

# LORAIN-CENTRAL BRIDGE

## BUILDINGS TO BE WRECKED

NO.	NAME	LOCATION	TYPE OF BUILDING	REMARKS
1	Durica	W.19	2 SB Apt.	
2	Dilski	" & Lorain	2SF Store & Shed	
3	Groff	1809 "	" dwell. "	
4	Rubnak	1801 "	" " & Store	
5	"	1803 "	" " "	
6	"	2016 W.18	" "	
7	Seidman	1719 Lorain	" "	
8	"	1715 "	" "	
9	"	2017 W.18	1 1/2 SF " & Shed	
10	"	1707 Lorain	2 " " "	
11	Swartwood	W.17	" " "	Part
12	"	"	" " "	
13	"	"	1SF Shed	
14	Ulbris	2023 W.18	2SF dwell & shed	
15	Pirozek	2027 "	1 1/2 " " "	
16	Soltis	2022 W.17	1 " " "	
17	Kotris	2024 "	1 1/2 " " "	
18	Bransovsky	2030 "	2 " " "	
19	Sprencz	2023 "	1 " " "	
20	"	" "	2 " " "	
21	Shaltenis	2029 "	1 " " "	
22	"	" "	1 SB Garage	
23				
24				
25				
26	Dunn Box Co.	W.3 & W.4 St.	1SB Factory & Sheds	Wreck last
27	B. & O. R.R.	"	2SF Shed	" "
28	Mercantile Warehouse	Canal Rd.	4SB Bldg.	" "

All materials to be the property of the Contractor.  
 Permits for cutting off gas, water or any other public utilities to be obtained by this Contractor. Premises to be left clear of all rubbish. Cellars & basements also are to be cleared of all rubbish.  
 All work to be done to the satisfaction of the County Engineer.













# THE OHIO DRILLING COMPANY

CONTRACTORS  
FOR MUNICIPALITIES  
INDUSTRIES AND RESIDUALS

MASSILLON, OHIO

January 19, 1928.

Board of County Commissioners,  
Cleveland, Ohio.

The following is a record of test  
hole #13 drilled at site of Lorain-Central Bridge, 179 yards west  
of Lorain Avenue on W. 17th Street, 50 yards east of end of Street:

Length of Pipe	Strata	Total Depth
5 ft.	Sand	5 ft.
3 ft.	Sand	8 ft.
2 ft.	Sand	10 ft.
3 ft.	Sand	13 ft.
3 ft.	Little clay	16 ft.
3 ft.	Sand, little clay	19 ft.
3 ft.	Sand, little clay	22 ft.
3 ft.	Sand, little clay	25 ft.
3 ft.	Sand, little clay	28 ft.
3 ft.	Sand, little clay	31 ft.
3 ft.	Sand, little clay	34 ft.
3 ft.	Sand, little clay	37 ft.
3 ft.	Sand, little clay	40 ft.
3 ft.	Sand, little clay	43 ft.
3 ft.	Sand, little clay	46 ft.
3 ft.	Sand, little clay	49 ft.
3 ft.	Sand, little clay	52 ft.
3 ft.	Sand, little clay	55 ft.
3 ft.	Sand, little clay	58 ft.
3 ft.	Sand, little clay	61 ft.
3 ft.	Sand, little clay	64 ft.
3 ft.	Sand, little clay	67 ft.
3 ft.	Sand, little clay	70 ft.
3 ft.	Sand, little clay	73 ft.
3 ft.	Sand, little clay	76 ft.
3 ft.	Sand, little clay	79 ft.
3 ft.	Sand, little clay	82 ft.
3 ft.	Sand, little clay	85 ft.
3 ft.	Sand, little clay	88 ft.
3 ft.	Sand, little clay	91 ft.
3 ft.	Sand, little clay	94 ft.
3 ft.	Sand, little clay	97 ft.
3 ft.	Sand, little clay	100 ft.
3 ft.	Sand, little clay	103 ft.
3 ft.	Sand, little clay	106 ft.
3 ft.	Sand, little clay	109 ft.
3 ft.	Sand, little clay	112 ft.
3 ft.	Sand, little clay	115 ft.
3 ft.	Sand, little clay	118 ft.
3 ft.	Sand, little clay	121 ft.
3 ft.	Sand, little clay	124 ft.
3 ft.	Sand, little clay	127 ft.
3 ft.	Sand, little clay	130 ft.

Invoice #7423  
Hole completed January 10, 1928.

# THE OHIO DRILLING COMPANY

CONTRACTORS  
FOR MUNICIPALITIES  
INDUSTRIES AND RESIDUALS

MASSILLON, OHIO

January 19, 1928.

Board of County Commissioners,  
Cleveland, Ohio.

This following is a record of test  
hole #2 drilled at site of Lorain-Central Bridge, 3 yards west of  
Eastern and 79 yards north of Blk 4 Bridge:

Length of Pipe	Strata	Total Depth
5 ft.	Clay	5 ft.
3 ft.	Clay	8 ft.
3 ft.	Clay	11 ft.
3 ft.	Clay	14 ft.
3 ft.	Clay	17 ft.
3 ft.	Clay	20 ft.
3 ft.	Clay	23 ft.
3 ft.	Clay	26 ft.
3 ft.	Clay	29 ft.
3 ft.	Clay	32 ft.
3 ft.	Clay	35 ft.
3 ft.	Clay	38 ft.
3 ft.	Clay	41 ft.
3 ft.	Clay	44 ft.
3 ft.	Clay	47 ft.
3 ft.	Clay	50 ft.
3 ft.	Clay	53 ft.
3 ft.	Clay	56 ft.
3 ft.	Clay	59 ft.
3 ft.	Clay	62 ft.
3 ft.	Clay	65 ft.
3 ft.	Clay	68 ft.
3 ft.	Clay	71 ft.
3 ft.	Clay	74 ft.
3 ft.	Clay	77 ft.
3 ft.	Clay	80 ft.
3 ft.	Clay	83 ft.
3 ft.	Clay	86 ft.
3 ft.	Clay	89 ft.
3 ft.	Clay	92 ft.
3 ft.	Clay	95 ft.
3 ft.	Clay	98 ft.
3 ft.	Clay	101 ft.
3 ft.	Clay	104 ft.
3 ft.	Clay	107 ft.
3 ft.	Clay	110 ft.
3 ft.	Clay	113 ft.
3 ft.	Clay	116 ft.
3 ft.	Clay	119 ft.
3 ft.	Clay	122 ft.
3 ft.	Clay	125 ft.
3 ft.	Clay	128 ft.
3 ft.	Clay	131 ft.
3 ft.	Clay	134 ft.
3 ft.	Clay	137 ft.
3 ft.	Clay	140 ft.
3 ft.	Clay	143 ft.
3 ft.	Clay	146 ft.
3 ft.	Clay	149 ft.
3 ft.	Clay	152 ft.
3 ft.	Clay	155 ft.
3 ft.	Clay	158 ft.
3 ft.	Clay	161 ft.
3 ft.	Clay	164 ft.
3 ft.	Clay	167 ft.
3 ft.	Clay	170 ft.
3 ft.	Clay	173 ft.
3 ft.	Clay	176 ft.
3 ft.	Clay	179 ft.
3 ft.	Clay	182 ft.
3 ft.	Clay	185 ft.
3 ft.	Clay	188 ft.
3 ft.	Clay	191 ft.
3 ft.	Clay	194 ft.
3 ft.	Clay	197 ft.
3 ft.	Clay	200 ft.
3 ft.	Clay	203 ft.
3 ft.	Clay	206 ft.
3 ft.	Clay	209 ft.
3 ft.	Clay	212 ft.
3 ft.	Clay	215 ft.
3 ft.	Clay	218 ft.
3 ft.	Clay	221 ft.
3 ft.	Clay	224 ft.
3 ft.	Clay	227 ft.
3 ft.	Clay	230 ft.
3 ft.	Clay	233 ft.
3 ft.	Clay	236 ft.
3 ft.	Clay	239 ft.
3 ft.	Clay	242 ft.
3 ft.	Clay	245 ft.
3 ft.	Clay	248 ft.
3 ft.	Clay	251 ft.
3 ft.	Clay	254 ft.
3 ft.	Clay	257 ft.
3 ft.	Clay	260 ft.
3 ft.	Clay	263 ft.
3 ft.	Clay	266 ft.
3 ft.	Clay	269 ft.
3 ft.	Clay	272 ft.
3 ft.	Clay	275 ft.
3 ft.	Clay	278 ft.
3 ft.	Clay	281 ft.
3 ft.	Clay	284 ft.
3 ft.	Clay	287 ft.
3 ft.	Clay	290 ft.
3 ft.	Clay	293 ft.
3 ft.	Clay	296 ft.
3 ft.	Clay	299 ft.
3 ft.	Clay	302 ft.
3 ft.	Clay	305 ft.
3 ft.	Clay	308 ft.
3 ft.	Clay	311 ft.
3 ft.	Clay	314 ft.
3 ft.	Clay	317 ft.
3 ft.	Clay	320 ft.
3 ft.	Clay	323 ft.
3 ft.	Clay	326 ft.
3 ft.	Clay	329 ft.
3 ft.	Clay	332 ft.
3 ft.	Clay	335 ft.
3 ft.	Clay	338 ft.
3 ft.	Clay	341 ft.
3 ft.	Clay	344 ft.
3 ft.	Clay	347 ft.
3 ft.	Clay	350 ft.
3 ft.	Clay	353 ft.
3 ft.	Clay	356 ft.
3 ft.	Clay	359 ft.
3 ft.	Clay	362 ft.
3 ft.	Clay	365 ft.
3 ft.	Clay	368 ft.
3 ft.	Clay	371 ft.
3 ft.	Clay	374 ft.
3 ft.	Clay	377 ft.
3 ft.	Clay	380 ft.
3 ft.	Clay	383 ft.
3 ft.	Clay	386 ft.
3 ft.	Clay	389 ft.
3 ft.	Clay	392 ft.
3 ft.	Clay	395 ft.
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3 ft.	Clay	434 ft.
3 ft.	Clay	437 ft.
3 ft.	Clay	440 ft.
3 ft.	Clay	443 ft.
3 ft.	Clay	446 ft.
3 ft.	Clay	449 ft.
3 ft.	Clay	452 ft.
3 ft.	Clay	455 ft.
3 ft.	Clay	458 ft.
3 ft.	Clay	461 ft.
3 ft.	Clay	464 ft.
3 ft.	Clay	467 ft.
3 ft.	Clay	470 ft.
3 ft.	Clay	473 ft.
3 ft.	Clay	476 ft.
3 ft.	Clay	479 ft.
3 ft.	Clay	482 ft.
3 ft.	Clay	485 ft.
3 ft.	Clay	488 ft.
3 ft.	Clay	491 ft.
3 ft.	Clay	494 ft.
3 ft.	Clay	497 ft.
3 ft.	Clay	500 ft.
3 ft.	Clay	503 ft.
3 ft.	Clay	506 ft.
3 ft.	Clay	509 ft.
3 ft.	Clay	512 ft.
3 ft.	Clay	515 ft.
3 ft.	Clay	518 ft.
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3 ft.	Clay	524 ft.
3 ft.	Clay	527 ft.
3 ft.	Clay	530 ft.
3 ft.	Clay	533 ft.
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3 ft.	Clay	539 ft.
3 ft.	Clay	542 ft.
3 ft.	Clay	545 ft.
3 ft.	Clay	548 ft.
3 ft.	Clay	551 ft.
3 ft.	Clay	554 ft.
3 ft.	Clay	557 ft.
3 ft.	Clay	560 ft.
3 ft.	Clay	563 ft.
3 ft.	Clay	566 ft.
3 ft.	Clay	569 ft.
3 ft.	Clay	572 ft.
3 ft.	Clay	575 ft.
3 ft.	Clay	578 ft.
3 ft.	Clay	581 ft.
3 ft.	Clay	584 ft.
3 ft.	Clay	587 ft.
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3 ft.	Clay	737 ft.
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3 ft.	Clay	761 ft.
3 ft.	Clay	764 ft.
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3 ft.	Clay	785 ft.
3 ft.	Clay	788 ft.
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3 ft.	Clay	794 ft.
3 ft.	Clay	797 ft.
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3 ft.	Clay	803 ft.
3 ft.	Clay	806 ft.
3 ft.	Clay	809 ft.
3 ft.	Clay	812 ft.
3 ft.	Clay	815 ft.
3 ft.	Clay	818 ft.
3 ft.	Clay	821 ft.
3 ft.	Clay	824 ft.
3 ft.	Clay	827 ft.
3 ft.	Clay	830 ft.
3 ft.	Clay	833 ft.
3 ft.	Clay	836 ft.
3 ft.	Clay	839 ft.
3 ft.	Clay	842 ft.
3 ft.	Clay	845 ft.
3 ft.	Clay	848 ft.
3 ft.	Clay	851 ft.
3 ft.	Clay	854 ft.
3 ft.	Clay	857 ft.
3 ft.	Clay	860 ft.
3 ft.	Clay	863 ft.
3 ft.	Clay	866 ft.
3 ft.	Clay	869 ft.
3 ft.	Clay	872 ft.
3 ft.	Clay	875 ft.
3 ft.	Clay	878 ft.
3 ft.	Clay	881 ft.
3 ft.	Clay	884 ft.
3 ft.	Clay	887 ft.
3 ft.	Clay	890 ft.
3 ft.	Clay	893 ft.
3 ft.	Clay	896 ft.
3 ft.	Clay	899 ft.
3 ft.	Clay	902 ft.
3 ft.	Clay	905 ft.
3 ft.	Clay	908 ft.
3 ft.	Clay	911 ft.
3 ft.	Clay	914 ft.
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3 ft.	Clay	920 ft.
3 ft.	Clay	923 ft.
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3 ft.	Clay	938 ft.
3 ft.	Clay	941 ft.
3 ft.	Clay	944 ft.
3 ft.	Clay	947 ft.
3 ft.	Clay	950 ft.
3 ft.	Clay	953 ft.
3 ft.	Clay	956 ft.
3 ft.	Clay	959 ft.
3 ft.	Clay	962 ft.
3 ft.	Clay	965 ft.
3 ft.	Clay	968 ft.
3 ft.	Clay	971 ft.
3 ft.	Clay	974 ft.
3 ft.	Clay	977 ft.
3 ft.	Clay	980 ft.
3 ft.	Clay	983 ft.
3 ft.	Clay	986 ft.
3 ft.	Clay	989 ft.
3 ft.	Clay	992 ft.
3 ft.	Clay	995 ft.
3 ft.	Clay	998 ft.
3 ft.	Clay	1001 ft.

Invoice #7420  
Hole completed December 31, 1927.

# THE OHIO DRILLING COMPANY

CONTRACTORS  
FOR MUNICIPALITIES  
INDUSTRIES AND RESIDUALS

MASSILLON, OHIO

January 19, 1928.

Board of County Commissioners,  
Cleveland, Ohio.

This following is a record of test  
hole #1 drilled at site of Lorain-Central Bridge, 179 yards west  
of Lorain Avenue on W. 17th Street, 50 yards east of end of Street:

Length of Pipe	Strata	Total Depth
5 ft.	Clay & gravel	5 ft.
3 ft.	Clay & gravel	8 ft.
3 ft.	Clay & gravel	11 ft.
3 ft.	Clay & gravel	14 ft.
3 ft.	Clay & gravel	17 ft.
3 ft.	Clay & gravel	20 ft.
3 ft.	Clay & gravel	23 ft.
3 ft.	Clay & gravel	26 ft.
3 ft.	Clay & gravel	29 ft.
3 ft.	Clay & gravel	32 ft.
3 ft.	Clay & gravel	35 ft.
3 ft.	Clay & gravel	38 ft.
3 ft.	Clay & gravel	41 ft.
3 ft.	Clay & gravel	44 ft.
3 ft.	Clay & gravel	47 ft.
3 ft.	Clay & gravel	50 ft.
3 ft.</		



PROPERTY OF  
DUWACHA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE



PROPERTY OF  
DUWACHA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE

PROPERTY OF  
DUWACHA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE



PROPERTY OF  
CUYAHOGA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE

MAP SHOWING

BUILDINGS IN PLACE FEBRUARY, 1928.

# LORAIN-CENTRAL BRIDGE

BEING PART OF ORIGINAL BROOKLYN TOWNSHIP LOT NO. 70  
AND PART OF ORIGINAL ONE HUNDRED ACRE LOT NO. 481.

NOW IN THE CITY OF CLEVELAND

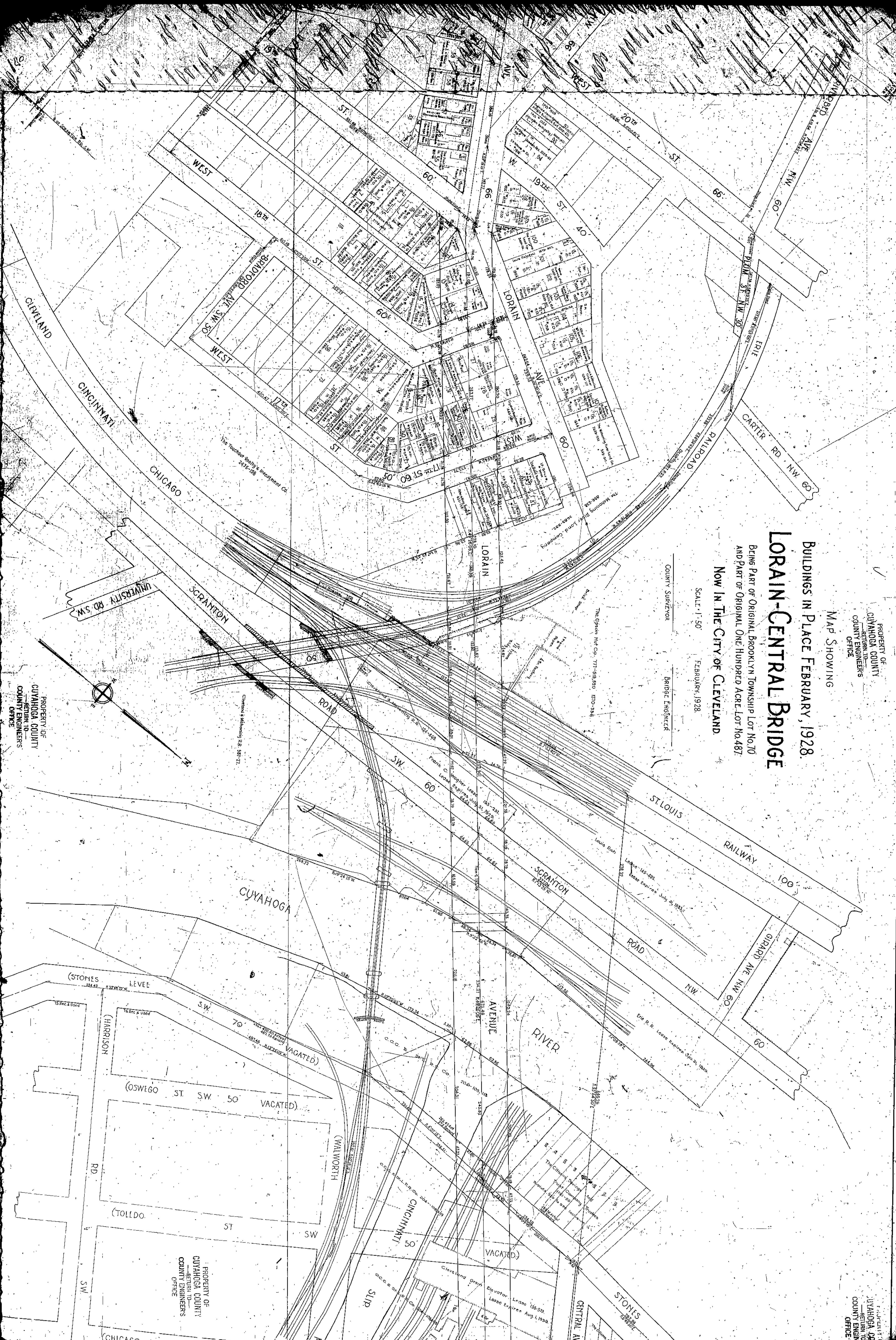
SCALE - 1" = 50'

FEBRUARY, 1928.

COUNTY SURVEYOR

BRIDGE ENGINEERS

PROPERTY OF  
CUYAHOGA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE



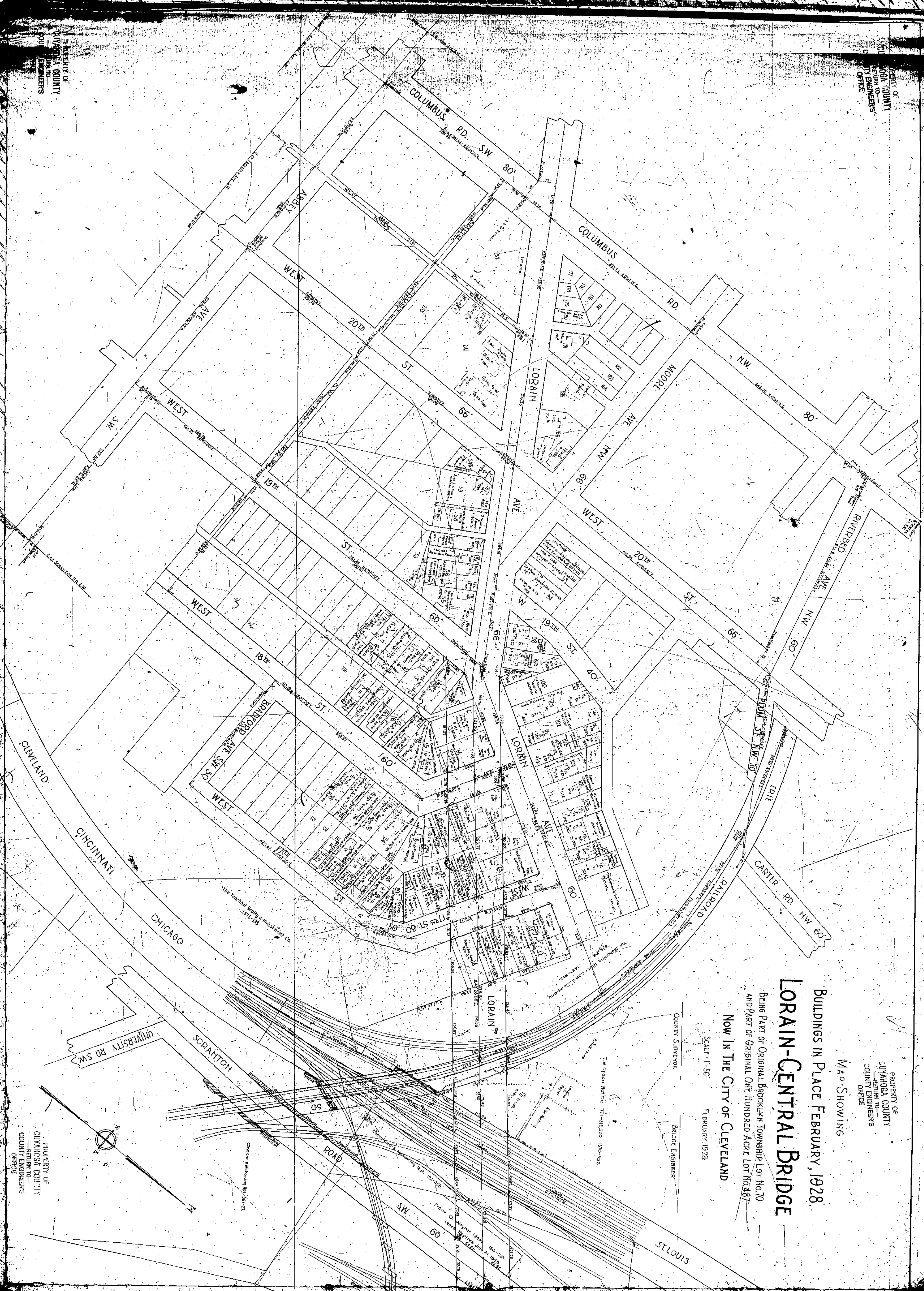
PROPERTY OF  
CUYAHOGA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE

PROPERTY OF  
CUYAHOGA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE



PROPERTY OF  
CUVAHOGA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE

PROPERTY OF  
CUVAHOGA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE



PROPERTY OF  
CUVAHOGA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE

# LORAIN-CENTRAL BRIDGE

BUILDINGS IN PLACE FEBRUARY, 1928.  
BEING PART OF ORIGINAL BROOKLYN TOWNSHIP LOT No. 10  
AND PART OF ORIGINAL ONE HUNDRED ACRE LOT No. 487  
NOW IN THE CITY OF CLEVELAND

SCALE 1" = 50'

FEBRUARY, 1928.

COUNTRY SURVEYOR

BEIJUD. ENGINEER



PROPERTY OF  
CUVAHOGA COUNTY  
RETURN TO  
COUNTY ENGINEERS  
OFFICE



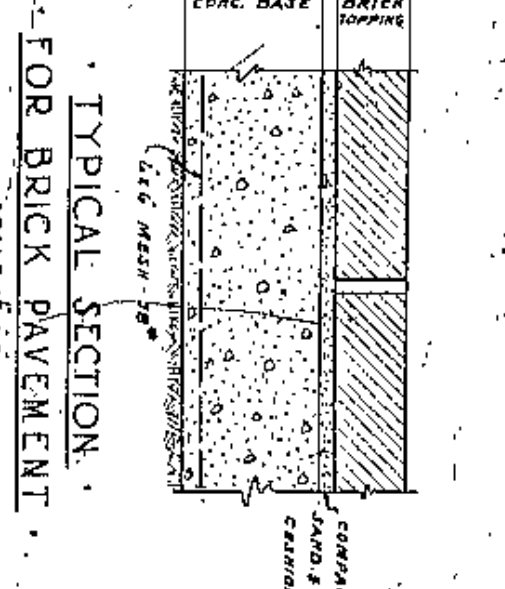
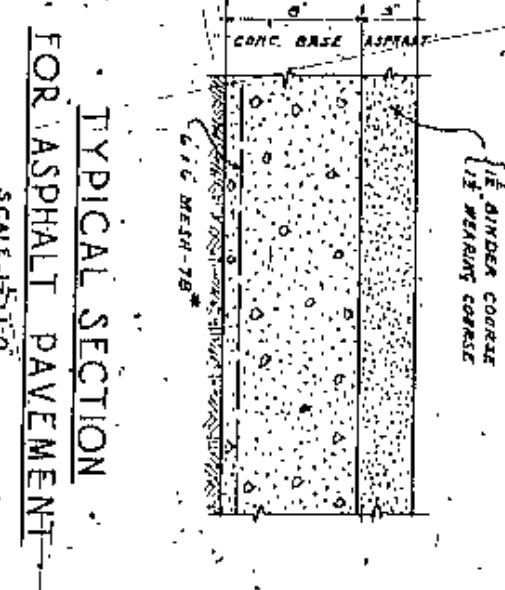
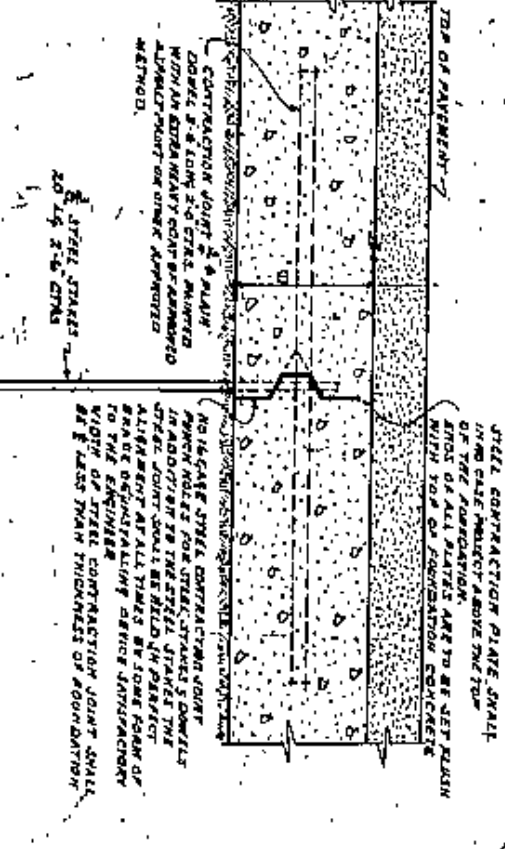




WEST 25<sup>TH</sup> STREET

SECTION THRU NEW SIDEWALK ON LORAIN AVE.  
BETWEEN W 24<sup>TH</sup> PLACE AND W 25<sup>TH</sup> STREET.  
SCALE 1/2" = 1'-0"

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



NOTE: CONTRACTORS TO MAKE ALL NECESSARY ADJUSTMENTS IN REGARD TO CONDUIT OF CONSTRUCTION WITH THE CITY OF CLEVELAND, THE CLEVELAND RY. CO. THE CLEVELAND BELL TELEPHONE CO., THE CLEVELAND ELECTRIC ILLUMINATING CO. & THE EAST OHIO GAS CO.

CRANKED WALKER BLOCKS TO BE LAID ON BOTH SIDES OF EACH RAIL.  
CONCRETE OVER ALL TRACINGS TO BE REINFORCED WITH 3 BARS 1/2" DIA. BOTH WAYS.

SEE INDICATED RESISTOR ELEVATIONS  
ON SHEET ESTABLISHED ELEVATIONS  
NEW ELEVATIONS

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SHERIFF  
COUNTY BRIDGE ENGINEER  
COUNTY ENGINEER  
COUNTY SURVEYOR  
COUNTY CLERK  
COUNTY RECORDER  
COUNTY TREASURER  
COUNTY JUDGE  
COUNTY CLERK

WIDENING OF LORAIN AVENUE  
WEST APPROACH  
SCALE 1/2" = 1'-0"

WILBUR WATSON AND F. R. WALKER  
CONSULTING ENGINEERS & ARCHITECTS  
CLEVELAND  
2

LORAIN CARNEGIE BRIDGE  
CLEVELAND

W. E. COOK  
J. H. HARRIS  
J. E. GORMAN

C. F. WILLIAMS  
A. M. FELGATE

CITY OF CLEVELAND  
ENGINEER  
CITY PLAN COM.

CITY OF CLEVELAND  
ENGINEER  
CITY PLAN COM.

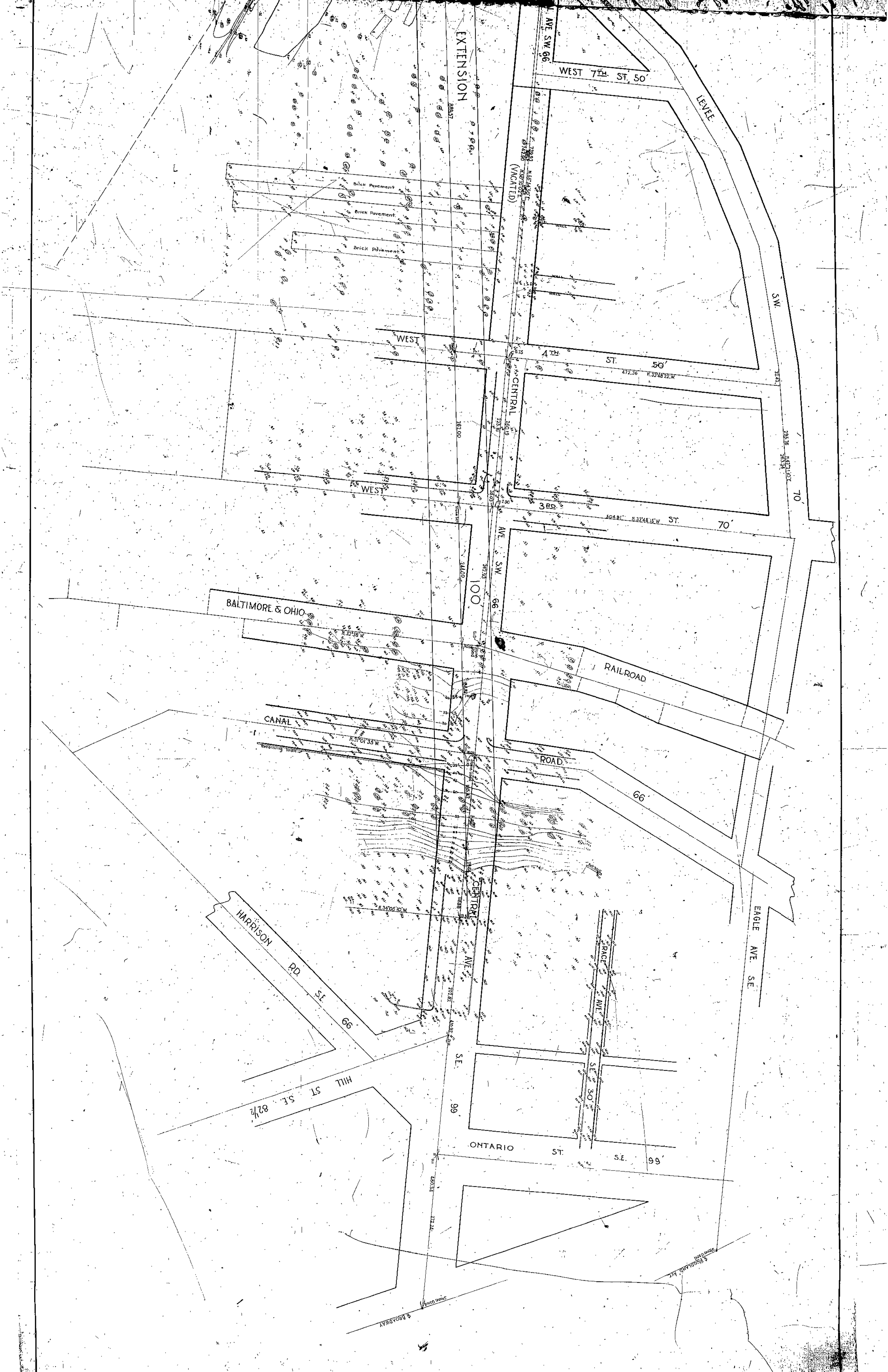
CITY OF CLEVELAND  
ENGINEER  
CITY PLAN COM.

CITY OF CLEVELAND  
ENGINEER  
CITY PLAN COM.











TOPOGRAPHICAL MAP

# LORAIN-CENTRAL BRIDGE

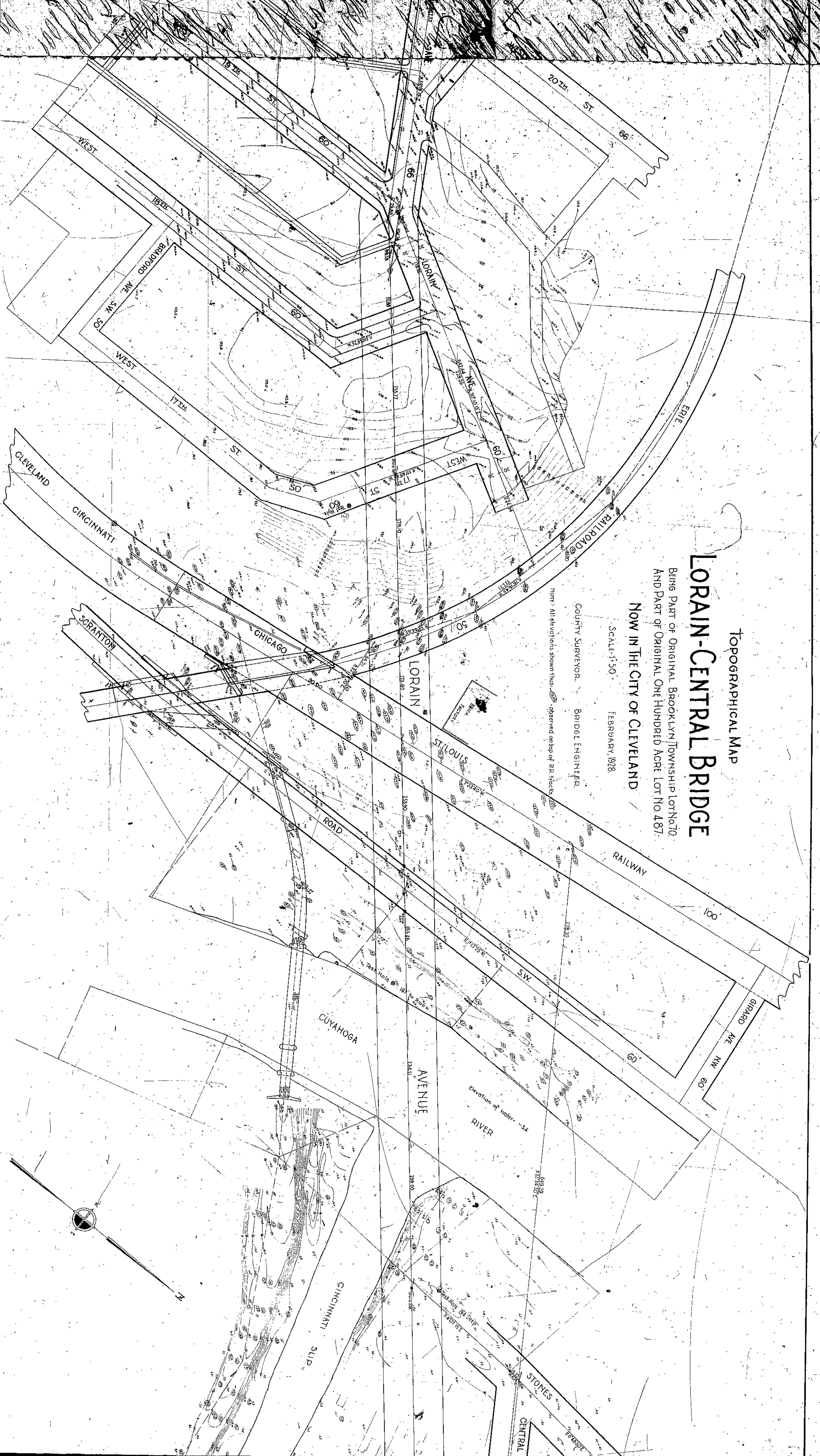
BEING PART OF ORIGINAL BROOKLYN TOWNSHIP LOT No. 70  
AND PART OF ORIGINAL ONE HUNDRED ACRE LOT No. 487.

NOW IN THE CITY OF CLEVELAND

SCALE: 1"=50' FEBRUARY 1928

COUNTY SURVEYOR. BRIDGE ENGINEER.

NOTE: All elevations shown thus:  observed on top of RR tracks.





TOPOGRAPHICAL MAP


# LORAIN-CENTRAL BRIDGE

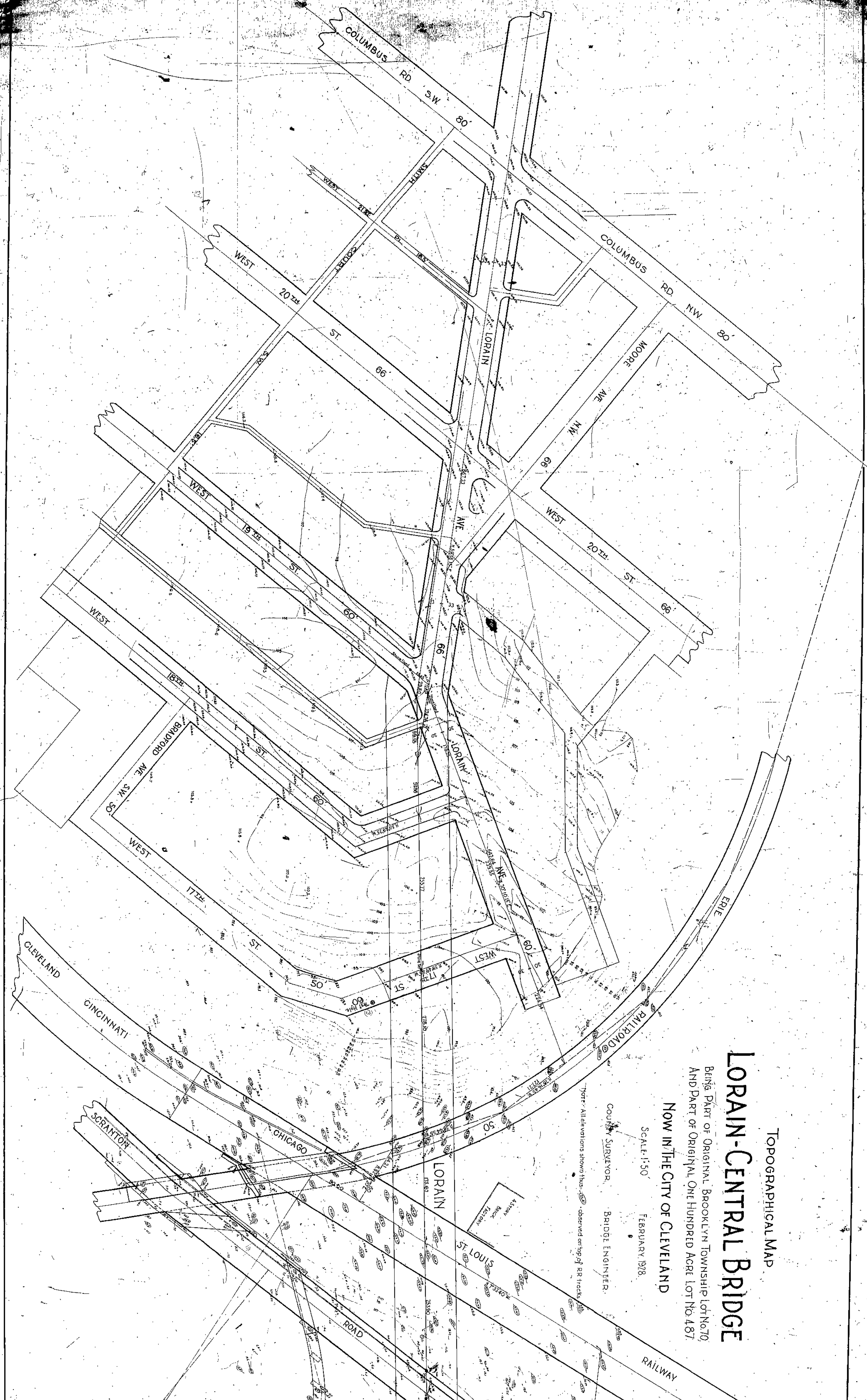
BRIDGE PART OF ORIGINAL BROOKLYN TOWNSHIP LOT NO. 70  
AND PART OF ORIGINAL ONE HUNDRED ACRE LOT NO. 187

NOW IN THE CITY OF CLEVELAND

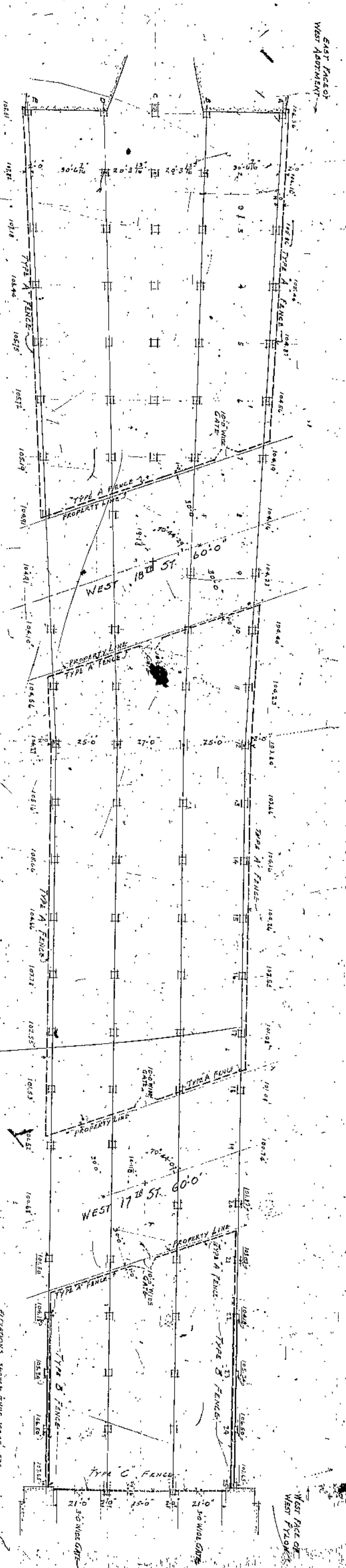
SCALE: 1"=50' FEBRUARY 1928

COUNTY SURVEYOR BRIDGE ENGINEER

NOTE: All elevations shown thus  observed on top of RR tracks

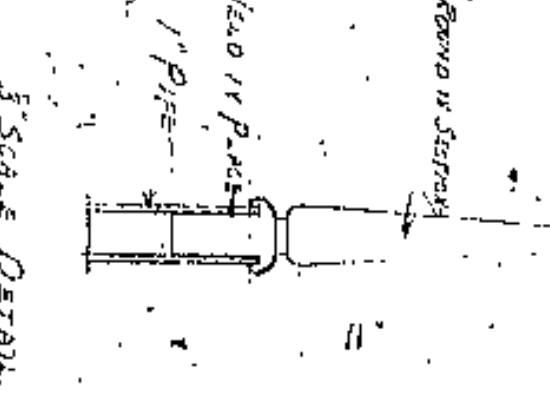
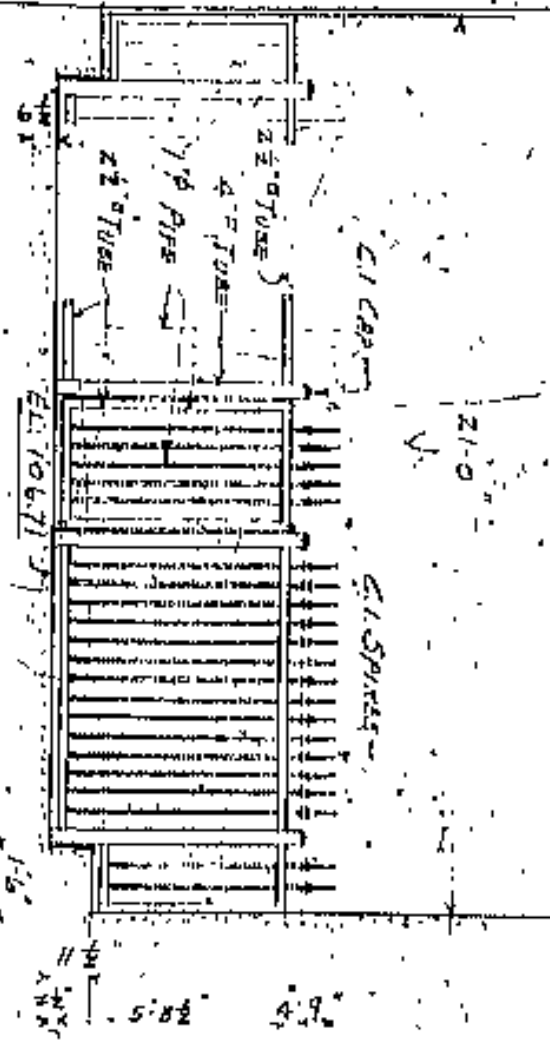
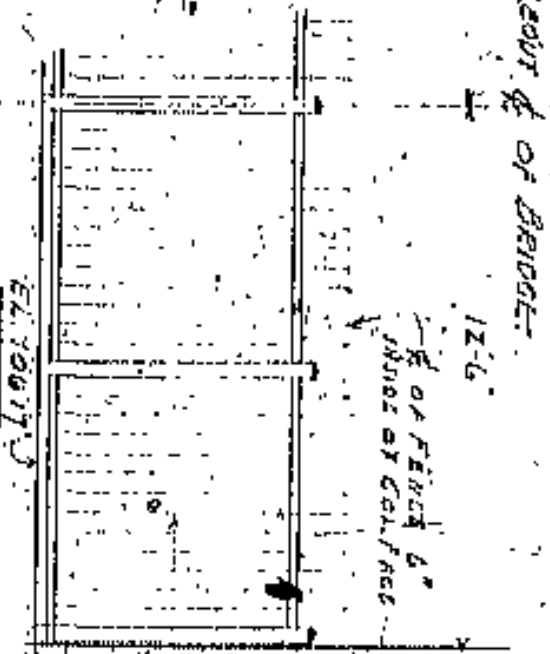






PLAN SHOWING FENCING UNDER BRIDGE BETWEEN WEST APARTMENT & WEST PLYWOOD  
SCALE 1" = 20'-0"

SYMMETRICAL ABOUT & OF BRIDGE



ELLEVATIONS SHOW THIS IN ACCORD WITH SURVEYOR'S GROUND LEVELS. ELEVATIONS SHOW THIS IN ACCORD WITH SURVEYOR'S GROUND LEVELS. 70' OF CONCRETE FOUNDATIONS.

LORAIN CANNON BRIDGE

WILBUR WATSON & F. K. WALKER  
CONSULTING ENGINEERS & ARCHITECTS  
F. R. WILLIAMS, COUNTY SURVEYOR  
J. M. FELGATE, COUNTY BRIDGE ENGINEER  
DRAWN MAY 5, 1932 BY C. H. J.  
DRAWING NO. A366-47



ST. CHARLES COUNTY, MO.  
PLAT OF THE  
S. 1/4 OF SECTION 16, T. 23 N., R. 23 W.,  
SCALE 1" = 40'

Information from Ohio Terminal Survey

Information from Road Survey

W 25<sup>th</sup> ST 82'

GERRING AVE 66'

488<sup>th</sup> AVE 66'

ZORIN AVE 66'

W 24<sup>th</sup> ST 66'

MOORE AVE 66'

W 23<sup>rd</sup> ST 162'

MOORE CT 162'

ROAD 85'

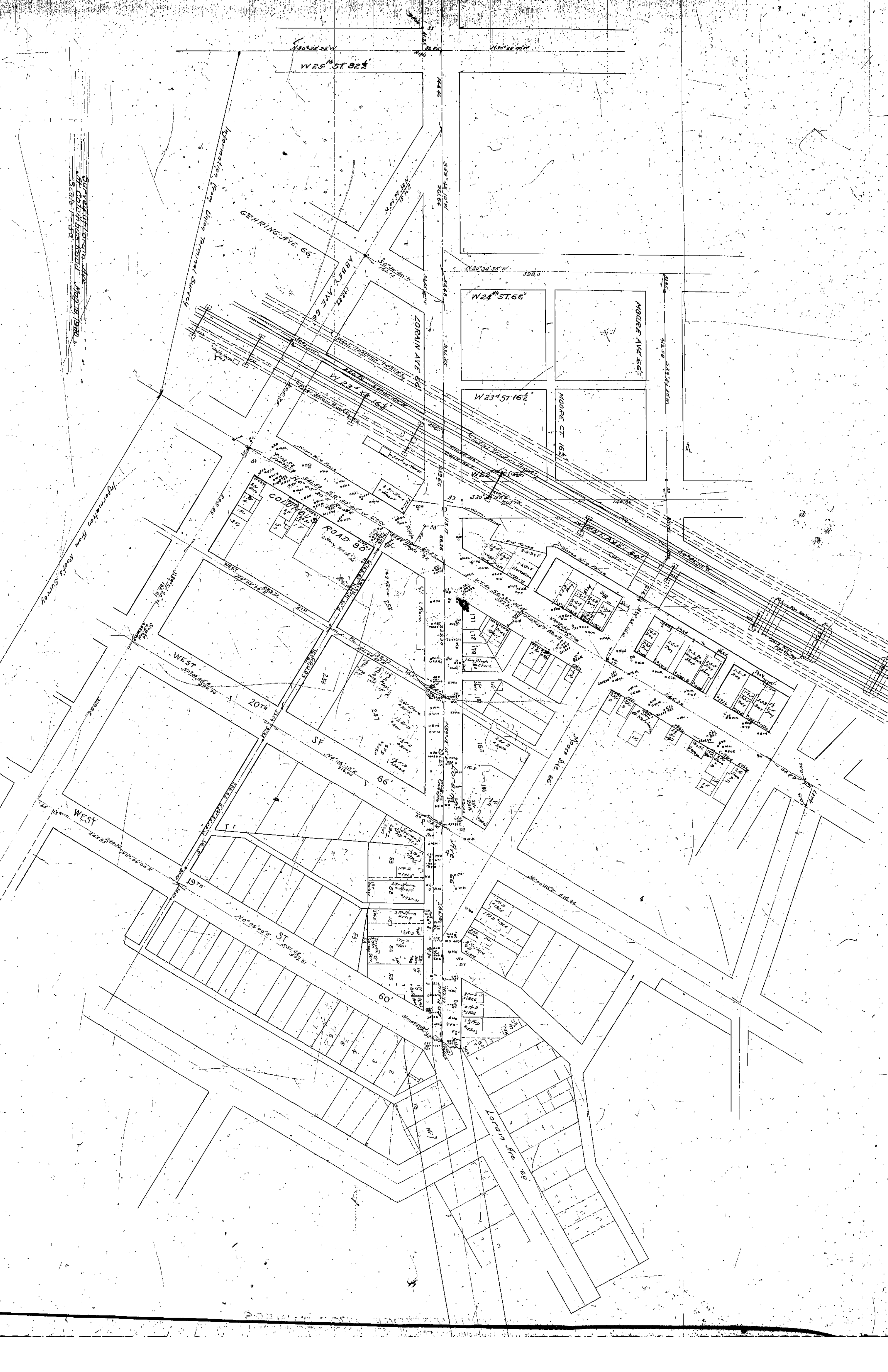
WEST 20<sup>th</sup> ST 66'

WEST 19<sup>th</sup> ST 66'

WEST 18<sup>th</sup> ST 66'

LORAIN AVE 66'

Handwritten notes and scribbles along the left margin of the map.









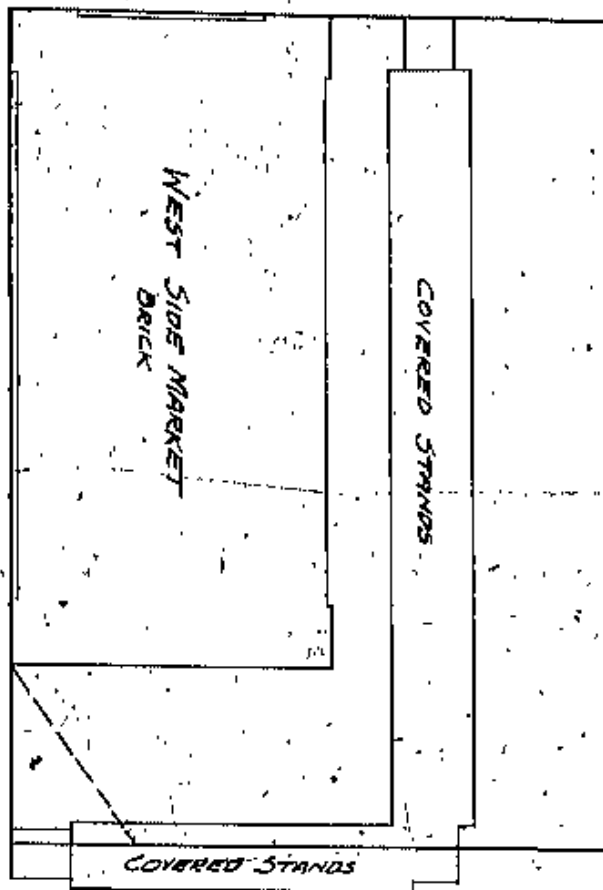








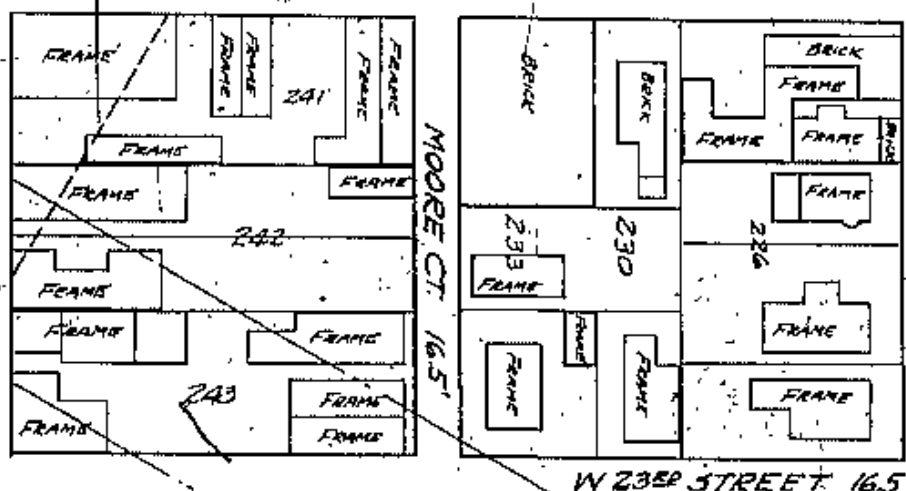
W 25th STREET



WEST 24th STREET 66

GEHRING AVE 66

WABBY AVE 66



W 23rd STREET 66.5

WEST 22nd STREET 66

CLEVELAND UNION TERMINALS CO. RIGHT OF WAY

COLUMBUS ROAD 80

LORAIN AVE 66

WEST 20th STREET 66

MOORE AVE 66

WEST 19th STREET 60

WEST 18th STREET 60

WEST 17th STREET 60

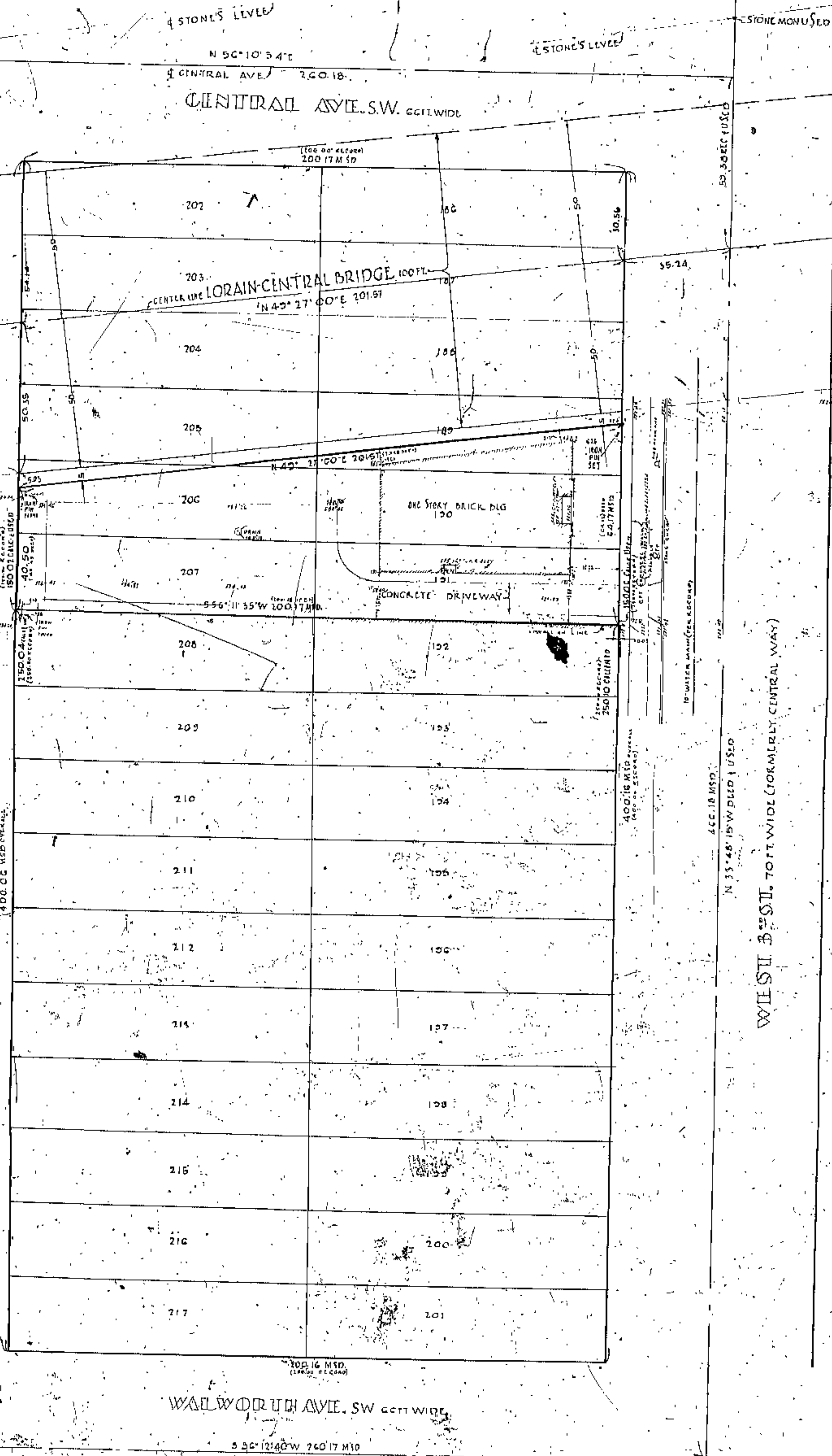
LORAIN AVE 60

CO. AUDITOR  
CE. ENR.  
BRIDGE ENG.



WEST 4<sup>th</sup> ST. 50 FT. WIDE (FORMERLY SCOWDEN ST.)

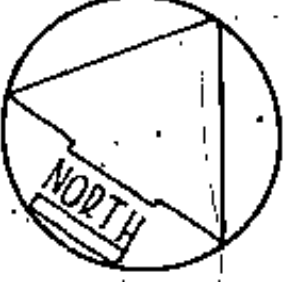
N 53° 48' 24" W 440.05 MTD. 1/3 S.C.I.



WALWORTH AVE. SW 60 FT. WIDE  
S 50° 12' 40" W 760.17 MTD.

WEST 5<sup>th</sup> ST. 70 FT. WIDE (FORMERLY CENTRAL WAY)

N 33° 48' 15" W 760.17 MTD. 1/3 S.C.I.



PLAT OF SURVEY FOR  
NATIONAL ENGINEERING &  
CONTRACTING CO.

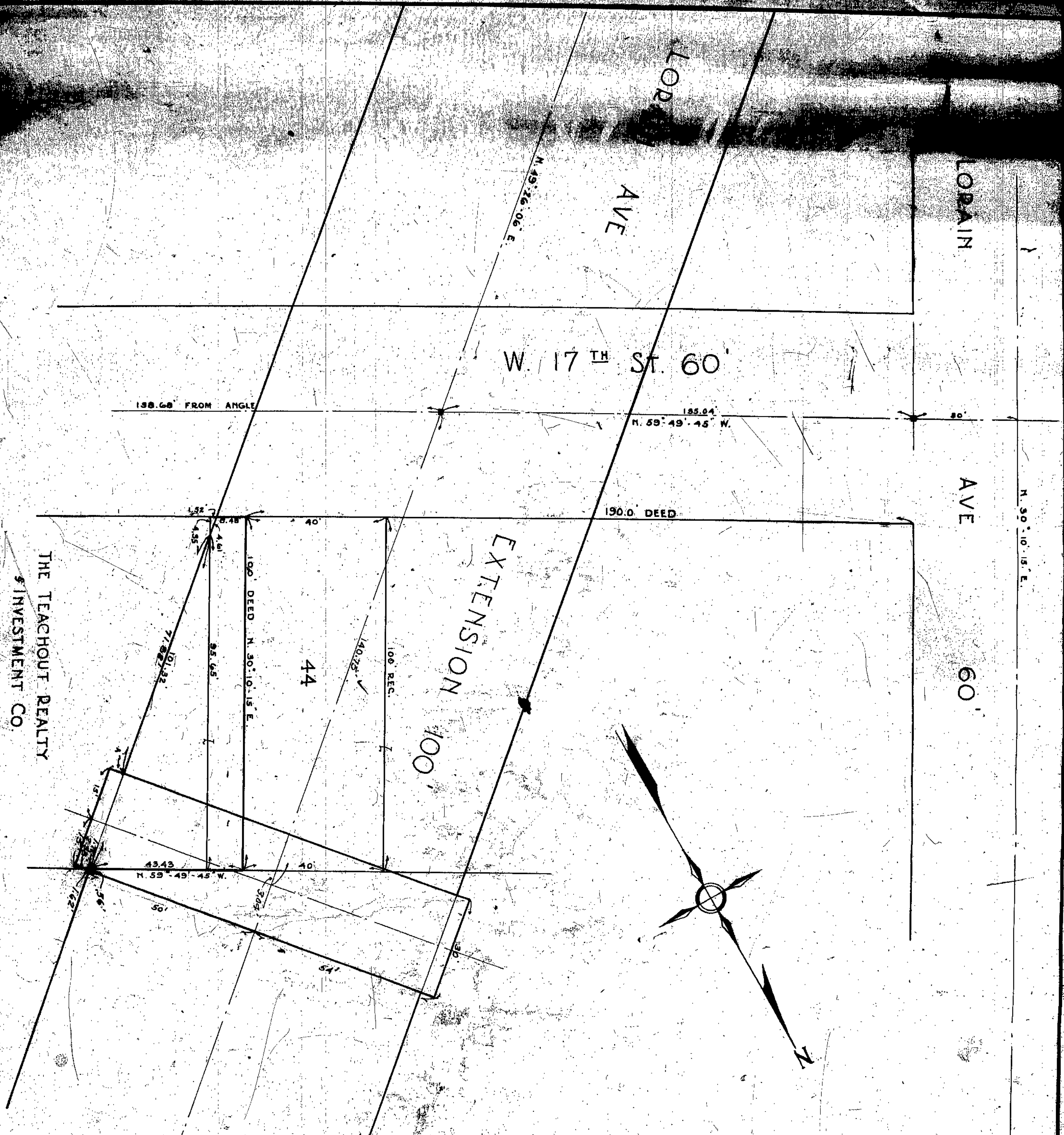
BEING PARTS OF SUBLOTS NOS. 205, 206, 207 OF  
S. S. STONE'S SURVEY OF CENTRAL TRACT OF  
PART OF ORIGINAL 100 ACRES LOT NO. 487, &  
RECORDED IN VOL. 2 OF MAPS, PAGE 30 OF  
CITY OF CLEVELAND COUNTY OF CUYAHOGA  
& STATE OF OHIO

APRIL 8, 1925  
S 38012  
SCALE 1"=20 FT.

BY  
BAUER SURVEYS CO.

*J. Bauer*  
REGISTERED PROFESSIONAL ENGINEER & SURVEYOR





THE TEACHOUT REALTY  
 \$ INVESTMENT CO.

2715.04 BY FEB



*Matthew E. Cook*  
 CO. COM.  
*David P. Williams*  
 CO. SURVEYOR  
*James H. ...*

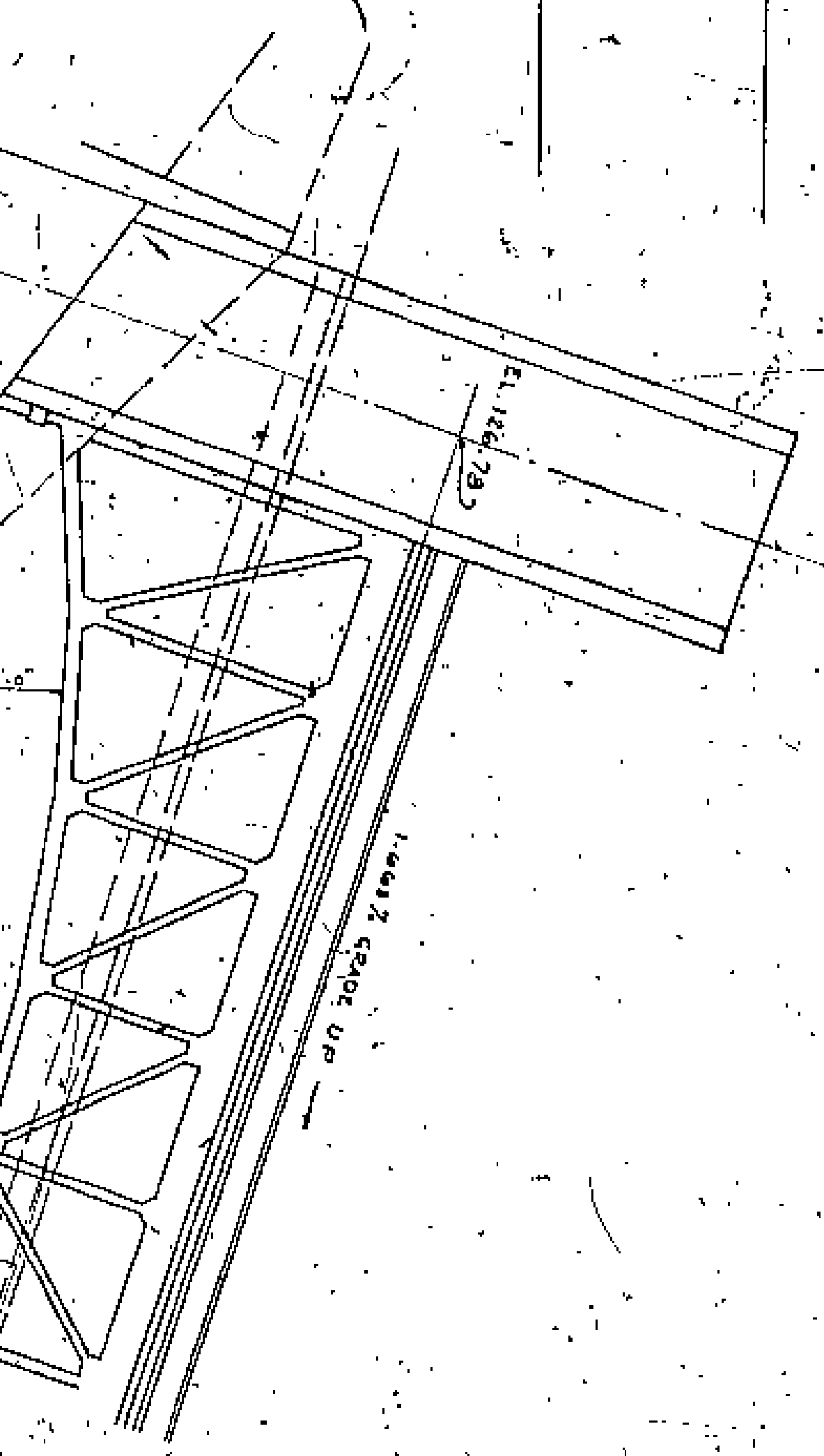
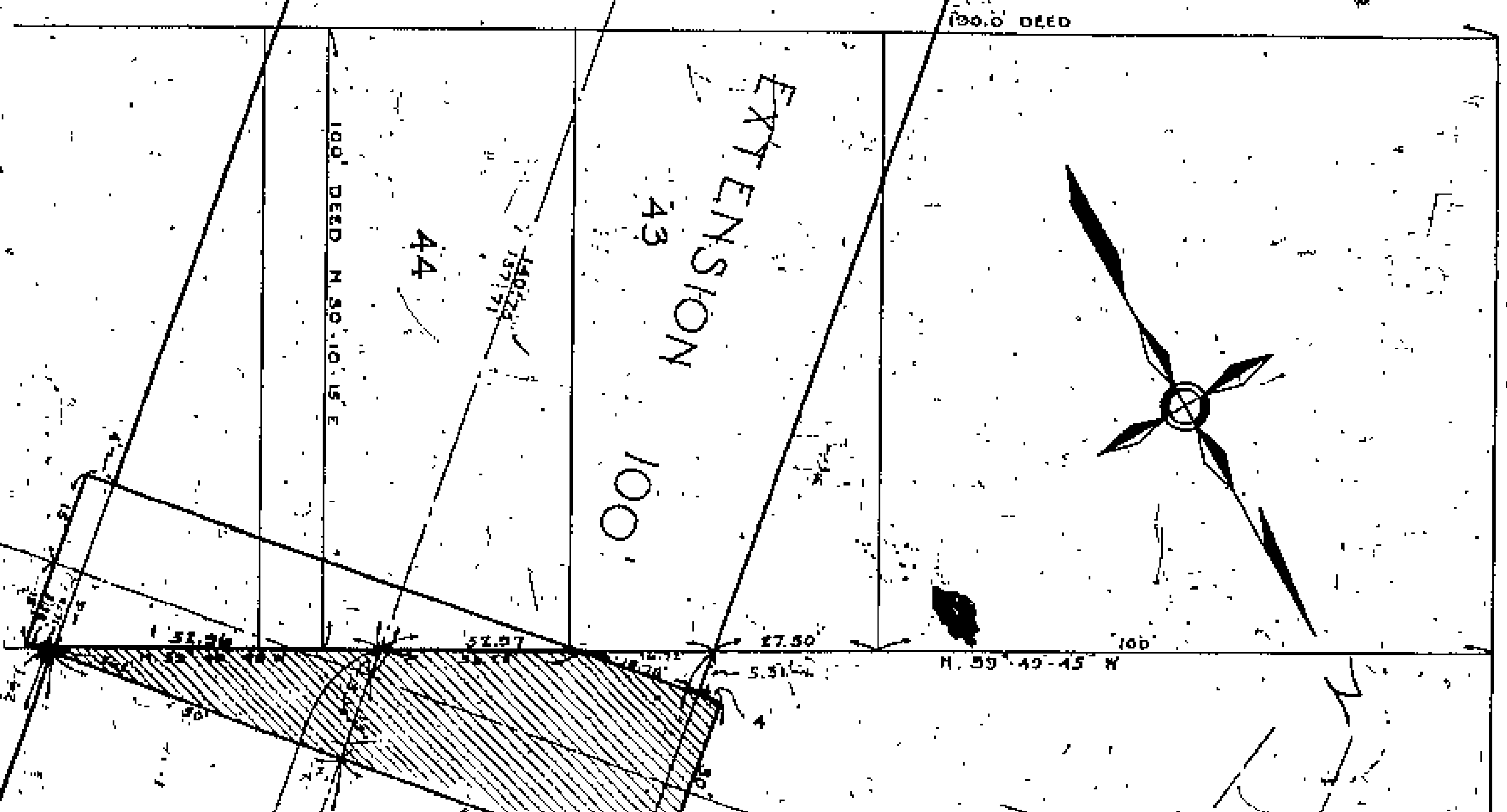
LODAIN CENTRAL BRIDGE  
 THE TEACHOUT REALTY'S INVESTMENT CO'S PROPERTY  
 SCALE 1" = 200'



LODAIN AVE 60

LODAIN AVE

W 17<sup>TH</sup> ST 60



THE TEACHOUT REALTY & INVESTMENT CO.

THE ERIE LAND & IMPROVEMENT CO.

THE ERIE LAND & IMPROVEMENT CO.

THE ERIE R.R. 50

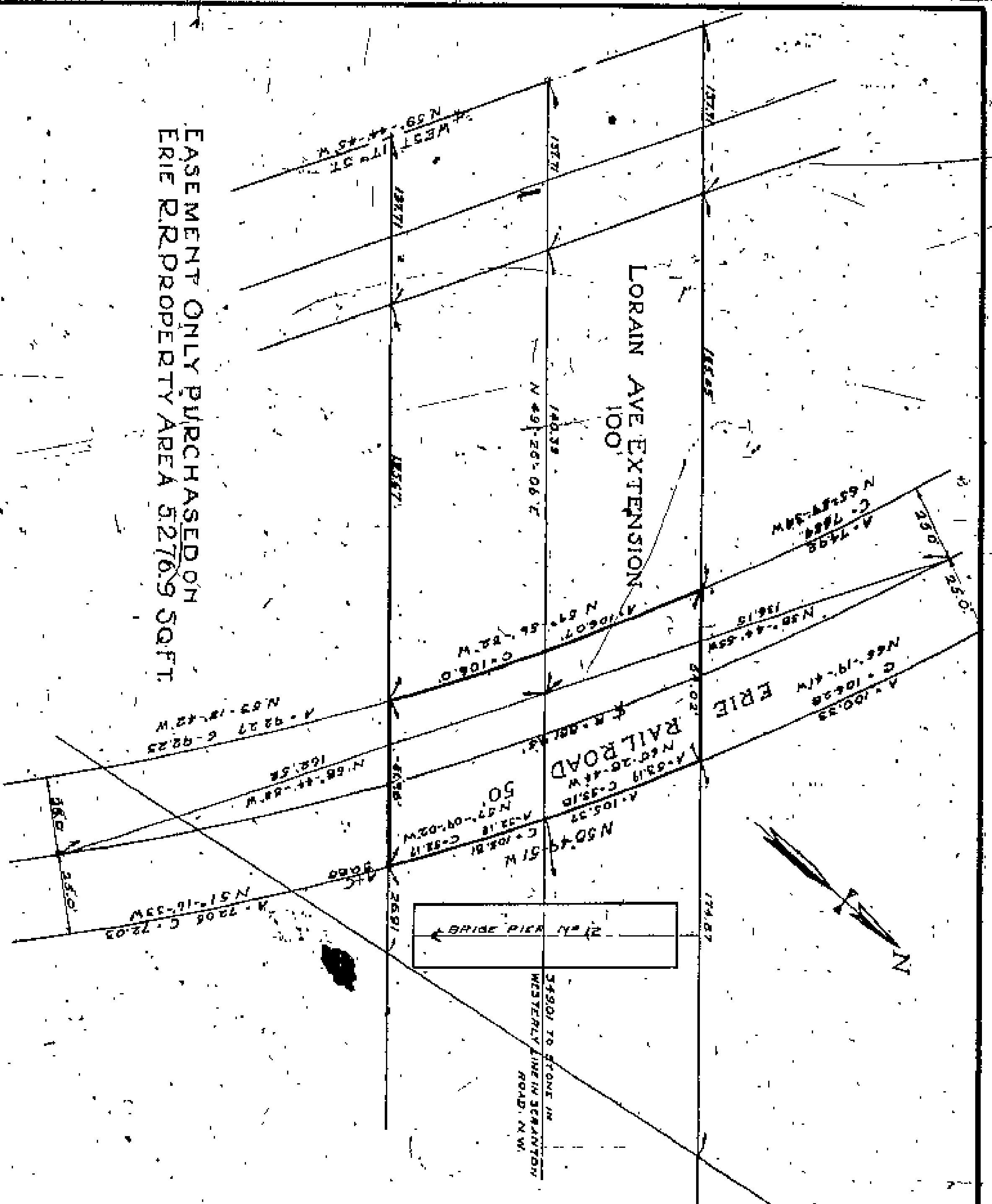
LODAIN CENTRAL BRIDGE  
THE ERIE LAND & IMPROVEMENT CO'S PROPERTY  
SCALE 1" = 20' 0"

*James Stewart*  
CO. COM.  
*John P. ...*  
CO. SURVEYOR

NOTE:  
AREA CROSSHATCHED ACQUIRED BY FEE SIMPLE EASEMENT ONLY PURCHASED ON BALANCE OF RIGHT OF WAY 30, 41, 07, 6

- RESTRICTIONS FOR STRUCTURES ON RIGHT OF WAY
- (1) BUILDING LIMITS: NO PART OF ANY PERMANENT STRUCTURE SHALL BE LESS THAN 15 FEET FROM ALL PARTS OF THE BRIDGE STRUCTURE ABOVE THE GROUND-LINE - EITHER SUB-STRUCTURE OR SUPER-STRUCTURE.
  - (2) TRACKS & PLATFORMS: RAILROAD TRACKS, DRIVENWAYS AND LOADING PLATFORMS SHALL BE CONSTRUCTED CLOSER TO THE SUB-STRUCTURE THAN 15 FEET AS MAY BE AGREED UPON WITH THE BOARD OF COUNTY COMMISSIONERS.
  - (3) CONSTRUCTION: ALL NEW PERMANENT STRUCTURES MUST BE OF FIREPROOF CONSTRUCTION AS DEMAND BY THE CLEVELAND BUILDING CODE. ALL EXISTING STRUCTURES MUST BE MADE FIREPROOF TO THE SATISFACTION OF THE BOARD OF COUNTY COMMISSIONERS.
  - (4) SUBMIT PLANS: PLANS FOR ALL NEW STRUCTURES OR FOR ALTERATIONS TO EXISTING STRUCTURES WITHIN THE LIMITS OF THE BRIDGE RIGHT-OF-WAY SHALL BE SUBMITTED TO AND SUBJECT TO THE APPROVAL OF THE BOARD OF COUNTY COMMISSIONERS.
  - (5) OCCUPANCY: NO PORTION OF THE RIGHT OF WAY - COVERED OR UNCOVERED SHALL BE USED FOR THE STORAGE OF LUMBER, EXPLOSIVES OR COMBUSTIBLES.





EASEMENT ONLY PURCHASED ON  
ERIE RR PROPERTY AREA 5276.9 SQ FT.

**THE ERIE RAILROAD PROPERTY**

Scale 1" = 30 FT.

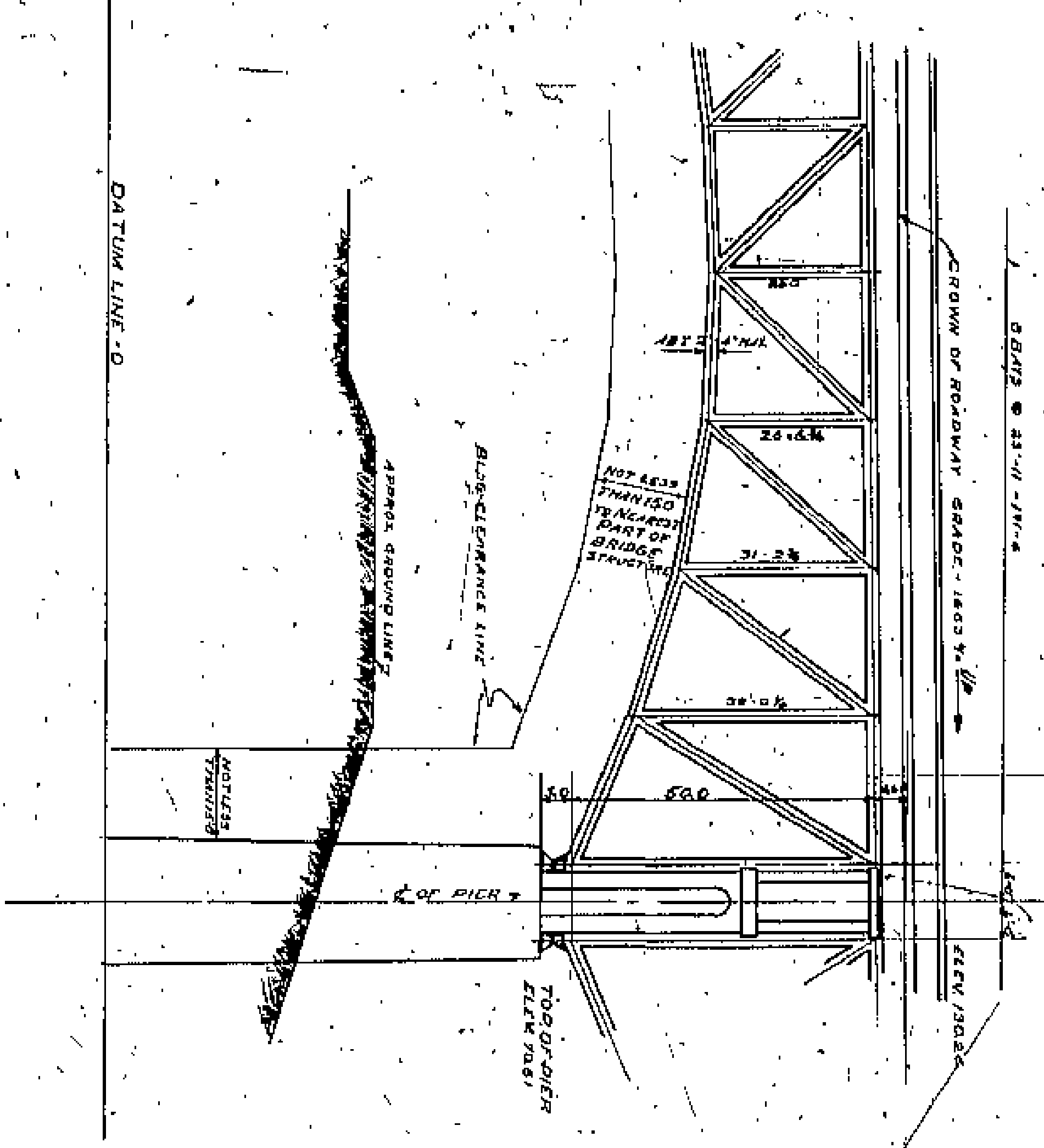
**RESTRICTIONS FOR STRUCTURES ON RIGHT-OF-WAY**

1. **BUILDING LIMITS:**  
NO PART OF ANY PERMANENT STRUCTURE SHALL BE LESS THAN 10 FEET FROM ALL PARTS OF THE BRIDGE STRUCTURE ABOVE THE GROUND LINE - EITHER SUB-STRUCTURE OR SUPER-STRUCTURE.
2. **TRUCK DRIVES AND PLATFORMS:**  
RAILROAD TRACKS, DRIVEWAYS AND LOADING PLATFORMS MAY BE CONSTRUCTED CLOSER TO THE SUBSTRUCTURE THAN 10 FEET, AS MAY BE AGREED UPON WITH THE BOARD OF COUNTY COMMISSIONERS.
3. **CONSTRUCTION:**  
ALL NEW PERMANENT STRUCTURES MUST BE OF FIRE PROOF CONSTRUCTION AS DEFINED BY THE CLEVELAND BUILDING CODE. ALL EXISTING STRUCTURES MUST BE MADE FIREPROOF TO THE SATISFACTION OF THE BOARD OF COUNTY COMMISSIONERS.

4. **SUBMIT PLANS:**  
PLANS FOR ALL NEW STRUCTURES OR FOR ALTERATIONS TO EXISTING STRUCTURES WITHIN THE LIMITS OF THE BRIDGE RIGHT-OF-WAY SHALL BE SUBMITTED TO AND SUBJECT TO THE APPROVAL OF THE BOARD OF COUNTY COMMISSIONERS.
5. **OCCUPANCY:**  
NO PORTION OF THE RIGHT-OF-WAY COVERED OR UNCOVERED SHALL BE USED FOR THE STORAGE OF LUMBER, EXPLOSIVES OR COMBUSTIBLES.

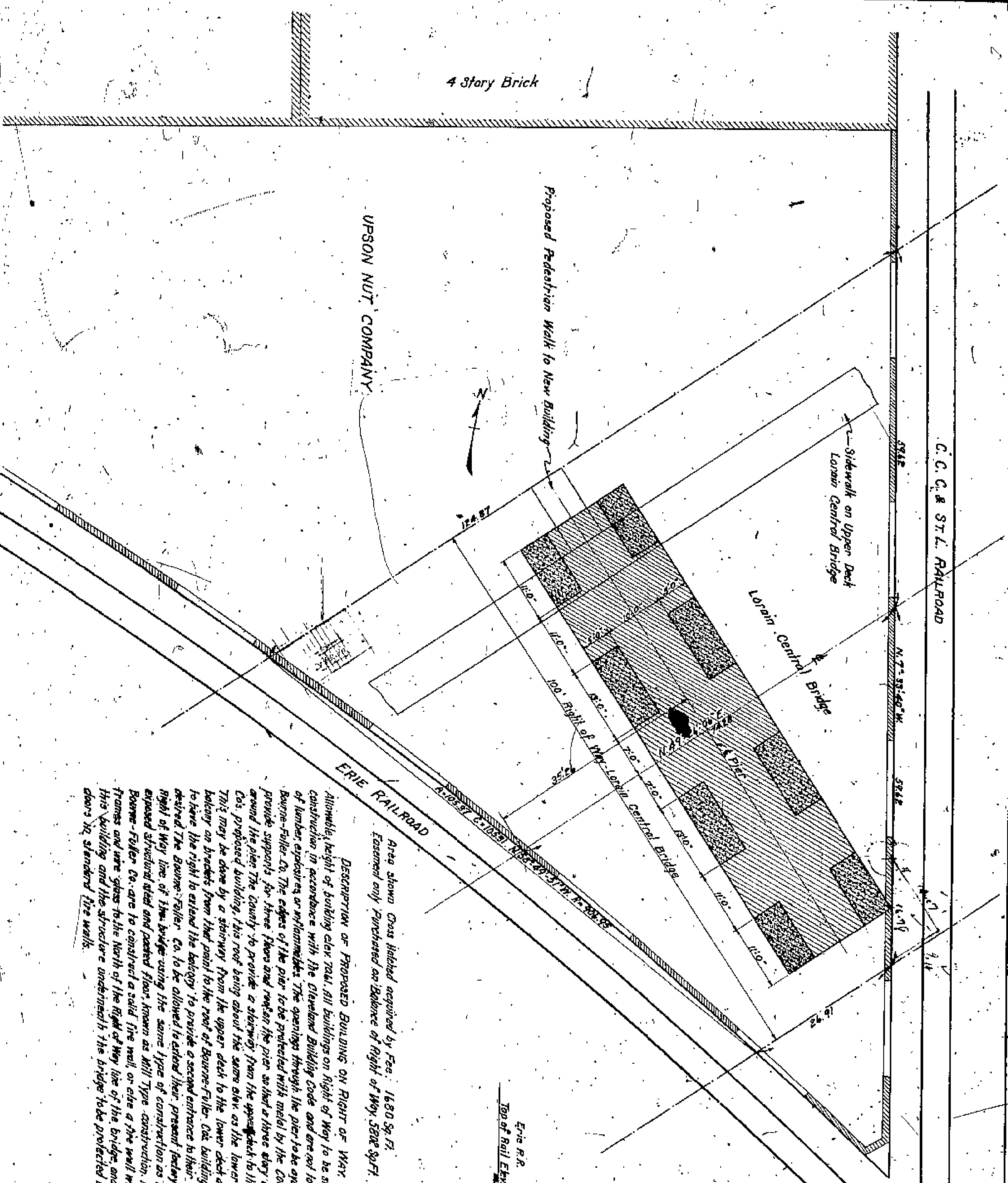
**ELEVATION OF BRIDGE SHOWING  
CLEARANCE LINE FOR PERMANENT STRUCTURES**

Scale 1" = 20 FT.



*John E. Cook*  
CO. COM.  
*John E. Cook*  
CO. SURVEYOR  
LORAIN CENTRAL BRIDGE  
THE ERIE RAILROAD PROPERTY  
SCALE 1" = 30'-0"





4 Story Brick

UPSON NUT COMPANY

Proposed Pedestrian Walk to New Building

Sidewalk on Upper Deck  
Lorain Central Bridge

Lorain Central Bridge

C. C. C. & ST. L. RAILROAD

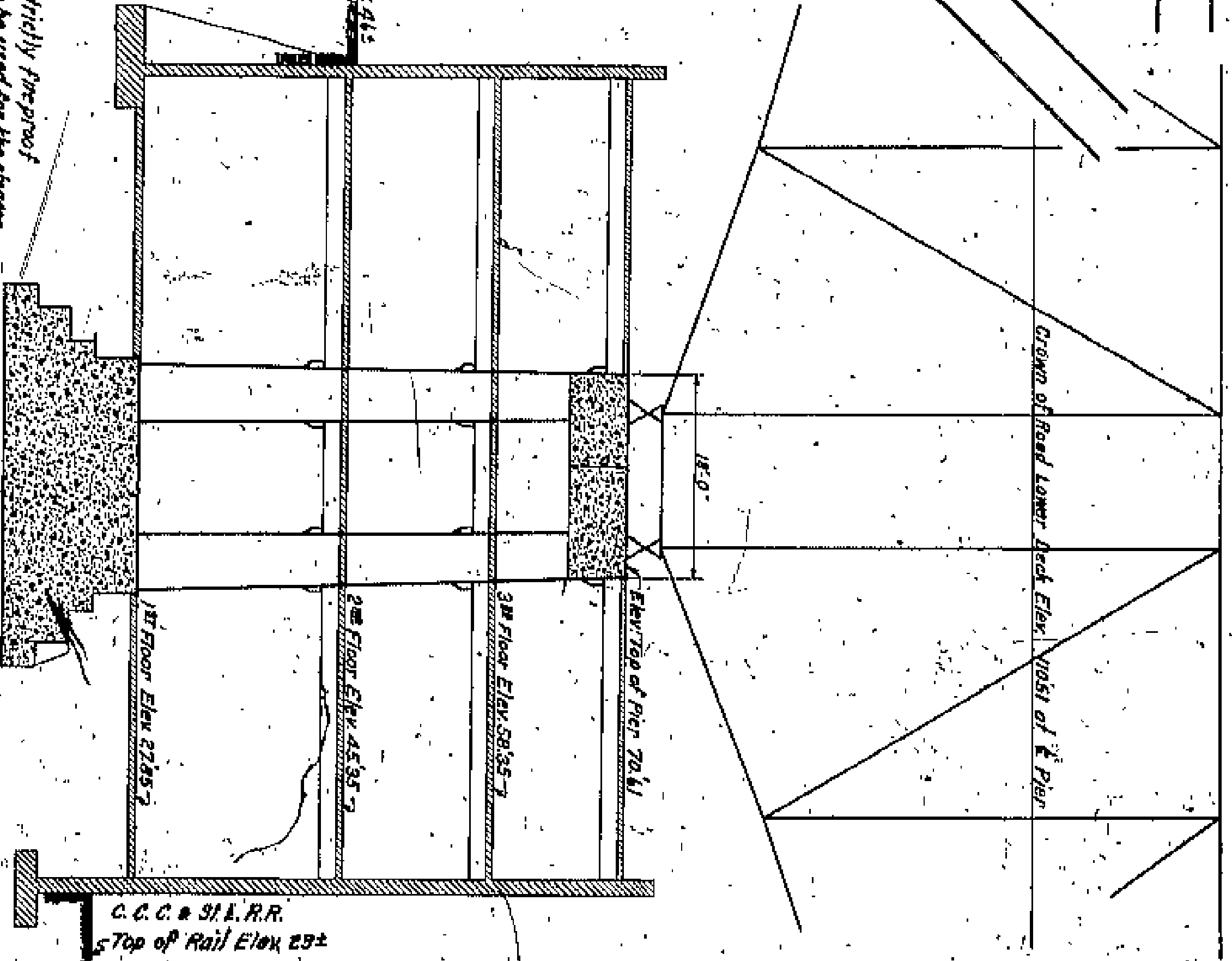
ERIE RAILROAD

Area shown Cross hatched acquired by Fee: 1680 Sq. Ft.  
Essential only Purchased on Balance of Right of Way 5822 Sq. Ft.

DESCRIPTION OF PROPOSED BUILDING ON RIGHT OF WAY

Allowable height of building clear rail. All buildings on right of way to be strictly fire-proof construction in accordance with the Cleveland Building Code and are not to be used for the storage of lumber, explosives or inflammables. The openings through the pier to be available for use of the Bourne-Fuller Co. The edges of the pier to be protected with metal by the County. The County to provide supports for three floors and rest on the pier so that a three story building can be built around the pier. The County to provide a stairway from the upper deck to the lower deck of the bridge. This proposed building, this roof being about the same elev as the lower deck of the bridge. This may be done by a stairway from the roof of Bourne-Fuller Co. building. The Bourne-Fuller Co. to have the right to extend the balcony to provide a second entrance to their building when and if desired. The Bourne-Fuller Co. to be allowed to extend their present factory buildings to the North right of way line of the bridge using the same type of construction as now in use, namely, exposed structural steel and painted floor, known as Mill Type construction. If this is done the Bourne-Fuller Co. are to construct a solid fire wall, or else a fire wall with openings of metal frames and wire glass to the north of the right of way line of the bridge, and all openings of metal. This building and the structure underneath the bridge to be protected by standard fire doors to standard fire walls.

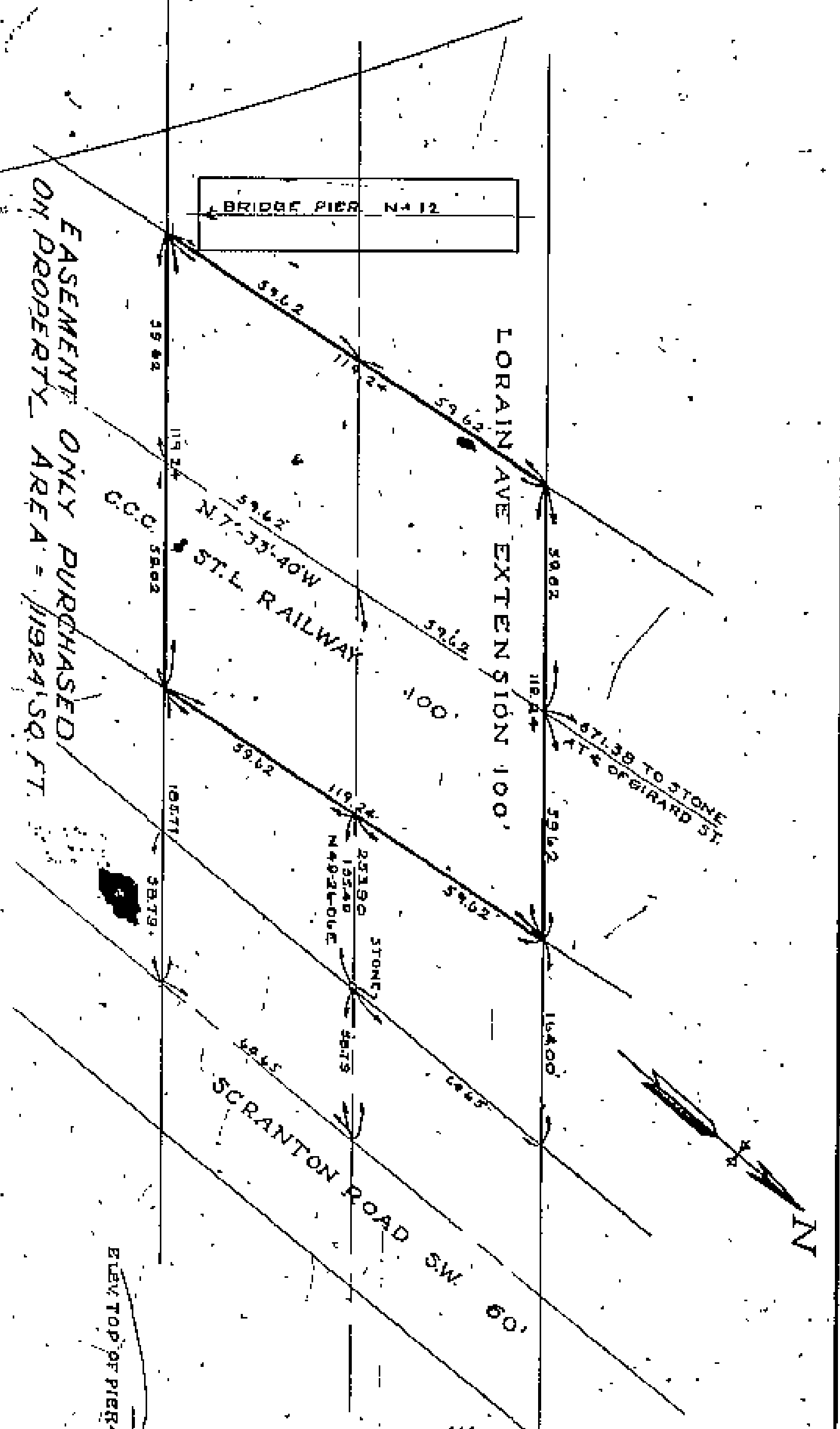
SECTION ON & OF BRIDGE



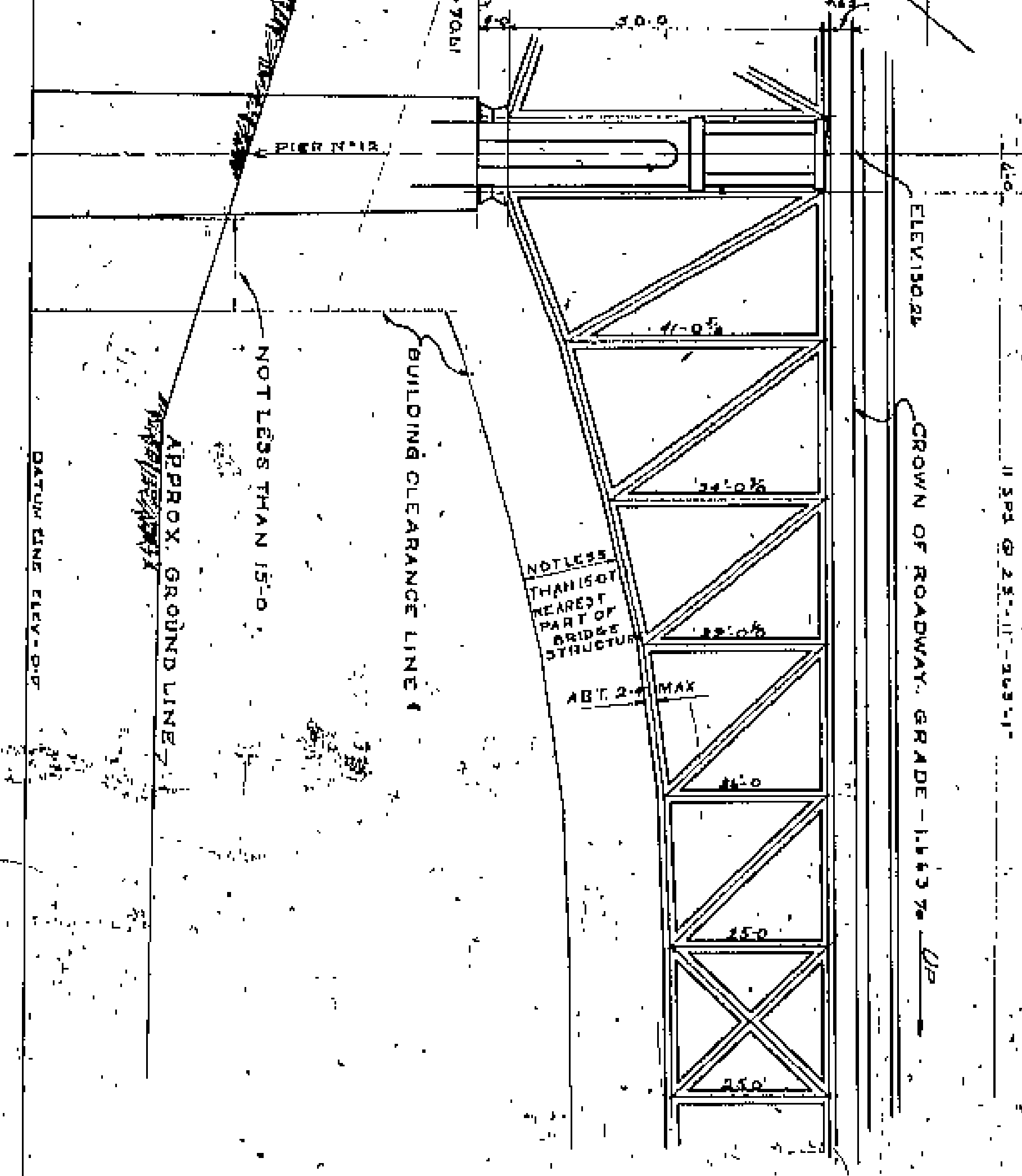
*Walter Cook*  
CQ. COM.  
CO. SURVEYOR

*Walter Cook*  
UPSON NUT COMPANY PROPERTY





CLEVELAND - CINCINNATI - CHICAGO - ST. LOUIS RAILROAD PROPERTY  
 SCALE 1" = 30 FT.

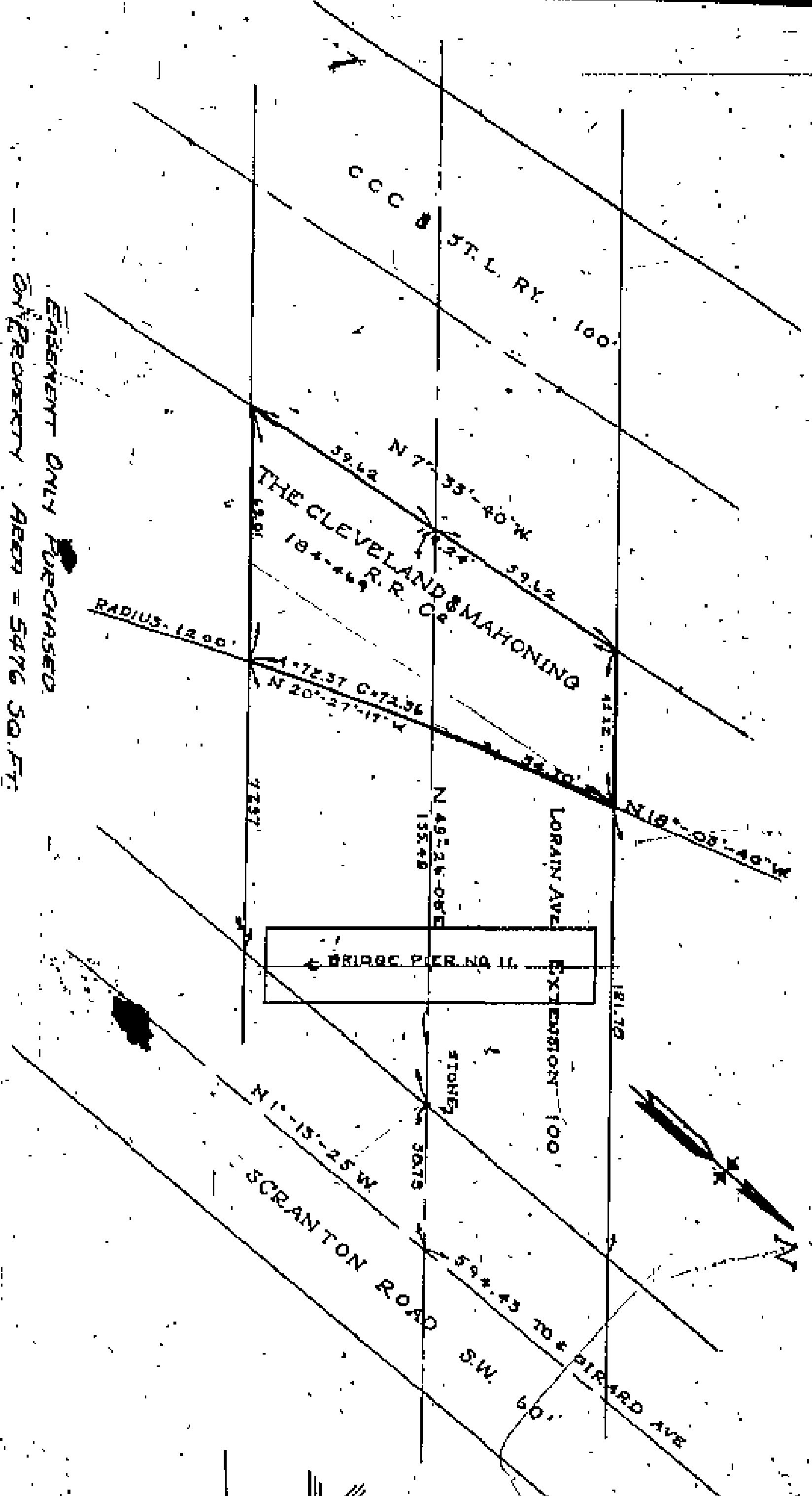


ELEVATION OF BRIDGE SHOWING CLEARANCE LINE FOR PERMANENT STRUCTURES  
 SCALE 1" = 20 FT.

- RESTRICTIONS FOR STRUCTURES ON RIGHT OF WAY**
1. **BUILDING LIMITS:**  
 NO PART OF ANY PERMANENT STRUCTURE SHALL BE LESS THAN 15 FEET FROM ALL PARTS OF BRIDGE STRUCTURE ABOVE GROUND LINE - EITHER SUBSTRUCTURE OR SUPERSTRUCTURE.
  2. **TRACKS, DRIVES, PLATFORMS, RAILROAD TRUCKS, DRIVEWAYS AND LOADING PATTFORMS**  
 MAY BE CONSTRUCTED CLOSER TO SUBSTRUCTURE THAN 15 FEET AS MAY BE AGREED UPON WITH THE BOARD OF COUNTY COMMISSIONERS.
  3. **CONSTRUCTION:**  
 ALL NEW PERMANENT STRUCTURES MUST BE OF FIREPROOF CONSTRUCTION AS DEFINED BY THE CLEVELAND BUILDING CODE. ALL EXISTING STRUCTURES MUST BE MADE FIREPROOF TO THE SATISFACTION OF THE BOARD OF COUNTY COMMISSIONERS.
  4. **SUBMIT PLANS:**  
 PLANS FOR ALL NEW STRUCTURES OR FOR ALTERATIONS TO EXISTING STRUCTURES WITHIN THE LIMITS OF THE BRIDGE RIGHT OF WAY SHALL BE SUBMITTED TO AND SUBJECT TO THE APPROVAL OF THE BOARD OF COUNTY COMMISSIONERS.
  5. **OCCUPANCY:**  
 NO PORTION OF THE RIGHT OF WAY COVERED OR UNCOVERED SHALL BE USED FOR THE STORAGE OF LUMBER, EXPLOSIVES OR COMBUSTIBLES.

*Walter E. Cook*  
 CO. COM.  
*John Redwine*  
 CO. SUPERVISOR

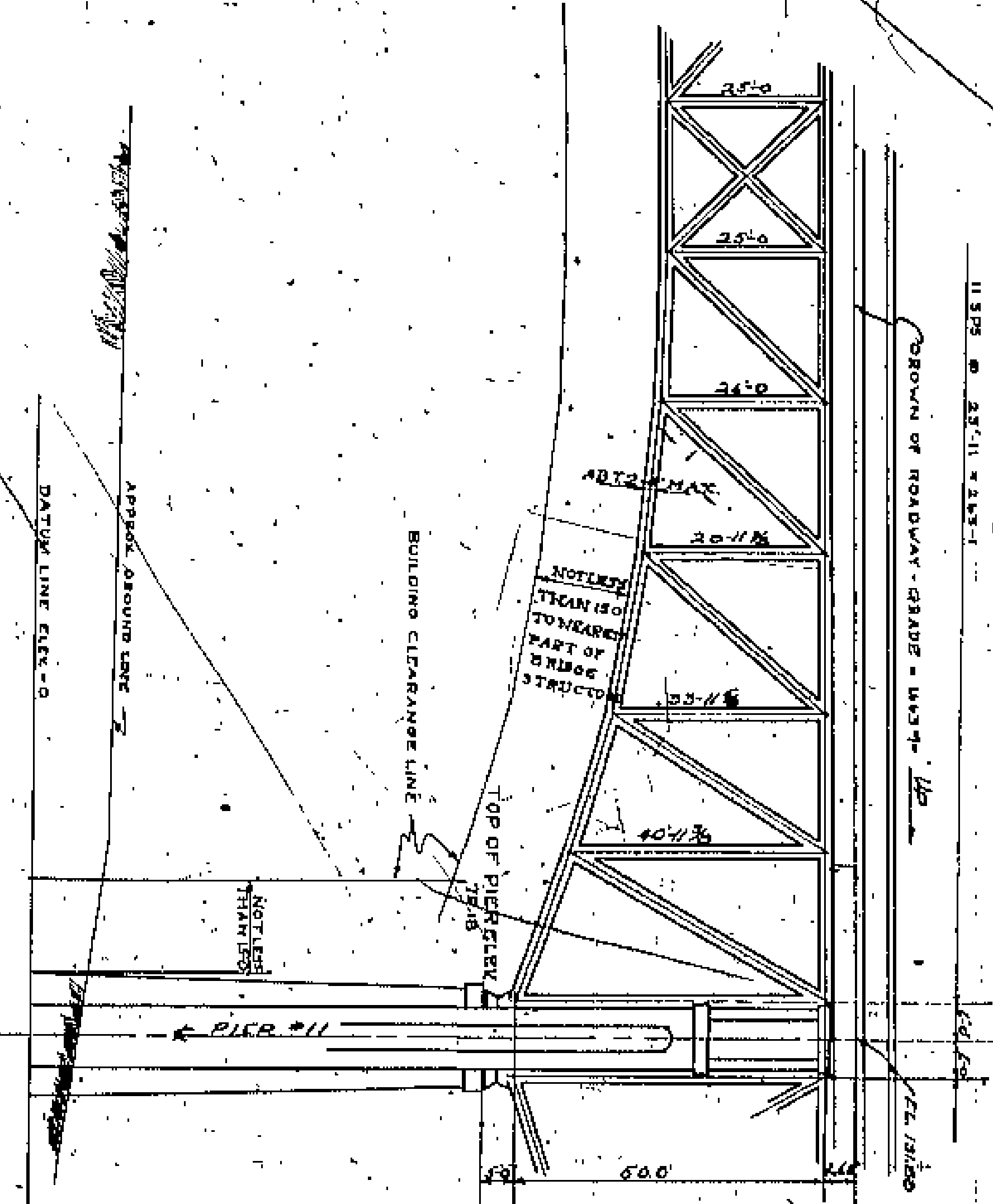
LORAIN CENTRAL BRIDGE  
 CLEVELAND - CINCINNATI - CHICAGO & ST. LOUIS RAILWAY PROPERTY  
 SCALE 1" = 30' OF 1" = 20' = 0



**CLEVELAND & MAHONING R.R. CO. PROPERTY**  
 SCALE 1" = 30 FT.

EASEMENT ONLY PURCHASED  
 ON PROPERTY AREA = 5476 SQ. FT.

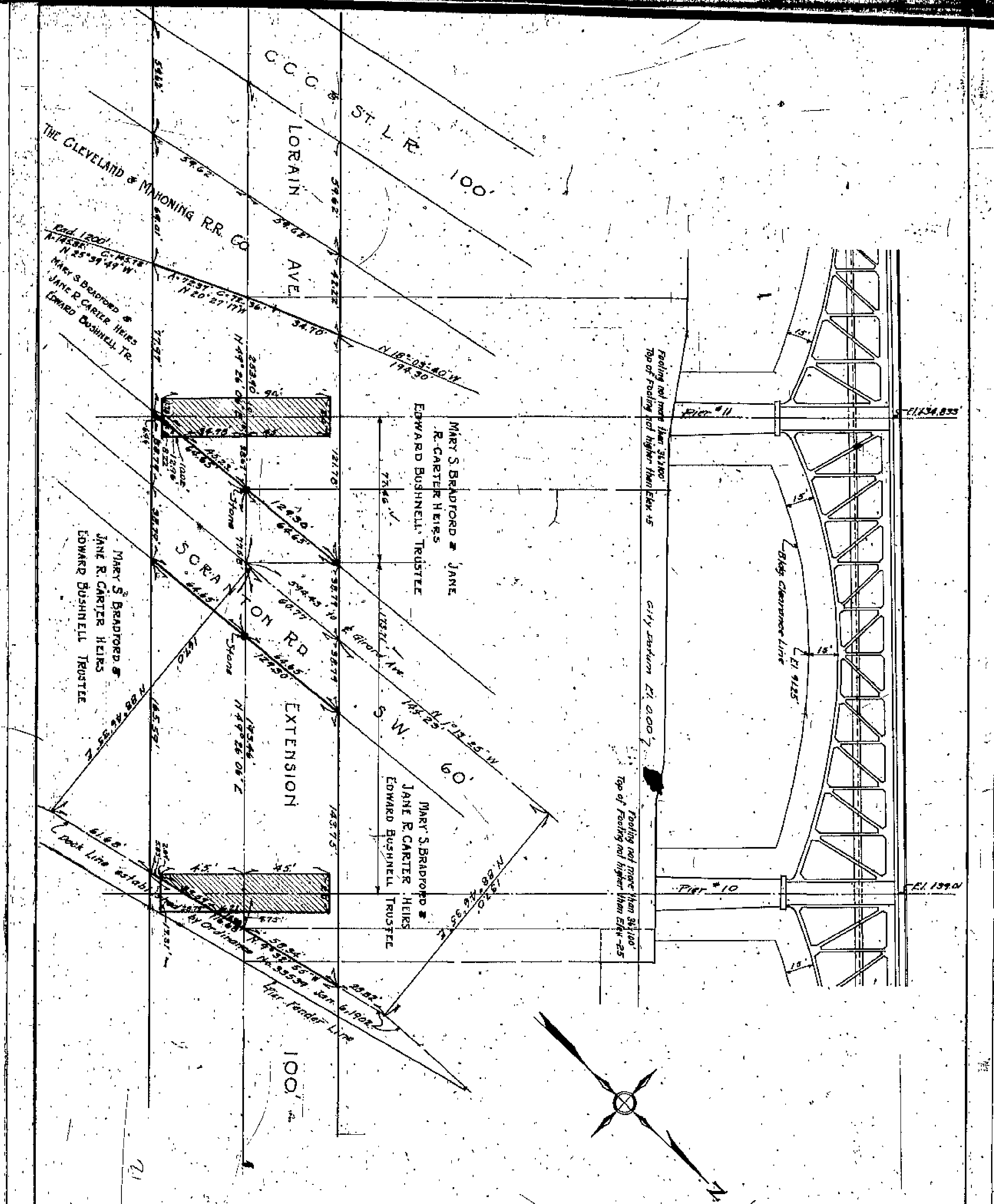
- RESTRICTIONS FOR STRUCTURE ON RIGHT OF WAY**
1. **BUILDING LIMITS:**  
 No part of any permanent structure shall be less than 15 feet from all parts of the bridge structure above the ground line - either sub-structure or super-structure.
  2. **TRACKS, DRIVES AND PLATFORMS:**  
 Railroad tracks, driveways and loading platforms may be constructed closer to the sub-structure than 15 feet, as may be agreed upon with the Board of County Commissioners.
  3. **CONSTRUCTION:**  
 All new permanent structures must be of fireproof construction as defined by the Cleveland Building Code. All existing structures must be made fireproof to the satisfaction of the Board of County Commissioners.
  4. **SUBMIT PLANS:**  
 Plans for all new structures or for alterations to existing structures within the limits of the bridge right of way shall be submitted to and subject to the approval of the Board of County Commissioners.
  5. **OCCUPANCY:**  
 No portion of the right of way covered or uncovered shall be used for the storage of lumber, explosives or combustibles.



**ELEVATION OF BRIDGE SHOWING CLEARANCE LINE FOR PERMANENT STRUCTURES**  
 SCALE 1" = 20 FT.

CO. SUPV.  
*[Signature]*  
 CO. COM.  
*[Signature]*  
 LORAIN-CENTRAL BRIDGE  
 CLEVELAND & MAHONING R.R. PROPERTY  
 SCALE: AS NOTED





RESTRICTIONS FOR STRUCTURES ON RIGHT OF WAY

(1) BOUNDING LIMITS: NO PART OF ANY EXISTING STRUCTURE SHALL BE LESS THAN 15 FEET FROM THE FACE OF THE BRIDGE STRUCTURE ABOVE THE GROUND AND 10 FEET FOR STRUCTURE ON SLOPE STRUCTURE

(2) TRACKS, DECKS & PAVEMENT: RAILROAD TRACKS, DECKWAYS AND LOADING PLATFORMS MAY BE CONSTRUCTED CLOSER TO THE SUB-STRUCTURE THAN SETBACKS AS MAY BE AGREED UPON WITH THE BOARD OF COUNTY COMMISSIONERS

(3) CONSTRUCTION: ALL NEW EXISTING STRUCTURES MUST BE OF FIREPROOF CONSTRUCTION AS DEFINED BY THE CITY AND BIDDING CODE. EXISTING STRUCTURES MUST BE MADE FIREPROOF TO THE SATISFACTION OF THE BOARD OF COUNTY COMMISSIONERS

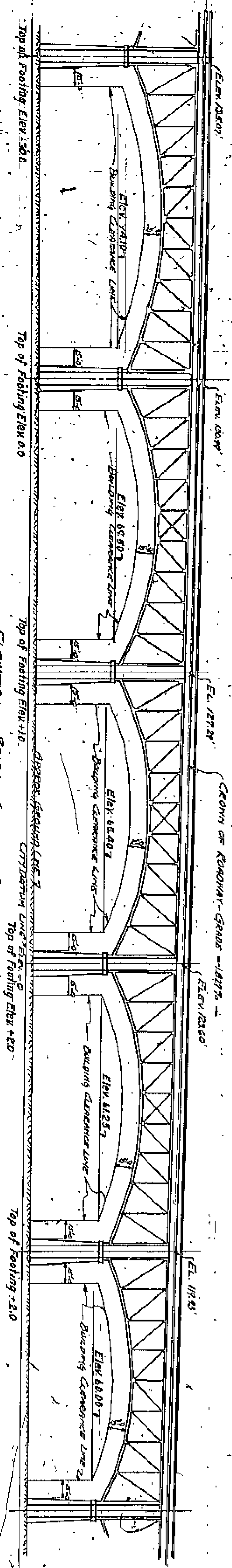
(4) SIGNAGE PLANS: PLANS FOR ALL NEW STRUCTURES OR SIGN ALTERATIONS EXISTING STRUCTURES WITHIN THE LIMITS OF THE BRIDGE RIGHT-OF-WAY SHALL BE SUBMITTED TO AND SUBJECT TO THE APPROVAL OF THE BOARD OF COUNTY COMMISSIONERS

(5) OCCUPANCY: NO PORTION OF THE RIGHT-OF-WAY COVERED BY THIS ORDER SHALL BE USED FOR THE STORAGE OF LIQUID, EXPLOSIVES OR COMBUSTIBLES

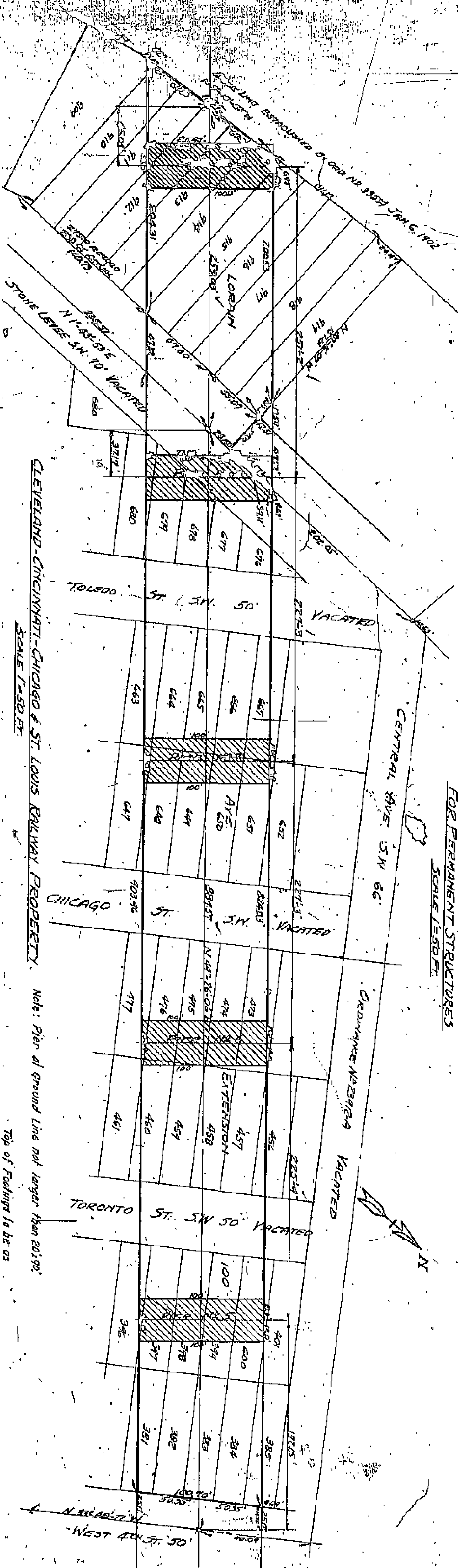
NOTE

AREA CROSSHATCHED ACQUIRED BY FEL. 3309.64# EASEMENT ONLY PURCHASED ON BALANCE OF RIGHT-OF-WAY 21,994.872 #

Plate Book  
 CO. COM.  
 CO. SURVEYOR  
 LORAIN CENTRAL BRIDGE  
 MARY S. BRADFORD & JANE R. CARTER HEIRS  
 EDWARD BUSHNELL TRUSTEE  
 PROPERTY  
 SCALE 1"=50.0'  
 EXHIBIT I-J



ELEVATION OF BRIDGE SHOWING CLEARANCE LINES FOR PERMANENT STRUCTURES  
SCALE 1/50 FT.



CLEVELAND-CINCINNATI-CHICAGO & ST. LOUIS RAILWAY PROPERTY.  
SCALE 1/50 FT.

Note: Pier of ground line not larger than 201.90' indicated or of lower elevation. Present ground line Elev. 72 giving minimum depth over footings 0.55'.

RESTRICTIONS FOR STRUCTURES ON RIGHT OF WAY

1. LIMITS OF ANY PERMANENT STRUCTURE SHALL BE AS SHOWN BY THE PLAN FROM ALL PARTS OF BRIDGE STRUCTURE AND GROUND LINE EITHER STRUCTURE OR SUPERSTRUCTURE.
2. SUPER-PLATEWAYS, GUTTERS, DRAINWAYS AND LOADING PLATFORMS SHALL BE SUBMITTED TO AND SUBJECT TO THE APPROVAL OF THE BOARD OF COUNTY COMMISSIONERS.
3. CONSTRUCTION OF STRUCTURES MUST BE OF SUCH MATERIALS AND DESIGN AS TO BE SATISFACTORY TO THE BOARD OF COUNTY COMMISSIONERS.
4. CONSTRUCTION OF STRUCTURES MUST BE OF SUCH MATERIALS AND DESIGN AS TO BE SATISFACTORY TO THE BOARD OF COUNTY COMMISSIONERS.

RESTRICTIONS FOR STRUCTURES ON RIGHT OF WAY

1. SUBMIT PLANS: PLANS FOR ALL NEW STRUCTURES OR FOR ALTERATIONS TO EXISTING STRUCTURES WITHIN THE LIMITS OF THE BRIDGE RIGHT OF WAY SHALL BE SUBMITTED TO AND SUBJECT TO THE APPROVAL OF THE BOARD OF COUNTY COMMISSIONERS.
2. OCCUPANCY: NO PORTION OF THE RIGHT OF WAY COVERED OR UNCOVERED SHALL BE USED FOR THE STORAGE OF LUMBER, EXPLOSIVES OR COMBUSTIBLES.

*John E. Stock*  
CO. COM.  
*John E. Stock*  
CO. SURVEYOR  
LORAIN CENTRAL BRIDGE  
CLEVELAND-CINCINNATI-CHICAGO & ST. LOUIS RAILWAY PROPERTY  
SCALE 1/50 FT.



(VACATED)

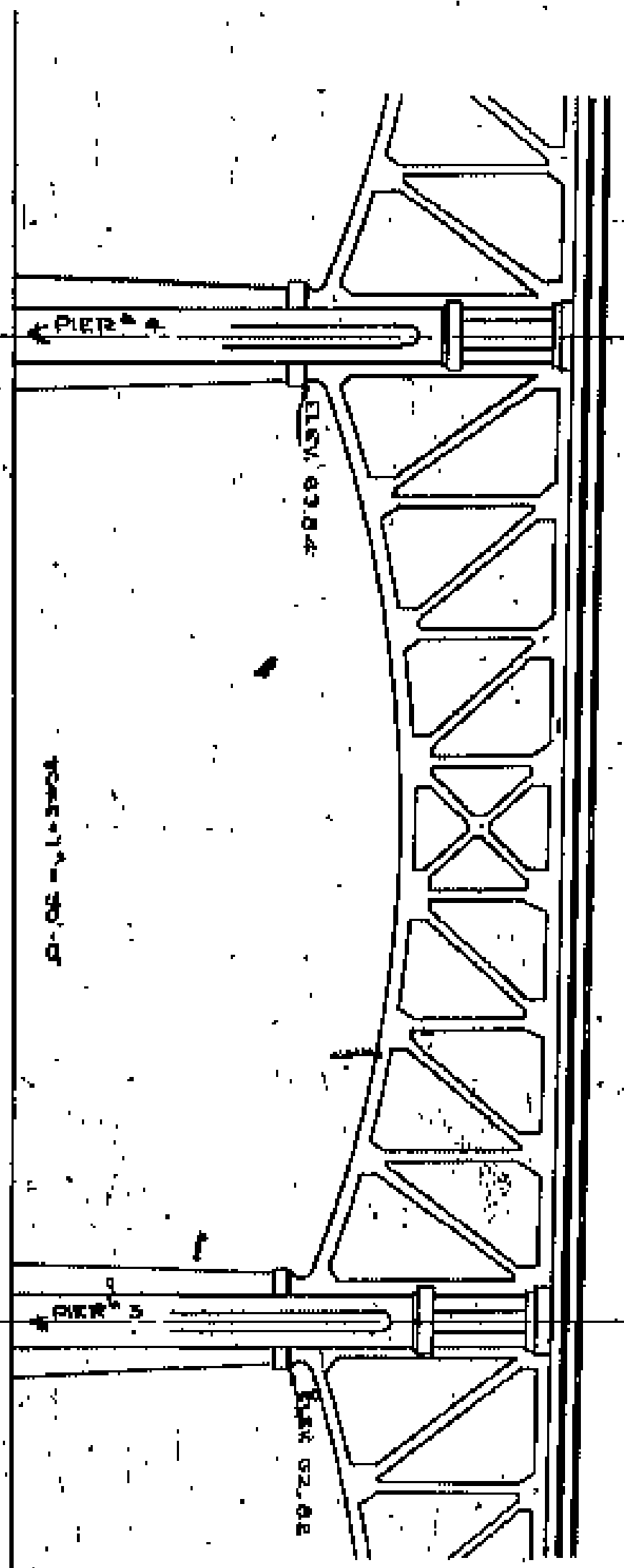
LOBAIN

WEST 4<sup>TH</sup> ST. 50'

N. 55°-48'-22" W.

CENTRAL AVE S.W. 66'

AVE. EXTENSION



207

206

205

204

203

202

191

190

189

188

187

186

100'

200'-18" N. 66°-10'-02" E.

200' RECORD

201'-56"

N. 49°-21'-06" E.

202'-00"

150' REC. 150.02' ACT.



150.02' ACT. 150.00' REC.

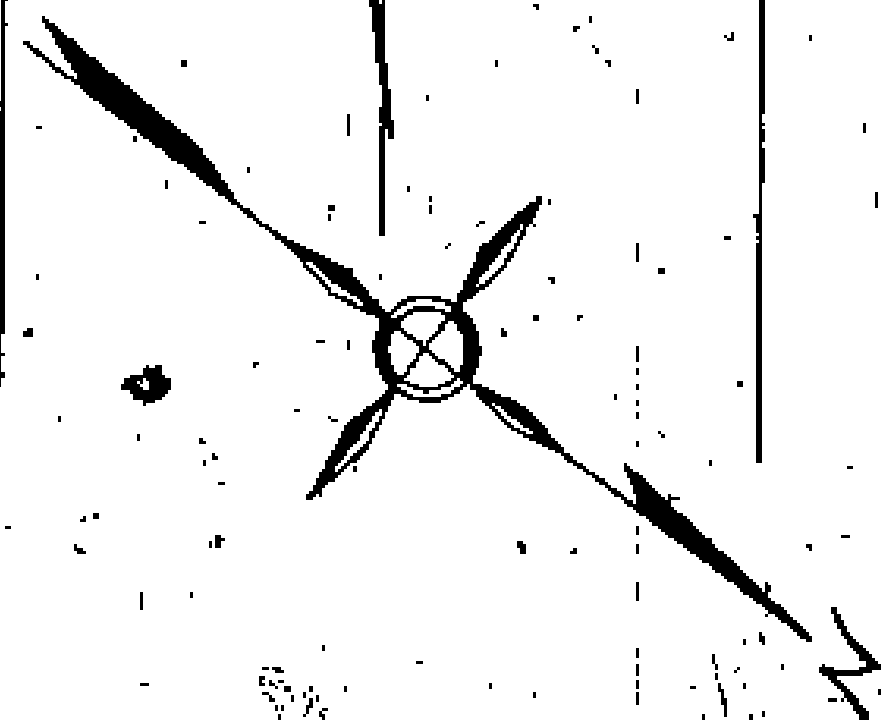
80.86'

50.51'

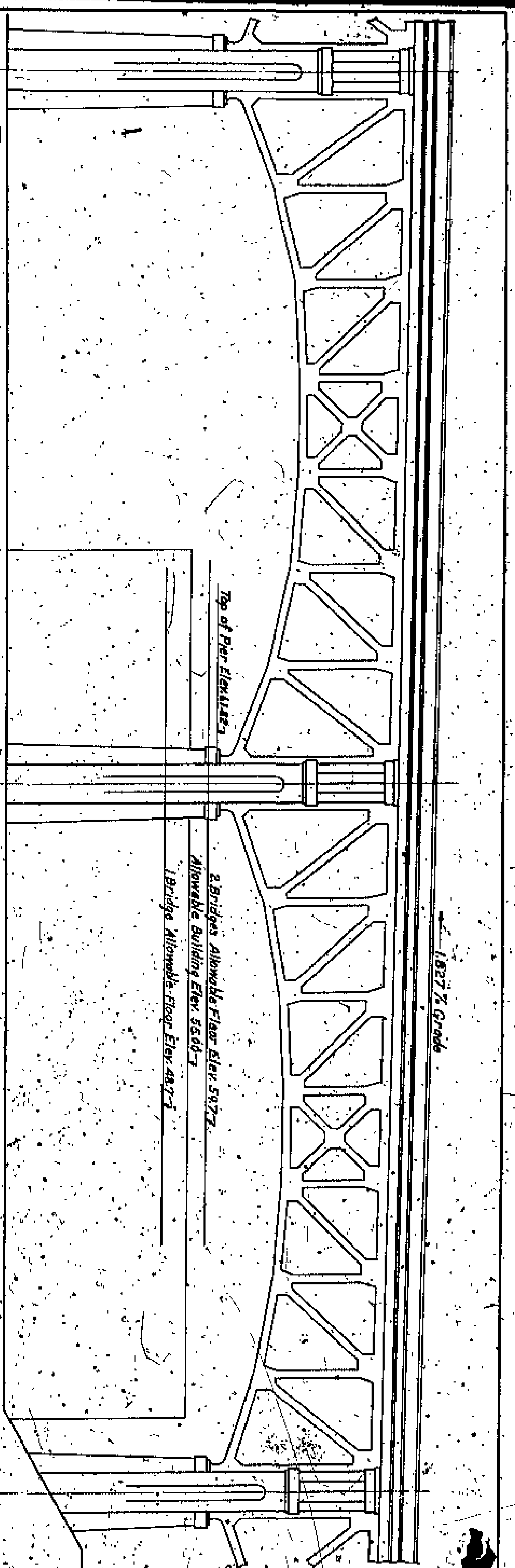
WEST 3<sup>RD</sup> ST. 70'

N. 35°-48'-15" W.

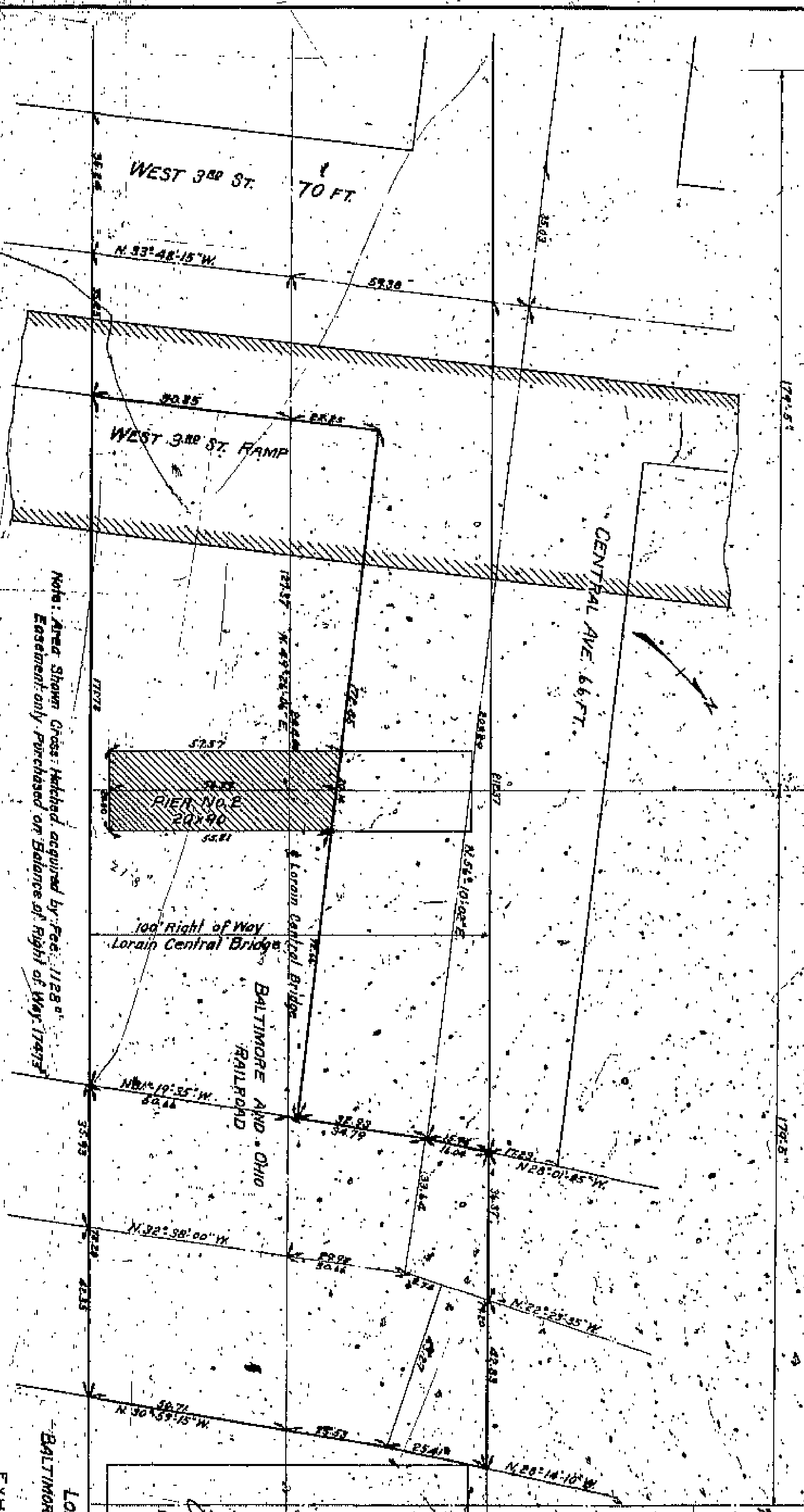
59.88'



*John G. Cowan*  
 CO. SURVEYOR  
 LOBAIN CENTRAL BRIDGE  
 ALICE G. COWAN PROPERTY  
 SCALE 1"=40'-0"  
 CO. CORN.



1827 1/2 Grabb



Note: Area Shown Cross Hatched acquired by Fee. 1128.  
Easement only. Purchased on Balance of Right of Way 17473

Plateman FOR STRUCTURE ON  
1. Construction  
All new proposed structure  
proposed construction in  
Building Code. No drawing, structure, or  
made pursuant to the jurisdiction of the  
Board of County Commissioners.  
2. Submittal Plans  
Plan for all new structures or  
to existing structures within the limits of the  
bridge right of way, shall be submitted to  
and subject to the approval of the  
County Commissioners.  
3. Drawings  
No portion of the right of way, easement  
or interest, shall be used for the laying of  
lines, pipelines or conduits.

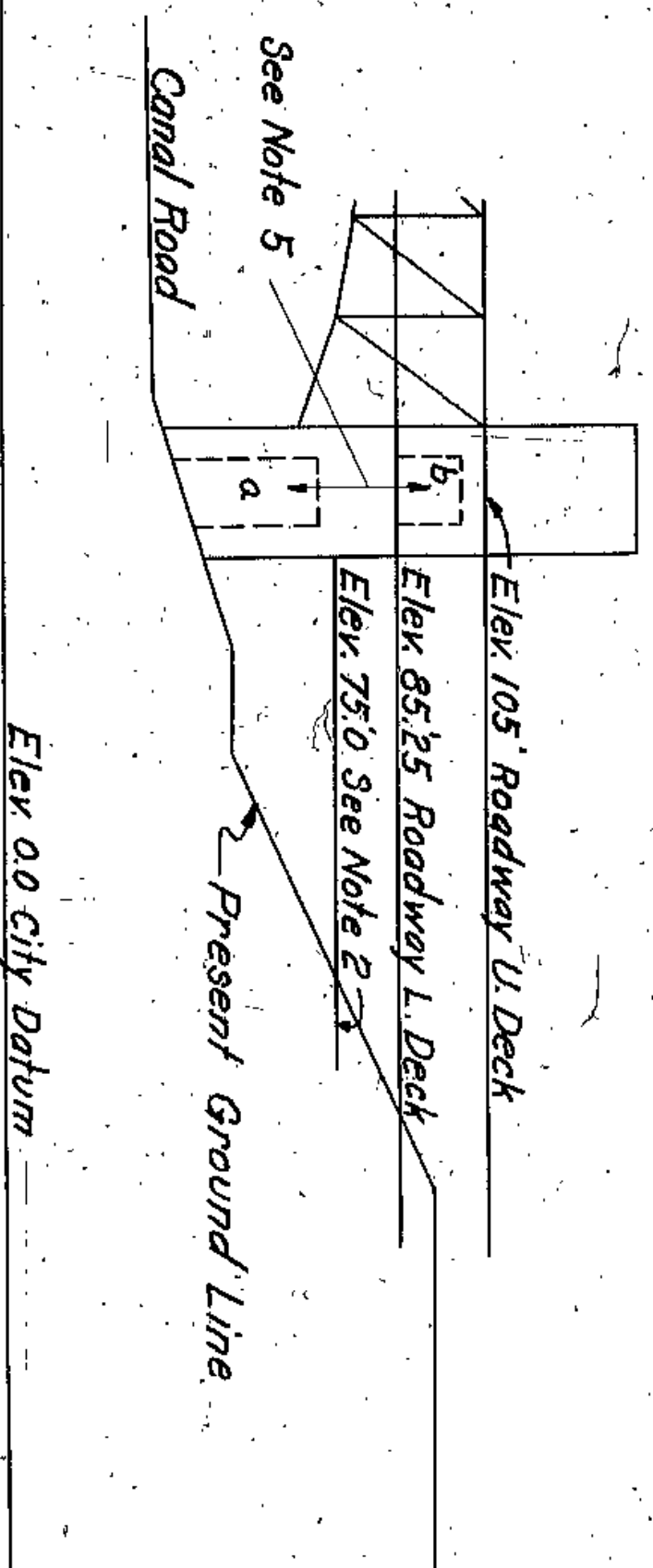
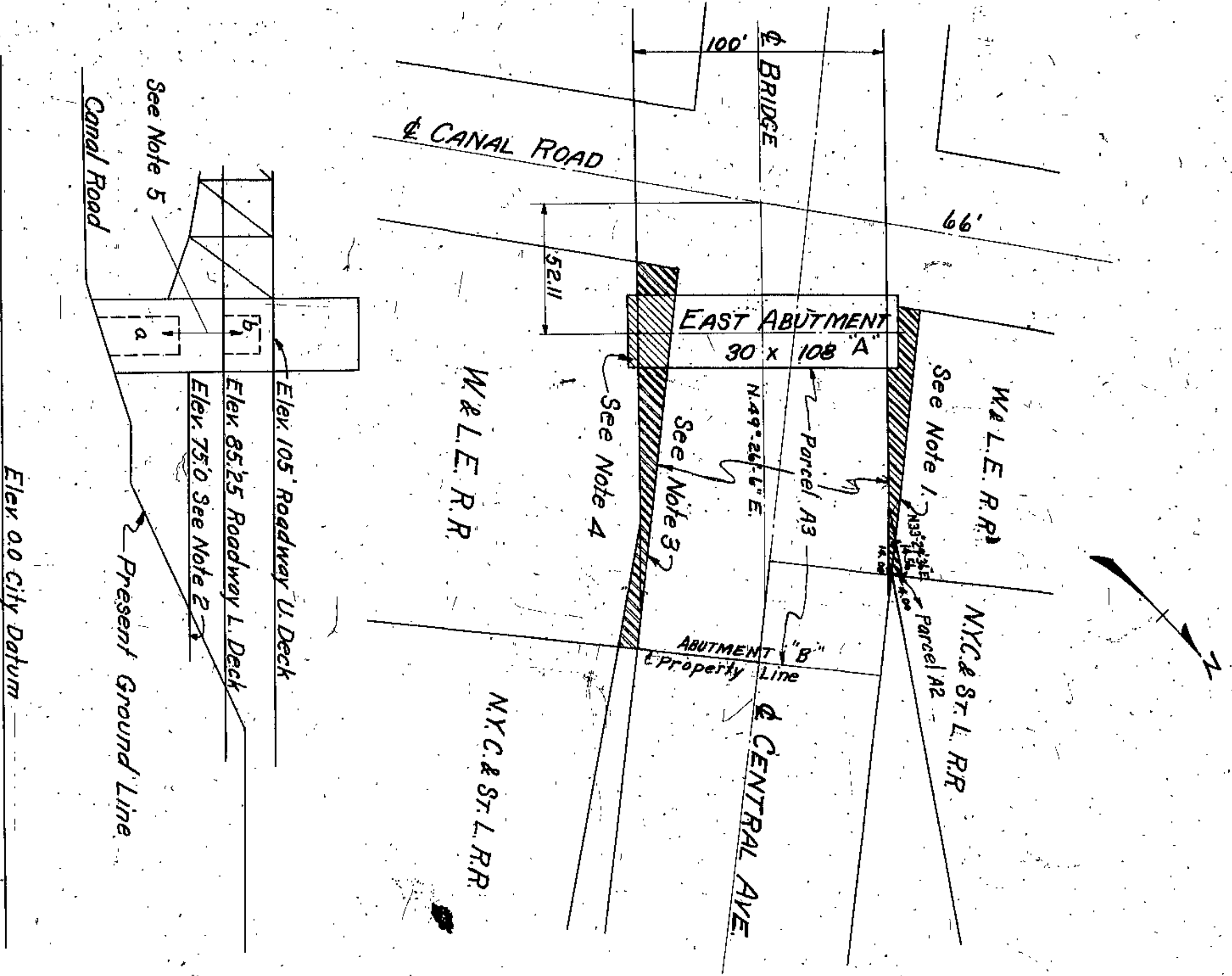
PIER No. 1  
50x90

*[Handwritten signatures and notes]*

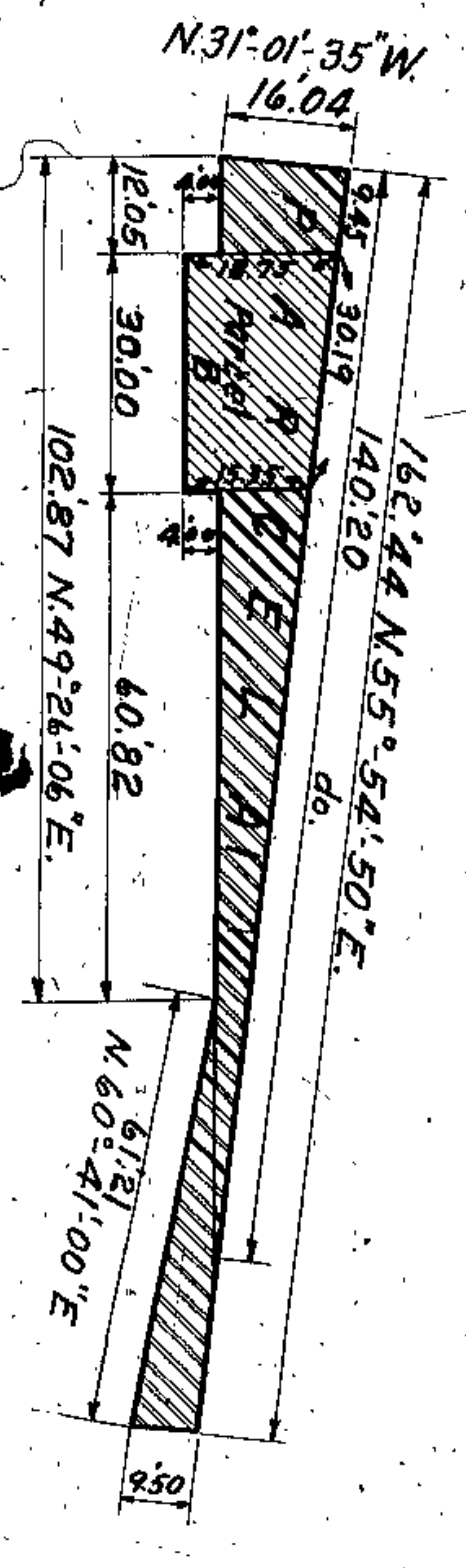
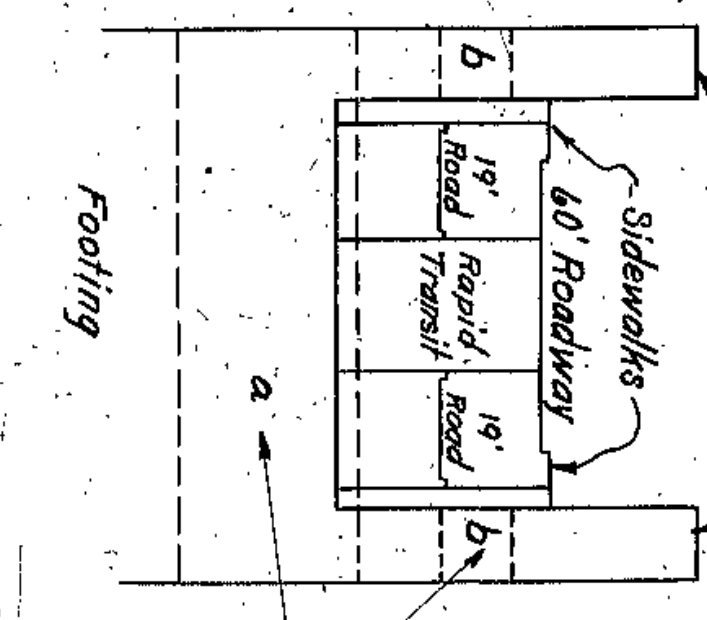
LORAIN CENTRAL BRIDGE  
BALTIMORE AND OHIO RAILROAD

EXHIBIT





Scale 1"=50'0"

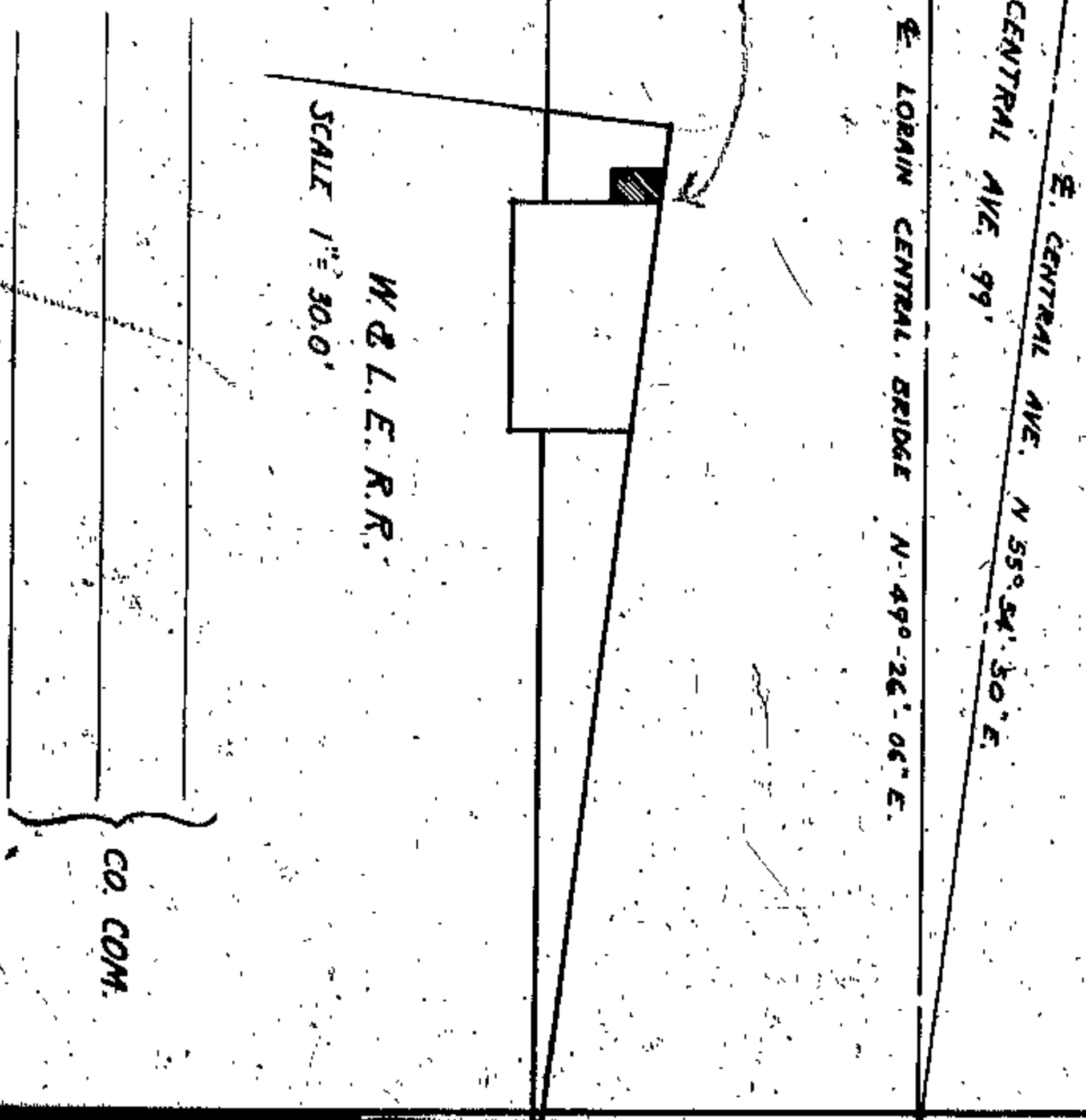
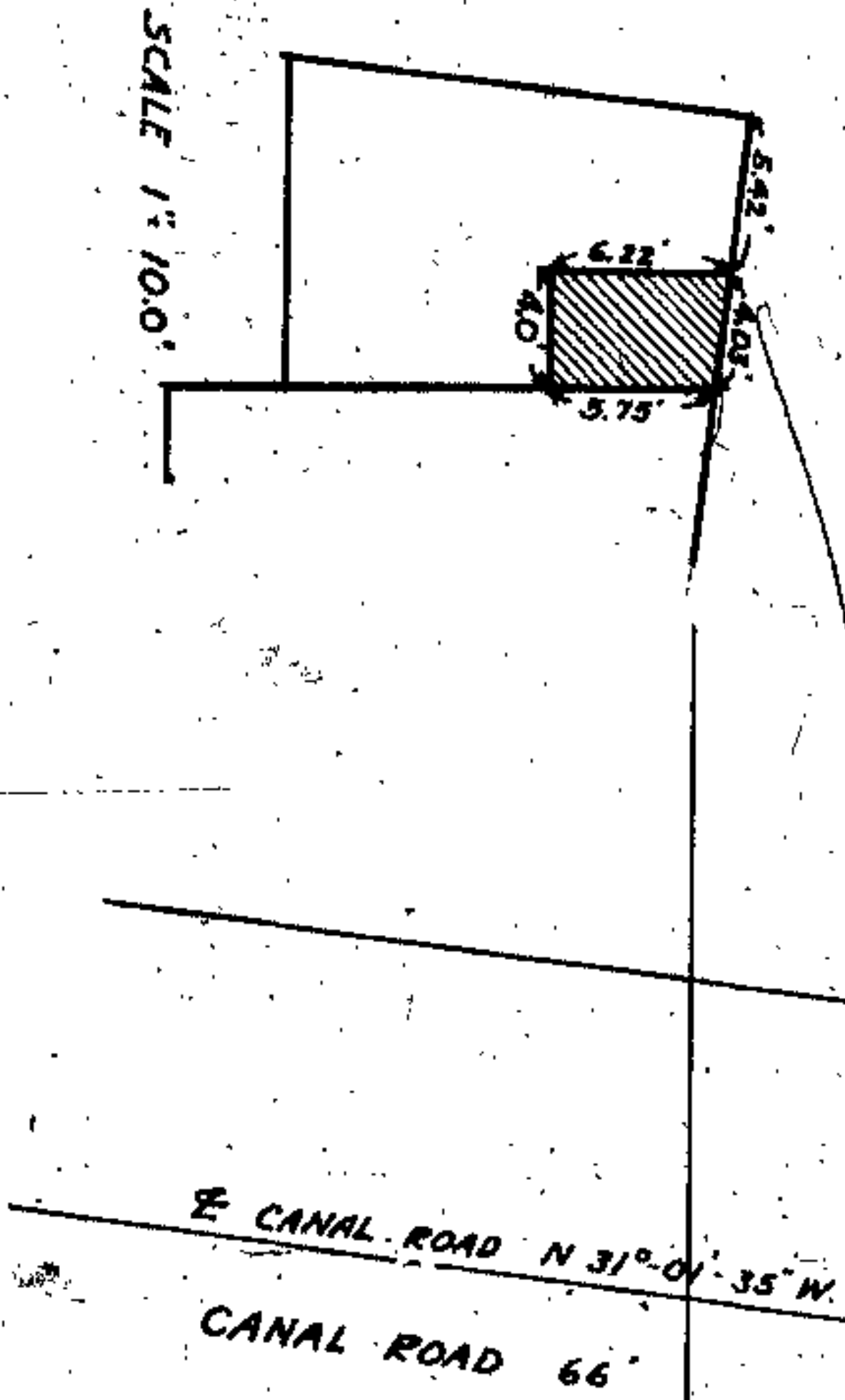


Scale 1"=30'0"

- Note 1. Area shown [hatched] to be vacated by City and so become available for W&L.E.R.R. use.
- Note 2. Guaranteed clearance at Elev. 75.0.
- Note 3. Area shown [hatched] County to acquire easement only. A=911.7°
- Note 4. Area shown [hatched] County to acquire. Fee A=516.5°
- Note 5. Dotted lines show openings not less than 14' in height and 16' in width to be used by W&L.E.R.R.
- (a) for vehicular drive from Canal Road to track level.
- (b) for exits to and from one way roadways of lower deck.

All openings to be walled up with false walls until such time as needed by W&L.E.R.R.  
 Note 6. W&L.E.R.R. to have right if and when they construct a passenger depot south of bridge, to construct elevators and stairs to upper deck of bridge.

*Charles S. Cook*  
 CO. COM.  
*John C. Sullivan*  
 CO. SURVEYOR  
 LORAIN CENTRAL BRIDGE  
 WHEELING AND LAKE ERIE RAILROAD PROPERTY



CO. COM.

CO. SURVEYOR.

CO. AUDITOR.

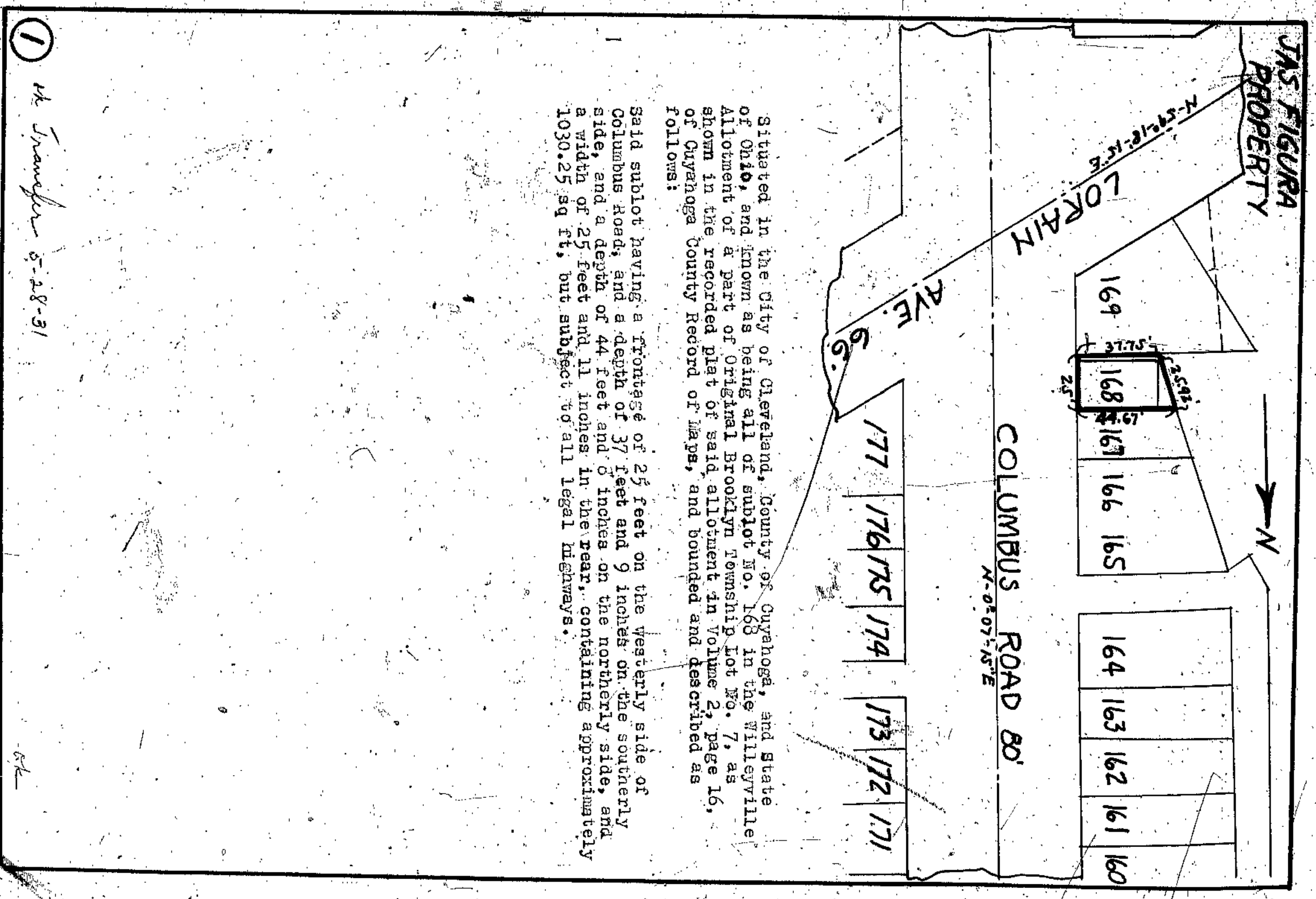
LORAIN CENTRAL BRIDGE  
 WHEELING AND LAKE ERIE RAILROAD PROPERTY

EXHIBIT

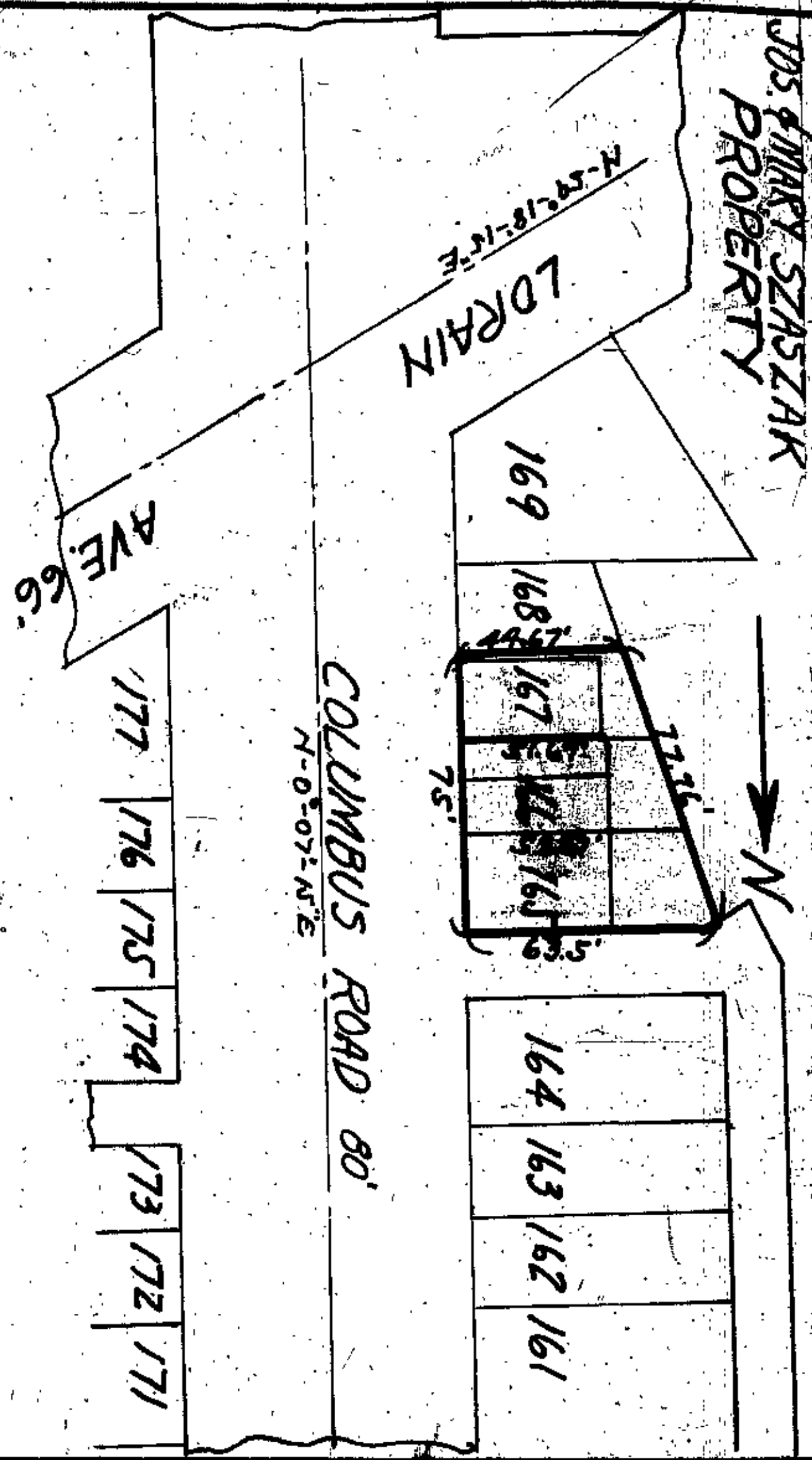


PROPERTIES REQUIRED FOR WIDENING LORRAIN AVE. AND  
THOSE AFFECTED BY CHANGE OF GRADE AT COLUMBUS AVE.  
BRIDGE

SHEET	NAME
1.	JAMES FIGURA
2.	JOS & MARY SZASZAK
3.	EMILY B HUMPHREY
4.	JOS & ANNA SCHREFFER
5.	LIZZIE BRUNGGARTNER
6.	JOHN STIBRAN
7.	ANNA WALSH
8.	HOME SALES ORGANIZATION.
9.	<del>WALTER HENNINGSON</del> SEE NO. 3A
10.	CITY OF CLEVELAND
11.	WM. BRULER CO.
12.	R. N. & J. M. COUREY
13.	JOHN & K. VERTALY
14.	TRENE A. BRULER
15.	JOHN & MARY KRUPKA
16.	JOHN & SUSIE HOLCHIN
17.	COSPAR & ELIZ. KRUTCIK
18.	JOHN REBELT
19.	ALEXANDRA MOLECC HARRHAT
20.	JOHN & J. POROSKI
21.	THE PONTIAC IMPROVEMENT CO.
22.	NICK BESTRMIN
23.	SUSAN B. WOODHILL
24.	CORNELIA J. WOODHILL
25.	MARY FERGUSON
26.	THE ACUMEN LAND CO
27.	LOUIS & ANNA RHALDESKI
28.	HELEN PEK
29.	JOHN BUDINSKY ET. AL.
30.	SOPHIE & SERGEI BULAWKA
31.	M. P. PLATTEN CO
32.	JOHN & CADY SZILVARI
33.	ELLA Mc NIMRAN
34.	W & M. B. THOMPSON
35.	R. N. COUREY
36.	
37.	THE ACUMEN LAND CO. (LAND CONVEYED TO)



JOS. & MARY SZASZAK  
PROPERTY



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being all of sublots Nos. 165, 166 and 167, in the Willeverille Allotment of a part of Original Brooklyn Township Lot No. 7, as shown in the recorded plat of said Allotment in Volume 2, page 16, of Cuyahoga County Record of Maps, and bounded and described as follows:

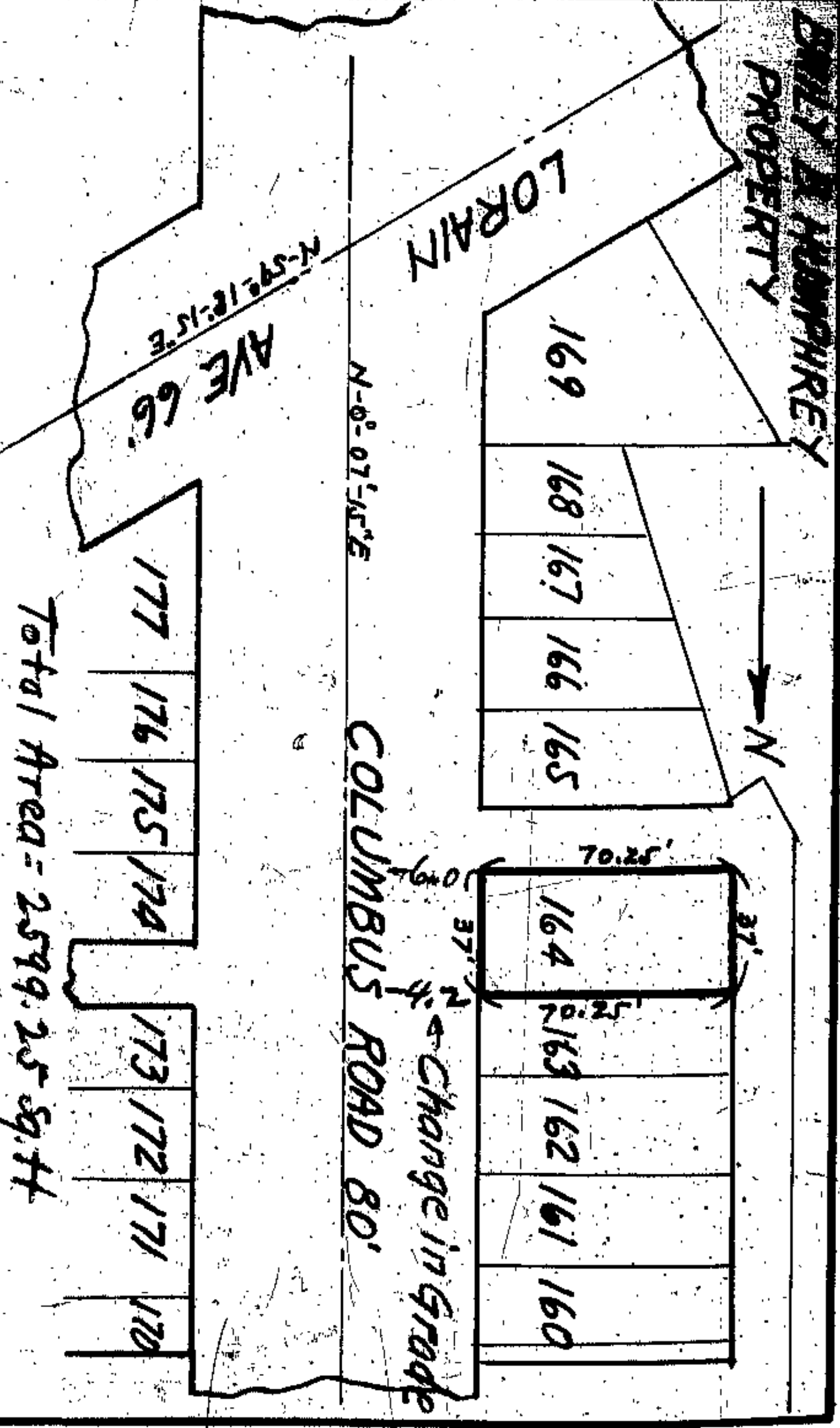
Said sublots 165, 166 and 167 have a frontage of 75 feet on the westerly side of Columbus Road and a depth of 63.5 feet on the southerly side of sublot No. 165, and a depth of 44.67 feet on the southerly side of sublot No. 167, and a width of 77.76 feet in the rear, containing approximately 4078.5 sq. ft. but, subject to all legal highways.

2

at Transfer 4-11-31

Scale 1"=50'

BILL J. HUMPHREY  
PROPERTY



Total Area = 2599.25 sq. ft.

3

Not Purchased 12-5-31

Scale 1"=50'



JAN SCHMEER  
PROPERTY

LORAIN  
N-59°-18'-15"E



N-02°-07'-14"E

Change in Grade  
COLUMBUS ROAD 80'

Ave. 66



Total Area = 3512.5 sq. ft.

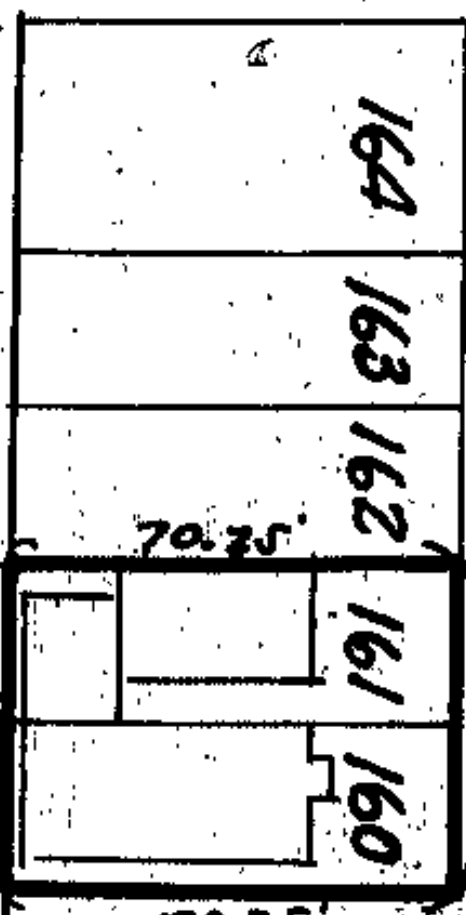
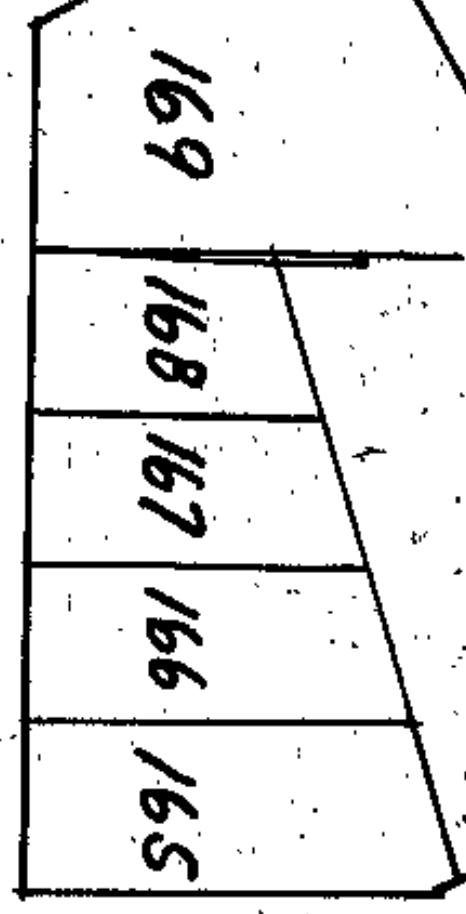
Paid Damages only

4 Not Purchased 12-5-32

Scale 1" = 50'

LIZZIE BAUMGARTNER  
PROPERTY

LORAIN  
N-59°-18'-15"E



N-02°-07'-14"E

Change in Grade  
COLUMBUS ROAD 80'

Ave. 66

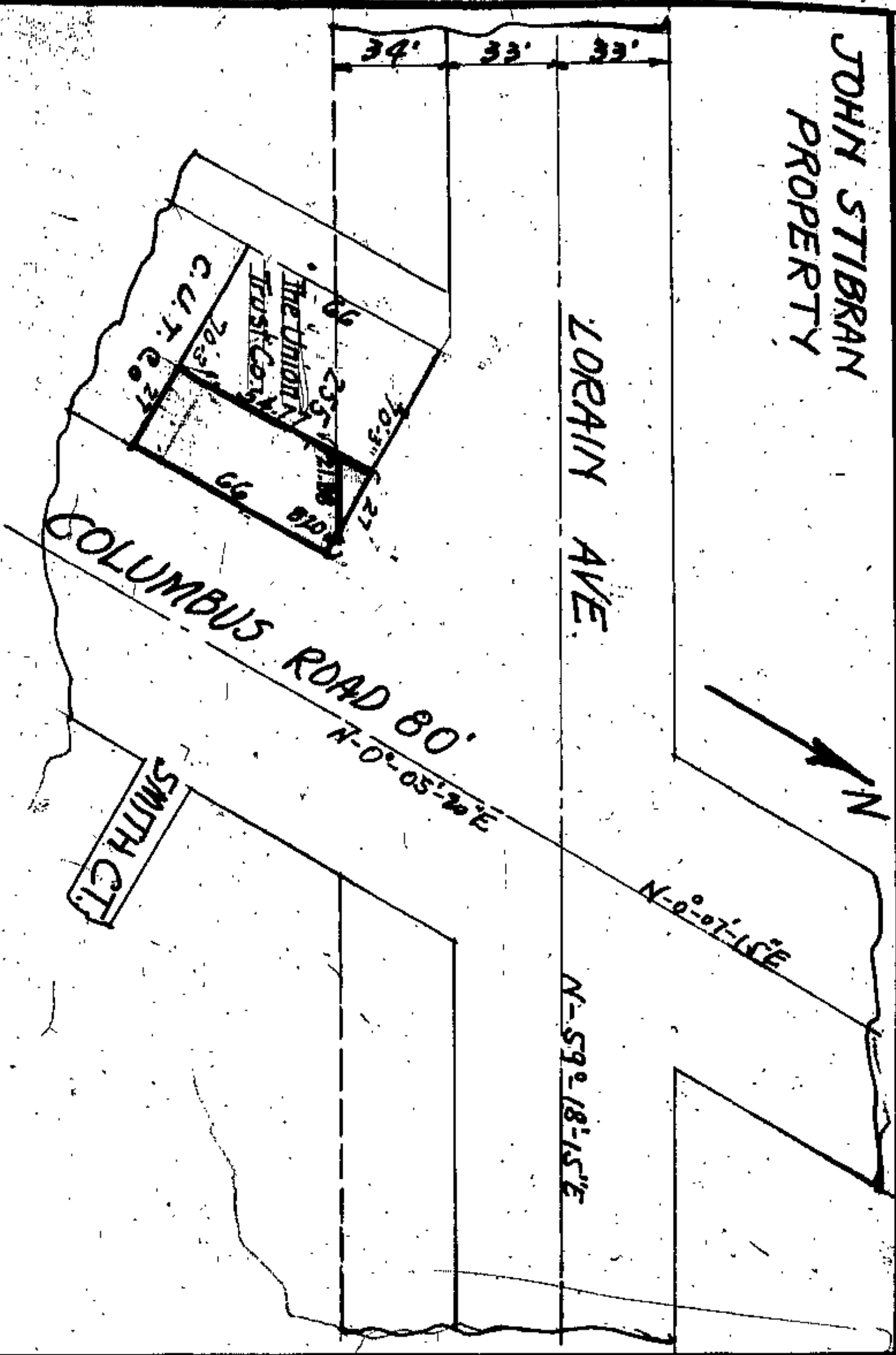


Total Area = 3512.5 sq. ft.

5 Not Purchased 12-5-32

Scale 1" = 50'

**JOHN STIBRAN  
PROPERTY**



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of subplot No. 255 in the Willeyville Allotment of a part of Original Brooklyn Township Lots Nos. 69 and 70, as shown by the recorded plat of said allotment in Volume 2, page 16 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at the northeasterly corner of subplot No. 255, which is also the intersection of the westerly line of Columbus Road with the southerly line of Lorain Avenue;

Thence southerly along the westerly line of Columbus Road a distance of about 66 feet to the northerly line of land now owned by The Cleveland Union Terminal Company;

Thence westerly along the northerly line of land now owned by The Cleveland Union Terminal Company a distance of about 27 feet to the easterly line of land now owned by the Union Trust Company;

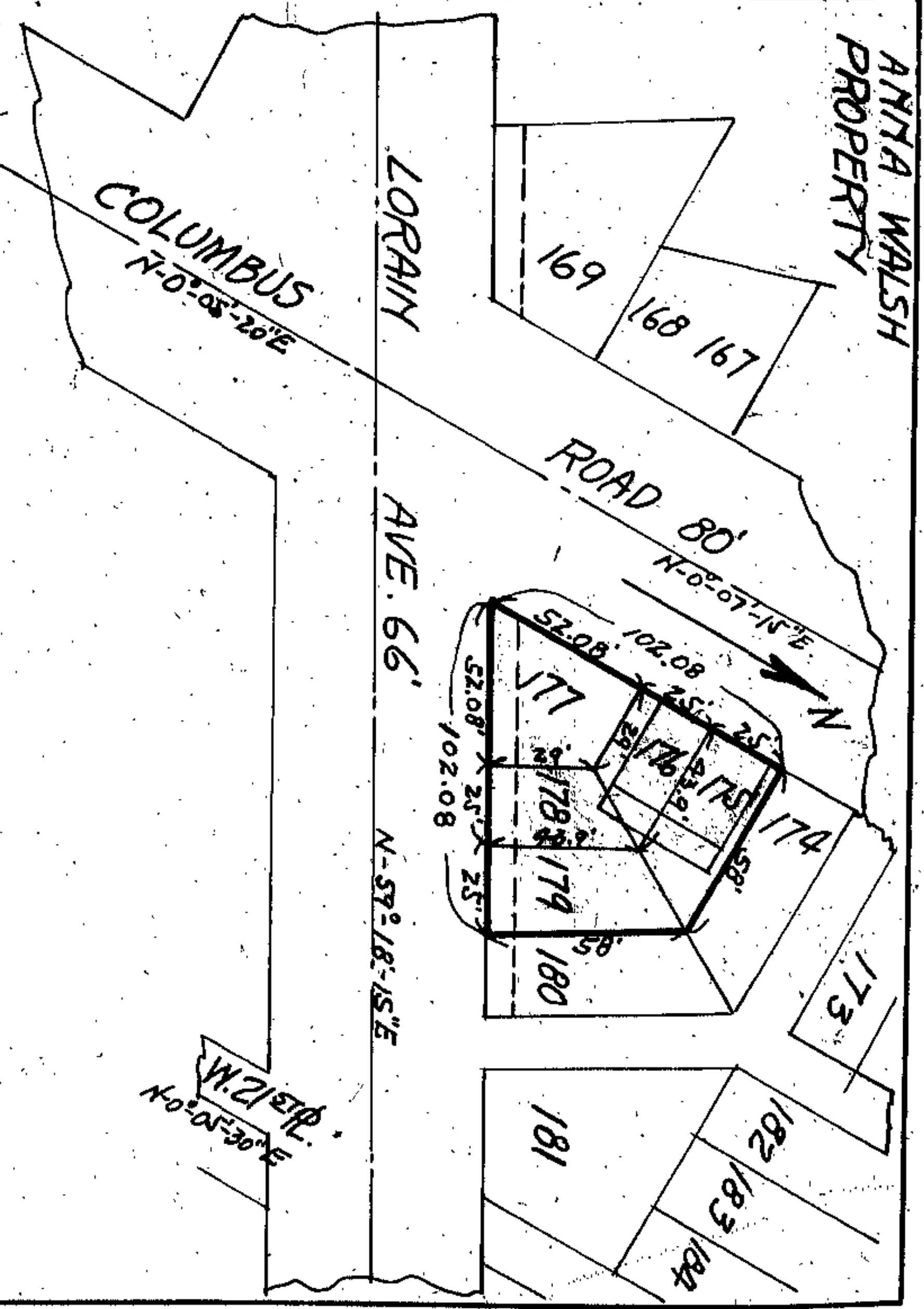
Thence northerly along the easterly line of land now owned by the Union Trust Company a distance of about 66 feet to the southerly line of Lorain Avenue;

Thence easterly along the southerly line of Lorain Avenue a distance of about 27 feet to the place of beginning. Containing approximately 1762 sq ft., but subject to all legal highways.

