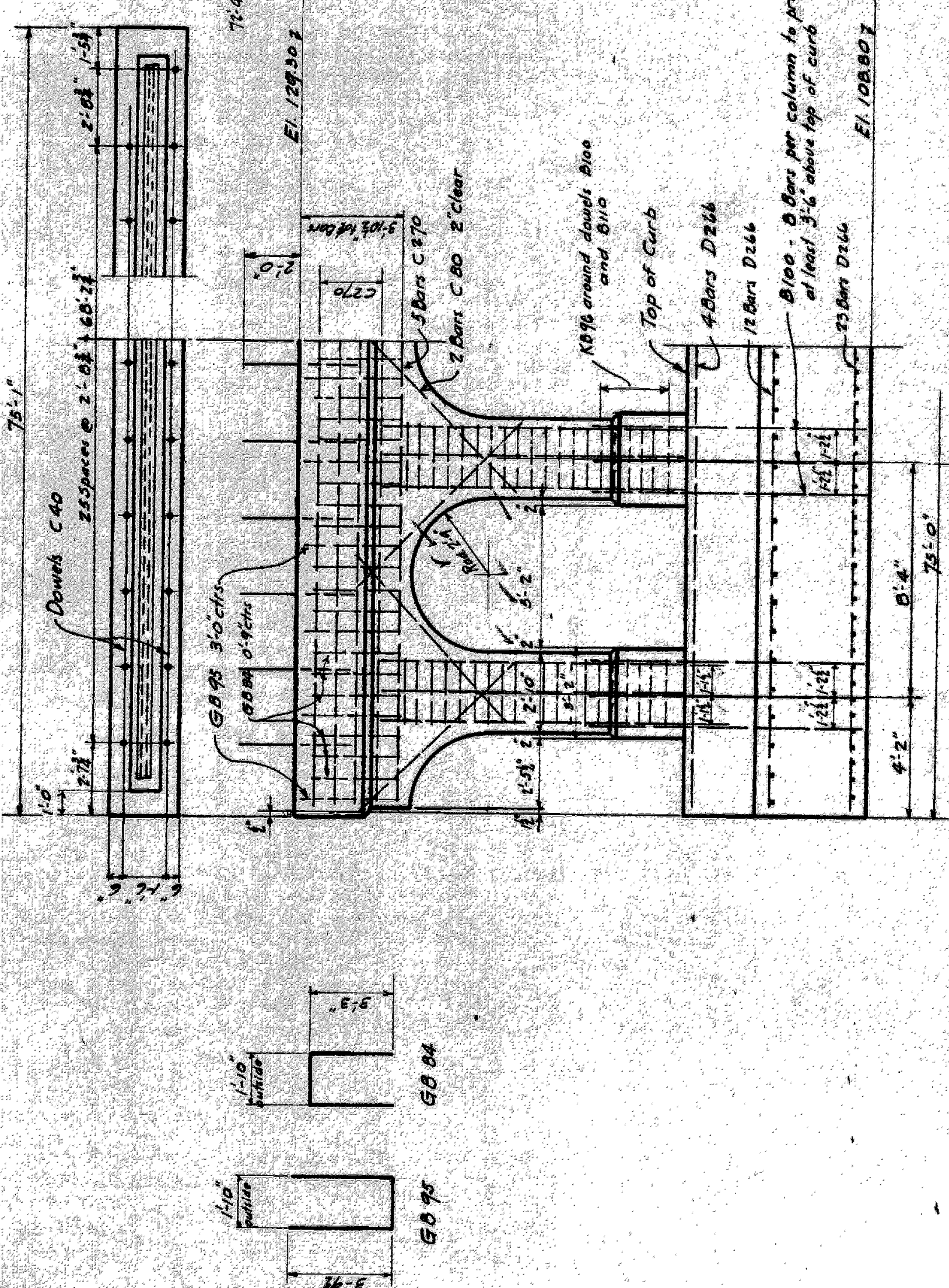
Note:
For Specifications see sheet M3.
For Section AA see sheet M3.

M.C.R.R. - BAY CITY DIV. THE N. Y. C. R. R. CO. LESSEE BRIDGE 315 25TH ST. SUBWAY ABUTMENTS AND SUBSTRUCTURE PLAN		SCALE: 1/4" = 1' FOOT DRAWN BY G.H.K. 5-17-1932 CHECKED BY L.B.A. 7-22-1932 TRACED BY G.H.K. 5-21-1932
REVISIONS 19	APPROVED L. B. A. CIVIL ENGINEER	SHEET M2 OF 4 315 Bay City #10

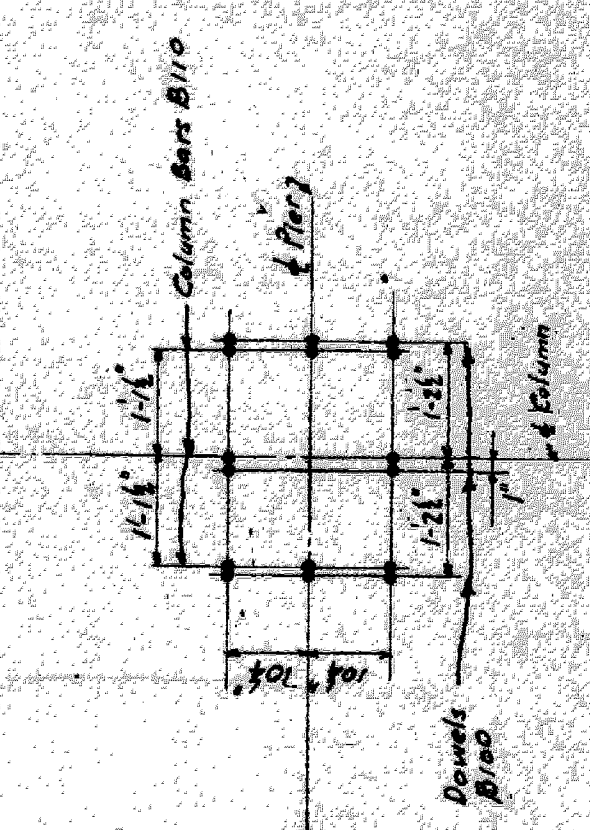
File XU23-4

REAR ELEVATION OF EAST ABUTMENT

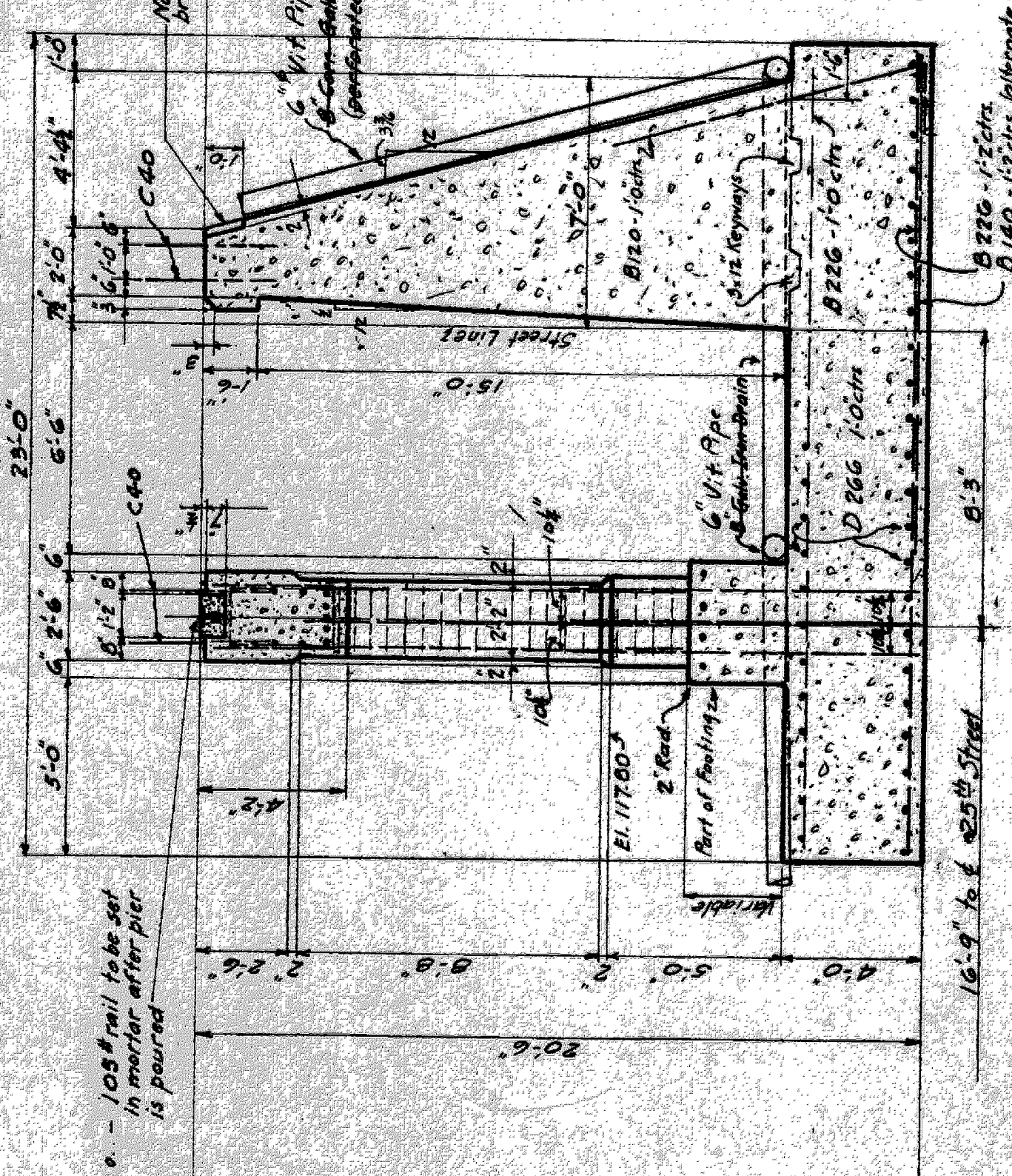
DETAIL OF PARAPET
East Abut - South End
West Abut - North End (similar)



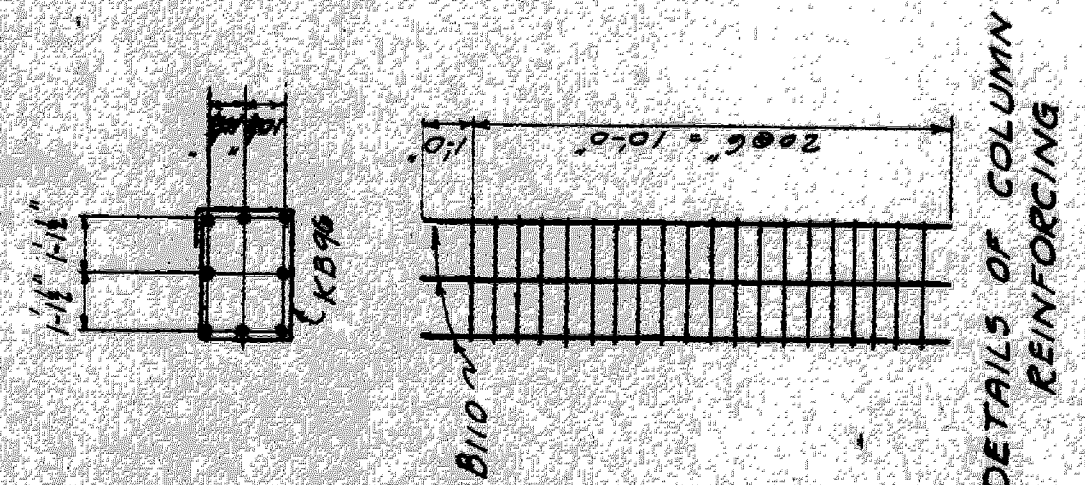
DETAILS OF SIDEWALK PIER



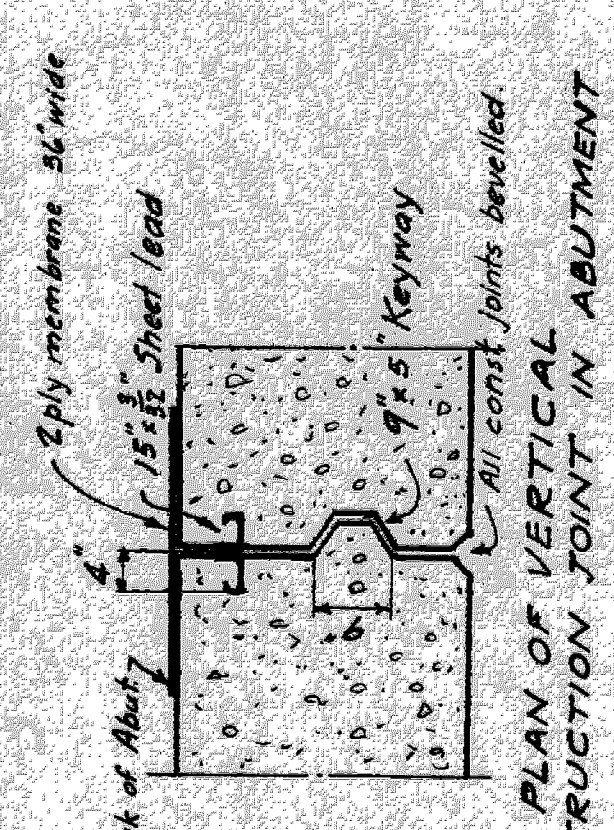
Detail for setting column bars & dowels.



SECTION AA



DETAILS OF COLUMN REINFORCING



PLAN OF VERTICAL CONSTRUCTION JOINT IN ABUTMENT

GENERAL NOTES

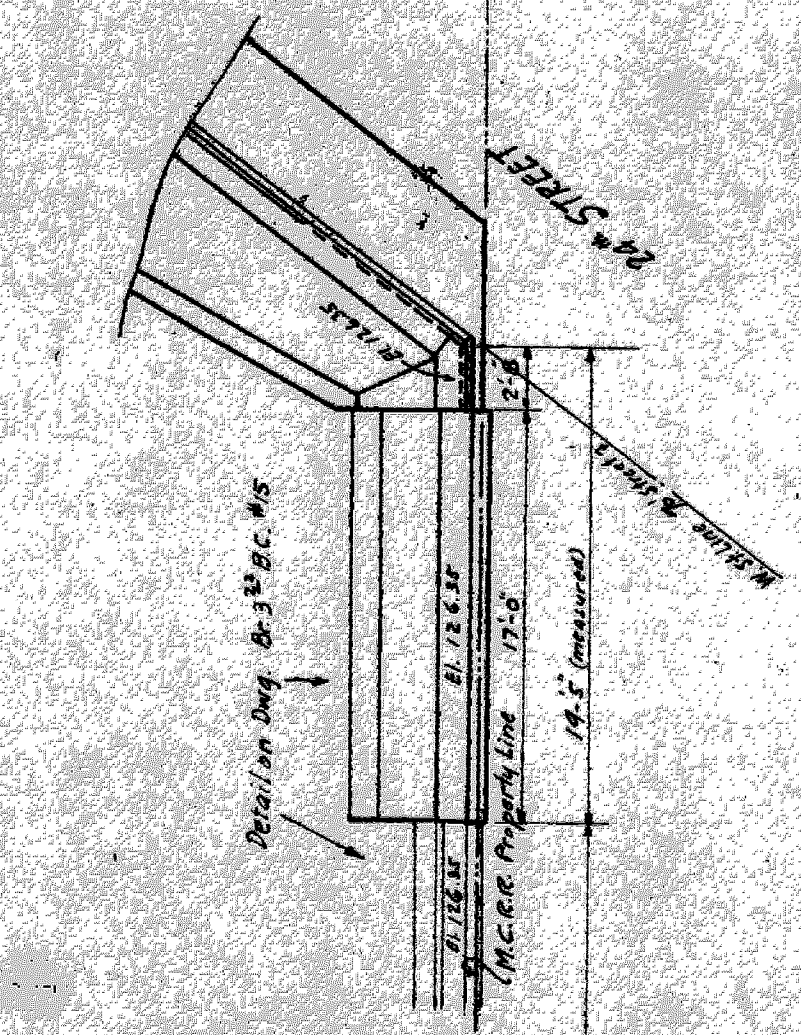
Specifications - NYC Lines for Concrete Masonry, 1928
 Concrete. For Piers above El of Curb to be Class "A" (475 gals of water per sack of cement and 745 sacks of cement per cu. yd of concrete). Other concrete to be Class "B" (625 gals of water per sack of cement and 525 sacks of cement per cu. yd of concrete).
 Bevel all exposed corners unless otherwise shown. Top surfaces to have a sidewalk finish. There shall be no horizontal joints except at top of footing and at coping. Exposed surfaces to be rubbed as soon as forms are removed. No cement grout to be used in rubbing surfaces.

Reinforcing. All bars to be deformed. They shall be securely wired together at each intersection. At splices they shall lap for a length of 40 diameters and be securely wired. See § 509 of specifications for placing. Waterproofing. Backs of Abutments shall be given a coat of primer and two coats of asphaltic waterproofing. Drains shall be laid to drain and be connected to City Sewer by Substructure Contractor.

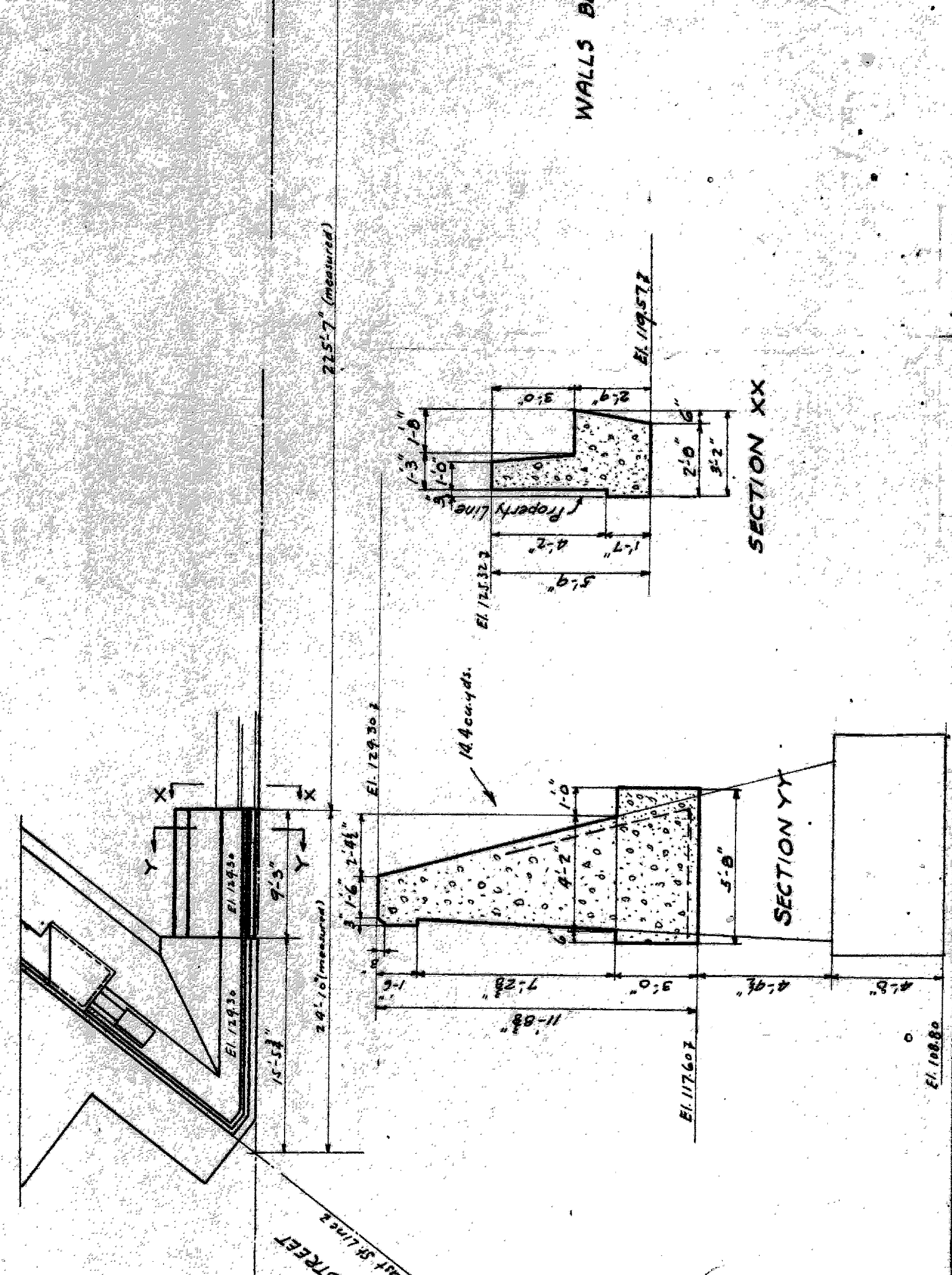
BILL OF BARS (Substructure only)

Mark	No.	Size	Length	Remarks
DNO	19	1/4"	11'-0"	Long. in E. Abut. Foot
D30	10	1/4"	13'-0"	"
D70	5	1/4"	17'-0"	Long. in W. Abut. Foot
D23	12	1/4"	21'-3"	"
D24	62	1/4"	25'-6"	Long. in all footings
C40	210	3/8"	4'-0"	Dowels in top of pier & abut
C60	141	3/8"	5'-0"	" " in backwall
C80	72	3/8"	6'-0"	Diagonal over arches
C270	70	3/8"	27'-0"	Long. in top of pier
B70	23	1"	7'-0"	Trans. Abut. Foot
B100	144	1"	10'-0"	Dowels. C1. Foot
B110	144	1"	11'-0"	Vertical. Columns
B116	131	1"	11'-6"	Trans. Abut. Foot
B120	244	1"	12'-0"	Trans. Abut. Foot
B140	126	1"	14'-0"	Trans. Abut. Foot
B226	270	1"	22'-6"	"
B344	150	1"	6'-4"	Stirrups in Piers
B395	52	1"	4'-3"	"
B396	360	1"	4'-8"	Hoops in Piers

All bars to be deformed
 Weight 67426#



SECTION XX



SECTION YY

REVISIONS

M.C.R.R. - BAY CITY DIV.
 THE N.Y.C.R.R. LEASEE
 BRIDGE-315 25TH ST. SUBWAY

MASONRY DETAILS
 A WALL BETWEEN 24TH & 25TH STS.

SCALE: 1/4" = 1'-0"
 DRAWN BY: [Signature] E-21-107
 CHECKED BY: [Signature] E-22-102
 TRACED BY: [Signature] E-22-102

ISSUE NO. 12-1-11
 DATE

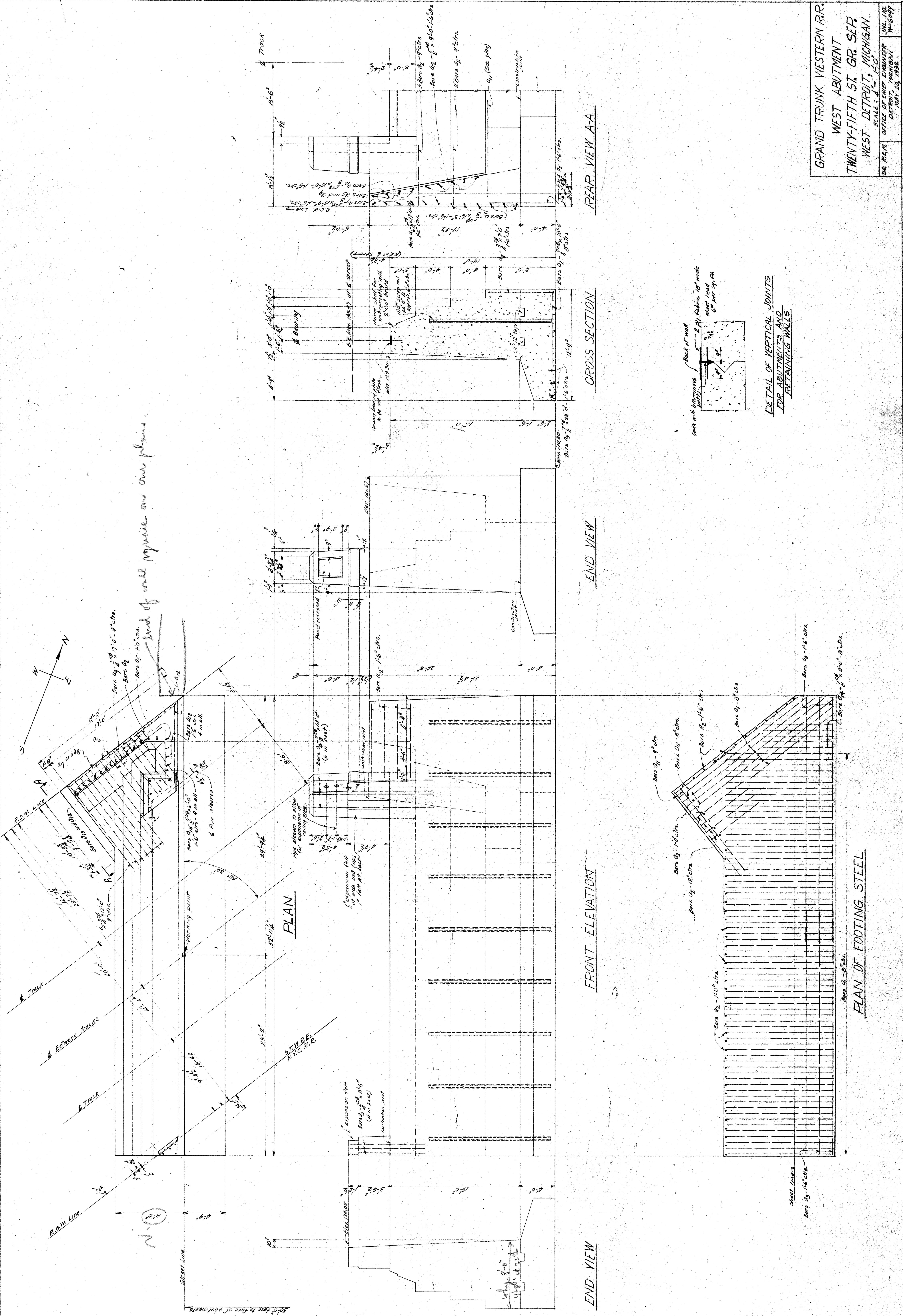
APPROVED: [Signature]
 BRIDGE ENGINEER

SHEET: M3 OF 4
 315 Bay City #11

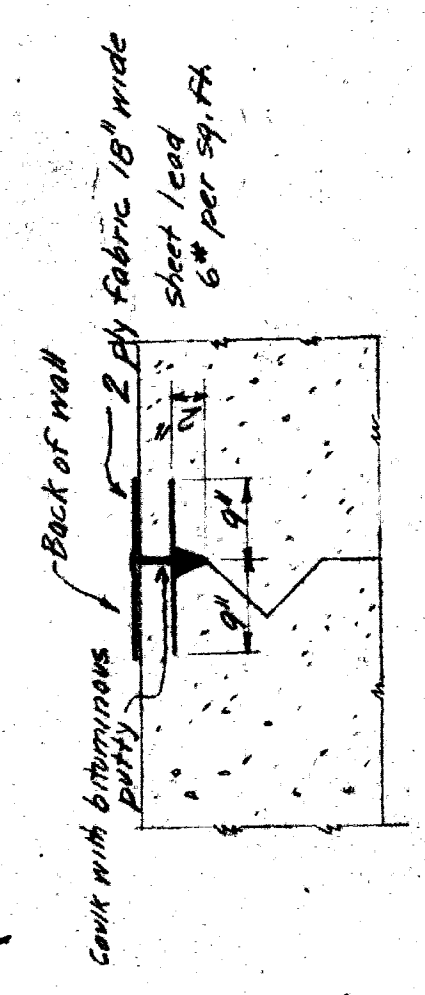
File XU 23-5

GRAND TRUNK WESTERN R.R.
 WEST ABUTMENT
 TWENTY-FIFTH ST. GR. SEP.
 WEST DETROIT, MICHIGAN
 SCALE: 1" = 10'
 DE. REIN. OFFICE OF CHIEF ENGINEER
 DETROIT, MICHIGAN
 MAY 23, 1932
 W-6097

File XU 23-8



End of wall require on one plan.