Land Purchased  
Described as above  
November 1-12-31  
Vol 1108 P 9250

Scale - 1" = 50'

**ANNA WALSH  
PROPERTY**



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being sublots Nos. 175, 176, 177, 178 and 179, in the Willeyville Allotment of a part of Original Brooklyn Township Lot Nos. 69 and 70, as shown on the recorded plat of said allotment in Volume 2, page 16 of Cuyahoga County Record of Maps and bounded and described as follows:

Beginning in the northerly line of Lorain Avenue, 66 feet wide, at its intersection with the easterly line of Columbus Road;

Thence northerly along the easterly line of Columbus Road a distance of about 102.08 feet to the northerly line of subplot 175;

Thence easterly along the northerly line of subplot No. 175, a distance of about 58 feet to the northeasterly corner of subplot No. 179;

Thence southerly along the easterly line of subplot No. 179 a distance of about 58 feet to the northerly line of Lorain Avenue;

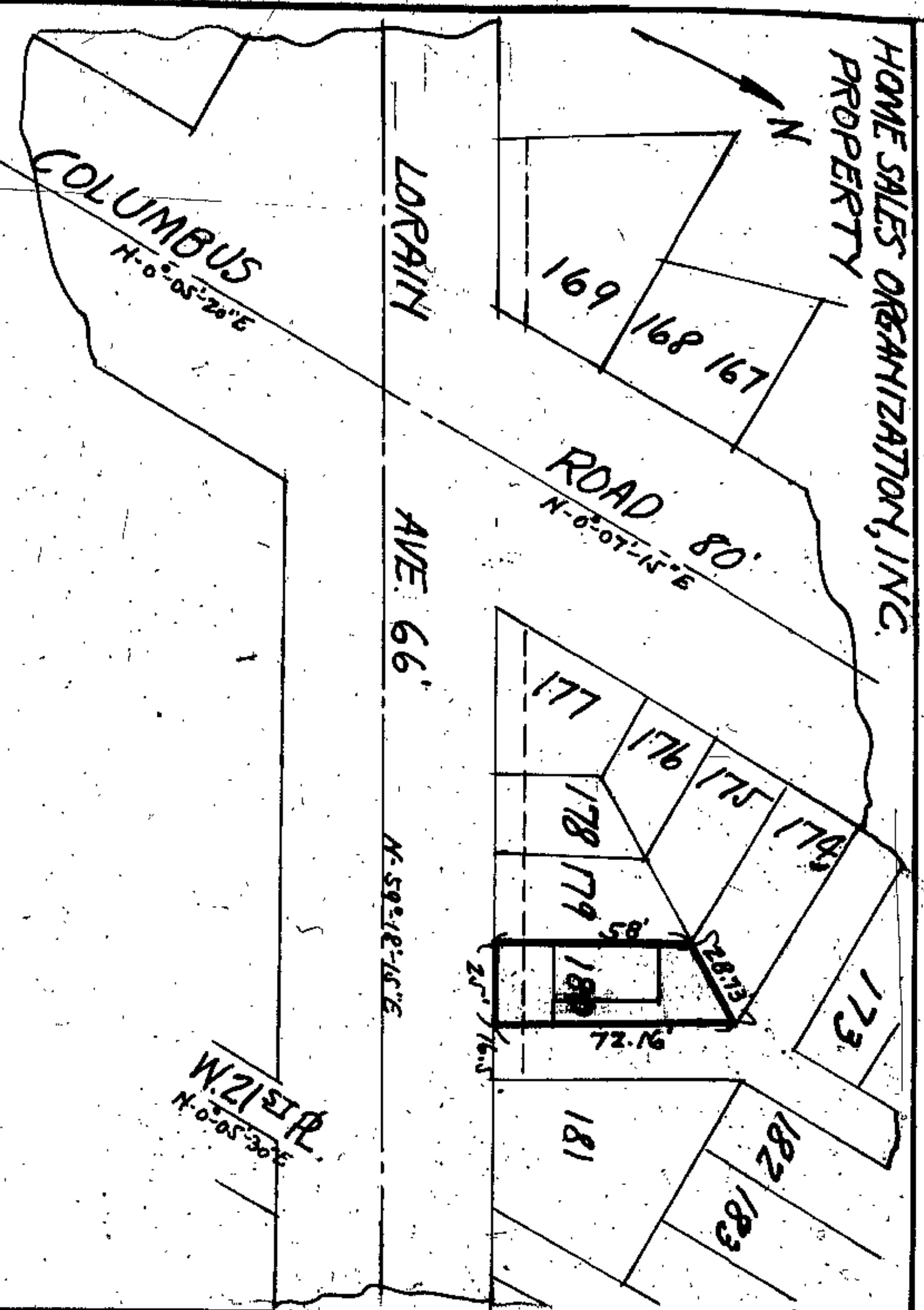
Thence westerly along the northerly line of Lorain Avenue a distance of about 102.08 feet to the place of beginning, containing approximately 5880.3 square feet, but subject to all legal highways.

at Transfer 2-11-31

Scale - 1" = 50'



HOME SALES ORGANIZATION, INC.  
PROPERTY



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being Sublot 180 in the Willeyville Allotment of a part of original Brooklyn Township lot Nos. 69 and 70 as shown in the recorded plat of said allotment in Volume 2, page 16 of Cuyahoga County Record of maps, and bounded and described as follows:

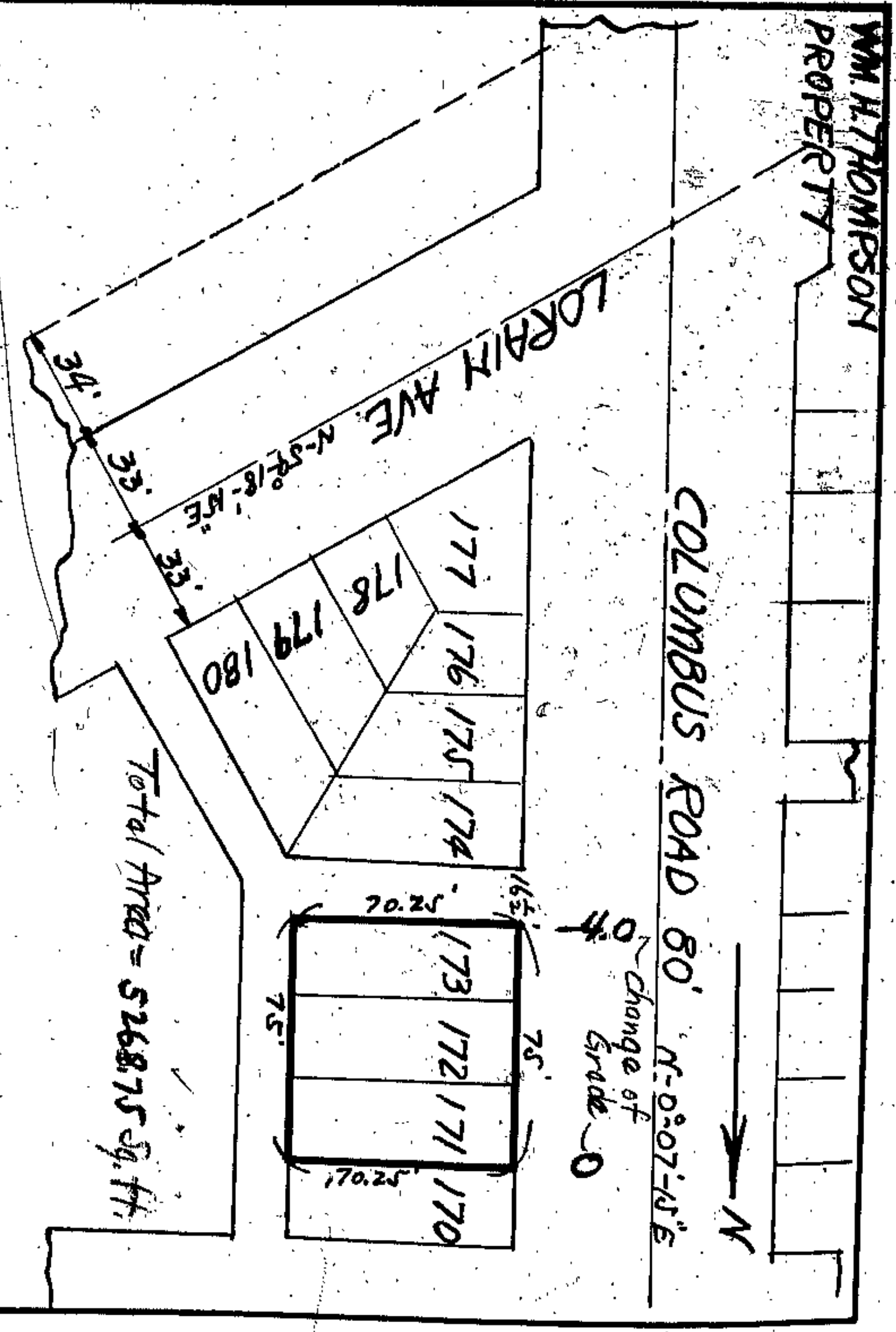
- Beginning in the northerly line of Lorain Avenue (66 feet wide) at its intersection with the westerly line of said Sublot No. 180;
- Thence northerly along the westerly line of Sublot No. 100 a distance of about 58 feet to the northwesterly corner of said Sublot;
- Thence northeasterly a distance of about 28.73 feet to the northeasterly corner of said Sublot;
- Thence southerly along the easterly line of said Sublot a distance of about 72.16 feet to the said northerly line of Lorain Avenue;
- Thence westerly along said northerly line of Lorain Avenue a distance of about 25 feet to the place of beginning, containing approximately 1627.5 sq. ft., but subject to all legal highways.

*Burchard, Deane, etc.*  
*Traverse 2-11-31*

8

Scale-1"=50'

WM. H. THOMPSON  
PROPERTY



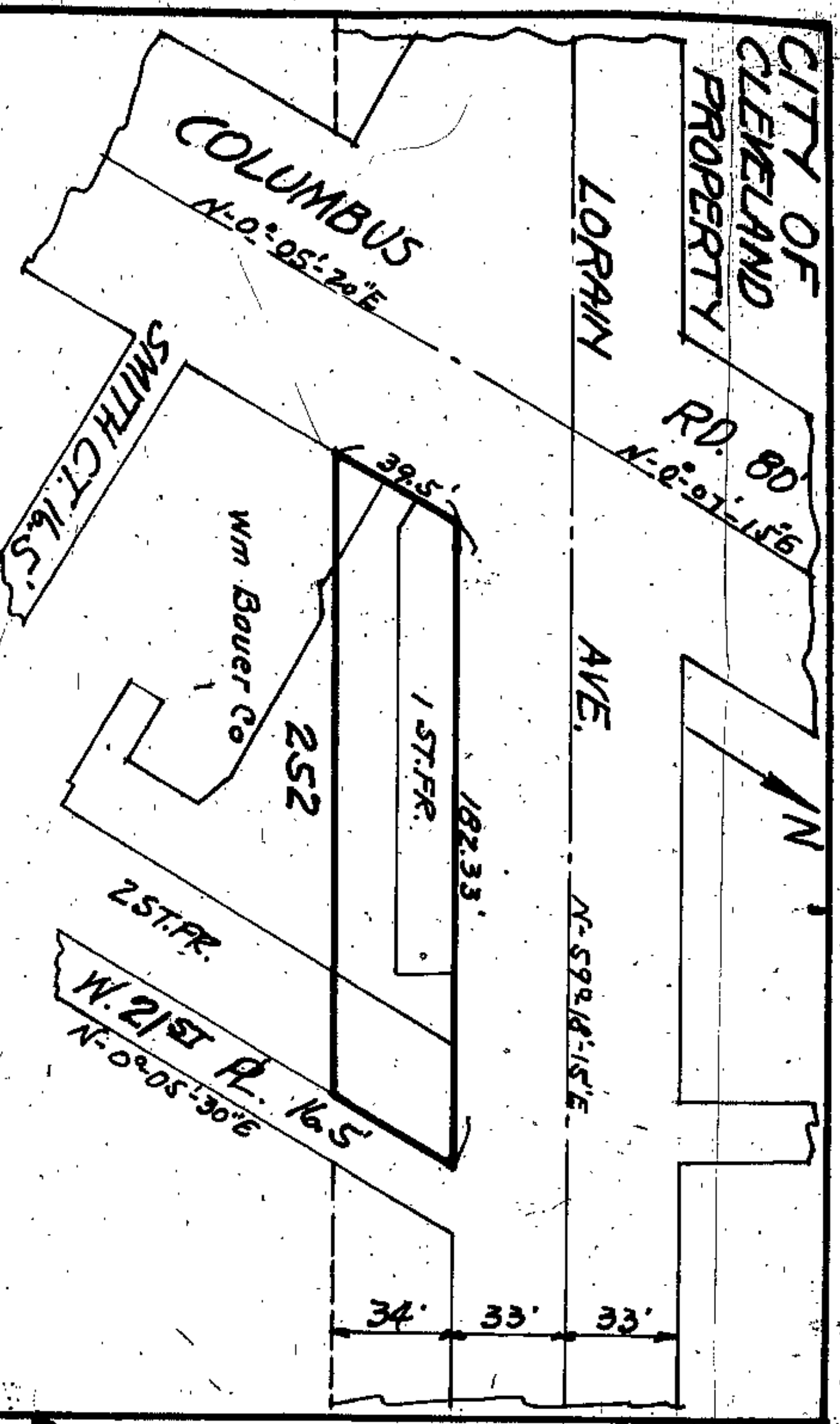
*Void see record sheet 34*

Total Area = 5268.75 sq. ft.

X

9

Scale-1"=50'



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of sublot No. 252 in the Willeville Allotment of a part of Original Brooklyn Township Lots Nos. 69 and 70 as shown in the recorded plat of said allotment in Vol. 2, Page 16 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at a point in the southerly line of Lorain Avenue (66 feet wide) at its intersection with the easterly line of Columbus Road;

Thence easterly along the southerly line of Lorain Avenue a distance of about 182.35 feet to the westerly line of West 21st Place;

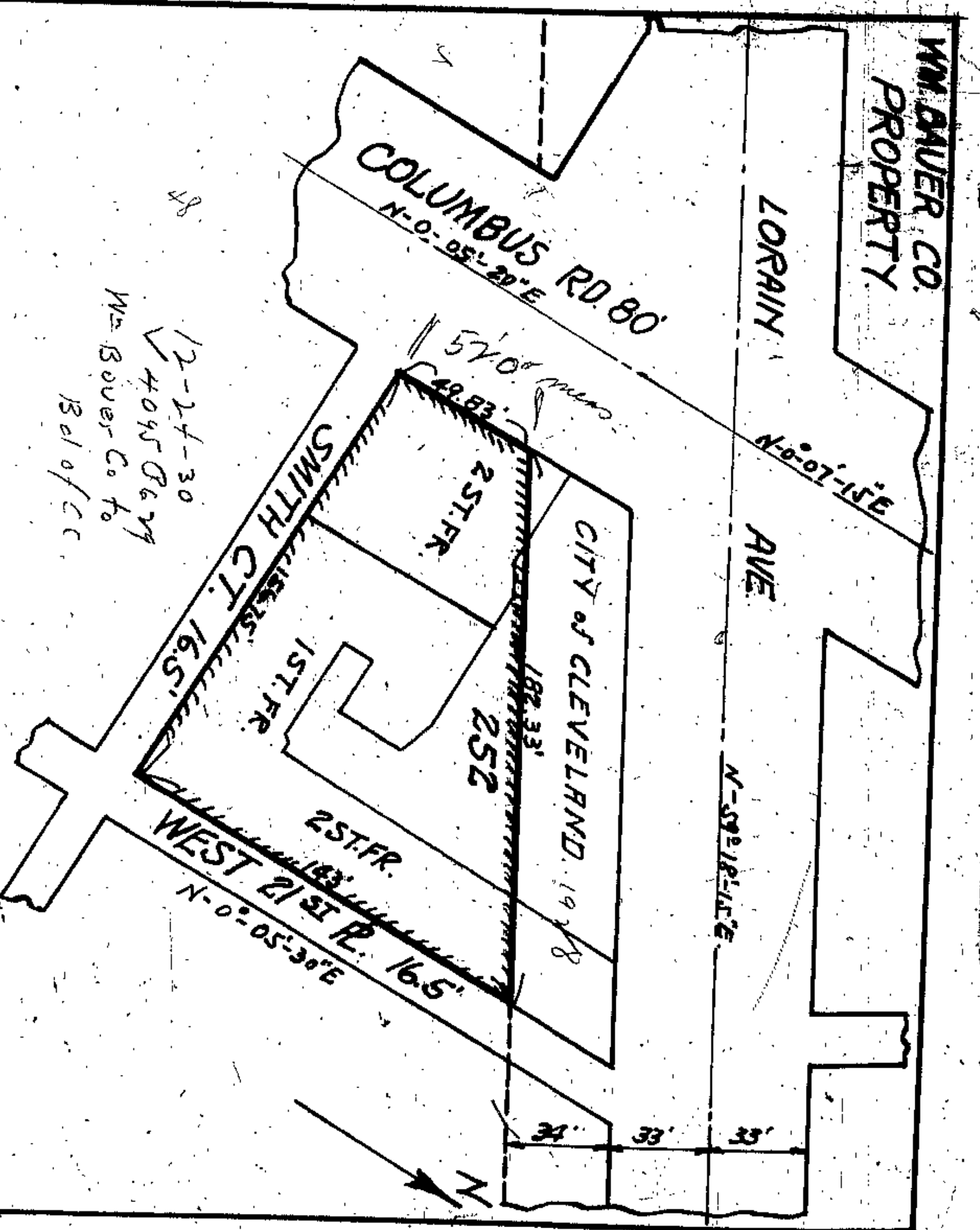
Thence southerly along the westerly line of West 21st Place a distance of about 39.5 feet to the northerly line of land now owned by the Wm. Bauer Company;

Thence westerly along the northerly line of land now owned by the Wm. Bauer Company a distance of about 182.35 feet to the easterly line of Columbus Road;

Thence southerly along the easterly line of Columbus Road a distance of about 39.5 feet to the place of beginning, containing approximately 5,199.22 feet but subject to all legal highways.

⑩ strip 34 wide still in City of Cle. 12-5-32

Scale 1/4"=50'



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of sublot No. 252 in the Willeville Allotment of a part of Original Brooklyn Township Lots Nos. 69 and 70 as shown in the recorded plat of said allotment in Vol. 2, Page 16 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at a point in the easterly line of Columbus Road at its intersection with the southerly line of land now owned by the City of Cleveland, which point is also southerly from and at right angles to the southerly line of Lorain Avenue (66 feet wide) a distance of 34 feet;

Thence easterly along the southerly line of land now owned by the City of Cleveland a distance of about 182.35 feet to the westerly line of W. 21st Place;

Thence southerly along the westerly line of W. 21st Place a distance of about 143 feet to the northerly line of Smith Court;

Thence westerly along the northerly line of Smith Court a distance of about 156.75 feet to the easterly line of Columbus Road;

Thence northerly along the easterly line of Columbus Road a distance of about 49.83 feet to the place of beginning, containing approximately 15,115 square feet but subject to all legal highways.

Wm. Bauer Co. 12-24-30  
 4045 D&M  
 Below/c

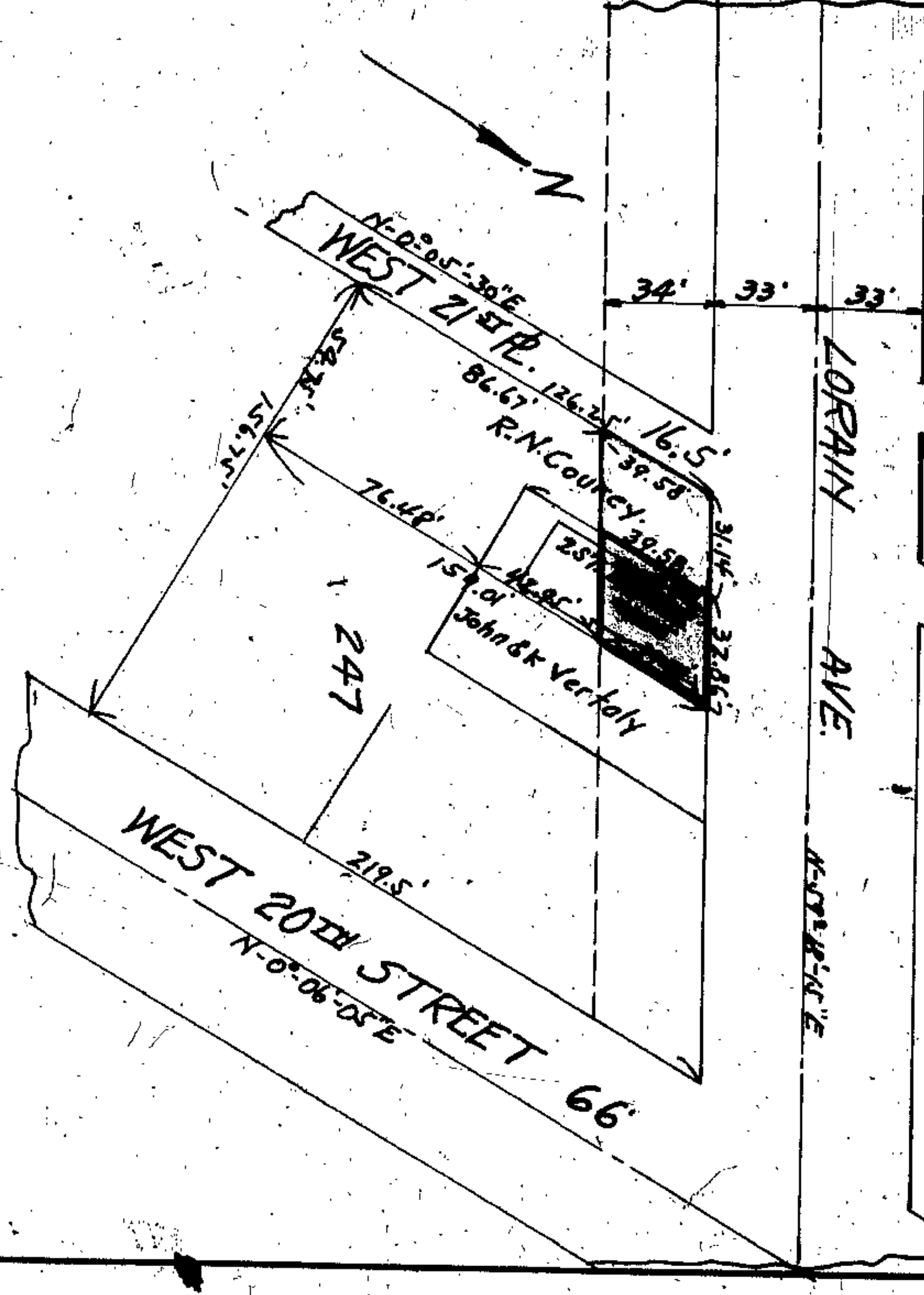
Deed of Transfer 12-24-30  
 Consideration \$147,500 -  
 Joun 80 Plus

⑪

Scale 1/4"=50'



R.N. GOUREY  
PROPERTY



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of subplot No. 247 in the Willeville Allotment of a part of Original Brooklyn Township Lots Nos. 69 and 70, as shown in the Recorded plat of said allotment in Volume 2, page 16 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the southerly line of Lorain Avenue (66 feet wide) at its intersection with the westerly line of land now or formerly owned by John and K. Vertally;

Thence southerly along the westerly line of land now or formerly owned by John and K. Vertally a distance of about 39.58 feet to a point which point is distant 34 feet at right angles from the southerly line of Lorain Avenue;

Thence westerly parallel with the southerly line of Lorain Avenue, and 34 feet distant therefrom, a distance of about 32.86 feet to the easterly line of land now or formerly owned by R.N. Gourey;

Thence northerly along the easterly line of land now or formerly owned by R.N. Gourey a distance of about 39.58 feet to the southerly line of Lorain Avenue;

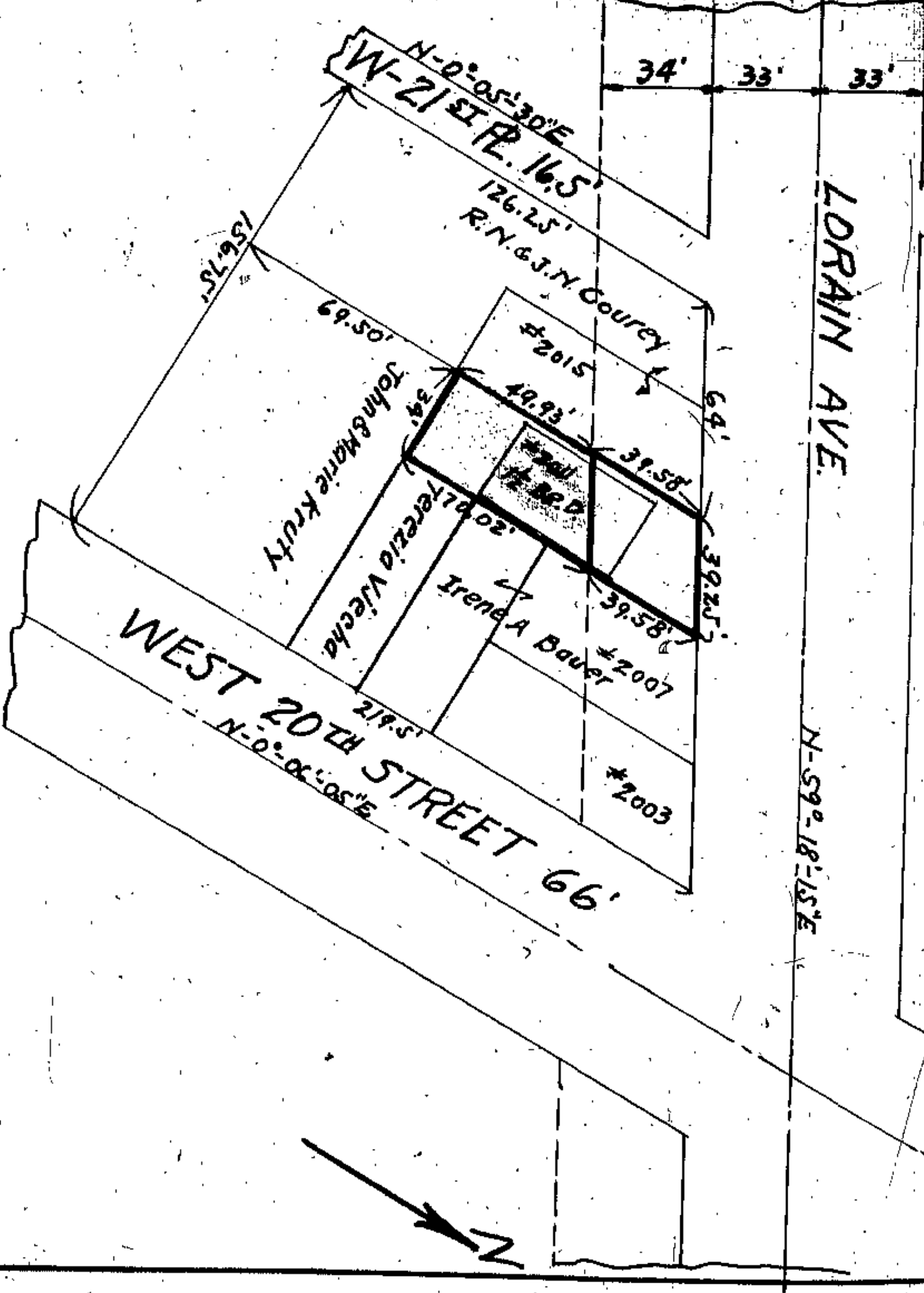
Thence easterly along the southerly line of Lorain Avenue a distance of about 32.86 feet to the place of beginning, containing approximately 117.24 sq ft, but subject to all legal highways.

12

Done etc. See also No 35  
Transfer 2-10-31

Scale - 1" = 50'

JOHN & K. VERTALLY  
PROPERTY



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of subplot No. 247 in the Willeville Allotment of a part of Original Brooklyn Township Lots Nos. 69 and 70 as shown in the recorded plat of said allotment in Vol. 2, Page 16 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the southerly line of Lorain Avenue (66 feet wide) at its intersection with the easterly line of West 21st Place;

Thence easterly along the southerly line of Lorain Avenue a distance of about 64 feet to the easterly line of land now owned by R.N. and J.N. Gourey, the principal place of beginning;

Thence southerly along the easterly line of land now owned by said R.N. and J.N. Gourey a distance of about 39.51 feet to the northerly line of land now owned by John and Marie Kruty;

Thence easterly along the northerly line of land now owned by John and Marie Kruty a distance of about 34 feet;

Thence northerly along the line of land now owned by Terezia Visecha and Irene A. Bauer a distance of about 109.60 feet to the southerly line of Lorain Avenue;

Thence westerly along the southerly line of Lorain Avenue a distance of about 59.25 feet to the place of beginning, containing about 5,365 square feet but subject to all legal highways.

13

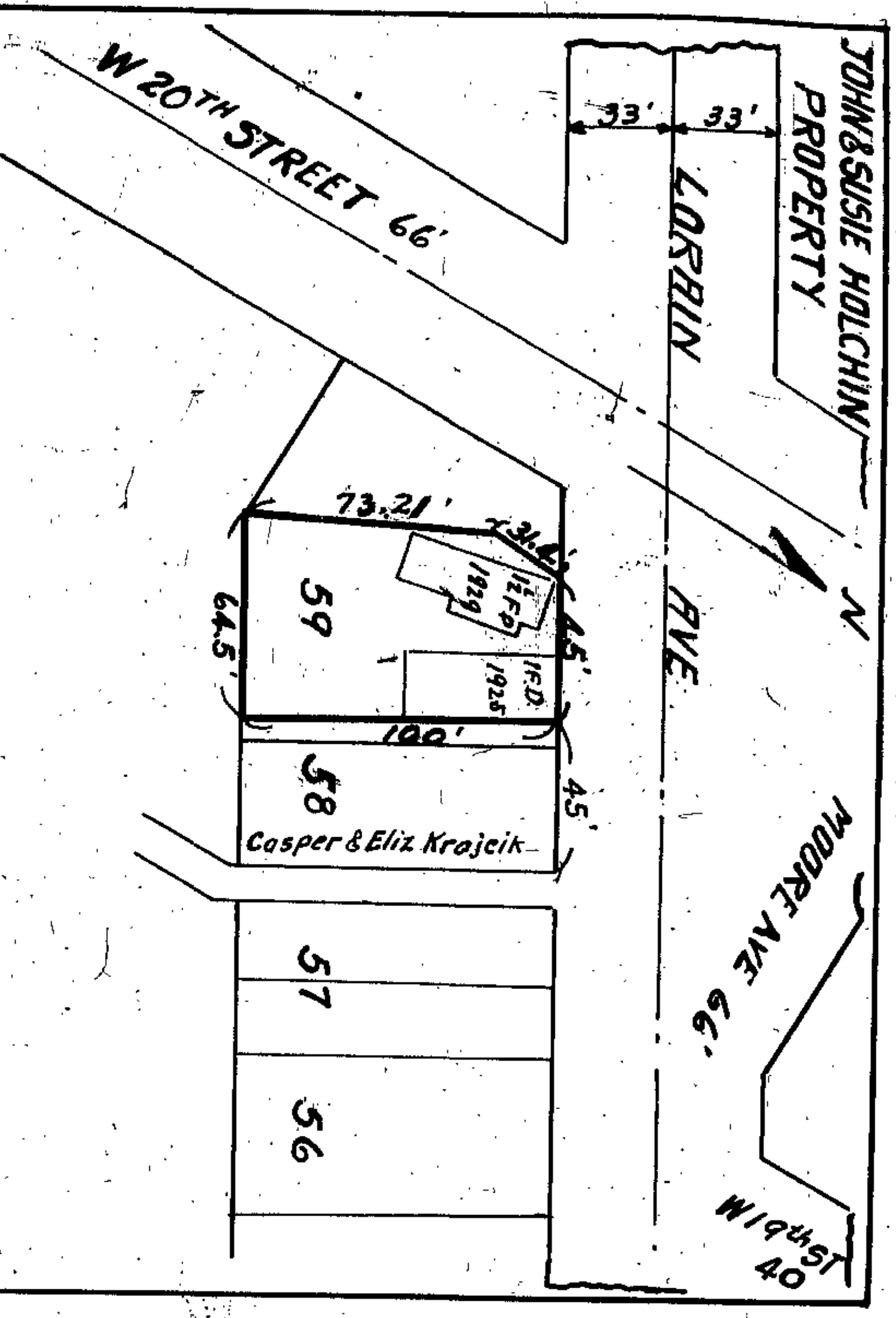
Transfer 12-29-30  
Deed Rec. 4096-199

Scale - 1" = 50'









Situated in the City of Cleveland, County of Cuyahoga, and State of Ohio, and known as being a part of Sublot No. 59 in the Averill & Bradford's Allotment of a part of Original Brooklyn Township Lot No. 70, as shown in the recorded plat of said allotment in Volume 4, page 3 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the southerly line of Lorain Avenue, as shown in plat of said allotment, at its intersection with the easterly line of land now or formerly owned by Casper and Eliz Krajeck;

Thence southerly along the easterly line of land now or formerly owned by Casper and Eliz Krajeck a distance of about 100 feet to the southerly line of subplot No. 59;

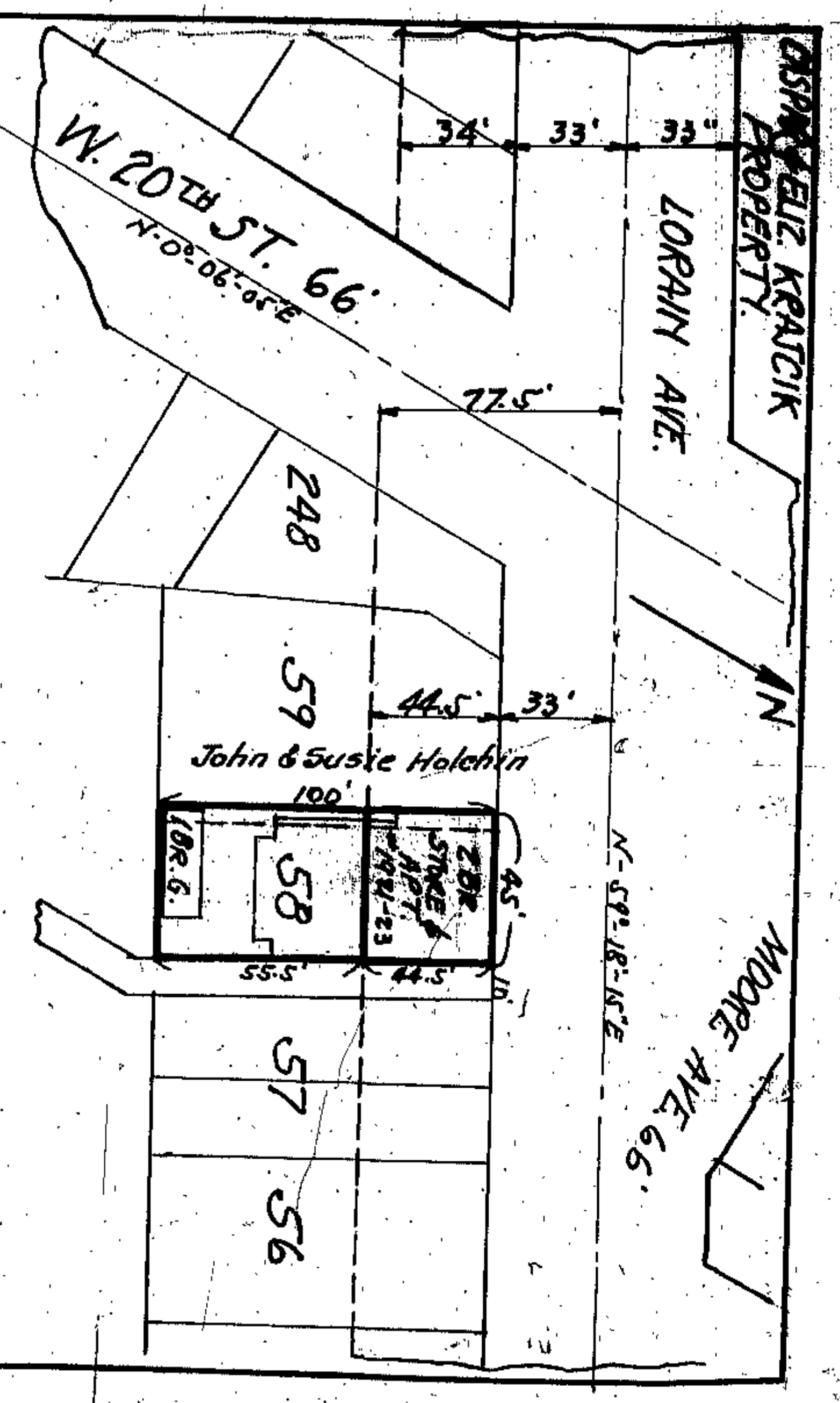
Thence westerly along the southerly line of subplot No. 59 a distance of about 64.5 feet to the westerly line of subplot No. 59;

Thence northerly along the westerly line of subplot No. 59 a distance of about 73.21 feet to an angle in the westerly line of subplot No. 59;

Thence continuing northerly along the westerly line of subplot No. 59 a distance of about 31.4 feet to said southerly line of Lorain Avenue;

Thence easterly along said southerly line of Lorain Avenue a distance of about 45 feet to the place of beginning, containing approximately 6034.3 square feet, but subject to all legal highways.

Correct Transfer 12-23-30



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being Sublot No. 58 and a part of Sublot No. 59 in the Averill and Bradford's Allotment of a part of Original Brooklyn Township Lot No. 70, as shown in the recorded plat of said allotment, in Volume 4, Page 3, of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the southerly line of Lorain Avenue at the northeasterly corner of subplot No. 58 as shown by the recorded plat of said allotment;

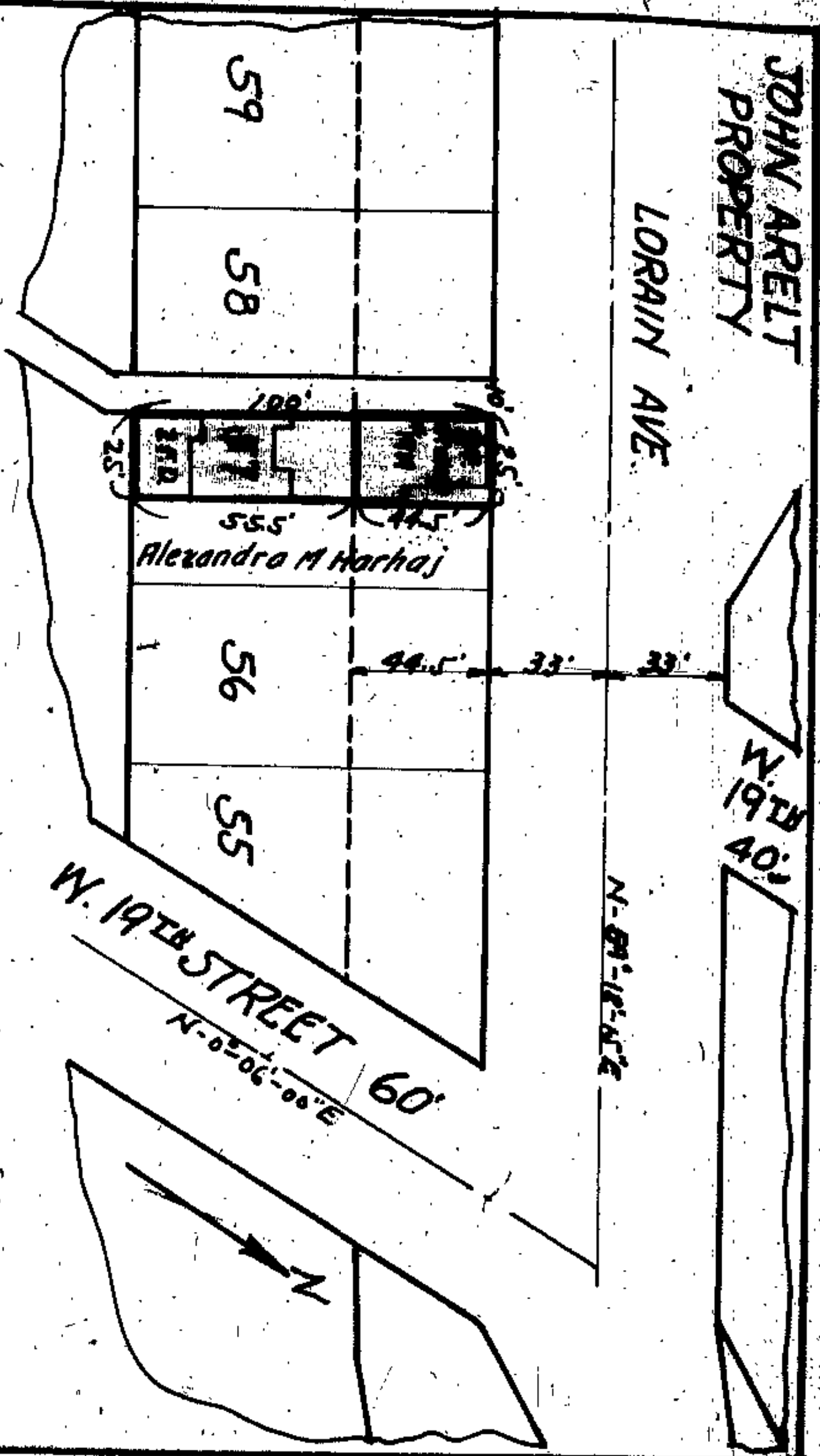
Thence southerly along the easterly line of subplot No. 58 a distance of about 100 feet to the southerly line of subplot No. 58;

Thence westerly along the southerly line of Sublots Nos. 58 and 59 a distance of about 45 feet to the easterly line of land now for formerly owned by John and Susie Holchin;

Thence northerly along the easterly line of land now or formerly owned by John and Susie Holchin a distance of about 100 feet to the southerly line of Lorain Avenue;

Thence easterly along the southerly line of Lorain Avenue a distance of about 45 feet to the place of beginning. Containing approximately 4500 sq ft., but subject to all legal highways.

Correct Transfer 1-16-31



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being the westerly half of Sublot No. 57 in Averill and Bradford's Allotment of a part of Original Brooklyn Township Lot No. 70 as shown in the recorded plat of said allotment in Vol. 4, Page 3 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at a point in the southerly line of Lorain Avenue (66 feet wide) at its intersection with the westerly line of Sublot No. 57;

Thence easterly along the southerly line of Lorain Avenue a distance of about 25 feet to the westerly line of land now owned by Alexandra M. Harhaj;

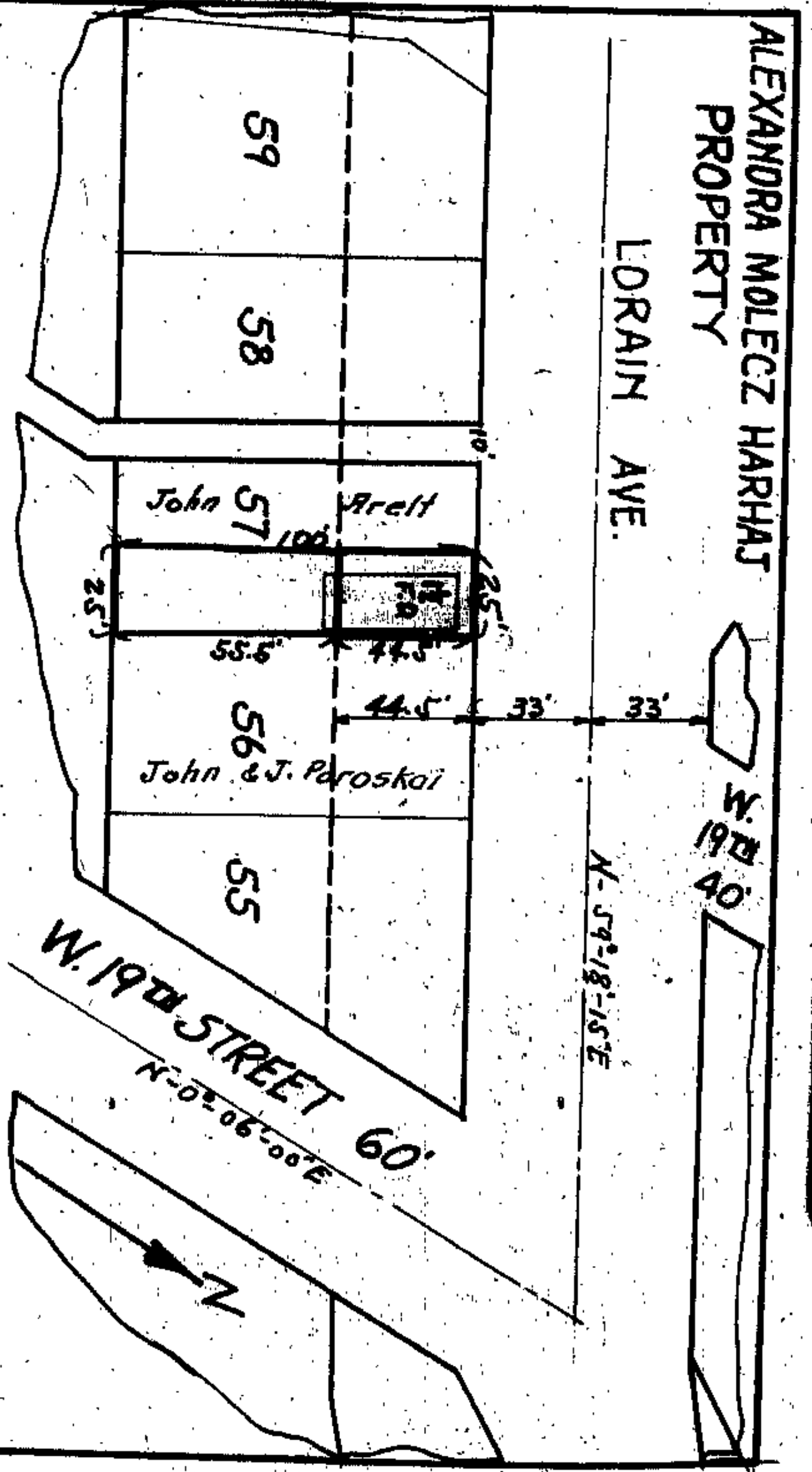
Thence southerly along the westerly line of land now owned by Alexandra M. Harhaj a distance of about 100 feet to the southerly line of Sublot No. 57;

Thence westerly along the southerly line of Sublot No. 57 a distance of about 25 feet to the westerly line of Sublot No. 57; Thence northerly along the westerly line of Sublot No. 57 a distance of about 100 feet to the place of beginning, containing approximately 2,500 square feet but subject to all legal highways.

Done at Newburgh 1-5-31

18

Scale 1"=50'



Situated in the City of Cleveland, County of Cuyahoga, and State of Ohio, and known as being the easterly half of Sublot No. 57 in Averill and Bradford's Allotment of a part of Original Brooklyn Township Lot No. 70 as shown in the recorded plat of said allotment in Volume 4, Page 3, of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at a point in the southerly line of Lorain Avenue (66 ft wide) at its intersection with the easterly line of Sublot No. 57;

Thence easterly along the westerly line of land now or formerly owned by John and J. Paroska a distance of about 100 ft to the southerly line of Sublot No. 57;

Thence westerly along the southerly line of Sublot No. 57 a distance of about 25 feet to the easterly line of land now or formerly owned by John Arelt;

Thence northerly along the easterly line of land now or formerly owned by John Arelt a distance of about 100 feet to the southerly line of Lorain Avenue;

Thence easterly along the southerly line of Lorain Avenue a distance of about 25 feet to the place of beginning, containing approximately 2,500 sq ft, but subject to all legal highways.

Done at Newburgh 2/1/31

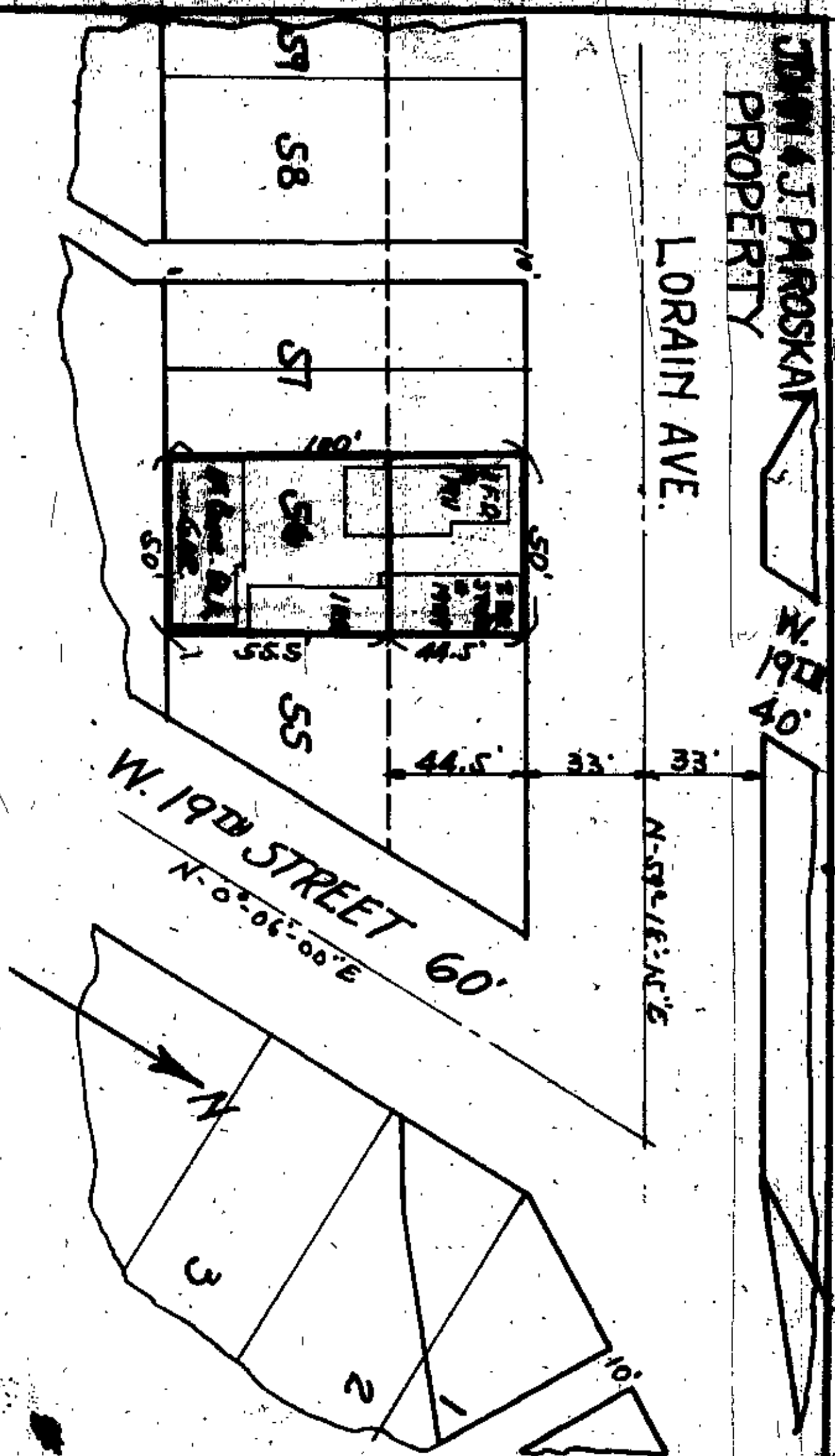
19

Scale 1"=50'



THOMAS J. PAROSKAL  
PROPERTY

LORAIN AVE.



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being Sublot No. 56 in Averill and Bradford's Grove Allotment of a part of Original Brooklyn Township lot No. 79 as shown in the recorded plat of said allotment in Vol. 4, Page 3 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at a point in the southerly line of Lorain Avenue (66 feet wide) at its intersection with the easterly line of sublot No. 56;  
 Thence southerly along the easterly line of sublot No. 56 a distance of 100 feet;  
 Thence westerly parallel with the southerly line of Lorain Avenue a distance of 50 feet to the westerly line of sublot No. 56;  
 Thence northerly along the westerly line of sublot No. 56 a distance of 100 feet to the southerly line of Lorain Avenue;  
 Thence easterly along the southerly line of Lorain Avenue a distance of 50 feet to the place of beginning, containing approximately 5,000 square feet but subject to all legal highways.

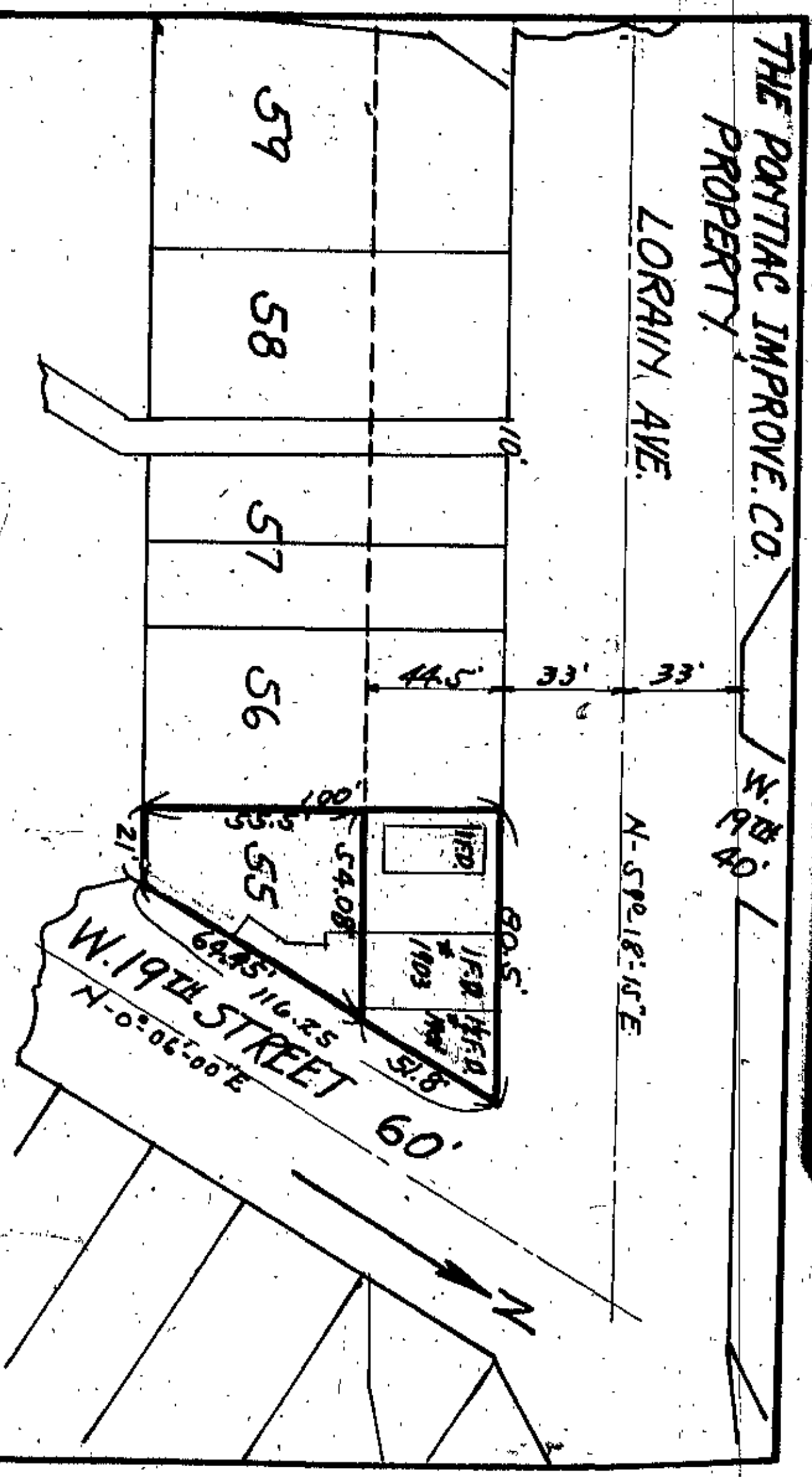
Date of Transfer 1-24-30

20

Scale 1"=50'

THE PONTIAC IMPROVE. CO.  
PROPERTY

LORAIN AVE.



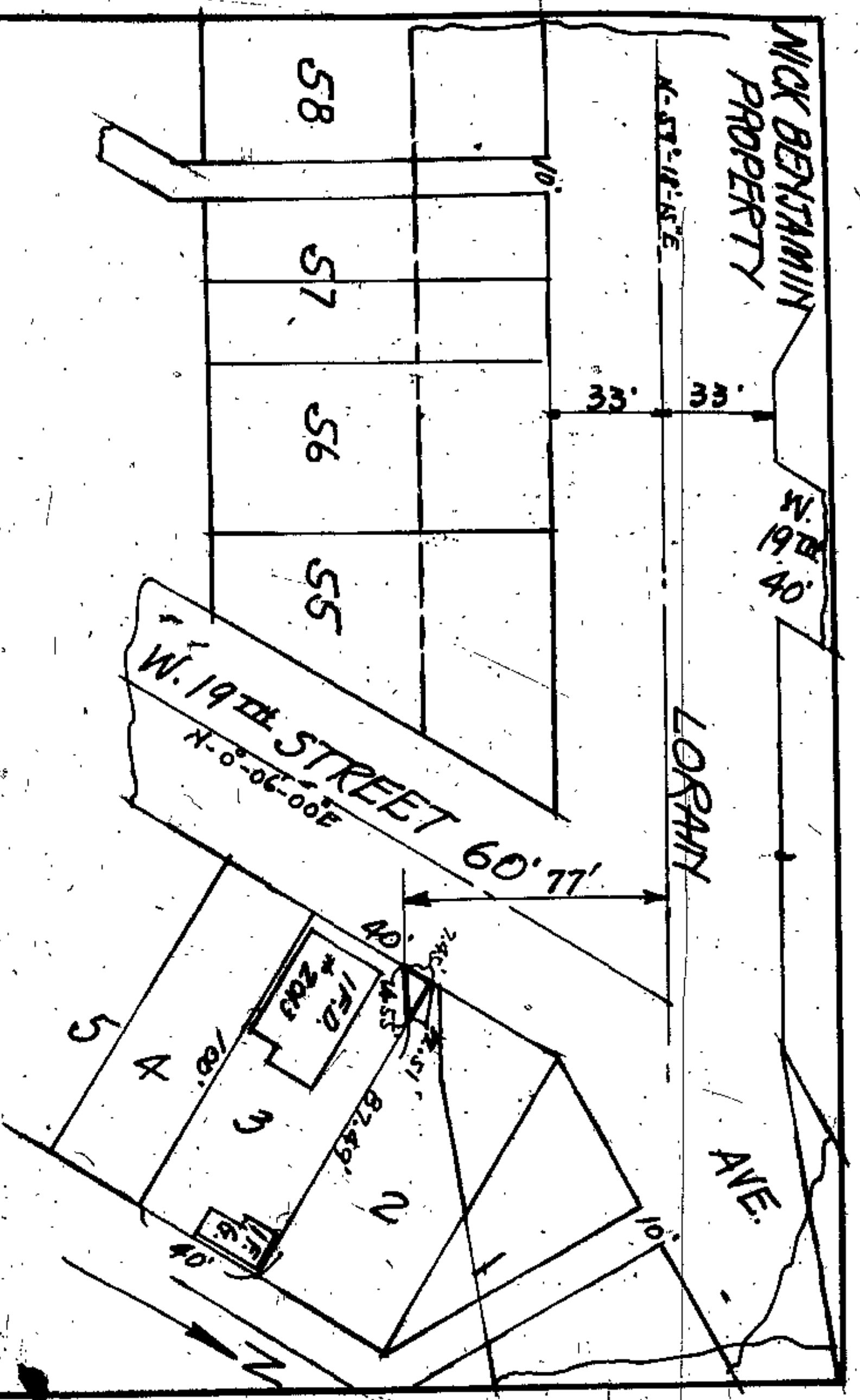
Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being sublot No. 55 in Averill & Bradford's Allotment, of a part of Original Brooklyn Township lot No. 70, as shown on the recorded plat of said allotment, in Volume 4, page 3, of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the southerly line of Lorain Avenue (66 feet wide) at its intersection with the westerly line of West 19th Street;  
 Thence southerly along the westerly line of West 19th Street a distance of about 116.25 feet to the southeasterly corner of said sublot No. 55;  
 Thence westerly along the southerly line of sublot No. 55 a distance of about 21 feet to the westerly line of sublot No. 55;  
 Thence northerly along the westerly line of sublot No. 55 a distance of about 100 feet to the southerly line of Lorain Avenue;  
 Thence easterly along the southerly line of Lorain Avenue a distance of about 60.5 feet to the place of beginning, containing approximately 5075 sq. ft., but subject to all legal highways.

Date of Transfer 2-17-31

21

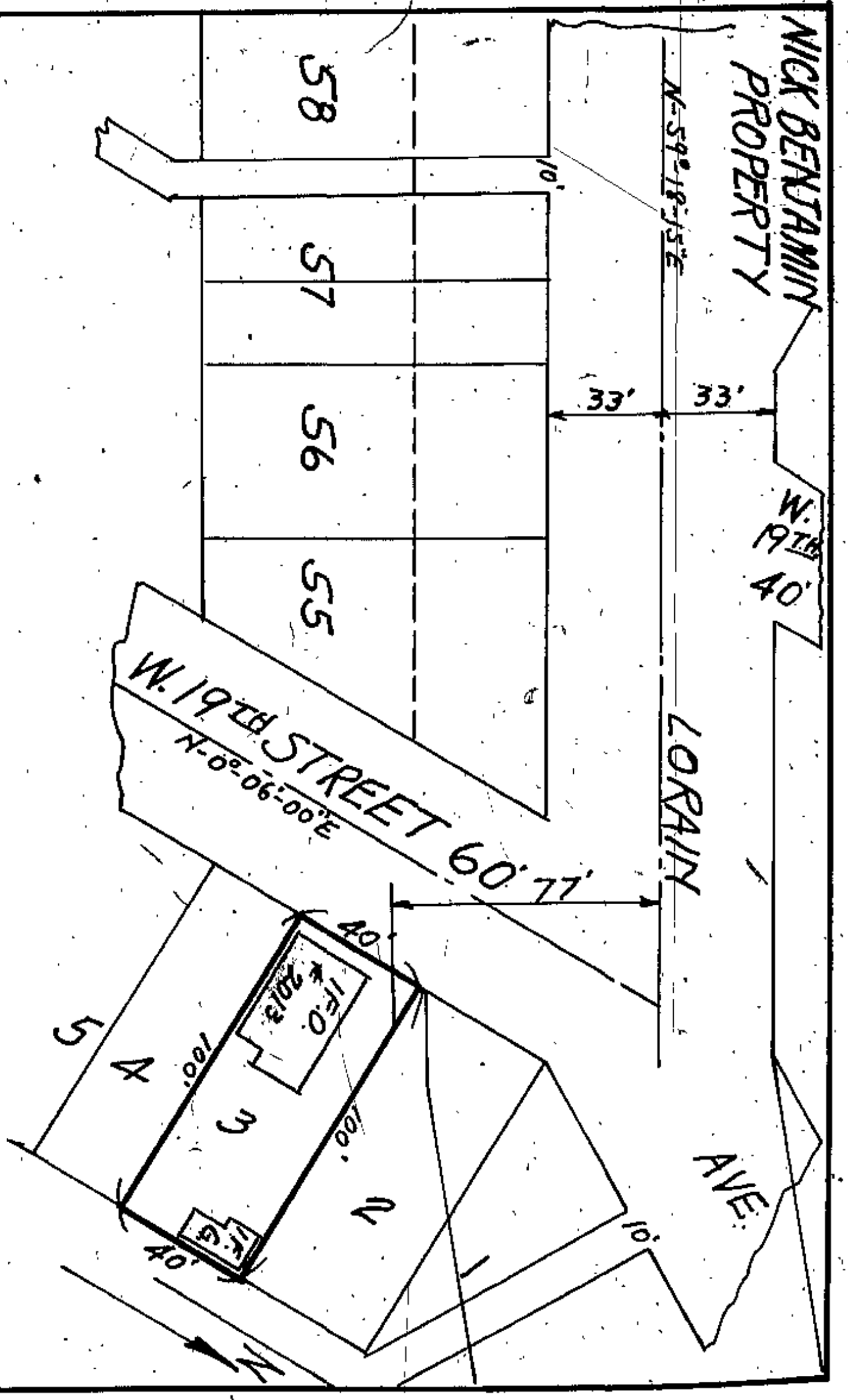
Scale 1"=50'



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of subplot No. 3 in Averill and Bradford's Allotment, of a part of Original Brooklyn Township Lot No. 70, as shown in the recorded plat of said allotment, in Volume 4, page 3, of Cuyahoga County Record of Maps and bounded and described as follows:

Beginning in the easterly line of West 19th Street at its intersection with the northerly line of said subplot No. 3; Thence southerly along the easterly line of West 19th Street a distance of about 74.5 feet; Thence easterly parallel with the center line of Lorain Avenue, and 77 feet distant southerly at right angles therefrom, a distance of about 14.55 feet to the northerly line of subplot No. 3; Thence westerly along the northerly line of subplot No. 3 a distance of about 12.51 feet to the place of beginning, containing approximately 46.6 square feet, but subject to all legal highways.

*Void and entire Parcel description*

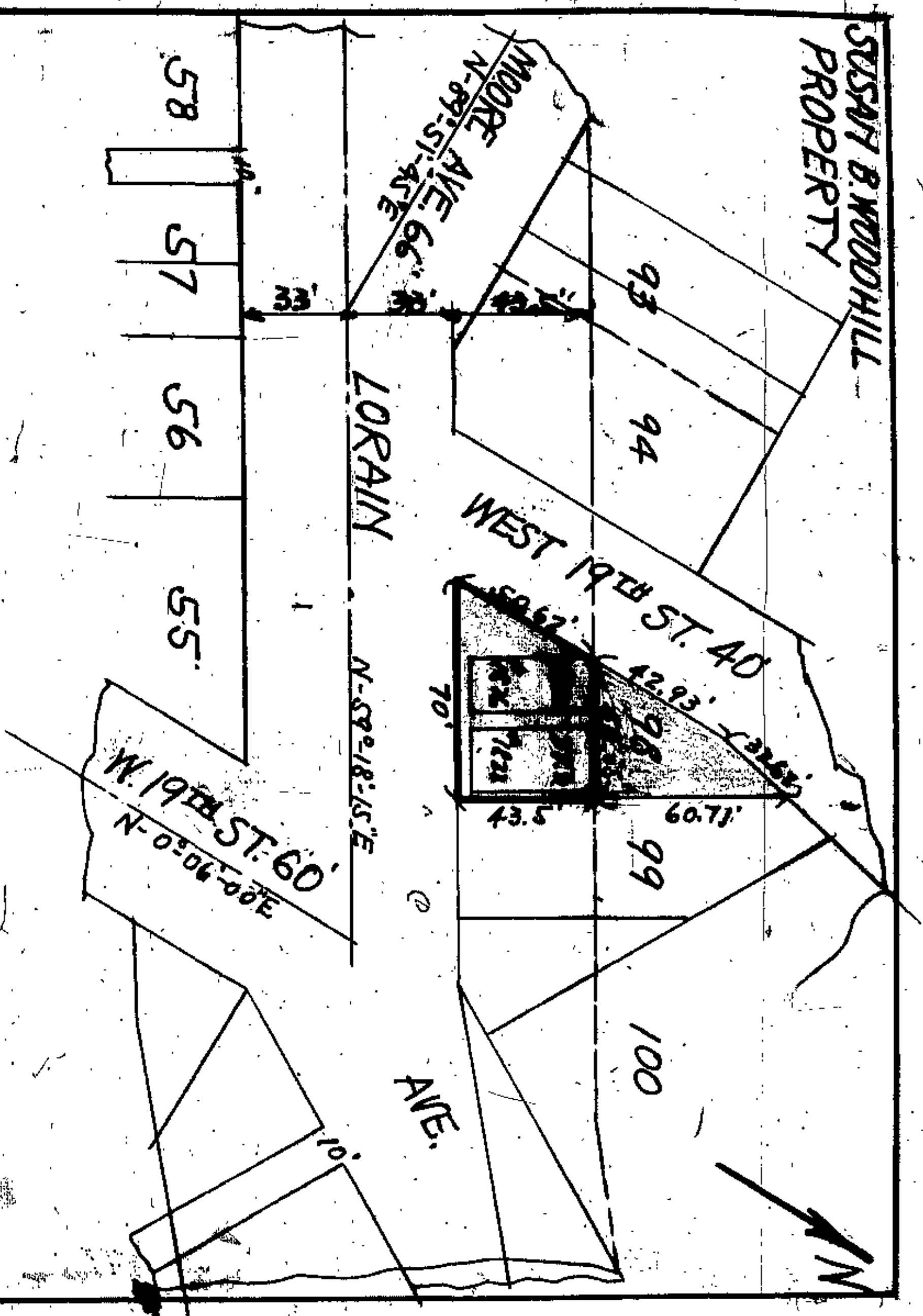


Situated in the City of Cleveland, County of Cuyahoga, and State of Ohio, and known as being subplot No. 3 in Averill and Bradford's Allotment, of a part of Original Brooklyn Township Lot No. 70 as shown in the recorded plat of said allotment in Volume 4, page 3, of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the easterly line of W. 19th Street at its intersection with the northerly line of subplot No. 3; Thence easterly along the northerly line of said subplot No. 3 a distance of 100 feet to the easterly line of said subplot; Thence southerly along the easterly line of said subplot a distance of 40 feet to the southerly line of said subplot; Thence westerly along the southerly line of said subplot a distance of 100 feet to the easterly line of W. 19th Street; Thence northerly along the easterly line of W. 19th Street a distance of 40 feet to the place of beginning, containing 4000 sq ft more or less, but subject to all legal highways.

*Deed 443 Transfer 5-13-31*

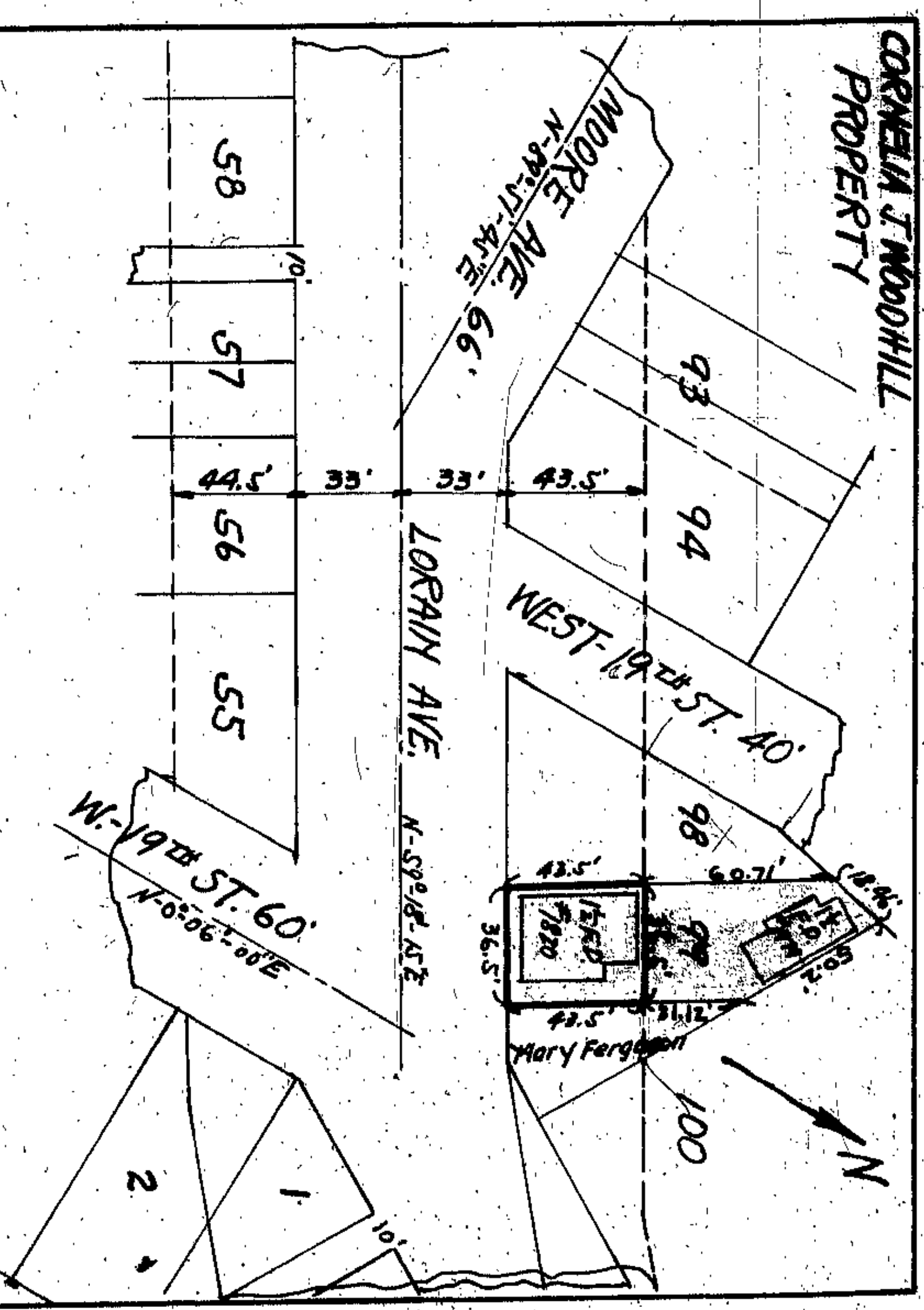




Situated in the City of Cleveland, County of Cuyahoga, and State of Ohio, and known as being Sublot No. 98 in Averill and Bradford Allotment of a part of Original Brooklyn Township Lot No. 70 as shown by the recorded plat of said Allotment in Volume 6 of Maps, page 4 of Cuyahoga County Records.

Said Sublot No. 98 is a triangular parcel of land having a frontage of 70 feet on the northerly side of Lorain Avenue, and extends back 104 feet 2-1/2 inches on the northeasterly line and 126 feet, 2-1/2 inches on the westerly line as appears by said plat. be the same more or less but subject to all legal highways.

Entire Sublot Purchased  
 For part sold (in red shade) see Sheet 37.



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of sublot 99 in Averill and Bradford's Allotment of a part of Original Brooklyn Township Lot No. 70 as shown in the recorded plat of said allotment in Vol. 6, Page 4 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at a point in the northerly line of Lorain Avenue at its intersection with the westerly line of sublot No. 99;

Thence northwesterly along the westerly line of sublot No. 99 a distance of about 104.21 feet to an angle in said line;

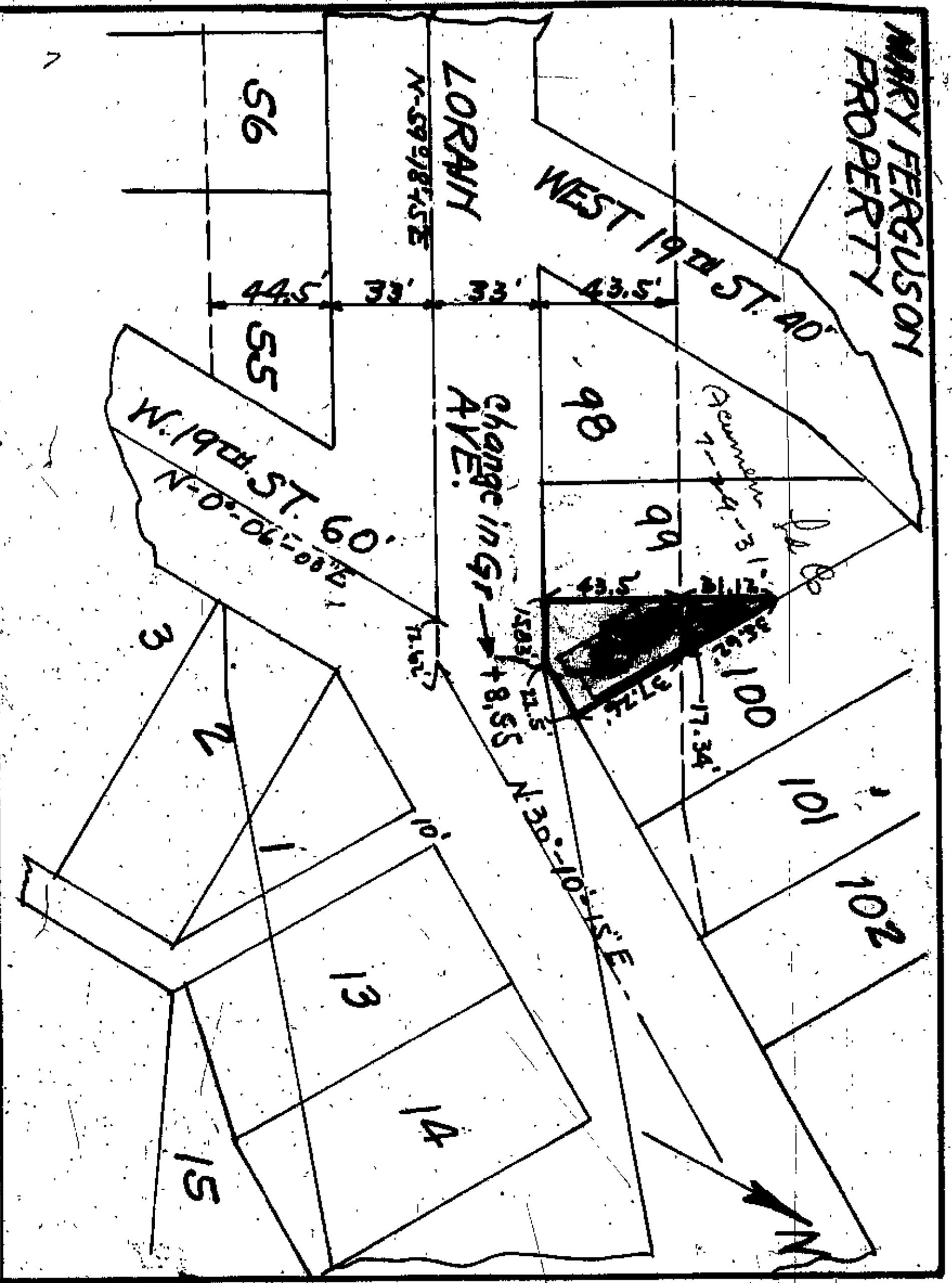
Thence northerly containing along the westerly line of sublot No. 99 a distance of about 18.46 feet to the northerly line of sublot No. 99;

Thence southeasterly along the easterly line of sublot No. 99 a distance of about 50.2 feet to the westerly line of land now owned by Mary Ferguson;

Thence southerly along the westerly line of land now owned by Mary Ferguson a distance of about 74.62 feet to the northerly line of Lorain Avenue;

Thence westerly along the northerly line of Lorain Avenue a distance of about 36.5 feet to the place of beginning, containing approximately 3,551.75 square feet but subject to all legal highways.

Land in red & yellow shade purchased  
 For part sold (in red shade) see sheet 37.



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being part of Sublot No. 99 in Averill and Bradford's Allotment of a part of original Brooklyn Township lot #70, as shown in the recorded plat of said allotment in Vol. 6, page 4, of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at a point in the northerly line of Lorain Avenue (66 ft wide) at its intersection with the easterly line of said subplot No. 99;

Thence southwesterly along the northerly line of Lorain Ave. a distance of about 22.5 ft., to an angle in Lorain Avenue;

Thence westerly along the northerly line of Lorain Ave. a distance of about 15.83 ft. to the easterly line of land now owned by Cornelia J. Woodhull;

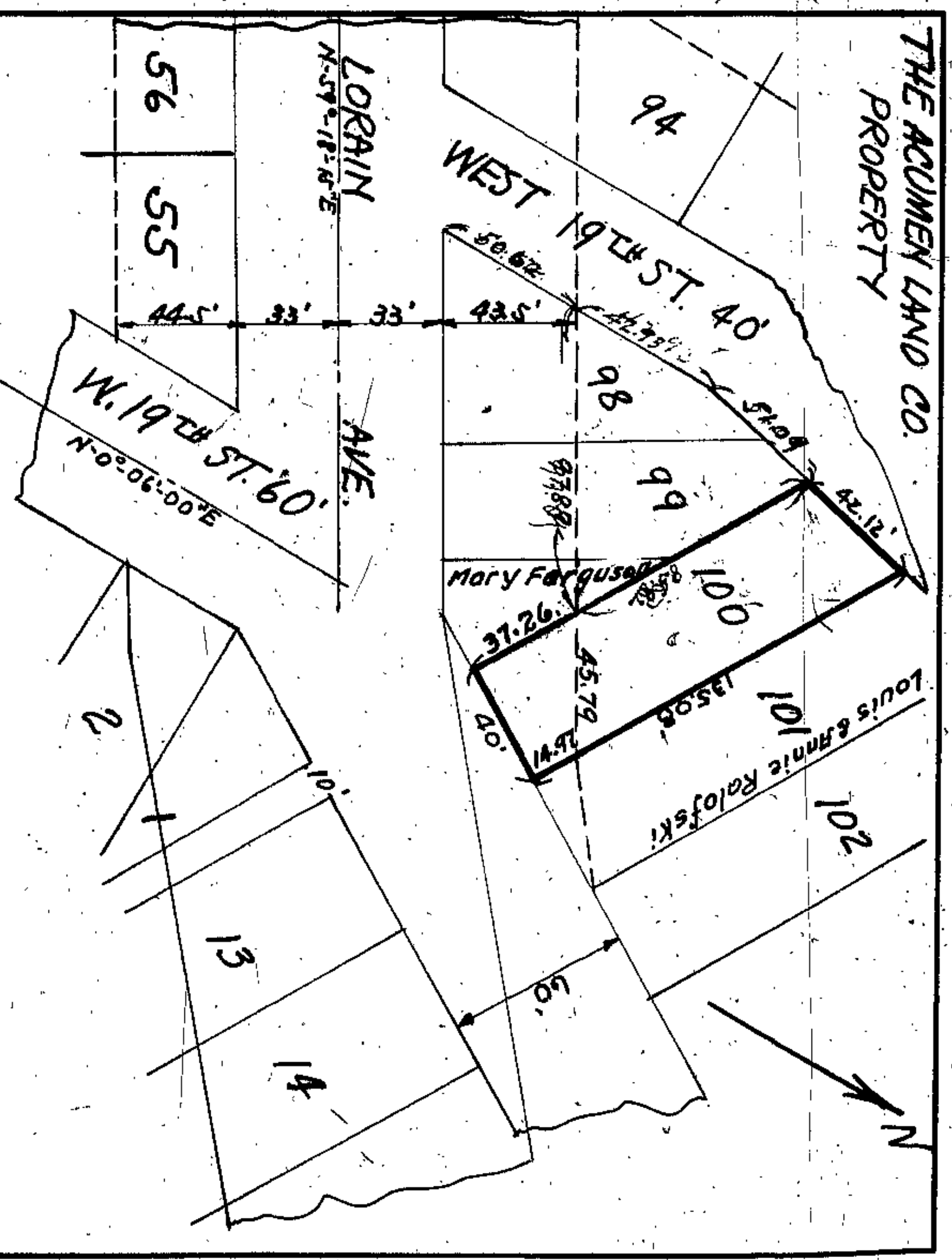
Thence northerly along the easterly line of land now owned by Cornelia J. Woodhull a distance of about 74.62 ft. to the easterly line of said subplot No. 99;

Thence southeasterly along the easterly line of subplot No. 99 a distance of about 72.88 ft. to the place of beginning, containing approximately 1438 sq ft., but subject to all legal highways.

Land in red & yellow shade purchased  
 For part sold (in red shade) see sheet 31

(15)

Scale 1"=50'



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of subplot No. 100 in Averill and Bradford's Allotment of a part of Original Brooklyn Township Lot No. 70, as shown in the recorded plat of said allotment in Volume 6, page 4 of Cuyahoga County record of maps, and bounded and described as follows:

Beginning at a point in the northerly line of Lorain Avenue (60 ft wide) at its intersection with the westerly line of said subplot 100;

Thence northwesterly along the line of land now or formerly owned by Mary Ferguson a distance of about 37.26 feet to a point, which point is northerly a distance of 43.5 feet at right angles to the northerly line of Lorain Avenue (66 feet wide), or the easterly prolongation thereof;

Thence easterly and parallel with the northerly line of Lorain Avenue (66 feet wide) or the easterly prolongation thereof and distant therefrom 43.5 feet a distance of about 45.79 feet to the westerly line of land now or formerly owned by Louis and Annie Ralofski;

Thence southeasterly along the westerly line of land now or formerly owned by Louis and Annie Ralofski a distance of about 14.97 feet to the northerly line of Lorain Avenue, 60 feet wide;

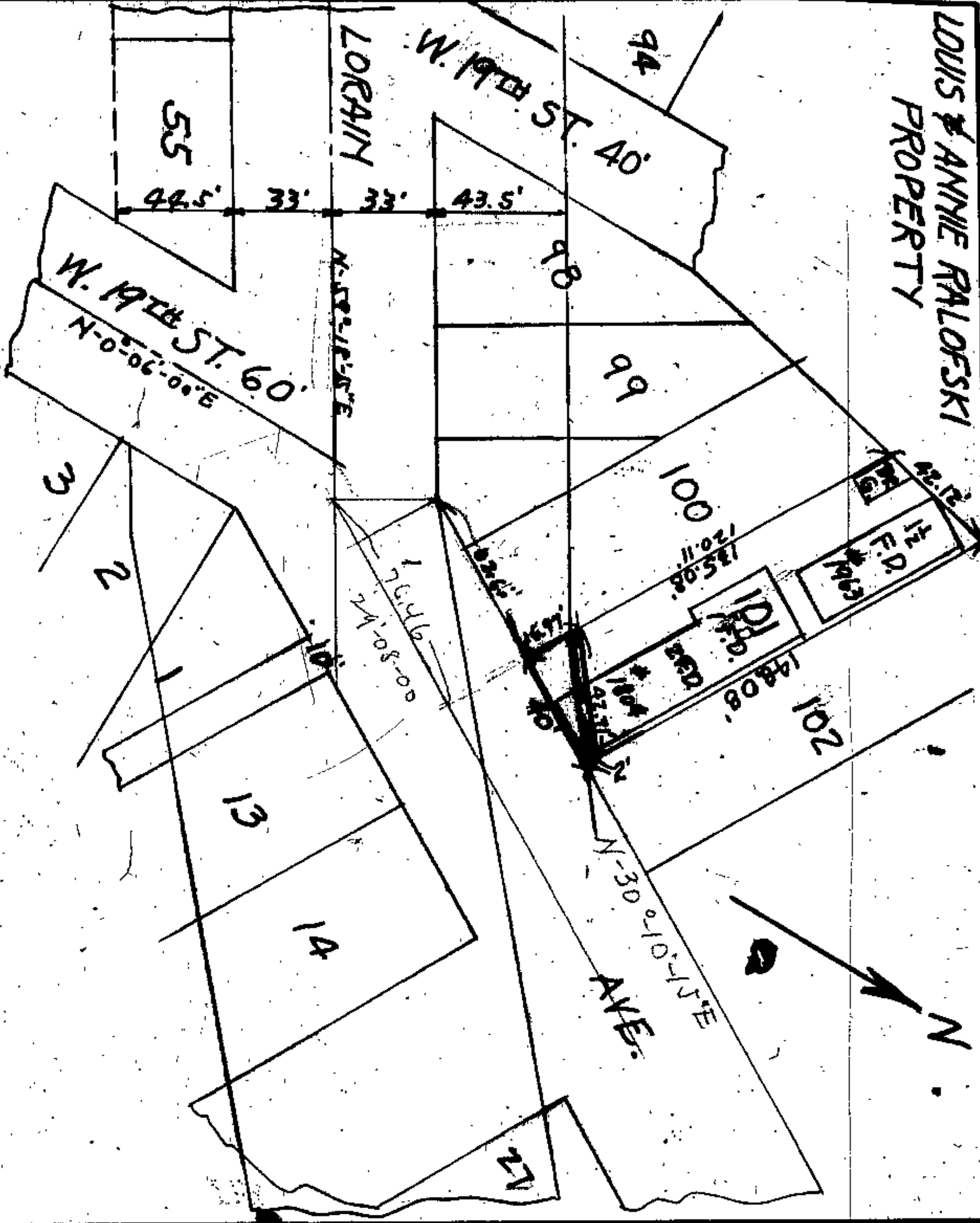
Thence westerly along the northerly line of Lorain Avenue (60 feet wide) a distance of about 40 feet to the place of beginning, containing approx. 1044.6 sq ft., but subject to all legal highways.

(16)

Scale 1"=50'



**LOUIS & ANNIE PALOFSKI  
PROPERTY**



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being part of Sublot Number 101 of Averill and Bradford's Grove Allotment of part of original Brooklyn Township lot No. 70 as shown by the recorded plat of said allotment in Vol. 6 of Maps, Page 4 of Cuyahoga County Records, and further bounded and described as follows:  
Beginning at the southwest corner of said subplot No. 101 which is also the north-westerly line of Lorain Avenue (66 feet wide);

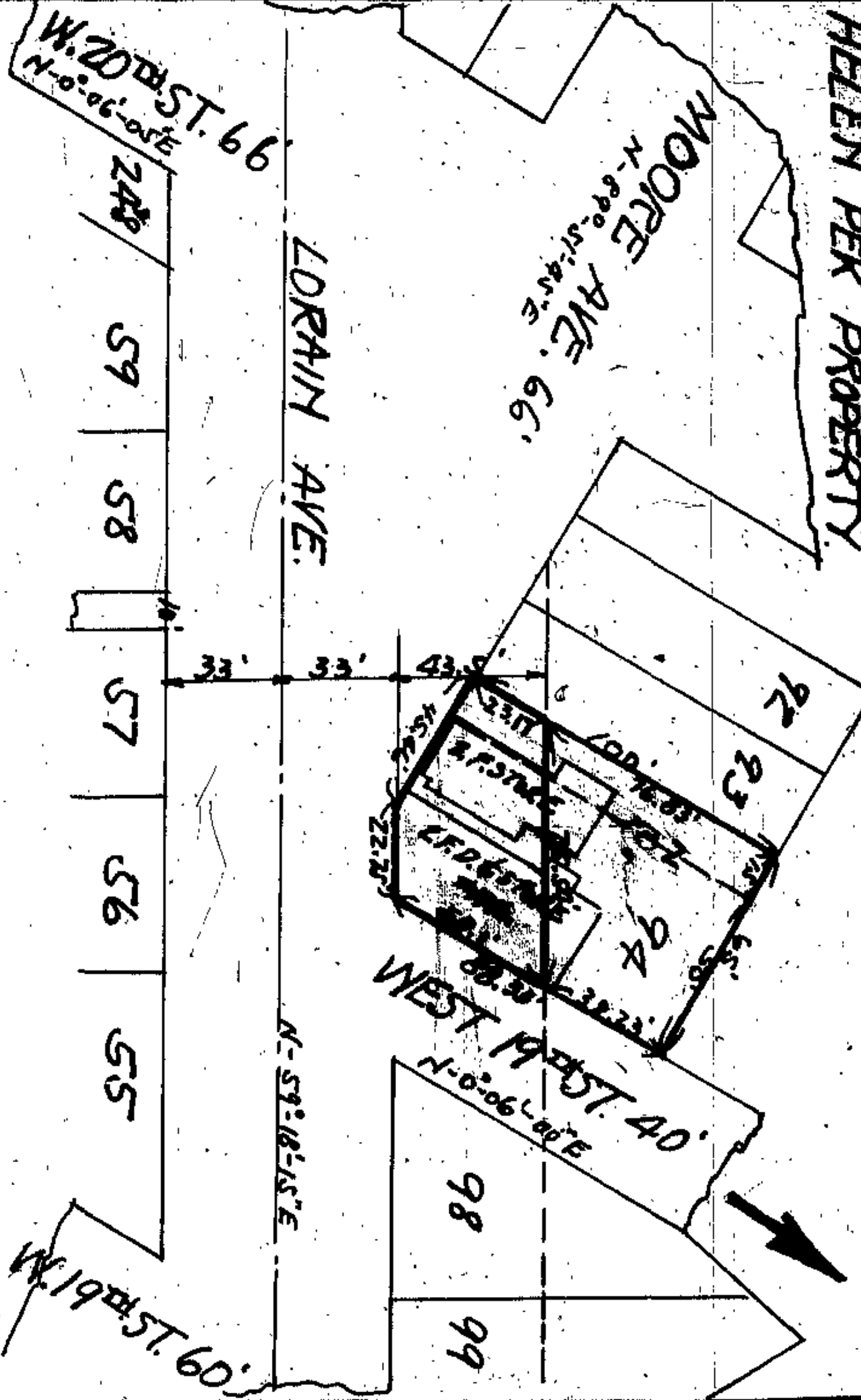
Thence northwesterly along the line of said subplot No. 101 a distance of 16.87 feet;  
Thence westerly a distance of 42.71 feet to the southeasterly line of said subplot #101;  
Thence southeasterly along said line a distance of 2.0 feet to the southeast corner of said subplot and which is also the northwesterly line of said Lorain Avenue;  
Thence southerly along the said northwesterly line of Lorain Avenue a distance of 40.0 feet to the place of beginning, be the same more or less but subject to all legal highways.

*Done at  
Transfer det's*

Scale-1"=50'

(11)

**HELEN PEK PROPERTY**



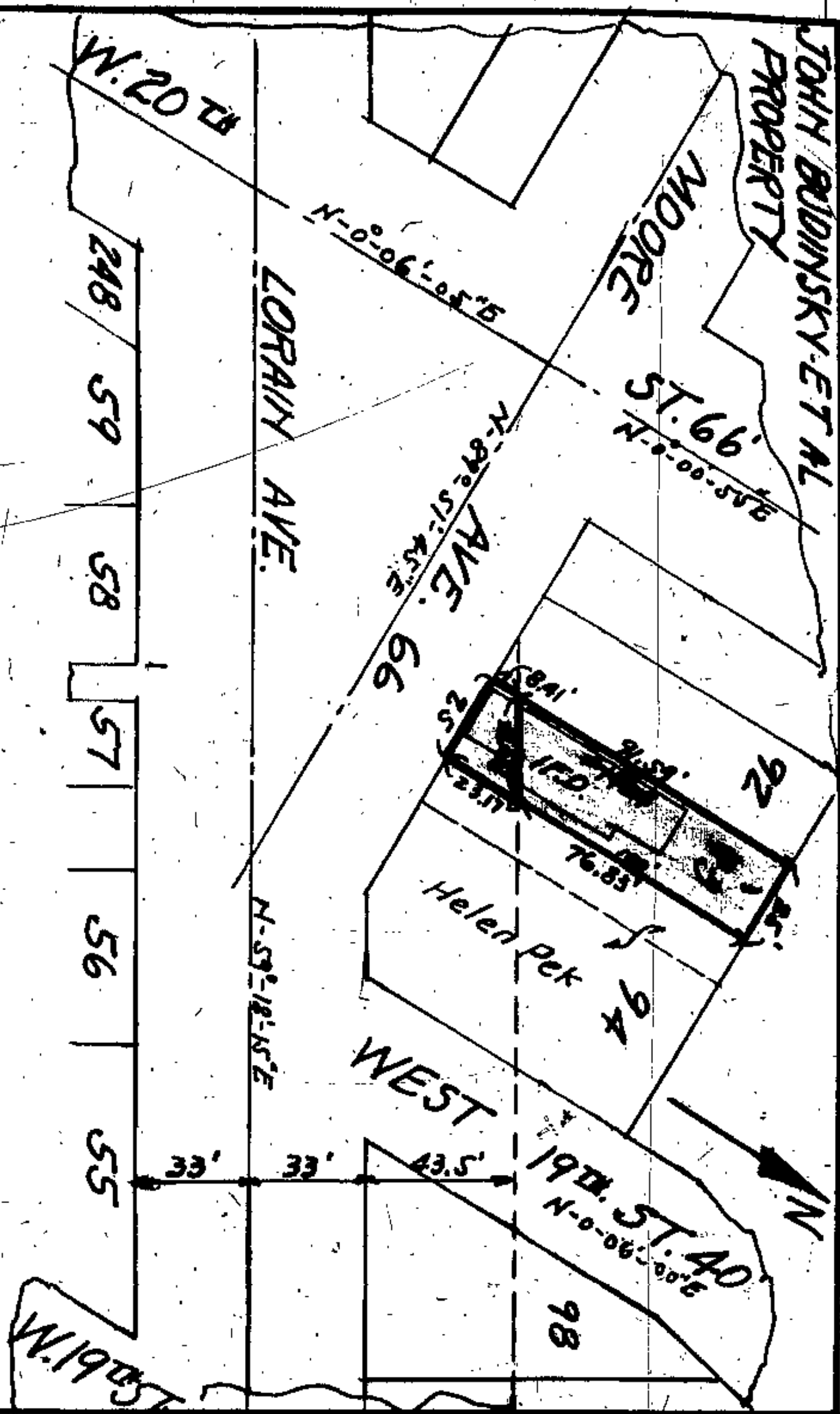
Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being all of subplot No. 94 and the easterly 15 feet of subplot No. 93 in Averill and Bradford's Allotment of a part of Original Brooklyn Township lot No. 70 as shown in the recorded plat of said Allotment in Volume 6, page 4, of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the northerly line of Lorain Avenue (66 feet wide) at its intersection with the westerly line of West 19th Street;  
Thence westerly along the northerly line of Lorain Avenue a distance of about 22.75 feet to the northerly line of Moore Avenue S.W., so-called;  
Thence westerly along the northerly line of Moore Ave. S.W. a distance of about 45.46 feet to the easterly line of land now or formerly owned by John Budinsky et al;  
Thence northerly along the easterly line of land now or formerly owned by John Budinsky et al a distance of about 100 feet to the northerly line of said subplot No. 93;  
Thence easterly along the northerly line of said Sublot Nos. 93 and 94 a distance of about 65 feet to the westerly line of West 19th Street;  
Thence southerly along the westerly line of West 19th Street a distance of about 88.33 feet to the place of beginning, containing approximately 6386 sq ft., but subject to all legal highways.

*Done at  
Transfer 6-15-31  
Rec'd Vol 4152-513*

Scale-1"=50'

(12)



Situated in the City of Cleveland, County of Cuyahoga, and State of Ohio, and known as being the westerly 25 feet of subplot No. 93 in Averill and Bradford's Allotment of a part of Original Brooklyn Township lot No. 70, as shown in the recorded plat of said Allotment in Volume 6, Page 4 of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning at a point in the northerly line of Moore Ave. S.W. at its intersection with the westerly line of subplot No. 93;

Thence northerly along the westerly line of subplot No. 93 a distance of about 100 feet to the northerly line of subplot No. 93;

Thence easterly along the northerly line of subplot No. 93 a distance of about 25 feet to the westerly line of land now or formerly owned by Helen Peck;

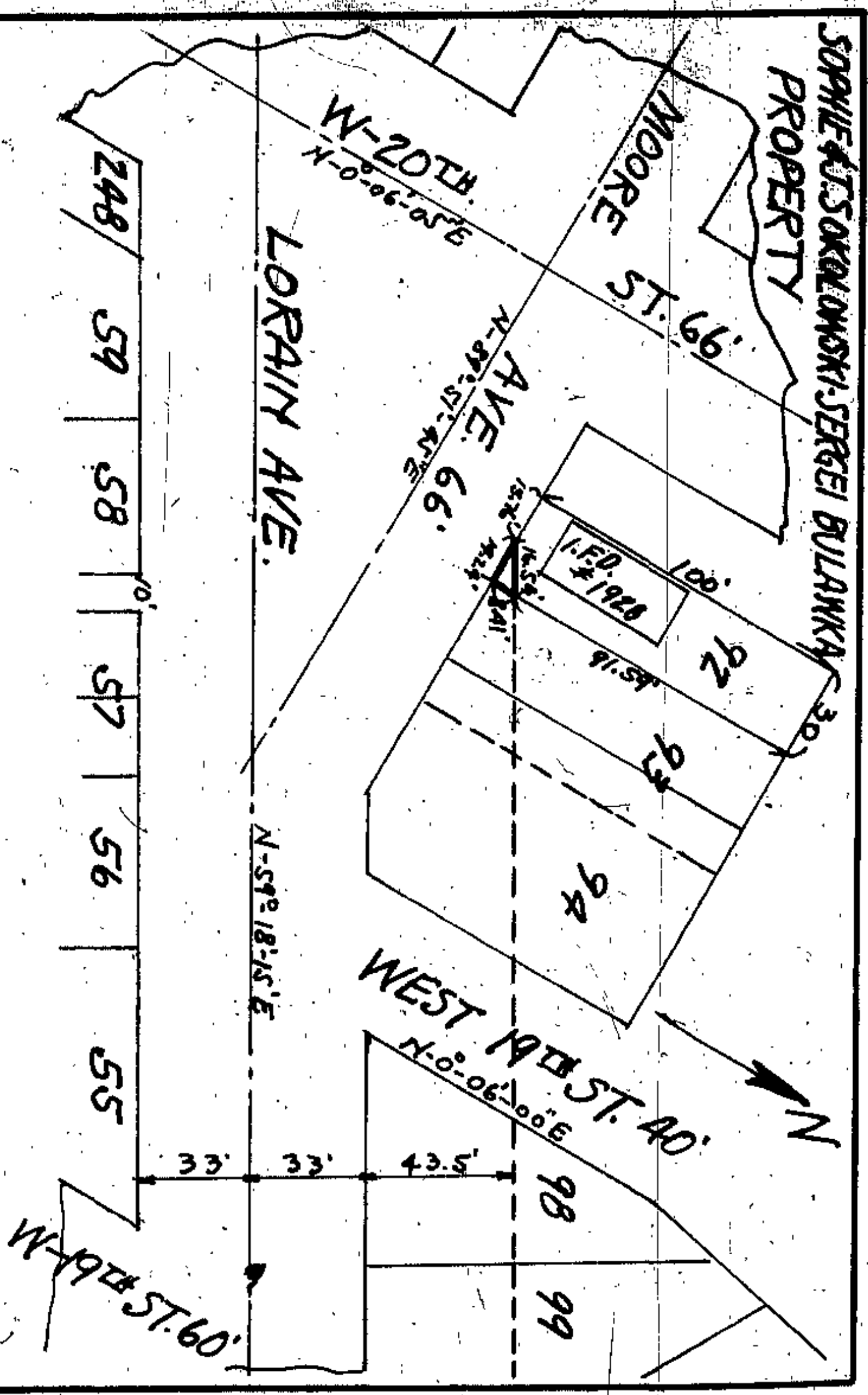
Thence southerly along the westerly line of land now or formerly owned by Helen Peck a distance of about 100 feet to the northerly line of Moore Ave. S.W.;

Thence westerly along the northerly line of Moore Ave. S.W. a distance of about 25 feet to the place of beginning, containing approximately 2500 sq. ft. but subject to all legal highways.

*Direct Transfer 1-5-31*

49

Scale - 1" = 50'



Situated in the City of Cleveland, County of Cuyahoga, and State of Ohio, and known as being a part of Sublot 92 in the Averill and Bradford's Grove Allotment of a part of Original Brooklyn Township Lot No. 70, as shown in the recorded plat of said allotments, in Volume 6, Page 4, of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the northerly line of Moore Avenue at its intersection with the easterly line of Sublot No. 92;

Thence northerly along the easterly line of Sublot No. 92 a distance of about 84.1 feet to a point in said line, which point is northerly from and at right angles to the center line of Lorain Avenue a distance of 76.5 feet;

Thence westerly parallel with the center line of Lorain Avenue and 76.5 feet distant therefrom, a distance of about 16.54 feet to the northerly line of Moore Avenue;

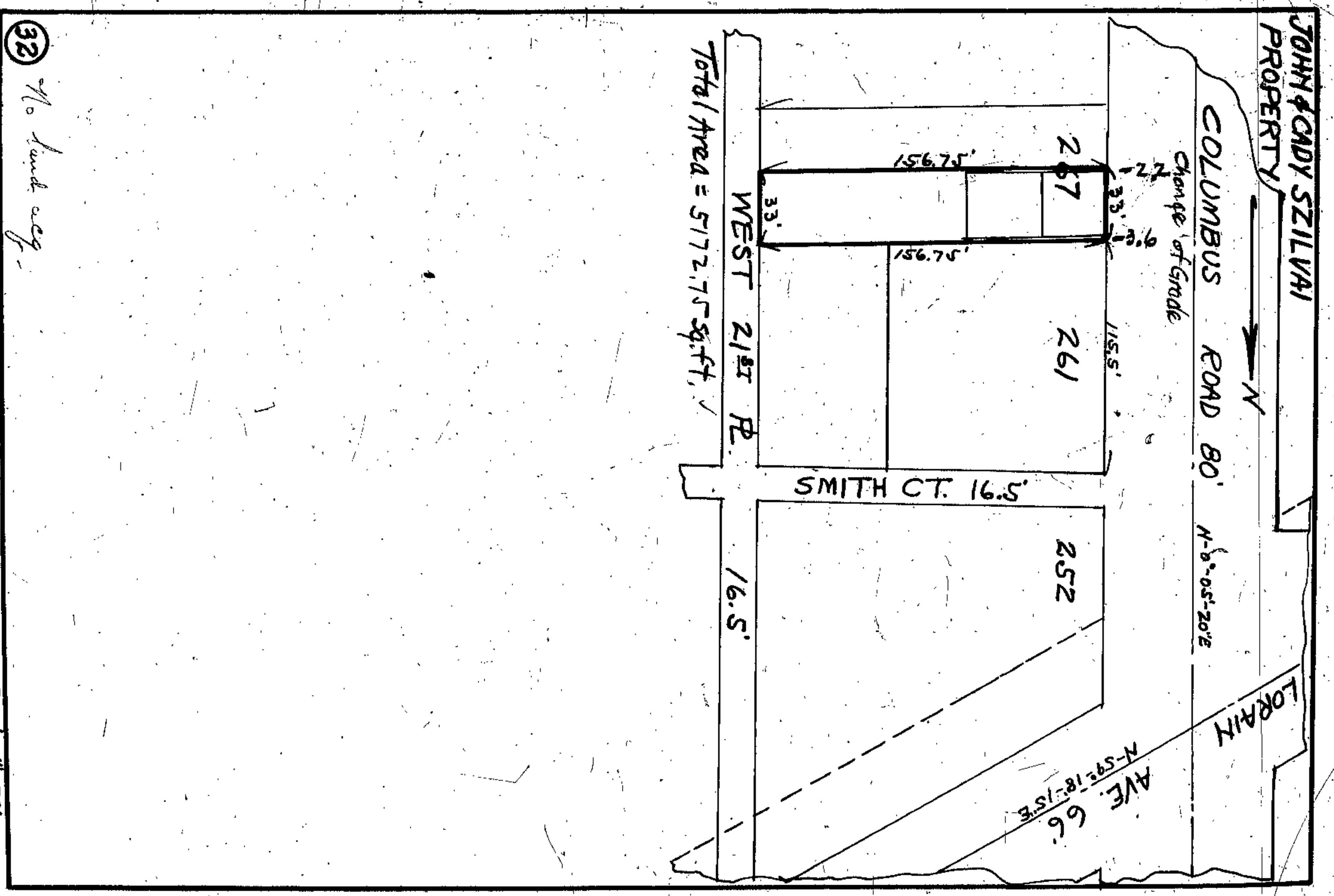
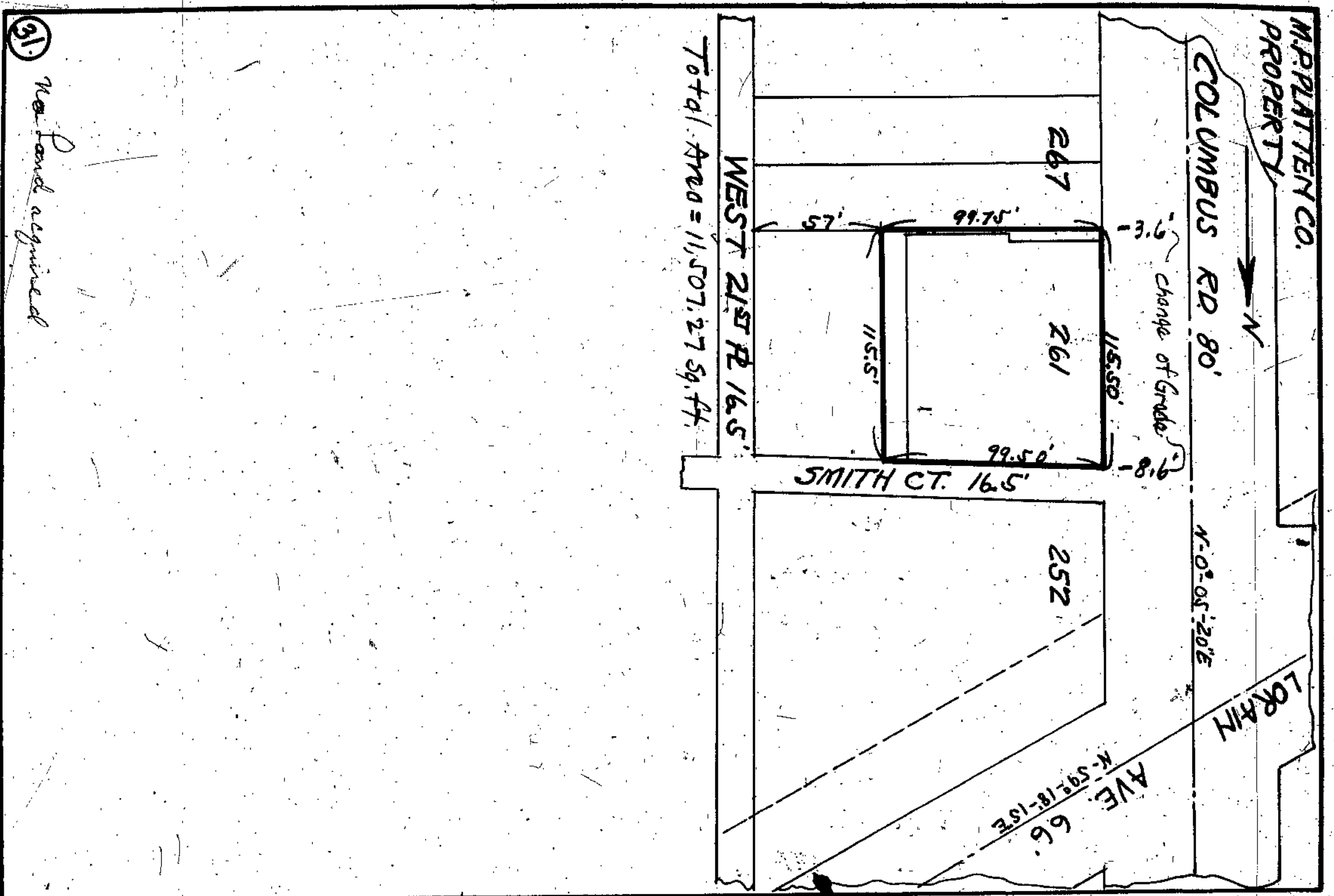
Thence easterly along the northerly line of Moore Avenue a distance of about 14.24 feet to the place of beginning, containing approximately 60 sq. ft. but subject to all legal highways.

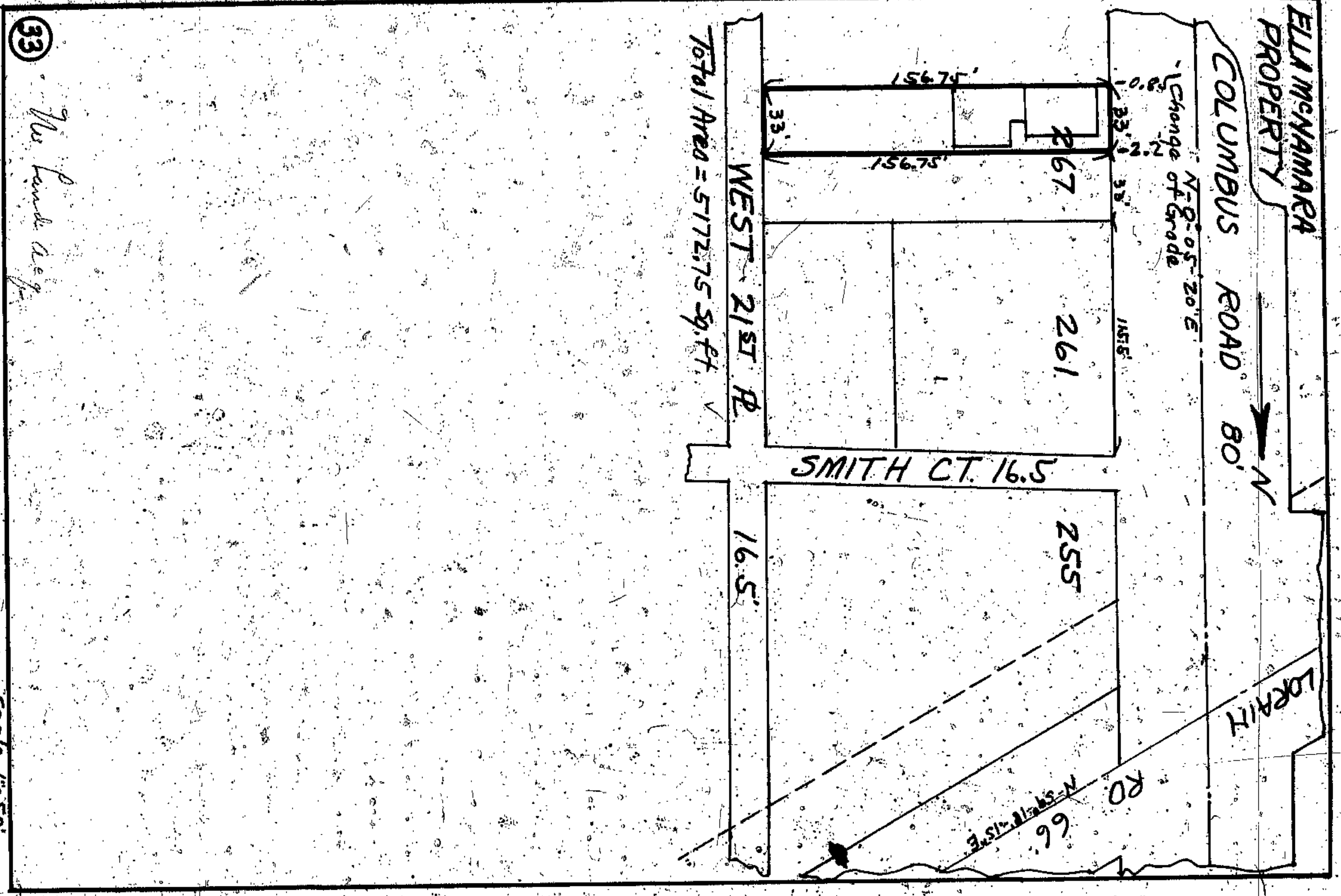
*Direct Transfer 1-5-31*

50

Scale - 1" = 50'





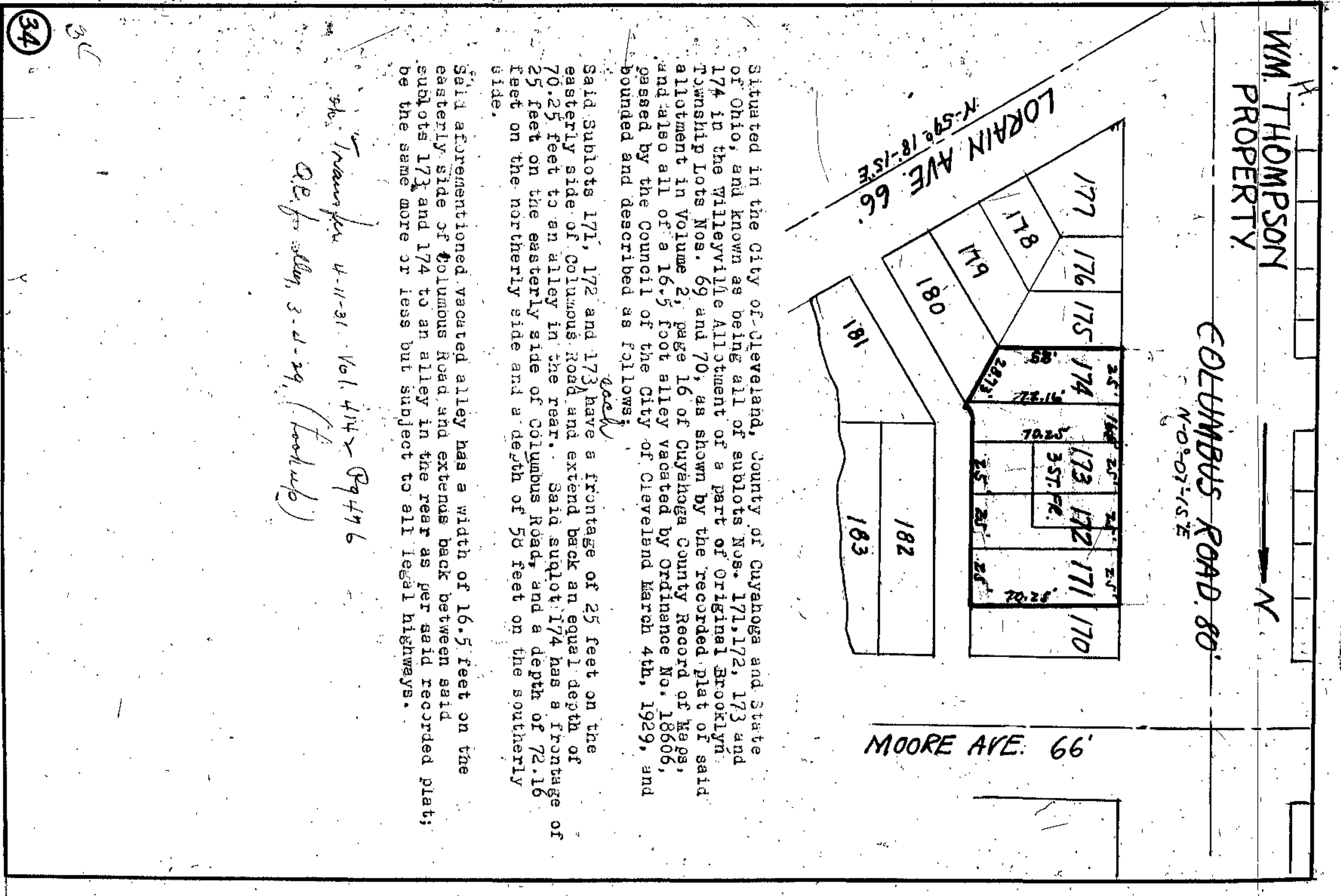


Total Area = 5172.75 Sq. Ft.

33

Ms Land Acq.

Scale 1"=50'



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being all of sublots Nos. 171, 172, 173 and 174 in the Willeyville Allotment of a part of Original Brooklyn Township Lots Nos. 69 and 70, as shown by the recorded plat of said allotment in Volume 2, page 16 of Cuyahoga County Record of Maps, and also all of a 16.5 foot alley vacated by Ordinance No. 18606, and passed by the Council of the City of Cleveland March 4th, 1929, and bounded and described as follows:

Said Sublots 171, 172 and 173 have a frontage of 25 feet on the easterly side of Columbus Road and extend back an equal depth of 70.25 feet to an alley in the rear. Said sublot 174 has a frontage of 25 feet on the easterly side of Columbus Road, and a depth of 72.16 feet on the northerly side and a depth of 58 feet on the southerly side.

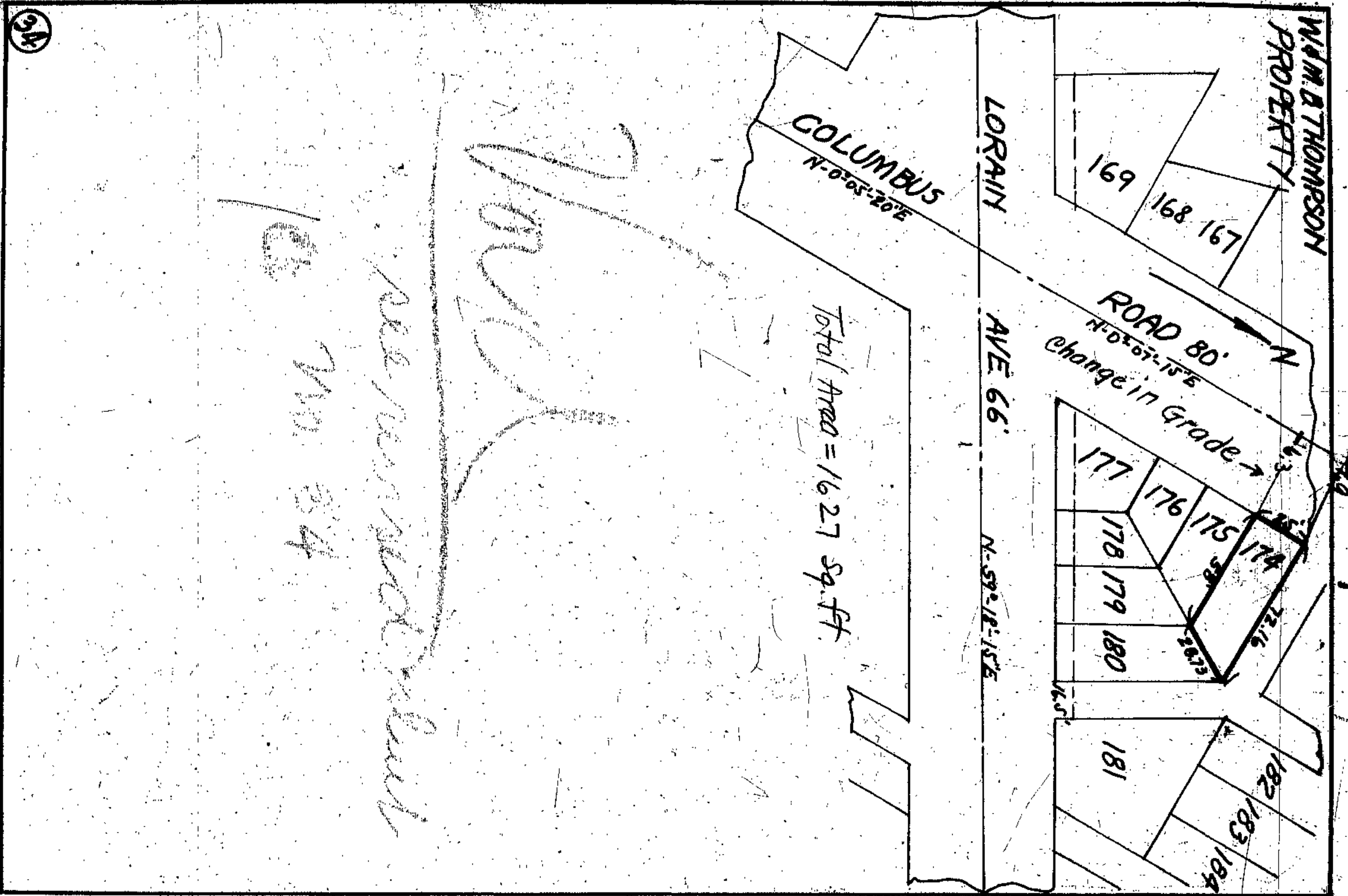
Said aforementioned vacated alley has a width of 16.5 feet on the easterly side of Columbus Road and extends back between said sublots 173 and 174 to an alley in the rear as per said recorded plat; be the same more or less but subject to all legal highways.

the Transfer 4-11-31 Vol. 414 Pg 496  
 OE for Allen, 3-2-29 (book 102)

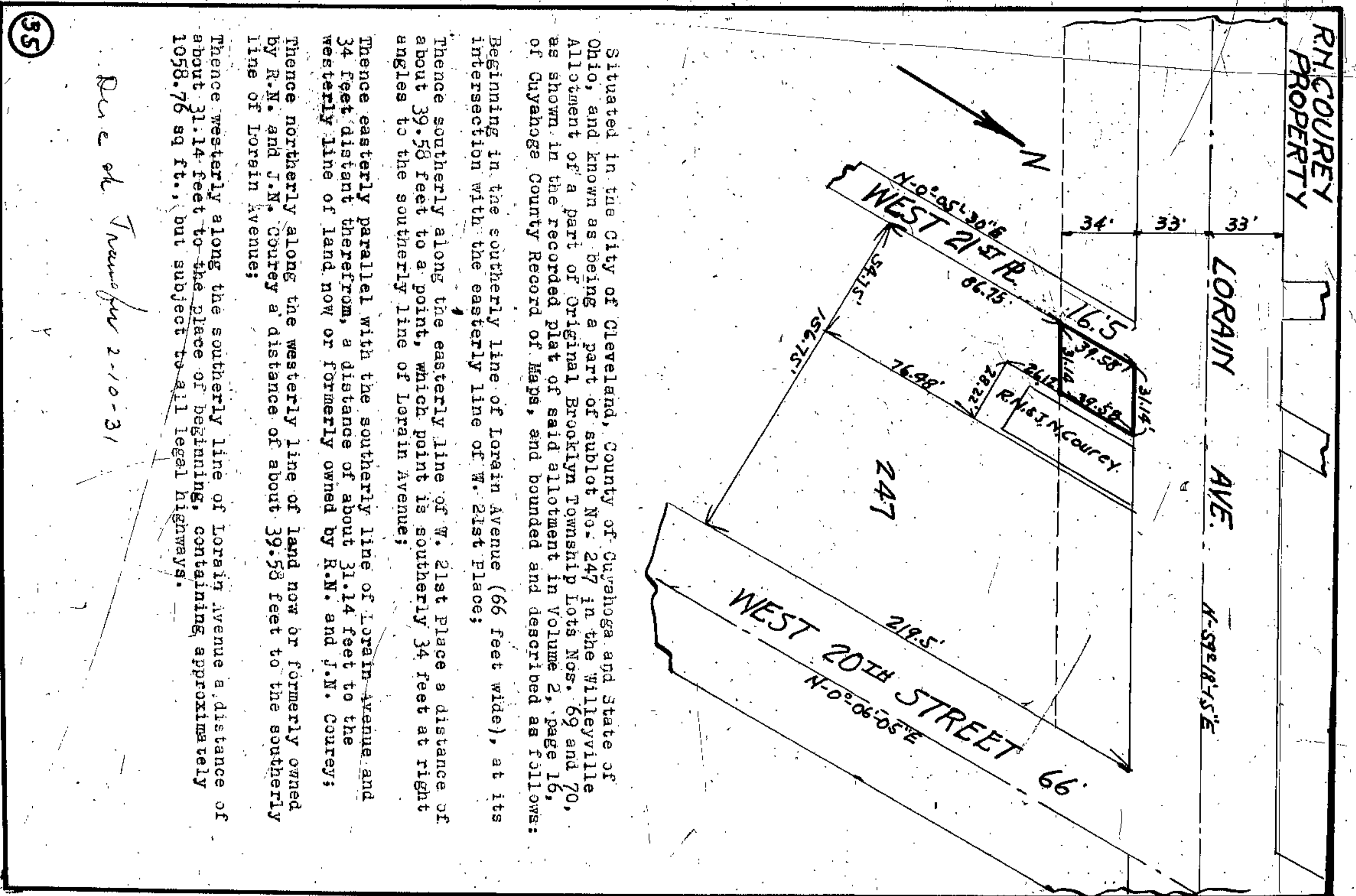
34

3C





SCALE 1"=50'



Situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being a part of subplot No. 247 in the Willeyville Allotment of a part of Original Brooklyn Township Lots Nos. 69 and 70, as shown in the recorded plat of said allotment in Volume 2, page 16, of Cuyahoga County Record of Maps, and bounded and described as follows:

Beginning in the southerly line of Lorain Avenue (66 feet wide), at its intersection with the easterly line of W. 21st Place;

Thence southerly along the easterly line of W. 21st Place a distance of about 39.58 feet to a point, which point is southerly 34 feet at right angles to the southerly line of Lorain Avenue;

Thence easterly parallel with the southerly line of Lorain Avenue and 34 feet distant therefrom, a distance of about 31.14 feet to the westerly line of land now or formerly owned by R.N. and J.N. Courey;

Thence northerly along the westerly line of land now or formerly owned by R.N. and J.N. Courey a distance of about 39.58 feet to the southerly line of Lorain Avenue;

Thence westerly along the southerly line of Lorain Avenue a distance of about 31.14 feet to the place of beginning, containing approximately 1058.76 sq ft., but subject to all legal highways.

Rec'd of Transfer 2-10-31

**COUNTY CLERK**  
**(SEAL AT FOOT OF PAGE)**

Resolution Directing Clerk to advertise sale of real estate.

WHEREAS, it is the opinion of the Board of County Commissioners and the interests of the County so require that certain real estate hereinafter listed is not needed for public use; and

IT IS ORDERED, it is deemed advisable to call such real estate.

RESOLVED, that the following described real estate is not needed for public use and the sale thereof is hereby authorized. Such land is described as follows:

That situated in the City of Cleveland, County of Cuyahoga and State of Ohio, and known as being parts of Sublot Nos. 98 and 99 in Merrill and Bradford Grove Allotment as recorded in Vol. 8, Page 4 of Cuyahoga County Record of Maps:

Beginning at the intersection of the northernly line of Lorain Ave. (66 ft. wide) thence northernly along the easterly line of east 19th St. a distance of 97.82 ft. to a point which is the pivotal disc of beginning;

Thence northernly along the easterly line of east 19th St. a distance of 42.93 ft. to an angle; thence continuing along said line a distance of 51.69 ft. to the northernly line of Sublot No. 99; thence easterly along the northernly line of Sublot 99 a distance of 85.82 ft. to a corner westerly along a line parallel to the center line of Lorain Ave. and northernly therefrom 76.5 feet, a distance of 97.82 ft. to the place of beginning.

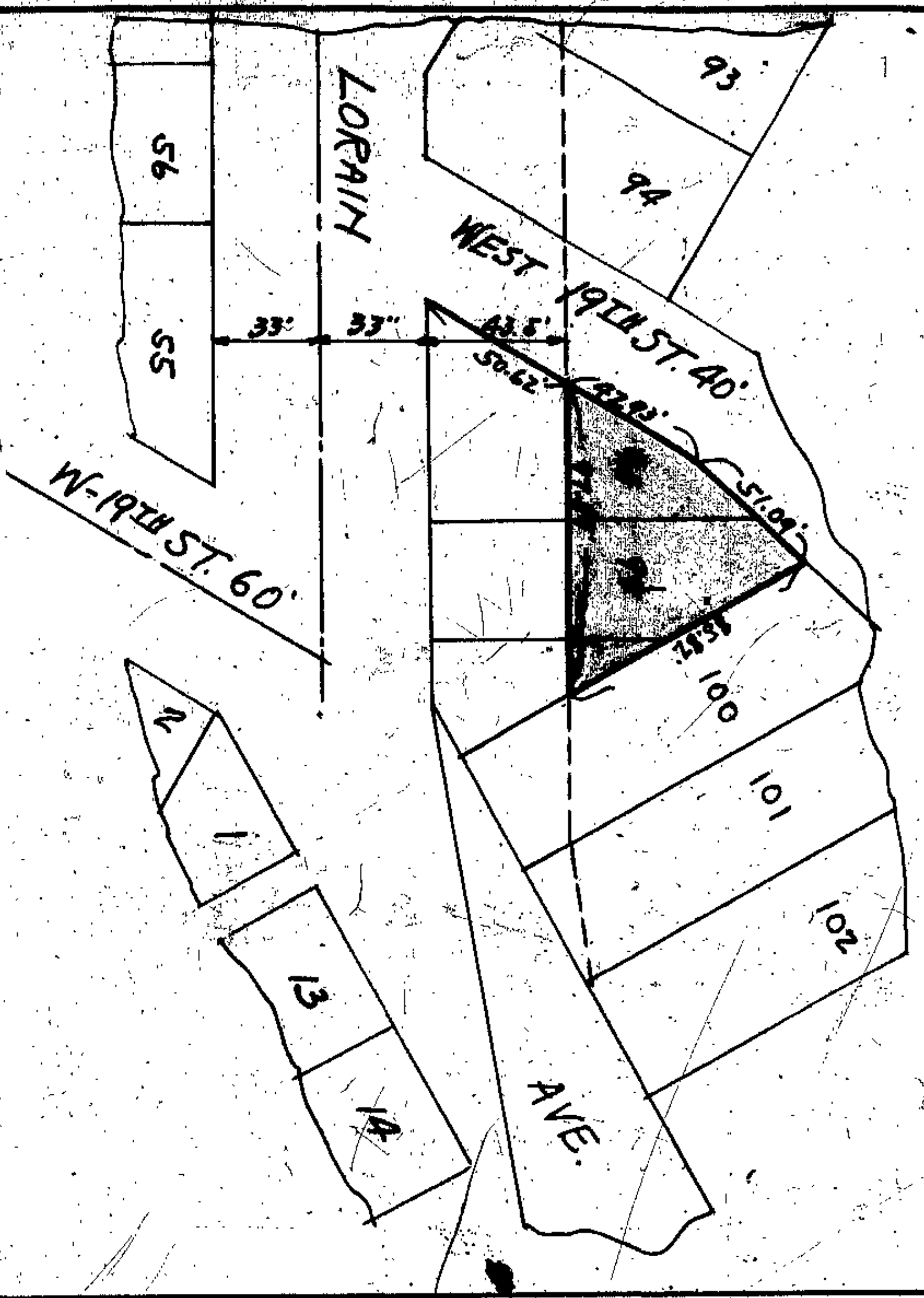
That the Clerk of this Board be and he is hereby directed to advertise said land in accordance with law.

On Motion of Commissioner Deak, seconded by Commissioner Harris, the foregoing resolution was duly adopted.

Ayes: Gorman, Harris, Cook.  
 Nays: None.

Journal 81, page 1091  
 April 27, 1931.

Resolution adopted.  
 [Signature]  
 Clerk

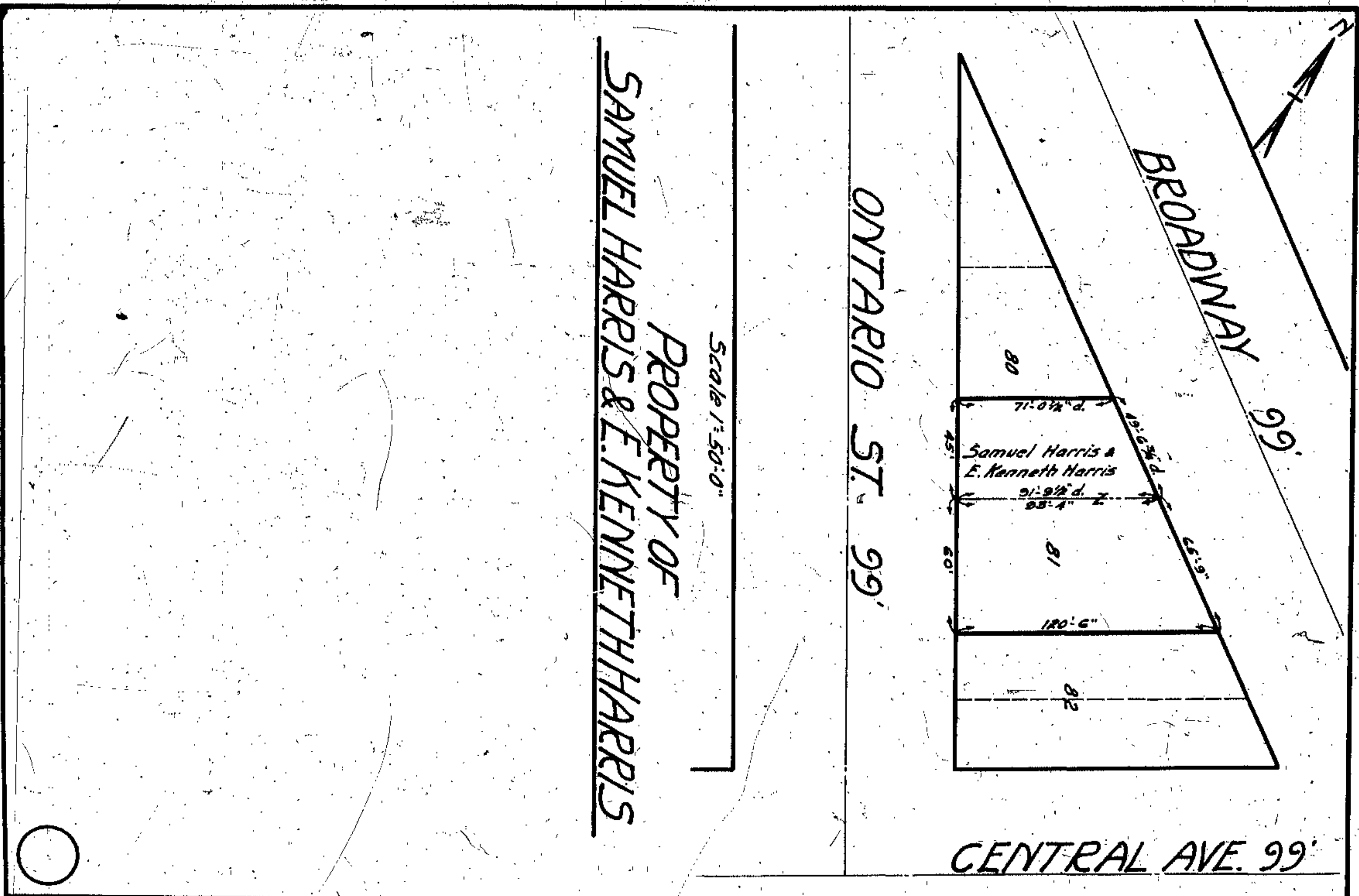
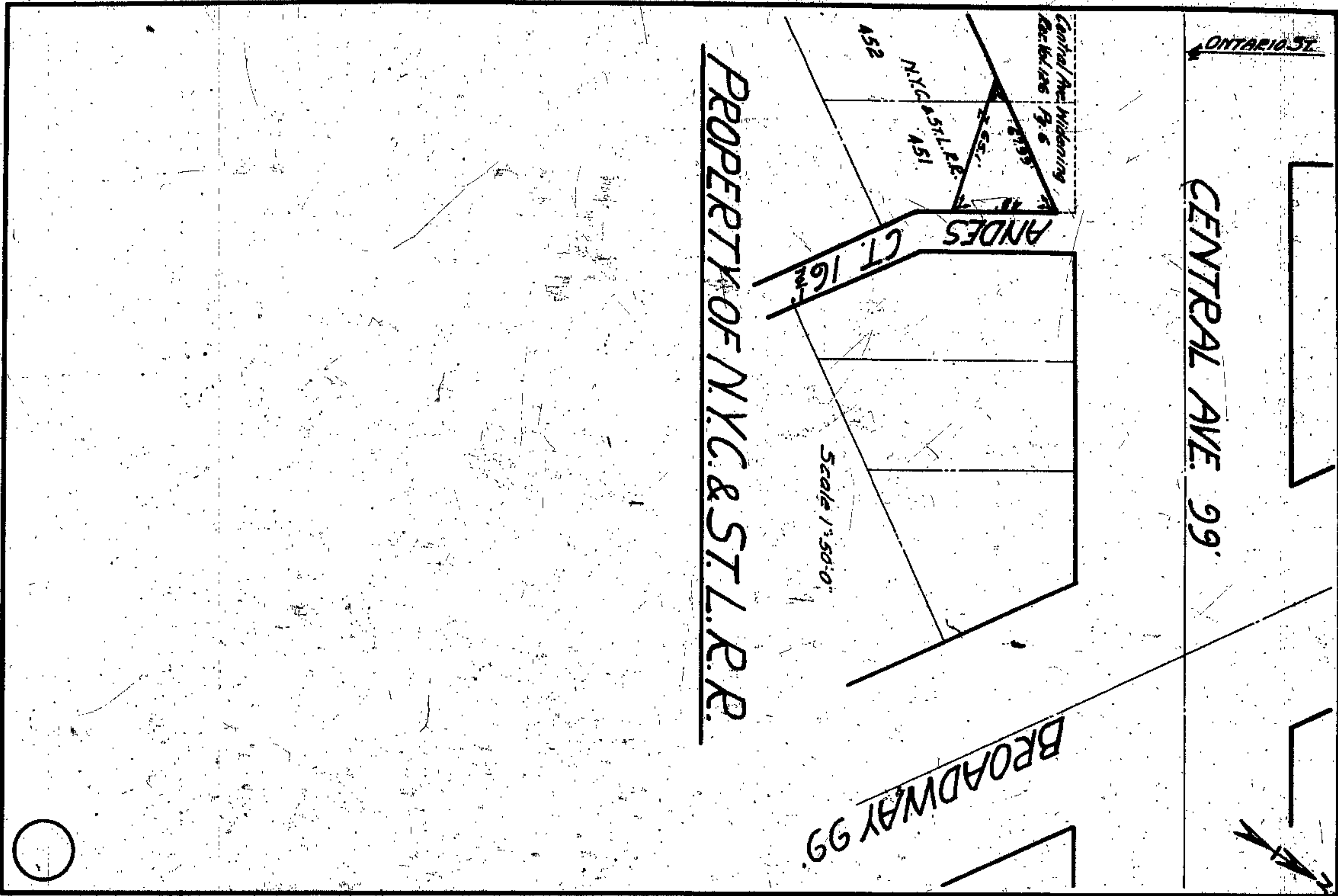


and 172d space conveyed by Board of Commissioners of Cuyahoga County to the Acumen Land Co. Vol. 4191-374

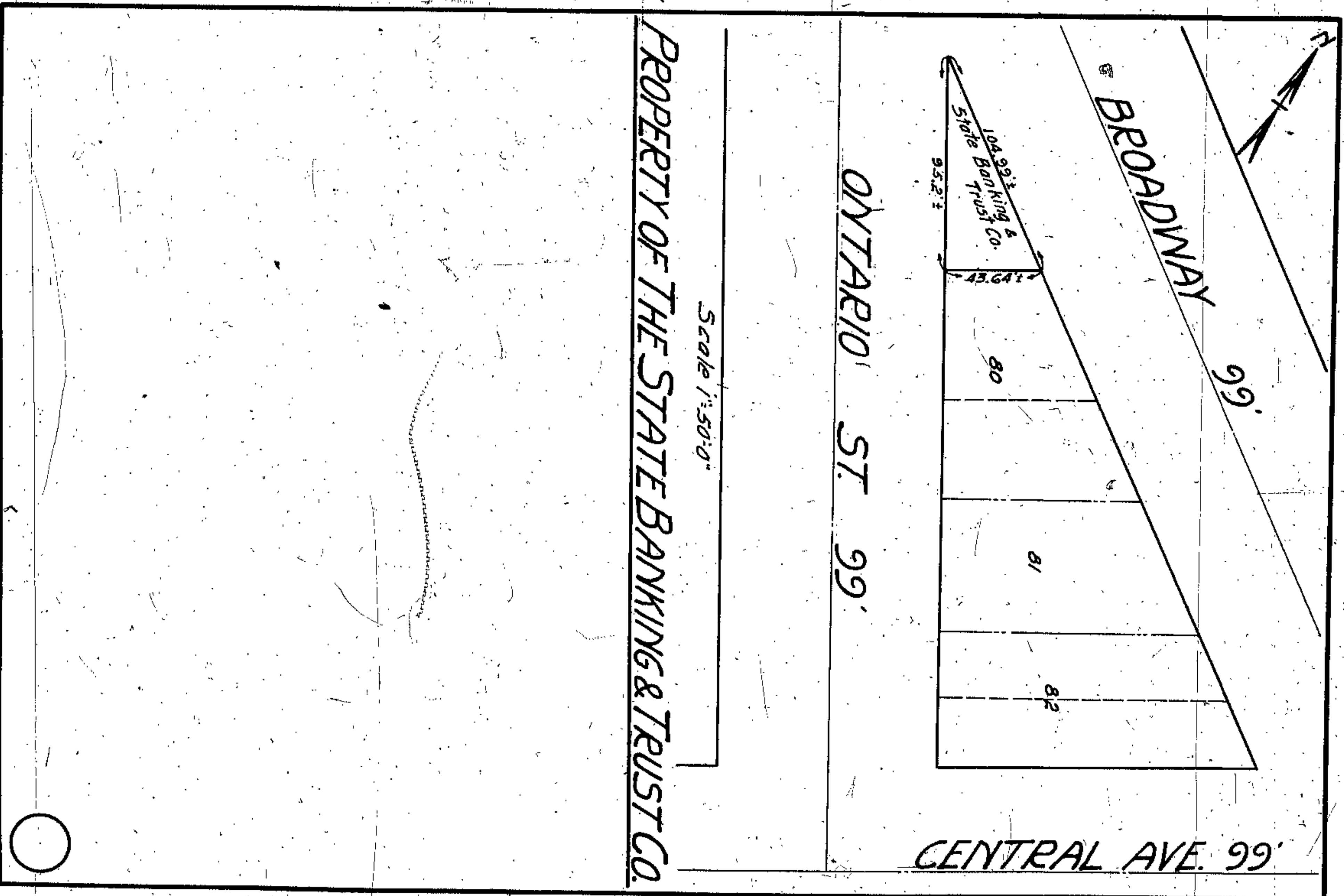
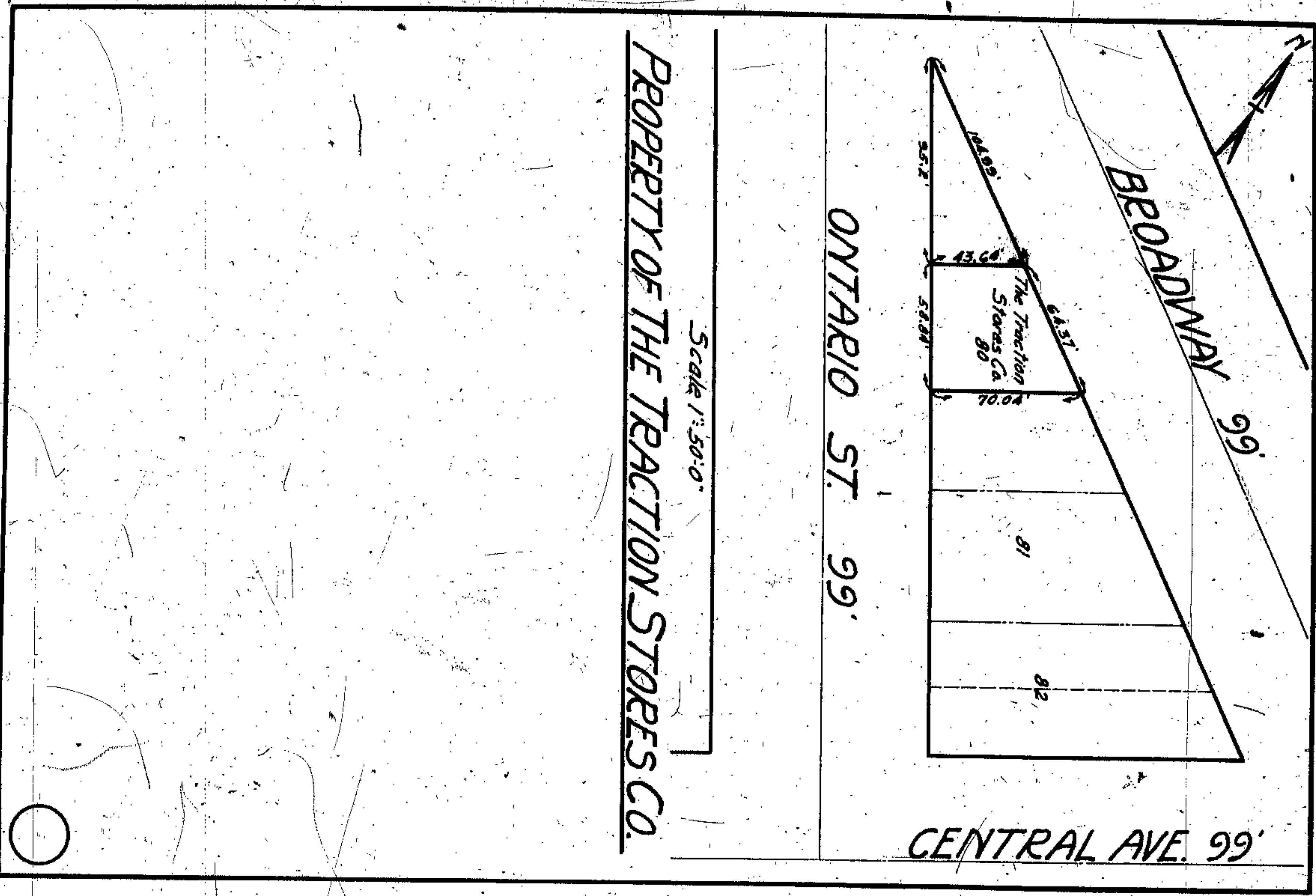
*Prop to be sold to  
 The Heinen Land Co  
 Transfer 7-29-31*

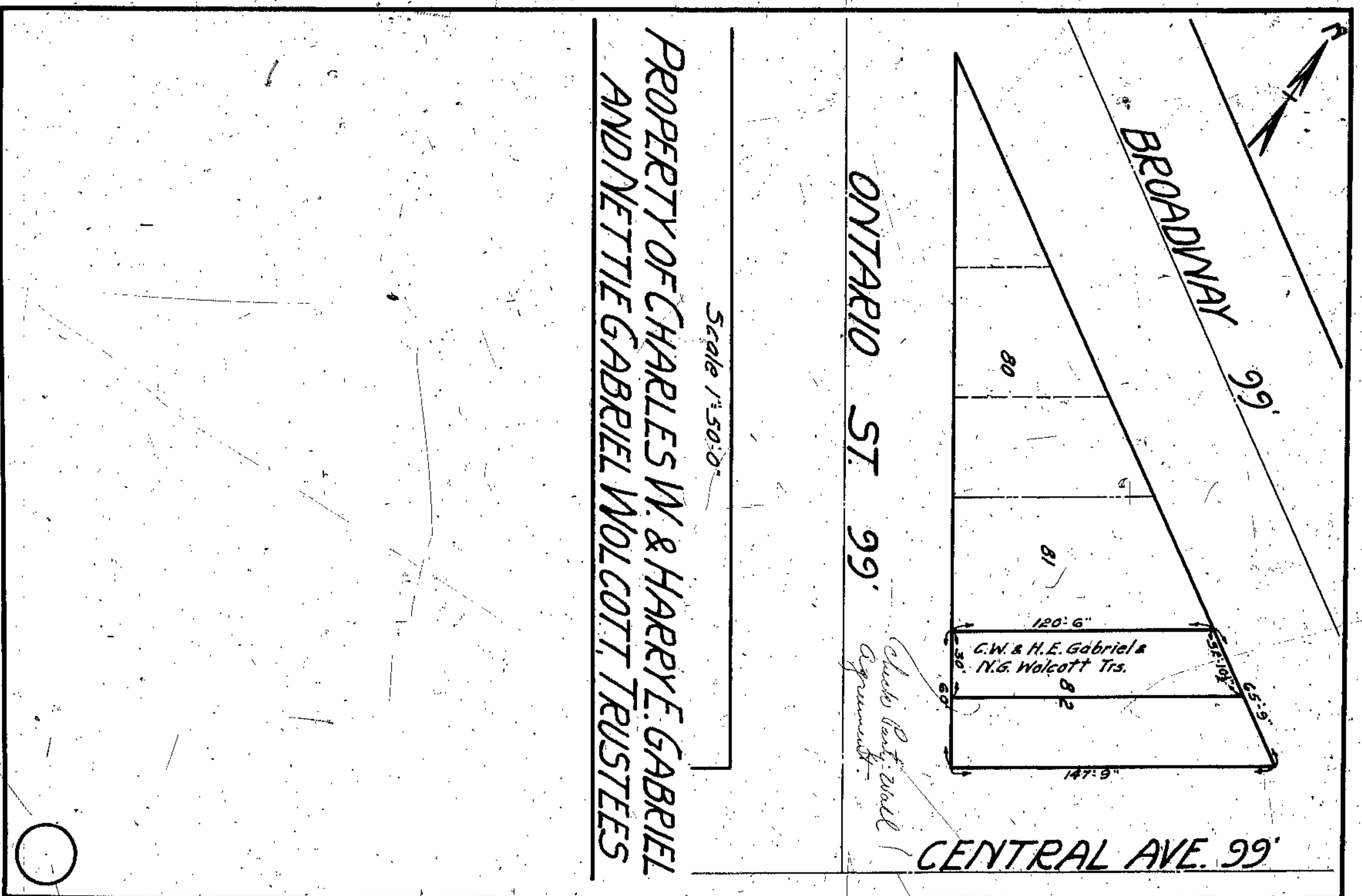
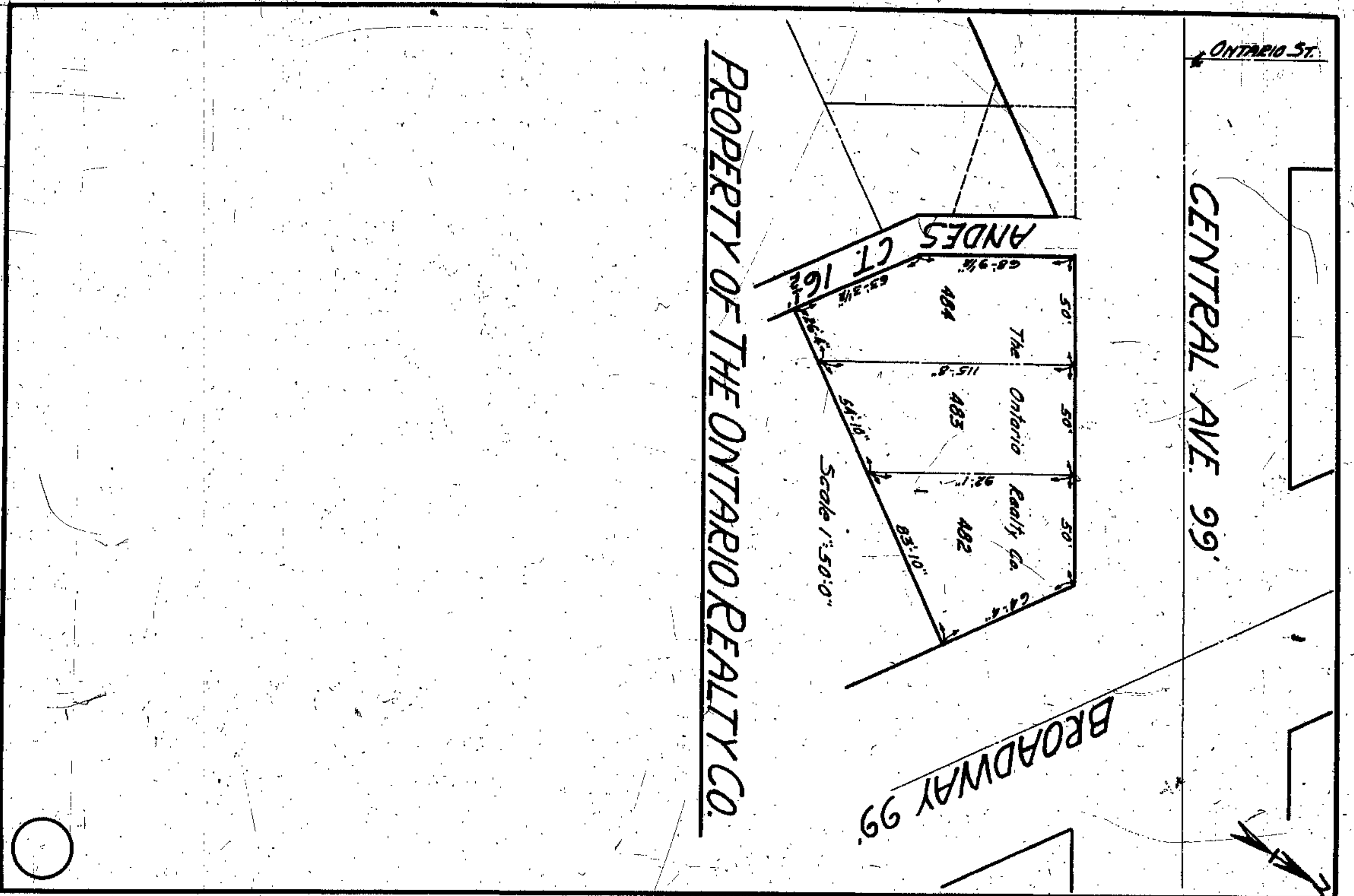








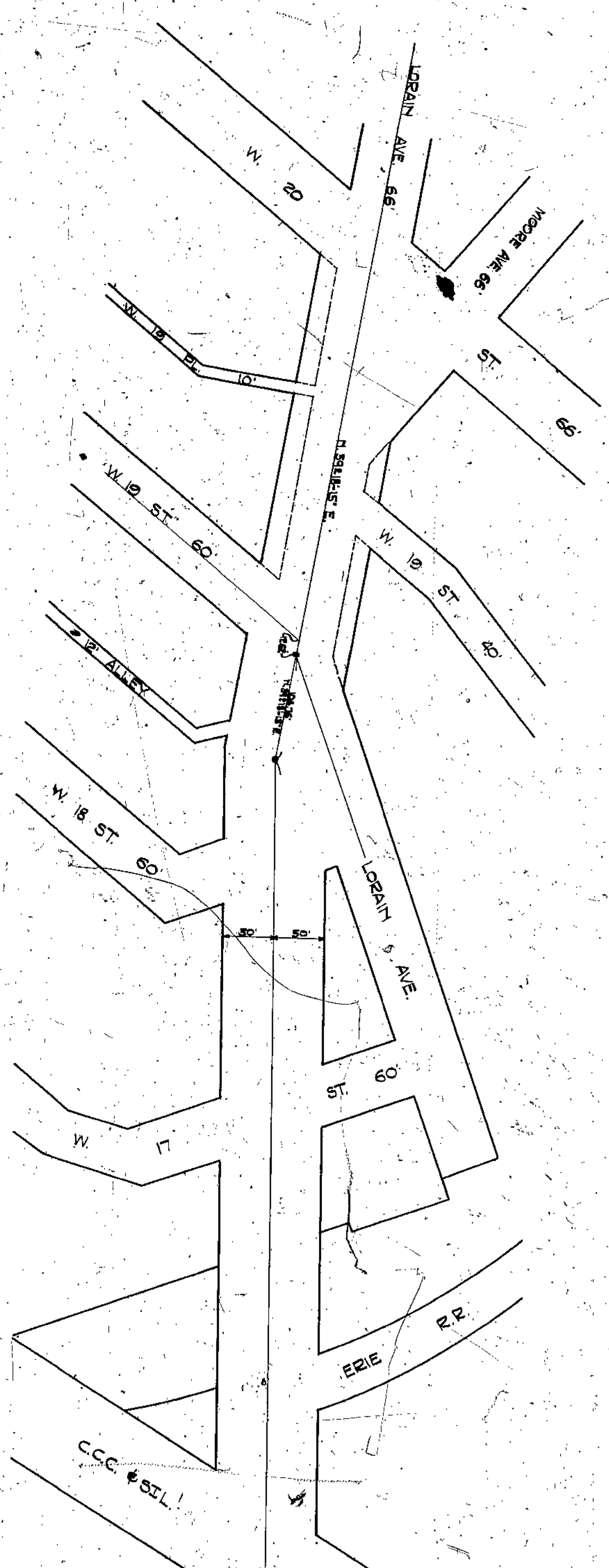


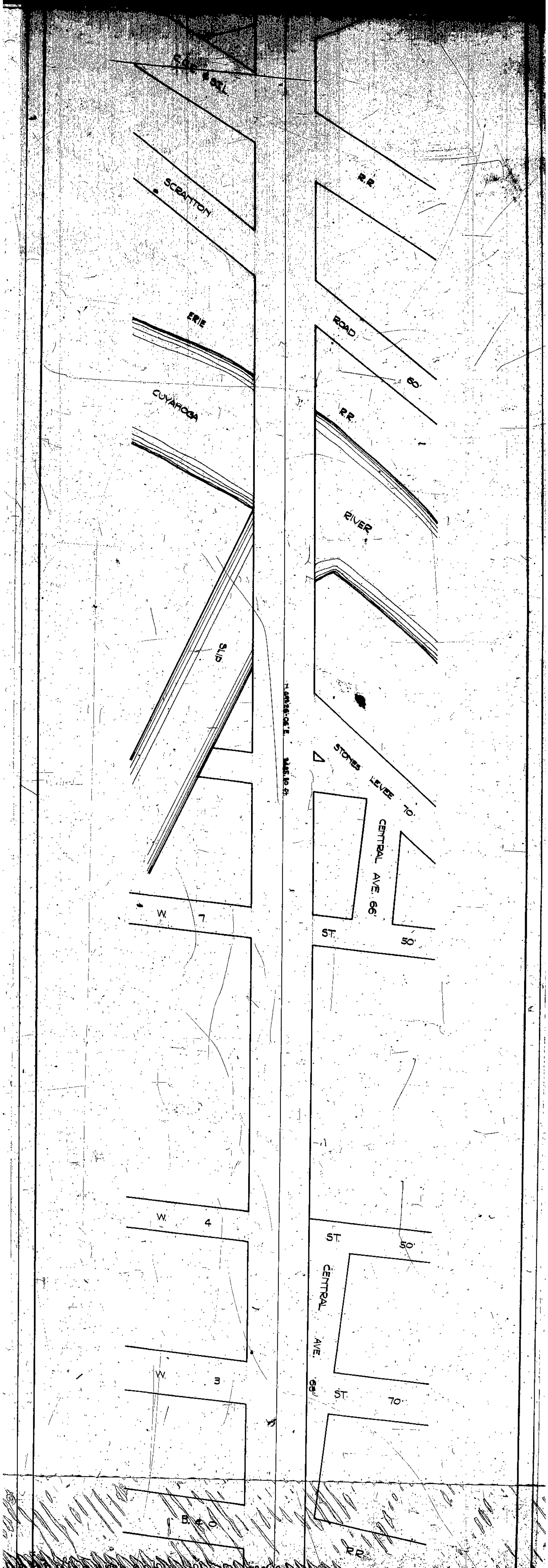




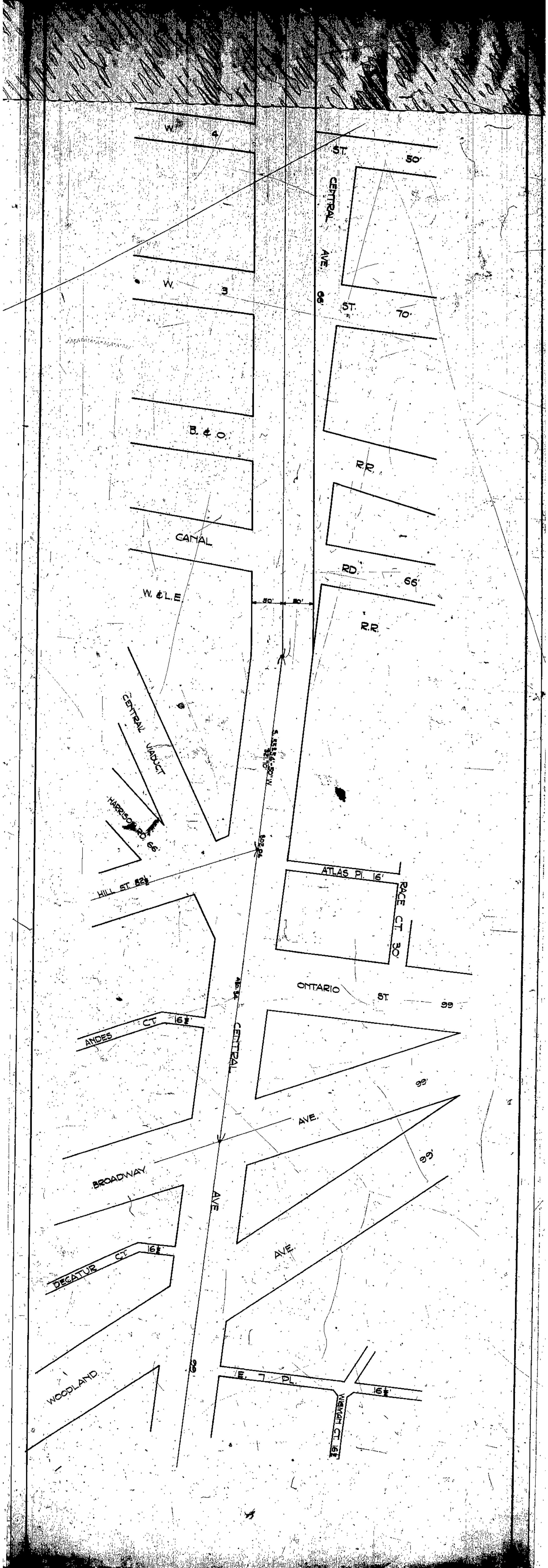
PROPOSED EXTENSION  
TO  
RAILROAD ROAD  
STREET TO BROADWAY AVE.  
JANUARY 1934

QUANTITY ENGINEER  
JANUARY 1934  
SUPERVISOR REPORT  
[Signature]

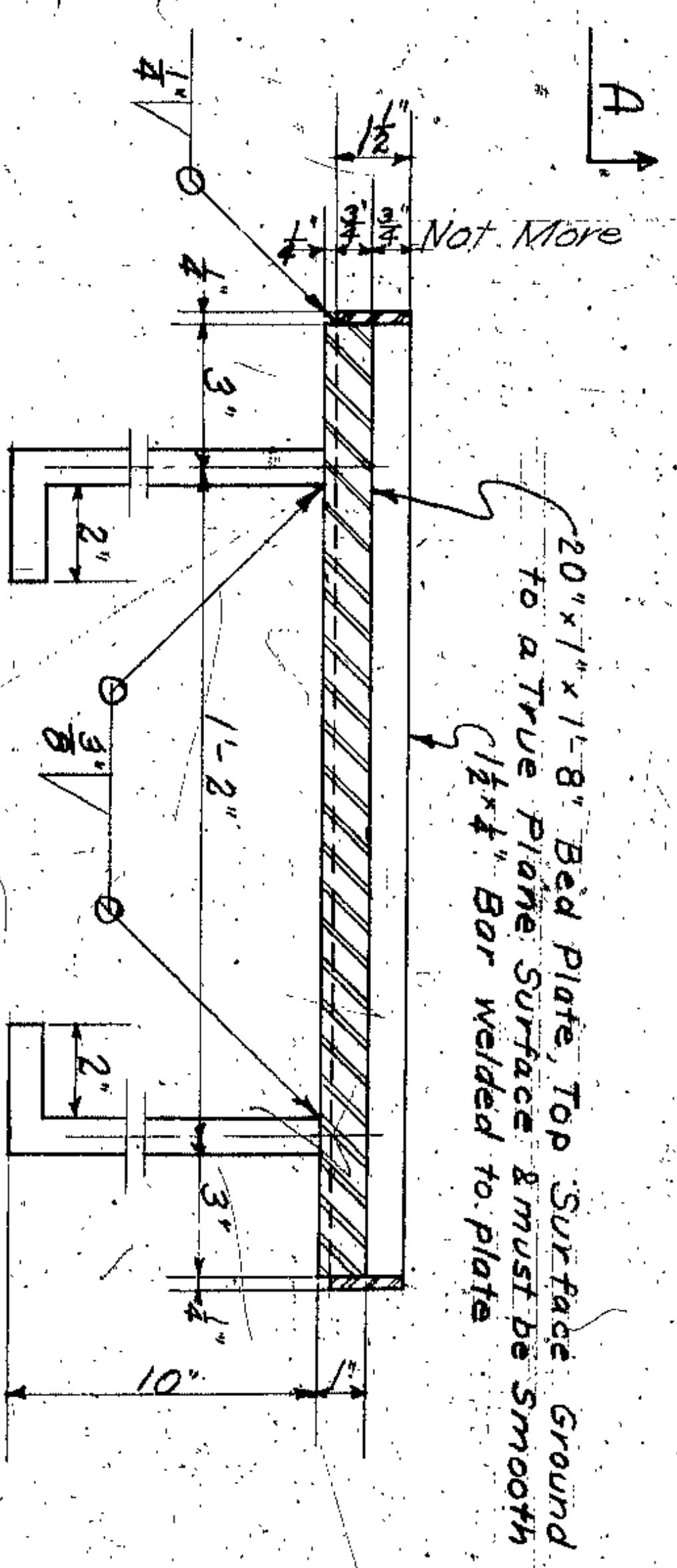








Notes: Extreme Care must be exercised to use a Welding procedure which will maintain Bed Pl. to a true plane surface. Warping of plate will be cause for rejection.



SECTION A-A

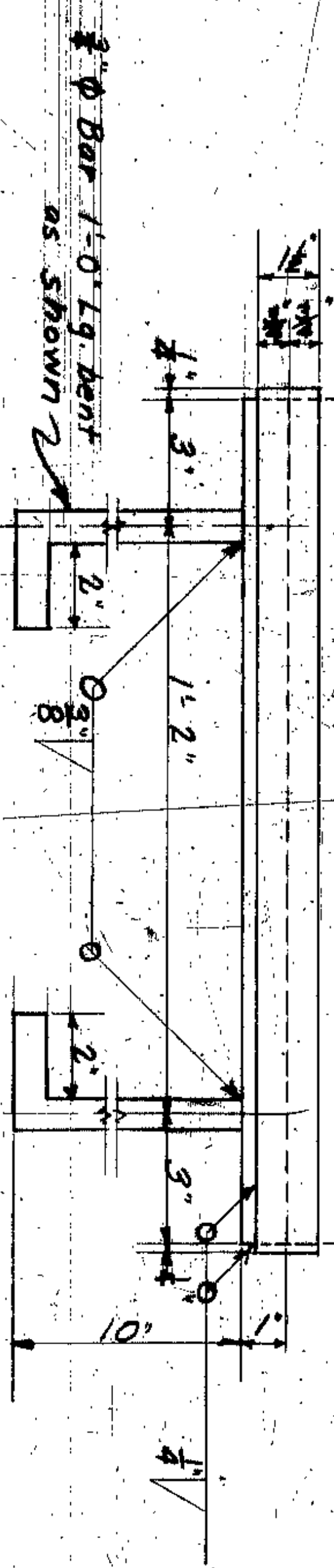
PLATE MK B

18" x 1" x 1-6" One Surface Ground to a True Plane Surface.

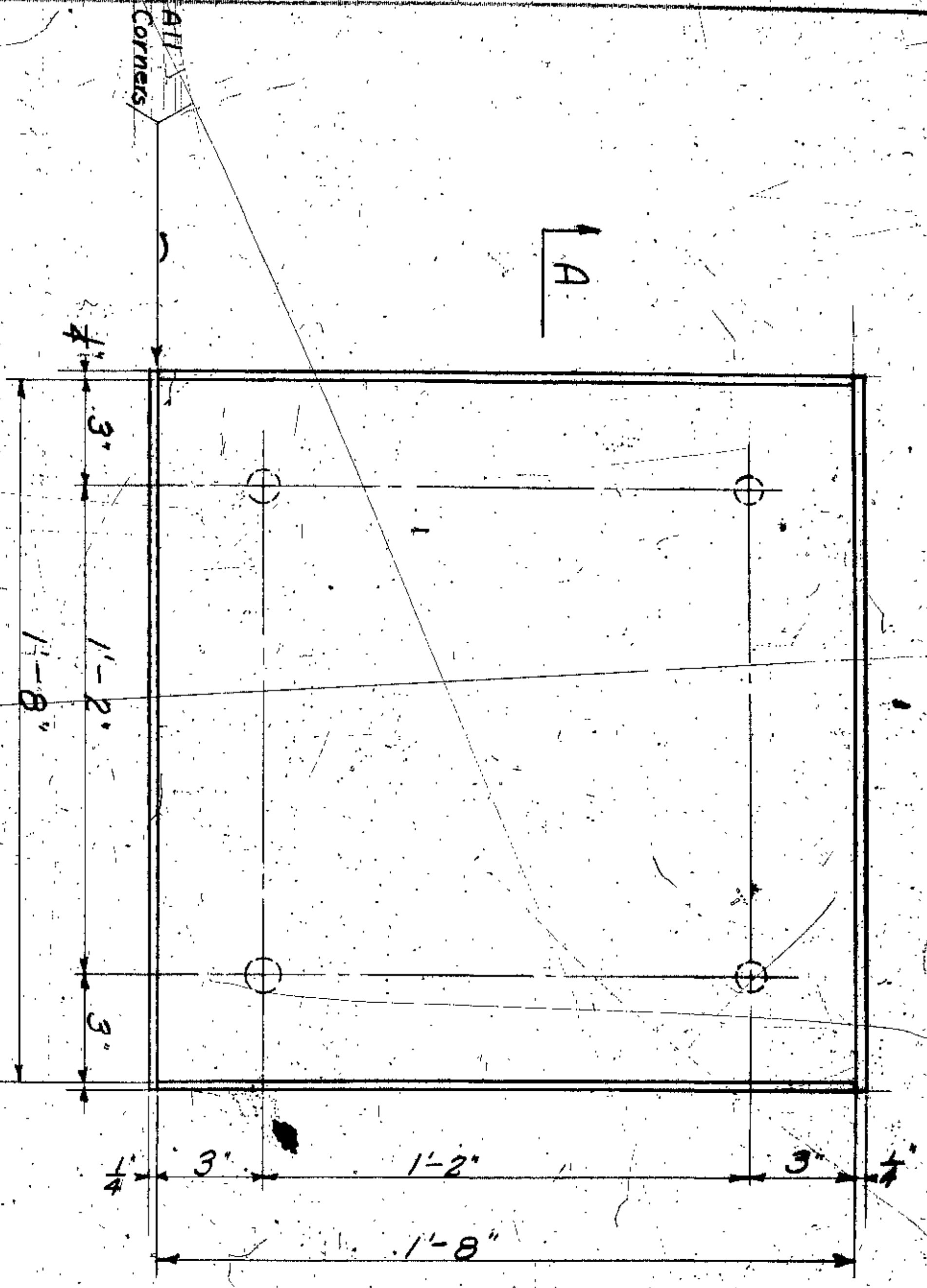
BILL OF MATERIAL

20" x 1" x 1-8" Pl. Complete MK A 1-Reqd.  
 12" x 4" Bar MK B 1-Reqd.

ELEVATION



PLAN PL. MK A



JOHN O. McWILLIAMS  
 COUNTY ENGINEER

LORAIN CARNEGIE BRIDGE  
 BEARING PLATE DETAILS  
 SCALE: 3/4" = 1'-0"  
 DATE: 5-15-44

14.7  
 REDUC.



# LORAIN - CENTRAL BRIDGE BUILDINGS TO BE WRECKED

NO.	NAME	LOCATION	TYPE OF BUILDING	PART TO BE WRECKED	OCCUPIED OR VACANT	WHEN READY TO WRECK	EST. COST	REMARKS
1	Dunice	W. 19	2 S. B. Apt.	All	✓			
2	Dilake	W. 19 Loraia	2 SF Stone Shed	"	✓			
3	Buoff	1808 Loraia	2 SF Dwelling Shed	"	✓			
4	Ruymade	1801 Loraia	2 SF Dwelling Shed	"	✓			
5	"	"	2 SF " "	"	✓			1803 1/2
6	"	2016 W. 18	1 " "	"	✓			
7	Seldman	1719 Loraia	2 SF Dwelling	"	✓			
8	"	1715 "	2 SF " "	"	✓			
9	"	2017 W. 18	1/2 " " Shed	"	✓			
10	"	1707 Loraia	2 " " "	"	✓			
11	Burkholder	1701 Loraia	2 SF Dwelling	Part	✓			
12	"	"	" " "	All	✓			by 1852M
13	"	"	1 S F Shed	Part	✓			
14	Wilma	2023 W. 18	2 SF Dwelling Shed	All	✓			
15	Plungek	2027 W. 18	1 SF " "	"	✓			
16	Andia	2022 W. 17	1 SF Dwelling Shed	"	✓			
17	Kotiva	2024 W. 17	1 1/2 " " "	"	✓			
18	Bauererberg	2030 W. 17	2 " " "	"	✓			
19	Spungy	2023 W. 17	1 SF " "	"	✓			
20	"	"	2 SF " "	"	✓			Run
21	Shalena	2029 "	1 SF " "	"	✓			
22	"	"	1 S B Garage	"	✓			
23	Robert Nut Co	At Field Big 4	1 SF Shop	"	✓			Occupied
24	Bradford-Carter	Scranton Rd.	Gas Station	"	✓			Steel
25	Cleve. Grain & Mill Co.	By Guy River	Grain Elevator	"	✓			Partly destroyed by fire
26	Carron (Owner 1801)	W. 3 & W. 4 Sts	1 S B Factory & sheds	"	✓			About March 25-30 Narrow bed
27	Baltimore & Ohio	W. 3 St.	2 SF Shed	"	✓			
28	Mercantile Warehouse	Canal Rd.	4 S B Bldg	All	✓			Wrecked last

Frank C. Langford  
Superintendent

14.7

PEDIN

COUNTY OF CUYAHOGA  
CLEVELAND, OHIO

**WRECKING SCHEDULE**  
Lorain-Central  
Bridge  
Township  
Cleveland

A. M. FELGATE, BRIDGE ENGINEER

DRAWN BY *SM* CHECKED BY *SM* DATE Feb 17, 1930

OTHER SHEETS \_\_\_\_\_ REPORT NO. \_\_\_\_\_

Plan Approved \_\_\_\_\_ 192

COUNTY COMMISSIONERS

COUNTY ENGINEER

COUNTY AUDITOR

Approved \_\_\_\_\_ Bridge Engineer

CONTOUR MAP JOB No. \_\_\_\_\_

ROAD No. \_\_\_\_\_ BRIDGE No. \_\_\_\_\_



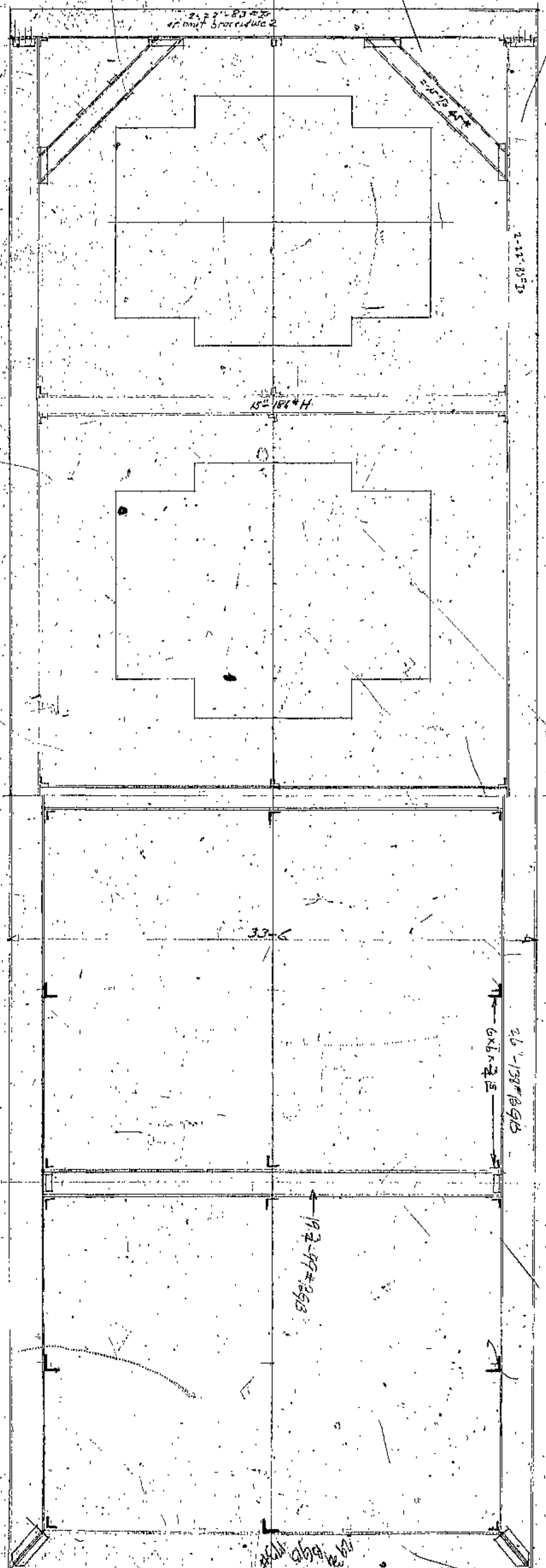




Scale: 1/8" = 1'

Width 38' 6" x 35' = 832' 10"  
38' 6" x 35' = 1359'

176  
a. 65' x 24' = 1560'  
b. 138' x 10' = 1380'  
c. 138' x 10' = 1380'  
d. 252' x 10' = 2520'  
e. 252' x 10' = 2520'  
f. 101' x 10' = 1010'  
g. 29' x 10' = 290'



Notes: Pressure on sheeting 2000# for 1/4" x 1/4" x 25' x 1/4" = 2500 x 1/4 x 1/4 = 19500#  
Sheet 1/4" wide = 1250' x 2000' = 2500000#  
Notes: 25' x 6' x 2000# = 300 000# H 1/2" x 1/2" x 18' = 16200#  
Notes: 25' x 6' x 2000# = 300 000#  
Notes: 25' x 6' x 2000# = 300 000#

534' 2 1/2" x 1/4" = 44400#  
90' 1/2" x 1/4" = 16740#  
90' 1/2" x 1/4" = 16740#  
498' 1/2" x 1/4" = 4220#  
69500#  
Sing 7/8" dia in walking building

26'-1 3/8" x 19'-2 1/4" = 11200#  
26'-1 3/8" x 19'-2 1/4" = 11200#

200' x 26' x 13' = 67600#  
87' x 19' x 13' = 11600#  
87' x 19' x 13' = 11600#  
87' x 19' x 13' = 11600#  
58000#  
53600#  
for each way of bearing











Part Plan on Line B-B of the Pylon

Scale Half Elevation Side with Side of the West Pylon

Scale East Elevation Top of South West Pylon

Section on Line E-E showing Stone Anchors to concrete core

Scale Half Plan on Line A-A of South West Pylon

Elev. 120.17 - Top of Pylon

Scale Half Plan on Line C-C of the Pylon showing Stone Anchors to concrete core

on Line D-D Looking N

Scale	1/4" = 1'-0"
Author	J. H. HARRIS
Checked	A. H. BELSAY
Approved	J. H. HARRIS
Date	1913

APPROVED BY

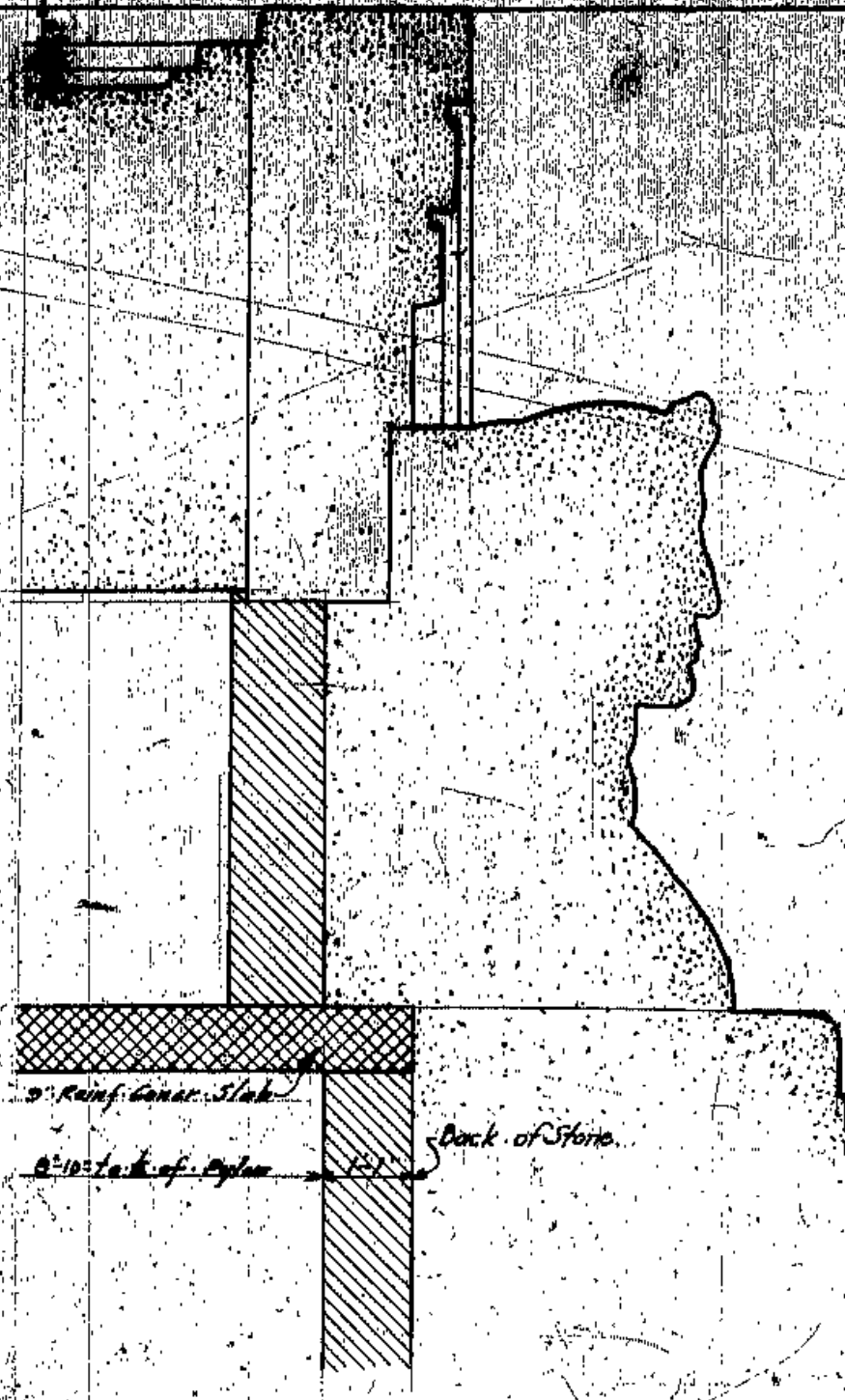
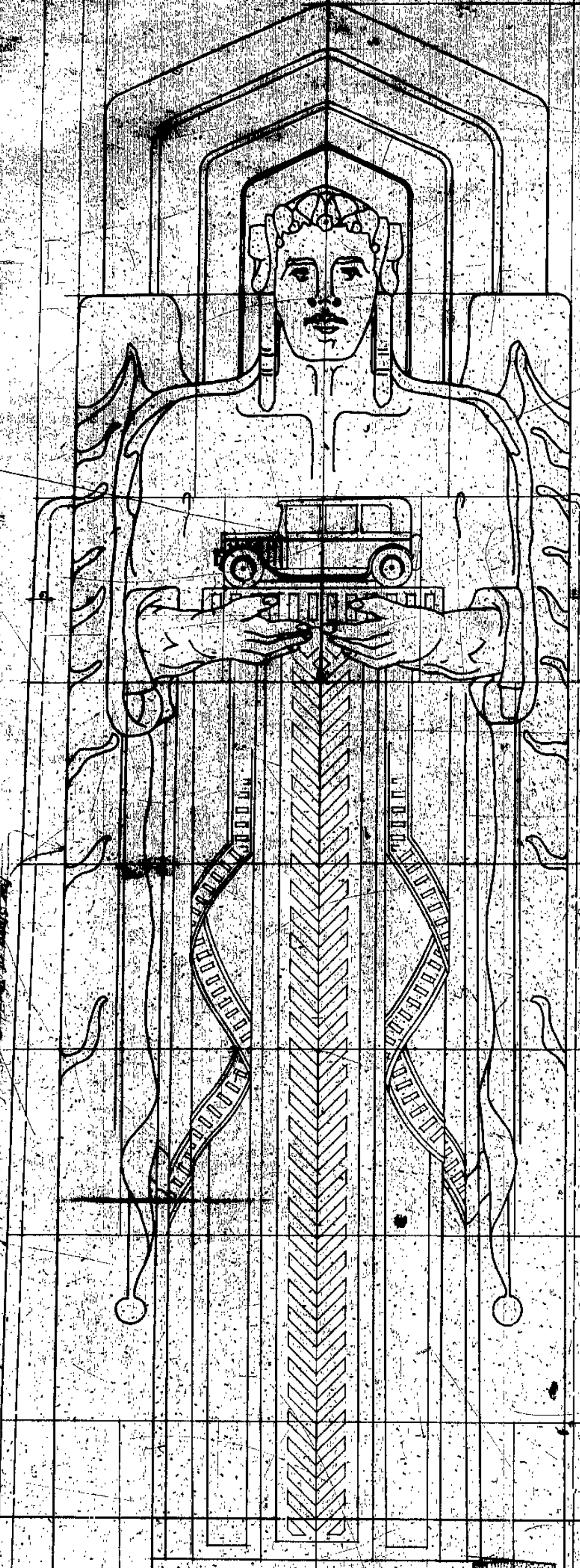
CLEVELAND COUNTY BOARD OF COMMISSIONERS COUNTY ENGINEER  
 J. H. HARRIS  
 COUNTY ENGINEER  
 CLEVELAND

CLEVELAND COUNTY BOARD OF COMMISSIONERS COUNTY ENGINEER  
 F. A. WILLIAMS  
 COUNTY ENGINEER  
 CLEVELAND

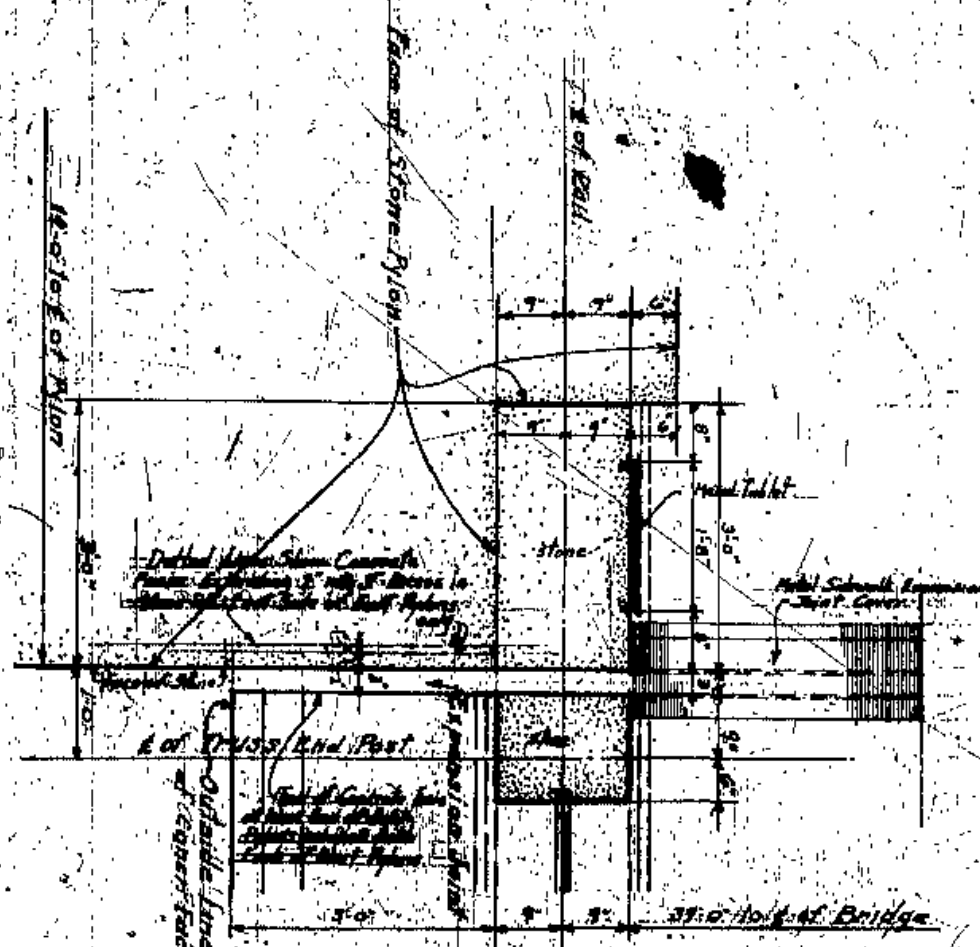
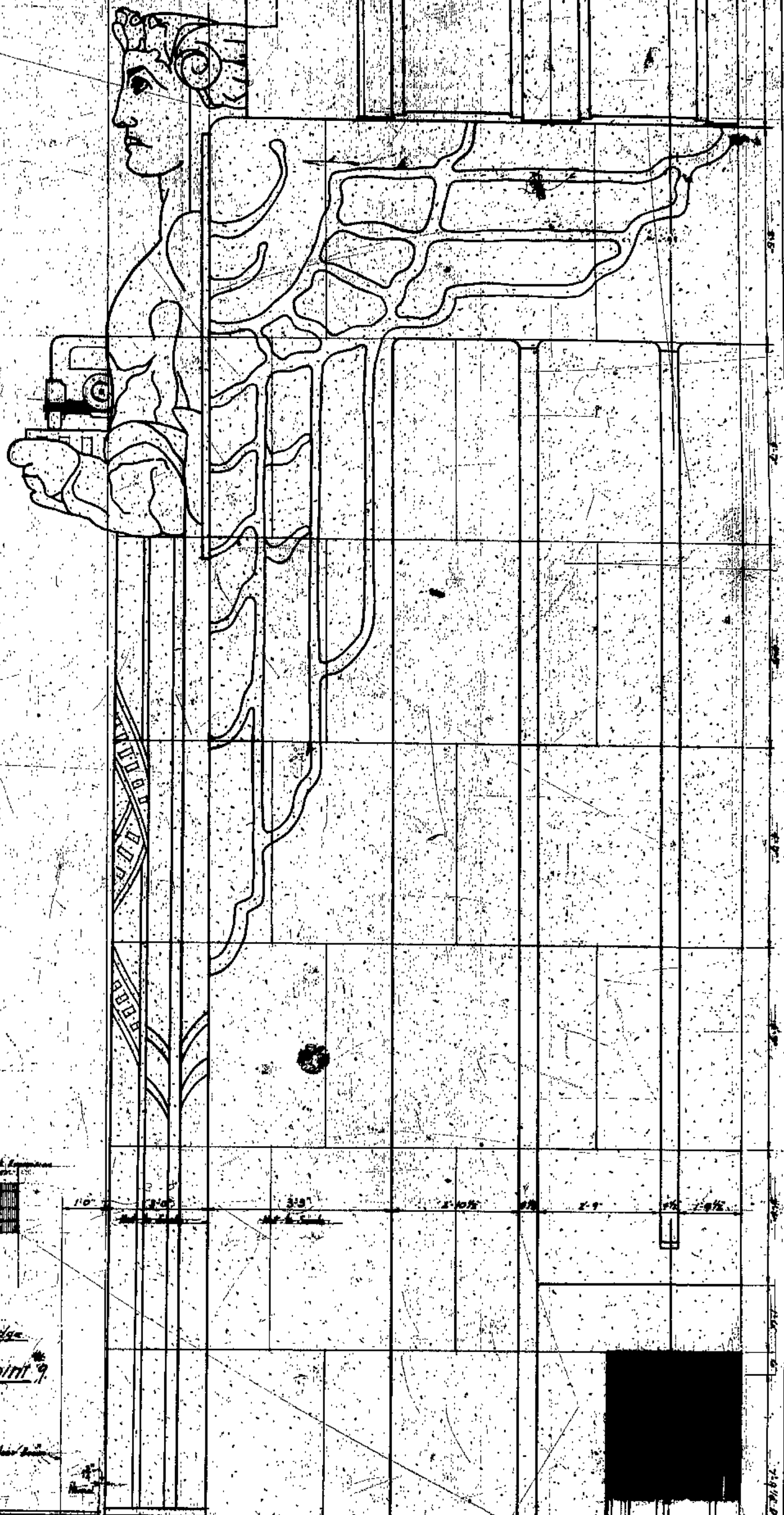
CLEVELAND COUNTY BOARD OF COMMISSIONERS COUNTY ENGINEER  
 A. H. BELSAY  
 COUNTY ENGINEER  
 CLEVELAND

UPPER PART OF THE SOUTH WEST PYLON  
 SCALE 3/4" = 1'-0"  
 TYPICAL DETAILS  
 SET BY THE CONTRACTOR AND FINAL CHECK BY THE CONSULTING ENGINEER AND ARCHITECT  
 CONSULTING ENGINEER AND ARCHITECT  
 J. H. HARRIS  
 ARCHITECT  
 CLEVELAND

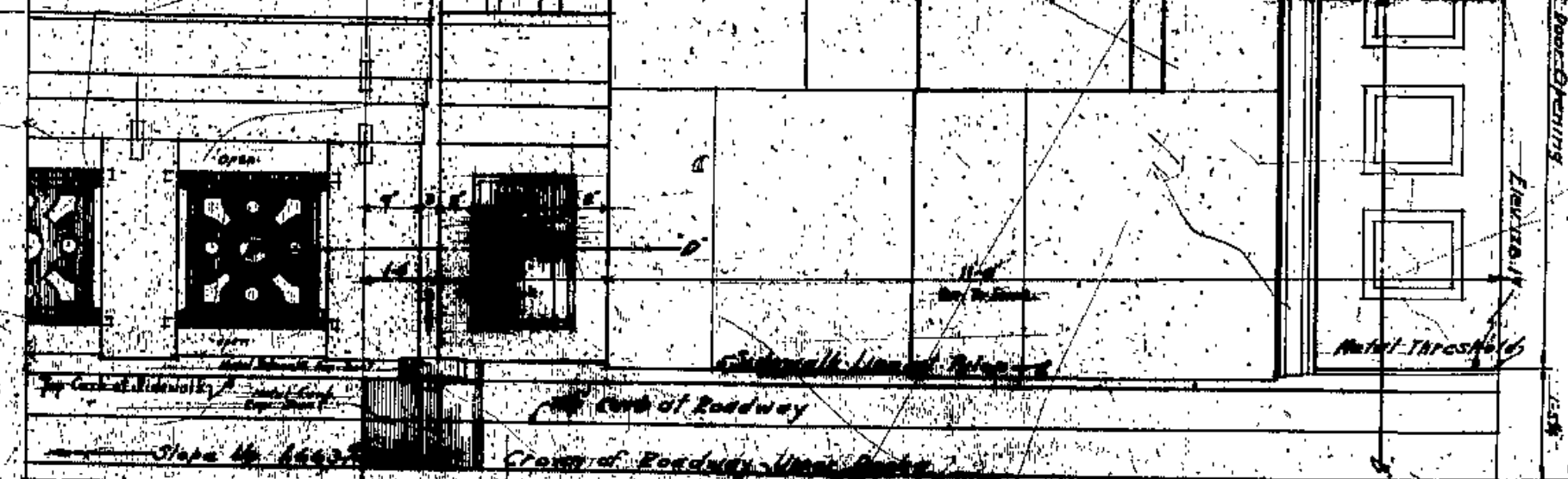
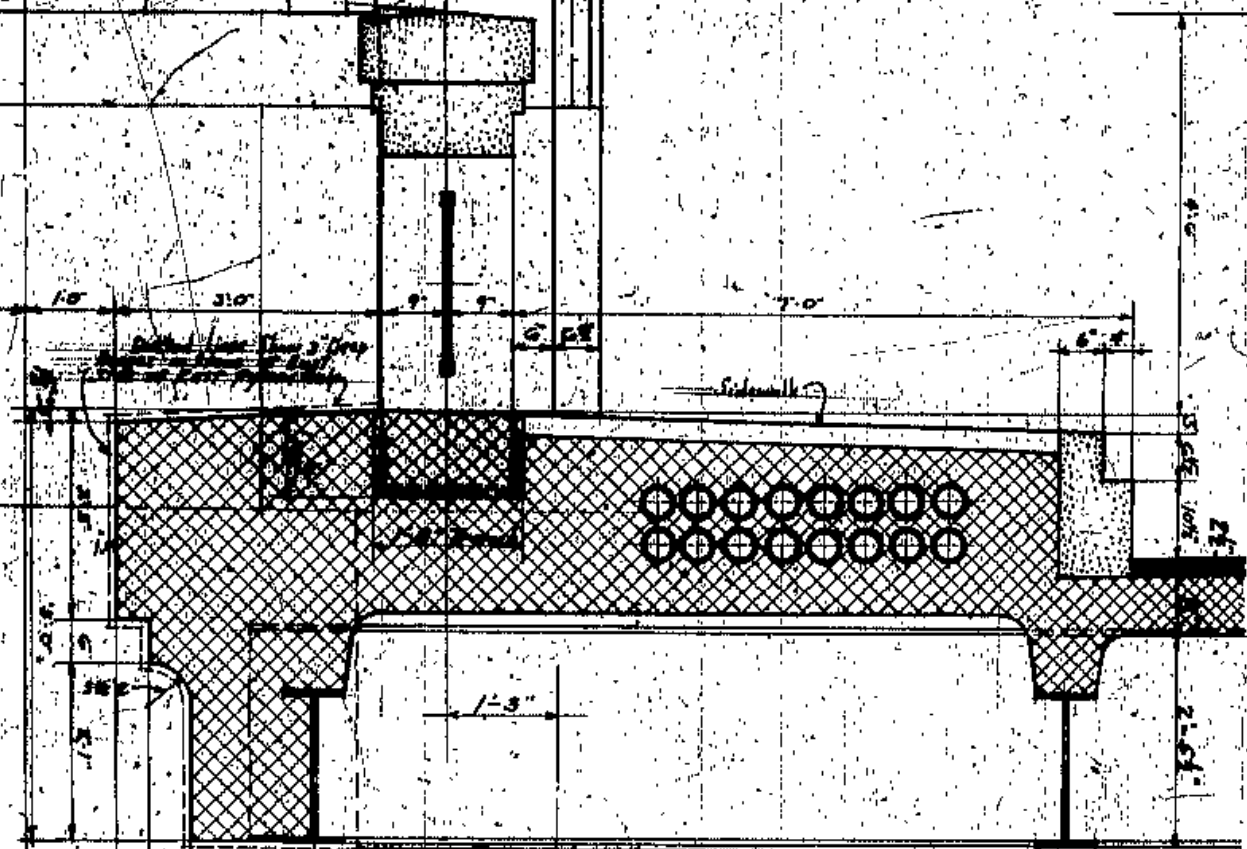




Section on Line CC Looking North  
Scale 1/4" = 1'-0"

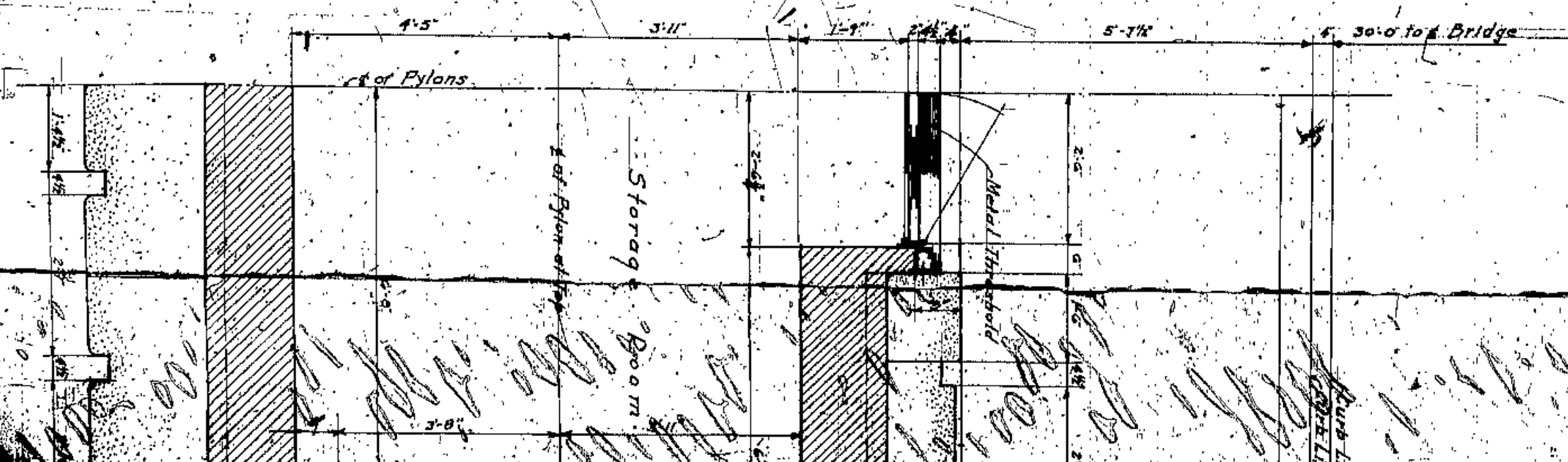
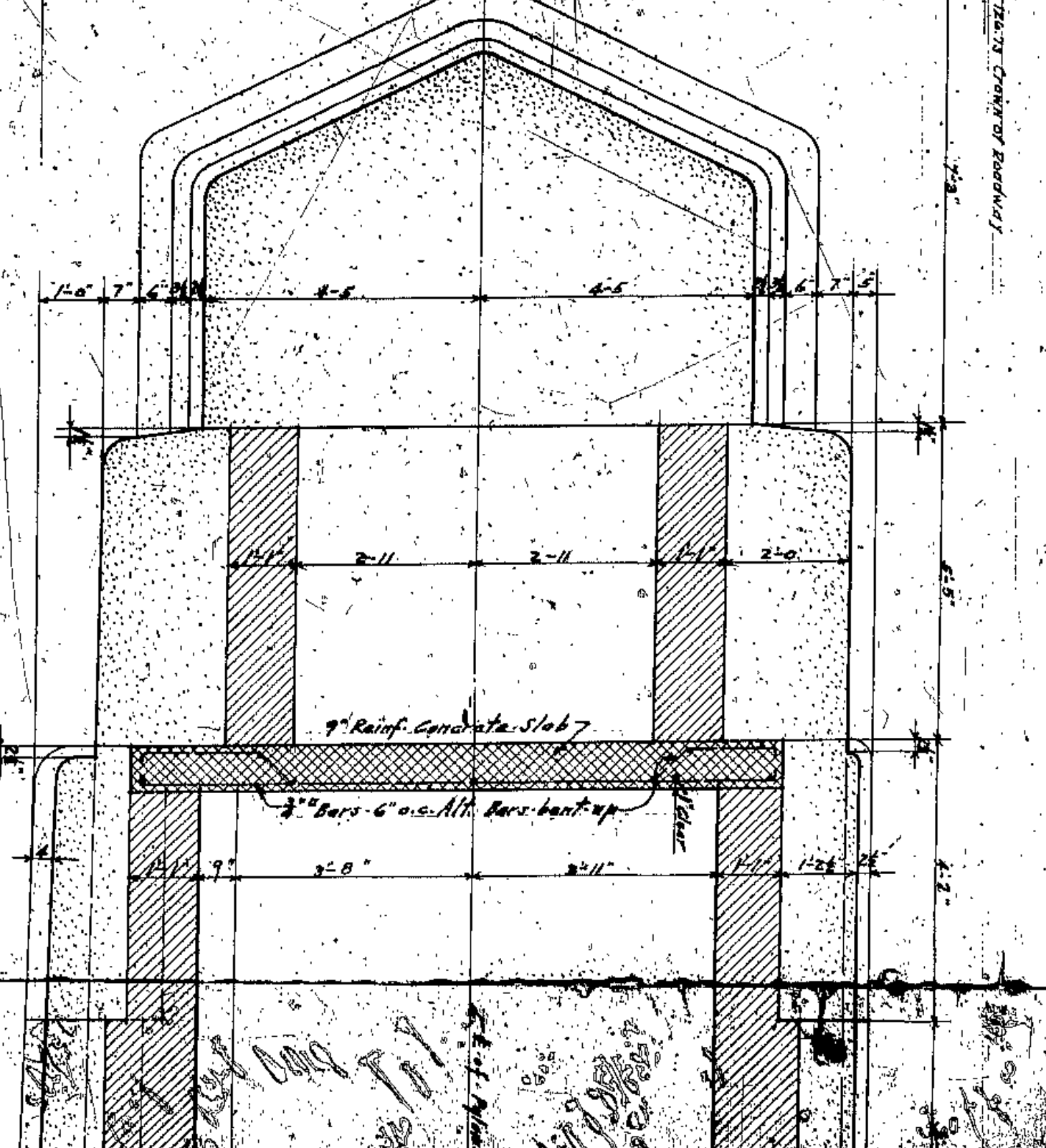


Part Plan on Line DD at Expansion Joint  
Typical of the Expansion Joints #1 and #2  
Scale 1/4" = 1'-0"



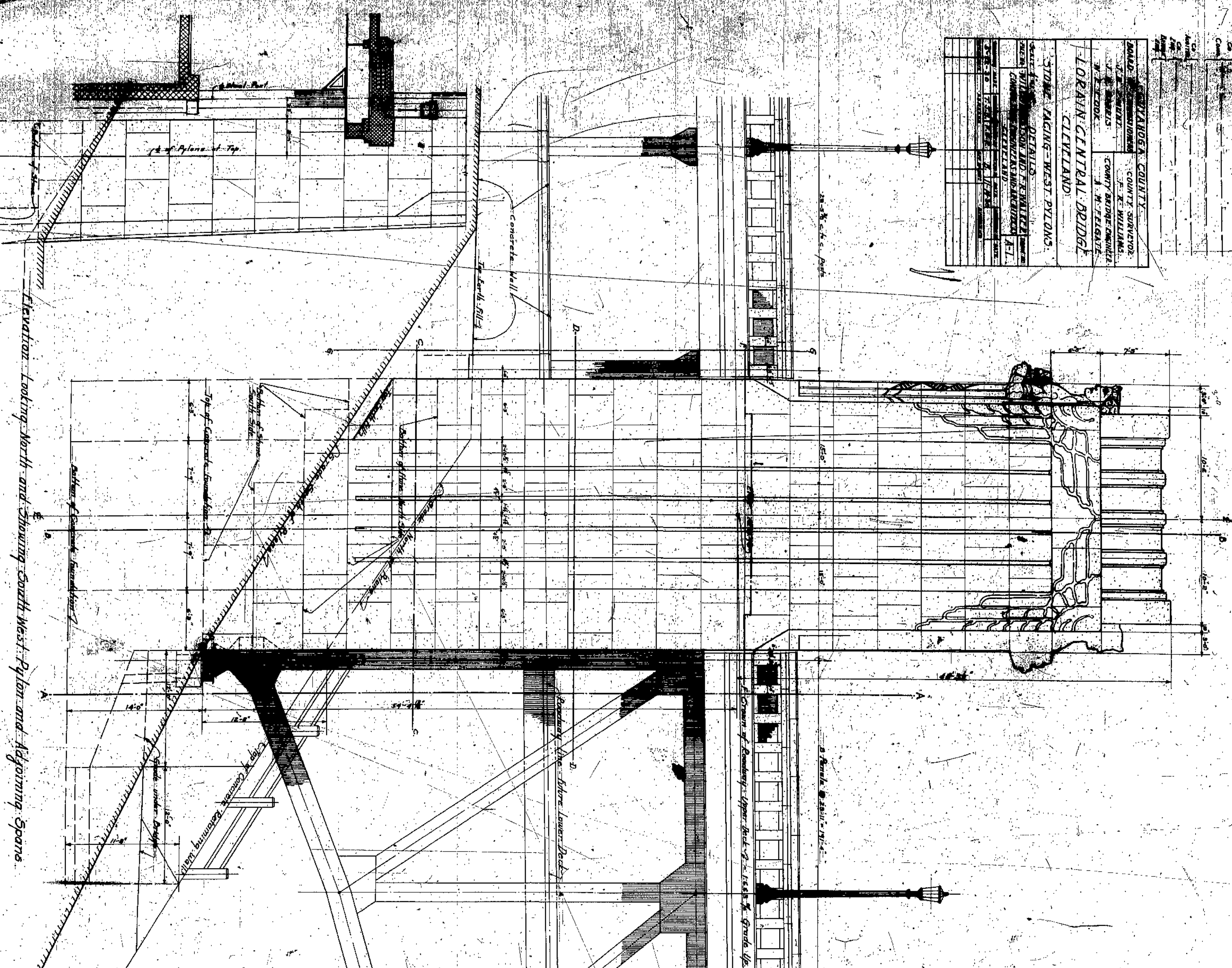
1/2 Scale Half Elevation Sidewalk Side South West Pylon

3/4 Scale East Elevation Top of South West Pylon

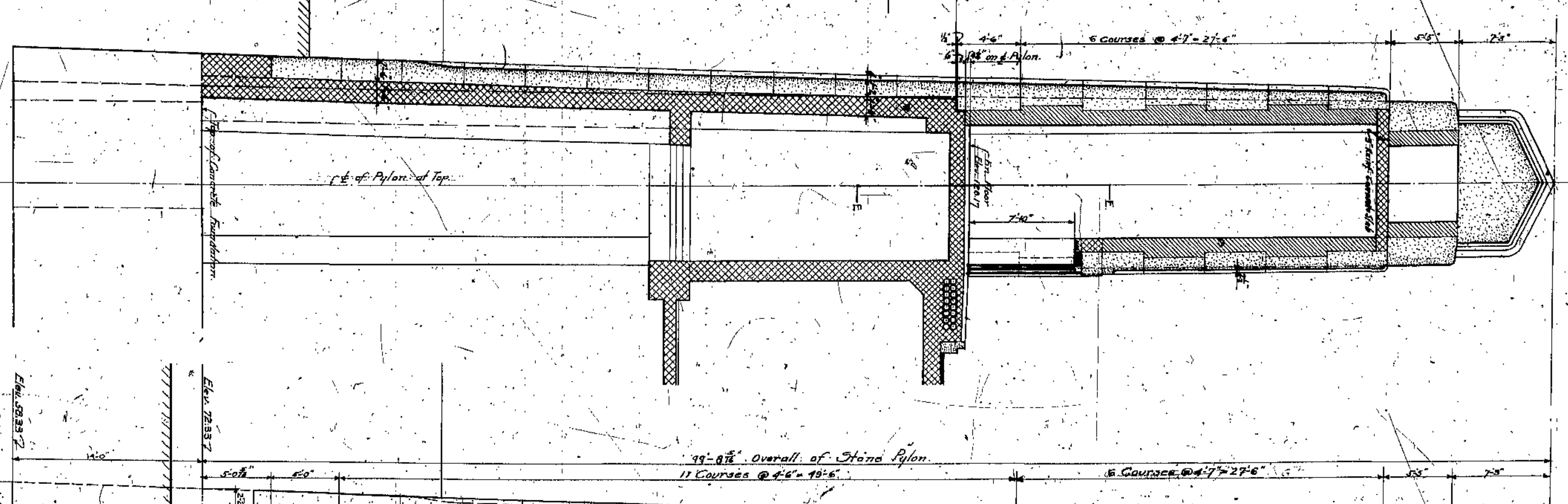
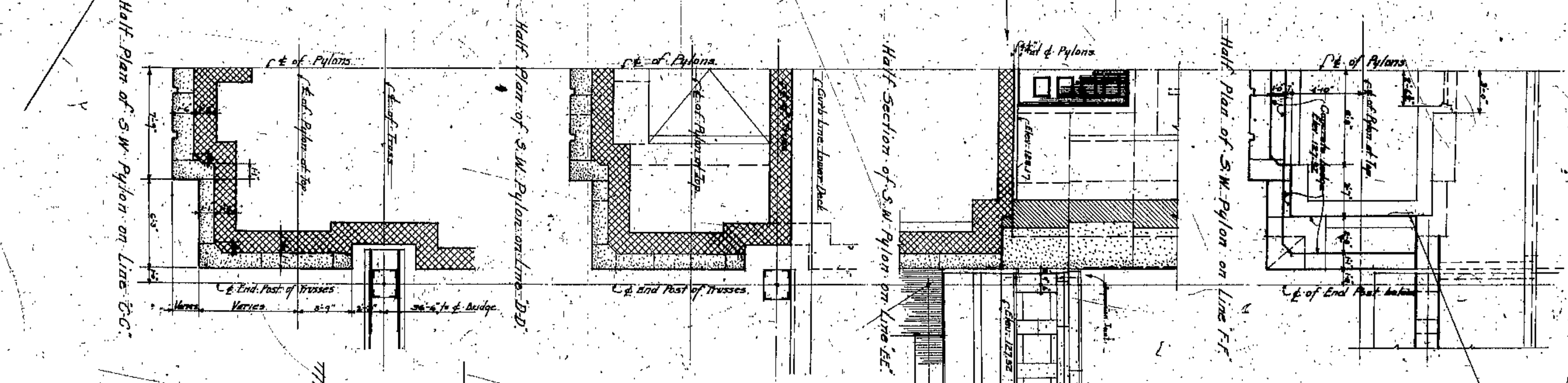




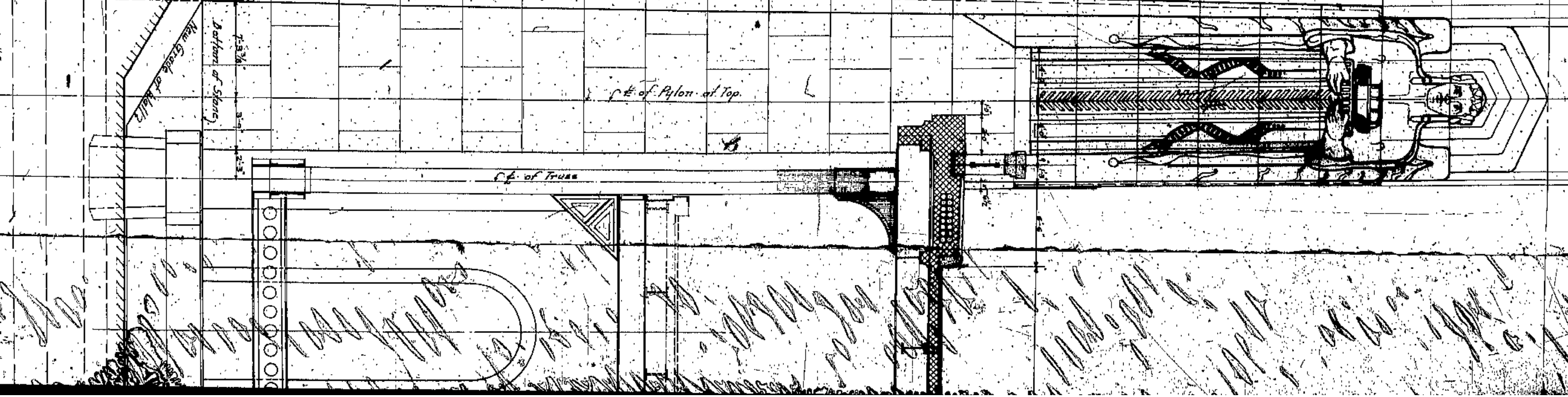
OWNER	LANIER COUNTY
ENGINEER	COUNTY SURVEYOR
ARCHITECT	E. WILLIAMS
CONTRACTOR	J. W. COOK
CONTRACTOR	J. W. FELGATE
LOKAIN CENTRAL BRIDGE	
CLEVELAND	
STONE PILING - WEST PYLONS	
DESIGNED BY	W. H. WILSON
CONSTRUCTED BY	W. H. WILSON
DATE	1911



Elevation Looking North and Showing South West Pylon and Approving Spans.

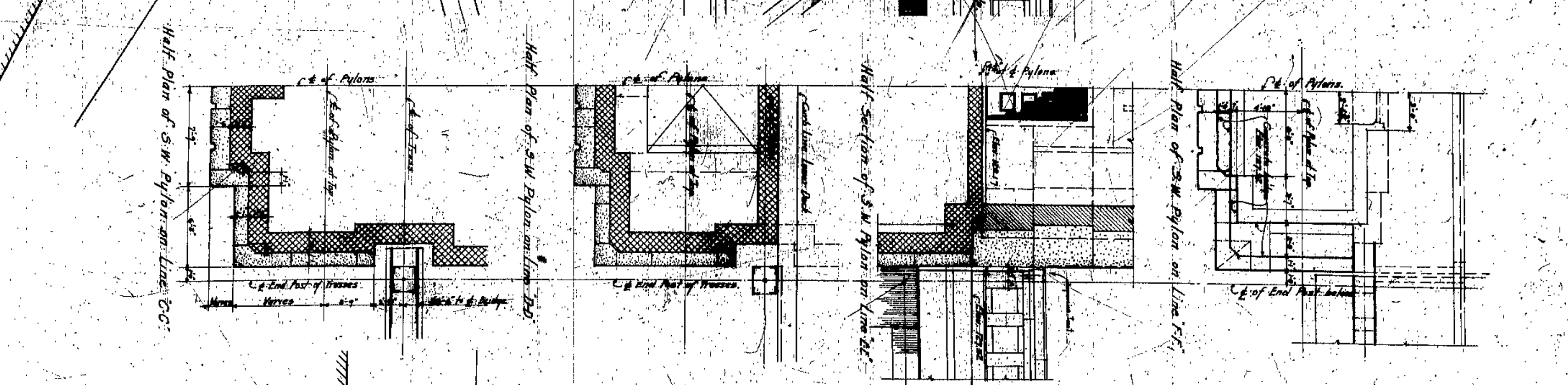


Section on Line 2-2 Looking West.

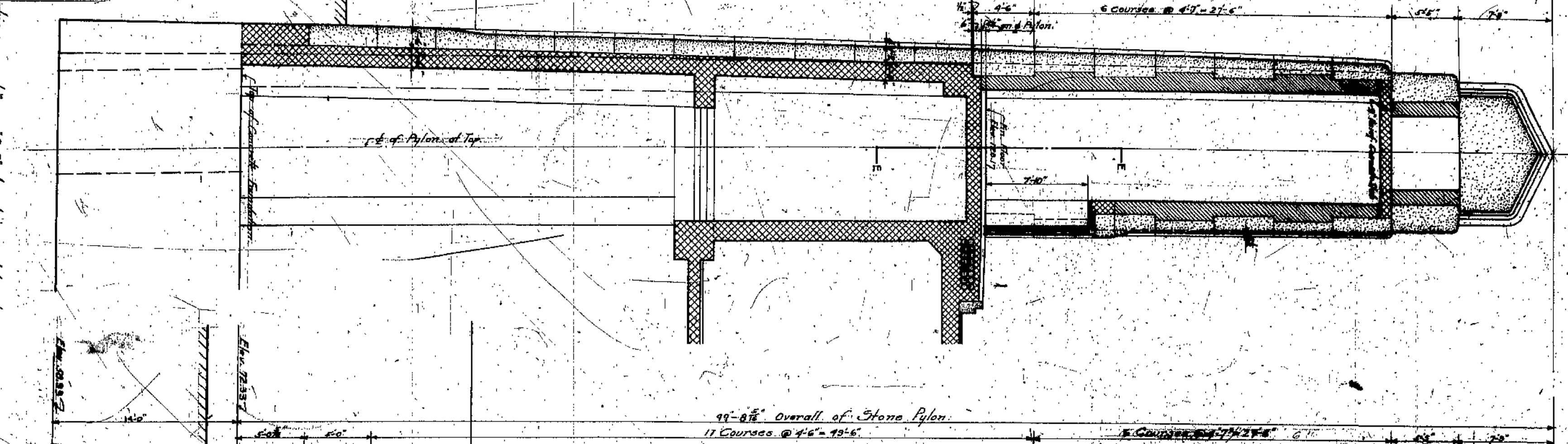


Section thru Bridge on Line A-A.

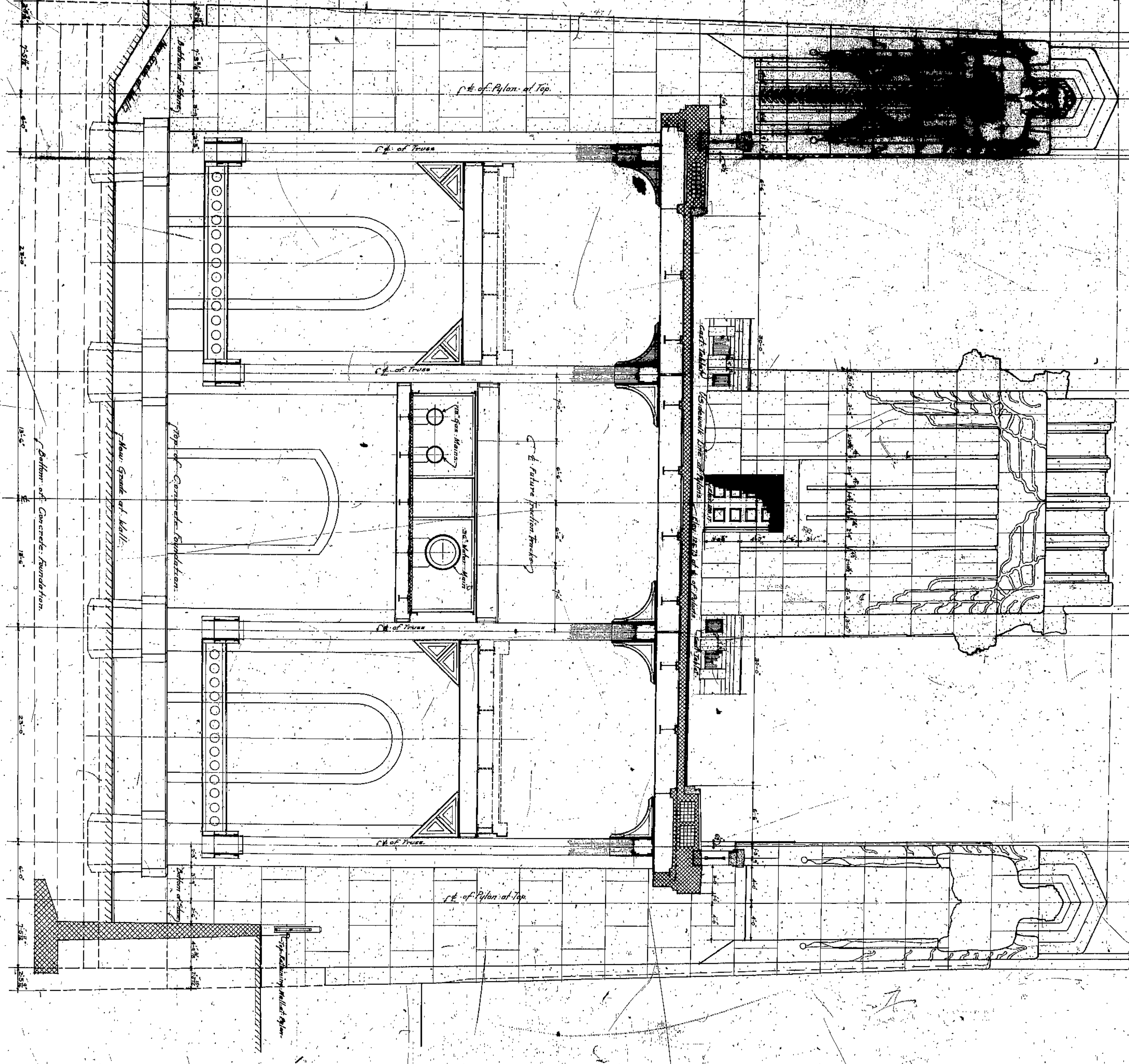




Section on line D-D Looking West



Section thru Bridge on line H-H Looking West and Showing East Elevation of West Pylons

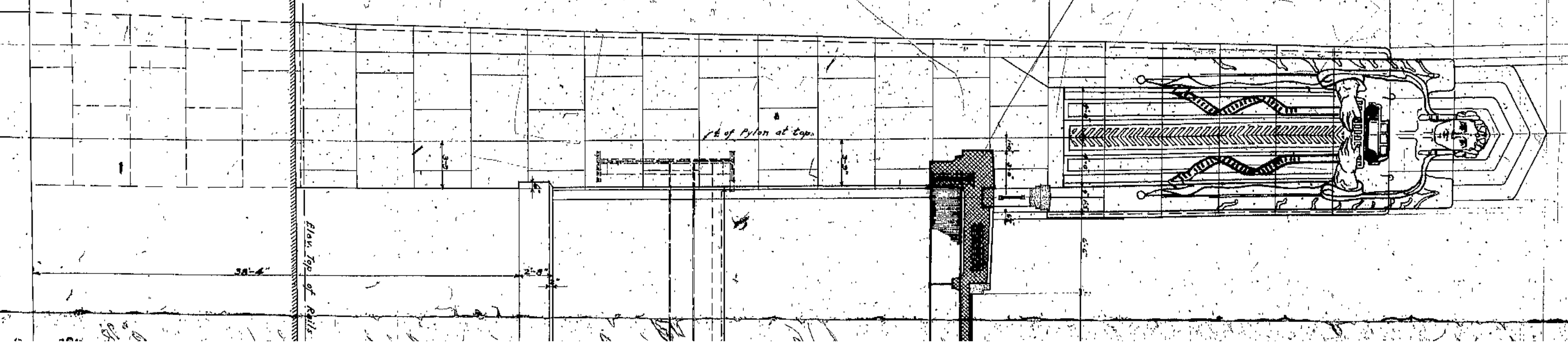
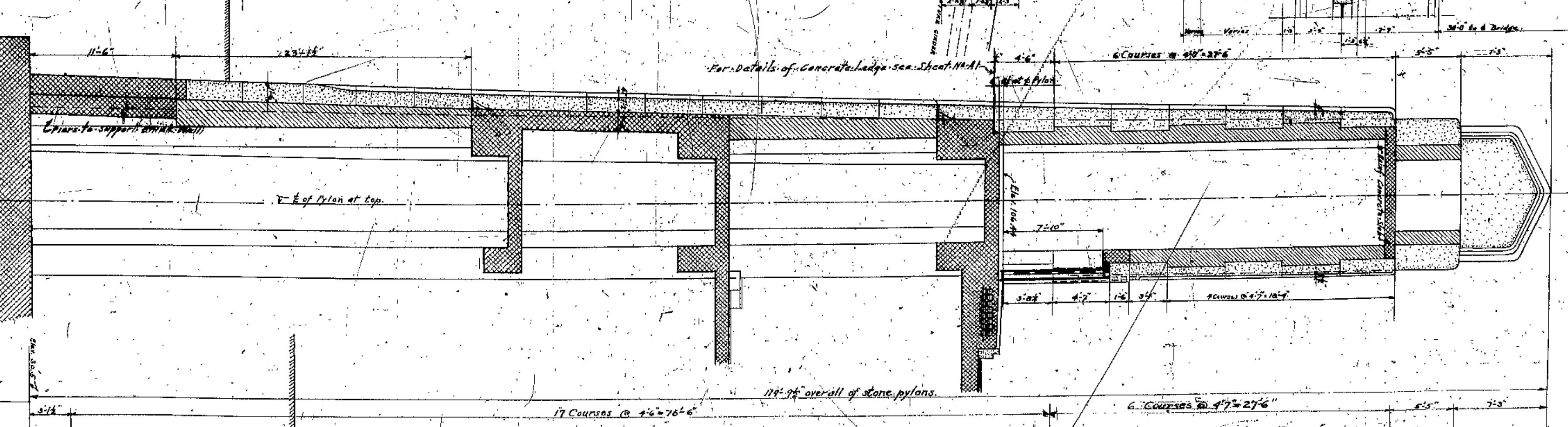
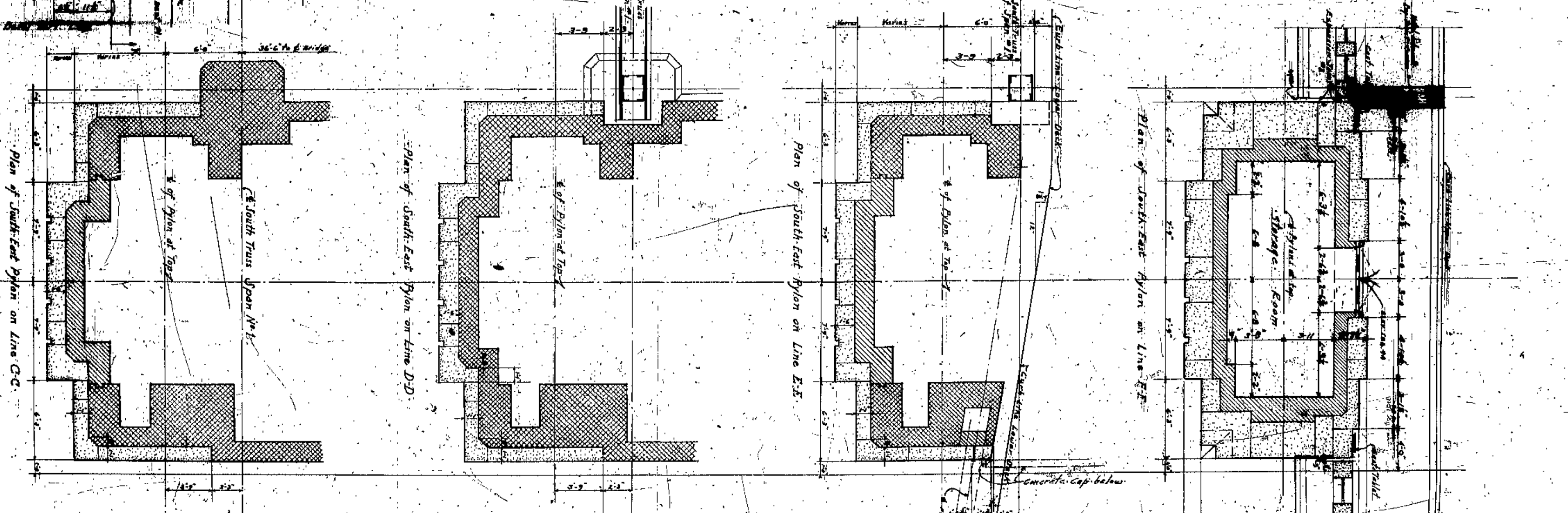
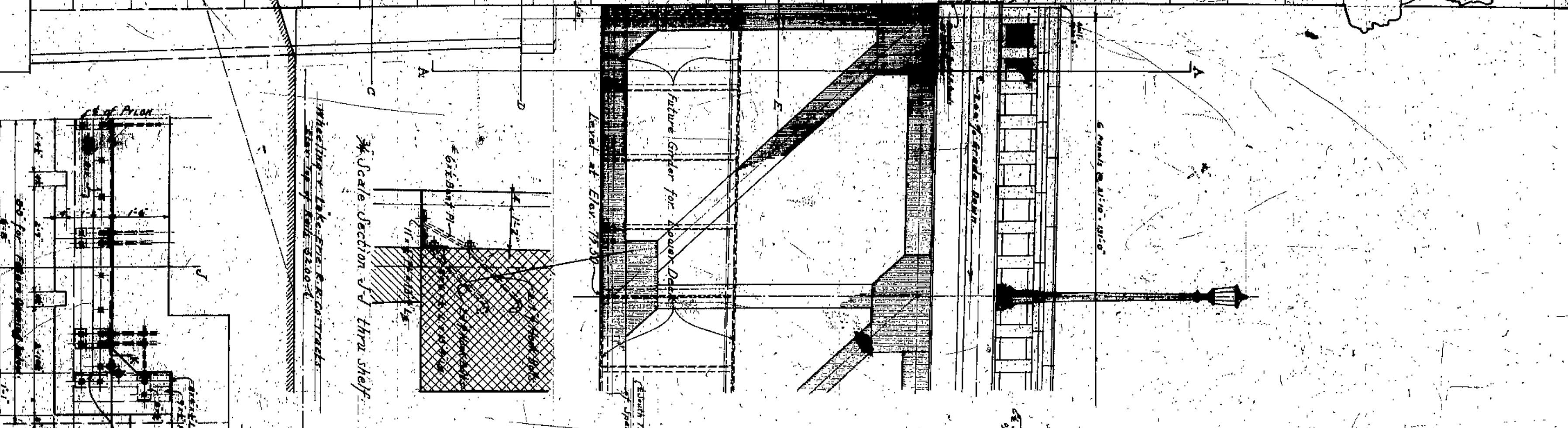
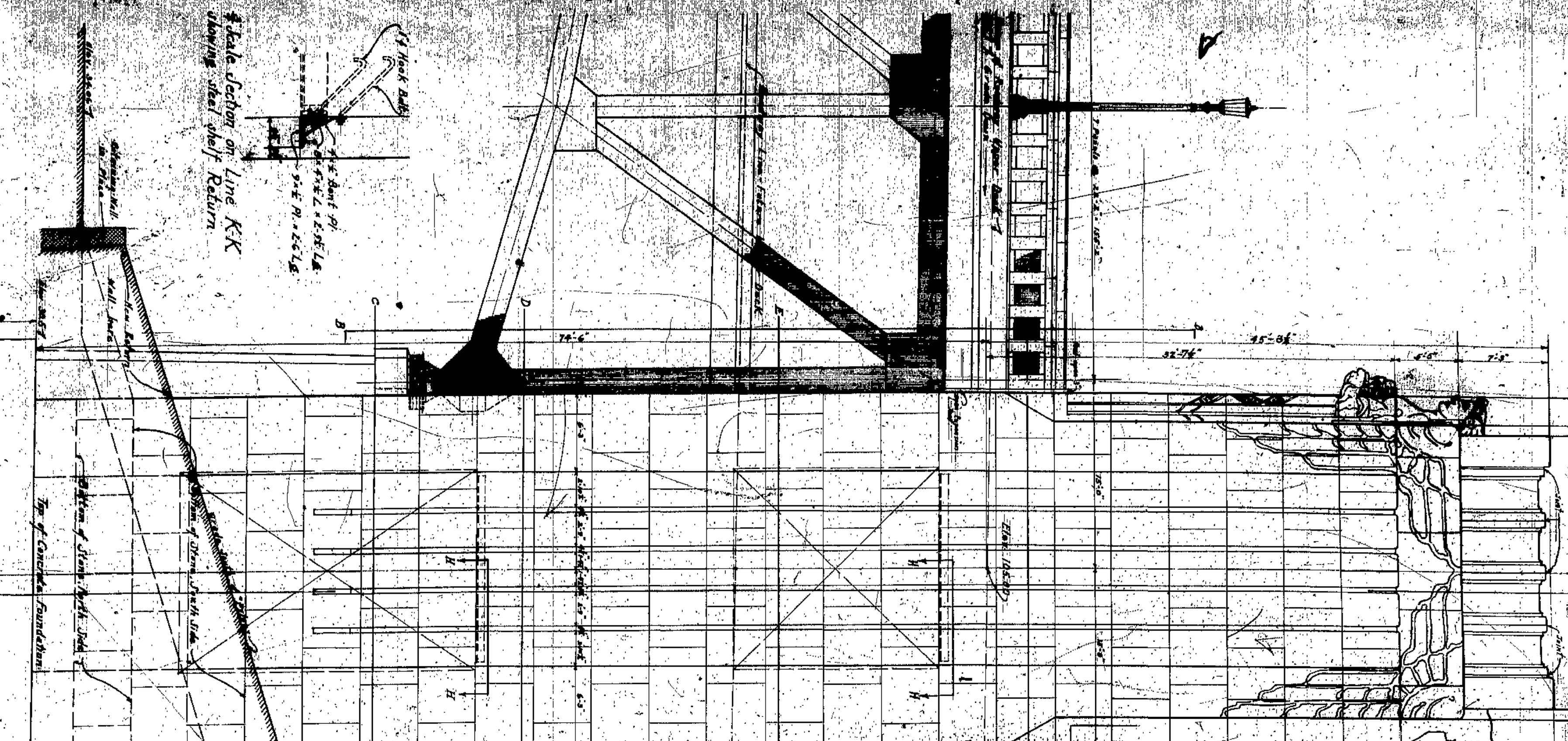


Elevation of South Pylon from Bridge Side



SECTIONAL DRAWING NORTH-SOUTH - SOUTH-EAST PYLON AND ADJOINING SPANS

Note: Stone to be cut to clear steel shelf and bench hangers. Note: This shelf applies over openings in North and South Pylons.

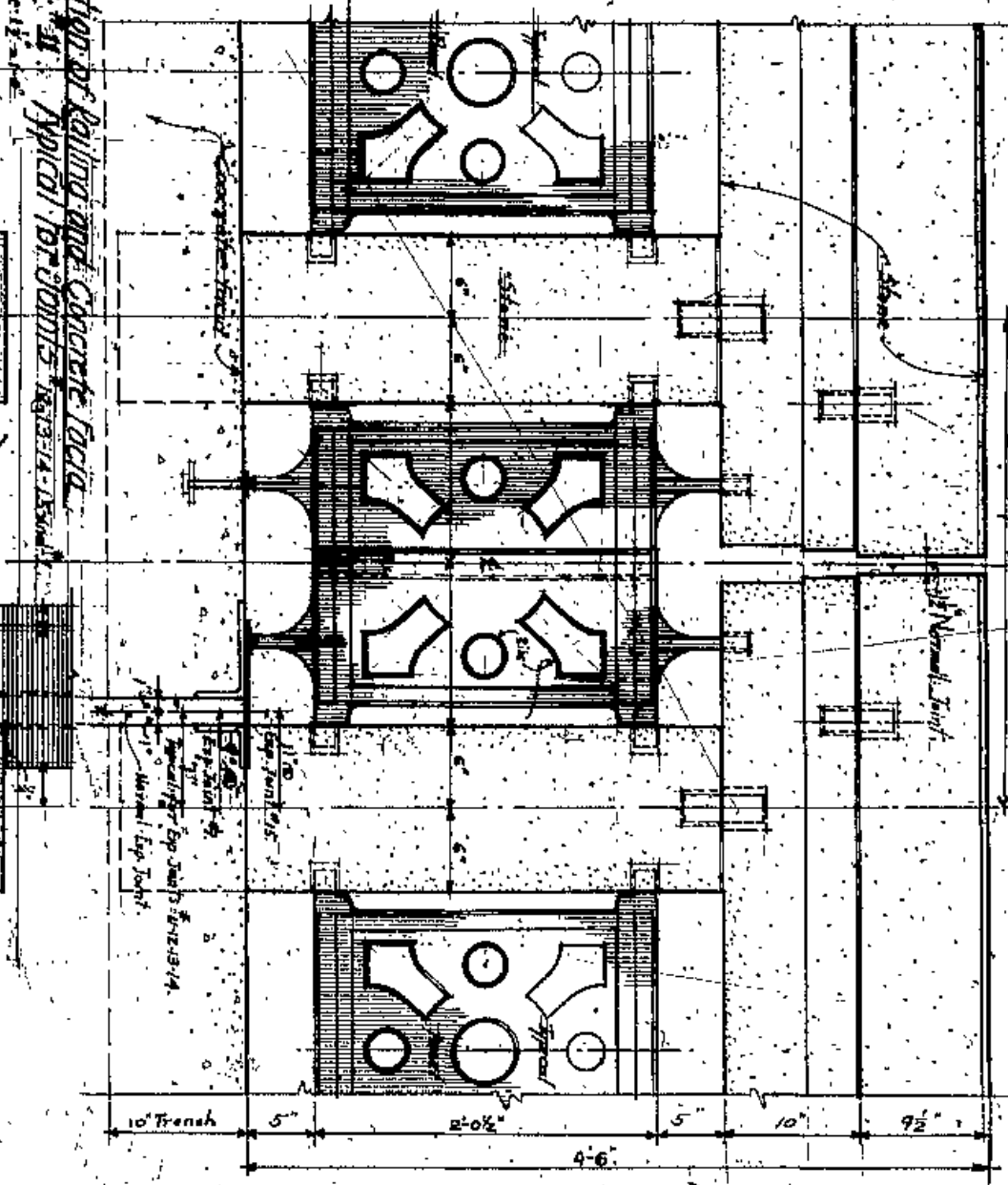
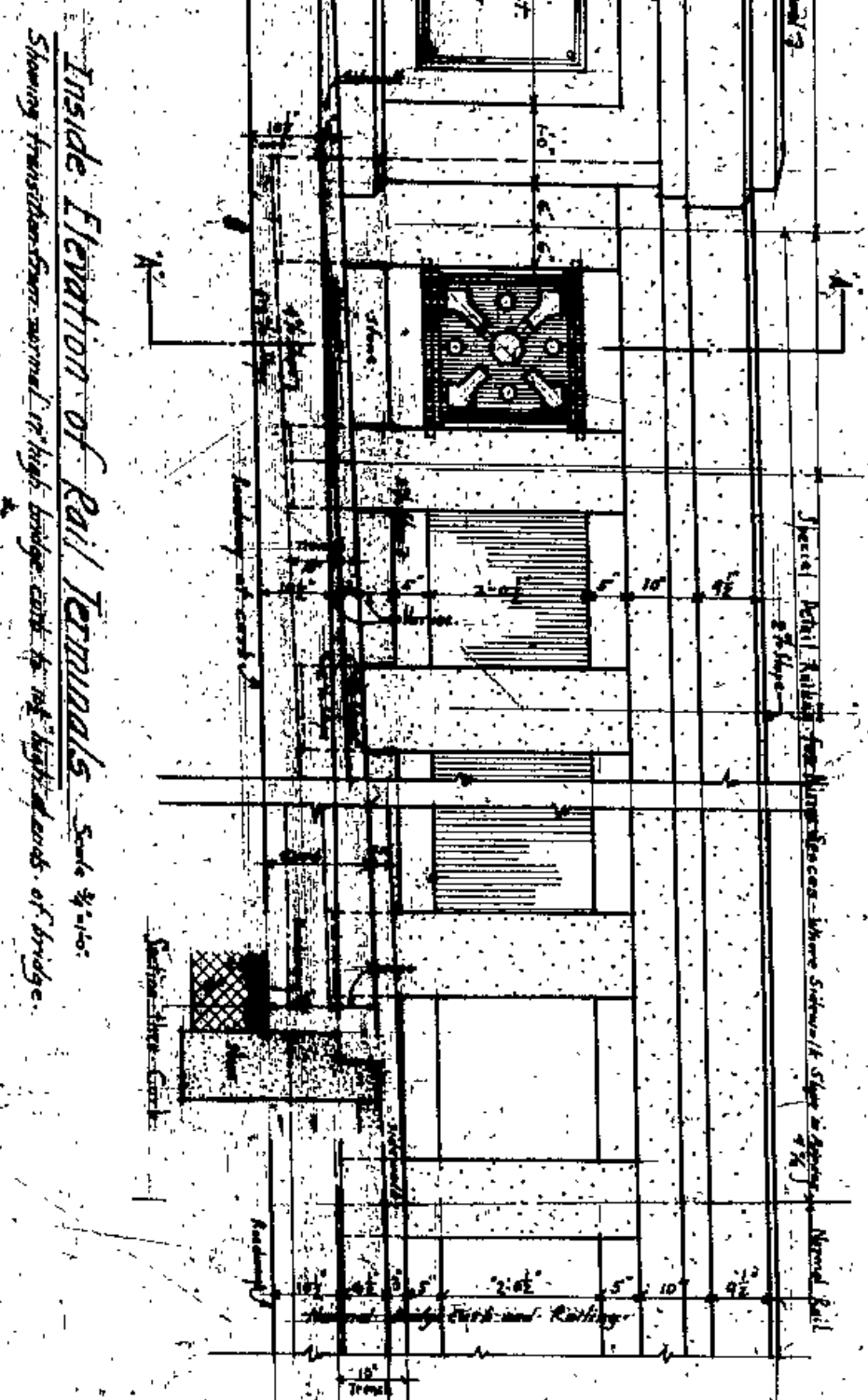
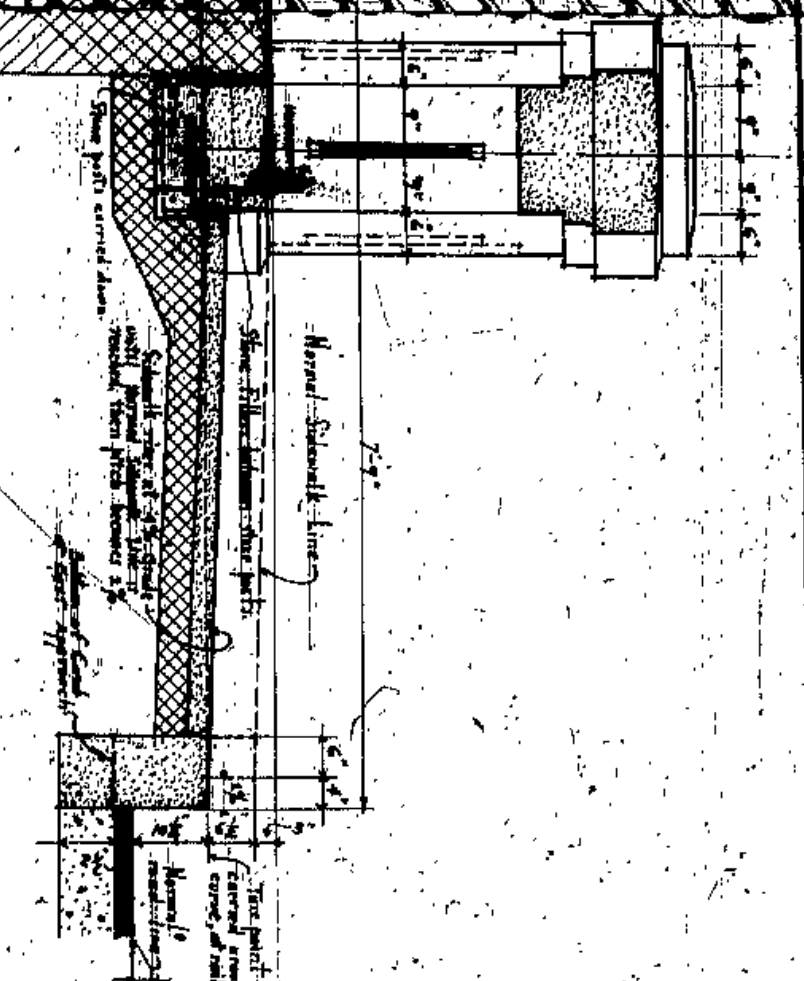


Half Section thru Bridge on Line J-J









APPROVED BY \_\_\_\_\_

CUYAHOGA COUNTY  
 BUILDING COMMISSIONERS  
 COUNTY SURVEYOR  
 S. E. ZIMMERT  
 COUNTY ENGINEER  
 J. H. WILLIAMS  
 COUNTY CLERK  
 W. E. COLE  
 COUNTY TREASURER  
 A. H. REED

LORAIN CENTRAL BRIDGE  
 CLEVELAND

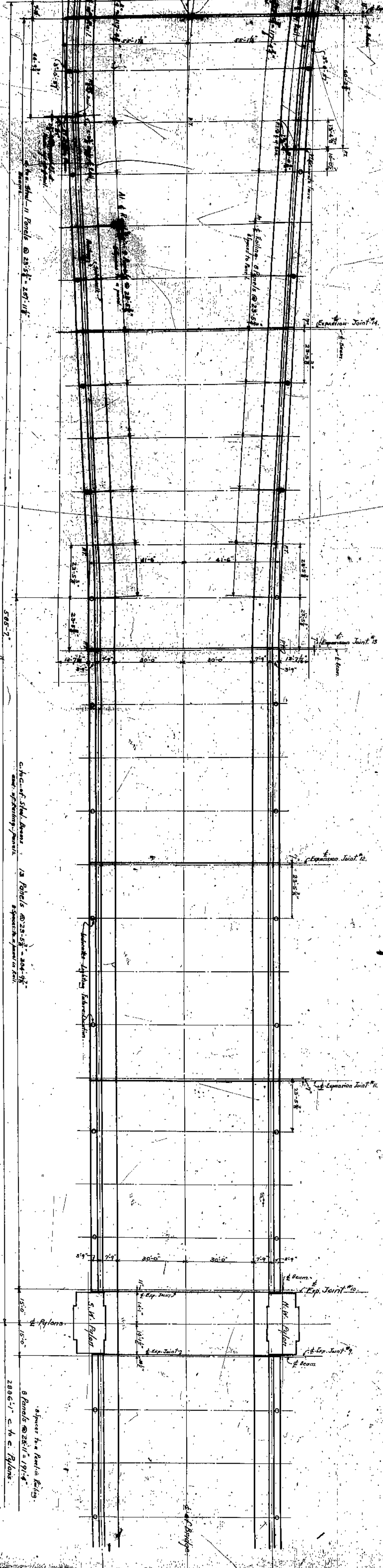
Plan of Building and Foundation  
 Scale 1/4" = 1'-0"

Prepared by  
 H. B. WATSON AND S. H. WATSON  
 CONSULTING ENGINEERS AND ARCHITECTS  
 145  
 CLEVELAND, O.

DATE OF PLAN  
 JANUARY 1914

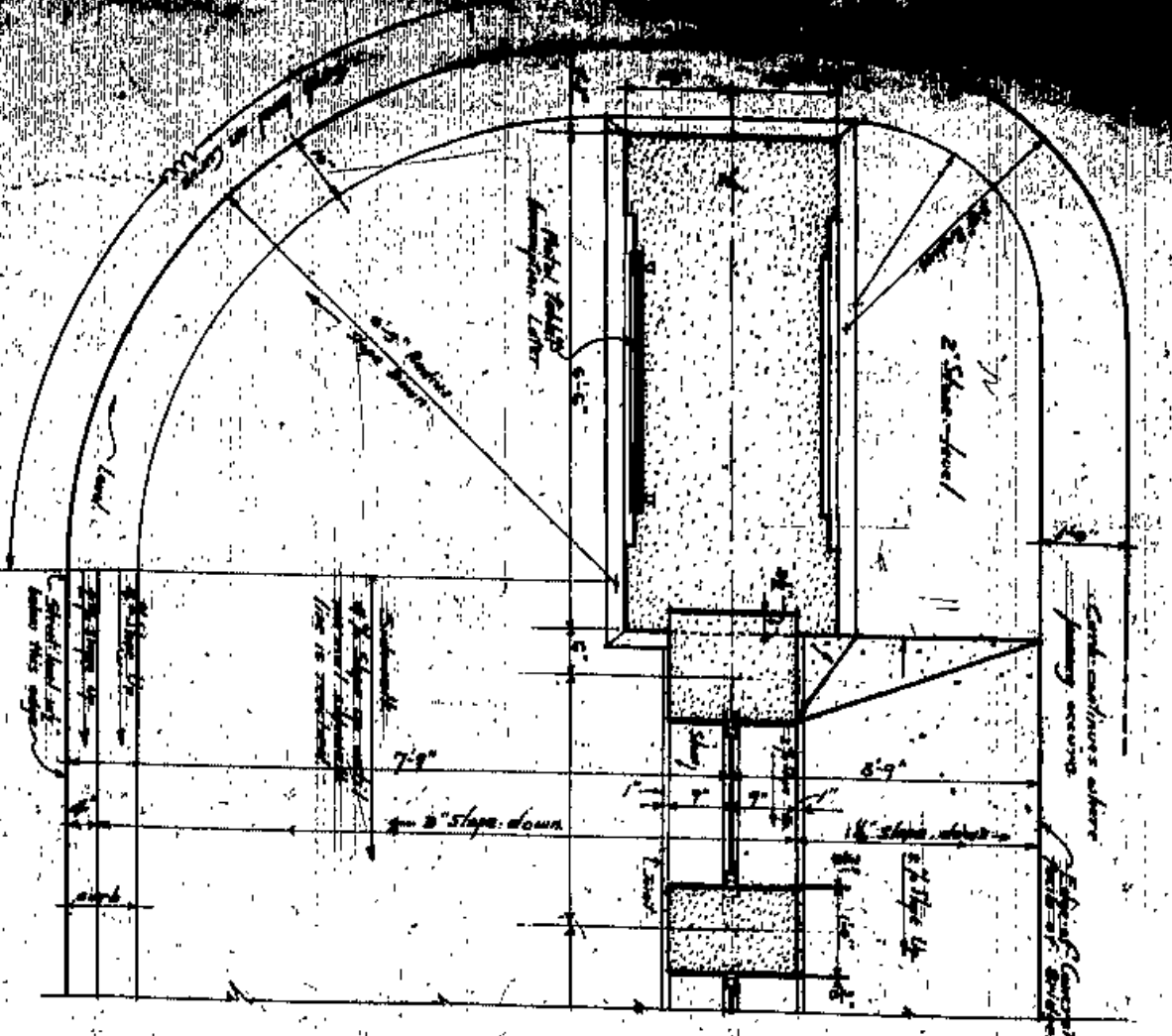
REVISIONS  
 NO. 1  
 AS SHOWN

Plan of East Approach to Lorain Central Bridge giving Spacing for Railing Units and Lighting Fixtures.

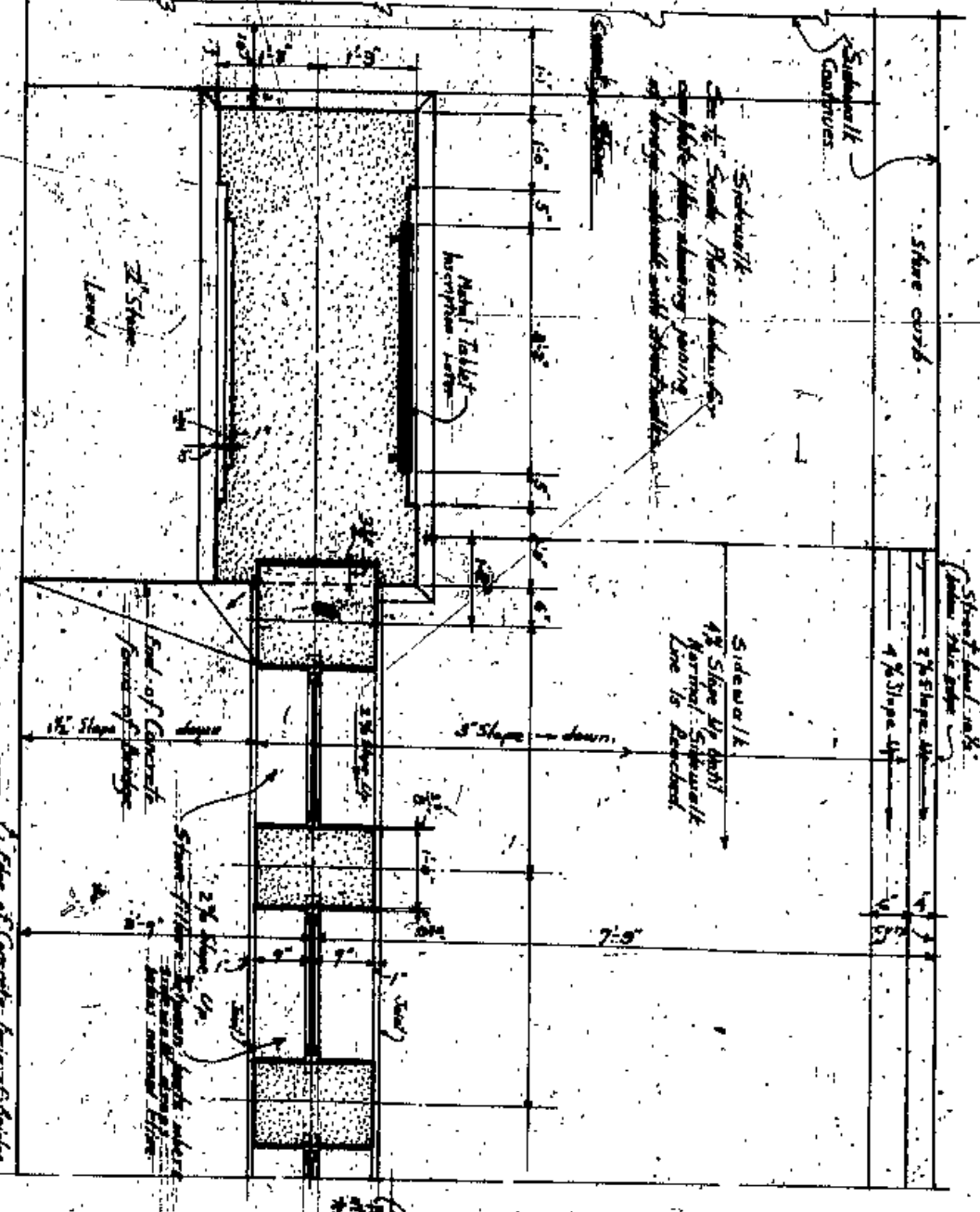


Plan of West Approach to Lorain Central Bridge giving Spacing for Railing Units and Lighting Fixtures.  
 Scale 1/4" = 1'-0"

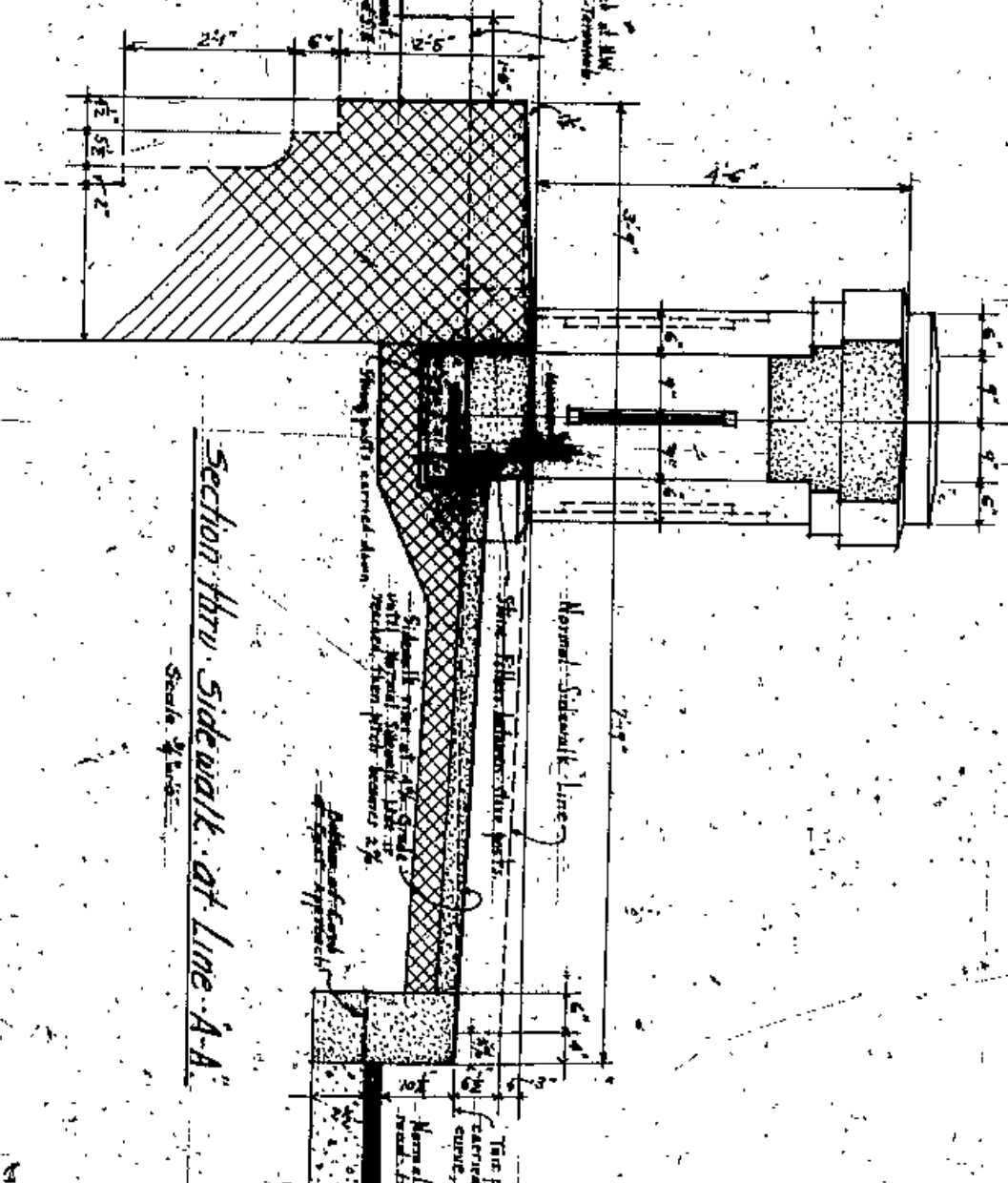




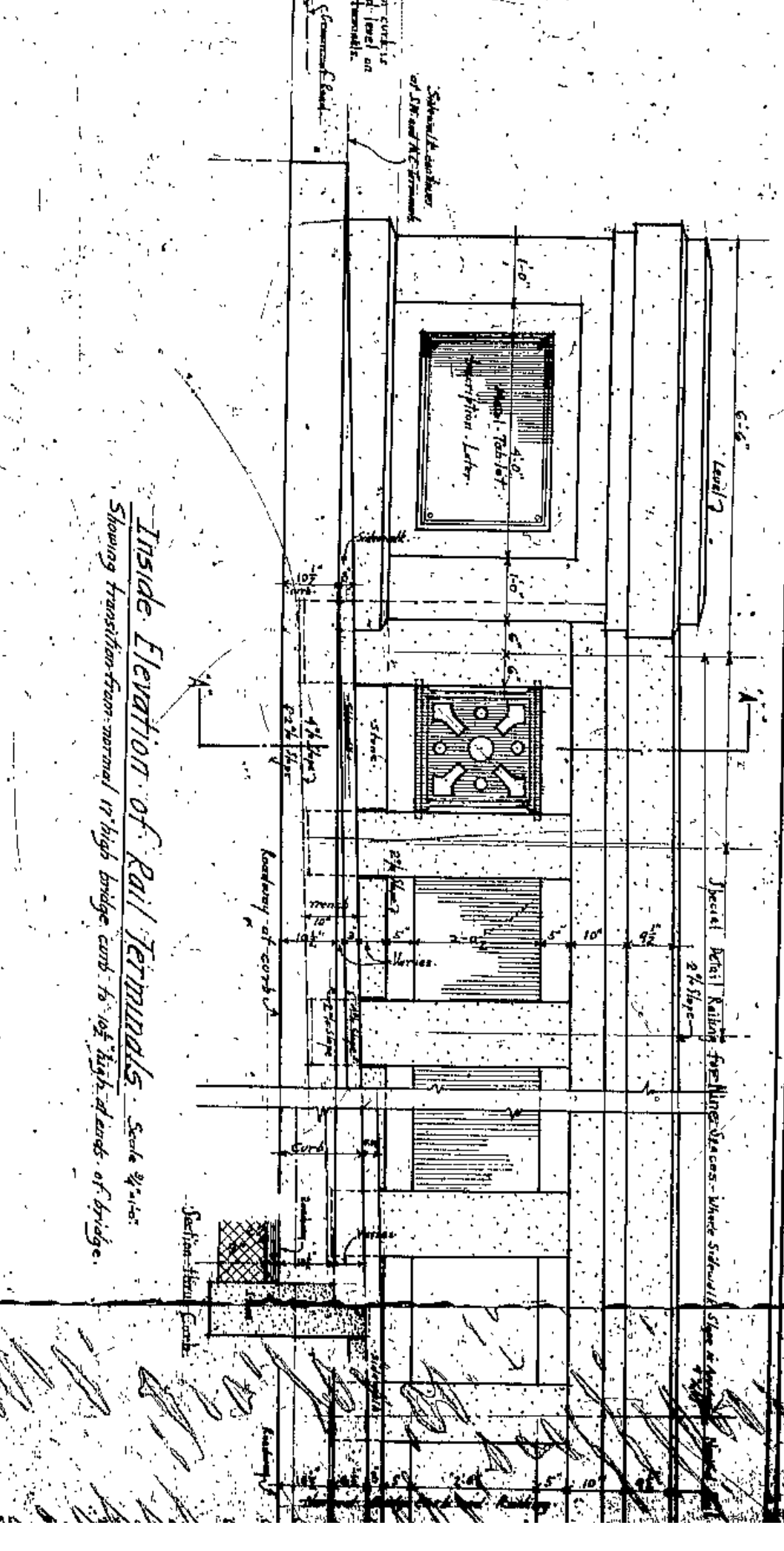
Plan of Rail Terminal at North West End of Bridge  
Terminal at S. End of Bridge the same. Scale 1/4" = 1'-0"



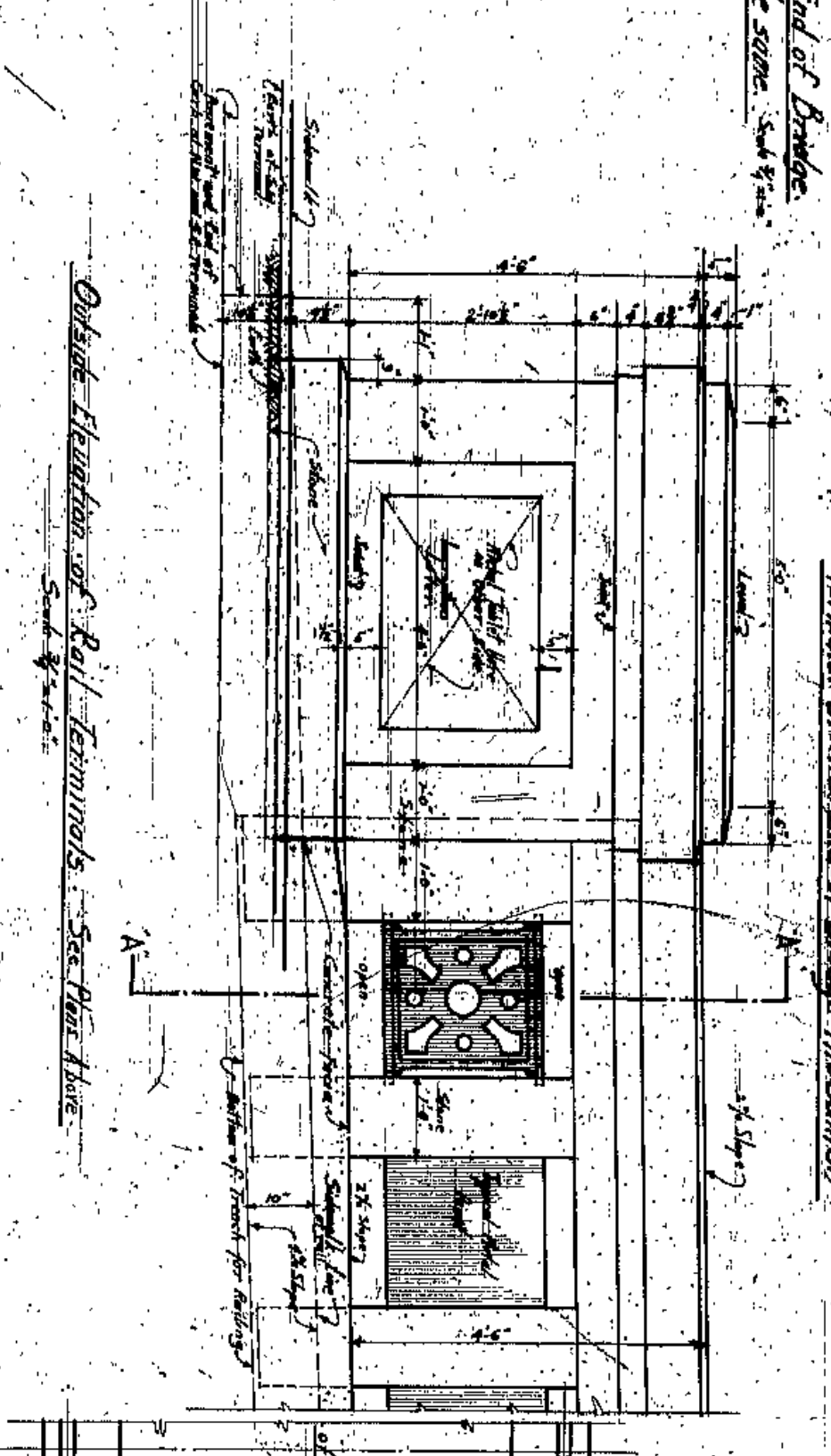
Plan of Rail Terminal at South West End of Bridge  
Terminal at N. End of Bridge the same. Scale 1/4" = 1'-0"



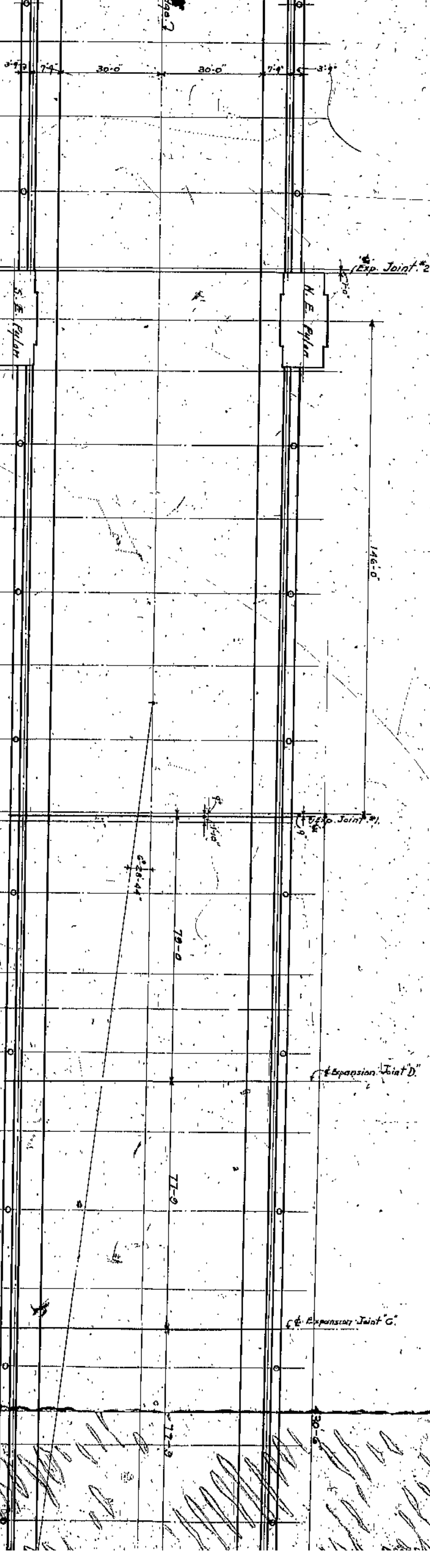
Section thru Sidewalk at Line A-A  
Scale 3/8" = 1'-0"



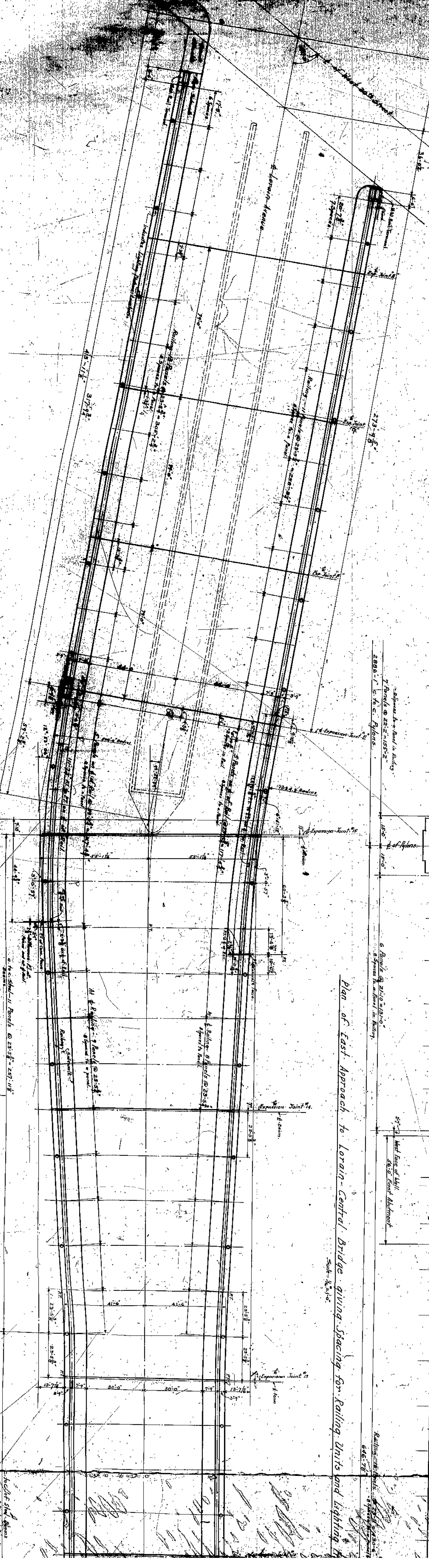
Inside Elevation of Rail Terminal. Scale 1/4" = 1'-0"  
Showing transition from ground to high bridge and to the high stands of bridge.



Outside Elevation of Rail Terminal. Section Line A-A  
Scale 1/4" = 1'-0"



Plan of East Approach to Lorain Central Bridge giving Spacing for Railing Units and Lighting Fixtures  
Scale 1/8" = 1'-0"



Plan of West Approach to Lorain Central Bridge giving Spacing for Railing Units and Lighting Fixtures  
Scale 1/8" = 1'-0"

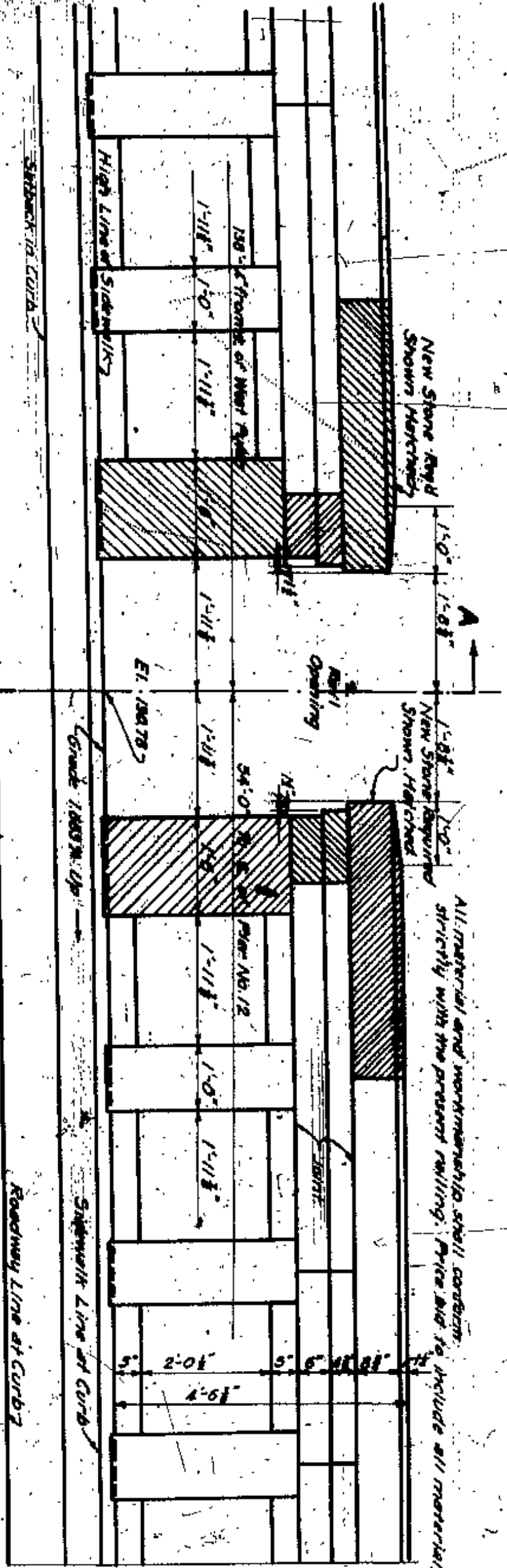






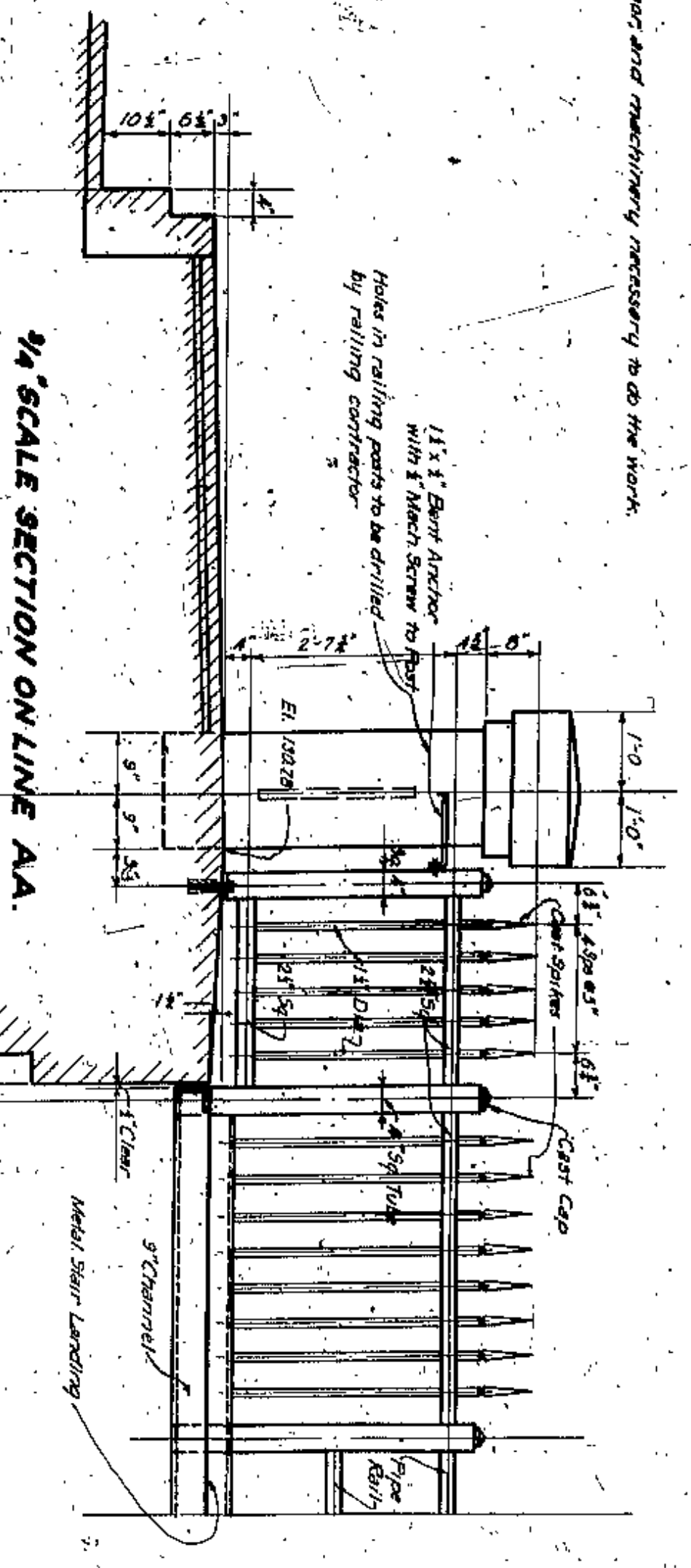




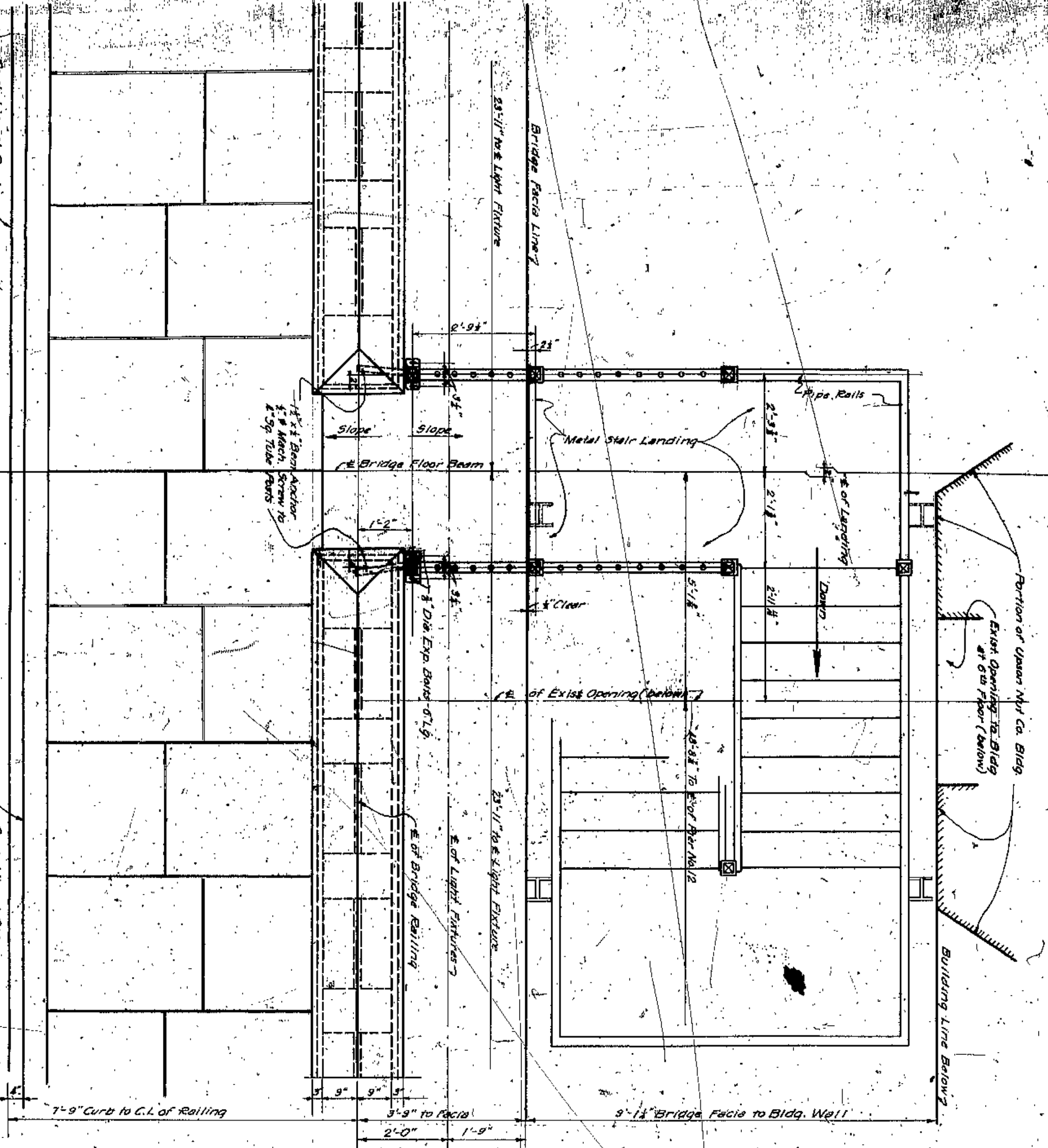


All material and workmanship shall conform directly with the present railing. Price and to include all material, labor and machinery necessary to do the work.

3/4 SCALE INSIDE ELEVATION OF A PORTION OF THE NORTH RAILING OF LORAIN CENTRAL BUILDING SHOWING PROPOSED OPENING TO STAIRWAY DOWN TO SIXTH FLOOR OF UPSON NUT CO. BUILDING



3/4 SCALE SECTION ON LINE AA

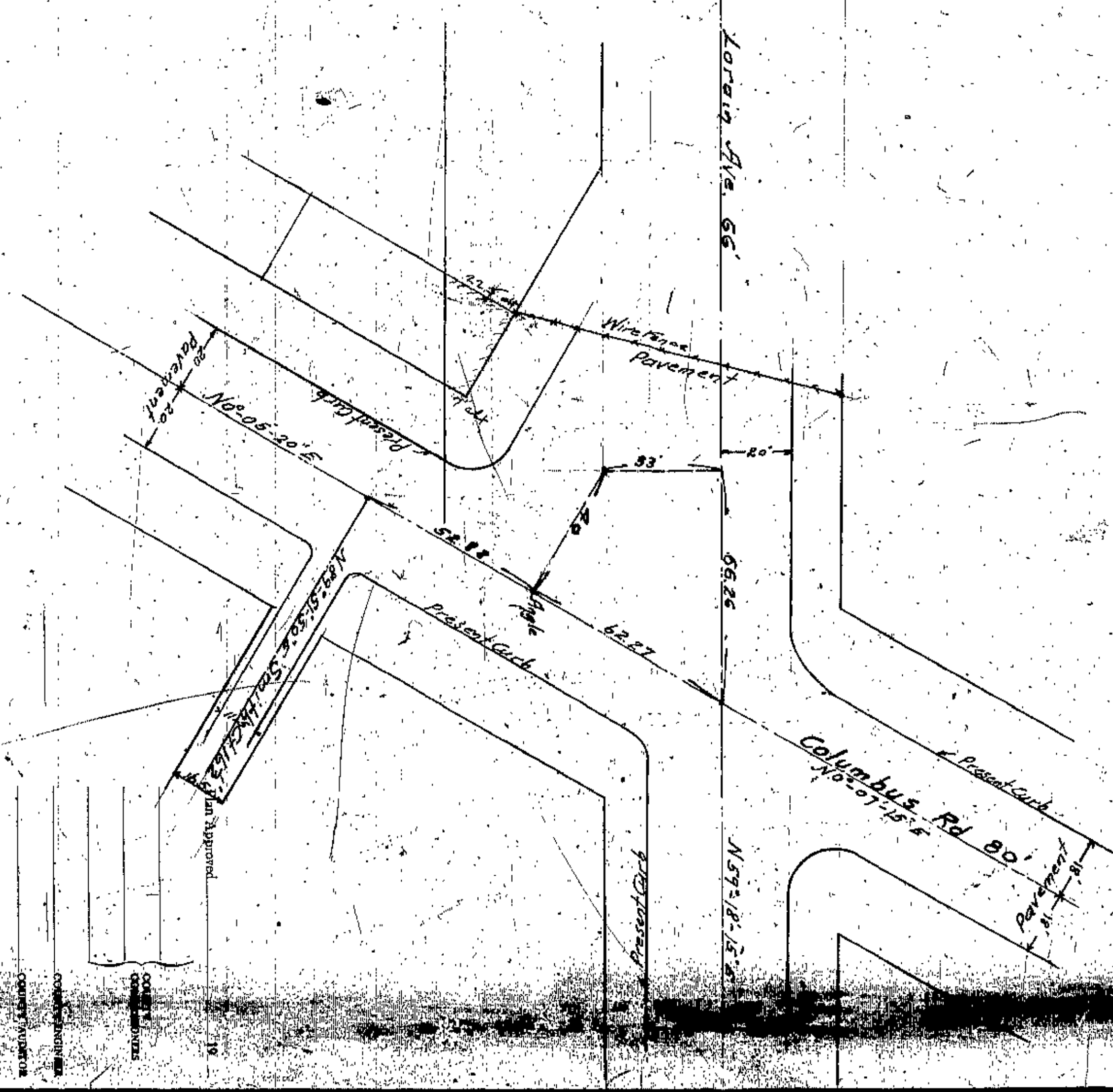


3/4 SCALE PLAN OF NORTH SIDEWALK RAILING AND FACIA OF LORAIN CENTRAL BRIDGE SHOWING PROPOSED OPENING TO STAIRWAY TO UPSON NUT CO. BUILDING

3/4 SCALE DETAILS SHOWING PROPOSED OPENING NORTH RAILING LORAIN CENTRAL BRIDGE AT STAIRWAY TO UPSON NUT CO. BLDG. APRIL 12, 1932 SHEET NO. A104 REV. OCT. 3, 1932

CONSULTING ENGINEERS & ARCHITECTS  
WILBUR WATSON & F.R. WALKER

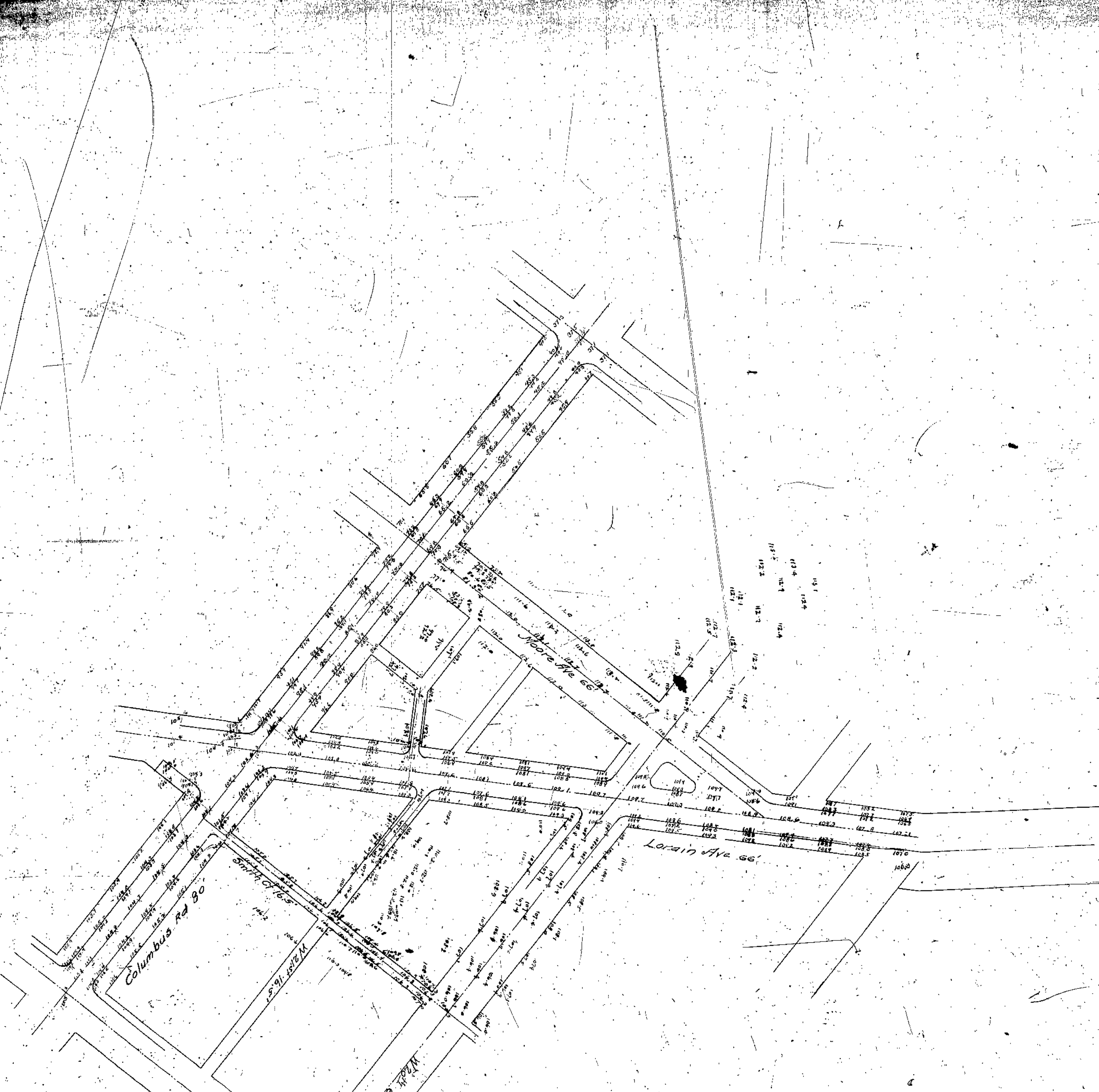




Sheet # 2

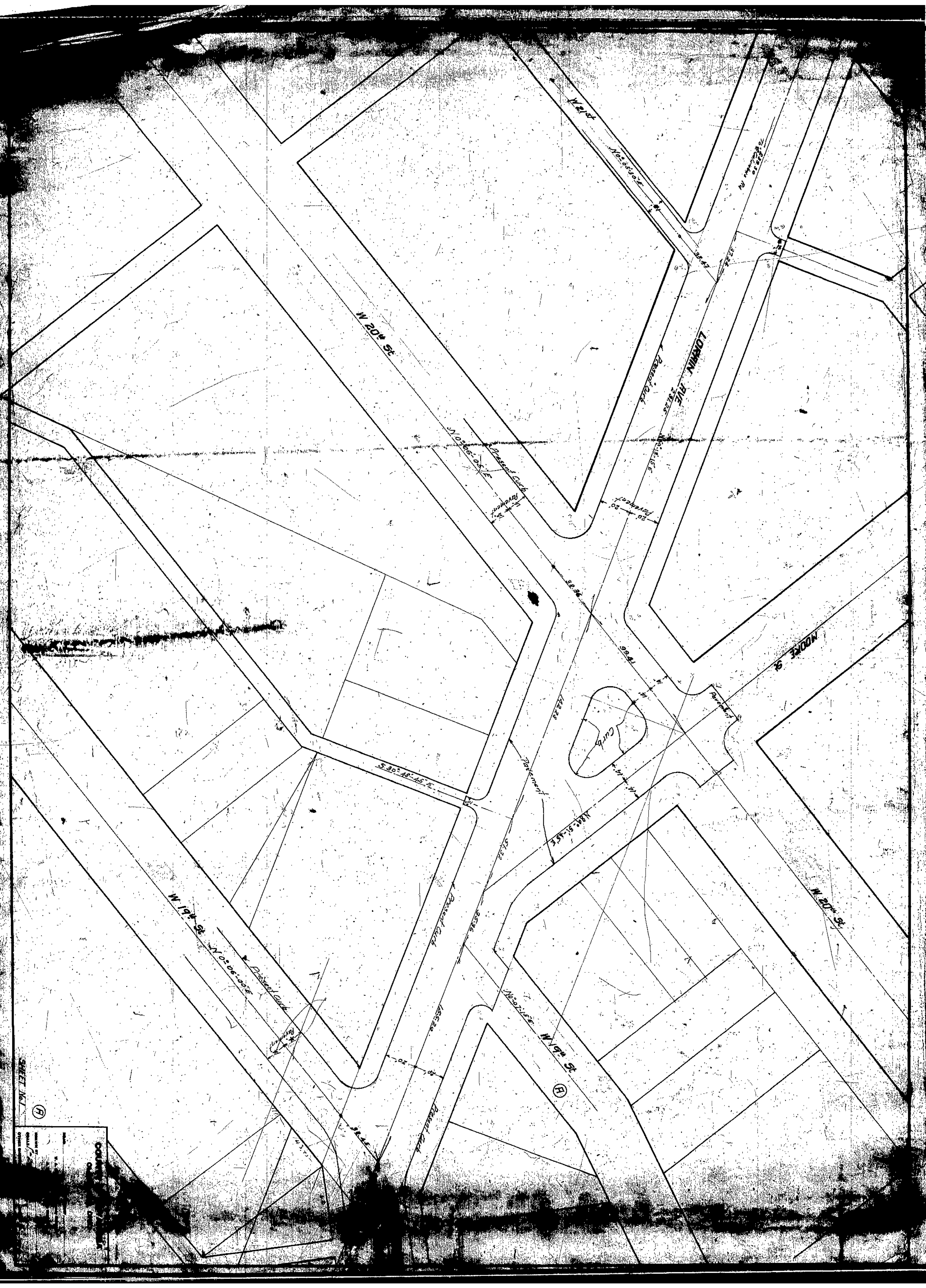
(A)

APPROVED	DATE
_____ FRED B. WILLIAMS, JR. ALSO REGISTERED ENGINEER	_____ A. M. FULTON, JR. REGISTERED ENGINEER
COUNTY OF CUYAHOGA CLEVELAND, OHIO	
ROAD No. _____	SECTION No. _____
CONTOUR MAP	JOB No. _____
DATE _____	BY _____



Elevations of Lorain Ave.  
At Columbus Road May 19, 1930  
Scale 1"=50'





SHEET NO. 1

(B)

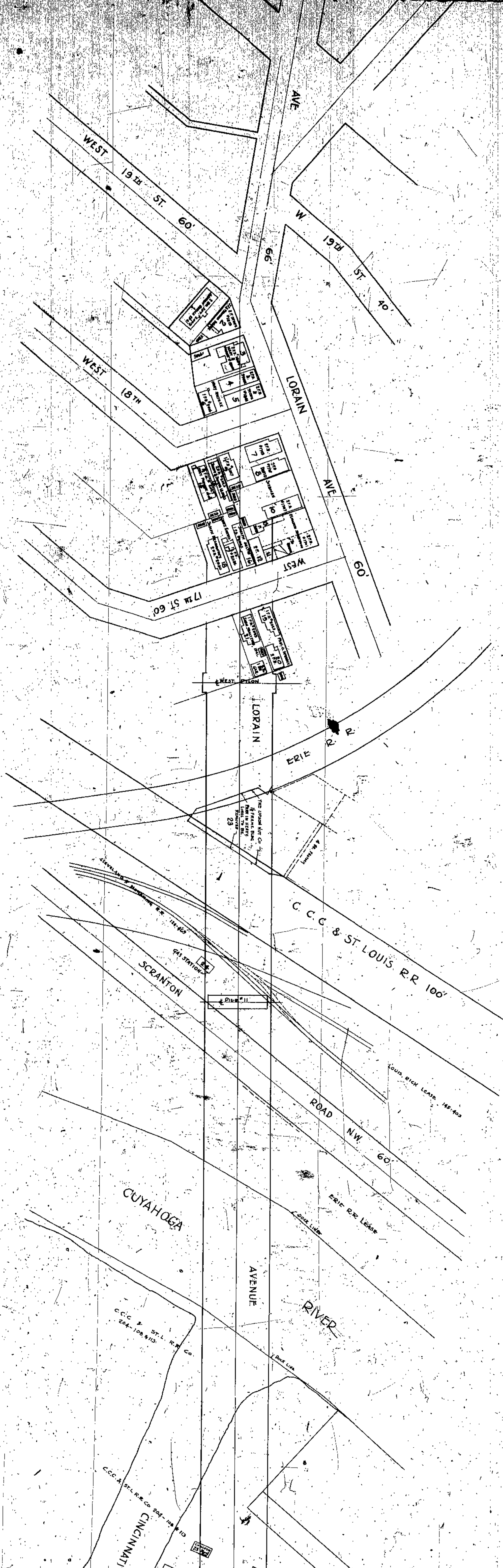
COUNTY OF ...  
 CITY OF ...  
 ENGINEER ...  
 SURVEYOR ...  
 DATE ...

(B)



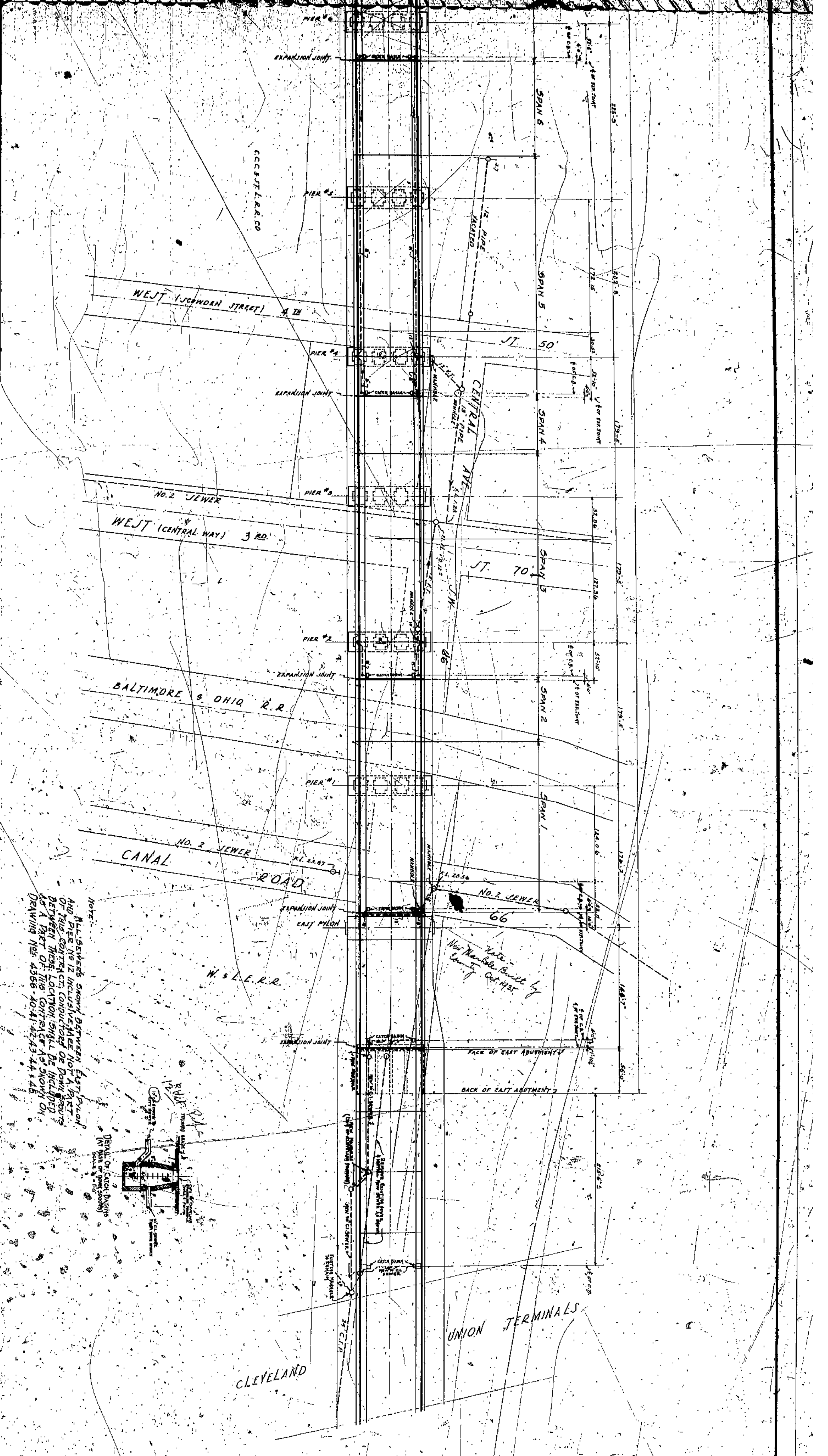




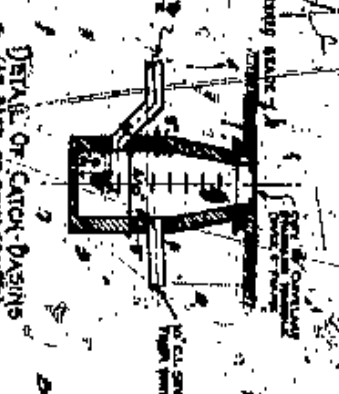








Note:  
 All sections shown between East Pier  
 and Pier No. 12 included. Not to be  
 of this contract. Location of Down Spans  
 between these locations shall be indicated  
 as a part of the contract as shown on  
 Drawing No. 4366-40-41-42-43-44-45



APPROVED BY

CITY ENGINEER

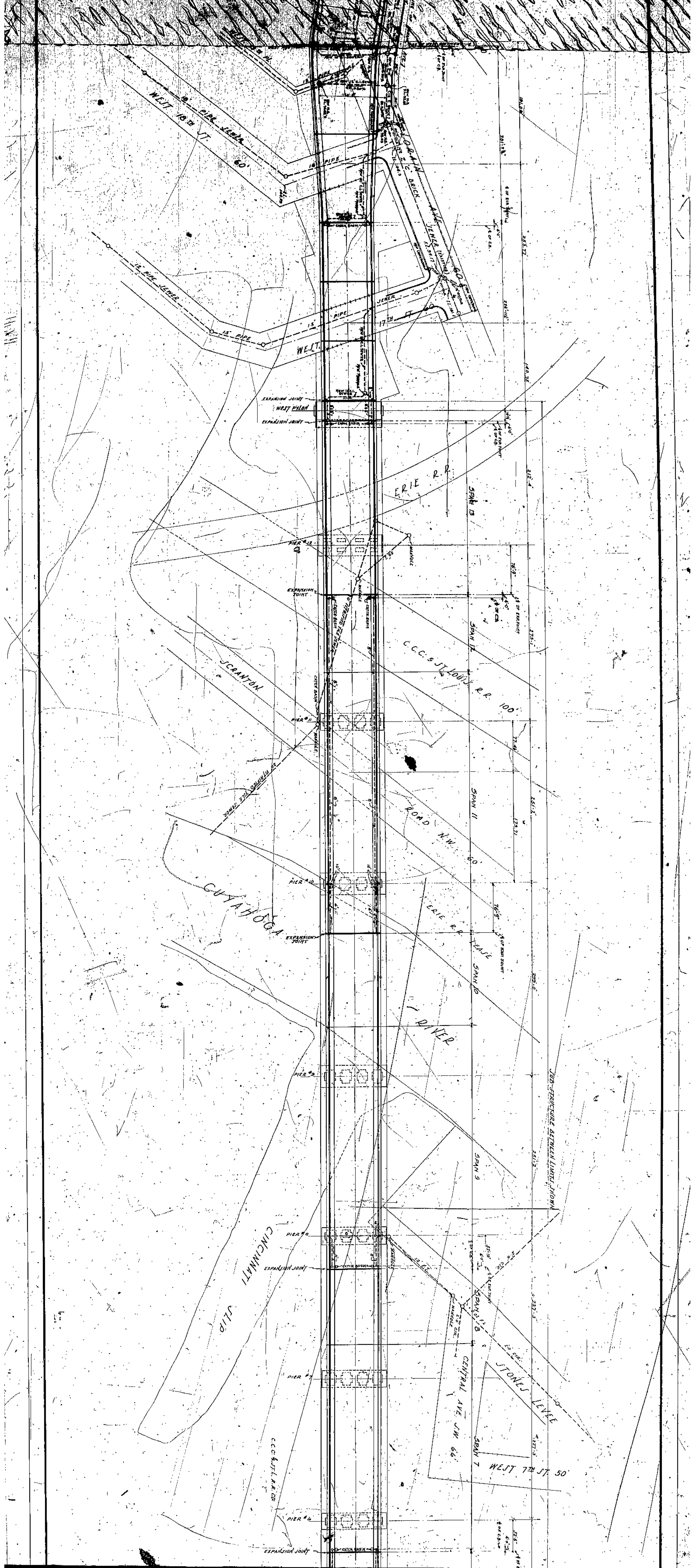
CONTRACTOR

DATE

SCALE

PROJECT

CITY OF CLEVELAND	
BOARD OF COMMISSIONERS	COMMISSIONER
J. H. HARRIS	W. E. COOK
COUNTY ENGINEER	
A. W. HARRIS	
LORAIN CENTRAL BRIDGE	
CLEVELAND	
GENERAL LAYOUT OF DRAINAGE	
FIELD 1-30-18 AND SEWER	
DRAWN BY WALTER WATSON AND J. H. HARRIS	
CHECKED BY W. E. COOK	
DATE 1-30-18	
SCALE 1" = 100'	
PROJECT NO. 4366-40-41-42-43-44-45	
DRAWING NO. 4366-40-41-42-43-44-45	





CLEVELAND UNION

COLUMBUS ROAD 50'

TERMINALS CO.

LORAIN

MOORE AVE. 66'

WEST 20th ST. 66'

WEST 19th ST. 60'

WEST 18th ST. 60'

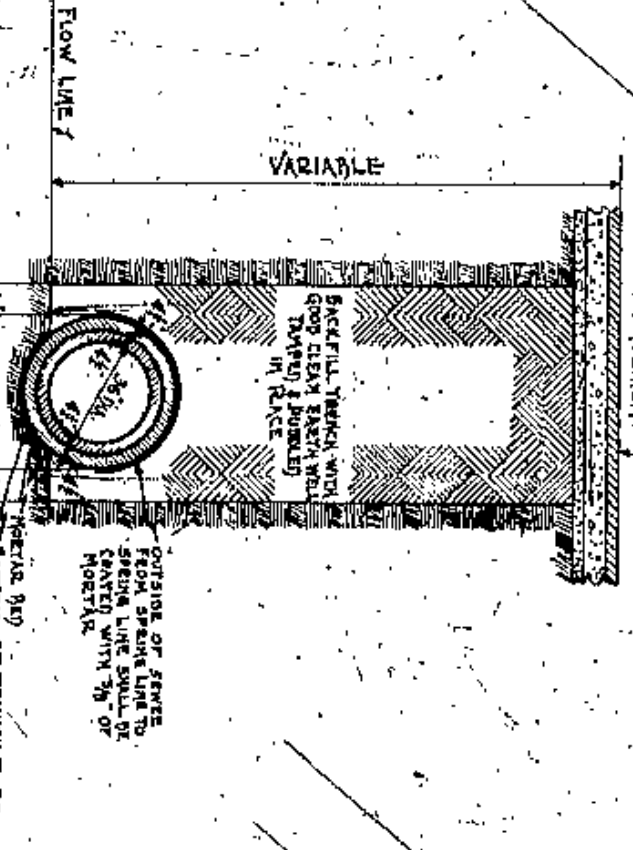
WEST 17th ST. 60'

WEST 16th ST. 60'

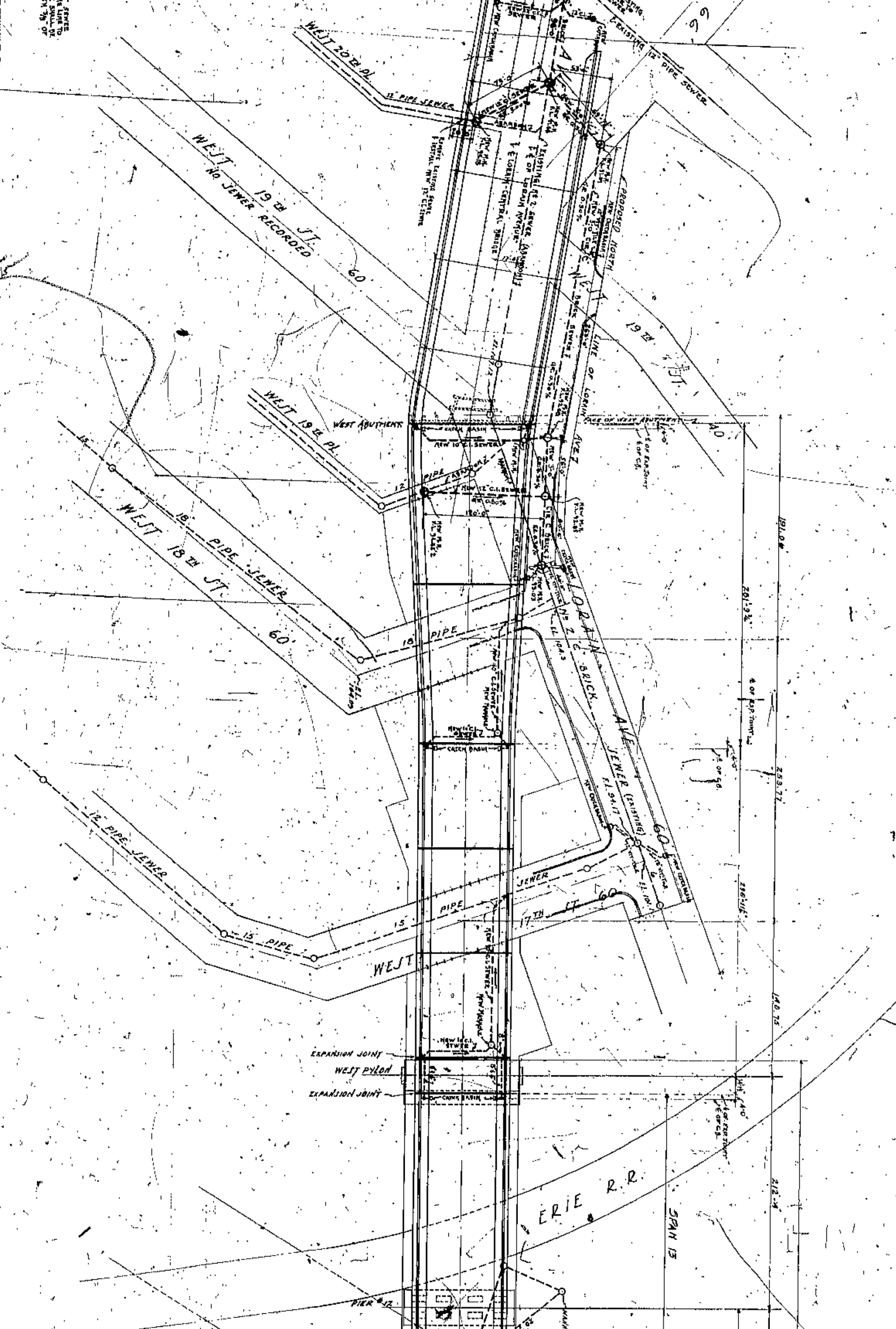
WEST 15th ST. 60'

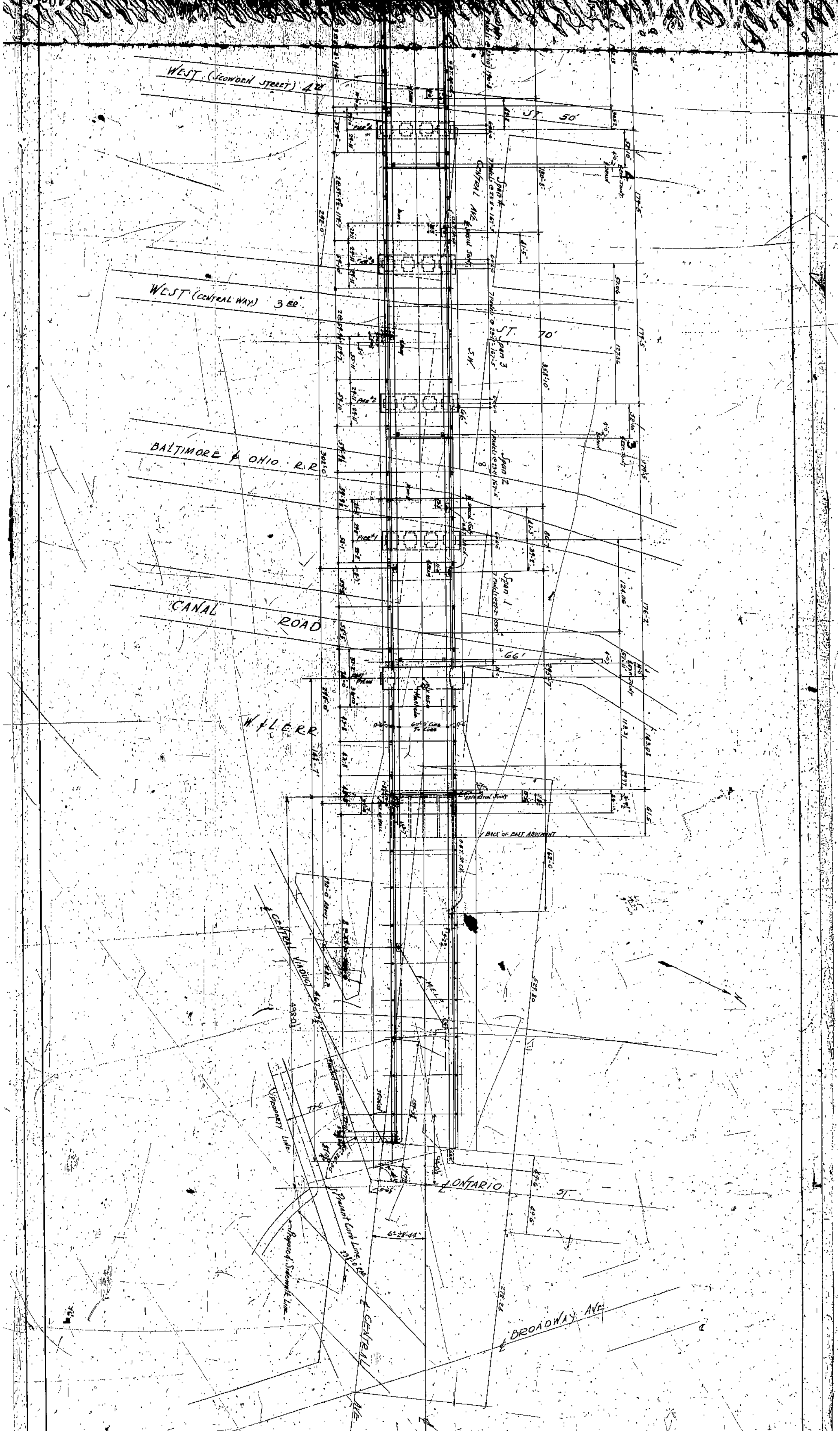
WEST 14th ST. 60'


ERIE R.R.



DETAIL # 36 CIRCULAR C BRICK SEWER  
SCALE 1/4"





APPROVED BY  
  
 W. B. WATSON  
 ENGINEER  
 4237 CLEVELAND  
 CLEVELAND, OHIO

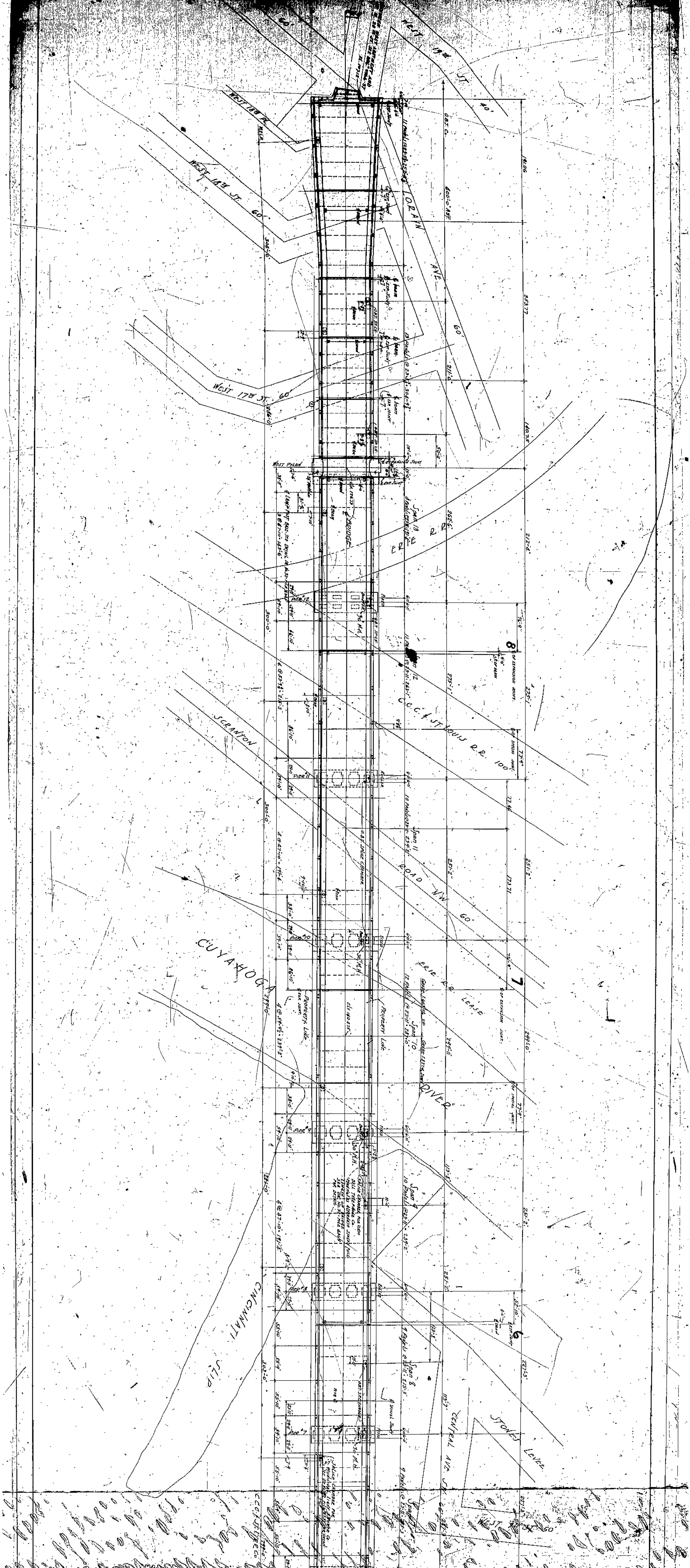
FILE NO. 4237  
 SCALE 1"=50'  
 LOCATION OF BRIDGE AND RAILROAD  
 FOR PUBLIC UTILITIES AND  
 CLEVELAND, OHIO

DATE	1914
BY	W. B. WATSON
CHECKED BY	J. H. HARRIS
APPROVED BY	W. B. WATSON
DATE	1914
BY	J. H. HARRIS
CHECKED BY	W. B. WATSON
APPROVED BY	W. B. WATSON
DATE	1914
BY	J. H. HARRIS
CHECKED BY	W. B. WATSON
APPROVED BY	W. B. WATSON

BOARD OF COMMISSIONERS  
 CUYAHOGA COUNTY  
 J. H. HARRIS  
 COUNTY ENGINEER  
 CLEVELAND, OHIO

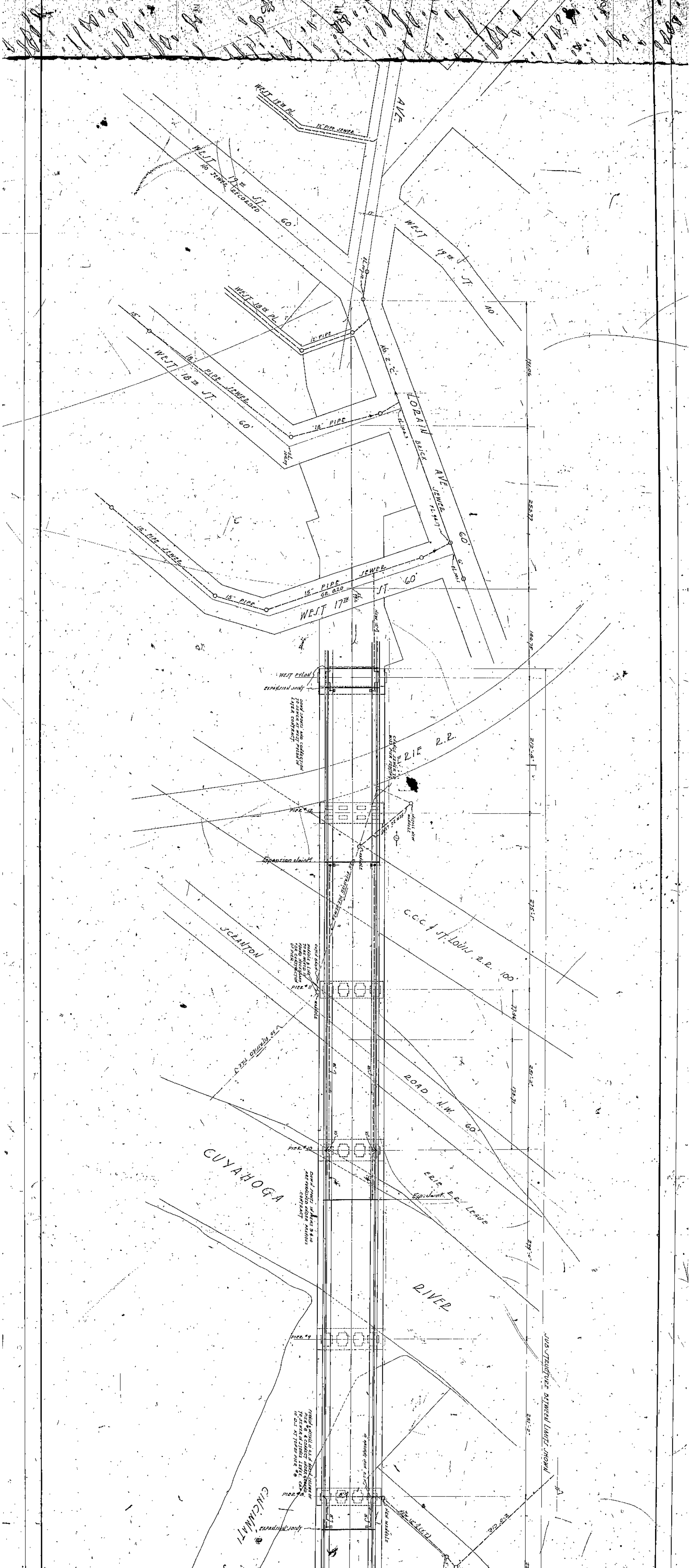
LORAIN CENTRAL  
 CLEVELAND, OHIO





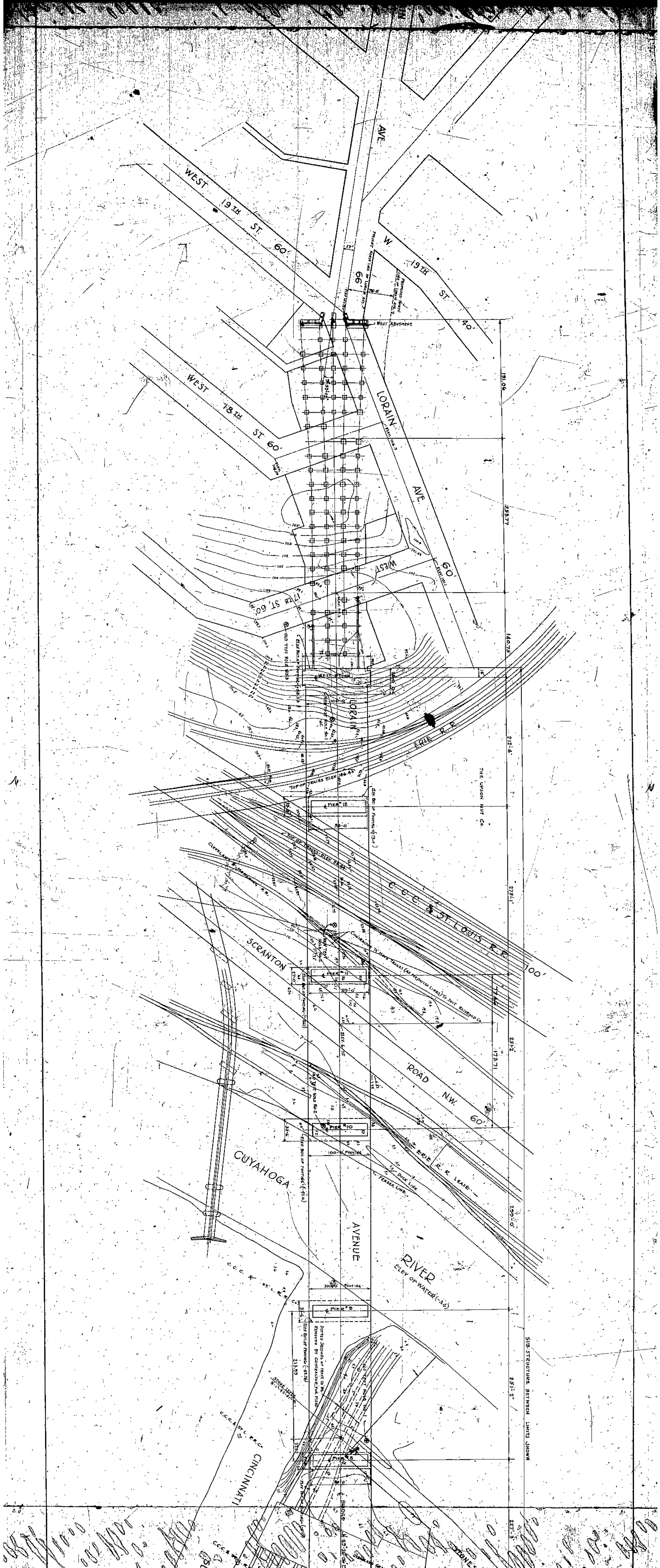




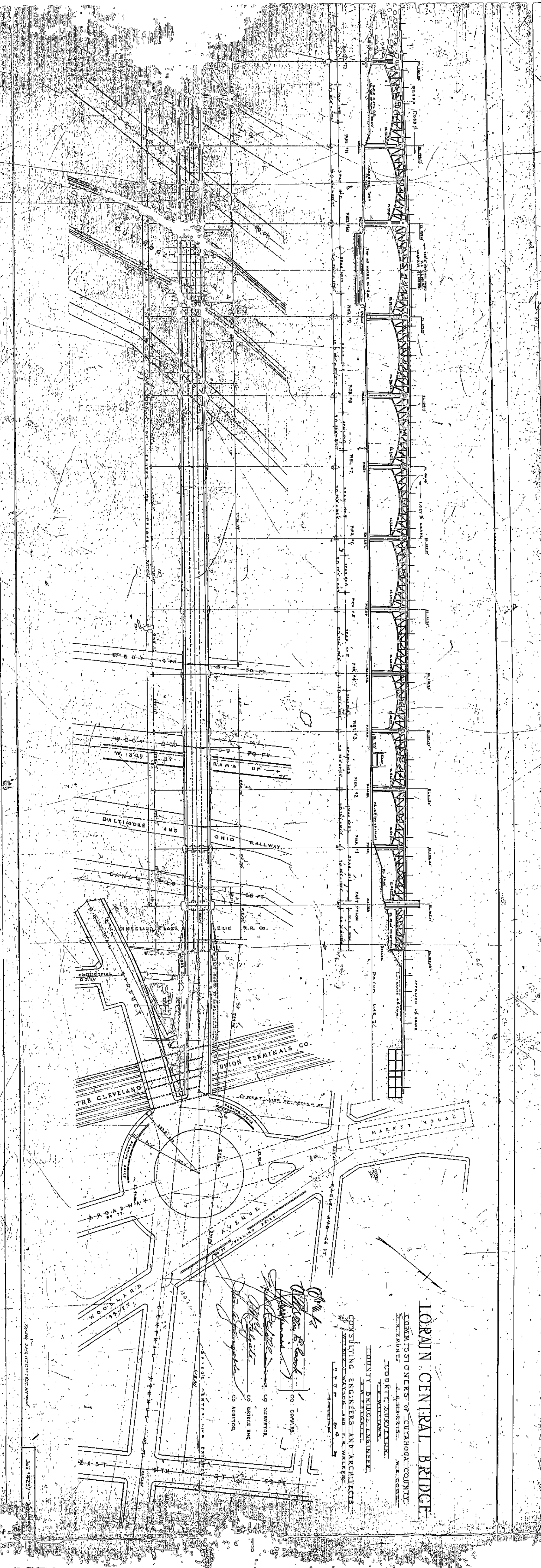












**LORAIN CENTRAL BRIDGE**

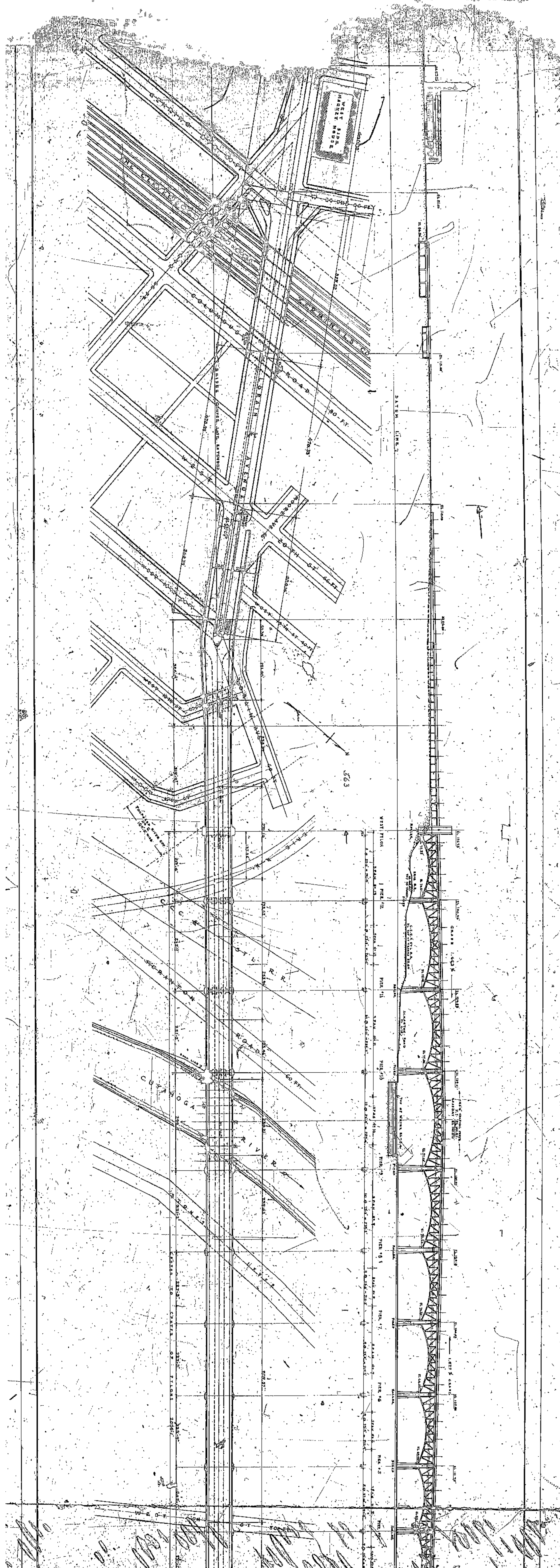
COMMISSIONERS OF CUYAHOGA COUNTY  
 CLEVELAND, OHIO  
 COUNTY SURVEYOR  
 W. W. WILLIAMS

CONSULTING ENGINEERS AND ARCHITECTS  
 EDWIN T. BRIDGE ENGINEER  
 J. M. FLETCHER  
 W. W. WILLIAMS

*W. W. Williams*  
 CO. COM'RS.  
*W. W. Williams*  
 CO. SURVEYOR  
*W. W. Williams*  
 CO. BRIDGE ENG.  
*W. W. Williams*  
 CO. ARCHT.

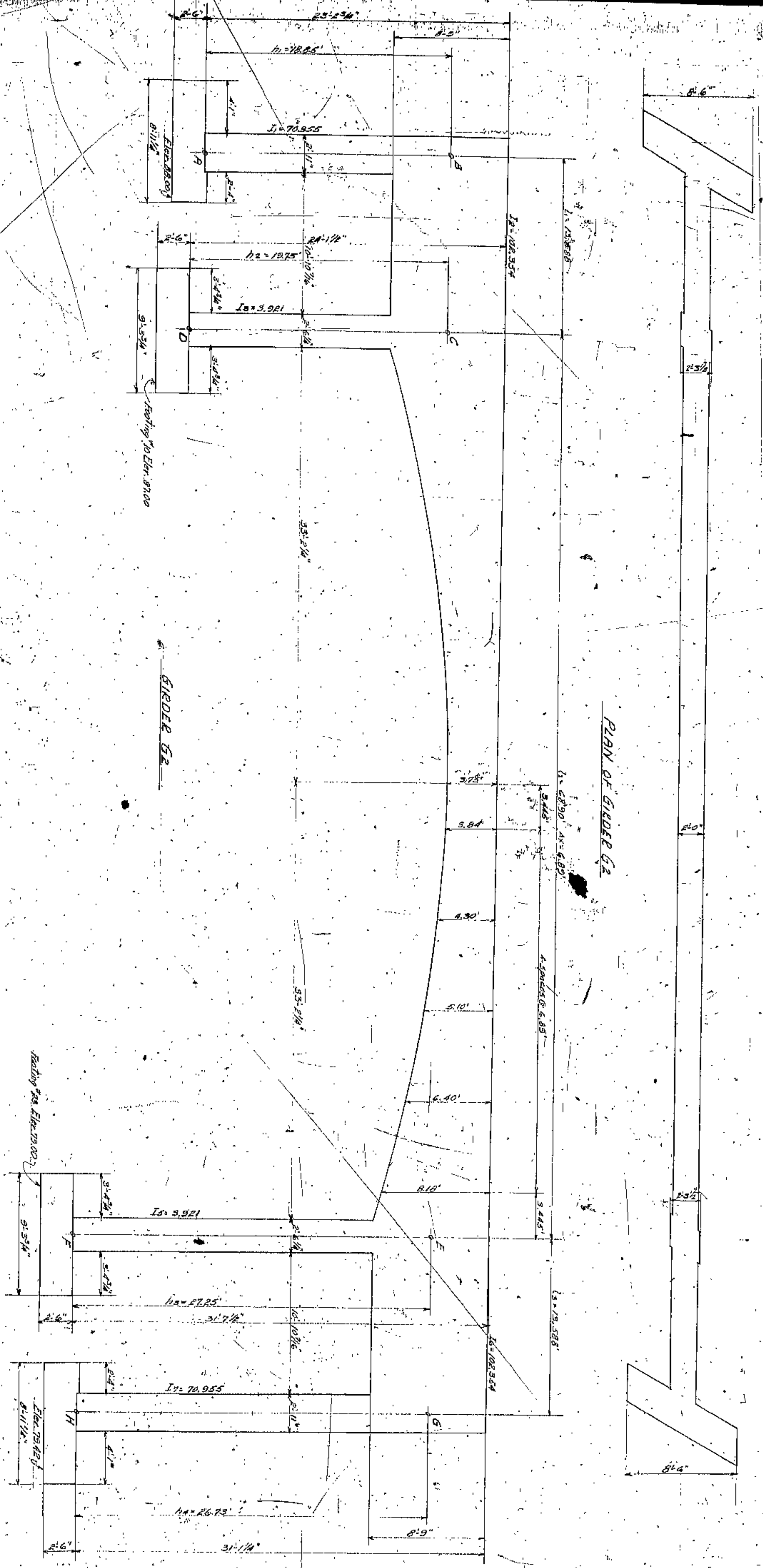
JUL 1893





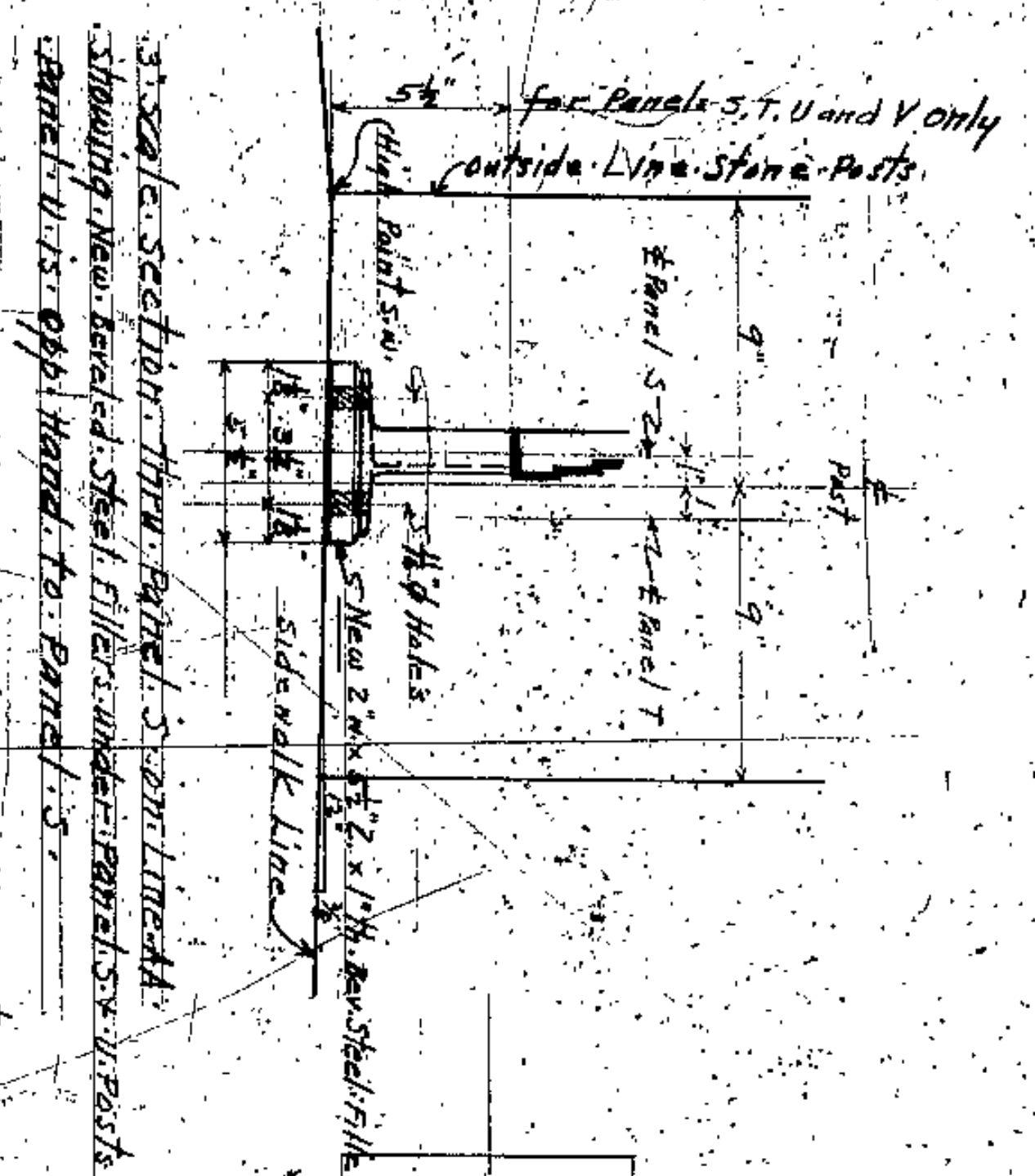
Load	Location	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
5000 lb./lin. ft.	0+00 to 0+100	18000	13000	17000	12000	16000	11000	15000	10000	14000	9000	13000	8000	12000	7000	11000	6000	10000	5000	9000
700 lb./sq. ft.	0+00 to 0+100	13000	9000	12000	8000	11000	7000	10000	6000	9000	5000	8000	4000	7000	3000	6000	2000	5000	1000	4000
400 lb./sq. ft.	0+00 to 0+100	8000	6000	7000	5000	6000	4000	5000	3000	4000	2000	3000	1000	2000	1000	1000	500	1000	500	500
200 lb./sq. ft.	0+00 to 0+100	4000	3000	3500	2500	3000	2000	2500	1500	2000	1000	1500	500	1000	500	500	250	500	250	250
100 lb./sq. ft.	0+00 to 0+100	2000	1500	1750	1250	1500	1000	1250	750	1000	500	750	250	500	250	250	125	250	125	125
5000 lb./lin. ft.	0+100 to 0+200	18000	13000	17000	12000	16000	11000	15000	10000	14000	9000	13000	8000	12000	7000	11000	6000	10000	5000	9000
700 lb./sq. ft.	0+100 to 0+200	13000	9000	12000	8000	11000	7000	10000	6000	9000	5000	8000	4000	7000	3000	6000	2000	5000	1000	4000
400 lb./sq. ft.	0+100 to 0+200	8000	6000	7000	5000	6000	4000	5000	3000	4000	2000	3000	1000	2000	1000	1000	500	1000	500	500
200 lb./sq. ft.	0+100 to 0+200	4000	3000	3500	2500	3000	2000	2500	1500	2000	1000	1500	500	1000	500	500	250	500	250	250
100 lb./sq. ft.	0+100 to 0+200	2000	1500	1750	1250	1500	1000	1250	750	1000	500	750	250	500	250	250	125	250	125	125
5000 lb./lin. ft.	0+200 to 0+300	18000	13000	17000	12000	16000	11000	15000	10000	14000	9000	13000	8000	12000	7000	11000	6000	10000	5000	9000
700 lb./sq. ft.	0+200 to 0+300	13000	9000	12000	8000	11000	7000	10000	6000	9000	5000	8000	4000	7000	3000	6000	2000	5000	1000	4000
400 lb./sq. ft.	0+200 to 0+300	8000	6000	7000	5000	6000	4000	5000	3000	4000	2000	3000	1000	2000	1000	1000	500	1000	500	500
200 lb./sq. ft.	0+200 to 0+300	4000	3000	3500	2500	3000	2000	2500	1500	2000	1000	1500	500	1000	500	500	250	500	250	250
100 lb./sq. ft.	0+200 to 0+300	2000	1500	1750	1250	1500	1000	1250	750	1000	500	750	250	500	250	250	125	250	125	125
5000 lb./lin. ft.	0+300 to 0+400	18000	13000	17000	12000	16000	11000	15000	10000	14000	9000	13000	8000	12000	7000	11000	6000	10000	5000	9000
700 lb./sq. ft.	0+300 to 0+400	13000	9000	12000	8000	11000	7000	10000	6000	9000	5000	8000	4000	7000	3000	6000	2000	5000	1000	4000
400 lb./sq. ft.	0+300 to 0+400	8000	6000	7000	5000	6000	4000	5000	3000	4000	2000	3000	1000	2000	1000	1000	500	1000	500	500
200 lb./sq. ft.	0+300 to 0+400	4000	3000	3500	2500	3000	2000	2500	1500	2000	1000	1500	500	1000	500	500	250	500	250	250
100 lb./sq. ft.	0+300 to 0+400	2000	1500	1750	1250	1500	1000	1250	750	1000	500	750	250	500	250	250	125	250	125	125
5000 lb./lin. ft.	0+400 to 0+500	18000	13000	17000	12000	16000	11000	15000	10000	14000	9000	13000	8000	12000	7000	11000	6000	10000	5000	9000
700 lb./sq. ft.	0+400 to 0+500	13000	9000	12000	8000	11000	7000	10000	6000	9000	5000	8000	4000	7000	3000	6000	2000	5000	1000	4000
400 lb./sq. ft.	0+400 to 0+500	8000	6000	7000	5000	6000	4000	5000	3000	4000	2000	3000	1000	2000	1000	1000	500	1000	500	500
200 lb./sq. ft.	0+400 to 0+500	4000	3000	3500	2500	3000	2000	2500	1500	2000	1000	1500	500	1000	500	500	250	500	250	250
100 lb./sq. ft.	0+400 to 0+500	2000	1500	1750	1250	1500	1000	1250	750	1000	500	750	250	500	250	250	125	250	125	125

Moments given in ft. lbs.



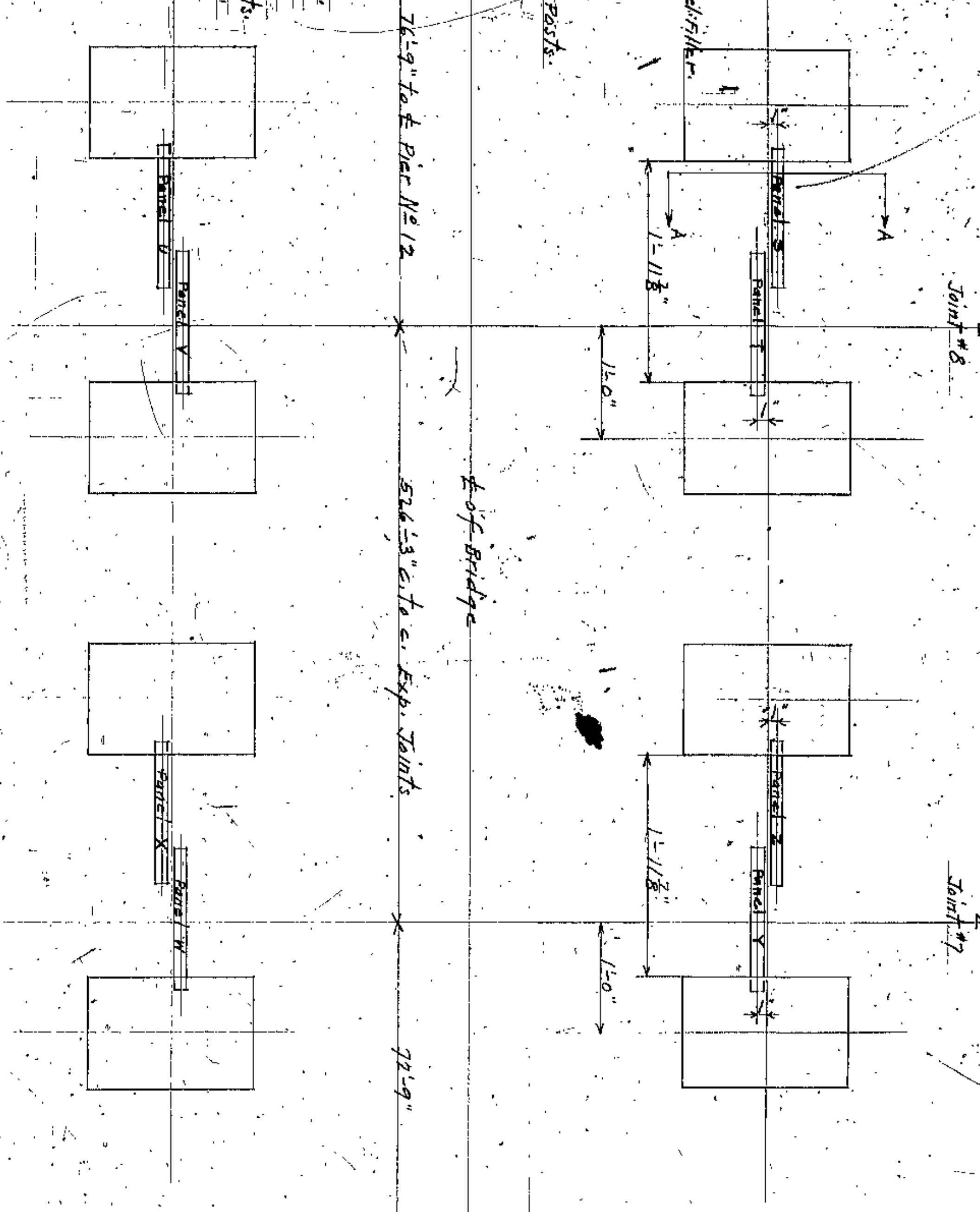
COYAHOGA COUNTY  
CLEVELAND, OHIO  
LORAIN - CENTRAL BRIDGE  
DIMENSIONS IN GIRDER G2  
DATE: 10/19/31 SCALE: 1/4" = 1'-0" M.H.K.





Scale section thru Panel 5 and sidewalk showing new level steel filler under panels & joints. Panel 4 is opp. head to Panel 5.

Note: Panels 5 and 6 were detailed and cast to set in sidewalk exp. plate. In new location of exp. joint # 8, Panels 5 and 6 are in sidewalk exp. plate. These Panels 5, 7, U and V they must be set 1/2" higher than detailed in the new 2 1/2" x 1" thick level steel filler required under Panel 5 & joints. For details of Panel 5 see John Almirco Draw No. 6.



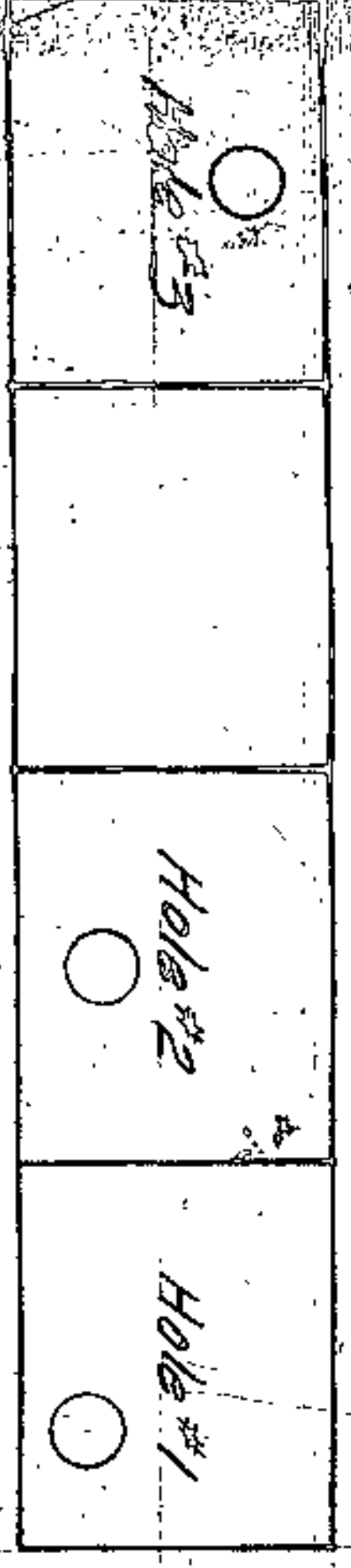
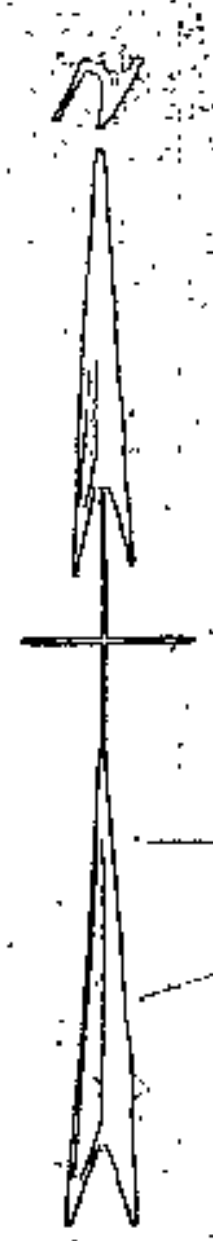
Change of Grade

East

Revised Erection Diagram for Rating. Exp. Joints #7 and #8 to make same conform to sheet No. 12 of file #4137 as revised 4-9-31.

Note: see John Almirco Draw No. 6 for Erection Diagram for these Panels for former location of Exp. Joints #7 and #8.

Lorain Central Bridge  
 Consulting Engineers and Architects  
 Wilbur, Watson and F. B. Walker  
 June 7, 1932  
 Sheet No. 84-B

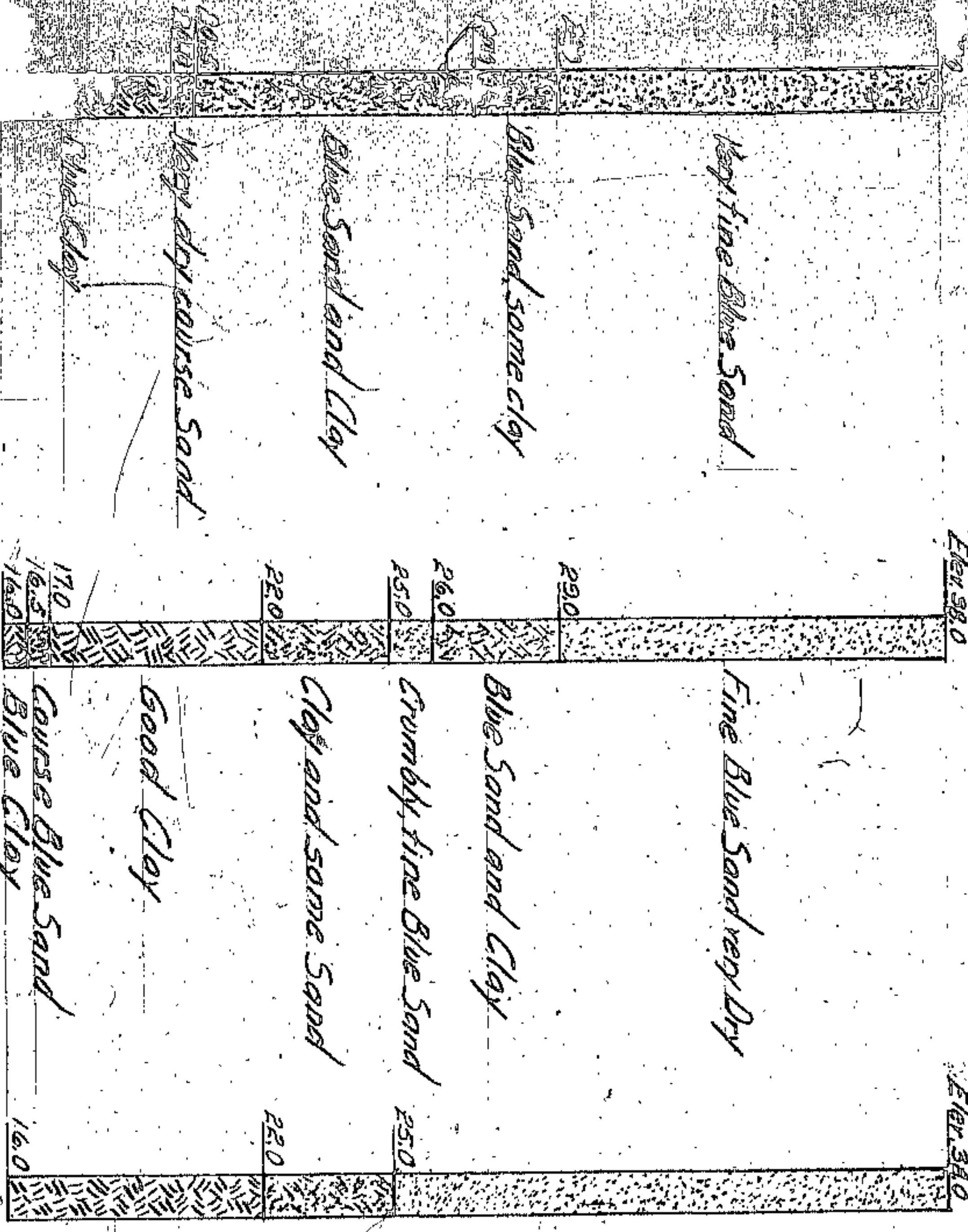


LOCATION PLAN

HOLE #1

HOLE #2

HOLE #3

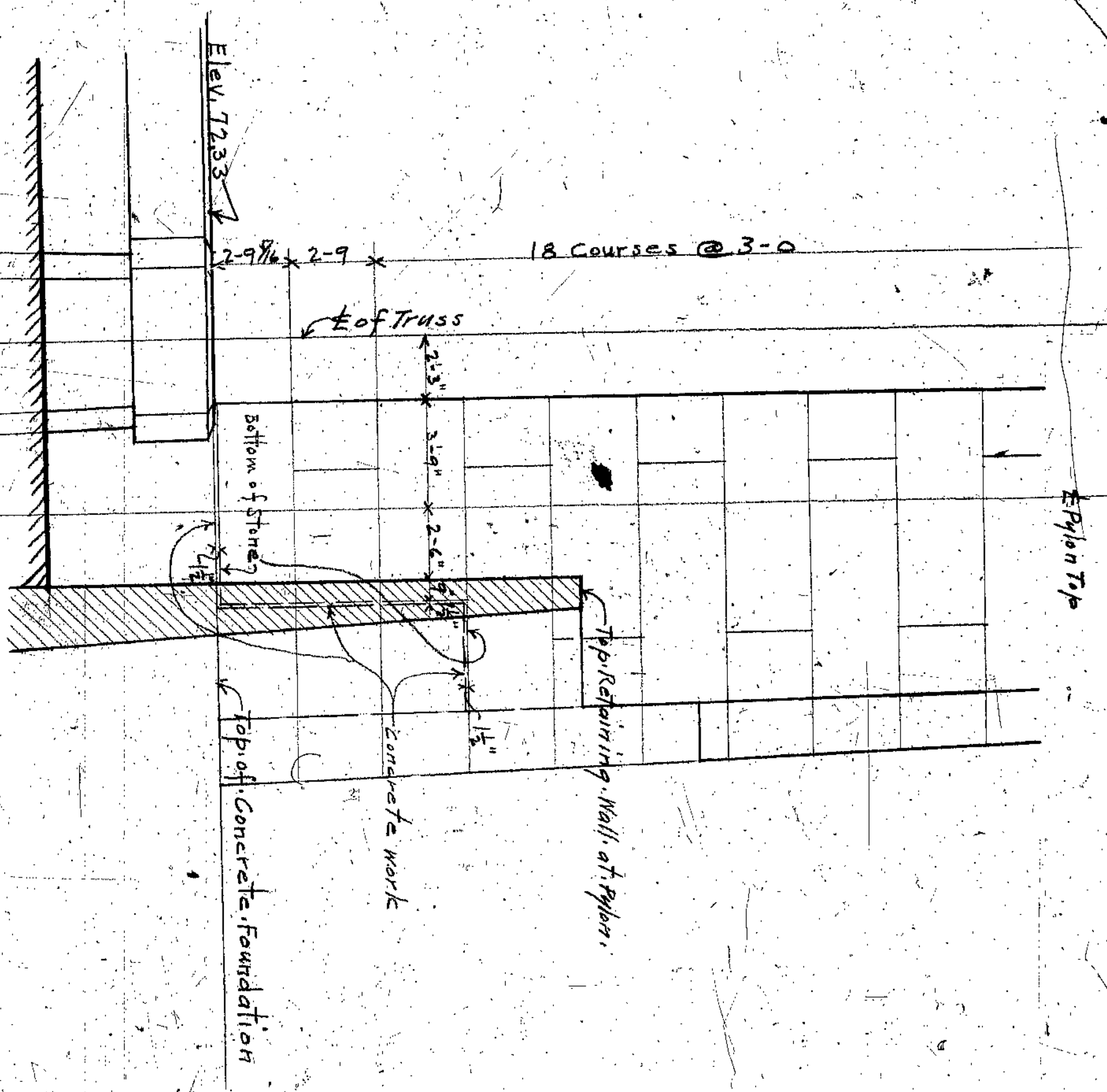


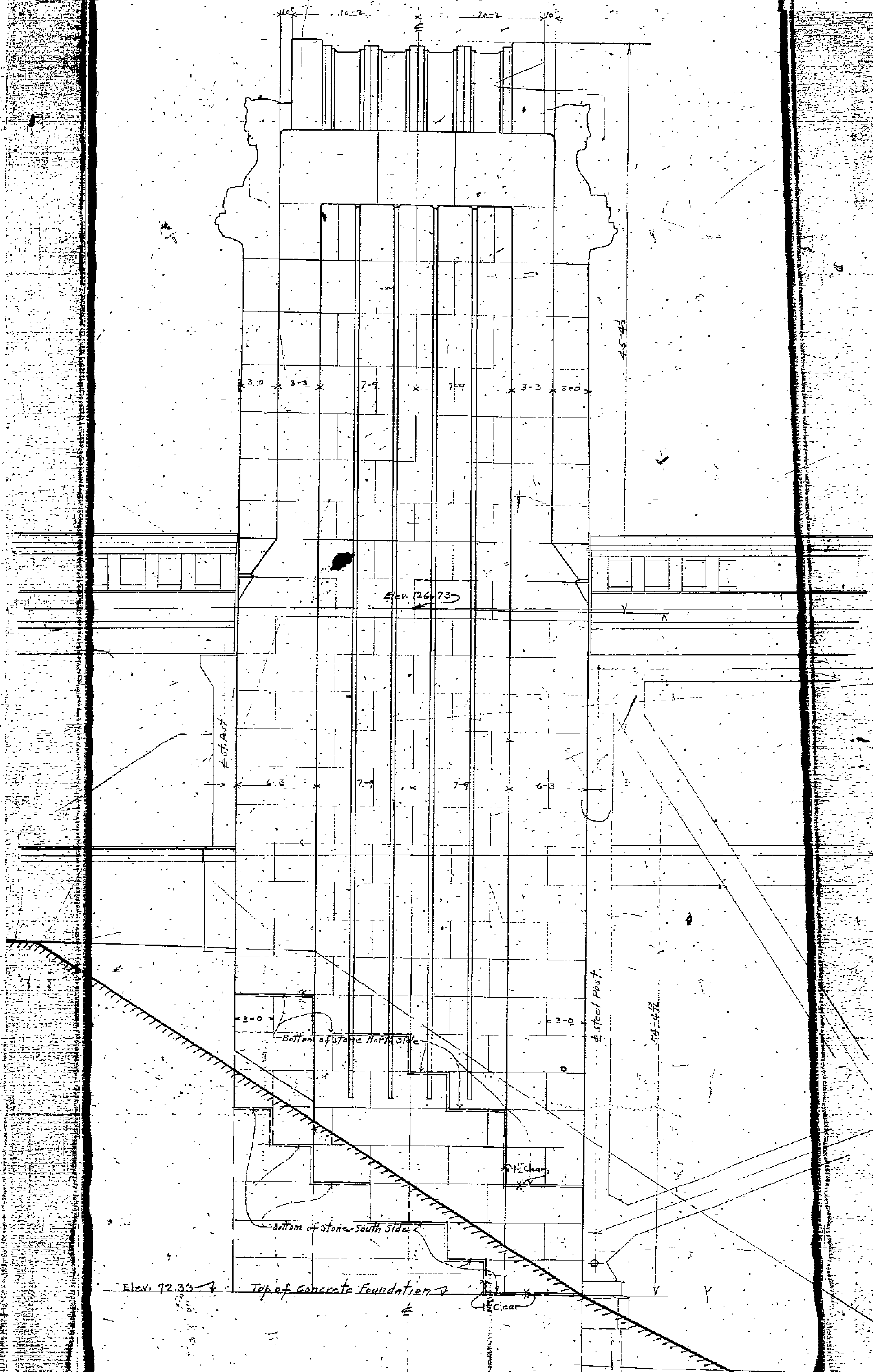
NOTE:  
No water in any Hole.

COUNTY OF CUYAHOGA  
CLEVELAND OHIO  
TEST BORINGS IN CDD  
LORAIN-CENTRAL



REVISED ELEVATION OF EAST FACE OF NORTH WEST PYLON AT BOTTOM  
MAY 15 1931. SHOWING PROPOSED JOINTING SHEET No. A.C.  
IORAIN CENTRAL BRIDGE.





REVISED ELEVATION OF SOUTH WEST PYLON  
 SHOWING PROPOSED JOINTING  
 MAY 15 1931 LORAIN CENTRAL BRIDGE sheet No. A1.1



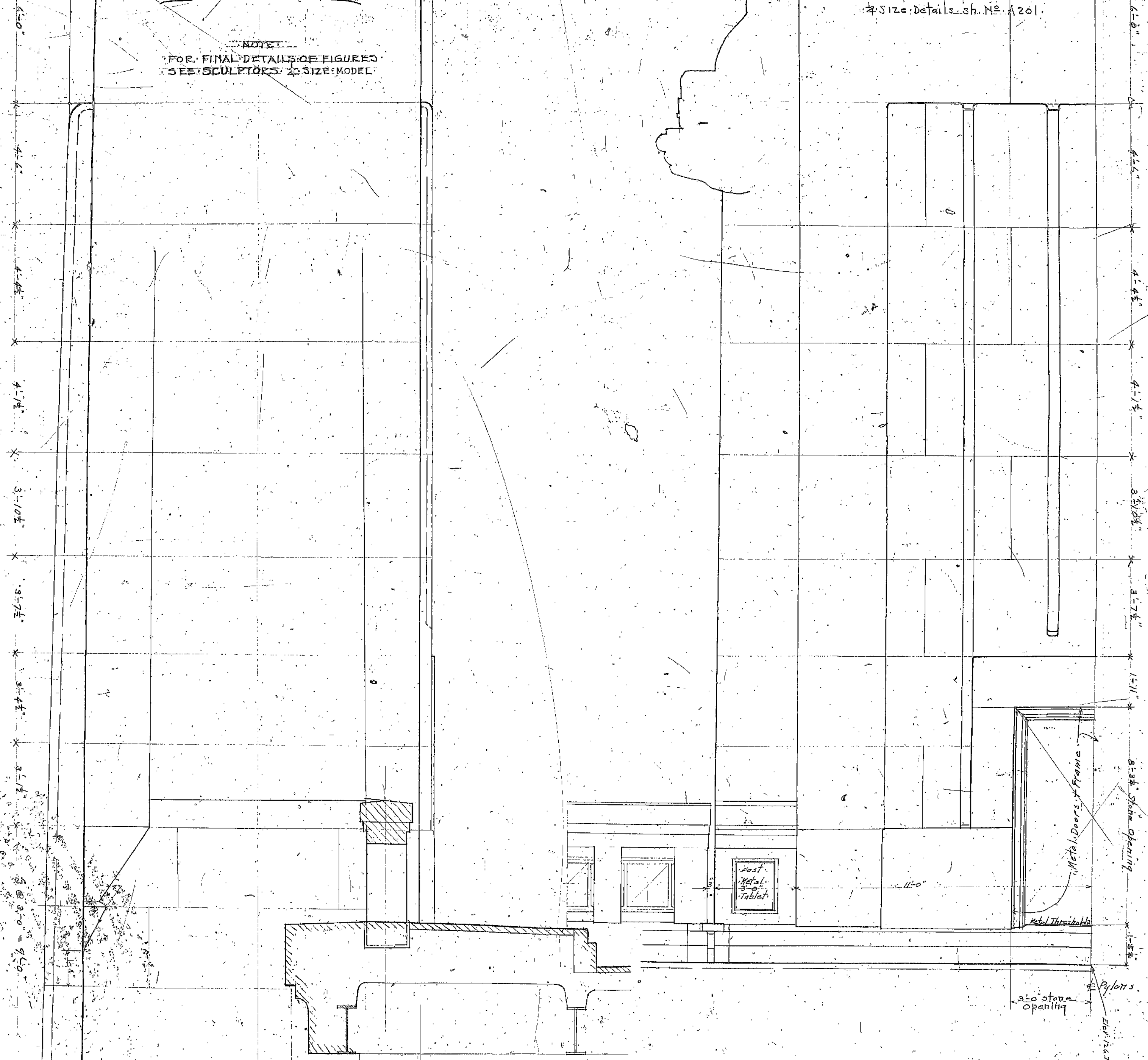
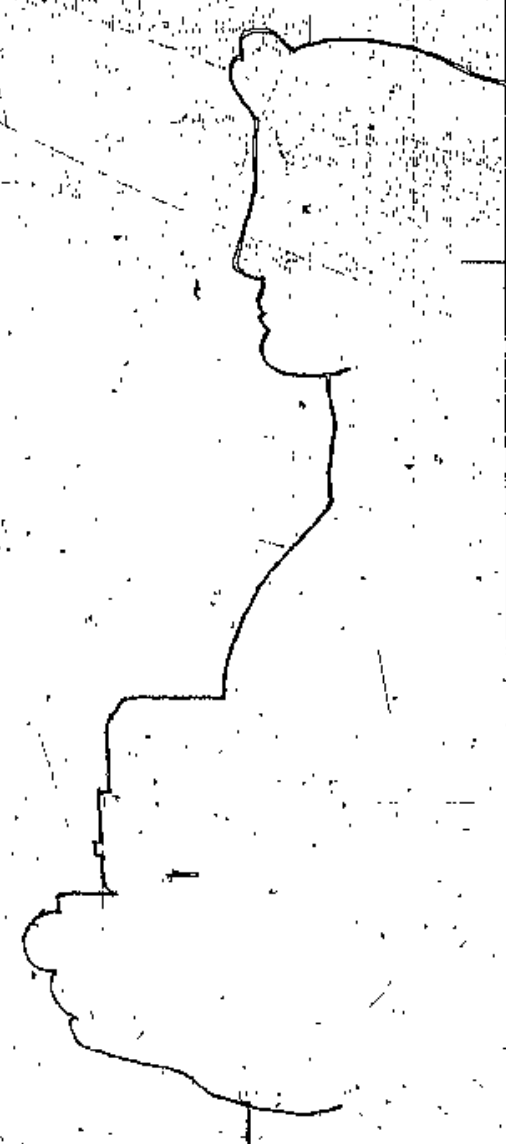






NOTE:  
FOR FINAL DETAILS OF FIGURES  
SEE SCULPTORS' & SIZE MODEL

For Final Details of  
Wing Carving See  
Size Details sh. No. A201.