DETAIL OF VERTICAL JOINTS
 FOR ABUTMENTS AND
 RETAINING WALLS

PLAN OF FOOTING STEEL

REAR VIEW A-A

CROSS SECTION

END VIEW

FRONT ELEVATION

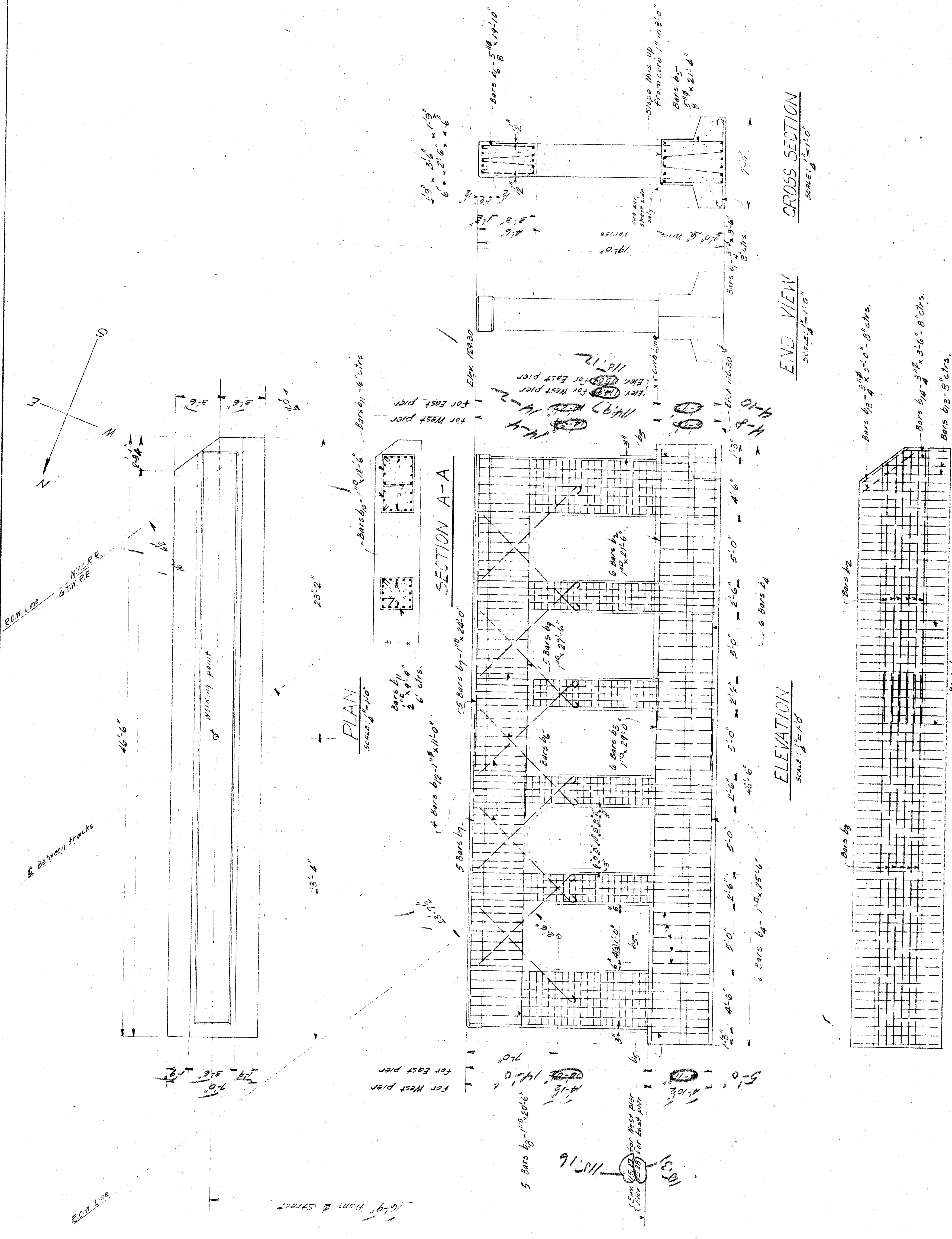
END VIEW

BILL OF REINFORCING STEEL

LOCATION	WK NO.	SIZE	LENGTH	REINFORCING DIAGRAM
Footings	01	12" x 18"	13'-0"	3"R
Columns	02	18" x 18"	7'-0"	5"R
Columns	03	18" x 18"	22'-0"	5"R
Columns	04	18" x 18"	14'-0"	5"R
Columns	05	18" x 18"	17'-0"	5"R
Columns	06	18" x 18"	17'-0"	5"R
Columns	07	18" x 18"	17'-0"	5"R
Columns	08	18" x 18"	17'-0"	5"R
Columns	09	18" x 18"	17'-0"	5"R
Columns	10	18" x 18"	17'-0"	5"R
Columns	11	18" x 18"	17'-0"	5"R
Columns	12	18" x 18"	17'-0"	5"R
Columns	13	18" x 18"	17'-0"	5"R
Columns	14	18" x 18"	17'-0"	5"R
Columns	15	18" x 18"	17'-0"	5"R
Columns	16	18" x 18"	17'-0"	5"R
Columns	17	18" x 18"	17'-0"	5"R
Columns	18	18" x 18"	17'-0"	5"R
Columns	19	18" x 18"	17'-0"	5"R
Columns	20	18" x 18"	17'-0"	5"R
Columns	21	18" x 18"	17'-0"	5"R
Columns	22	18" x 18"	17'-0"	5"R
Columns	23	18" x 18"	17'-0"	5"R
Columns	24	18" x 18"	17'-0"	5"R
Columns	25	18" x 18"	17'-0"	5"R
Columns	26	18" x 18"	17'-0"	5"R
Columns	27	18" x 18"	17'-0"	5"R
Columns	28	18" x 18"	17'-0"	5"R
Columns	29	18" x 18"	17'-0"	5"R
Columns	30	18" x 18"	17'-0"	5"R
Columns	31	18" x 18"	17'-0"	5"R
Columns	32	18" x 18"	17'-0"	5"R
Columns	33	18" x 18"	17'-0"	5"R
Columns	34	18" x 18"	17'-0"	5"R
Columns	35	18" x 18"	17'-0"	5"R
Columns	36	18" x 18"	17'-0"	5"R
Columns	37	18" x 18"	17'-0"	5"R
Columns	38	18" x 18"	17'-0"	5"R
Columns	39	18" x 18"	17'-0"	5"R
Columns	40	18" x 18"	17'-0"	5"R
Columns	41	18" x 18"	17'-0"	5"R
Columns	42	18" x 18"	17'-0"	5"R
Columns	43	18" x 18"	17'-0"	5"R
Columns	44	18" x 18"	17'-0"	5"R
Columns	45	18" x 18"	17'-0"	5"R
Columns	46	18" x 18"	17'-0"	5"R
Columns	47	18" x 18"	17'-0"	5"R
Columns	48	18" x 18"	17'-0"	5"R
Columns	49	18" x 18"	17'-0"	5"R
Columns	50	18" x 18"	17'-0"	5"R
Columns	51	18" x 18"	17'-0"	5"R
Columns	52	18" x 18"	17'-0"	5"R
Columns	53	18" x 18"	17'-0"	5"R
Columns	54	18" x 18"	17'-0"	5"R
Columns	55	18" x 18"	17'-0"	5"R
Columns	56	18" x 18"	17'-0"	5"R
Columns	57	18" x 18"	17'-0"	5"R
Columns	58	18" x 18"	17'-0"	5"R
Columns	59	18" x 18"	17'-0"	5"R
Columns	60	18" x 18"	17'-0"	5"R
Columns	61	18" x 18"	17'-0"	5"R
Columns	62	18" x 18"	17'-0"	5"R
Columns	63	18" x 18"	17'-0"	5"R
Columns	64	18" x 18"	17'-0"	5"R
Columns	65	18" x 18"	17'-0"	5"R
Columns	66	18" x 18"	17'-0"	5"R
Columns	67	18" x 18"	17'-0"	5"R
Columns	68	18" x 18"	17'-0"	5"R
Columns	69	18" x 18"	17'-0"	5"R
Columns	70	18" x 18"	17'-0"	5"R
Columns	71	18" x 18"	17'-0"	5"R
Columns	72	18" x 18"	17'-0"	5"R
Columns	73	18" x 18"	17'-0"	5"R
Columns	74	18" x 18"	17'-0"	5"R
Columns	75	18" x 18"	17'-0"	5"R
Columns	76	18" x 18"	17'-0"	5"R
Columns	77	18" x 18"	17'-0"	5"R
Columns	78	18" x 18"	17'-0"	5"R
Columns	79	18" x 18"	17'-0"	5"R
Columns	80	18" x 18"	17'-0"	5"R
Columns	81	18" x 18"	17'-0"	5"R
Columns	82	18" x 18"	17'-0"	5"R
Columns	83	18" x 18"	17'-0"	5"R
Columns	84	18" x 18"	17'-0"	5"R
Columns	85	18" x 18"	17'-0"	5"R
Columns	86	18" x 18"	17'-0"	5"R
Columns	87	18" x 18"	17'-0"	5"R
Columns	88	18" x 18"	17'-0"	5"R
Columns	89	18" x 18"	17'-0"	5"R
Columns	90	18" x 18"	17'-0"	5"R
Columns	91	18" x 18"	17'-0"	5"R
Columns	92	18" x 18"	17'-0"	5"R
Columns	93	18" x 18"	17'-0"	5"R
Columns	94	18" x 18"	17'-0"	5"R
Columns	95	18" x 18"	17'-0"	5"R
Columns	96	18" x 18"	17'-0"	5"R
Columns	97	18" x 18"	17'-0"	5"R
Columns	98	18" x 18"	17'-0"	5"R
Columns	99	18" x 18"	17'-0"	5"R
Columns	100	18" x 18"	17'-0"	5"R

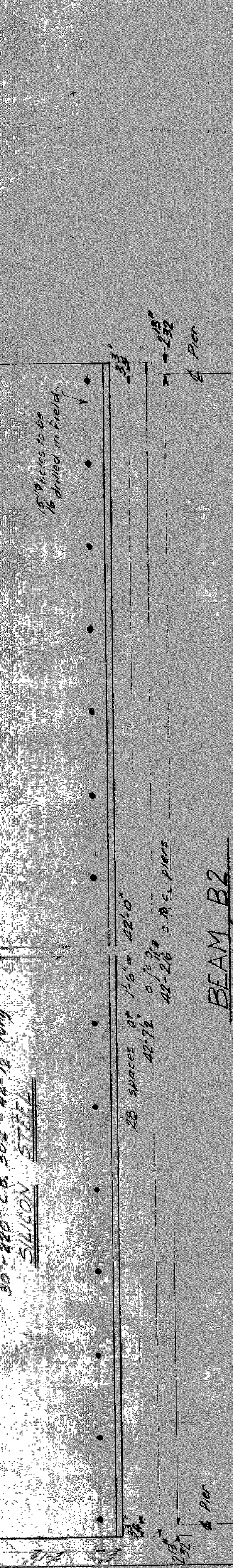
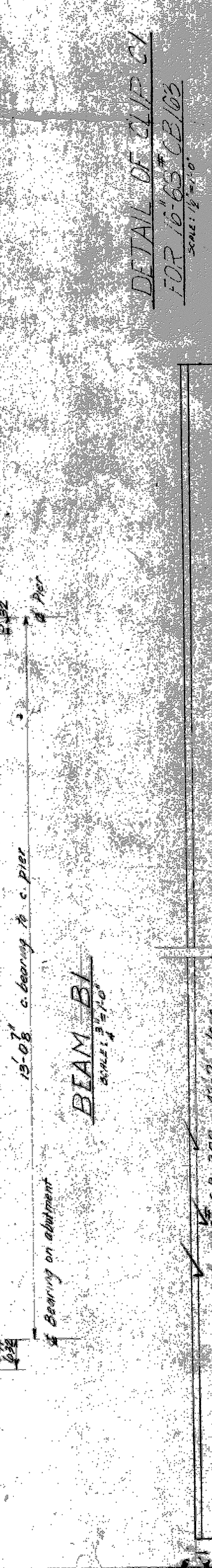
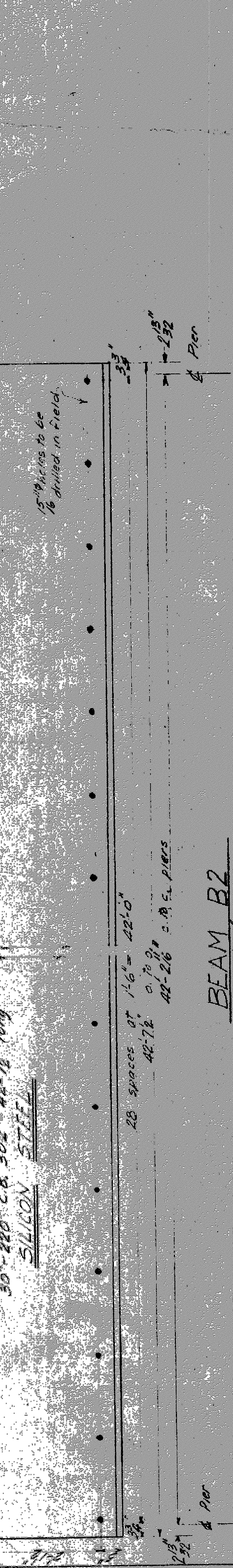
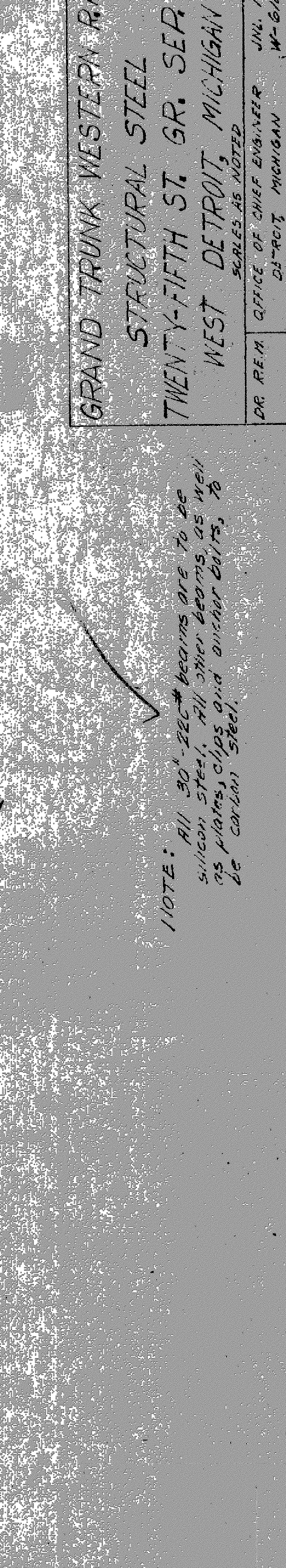
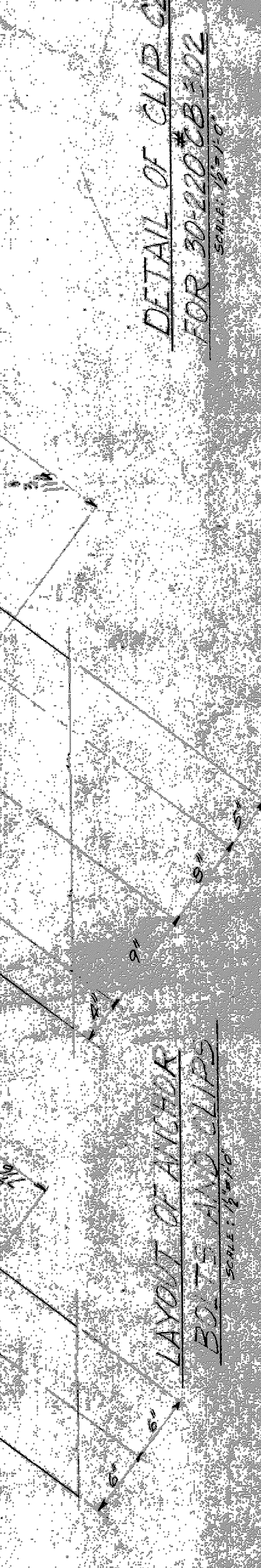
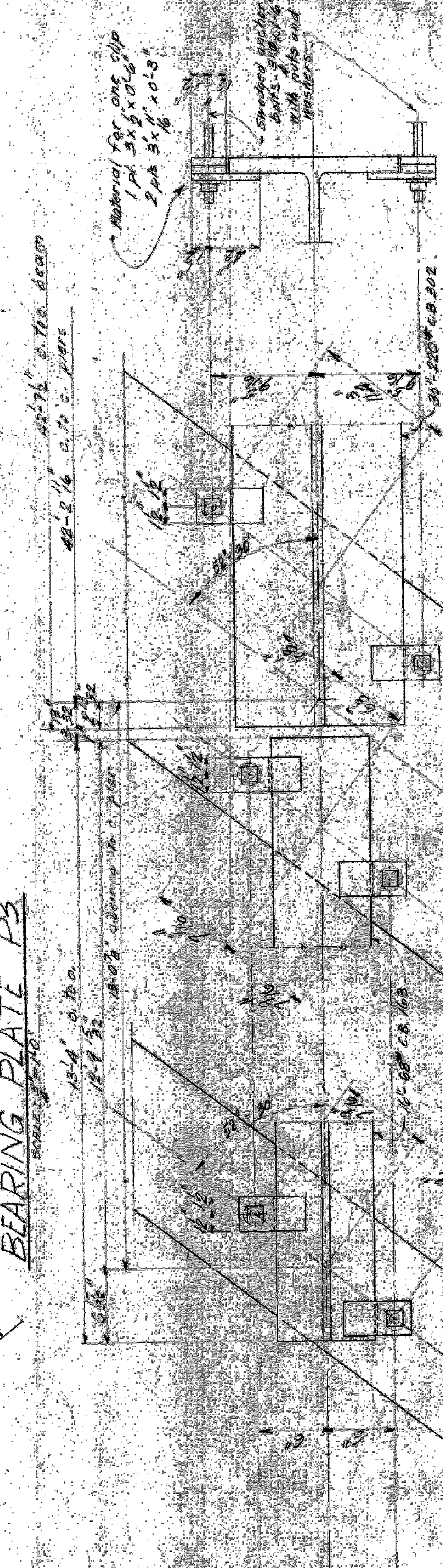
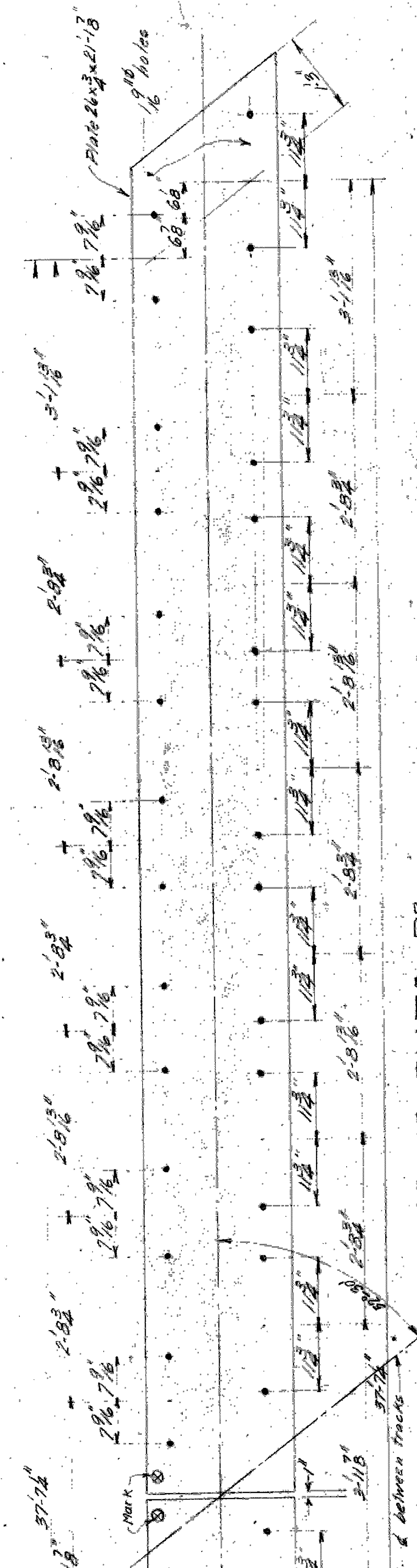
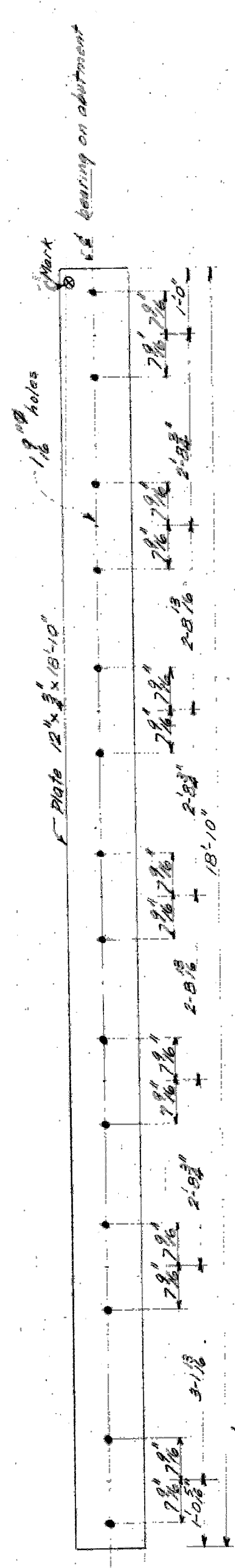
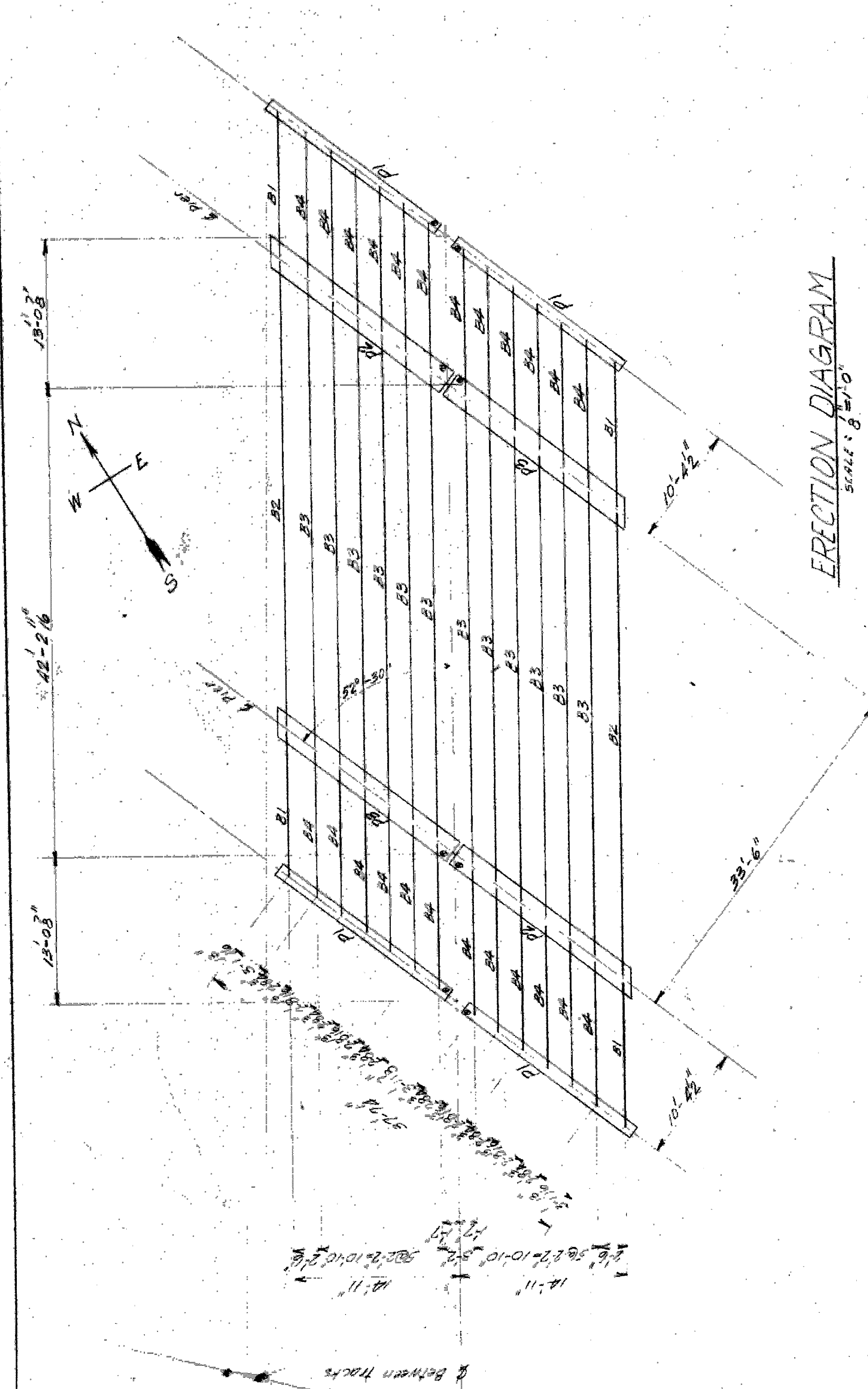
GRAND TRUNK WESTERN R.R.
PIERS AND REINFORCING PLAN
THIRTY-FIFTH ST. GR. SER.
WEST DETROIT, MICHIGAN
SCALE AS NOTED
OFFICE OF CHIEF ENGINEER
DETROIT, MICHIGAN
JUL 1922
M-601

File XU 23-10



ABOVE	Per in abutments	18	80	4'-0"	Scrap rail
-------	------------------	----	----	-------	------------

NUMBER	DESCRIPTION	REMARKS	SPECIAL NOTE
1	B1 16" x 22" CB 103-13-4	To be shipped plain (divided in field)	STRUCTURAL STEEL
2	B2 30" x 20" CB 302-42-2	To be shipped plain (divided in field)	STRUCTURAL STEEL
12	B3 30" x 20" CB 302-42-2	Plain beams	STRUCTURAL STEEL
24	B4 16" x 22" CB 103-13-4	Plain beams	
4	P1 1/2" x 12" x 13'-10"	Reinforcement bearing plate	
2	P2 1/2" x 12" x 13'-10"	Pier bearing plate	
2	P3 1/2" x 12" x 13'-10"	Pier bearing plate	
1/2	C1 Clips for CB 103	Two plates each	
5/8	C2 Clips for CB 302	Three plates each	
1/8	1/8" holes	With nuts and washers	

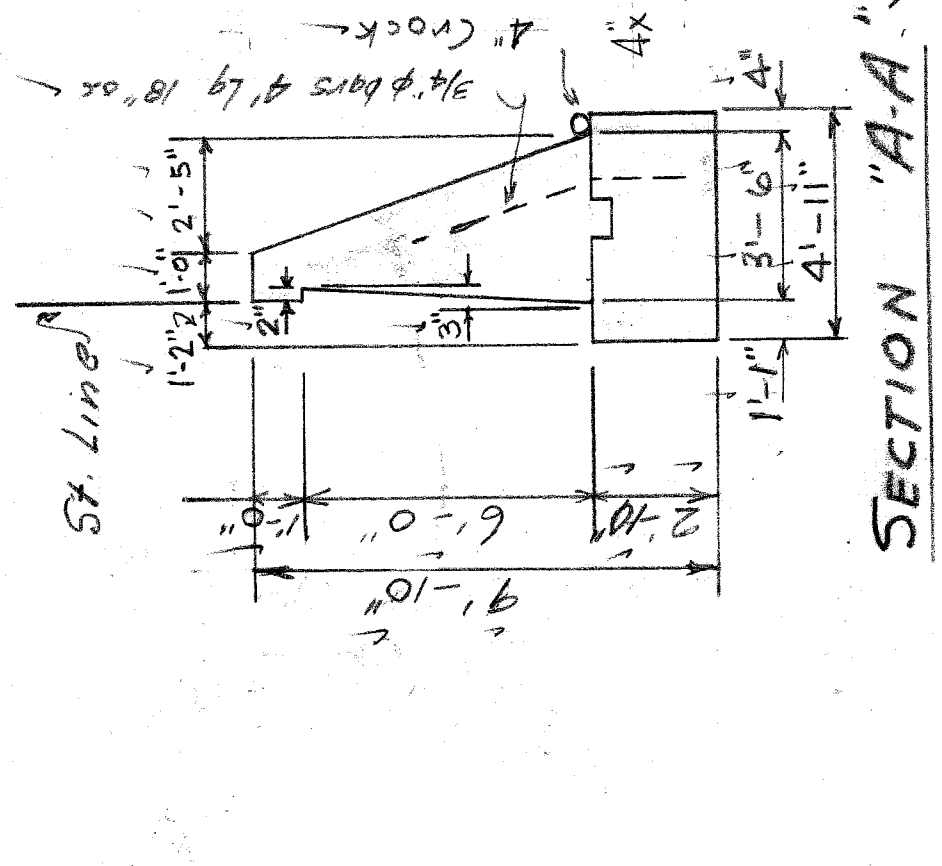
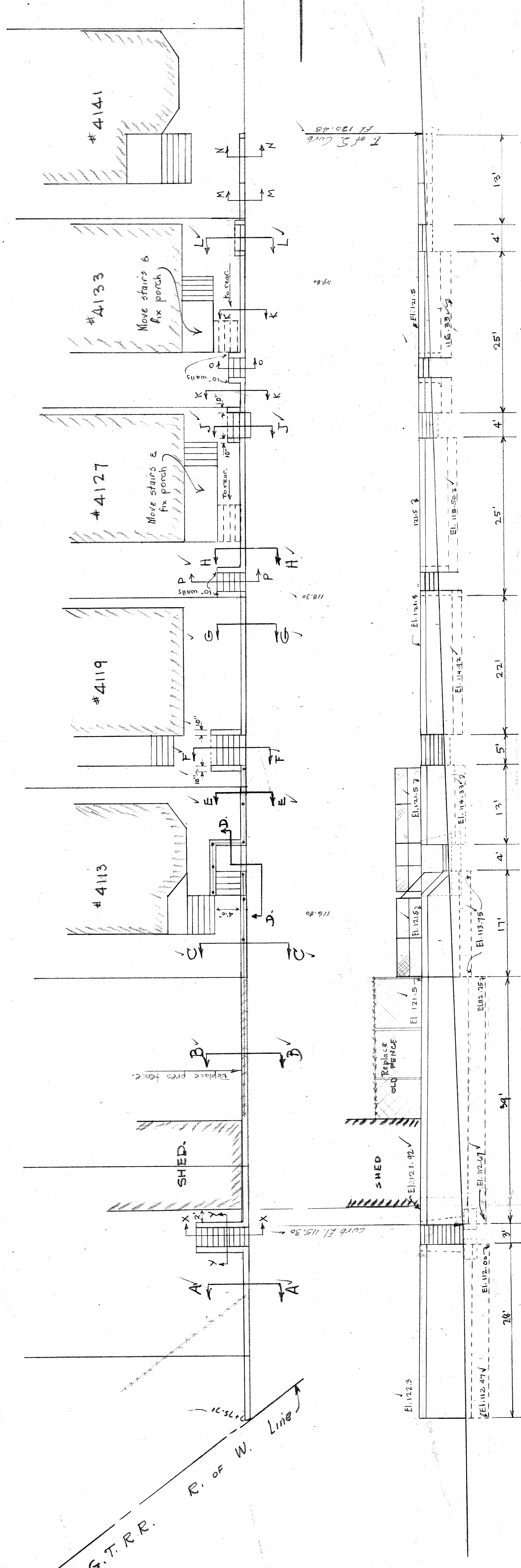
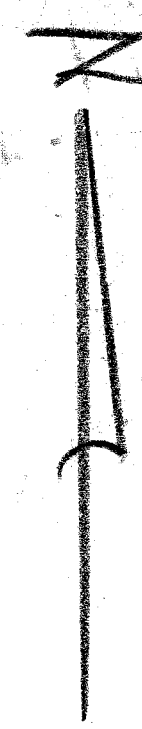


NOTE: ALL 30" BEAM BEAMS ARE TO BE SILICON STEEL, ALL OTHER BEAMS AS WELL AS PLATES, CLIPS AND ANCHOR BOLTS, TO BE CARLISL STEEL.

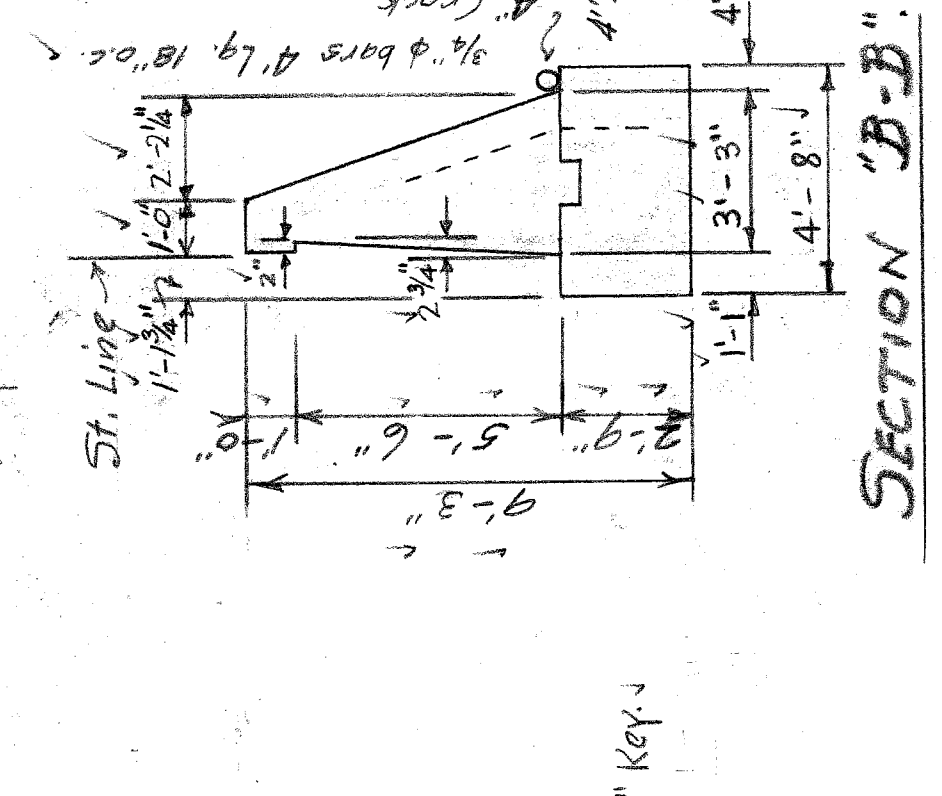
GRAND TRUNK WESTERN RR
STRUCTURAL STEEL
TWENTY-FIFTH ST. GR. SER
WEST DETROIT, MICHIGAN
DR. R.E.M. OFFICE OF CHIEF ENGINEER
JUL 10 1912
MICHIGAN
W-602
JUN 5 1912

G.T.R.R.

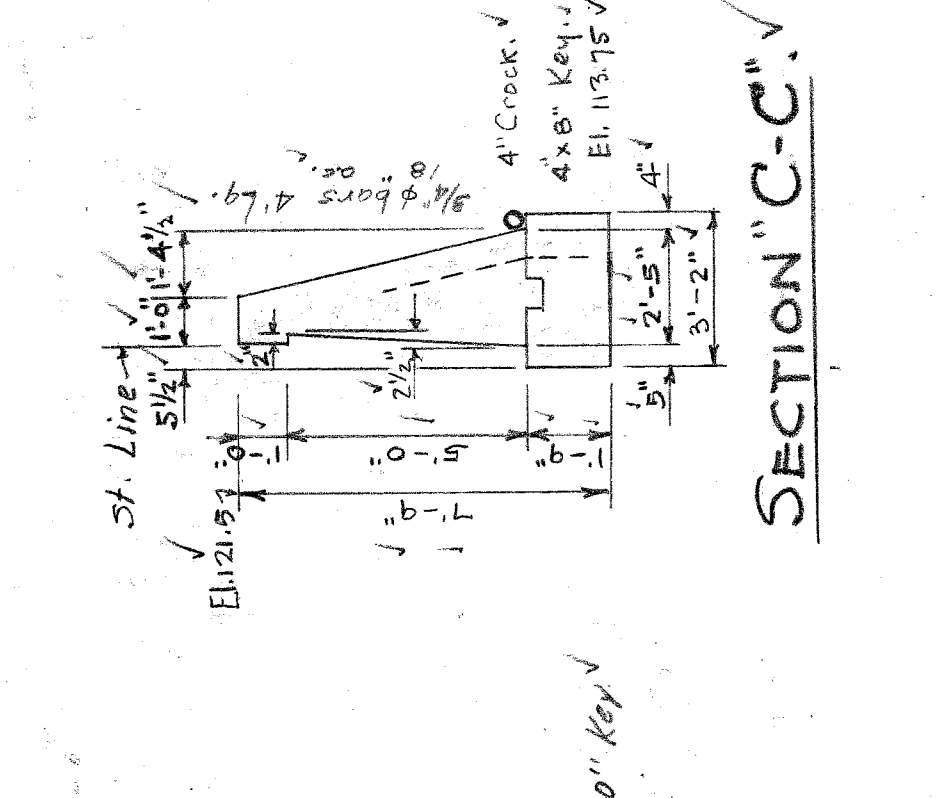
R. of W. Line



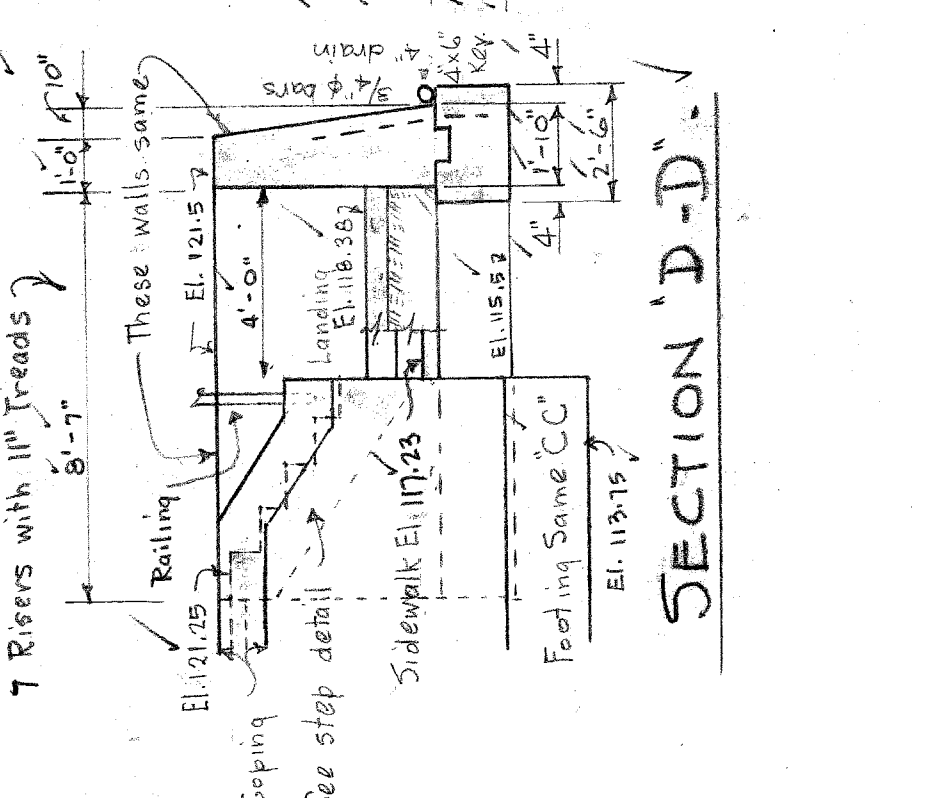
SECTION "A-A"