REVISED STONE JOINTING SOUTH WEST PYLON

3/4" scale TYPICAL

LORAIN CENTRAL BRIDGE

Truss

3-9

2-3

27-9/32



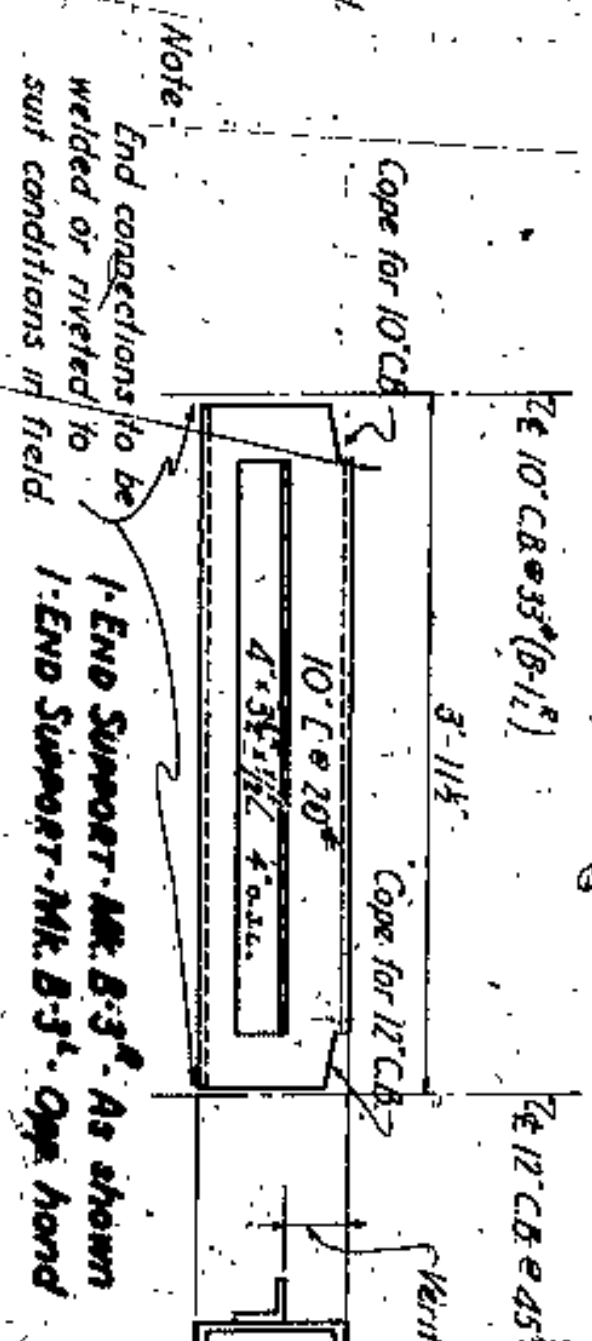
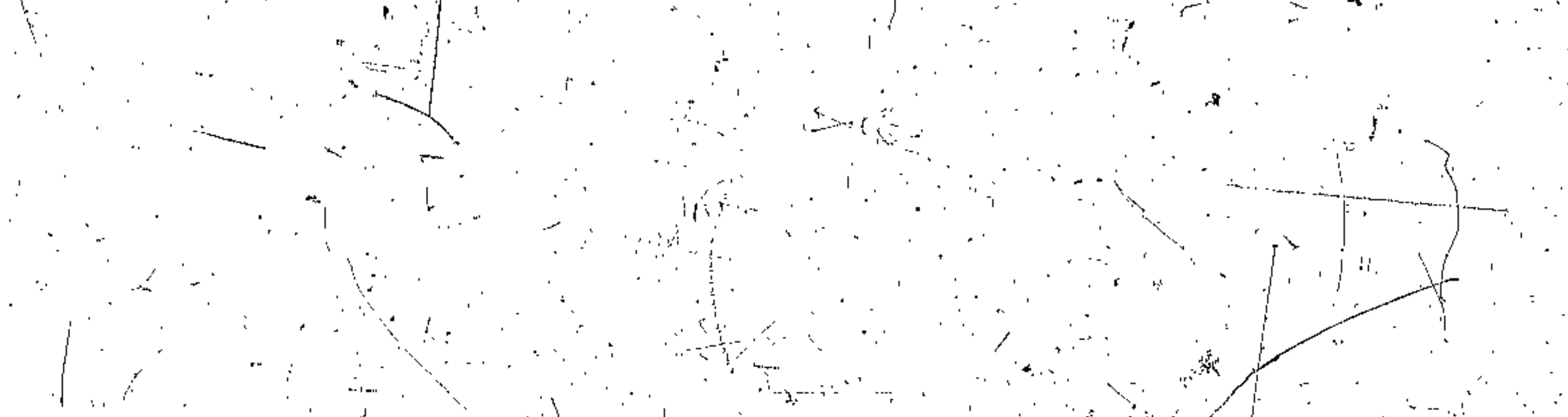
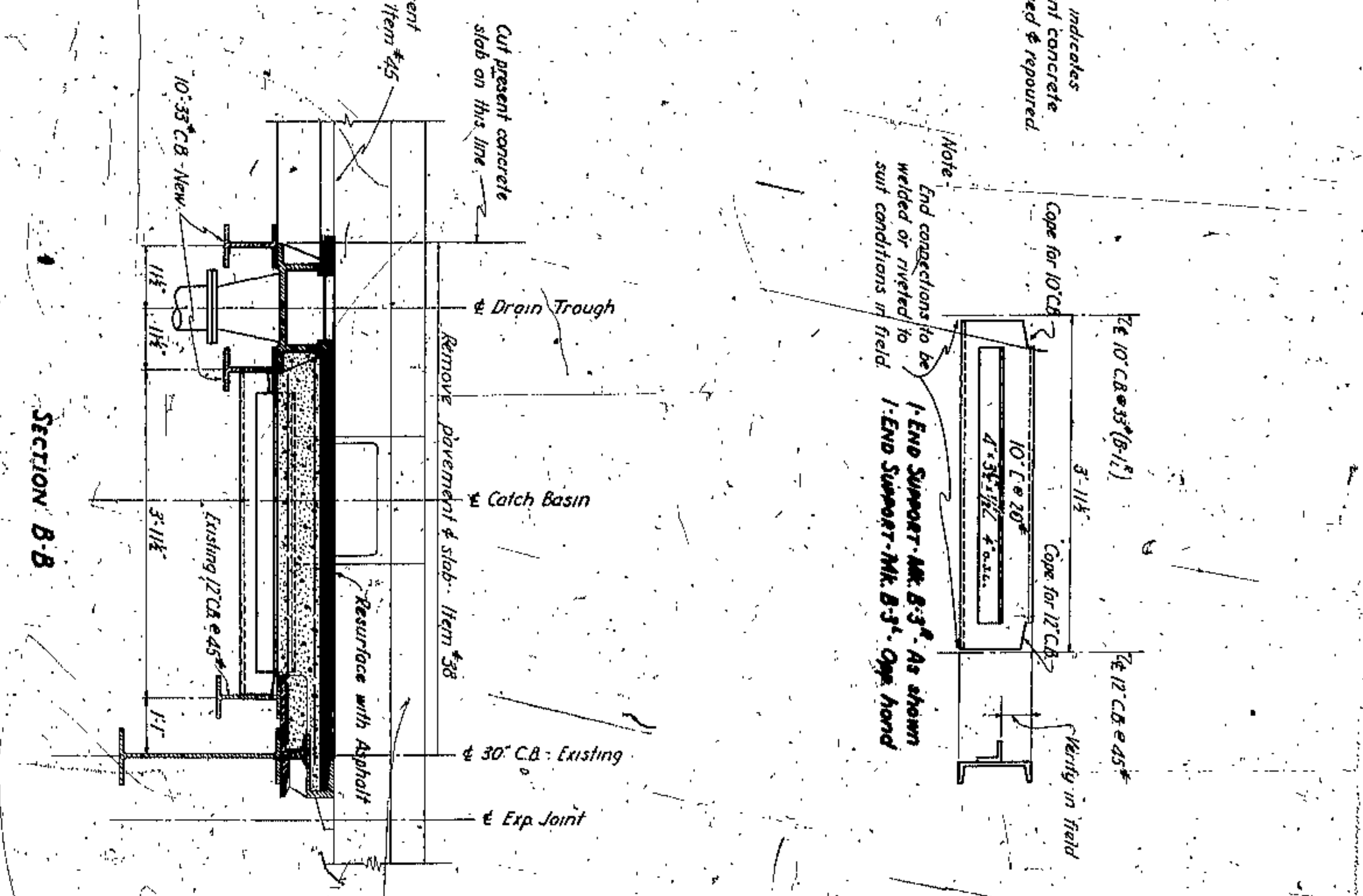
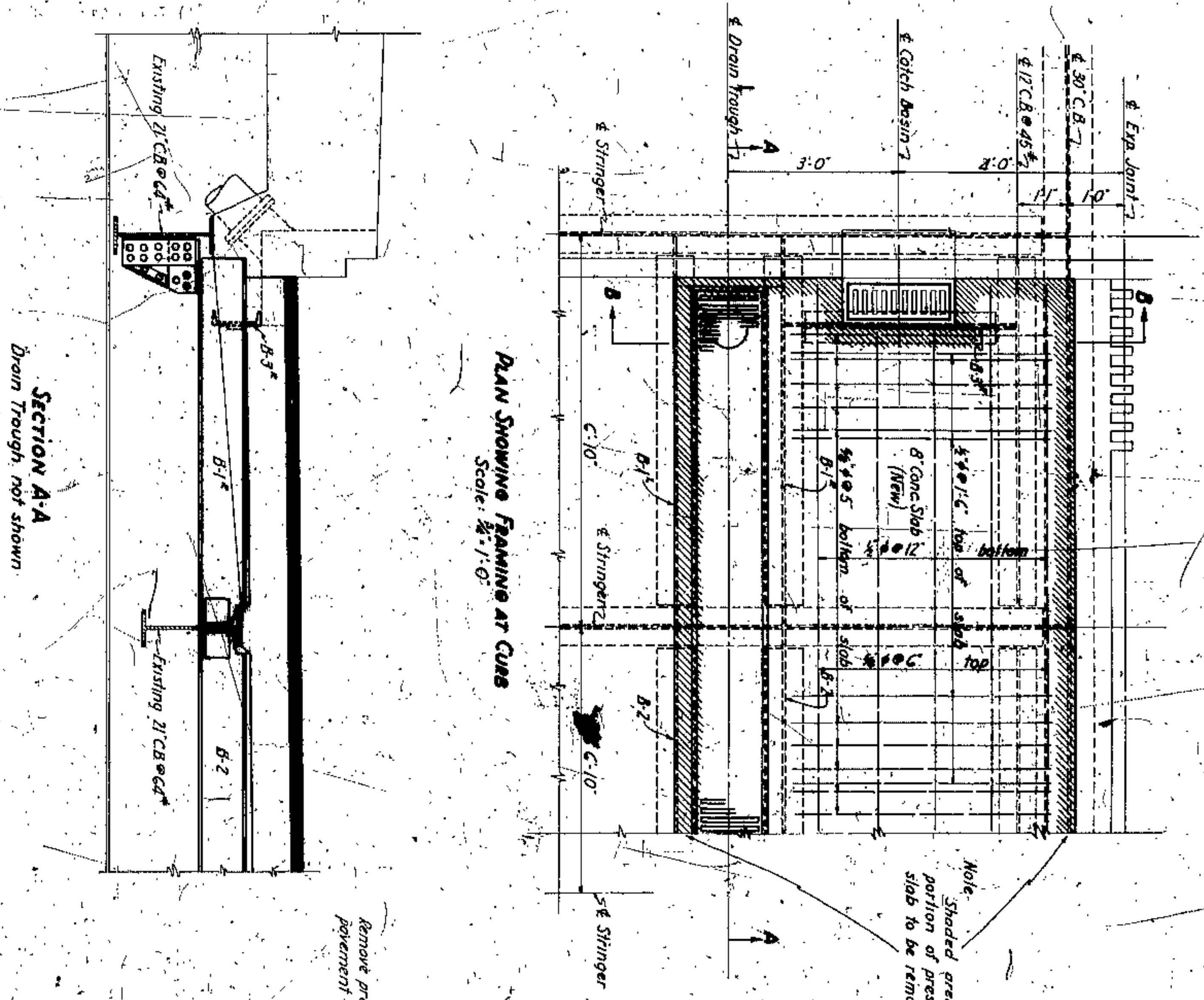






PLAN	DATE
NOTED	
BY	
CHECKED	
APPROVED	
BY	
DATE	

PROFILE	DATE
NOTED	
BY	
CHECKED	
APPROVED	
BY	
DATE	



**VOID**

Revised 11/6/26

**DRAIN TROUGH - LORAIN-CENTRAL BRIDGE - NO. B-23**





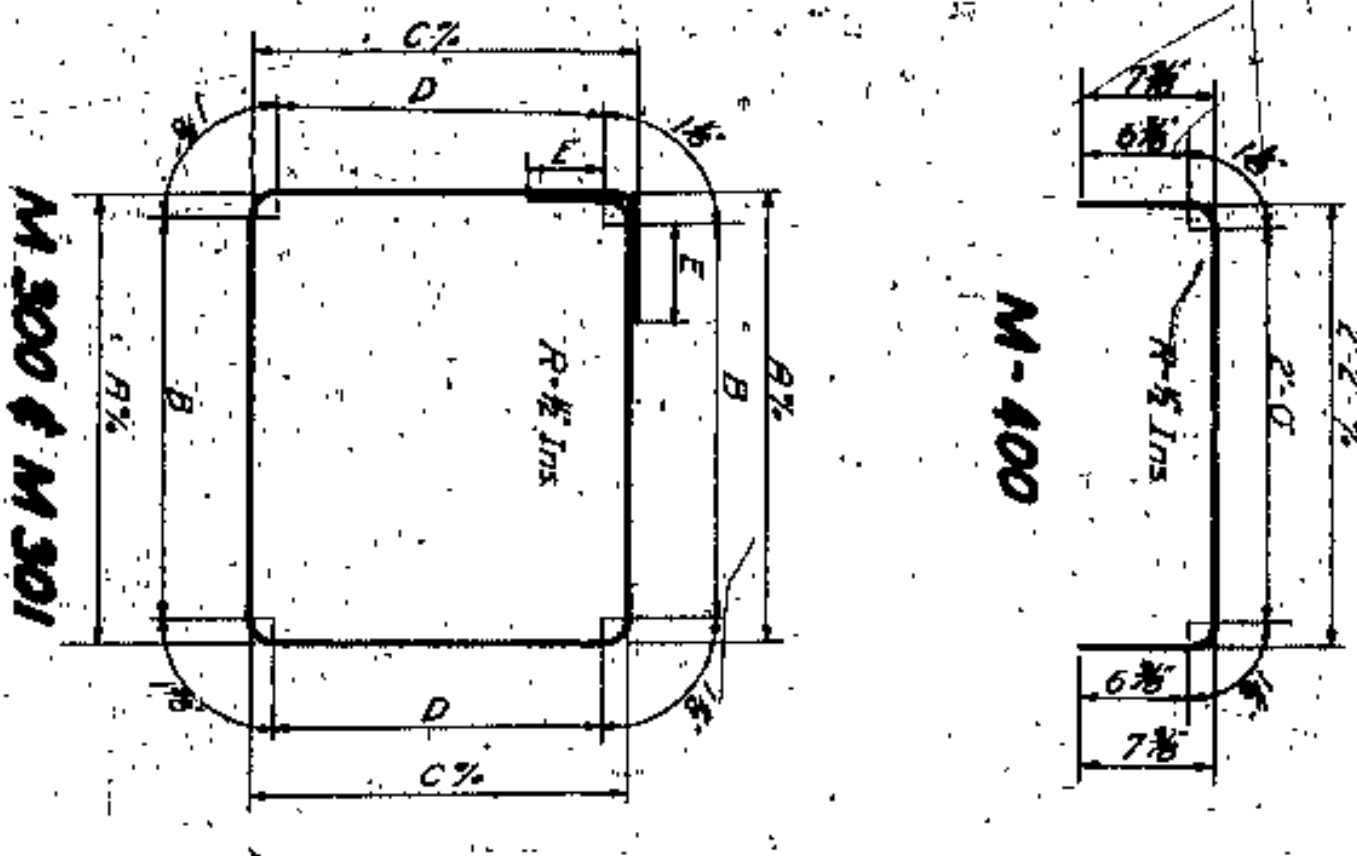
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLATTED		
No.	TEMPERATURE		
	WIND		
	RAIN		
	ANY OTHER CHECKS		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLATTED		
No.	TEMPERATURE		
	WIND		
	RAIN		
	ANY OTHER CHECKS		

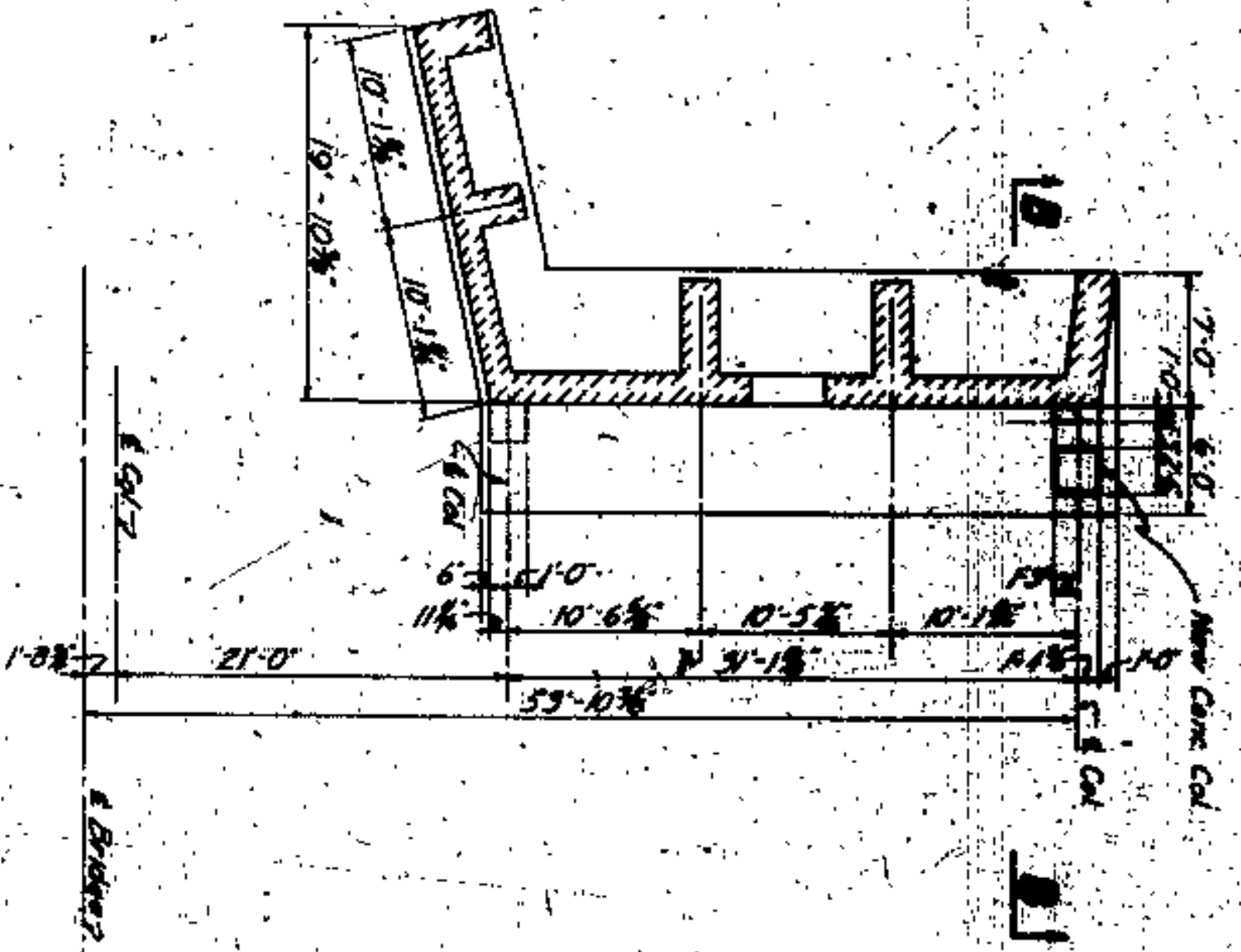
**ESTIMATED QUANTITIES**

Excavation 27 Cu Yds  
 Curbing Existing Footing 45 Cu Yds  
 Concrete 1-5% Mix 45 Cu Yds  
 Reinforcing Steel 405 Lbs.  
 3 Unit Cinch Anchors 4 Each  
 1 1/2" x 3/4" Dowel Nails 4 Each  
 Steel Plate welded in Place (8"x1'-0") 92 Lbs.  
 1 Steel Plate (Bed Pl.) (20"x1'-10") 114 Lbs.  
 1/2" x 2'-6" Bolts 4 Each

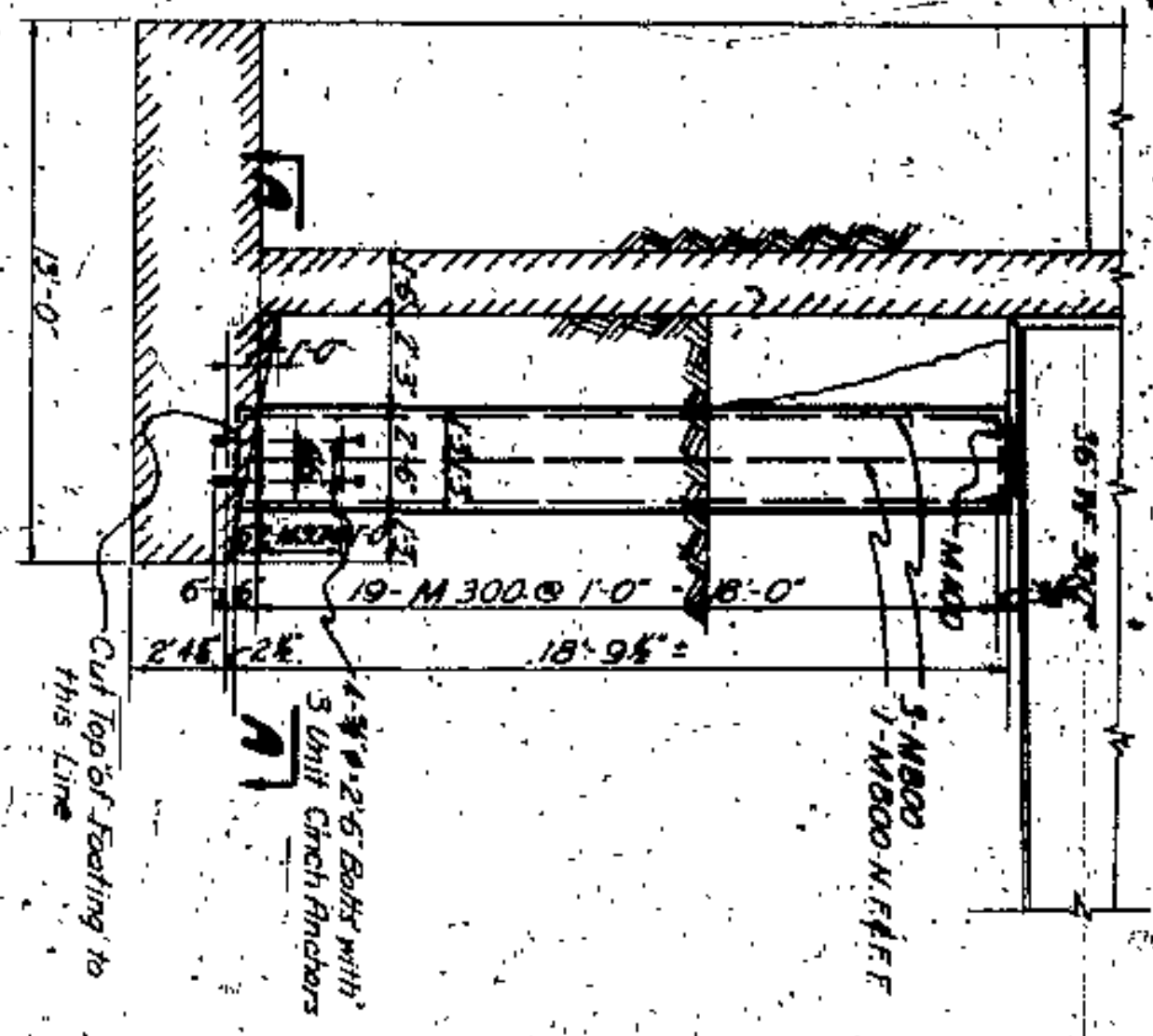
MARK	No.	SIZE	LENGTH	BEND	LOCATION
M300	2	1/2"	18'-6"	0	Vertical Bars
M300	7	3/4"	3'-3"	Shower	Top of Column
M300	19	3/4"	9'-3"	Shower	Top
M301	5	4'-0"			



BAR	A	B	C	D	E
M300	2-5'	2-7'	2'-4 1/2"	2'-2 1/2"	5/8"
M301	1'-1 1/2"	1'-1 1/2"	1'-1 1/2"	1'-1 1/2"	3/4"

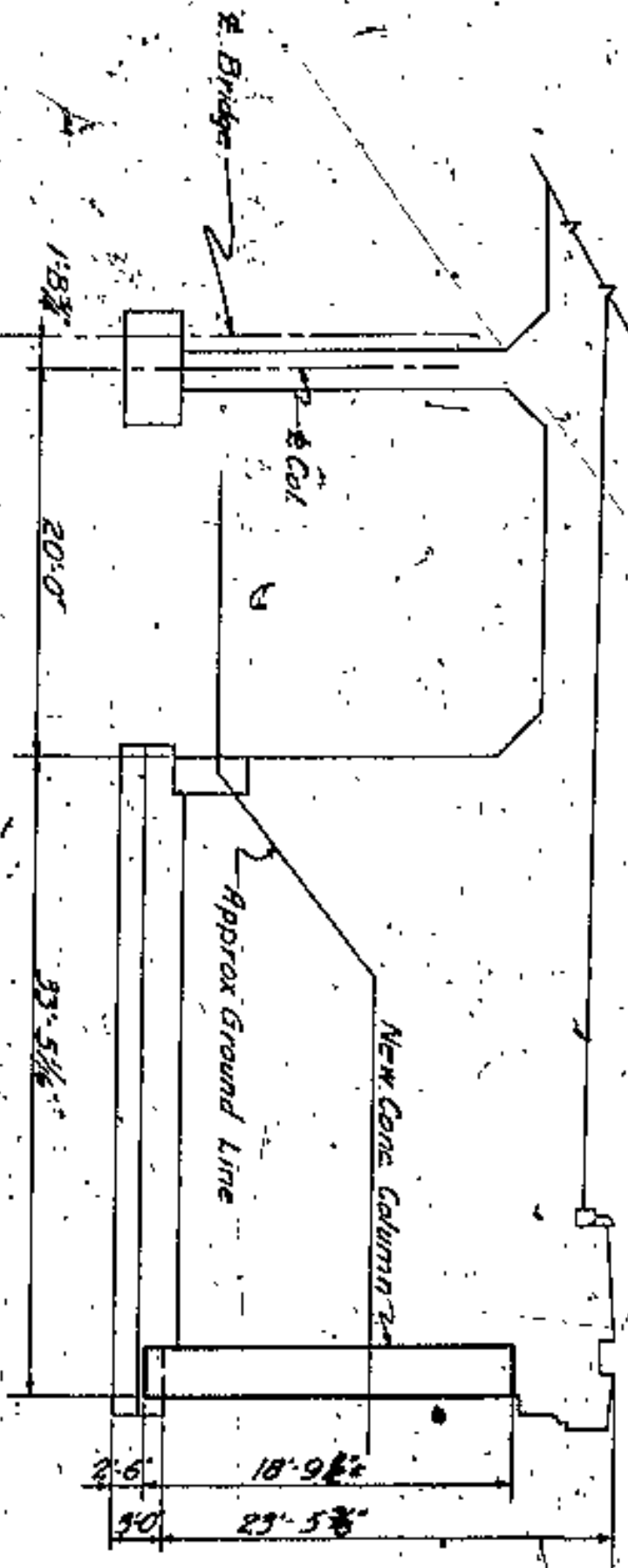


**FOUNDATION PLAN NORTH HALF WEST ABUTMENT**  
Scale: 1/8"=1'-0"

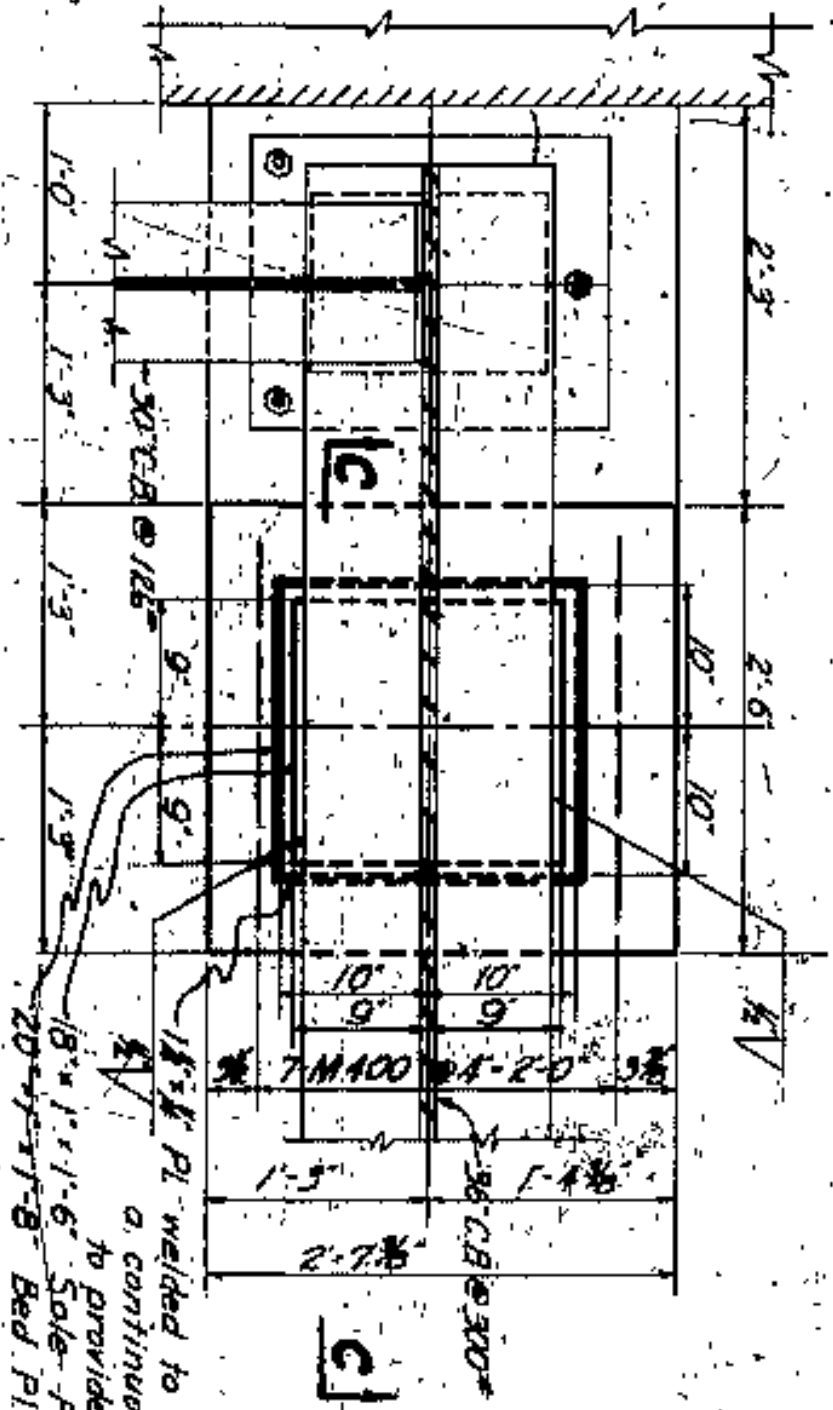


**SECTION B-B**  
Scale: 1/8"=1'-0"

**PARTIAL ELEVATION WEST ABUTMENT**  
Scale: 1/8"=1'-0"

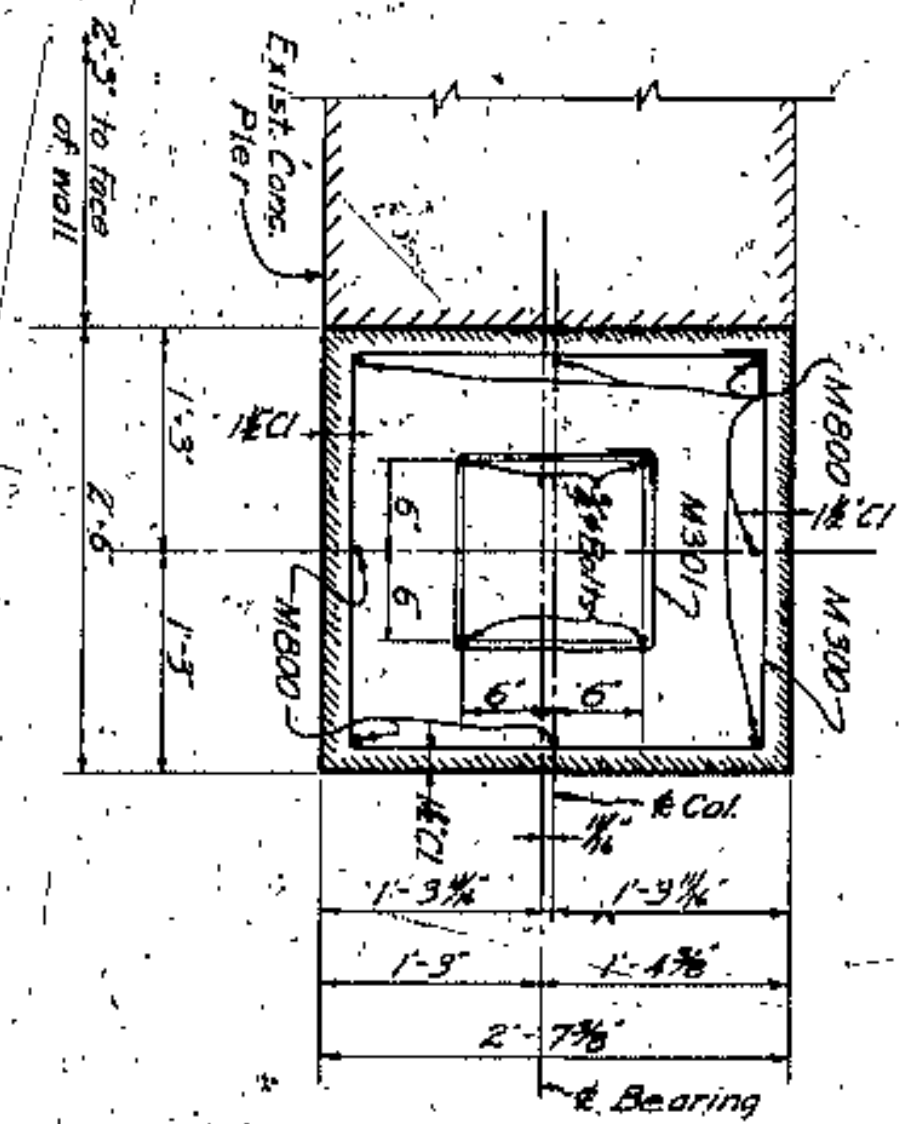


**SECTIONAL PLAN AT NEW COLUMN**  
Scale: 1/4"=1'-0"

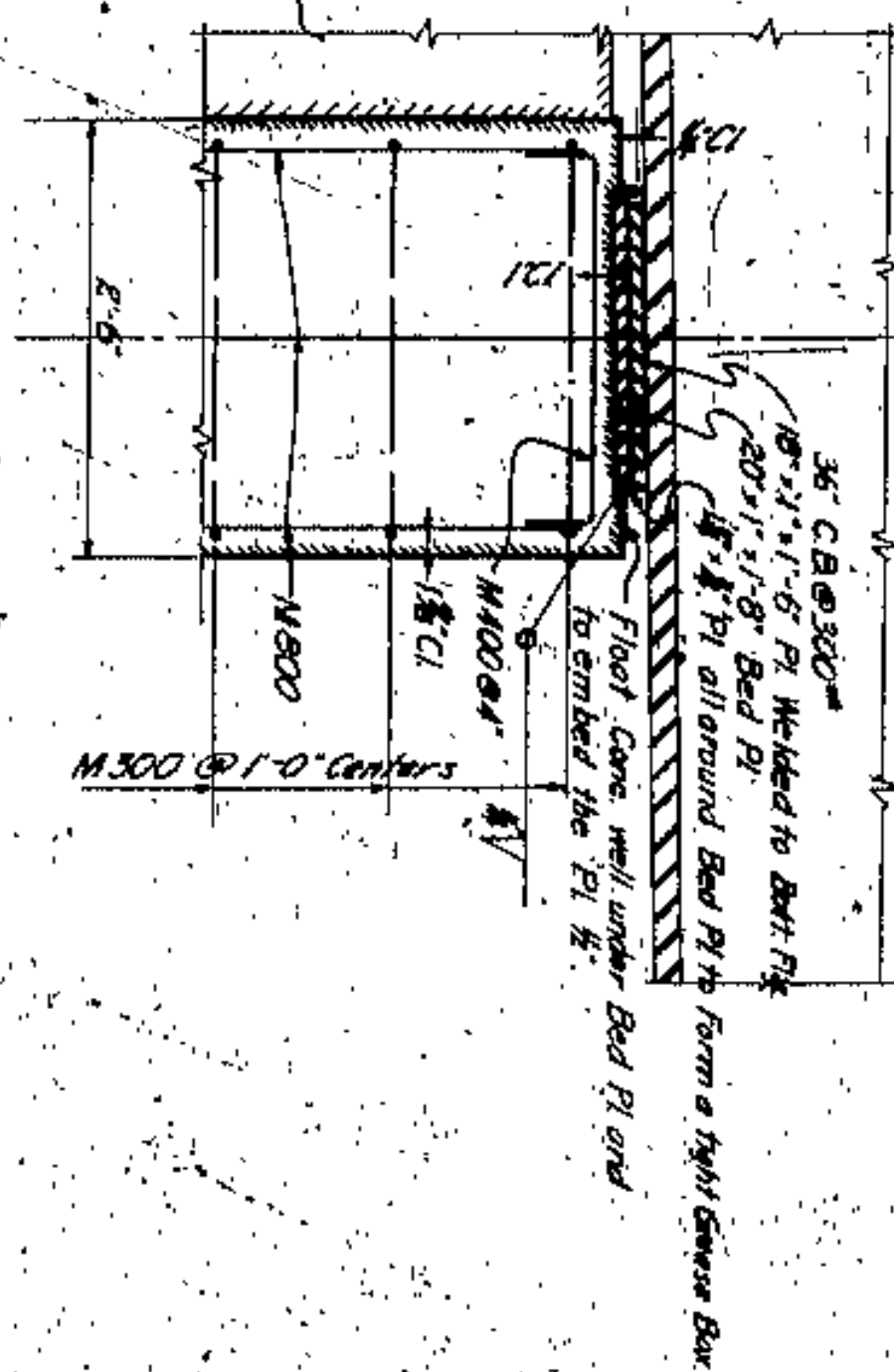


1/2" Pl. welded to edge of Bed Pl. with a continuous fillet weld. Weld corners to provide a leak proof groutage box. 18" x 1'-11"-6" Side Pl. Grind Contact 20" x 1'-7"-8" Bed Pl. Surfaces to a smooth level surface.

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



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



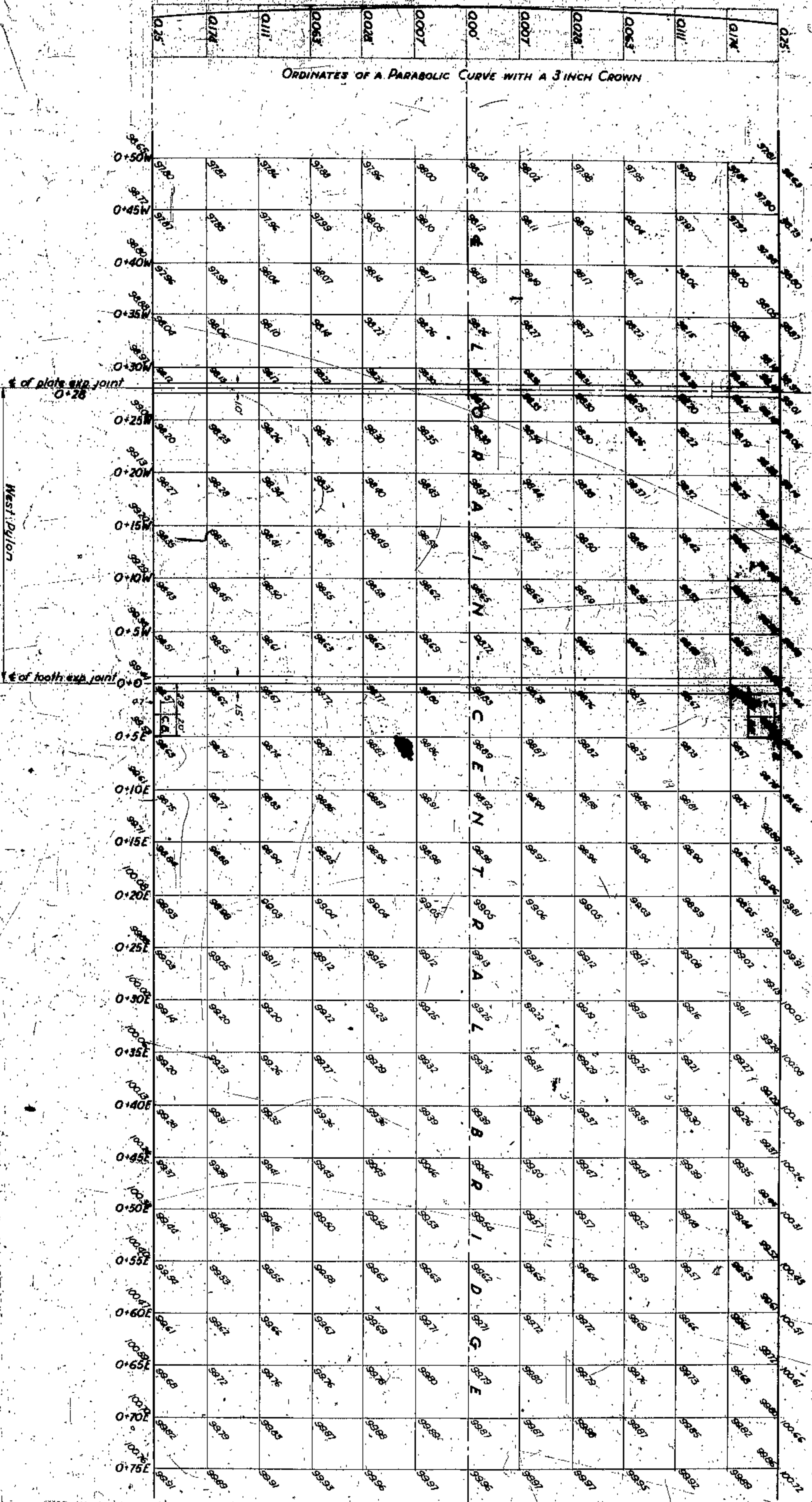
BUILT BY ROAD REPAIR 1944

**LORAIN-CARNEGIE BR.**  
CITY OF CLEVELAND  
WEST ABUTMENT REPAIRS  
BRIDGE NO. 88  
**NO. B-23**  
SCALE: Indicated  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
DATE: 5-3-44  
REVISED:



TABLE			
1			
2			
3			
4			


ORDINATES OF A PARABOLIC CURVE WITH A 3 INCH CROWN



LORAIN CENTRAL BRIDGE  
WEST PYLON-PAVEMENT ELEVATIONS

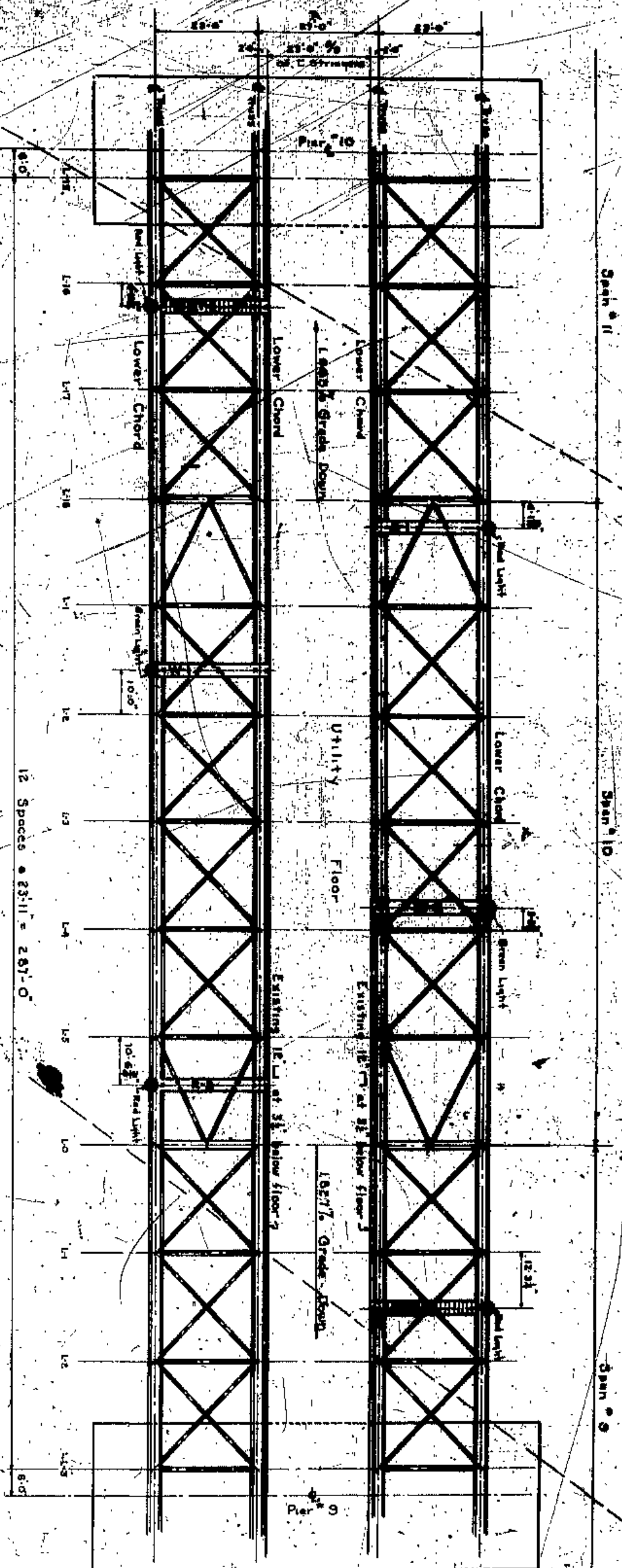
NO. B-23



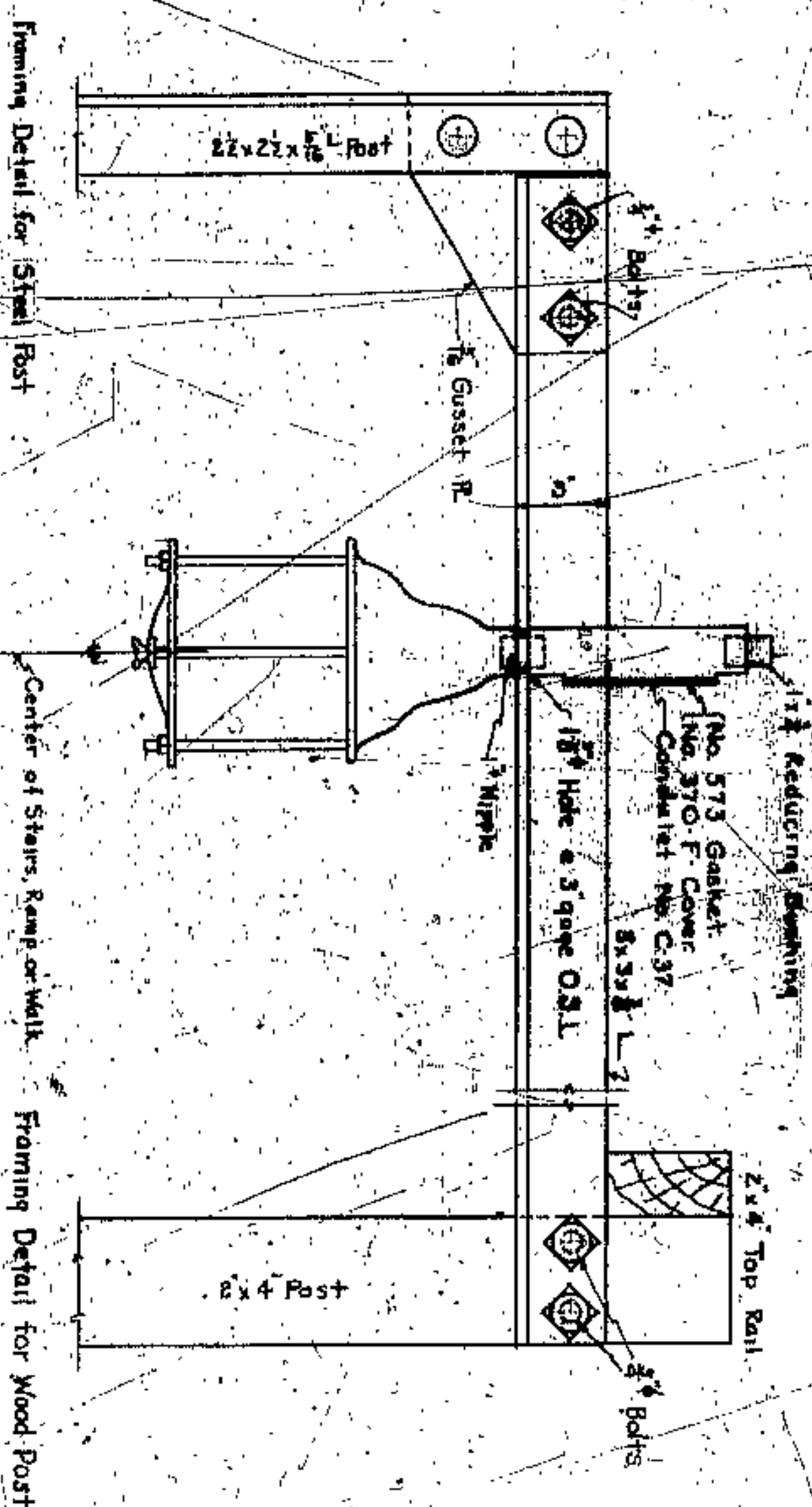
# STAIRS AND RAMPS FOR NAVIGATION LIGHTS

CUYAHOGA

RIVER



LOCATION PLAN  
SCALE 1/8"=1'-0"



NAVIGATION LIGHT DETAIL  
SCALE 3/16"=1'-0"

BUILT BY  
CONTRACT

COUNTY OF CUYAHOGA  
BRIDGE DEPARTMENT  
JOHN O. McWILLIAMS  
COUNTY SURVEYOR

Approved: *A.S. Paxon*  
Date: *5/21/14*  
Planning Department

Approved: *W. J. ...*  
Date: *5/21/14*  
Road Department

Approved: *W.C. ...*  
Date: *5/21/14*  
Bridge Department

Approved: *John O. McWilliams*  
Date: *5/21/14*  
County Surveyor

Approved: *...*  
Date: *...*  
County Commissioner

Approved: *...*  
Date: *...*  
County Commissioner

FOR AIN ZEAENE SIE BRIDGE  
WITH  
NAVIGATION LIGHTS  
STANDS AND RAMP  
REPORT NO. 6043  
NO. B-23







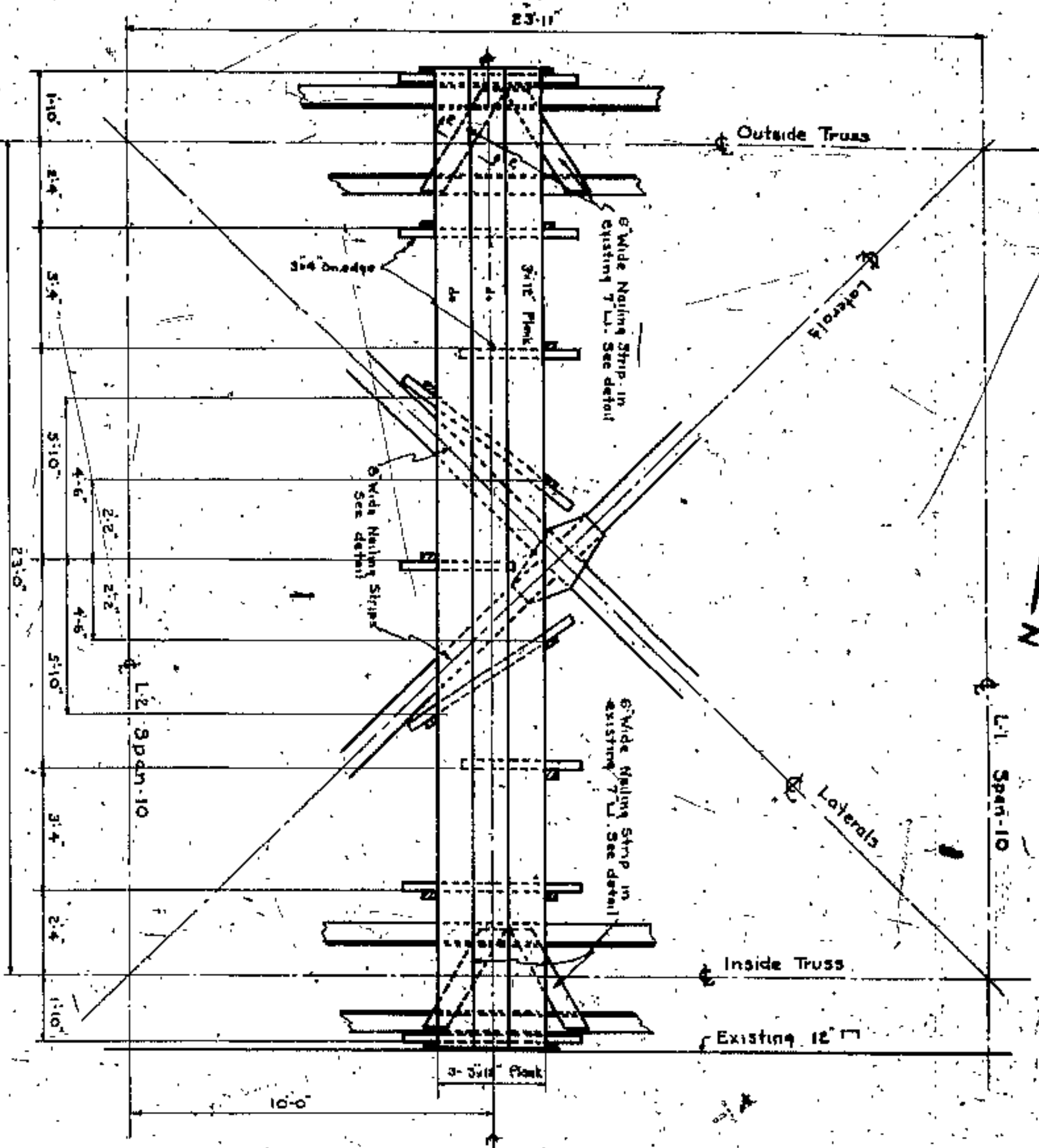




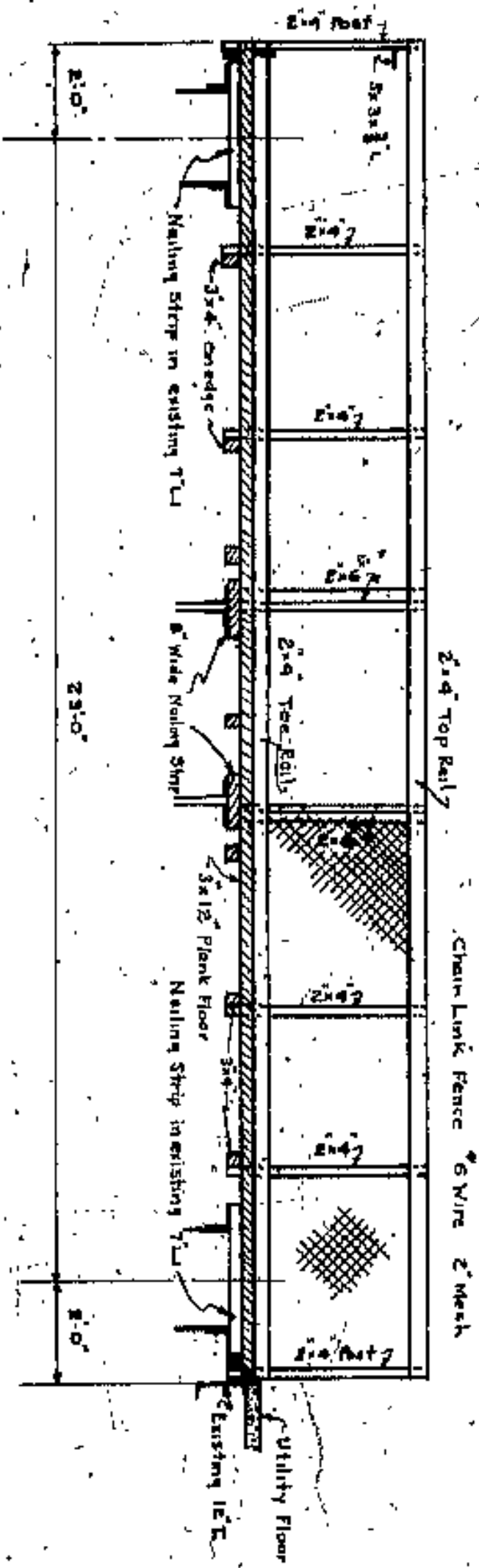




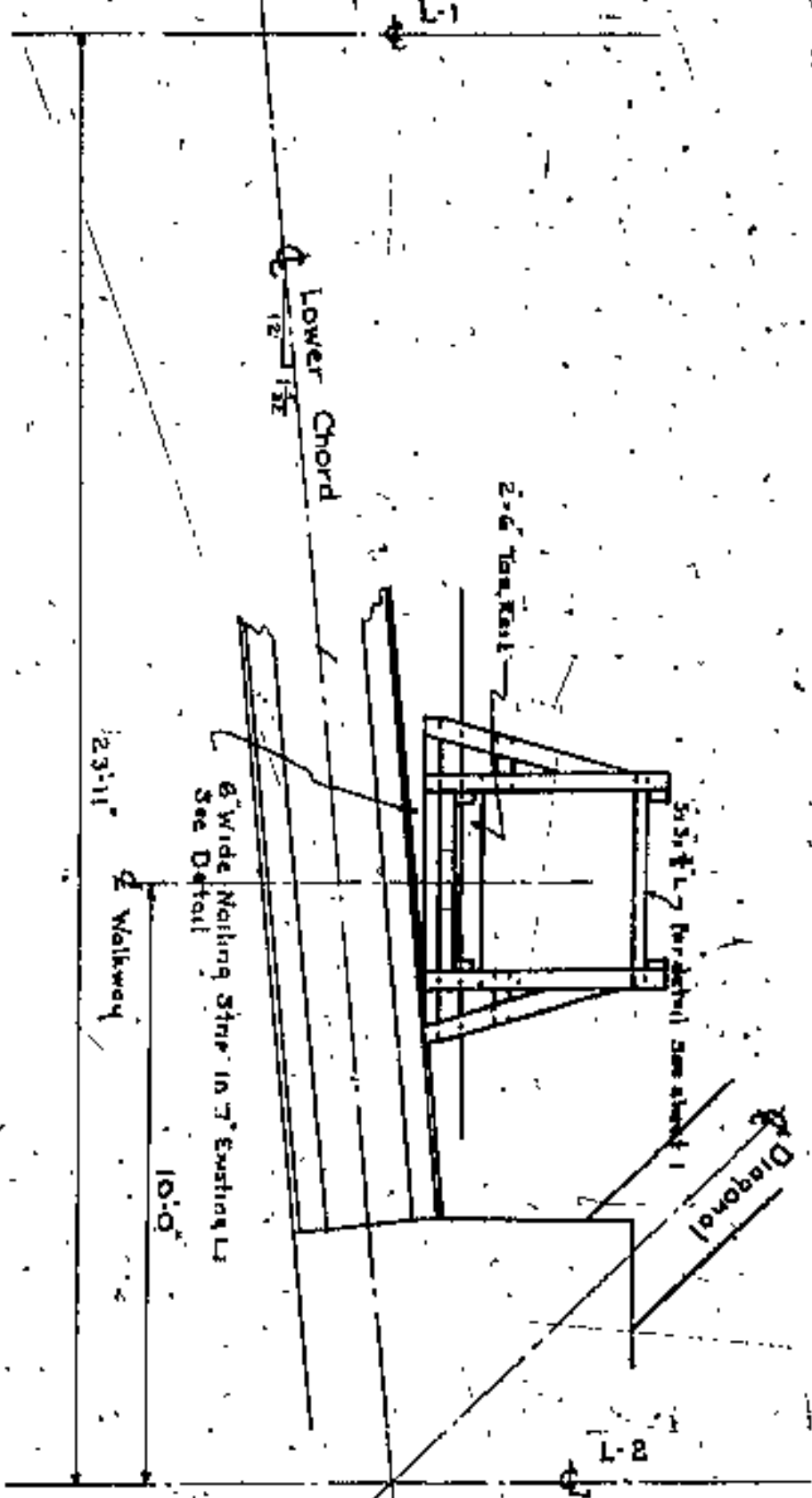
# WALK W-1



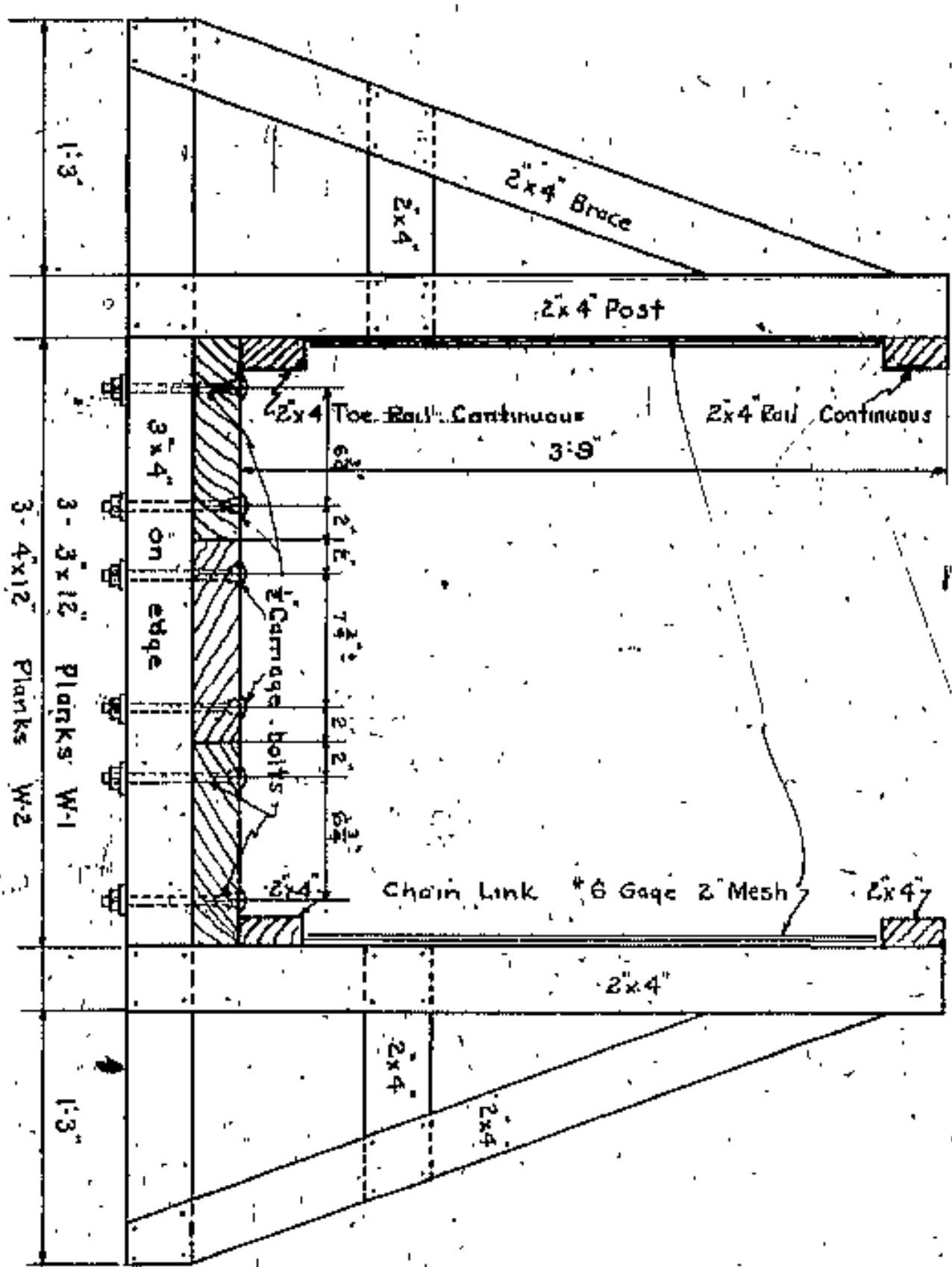
PLAN  
SCALE 3/16"



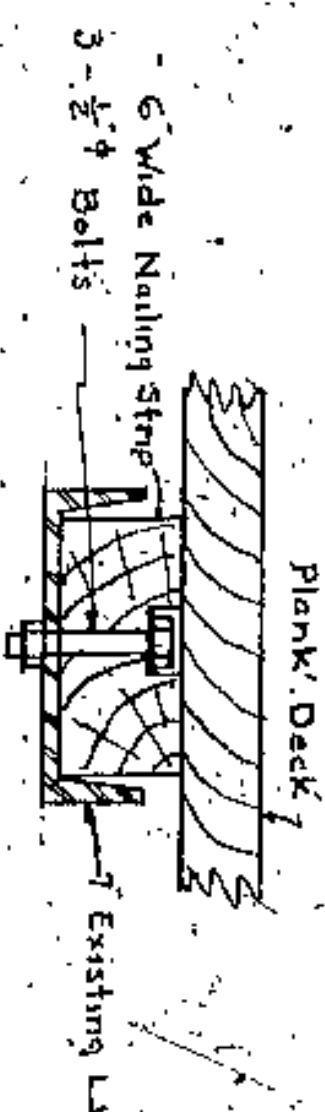
SECTION ON Q  
SCALE 3/16"



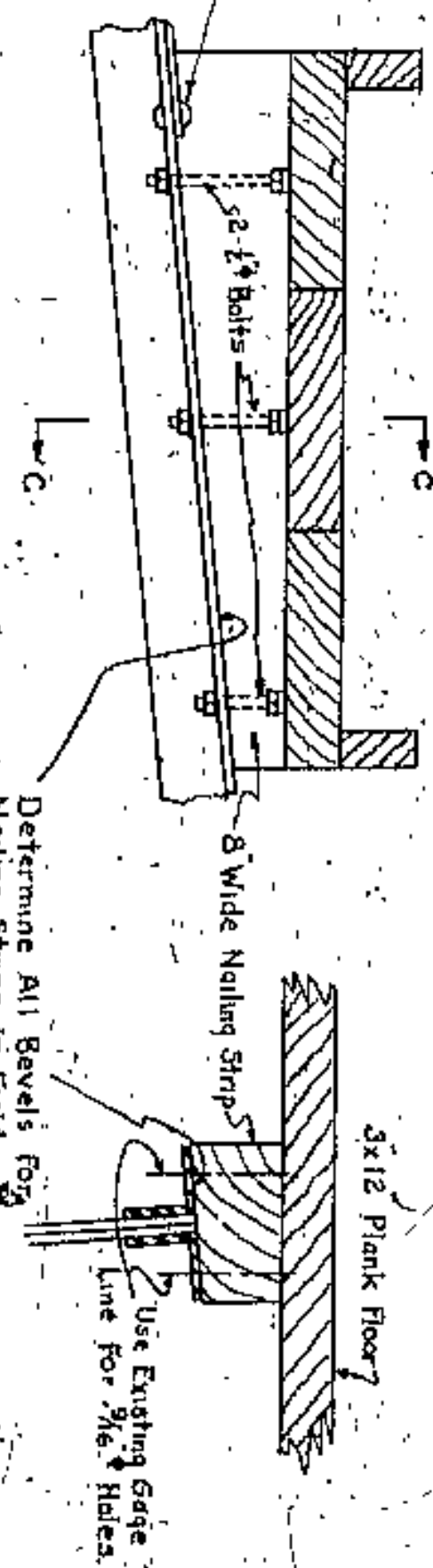
SOUTH ELEVATION  
SCALE 3/16"



TYPICAL SECTION  
SCALE 1 1/2" 1'-0"



SECTION E-E  
SCALE 1 1/2" 1'-0"



DETAIL OF SUPPORT OVER LATERAL BRACING  
SCALE 1 1/2" 1'-0"

COUNTY OF CUYAHOGA  
BRIDGE DEPARTMENT

LORAIN CARNEGIE BRIDGE  
NAVIGATION LIGHTS  
STAIRS AND RAWS  
REPORT NO. 4005

NO. B-23





THE  
COUNTY OF  
SHERBORN  
SHERBORN  
SHERBORN



THE  
COUNTY OF  
SHERBORN  
SHERBORN  
SHERBORN

JOHN OTTEN  
ENGINEER

BOARD OF COMMISSIONERS

MUNICIPALITIES

Assurance of Consent  
Date







**GENERAL PLAN**  
 SHOWING RELOCATED CURB, NEW SIDEWALK, RAILING & NEW RETAINING WALL  
 Scale 6"=10'

**ESTIMATED QUANTITIES**

ITEM NO.	ITEM	QUANTITY	UNIT
E-2	Excavation for Structures	1000	cu yds
S-22 & S-23	Removal of Existing Concrete	Lump Sum	
S-24	Stone Sidewalk Taken Up	2240	sq. ft.
S-25	Stone Curb Taken Up	378	lin. ft.
S-26	Railing Taken Up	363	lin. ft.
S-27	Keystone Reinforced	1	lin. ft.
S-28	1-9" Concrete for Structures	1408	cu yds
S-29	Reinforcing Steel in Place (M-2)	20000	lbs.
S-30	Waterproofing, Type "A" (R-5)	666	sq. yds.
S-31	Railing Reset	306	lin. ft.
S-32	New concrete Sidewalk	1632	sq. ft.
S-33	Keystone (R-2)	2	lin. ft.
S-34	1" Cast Iron Pipe Saver (M-52) (R-1)	2200	hours
S-35	Hours Skilled Labor	100	hours
S-36	Hourly Unskilled Labor	100	hours
S-37	Maintenance Lights, Signs and Barricades	Lump Sum	

Note: For section T-E see Sheet No. 6.  
 Note: For Manhole Details see Sheet No. 5.

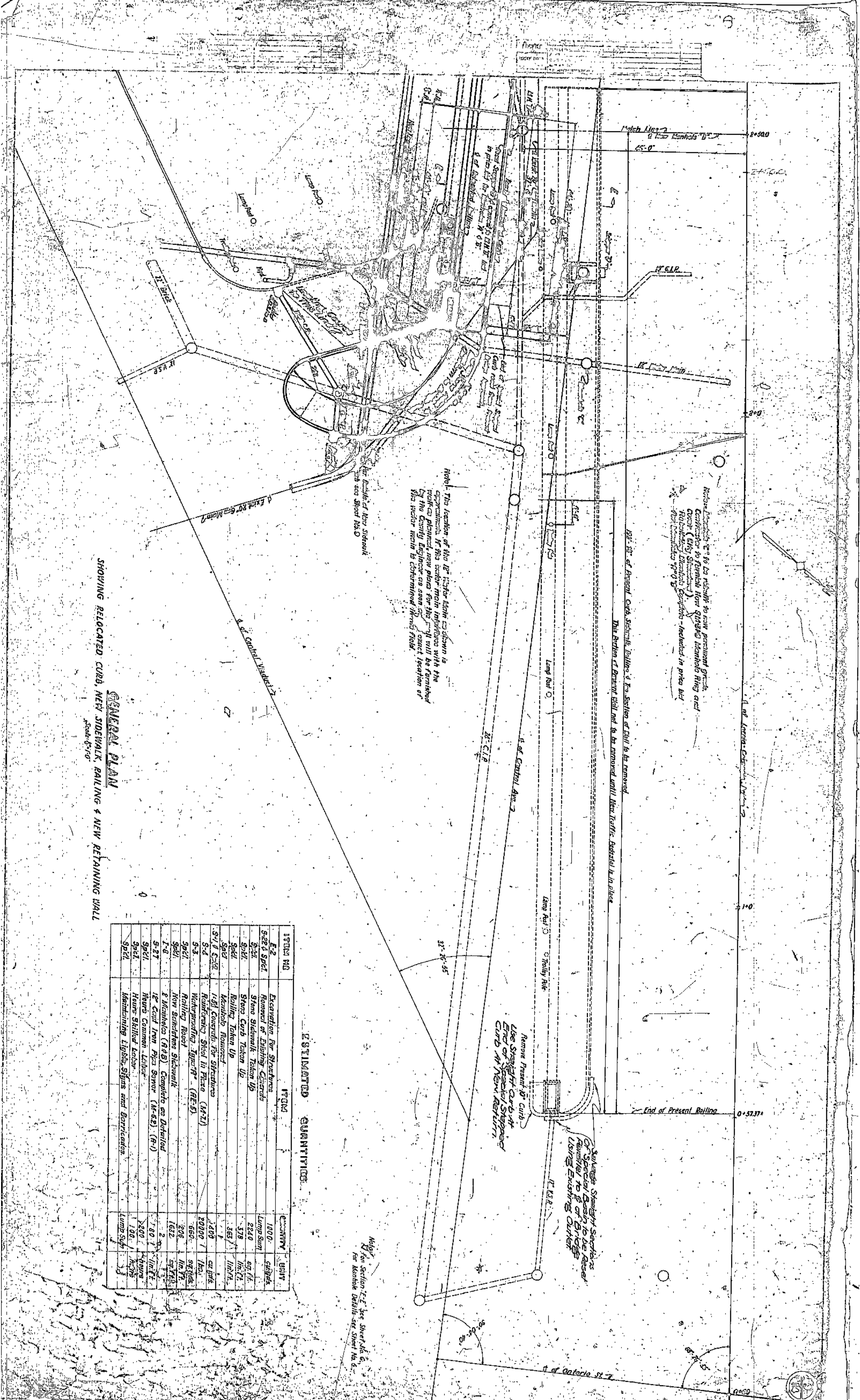
Note: The location of the 12" water main shown is approximate. If this water main interferes with the work planned, new plans for the water main will be furnished by the City Engineer as soon as the exact location of the water main is determined in the field.

Note: It is to be possible to have permanent grade contractor to furnish new 24" x 24" Manhole Ring and Cover (645 Standard).  
 Note: 24" x 24" Manhole Ring and Cover - included in price bid.  
 Note: 24" x 24" Manhole Ring and Cover - included in price bid.

Note: The portion of Present Curb, Sidewalk, Railing & Retaining Wall to be removed until New Traffic Pedestal is in place.

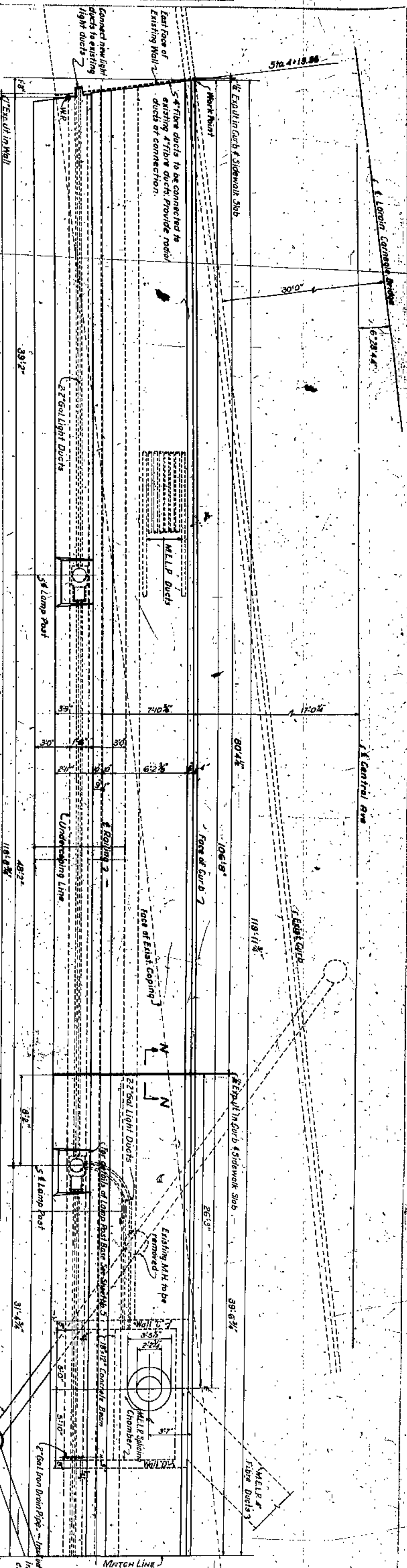
Note: Salvage Structural Sections of Special Basins to be Reused for other projects.

Note: Use Special Curb at End of Street to Support Curb at New Retaining Wall.





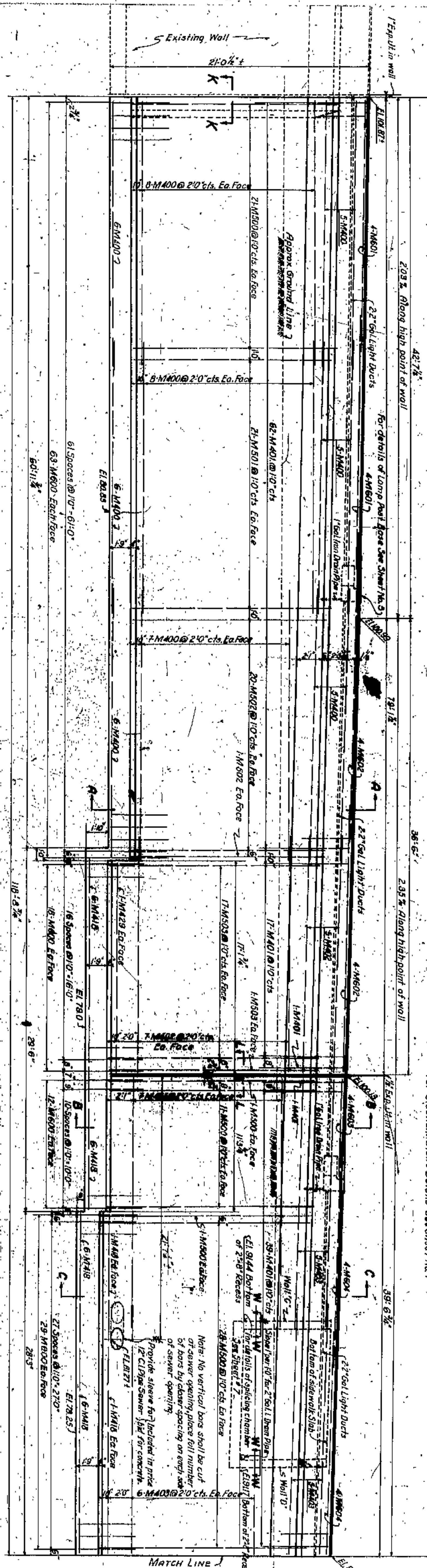
PROFILE	DATE	BY



**PLAN**  
Reinforcing Steel & Stone Sidewalk not shown  
Scale: 1/4" = 1'-0"

Note:  
For Section N-N See Sheet No. 7  
For Sections A-A, B-B, C-C, D-D, E-E, F-F, G-G, H-H, I-I, J-J, K-K, L-L, M-M, N-N, O-O, P-P, Q-Q, R-R, S-S, T-T, U-U, V-V, W-W, X-X, Y-Y, Z-Z See Sheet No. 6  
For Profile of Street Curbs See Sheet No. 8  
For Sidewalk Stone Details See Sheet No. 7

Note:  
For location of new sewer M.H. see sheet #2  
For details of M.H. see sheet #6



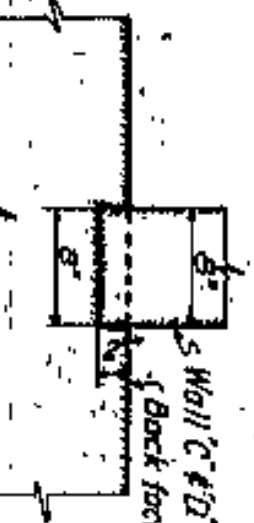
**ELEVATION-LOOKING NORTH**  
Scale: 1/4" = 1'-0"

**DETAIL OF SOUTH WALL AND SIDEWALK**

Note:  
Rolling not shown, for details of rolling see sheet No. 8  
Dimension shown in Elevation are given along Undercoping Line

Note:  
No vertical bars shall be cut or corner opening, place full number of bars by closer spacing on each side of sewer opening.  
Provide sleeve for included in price of 2" Cl Pipe sewer 1/2" for concrete

**SECTION-W-W**  
Scale: 1/4" = 1'-0"







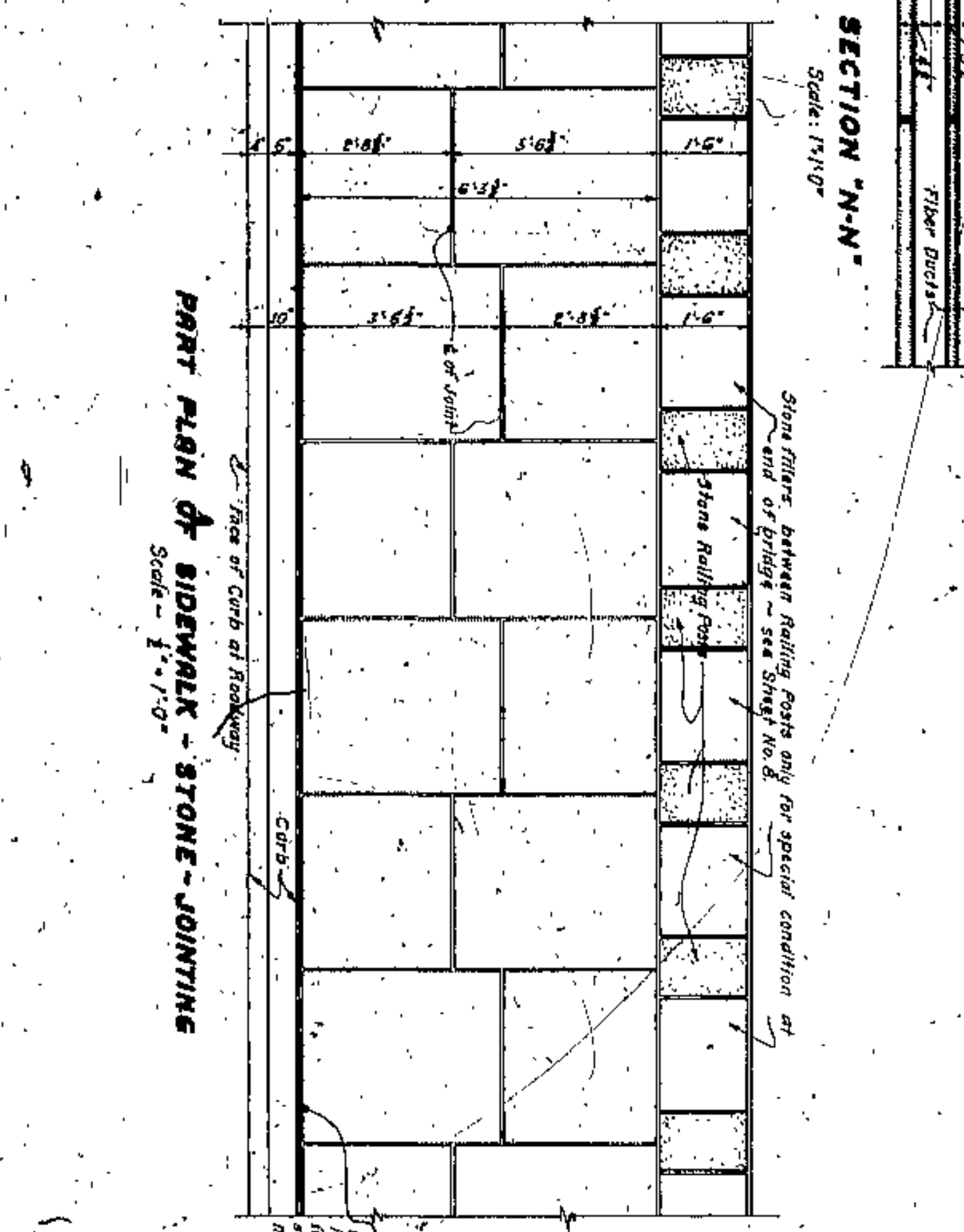
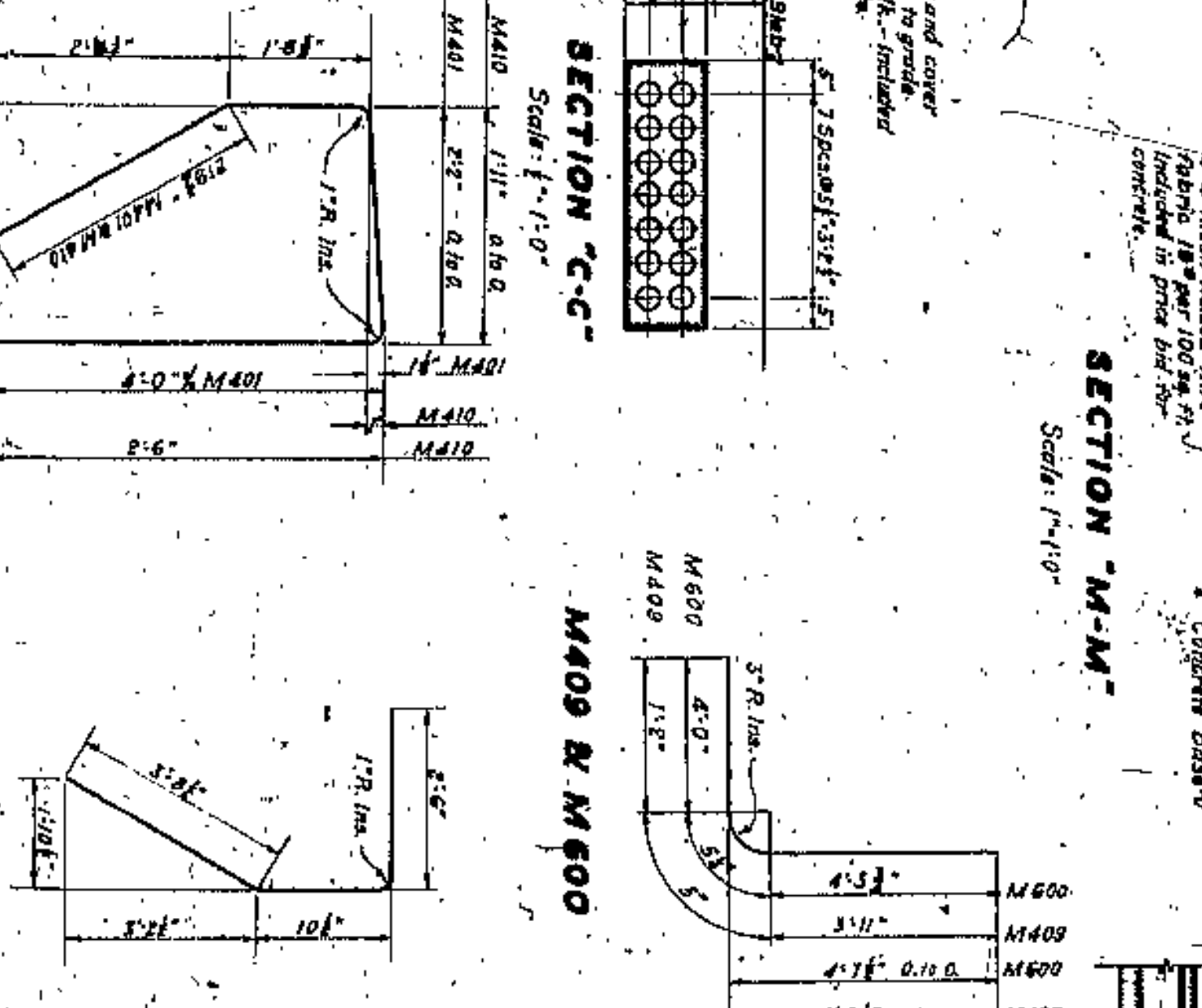
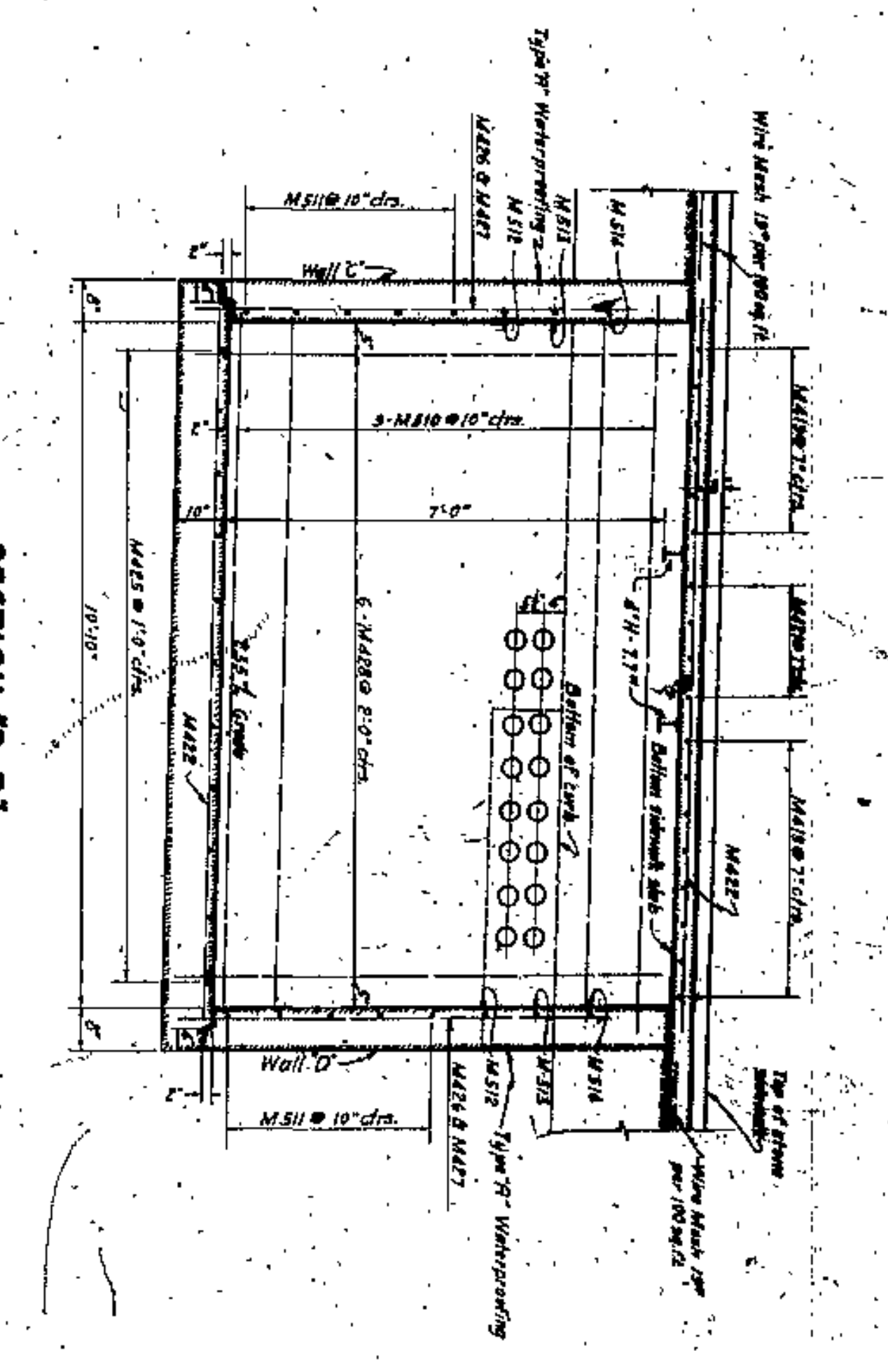
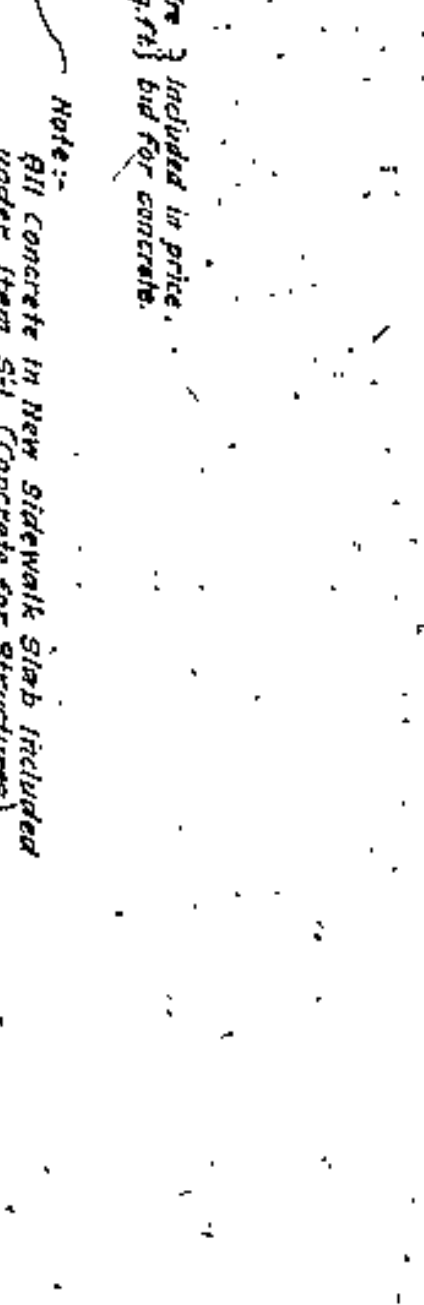
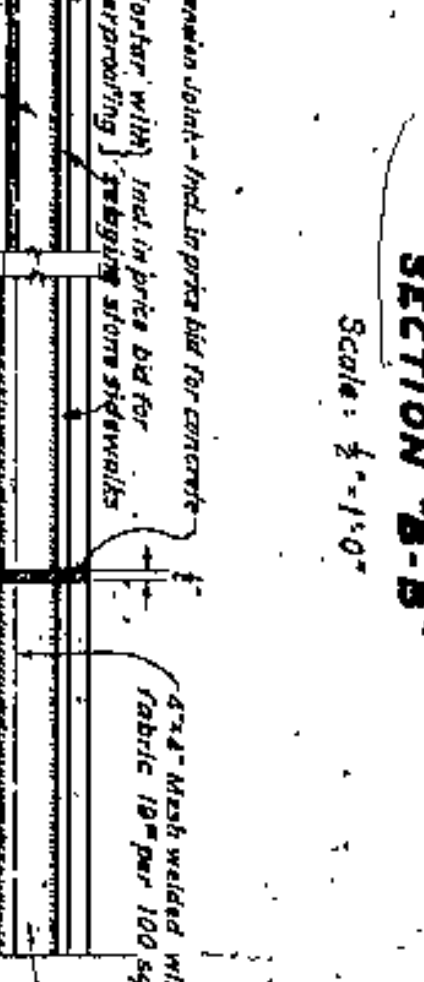
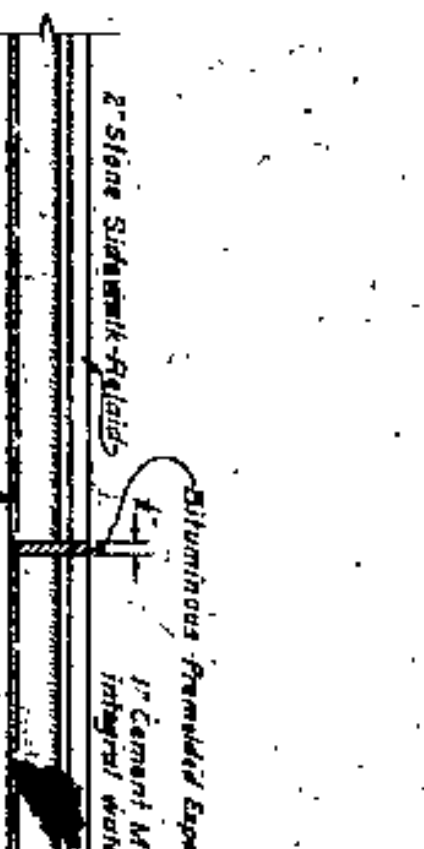
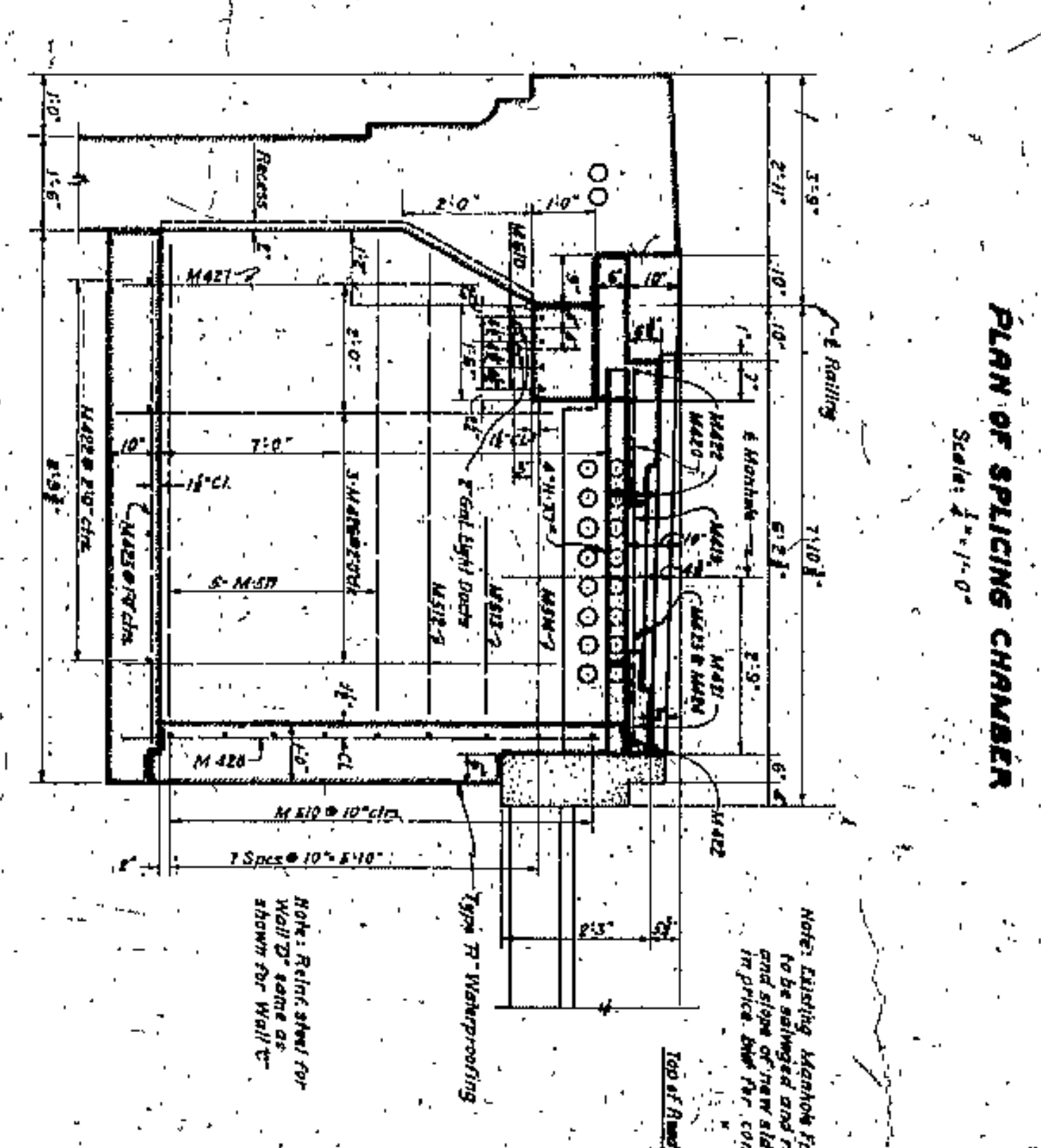
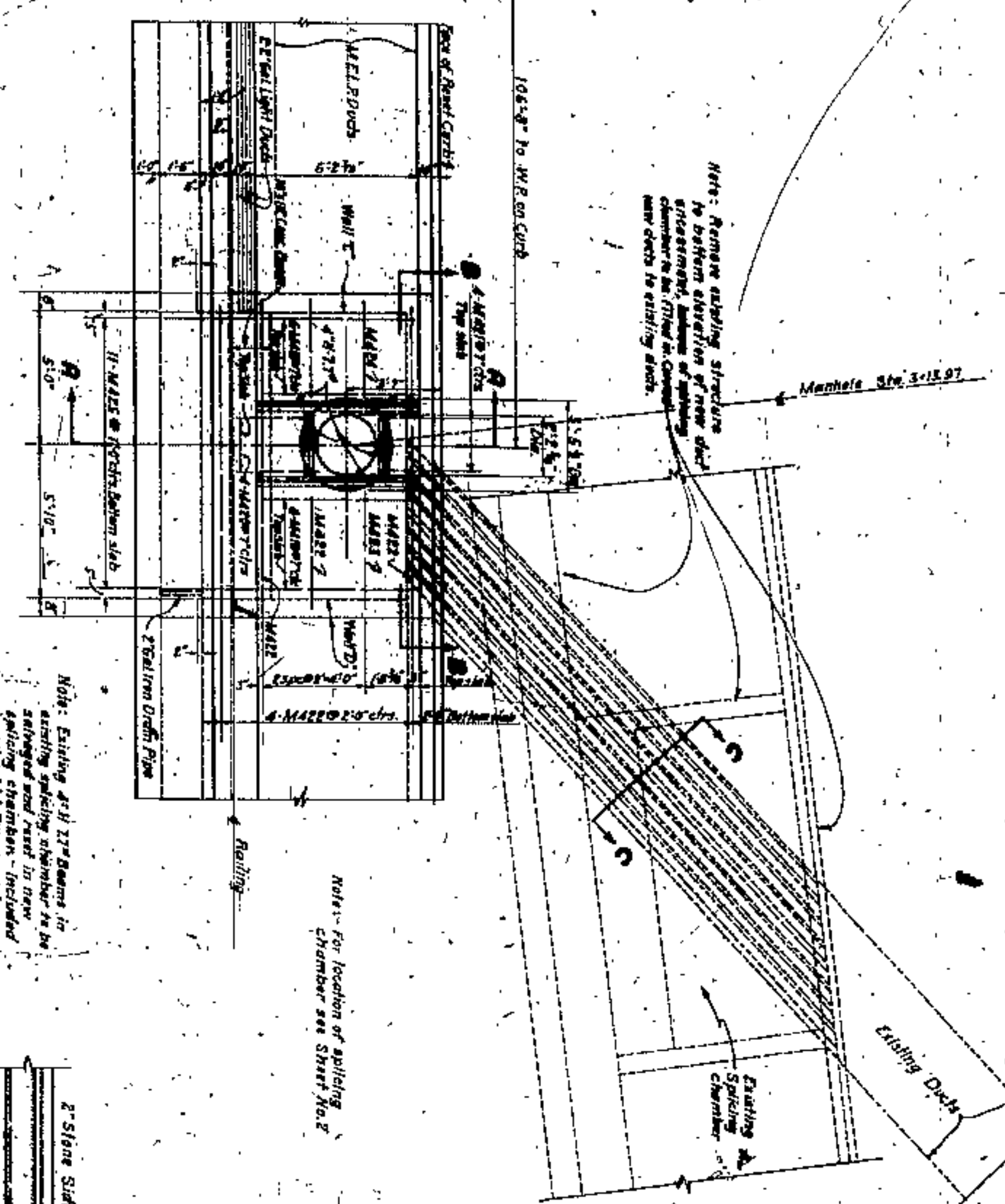






**BILL OF REINFORCING STEEL**  
 Notes: All Reinforcing Steel to conform to Sec. M-71

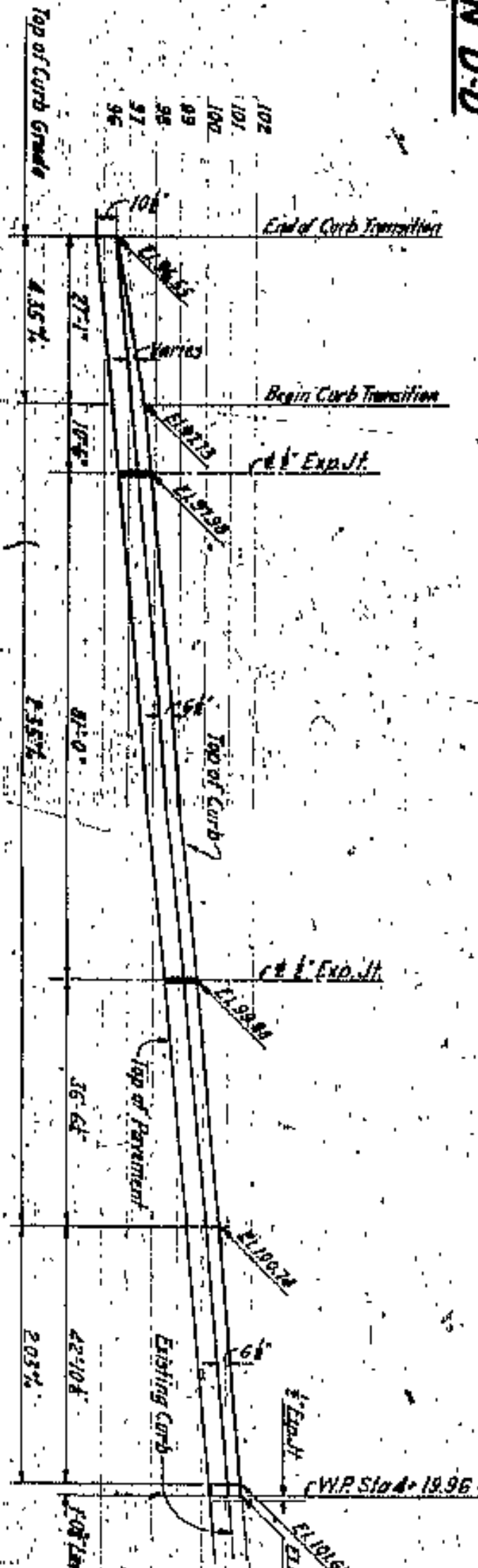
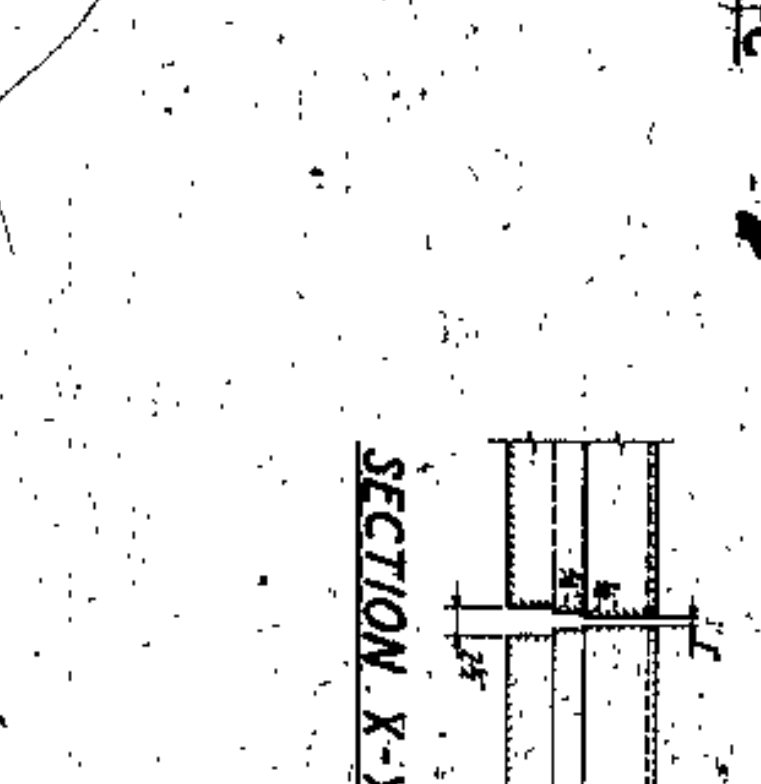
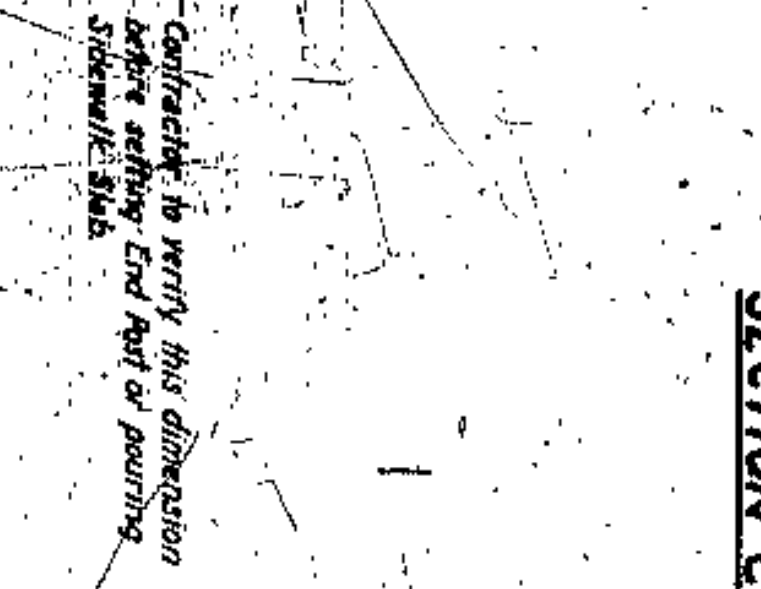
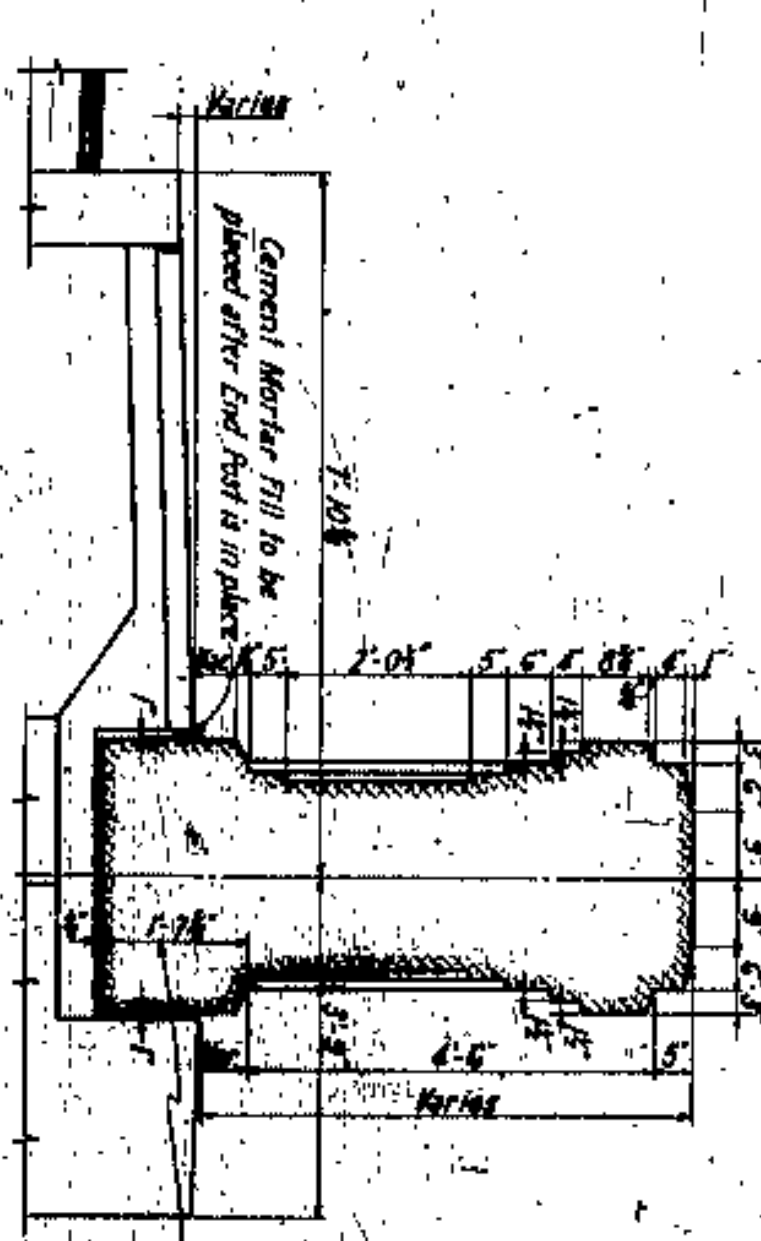
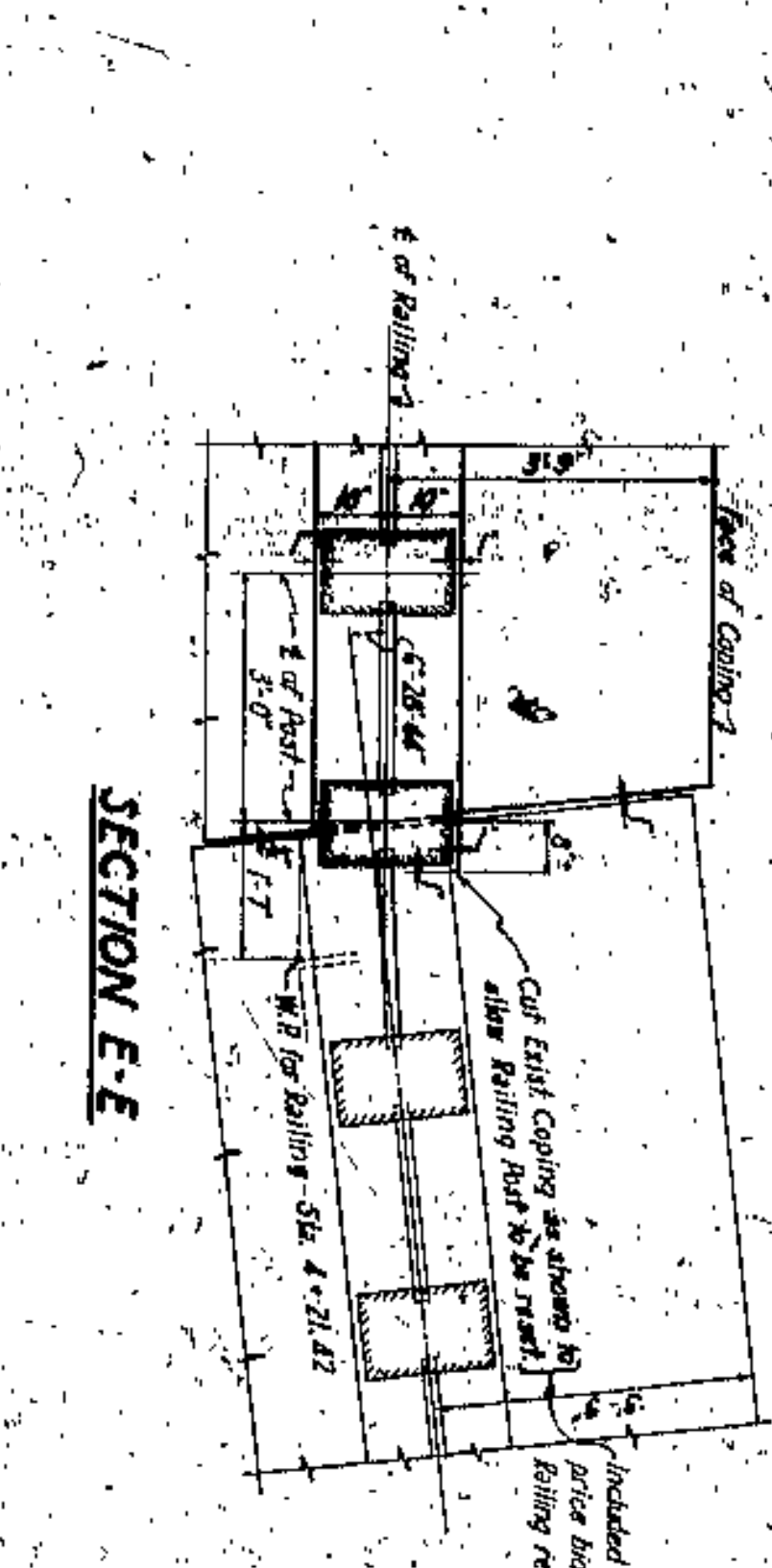
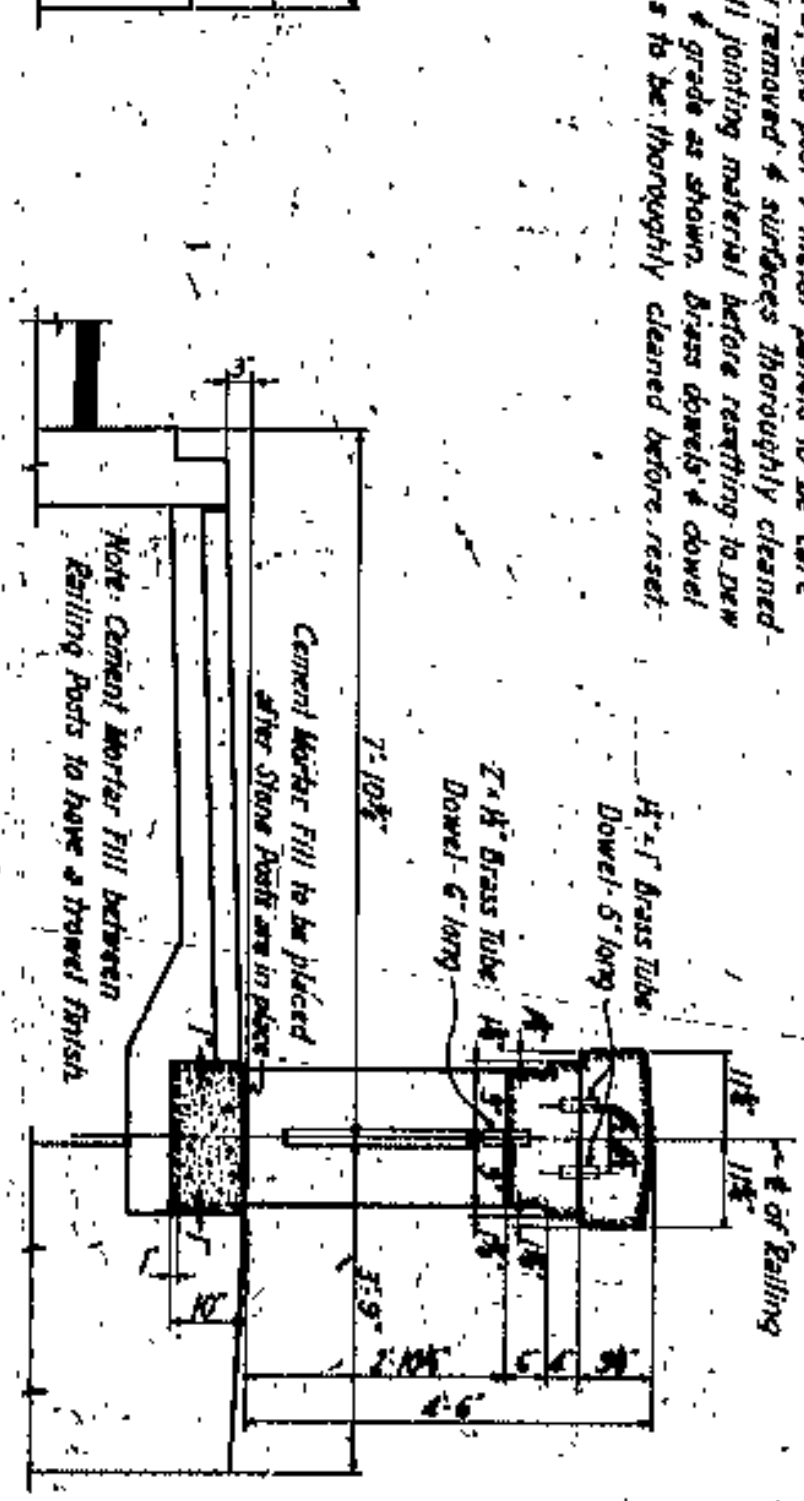
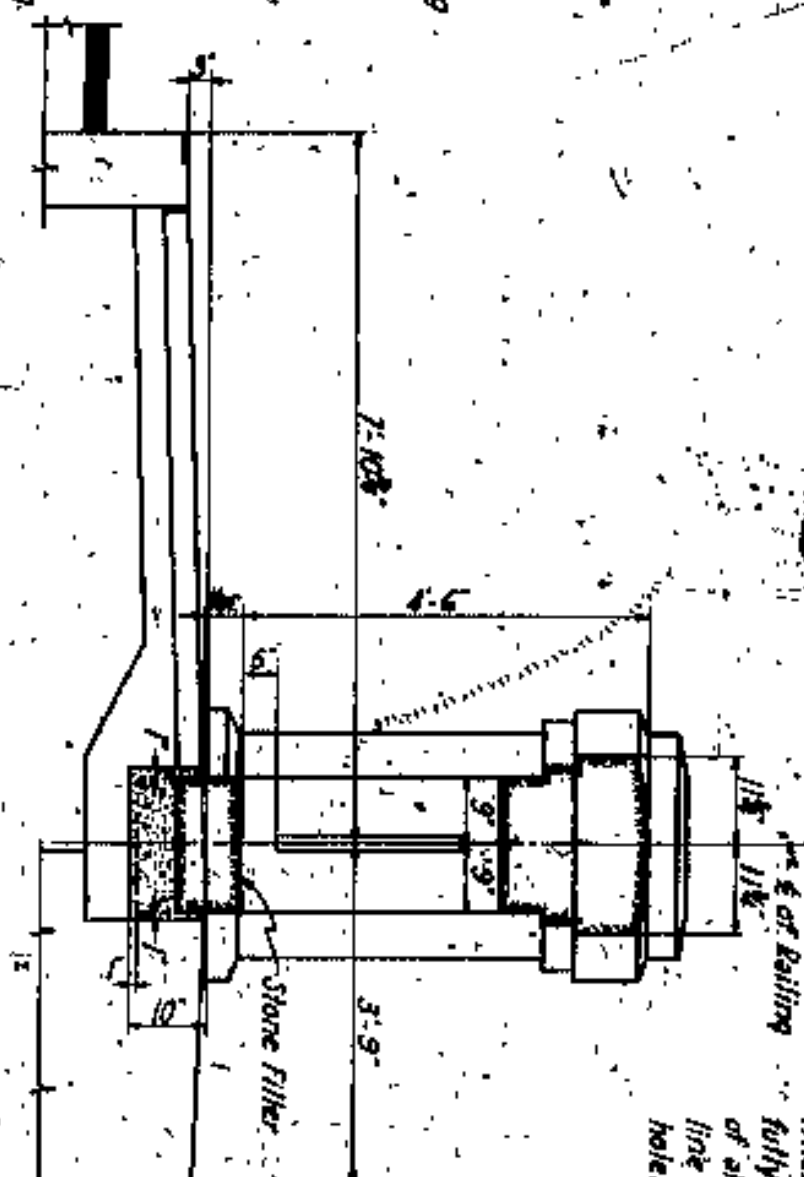
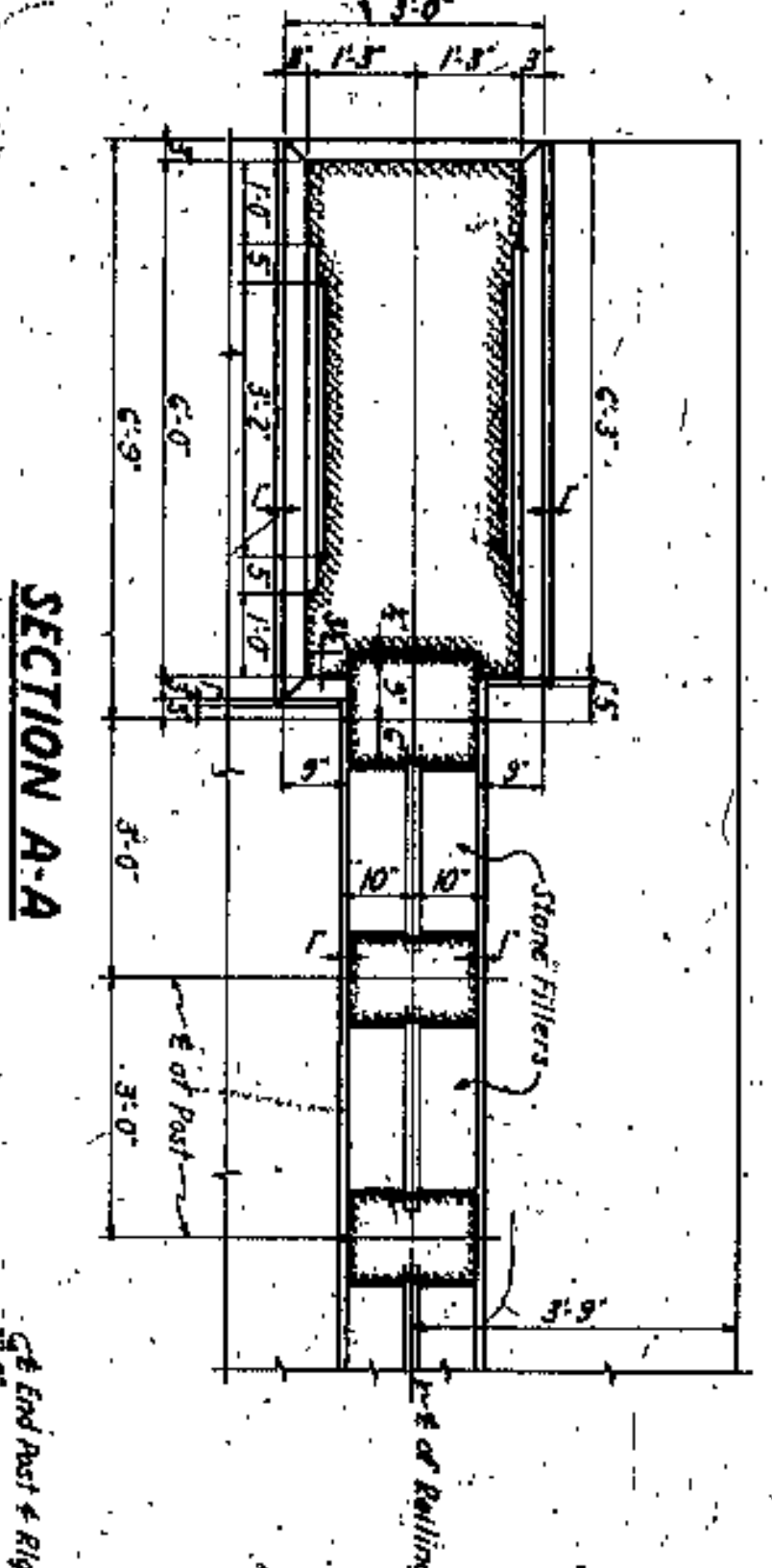
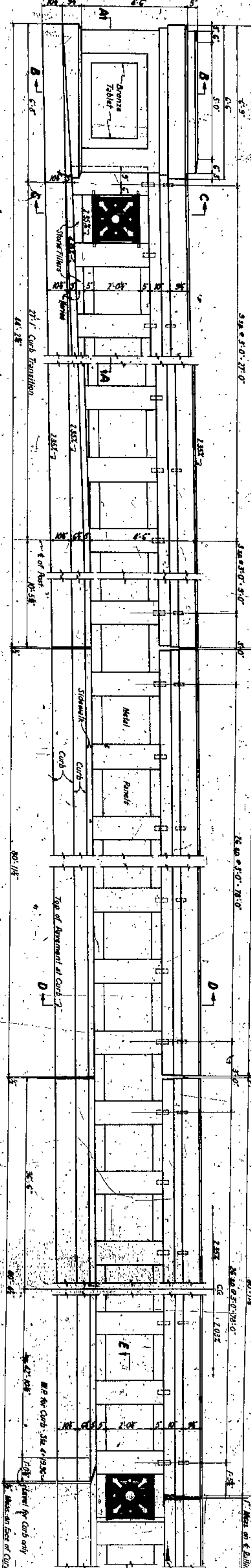
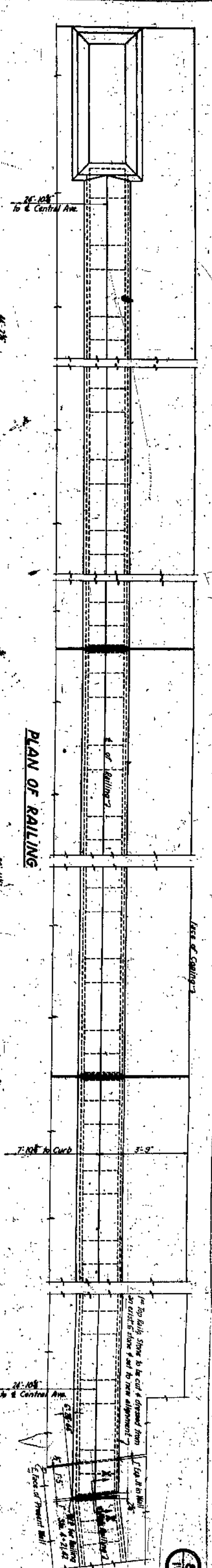
MARK	NO.	SIZE	LGTH.	BEND.	LOCATION
M400	418	3/4"	75'-0"	0	Well
M401	8	3/4"	25'-0"	0	Footing
M402	8	3/4"	25'-0"	0	Footing
M403	4	3/4"	25'-0"	0	Footing
M404	4	3/4"	25'-0"	0	Footing
M405	4	3/4"	25'-0"	0	Footing
M406	4	3/4"	25'-0"	0	Footing
M407	2	3/4"	25'-0"	0	Footing
M408	2	3/4"	25'-0"	0	Footing
M409	2	3/4"	25'-0"	0	Footing
M410	2	3/4"	25'-0"	0	Footing
M411	2	3/4"	25'-0"	0	Footing
M412	2	3/4"	25'-0"	0	Footing
M413	2	3/4"	25'-0"	0	Footing
M414	2	3/4"	25'-0"	0	Footing
M415	2	3/4"	25'-0"	0	Footing
M416	2	3/4"	25'-0"	0	Footing
M417	2	3/4"	25'-0"	0	Footing
M418	2	3/4"	25'-0"	0	Footing
M419	2	3/4"	25'-0"	0	Footing
M420	2	3/4"	25'-0"	0	Footing
M421	2	3/4"	25'-0"	0	Footing
M422	2	3/4"	25'-0"	0	Footing
M423	2	3/4"	25'-0"	0	Footing
M424	2	3/4"	25'-0"	0	Footing
M425	2	3/4"	25'-0"	0	Footing
M426	2	3/4"	25'-0"	0	Footing
M427	2	3/4"	25'-0"	0	Footing
M428	2	3/4"	25'-0"	0	Footing
M429	2	3/4"	25'-0"	0	Footing
M430	2	3/4"	25'-0"	0	Footing
M431	2	3/4"	25'-0"	0	Footing
M432	2	3/4"	25'-0"	0	Footing
M433	2	3/4"	25'-0"	0	Footing
M434	2	3/4"	25'-0"	0	Footing
M435	2	3/4"	25'-0"	0	Footing
M436	2	3/4"	25'-0"	0	Footing
M437	2	3/4"	25'-0"	0	Footing
M438	2	3/4"	25'-0"	0	Footing
M439	2	3/4"	25'-0"	0	Footing
M440	2	3/4"	25'-0"	0	Footing
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M442	2	3/4"	25'-0"	0	Footing
M443	2	3/4"	25'-0"	0	Footing
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M445	2	3/4"	25'-0"	0	Footing
M446	2	3/4"	25'-0"	0	Footing
M447	2	3/4"	25'-0"	0	Footing
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M450	2	3/4"	25'-0"	0	Footing
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M452	2	3/4"	25'-0"	0	Footing
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M456	2	3/4"	25'-0"	0	Footing
M457	2	3/4"	25'-0"	0	Footing
M458	2	3/4"	25'-0"	0	Footing
M459	2	3/4"	25'-0"	0	Footing
M460	2	3/4"	25'-0"	0	Footing
M461	2	3/4"	25'-0"	0	Footing
M462	2	3/4"	25'-0"	0	Footing
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M468	2	3/4"	25'-0"	0	Footing
M469	2	3/4"	25'-0"	0	Footing
M470	2	3/4"	25'-0"	0	Footing
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M477	2	3/4"	25'-0"	0	Footing
M478	2	3/4"	25'-0"	0	Footing
M479	2	3/4"	25'-0"	0	Footing
M480	2	3/4"	25'-0"	0	Footing
M481	2	3/4"	25'-0"	0	Footing
M482	2	3/4"	25'-0"	0	Footing
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M496	2	3/4"	25'-0"	0	Footing
M497	2	3/4"	25'-0"	0	Footing
M498	2	3/4"	25'-0"	0	Footing
M499	2	3/4"	25'-0"	0	Footing
M500	2	3/4"	25'-0"	0	Footing



**M.E.L.P. SPICING CHAMBER, SIDEWALK AND BAR DETAILS**



PROFILE	1936
NOTE BOOK	1936
NO.	1936
DATE	1936
BY	1936
FOR	1936



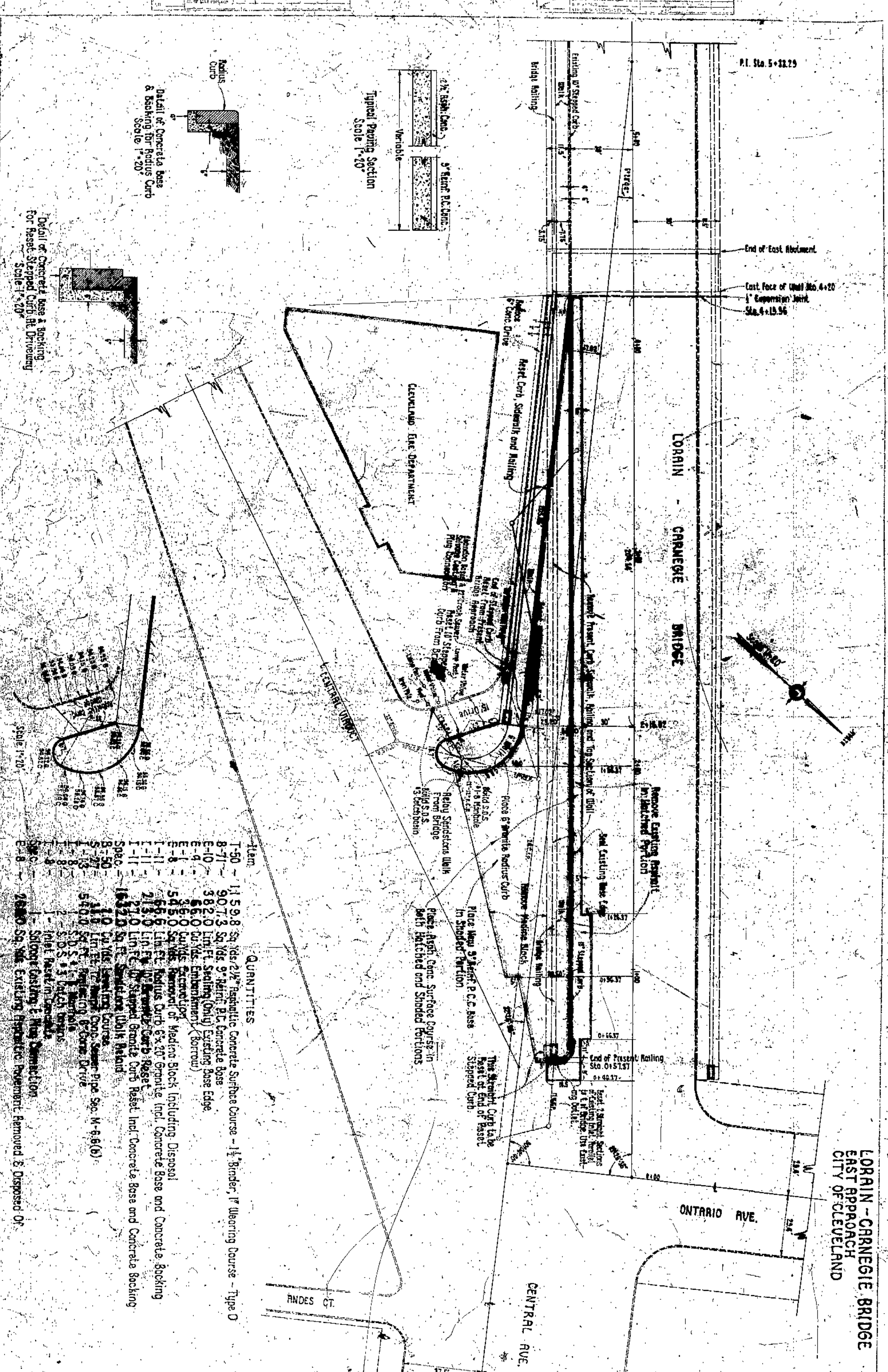
**RAILING DETAILS**

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

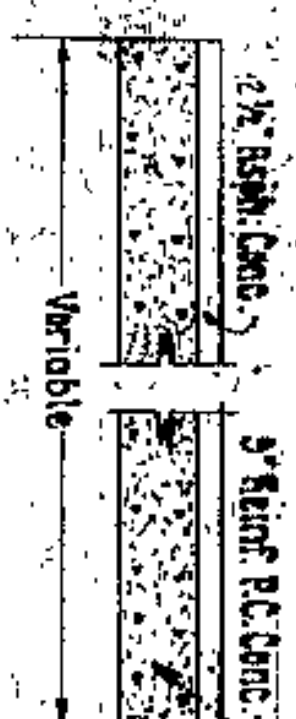


LORAIN - CRANEIGIE BRIDGE  
EAST APPROACH  
CITY OF CLEVELAND

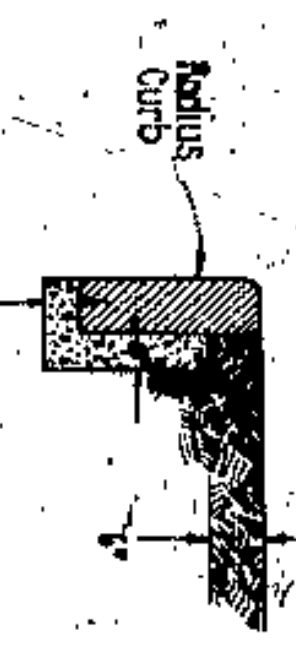
P.I. Sta. 5+32.25



Typical Paving Section  
Scale 1"=20'



Detail of Concrete Base & Backing for Radius Curb  
Scale 1"=20'



Detail of Concrete Base & Backing for Reset Stepped Curb At Driveway  
Scale 1"=20'



QUANTITIES

Item	Quantity	Description
T-50	1459.8	Sq. Yds. 2 1/2" Reinforcing Concrete Surface Course - 1 1/2" Binder, 1" Wearing Course - Type D
B-71	907.3	Sq. Yds. 9" Reinft. P.C. Concrete Base
E-10	382.0	Lin. Ft. Sealing (Only Existing Base Edge)
E-9	66.0	Cu. Yds. Embankment (Borrow)
E-8	36.0	Curbs Removal of
E-7	545.0	Curbs Removal of
E-6	66.6	Lim. Ft. Radius Curb 6"x10" Granite Incl. Concrete Base and Concrete Backing
E-5	213.0	Lim. Ft. In. Radius Curb 6"x10" Granite Incl. Concrete Base and Concrete Backing
E-4	27.0	Lim. Ft. In. Stepped Granite Curb Reset Incl. Concrete Base and Concrete Backing
E-3	1622.0	Sq. Ft. Sewerage Work Related
E-2	10	Cu. Yds. Existing Course
E-1	11.9	Lin. Ft. 12" Sewer Pipe, See M-6-6(b)
E-0	540.0	Sq. Ft. Existing Concrete
		S.D.S. # 1
		S.D.S. # 3
		Inlet Restraint Concrete
		Slope Casting & Ring Connection
		2680 Sq. Yds. Existing Asphalt Pavement Removed & Disposed Of



110 100 90 80 70 60 50 40 30 20 10

End Area  
Cut Fill  
Cu. Yds.  
Cut Fill

Sta. 1+56.37

Sta. 1+36.37

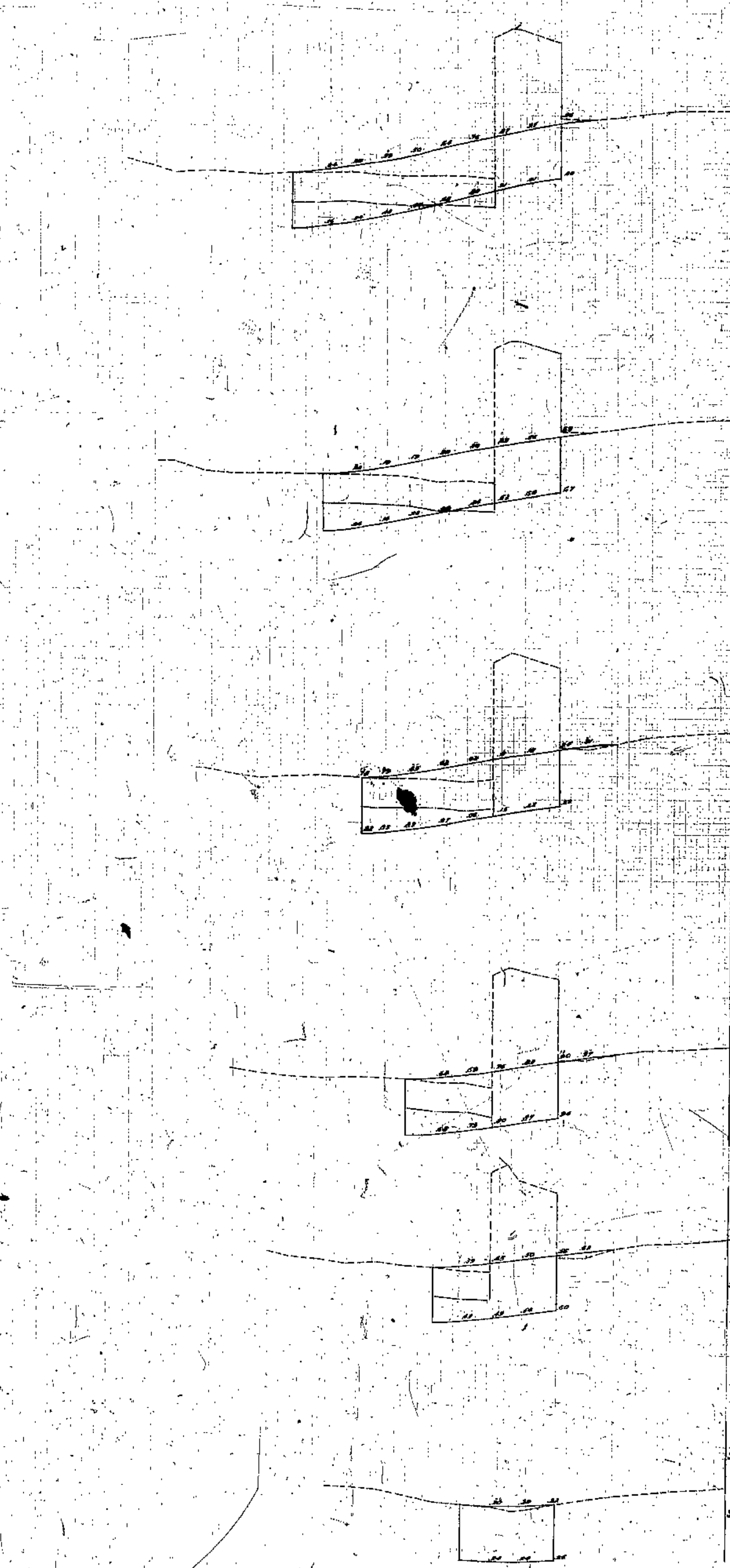
Sta. 1+16.37

Sta. 0+96.37

Sta. 0+76.37

Sta. 0+56.37

Sta. 0+46.37



Station	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
1+56.37	7	2		
1+36.37	7	1		
1+16.37	7	0		
0+96.37	6	0		
0+76.37	0	0		
0+56.37	0	0		
0+46.37	0	0		

LINCOLN-CARNEGIE BRIDGE  
EAST APPROACH  
CITY OF CLEVELAND

10  
14

110 100 90 80 70 60 50 40 30 20 10











DESIGN	DATE
CURVE	BY
NO.	NO.

FINAL SURVEY	DATE
NOTE BOOK NO.	DATE

Elev. Hgt.	Cu. Yds.	
	Cut	Fill
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Sta 3+96.37

Sta 3+76.37

Sta 3+06.37

LORAIN-CARNEGIE BRIDGE  
EAST APPROACH  
CITY OF CLEVELAND



# GENERAL SUMMARY

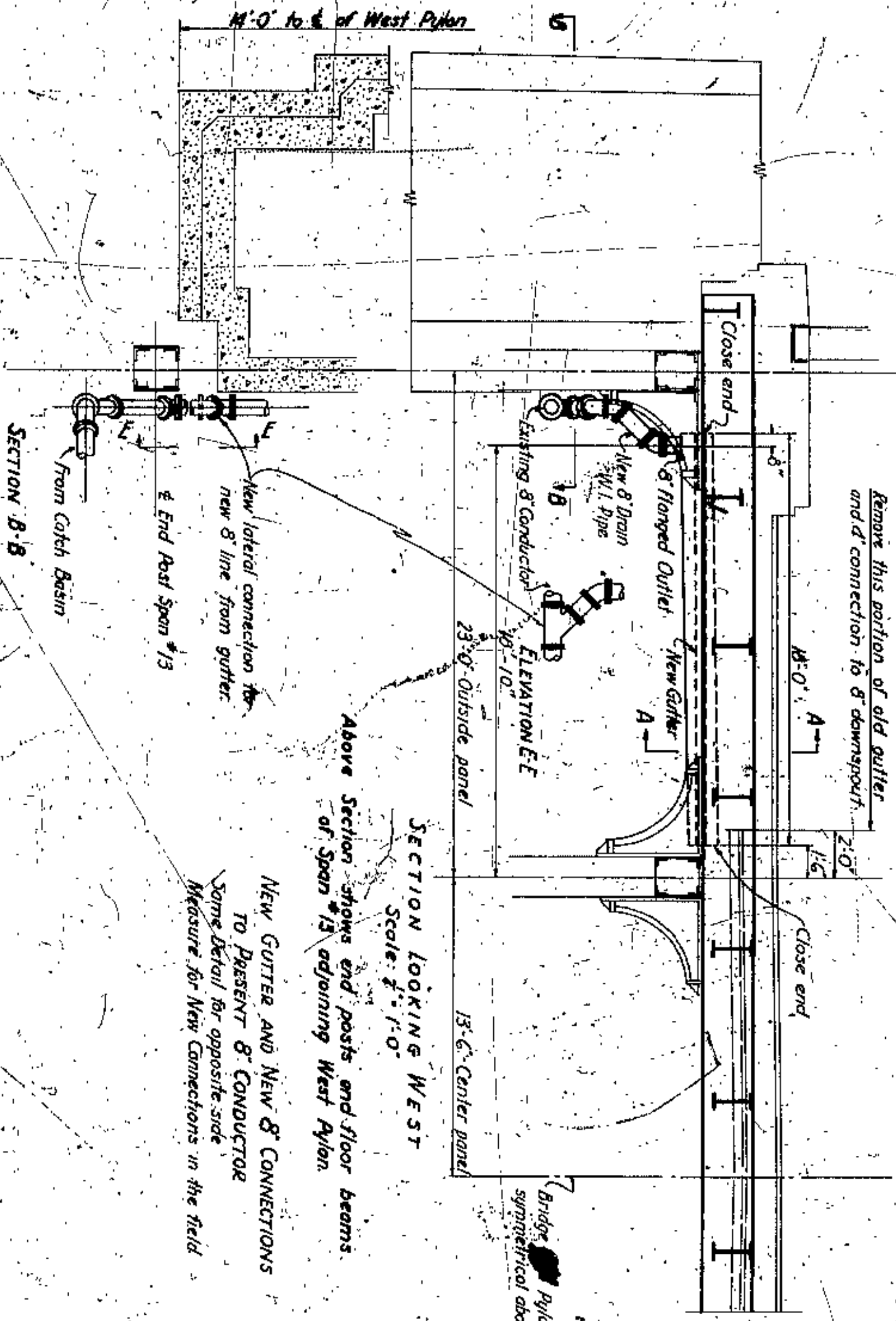
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
E-2	Removal of Structure	1100	Cu Yds
E-2	Removal of Driveway Concrete	Lump Sum	
9-2	Stone Blockwork - 12" x 8" x 4"	2250	Sq. Ft.
9-2	Stone Core - 12" x 8" x 4"	380	Lin. Ft.
9-2	Rolling - 12" x 8" x 4"	365	Lin. Ft.
9-2	Handing - 12" x 8" x 4"	1	
B-1 Spc	Concrete for Structure (125)	460	Cu Yds
9-3	Refractory Steel in Place (M-7)	22000	Lbs.
9-3	Welding - 1/2" (M-5)	720	Sq. Yds
9-3	Rolling - 1/2" (M-5)	210	Lin. Ft.
9-3	Handing - 1/2" (M-5)	1650	Sq. Ft.
9-3	For Sanding System	2	
9-27	1/2" Cast Iron Pipe (125) (M-5)	80	Lin. Ft.
9-27	1/2" Asphaltic Concrete (125) (M-5)	1180	Sq. Yds
9-7	3" Reinforced P.C. Concrete (125)	925	Sq. Yds
E-10	Sealing (on) - Existing - 1/2" (M-5)	400	Lin. Ft.
E-4	Borrow	70	Cu Yds
E-1	Excavation	50	Cu Yds
E-8	Removal of Middle Slab, including Ramp, and Removal of 6" x 20" Gravel, including Gravel Base & Backing	560	Sq. Yds
I-11	Gravel - 6" x 20"	67	Lin. Ft.
I-11	Gravel - 6" x 20"	220	Lin. Ft.
I-11	Stepped Gravel Core Road Inclusion - Concrete Base & Backing	27	Lin. Ft.
I-11	Sealing - 1/2" (M-5)	54	Sq. Ft.
B-50	Leveling Course	1650	Cu Yds
9-27	1/2" Reinforced Concrete Base (125) (M-5)	2	Cu Yds
I-12	Replacing 6" Concrete Drive	40	Lin. Ft.
I-8	S.D.S. No. 1 - 1/2" (M-5)	1000	Sq. Ft.
I-8	S.D.S. No. 1 - 1/2" (M-5)	1	
I-8	1/2" (M-5)	2	
I-8	1/2" (M-5)	1	
Spc 1	Sealing - 1/2" (M-5)	300	Sq. Yds
E-8	Existing Asphaltic Pavement Removal and Backing of	200	Hours
Spc 1	Hours of Skilled Labor	100	Hours
Spc 1	Maintaining Lights, Signs and Barriers	Lump Sum	

Note: The estimated quantities in this summary are approximate only. Whenever the quantities vary from the sum total of quantities shown elsewhere in these plans, the variation, if to prove for contingencies which cannot be anticipated with entire accuracy.



PLAN	SURVEYED	BY
NOTE BOOK	NUMBER	
NO.	PLANNING CHECKED	
	BY	
	DATE	
	BY	
	DATE	

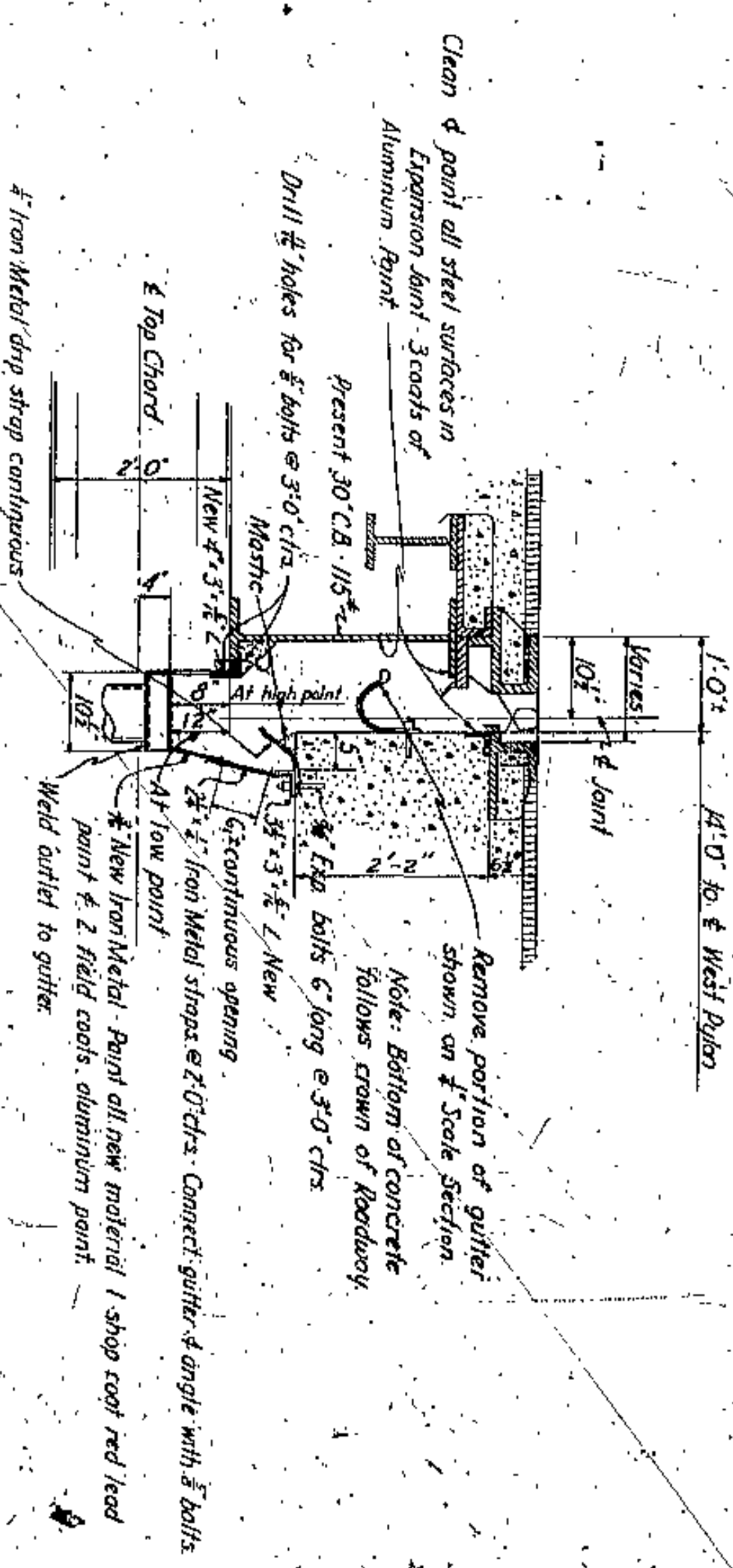
PROFILE	DESIGNED	BY	DATE
	EXISTS		
NOTE BOOK	BRIDGE CHECKED		
NO.	BY		
	DATE		
	BY		
	DATE		



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

Above Section shows end posts and floor beams of Span #13 adjoining West Pylon.

**NEW GUTTER AND NEW 8" CONNECTIONS TO PRESENT 8" CONDUCTOR**  
Some detail for opposite side Measure for New Connections in the field



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

**JOHN O. McWILLIAMS**  
COUNTY SUPERVISOR

Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_

**CHANGE IN GUTTER AT EXPANSION JOINT AT WEST PYLON**  
LORAIN CENTRAL BRIDGE  
**NO. B-23A**

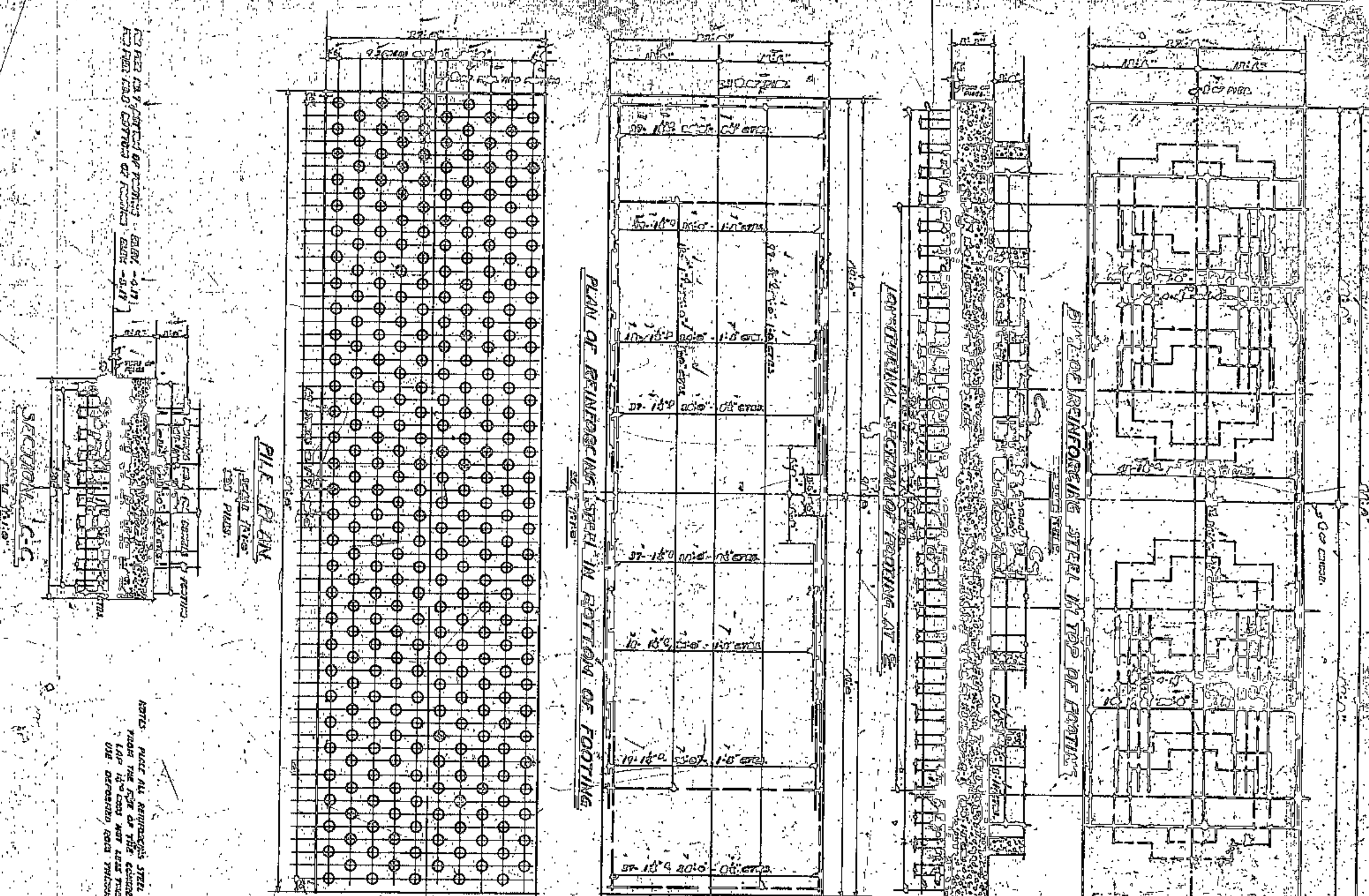
Reprint No 6627



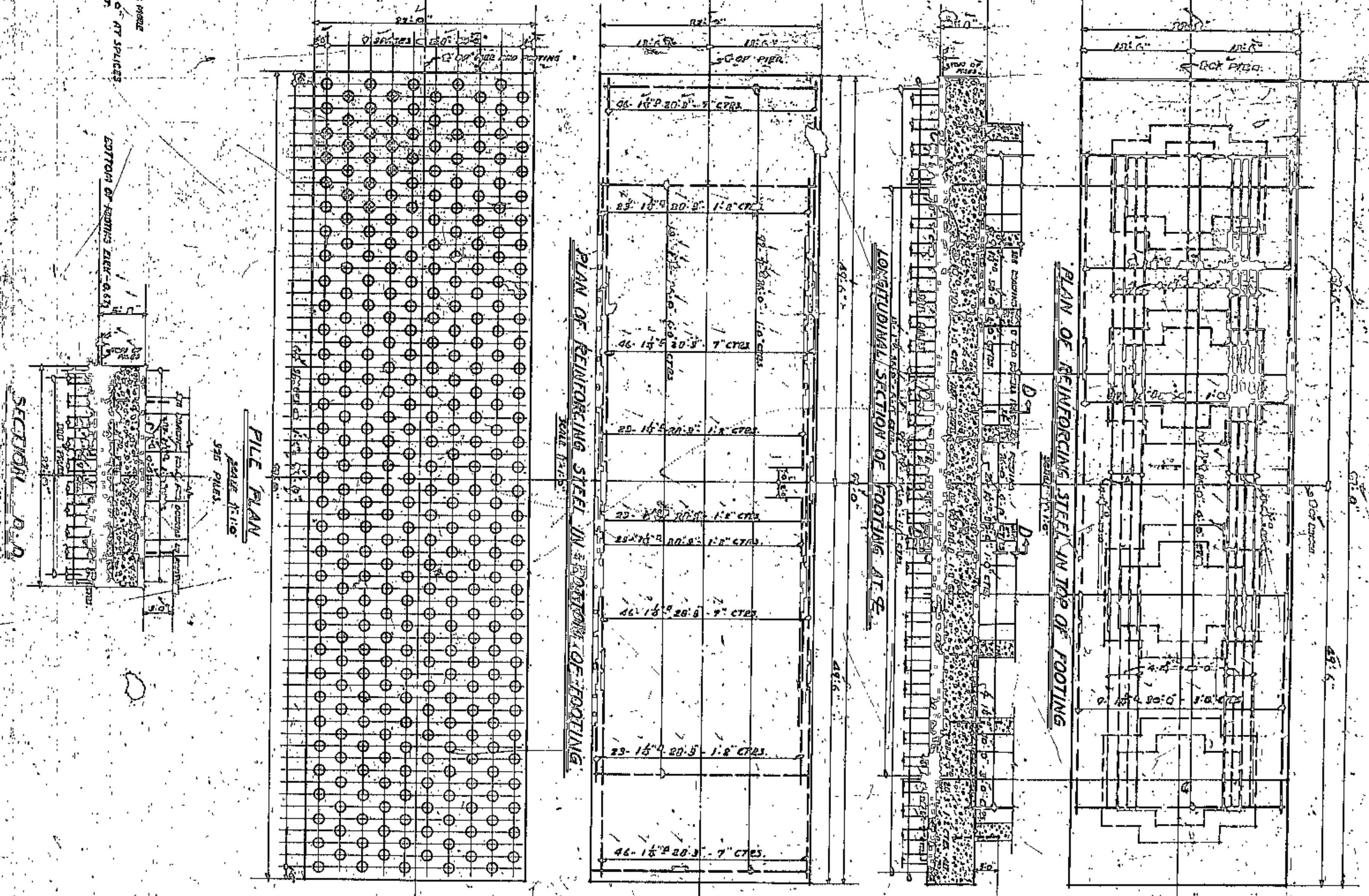




DETAILS OF FOOTINGS FOR PIERS NO. 7 AND 8.



DETAILS OF FOOTING FOR PIERS NO. 9 AND 11.