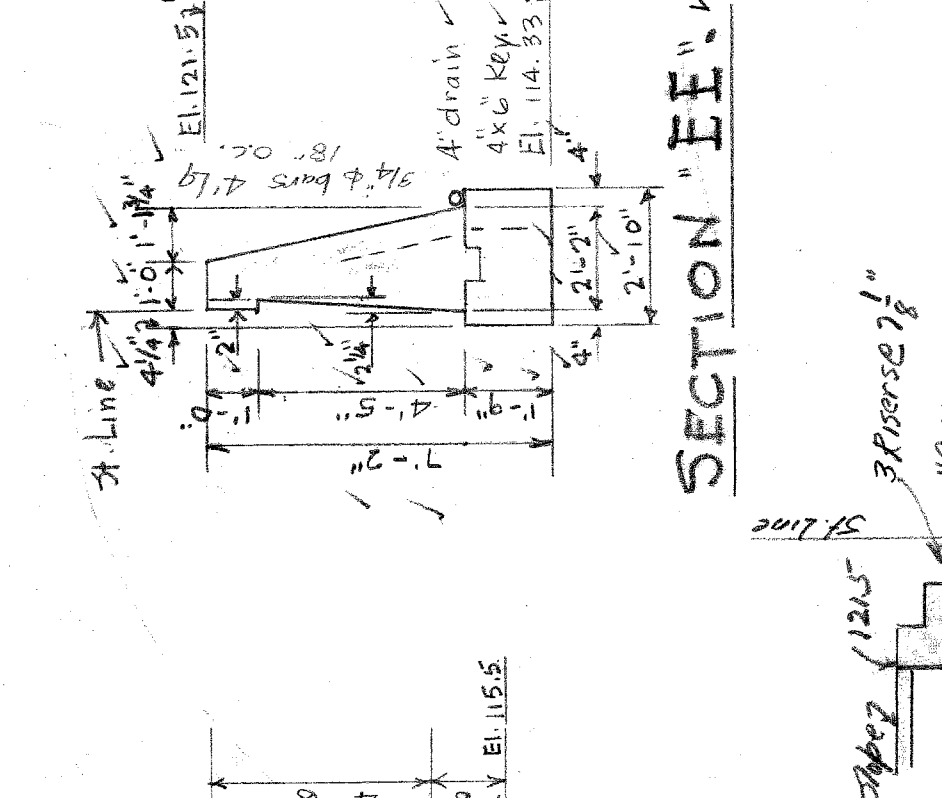
SECTION "B-B"



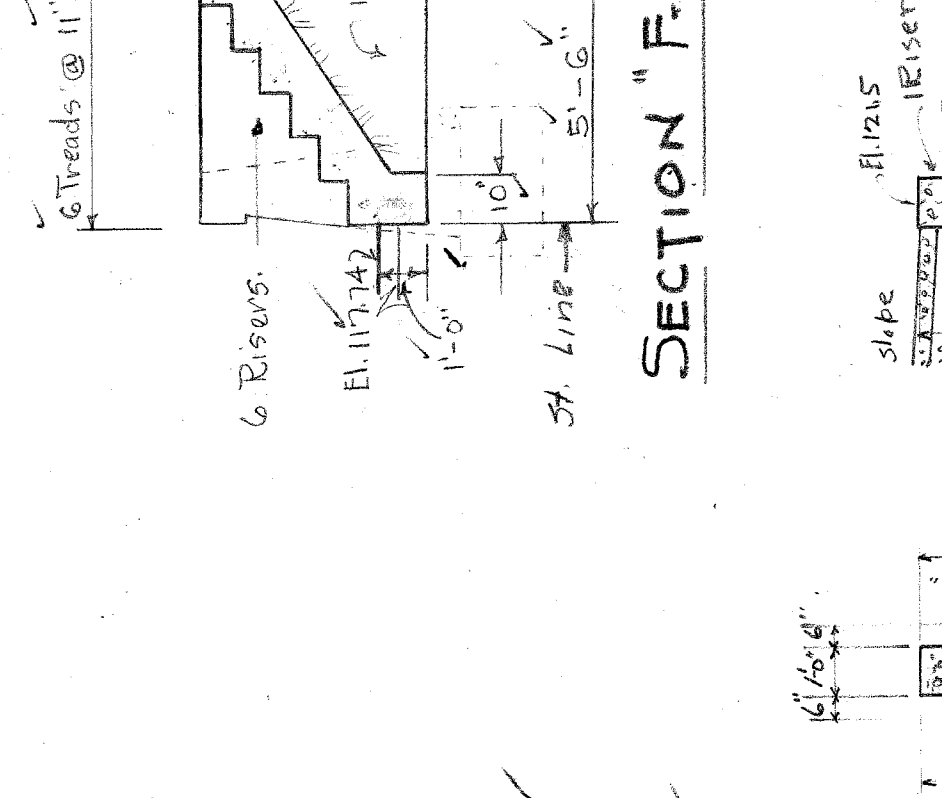
SECTION "C-C"



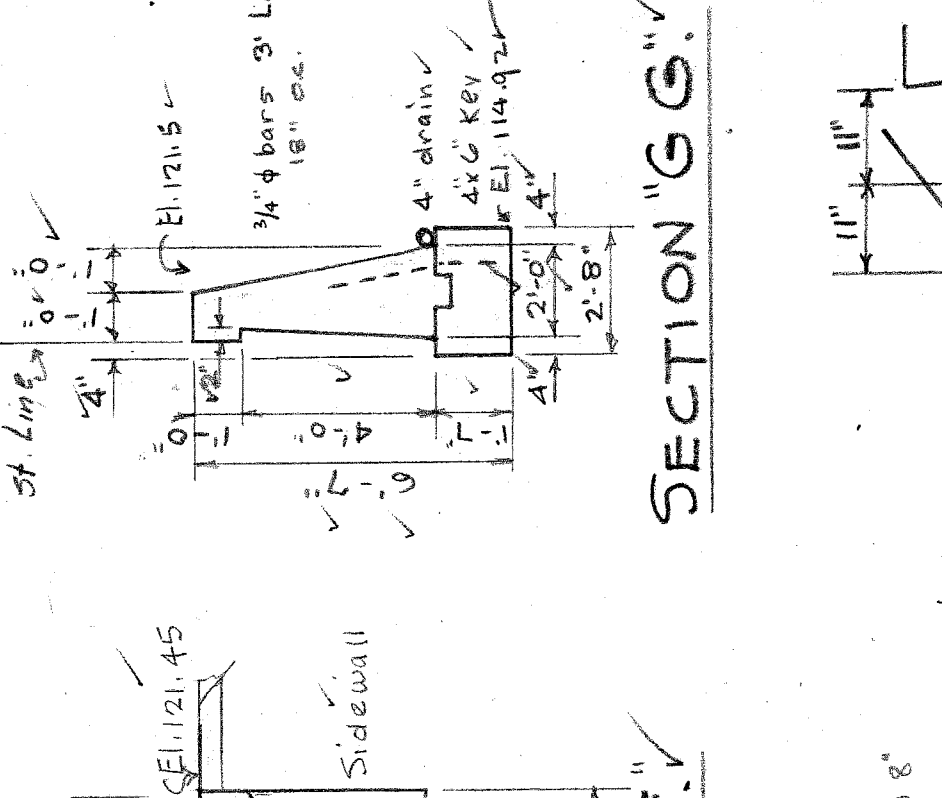
SECTION "D-D"



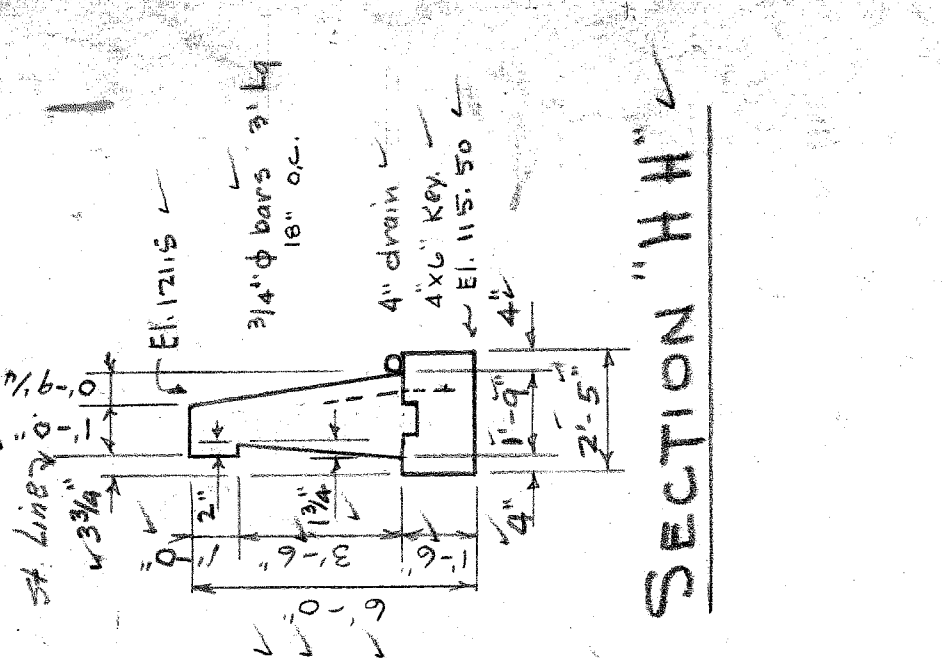
SECTION "E-E"



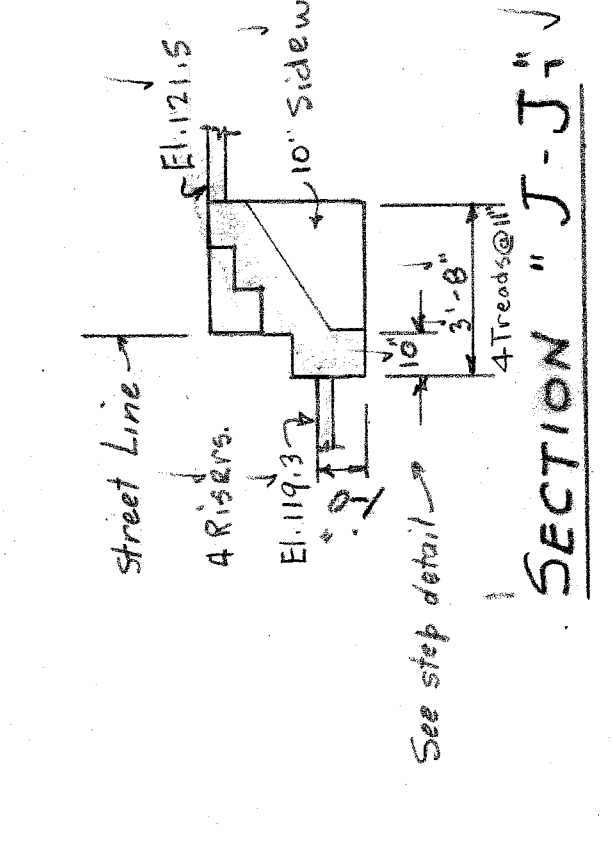
SECTION "F-F"



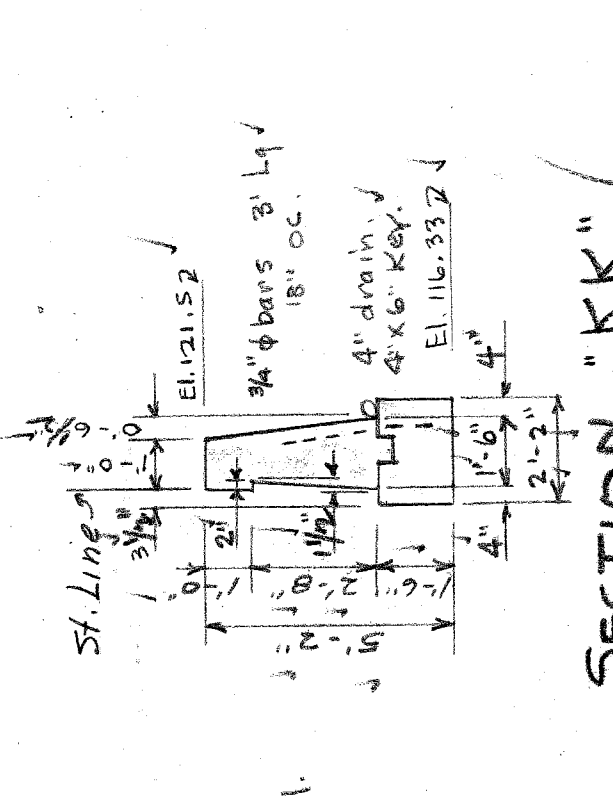
SECTION "G-G"



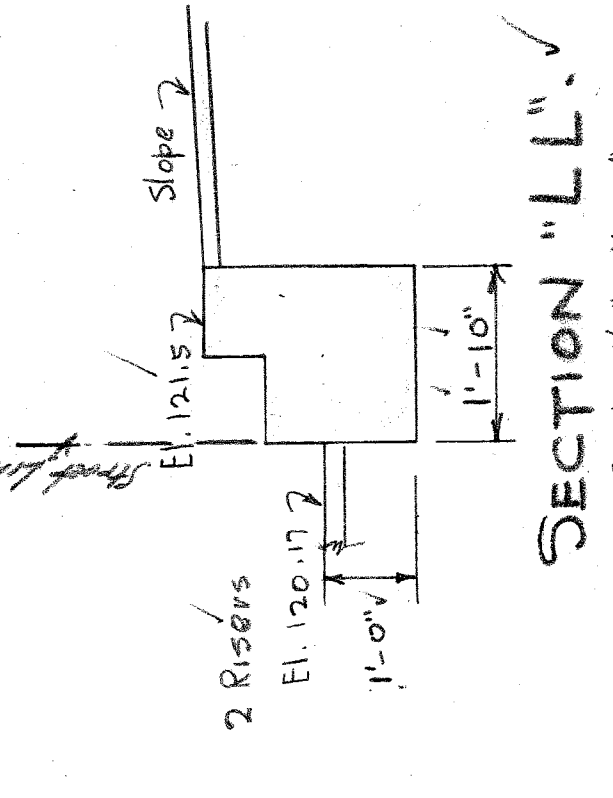
SECTION "H-H"



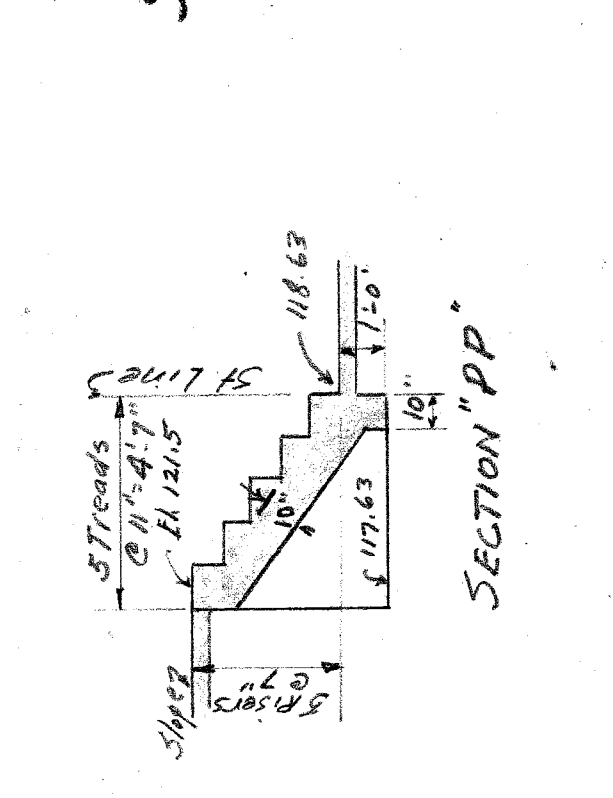
SECTION "J-J"



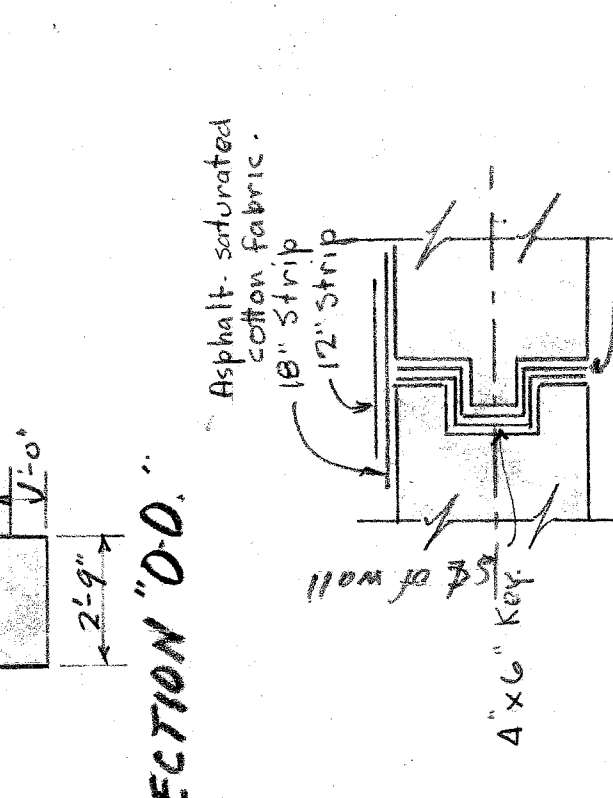
SECTION "K-K"