APPROVED BY

*[Signature]*

CO. COMM. ENGINEER

CO. COMM. ENGINEER

CO. COMM. ENGINEER

CUYAHOGA COUNTY

BOARD OF COMMISSIONERS

J. R. ZIMMERT

J. H. HARRIS

R. E. COOK

COUNTY BRIDGE ENGINEER

A. M. FEEGATE

LODAIN CENTRAL BRIDGE

CLEVELAND

PIERS 7-9 AND 11

FOOTINGS

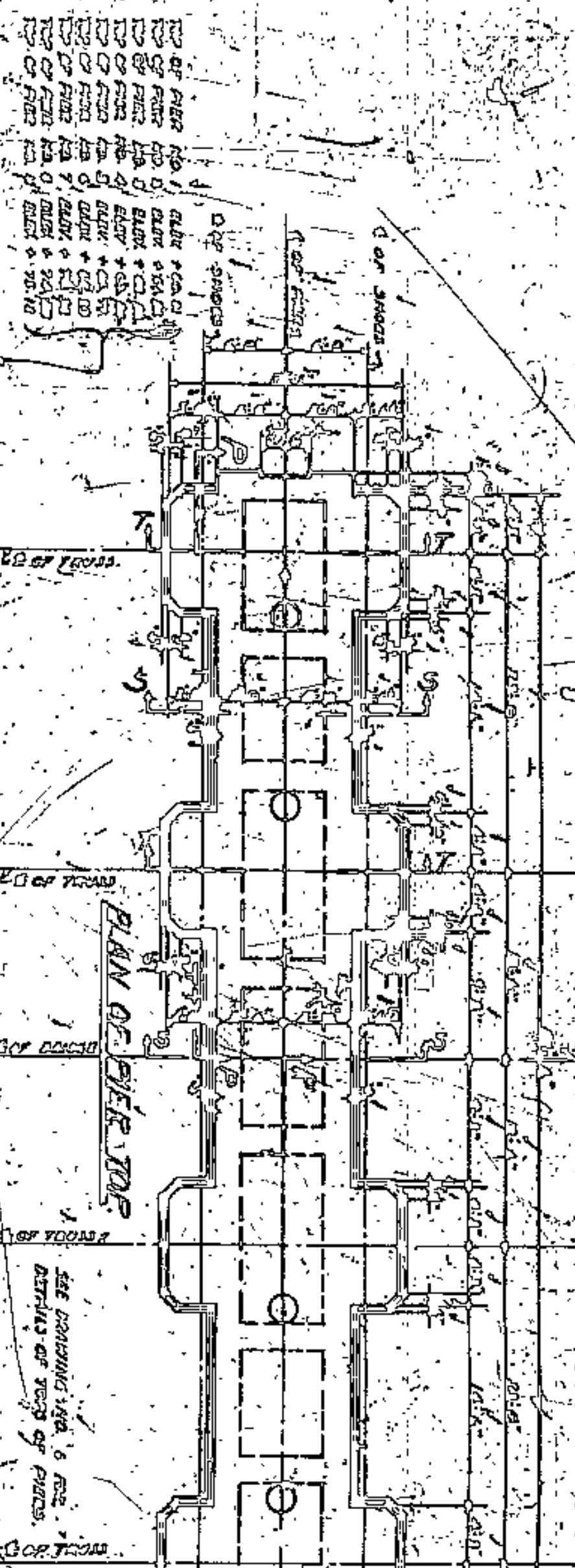
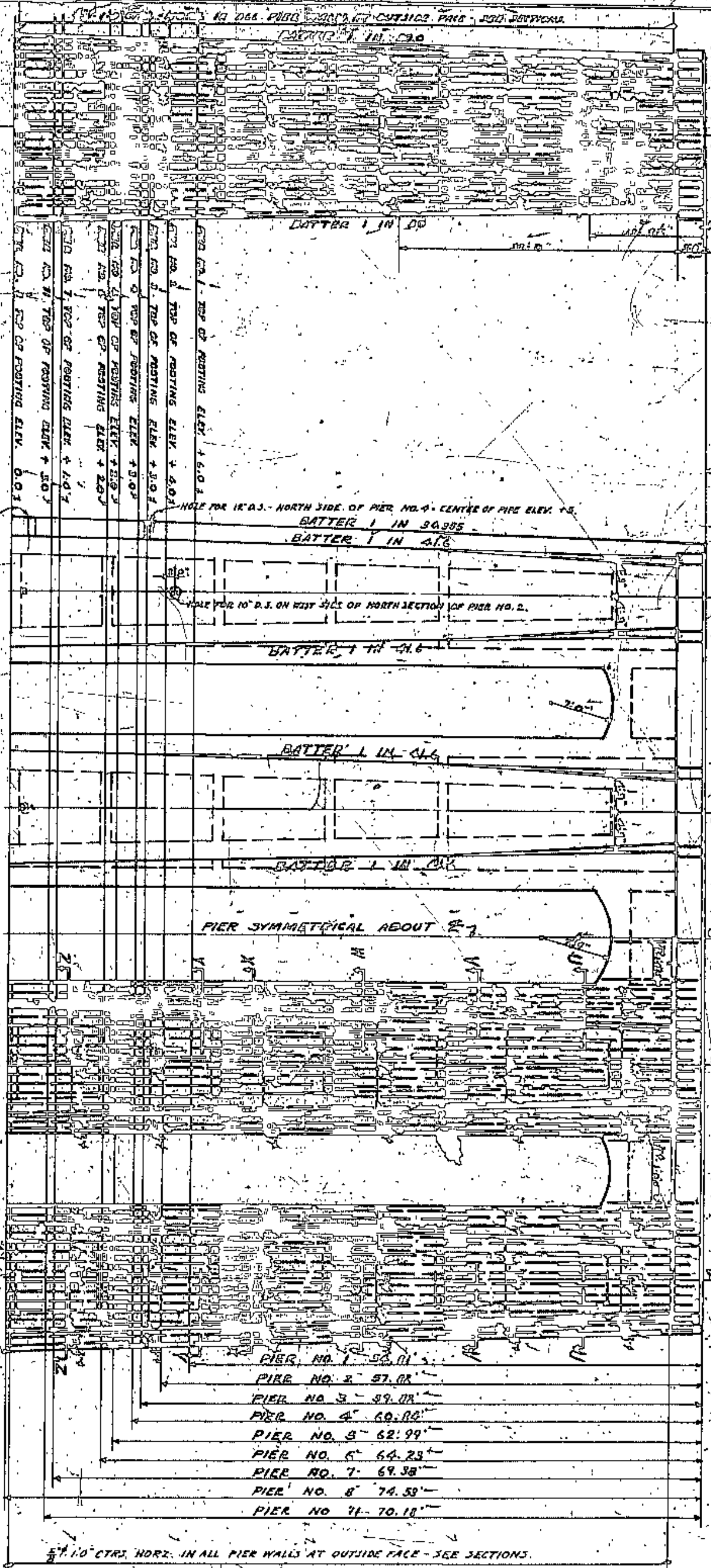
SCALE: 1/4" = 1'-0"	DATE: 1914	NO. 3
LORD WATSON AND FRANKLIN		
STRUCTURAL ENGINEERS AND ARCHITECTS		
CLEVELAND		



END ELEVATION

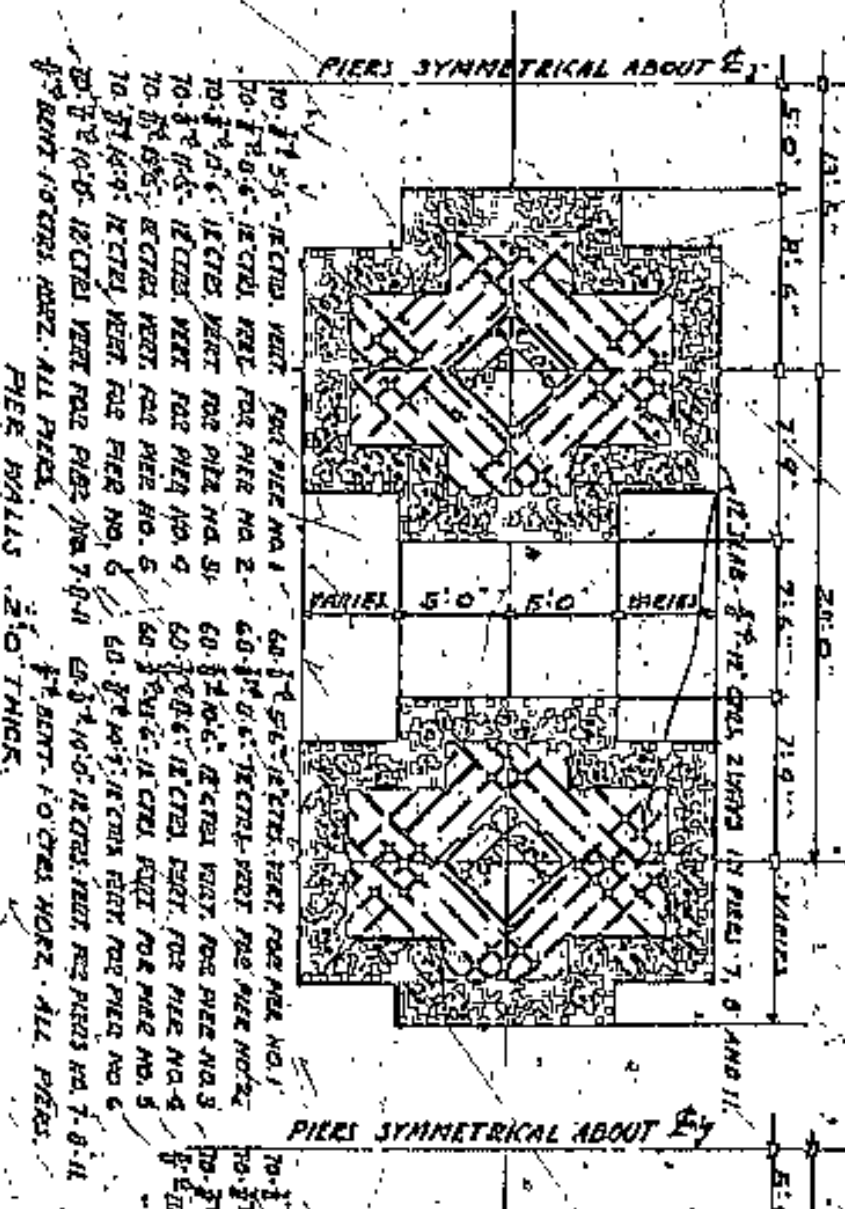
SIDE ELEVATION OF PIERS 1, 2, 3, 4, 5, 6, 7 & 8 AND 11

SCALE 1/4" = 1'-0"



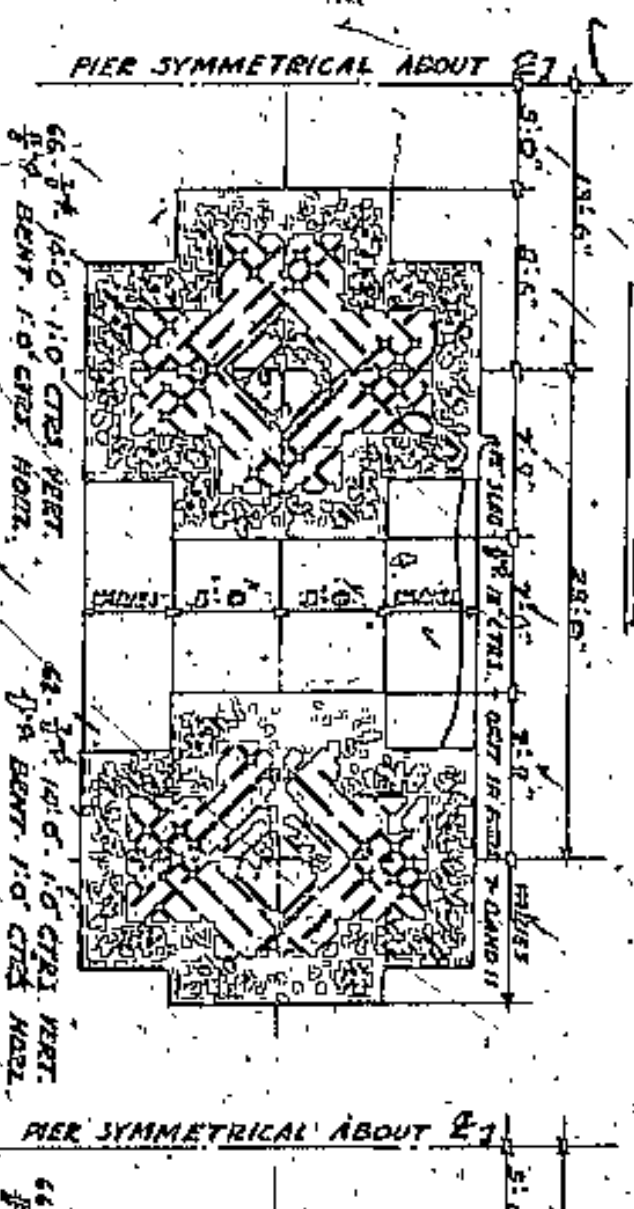
SECTION Y-Y

SCALE OF SECTIONS 1/4" = 1'-0"



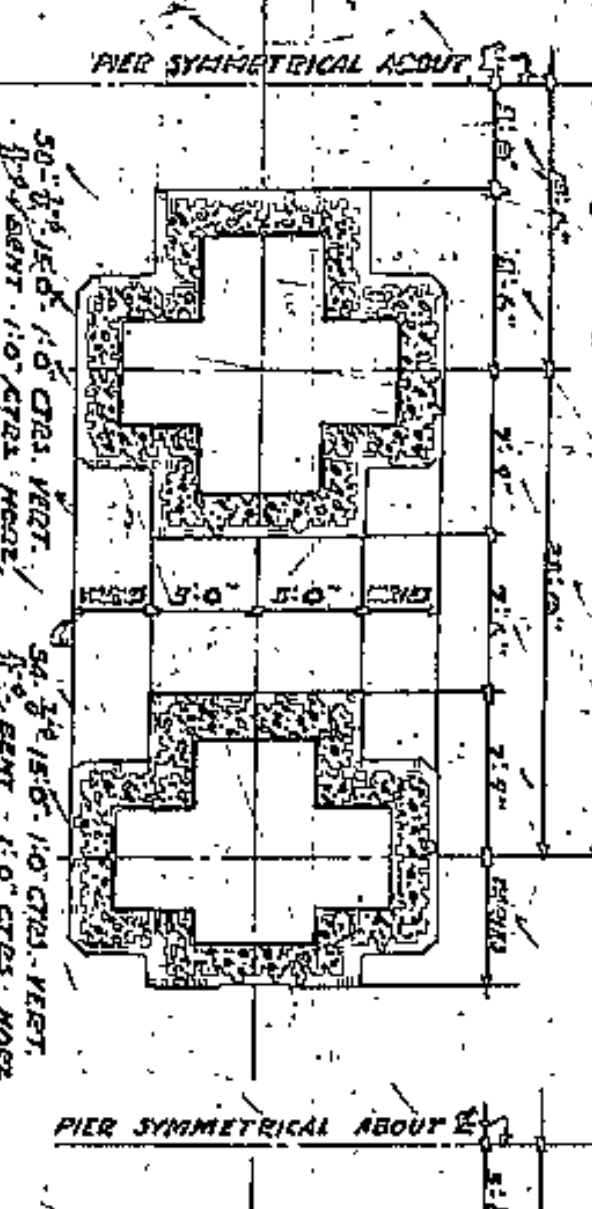
SECTION M-M

SCALE OF SECTIONS 1/4" = 1'-0"



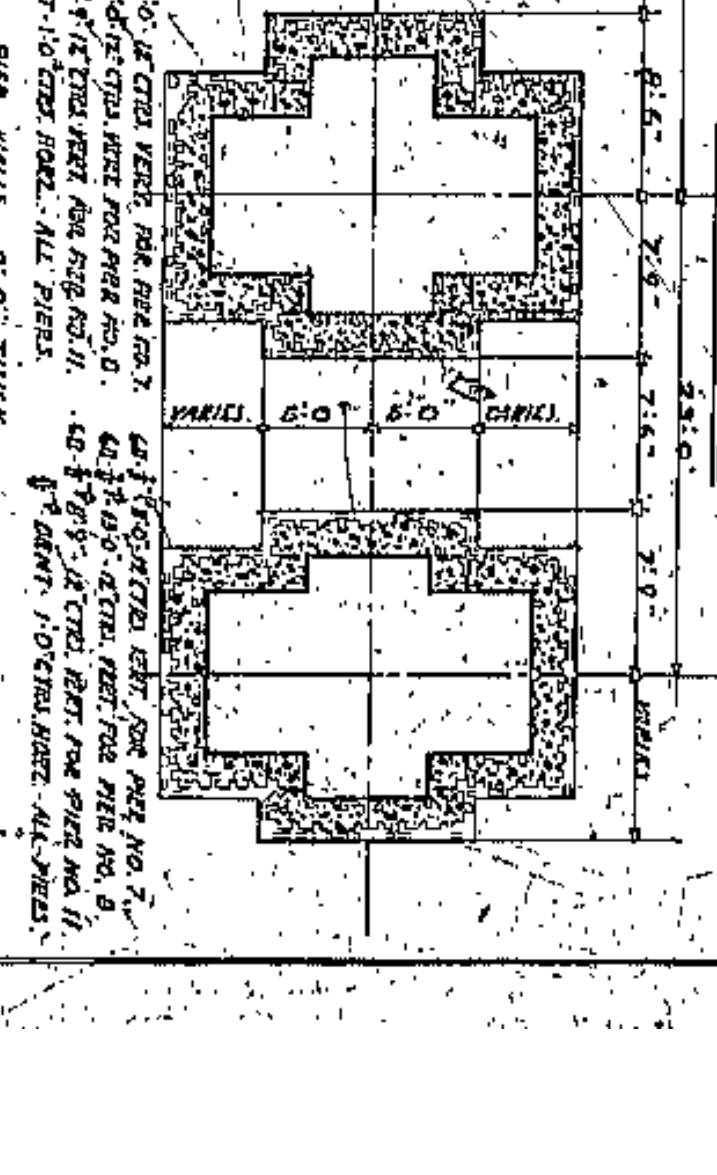
SECTION U-U

SCALE OF SECTIONS 1/4" = 1'-0"



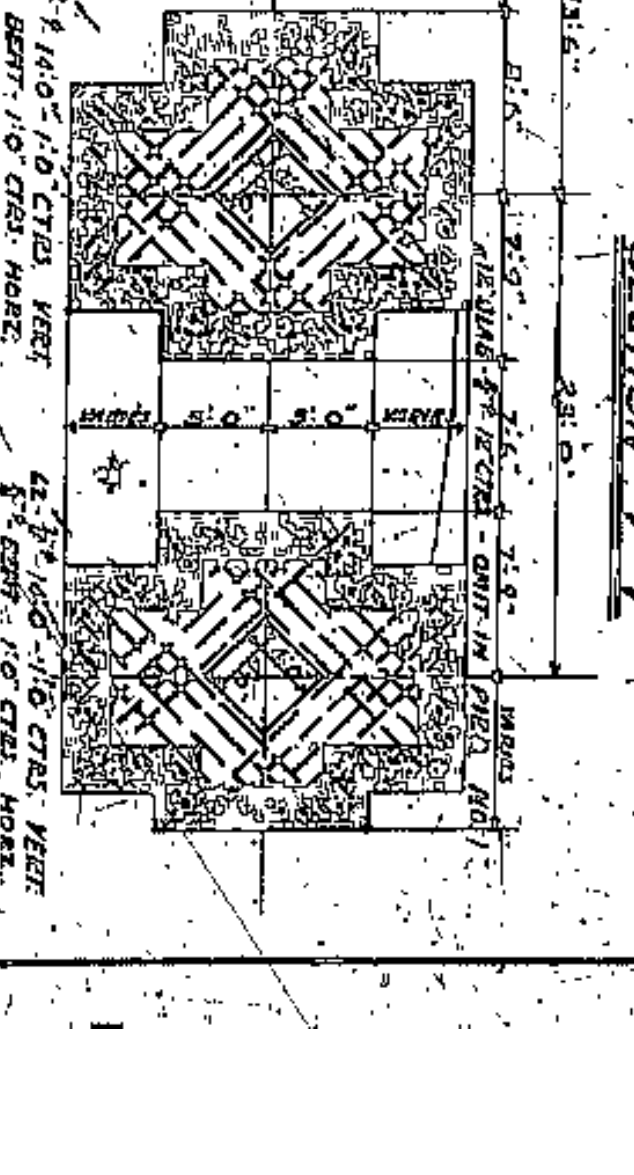
SECTION Z-Z

SCALE OF SECTIONS 1/4" = 1'-0"



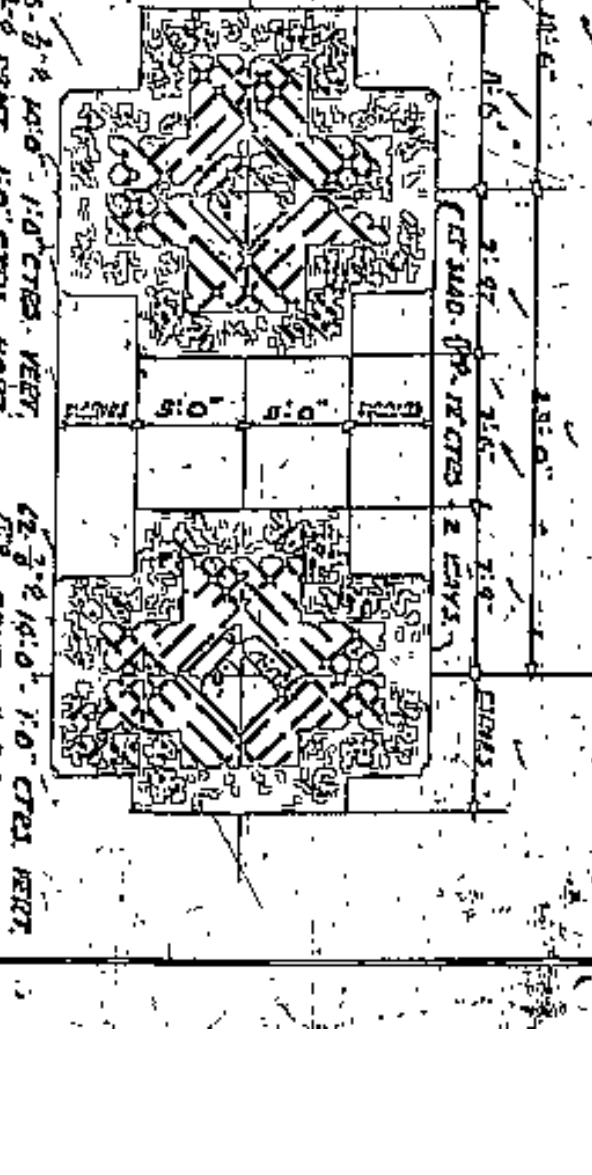
SECTION X-X


SCALE OF SECTIONS 1/4" = 1'-0"



SECTION V-V

SCALE OF SECTIONS 1/4" = 1'-0"



APPROVED BY  
  
 A.M. FELLGATE  
 COUNTY BRIDGE ENGINEER

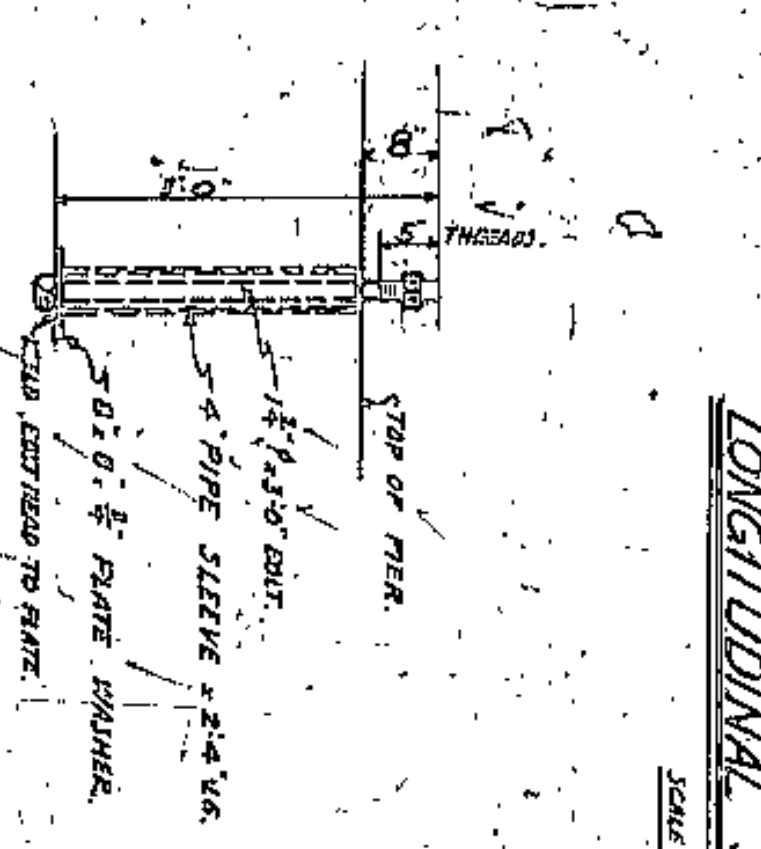
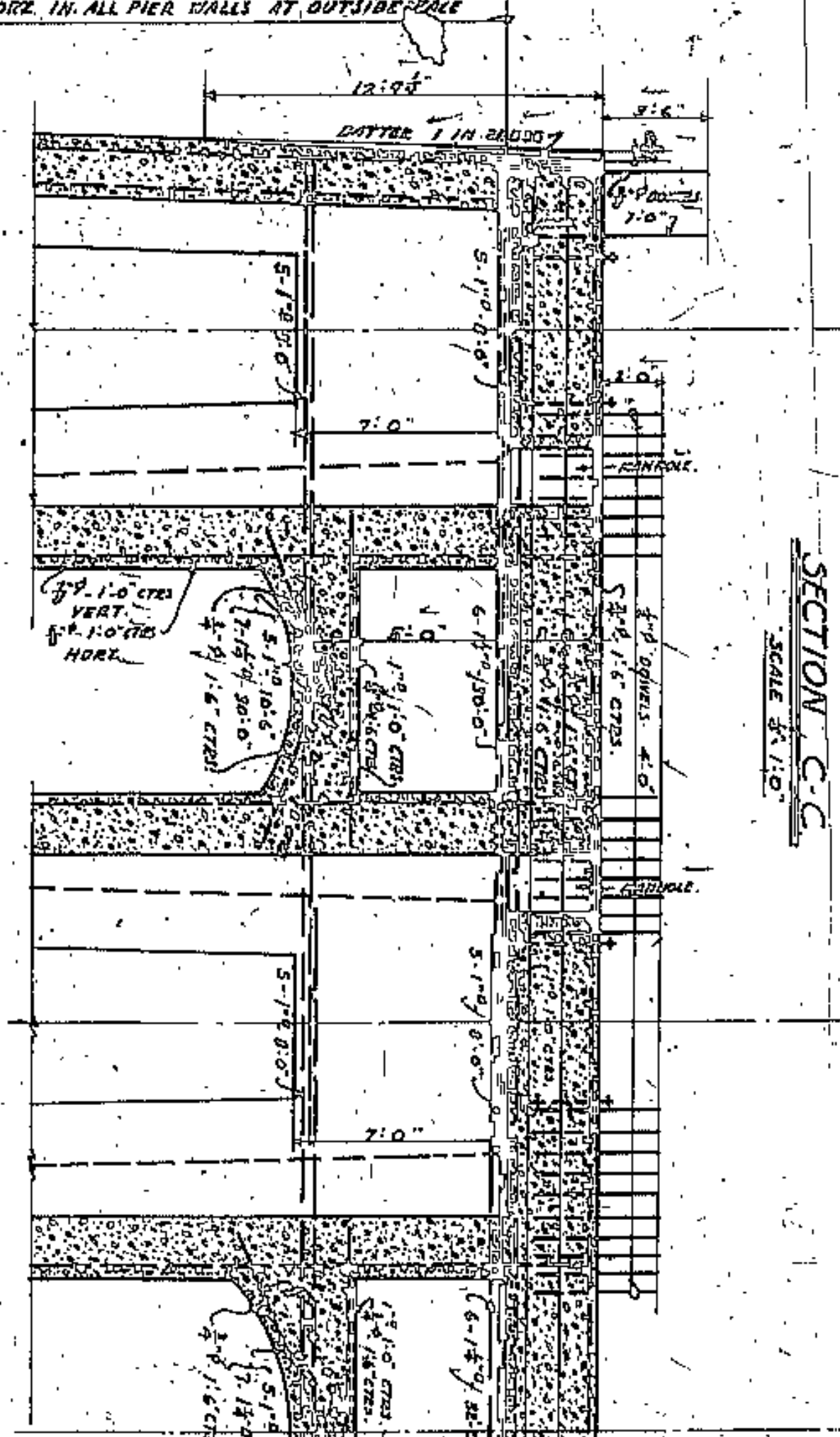
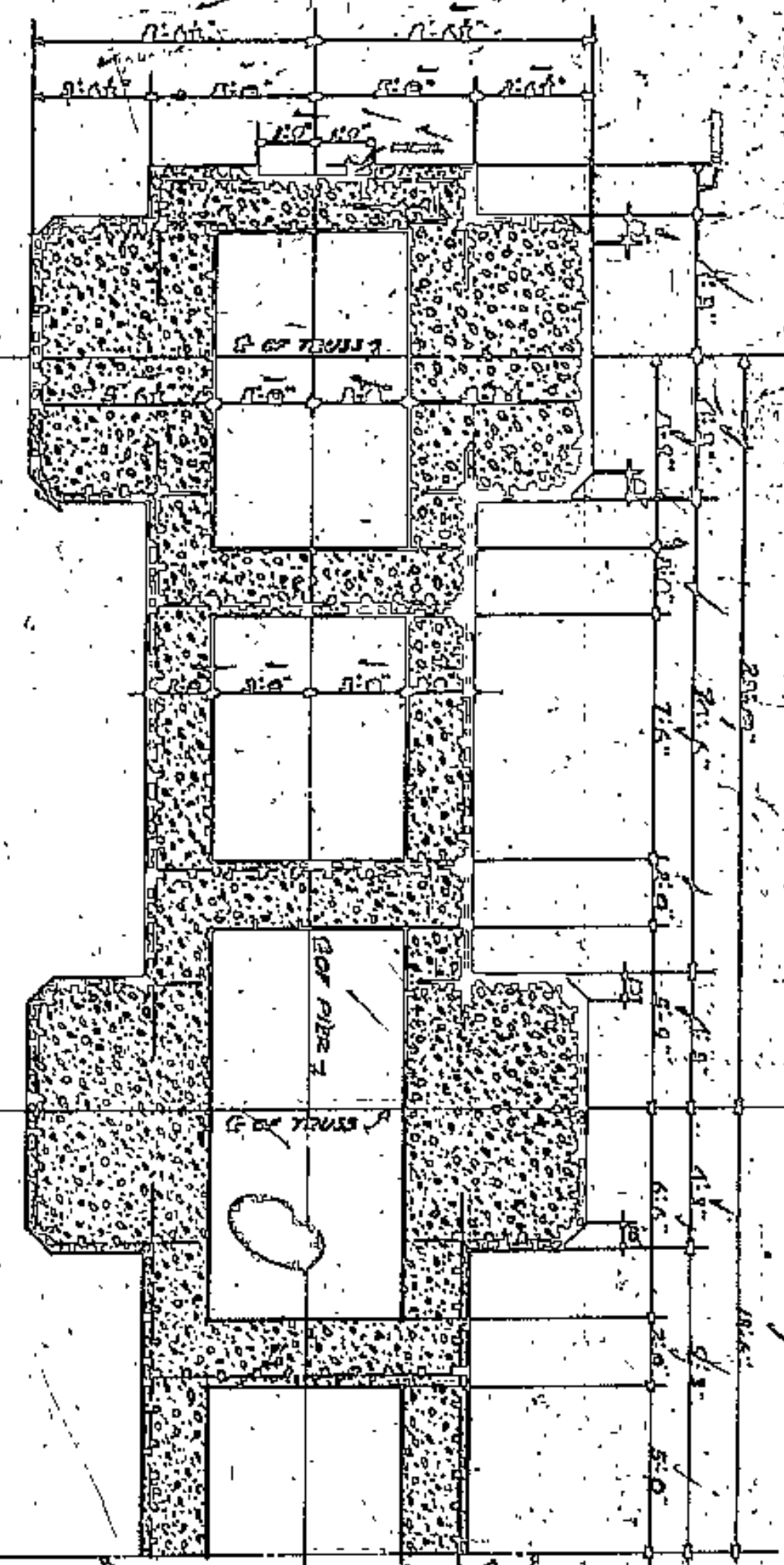
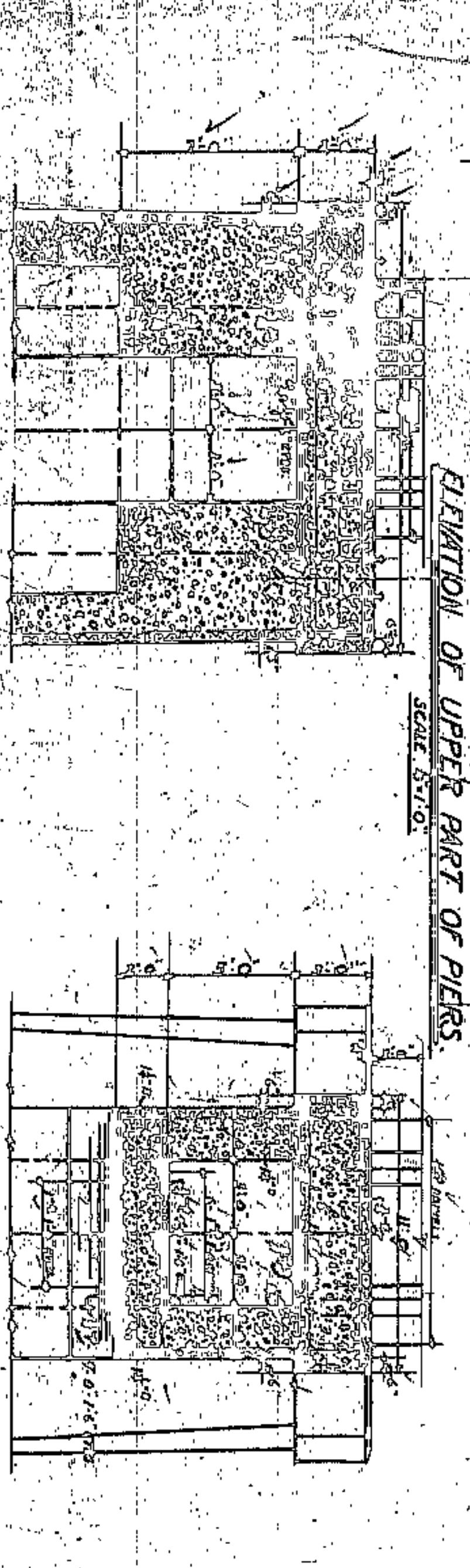
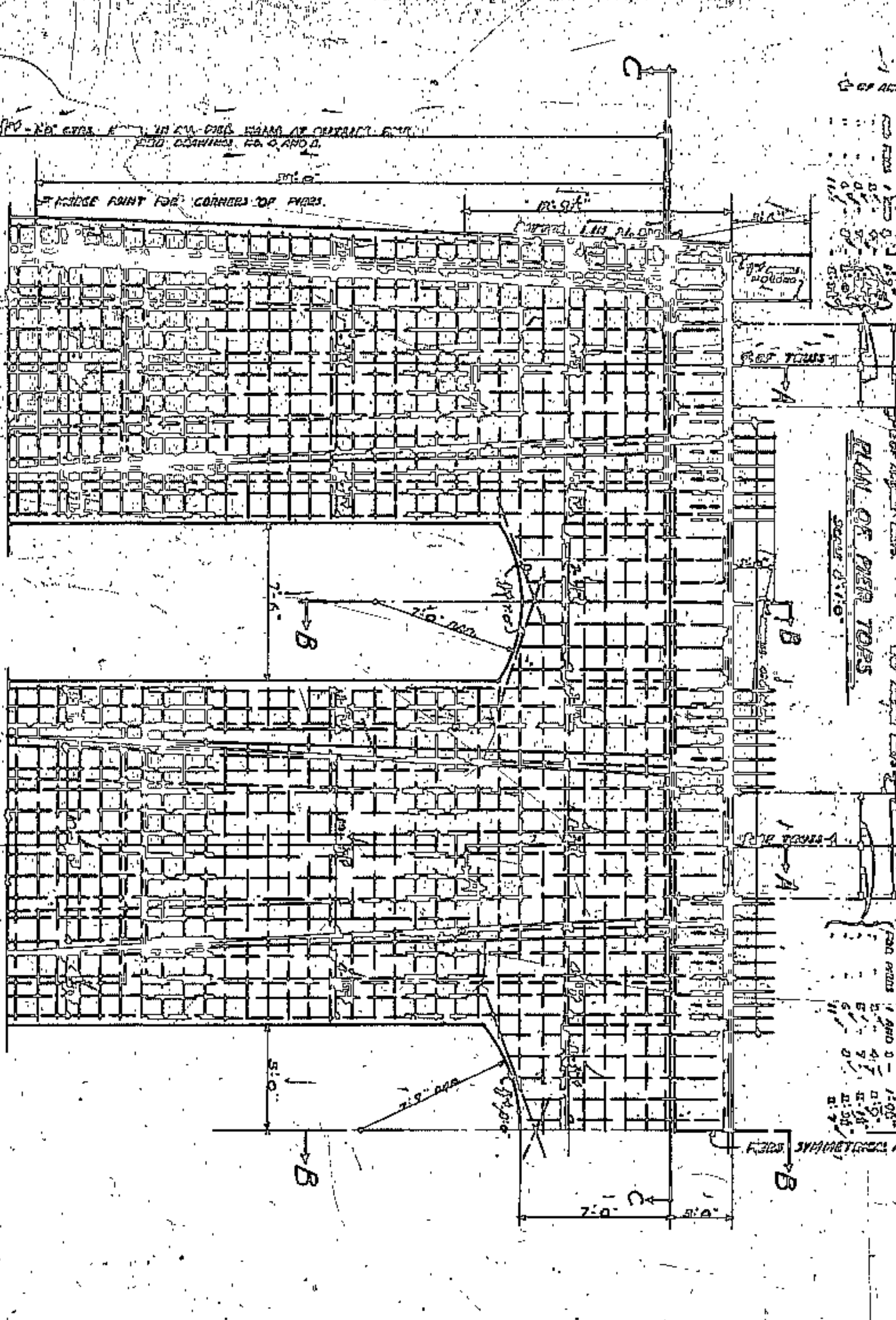
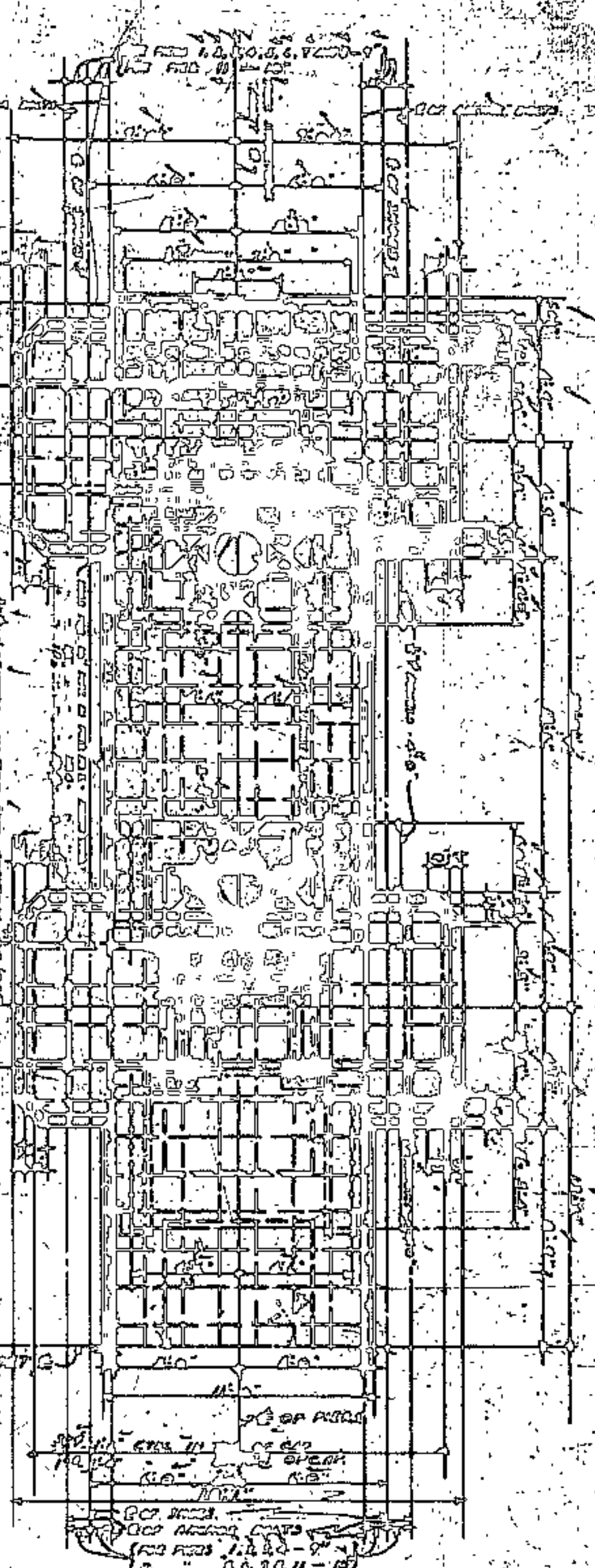
CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SURVEYOR
J. R. ZIMONT	F. R. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. E. COOK	A. M. FELLGATE
<b>LORAIN CENTRAL BRIDGE</b>	
CLEVELAND	
PIERS #1-2-3-4-5-6-7-8 AND 11	
ELEVATIONS 1/5 SECTIONS	
SCALE 1/4" = 1'-0"	DATE
DESIGNED BY	CHECKED BY
DRAWN BY	DATE
PROJECT NO.	DATE
NO. OF SHEETS	DATE
TOTAL SHEETS	DATE

CONTR. ENGR. CO. CLEVELAND, OHIO









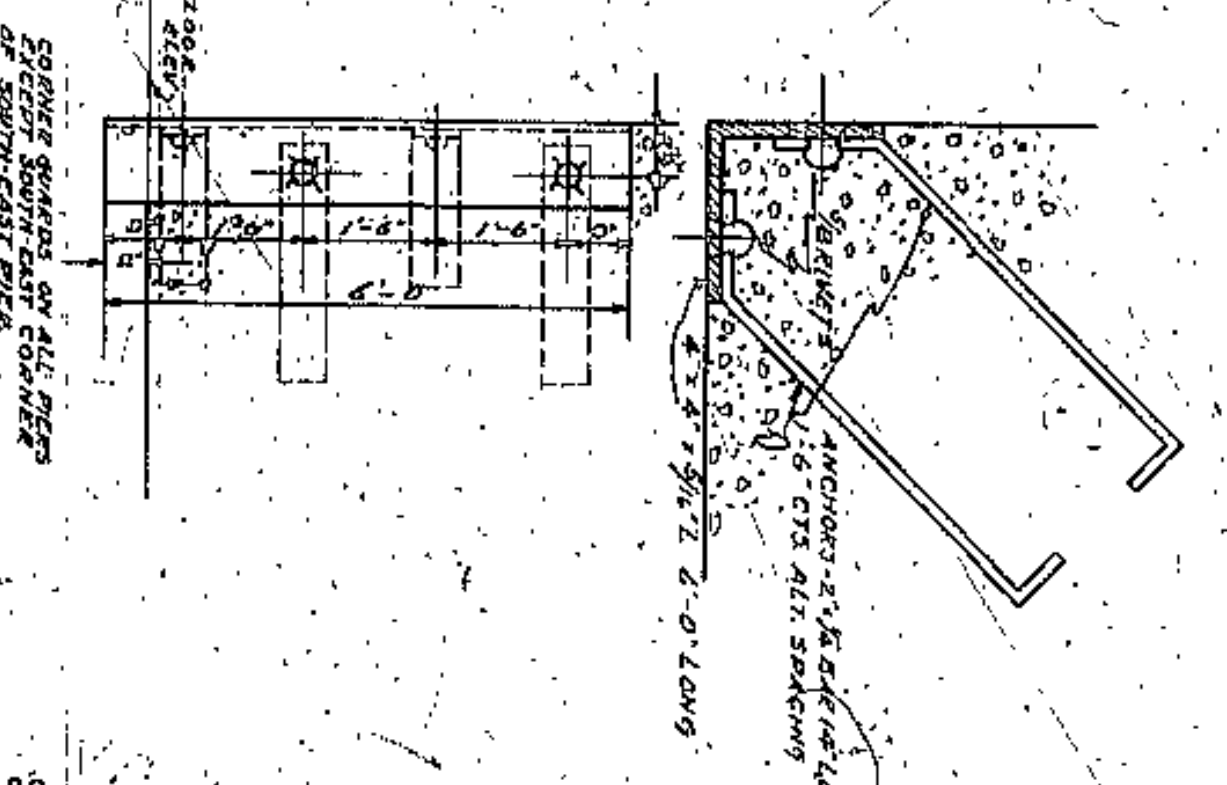
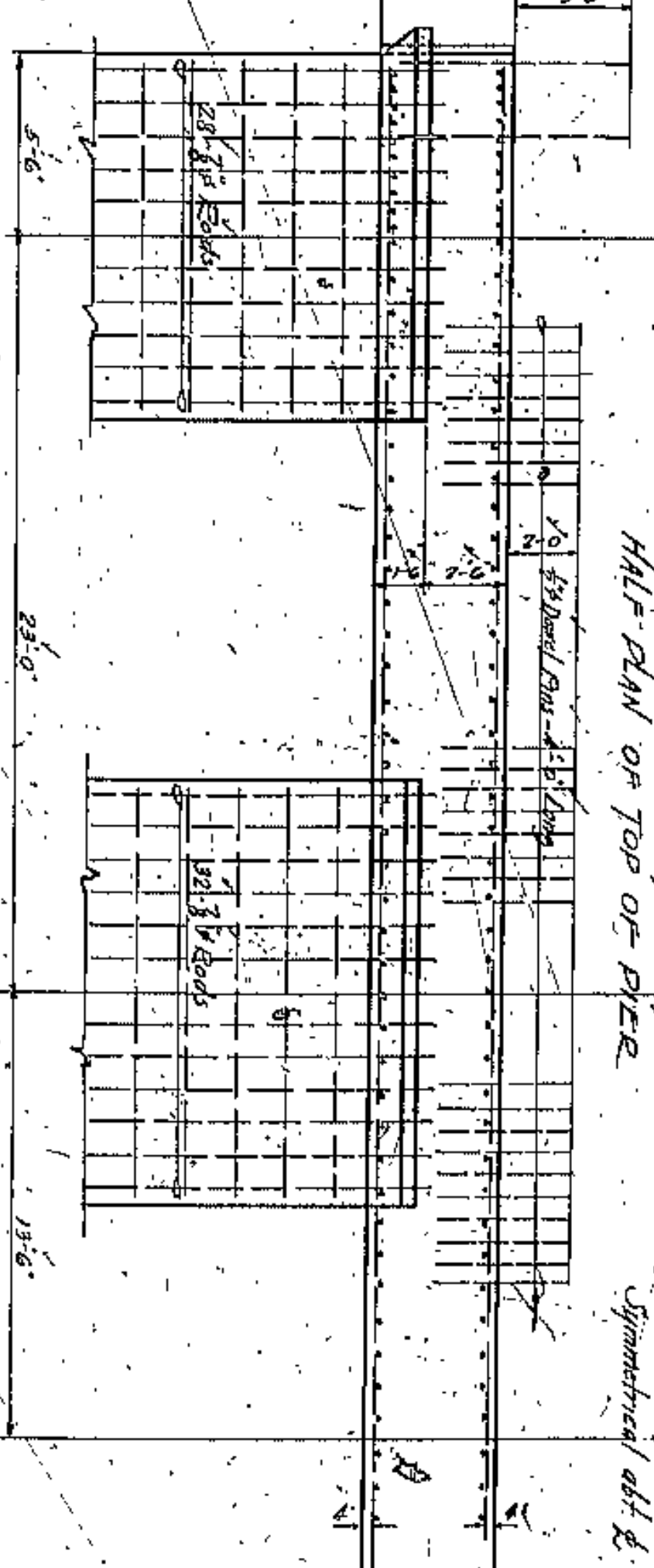
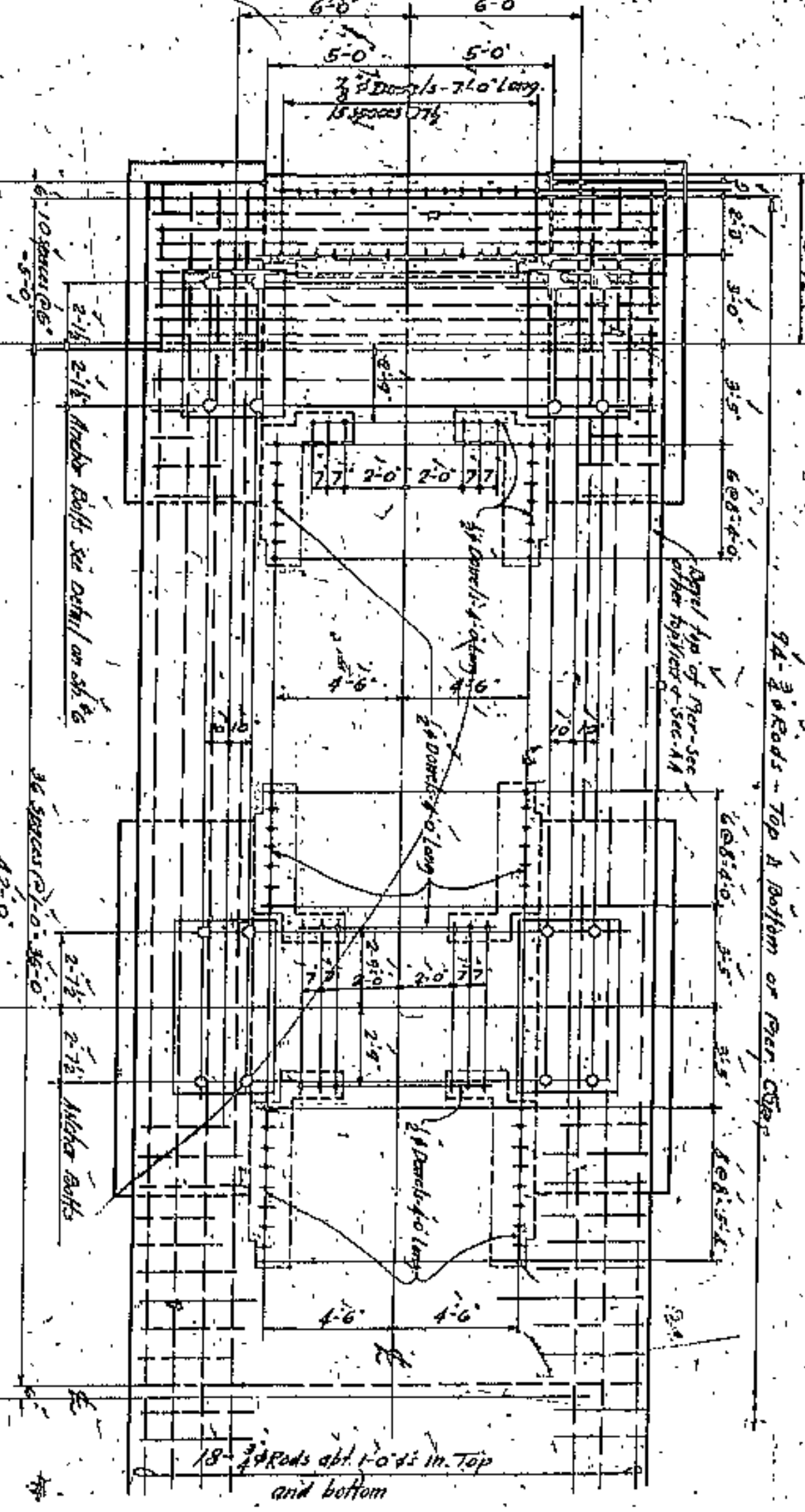
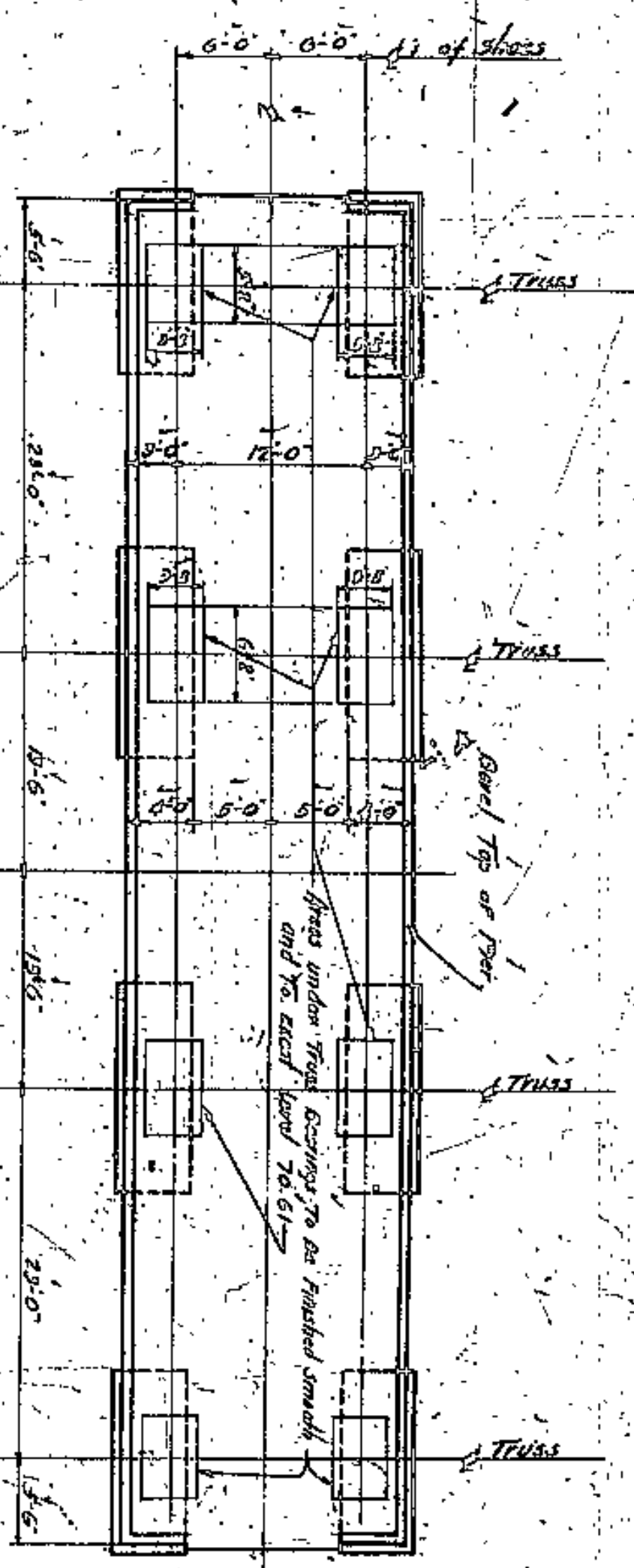
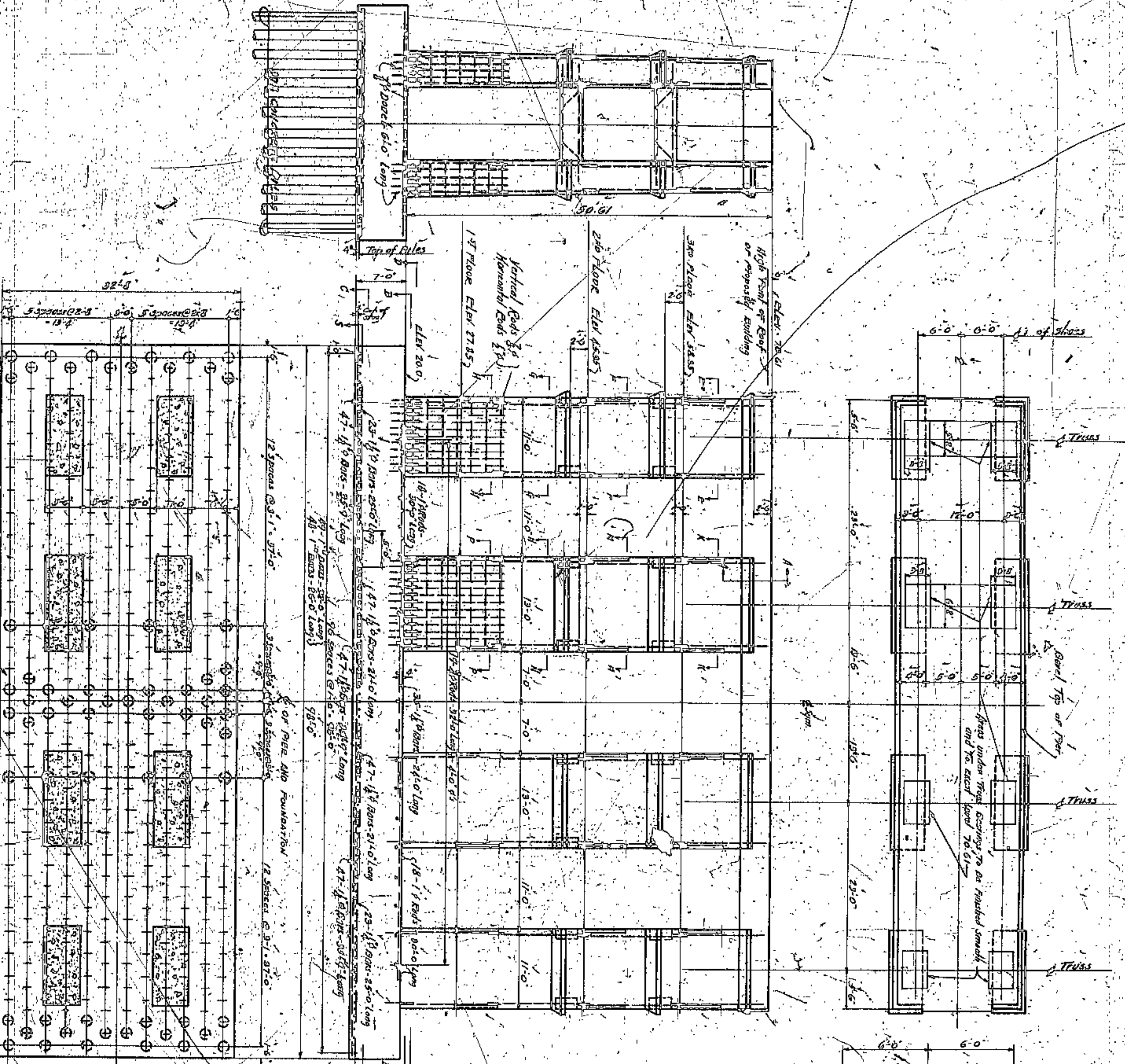
NOTES:  
 DETAILS SHOWN ON THIS DRAWING ARE TYPICAL FOR PIERS NO. 1, 2, 3, 4, 5, 6, 7, 8 AND 11.  
 REINFORCING STEEL NOT LESS THAN 4" CLEAR FROM THE FACE OF THE CONCRETE.  
 ELEVATIONS OF THE TOP OF THE PIERS ARE SHOWN ON DRAWING NO. 4 AND 5.  
 TOPS OF PIERS TO BE FINISHED SMOOTH AND LEVEL AND TO EXACT ELEVATION SHOWN ON THIS DRAWING.

APPROVED BY

CO. ARCHT.  
 CO. ENGR.  
 CO. DRS.  
 CO. CIVIL

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SURVEYOR
J. B. ZIMMERT	F. R. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. E. COOK	A. M. FELGATE
<b>LORAIN CENTRAL BRIDGE</b>	
CLEVELAND	
PIERS 1-2-3-4-5-6-7-8 AND 11	DETAIL OF TOPS OF PIERS
SCALE 3/16"	
DESIGNED BY	WILLIAM WATSON AND F. WALKER
CHECKED BY	WILLIAM WATSON AND F. WALKER
DATE	APRIL 1, 1910
NO.	4364
ENGINEERS AND ARCHITECTS	CLEVELAND
6	





Section D-D  
Scale 1/4\"/>

Approved by  
 J. H. Hareus  
 County Bridge Engineer

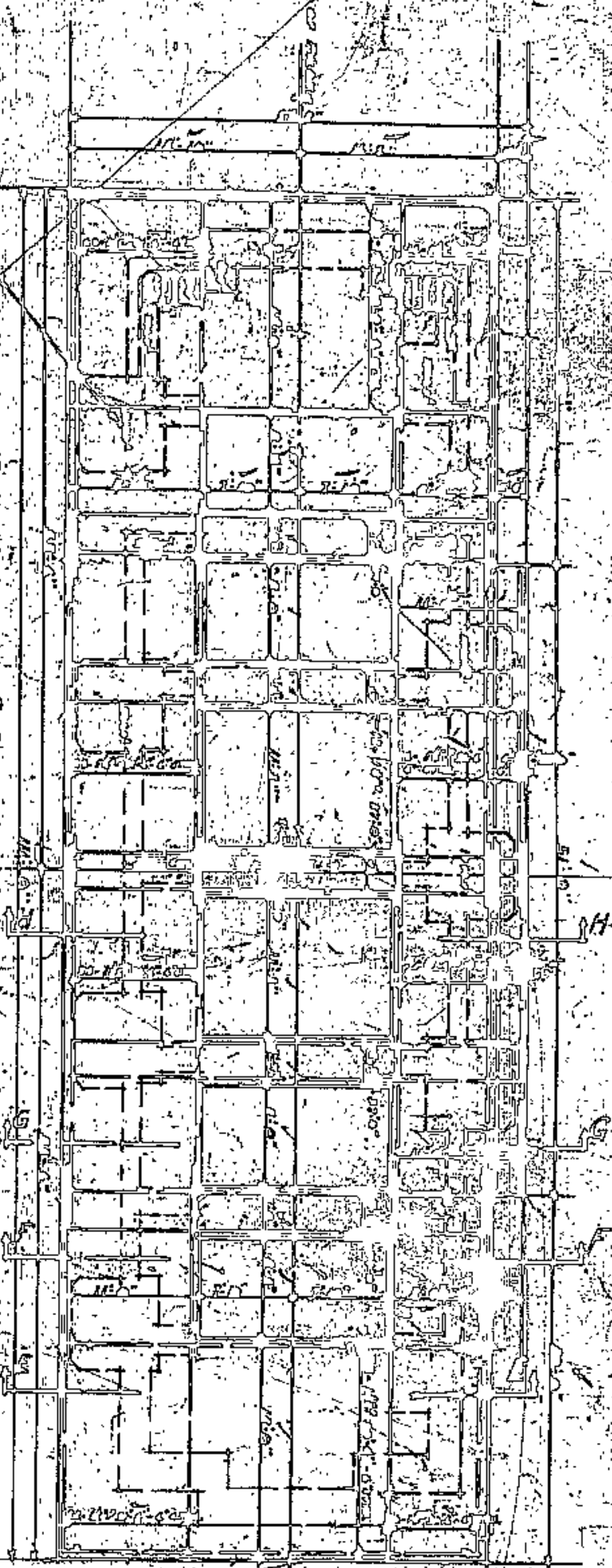
CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	
J. R. ZIMMONT	COUNTY SURETYOR
J. H. HAREUS	F. R. WILLIAMS
W. E. COOK	COUNTY BRIDGE ENGINEER
A. M. PELCATE	
PIER NO. 12	
PLANS, ELEVATION & SECTIONS	
DRAWN BY: J. H. HAREUS	
CHECKED BY: J. H. HAREUS	
DATE: 1917	
PROJECT NO. 4364	
CITY OF CLEVELAND	
ENGINEER: J. H. HAREUS	
ARCHITECT: J. H. HAREUS	
SCALE: 1/4\"/>	

LORAIN CENTRAL BRIDGE  
 CLEVELAND

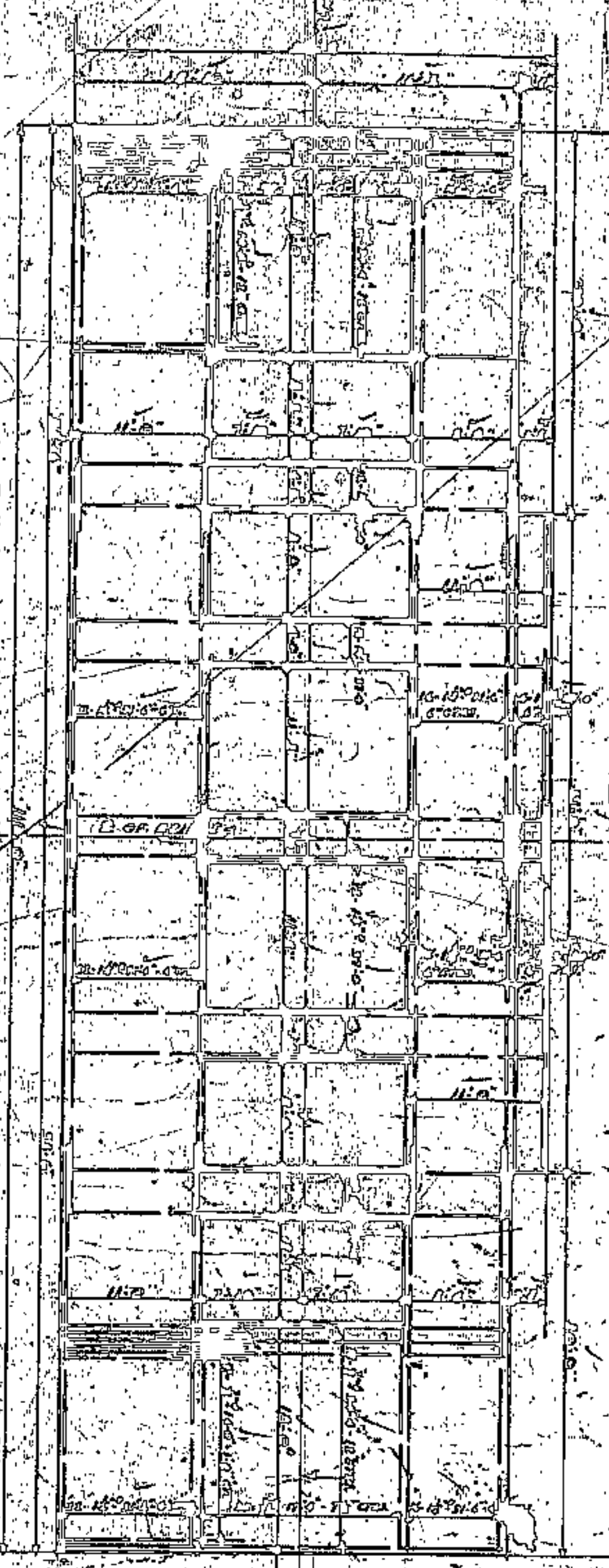




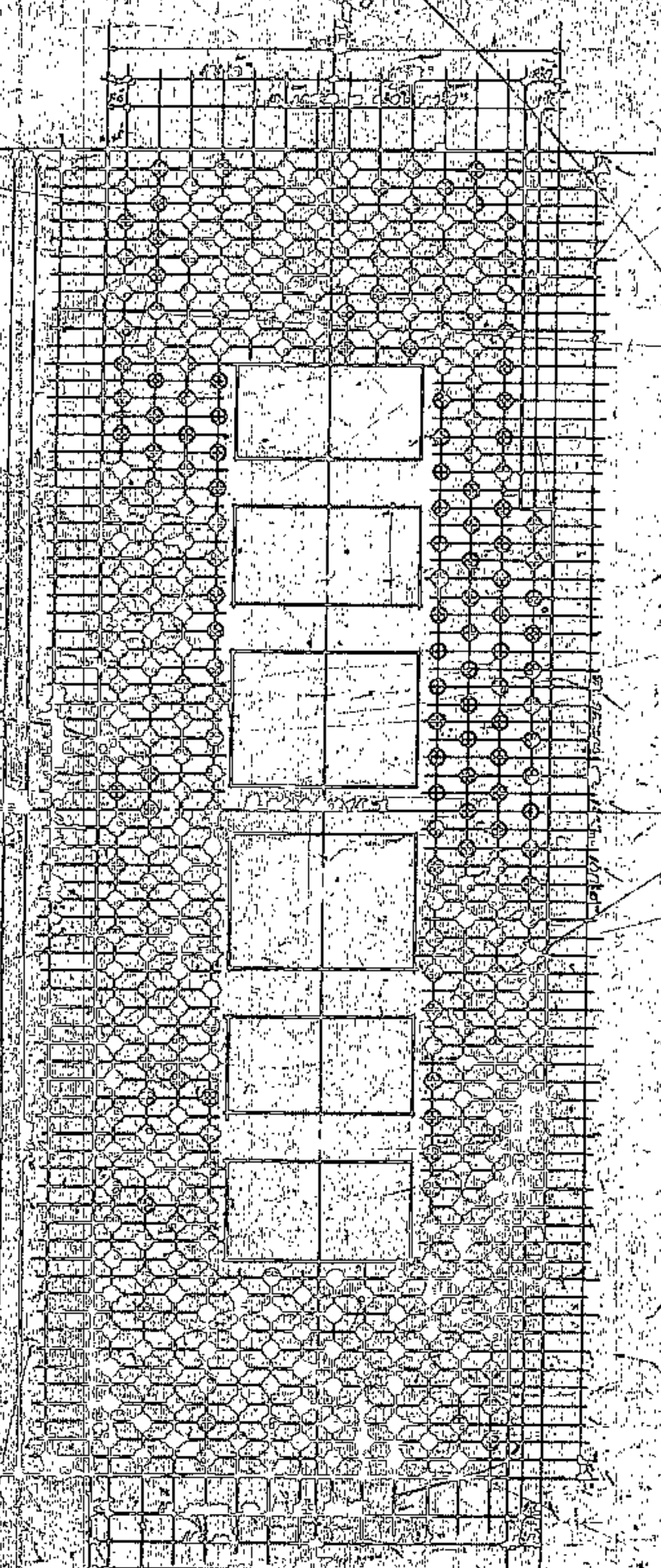




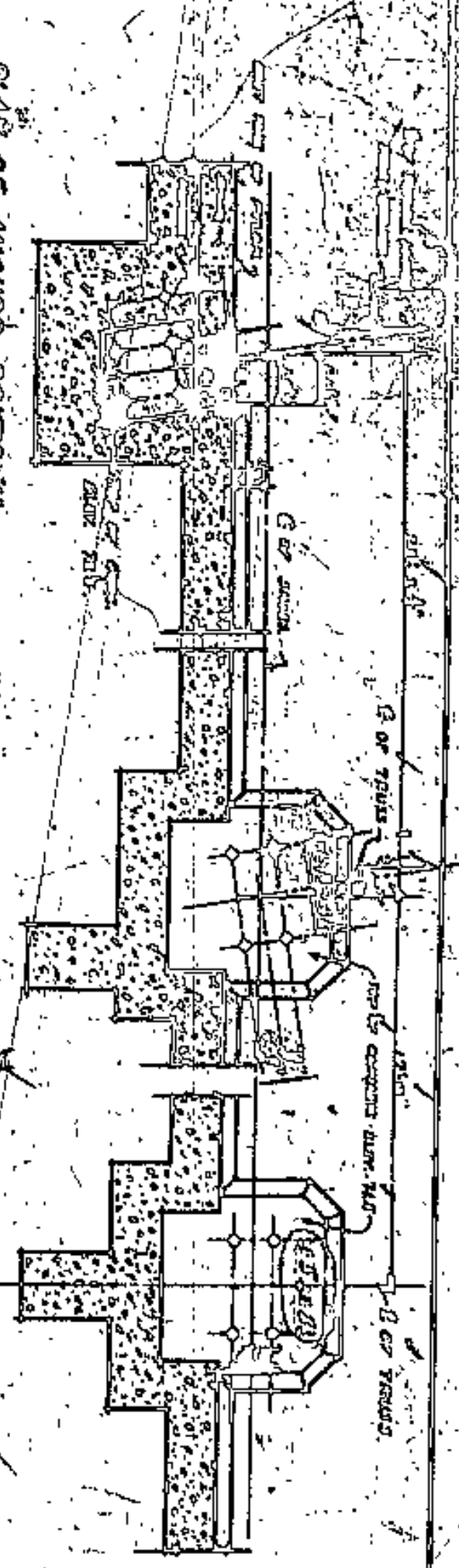
PLAN OF REINFORCING STEEL IN TOP OF FOOTING



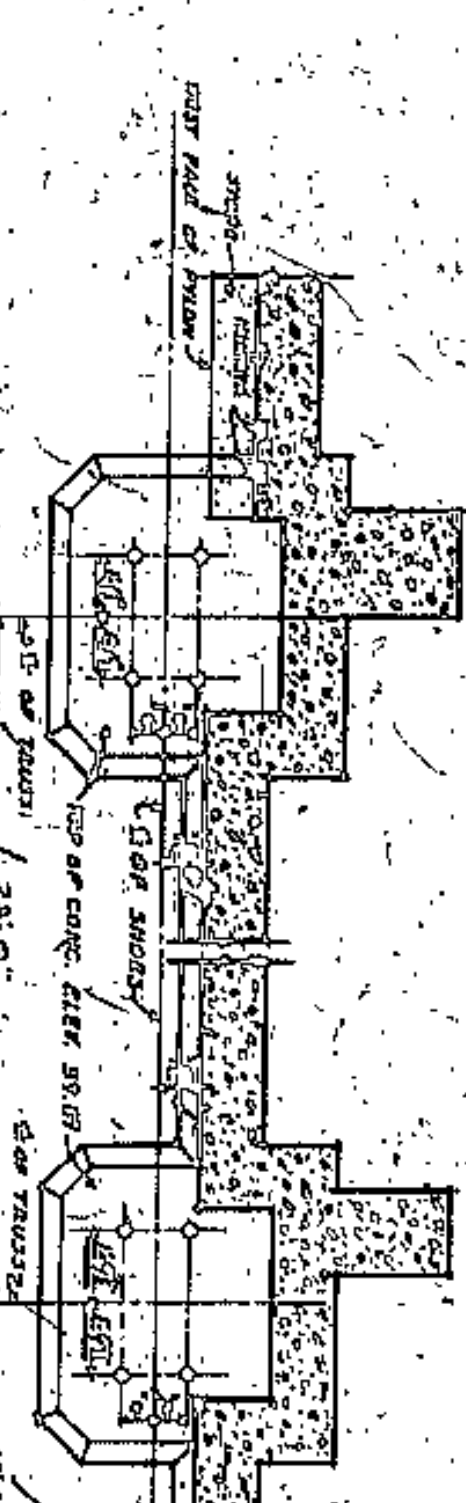
PLAN OF REINFORCING STEEL IN BOTTOM OF FOOTING



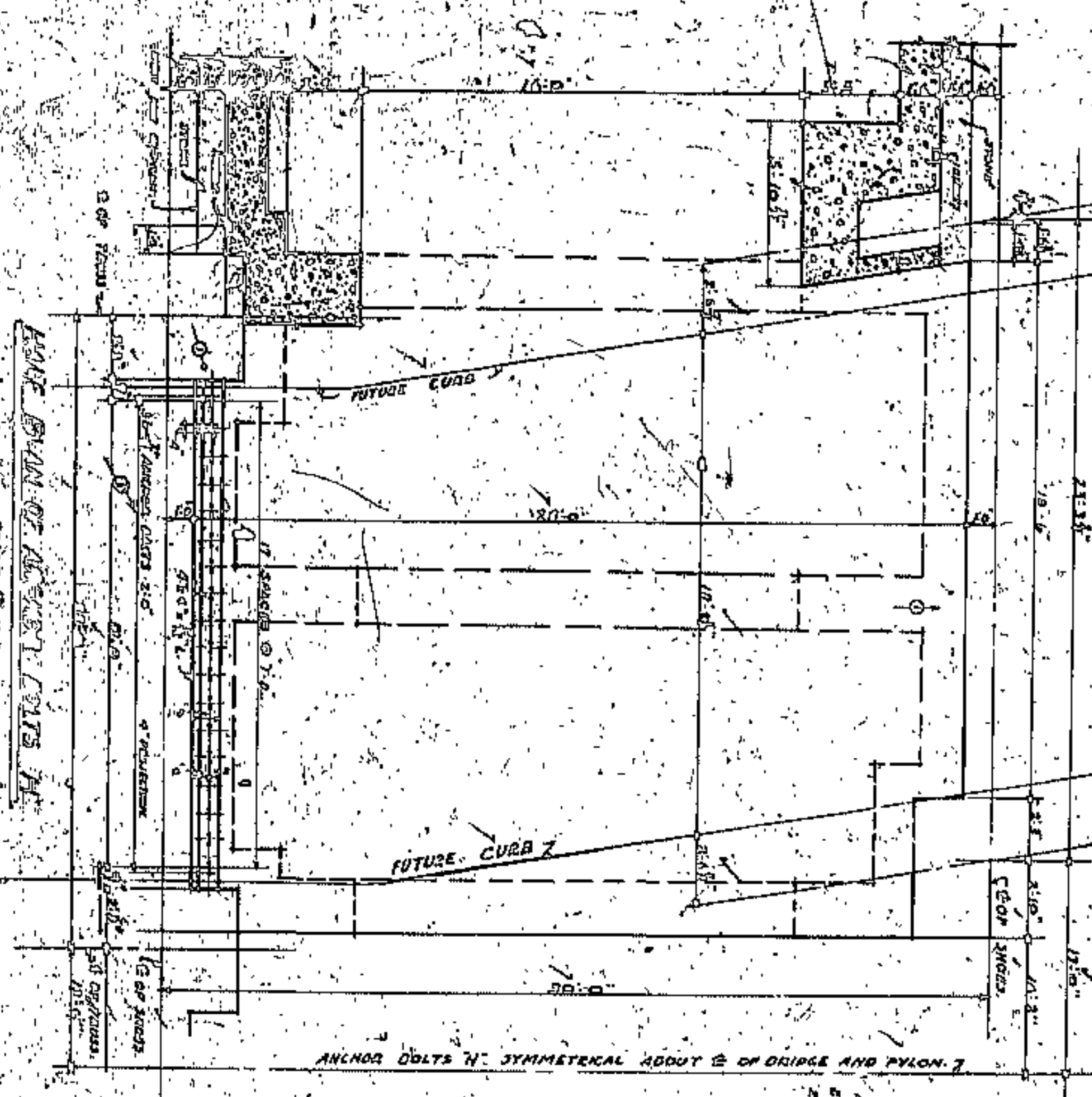
PLAN OF REINFORCING STEEL IN TOP OF PYLON



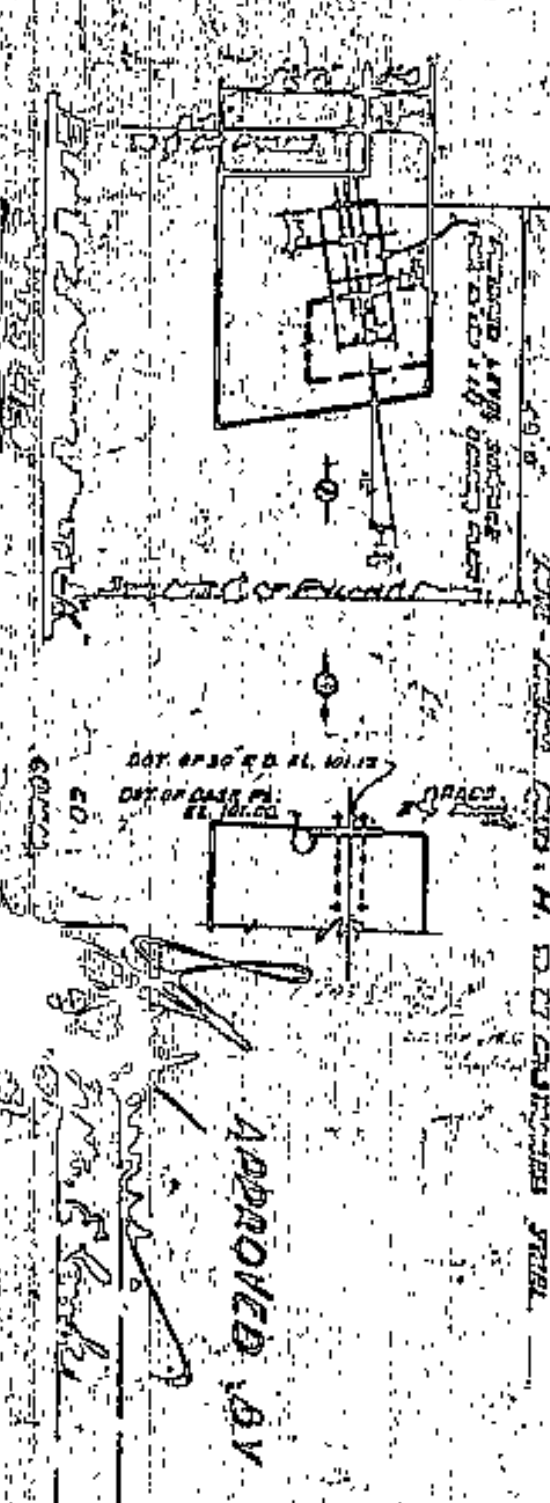
PLAN OF ANCHOR BOLTS A, B, C, D, E, F, G, H



PLAN OF ANCHOR BOLTS F, G



PLAN OF ANCHOR BOLTS H



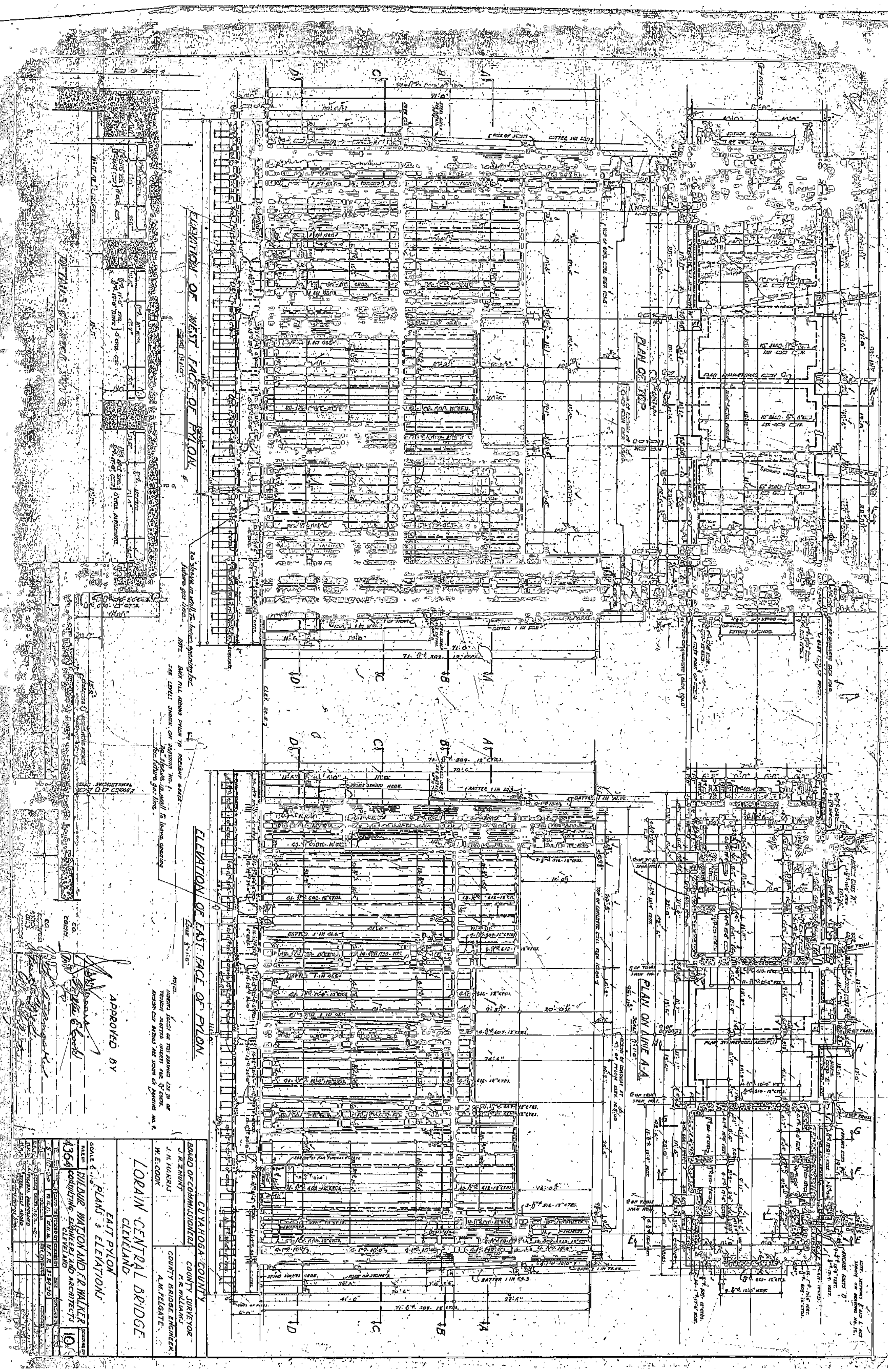
PLAN OF ANCHOR BOLTS I, J, K, L, M, N

APPROVED BY  
  
 J. H. WILSON  
 CIVIL ENGINEER

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	CLERK
J. H. WILSON	F. A. WILLIAMS
CIVIL ENGINEER	ARCHITECT
LORAIN CENTRAL BRIDGE	
CLEVELAND	
EAST PYLON	
FOOTINGS & DETAILS	
J. H. WILSON AND F. A. WILLIAMS	
ARCHITECTS AND ENGINEERS	

See 134-97  
 For Footing





APPROVED BY

*W. E. Cook*  
*W. E. Cook*

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**CUYAHOGA COUNTY**  
 BOARD OF COMMISSIONERS  
 COUNTY SURVEYOR  
 J. R. ZIMMERT  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK  
 A. M. FELGATE

**LORAIN CENTRAL BRIDGE**  
 CLEVELAND

SCALE 3/8" = 1'-0"  
**WILBUR WATSON AND F. WALKER**  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

NO.	DATE	REVISIONS
1	9-10-1913	AS SHOWN
2	10-1-1913	AS SHOWN
3	10-1-1913	AS SHOWN
4	10-1-1913	AS SHOWN
5	10-1-1913	AS SHOWN
6	10-1-1913	AS SHOWN
7	10-1-1913	AS SHOWN
8	10-1-1913	AS SHOWN
9	10-1-1913	AS SHOWN
10	10-1-1913	AS SHOWN



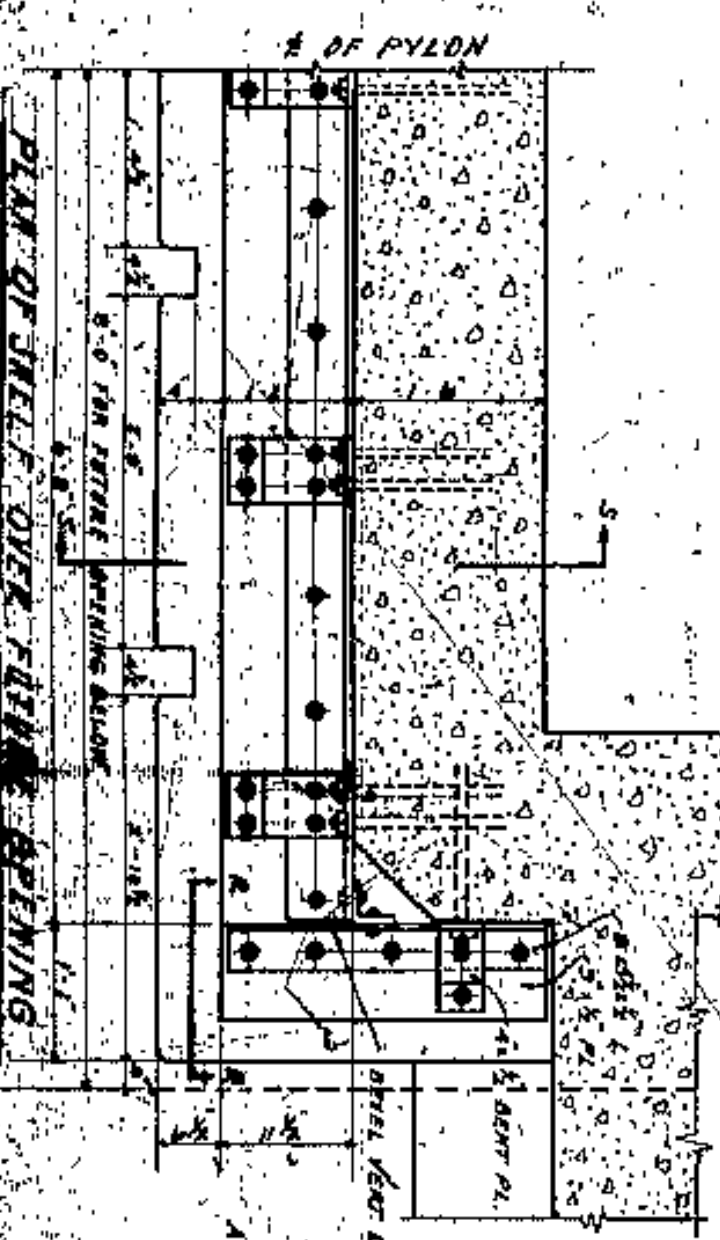
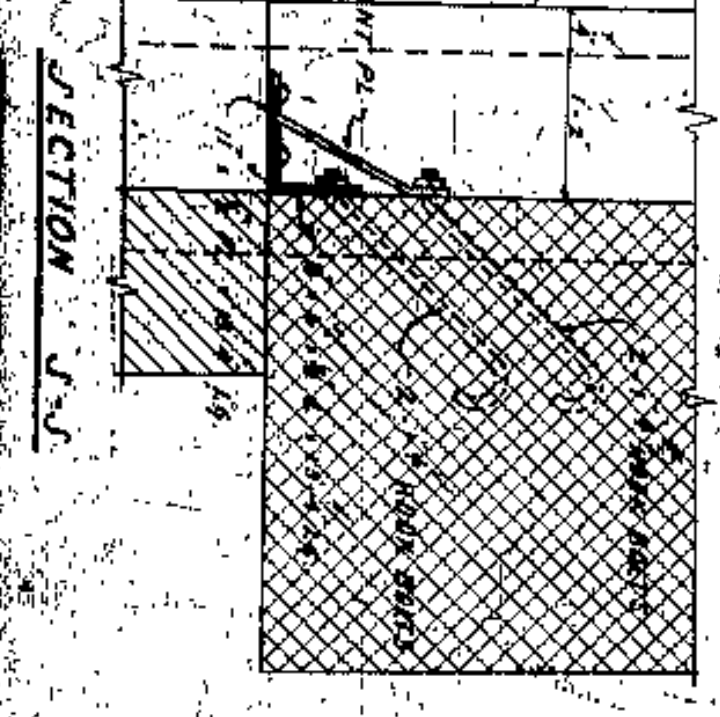
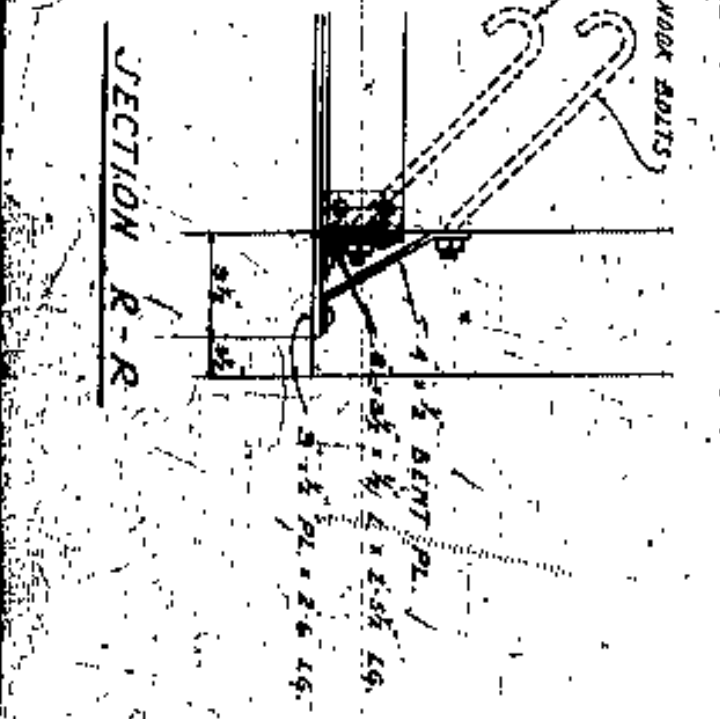
LONGITUDINAL SECTION ON B SECTION LOOKING EAST

SOUTH END ELEVATION

SECTION E-E

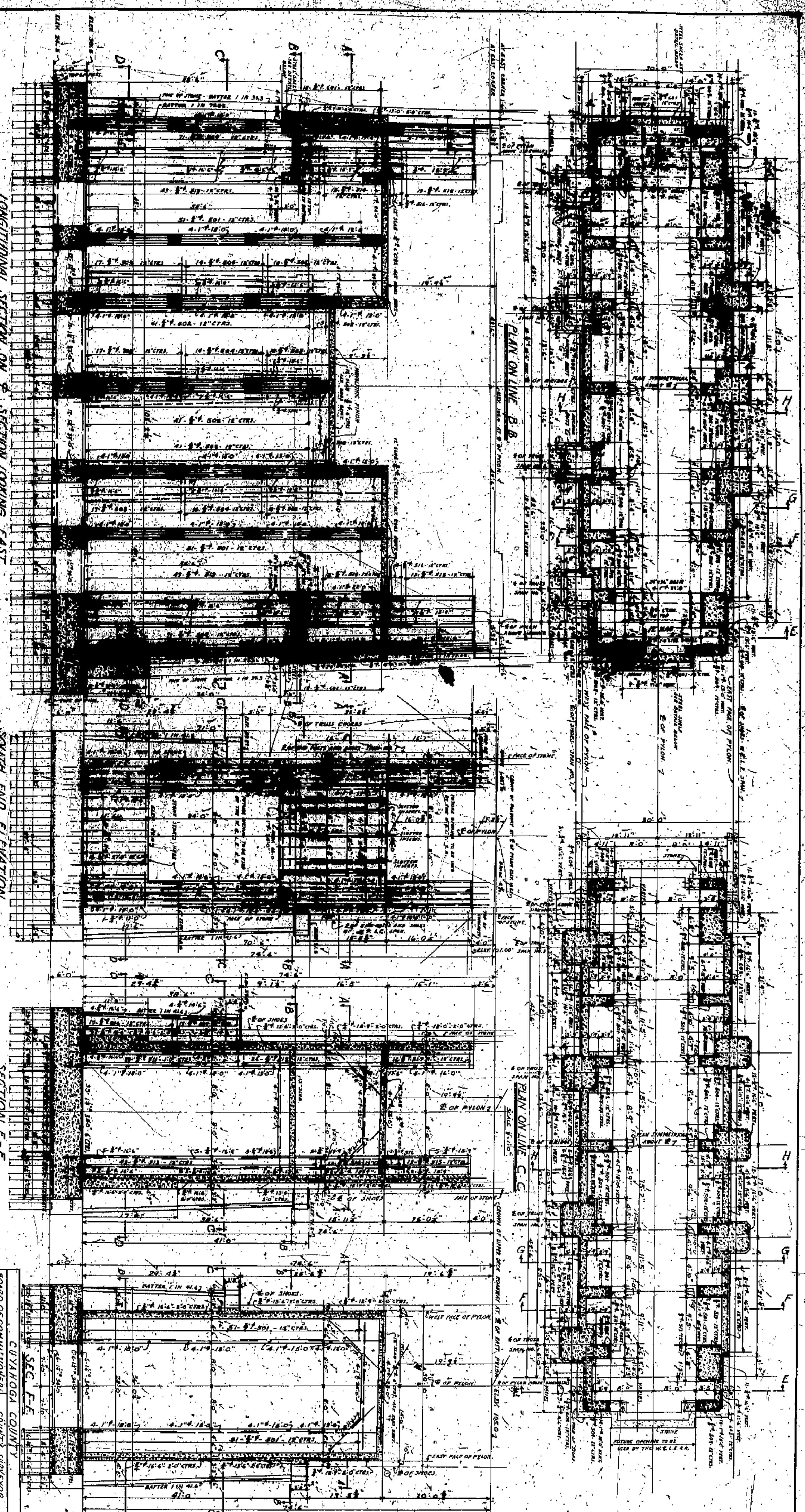
PLAN ON LINE B-B

PLAN ON LINE C-C

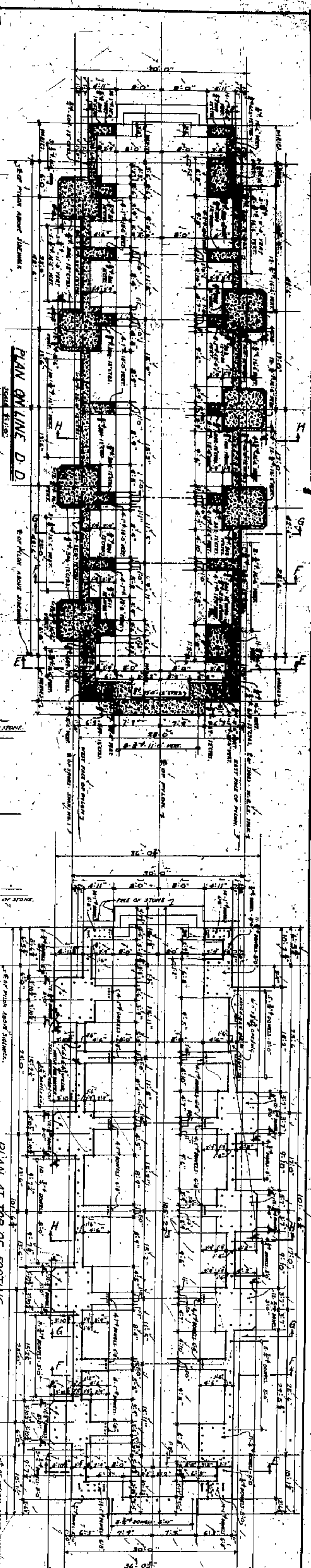


APPROVED BY  
*[Signature]*  
 ARCHITECT & ENGINEER

<p>CUYAHOGA COUNTY                  COUNTY SUPERVISOR                  J. R. WILKINS</p>	
<p>COUNTY BRIDGE ENGINEER                  A. M. FELGATE</p>	
<p>W. E. COOK</p>	
<p>LORAIN CENTRAL BRIDGE                  CLEVELAND</p>	
<p>EAST PYLON                  PLANS &amp; SECTIONS</p>	
<p>WILBUR PATZON AND FR. WALTER                  CONSULTING ENGINEERS AND ARCHITECTS                  CLEVELAND</p>	
<p>4364</p>	
<p>SCALE: 1/4" = 1'-0"</p>	

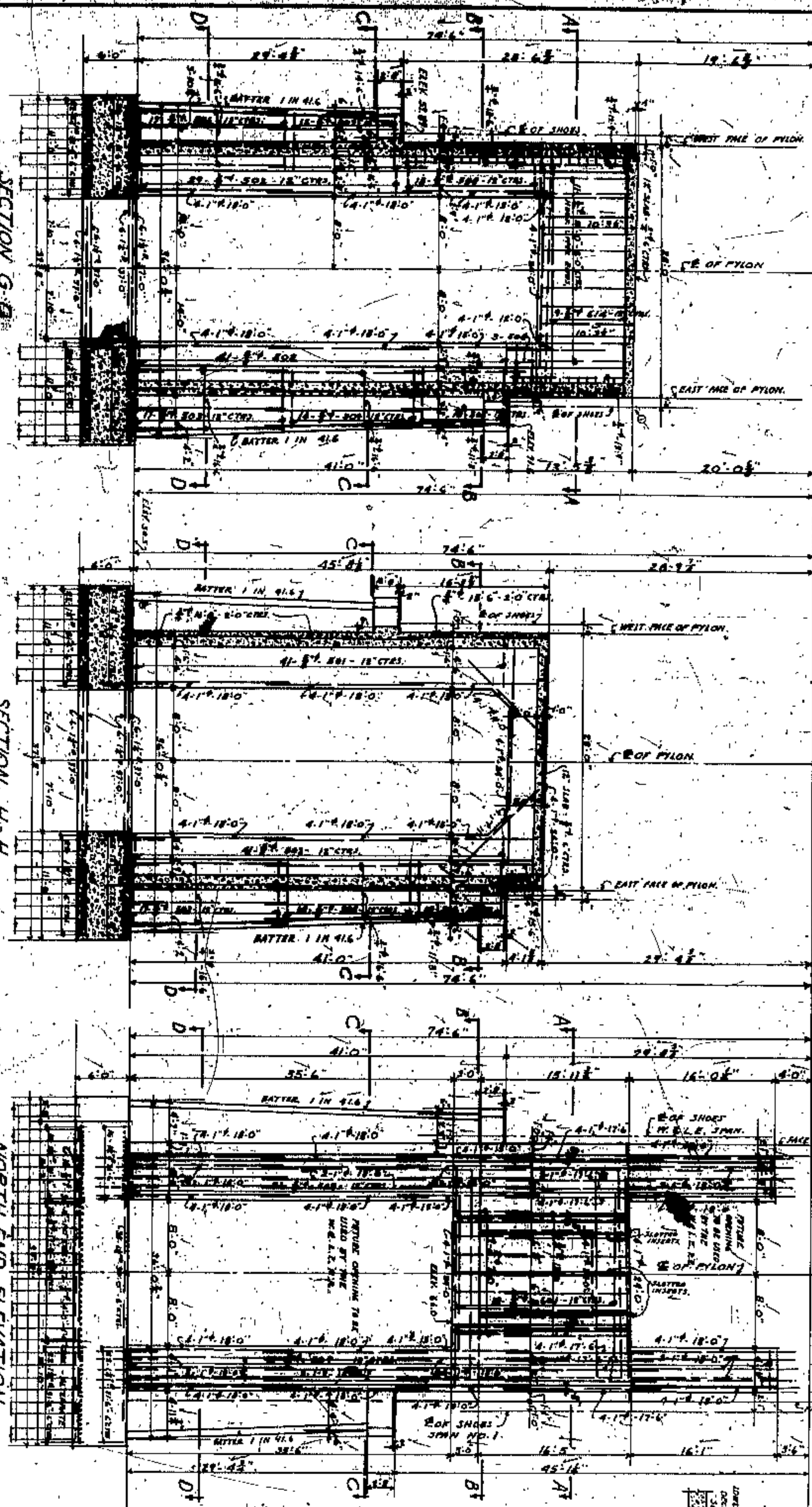






PLAN ONLINE D-D  
SCALE 3/16" = 1'-0"

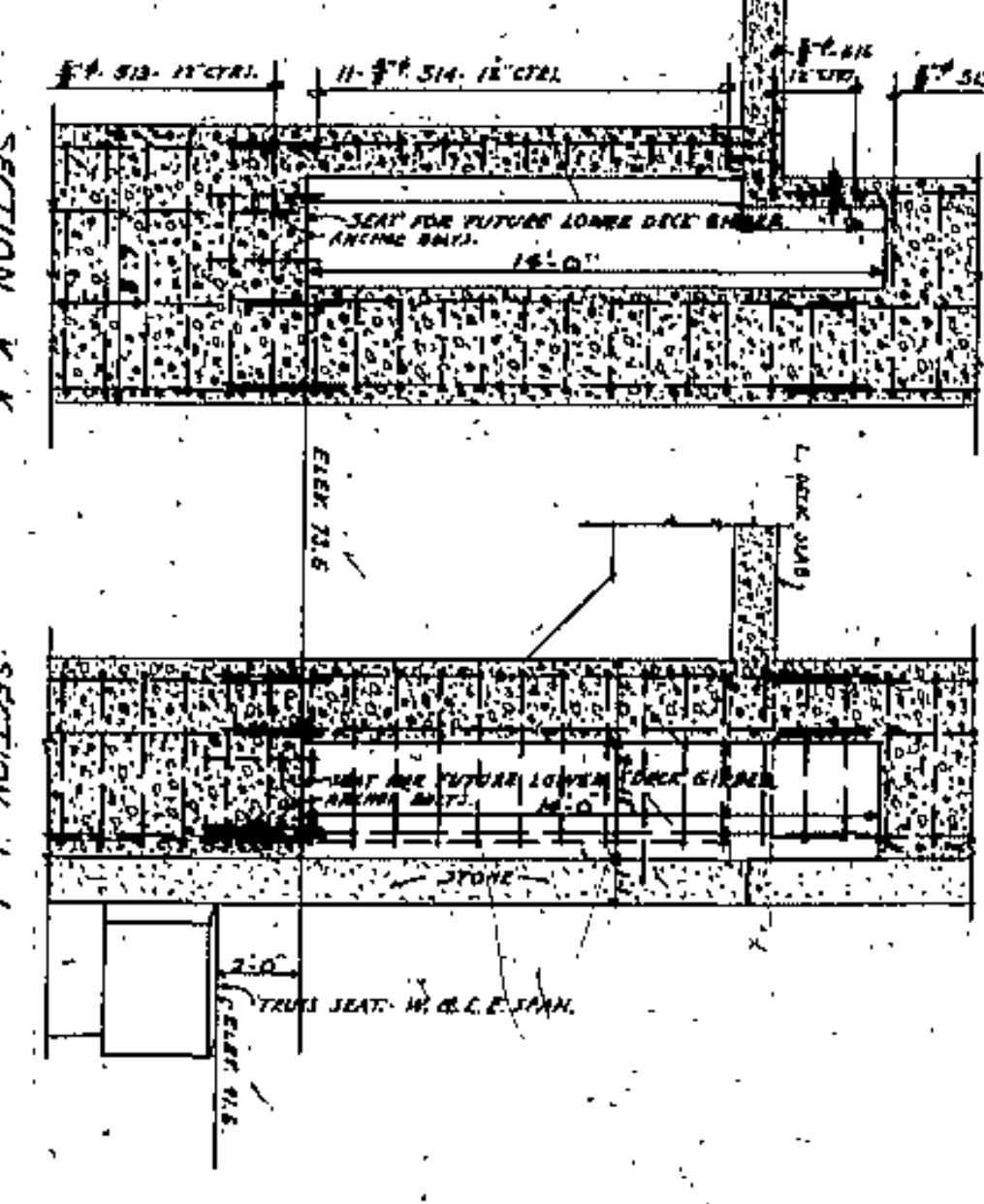
PLAN AT TOP OF FOOTING  
SCALE 3/16" = 1'-0"



SECTION G-G  
SCALE 3/16" = 1'-0"

SECTION H-H  
SCALE 3/16" = 1'-0"

NORTH END ELEVATION  
SCALE 3/16" = 1'-0"



SECTION K-K  
SCALE 3/16" = 1'-0"

SECTION L-L  
SCALE 3/16" = 1'-0"

NO. 601 - 3/4" x 24.0"

NO. 602 - 3/4" x 24.0"

NO. 603 - 3/4" x 9.0"

NO. 604 - 3/4" x 12.0"

NO. 609 - 3/4" x 12.4"

NO. 617 - 3/4" x 11.4"

NO. 606 - 3/4" x 23.6"

NO. 608 - 3/4" x 23.6"

NO. 616 - 3/4" x 17.6"

NO. 612 - 3/4" x 22.0"

NO. 614 - 3/4" x 27.0"

NO. 501 - 3/4" x 12.4"

NO. 502 - 3/4" x 8.0"

NO. 511 - 3/4" x 8.6"

NO. 512 - 3/4" x 8.9"

NO. 508 - 3/4" x 9.3"

NO. 503 - 3/4" x 24.3"

NO. 504 - 3/4" x 24.6"

NO. 505 - 3/4" x 21.0"

NO. 506 - 3/4" x 25.0"

NO. 507 - 3/4" x 23.6"

NO. 509 - 3/4" x 11.0"

NO. 513 - 3/4" x 21.3"

NO. 514 - 3/4" x 16.3"

NO. 515 - 3/4" x 18.6"

NO. 516 - 3/4" x 18.3"

NO. 517 - 3/4" x 9.9"

APPROVED BY

*[Handwritten signatures]*

OHIOHOGA COUNTY

BOARD OF COMMISSIONERS

COUNTY SUPERVISOR

J. H. HARRIS

COUNTY SADDLE ENGINEER

W. E. COOK

LORAIN CENTRAL BRIDGE

CLEVELAND

EAST PYLON

PLANS, SECTIONS AND DETAILS

WILBUR MATSON AND FRANK WALKER

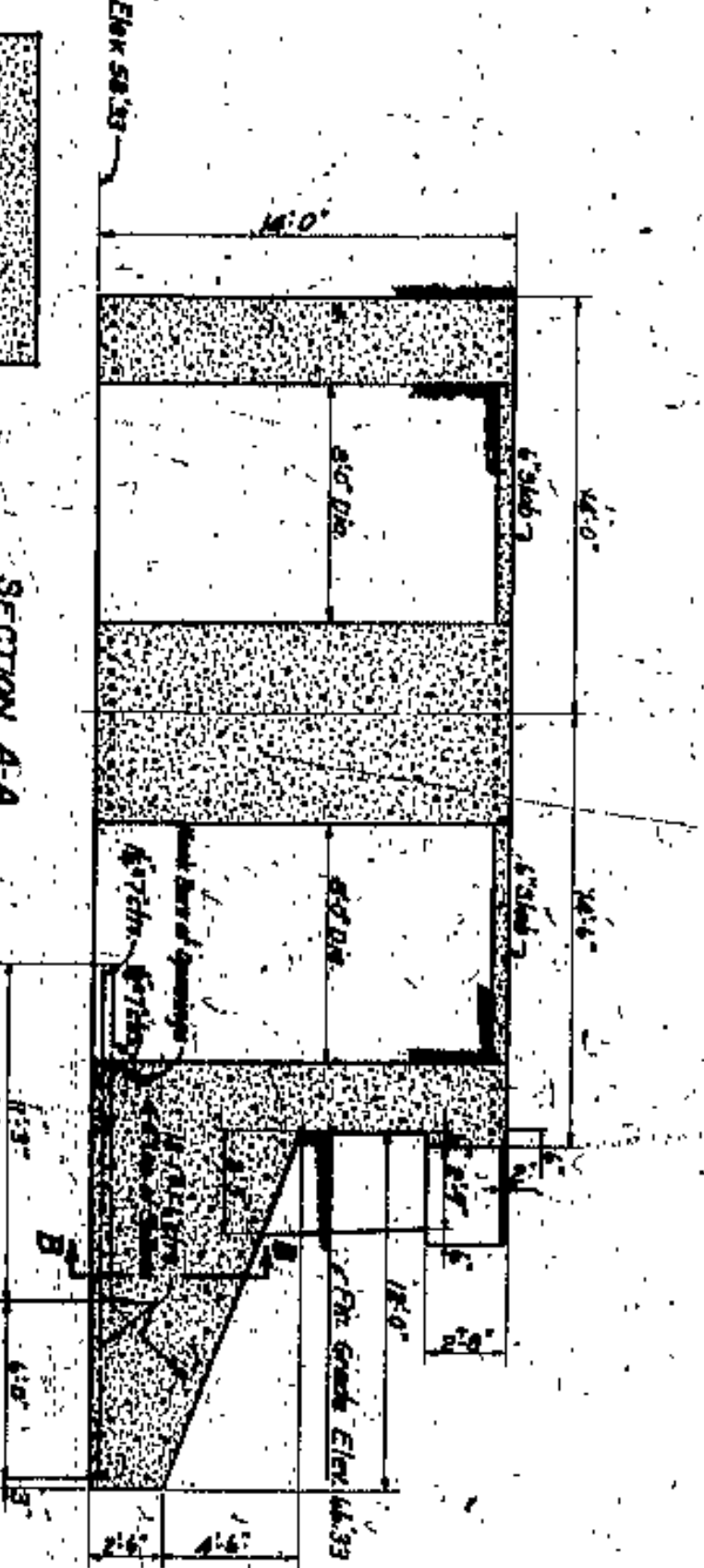
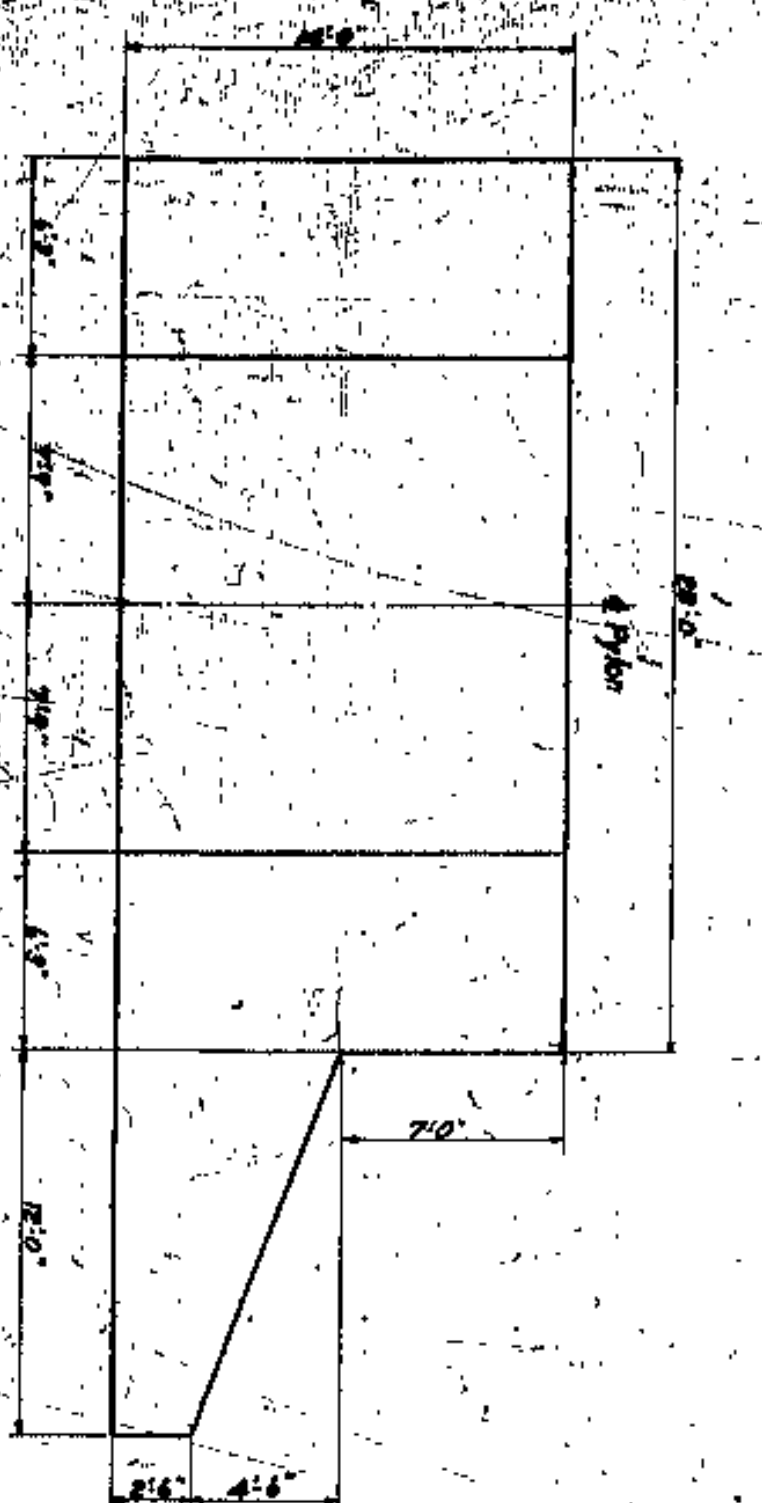
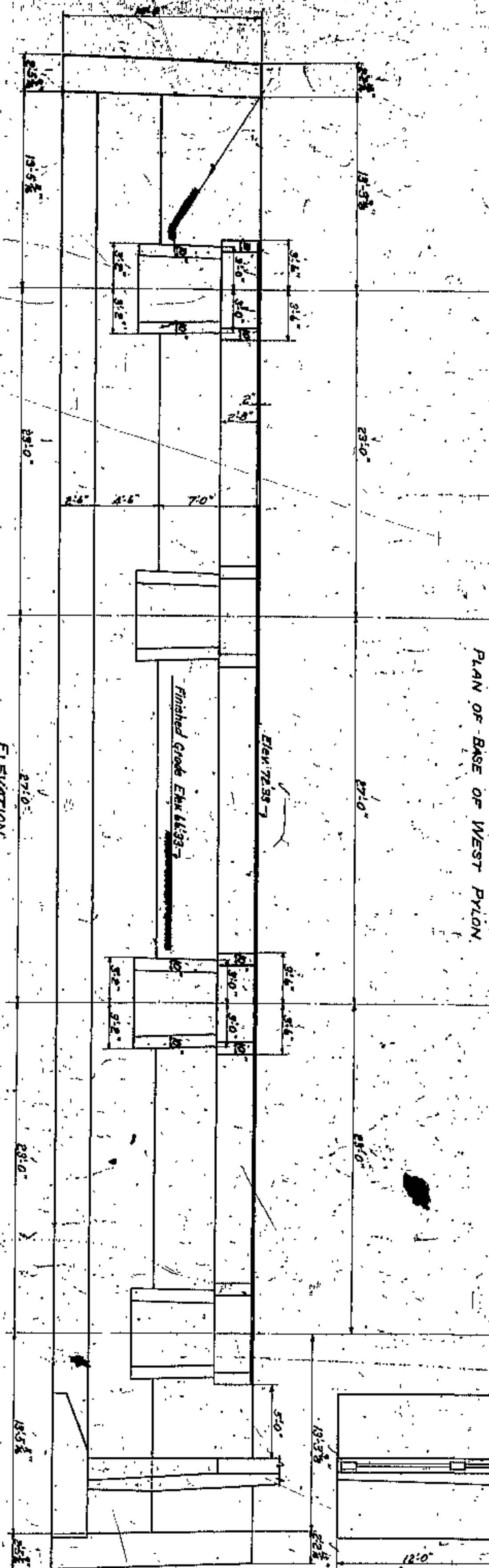
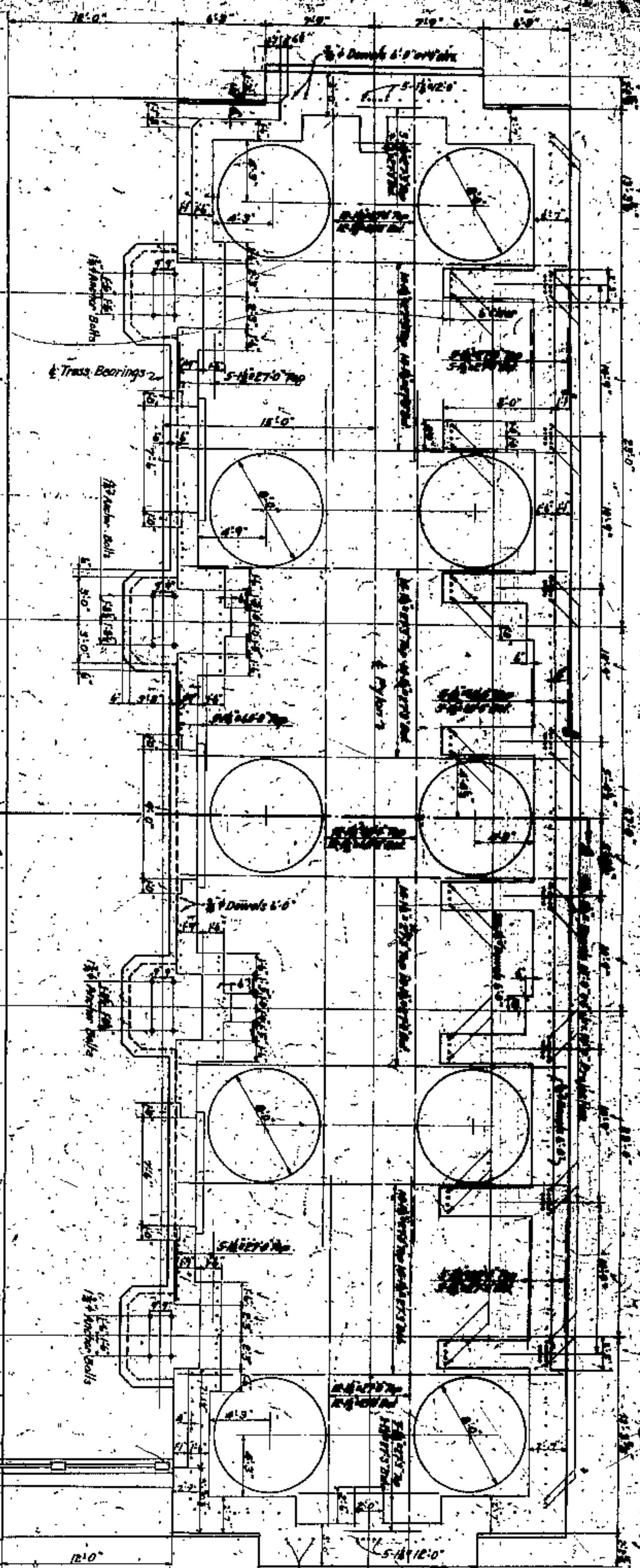
CONSULTING ENGINEERS AND ARCHITECTS

CLEVELAND

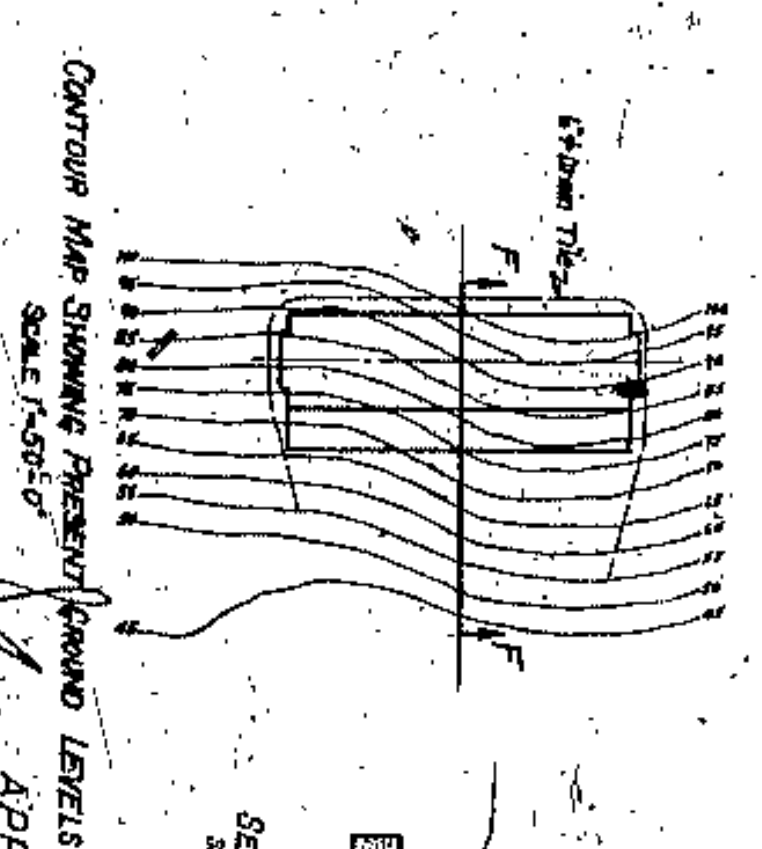
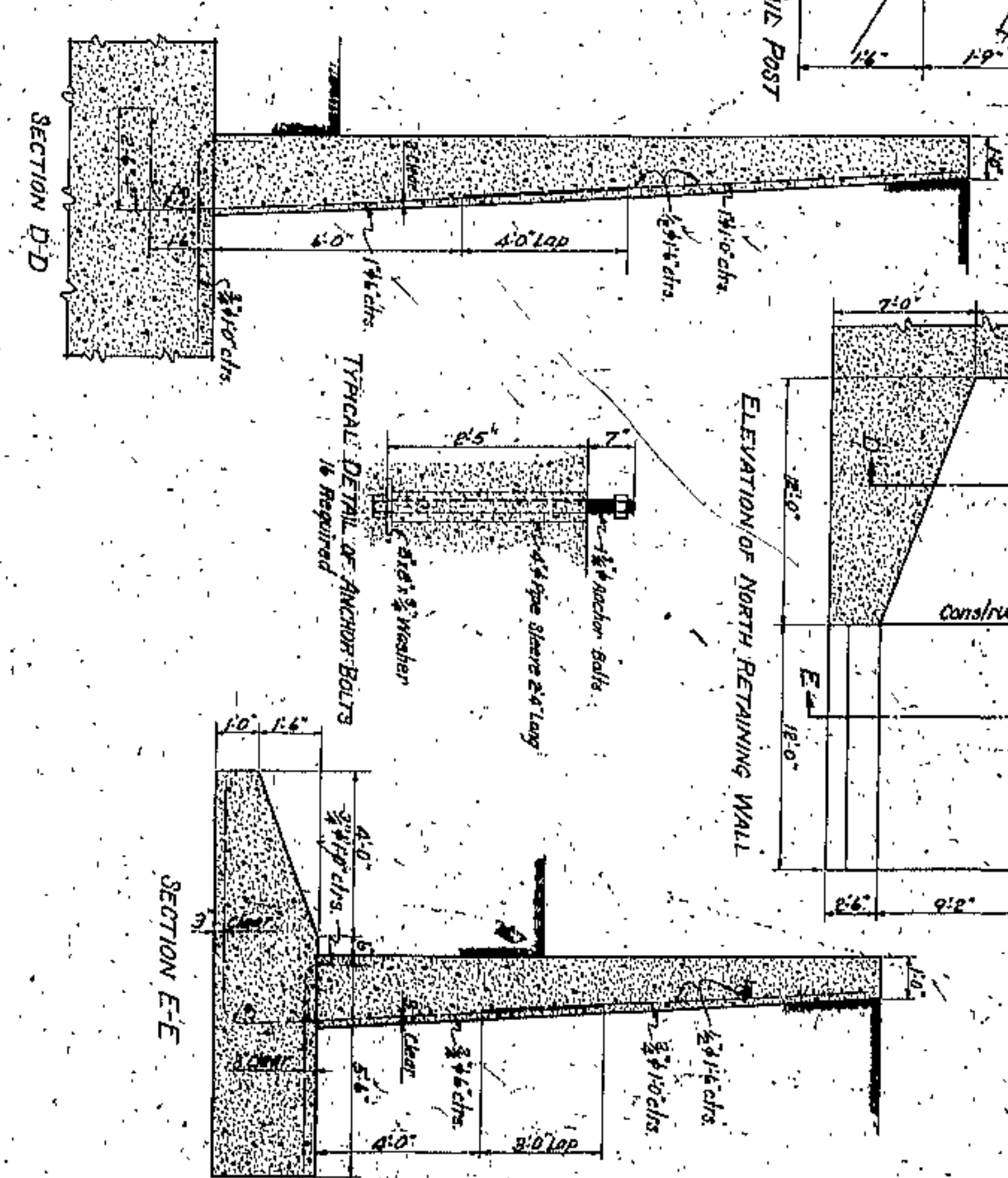
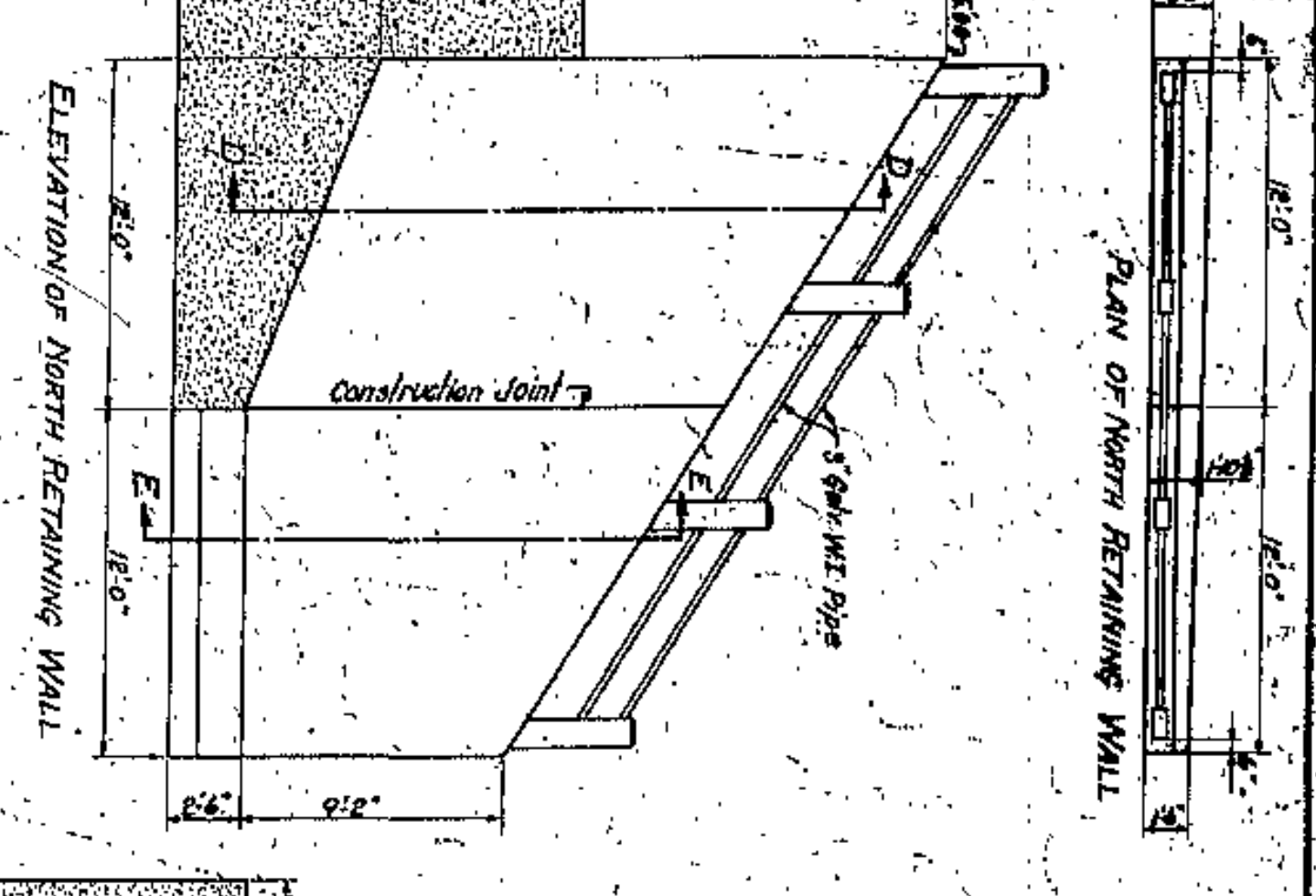
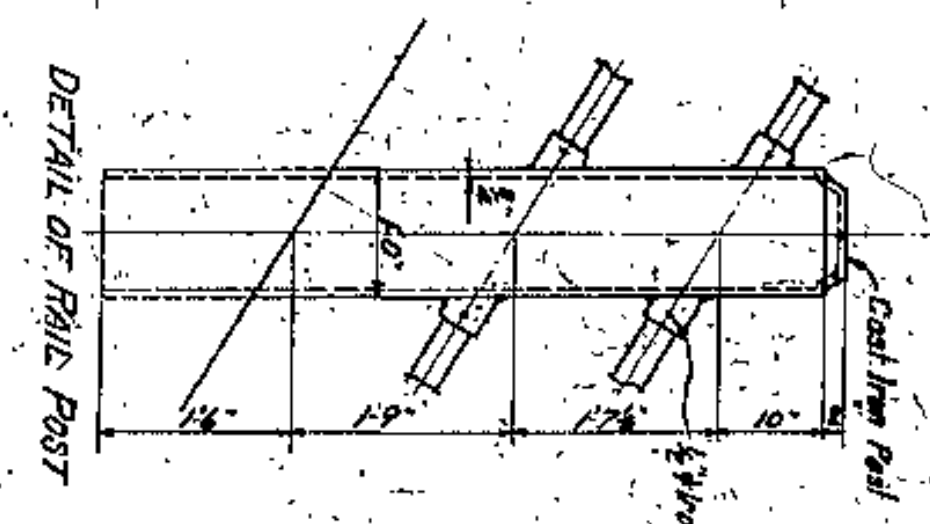
4364

12





Note: All elevations to be checked against the existing ground level. If found necessary by the Engineer.

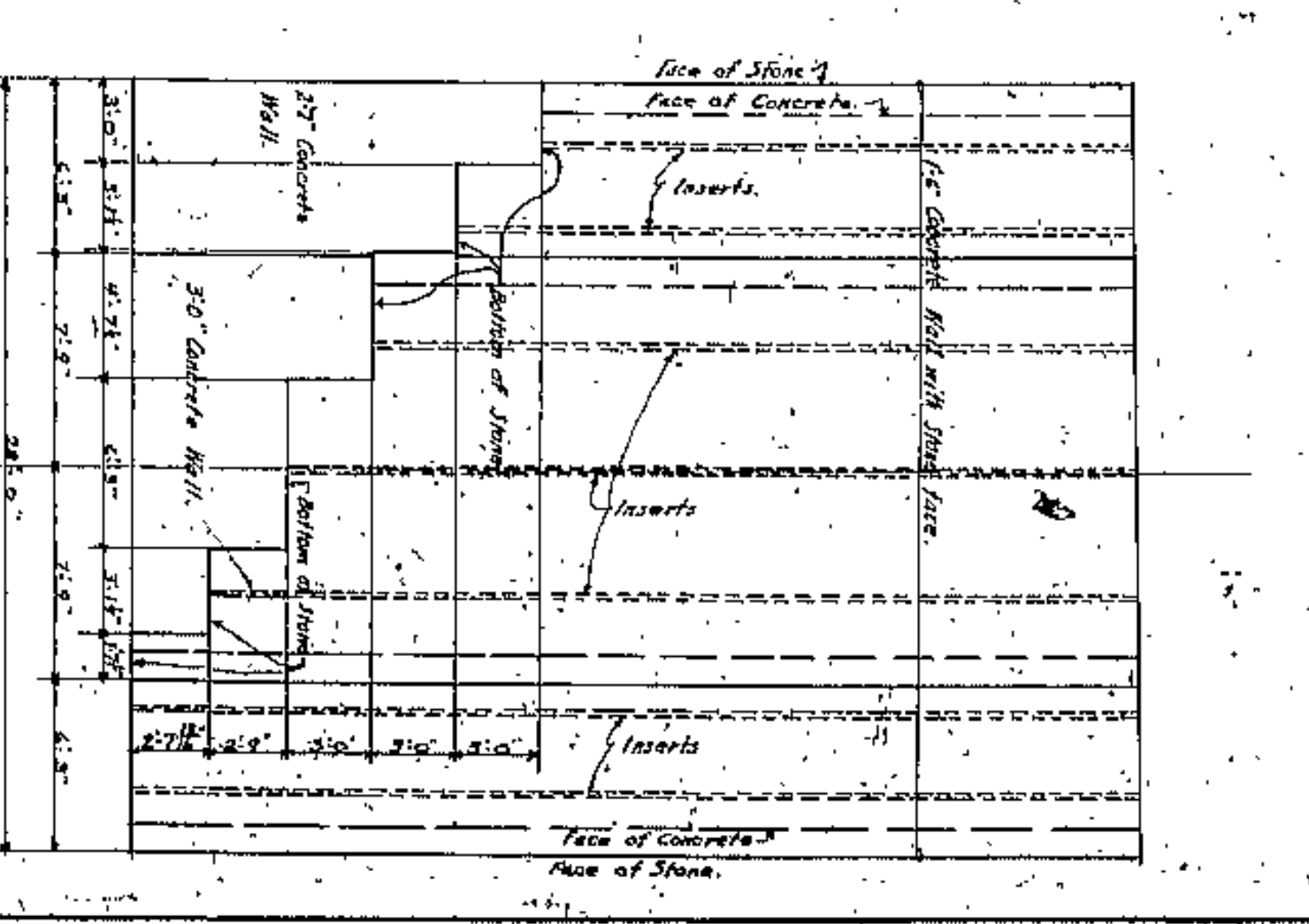
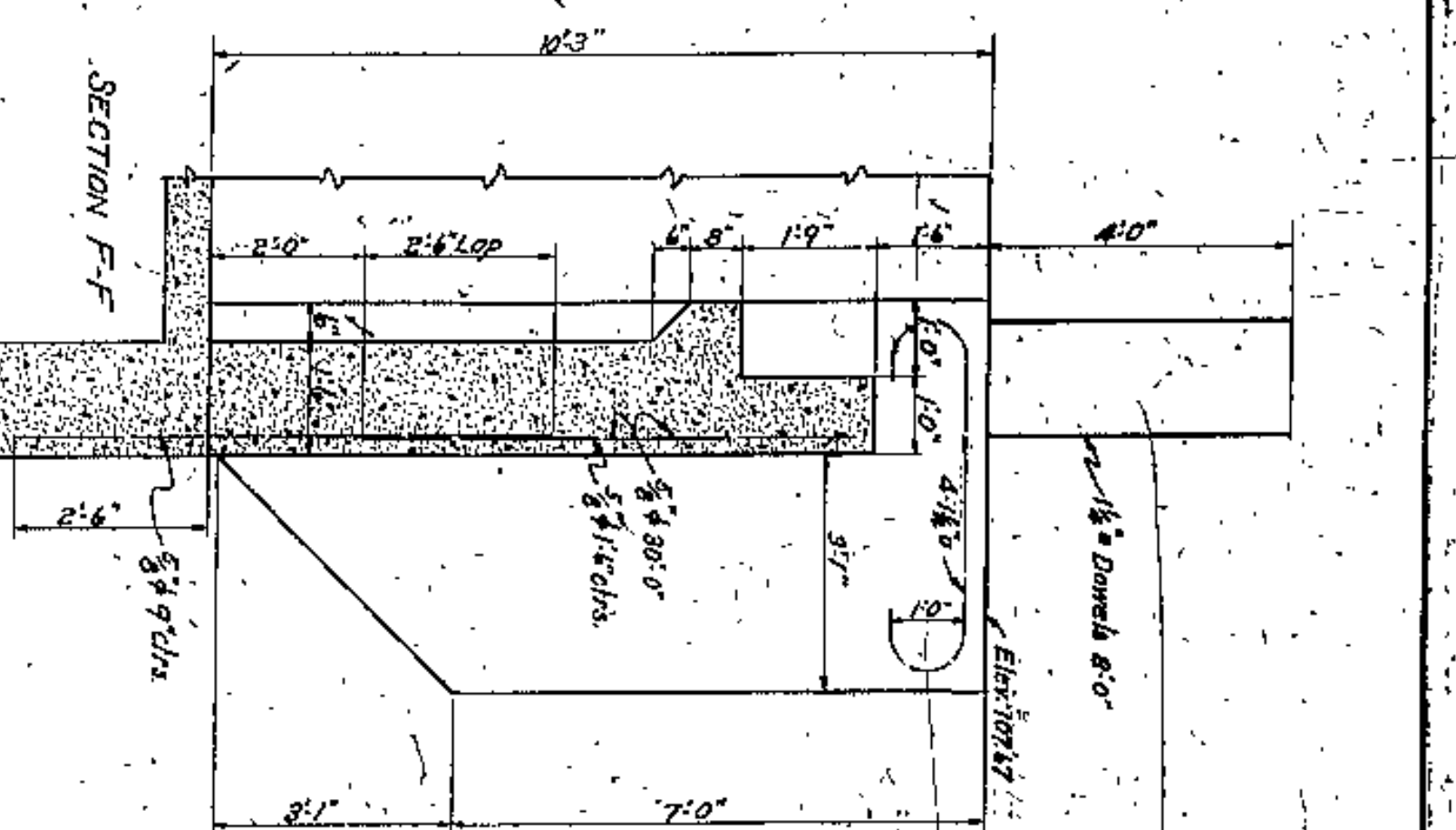
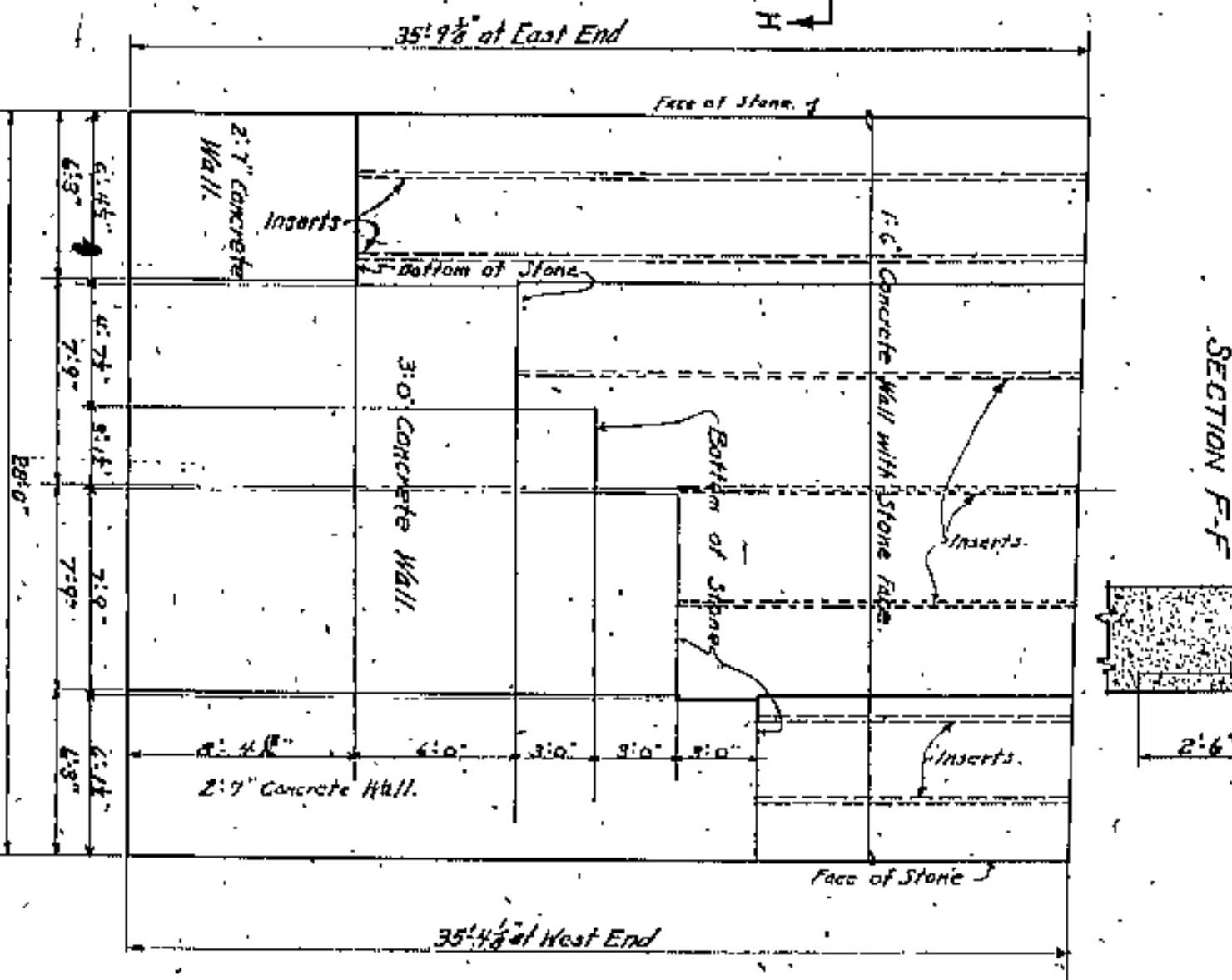
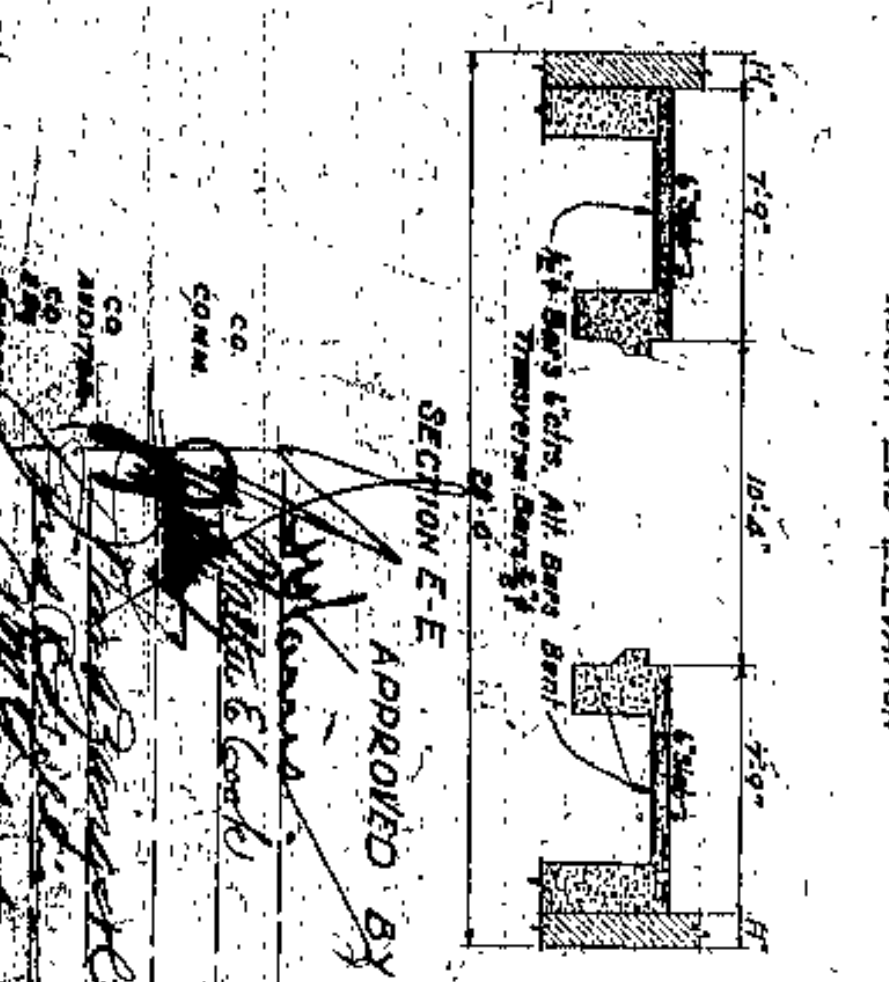
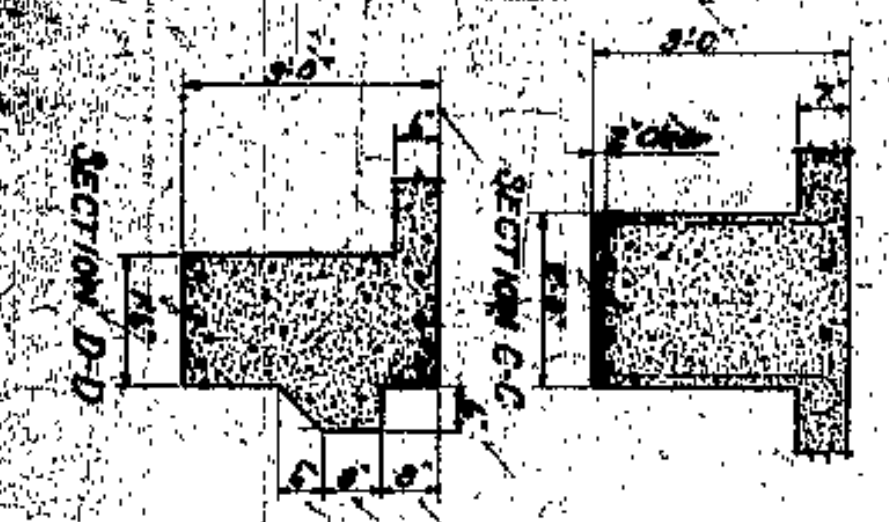
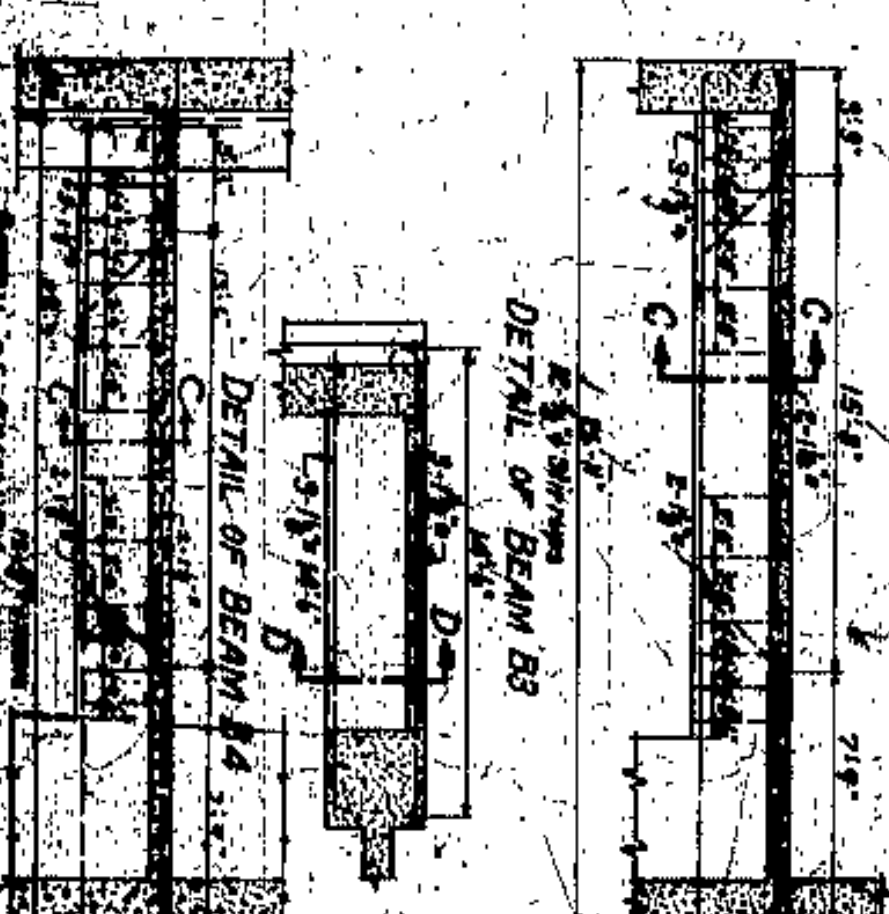
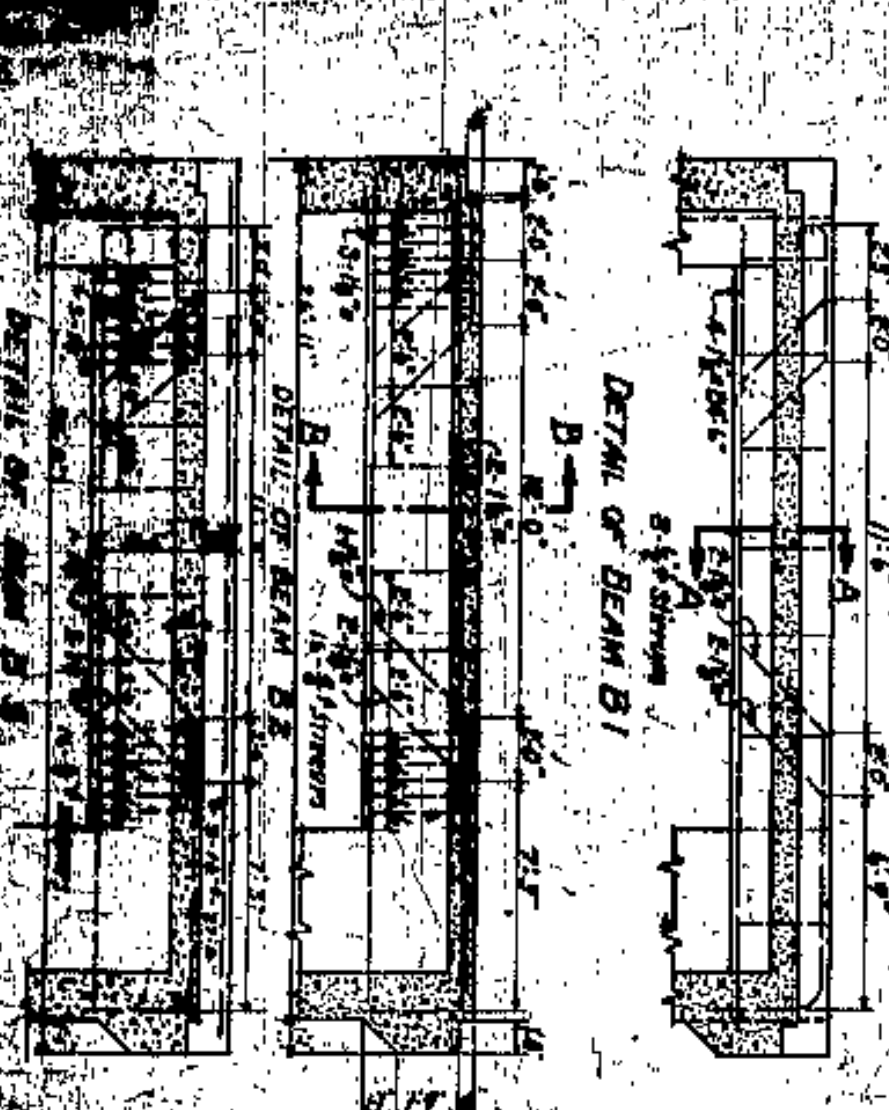
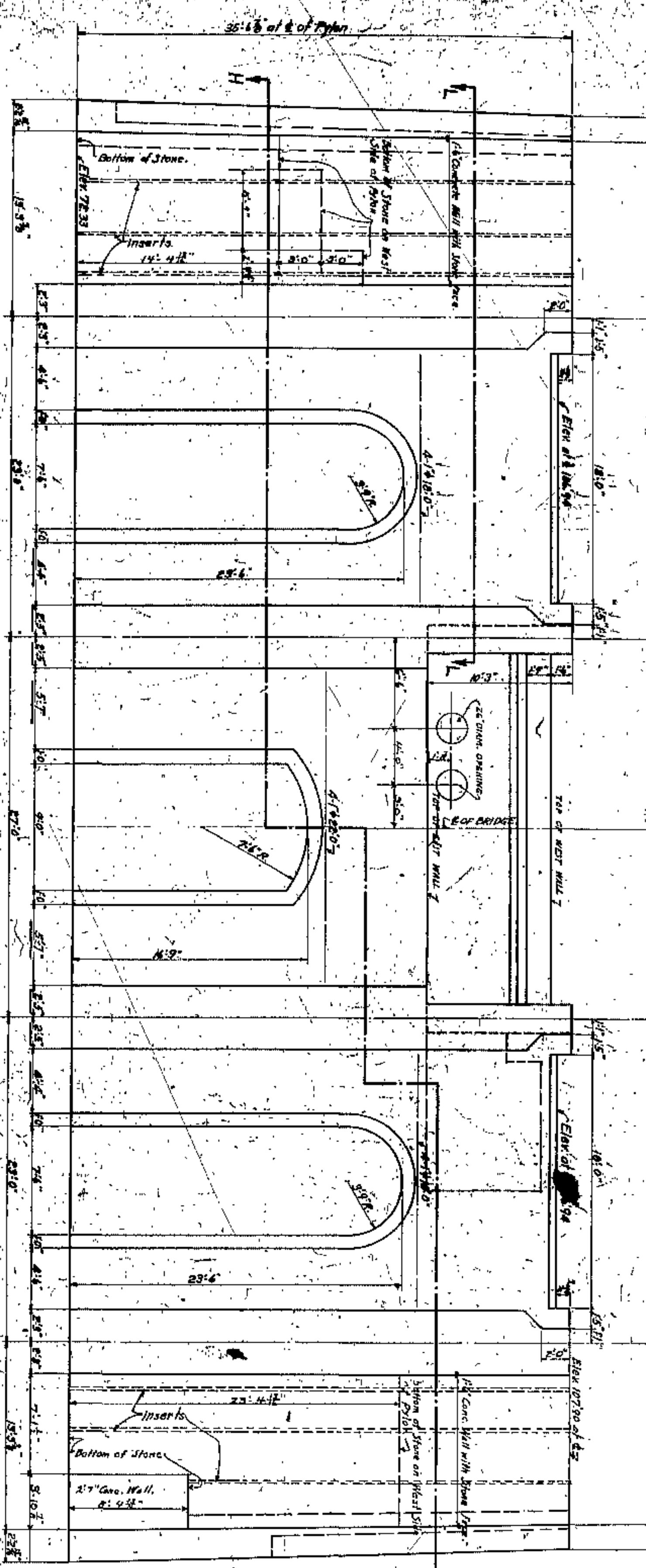
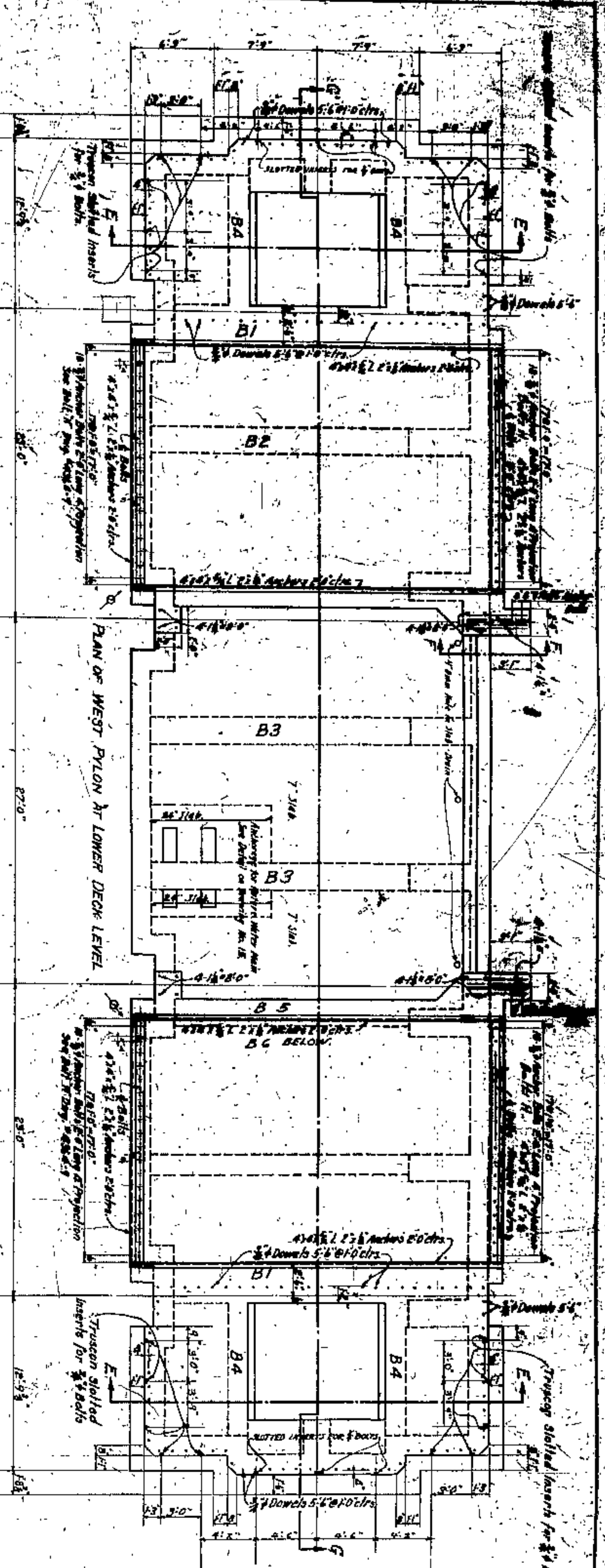


APPROVED BY

*[Handwritten signature]*  
 J. H. HARRIS  
 COUNTY ARCHITECT ENGINEER  
 CLEVELAND

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY JURISDICTION
J. R. ZIMMONT	F. R. WILLIAMS
J. H. HARRIS	COUNTY ARCHITECT ENGINEER
M. E. COOK	A. M. FLEGGATE
<b>LORAIN CENTRAL BRIDGE</b>	
CLEVELAND	
WEST Pylon	
FOUNDATION PLAN & DETAILS	
FILE NO. 4364	WILBUR, NATION AND FARMALKER
DATE 12/1/1910	CONSULTING ENGINEER AND ARCHITECTS
SCALE 1\"/>	





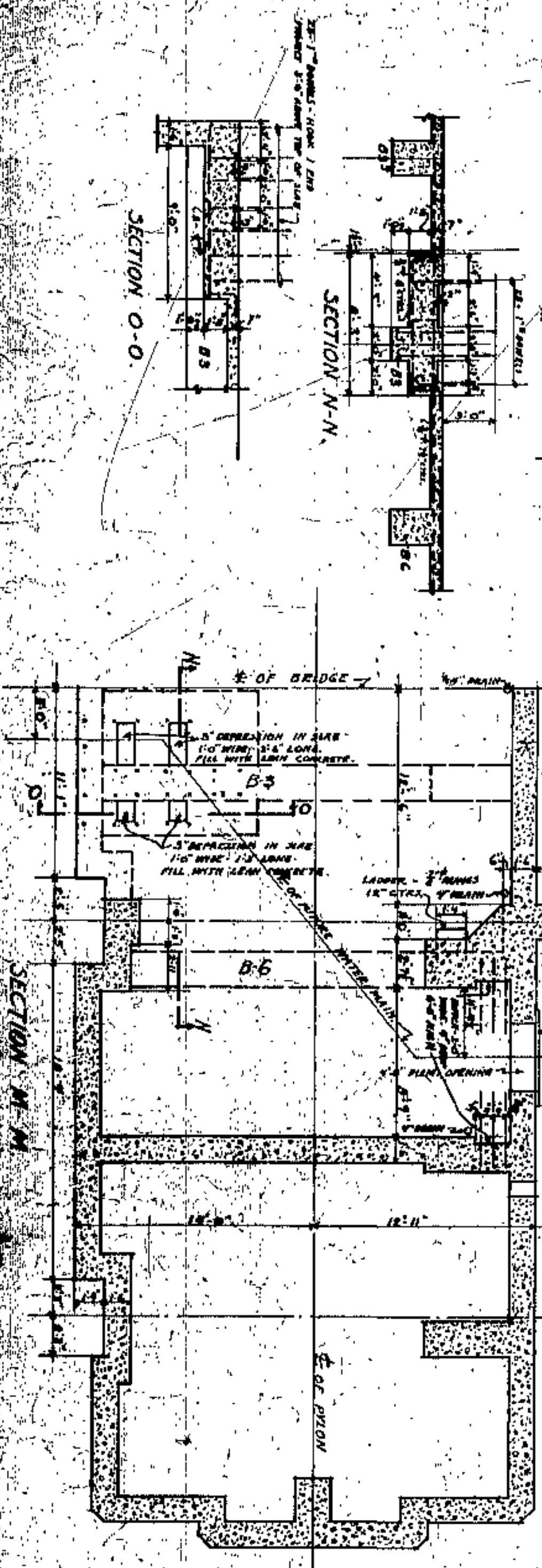
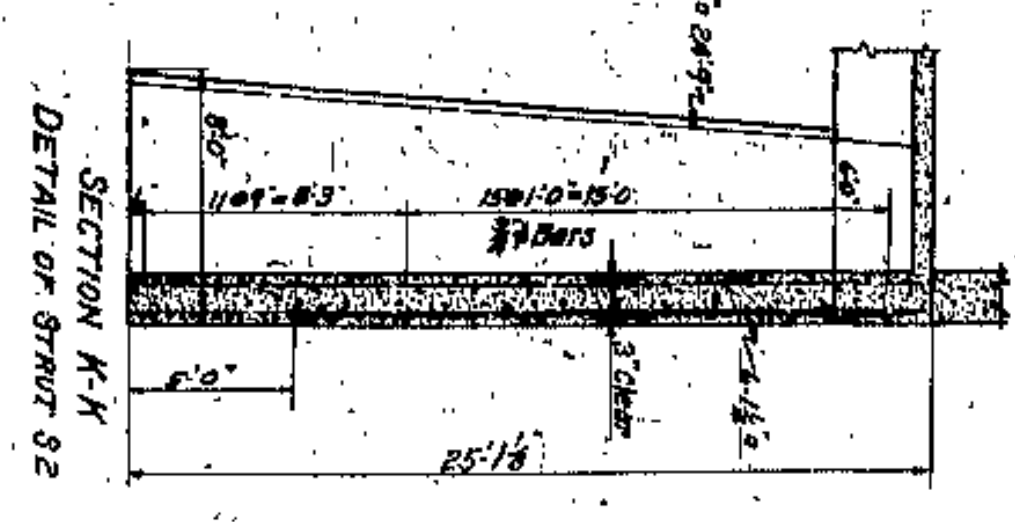
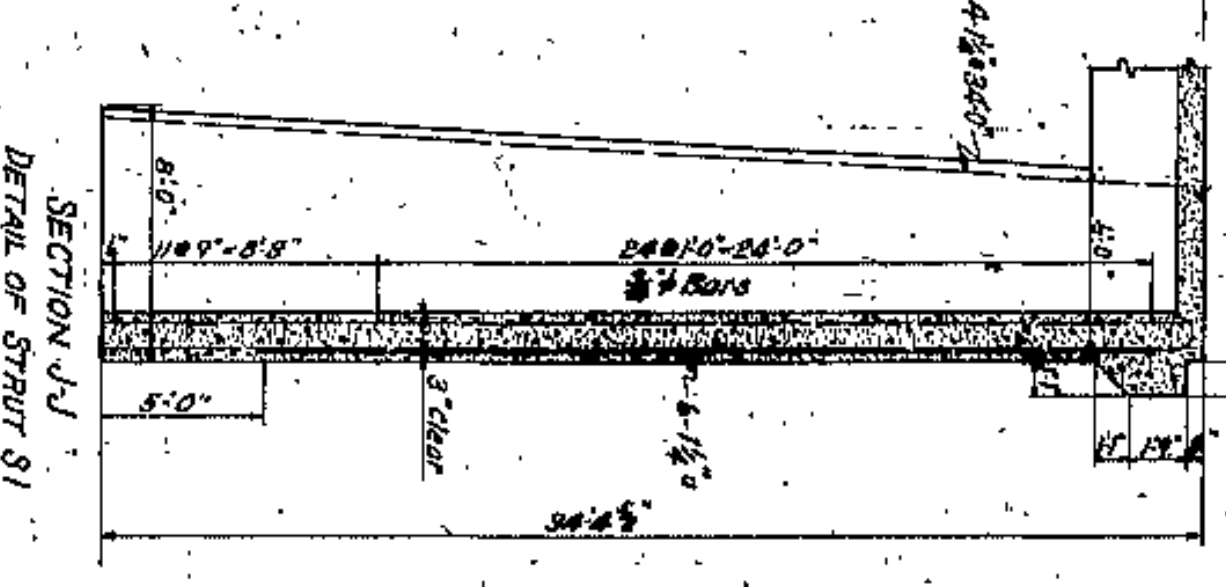
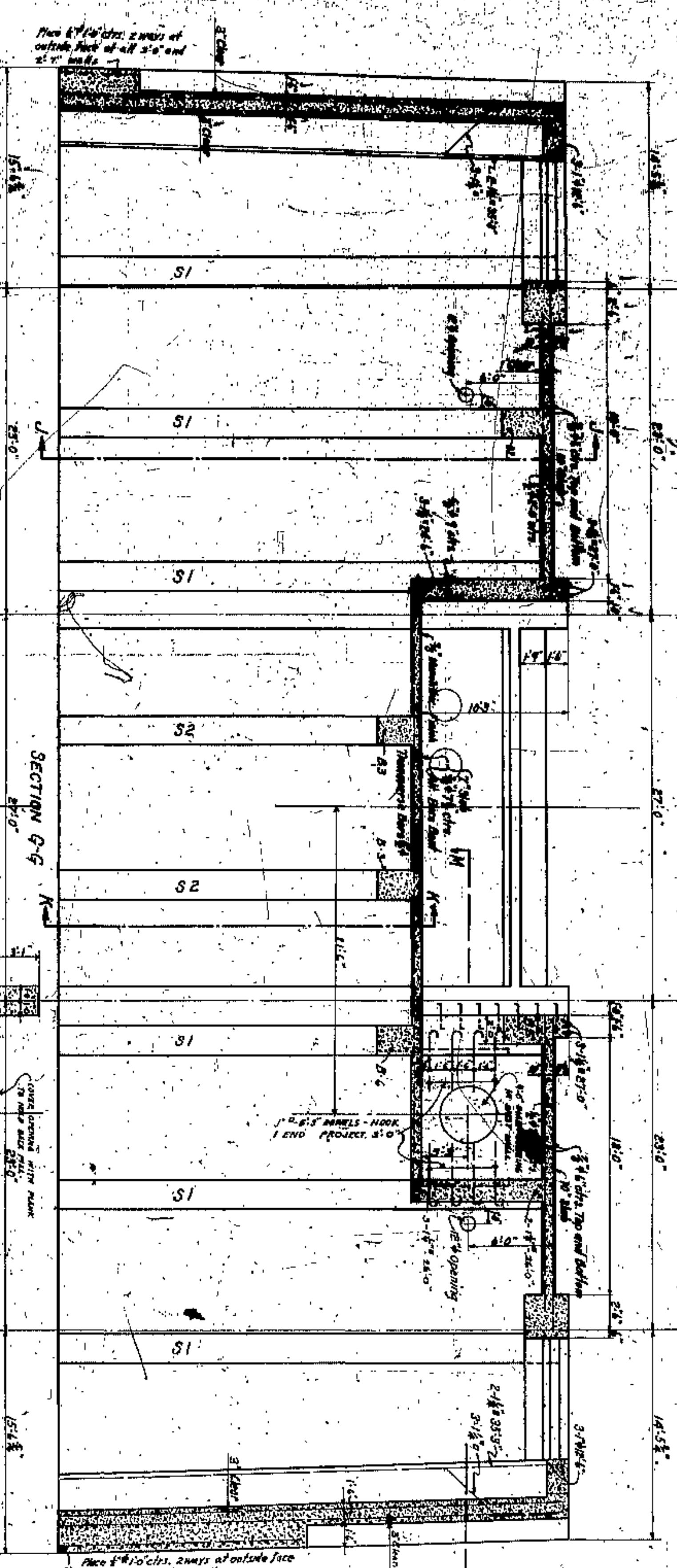
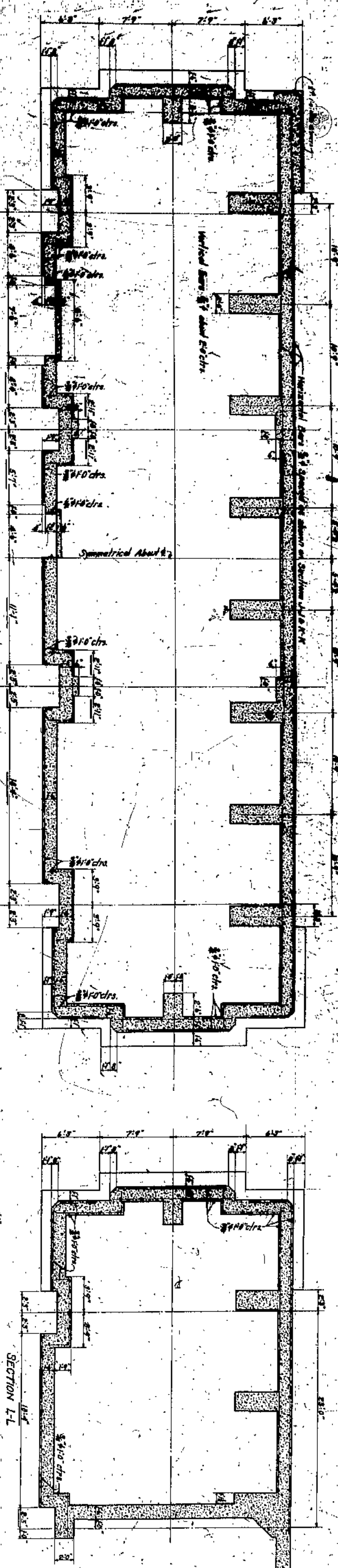
APPROVED BY  
 [Signature]  
 CIVIL ENGINEER

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 J. R. ZIMONT  
 COUNTY SURVEYOR  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK

WEST PYLON  
 PLAN & ELEVATION  
 LORAIN CENTRAL BRIDGE  
 CLEVELAND

WILBUR NATION AND F. WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 4364  
 14





APPROVED BY  
 [Signature]  
 J. H. HARRIS  
 COUNTY BRIDGE ENGINEER

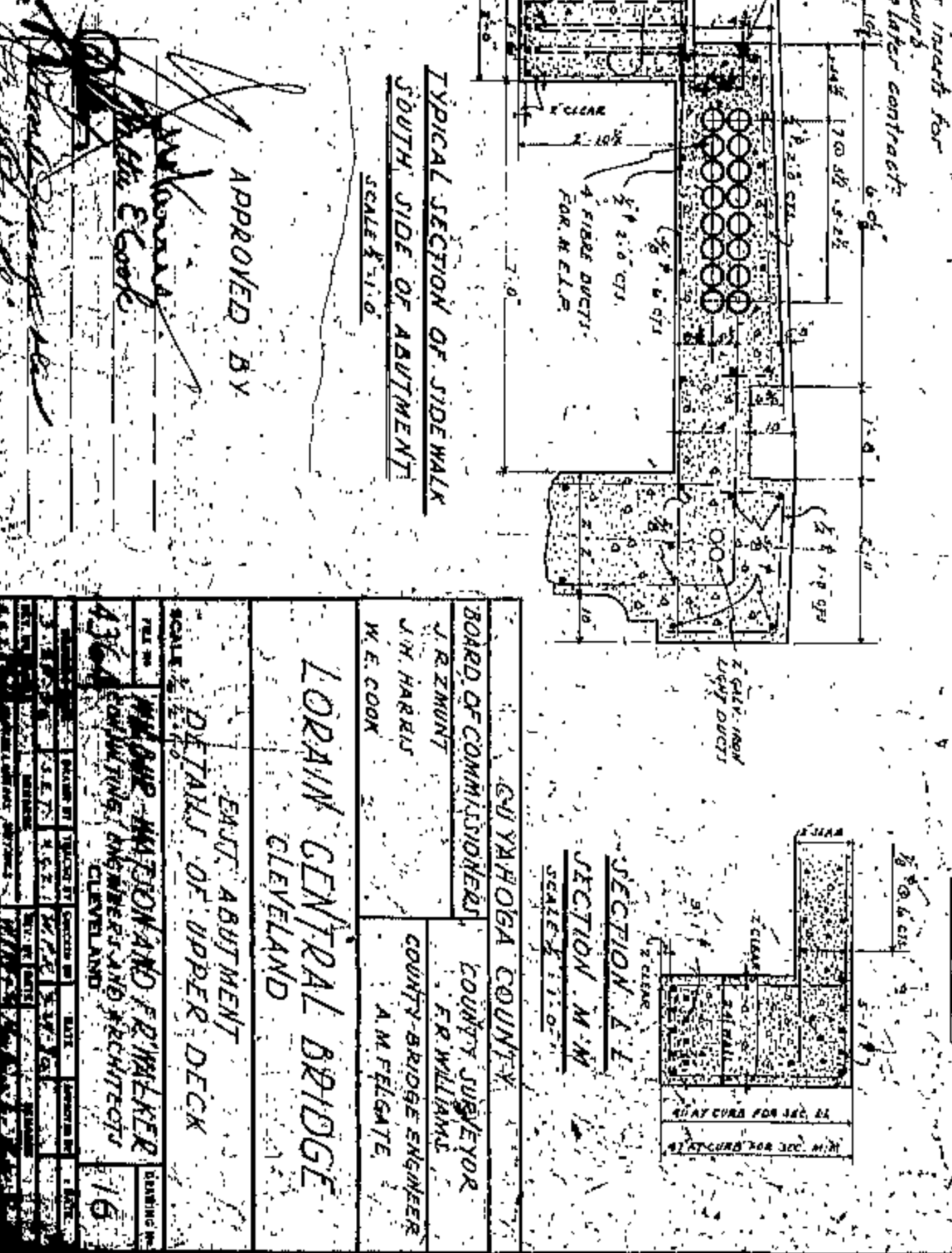
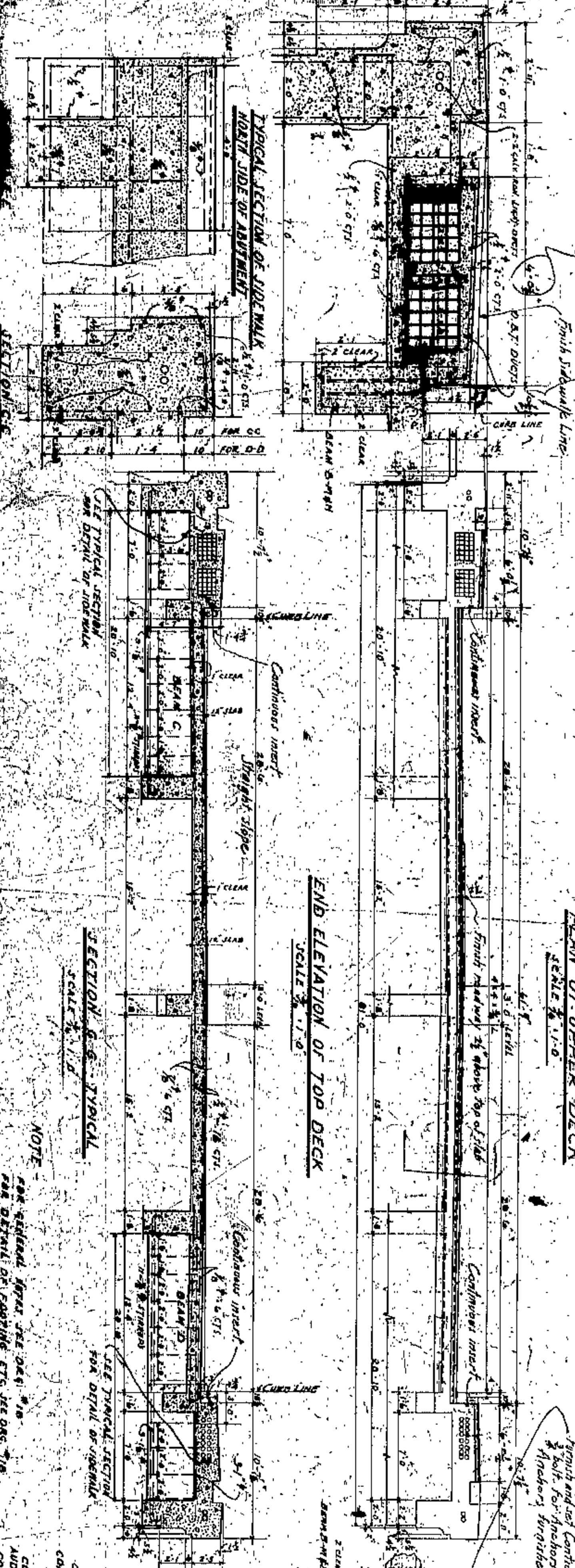
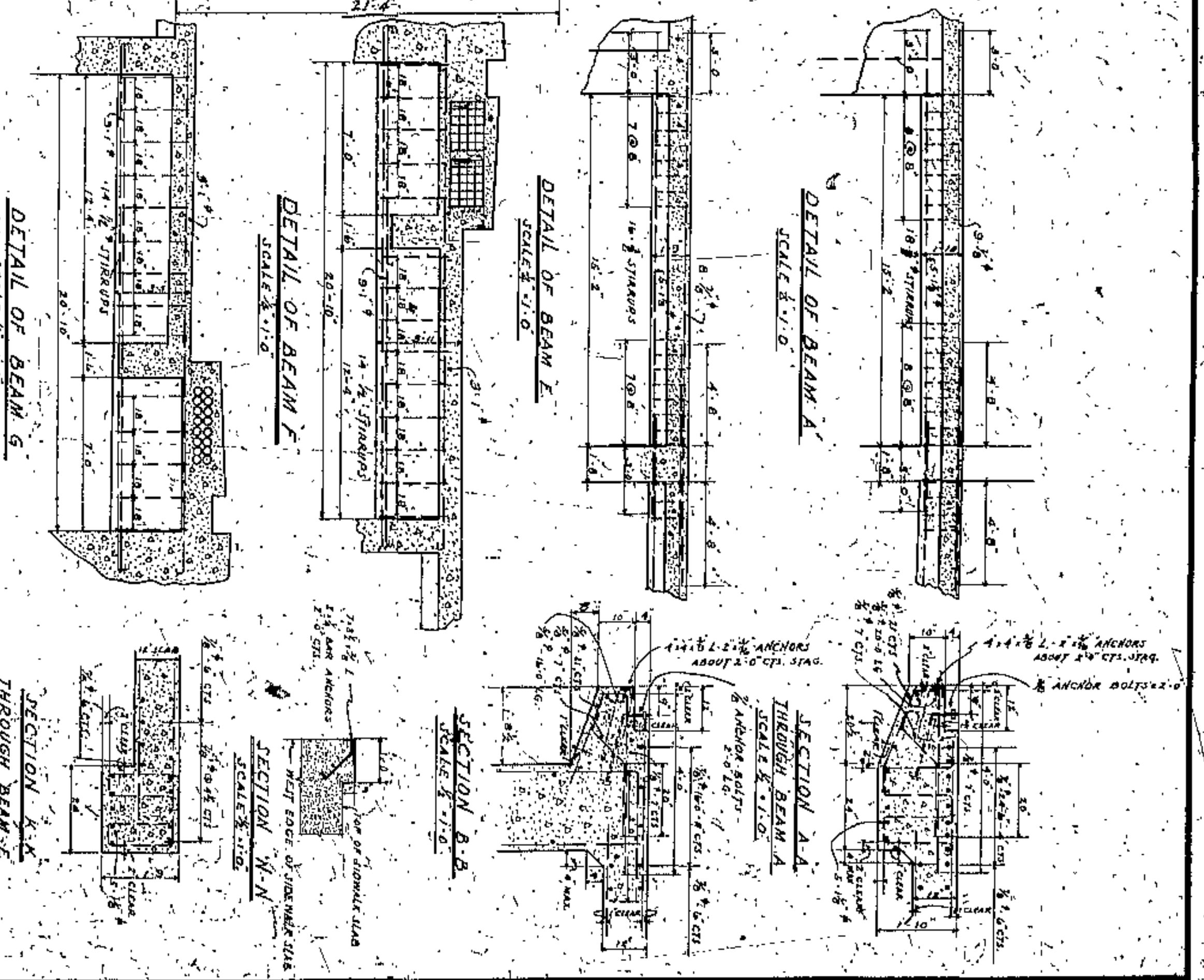
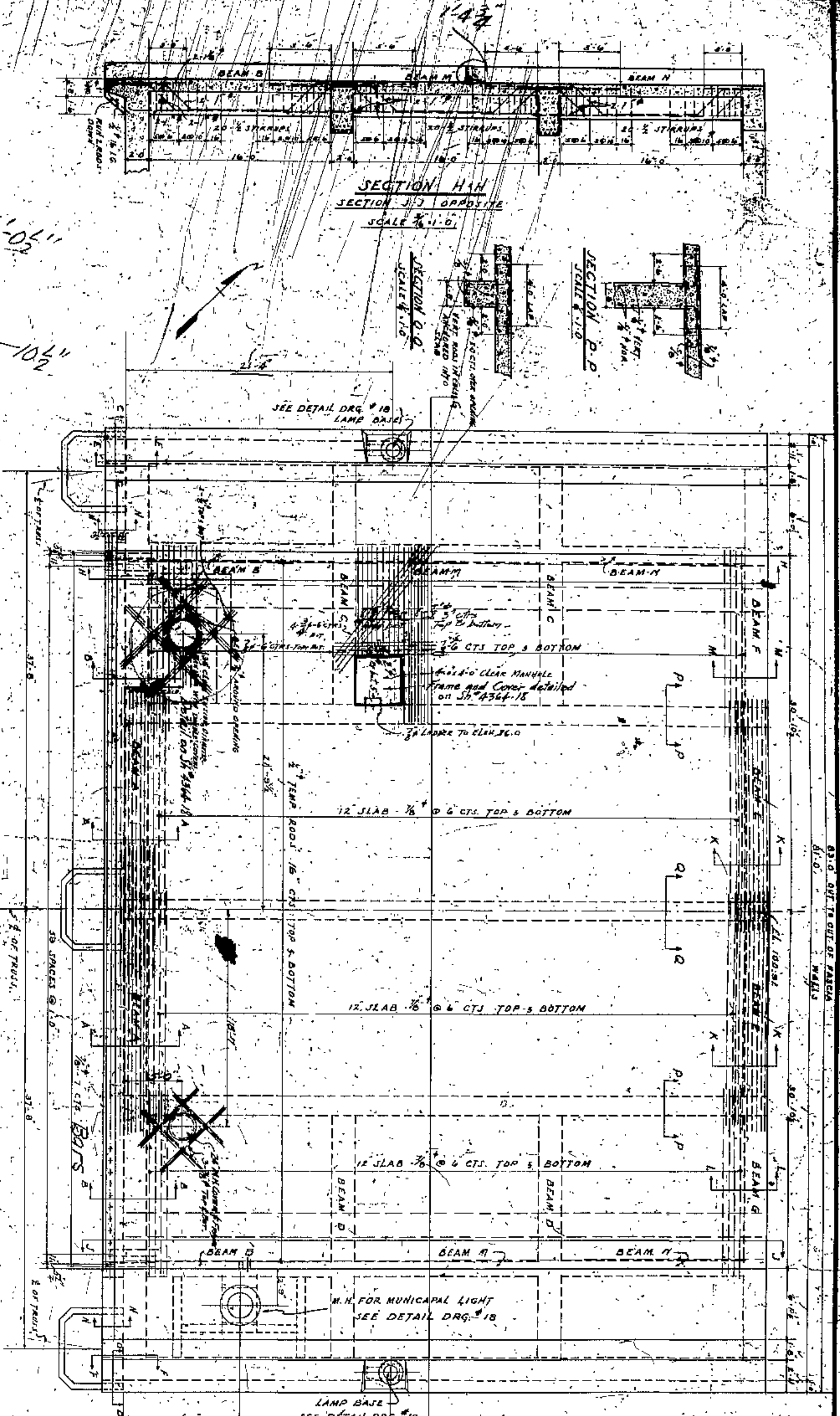
CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY JURISTOR  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. M. FELGATE  
 W. E. COOK

DETAILS OF WEST PYLON  
 LORAIN CENTRAL BRIDGE  
 CLEVELAND

WILBUR NATION AND FRANKER  
 ENGINEERS AND ARCHITECTS  
 CLEVELAND

NO.	DATE	DESCRIPTION
1	1915	PRELIMINARY
2	1915	FINAL
3	1915	REVISION
4	1915	REVISION
5	1915	REVISION
6	1915	REVISION
7	1915	REVISION
8	1915	REVISION
9	1915	REVISION
10	1915	REVISION





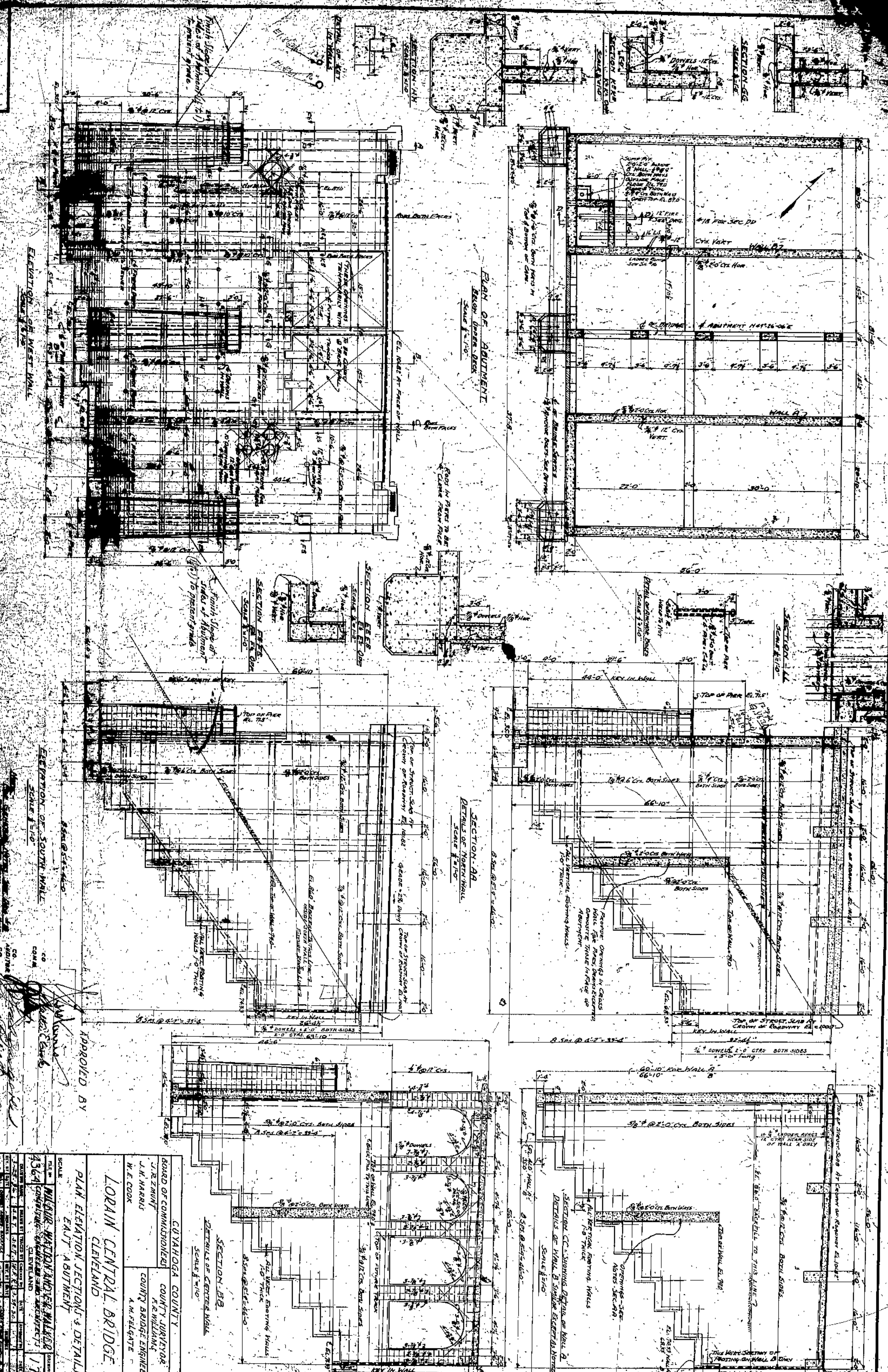
**LORAWN CENTRAL BRIDGE**  
 CLEVELAND  
 EAST ABUTMENT  
 DETAILS OF UPPER DECK  
 SCALE 3/8" = 1'-0"  
 PREPARED BY WATSON AND FRIEDLBERGER  
 ENGINEERS AND ARCHITECTS  
 CLEVELAND, OHIO  
 DRAWING NO. 16  
 SHEET NO. 16  
 DATE: 1916

APPROVED BY  
 J. R. ZIMMONT  
 COUNTY SUPERVISOR  
 FR. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK

BOARD OF COMMISSIONERS  
 CUYAHOGA COUNTY  
 J. R. ZIMMONT  
 COUNTY SUPERVISOR  
 FR. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK

NOTE:  
 1. All vertical dimensions are from the top of the deck.  
 2. All horizontal dimensions are from the centerline of the deck.  
 3. All dimensions are in feet and inches.  
 4. All dimensions are to the center of the bars.  
 5. All dimensions are to the center of the beams.  
 6. All dimensions are to the center of the slabs.  
 7. All dimensions are to the center of the sidewalks.  
 8. All dimensions are to the center of the curbs.  
 9. All dimensions are to the center of the walls.  
 10. All dimensions are to the center of the foundations.