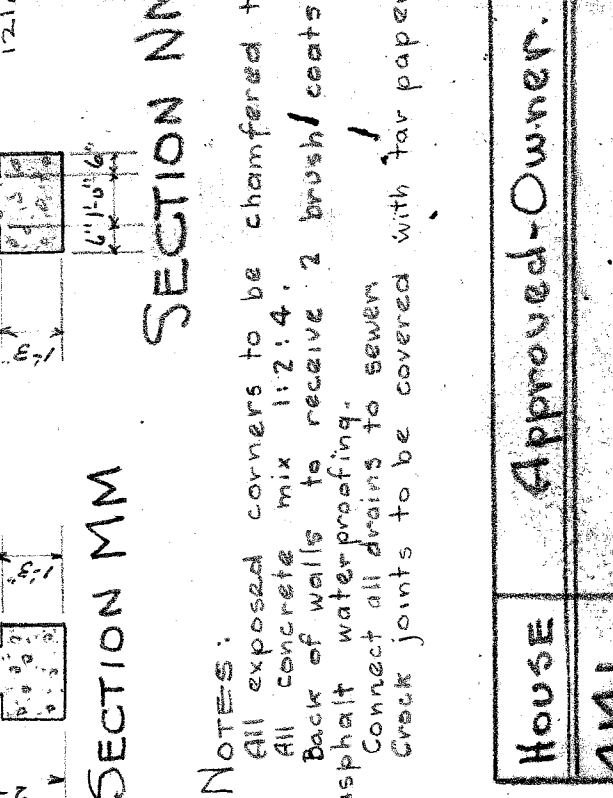
SECTION "L-L"



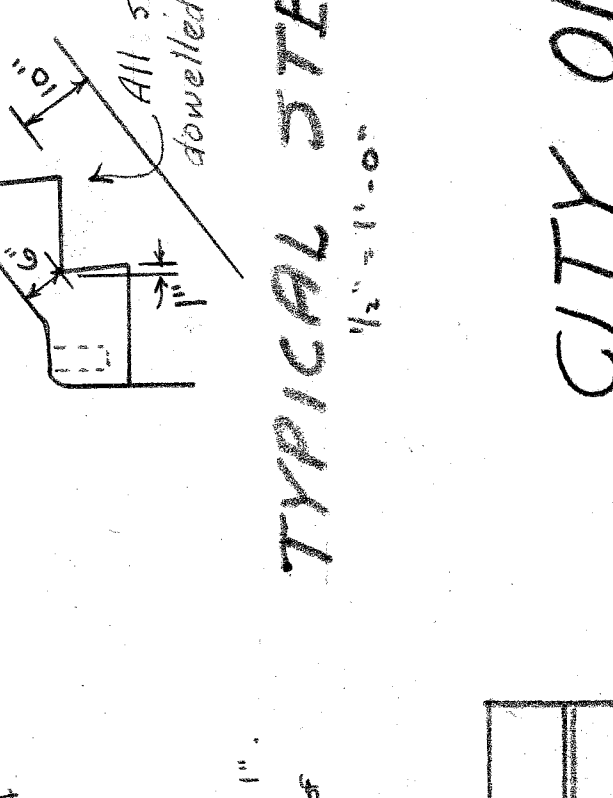
SECTION "O-O"



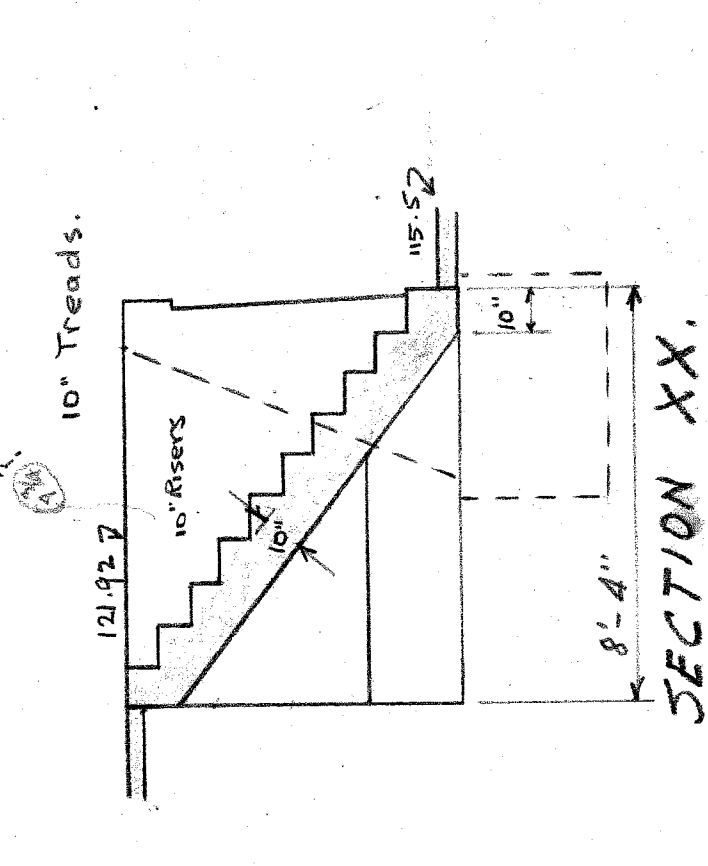
SECTION "M-M"



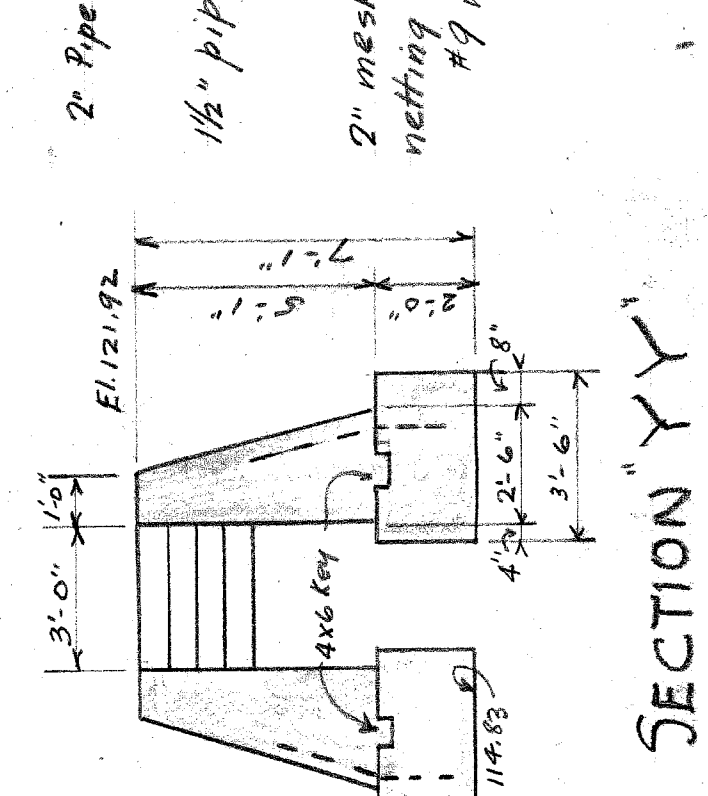
SECTION "N-N"



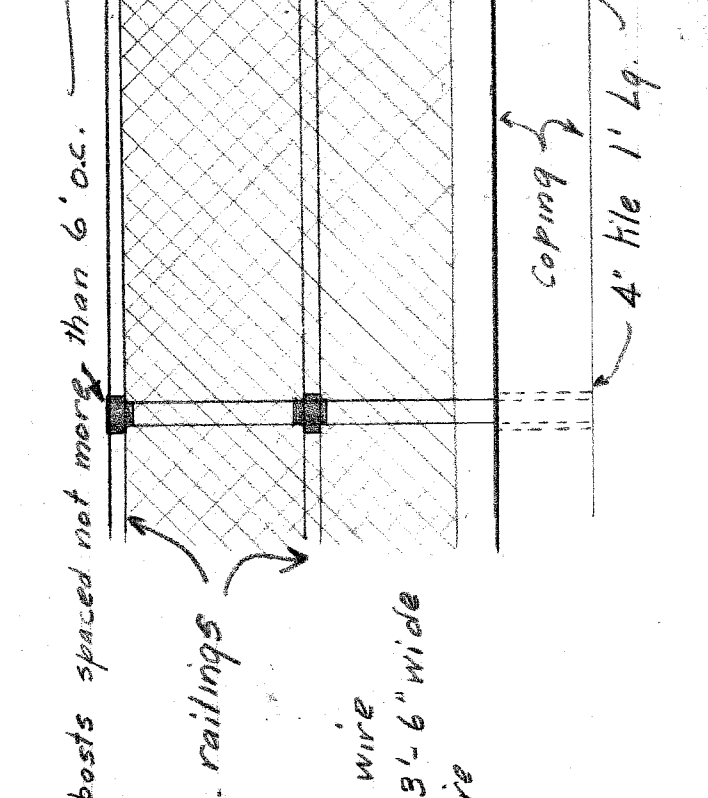
SECTION "P-P"



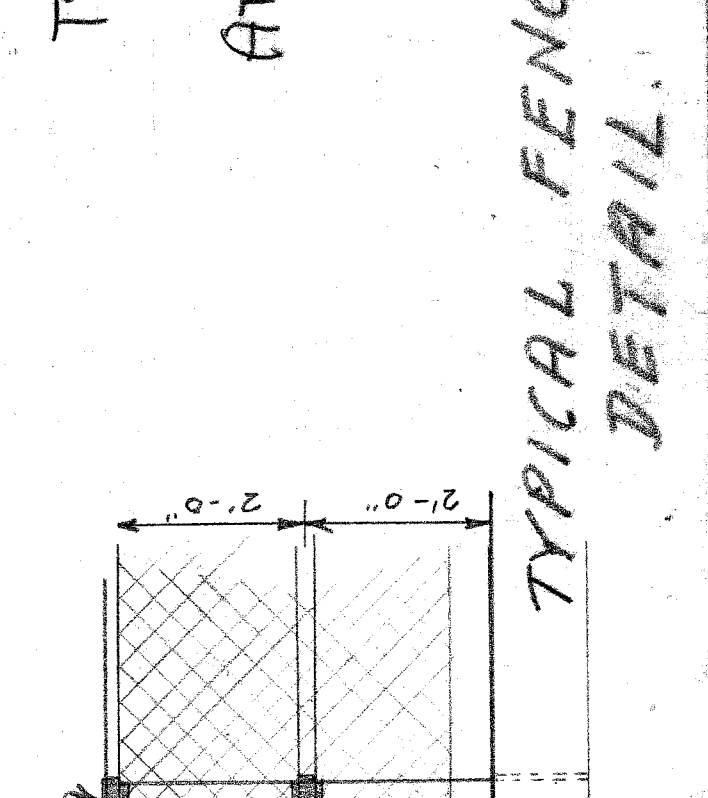
SECTION "XX"



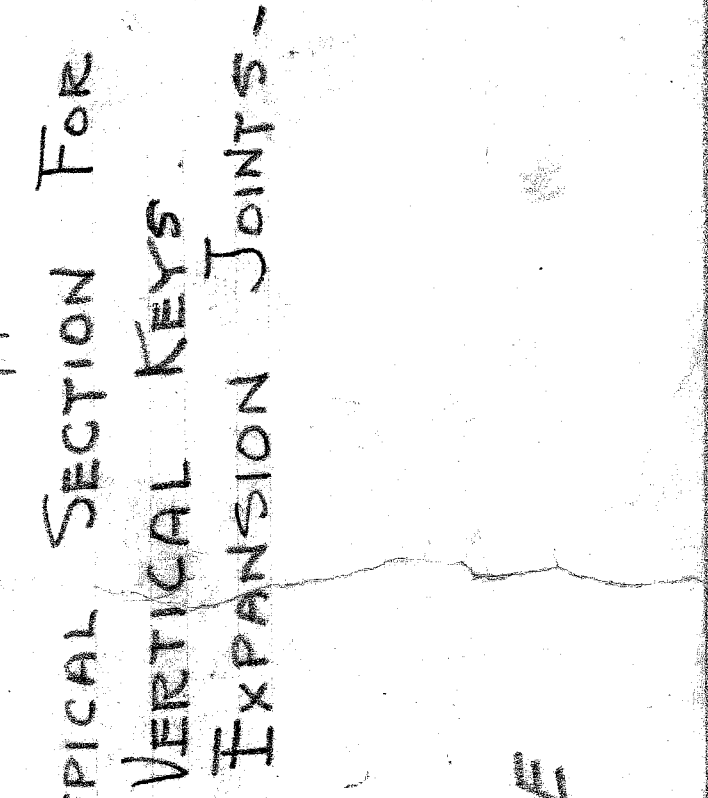
SECTION "Y-Y"



TYPICAL FENCE DETAIL



TYPICAL SECTION FOR VERTICAL KEYS AT EXPANSION JOINTS

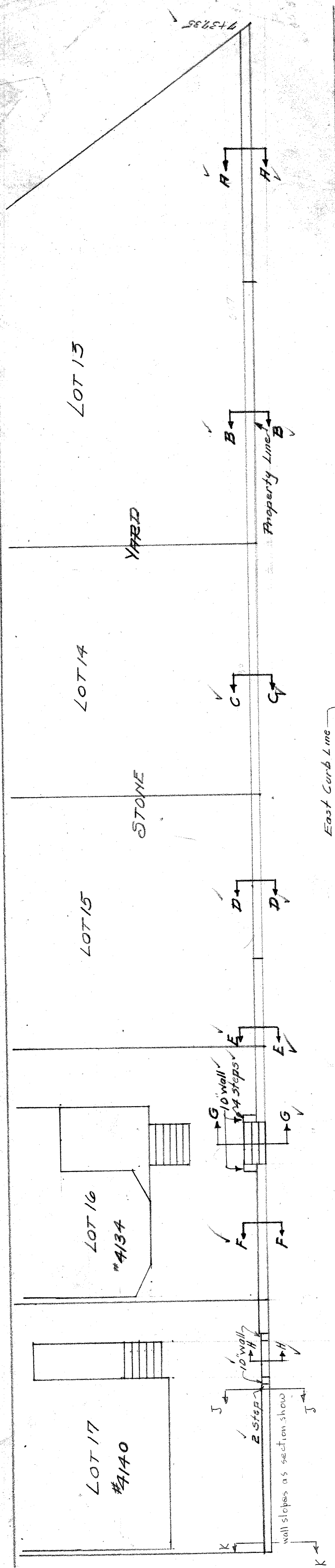


TYPICAL STEP DETAIL

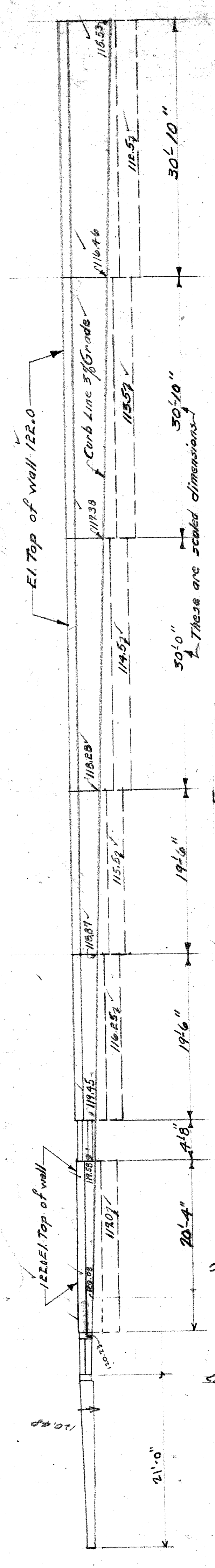
House	Approved-Owner
4141	
4133	
4127	
4119	
4113	

NOTES:
 All exposed corners to be chamfered to 1".
 All concrete mix 1:2:4.
 Back of walls to receive 2 brush/coats of asphalt waterproofing.
 Contact all drains to sewers.
 Crack joints to be covered with tar paper.