APPROVED BY

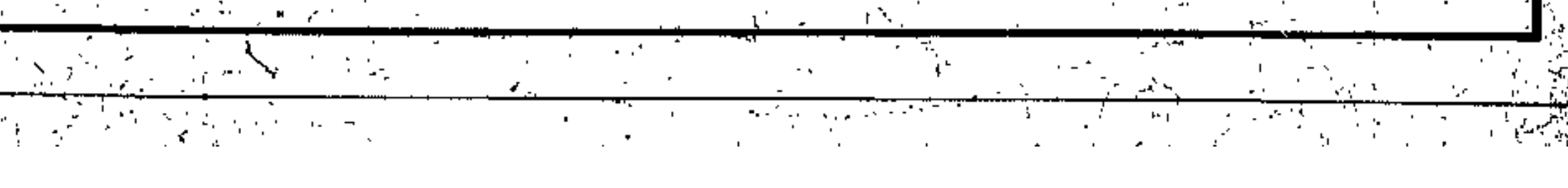
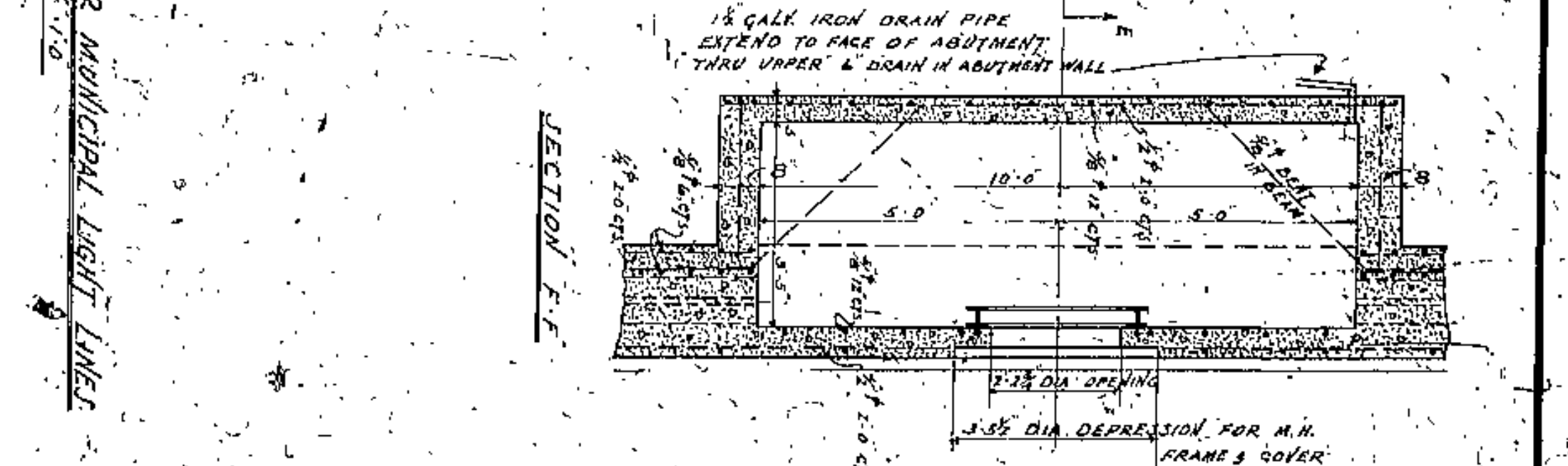
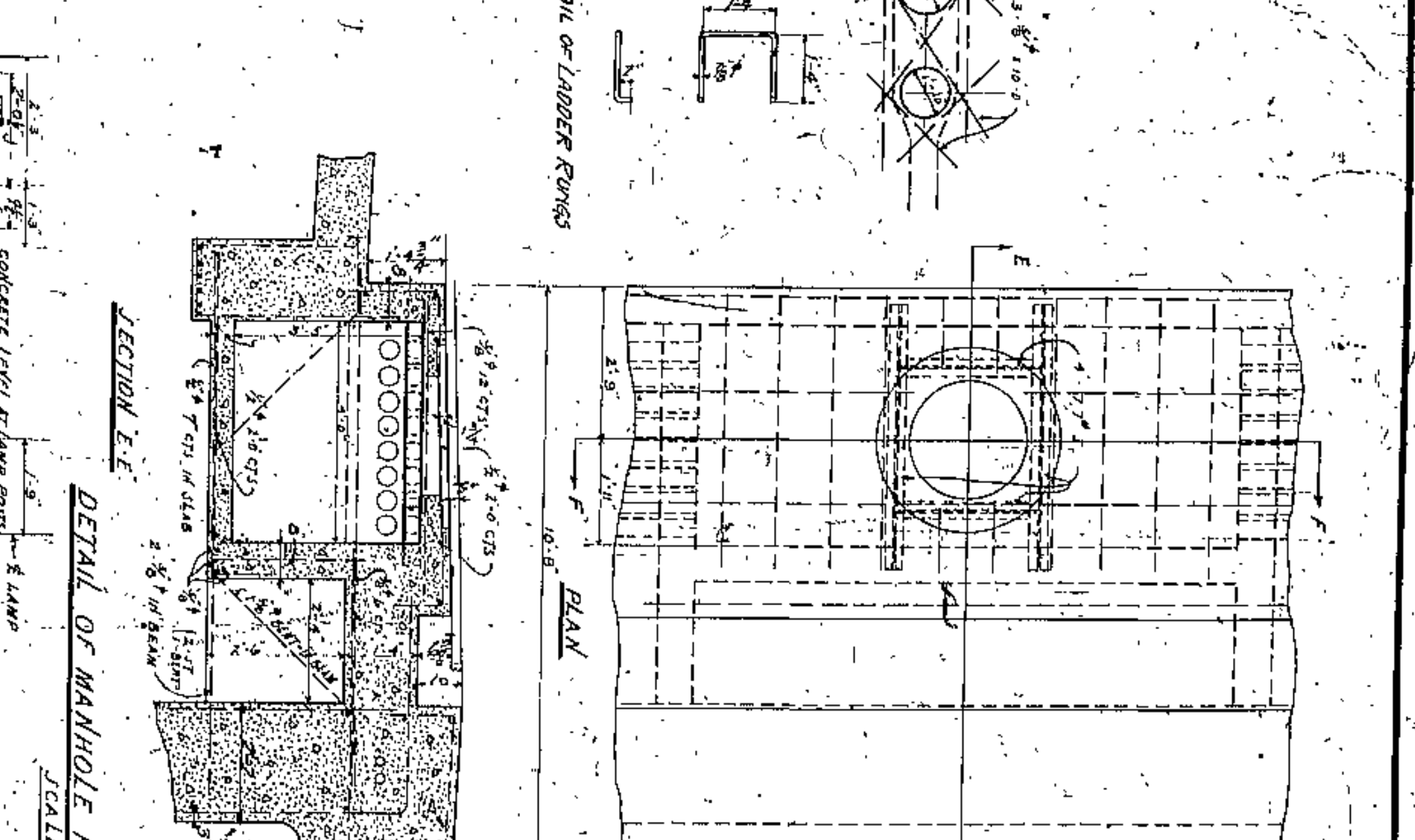
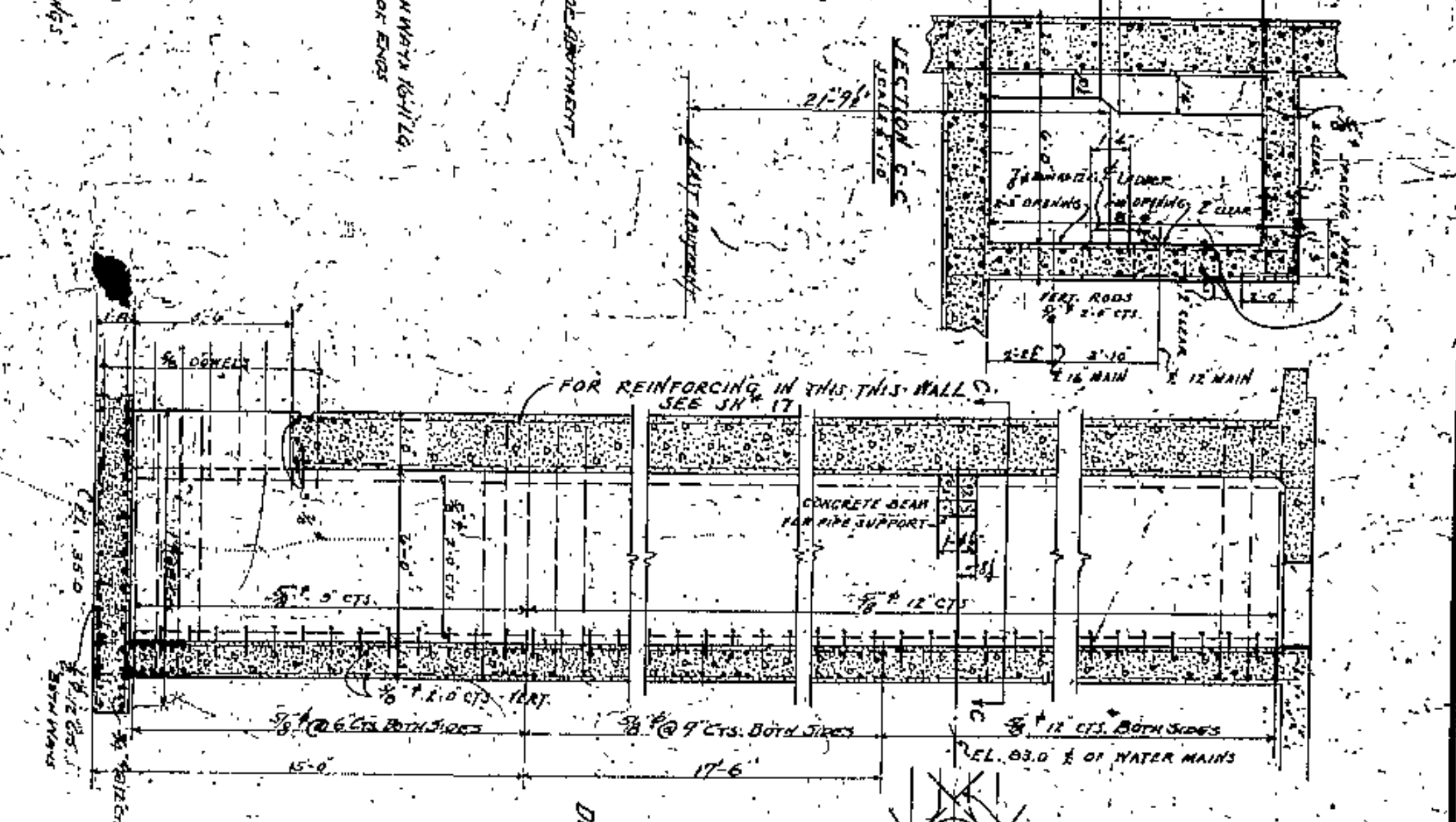
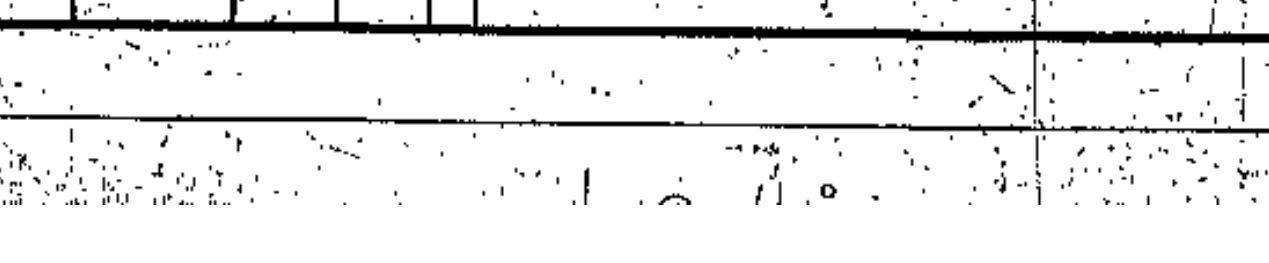
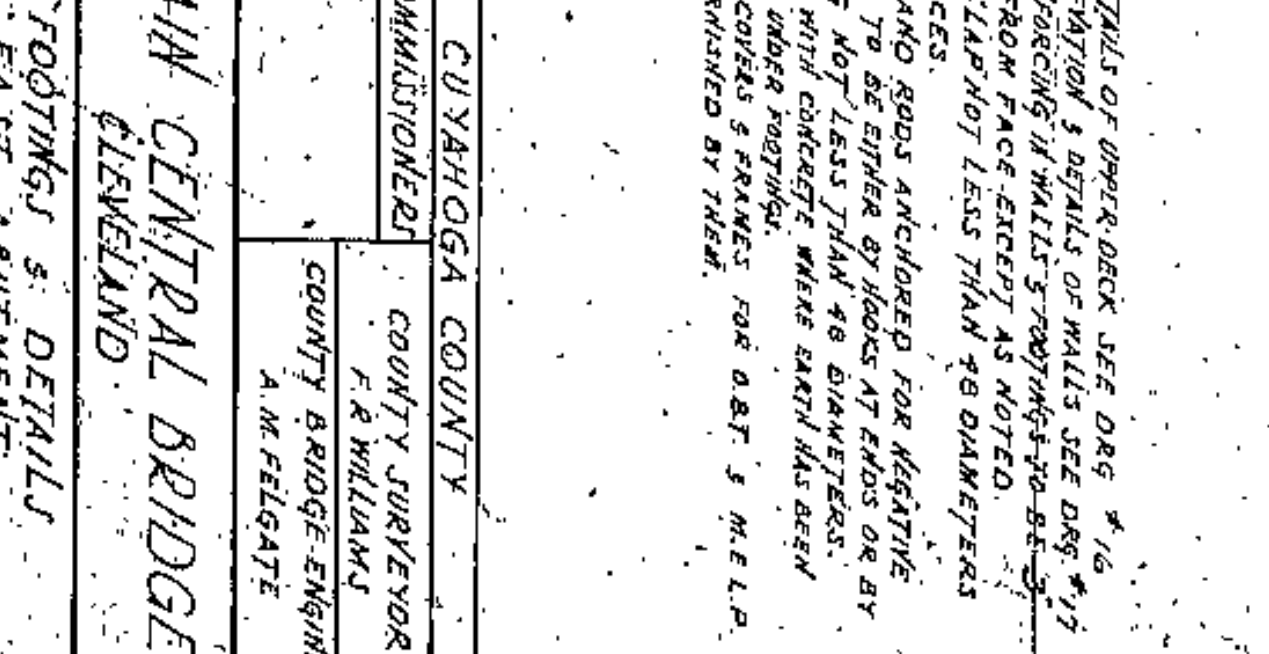
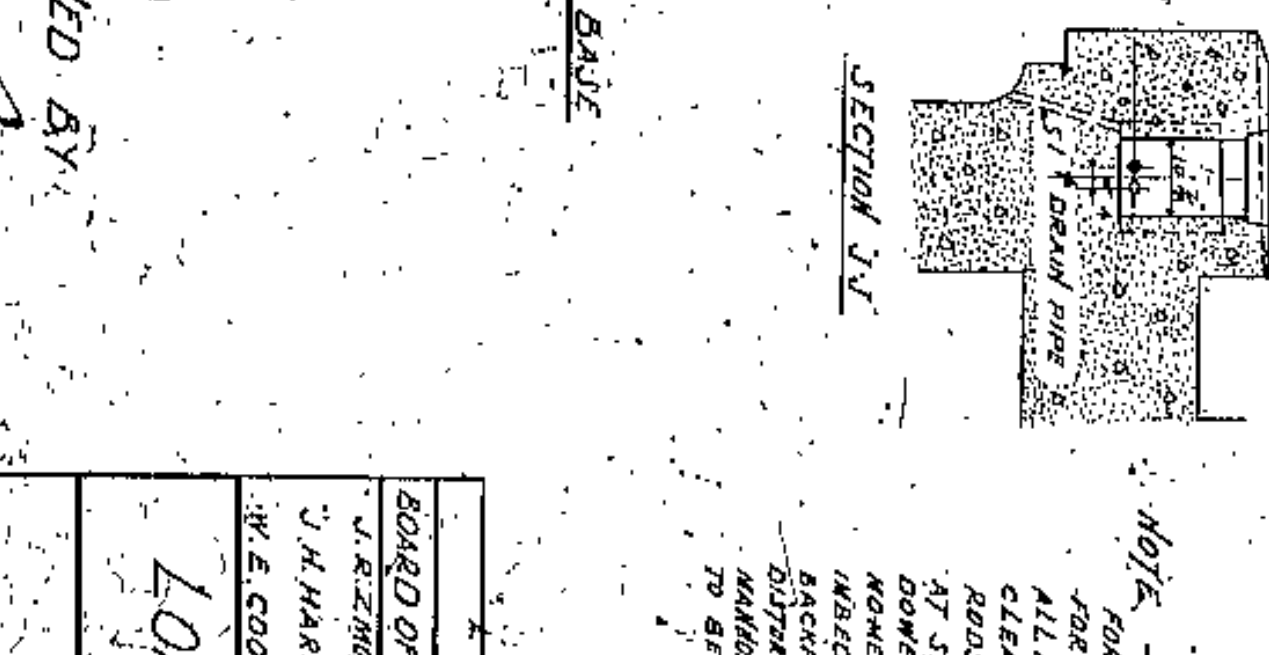
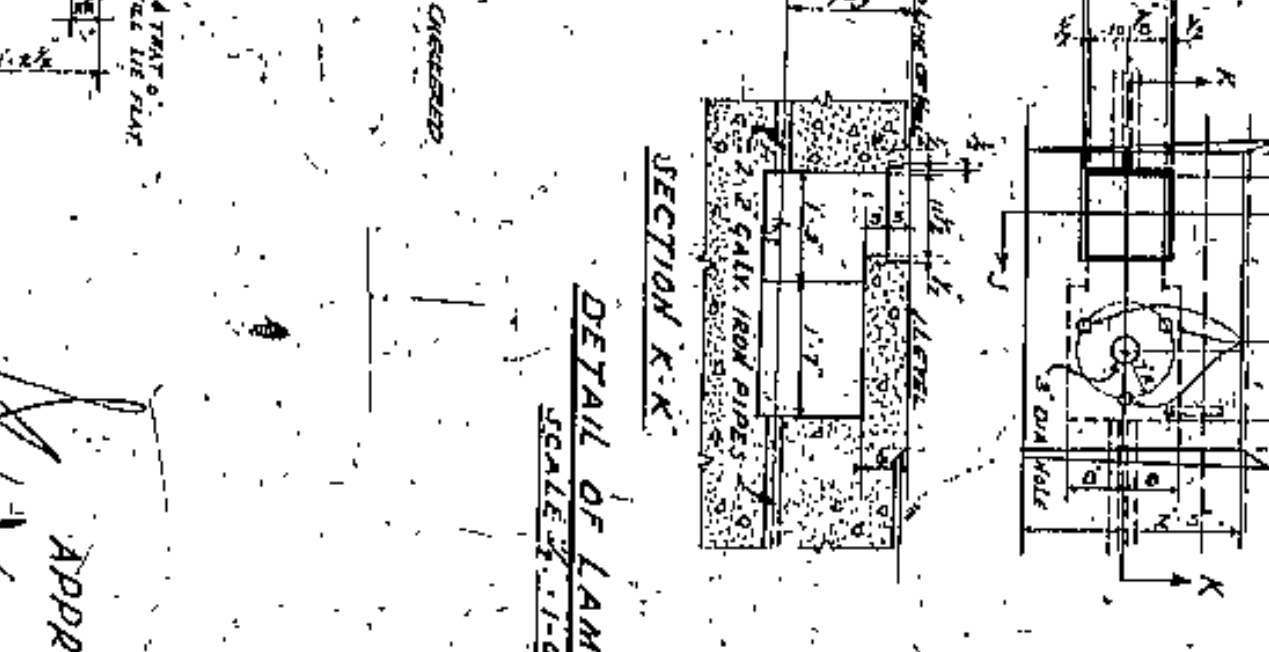
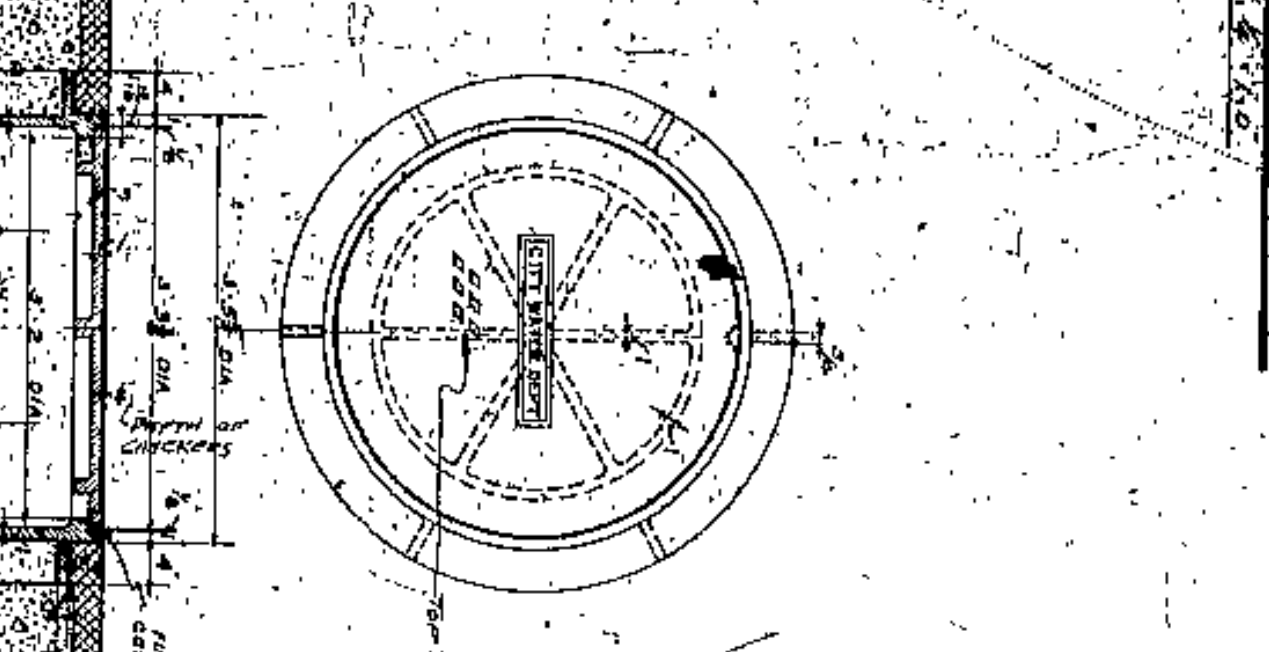
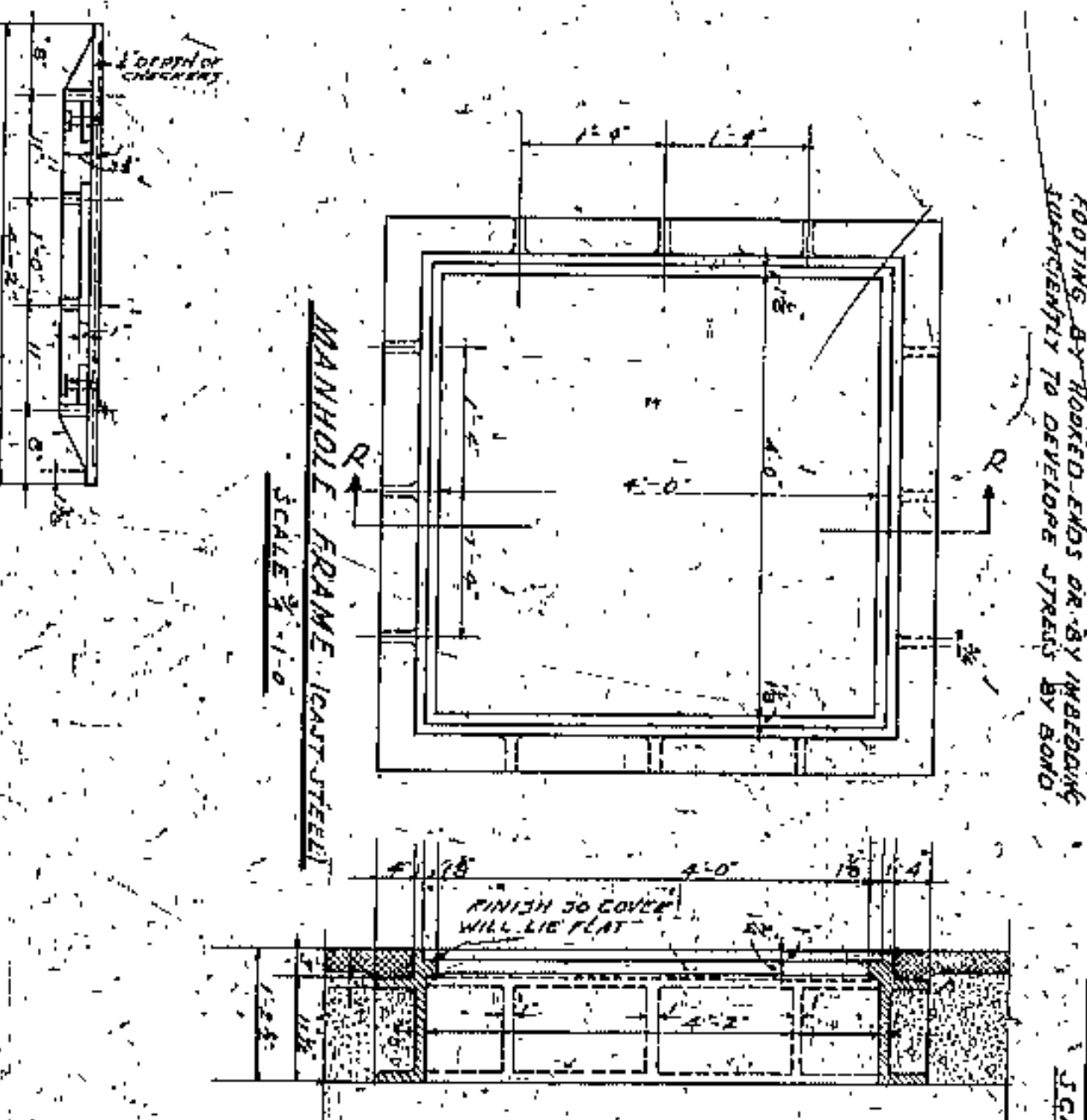
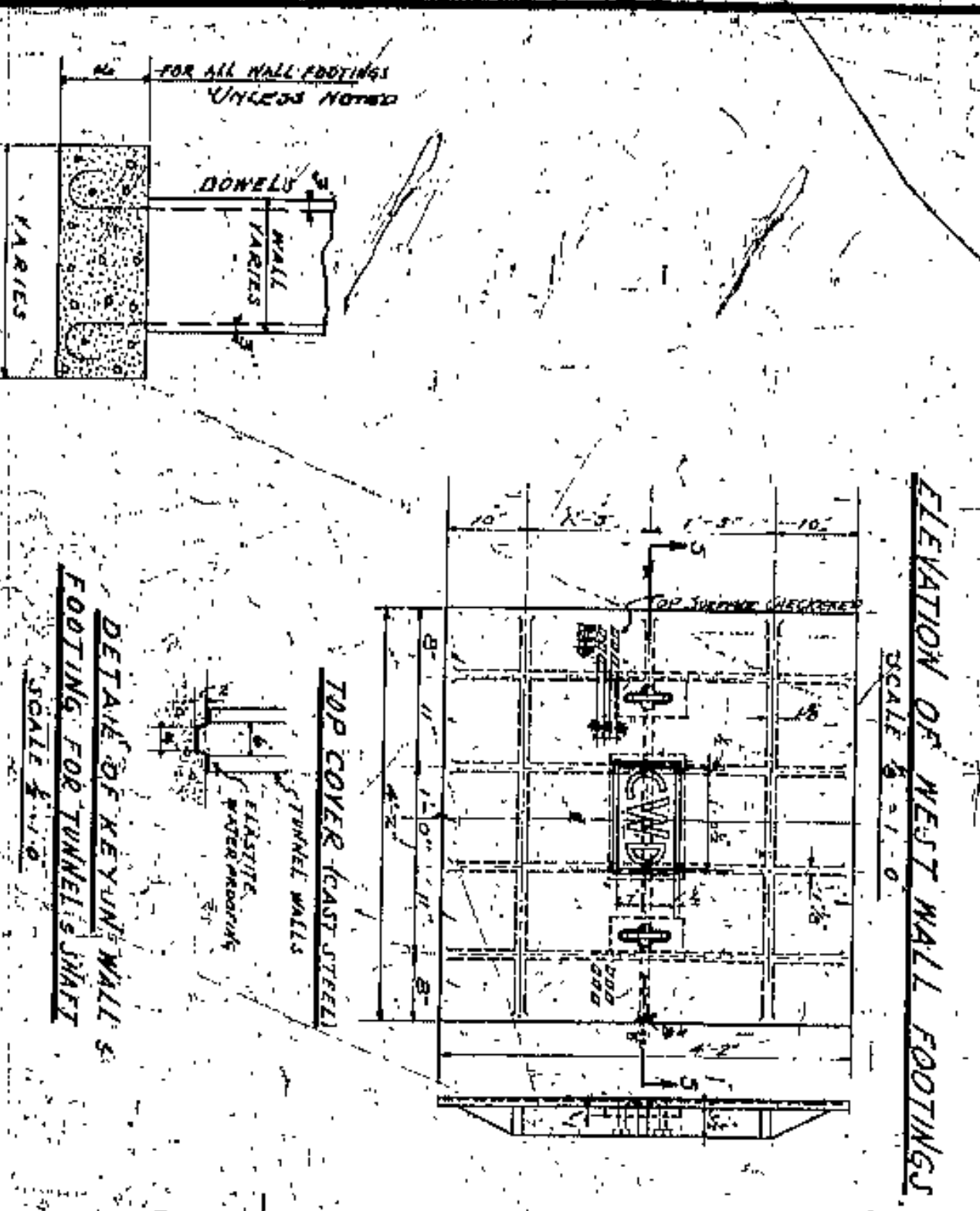
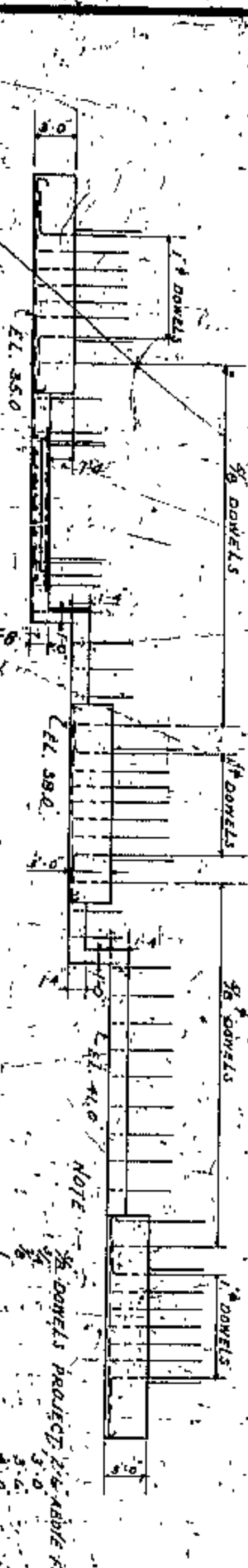
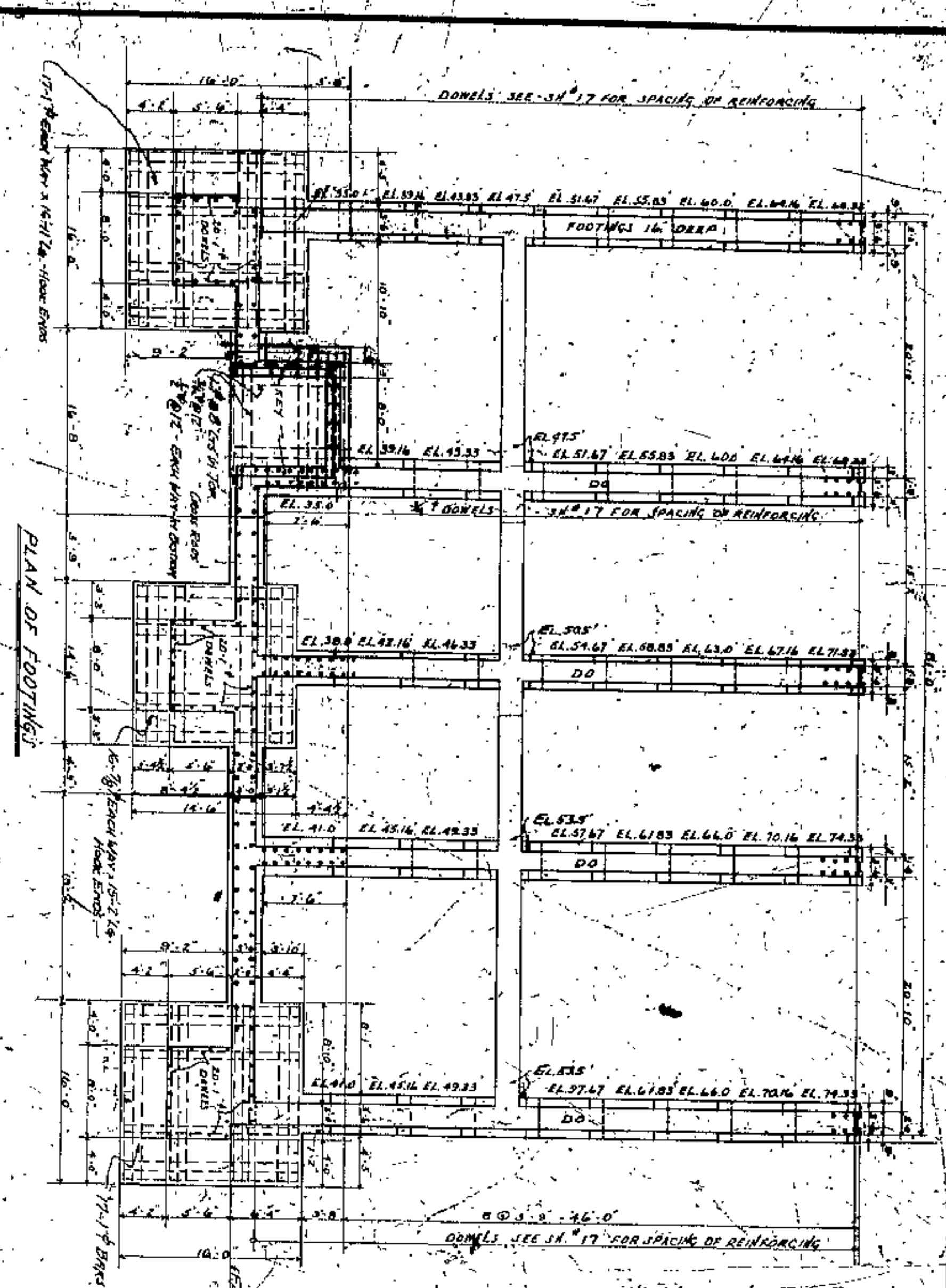
CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SHERIFF  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK  
 A. M. FELGATE

LORAIN CENTRAL BRIDGE  
 CLEVELAND

PLAN ELEVATION SECTIONS & DETAILS  
 EAST ABUTMENT

DATE	1/27/20	BY	W. E. COOK
SCALE	1/4" = 1'-0"	CHECKED BY	A. M. FELGATE
PROJECT NO.	3564	DESIGNED BY	W. E. COOK
CITY	CLEVELAND	CONTRACT NO.	17





**NOTE:**  
 FOR DETAILS OF UPPER DECK SEE DRG. #16  
 FOR ELEVATION & DETAILS OF WALLS SEE DRG. #17  
 ALL REINFORCING IS TO BE 5' TYPING-DECK-5'  
 CLEAR FROM FACE OF WALL, AS NOTED.  
 REINFORCING IS TO BE 5' TYPING-DECK-5'  
 CLEAR FROM FACE OF WALL, AS NOTED.  
 AT SPACERS WHO GOES ATTACHED FOR KEYING  
 MOMENTS TO BE EMPLOYED IN CASES OR BY  
 MANUFACTURER'S INSTRUCTIONS.  
 MANHOLE COVERS & FRAMES FOR D&T & M.E.P.  
 TO BE FURNISHED BY THEM.

APPROVED BY  
 [Signature]  
 COUNTY ENGINEER

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SURVEYOR  
 COUNTY BRIDGE ENGINEER  
 COUNTY ENGINEER

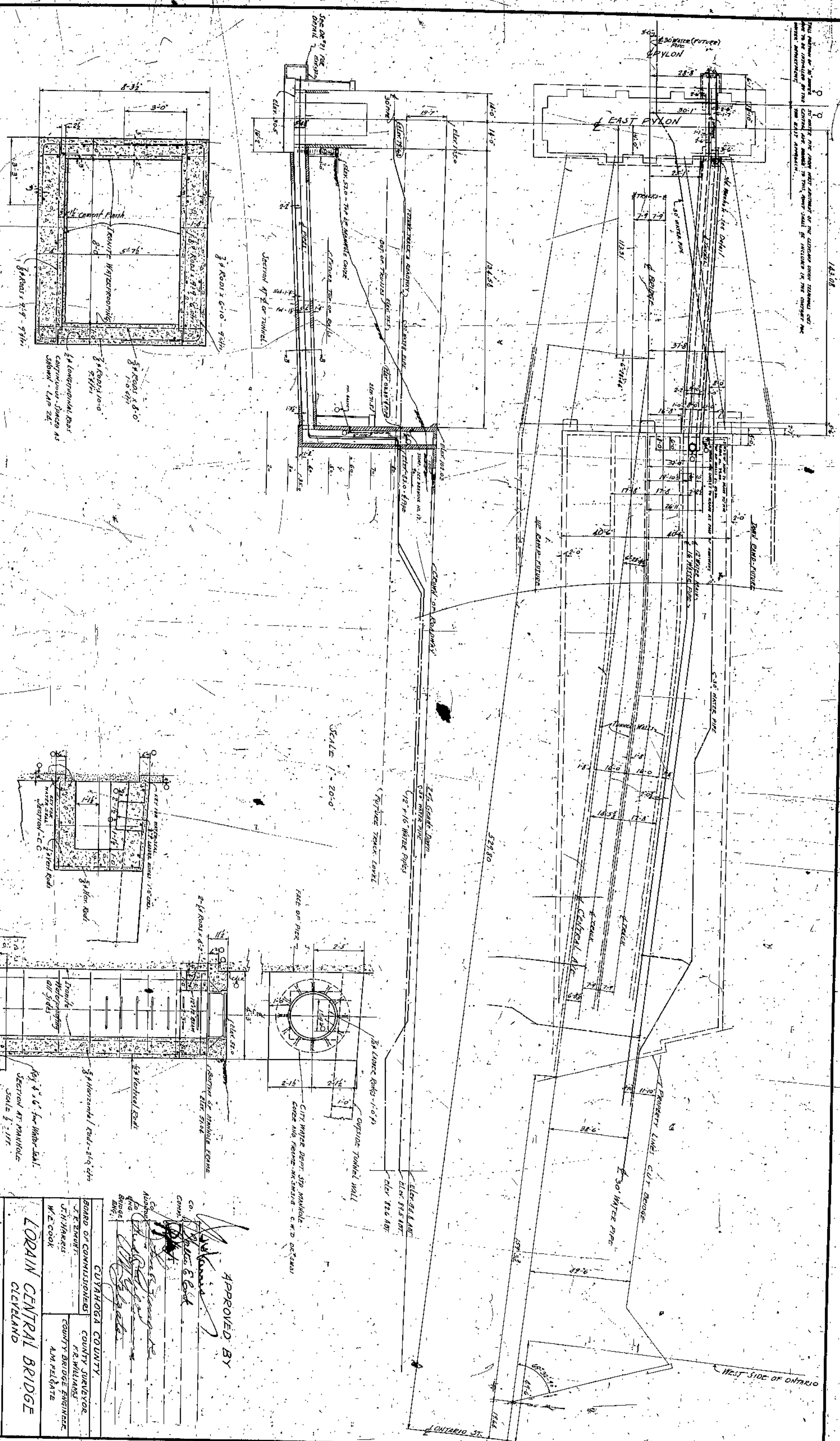
**LORAIN CENTRAL BRIDGE**  
 CLEVELAND

FOOTINGS & DETAILS  
 EAST ABUTMENT

FILE NO.	4364
DATE	1918
DESIGNED BY	WILSON, MATTISON & BARKER
CHECKED BY	WILSON, MATTISON & BARKER
DATE	1918
SCALE	AS SHOWN
PROJECT	LORAIN CENTRAL BRIDGE
LOCATION	CLEVELAND
CONTRACT NO.	18
CONTRACT DATE	1918
CONTRACT VALUE	
CONTRACTOR	
ENGINEER	WILSON, MATTISON & BARKER
ARCHITECT	WILSON, MATTISON & BARKER
DATE	1918



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SECTION A-B  
SCALE 1/4" = 1'-0"

SCALE 1/4" = 20'-0"

SECTION AT MANHOLE  
SCALE 1/4" = 1'-0"

APPROVED BY  
CITY WATERWORKS DEPT.

APPROVED BY

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SUPERVISOR  
F. R. WILLIAMS  
COUNTY BRIDGE ENGINEER  
A. M. PELGATE  
W. C. COOK

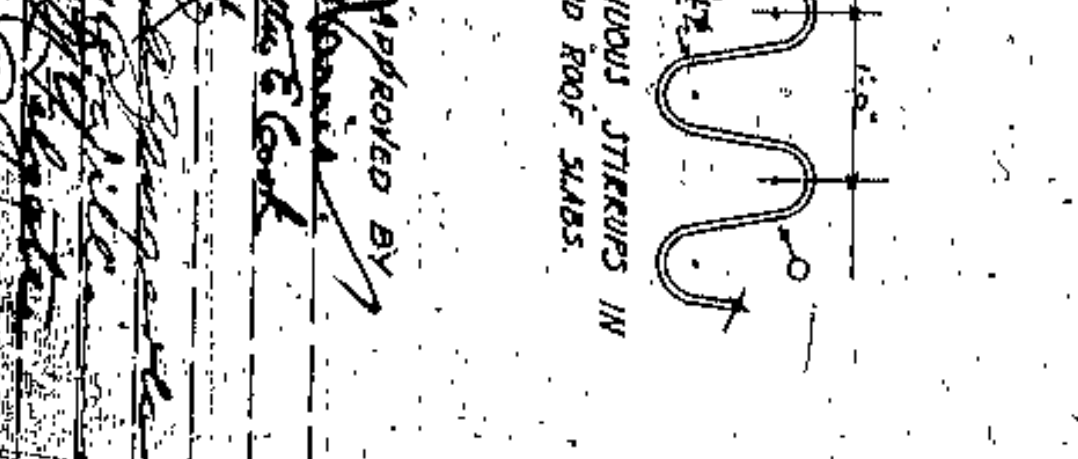
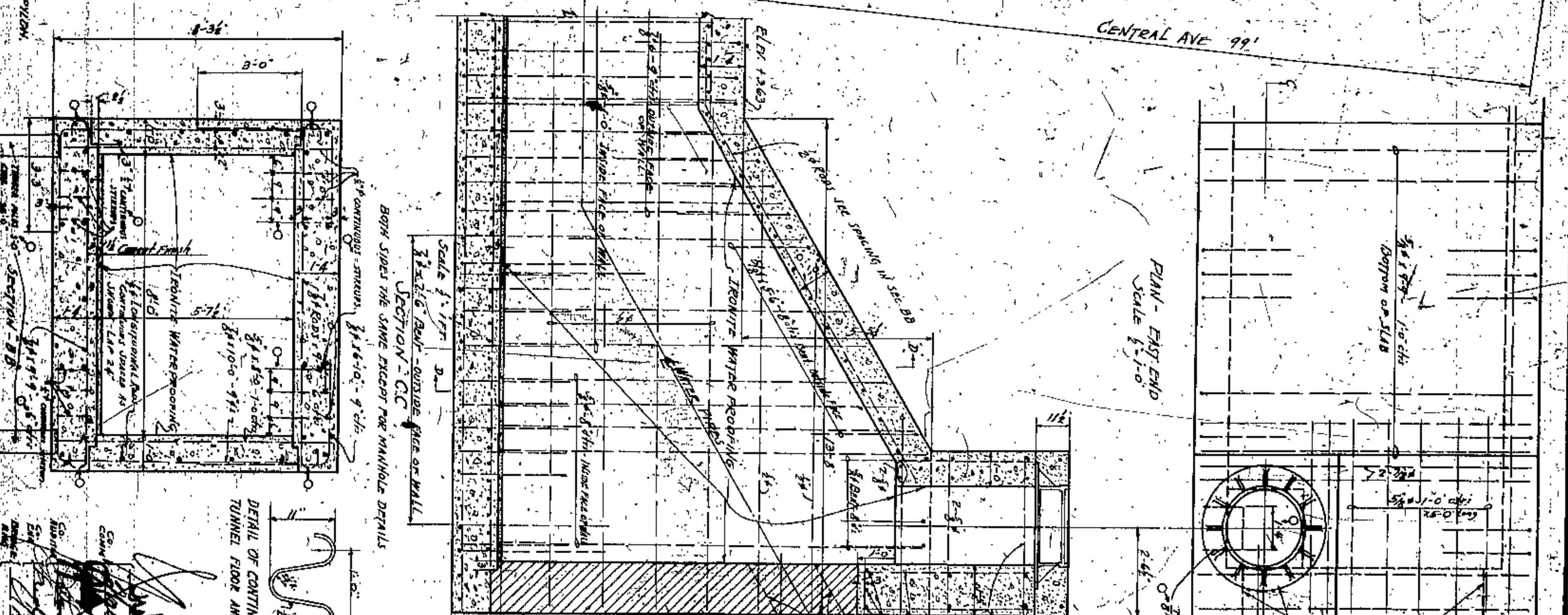
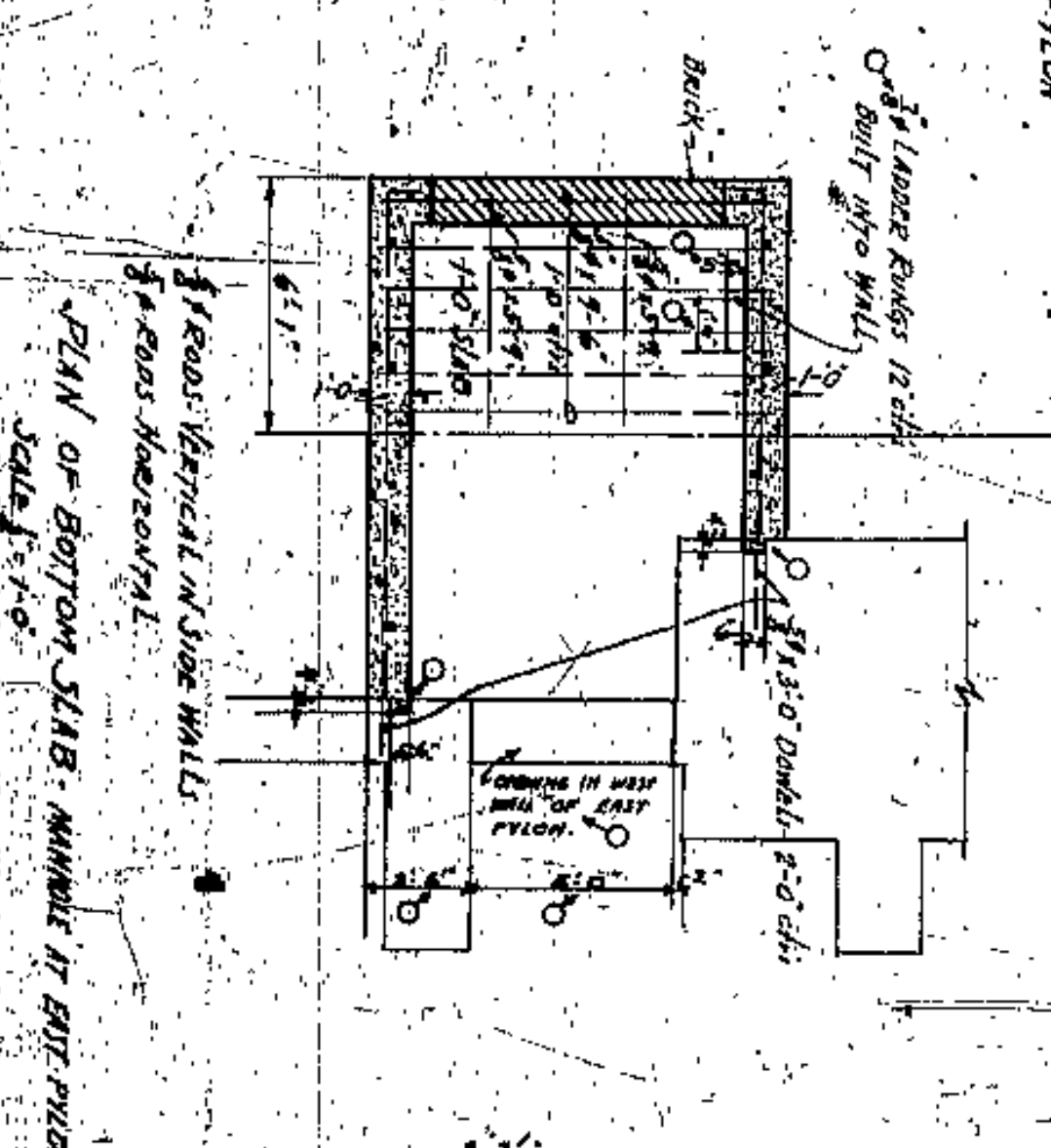
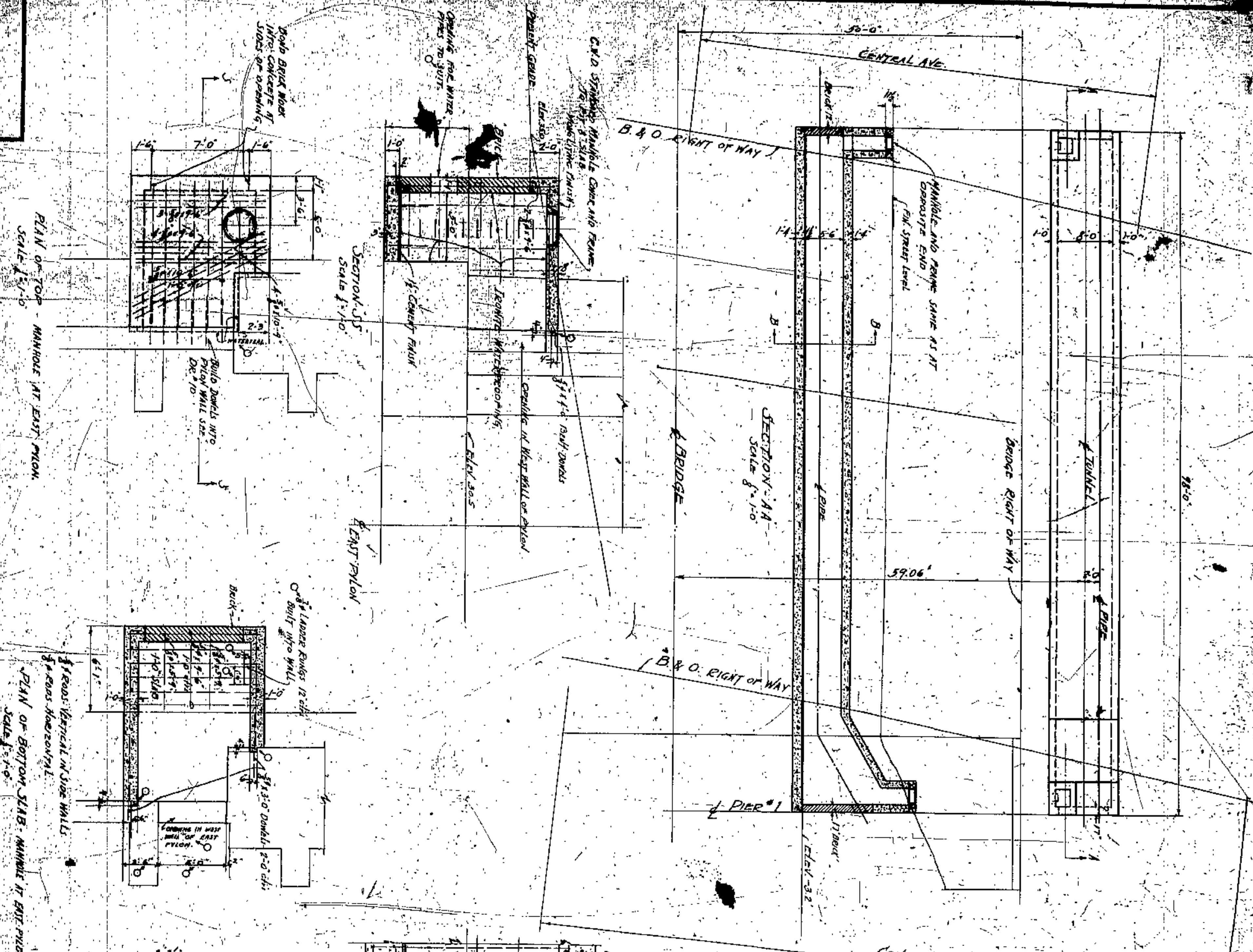
LORAIN CENTRAL BRIDGE  
CLEVELAND

TUNNEL FOR WATER PIPES  
(EAST PYLON TO EAST ABUT.)

WILBUR WATSON AND FR. WALTER  
CONSULTING ENGINEERS AND ARCHITECTS  
CLEVELAND

NO. 4364	DATE 1-2-20	SCALE 1/4" = 1'-0"
DATE 1-2-20	DATE 1-2-20	DATE 1-2-20
DATE 1-2-20	DATE 1-2-20	DATE 1-2-20
DATE 1-2-20	DATE 1-2-20	DATE 1-2-20
DATE 1-2-20	DATE 1-2-20	DATE 1-2-20





Approved by: *[Signature]*  
Checked by: *[Signature]*  
Drawn by: *[Signature]*

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SUPERVISOR  
J. E. EMERY  
J. H. HARRIS  
W. C. COOK

COUNTY BRIDGE ENGINEER  
J. M. FERGUSON

**LORAIN CENTRAL BRIDGE**  
CLEVELAND

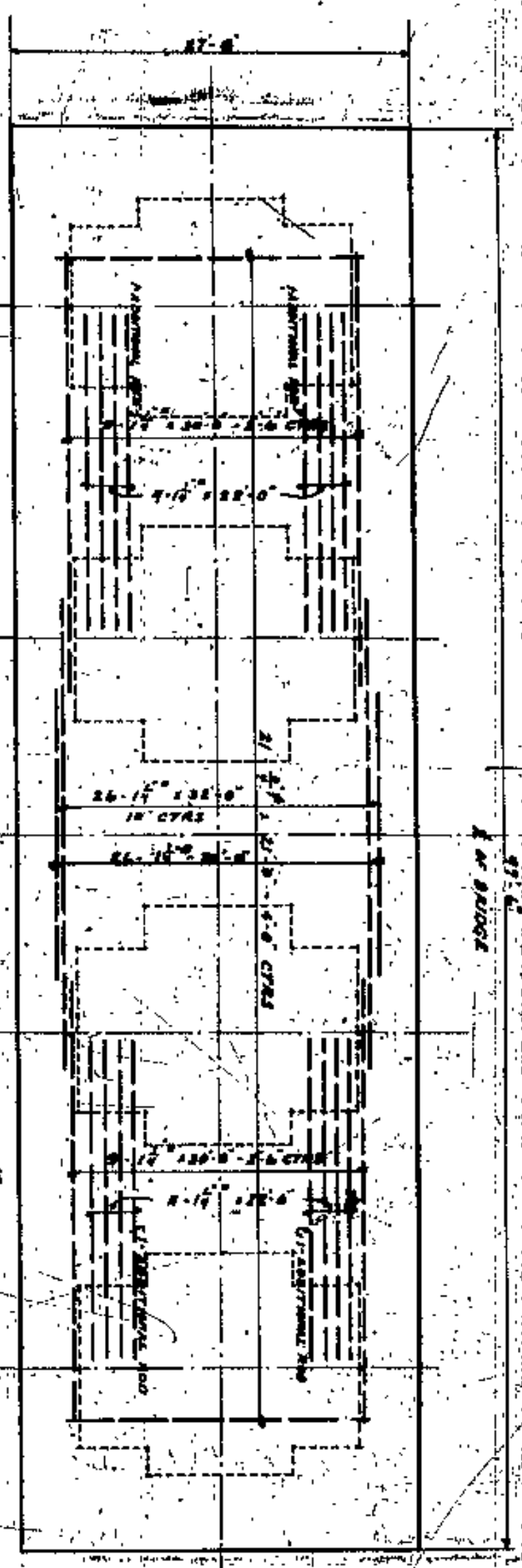
TUNNEL FOR WATER PIPES (AT BACK) AND MANHOLE AT EAST PYLON

DATE	1/3/19	BY	J.M.F.	REVISION	1
DATE	1/3/19	BY	J.M.F.	REVISION	2
DATE	1/3/19	BY	J.M.F.	REVISION	3
DATE	1/3/19	BY	J.M.F.	REVISION	4
DATE	1/3/19	BY	J.M.F.	REVISION	5
DATE	1/3/19	BY	J.M.F.	REVISION	6
DATE	1/3/19	BY	J.M.F.	REVISION	7
DATE	1/3/19	BY	J.M.F.	REVISION	8
DATE	1/3/19	BY	J.M.F.	REVISION	9
DATE	1/3/19	BY	J.M.F.	REVISION	10





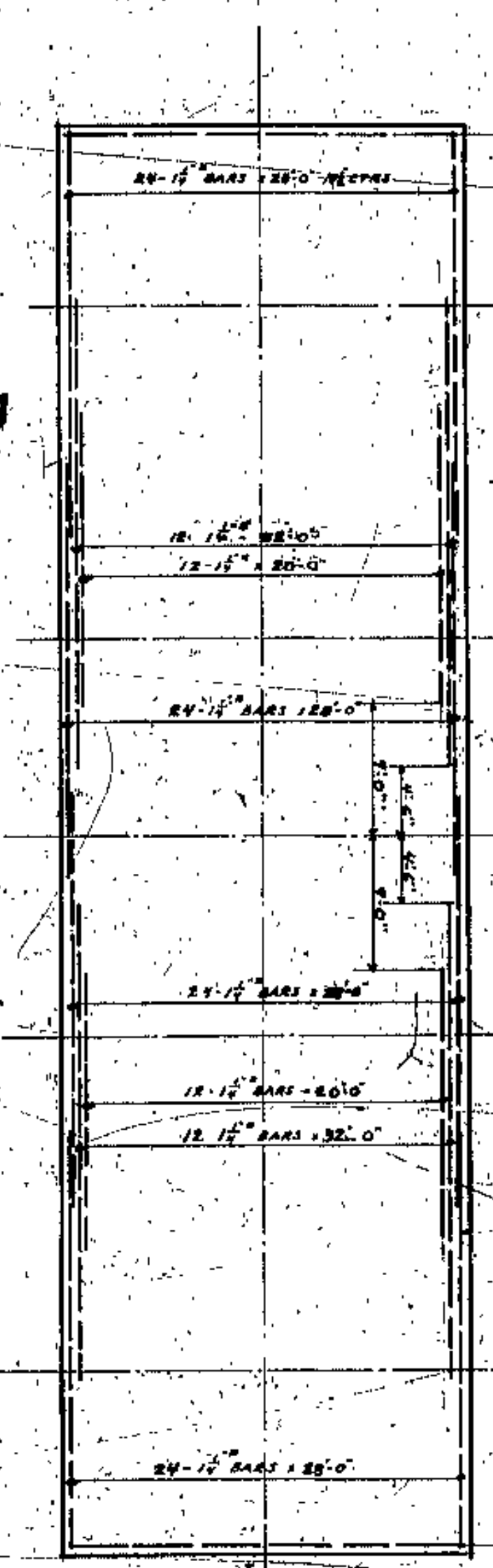




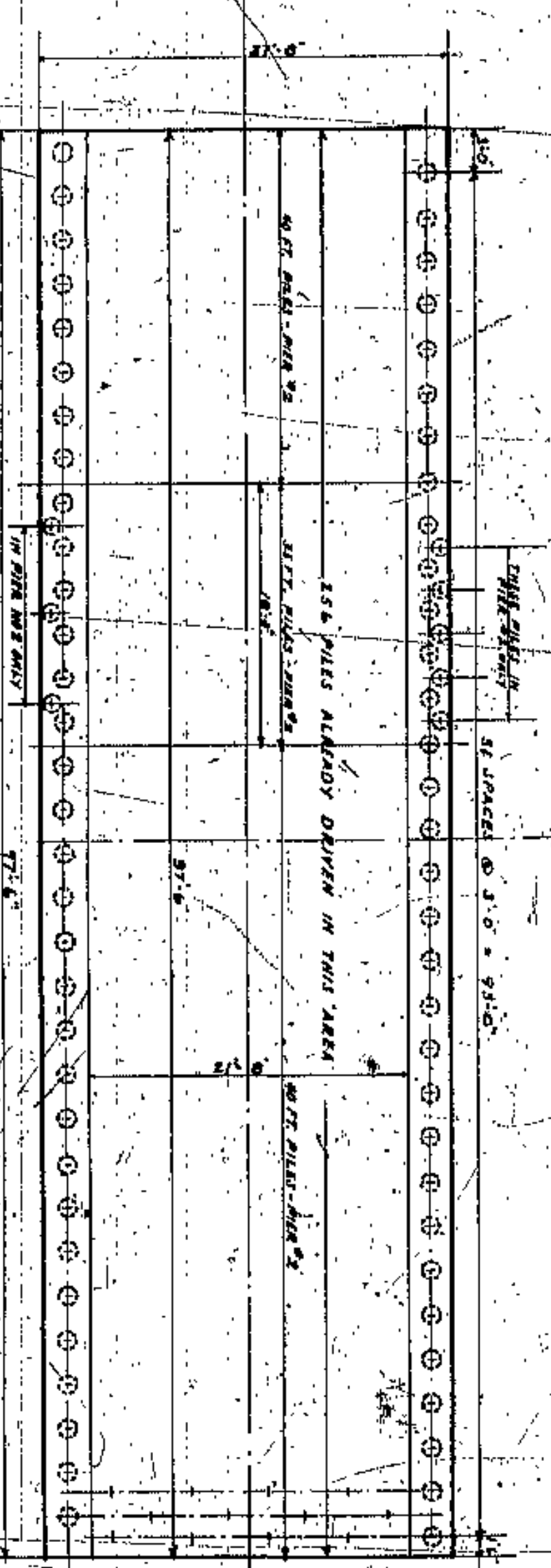
PLAN OF REINFORCING STEEL IN TOP OF FOOTING  
SCALE 1/4" = 1'-0"



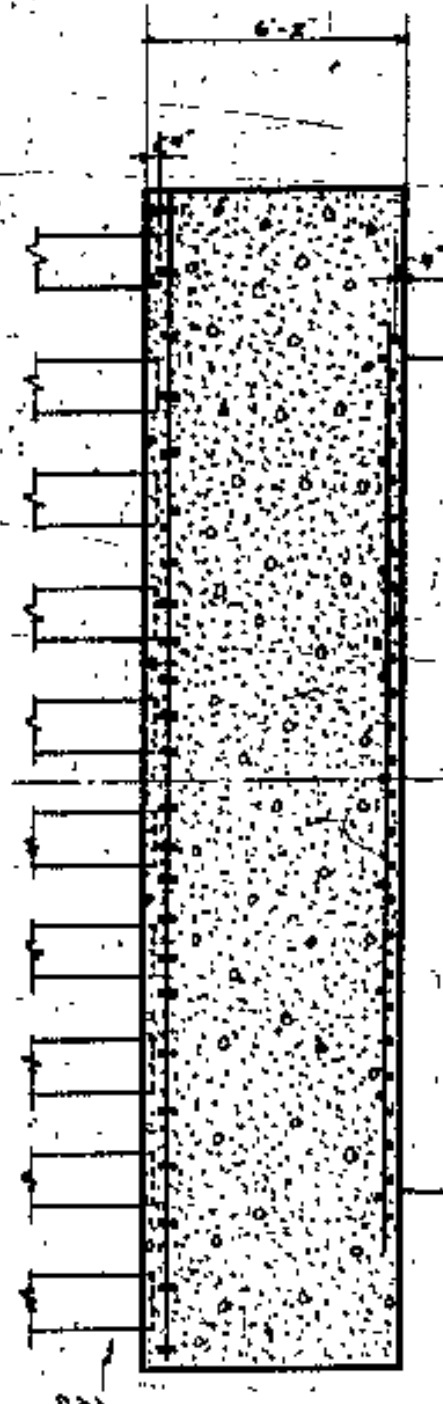
LONGITUDINAL SECTION ON CENTER LINE  
SCALE 1/4" = 1'-0"



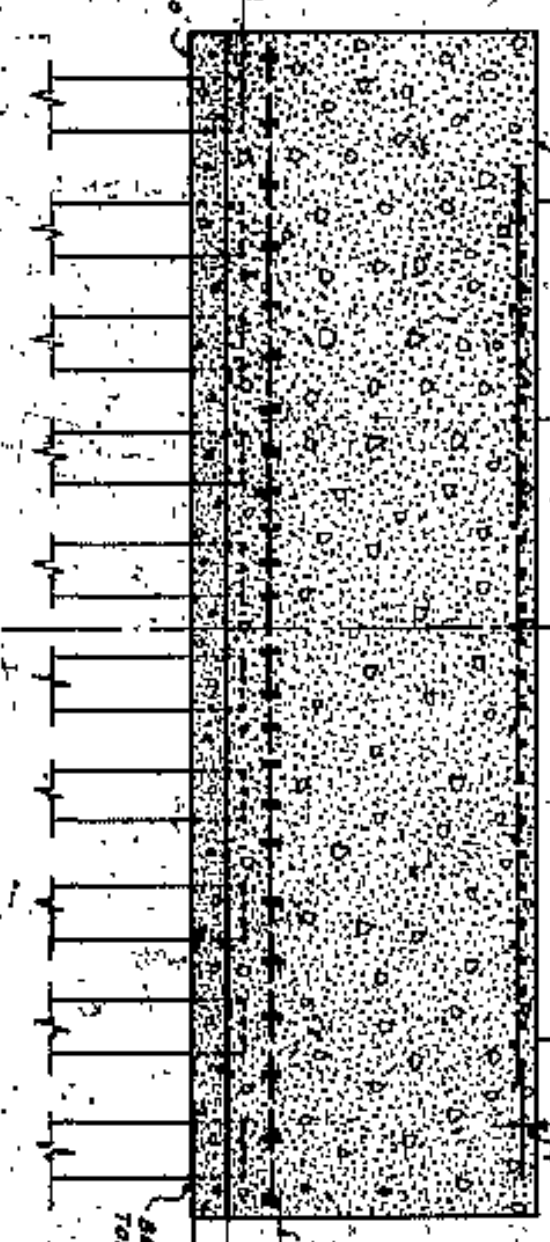
REINFORCING STEEL IN BOTTOM OF FOOTING  
SCALE 1/4" = 1'-0"



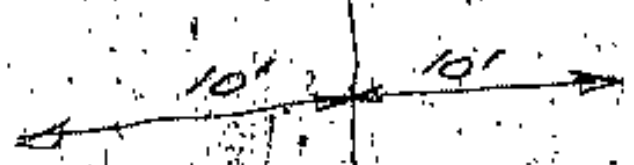
PLAN FOR NEW PILES  
SCALE 1/4" = 1'-0"



SECTION A-A (PIER NO. 1)  
SCALE 1/2" = 1'-0"



SECTION A-A (PIER NO. 2)  
SCALE 1/2" = 1'-0"



APPROVED BY

CO. ENGINEER  
CO. ENGINEER  
CO. ENGINEER  
CO. ENGINEER

NOTE: USE FOOTING DESIGN SHOWN ON THIS SHEET IN PLACE OF THAT SHOWN ON SHEET 4554-2 FOR PIERS 1 AND 2.

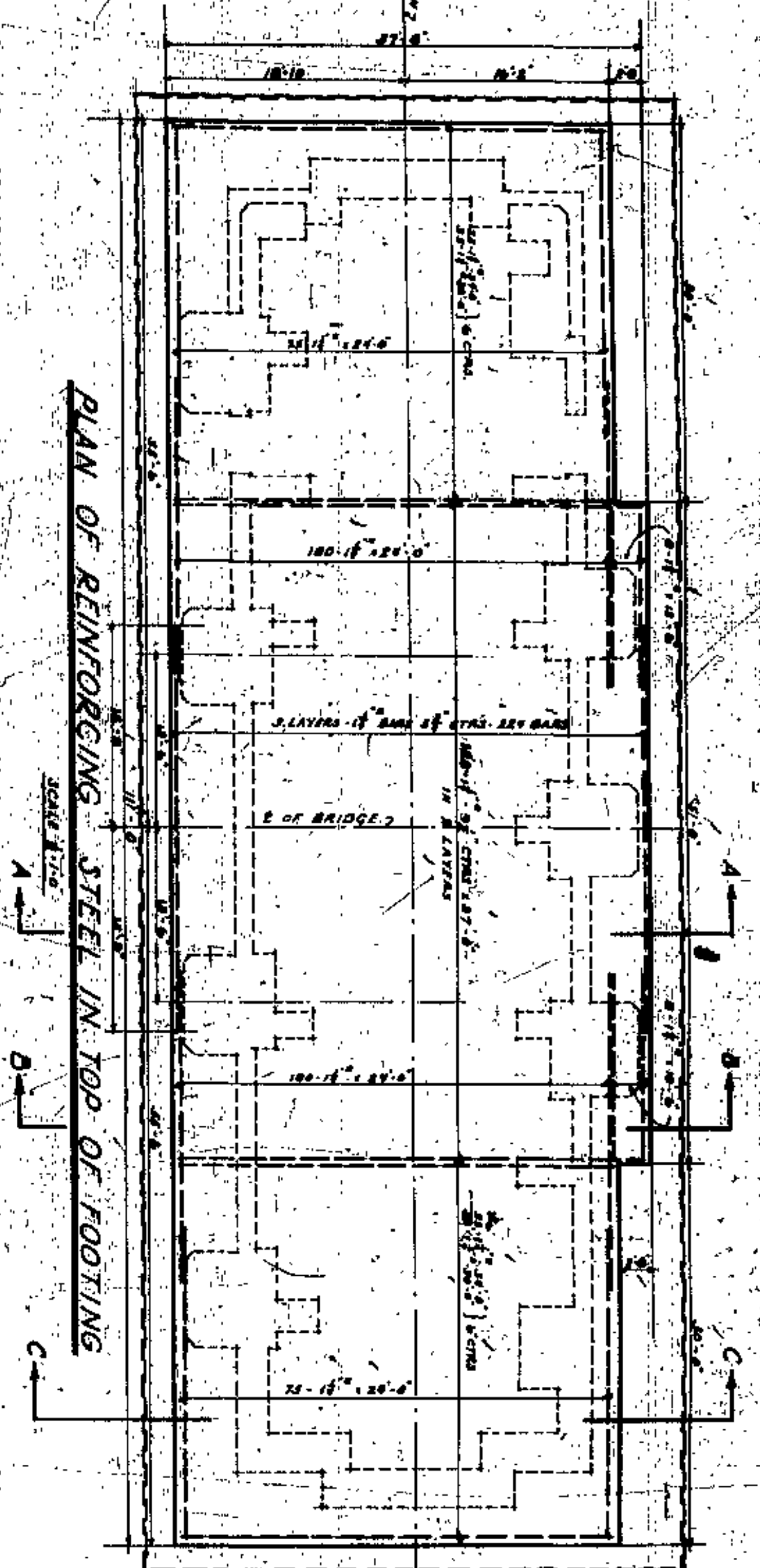
CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SUPERVISOR
W.E. COOK	F.R. WILLIAMS
L.H. SHARPS	COUNTY BRIDGE ENGINEER
A.F. GORMAN	A. MEEGATE

**LORAIN CENTRAL BRIDGE**  
CLEVELAND

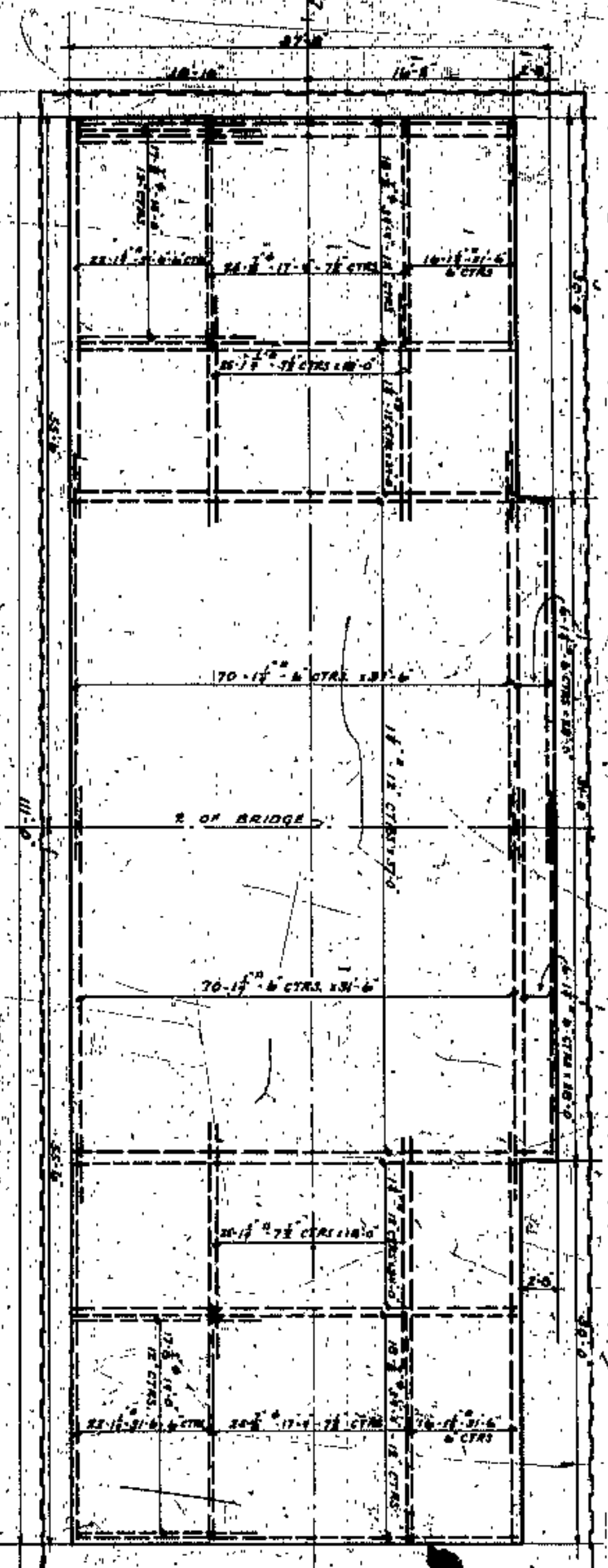
REVISED FOOTING PLAN FOR PIER #2 AND PIER #1

NO. 4364	WILLIAMS, NATION AND FEE WALKER	DATE
DESIGNED BY	W.F. WALKER	DATE
CHECKED BY	F.R. WILLIAMS	DATE
APPROVED BY	A.F. GORMAN	DATE
DATE		

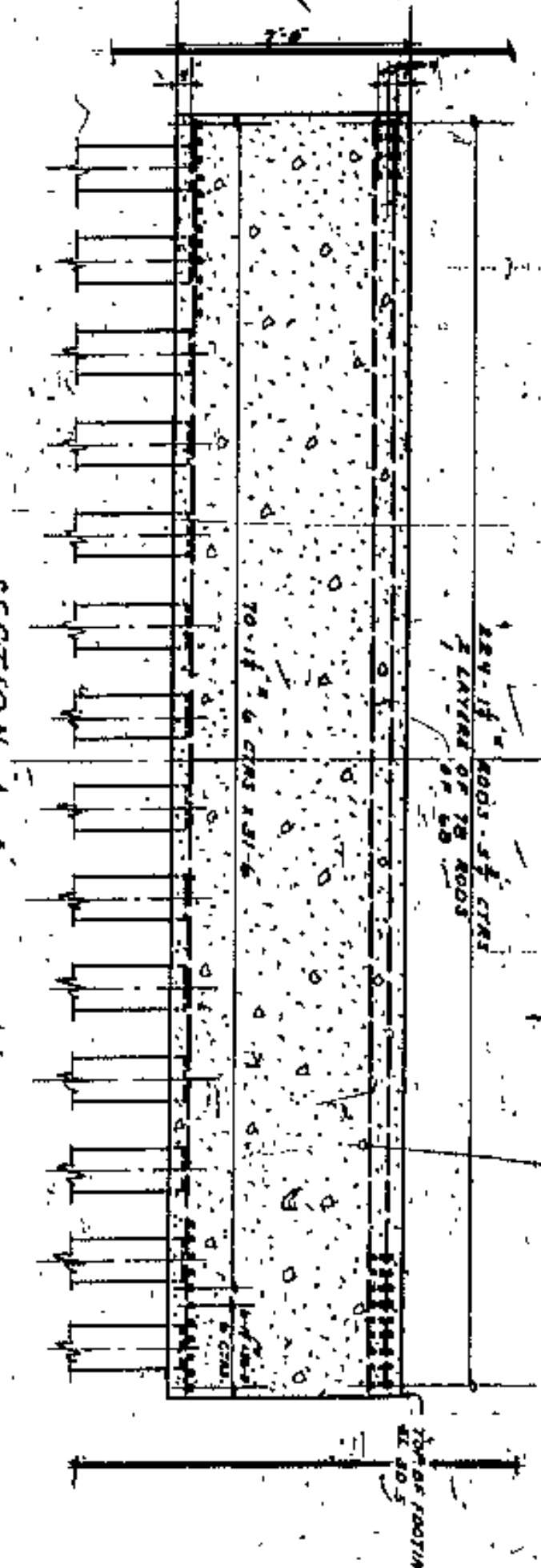




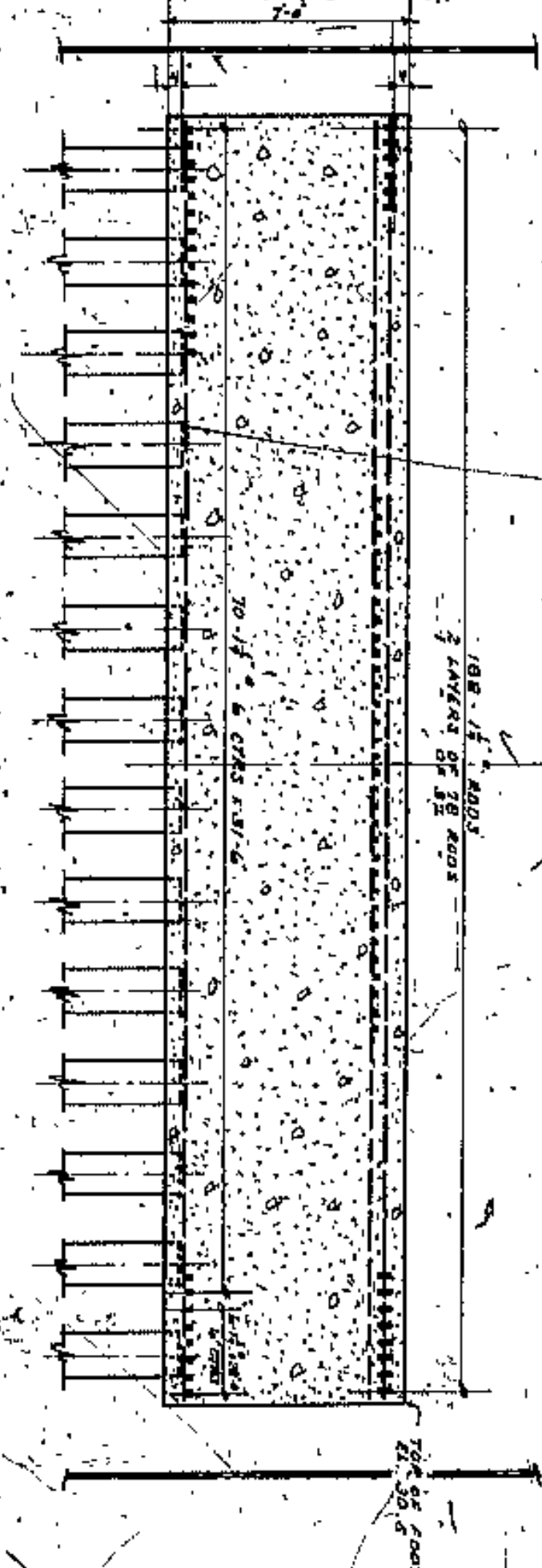
PLAN OF REINFORCING STEEL IN TOP OF FOOTING  
SCALE 1/2" = 1'-0"



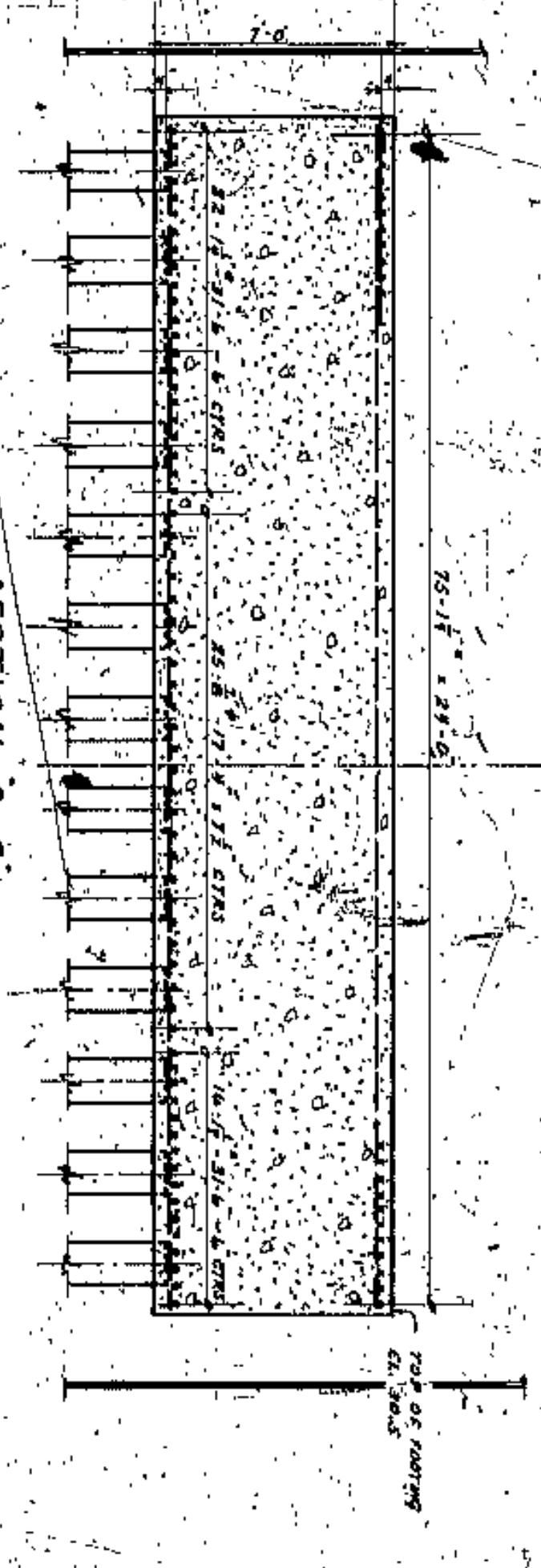
PLAN OF REINFORCING STEEL IN BOTTOM OF FOOTING  
SCALE 1/2" = 1'-0"



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

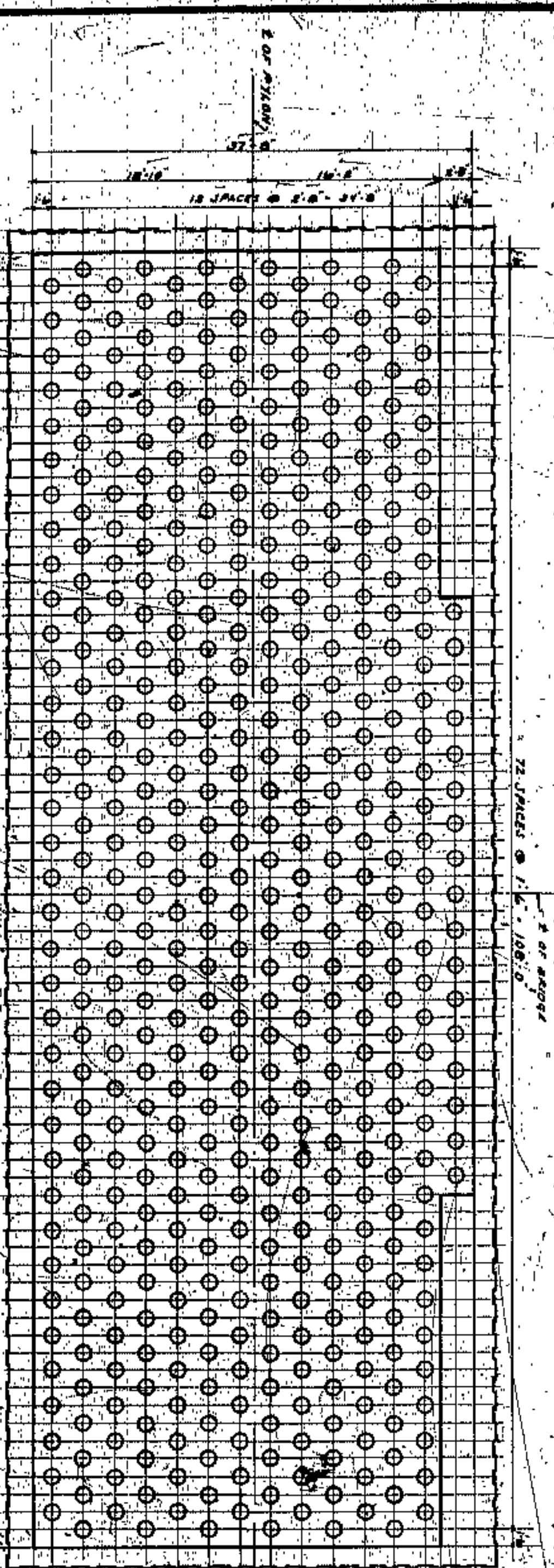


SECTION B-B  
SCALE 1/2" = 1'-0"



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

NOTE: SEE DRAWING NO. 13487-10 FOR DETAILS.



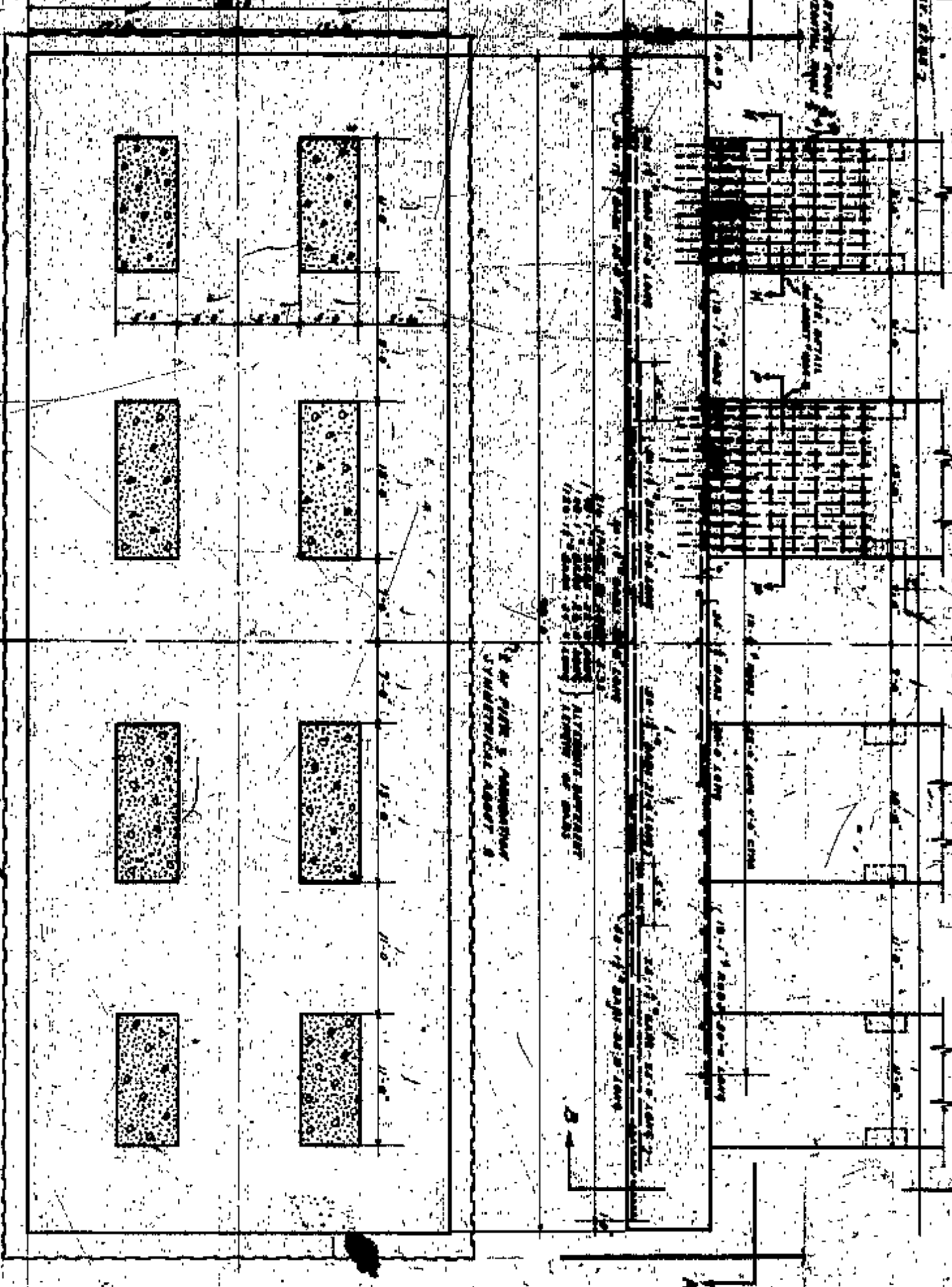
PILE PLAN  
SCALE 1/2" = 1'-0"

APPROVED BY

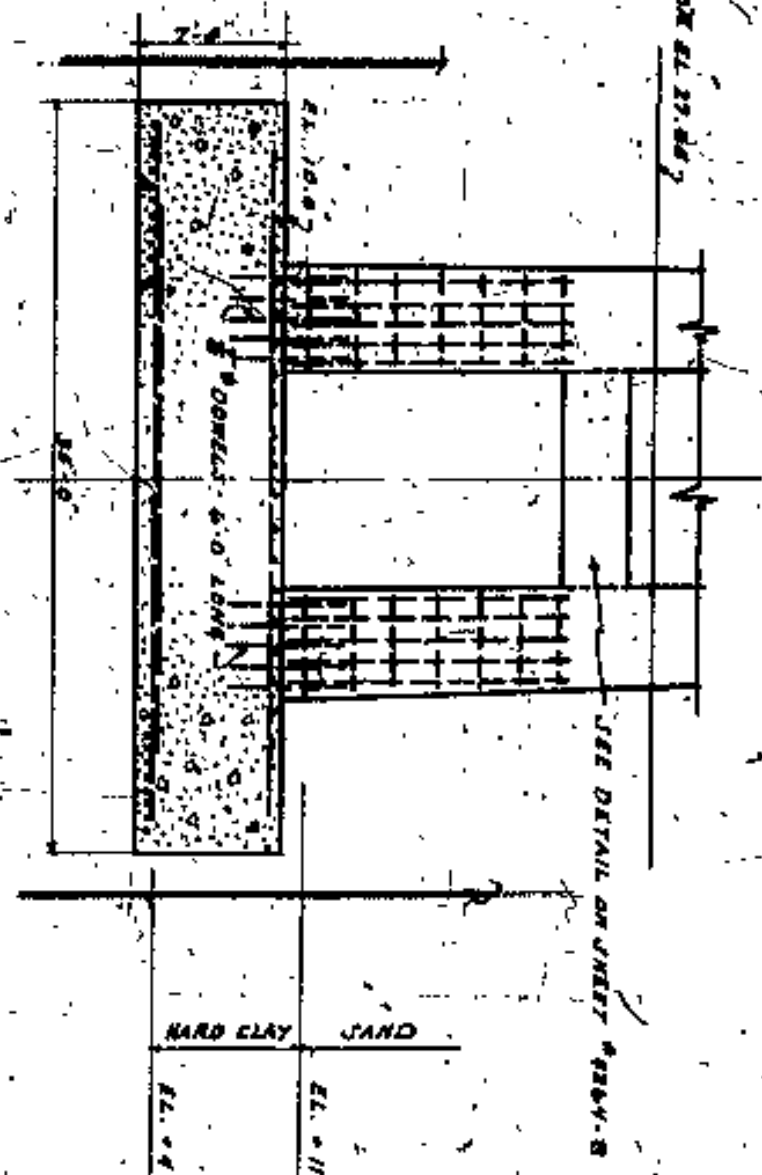
CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SHERIFF  
COUNTY ENGINEER  
COUNTY BRIDGE ENGINEER  
COUNTY CLERK  
COUNTY TREASURER  
COUNTY JUDGE  
COUNTY PROSECUTOR  
COUNTY ATTORNEY  
COUNTY CLERK  
COUNTY TREASURER  
COUNTY JUDGE  
COUNTY PROSECUTOR  
COUNTY ATTORNEY

PROJECT NO.	4364	
DATE	7-28-27	
DESIGNED BY	WILBUR NATHAN AND FRANK WALKER	
CHECKED BY	WILBUR NATHAN AND FRANK WALKER	
DATE	7-28-27	
SCALE	AS SHOWN	
REVISIONS		
NO.	DATE	DESCRIPTION
1	7-28-27	REVISED FOOTING PLAN FOR EAST Pylon
2		
3		
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30		





Reinforcement shown same as on Detail 2544-1 and 2



SEE DETAIL ON SHEET 2544-2

HARD CLAY SAND

APPROVED BY

NOTE: WIDTH OF FOOTING INCREASED TO 45' 0" OF ORIGINAL 40' 0" TO ACCOMMODATE THE 48" INCREASE IN PILING SIZE FOR NEW DESIGN.

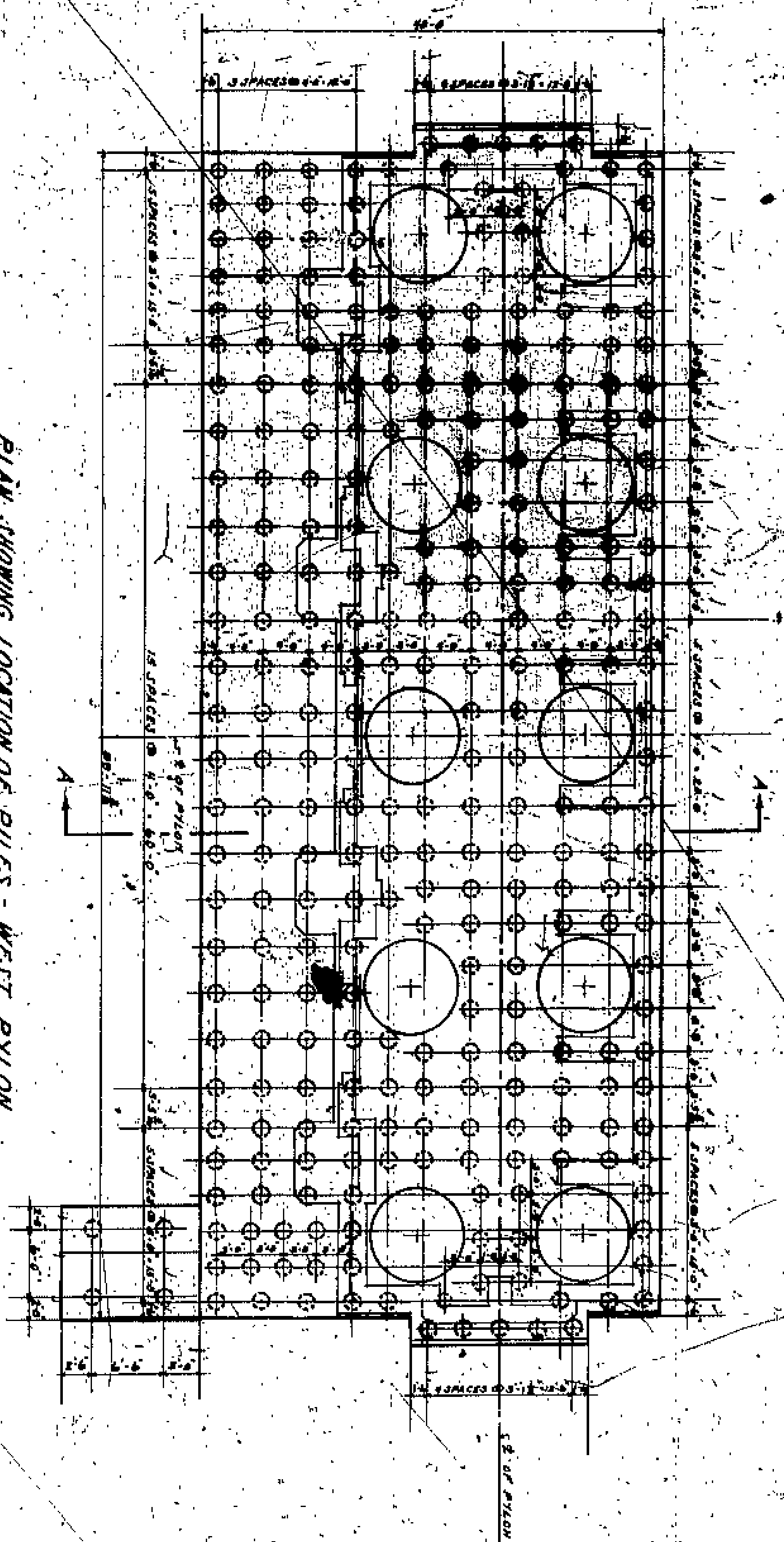
CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SHERIFF  
 COUNTY CLERK  
 COUNTY ENGINEER  
 COUNTY BOARD OF SUPERVISORS  
 COUNTY BOARD OF HEALTH  
 COUNTY BOARD OF EDUCATION  
 COUNTY BOARD OF CHARITIES  
 COUNTY BOARD OF PUBLIC WORKS  
 COUNTY BOARD OF LAND AND NATURAL RESOURCES  
 COUNTY BOARD OF ZONING AND PLANNING  
 COUNTY BOARD OF ECONOMIC DEVELOPMENT  
 COUNTY BOARD OF SENIORS  
 COUNTY BOARD OF VETERANS AFFAIRS  
 COUNTY BOARD OF DEVELOPMENTAL DISABILITIES  
 COUNTY BOARD OF MENTAL HEALTH SERVICES  
 COUNTY BOARD OF ADDICTION SERVICES  
 COUNTY BOARD OF SUBSTANCE ABUSE SERVICES  
 COUNTY BOARD OF COMMUNITY DEVELOPMENT  
 COUNTY BOARD OF HOUSING AND COMMUNITY DEVELOPMENT  
 COUNTY BOARD OF INTERCITY DEVELOPMENT  
 COUNTY BOARD OF REGIONAL DEVELOPMENT  
 COUNTY BOARD OF ECONOMIC DEVELOPMENT  
 COUNTY BOARD OF SENIORS  
 COUNTY BOARD OF VETERANS AFFAIRS  
 COUNTY BOARD OF DEVELOPMENTAL DISABILITIES  
 COUNTY BOARD OF MENTAL HEALTH SERVICES  
 COUNTY BOARD OF ADDICTION SERVICES  
 COUNTY BOARD OF SUBSTANCE ABUSE SERVICES  
 COUNTY BOARD OF COMMUNITY DEVELOPMENT  
 COUNTY BOARD OF HOUSING AND COMMUNITY DEVELOPMENT  
 COUNTY BOARD OF INTERCITY DEVELOPMENT  
 COUNTY BOARD OF REGIONAL DEVELOPMENT  
 COUNTY BOARD OF ECONOMIC DEVELOPMENT

CHANGE IN FOOTING FOR PIER #12

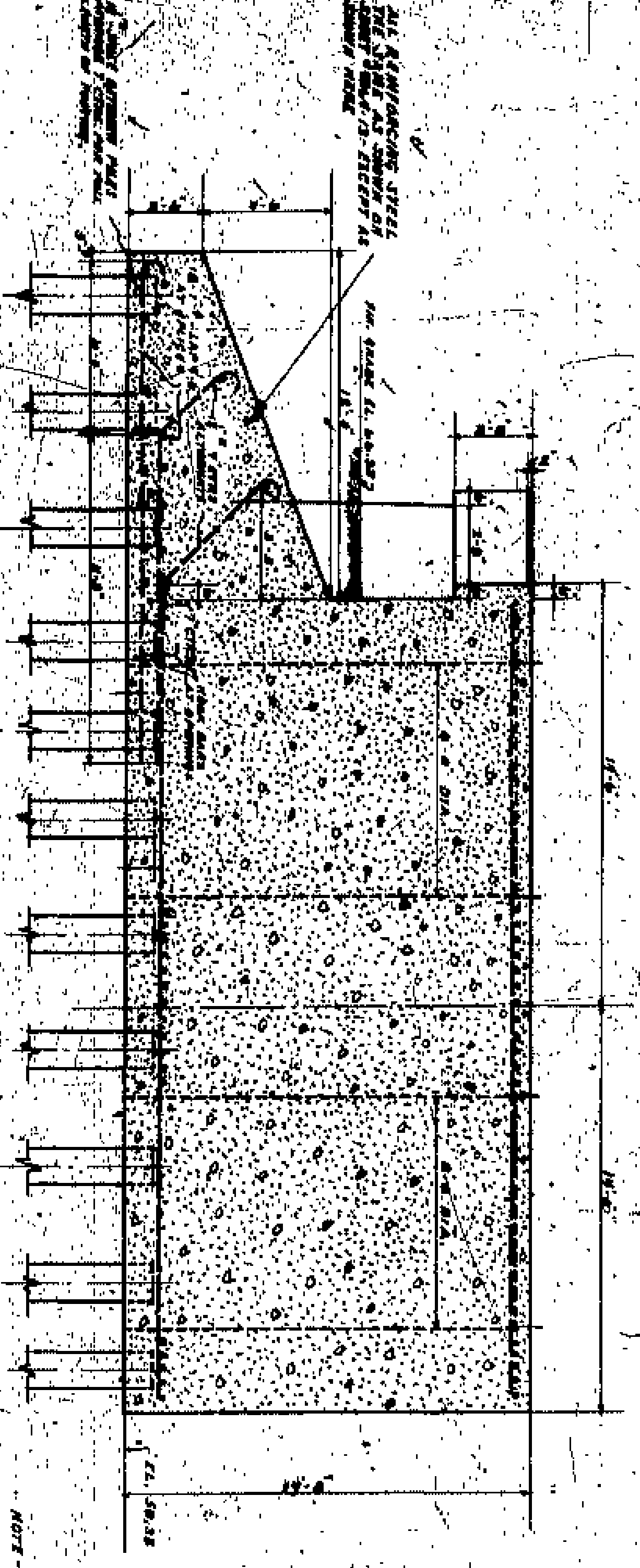
WILBUR MATSON AND F. R. WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

DATE	3-27-64	SCALE	1/2"
PROJECT	CHANGE IN FOOTING FOR PIER #12	NO. OF SHEETS	28
DRAWN BY	J. F. GORBY	CHECKED BY	J. F. GORBY
DATE	3-27-64	DATE	3-27-64
SCALE	1/2"	SCALE	1/2"





PLAN SHOWING LOCATION OF PILES - WEST PYLON  
 REINFORCING BARS  
 SCALE 1/4" = 1'-0"



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

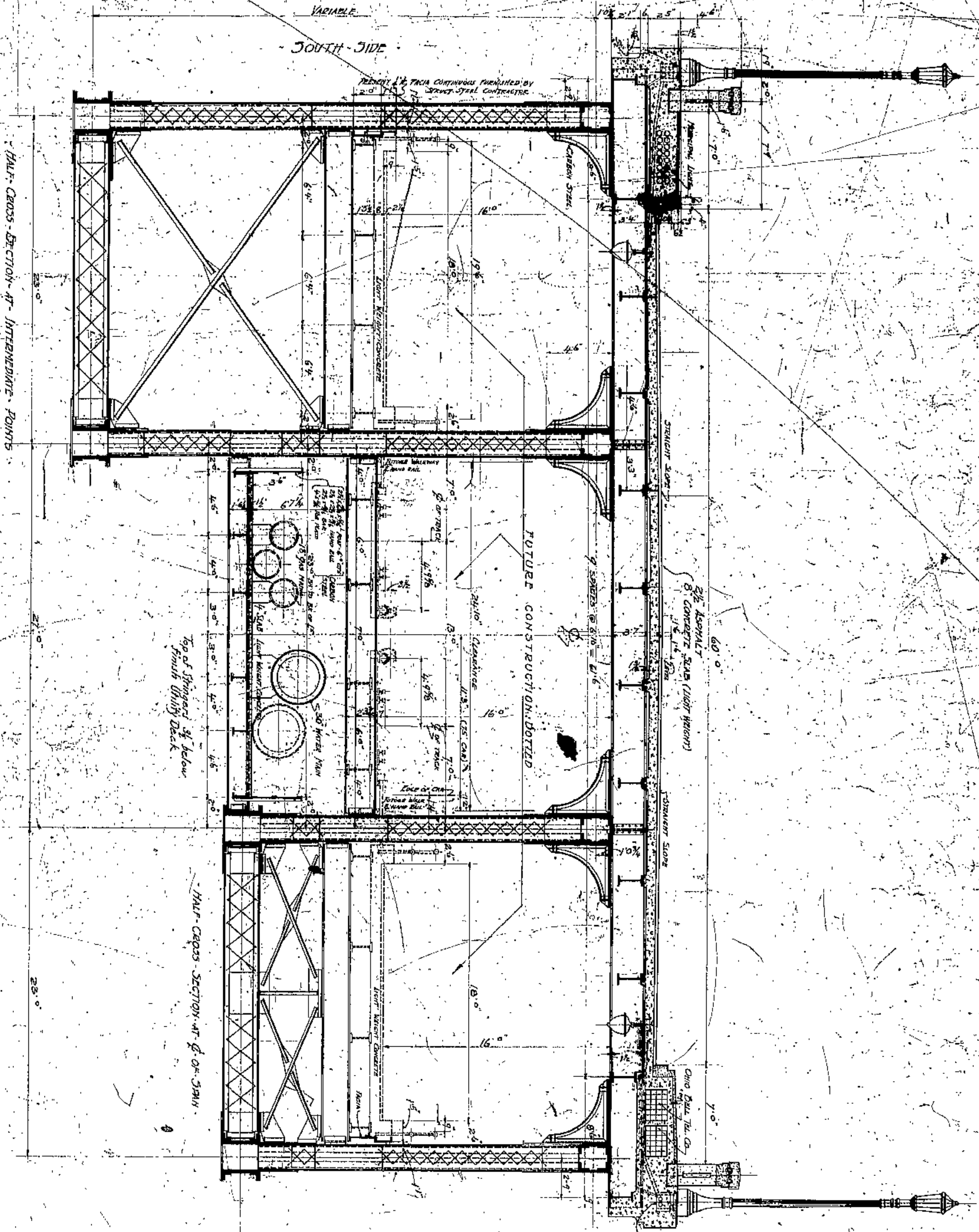
NOTE: THIS DRAWING SUPPLEMENTARY SHEET  
 AND SHEET 43-64-19 & 20 FOR WEST  
 PYLON.

APPROVED BY

CO. COMM. \_\_\_\_\_  
 CO. ADJUTANT \_\_\_\_\_  
 CO. CLERK \_\_\_\_\_  
 ASSISTANT ENGINEER \_\_\_\_\_

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SUPERVISOR
W. E. COOK	F. R. WILLIAMS
J. H. HAGERTS	COUNTY BRIDGE ENGINEER
J. F. COOMAN	A. M. FELGATE
<b>LORAIN CENTRAL BRIDGE</b> CLEVELAND	
PLAN SHOWING PILE SPACING AND DETAIL OF REINFORCING FOR WEST PYLON	
SCALE 1/4" = 1'-0"	
DESIGNED BY	WILBUR WATSON AND F. R. WALKER
CHECKED BY	CONSTRUCTING ENGINEERS AND ARCHITECTS
NO. 4364	CLEVELAND
DATE	29





25° MIN. AT C. OF SPAN

DETAIL & RATE FACIA  
 STEEL FACIA ON THIS CONTRACT AND  
 REFERRED TO SPECIFICATIONS AND PARTS OF TRUSSES

APPROVED BY

*[Signature]*  
*[Signature]*  
*[Signature]*

CE  
 COMM.  
 CE  
 AUDITOR  
 CE  
 ARCHT.  
 CE  
 ENG.

CUYAHOGA COUNTY

BOARD OF COMMISSIONERS

COUNTY SHERIFF

J. R. ZIMMUT

J. H. HARELL

M. E. COOK

COUNTY BRIDGE ENGINEER

A. M. FELGATE

**LORAIN CENTRAL BRIDGE**  
 CLEVELAND

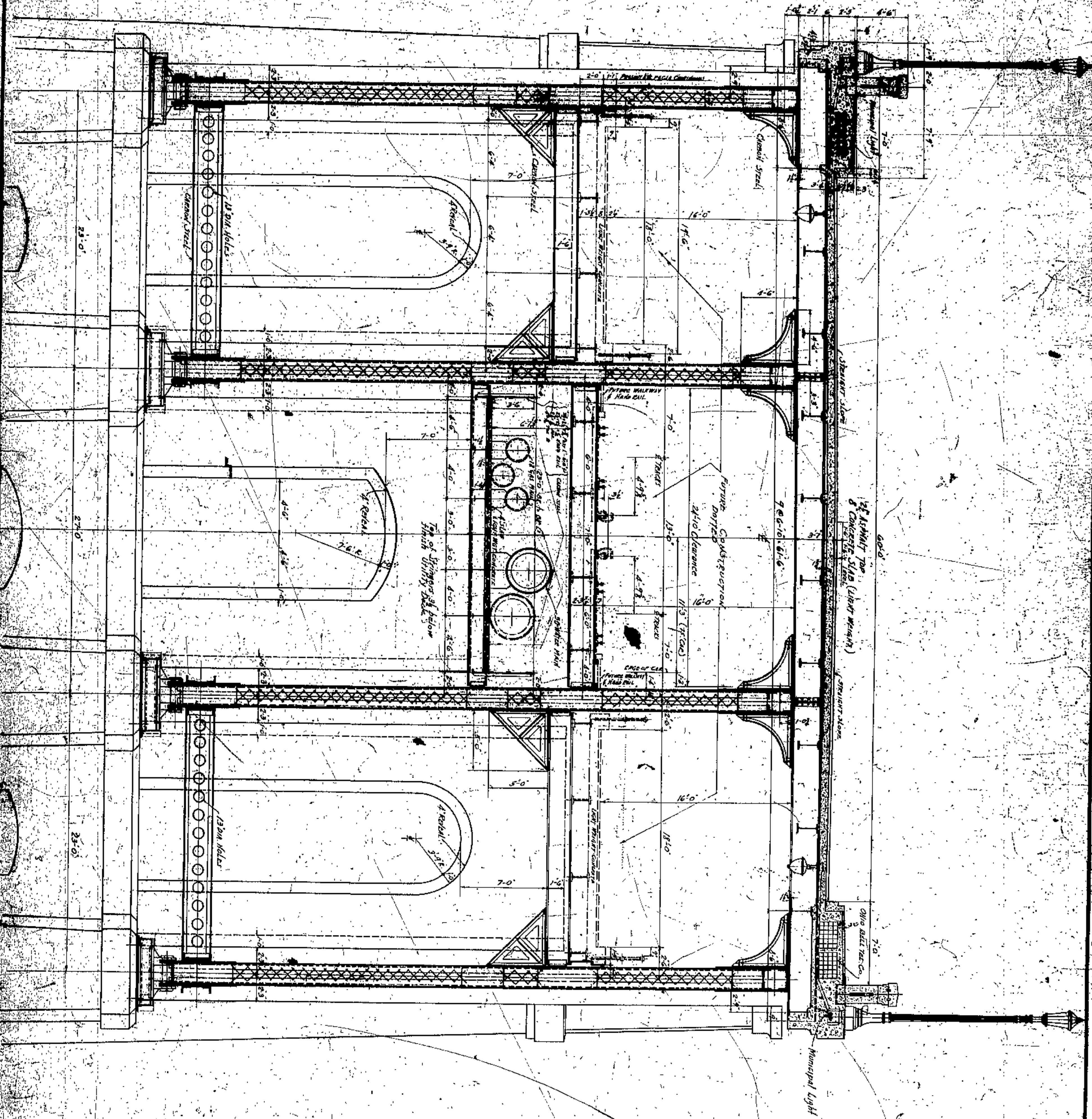
SCALE: TYPICAL CROSS SECTION

WILBUR WATSON AND F. R. WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

NO.	DATE	REVISION	BY	FOR
1	10-1-23	ISSUED BY CONTRACTOR	W. W.	CONTRACTOR
2	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR
3	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR
4	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR
5	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR
6	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR
7	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR
8	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR
9	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR
10	10-1-23	REVISED BY CONTRACTOR	W. W.	CONTRACTOR



SOUTH SIDE



APPROVED BY

*W. E. Cook*  
 W. E. COOK  
 COUNTY ENGINEER  
 CUYAHOGA COUNTY  
 CLEVELAND

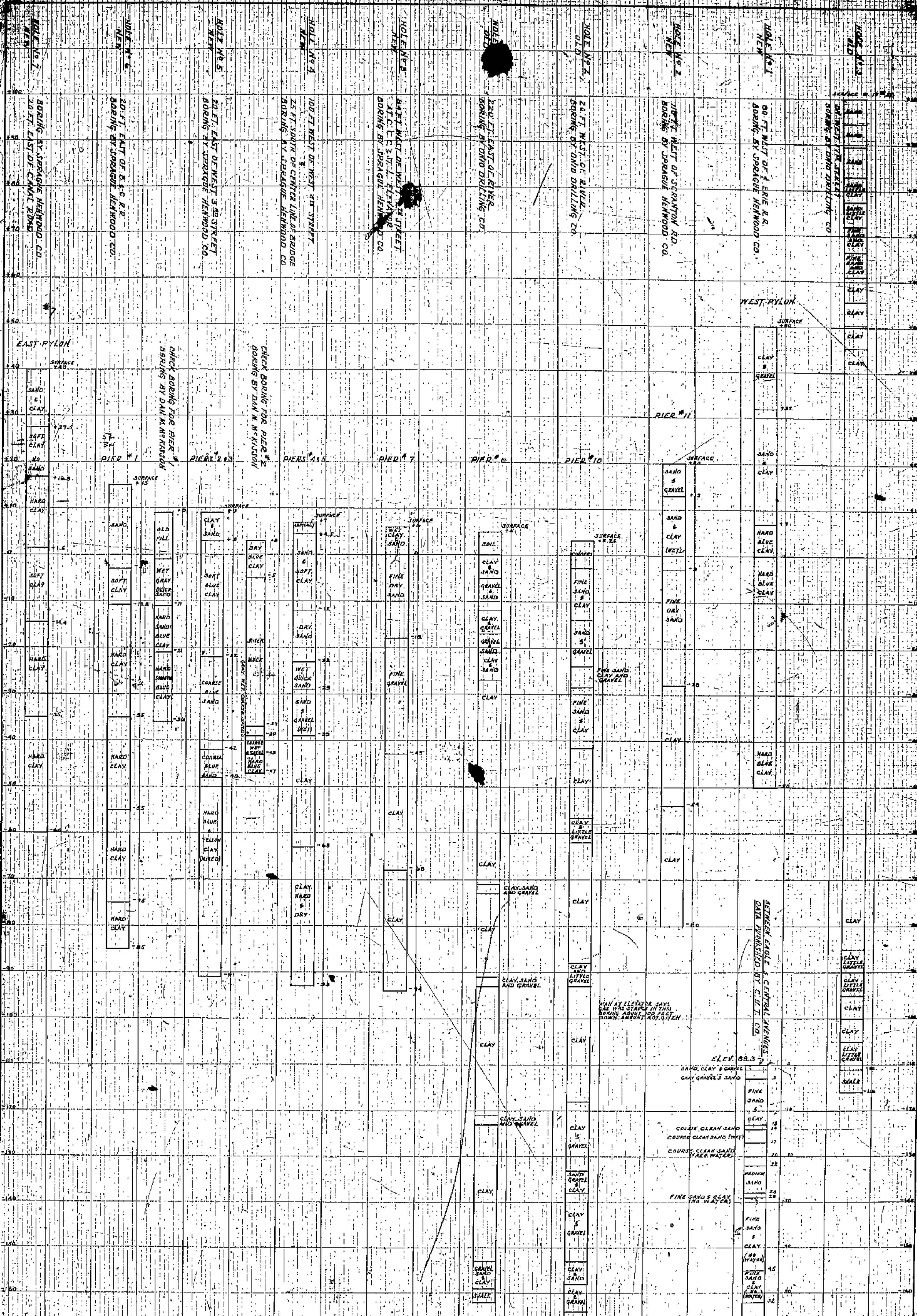
COMMISSIONERS  
 BOARD OF COMMISSIONERS  
 CUYAHOGA COUNTY  
 CLEVELAND

LORAIN CENTRAL BRIDGE  
 CLEVELAND

TYPICAL CROSS SECTION AT PIERS

DATE	1-1-1917	BY	W. E. COOK
NO.	1237	PROJECT	LORAIN CENTRAL BRIDGE
DESIGNED BY	J. H. HARRIS	CHECKED BY	W. E. COOK
SCALE	1" = 10'	DATE	1-1-1917





STRENGTH TABLE & CENTRAL VALUES  
DATA FURNISHED BY C. L. T. CO.

ELEV. 88.3	SAND, CLAY & GRAVEL	3
	COARSE CLEAN SAND	13
	COURSE CLEAN SAND (MIX)	14
	COURSE CLEAN SAND (FEE. WATER)	17
	MEDIUM SAND	22
	FINE SAND & CLAY (NO WATER)	28
	FINE SAND & CLAY (MIX)	32
	FINE SAND & CLAY (NO WATER)	40
	FINE SAND & CLAY (NO WATER)	45
	FINE SAND & CLAY (NO WATER)	50
	FINE SAND & CLAY (NO WATER)	55
	FINE SAND & CLAY (NO WATER)	60
	FINE SAND & CLAY (NO WATER)	65
	FINE SAND & CLAY (NO WATER)	70
	FINE SAND & CLAY (NO WATER)	75
	FINE SAND & CLAY (NO WATER)	80
	FINE SAND & CLAY (NO WATER)	85
	FINE SAND & CLAY (NO WATER)	90
	FINE SAND & CLAY (NO WATER)	95
	FINE SAND & CLAY (NO WATER)	100

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY ENGINEER  
J. H. HARRIS  
COUNTY BRIDGE ENGINEER  
J. H. HARRIS

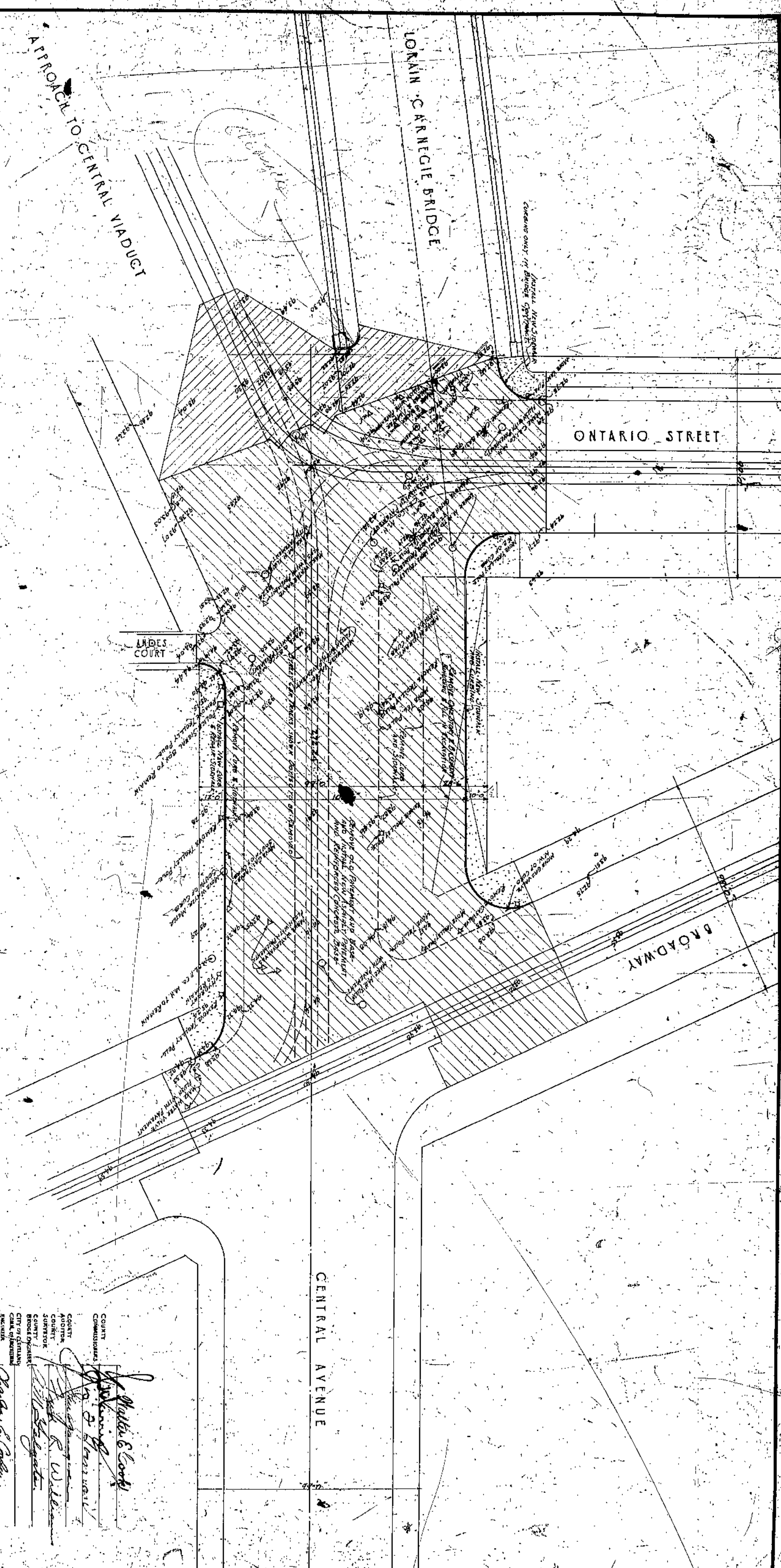
APPROVED BY  
W. S. G. Gable  
J. H. HARRIS

RECORD OF BORINGS  
LORAIN CENTRAL BRIDGE  
NEWLAND

WALTER H. WATSON AND F. R. WALTER  
CONSULTING ENGINEERS AND ARCHITECTS  
CLEVELAND

DATE OF BORING: 1937  
BORING NO.: 1-7  
BORING DEPTH: 100 FT.





APPROACH TO CENTRAL VIADUCT

LORAIN CARNEGIE BRIDGE

ONTARIO STREET

BROADWAY

CENTRAL AVENUE

LADES COURT

BEVER MARK X ON STONE SILL  
EAST DOOR OF NORTH SIDE OF  
FIRE STATION 28 = ELEV 96.73

*Walter S. Cook*  
 COUNTY COMMISSIONERS  
 COUNTY Auditor  
 COUNTY Court  
 COUNTY SHERIFF  
 COUNTY JURY  
 COUNTY Board of Health  
 CITY OF CLEVELAND  
 CITY PLAN COMMISSION

*Walter S. Cook*  
 COUNTY COMMISSIONERS  
 COUNTY Auditor  
 COUNTY Court  
 COUNTY SHERIFF  
 COUNTY JURY  
 COUNTY Board of Health  
 CITY OF CLEVELAND  
 CITY PLAN COMMISSION

*Walter S. Cook*  
 COUNTY COMMISSIONERS  
 COUNTY Auditor  
 COUNTY Court  
 COUNTY SHERIFF  
 COUNTY JURY  
 COUNTY Board of Health  
 CITY OF CLEVELAND  
 CITY PLAN COMMISSION

*Walter S. Cook*  
 COUNTY COMMISSIONERS  
 COUNTY Auditor  
 COUNTY Court  
 COUNTY SHERIFF  
 COUNTY JURY  
 COUNTY Board of Health  
 CITY OF CLEVELAND  
 CITY PLAN COMMISSION

**CUYAHOGA COUNTY**  
**BOARD OF COMMISSIONERS**  
 W. E. COOK  
 I. H. HARRIS  
 I. F. GORMAN

**COUNTY SHERIFF**  
 F. R. WILLIAMS

**COUNTY BRIDGE ENGINEER**  
 A. M. FELGATE

**LORAIN CARNEGIE BRIDGE**  
 CLEVELAND

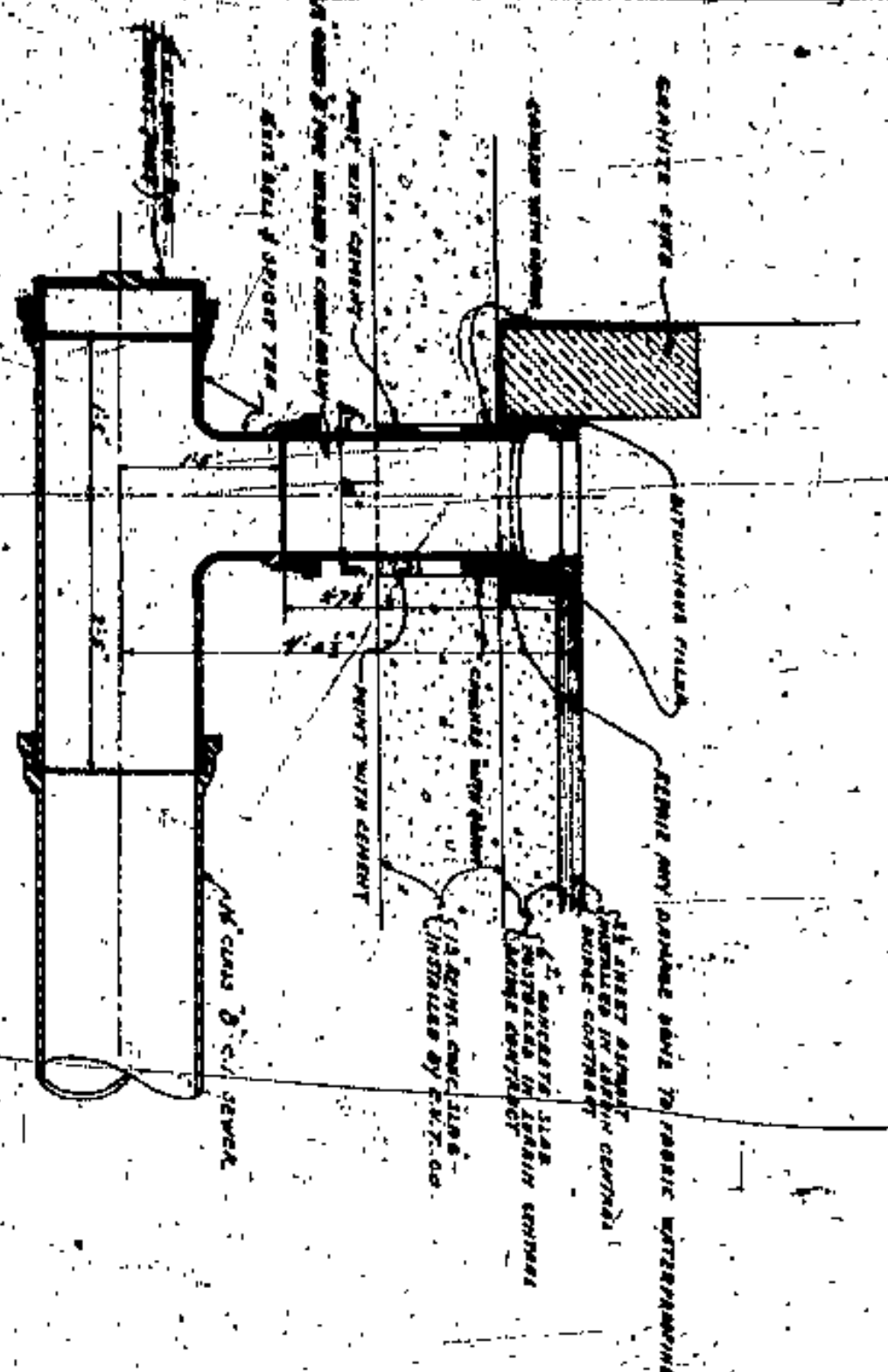
**WIDENING OF CENTRAL AVENUE**  
 EAST APPROACH

SCALE 1" = 20'-0"

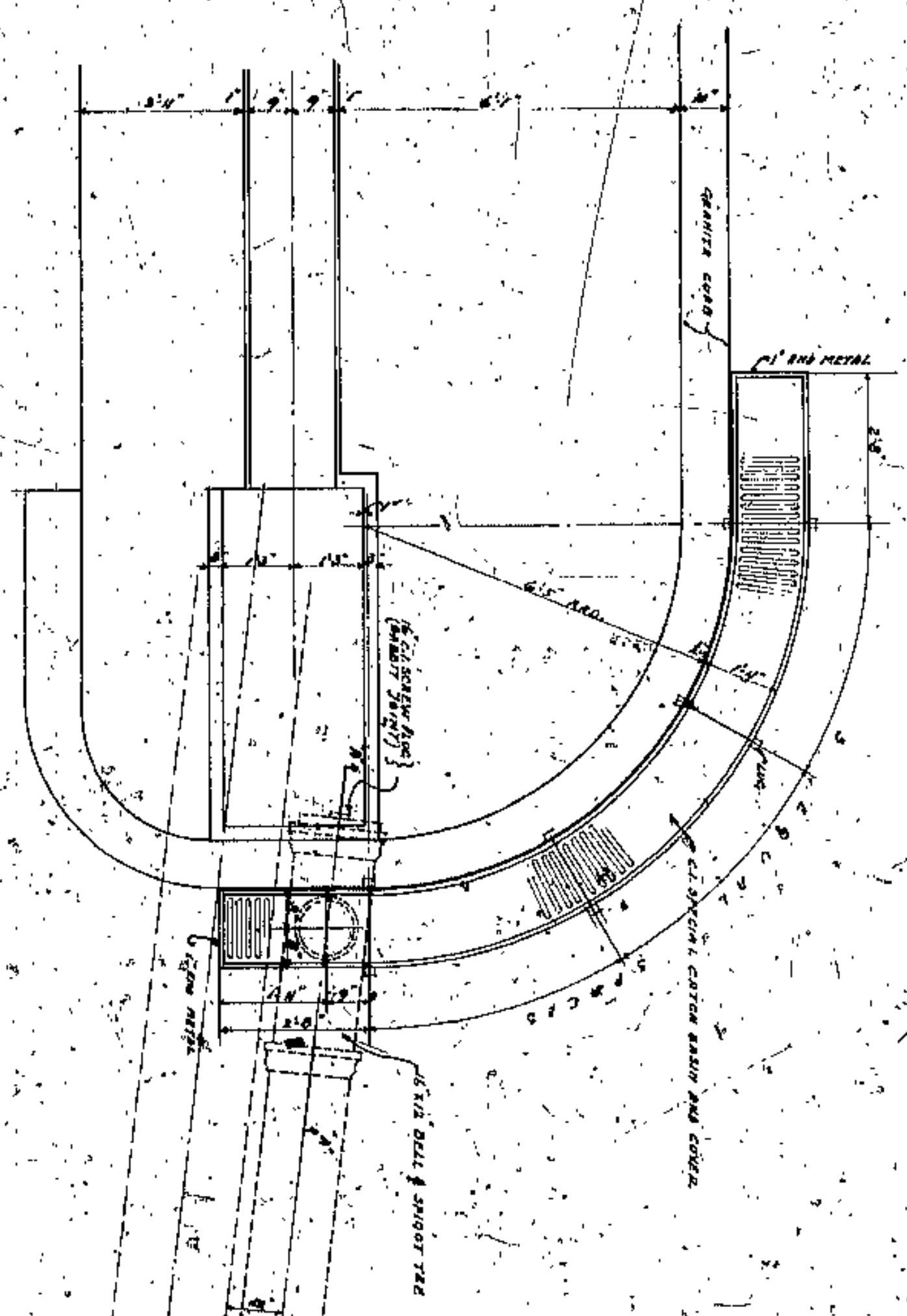
FILE NO. 4367  
 WILLBUR WATSON AND F. R. SWANBERG  
 CONSULTING ENGINEERS - ARCHITECTS  
 CLEVELAND

DATE	BY	CHECKED	DATE
APR 11 1927	C. A. M.	W. S. C.	APR 11 1927
APR 11 1927	C. A. M.	W. S. C.	APR 11 1927
APR 11 1927	C. A. M.	W. S. C.	APR 11 1927

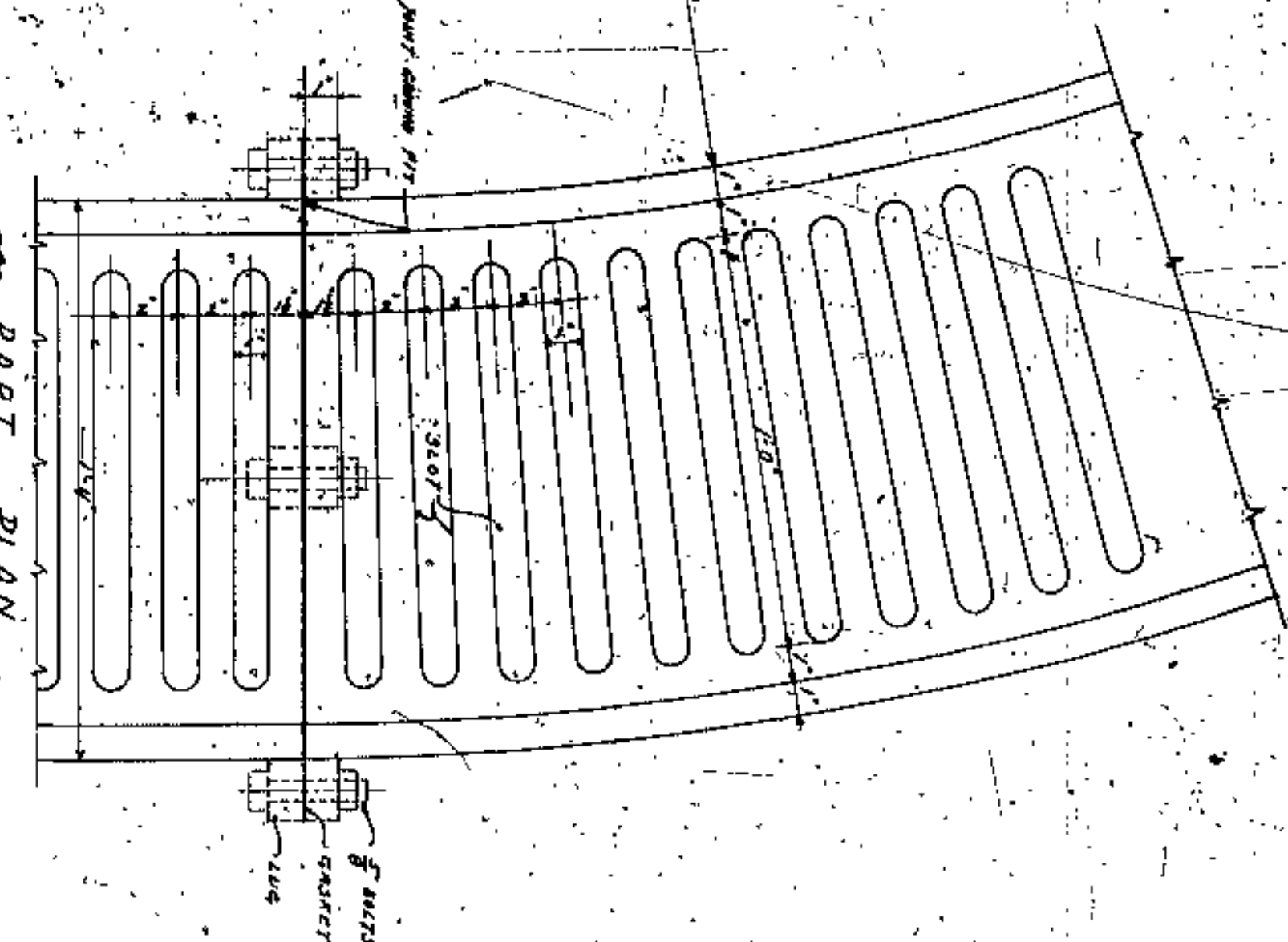




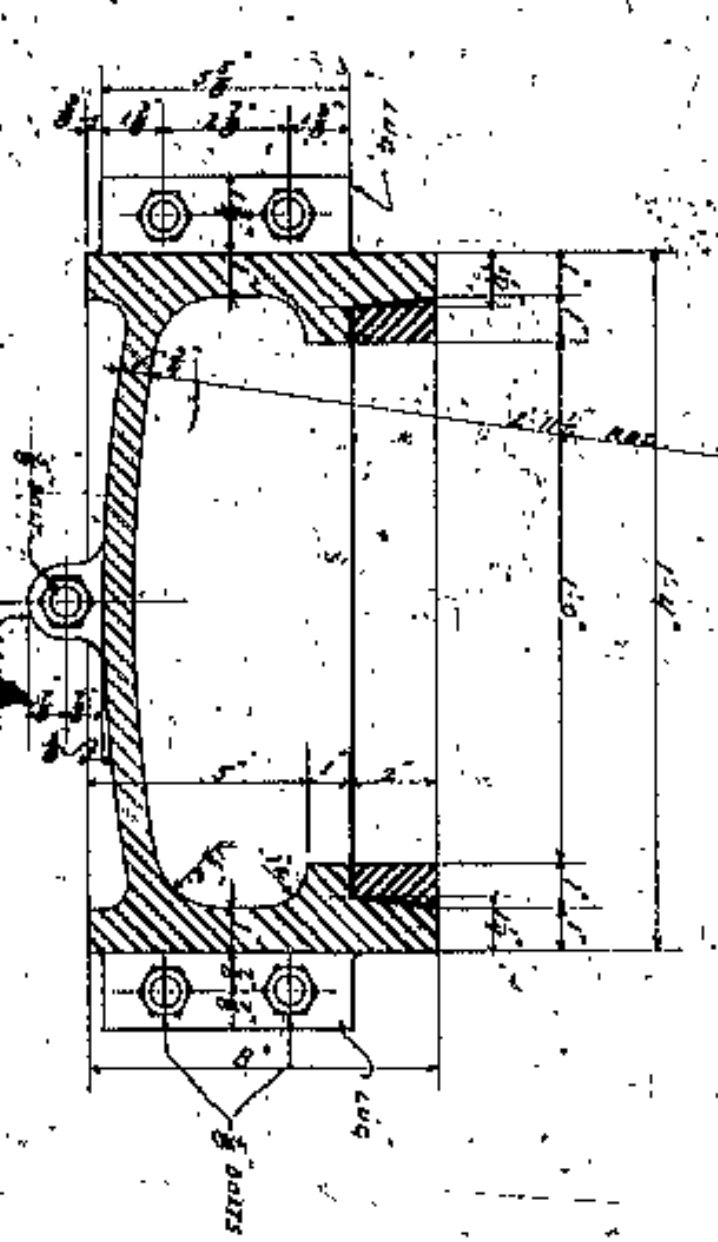
SECTION A-A  
SCALE 3/4"=1'-0"



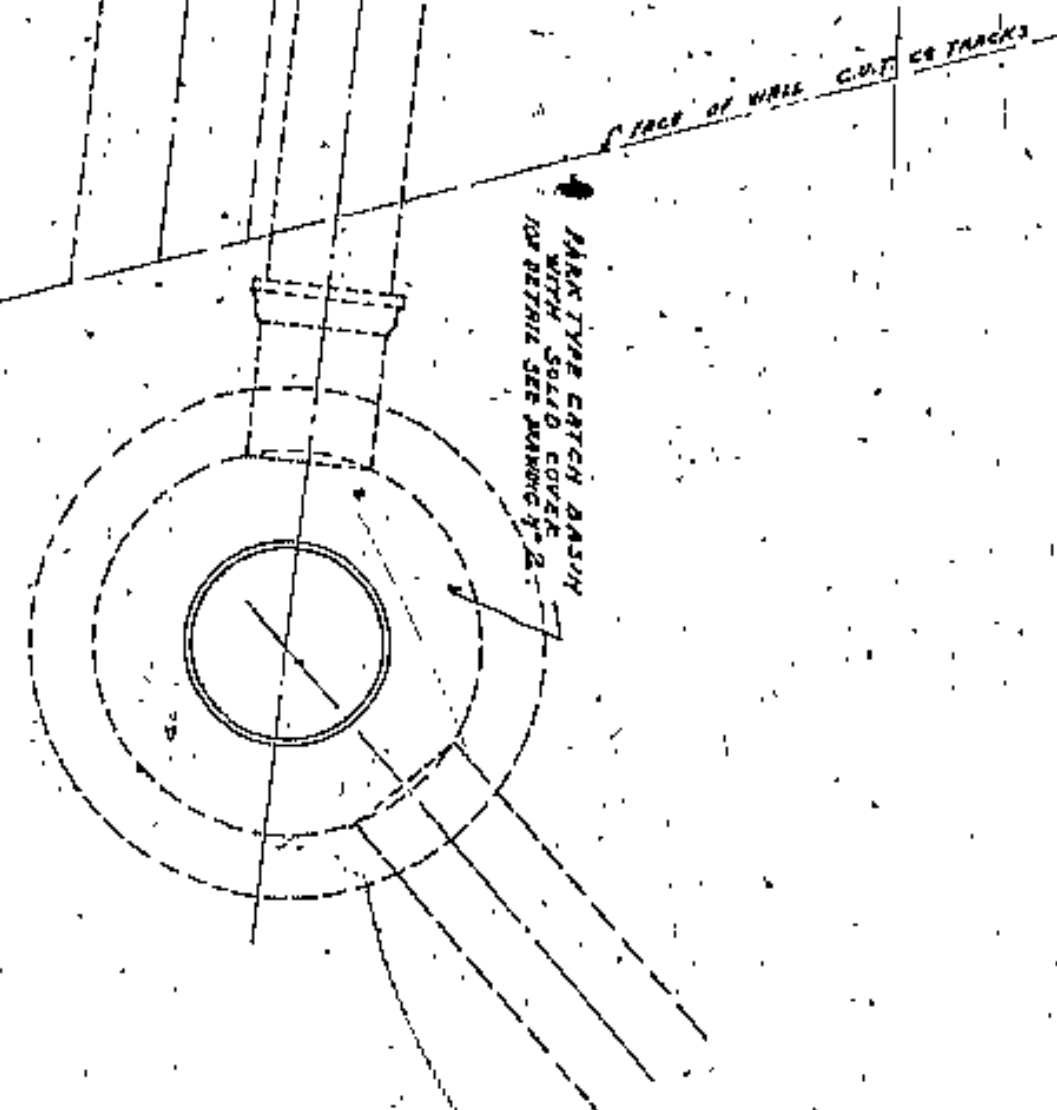
PLAN OF SPECIAL CATCH BASIN & SEWER  
SCALE 3/16"=1'-0"



PART PLAN  
SCALE 3/16"=1'-0"



TYPICAL SECTION THRU  
SPECIAL CATCH BASIN  
AND COVER  
SCALE 3/16"=1'-0"



COUNTY COMMISSIONERS	CUYAHOGA COUNTY
COUNTY SURETYOR	F. R. WILLIAMS
COUNTY BRIDGE ENGINEER	A. M. FELGATE
CITY PLUM WORK	

BOARD OF COMMISSIONERS  
 W. E. COOK  
 J. H. HARRIS  
 J. E. GORMAN

CUYAHOGA COUNTY  
 COUNTY SURETYOR  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. M. FELGATE

LORAIN CARNEGIE BRIDGE  
 CLEVELAND

SPECIAL CATCH BASIN  
 AND DRAINAGE SYSTEM

SCALE 3/16"=1'-0"

FILE NO. 4367  
 WILBUR WATSON AND F. R. WALKER  
 CONSULTING ENGINEERS & ARCHITECTS  
 CLEVELAND

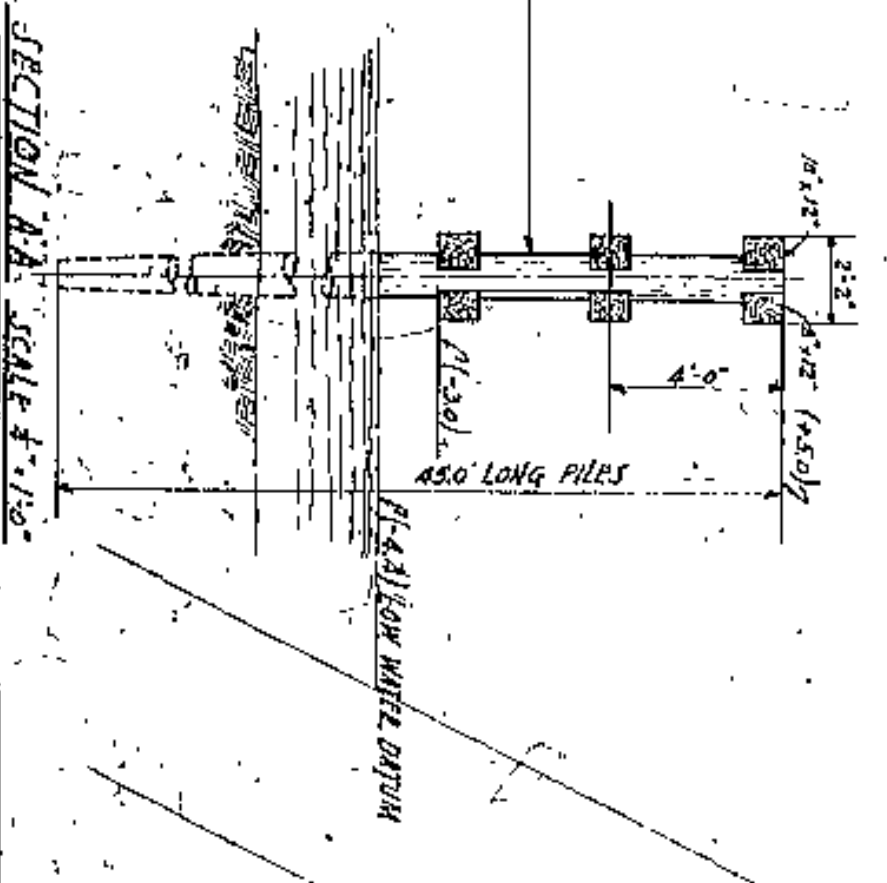
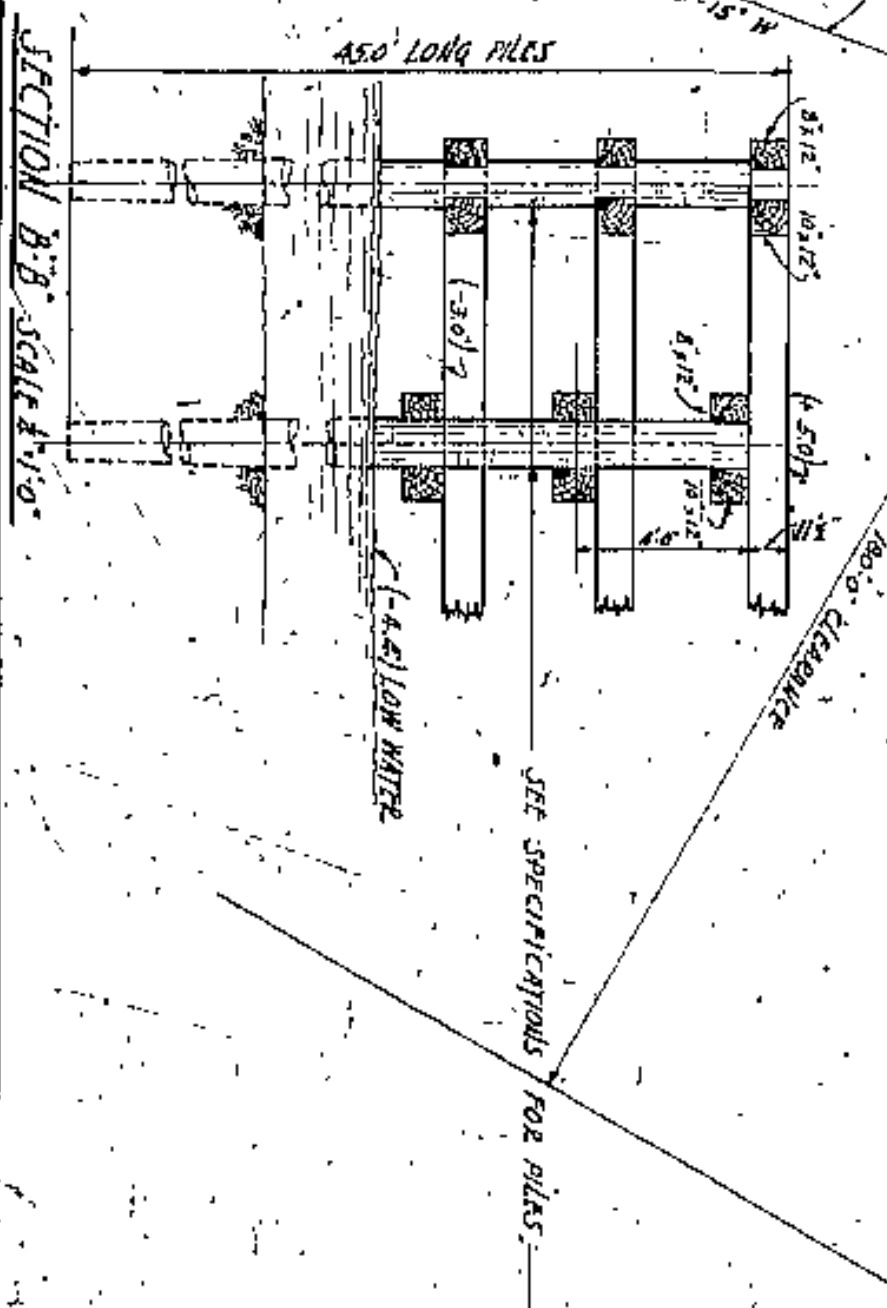
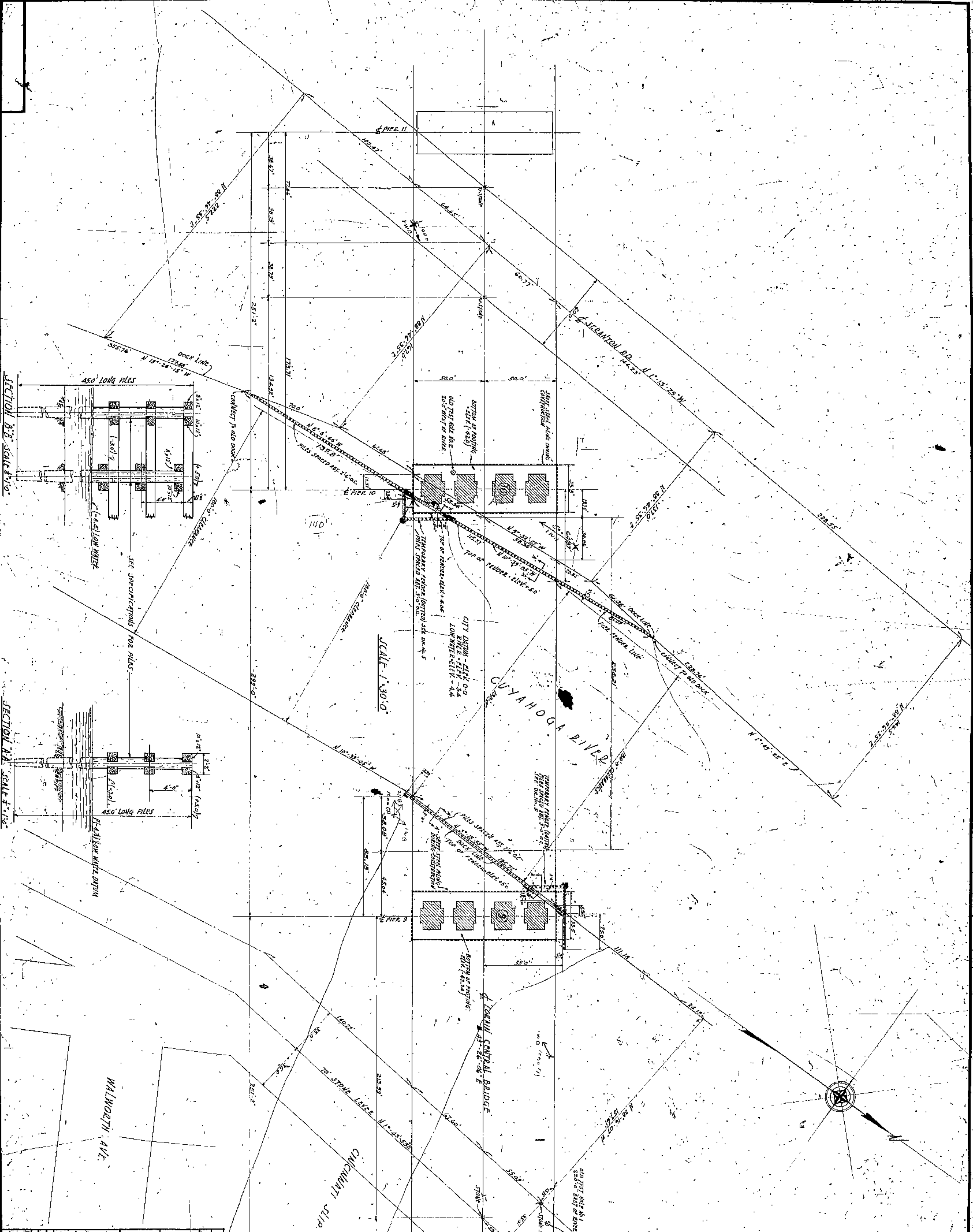
DATE 3

DATE	BY	CHECKED	DATE





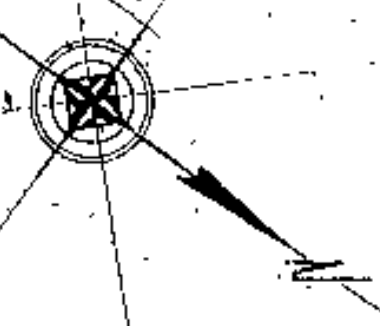
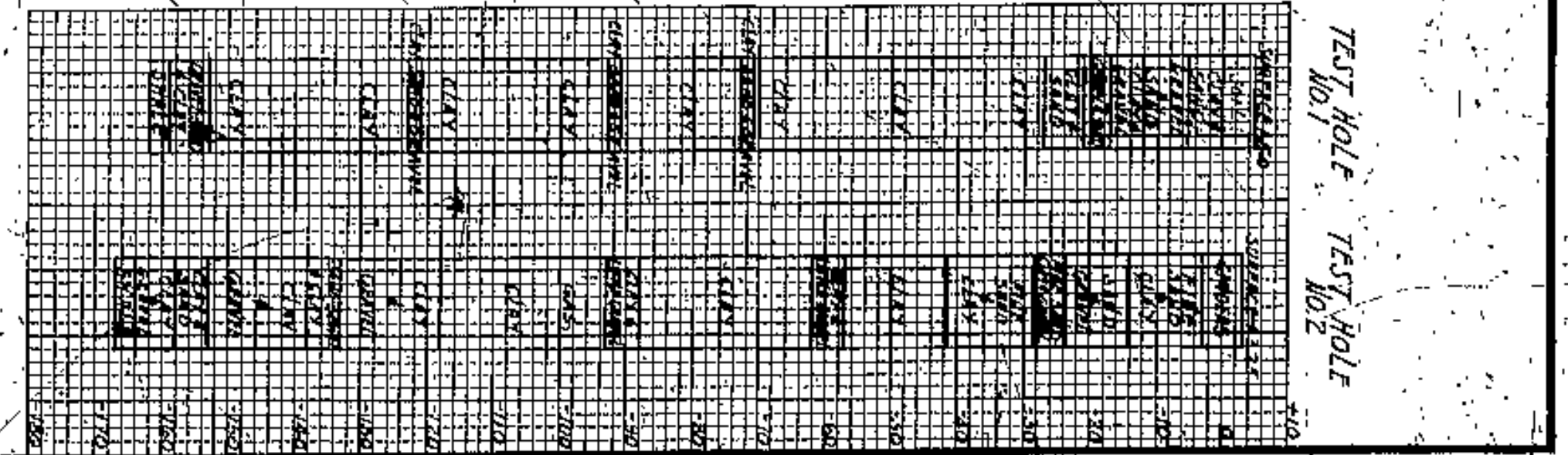




CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SUPERVISOR
J. D. ZIMMUT	F. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. E. COOK	AM. FELICAT
<b>LORAIN CENTRAL BRIDGE</b>	
PLAN AND PERMANENT RIVER FENDERS	
AND LOCATION OF PILES, AUG 9, 1910	
SCALE 1"=30' 1"=30' 1"=10'	
WILBUR WATSON AND F. D. WALNELL	
CONSULTING ENGINEERS AND ARCHITECTS	
CLEVELAND	
DATE	APPROVED BY
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
IN CHARGE	DATE

APPROVED BY  
*[Signature]*  
 CIVIL ENGINEER

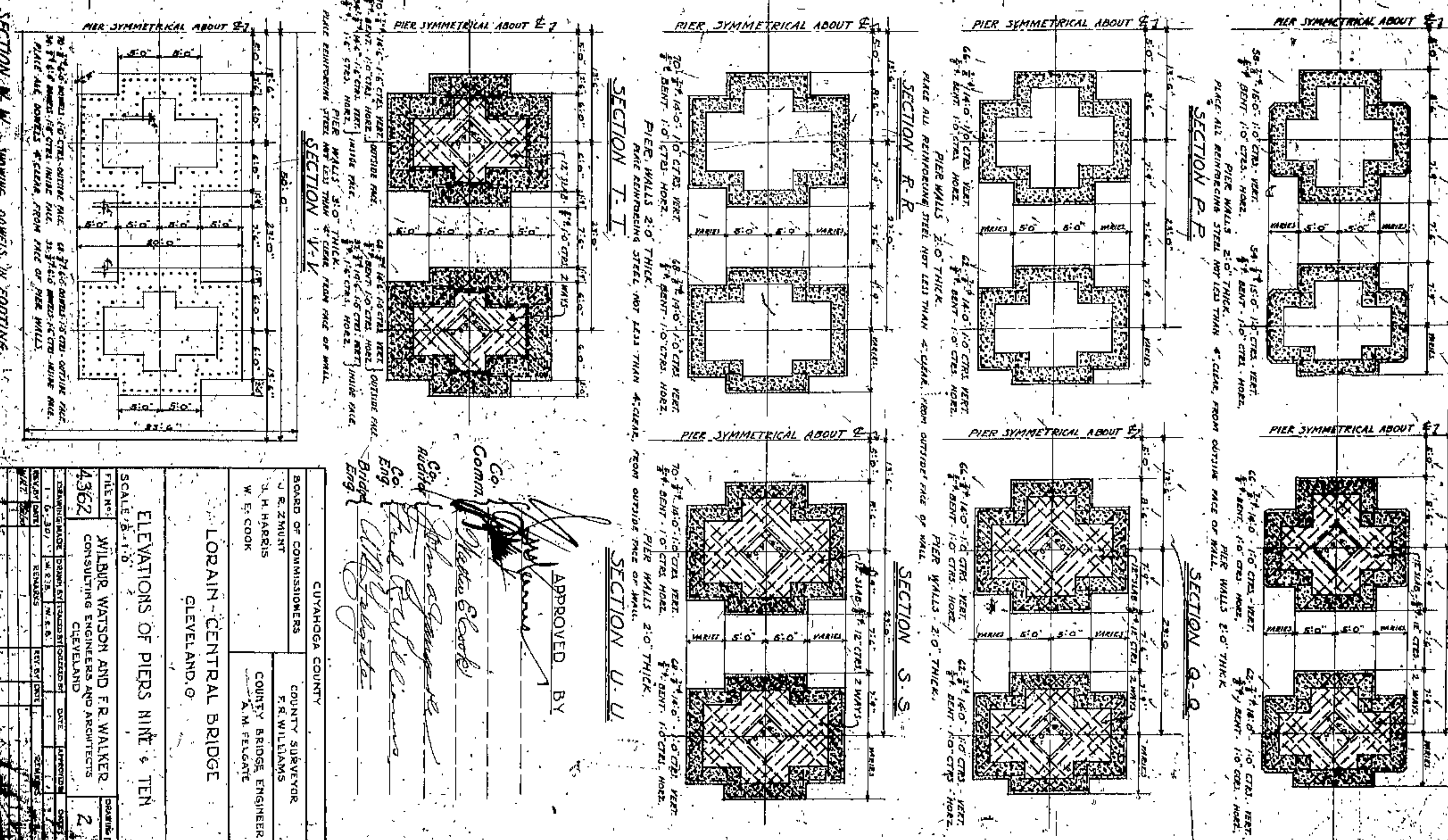
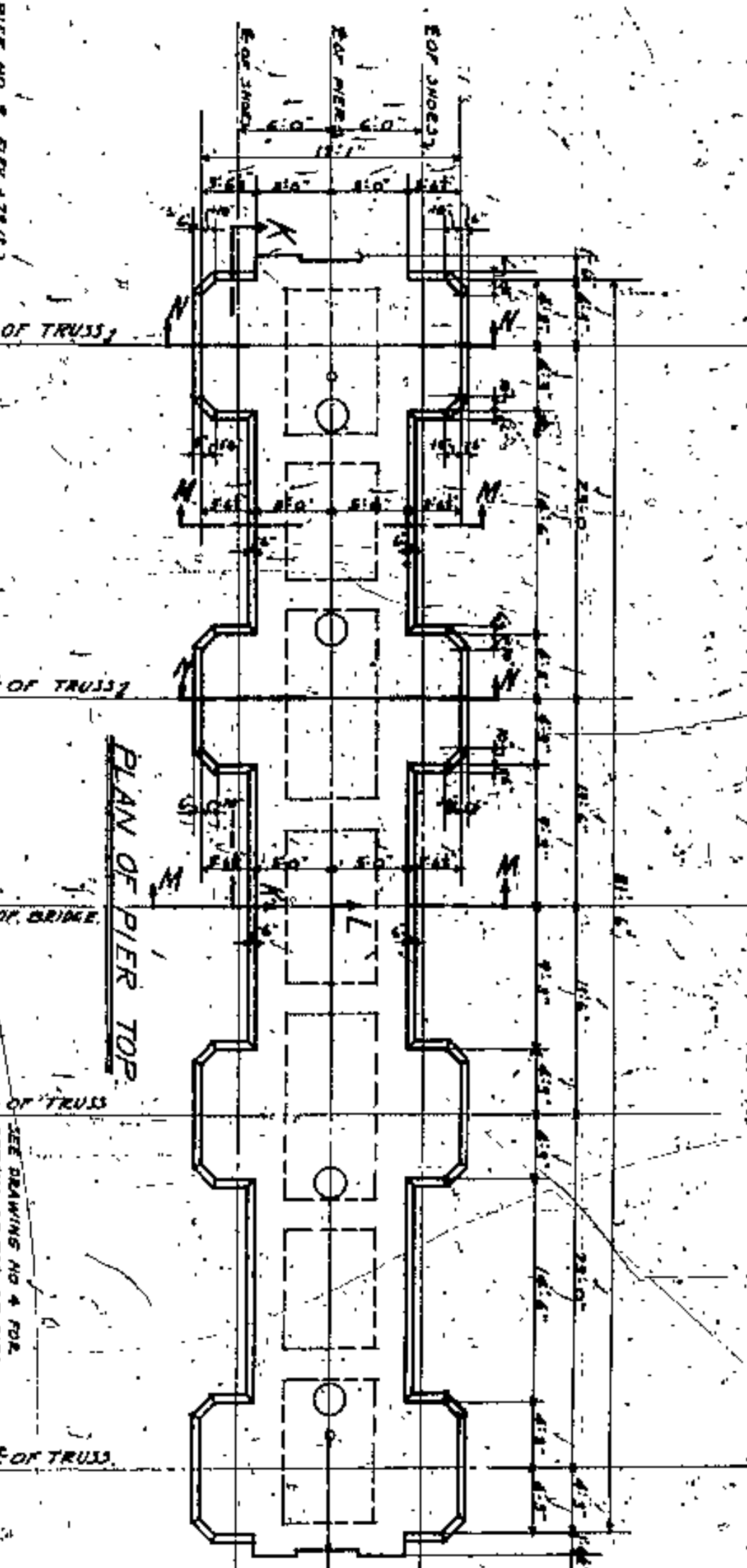
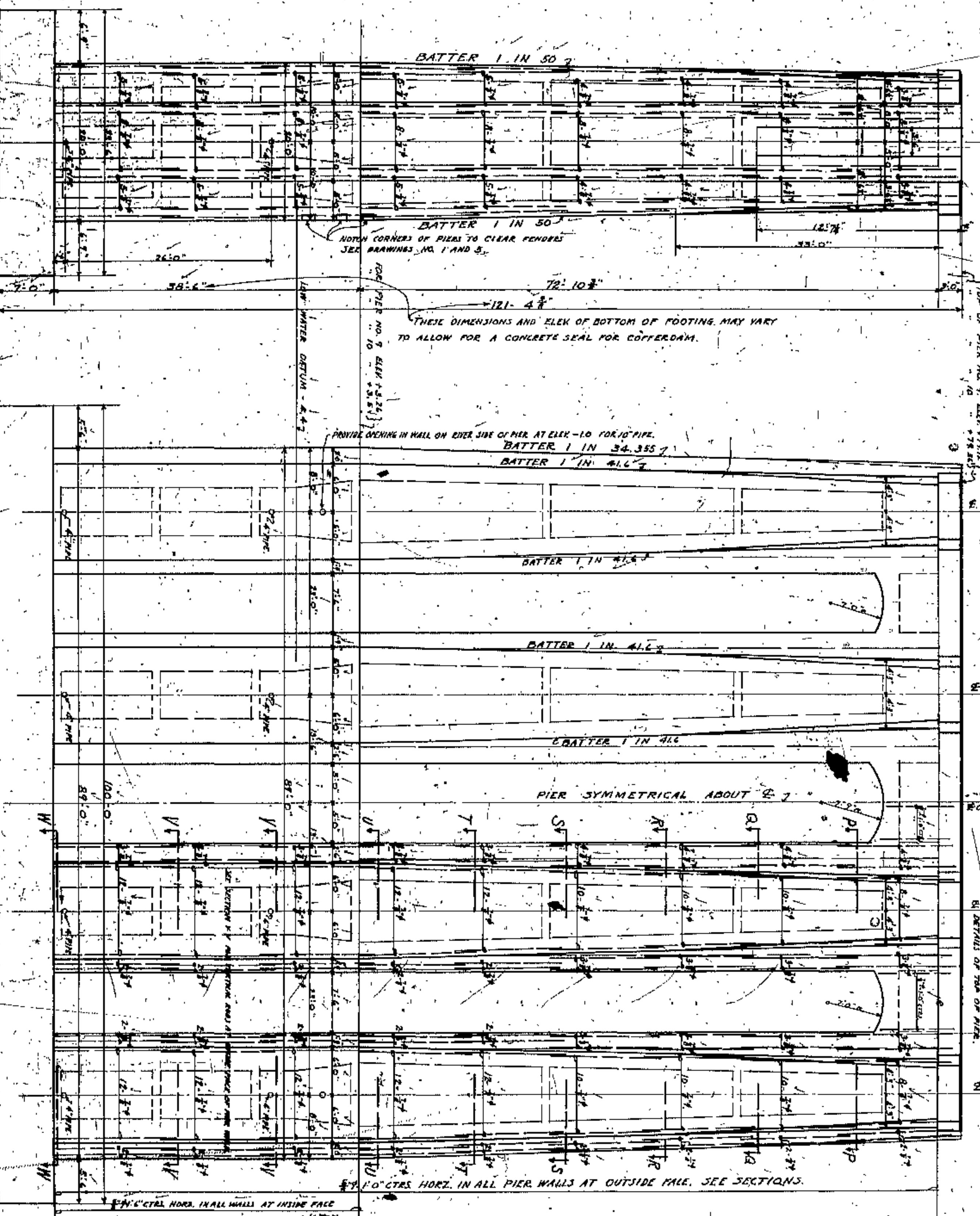
WILBUR WATSON  
 F. D. WALNELL  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND





END ELEVATION

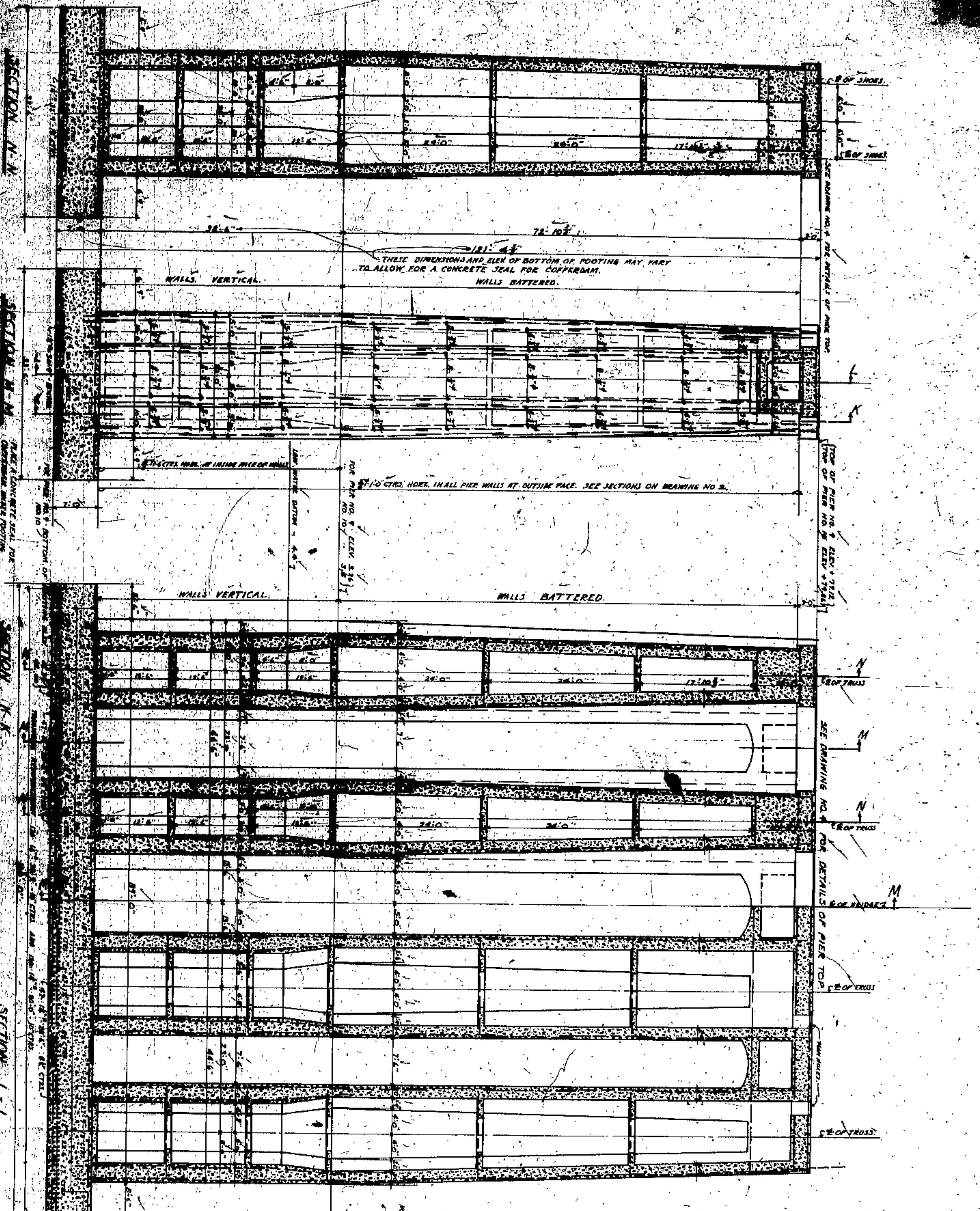
SIDE ELEVATION OF PIERS NO. 9 AND 10



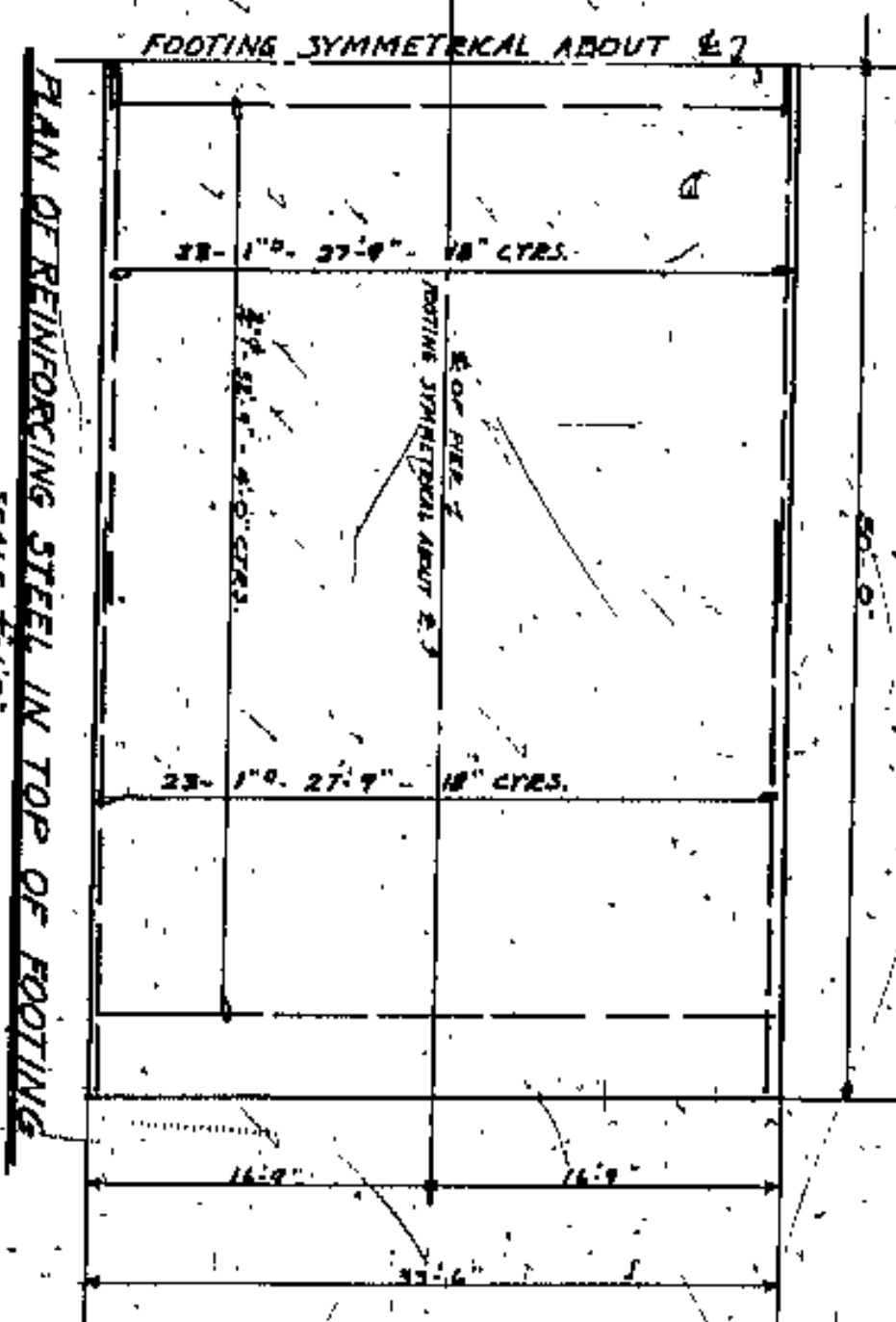
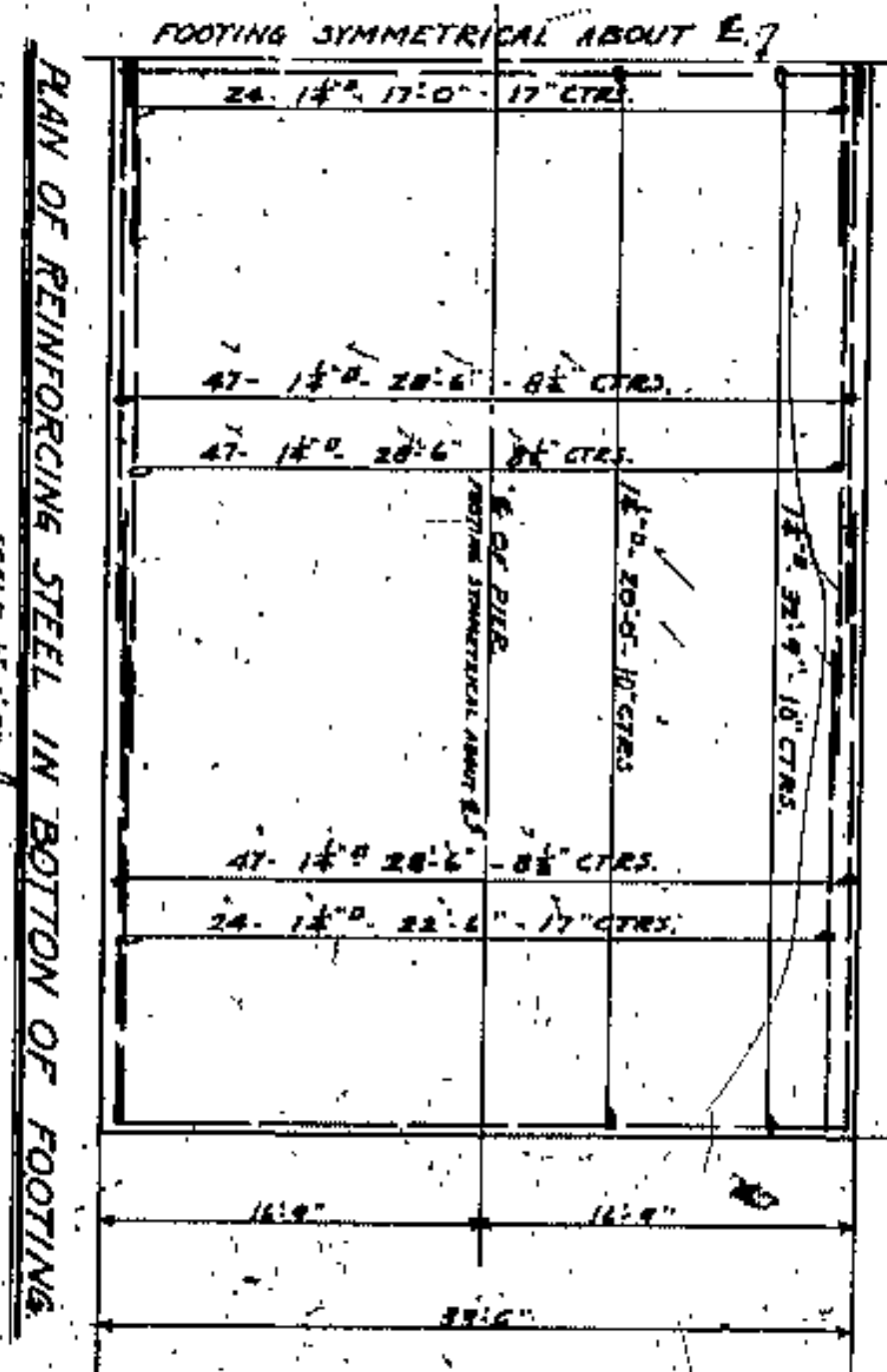
SECTION N-N SHOWING DETAILS IN FOOTING

APPROVED BY  
 [Signature]  
 COMM. CIVIL ENGINEER  
 CUYAHOGA COUNTY  
 COUNTY SURVEYOR  
 R. H. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK  
 WILBUR WATSON AND F. R. WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND  
 ELEVATIONS OF PIERS NINT & TEN  
 SCALE 1/4" = 1'-0"  
 4362  
 2





NOTES:  
 1. MAKE ALL REINFORCEMENT STEEL NOT LESS THAN #7 CLEAR FROM THE FACE OF THE CONCRETE.  
 2. LAPS 18" MINIMUM FOR #4-#6 AND 45" MINIMUM FOR DEFORMED BARS THROUGHOUT.



APPROVED BY

CO. Comm. *[Signature]*

CO. Eng. *[Signature]*

CO. Bridge Eng. *[Signature]*

CUVAHOGA COUNTY

BOARD OF COMMISSIONERS

COUNTY SURVEYOR  
 J. R. ZIMMERT

COUNTY BRIDGE ENGINEER  
 A. M. FELGATE

W. E. COOK

SECTION 3 OF PIER-NINE & TEN

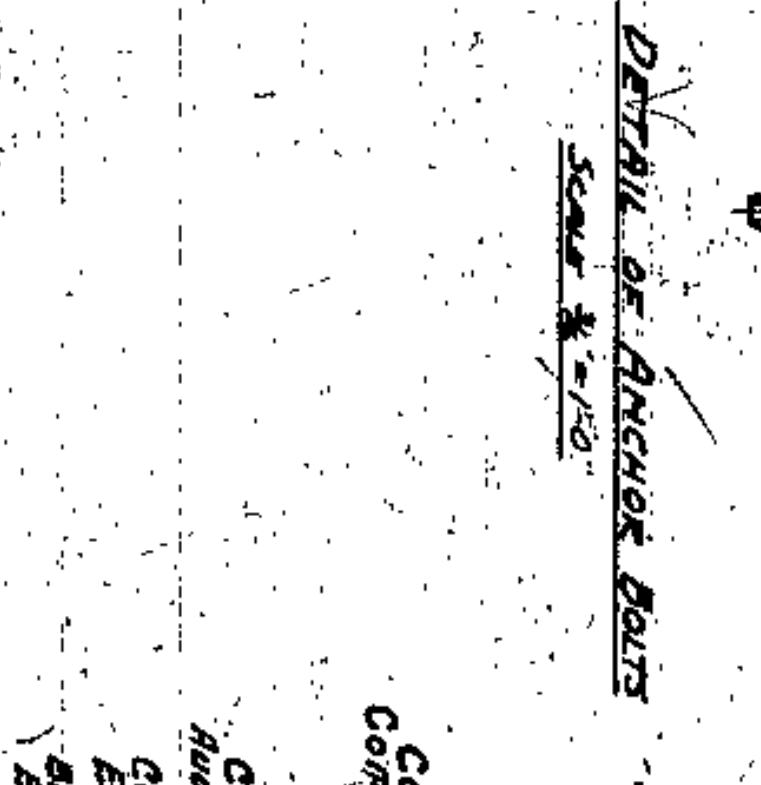
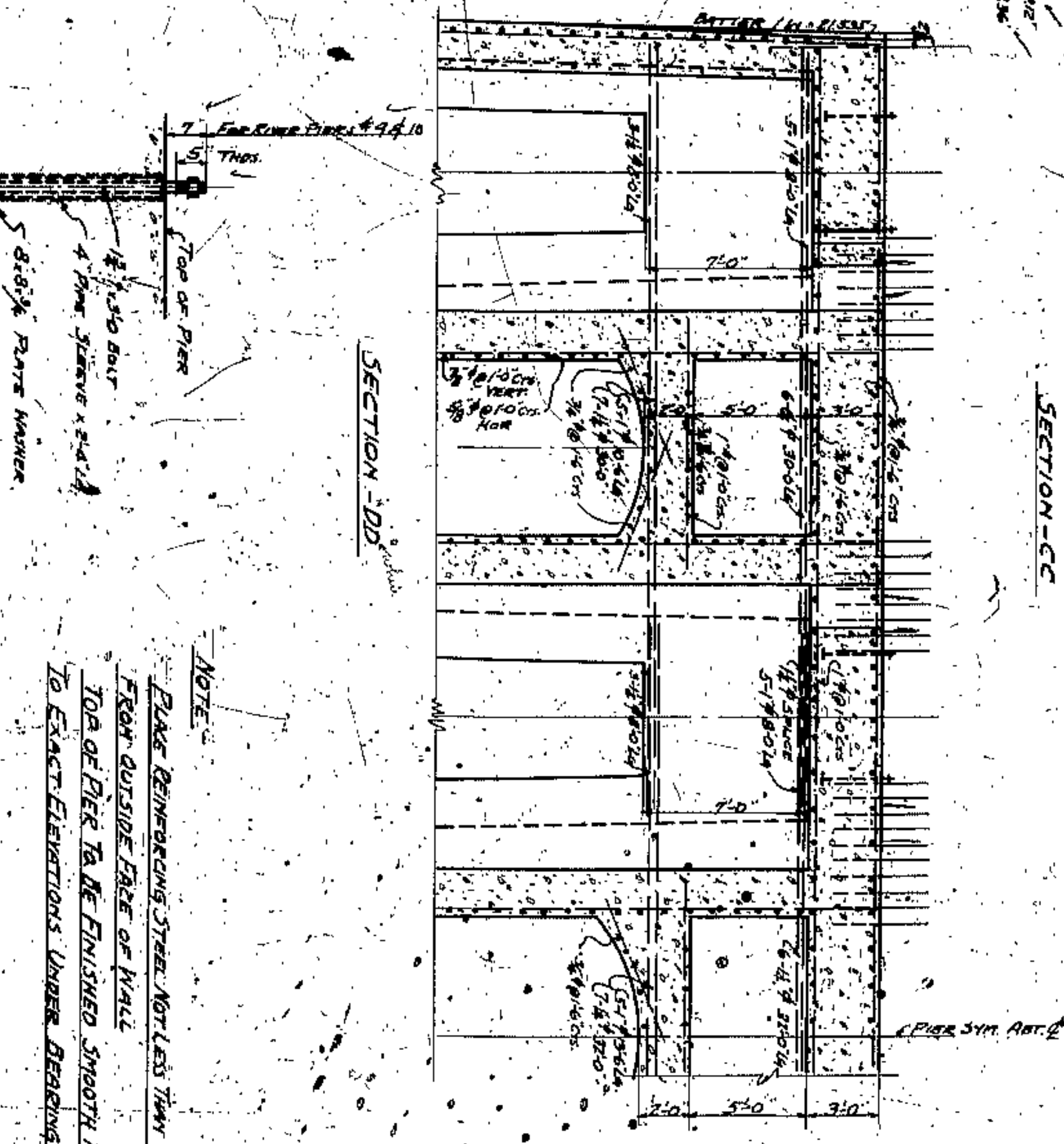
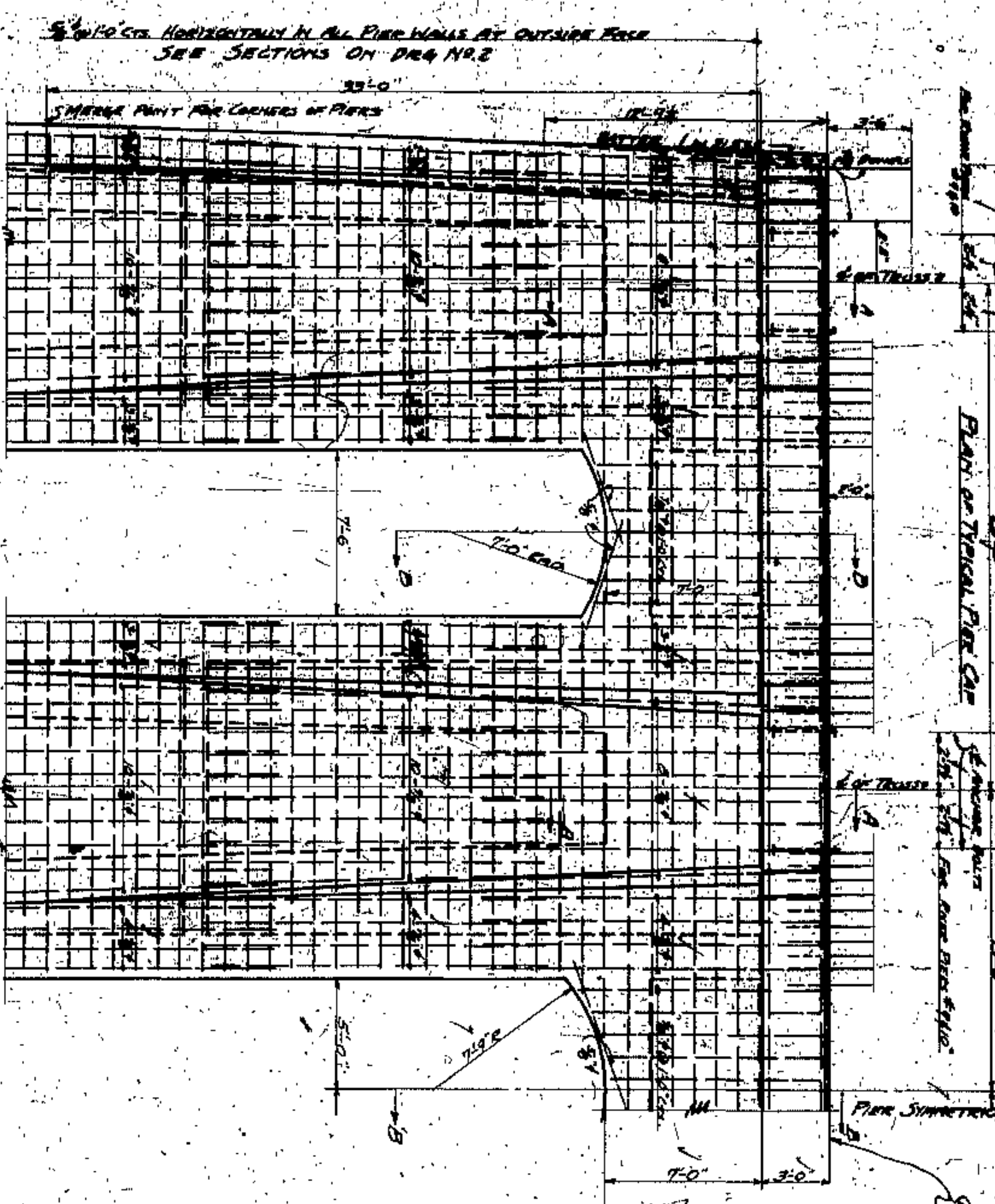
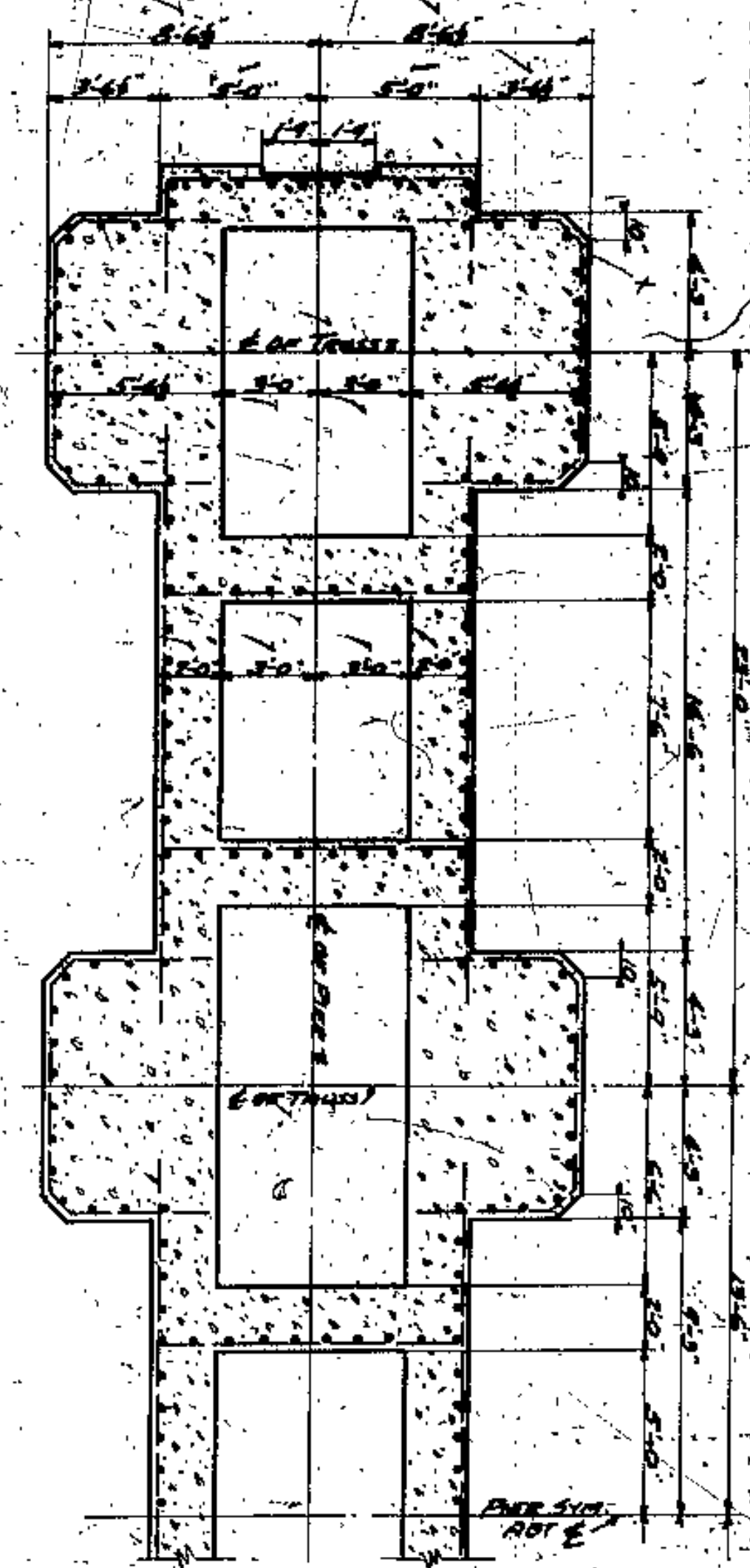
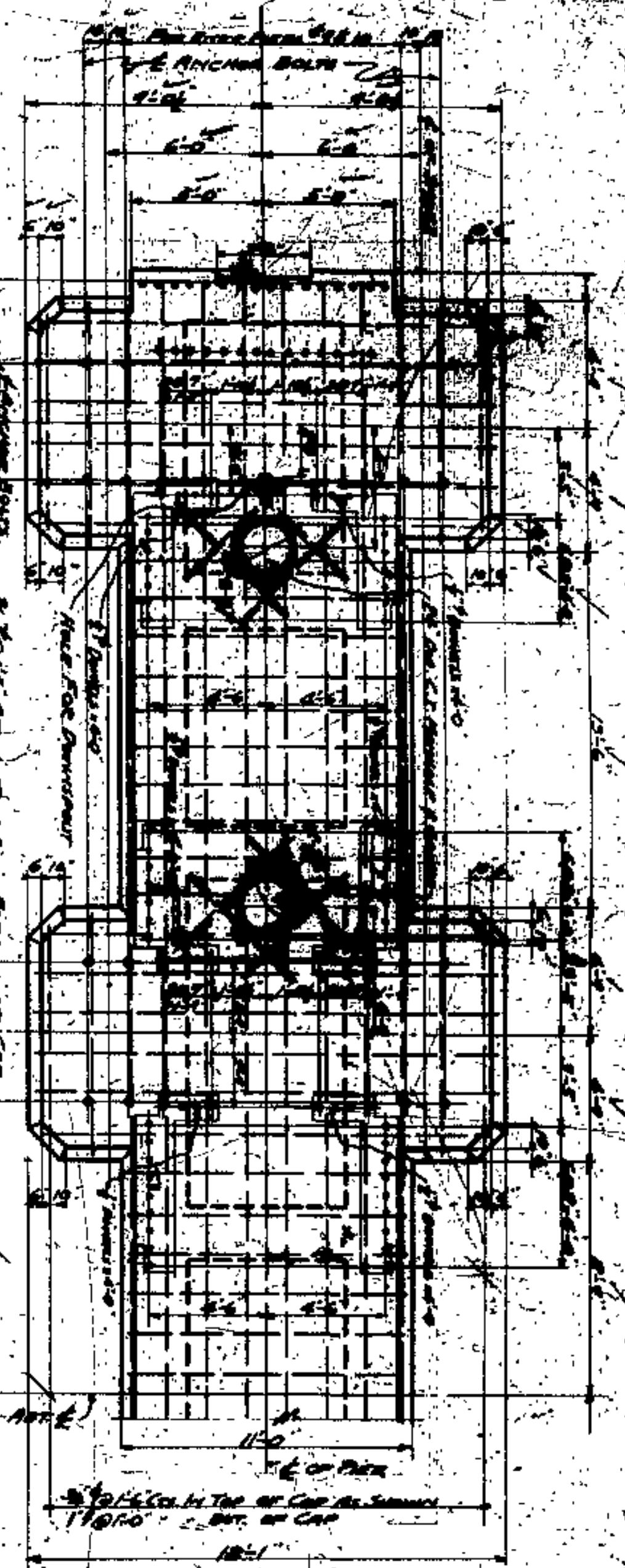
SCALE 1/4" = 1'-0"

FILE NO. 4362

WILBUR WATSON AND F. R. WALKER,  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND, OHIO

DATE	BY	REVISION





NOTE:  
 PLACE REINFORCING STEEL NOT LESS THAN 4 CLEAR FROM OUTSIDE FACE OF WALL  
 TOP OF PIER TO BE FINISHED SMOOTH AND LEVEL TO EXACT ELEVATIONS UNDER BEARING RAILS

DETAIL OF ANCHOR BOLTS  
 SCALE 3/4" = 1'-0"

APPROVED BY  
 J. H. HARRIS  
 COUNTY SURVEYOR  
 CUYAHOGA COUNTY  
 CLEVELAND, O.

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SURVEYOR
J. H. HARRIS	F. R. WILLIAMS
J. W. E. COOK	COUNTY BRIDGE ENGINEER
A. M. ELLIOTT	
LORAIN - CENTRAL BRIDGE	
CLEVELAND, O.	
DETAIL OF TOP OF PIERS	
SCALE 3/4" = 1'-0"	
NO. 4362	
WILBUR WATSON AND FREDERICK W. WATSON	ENGINEERS AND ARCHITECTS
CLEVELAND, O.	
DATE	DATE
APPROVED BY	DATE
4	

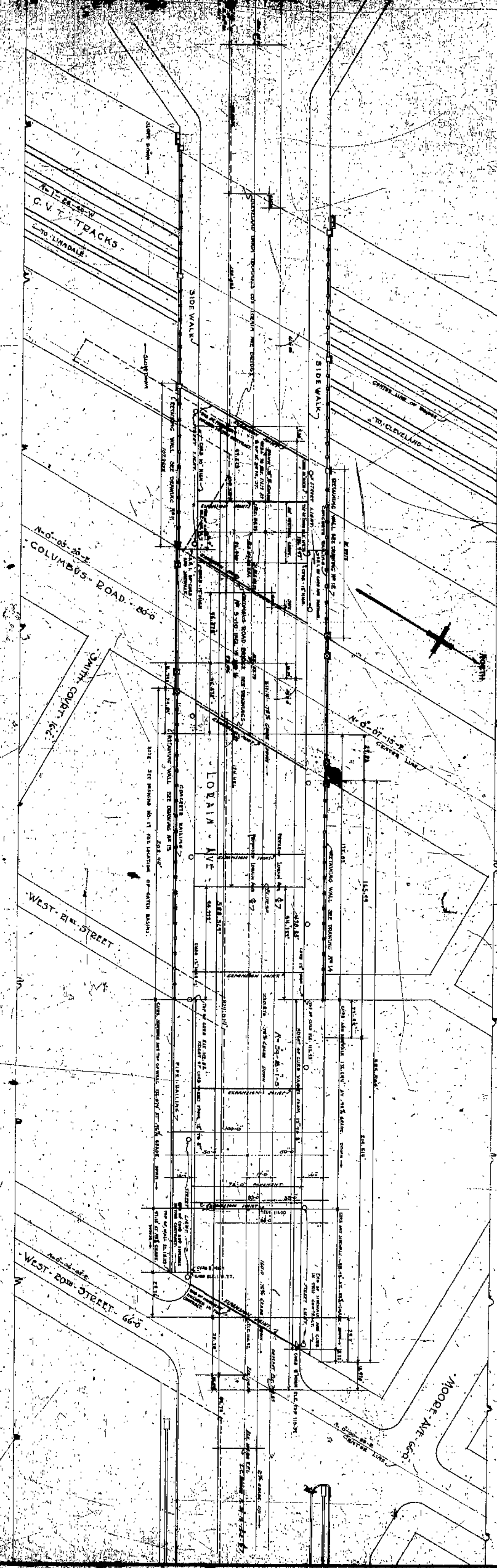








SECTION AT CURVE SIDE OF LOPAIN AVE.



TYPICAL SECTION OF LORAIN AVE. PAVEMENT.



TYPICAL DETAIL OF EXPANSION JOINTS.

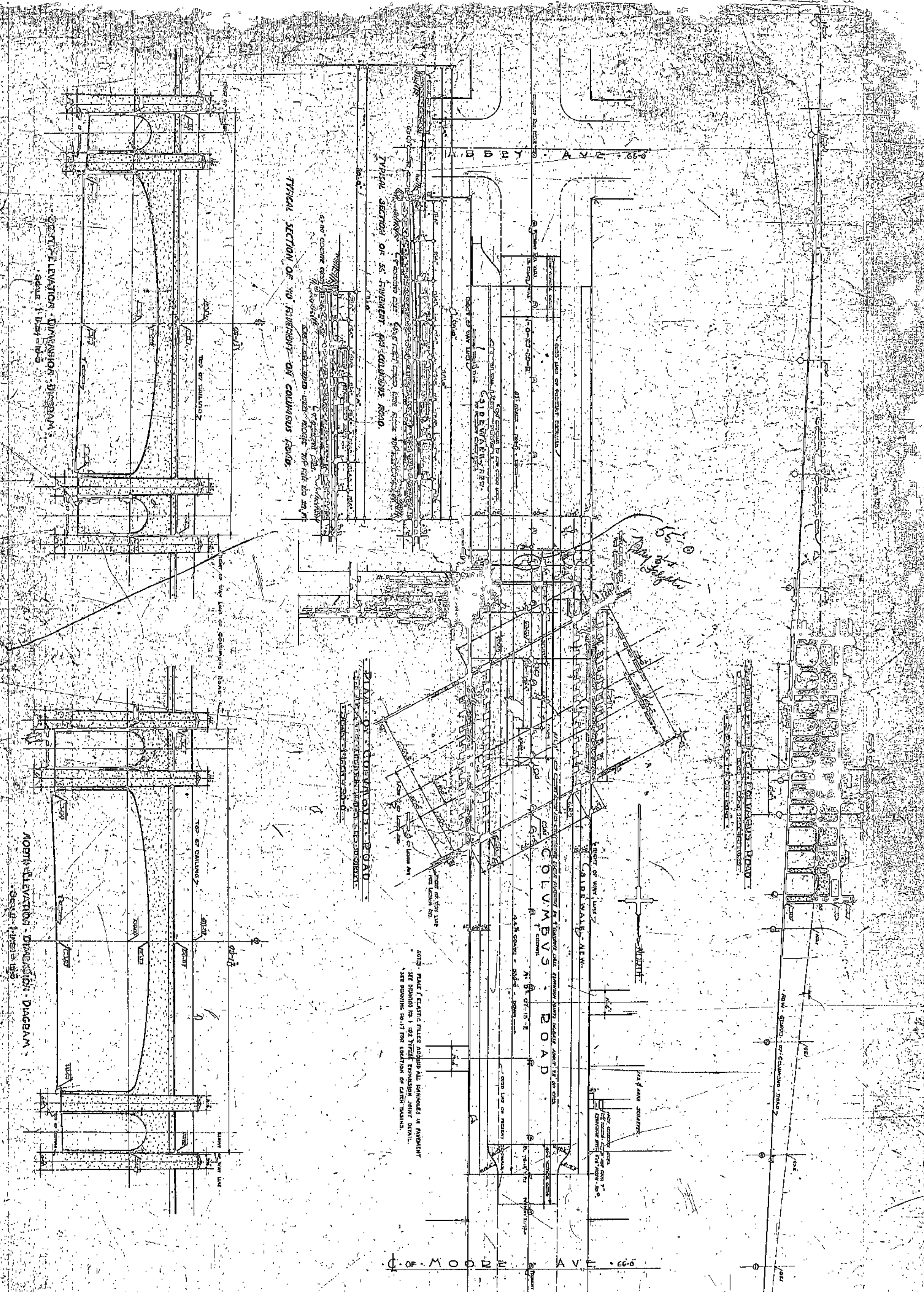
IN ENLIGHTENED DESIGN

APPROVED BY

*John E. Cook*

CITY OF CLEVELAND	CIVIL ENGINEER
BOARD OF COMMISSIONERS	COUNTY SURVEYOR
W. E. COOK	F. B. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
J. E. GORRAL	A. M. FELGATE
<b>LOPAIN CENTRAL BRIDGE</b> COLUMBUS ROAD GRADE ELEVATION CLEVELAND	
LOCATION: DIAN	
WITH ELEVATION IN FEET: 100.00	
WEIHER, WATSON AND ASSOCIATES CONSULTING ENGINEERS 1000 EAST 12TH STREET, CLEVELAND, OHIO	





**LORAIN CENTRAL BRIDGE**  
 LOCATION: ALONG COLUMBUS ROAD  
 PLAN

BOARD OF COMMISSIONERS  
 W. E. COON  
 J. H. HARRIS  
 J. H. GARDNER

CUYAHOGA COUNTY  
 COUNTY SHERIFF  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. H. STEVENS  
 A. H. STEVENS

CITY ENGINEER  
 J. H. HARRIS  
 J. H. GARDNER

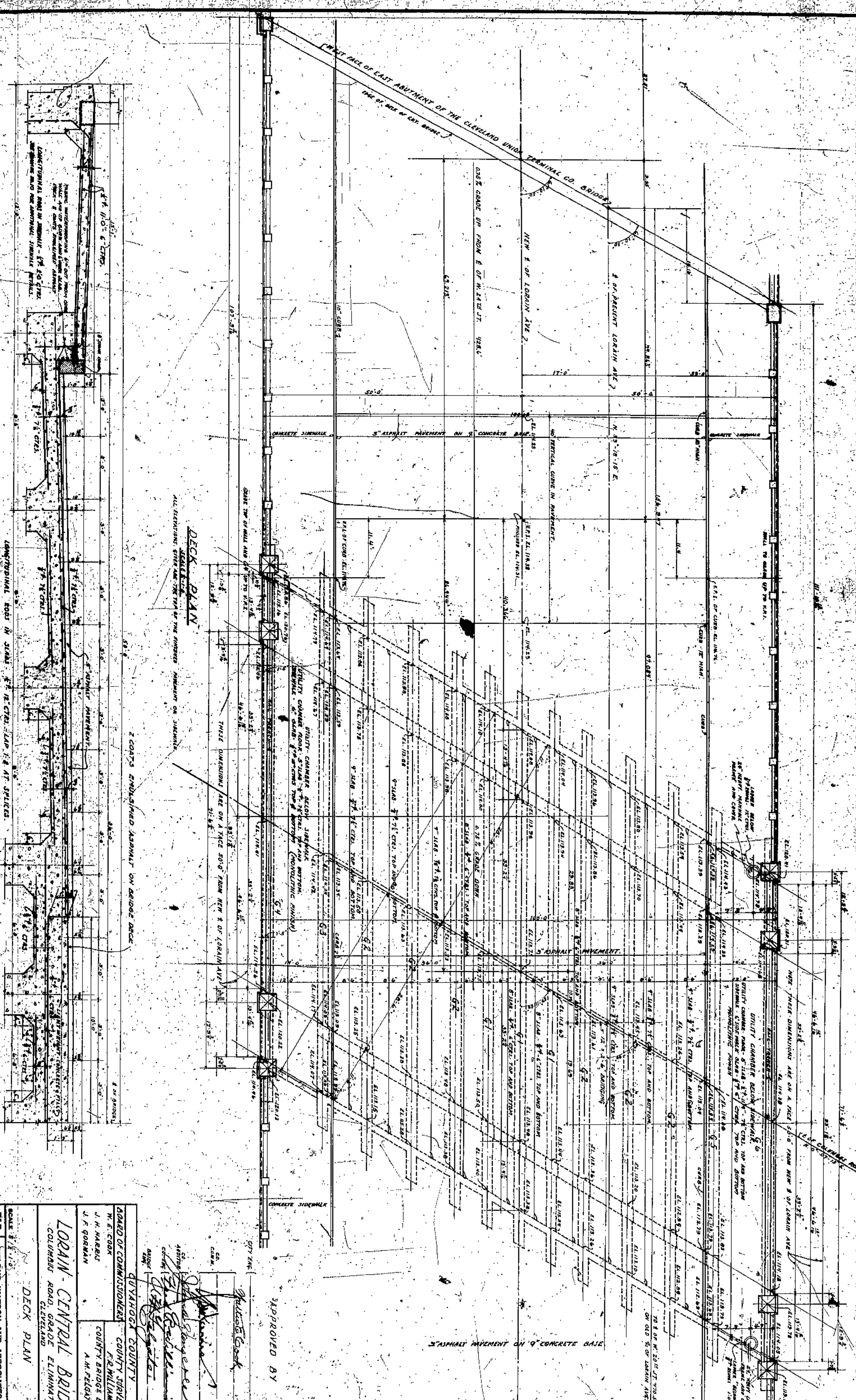
APPROVED BY  
 J. H. HARRIS  
 J. H. GARDNER

CITY ENGINEER  
 J. H. HARRIS  
 J. H. GARDNER

CITY ENGINEER  
 J. H. HARRIS  
 J. H. GARDNER

CITY ENGINEER  
 J. H. HARRIS  
 J. H. GARDNER



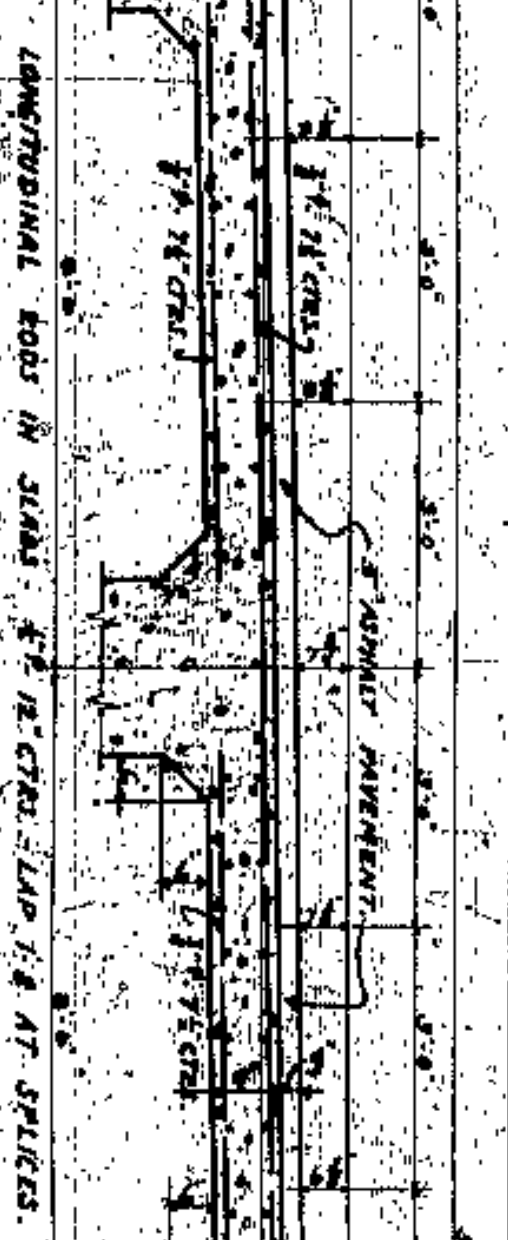


**DECK PLAN**

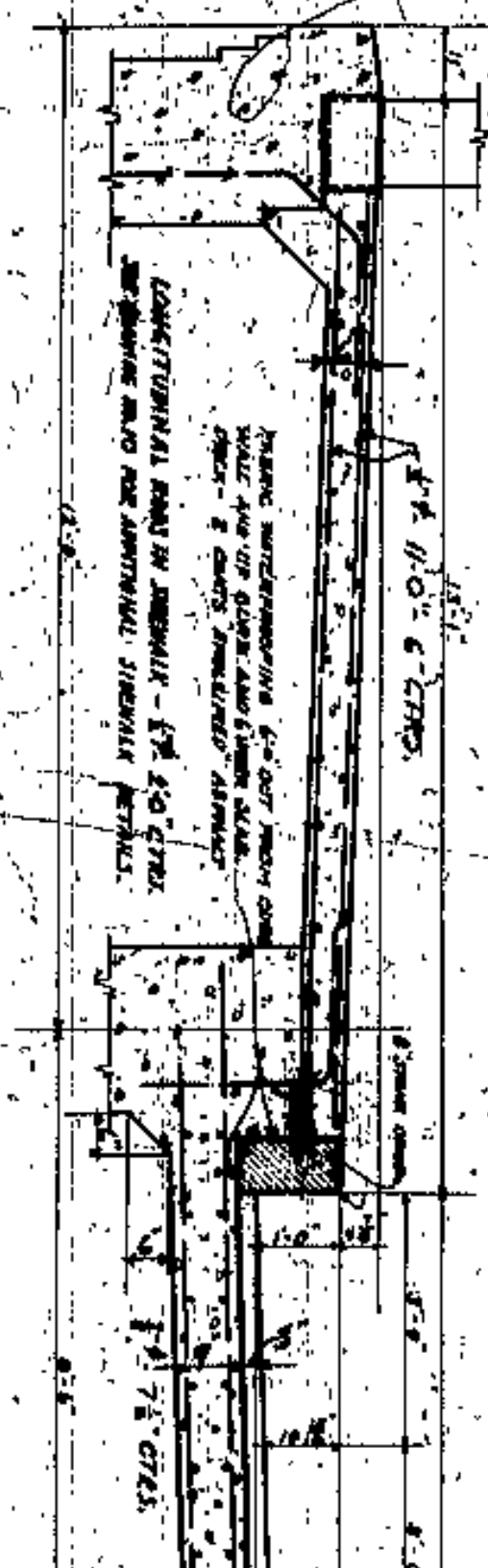
ALL ELEVATIONS GIVEN ARE THE TOP OF THE FINISHED PAVEMENT OR SIDEWALK

2 COATS ENHANCED ASPHALT ON BRIDGE DECK

**TYPICAL DECK SECTION**



LONGITUDINAL BOLT IN STEEL 2" X 1/2" CTR. LAP 1/4" AT SPICES



LONGITUDINAL BOLT IN STEEL - 2" X 1/2" CTR. LAP 1/4" AT SPICES

APPROVED BY

*John S. Cook*  
*John S. Cook*  
 CIVIL ENGINEER  
 10000 W. 20th ST. #100  
 CLEVELAND, OHIO 44130

**LORAIN CENTRAL BRIDGE**  
 COLUMBUS ROAD, GRADE ELIMINATION  
 CLEVELAND

**DECK PLAN**

**WILBUR WATSON AND ASSOCIATES**  
 CONSULTING ARCHITECTS-ENGINEERS  
 CLEVELAND

**BOARD OF COMMISSIONERS**  
 COUNTY SUPERVISOR  
 F. B. WILLIAMS

**COUNTY BRIDGE ENGINEER**  
 A. M. FELGATE

**DATE** 4/27/51

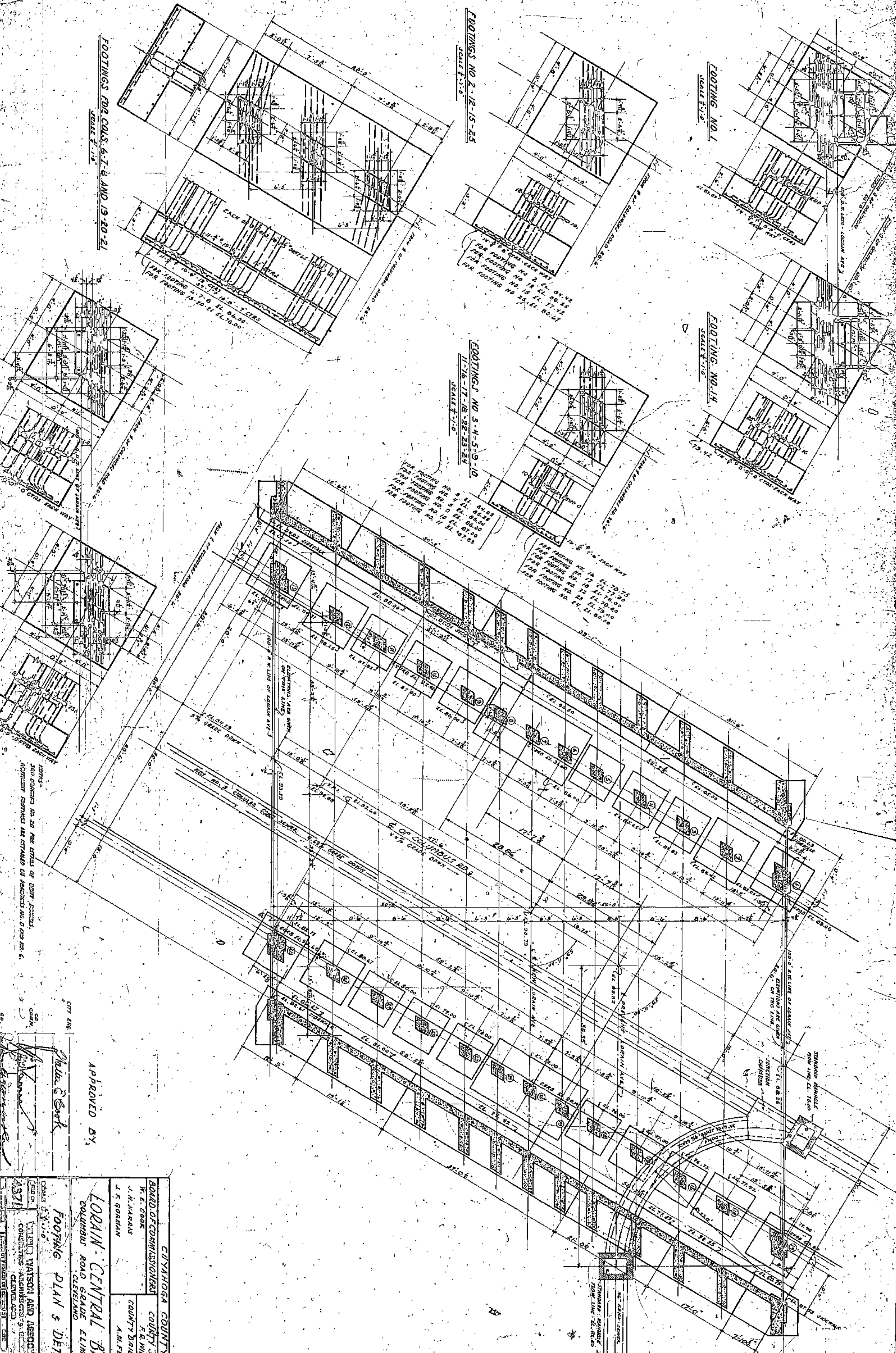
**SCALE** 1" = 10'-0"

**PROJECT NO.** 4371

**REVISIONS**

NO.	DATE	DESCRIPTION
1	4/27/51	AS SHOWN
2	5/1/51	REVISED PER COMMENTS
3	5/1/51	REVISED PER COMMENTS





APPROVED BY,

Charles S. Cook

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY ENGINEER  
 F. B. MILLMAN  
 COUNTY BRIDGE ENGINEER  
 A. N. FLETCHER  
 J. H. HARRIS  
 J. F. GOODMAN

LORAIN - CENTRAL BRIDGE  
 COLUMBUS ROAD GRADE ELIMINATION  
 CLEVELAND

FOOTING PLAN & DETAILS

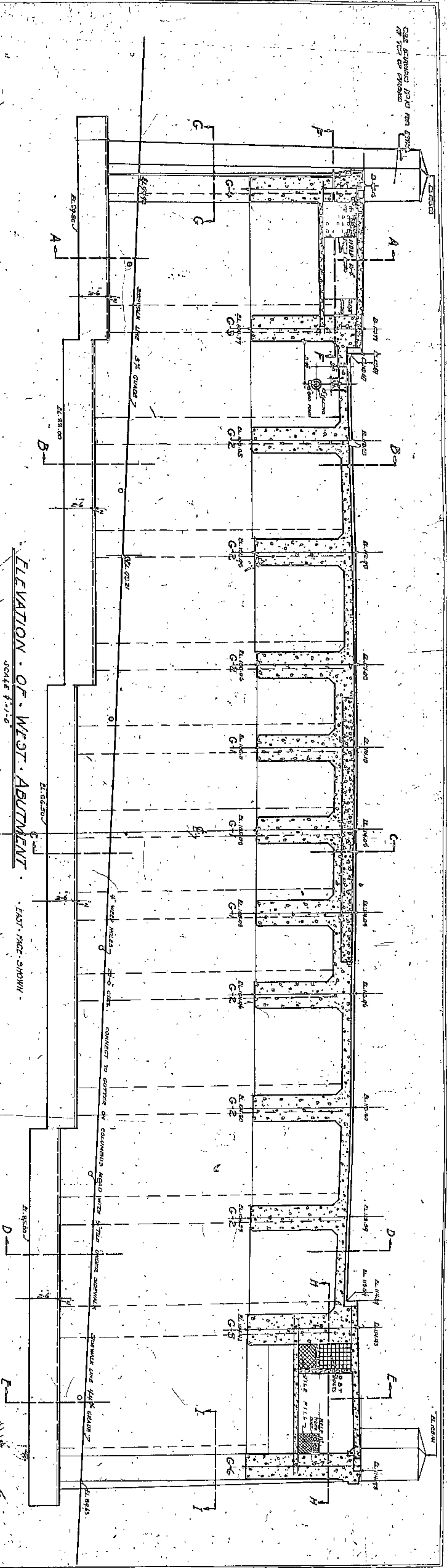
WALTER WATSON AND ASSOCIATES  
 CONSULTING ARCHITECTS & ENGINEERS  
 CLEVELAND, OHIO

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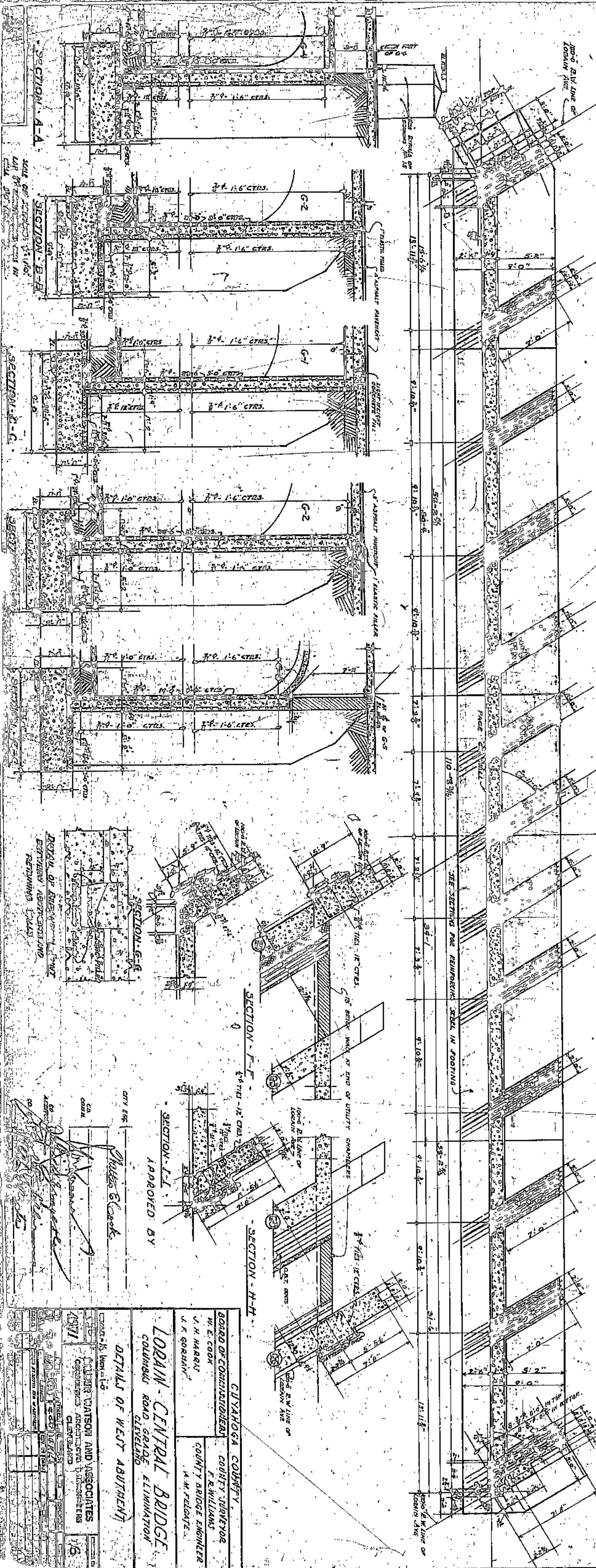








ELEVATION OF WEST ABUTMENT  
SCALE 1/2" = 1'-0"  
EAST FACE SHOWN



APPROVED BY

CHAS. B. COOK

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY ENGINEER  
F. R. WILLIAMS  
COUNTY BRIDGE ENGINEER  
A. M. FELTZ

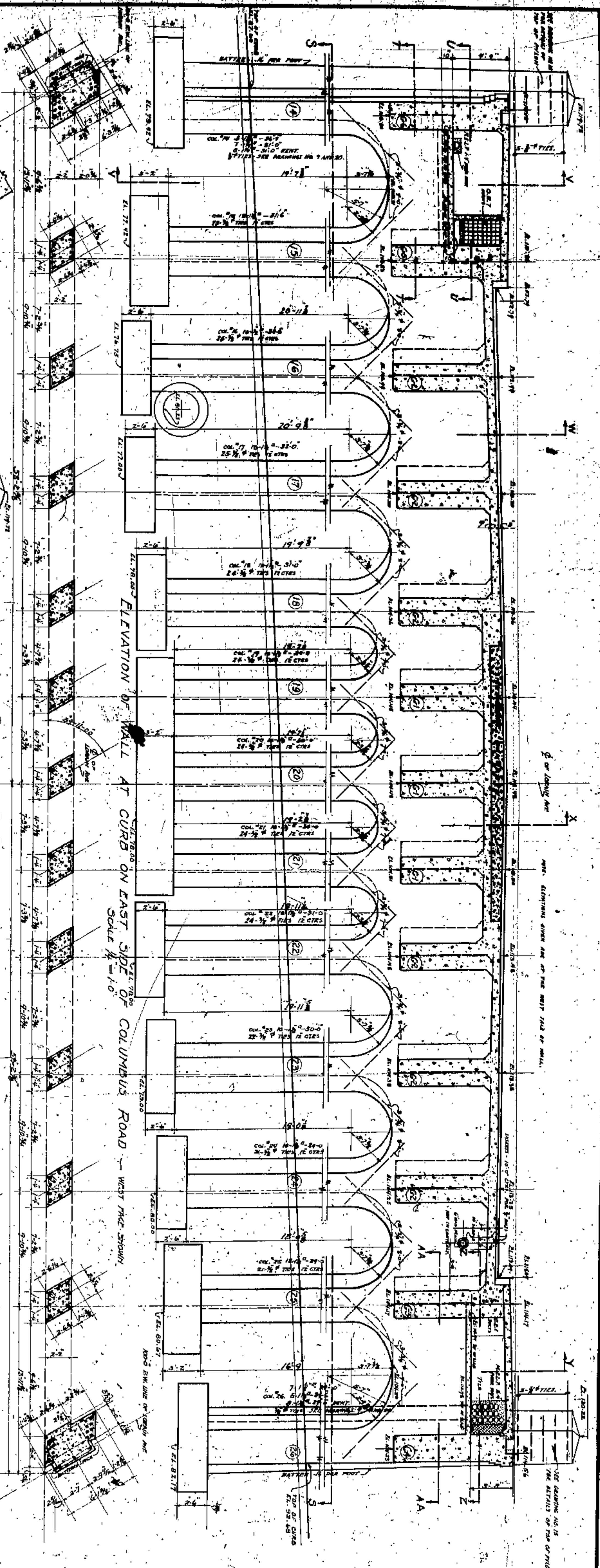
LORAIN CENTRAL BRIDGE  
COLUMBUS ROAD GRADE ELIMINATION  
CLEVELAND

DETAILS OF WEST ABUTMENT

WATSON AND ASSOCIATES  
CONSULTING ENGINEERS  
CLEVELAND

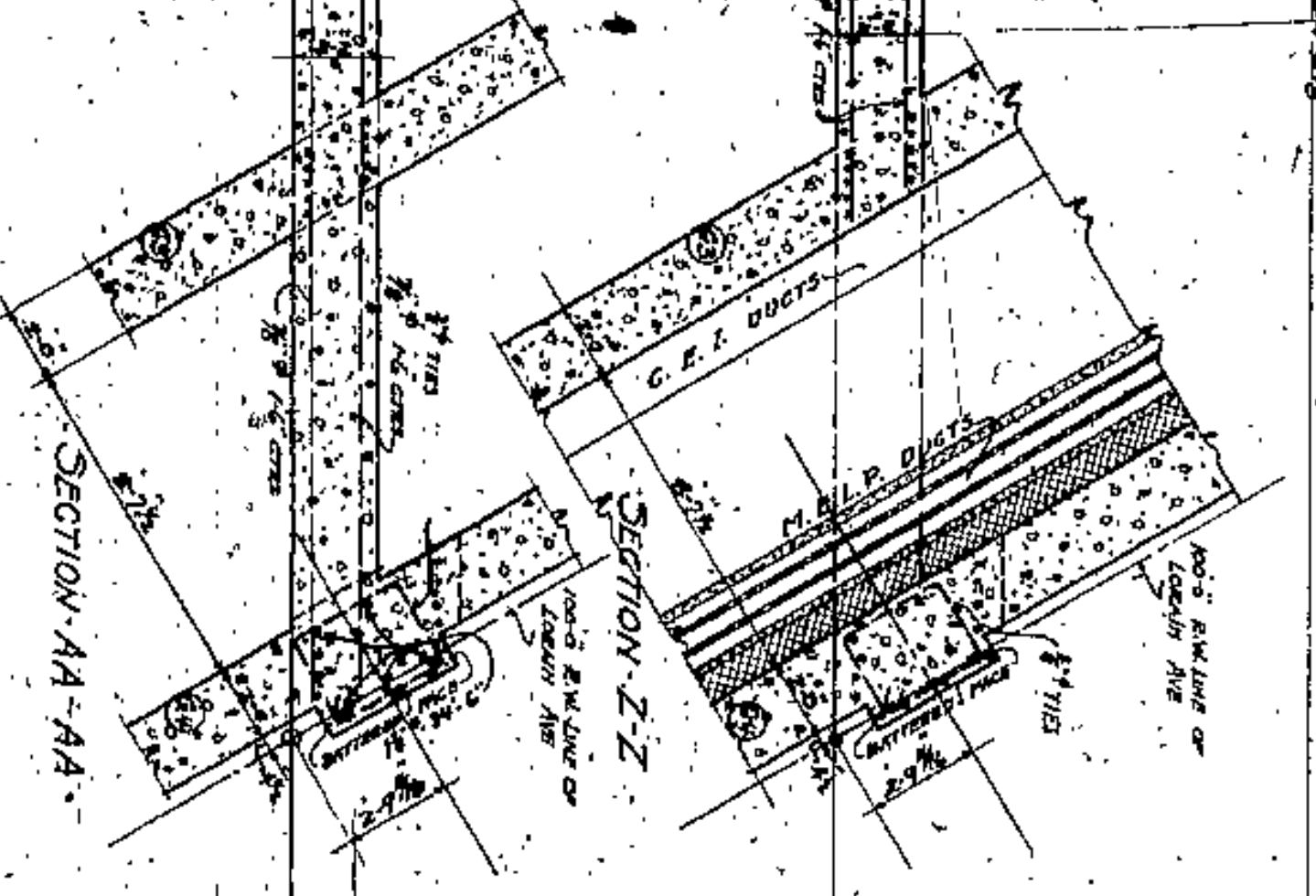
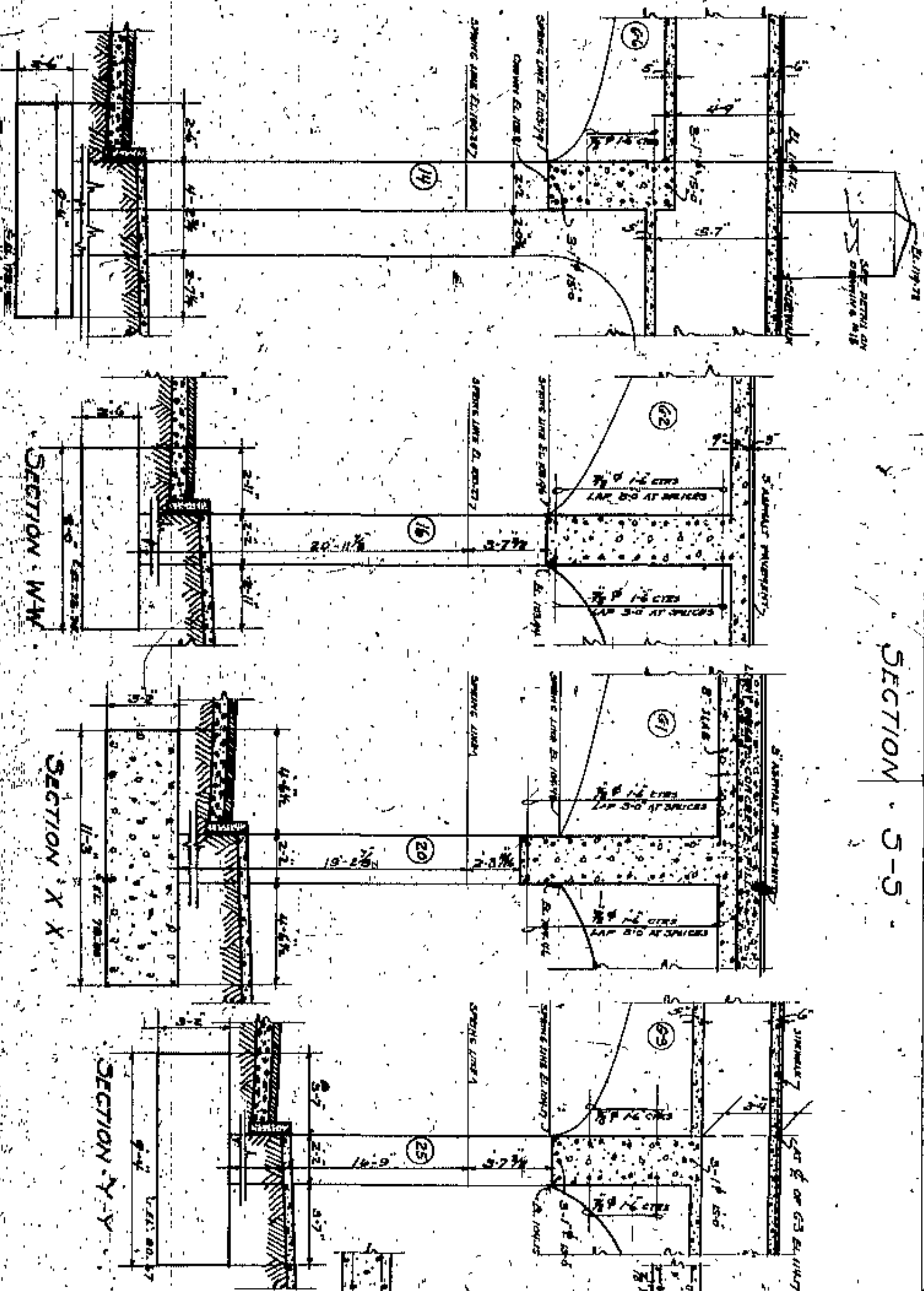
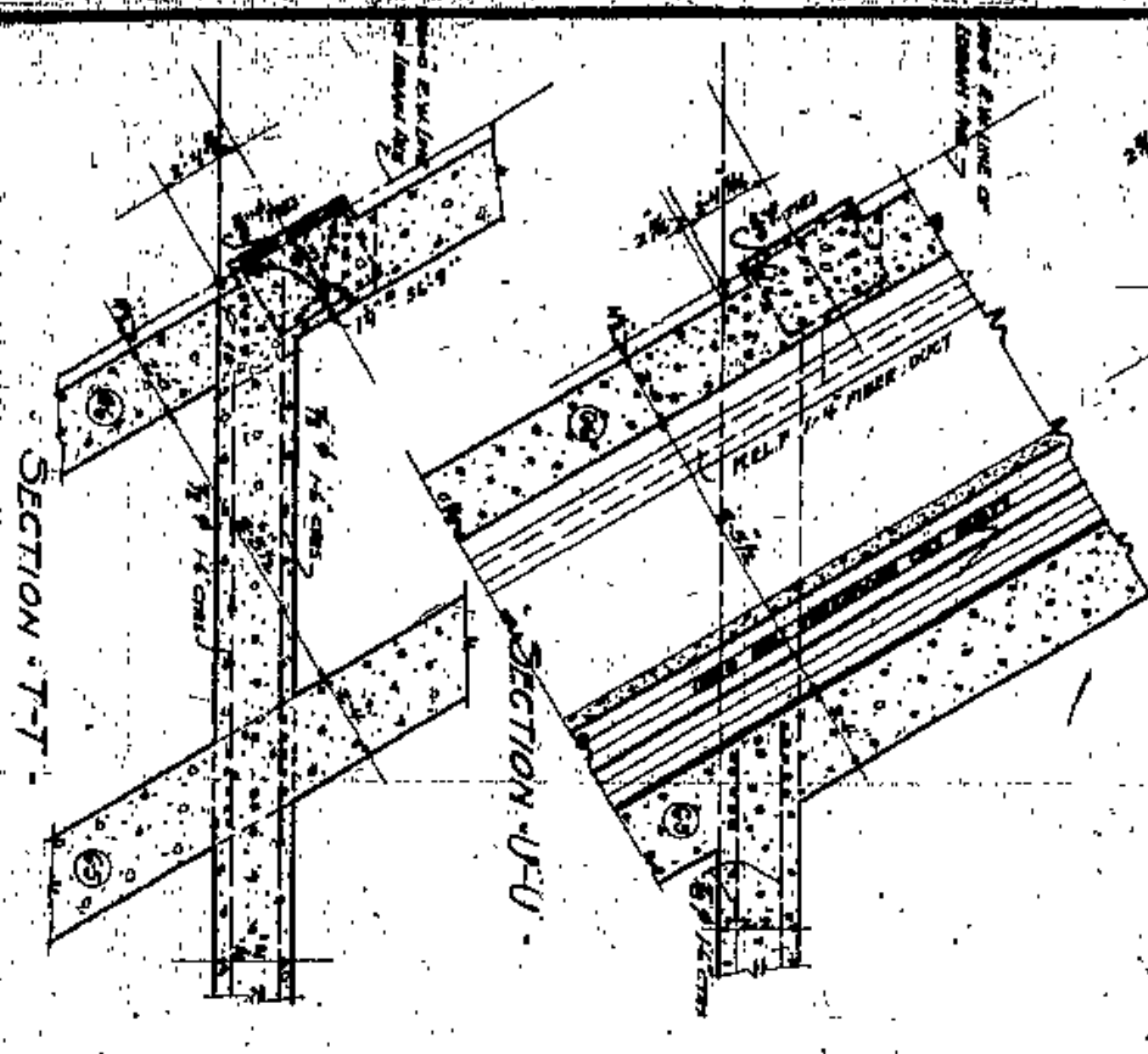
NO.	DATE	REVISIONS
1		
2		
3		
4		
5		
6		





ELEVATION OF WALL AT CURB ON EAST SIDE OF COLUMBUS ROAD - WEST FACE SHOWN  
SCALE 1/4" = 1'-0"

SECTION 5-5



APPROVED BY

*[Signature]*  
CITY ENG.

*[Signature]*  
AUG 20 1925

*[Signature]*  
AUG 20 1925

*[Signature]*  
AUG 20 1925

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY ENGINEER  
F. R. WILLIAMS  
COUNTY BRIDGE ENGINEER  
A. M. FELGATE

J. H. HARSH  
J. R. COLEMAN

**LOBAIN CENTRAL BRIDGE**  
COLUMBUS ROAD GRADE ELIMINATION  
CLEVELAND

DETAILS OF WALL AT CURB ON EAST SIDE OF COLUMBUS ROAD

SCALE 1/4" = 1'-0"

WILBUR WATSON AND ASSOCIATES  
CONSULTING ARCHITECTS & ENGINEERS  
CLEVELAND

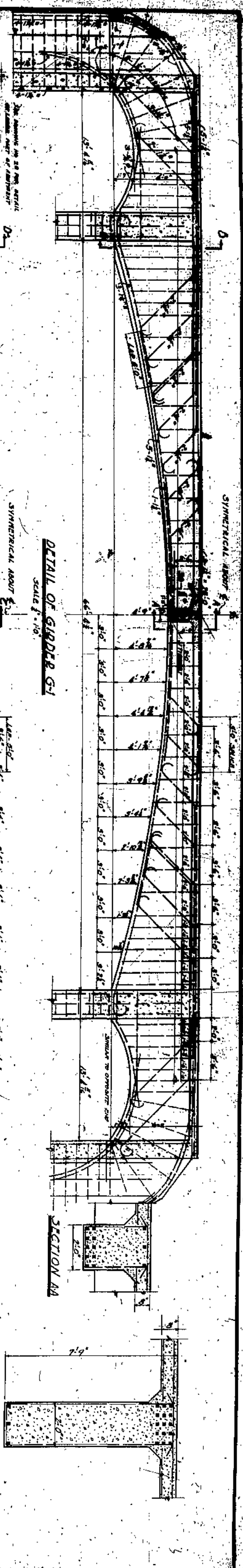
4371

7

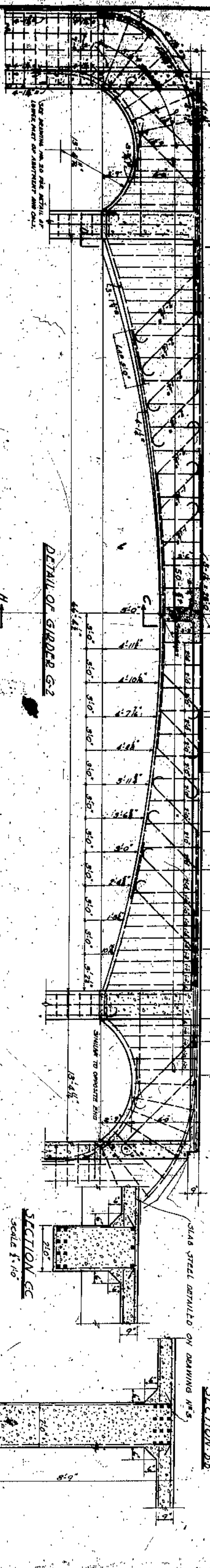




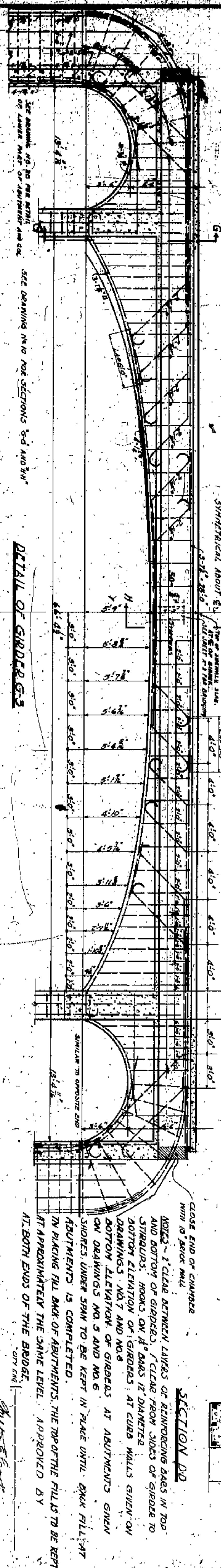




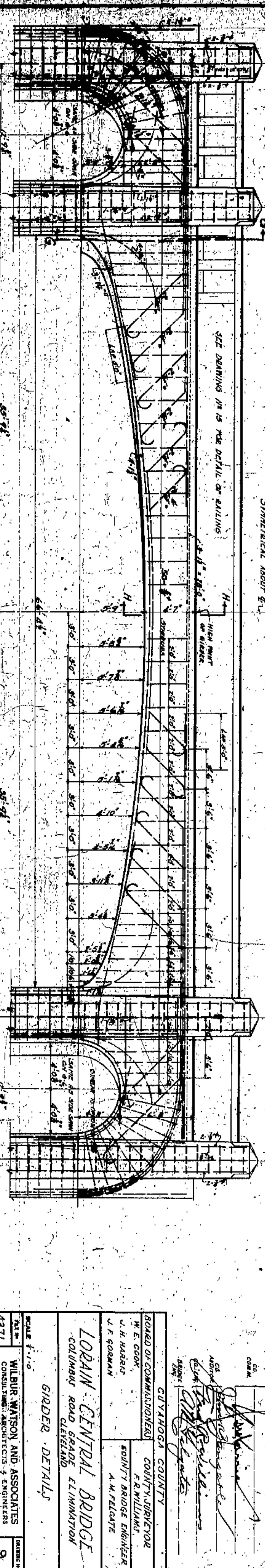
DETAIL OF GIRDER G-1  
SCALE 1" = 10'



DETAIL OF GIRDER G-2  
SCALE 1" = 10'



DETAIL OF GIRDER G-3  
SCALE 1" = 10'



DETAIL OF GIRDER G-4  
SCALE 1" = 10'

SECTION DD  
CLOSE END OF CHAMBER WITH 18" BRICK WALL

NOTES - 2" CLEAR BETWEEN LAYERS OF REINFORCING BARS IN TOP AND BOTTOM OF GIRDERS. 1" CLEAR FROM SIDES OF GIRDER TO STIRRUPS. HOOKS ON 1/4" BARS 12" DIAMETER. BOTTOM ELEVATION OF GIRDERS AT CURB WALLS GIVEN ON DRAWINGS NO. 7 AND NO. 8. BOTTOM ELEVATION OF GIRDERS AT ABUTMENTS GIVEN ON DRAWINGS NO. 5 AND NO. 6. ABUTMENTS UNDER SPAN TO BE KEPT IN PLACE UNTIL BRICK FILL-OUT IN PLACING FULL BACK OF ABUTMENTS. THE TOP OF THE FILLS TO BE KEPT AT APPROXIMATELY THE SAME LEVEL. APPROVED BY

AT BOTH ENDS OF THE BRIDGE.

WILLIAM S. GARDNER  
CITY ENGINEER

GUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY JUDGE  
COUNTY ENGINEER

W. E. COOK  
J. H. HARRIS  
J. F. GOSMAN

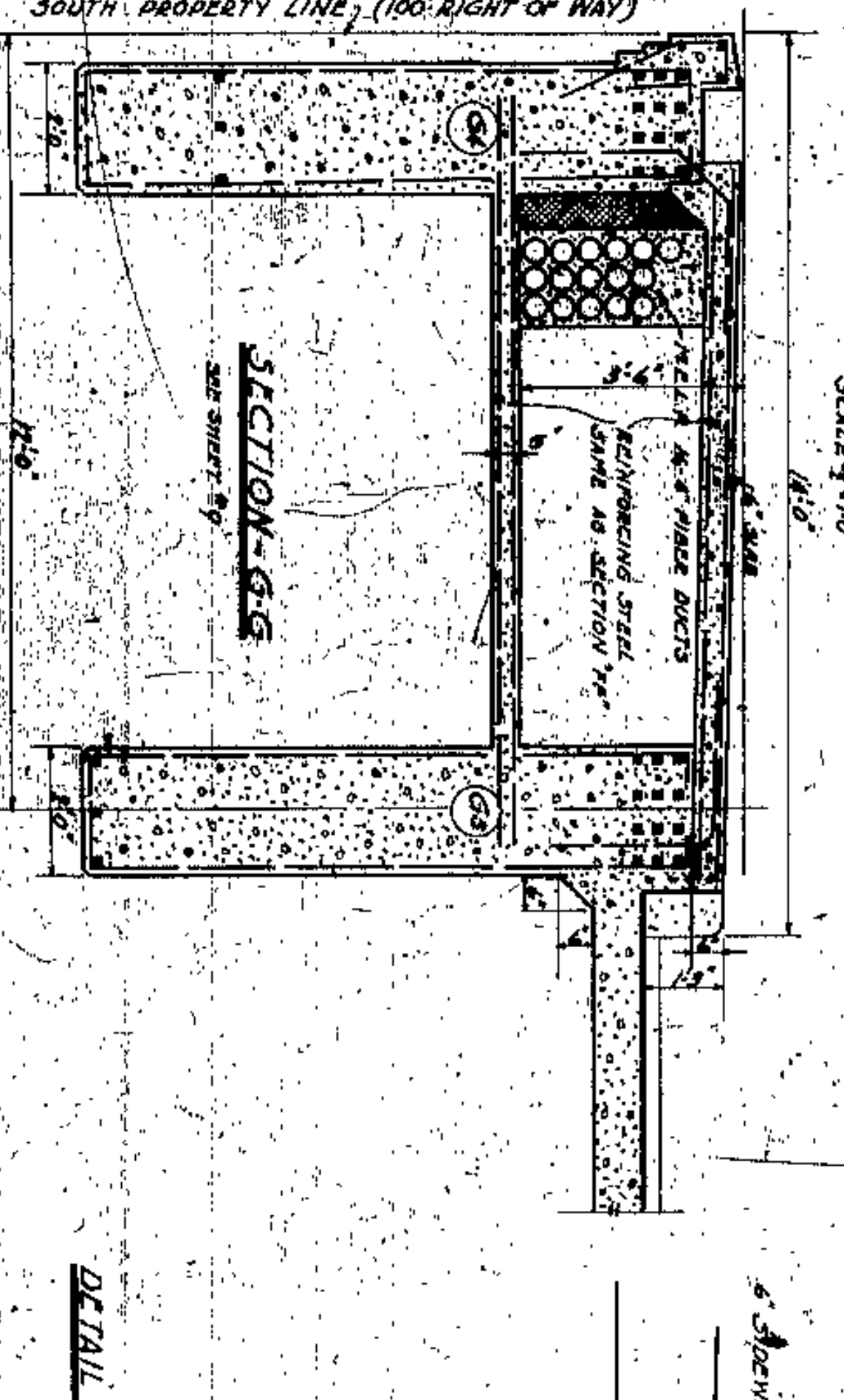
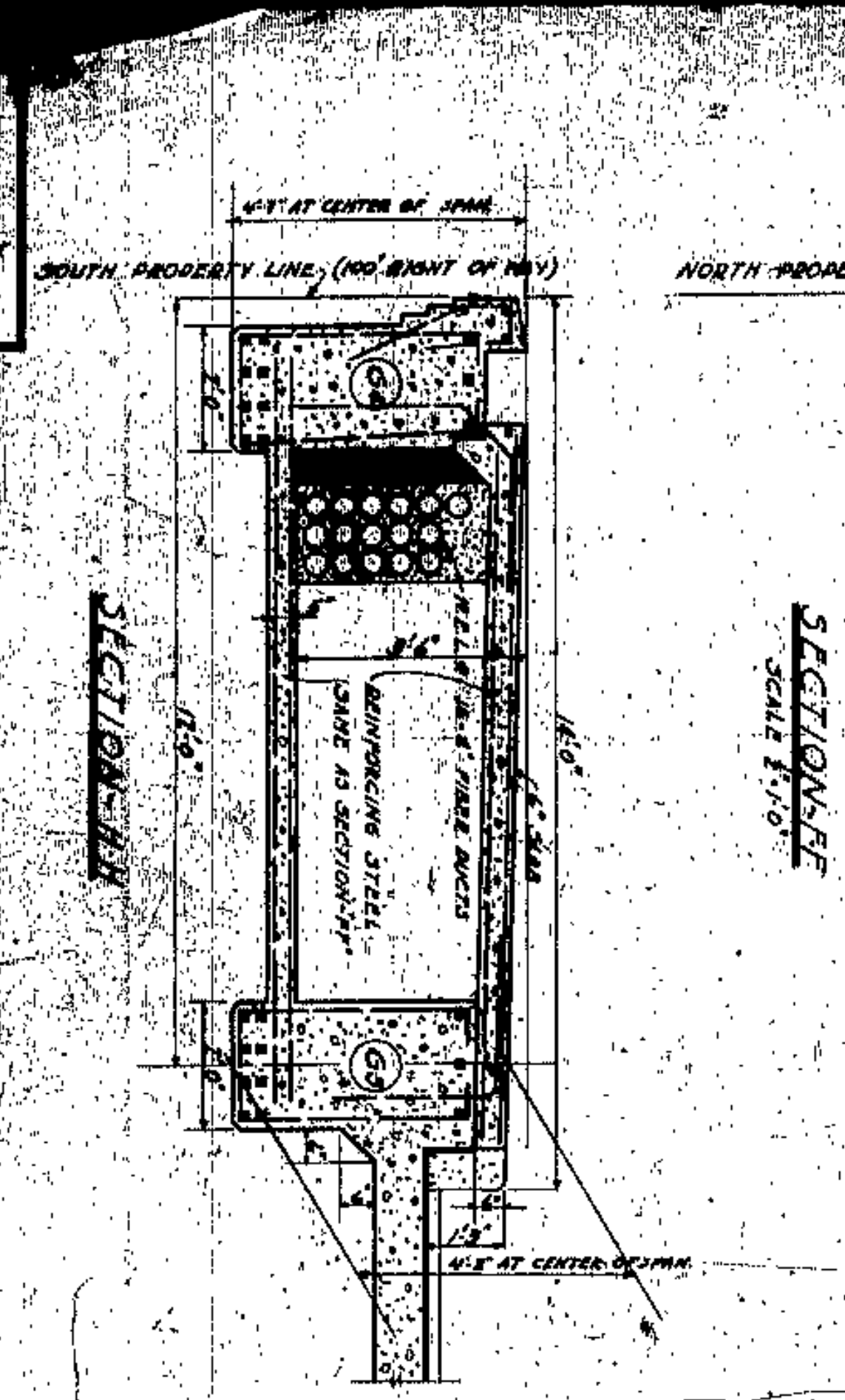
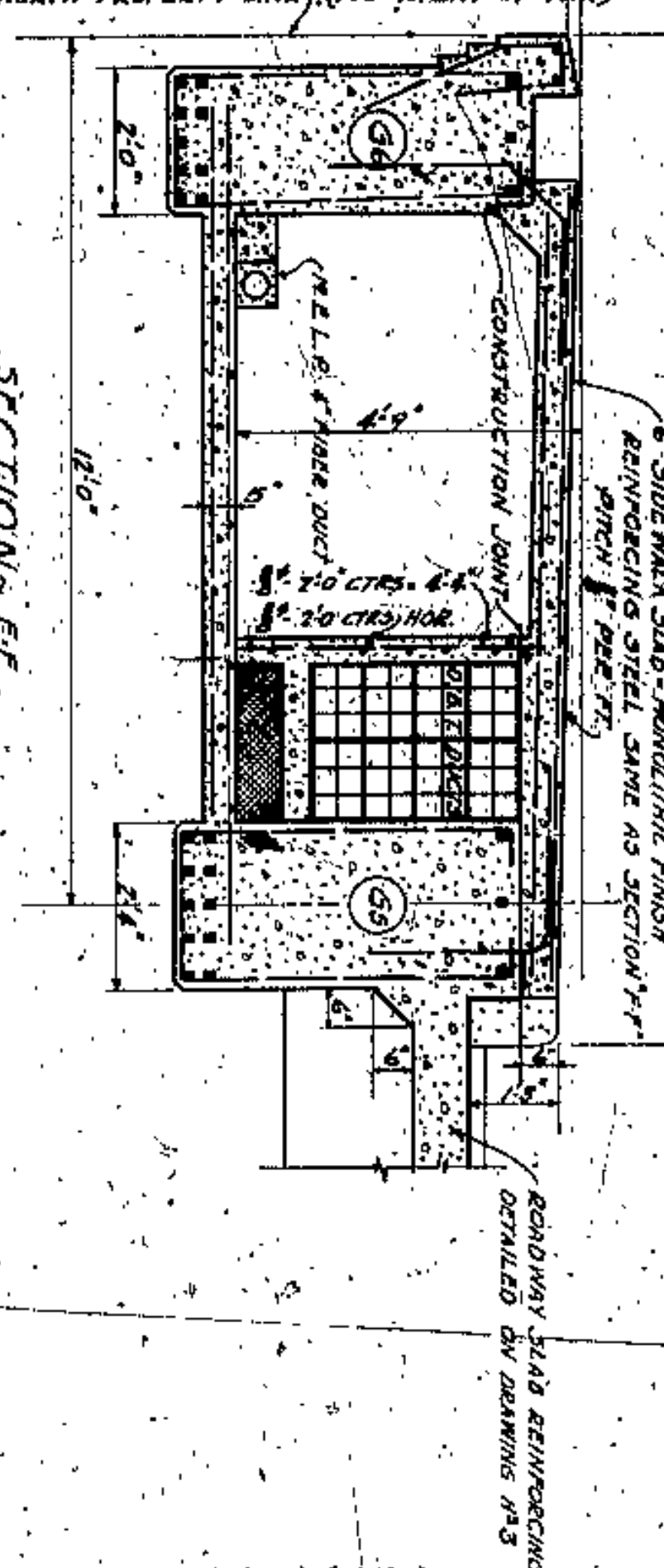
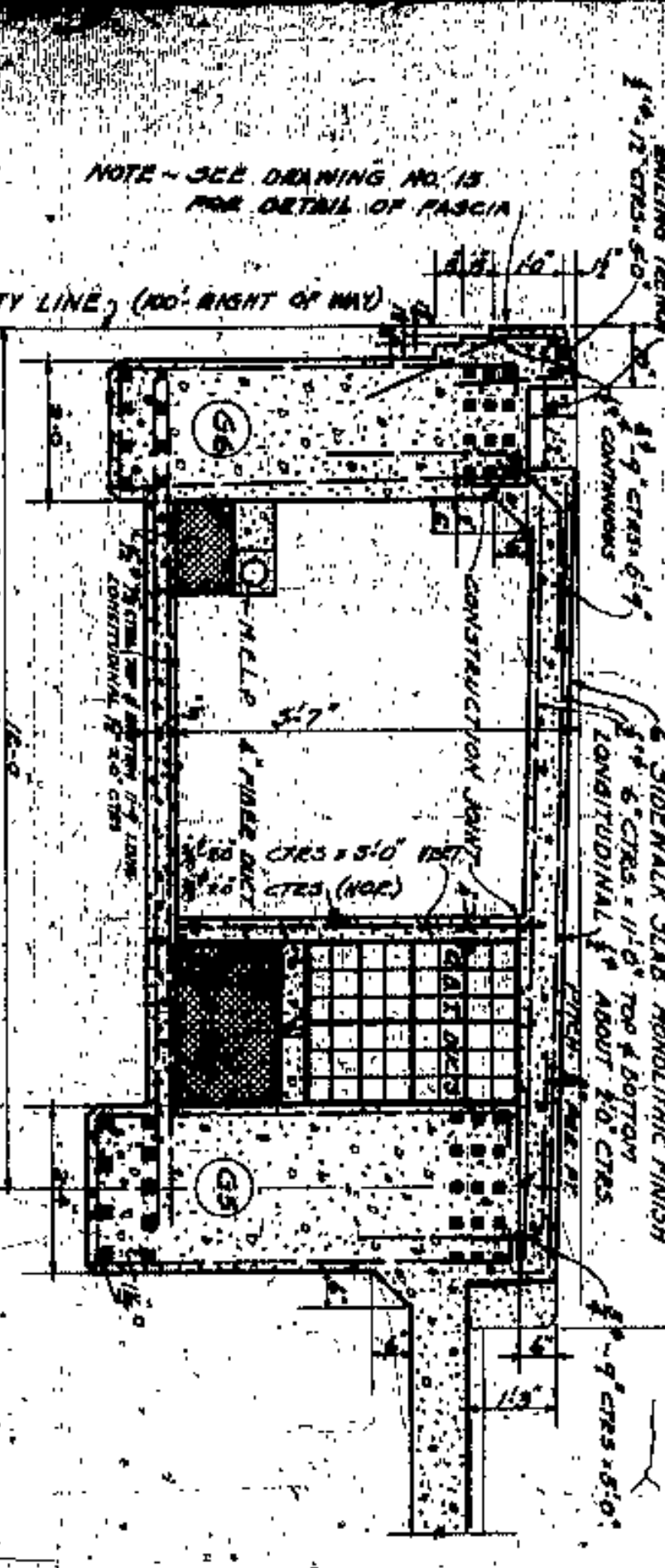
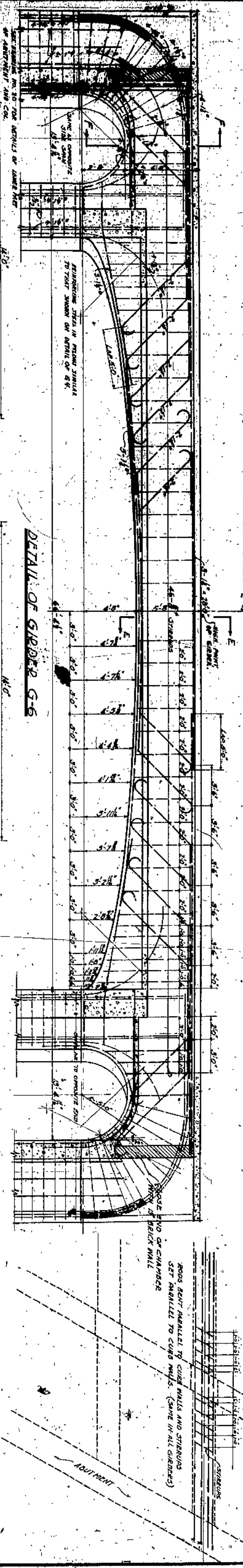
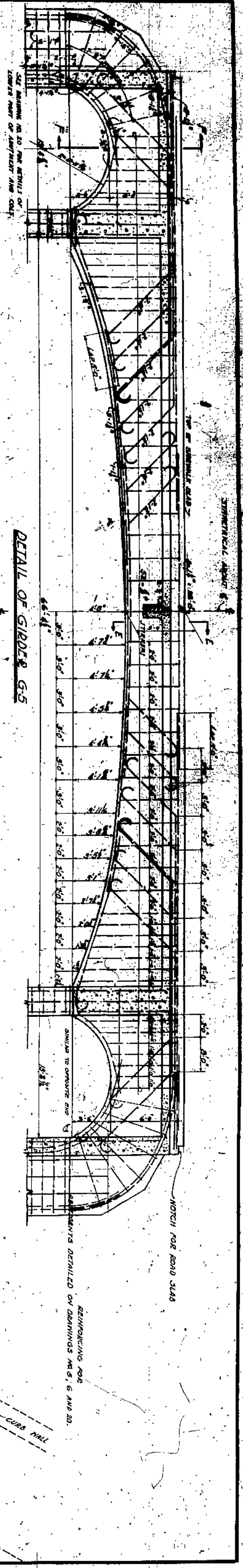
FRANK W. WATSON  
COUNTY BRIDGE ENGINEER  
A. M. FELDMAN

LORAIN CENTRAL BRIDGE  
COLUMBUS ROAD GRADE ELIMINATION  
CLEVELAND

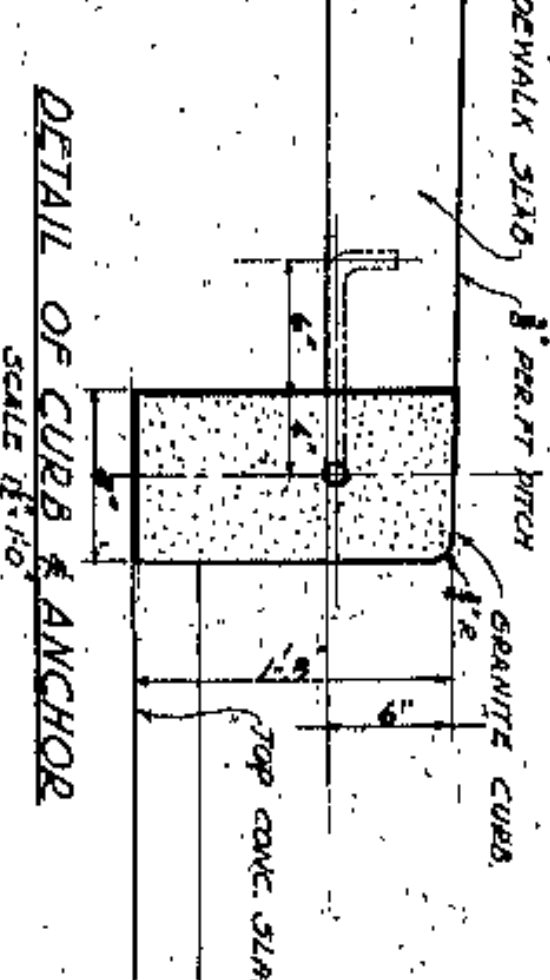
GIRDER DETAILS

SCALE 1" = 10'	DATE	BY	CHKD.	APP'D.
4371				
WILLIAM WATSON AND ASSOCIATES CONSULTING ARCHITECTS & ENGINEERS CLEVELAND				
9				

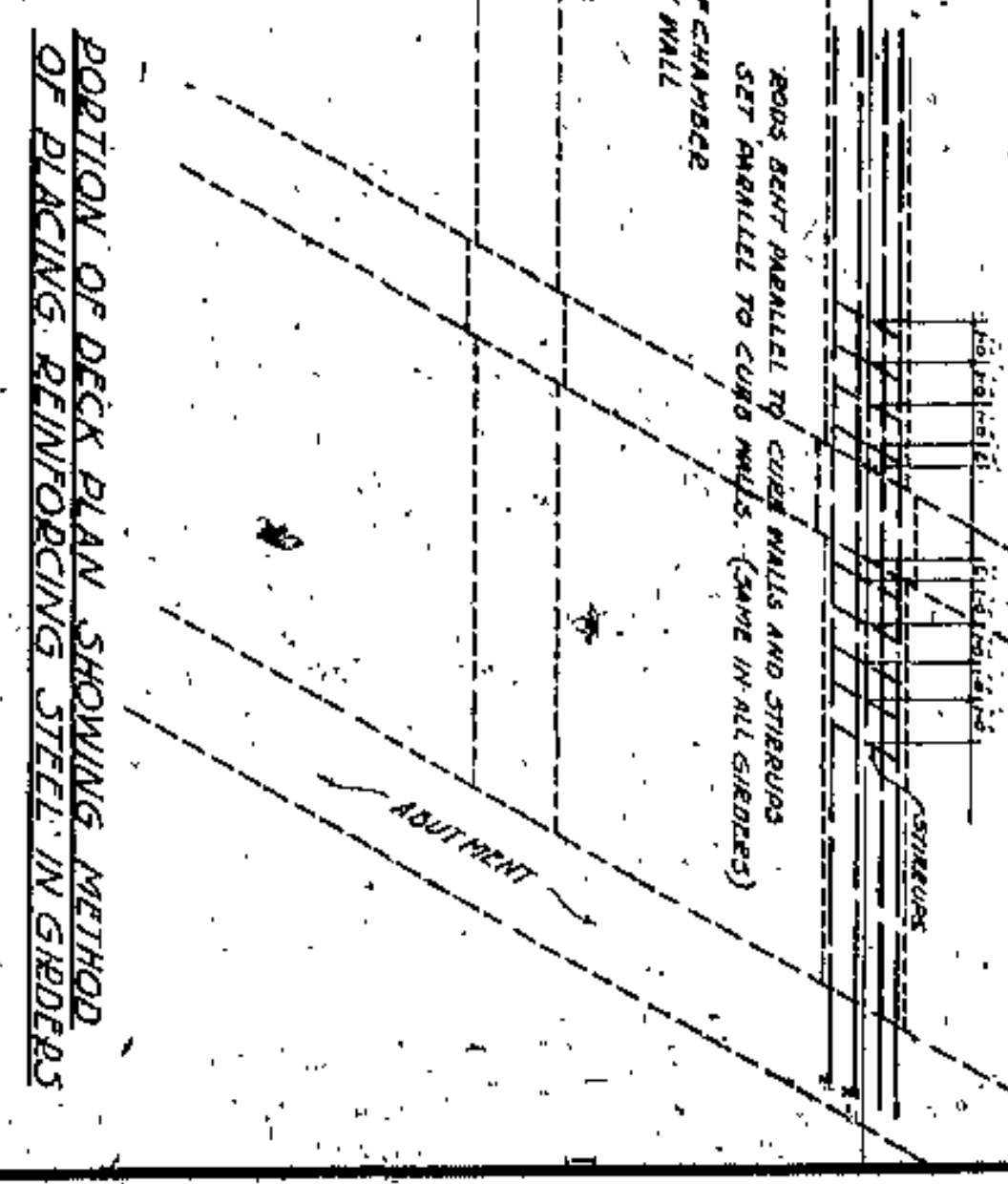




NOTE - 2" CLEAR BETWEEN LAYERS OF MAIN REINFORCING BARS IN TOP AND BOTTOM OF GIRDERS. SIDEWALK SLABS - 6" MONOLITHIC FINISH. ELEVATIONS OF BOTTOM OF GIRDERS AT EAST AND WEST ABUTMENTS GIVEN ON DRAWINGS NOS. 5 AND NO. 6. ELEVATIONS OF BOTTOM OF GIRDERS AT EAST AND WEST CURB WALLS GIVEN ON DRAWINGS NO. 7 AND NO. 8. SEE NOTES ON DRAWING NO. 9.



DETAIL OF MALLEABLE IRON CURB ANCHORS



APPROVED BY

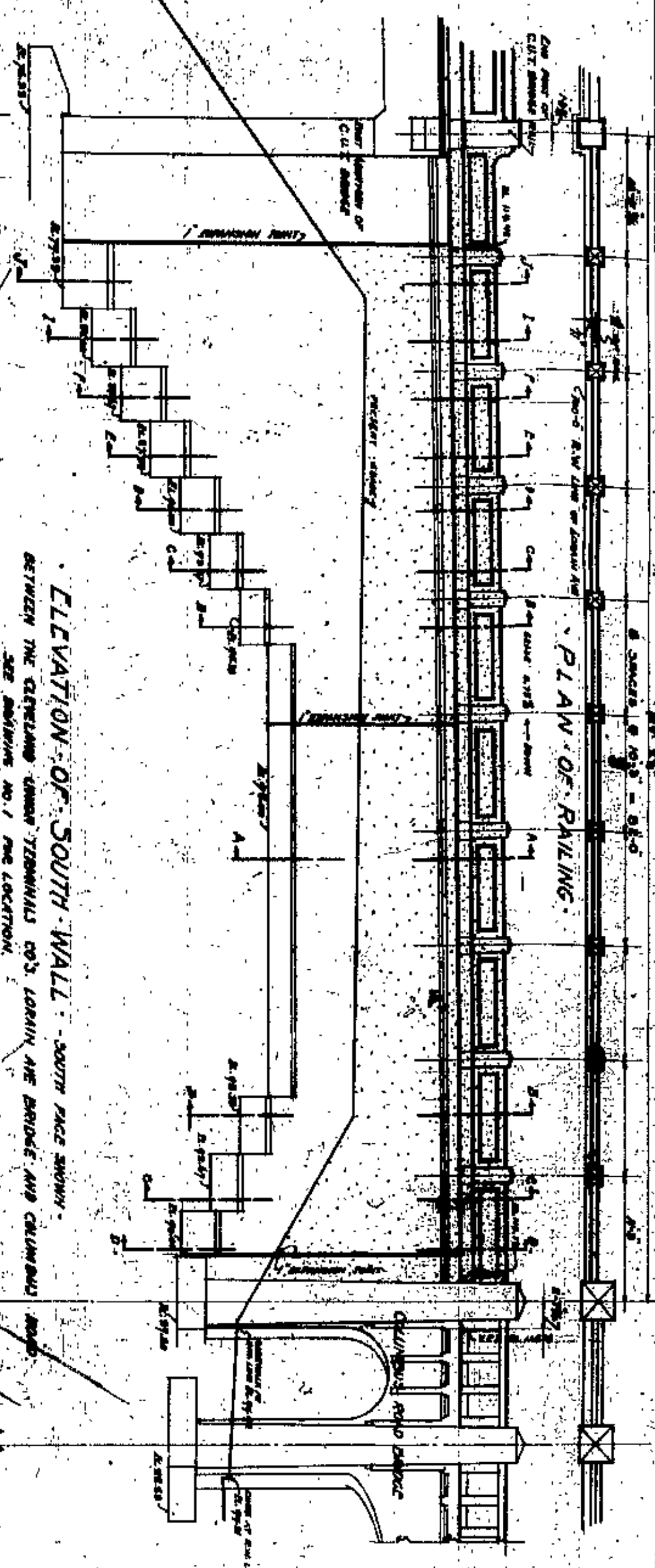
*J. F. GORHAM*  
 J. F. GORHAM  
 COUNTY BRIDGE ENGINEER  
 A.M. FELDMAN

LODAIN CENTRAL BRIDGE  
 COLUMBUS ROAD GRADE ELIMINATION  
 CUYAHOGA COUNTY  
 COUNTY SUPERVISOR  
 F.R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 J.F. GORHAM

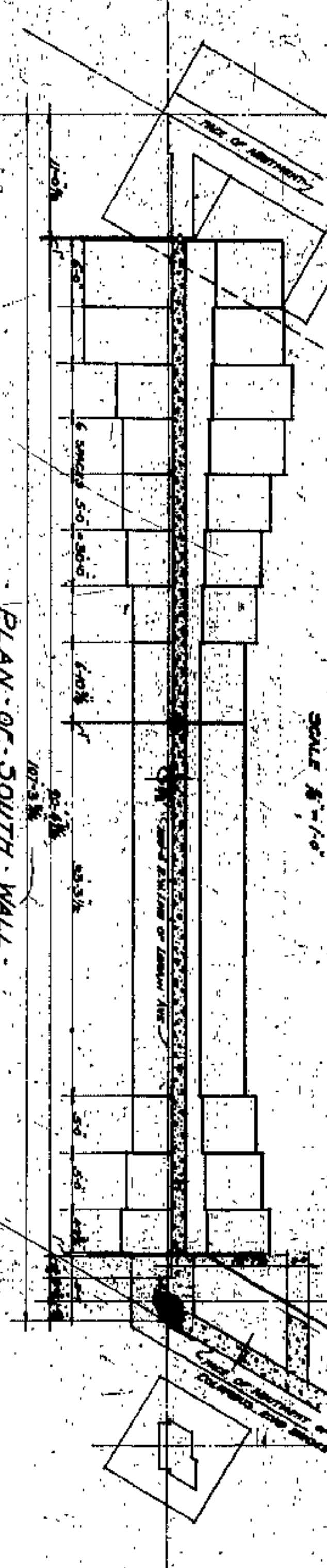
SCALE	1" = 1'-0"
DATE	10
DESIGNED BY	WILBUR WATSON AND ASSOCIATES
CHECKED BY	CONSULTING ARCHITECTS & ENGINEERS
APPROVED BY	J.F. GORHAM
DATE	10



PLAN OF RAILING

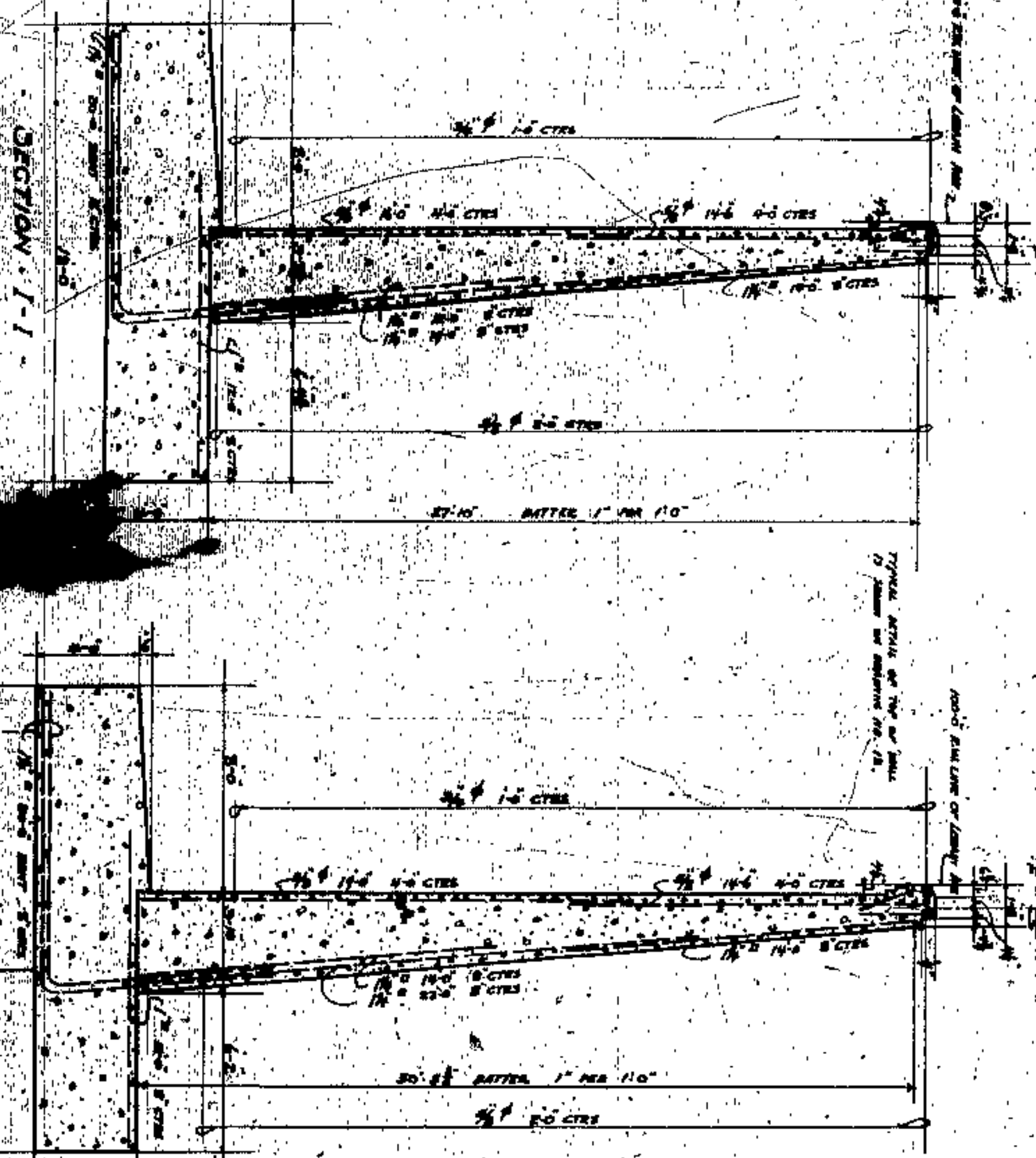


ELEVATION OF SOUTH WALL - SOUTH FACE SHOWN  
 BETWEEN THE CLEVELAND UNION TERMINALS CO'S LORAIN AVE BRIDGE AND COLUMBUS ROAD  
 SEE DRAWING NO. 1 FOR LOCATION  
 SCALE 1/8" = 1'-0"



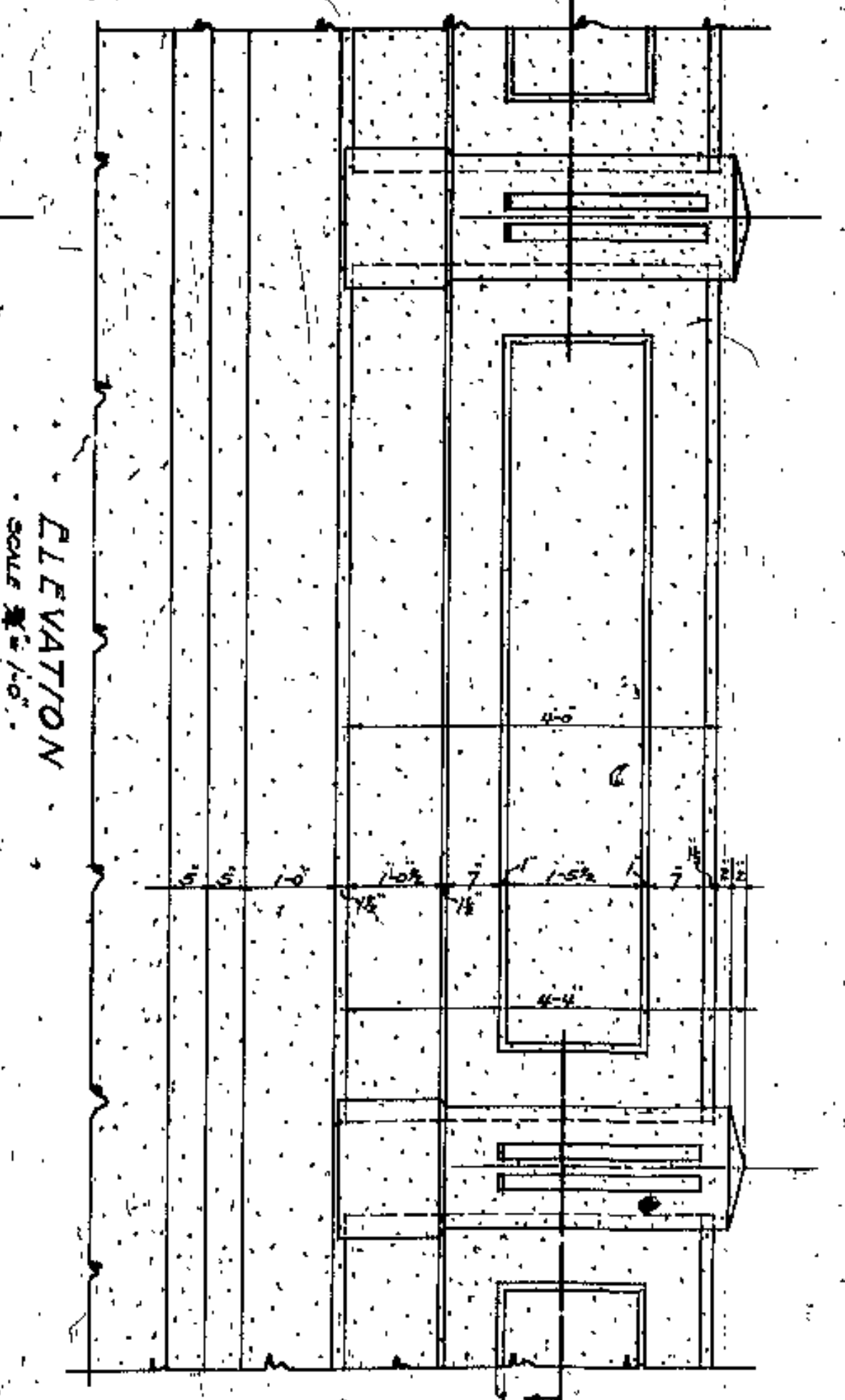
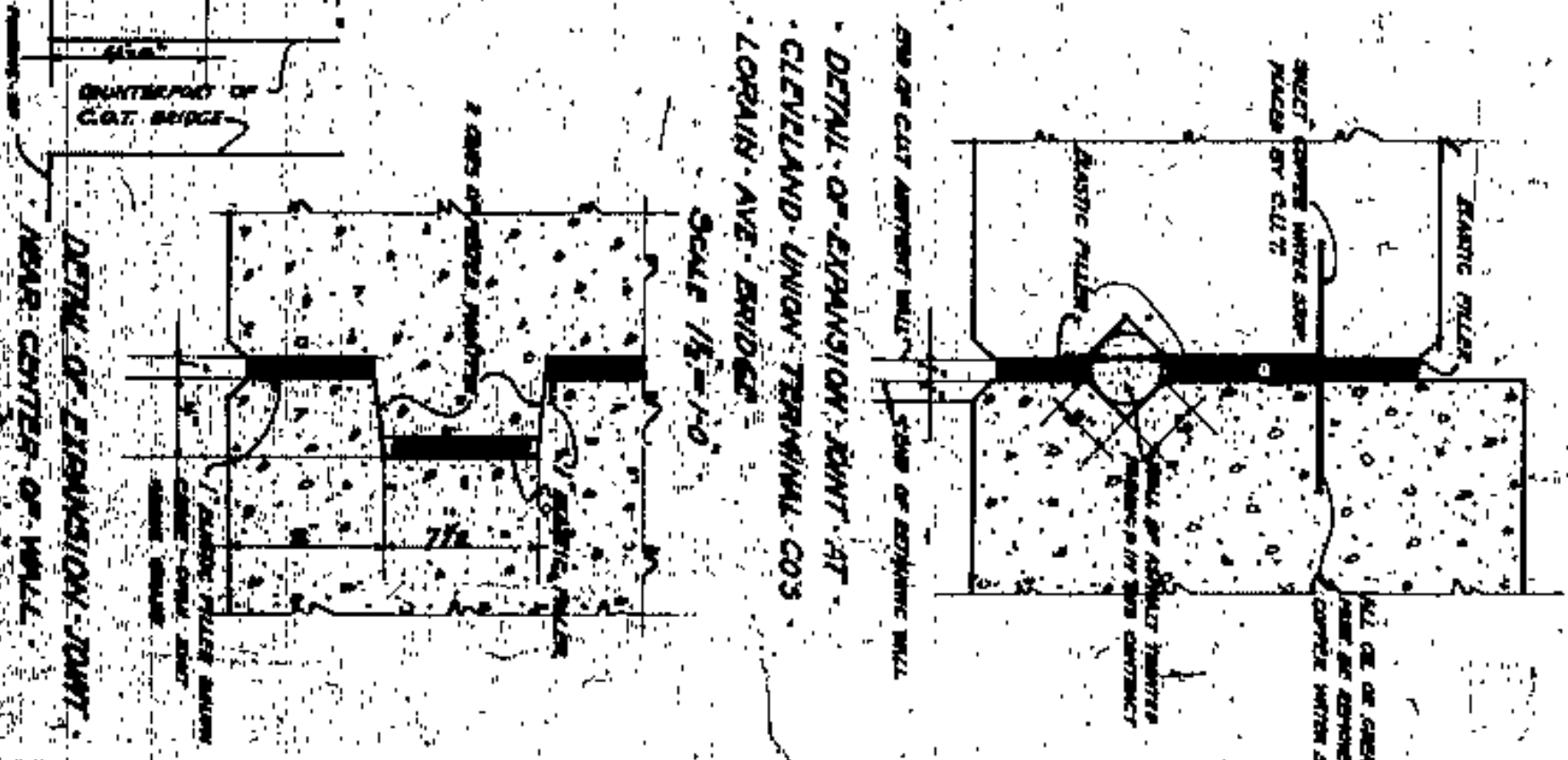
PLAN OF SOUTH WALL

SCALE 1/8" = 1'-0"



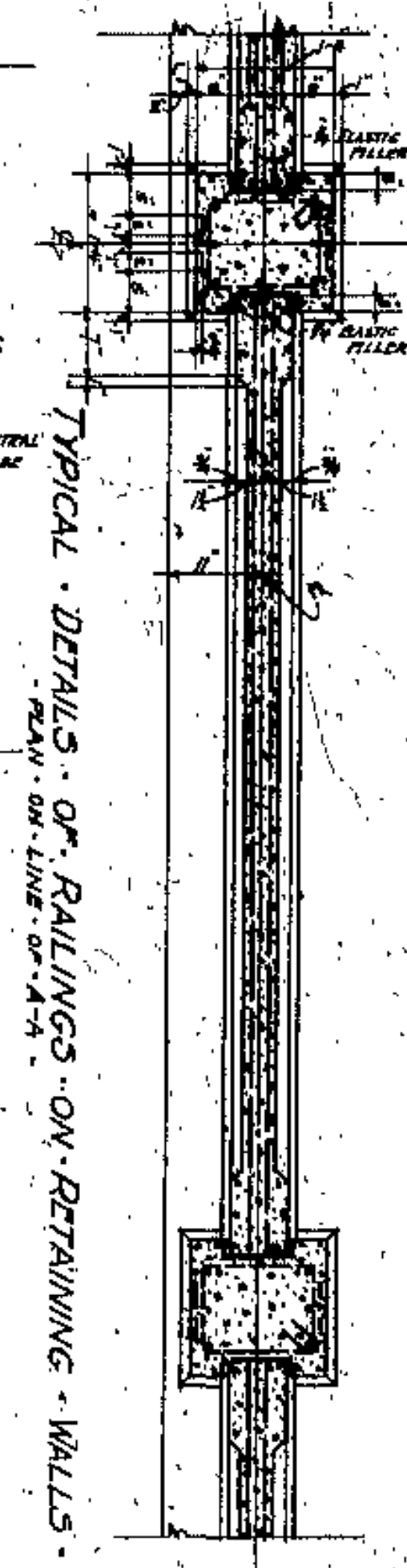
SECTION I-I

SECTION J-J



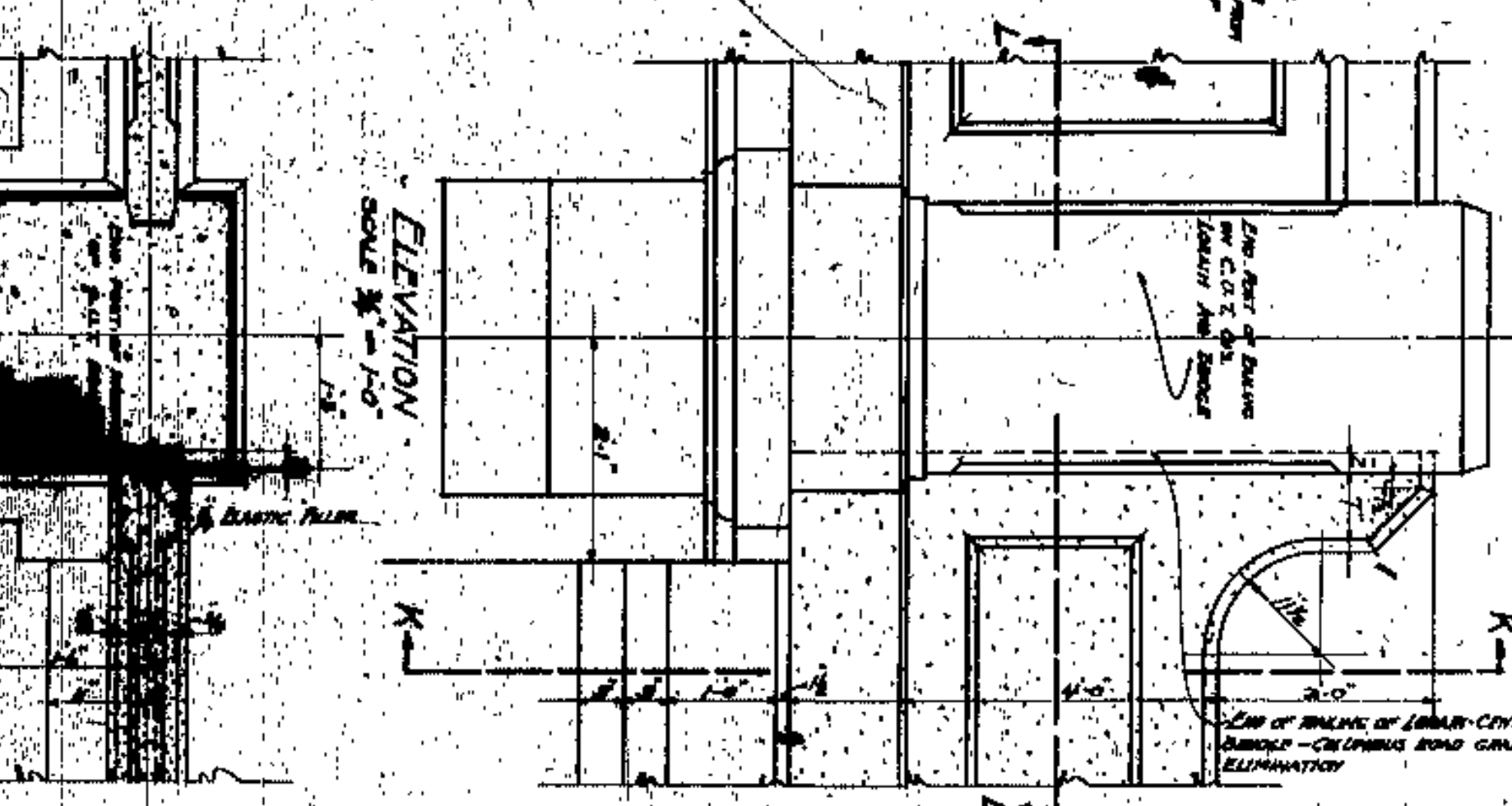
ELEVATION

SCALE 1/8" = 1'-0"



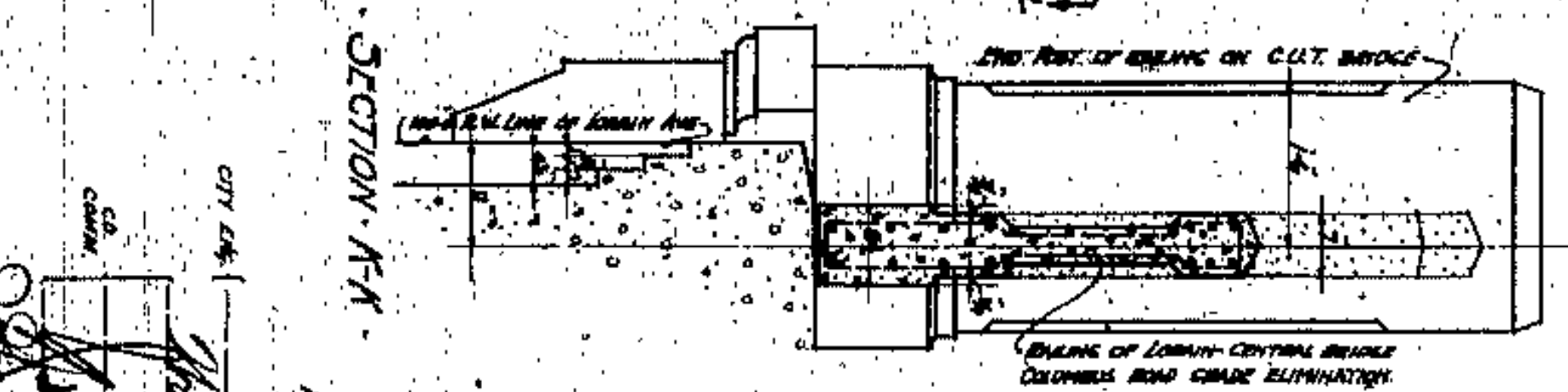
TYPICAL DETAILS OF RAILINGS ON RETAINING WALLS

SCALE 1/8" = 1'-0"



ELEVATION

SCALE 1/8" = 1'-0"



SECTION A-A



SECTION B-B

APPROVED BY

*[Signature]*

WILLBUR WATSON AND ASSOCIATES  
 CONSULTING ARCHITECTS & ENGINEERS  
 CLEVELAND

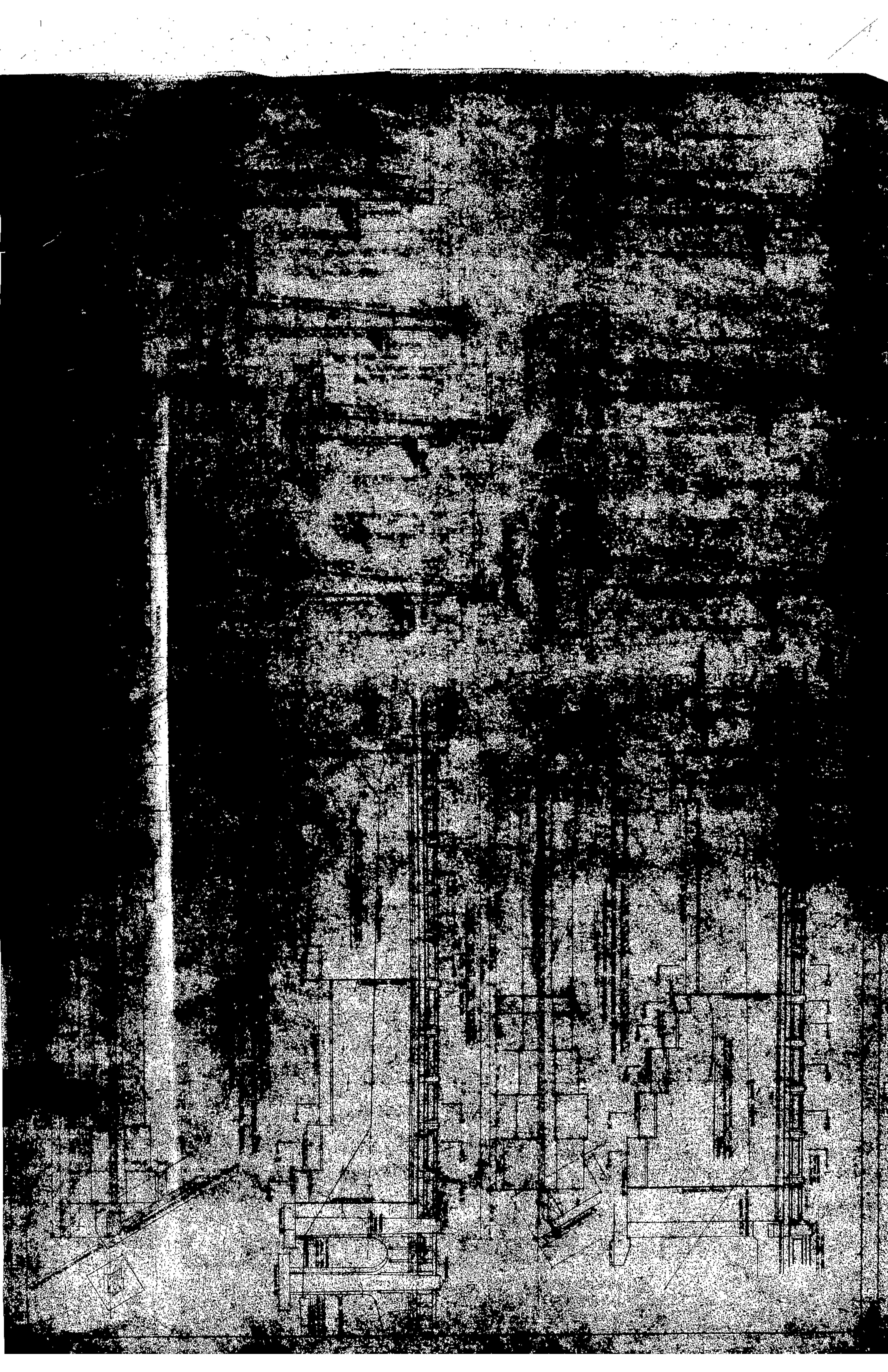
CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SUPERVISOR  
 J. H. HARRIS  
 J. E. GOERMAN

COLUMBUS ROAD GRADE ELIMINATION  
 CLEVELAND

DETAILS OF RETAINING WALL & RAILING  
 SCALE 1/8" = 1'-0"

NO.	DATE	BY	FOR
1	10/1/19	W.W.	FOR REVIEW
2	10/15/19	W.W.	FOR REVIEW
3	10/22/19	W.W.	FOR REVIEW
4	11/5/19	W.W.	FOR REVIEW
5	11/12/19	W.W.	FOR REVIEW
6	11/19/19	W.W.	FOR REVIEW
7	11/26/19	W.W.	FOR REVIEW
8	12/3/19	W.W.	FOR REVIEW
9	12/10/19	W.W.	FOR REVIEW
10	12/17/19	W.W.	FOR REVIEW
11	12/24/19	W.W.	FOR REVIEW
12	1/7/20	W.W.	FOR REVIEW
13	1/14/20	W.W.	FOR REVIEW
14	1/21/20	W.W.	FOR REVIEW
15	1/28/20	W.W.	FOR REVIEW
16	2/4/20	W.W.	FOR REVIEW
17	2/11/20	W.W.	FOR REVIEW
18	2/18/20	W.W.	FOR REVIEW
19	2/25/20	W.W.	FOR REVIEW
20	3/4/20	W.W.	FOR REVIEW
21	3/11/20	W.W.	FOR REVIEW
22	3/18/20	W.W.	FOR REVIEW
23	3/25/20	W.W.	FOR REVIEW
24	4/1/20	W.W.	FOR REVIEW
25	4/8/20	W.W.	FOR REVIEW
26	4/15/20	W.W.	FOR REVIEW
27	4/22/20	W.W.	FOR REVIEW
28	4/29/20	W.W.	FOR REVIEW
29	5/6/20	W.W.	FOR REVIEW
30	5/13/20	W.W.	FOR REVIEW
31	5/20/20	W.W.	FOR REVIEW
32	5/27/20	W.W.	FOR REVIEW
33	6/3/20	W.W.	FOR REVIEW
34	6/10/20	W.W.	FOR REVIEW
35	6/17/20	W.W.	FOR REVIEW
36	6/24/20	W.W.	FOR REVIEW
37	7/1/20	W.W.	FOR REVIEW
38	7/8/20	W.W.	FOR REVIEW
39	7/15/20	W.W.	FOR REVIEW
40	7/22/20	W.W.	FOR REVIEW
41	7/29/20	W.W.	FOR REVIEW
42	8/5/20	W.W.	FOR REVIEW
43	8/12/20	W.W.	FOR REVIEW
44	8/19/20	W.W.	FOR REVIEW
45	8/26/20	W.W.	FOR REVIEW
46	9/2/20	W.W.	FOR REVIEW
47	9/9/20	W.W.	FOR REVIEW
48	9/16/20	W.W.	FOR REVIEW
49	9/23/20	W.W.	FOR REVIEW
50	9/30/20	W.W.	FOR REVIEW
51	10/7/20	W.W.	FOR REVIEW
52	10/14/20	W.W.	FOR REVIEW
53	10/21/20	W.W.	FOR REVIEW
54	10/28/20	W.W.	FOR REVIEW
55	11/4/20	W.W.	FOR REVIEW
56	11/11/20	W.W.	FOR REVIEW
57	11/18/20	W.W.	FOR REVIEW
58	11/25/20	W.W.	FOR REVIEW
59	12/2/20	W.W.	FOR REVIEW
60	12/9/20	W.W.	FOR REVIEW
61	12/16/20	W.W.	FOR REVIEW
62	12/23/20	W.W.	FOR REVIEW
63	12/30/20	W.W.	FOR REVIEW
64	1/6/21	W.W.	FOR REVIEW
65	1/13/21	W.W.	FOR REVIEW
66	1/20/21	W.W.	FOR REVIEW
67	1/27/21	W.W.	FOR REVIEW
68	2/3/21	W.W.	FOR REVIEW
69	2/10/21	W.W.	FOR REVIEW
70	2/17/21	W.W.	FOR REVIEW
71	2/24/21	W.W.	FOR REVIEW
72	3/2/21	W.W.	FOR REVIEW
73	3/9/21	W.W.	FOR REVIEW
74	3/16/21	W.W.	FOR REVIEW
75	3/23/21	W.W.	FOR REVIEW
76	3/30/21	W.W.	FOR REVIEW
77	4/6/21	W.W.	FOR REVIEW
78	4/13/21	W.W.	FOR REVIEW
79	4/20/21	W.W.	FOR REVIEW
80	4/27/21	W.W.	FOR REVIEW
81	5/4/21	W.W.	FOR REVIEW
82	5/11/21	W.W.	FOR REVIEW
83	5/18/21	W.W.	FOR REVIEW
84	5/25/21	W.W.	FOR REVIEW
85	6/1/21	W.W.	FOR REVIEW
86	6/8/21	W.W.	FOR REVIEW
87	6/15/21	W.W.	FOR REVIEW
88	6/22/21	W.W.	FOR REVIEW
89	6/29/21	W.W.	FOR REVIEW
90	7/6/21	W.W.	FOR REVIEW
91	7/13/21	W.W.	FOR REVIEW
92	7/20/21	W.W.	FOR REVIEW
93	7/27/21	W.W.	FOR REVIEW
94	8/3/21	W.W.	FOR REVIEW
95	8/10/21	W.W.	FOR REVIEW
96	8/17/21	W.W.	FOR REVIEW
97	8/24/21	W.W.	FOR REVIEW
98	8/31/21	W.W.	FOR REVIEW
99	9/7/21	W.W.	FOR REVIEW
100	9/14/21	W.W.	FOR REVIEW



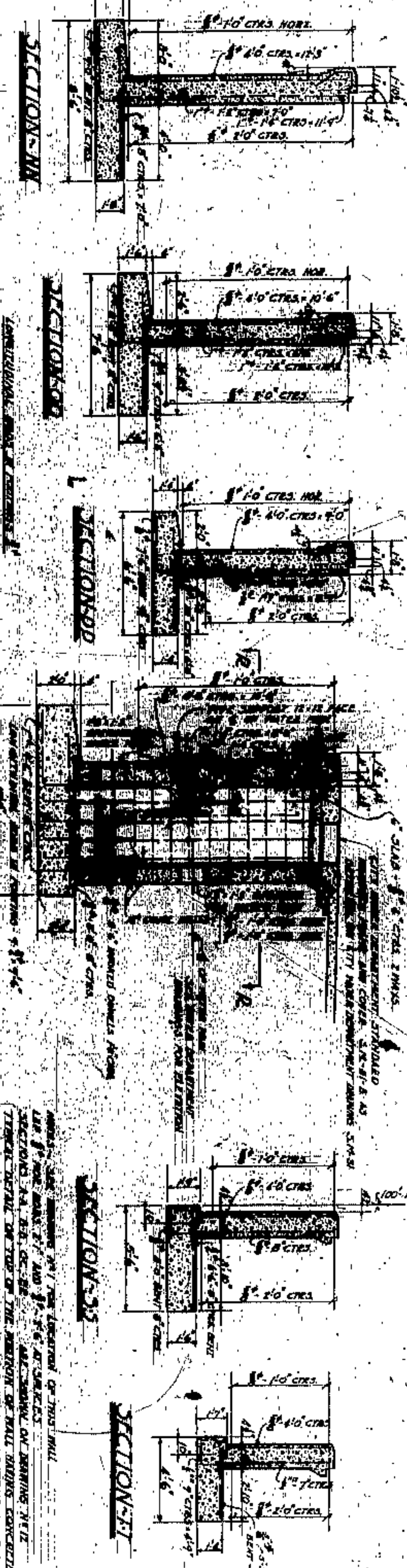
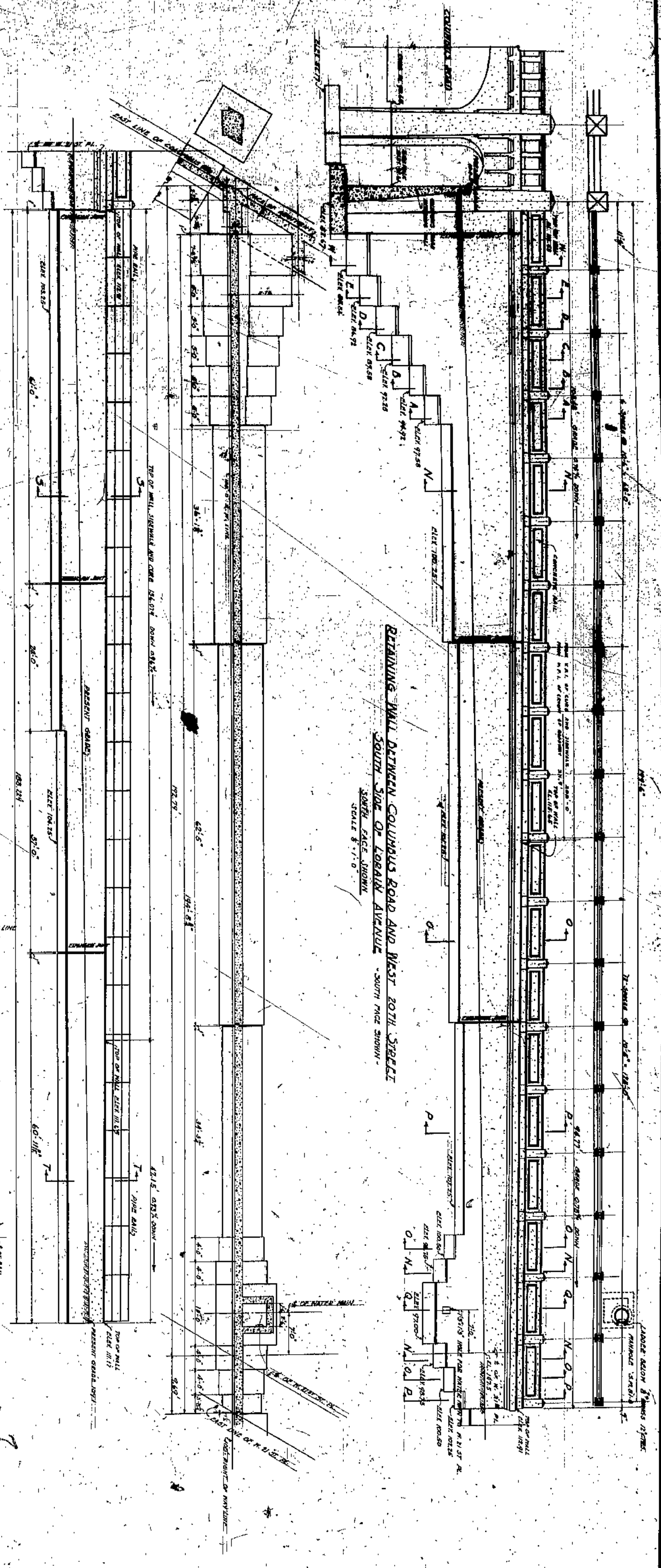




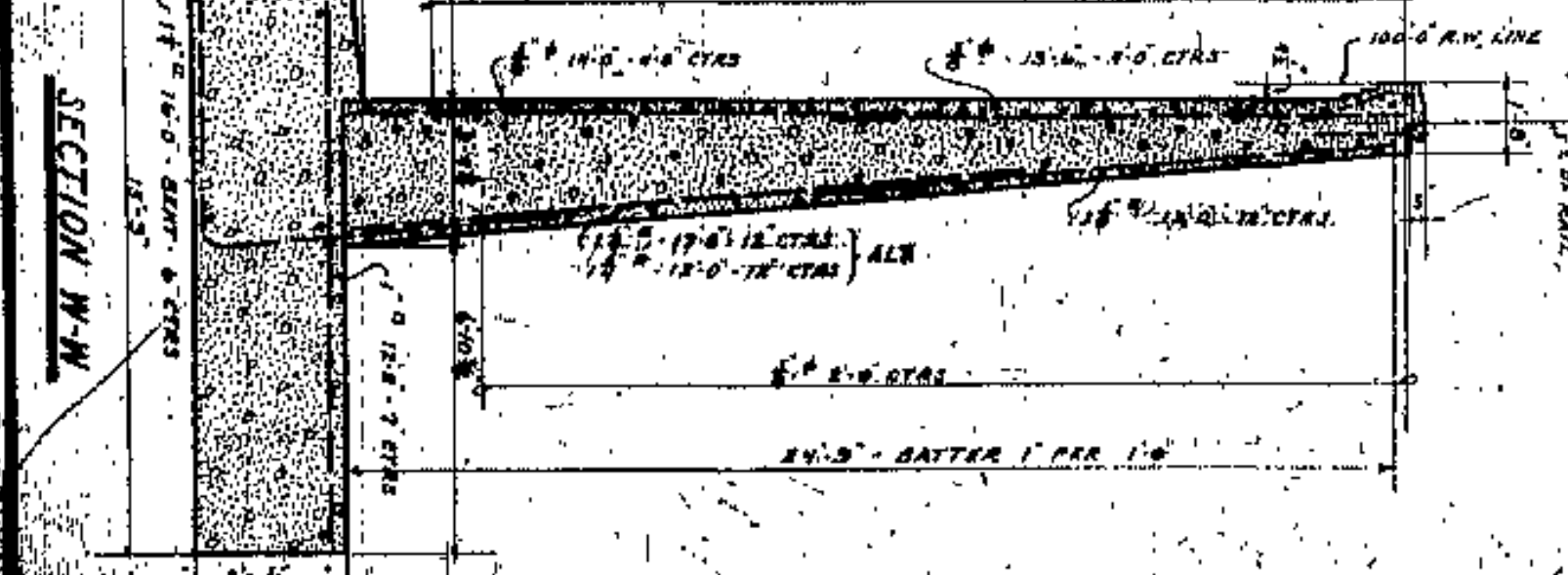




RETAINING WALL BETWEEN COLUMBUS ROAD AND WEST BOTH STREETS  
 SOUTH SIDE OF LORAIN AVENUE - SOUTH FACE VIEW  
 SCALE 1/4" = 1'-0"



SECTION M  
 SECTION O  
 SECTION P  
 SECTION Q  
 SECTION R  
 SECTION S  
 SECTION T



CITY ENG  
 APPROVED BY  
 J. H. HARRIS

BOARD OF COMMISSIONERS  
 COUNTY SUPERVISOR  
 W. E. COOK  
 J. H. HARRIS  
 L. F. BOGEMAN

CUYAHOGA COUNTY  
 COUNTY BRIDGE ENGINEER  
 A. M. FELGATE

LORAIN CENTRAL BRIDGE  
 COLUMBUS ROAD GRADE ELIMINATION  
 CLEVELAND

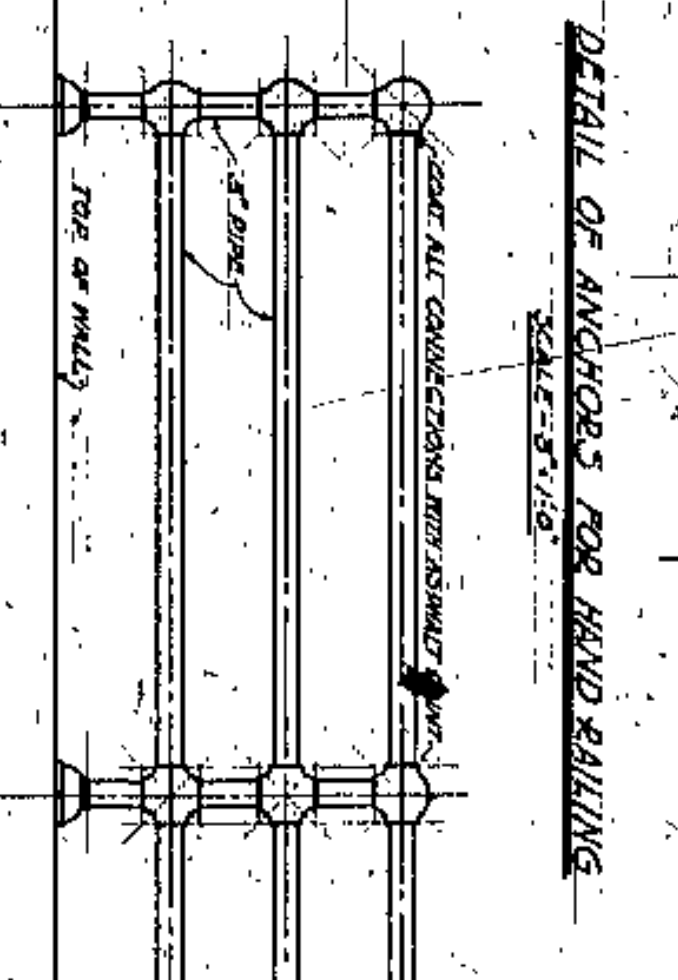
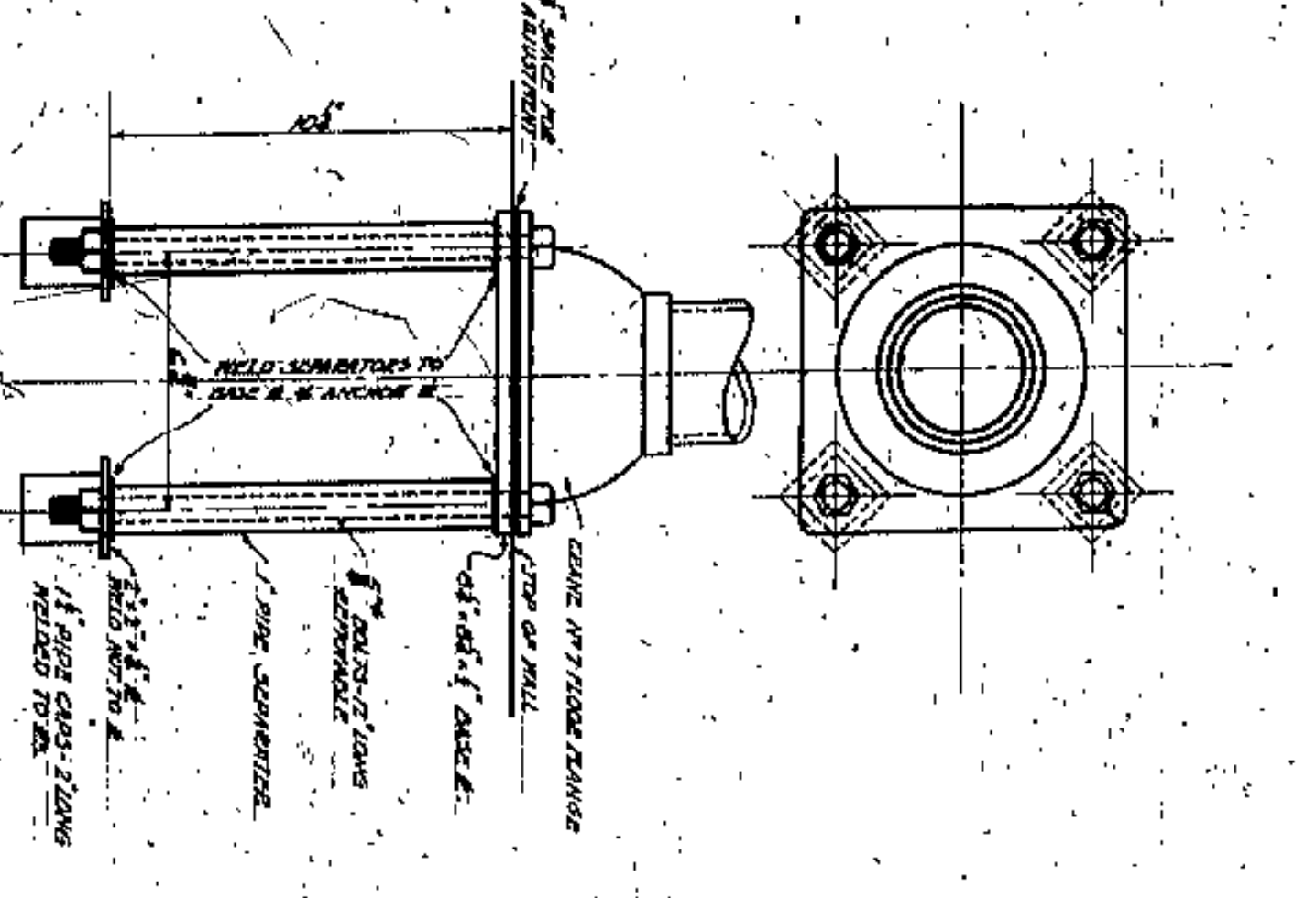
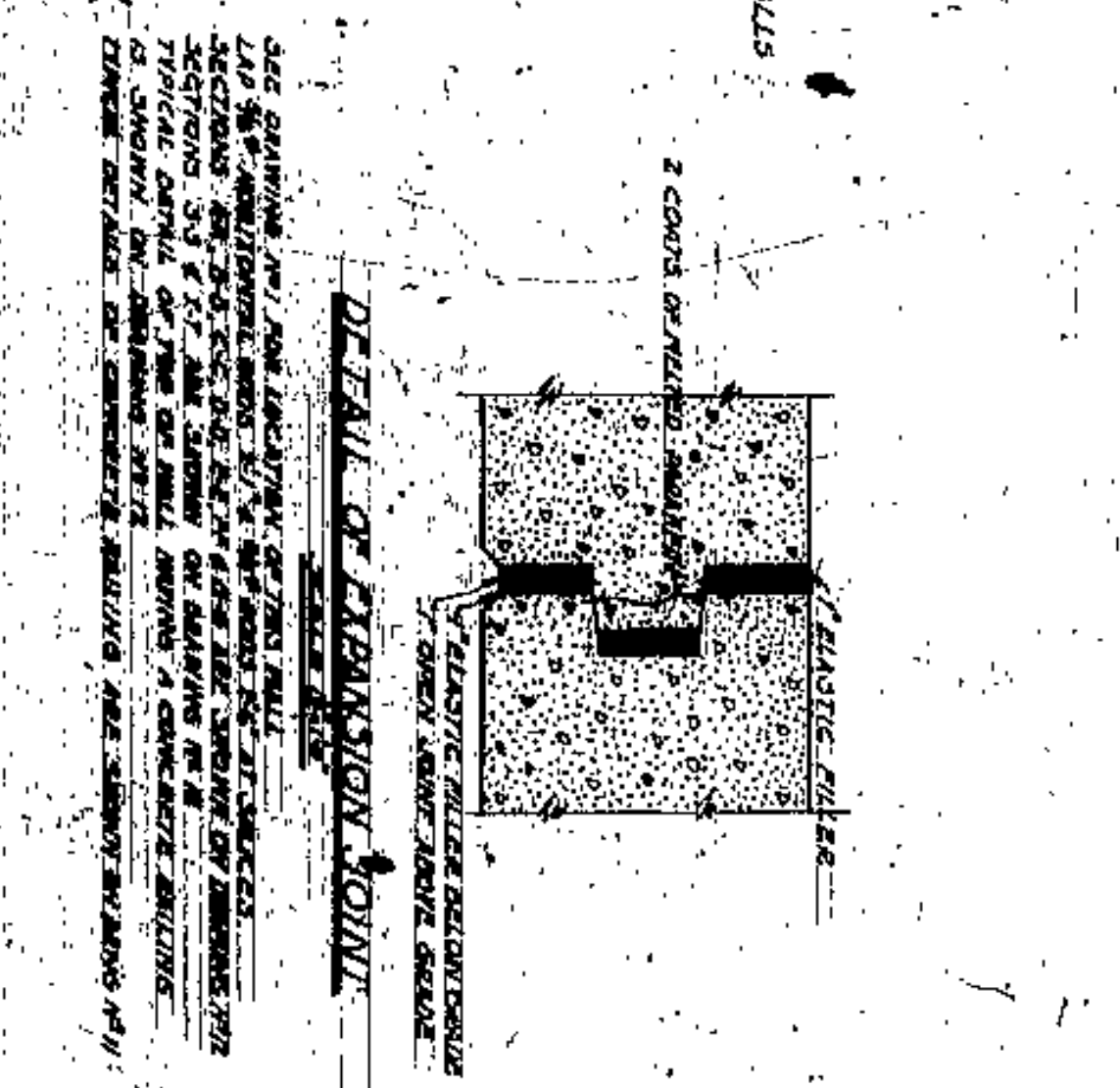
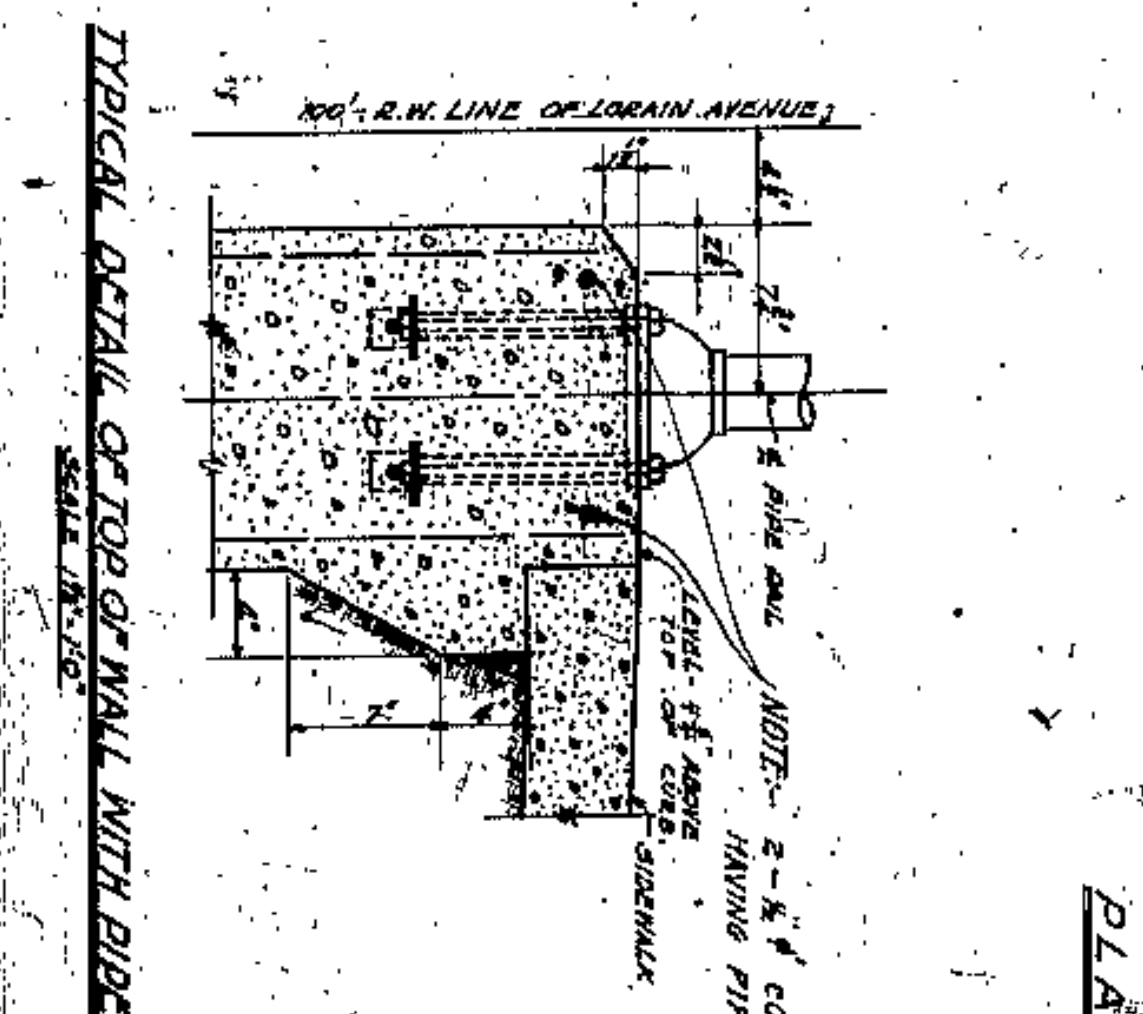
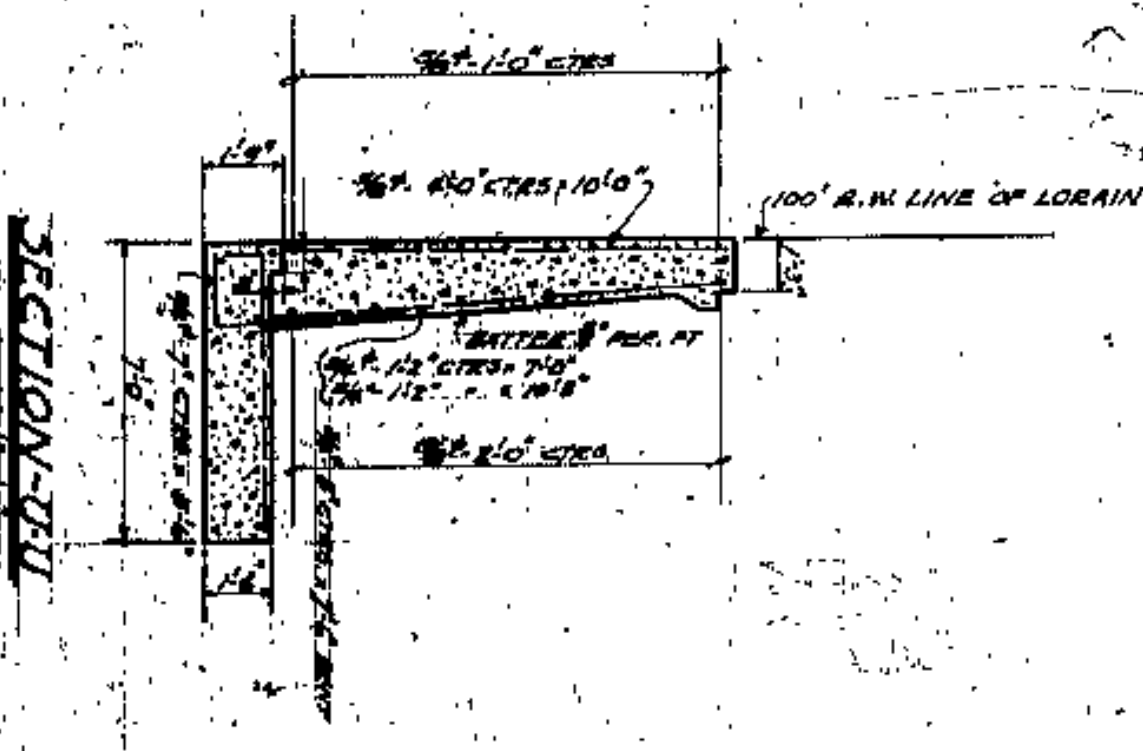
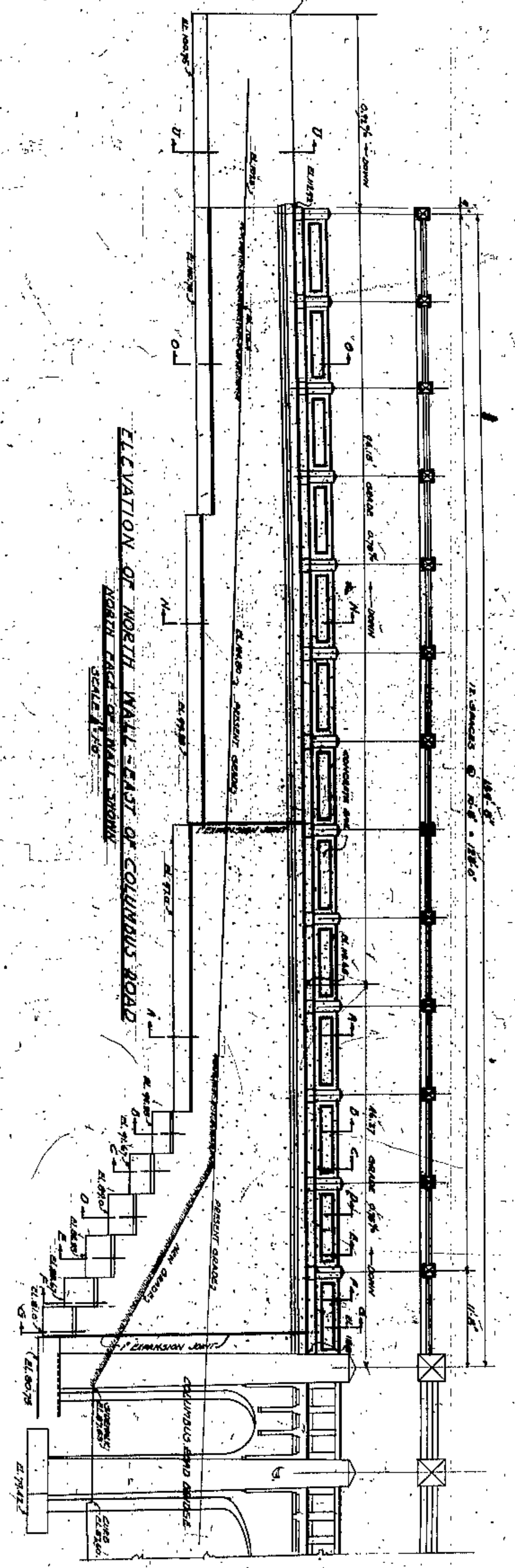
RETAINING WALL EAST OF COLUMBUS ROAD  
 SOUTH SIDE OF LORAIN AVENUE

SCALE 1/4" = 1'-0"

WILBUR WATSON AND ASSOCIATES  
 CONSULTING ARCHITECTS & ENGINEERS  
 CLEVELAND

1371  
 1/3





NOTE: SET OF SQUARES, 1/8\"/>

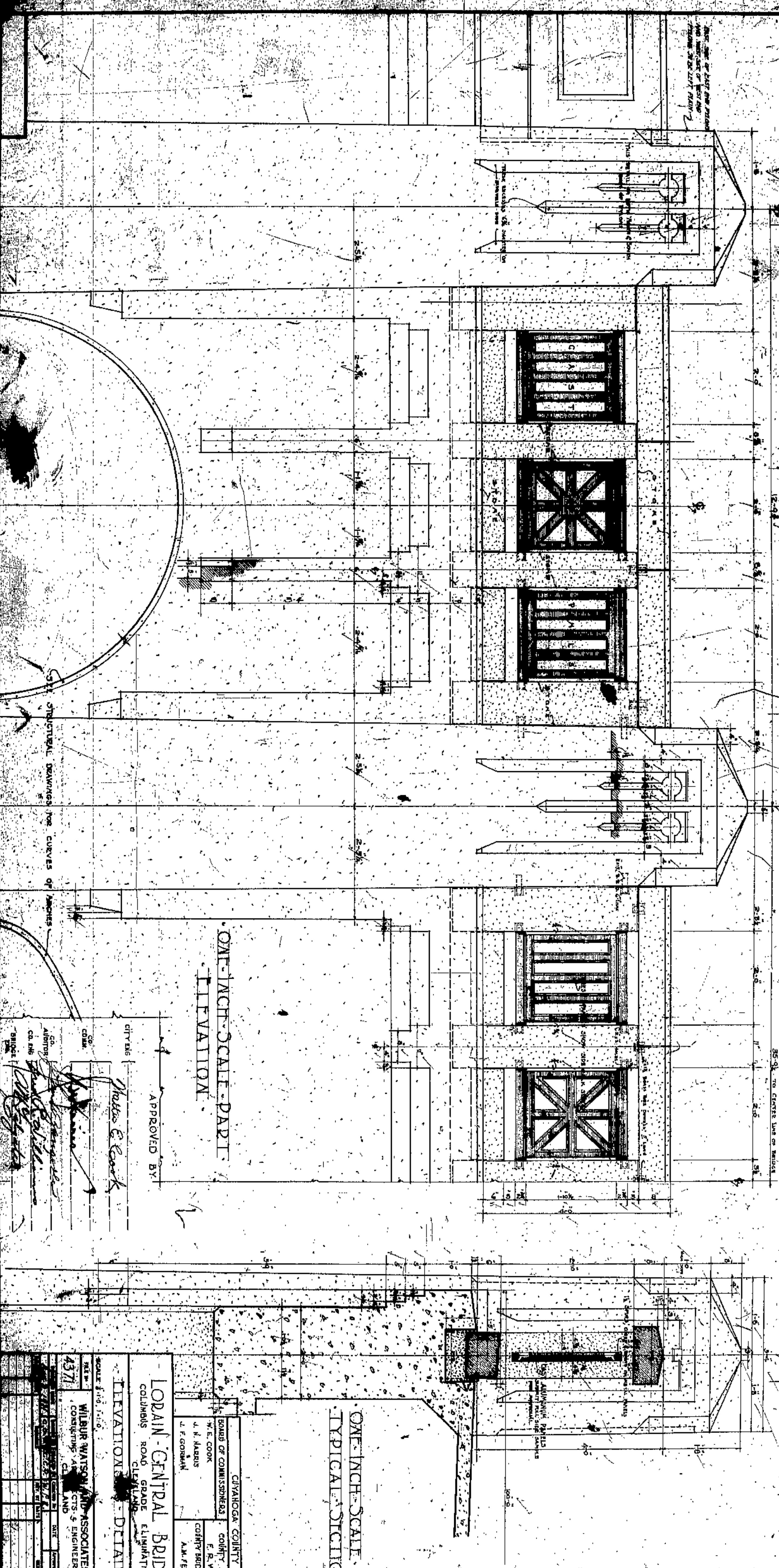
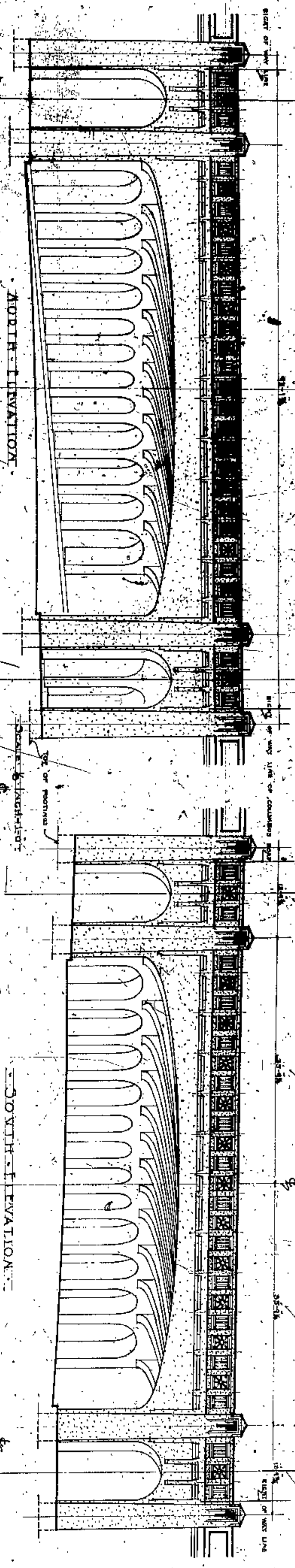
APPROVED BY  
 J. H. COOK  
 COUNTY BRIDGE ENGINEER  
 AM. FELDGE

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY ENGINEER  
 J. H. COOK  
 COUNTY BRIDGE ENGINEER  
 AM. FELDGE

LORAIN - CENTRAL BRIDGE  
 RETAINING WALL EAST OF COLUMBUS ROAD  
 NORTH SIDE OF LORAIN AVENUE  
 CLEVELAND

FILE NO.	4377
DATE	1/14
DESIGNED BY	WILBUR WATSON
CHECKED BY	W. E. COOK
DATE	1/14
SCALE	1/8\"/>





ONE-INCH SCALE PART ELEVATION

ONE-INCH SCALE TYPICAL SECTION

LODAIN CENTRAL BRIDGE  
 COLUMBUS ROAD GRADE ELIMINATION  
 CLEVELAND, OHIO

ELEVATIONS - DETAILS

WILBUR WATSON AND ASSOCIATES  
 CONSULTING ARCHITECTS AND ENGINEERS  
 4371

APPROVED BY  
 Charles E. Cook  
 City Engineer

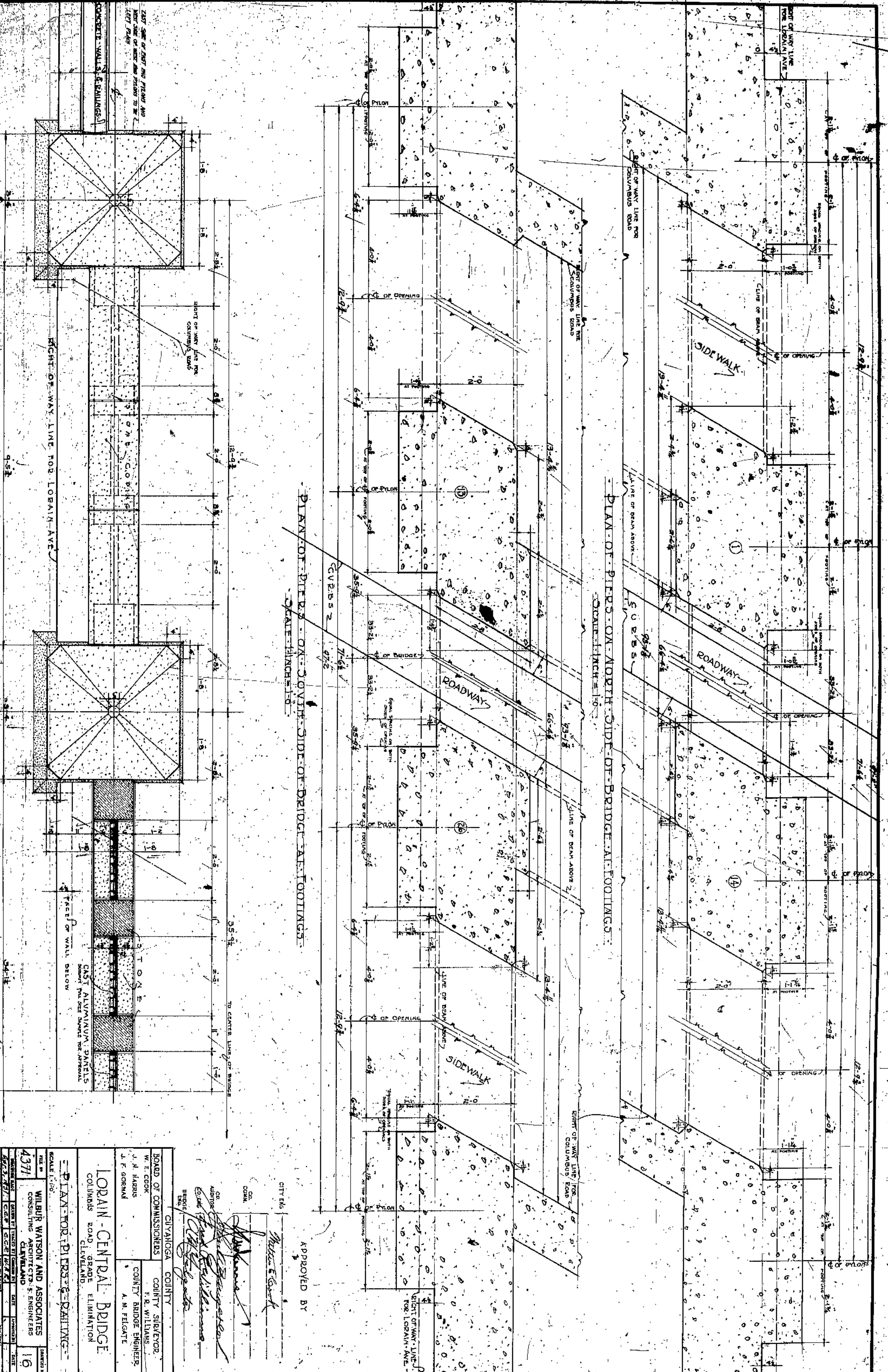
SCALE 1/8" = 1'-0"	DATE	BY
NO. 4371	1/15	W.W.
PROJECT	LODAIN CENTRAL BRIDGE	
CLIENT	CITY OF CLEVELAND	
DESIGNED BY	W.W.	
CHECKED BY	J.W.	
DATE	1/15	



PLAN OF PIERS ON NORTH SIDE OF BRIDGE AND FOOTINGS  
SCALE: 1" = 10'

PLAN OF PIERS ON SOUTH SIDE OF BRIDGE AND FOOTINGS  
SCALE: 1" = 10'

ONE-FOURTH SCALE PLAN OF BRIDGE PILING



CITY ENG. *W. E. Cook*

APPROVED BY *W. E. Cook*

BOARD OF COMMISSIONERS  
CITY OF CLEVELAND

BOARD OF COMMISSIONERS  
COUNTY SUPERVISOR  
F. R. WILLIAMS

COUNTY BRIDGE ENGINEER  
A. M. FELGATE

CONTRACTOR  
*W. E. Cook*

ENGINEER  
*W. E. Cook*

ARCHITECT  
*W. E. Cook*

SCALE 1" = 10'

LORAIN - CENTRAL BRIDGE  
COLUMBUS ROAD GRADE ELIMINATION  
CLEVELAND

PLAN FOR PIERS & PILING

WILBUR WATSON AND ASSOCIATES  
CONSULTING ARCHITECTS & ENGINEERS  
CLEVELAND

FILE NO. 4371

DATE 1/19

NO. 19

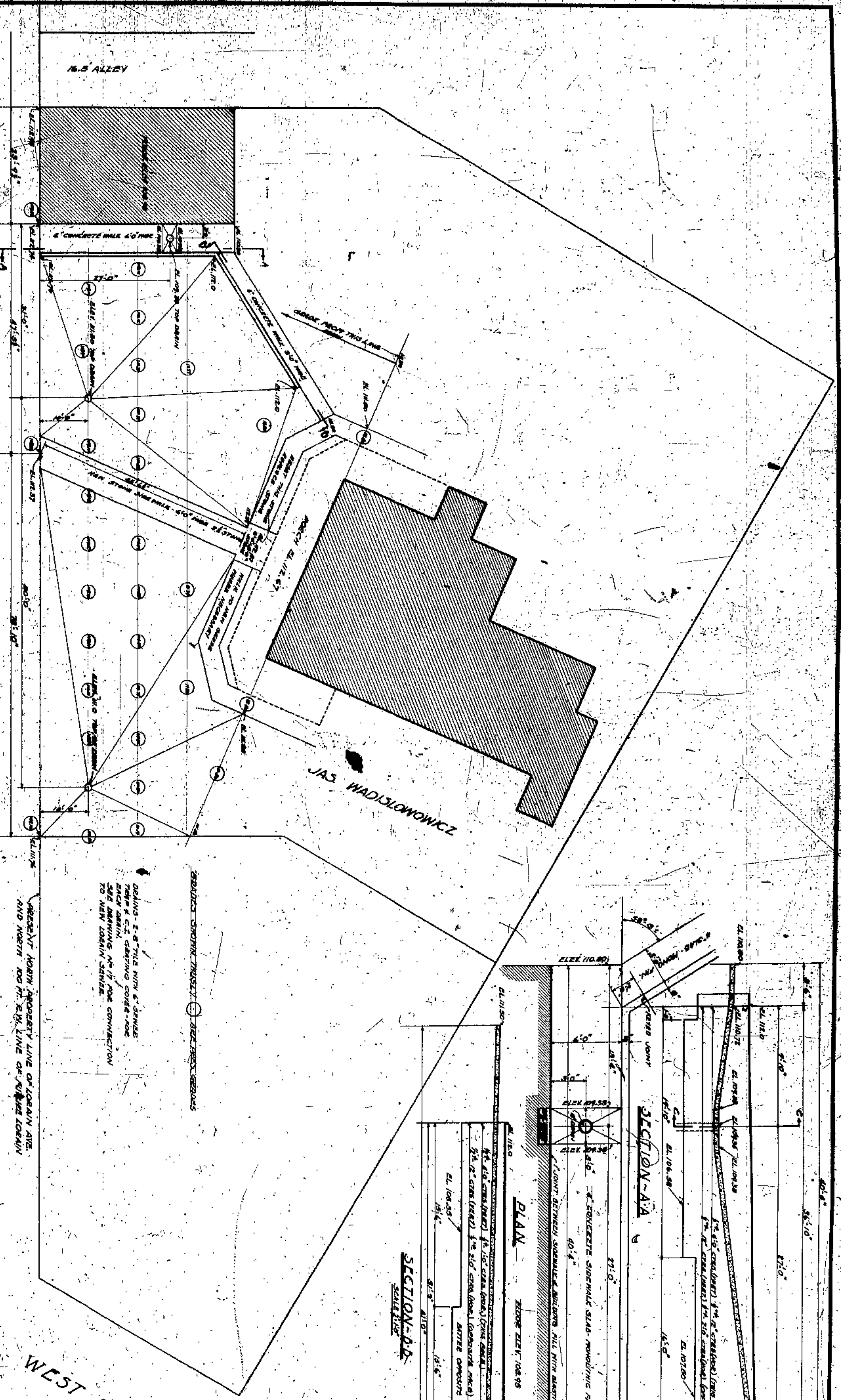






PROFILE ON NORTH PROPERTY LINE OF LORAIN AVE.

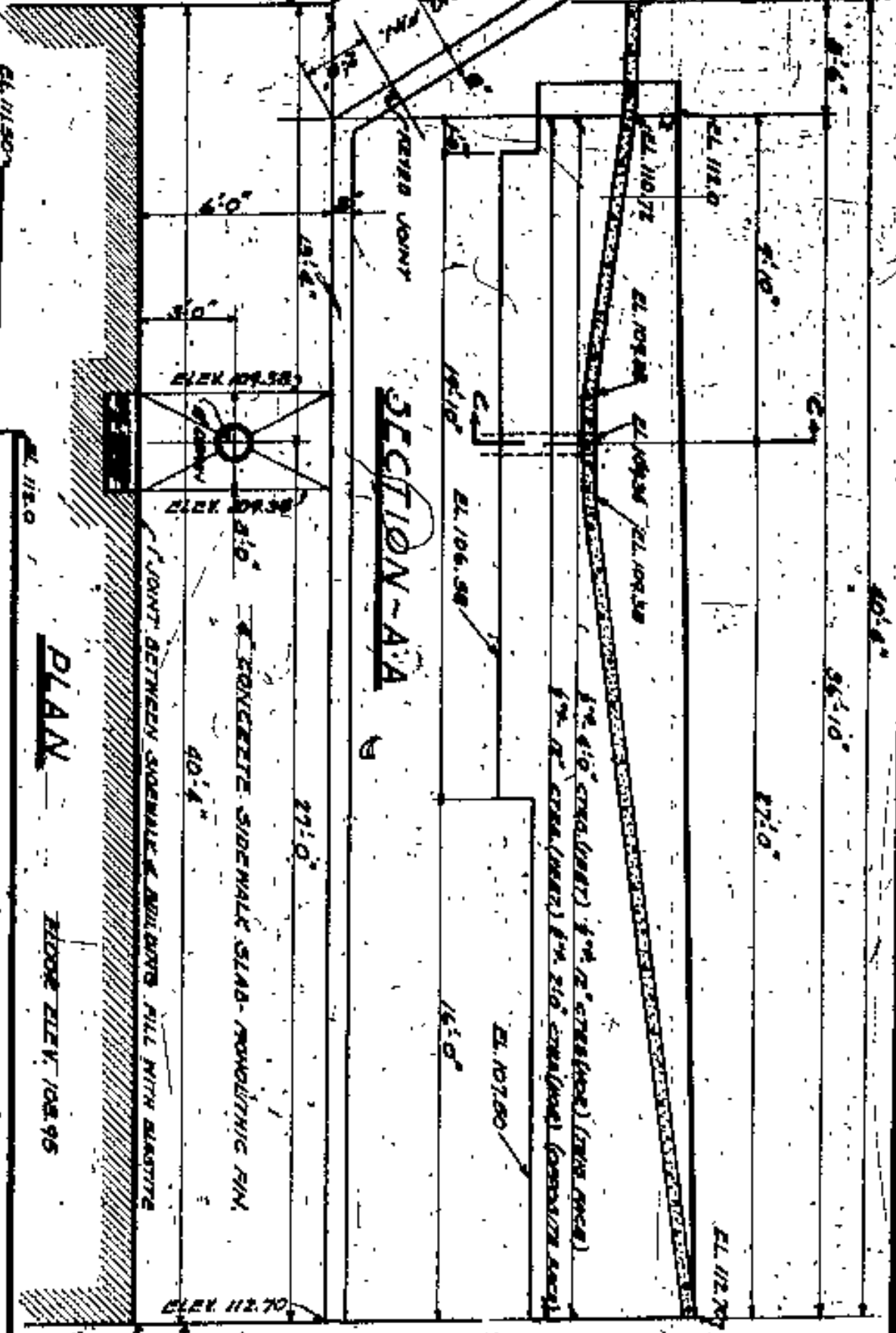
LORAIN AVENUE  
SCALE 8"=10'



DOING 2" x 8" TIE WITH 6" SPACES  
THRU & C.T. STARTING 50'-0" FOR  
EACH ABUT. SEE DRAWING NO. 17 FOR CONNECTION  
TO NEW LORAIN BRIDGE.

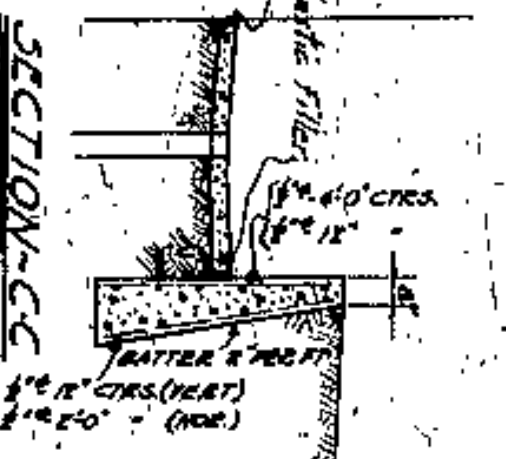
REPLACE EXISTING TRUNK & BELTLINE SEWERS

REPLACE NORTH PROPERTY LINE OF LORAIN AVE.  
AND NORTH 100 FT. E.W. LINE OF ADJ. LORAIN



PLAN

SECTION-B-B  
SCALE 1"=10'



WEST 20TH ST

APPROVED BY

*[Signatures]*  
CITY ENGINEER  
COUNTY ENGINEER

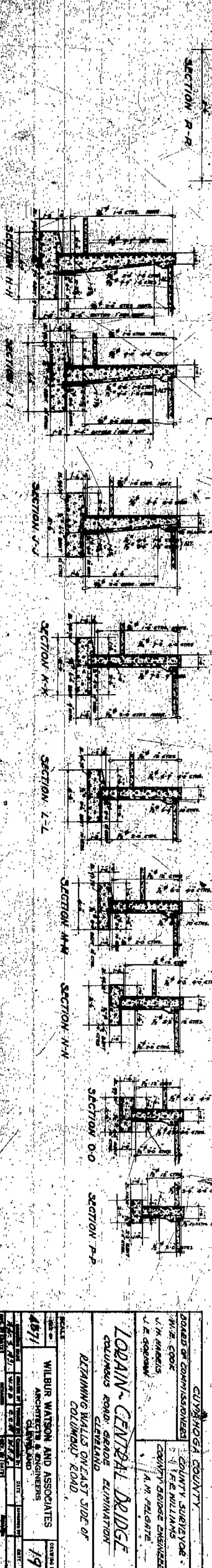
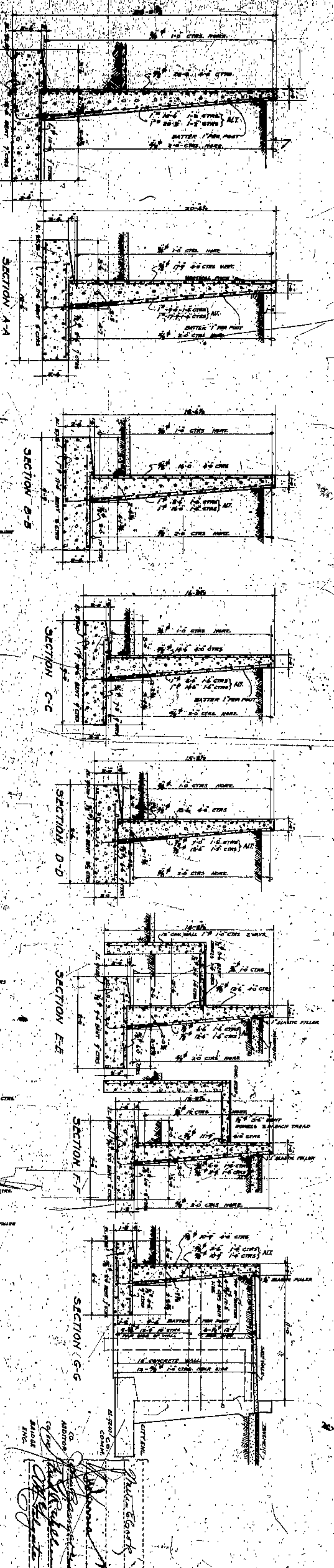
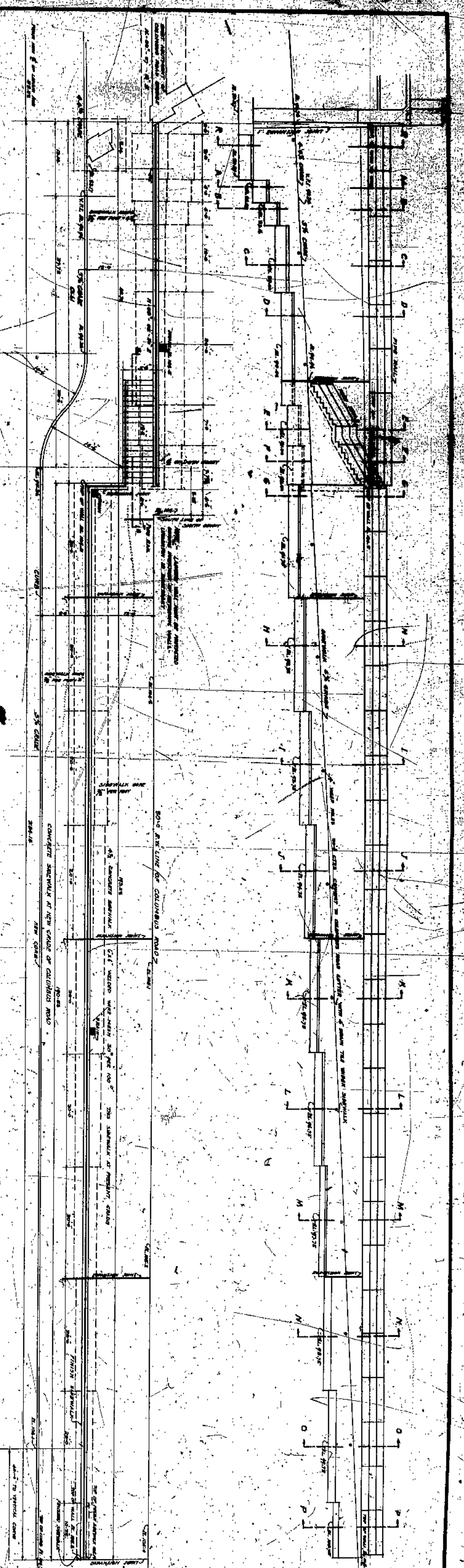
CITY OF CLEVELAND  
BOARD OF COMMISSIONERS  
COUNTY ENGINEER  
F. B. WILLIAMS  
COUNTY BRIDGE ENGINEER  
A. H. FELDMAN

LORAIN-CENTRAL BRIDGE  
GRADE CHANGES AND RETAINING WALLS  
BY PROPERTY OF JAS. WADISLONOWICZ  
CLEVELAND, OHIO

WILBUR WATSON AND ASSOCIATES  
CONSULTING ARCHITECTS & ENGINEERS  
CLEVELAND, OHIO

FILE NO.	4371
DATE	1/8
BY	W. W. W.
CHECKED BY	
APPROVED BY	





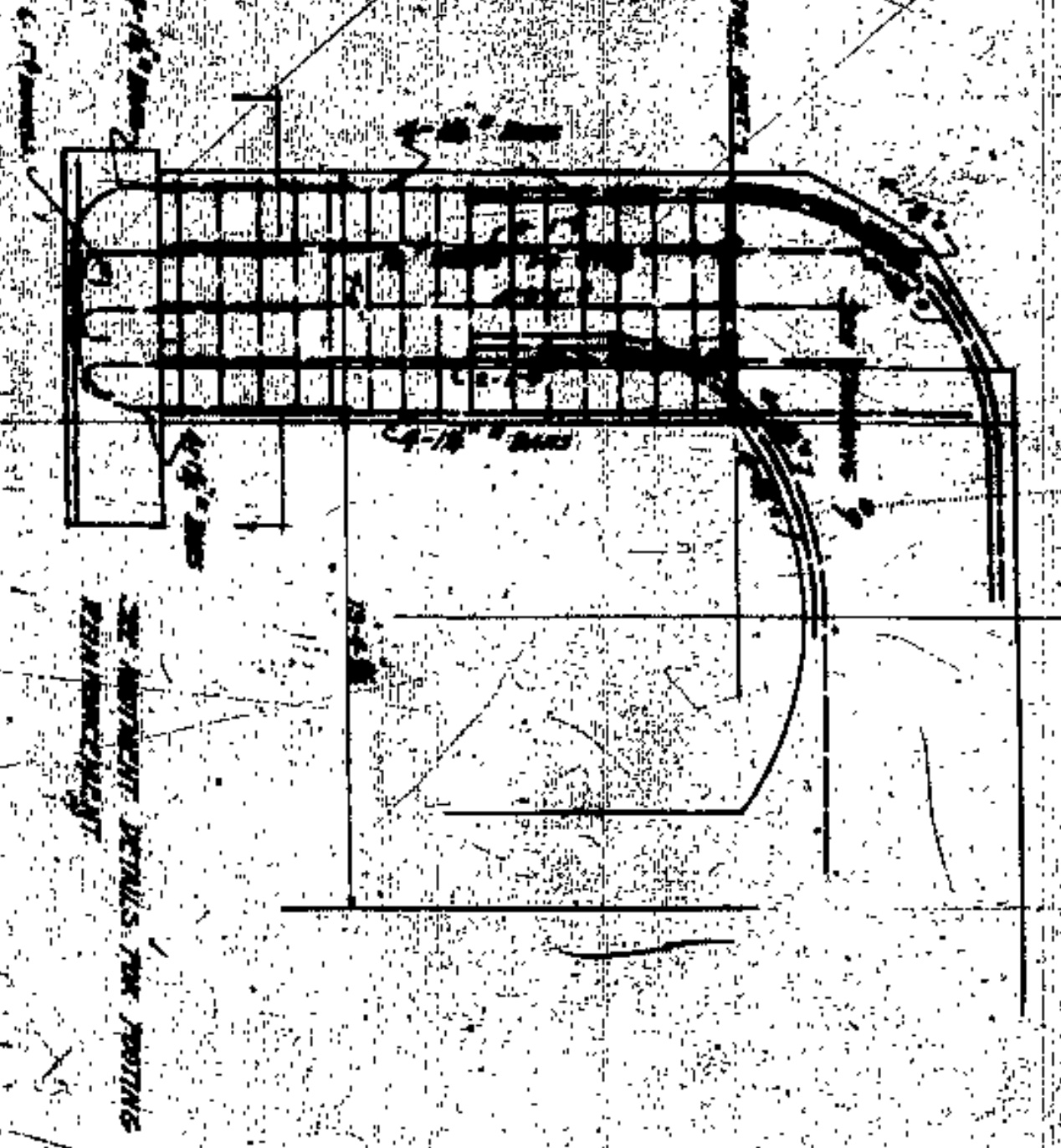
City of Lorain  
 City Engineer  
 J. H. Williams  
 City of Lorain  
 City Engineer  
 J. H. Williams

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 W. E. COOK  
 COUNTY ENGINEER  
 L. H. WILBUR  
 COUNTY ENGINEER  
 J. E. GOSWAMI

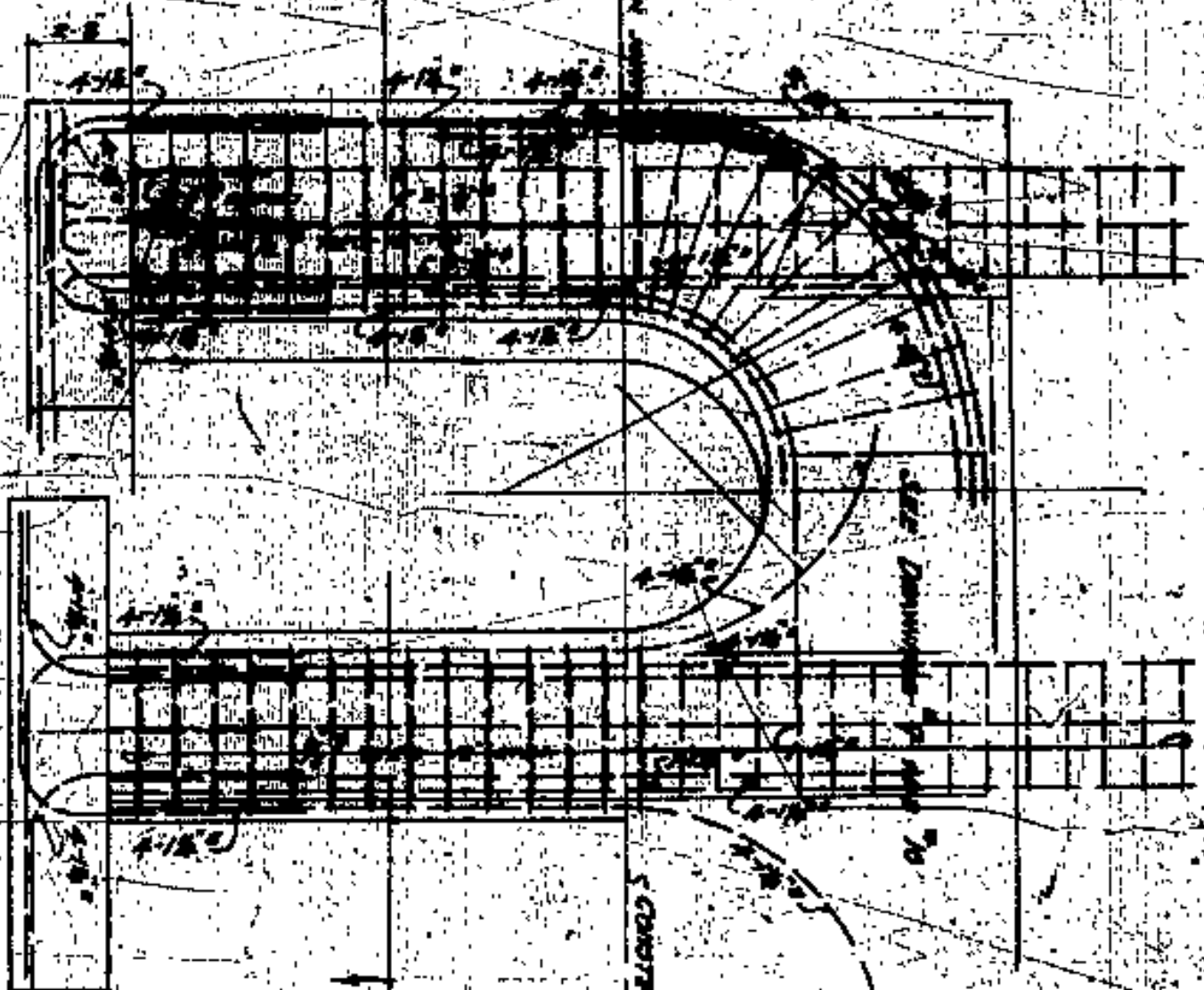
**LORAIN CENTRAL BRIDGE**  
 COLUMBUS ROAD GRADE ELIMINATION  
 CLEVELAND  
 REMAINING WALLS ON EAST SIDE OF  
 COLUMBUS ROAD

WILBUR WATSON AND ASSOCIATES  
 ARCHITECTS & ENGINEERS  
 CLEVELAND  
 4871  
 19

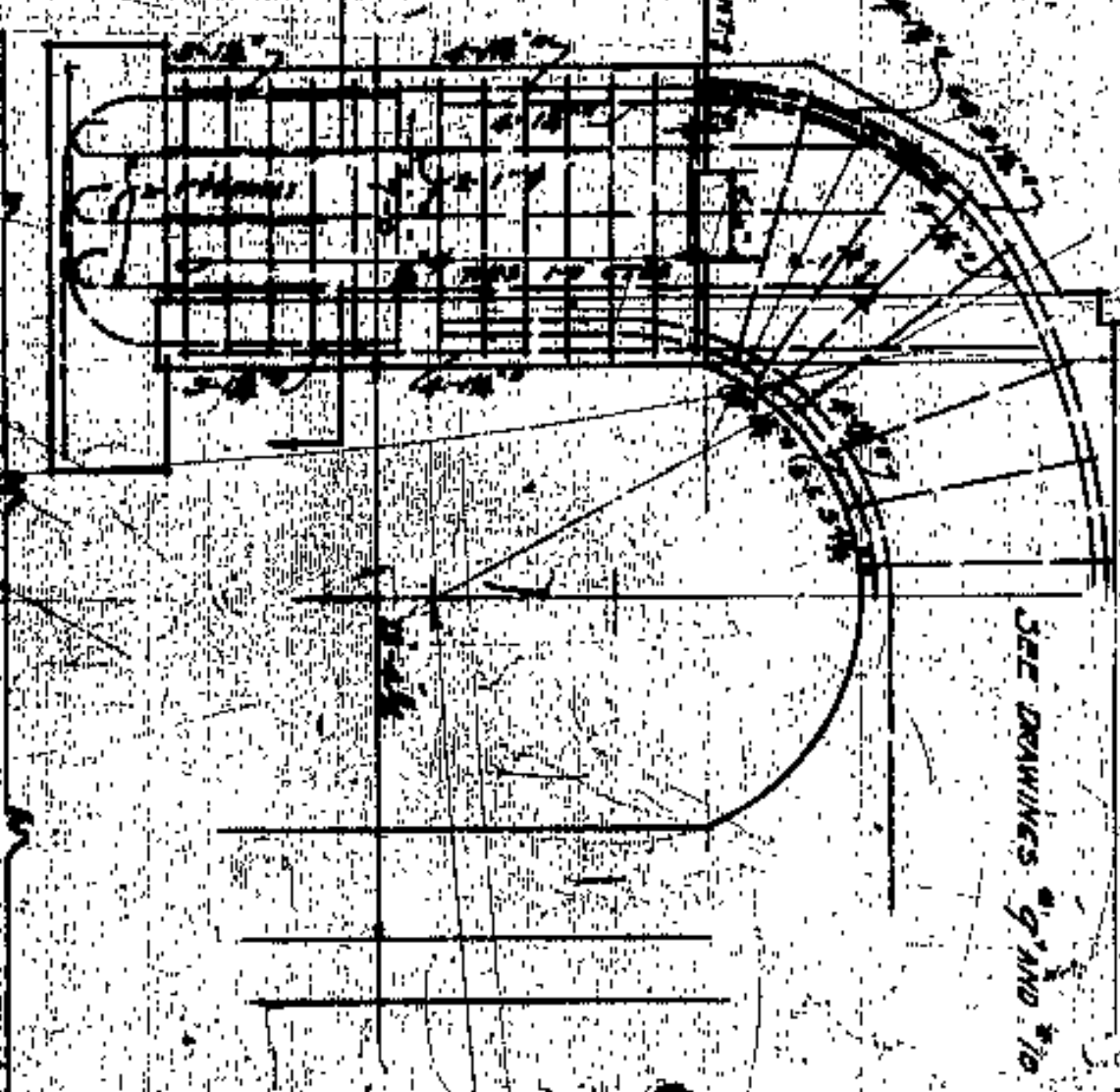
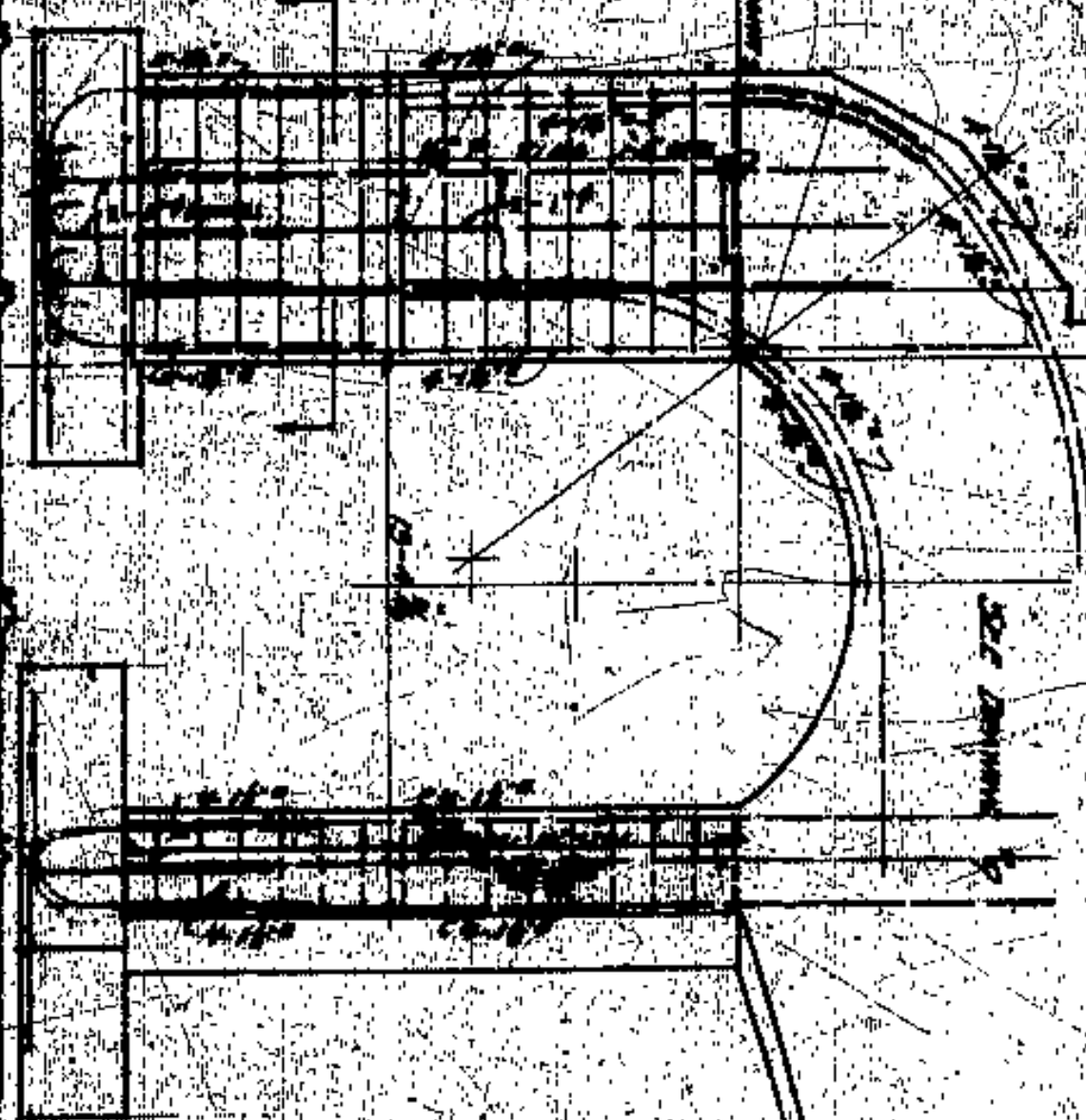




DETAIL AT END OF 6'- OPPOSITE END SIMILAR  
SECTION 5-5 FOR ELEVATIONS

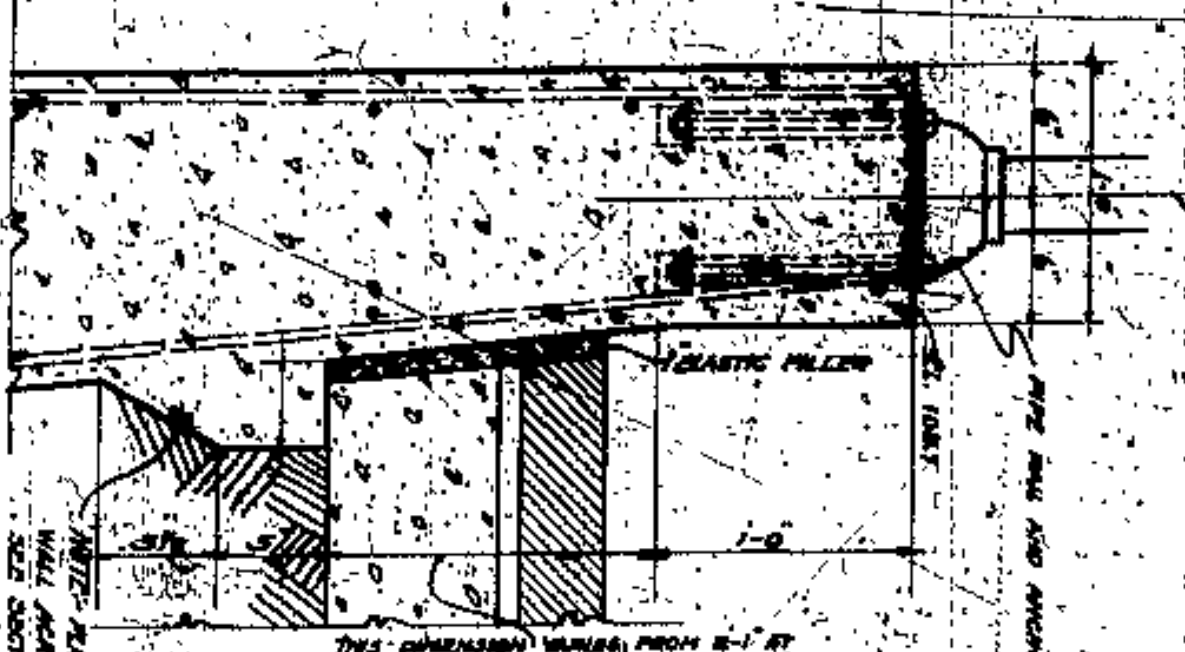


DETAIL AT END OF 6'- OPPOSITE END SIMILAR  
REINFORCEMENT FOR 6'- WALLS

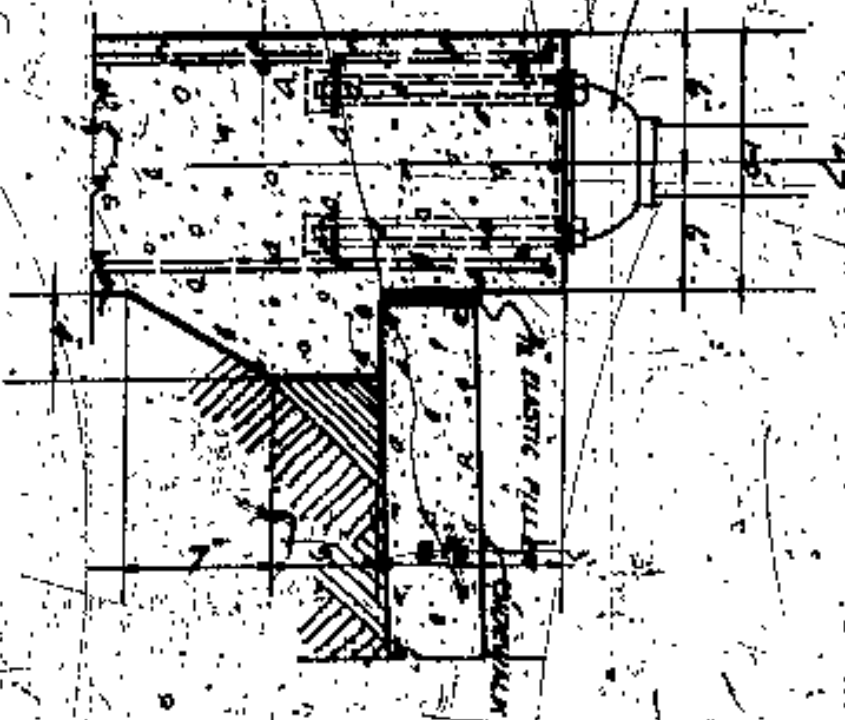


DETAIL AT END OF 6'- OPPOSITE END SIMILAR  
SCALE 1/8" = 1'-0"

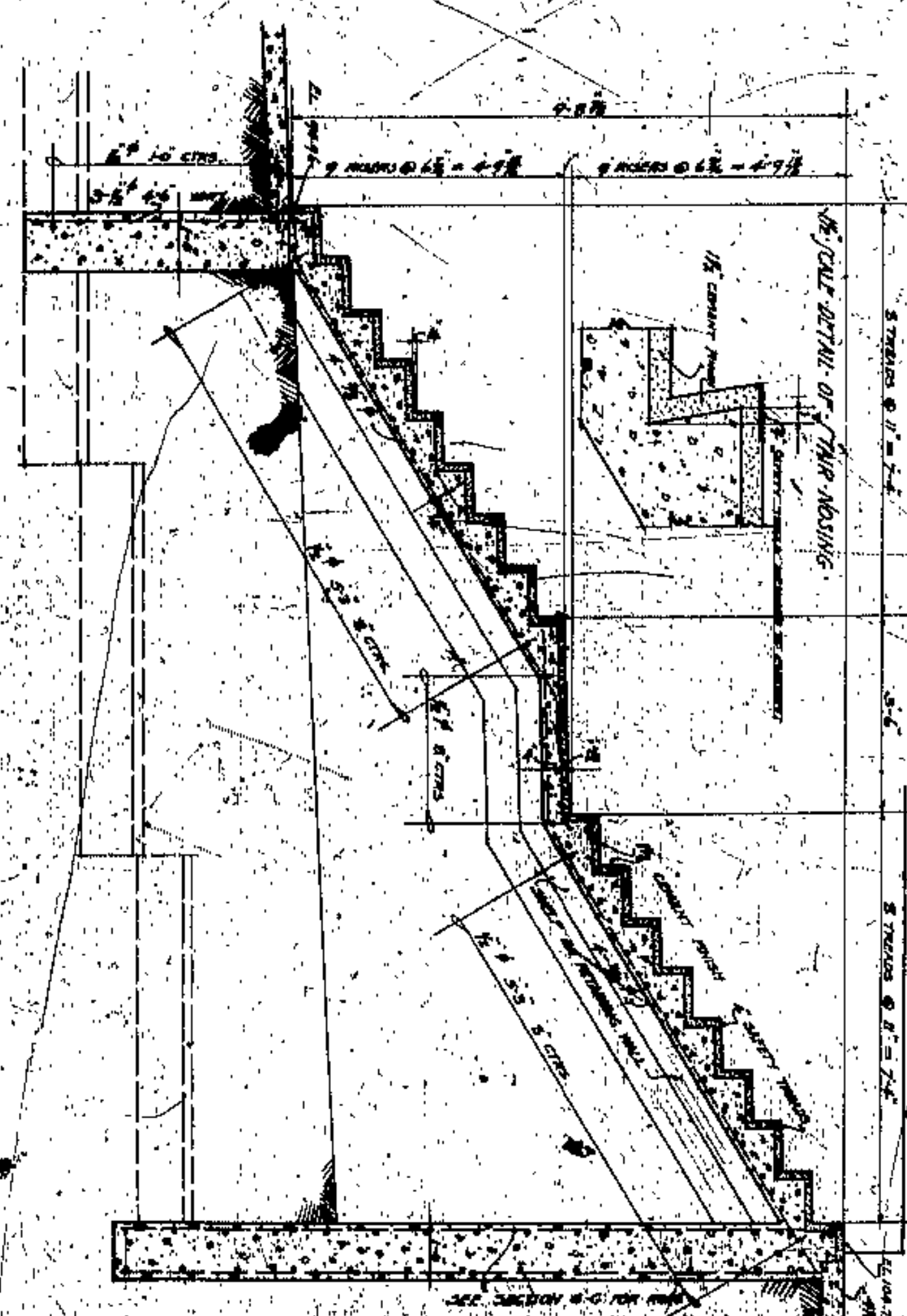
DETAIL AT END OF 6'- OPPOSITE END SIMILAR  
SCALE 1/8" = 1'-0"



DETAIL AT TOP OF WALL SHOWN ON SECTIONS  
R-R, A-A, B-B, C-C, D-D, E-E, AND F-F  
SCALE 1/8" = 1'-0"



DETAIL AT TOP OF WALL SHOWN ON  
SECTIONS G-G, H-H, I-I, J-J, K-K, L-L, M-M,  
N-N, O-O AND P-P  
SCALE 1/8" = 1'-0"

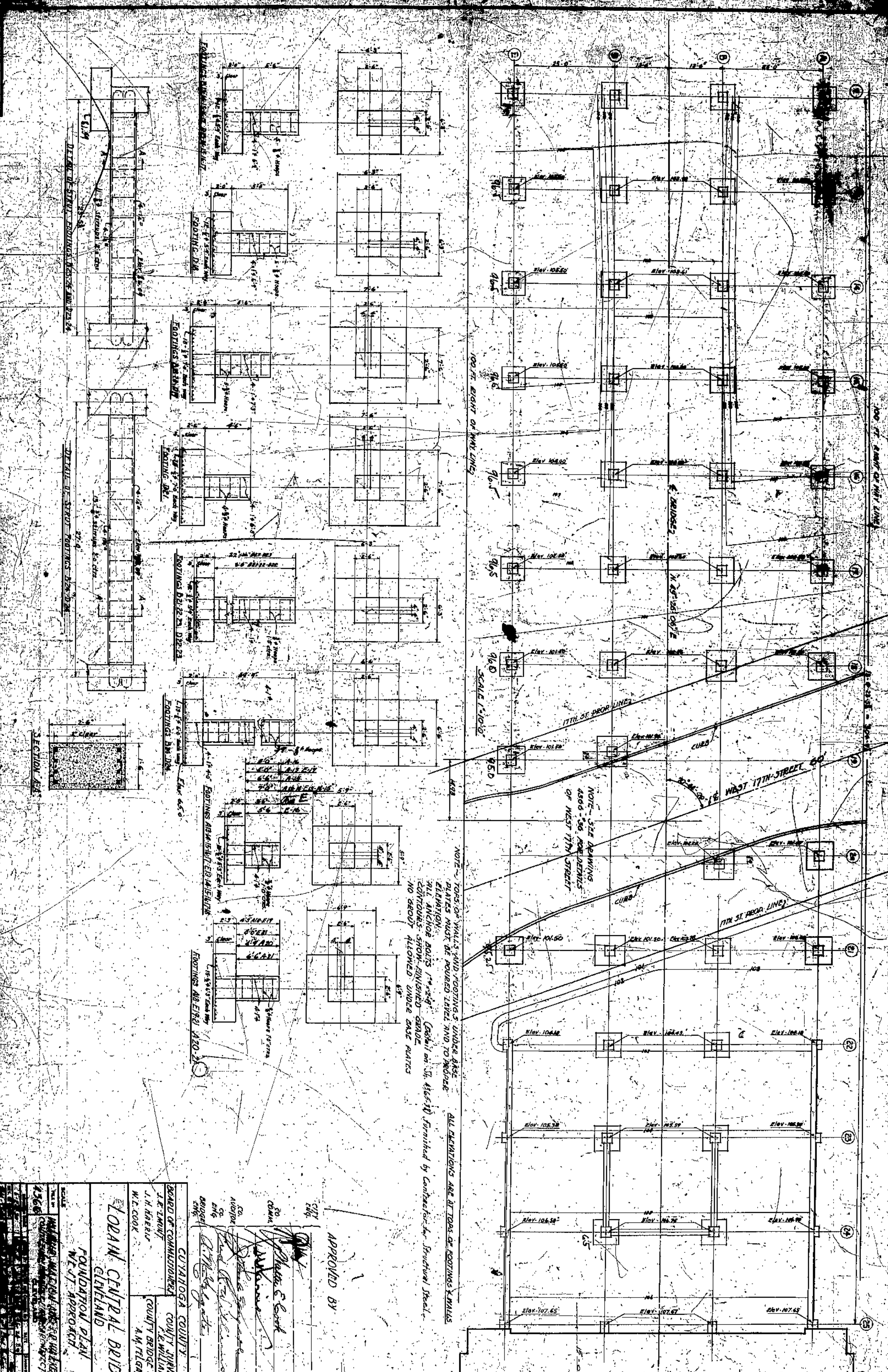


SECTION 5-5  
SCALE 1/8" = 1'-0"

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY JURISDICTION
M. E. COOK	E. P. WILLIAMS
J. R. HARRIS	COUNTY BRIDGE ENGINEER
J. E. GORMAN	A. M. FITZGATE
LORDAIN CENTRAL BRIDGE	
COLUMBUS ROAD GRADE ELIMINATION	
CLEVELAND	
MISCELLANEOUS DETAILS	
SCALE 1/8" = 1'-0"	DATE 10/20/31
WILBUR WATSON AND ASSOCIATES	
CONSULTING ARCHITECTS & ENGINEERS	
CLEVELAND	

APPROVED  
 J. R. HARRIS  
 COUNTY BRIDGE ENGINEER  
 APPROVED  
 W. L. GORMAN  
 COUNTY BRIDGE ENGINEER





NOTE - TOPS OF WALLS AND FOOTINGS UNDER BASE PLATES MUST BE PAVED LEVEL AND TO PROPOSED ELEVATION. ALL ANCHOR BOLTS 1 1/4\"/>

ALL ELEVATIONS ARE AT TOPS OF FOOTINGS UNLESS NOTED OTHERWISE. (Station on D. 415+10) furnished by Contractor for Structural Steel - CONTRACTORS - GROW - FINISHED - GRADE. NO GROUT ALLOWED UNDER BASE PLATES.