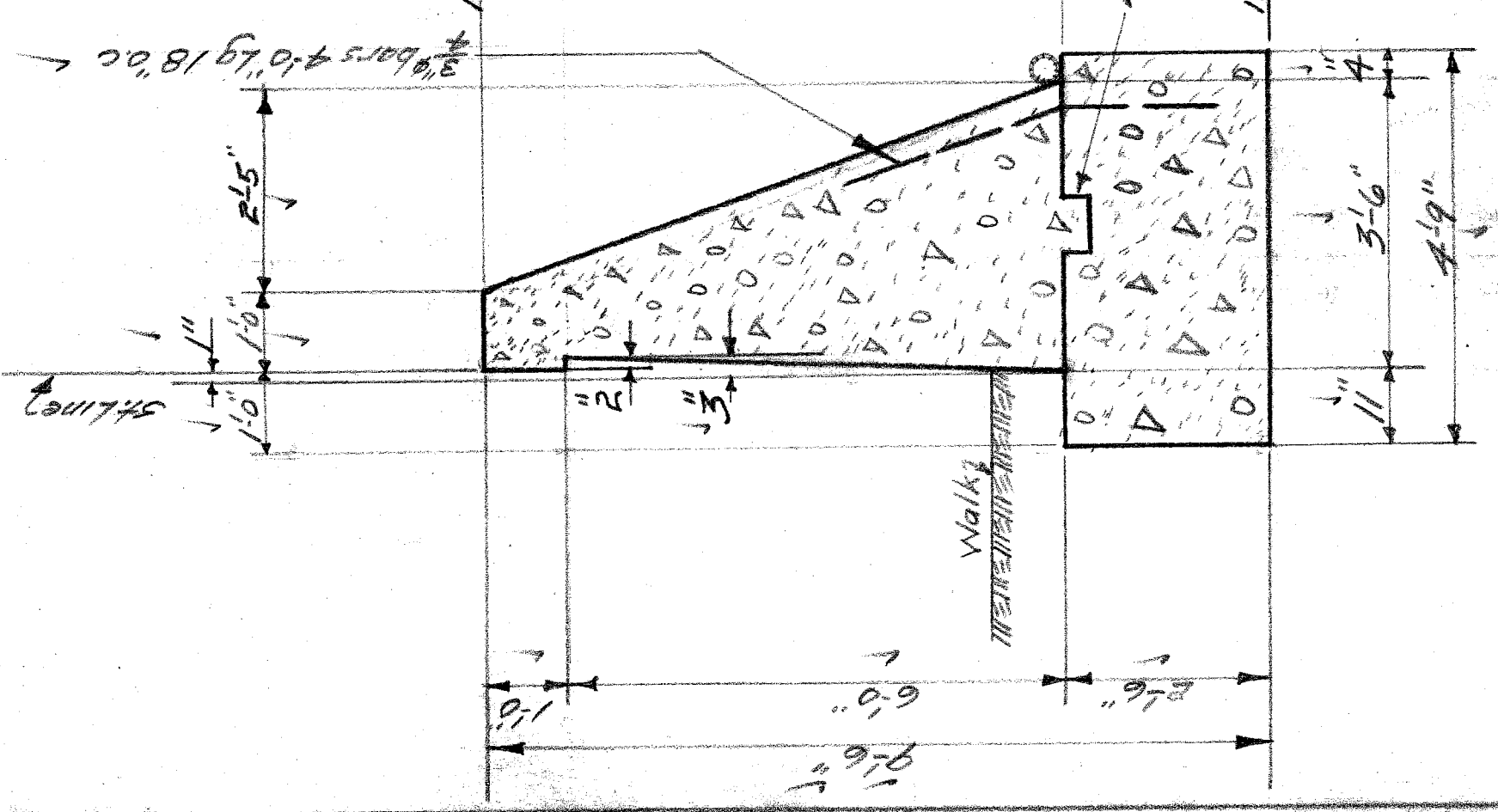
CITY OF DETROIT
 DIVISION OF GRADE SEPARATION & BRIDGES.
 WEST SIDE OF TWENTY FIFTH
 NORTH OF R. OF W.
 Scale: 1/4" = 1'-0" & as noted. Oct. 27, 1935
 DRAWN H.T.J.
 CHECKED: R.S.
 10-27-35



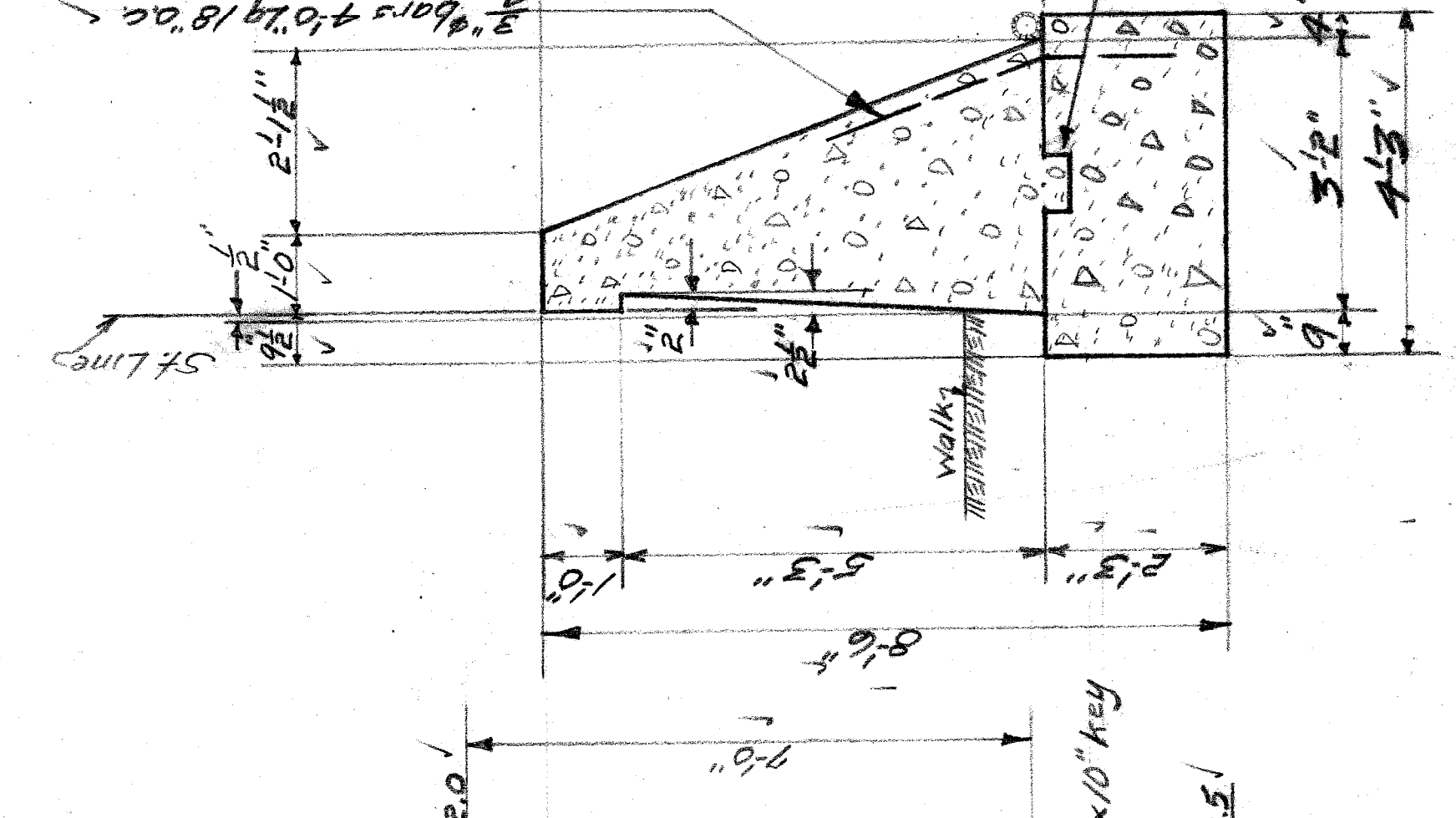
PLAN
Scale 1/4" = 1'-0"



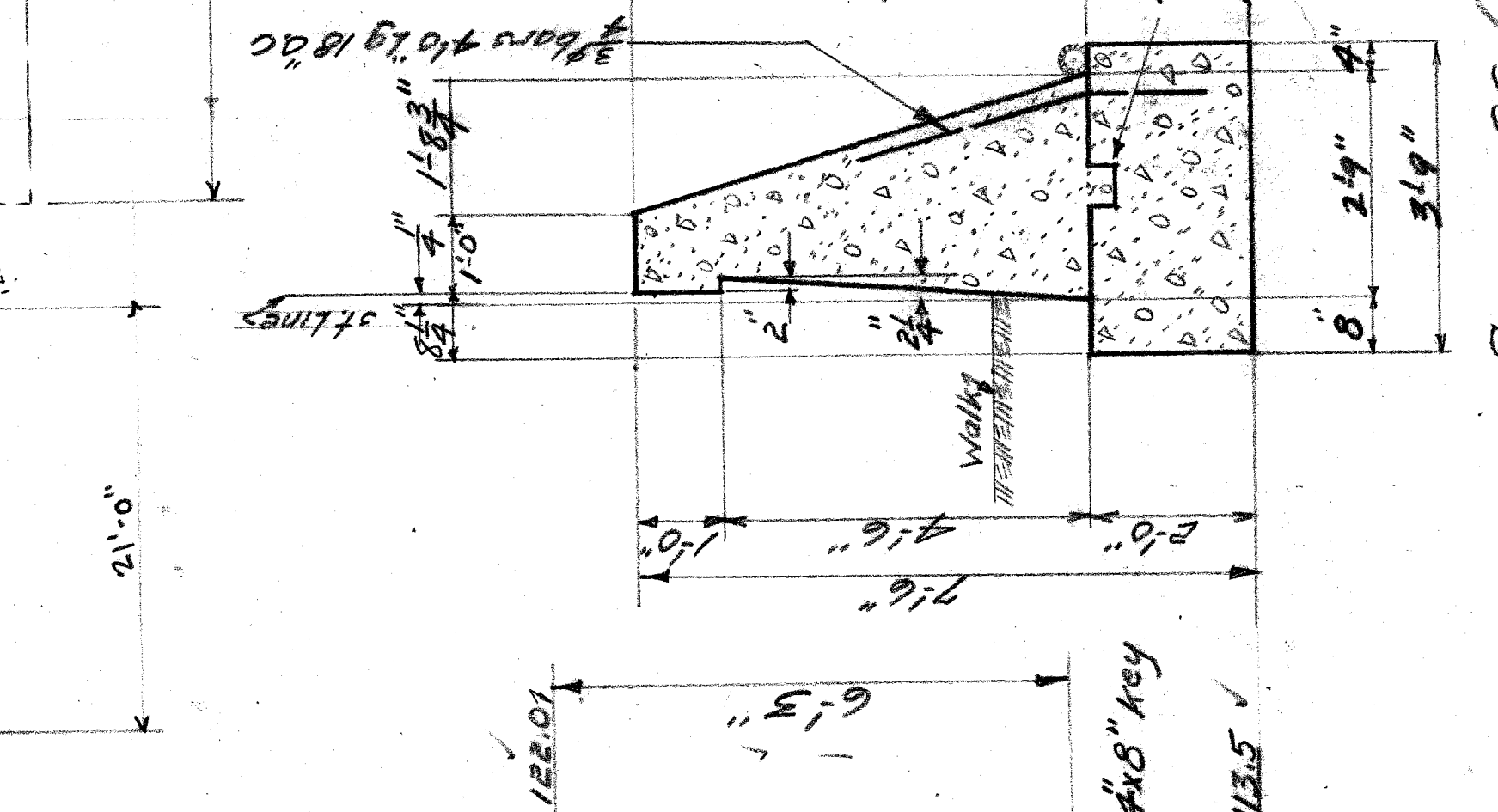
ELEVATION
Scale 1/4" = 1'-0"



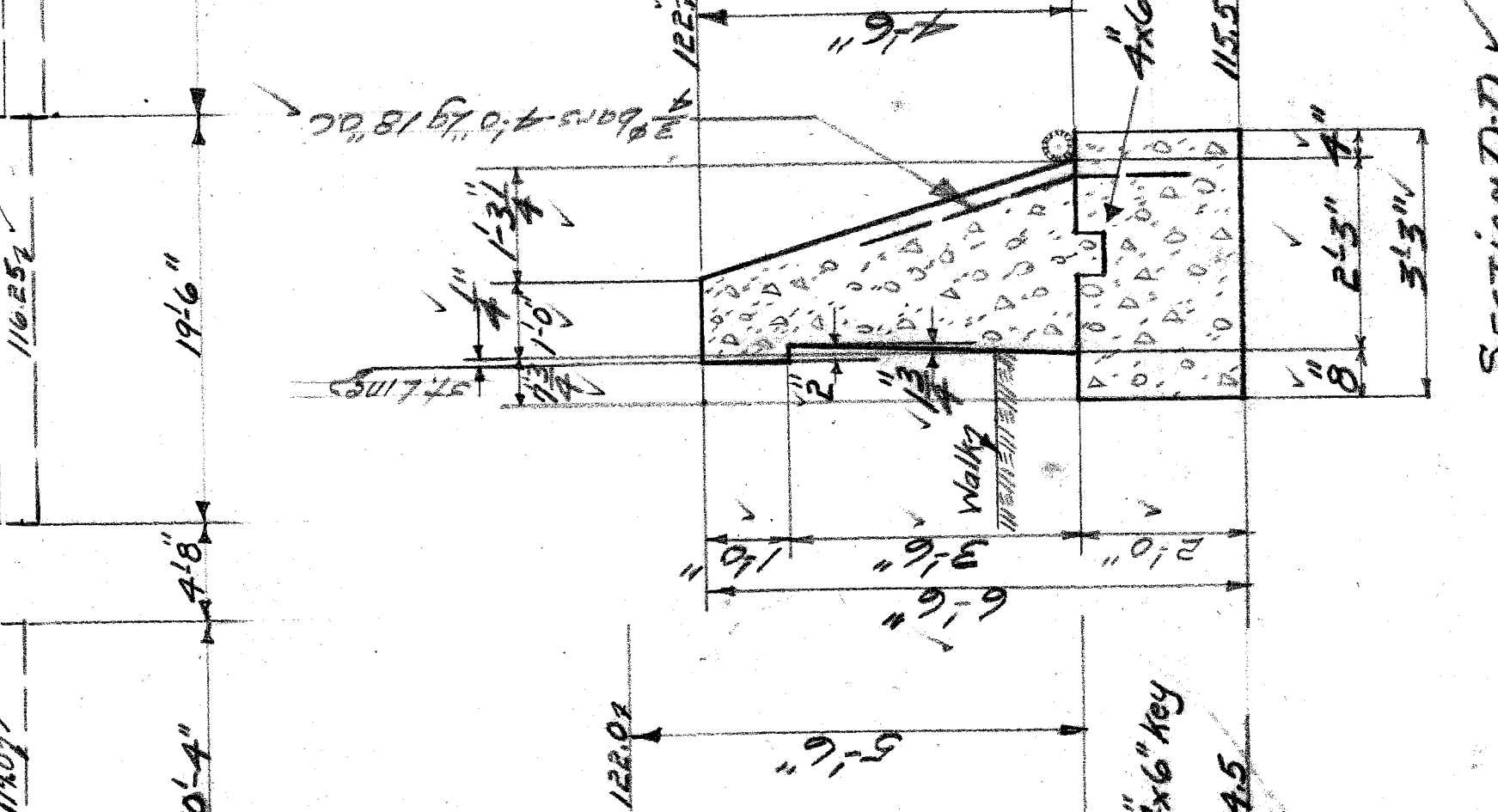
SECTION A-A
Scale 1/2" = 1'-0"



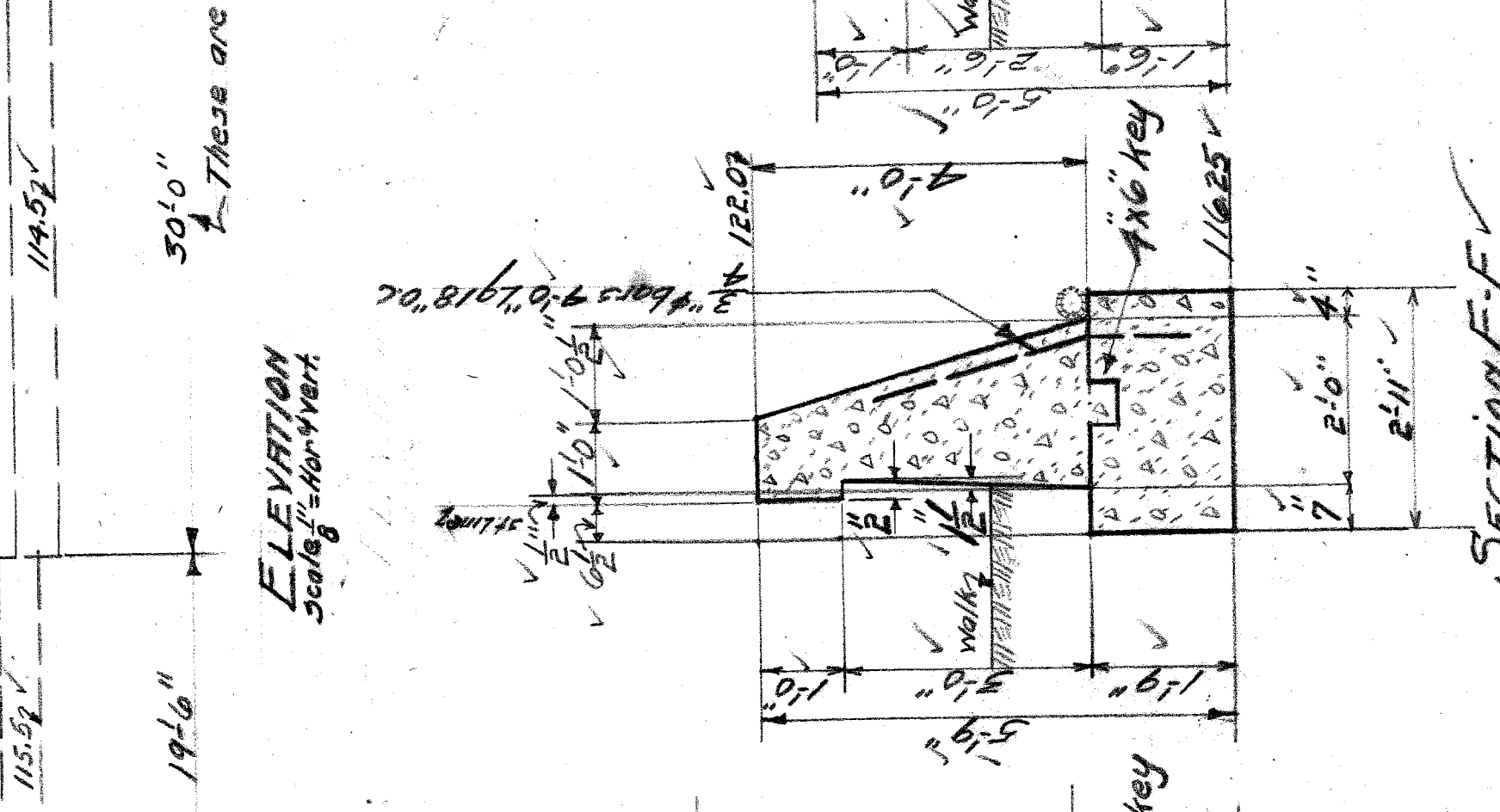
SECTION B-B
Scale 1/2" = 1'-0"



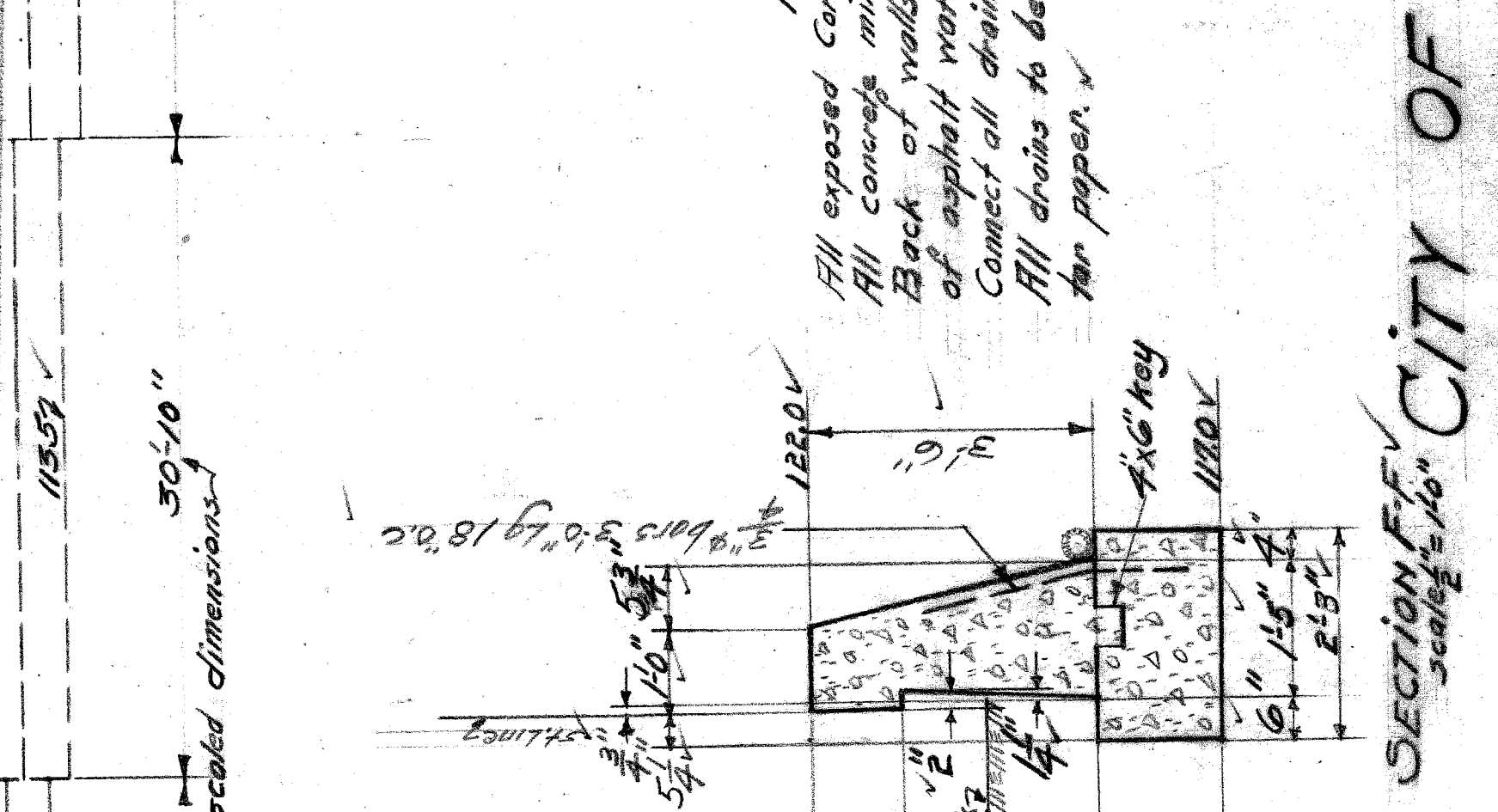
SECTION C-C
Scale 1/2" = 1'-0"



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



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

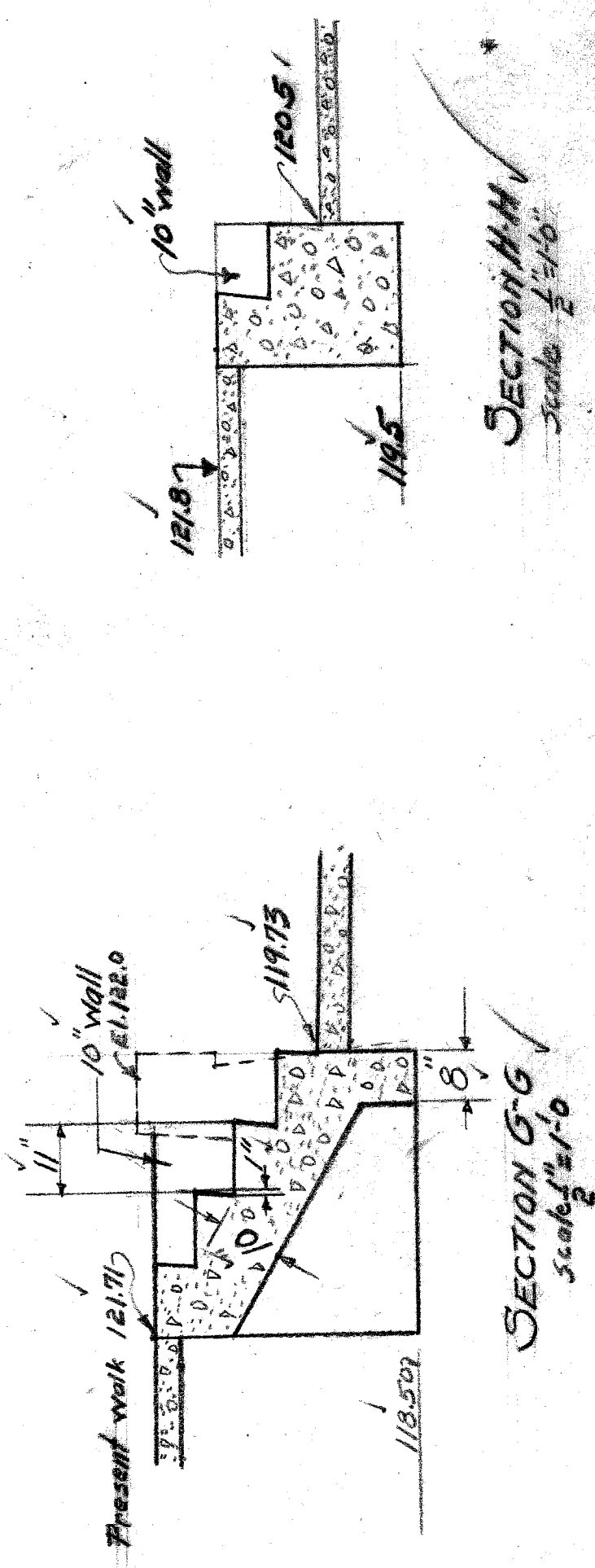


SECTION F-F
Scale 1/2" = 1'-0"

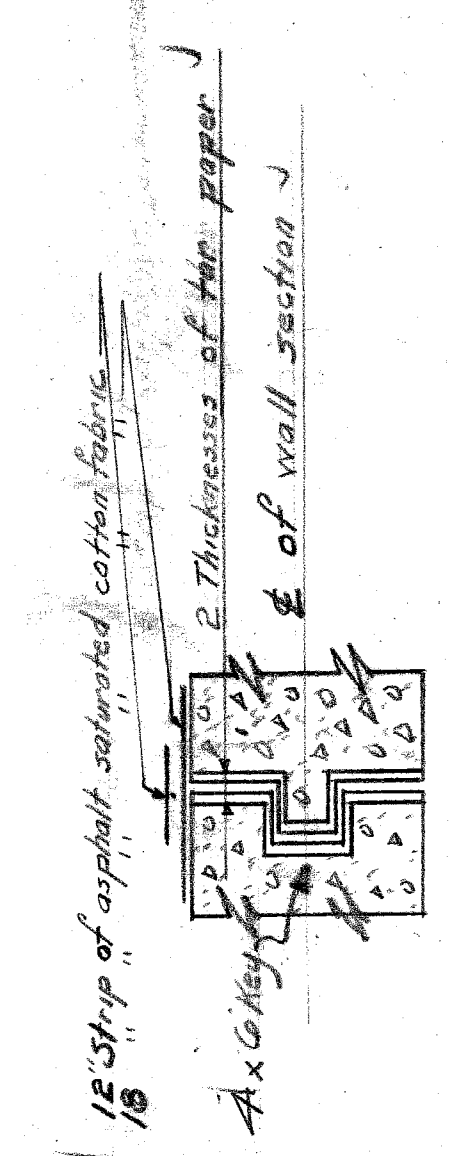
NOTES
 Fill exposed corners to be chamfered to 1".
 All concrete mix 1:2:4.
 Back of walls to receive two brush coats of asphalt waterproofing.
 Connect all drains to sewers.
 All drains to be 4" crock joints covered with tar paper.

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF GRADE SEPARATION & BRIDGES
 TWENTY-FIFTH STREET EAST SIDE
 NORTH OF RAILROAD EAST SIDE
 Scale as indicated
 Drawing made by - R. D. 10-26-38
 Checked by - R. D. 10-26-38

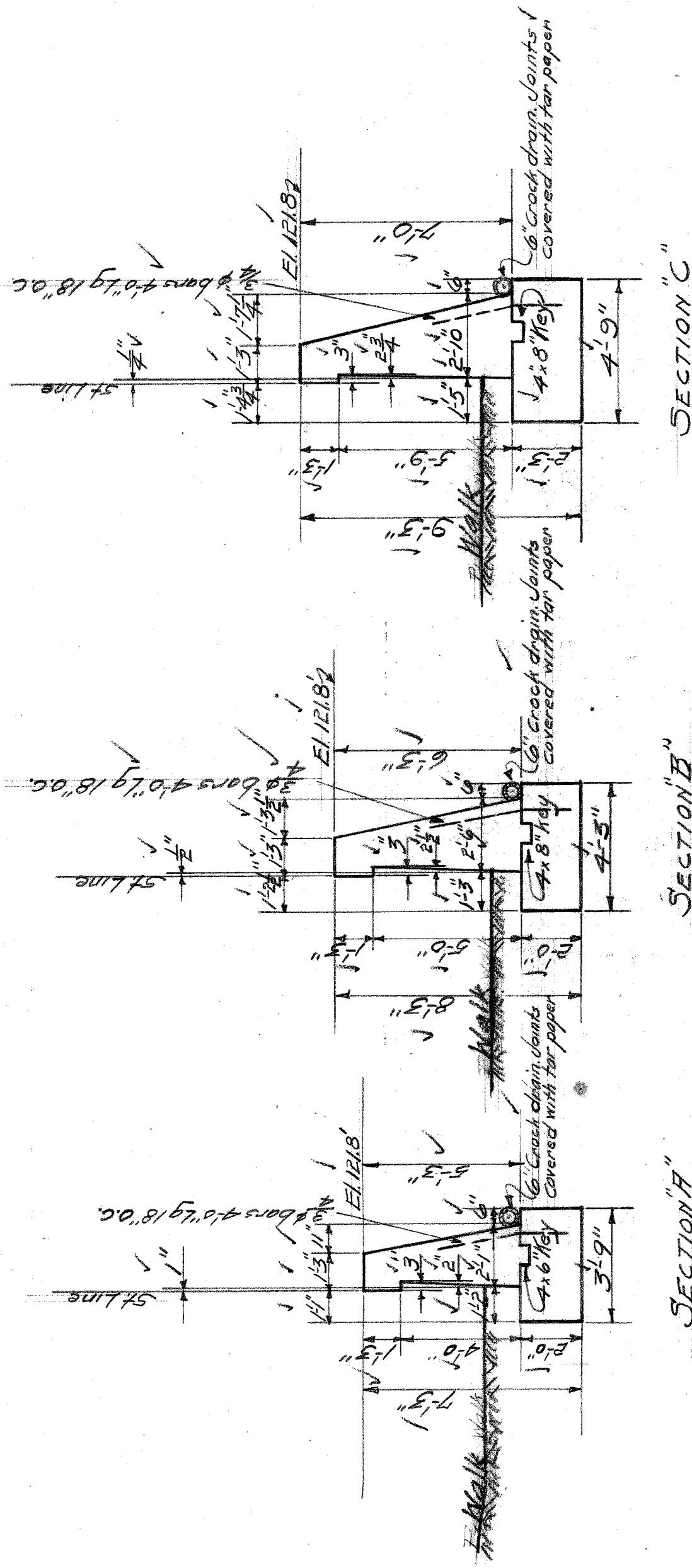
House No.	APPROVED DATE	OWNER
# 9150		
# 9154		



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



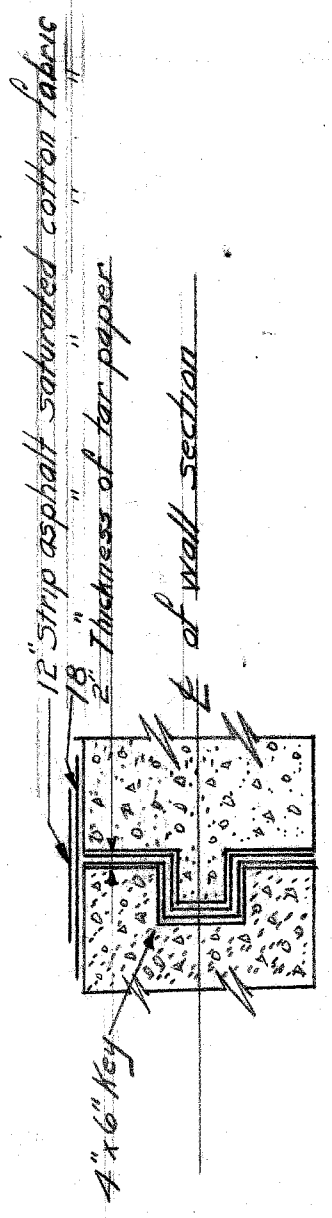
TYPICAL SECTION FOR VERTICAL JOINTS AT EXPANSION



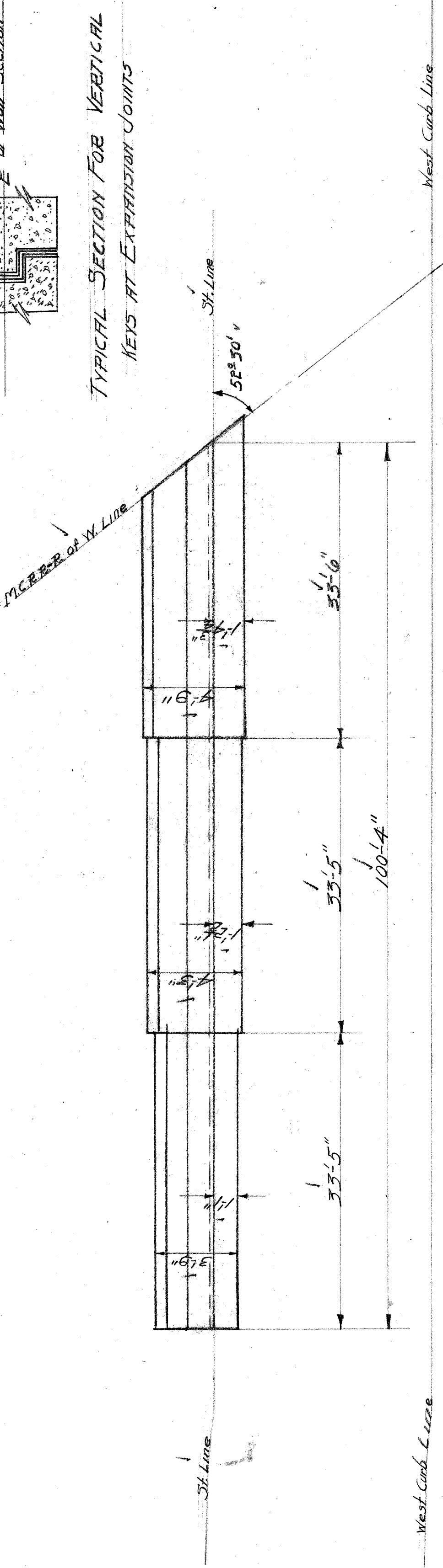
SECTION "A"

SECTION "B"

SECTION "C"



TYPICAL SECTION FOR VERTICAL KEYS AT EXPANSION JOINTS



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

NOTES

All concrete mix 1:2:4
Back of walls to receive two brush coats of asphalt waterproofing
Connect drains to sewer.

QUANTITIES
CONCRETE 77 CU YDS
REINFORCING STEEL 405 #
6x6 Crack 101 L.F.

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
DIVISION OF GRADE SEPARATION & BRIDGES
TWENTY-FIFTH ST WALL
South of RR - West Side
IN FRONT OF THE LAMKIN & CHOWEN COAL YARD

DR. CIVIL
CHAS. W. S. 7-25-25 Book 417A 990
Date July 24, 1925

ELEVATION
Scale 1/8" = 1'-0"

MCR

File XU 23-74