APPROVED BY

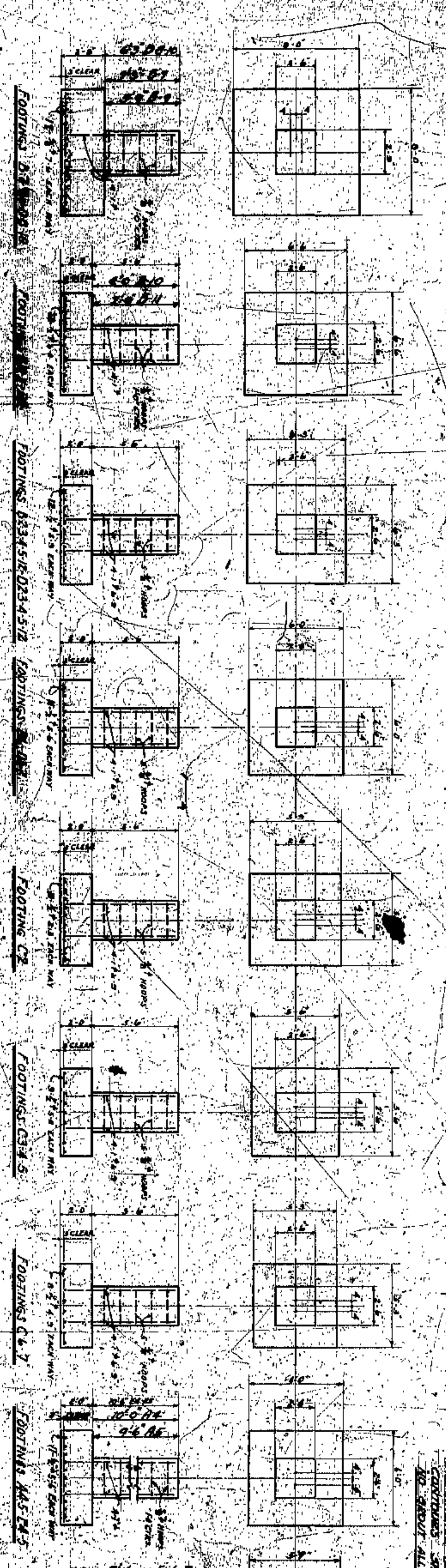
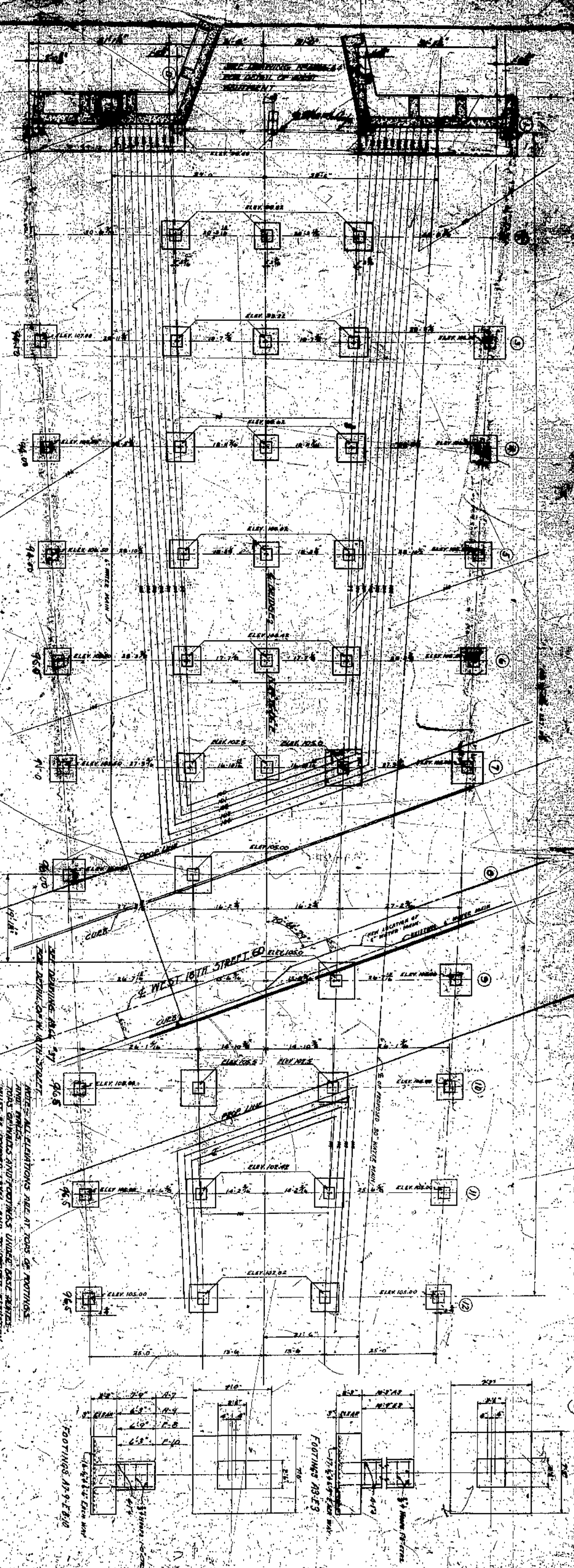
CITY ENGINEER  
 J. H. KERR  
 COUNTY SUPERVISOR  
 F. E. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. M. TILGATE

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 J. E. TINDY  
 J. H. KERR  
 W. C. COOK

LOGAN CENTRAL BRIDGE  
 CLEVELAND  
 FOUNDATIONAL PLAN  
 W. D. APPROACH

DATE	DESCRIPTION
1936	CONSTRUCTION OF BRIDGE
1937	REPAIRS TO BRIDGE
1938	REPAIRS TO BRIDGE
1939	REPAIRS TO BRIDGE
1940	REPAIRS TO BRIDGE
1941	REPAIRS TO BRIDGE
1942	REPAIRS TO BRIDGE
1943	REPAIRS TO BRIDGE
1944	REPAIRS TO BRIDGE
1945	REPAIRS TO BRIDGE
1946	REPAIRS TO BRIDGE
1947	REPAIRS TO BRIDGE
1948	REPAIRS TO BRIDGE
1949	REPAIRS TO BRIDGE
1950	REPAIRS TO BRIDGE





NOTES: ALL ELEVATIONS ARE AT TOPS OF FOOTINGS.  
 ALL DIMENSIONS UNLESS OTHERWISE NOTED.  
 ALL REINFORCEMENT SHALL BE AS SHOWN.  
 ALL REINFORCEMENT SHALL BE AS SHOWN.  
 ALL REINFORCEMENT SHALL BE AS SHOWN.  
 ALL REINFORCEMENT SHALL BE AS SHOWN.

APPROVED BY

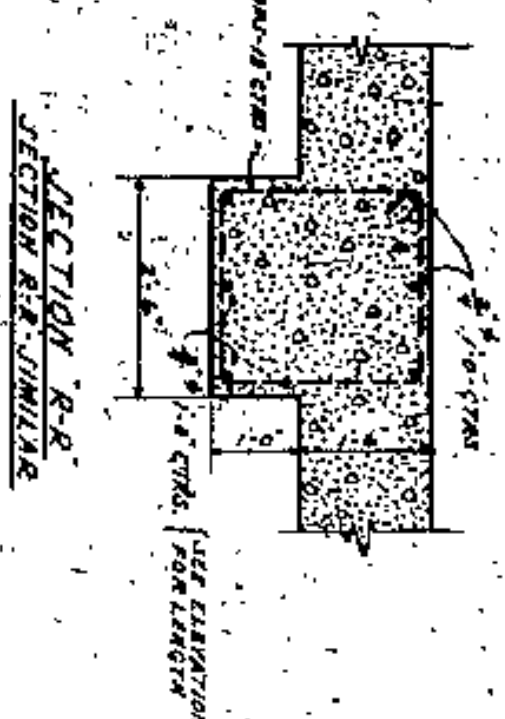
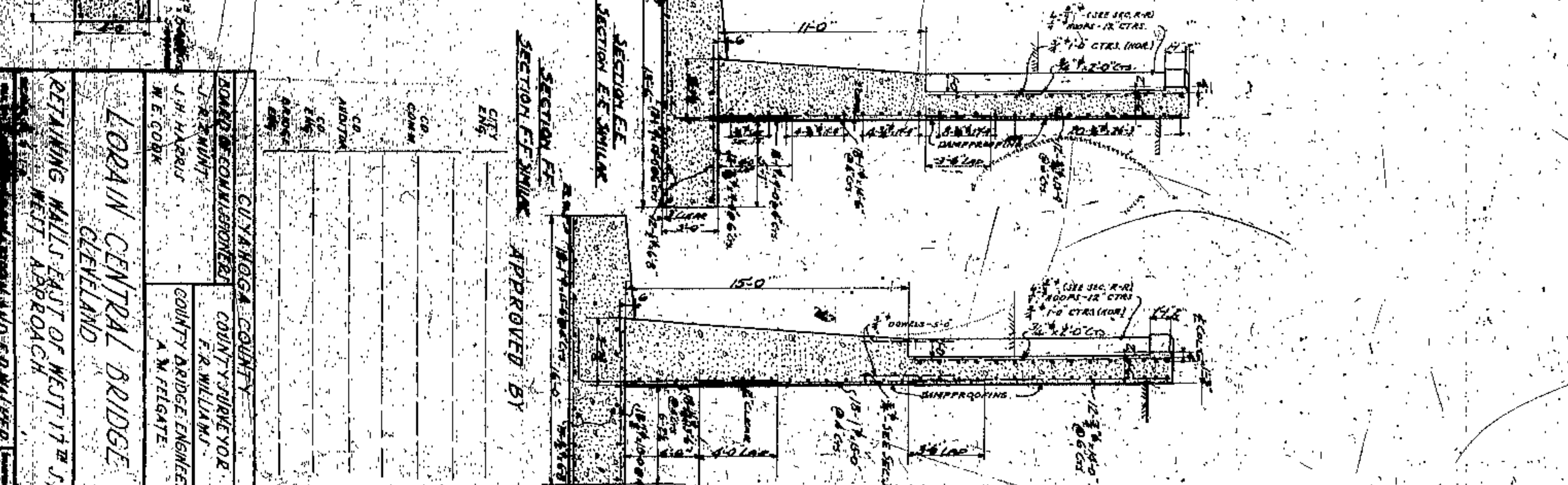
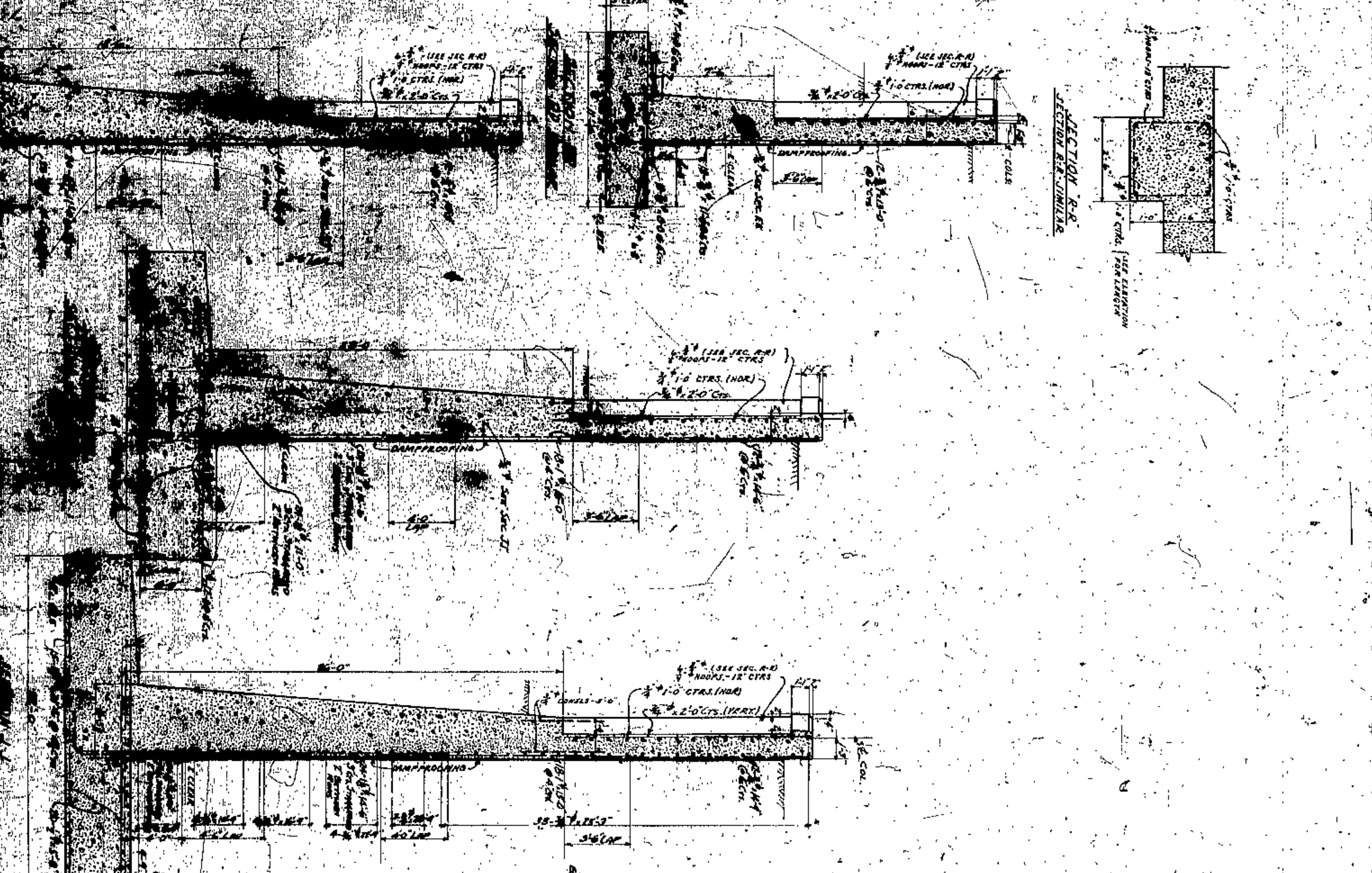
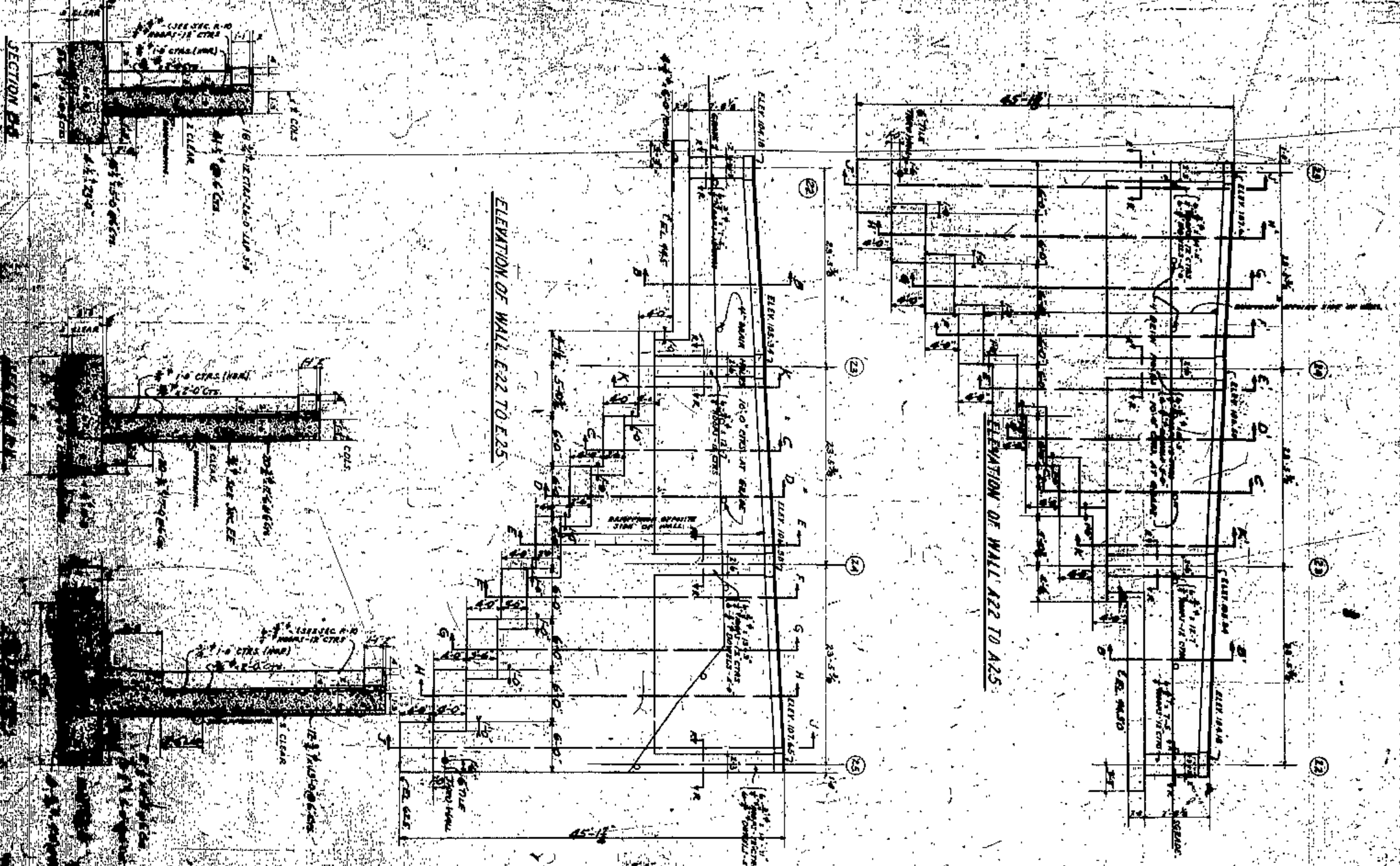
*[Signature]*  
 J. R. ZIMM  
 COUNTY ENGINEER  
 CLEVELAND

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY ENGINEER  
 J. R. ZIMM  
 COUNTY ENGINEER  
 CLEVELAND

FORAIN CENTRAL BRIDGE  
 CLEVELAND  
 FOUNDATION PLAN

DATE	DESCRIPTION
1914	FOUNDATION PLAN
1915	FOUNDATION PLAN
1916	FOUNDATION PLAN
1917	FOUNDATION PLAN
1918	FOUNDATION PLAN
1919	FOUNDATION PLAN
1920	FOUNDATION PLAN
1921	FOUNDATION PLAN
1922	FOUNDATION PLAN
1923	FOUNDATION PLAN
1924	FOUNDATION PLAN
1925	FOUNDATION PLAN
1926	FOUNDATION PLAN
1927	FOUNDATION PLAN
1928	FOUNDATION PLAN
1929	FOUNDATION PLAN
1930	FOUNDATION PLAN
1931	FOUNDATION PLAN
1932	FOUNDATION PLAN
1933	FOUNDATION PLAN
1934	FOUNDATION PLAN
1935	FOUNDATION PLAN
1936	FOUNDATION PLAN
1937	FOUNDATION PLAN
1938	FOUNDATION PLAN
1939	FOUNDATION PLAN
1940	FOUNDATION PLAN
1941	FOUNDATION PLAN
1942	FOUNDATION PLAN
1943	FOUNDATION PLAN
1944	FOUNDATION PLAN
1945	FOUNDATION PLAN
1946	FOUNDATION PLAN
1947	FOUNDATION PLAN
1948	FOUNDATION PLAN
1949	FOUNDATION PLAN
1950	FOUNDATION PLAN





CITY ENGINEER  
 COUNTY ENGINEER  
 COUNTY SURVEYOR  
 COUNTY BRIDGE ENGINEER  
 COUNTY CLERK

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 J. H. HAYES  
 W. E. COBK

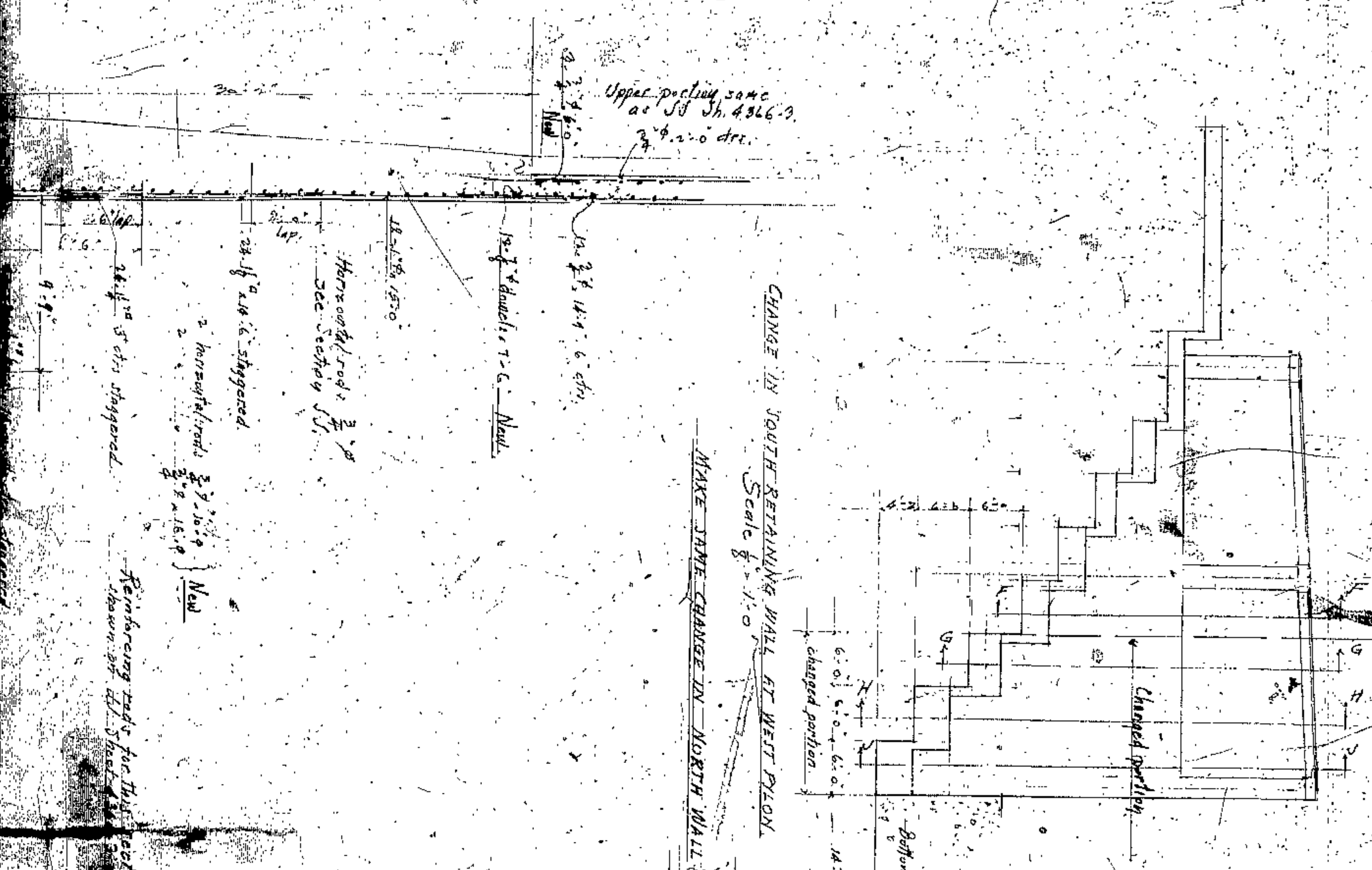
LORAIN CENTRAL BRIDGE  
 CLEVELAND  
 RETAINING WALLS EAST OF WEST 17th ST  
 WEST APPROACH

APPROVED BY  
 SECTION E-E

SECTION B-B  
 JUNCTION OF WALLS



Upper portion same as Sh. 4366-3  
2' 6" x 6" drc.



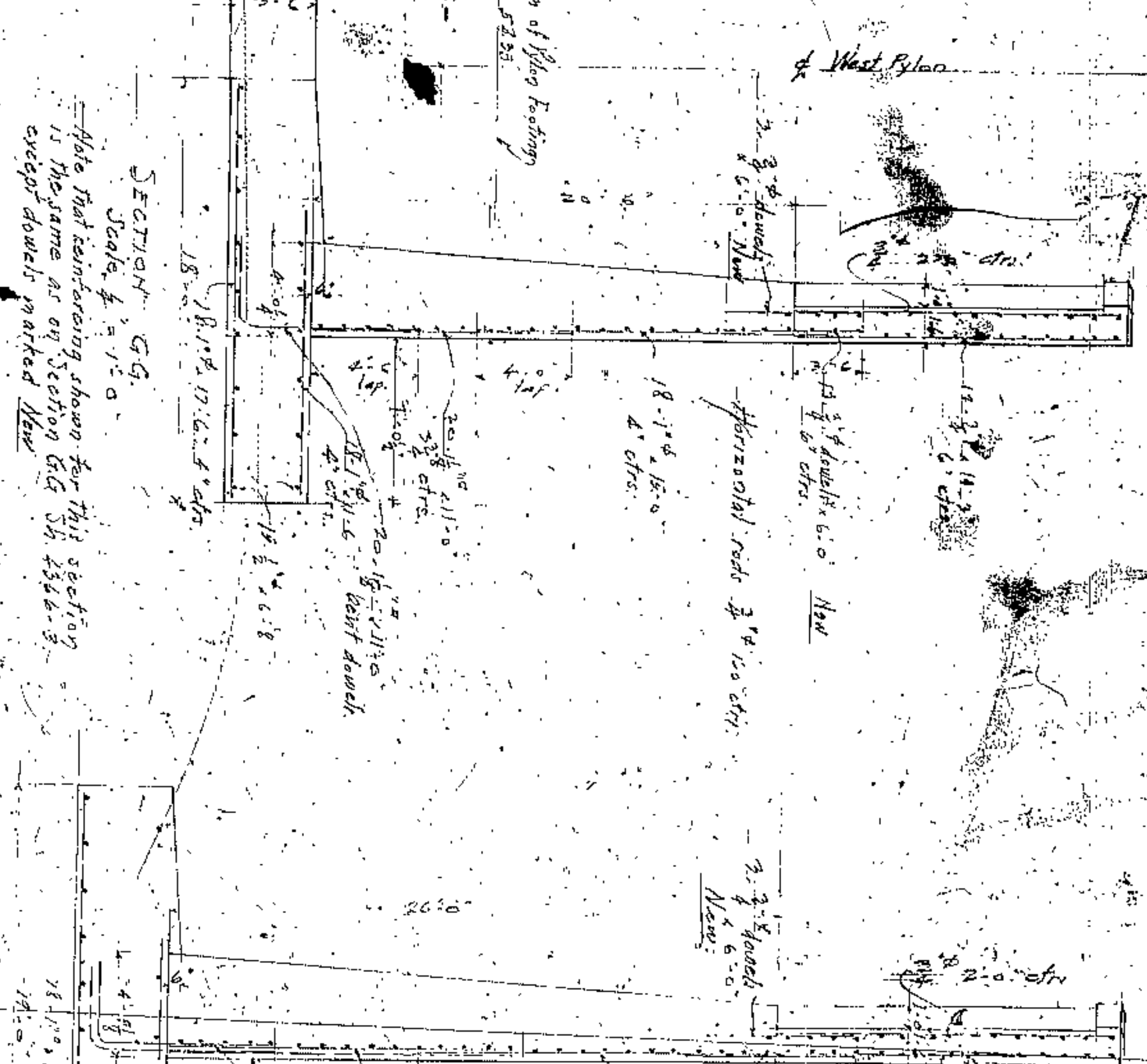
CHANGE IN SOUTH RETAINING WALL AT WEST PYLON  
Scale 1/2" = 1'-0"

MAKE SAME CHANGE IN NORTH WALL

12' 4" diameter T.C. New  
 23' 1/2" x 14' 6" drc.  
 Horizontal rods 3/4" x 10'-9" See Section J.J.  
 2 horizontal rods 3/4" x 10'-9" staggered  
 23' 1/2" x 14' 6" staggered  
 24' 1/2" x 5' drc staggered  
 9'-9"

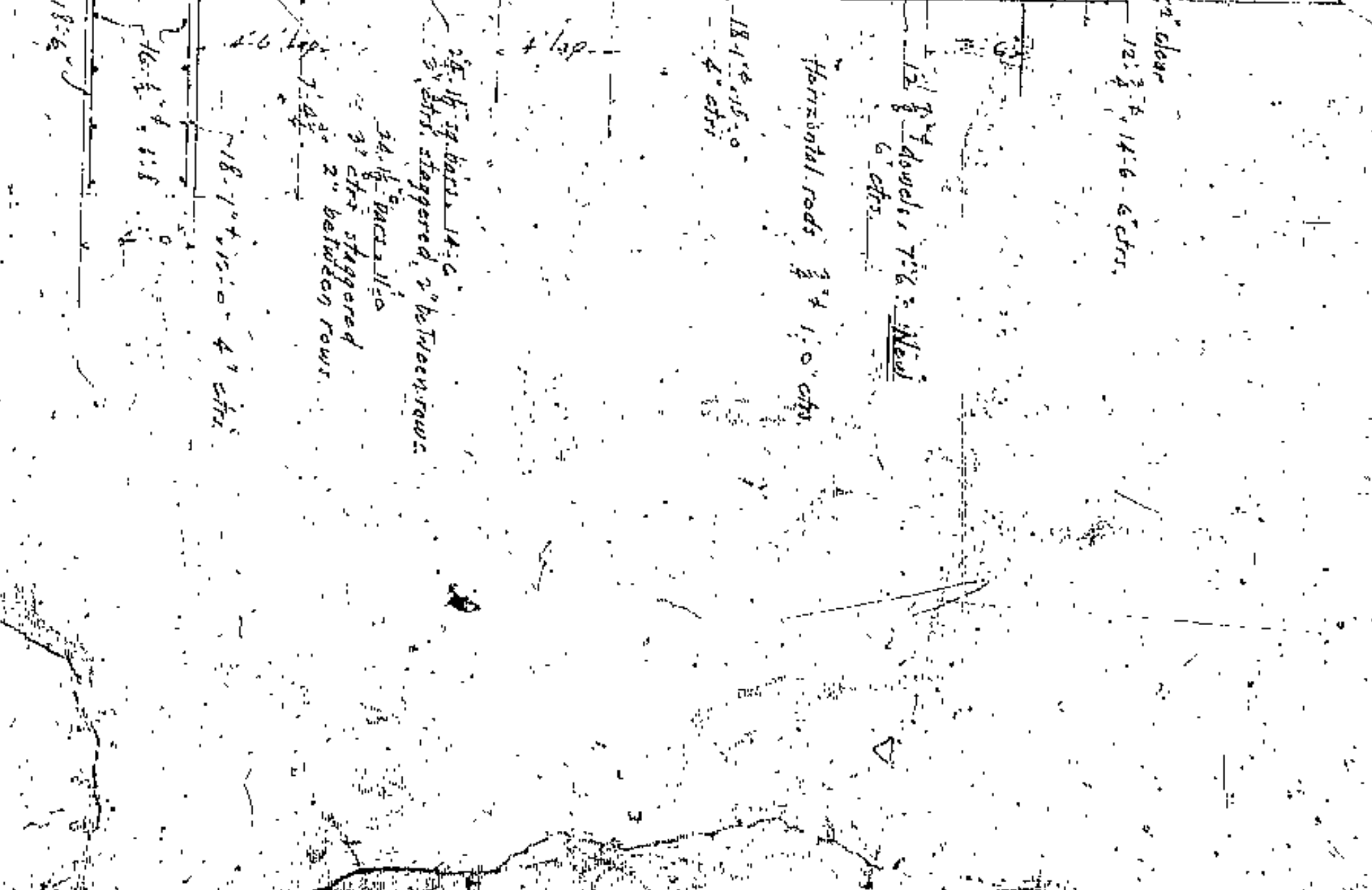
Reinforcing rods for this section same as shown on all sheets of this project except rods marked New

SECTION G.G.  
 Scale 1/2" = 1'-0"  
 Note that reinforcing shown for this section is the same as on Section G.G. Sh. 4366-3 except dowels marked New



SECTION H.H.  
 Scale 1/2" = 1'-0"

Reinforcing for this section is the same as for Section H.H. of Sheet 4366-3 except dowels marked New



JOHN GERTZ, INC.  
 ENGINEERING AND ARCHITECTURE  
 1111 O'CONNOR STREET  
 CHICAGO, ILL.  
 W. R. HANSEN & ASSOCIATES  
 CONSULTING ENGINEERS  
 1111 O'CONNOR STREET  
 CHICAGO, ILL.

















APPROVED BY

**LORAIN CENTRAL BRIDGE**  
**EAST APPROACH**  
**CLEVELAND**

CUYAHOGA COUNTY SUPERVISOR  
 J. E. ZIMMINT  
 J. H. HARRIS  
 W. E. COOK

COUNTY BRIDGE ENGINEER  
 A. M. TELFER

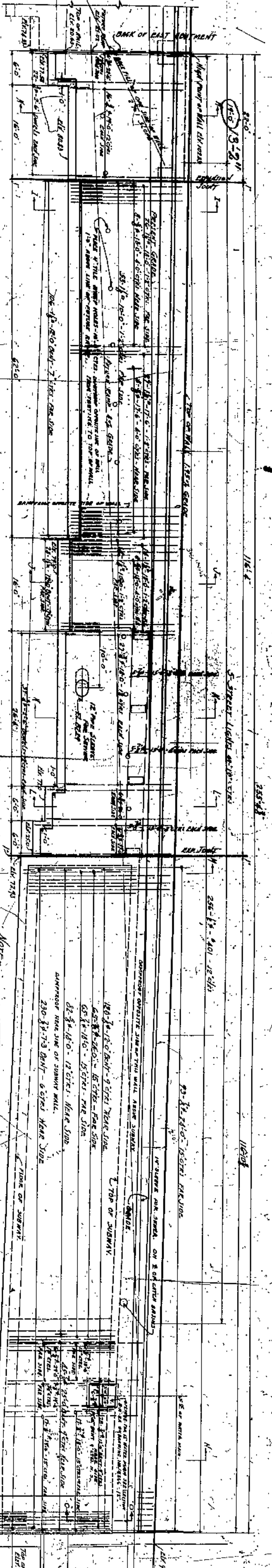
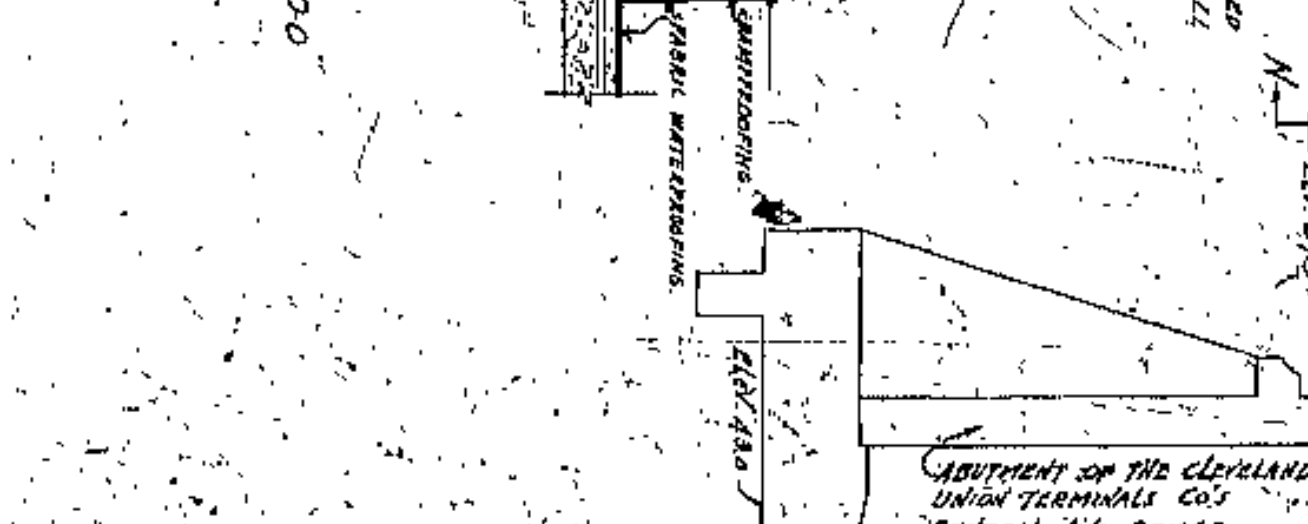
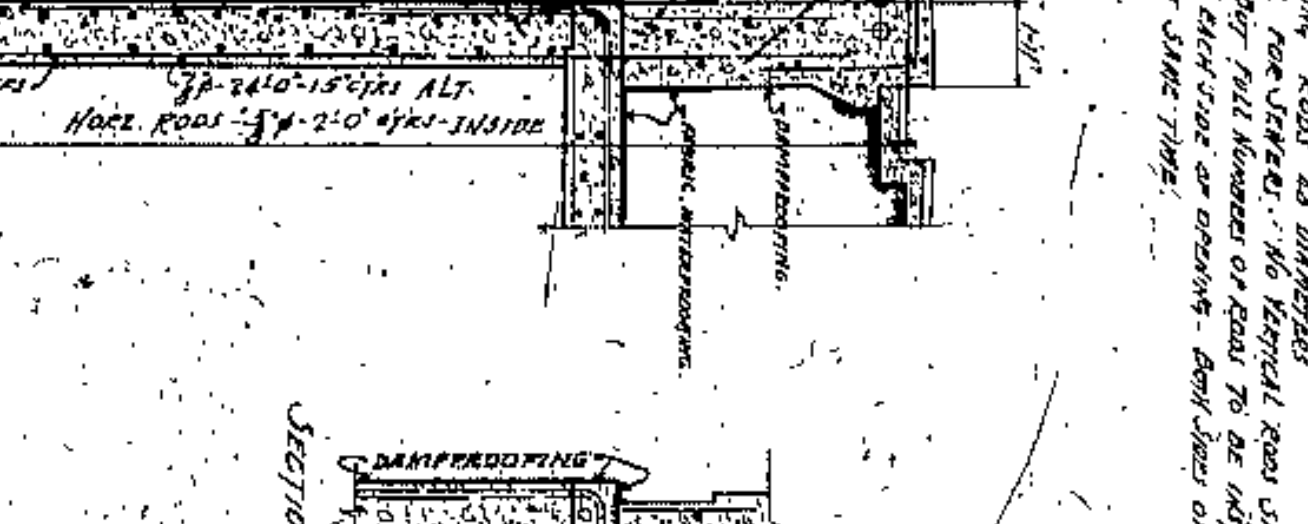
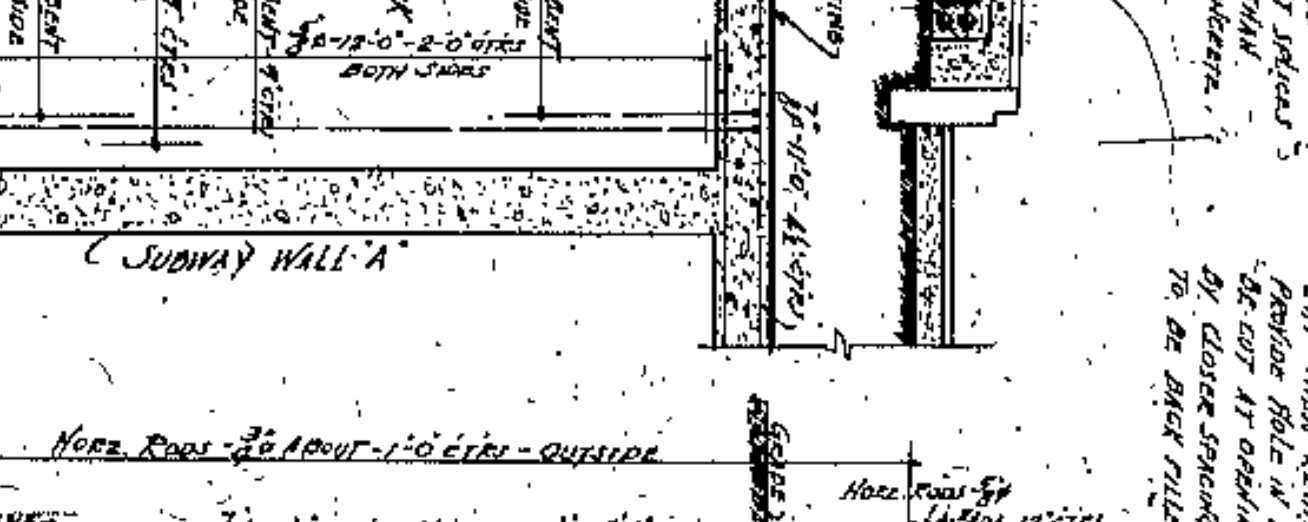
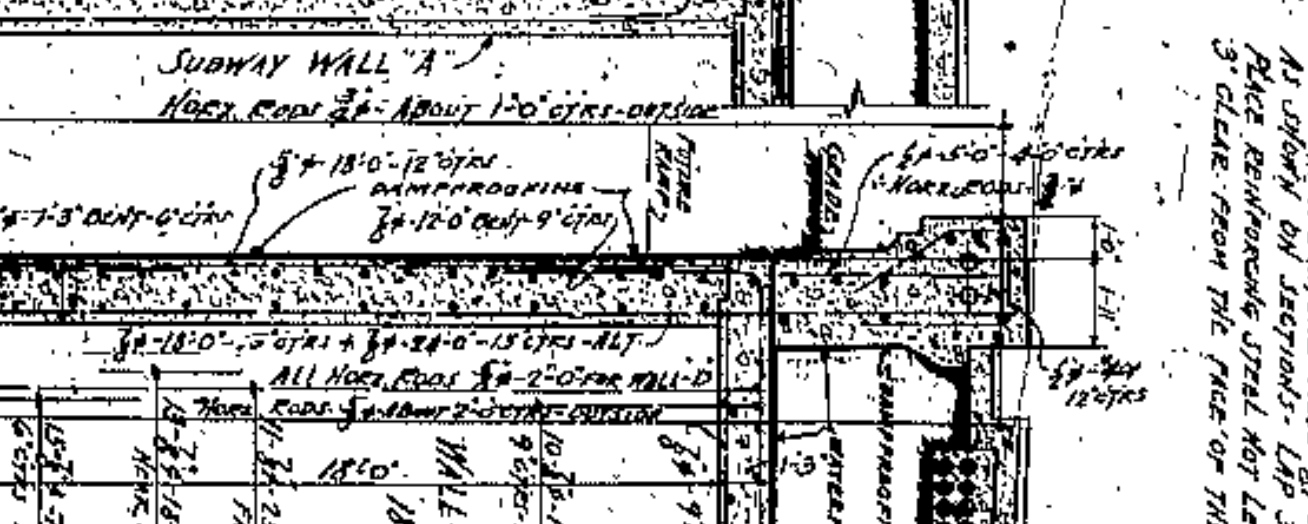
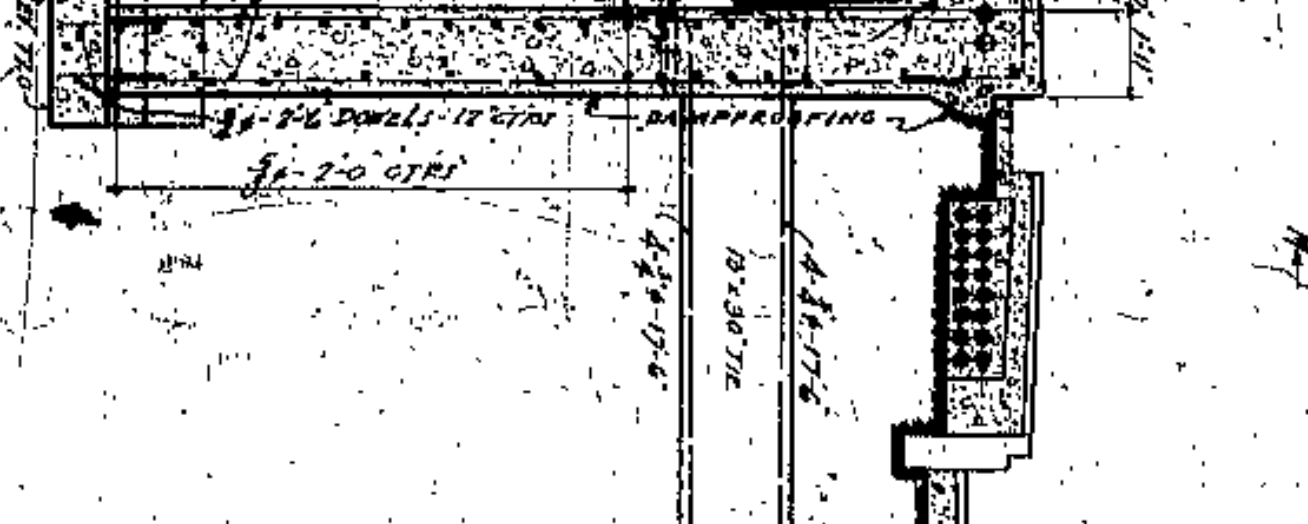
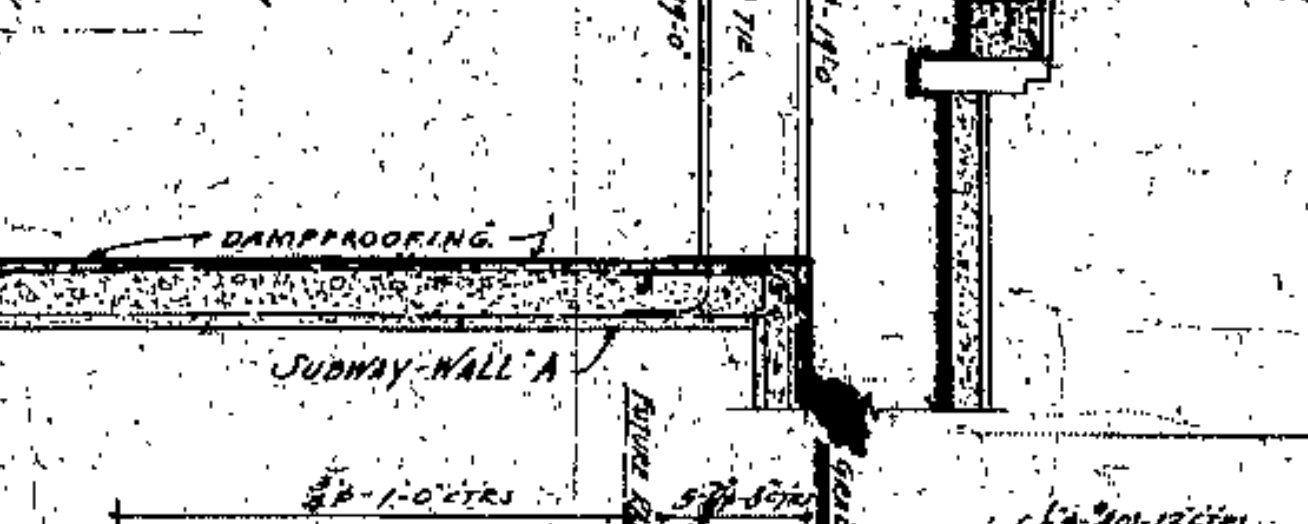
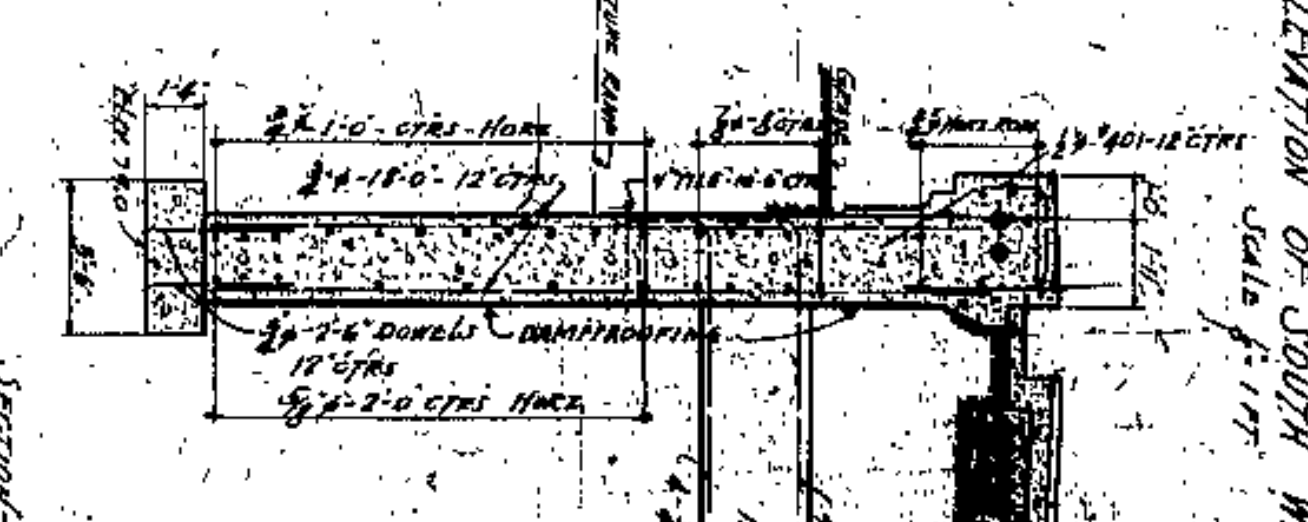
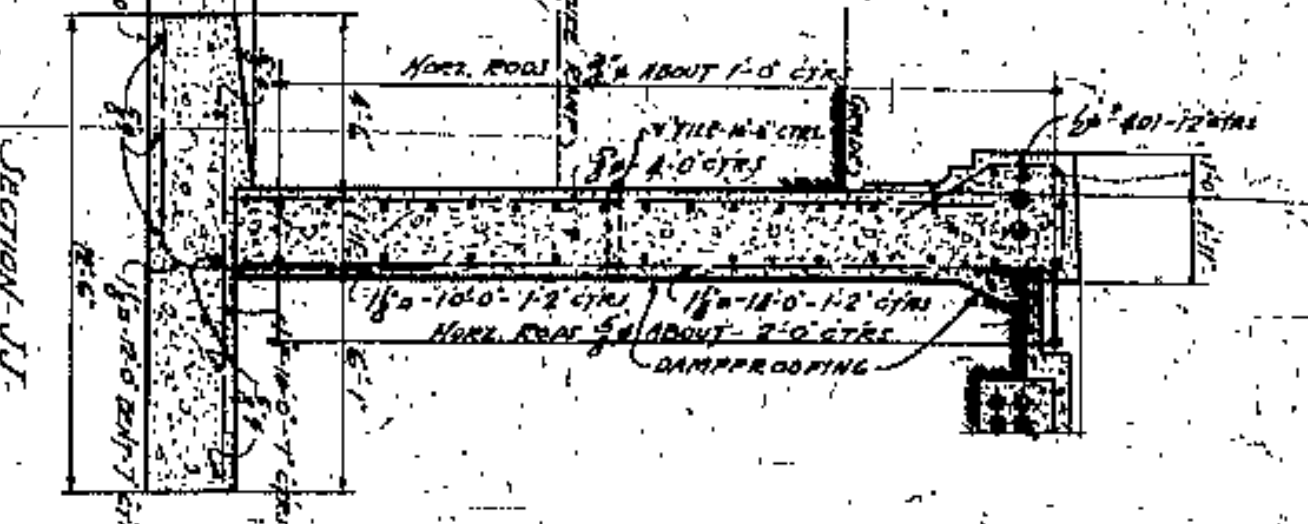
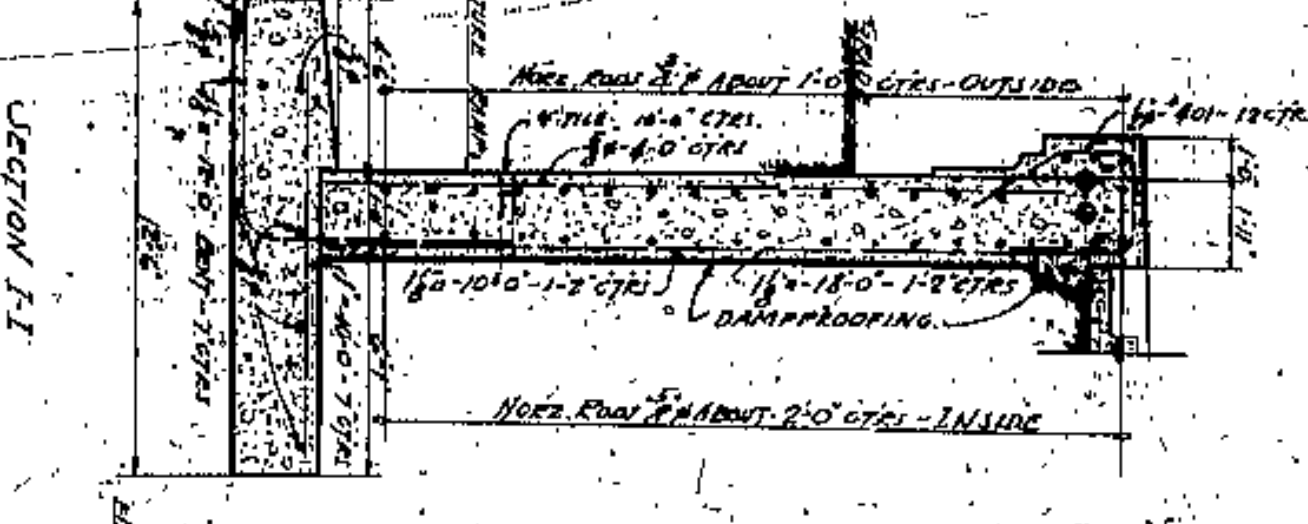
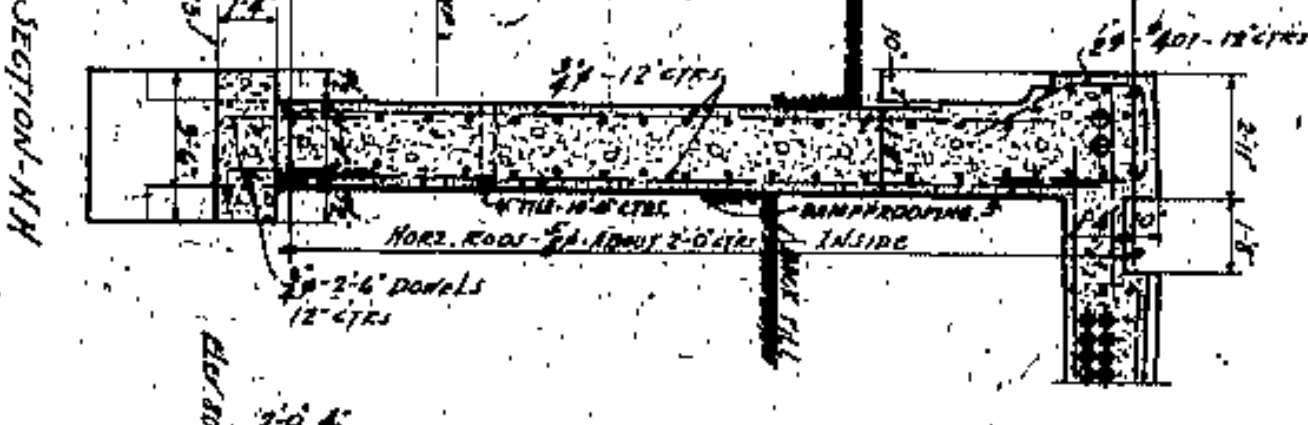
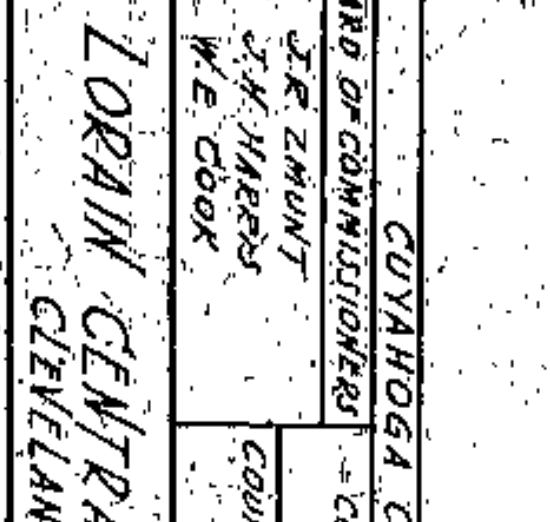
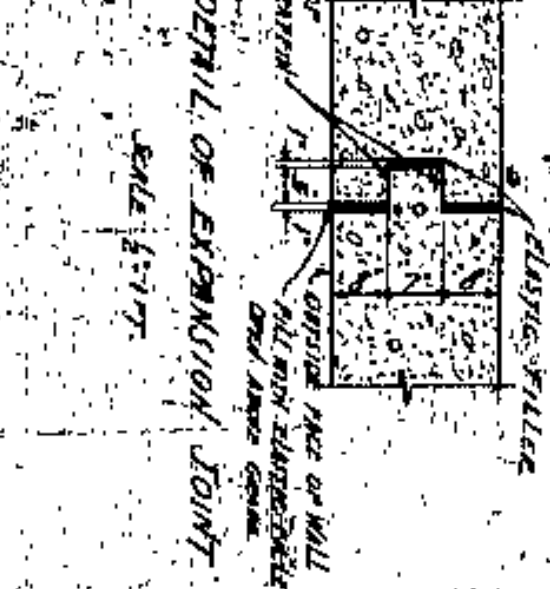
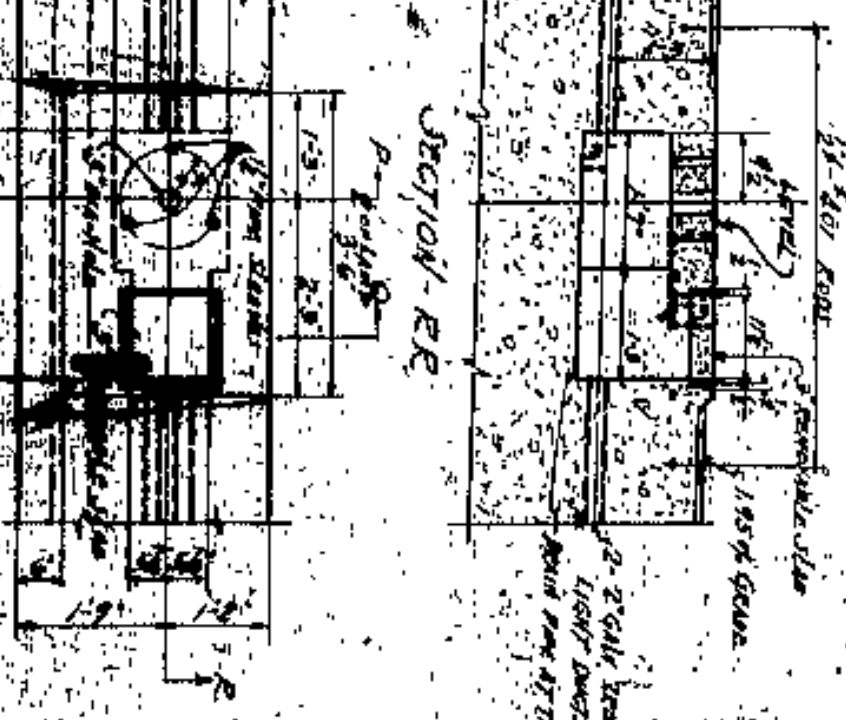
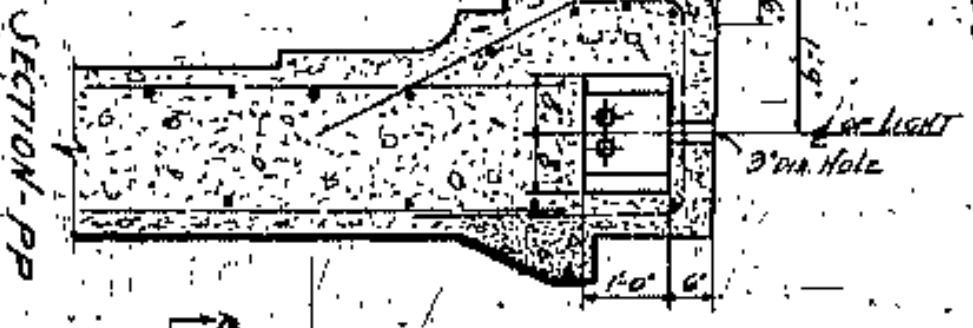
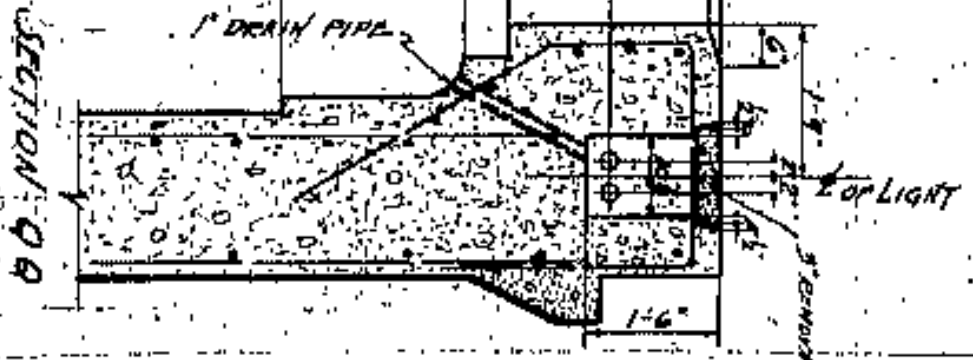
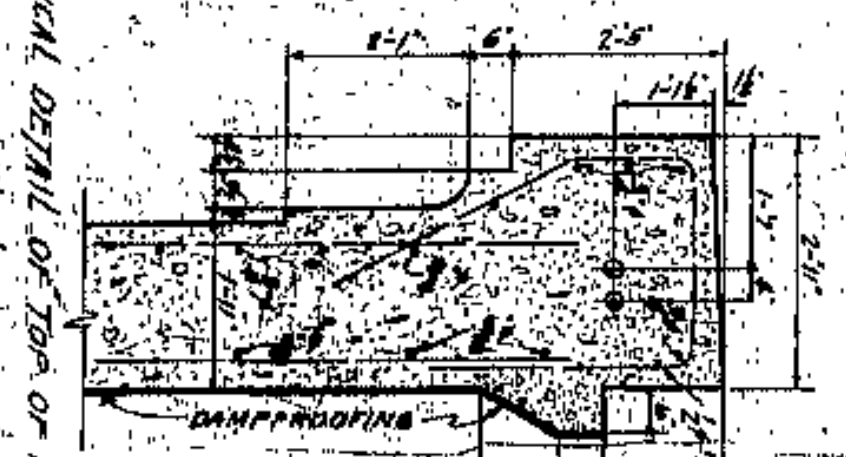
SCALE 1" = 10'

Co. Huron  
 Co. 446  
 Above and

NO.	DATE	DESCRIPTION	BY	CHECKED
1	1936	PRELIMINARY PLAN	J. E. ZIMMINT	
2	1936	FINAL PLAN	J. E. ZIMMINT	
3	1936	CONSTRUCTION	J. E. ZIMMINT	
4	1936	CONSTRUCTION	J. E. ZIMMINT	
5	1936	CONSTRUCTION	J. E. ZIMMINT	
6	1936	CONSTRUCTION	J. E. ZIMMINT	
7	1936	CONSTRUCTION	J. E. ZIMMINT	
8	1936	CONSTRUCTION	J. E. ZIMMINT	
9	1936	CONSTRUCTION	J. E. ZIMMINT	
10	1936	CONSTRUCTION	J. E. ZIMMINT	



TYPICAL DETAIL OF TOP OF WALL  
Scale 1/2"=1'-0"



ELEVATION OF SOUTH WALL  
Scale 1/2"=1'-0"

NOTE: Reinforcement bars shall be placed in wall as shown in sections. Lap 30" at joints. Place reinforcement steel not less than 3" clear from the face of the concrete.

NOTE: All reinforcement bars to be placed in wall as shown in sections. Lap 30" at joints. Place reinforcement steel not less than 3" clear from the face of the concrete.

APPROVED BY

LORAIN CENTRAL BRIDGE  
CLEVELAND  
EAST APPROACH  
SOUTH WALL

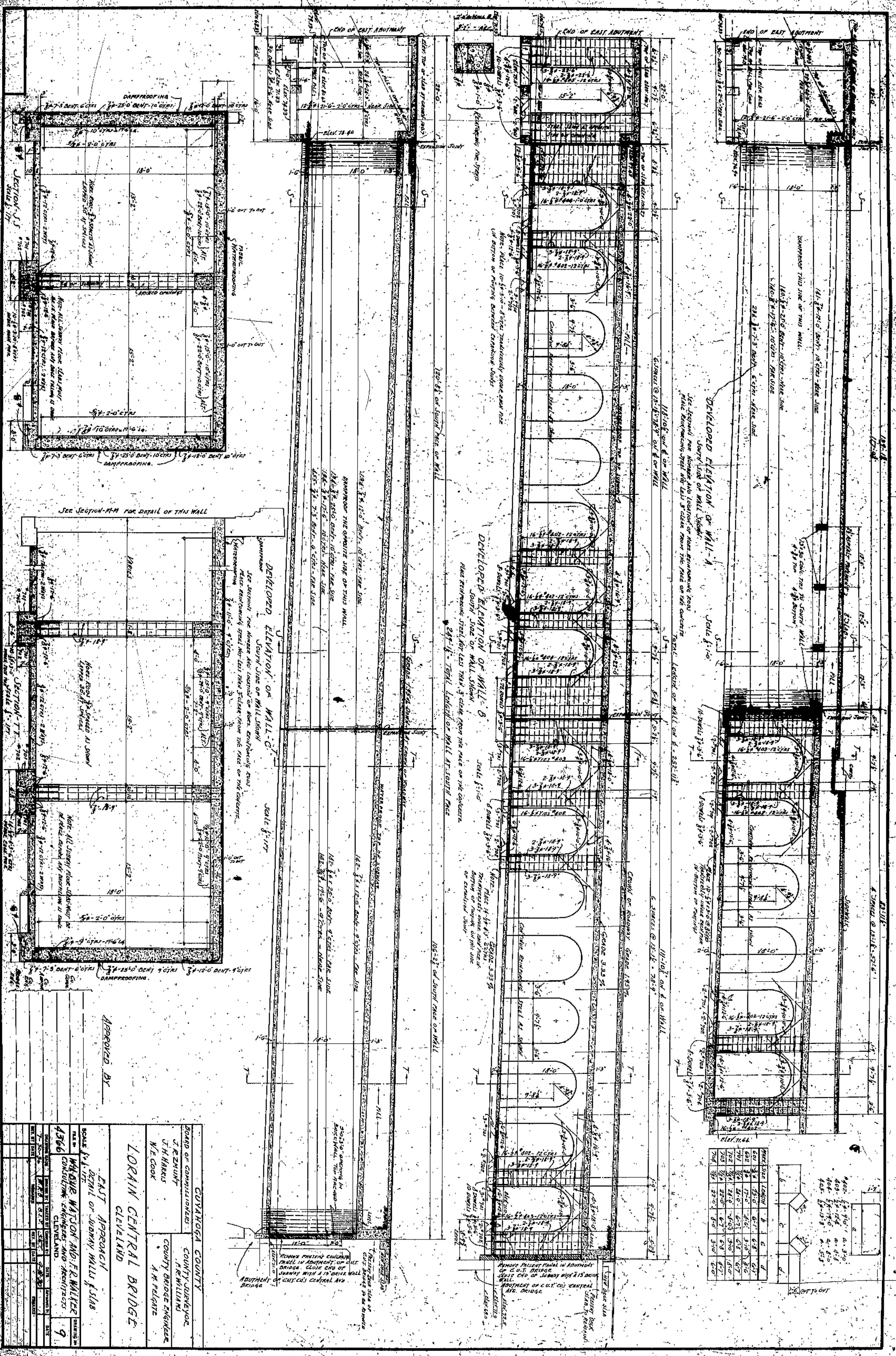
CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SUPERVISOR  
FR WILLIAMS  
COUNTY ENGINEER  
A.M. FELTZ

SCALE  
1/2"=1'-0"

DESIGNED BY  
W. H. HARRIS  
CHECKED BY  
W. E. COOK

CONTRACT OF THE CLEVELAND UNION TERMINALS CO'S  
CENTRAL AVE. BRIDGE





**DEVELOPED ELEVATION OF WALL A**  
 Scale 1/4" = 1'-0"

See Section J-J for detail of this wall.  
 See Section K-K for detail of this wall.  
 See Section L-L for detail of this wall.

**DEVELOPED ELEVATION OF WALL B**  
 Scale 1/4" = 1'-0"

See Section J-J for detail of this wall.  
 See Section K-K for detail of this wall.  
 See Section L-L for detail of this wall.

**DEVELOPED ELEVATION OF WALL C**  
 Scale 1/4" = 1'-0"

See Section J-J for detail of this wall.  
 See Section K-K for detail of this wall.  
 See Section L-L for detail of this wall.

Span	Span Length	Abutment	Abutment	Abutment
1	25.0'	6'-0"	6'-0"	6'-0"
2	17.0'	6'-0"	6'-0"	6'-0"
3	21.0'	6'-0"	6'-0"	6'-0"
4	18.0'	6'-0"	6'-0"	6'-0"
5	22.0'	6'-0"	6'-0"	6'-0"
6	20.0'	6'-0"	6'-0"	6'-0"
7	24.0'	6'-0"	6'-0"	6'-0"
8	22.0'	6'-0"	6'-0"	6'-0"
9	26.0'	6'-0"	6'-0"	6'-0"
10	24.0'	6'-0"	6'-0"	6'-0"

APPROVED BY \_\_\_\_\_

**LORAIN CENTRAL BRIDGE**  
 CLEVELAND

**EAST APPROACH**  
 DETAIL OF JUBBY WALLS (SLAB)

4366

WALTER WATSON AND FRANK WILKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

COVAHOGA COUNTY  
 BOARD OF COMMISSIONERS

COUNTY SUPERVISOR  
 F. R. WILLIAMS

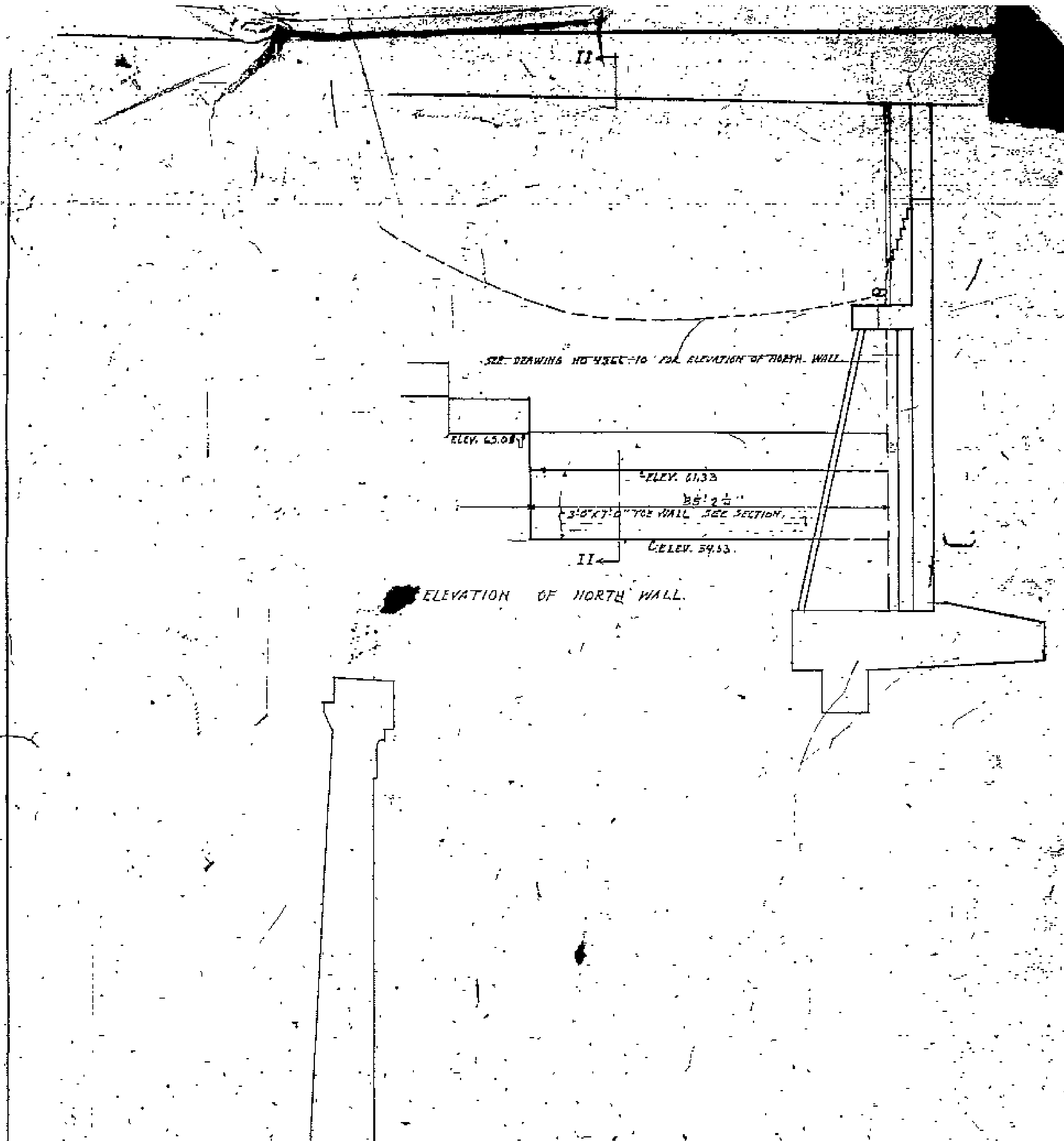
COUNTY BRIDGE ENGINEER  
 A. M. PELTZ

W. E. COOK









SEE DRAWING NO. 4366-10 FOR ELEVATION OF NORTH WALL

ELEV. 63.08

ELEV. 61.33

3'-0" X 7'-0" TOE WALL SEE SECTION

ELEV. 54.53

ELEVATION OF NORTH WALL

SECTION II-II, SEE DRAWING NO. 4366-10

ELEV. 61.33  
8" 4.0" DONELS  
2'-0" CTRS.

ELEV. 54.53

WOOD SHEET PILING TO BE LEFT IN PLACE

THIS DRAWING IS AN ADDENDA TO DRAWING NO. 4366-10

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SURVEYOR
J. R. ZMUNT	F. B. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. F. COOK	A. M. FELGATE

LORAIN CENTRAL BRIDGE  
CLEVELAND

EAST APPROACH  
NORTH WALL AND SECTIONS

SCALE 1" AND 5" = 10'

FILE NO.	WILBUR WATSON AND F. R. WALKER	DRAWING NO.	10 A
4366	CONSULTING ENGINEER AND ARCHITECT		
	CLEVELAND		

DRAWING MADE	DRAWN BY	PLACED BY	ENGINEER BY	DATE	APPROVED BY	NOTE
B-11-34	W.R.D.					
REV. NO.	DATE	REMARKS	APP. NO.	DATE	REMARKS	

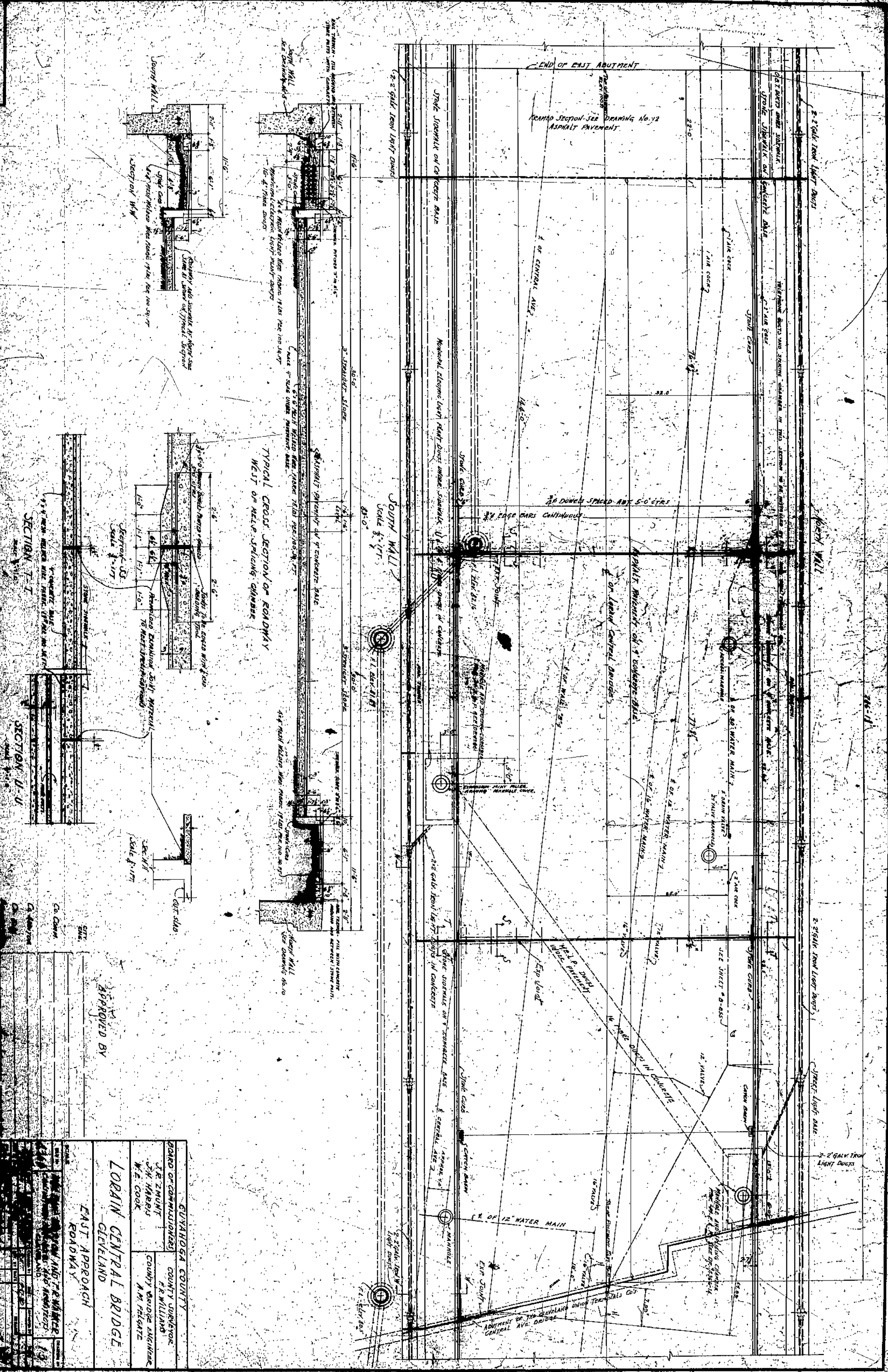












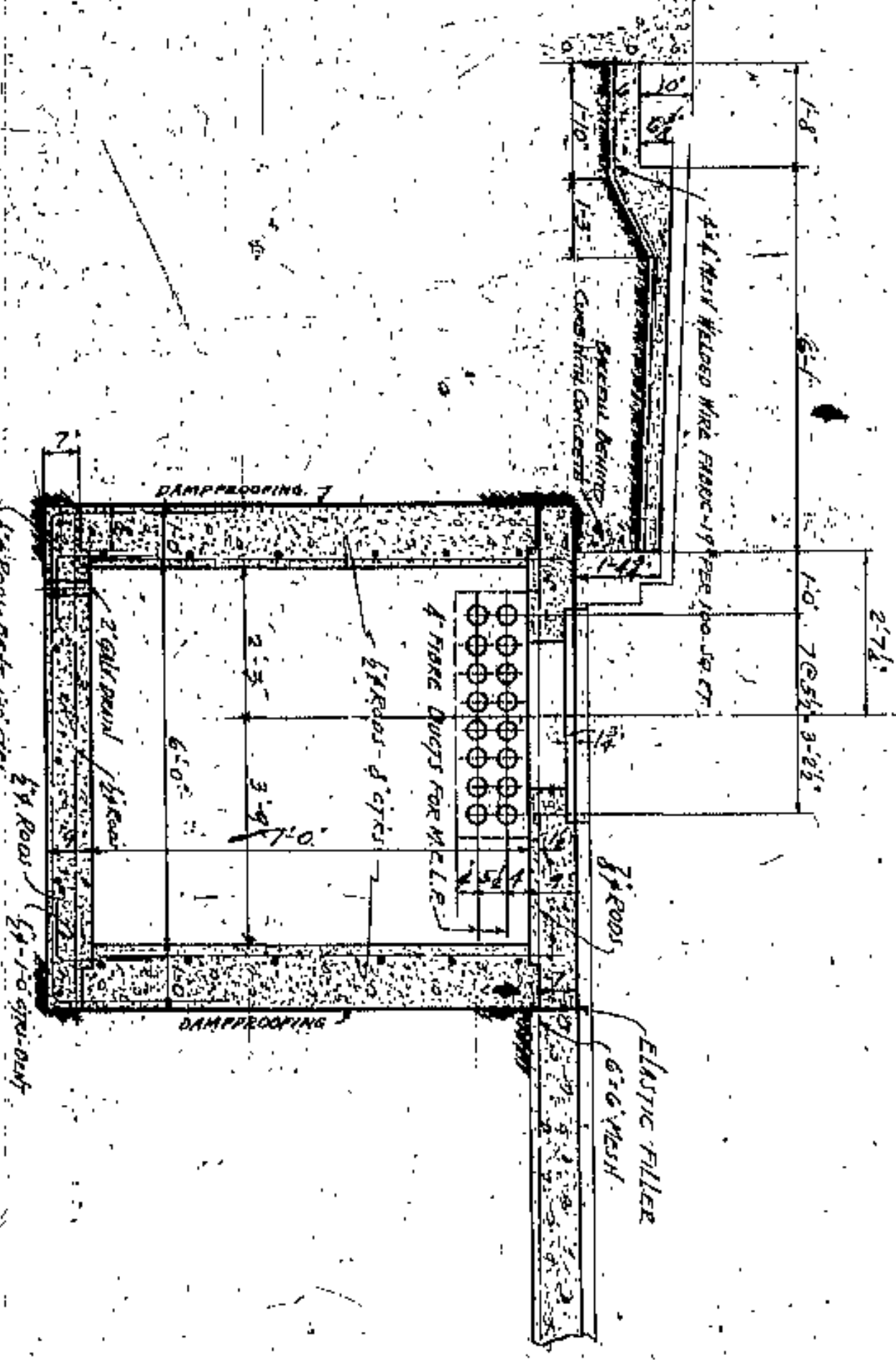
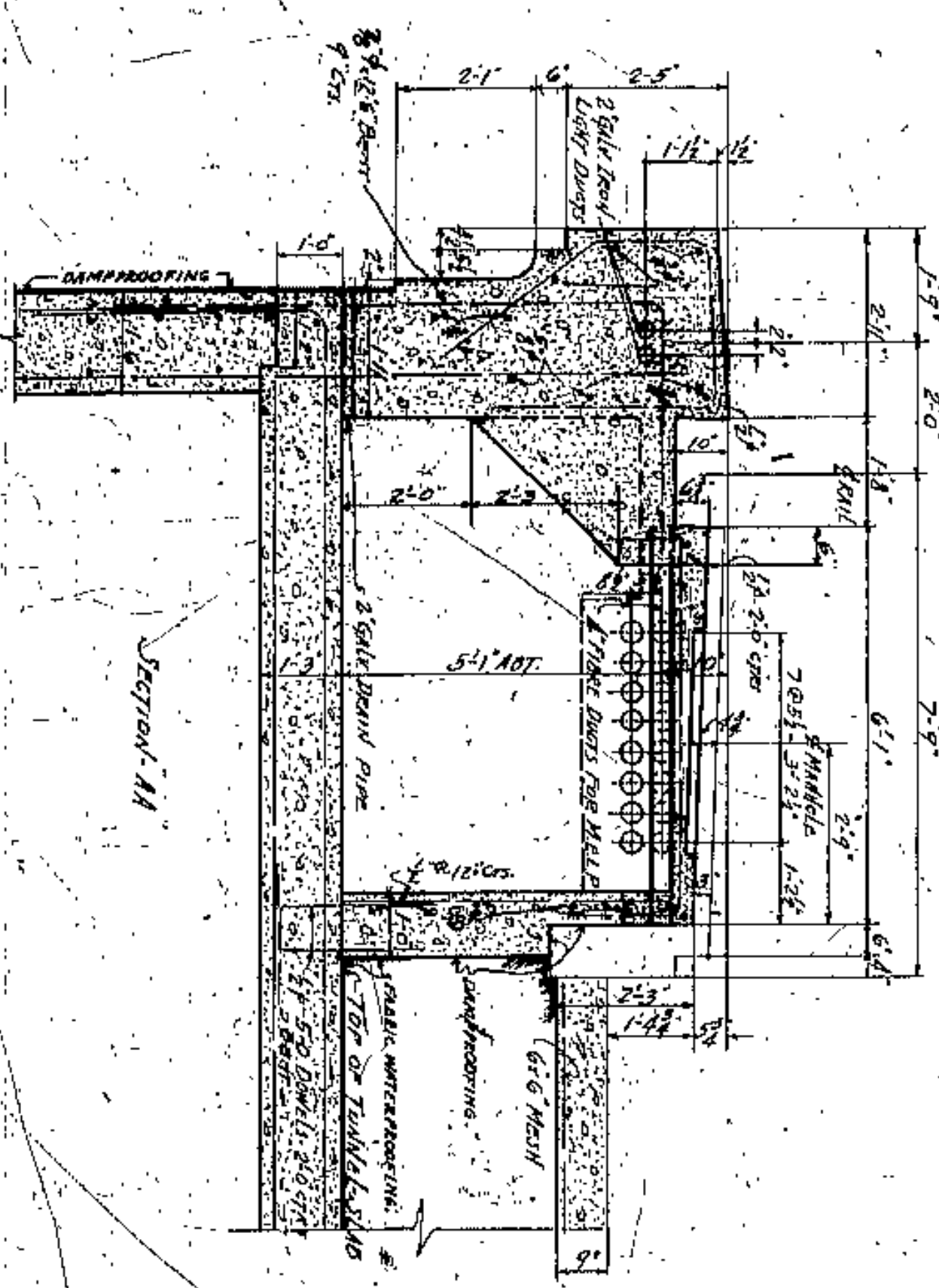
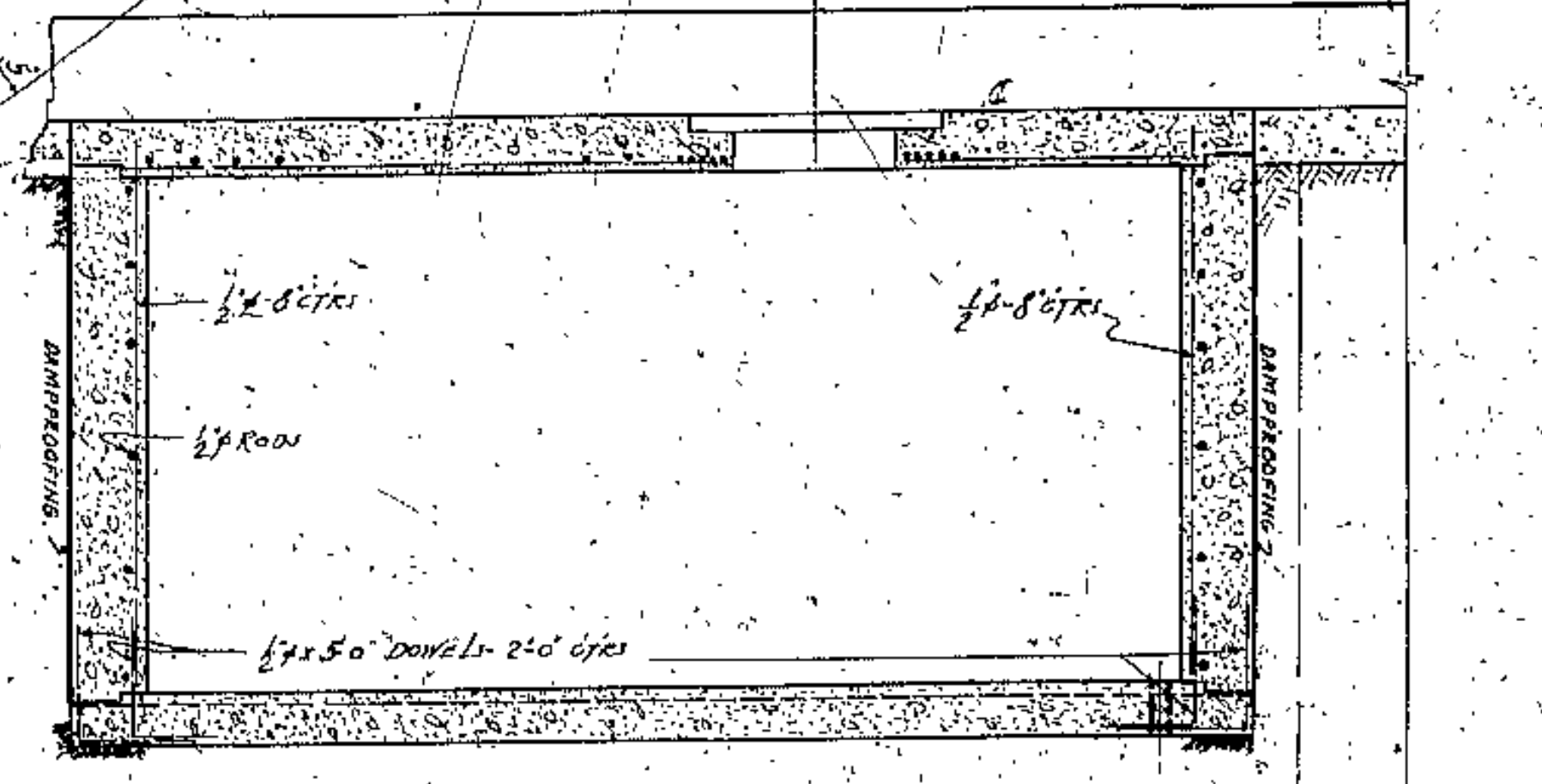
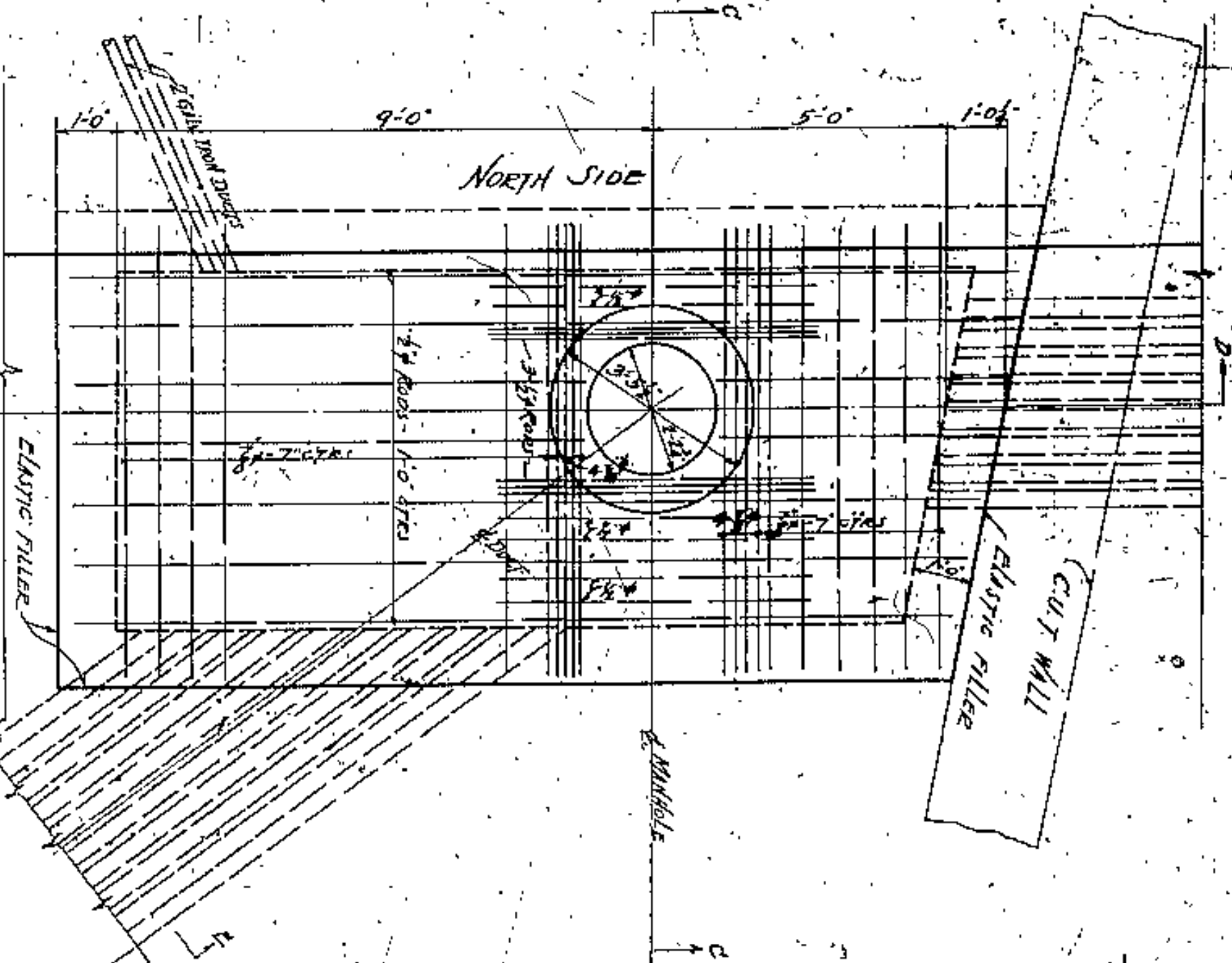
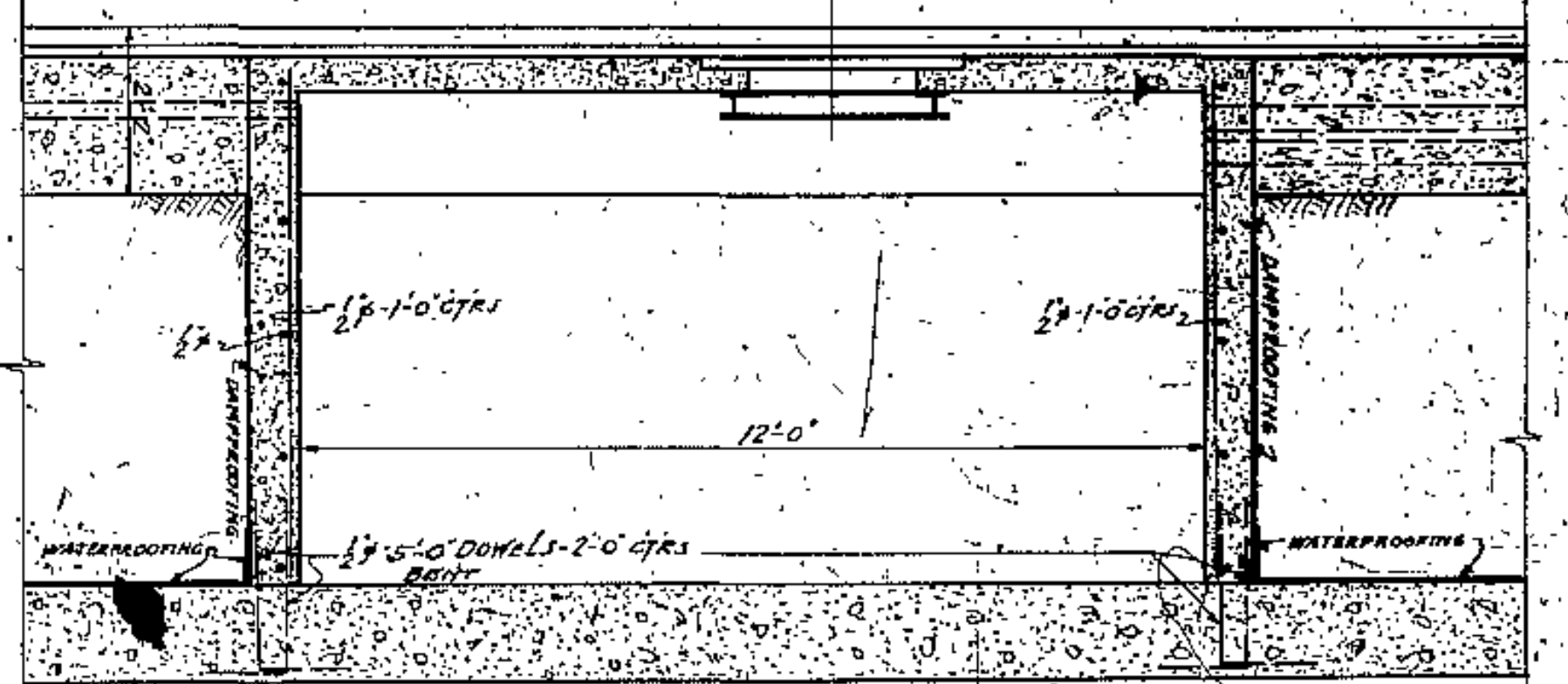
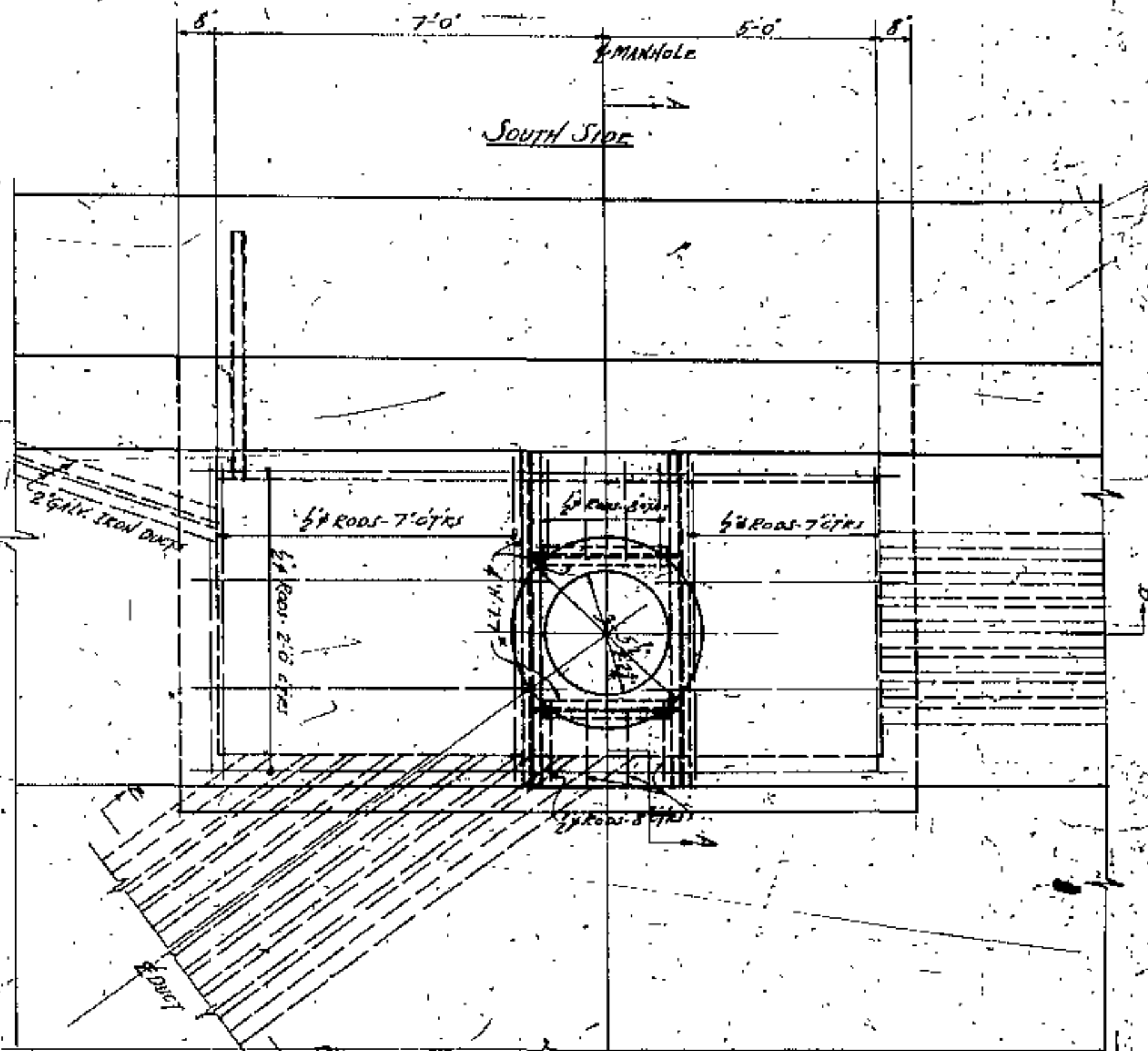
APPROVED BY

GUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 J. R. MUNT  
 CH. HARRIS  
 W. E. COOK  
 COUNTY SHERIFF  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. M. FISCHLITZ

LORAIN CENTRAL BRIDGE  
 CLEVELAND  
 EAST APPROACH  
 ROADWAY

DATE	DESCRIPTION
1913	DESIGNED AND DRAWN BY
1913	CHECKED BY
1913	APPROVED BY
1913	CONTRACT NO.
1913	PROJECT NO.
1913	SHEET NO.





SEE DE 4366-13 FOR LOCATION OF THESE SPICE CHAMBERS

Co. Comm.  
Co. Auditor  
Co. Eng.  
BRIDGE ENG.

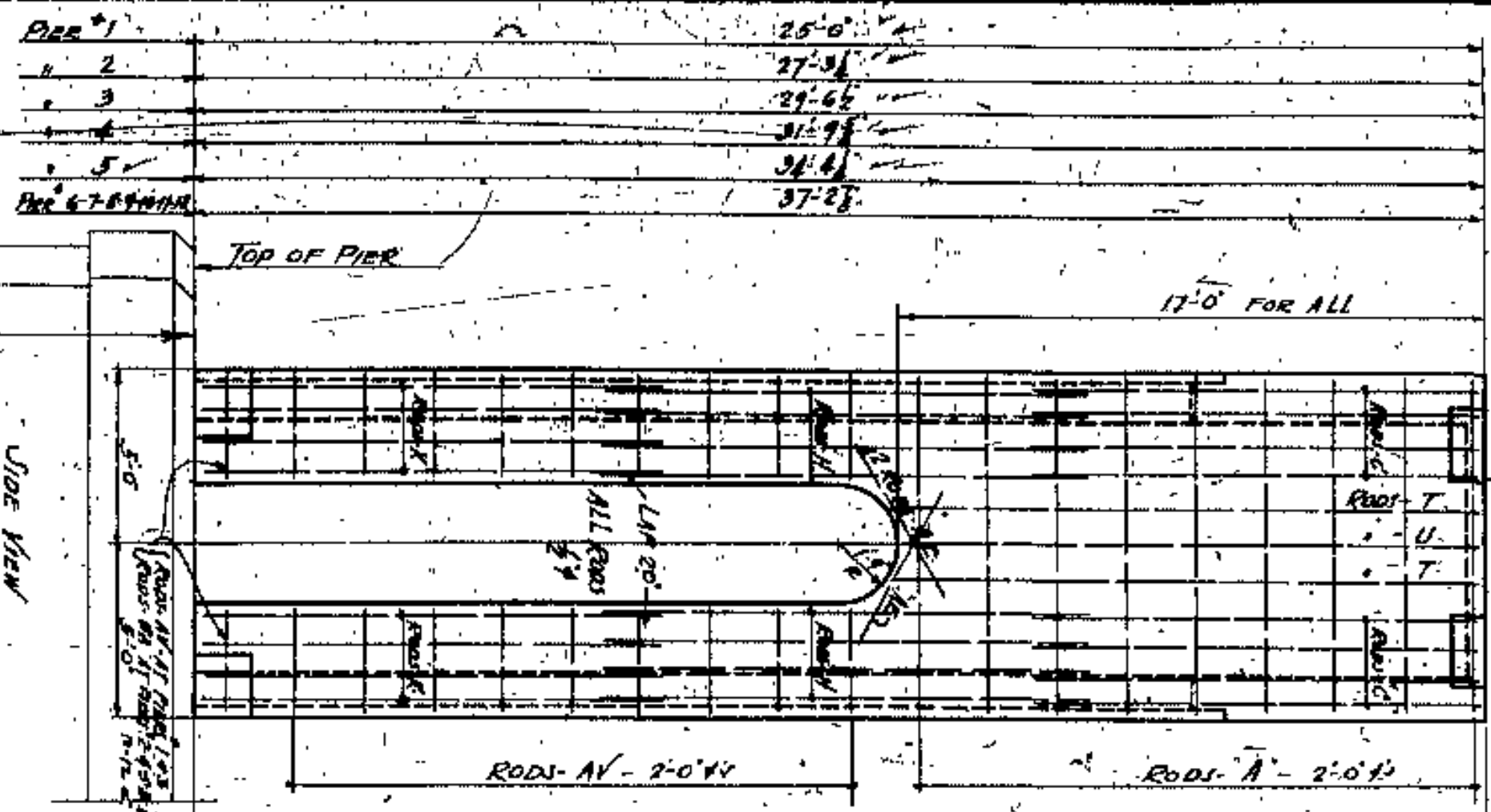
APPROVED BY

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SUPERVISOR
J. R. ZIMMUND	J. R. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. E. COOK	A. M. FELGATE
<b>LORAIN CENTRAL BRIDGE</b>	
<b>FAST APPROACH</b>	
<b>CLEVELAND</b>	
SCALE: 1/4" = 1'-0"	SPICE CHAMBERS
DESIGNED BY: WELBURN WATSON AND F. R. WALKER	DRAWN BY: J. H. HARRIS
CHECKED BY: J. H. HARRIS	DATE: 4-6-23
APPROVED BY: J. H. HARRIS	DATE: 4-6-23
PROJECT NO.: 4366	SHEET NO.: 14
DATE: 4-6-23	SCALE: 1/4" = 1'-0"



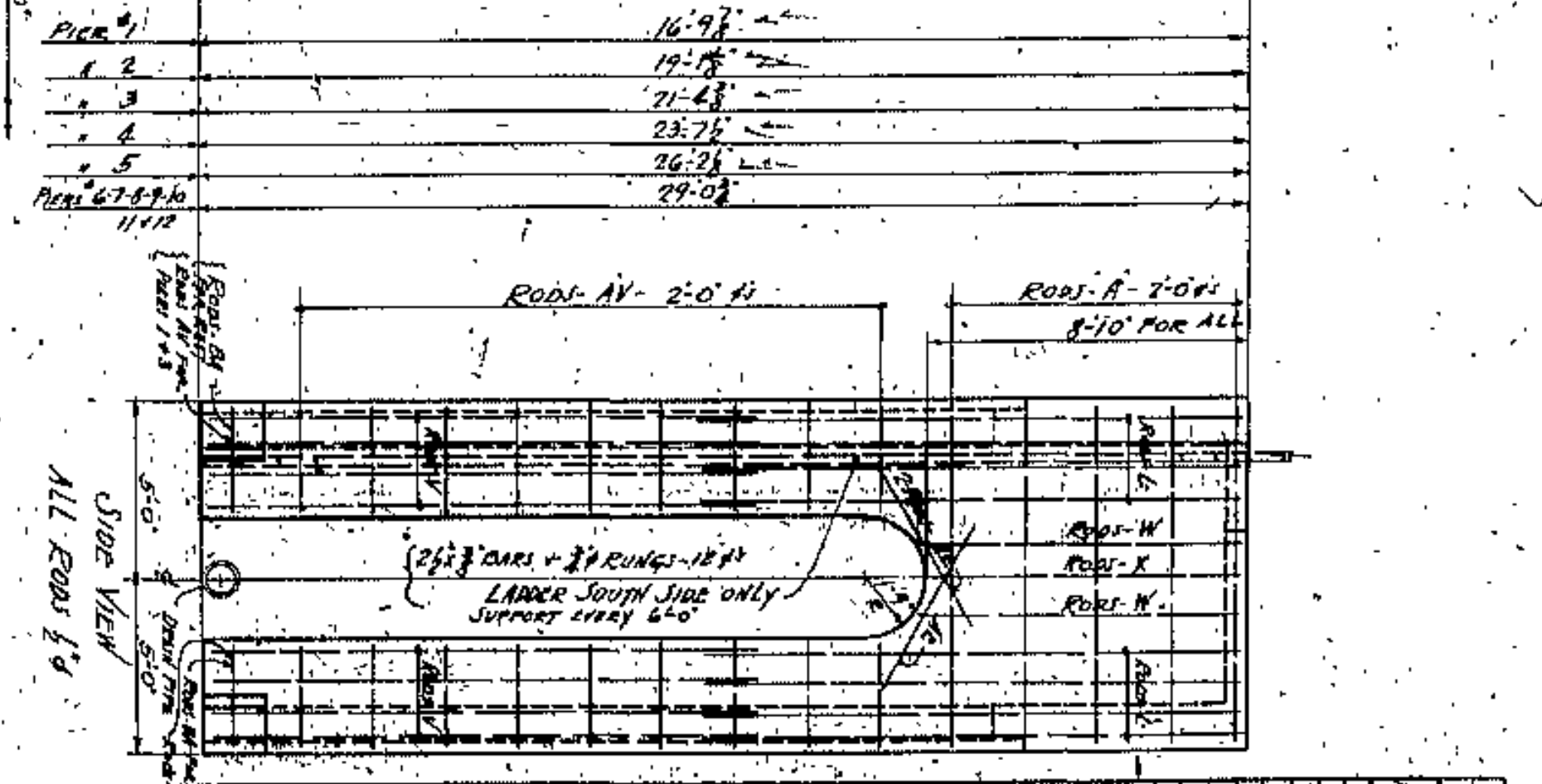
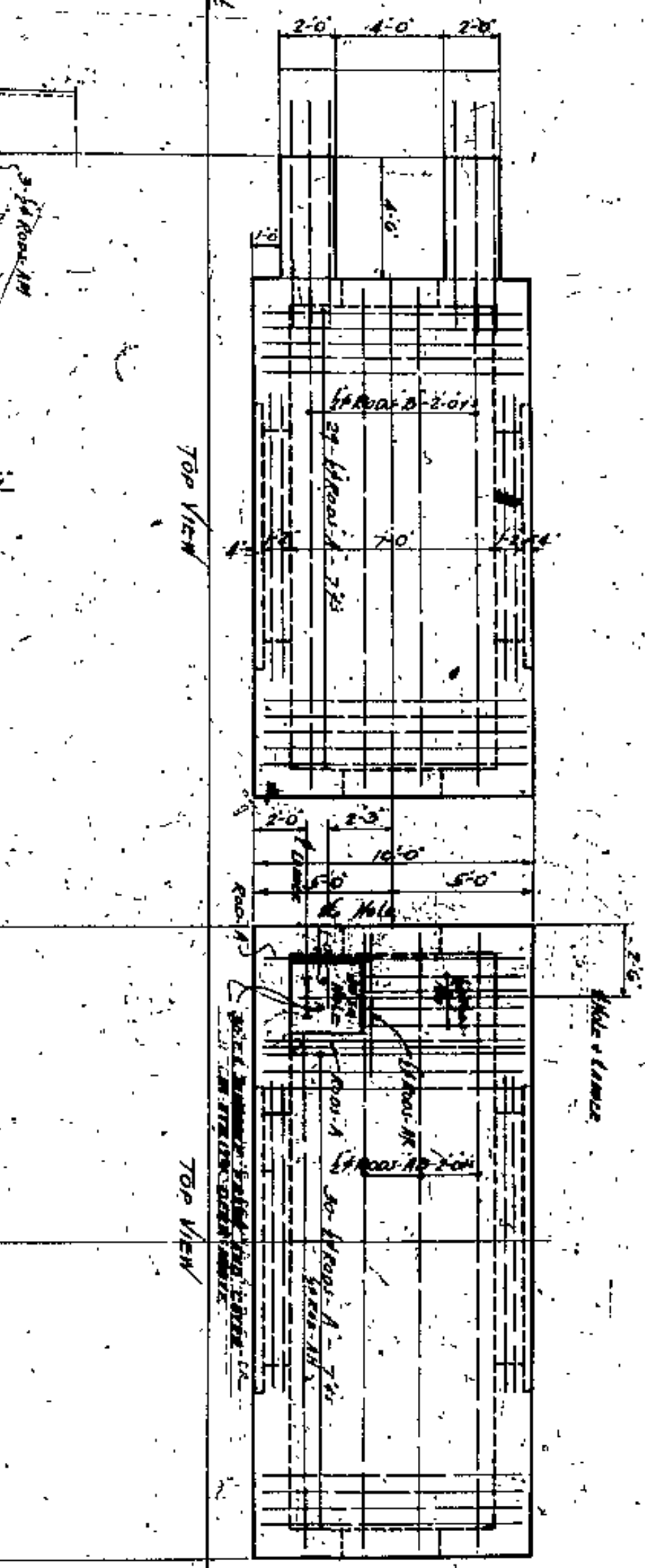
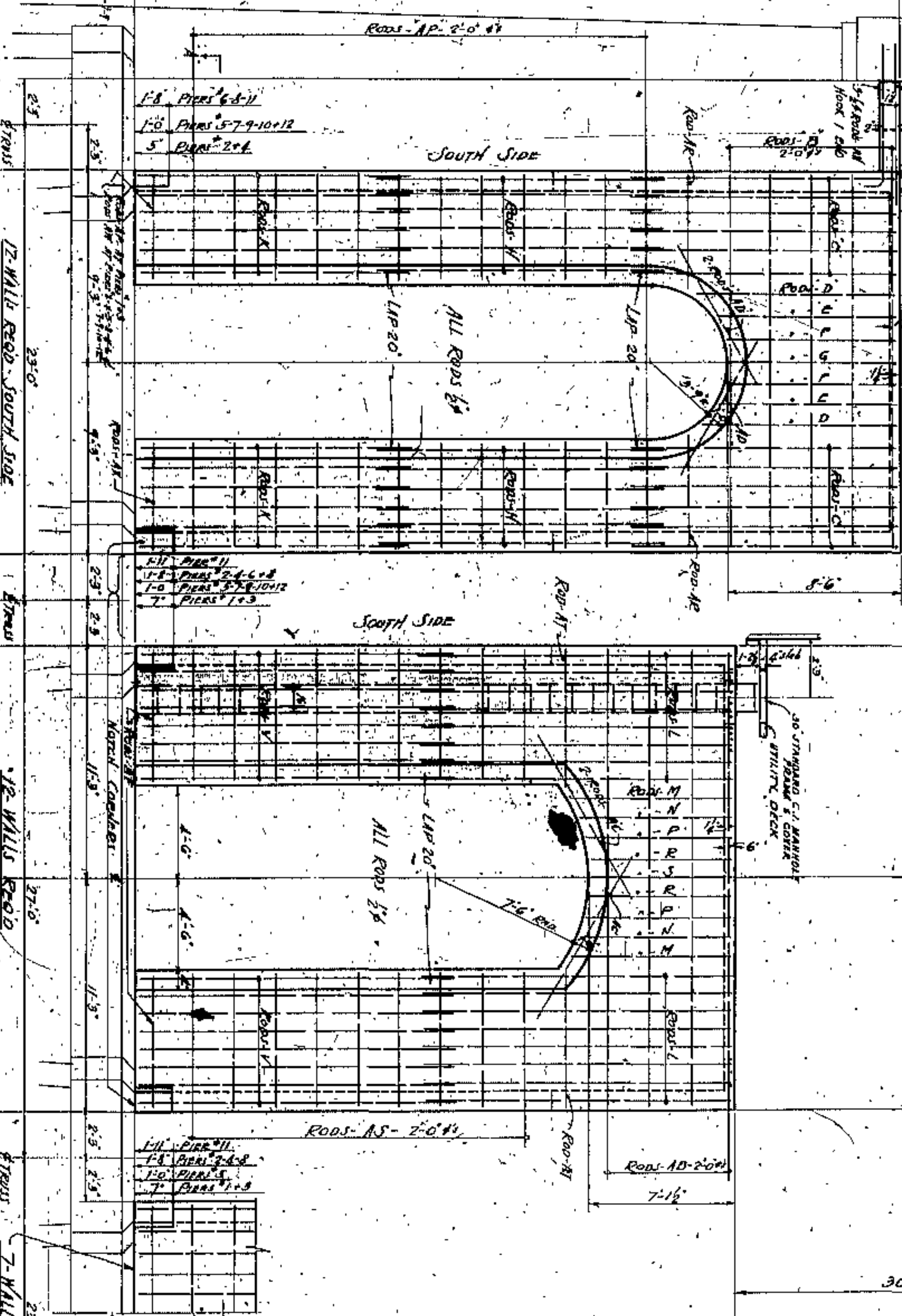
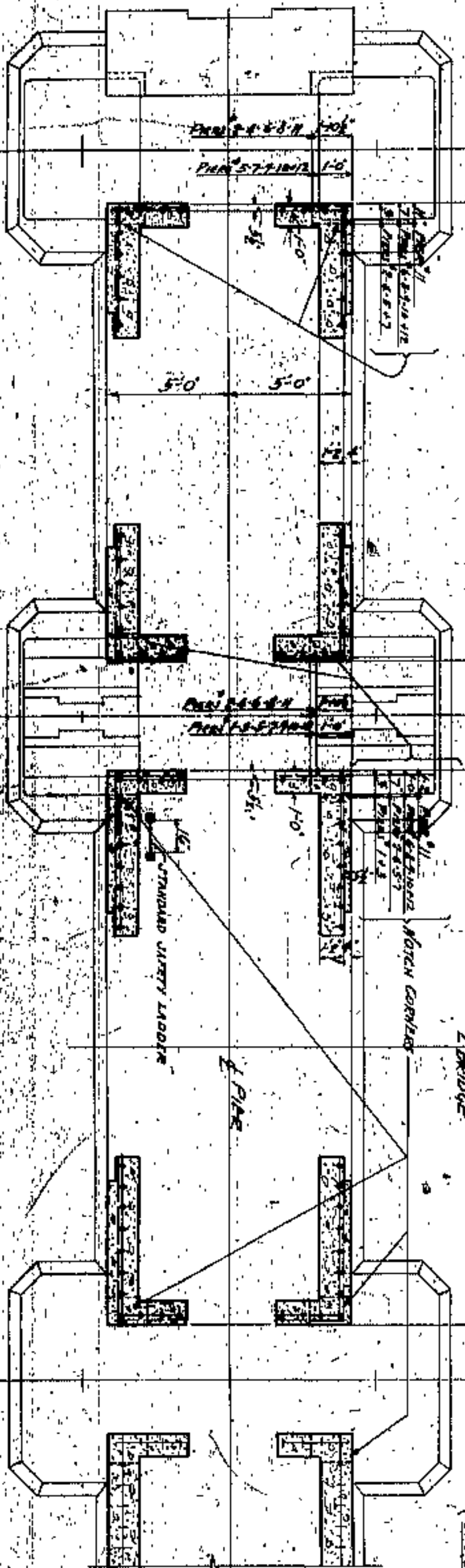
PIER 1 - Elev. 60.81

1	61.82
2	62.82
3	63.81
4	64.77
5	65.69
6	70.33
7	74.53
8	78.12
9	79.36
10	79.8
11	79.8
12	70.61



PIER 1 - Elev. 100.22

1	111.50
2	116.77
3	118.08
4	121.25
5	125.88
6	130.02
7	136.12
8	142.77
9	149.01
10	154.89
11	160.26
12	165.26



Schedule of Reinforcing Steel

All Rods 5/8"

MARK	NO.	DESCRIPTION	LENGTH	WEIGHT	NO. OF POUNDS
A	1	...	...	...	...
A	2	...	...	...	...
A	3	...	...	...	...
A	4	...	...	...	...
A	5	...	...	...	...
B	1	...	...	...	...
B	2	...	...	...	...
B	3	...	...	...	...
B	4	...	...	...	...
B	5	...	...	...	...
C	1	...	...	...	...
C	2	...	...	...	...
C	3	...	...	...	...
C	4	...	...	...	...
C	5	...	...	...	...
D	1	...	...	...	...
D	2	...	...	...	...
D	3	...	...	...	...
D	4	...	...	...	...
D	5	...	...	...	...
E	1	...	...	...	...
E	2	...	...	...	...
E	3	...	...	...	...
E	4	...	...	...	...
E	5	...	...	...	...
F	1	...	...	...	...
F	2	...	...	...	...
F	3	...	...	...	...
F	4	...	...	...	...
F	5	...	...	...	...
G	1	...	...	...	...
G	2	...	...	...	...
G	3	...	...	...	...
G	4	...	...	...	...
G	5	...	...	...	...
H	1	...	...	...	...
H	2	...	...	...	...
H	3	...	...	...	...
H	4	...	...	...	...
H	5	...	...	...	...
I	1	...	...	...	...
I	2	...	...	...	...
I	3	...	...	...	...
I	4	...	...	...	...
I	5	...	...	...	...
J	1	...	...	...	...
J	2	...	...	...	...
J	3	...	...	...	...
J	4	...	...	...	...
J	5	...	...	...	...
K	1	...	...	...	...
K	2	...	...	...	...
K	3	...	...	...	...
K	4	...	...	...	...
K	5	...	...	...	...
L	1	...	...	...	...
L	2	...	...	...	...
L	3	...	...	...	...
L	4	...	...	...	...
L	5	...	...	...	...
M	1	...	...	...	...
M	2	...	...	...	...
M	3	...	...	...	...
M	4	...	...	...	...
M	5	...	...	...	...
N	1	...	...	...	...
N	2	...	...	...	...
N	3	...	...	...	...
N	4	...	...	...	...
N	5	...	...	...	...
O	1	...	...	...	...
O	2	...	...	...	...
O	3	...	...	...	...
O	4	...	...	...	...
O	5	...	...	...	...
P	1	...	...	...	...
P	2	...	...	...	...
P	3	...	...	...	...
P	4	...	...	...	...
P	5	...	...	...	...
Q	1	...	...	...	...
Q	2	...	...	...	...
Q	3	...	...	...	...
Q	4	...	...	...	...
Q	5	...	...	...	...
R	1	...	...	...	...
R	2	...	...	...	...
R	3	...	...	...	...
R	4	...	...	...	...
R	5	...	...	...	...
S	1	...	...	...	...
S	2	...	...	...	...
S	3	...	...	...	...
S	4	...	...	...	...
S	5	...	...	...	...

APPROVED BY

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SUPERVISOR  
 J. R. SMITH  
 J. H. HARRIS  
 W. E. COOK

COUNTY ENGINEER  
 A. M. FELTZ

DETAIL OF WALLS ON PIERS  
 LORAIN CENTRAL BRIDGE  
 CLEVELAND

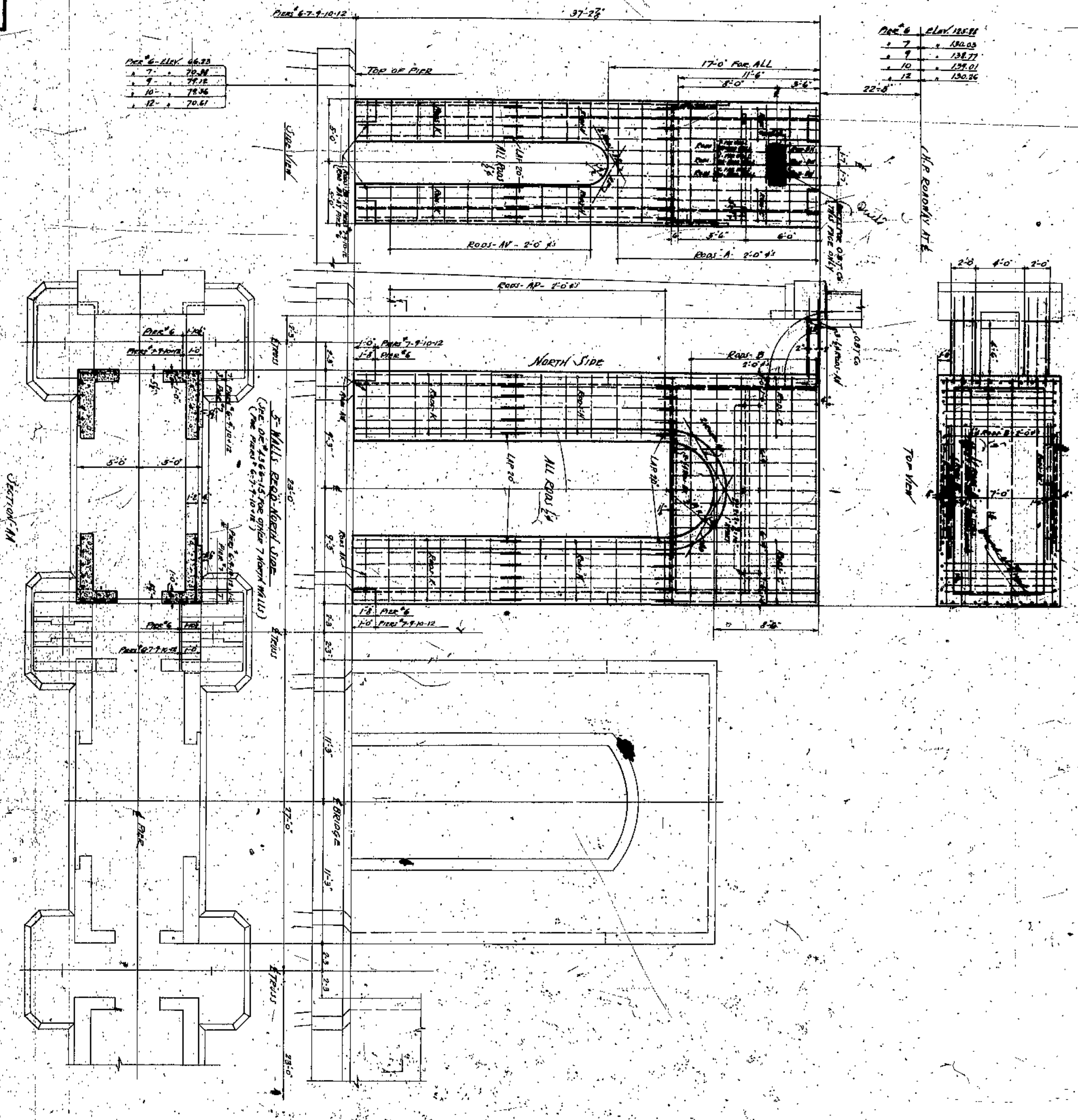
ENGINEER  
 W. H. HARRIS  
 4366  
 CLEVELAND

DATE  
 1915



Pier #	Elev
6	66.23
7	70.84
9	78.12
10	78.56
12	70.61

Pier #	Elev
7	130.05
9	138.77
10	137.01
12	130.36



Schedule of Reinforcing

PIER #	ROD #	SIZE	LENGTH	WEIGHT
6	1	1/2"	11.0	1.2
6	2	1/2"	11.0	1.2
6	3	1/2"	11.0	1.2
6	4	1/2"	11.0	1.2
6	5	1/2"	11.0	1.2
6	6	1/2"	11.0	1.2
6	7	1/2"	11.0	1.2
6	8	1/2"	11.0	1.2
6	9	1/2"	11.0	1.2
6	10	1/2"	11.0	1.2
6	11	1/2"	11.0	1.2
6	12	1/2"	11.0	1.2
6	13	1/2"	11.0	1.2
6	14	1/2"	11.0	1.2
6	15	1/2"	11.0	1.2
6	16	1/2"	11.0	1.2
6	17	1/2"	11.0	1.2
6	18	1/2"	11.0	1.2
6	19	1/2"	11.0	1.2
6	20	1/2"	11.0	1.2
6	21	1/2"	11.0	1.2
6	22	1/2"	11.0	1.2
6	23	1/2"	11.0	1.2
6	24	1/2"	11.0	1.2
6	25	1/2"	11.0	1.2
6	26	1/2"	11.0	1.2
6	27	1/2"	11.0	1.2
6	28	1/2"	11.0	1.2
6	29	1/2"	11.0	1.2
6	30	1/2"	11.0	1.2
6	31	1/2"	11.0	1.2
6	32	1/2"	11.0	1.2
6	33	1/2"	11.0	1.2
6	34	1/2"	11.0	1.2
6	35	1/2"	11.0	1.2
6	36	1/2"	11.0	1.2
6	37	1/2"	11.0	1.2
6	38	1/2"	11.0	1.2
6	39	1/2"	11.0	1.2
6	40	1/2"	11.0	1.2
6	41	1/2"	11.0	1.2
6	42	1/2"	11.0	1.2
6	43	1/2"	11.0	1.2
6	44	1/2"	11.0	1.2
6	45	1/2"	11.0	1.2
6	46	1/2"	11.0	1.2
6	47	1/2"	11.0	1.2
6	48	1/2"	11.0	1.2
6	49	1/2"	11.0	1.2
6	50	1/2"	11.0	1.2
6	51	1/2"	11.0	1.2
6	52	1/2"	11.0	1.2
6	53	1/2"	11.0	1.2
6	54	1/2"	11.0	1.2
6	55	1/2"	11.0	1.2
6	56	1/2"	11.0	1.2
6	57	1/2"	11.0	1.2
6	58	1/2"	11.0	1.2
6	59	1/2"	11.0	1.2
6	60	1/2"	11.0	1.2
6	61	1/2"	11.0	1.2
6	62	1/2"	11.0	1.2
6	63	1/2"	11.0	1.2
6	64	1/2"	11.0	1.2
6	65	1/2"	11.0	1.2
6	66	1/2"	11.0	1.2
6	67	1/2"	11.0	1.2
6	68	1/2"	11.0	1.2
6	69	1/2"	11.0	1.2
6	70	1/2"	11.0	1.2
6	71	1/2"	11.0	1.2
6	72	1/2"	11.0	1.2
6	73	1/2"	11.0	1.2
6	74	1/2"	11.0	1.2
6	75	1/2"	11.0	1.2
6	76	1/2"	11.0	1.2
6	77	1/2"	11.0	1.2
6	78	1/2"	11.0	1.2
6	79	1/2"	11.0	1.2
6	80	1/2"	11.0	1.2
6	81	1/2"	11.0	1.2
6	82	1/2"	11.0	1.2
6	83	1/2"	11.0	1.2
6	84	1/2"	11.0	1.2
6	85	1/2"	11.0	1.2
6	86	1/2"	11.0	1.2
6	87	1/2"	11.0	1.2
6	88	1/2"	11.0	1.2
6	89	1/2"	11.0	1.2
6	90	1/2"	11.0	1.2
6	91	1/2"	11.0	1.2
6	92	1/2"	11.0	1.2
6	93	1/2"	11.0	1.2
6	94	1/2"	11.0	1.2
6	95	1/2"	11.0	1.2
6	96	1/2"	11.0	1.2
6	97	1/2"	11.0	1.2
6	98	1/2"	11.0	1.2
6	99	1/2"	11.0	1.2
6	100	1/2"	11.0	1.2

APPROVED BY

CUYAHOGA COUNTY  
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 COUNTY SUPERVISOR  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. W. PELTZER  
 W. E. COOK

LORAIN CENTRAL BRIDGE  
 CLEVELAND

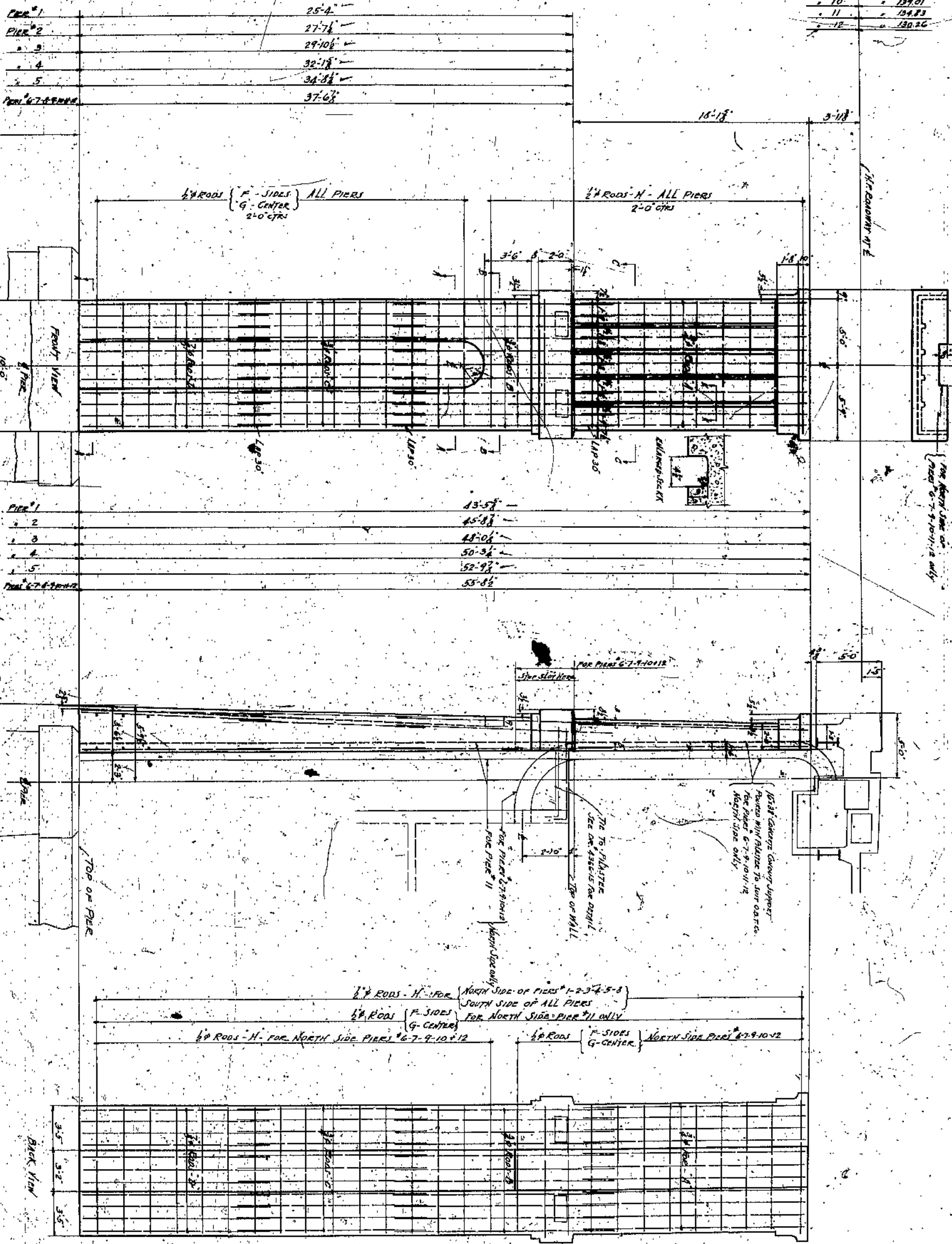
DESIGN BY WALLS ON PIERS

MANAGER WATSON AND FRANKLIN  
 CONSULTING ENGINEERS AND ARCHITECTS  
 16



Pier #	Elev. 100.00
2	111.50
3	116.27
4	118.05
5	121.75
6	125.88
7	130.03
8	134.18
9	138.77
10	139.01
11	134.83
12	130.26

Pier #	Elev. 100.00
2	61.82
3	67.82
4	63.84
5	64.19
6	66.23
7	70.38
8	74.53
9	79.12
10	79.36
11	75.16
12	70.61



See C.C. Pier Height Schedule  
for Pier # 2-7-9-10-11-12 only

See C.C. Pier All Piers  
except Pier # 2-7-9-10-11-12

Use 1/2" concrete cover on top of  
rebar with plaster to four corners  
for Pier # 2-7-9-10-11-12  
Reinforce only

Table of Reinforcing Steel Rods & PLYSTERS

Item	Quantity	Unit	Weight	Total Weight
1	100	ft	1.10	110.00
2	200	ft	1.10	220.00
3	300	ft	1.10	330.00
4	400	ft	1.10	440.00
5	500	ft	1.10	550.00
6	600	ft	1.10	660.00
7	700	ft	1.10	770.00
8	800	ft	1.10	880.00
9	900	ft	1.10	990.00
10	1000	ft	1.10	1100.00
11	1100	ft	1.10	1210.00
12	1200	ft	1.10	1320.00
13	1300	ft	1.10	1430.00
14	1400	ft	1.10	1540.00
15	1500	ft	1.10	1650.00
16	1600	ft	1.10	1760.00
17	1700	ft	1.10	1870.00
18	1800	ft	1.10	1980.00
19	1900	ft	1.10	2090.00
20	2000	ft	1.10	2200.00
21	2100	ft	1.10	2310.00
22	2200	ft	1.10	2420.00
23	2300	ft	1.10	2530.00
24	2400	ft	1.10	2640.00
25	2500	ft	1.10	2750.00
26	2600	ft	1.10	2860.00
27	2700	ft	1.10	2970.00
28	2800	ft	1.10	3080.00
29	2900	ft	1.10	3190.00
30	3000	ft	1.10	3300.00
31	3100	ft	1.10	3410.00
32	3200	ft	1.10	3520.00
33	3300	ft	1.10	3630.00
34	3400	ft	1.10	3740.00
35	3500	ft	1.10	3850.00
36	3600	ft	1.10	3960.00
37	3700	ft	1.10	4070.00
38	3800	ft	1.10	4180.00
39	3900	ft	1.10	4290.00
40	4000	ft	1.10	4400.00
41	4100	ft	1.10	4510.00
42	4200	ft	1.10	4620.00
43	4300	ft	1.10	4730.00
44	4400	ft	1.10	4840.00
45	4500	ft	1.10	4950.00
46	4600	ft	1.10	5060.00
47	4700	ft	1.10	5170.00
48	4800	ft	1.10	5280.00
49	4900	ft	1.10	5390.00
50	5000	ft	1.10	5500.00
51	5100	ft	1.10	5610.00
52	5200	ft	1.10	5720.00
53	5300	ft	1.10	5830.00
54	5400	ft	1.10	5940.00
55	5500	ft	1.10	6050.00
56	5600	ft	1.10	6160.00
57	5700	ft	1.10	6270.00
58	5800	ft	1.10	6380.00
59	5900	ft	1.10	6490.00
60	6000	ft	1.10	6600.00
61	6100	ft	1.10	6710.00
62	6200	ft	1.10	6820.00
63	6300	ft	1.10	6930.00
64	6400	ft	1.10	7040.00
65	6500	ft	1.10	7150.00
66	6600	ft	1.10	7260.00
67	6700	ft	1.10	7370.00
68	6800	ft	1.10	7480.00
69	6900	ft	1.10	7590.00
70	7000	ft	1.10	7700.00
71	7100	ft	1.10	7810.00
72	7200	ft	1.10	7920.00
73	7300	ft	1.10	8030.00
74	7400	ft	1.10	8140.00
75	7500	ft	1.10	8250.00
76	7600	ft	1.10	8360.00
77	7700	ft	1.10	8470.00
78	7800	ft	1.10	8580.00
79	7900	ft	1.10	8690.00
80	8000	ft	1.10	8800.00
81	8100	ft	1.10	8910.00
82	8200	ft	1.10	9020.00
83	8300	ft	1.10	9130.00
84	8400	ft	1.10	9240.00
85	8500	ft	1.10	9350.00
86	8600	ft	1.10	9460.00
87	8700	ft	1.10	9570.00
88	8800	ft	1.10	9680.00
89	8900	ft	1.10	9790.00
90	9000	ft	1.10	9900.00
91	9100	ft	1.10	10010.00
92	9200	ft	1.10	10120.00
93	9300	ft	1.10	10230.00
94	9400	ft	1.10	10340.00
95	9500	ft	1.10	10450.00
96	9600	ft	1.10	10560.00
97	9700	ft	1.10	10670.00
98	9800	ft	1.10	10780.00
99	9900	ft	1.10	10890.00
100	10000	ft	1.10	11000.00

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 COUNTY BRIDGE ENGINEER  
 A. M. FELGATE  
 W. E. COOK

LORAIN CENTRAL BRIDGE  
 CLEVELAND

DETAIL OF PLYSTERS AT PIERS

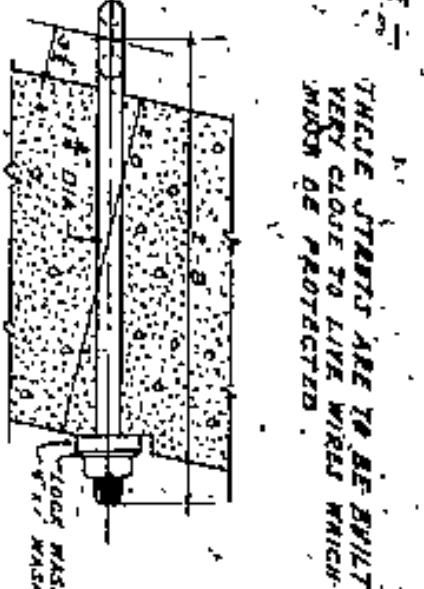
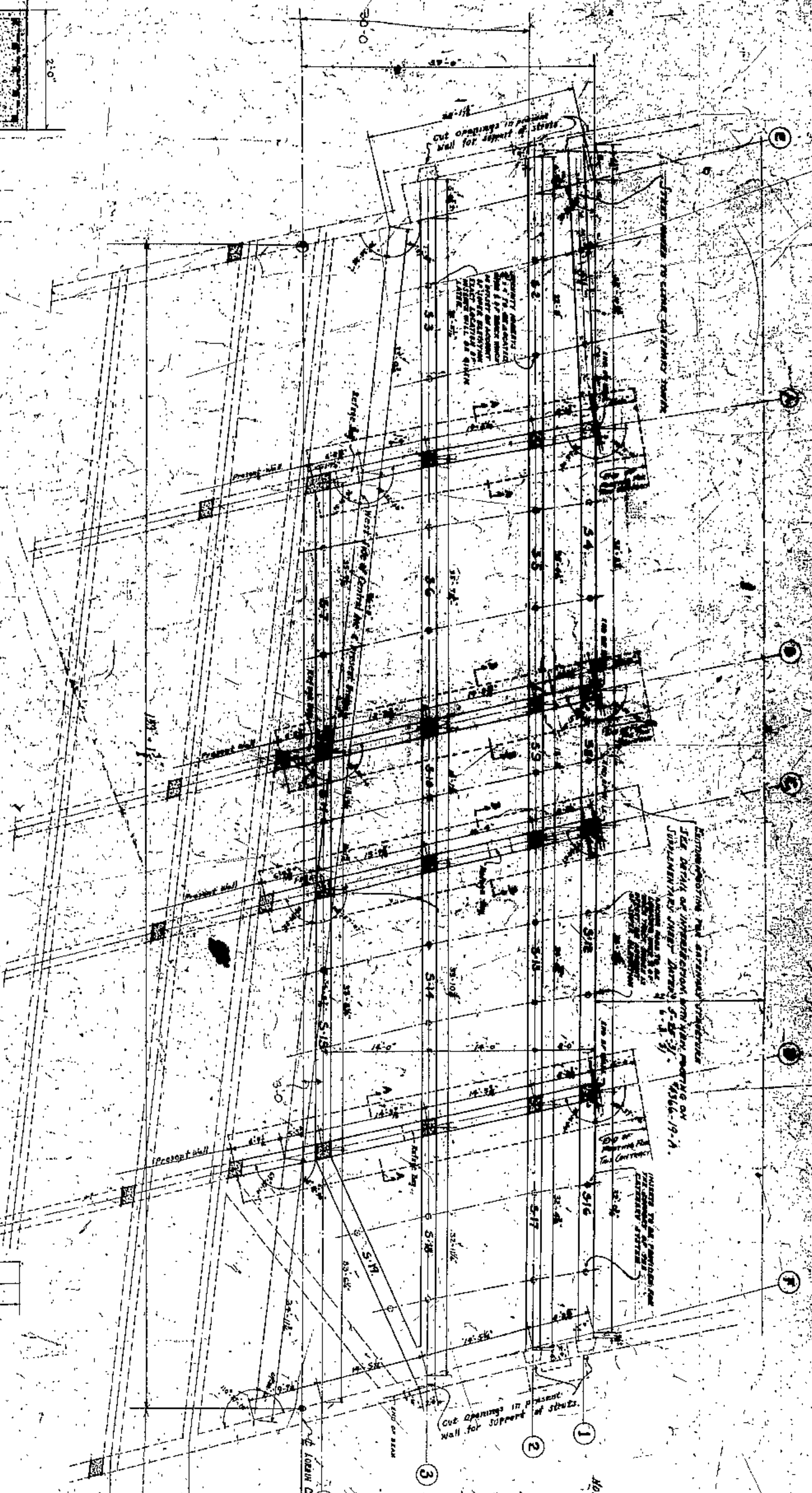
SCALE 1/4" = 1'-0"

WILSON HATSON AND FERNALKE  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND





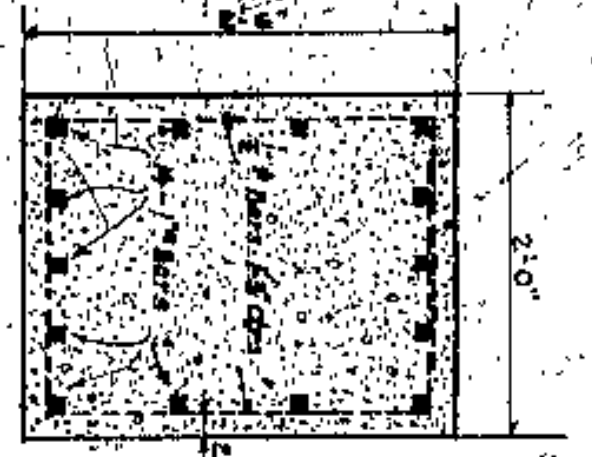




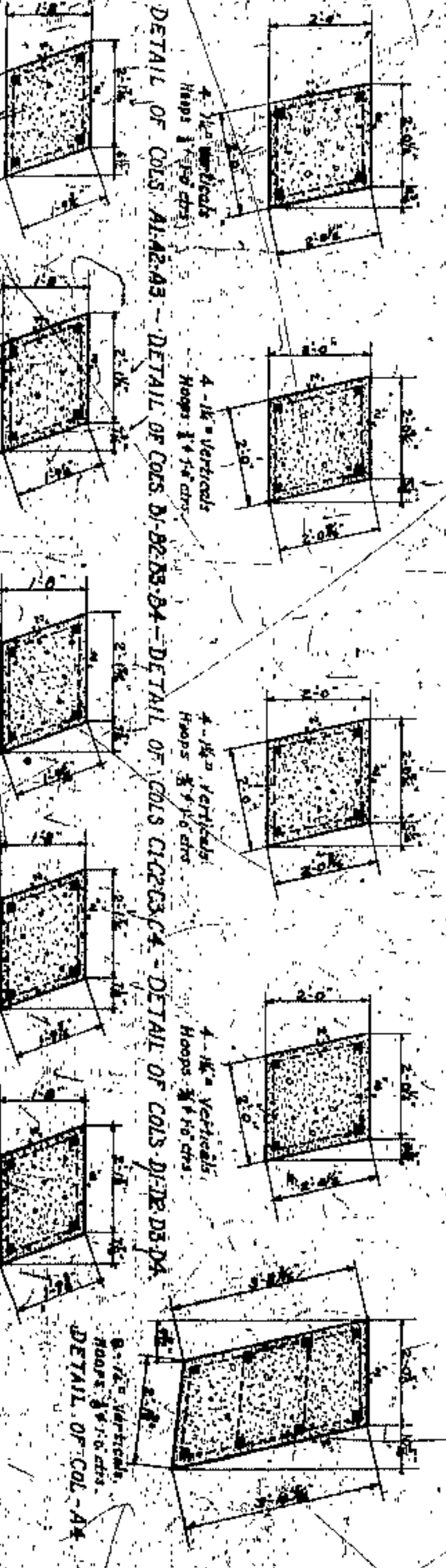
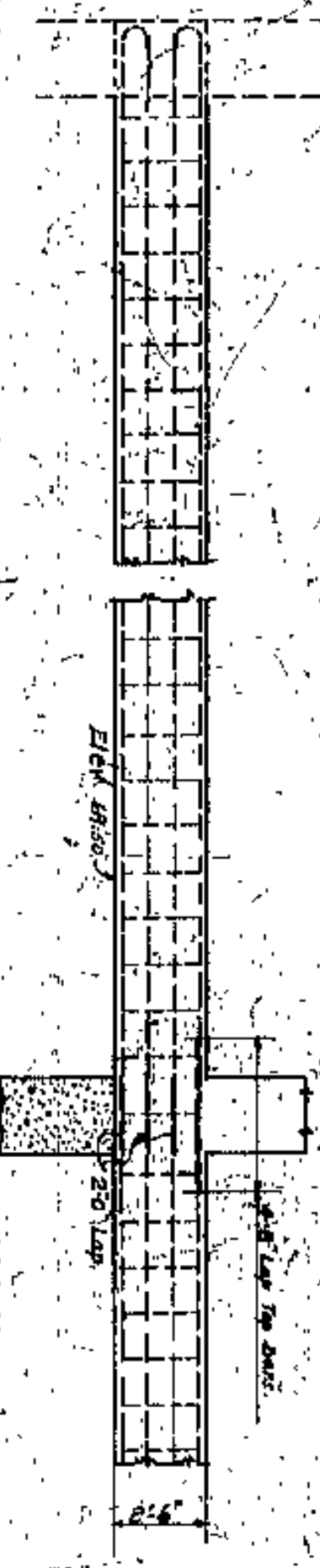
TYPICAL DETAILS OF ANCHOR RODS  
SCALE 1/2" = 1'-0"

NOTE - THESE STRUTS ARE TO BE BUILT VERY CLOSE TO LIVE WALL WHICH MUST BE PROTECTED.  
ALL PARTS OF SECTION & NUMBER ARE SHOWN ATTACHED TO BE NOT AN OMISSION. (SEE NOTES) REFER BACK TO BE FORGED (NOT WELDED)

TYPICAL SECTION OF STRUTS  
SCALE 3/4" = 1'-0"



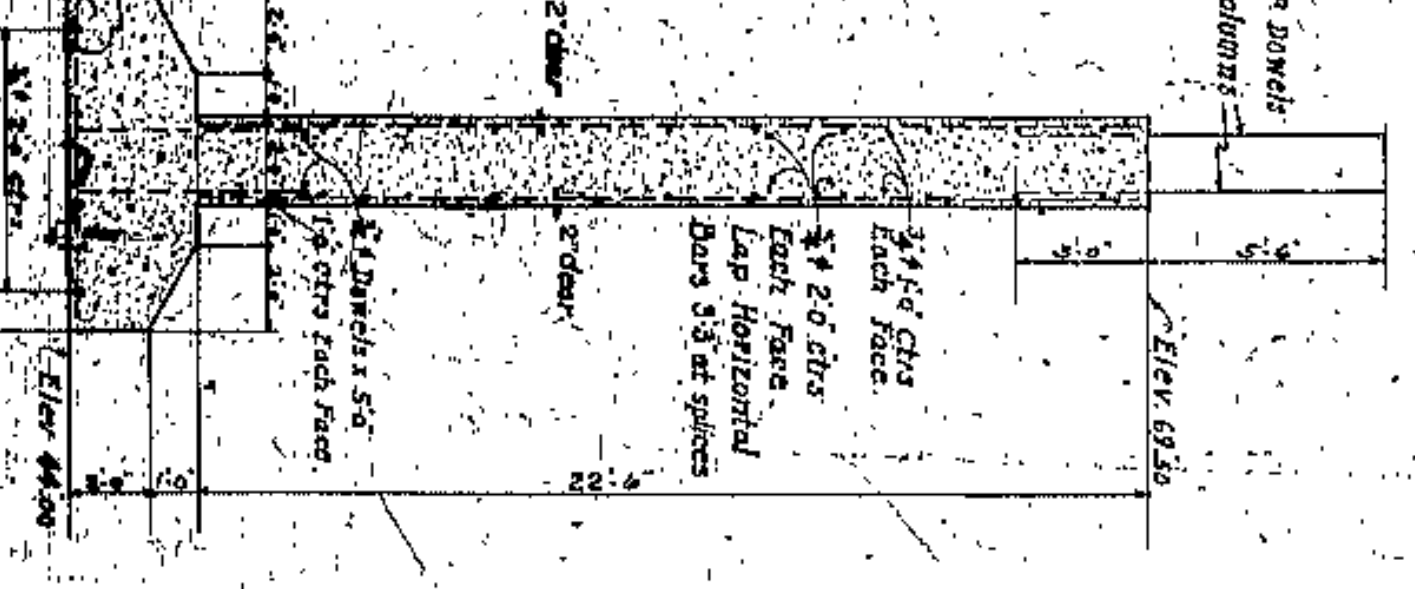
TYPICAL ELEVATION OF STRUTS



DETAIL OF COLS ON LINES 1-2 & 4  
DETAIL OF COLS ON LINES 5 & 6



DETAIL OF REFUGE BAY



SECTION A-A  
SECTION B-B

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CUYAHOGA COUNTY  
COUNTY SUPERVISOR  
F. S. WILLIAMS  
COUNTY BRIDGE ENGINEER  
A. M. FLETCHER

LORAIN - CENTRAL BRIDGE  
CLEVELAND, O.

CENTRAL AVE. BRIDGE EXTENSION

SCALE 3/4" = 1'-0"

DESIGNED BY	WILBUR WATSON AND F. R. WALKER
CHECKED BY	F. R. WALKER
DATE	12/15/19
PROJECT NO.	100-100
CONTRACT NO.	100-100
CONTRACT DESCRIPTION	BRIDGE EXTENSION
CONTRACT LOCATION	CLEVELAND
CONTRACT OWNER	CITY OF CLEVELAND
CONTRACT NO.	100-100
CONTRACT DESCRIPTION	BRIDGE EXTENSION
CONTRACT LOCATION	CLEVELAND
CONTRACT OWNER	CITY OF CLEVELAND









CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SURVEYOR  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. W. FELGATE

W. E. COOK

LORAIN CENTRAL BRIDGE  
 CLEVELAND, O

CENTRAL AVE BRIDGE EXTENSION

SCALE 1/4" = 1'-0"

WILBUR WATSON AND F. R. WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND, O

APPROVED BY

DETAIL OF SIDEWALK  
 ON SOUTH SIDE  
 Waterproofing  
 3/4" x 1/2" x 1/2" Bit  
 Cement Mortar  
 1/2" x 1/2" x 1/2" Bit  
 Cement Mortar  
 1/2" x 1/2" x 1/2" Bit  
 Cement Mortar

40-48  
 DETAIL OF LAMP BASE NORTH SIDE  
 SOUTH SIDE SIMILAR  
 EXCEPT AS NOTED  
 DETAIL OF SIDEWALK

SECTION J-J

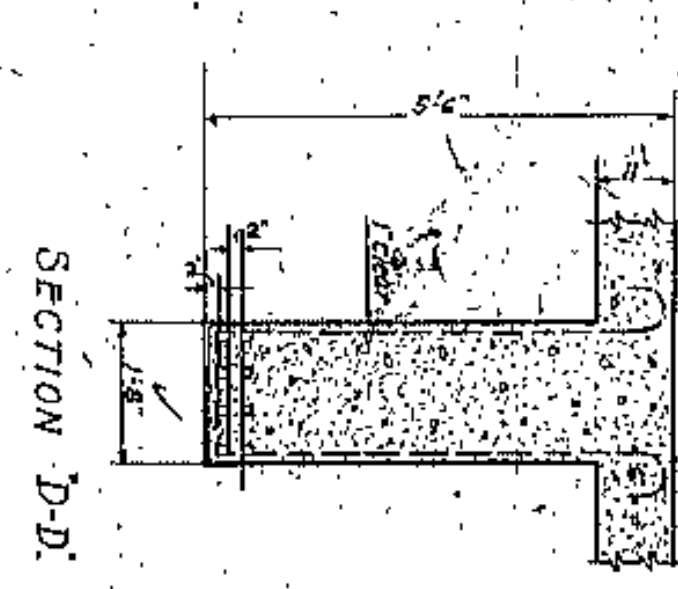
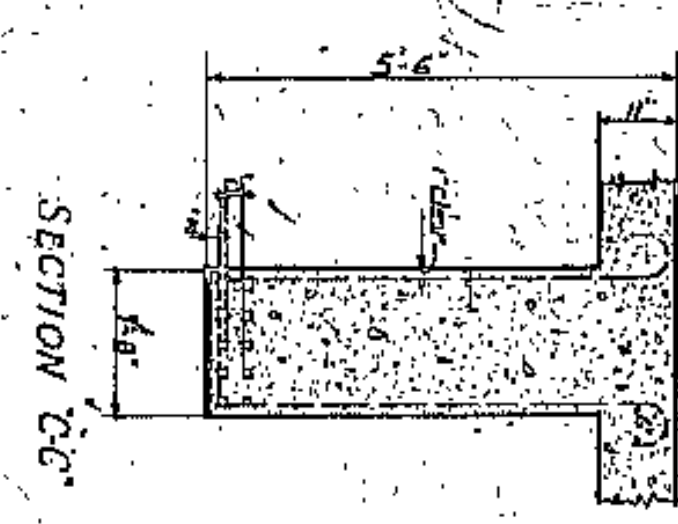
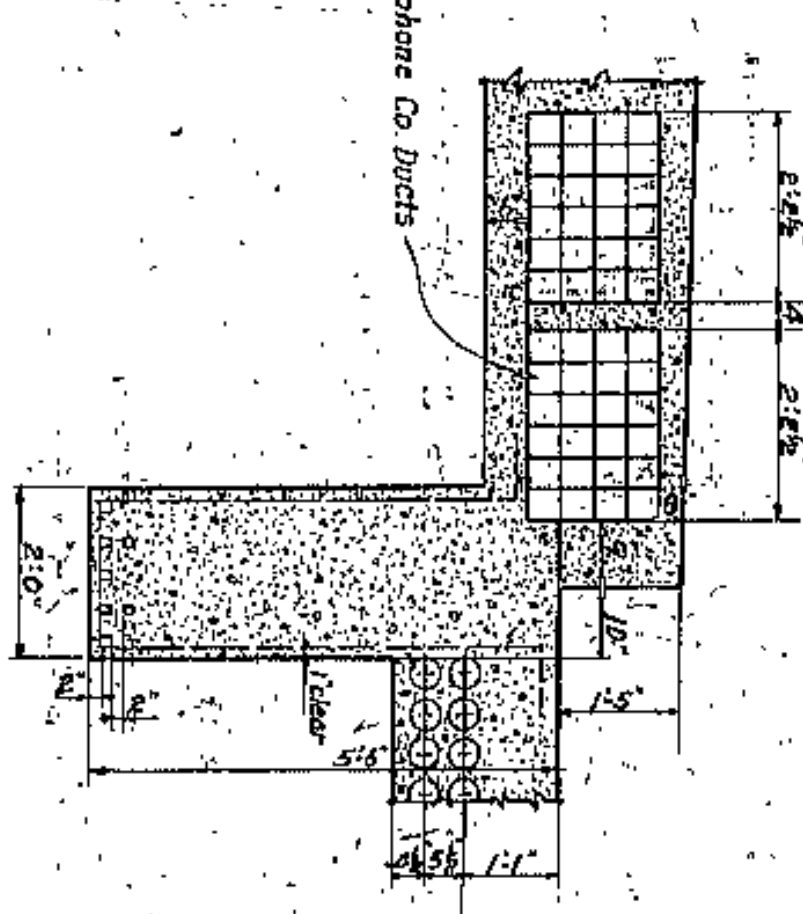
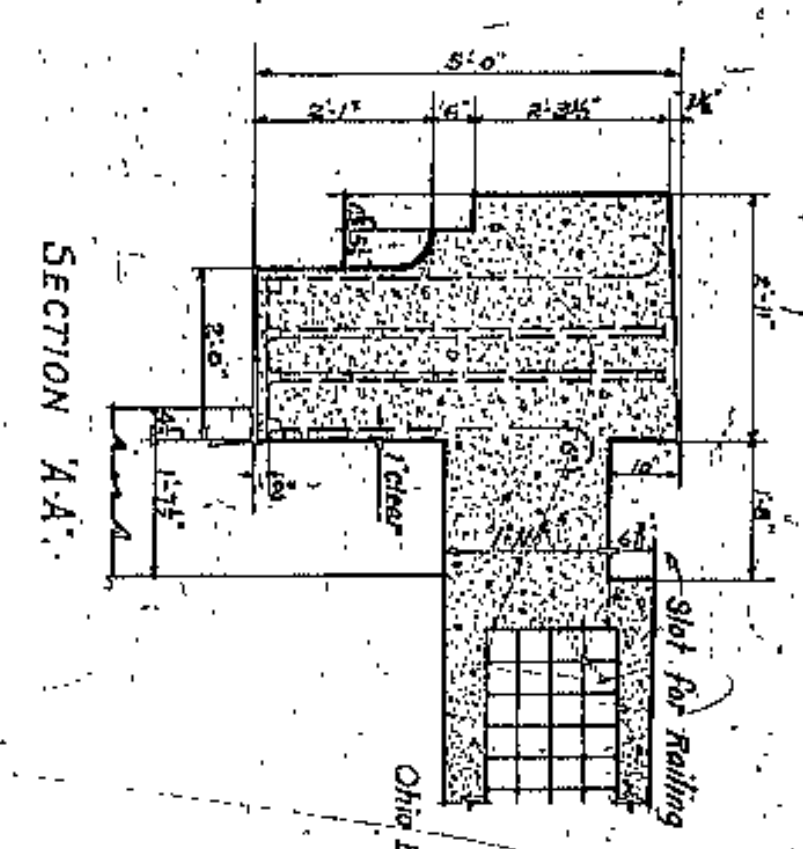
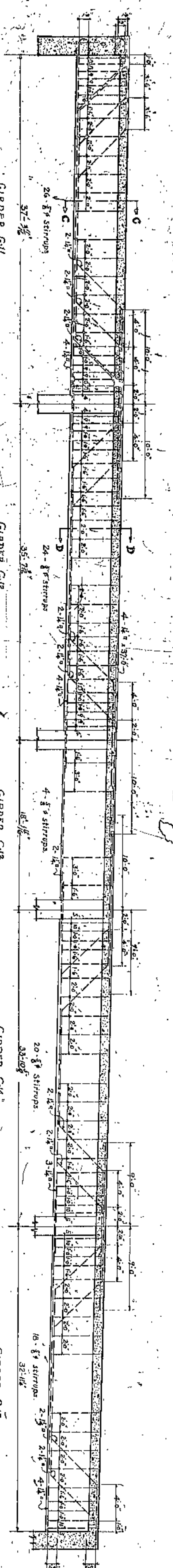
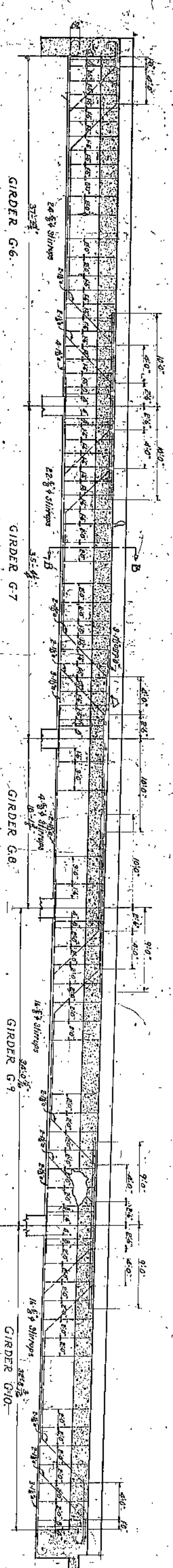
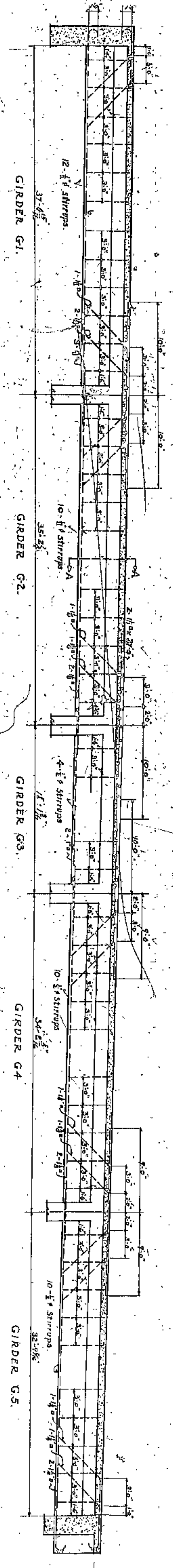
2" x 4" Lamp  
 2" diameter pipe  
 1/2" diameter pipe

SECTION H-H

2" x 4" Lamp  
 2" diameter pipe  
 1/2" diameter pipe







APPROVED BY \_\_\_\_\_

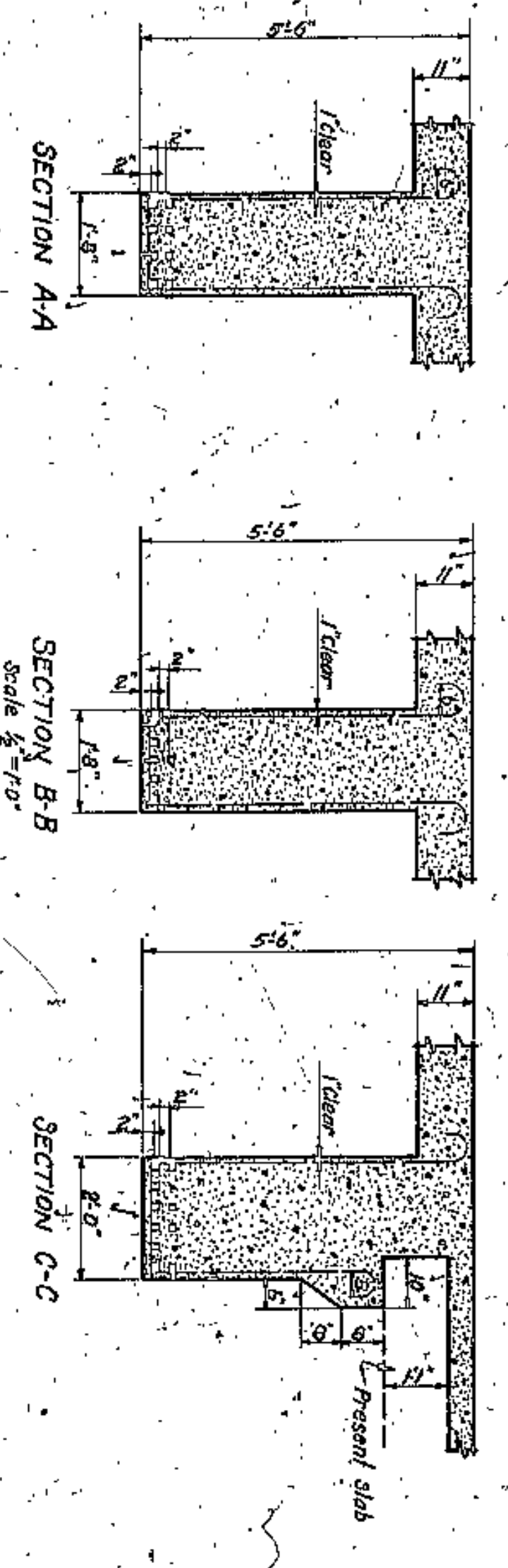
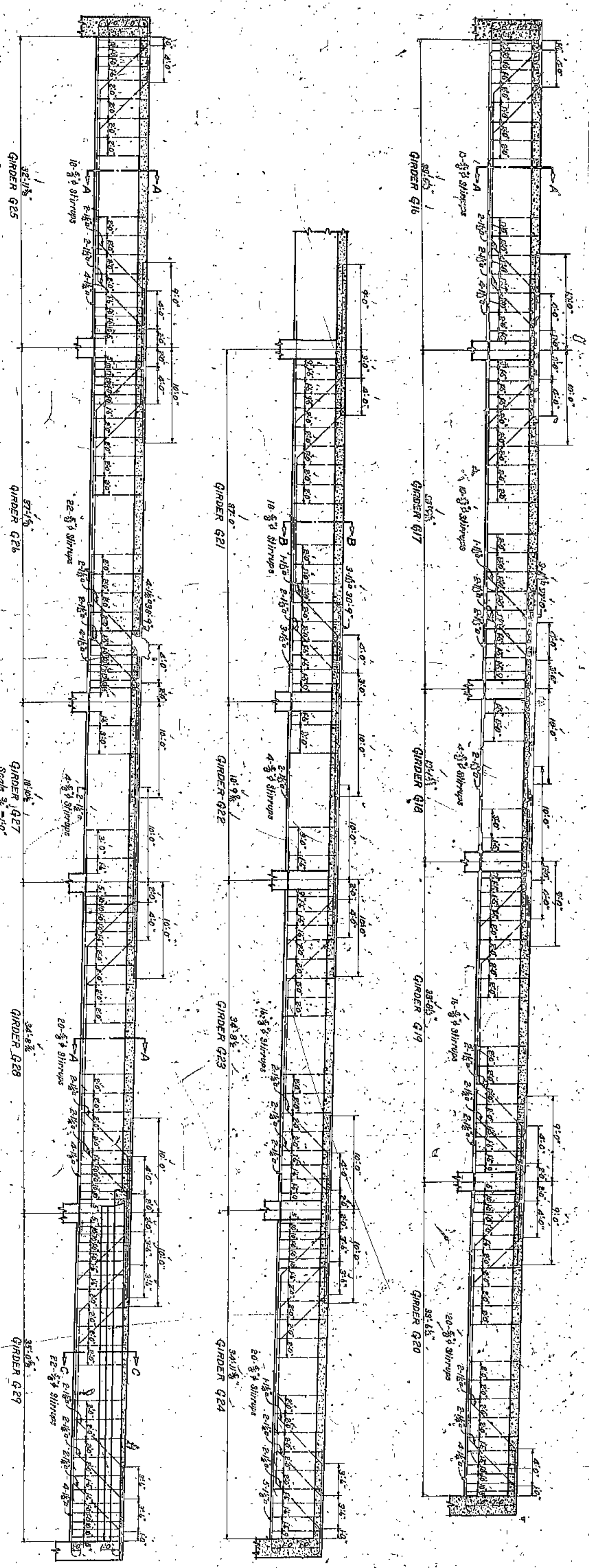
CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SUPERVISOR  
 J. R. ZIMMERT  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK  
 A. M. FELGATE

LORAIN - CENTRAL BRIDGE  
 CLEVELAND, O.

CENTRAL AVE BRIDGE EXTENSION  
 SCALE 3/8" = 1'-0"

FILE NO.	4584	DRAWING NO.	21
DATE	12/20/20	DATE	12/20/20
DESIGNED BY	WILBUR WATSON AND F. R. WALKER	CHECKED BY	W. E. COOK
DRAWN BY	CONSULTING ENGINEERS AND ARCHITECTS	APPROVED BY	A. M. FELGATE
REVISION		DATE	





APPROVED BY \_\_\_\_\_

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SURVEYOR  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. M. FELGANT  
 W. E. COOK

LORAIN - CENTRAL BRIDGE  
 CLEVELAND, O.

CENTRAL AVE BRIDGE EXTENSION

SCALE: 1/4" = 1'-0"

FILE NO. 4366

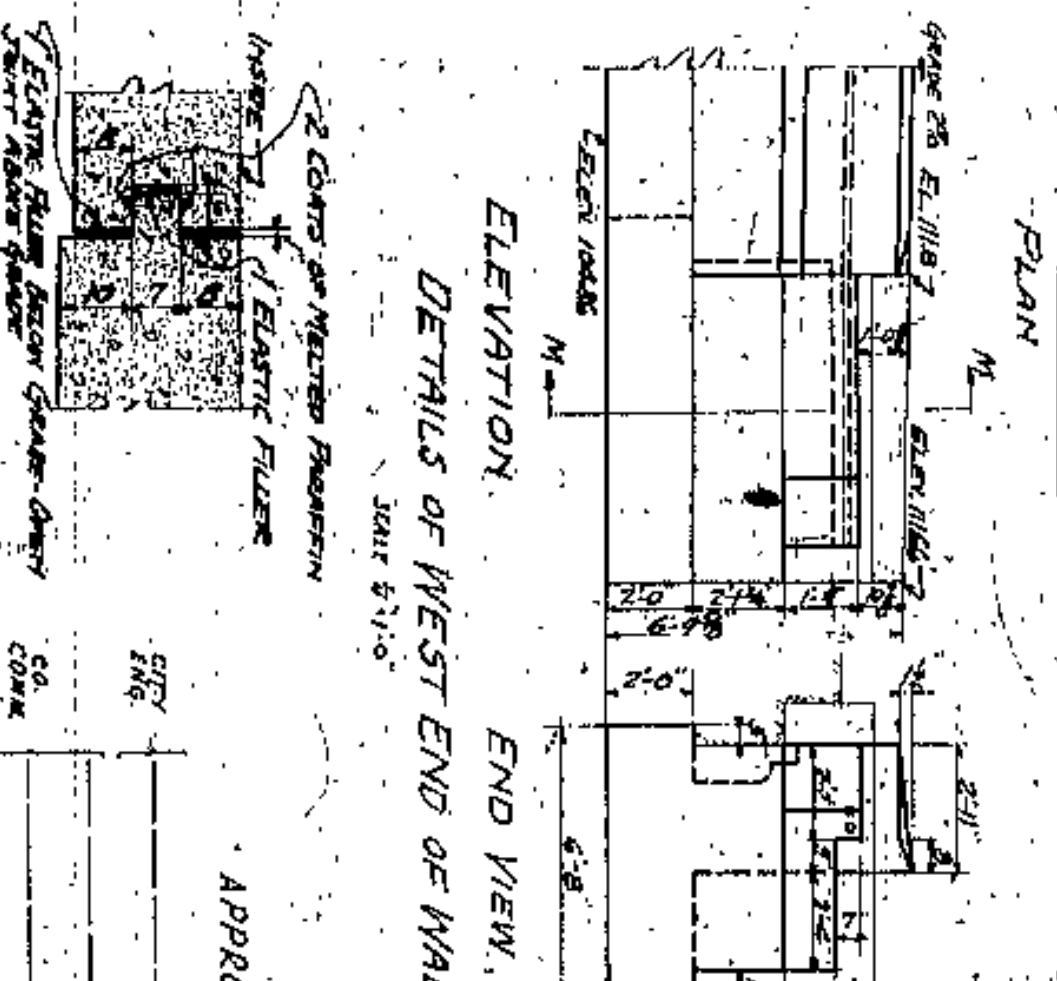
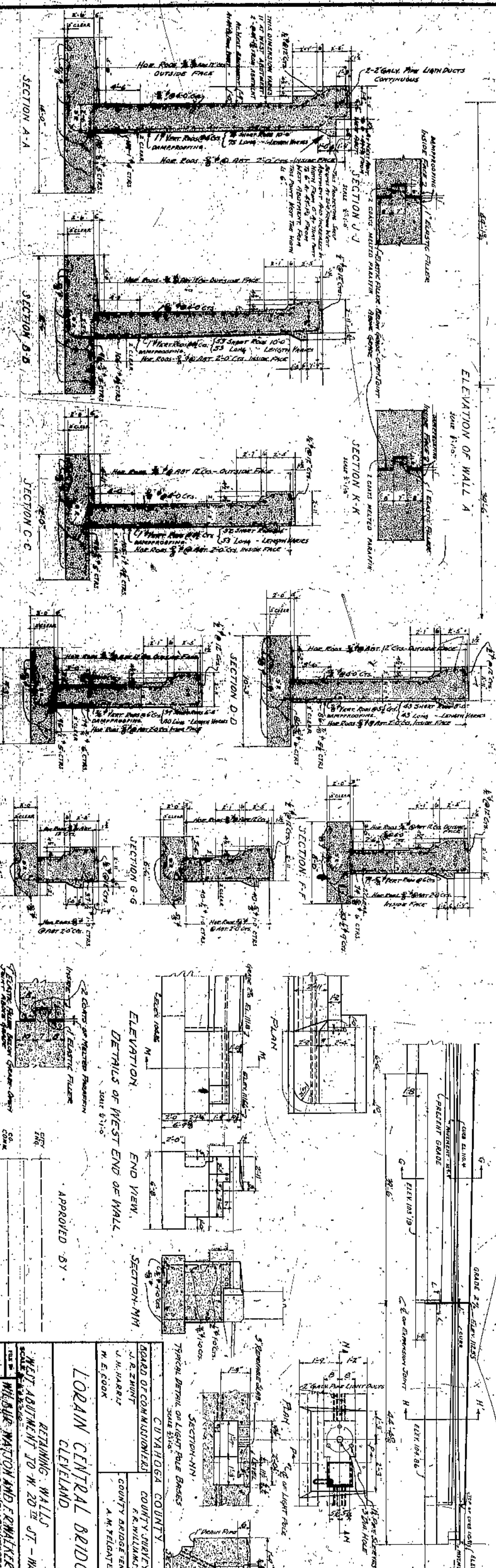
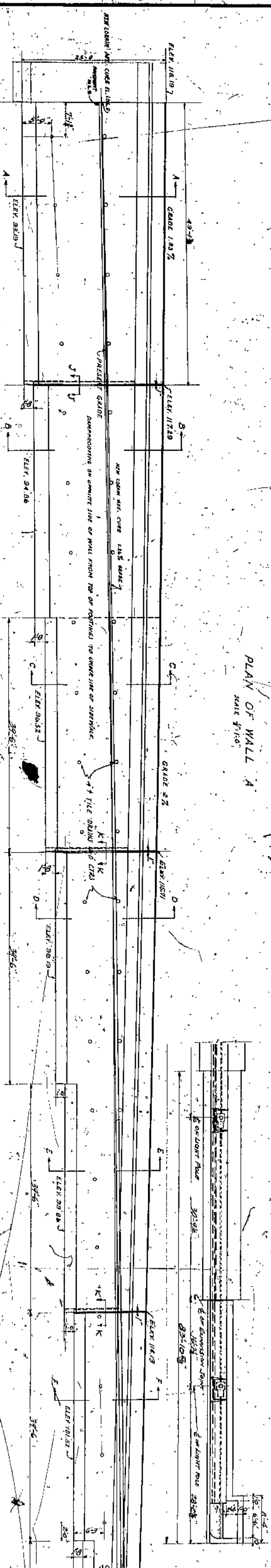
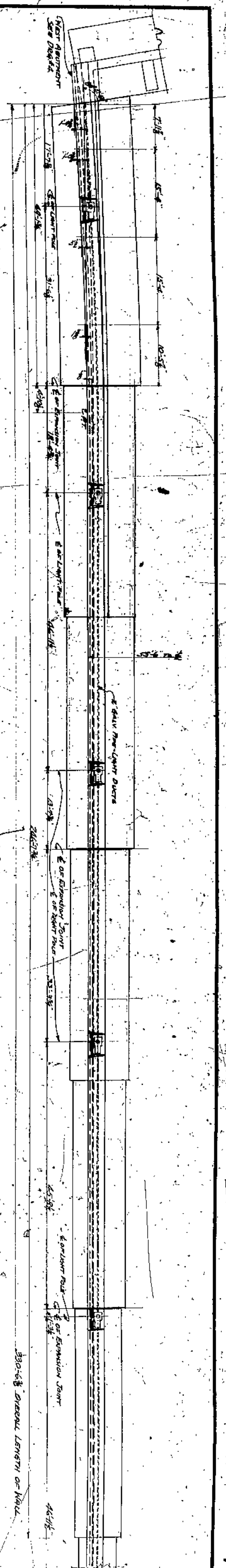
DESIGNED BY: WILBUR WATSON AND F. R. WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

NO.	DATE	REVISIONS
1	12-12-20	REVISED
2	1-10-21	REVISED
3	1-10-21	REVISED
4	1-10-21	REVISED
5	1-10-21	REVISED
6	1-10-21	REVISED
7	1-10-21	REVISED
8	1-10-21	REVISED
9	1-10-21	REVISED
10	1-10-21	REVISED









APPROVED BY

WEST ABUTMENT TO W. 20<sup>TH</sup> ST - WALL A

WILLIAM NATION AND F. WALKER  
CONSULTING ENGINEERS ARCHITECTS  
CLEVELAND

LORAIN CENTRAL BRIDGE  
CLEVELAND

BOARD OF COMMISSIONERS  
COUNTY SUPERVISOR  
J. R. ZWINT  
F. R. WILLIAMS

CUYAHOGA COUNTY  
COUNTY BRIDGE ENGINEER  
A. M. RELANTE  
N. E. GOOD

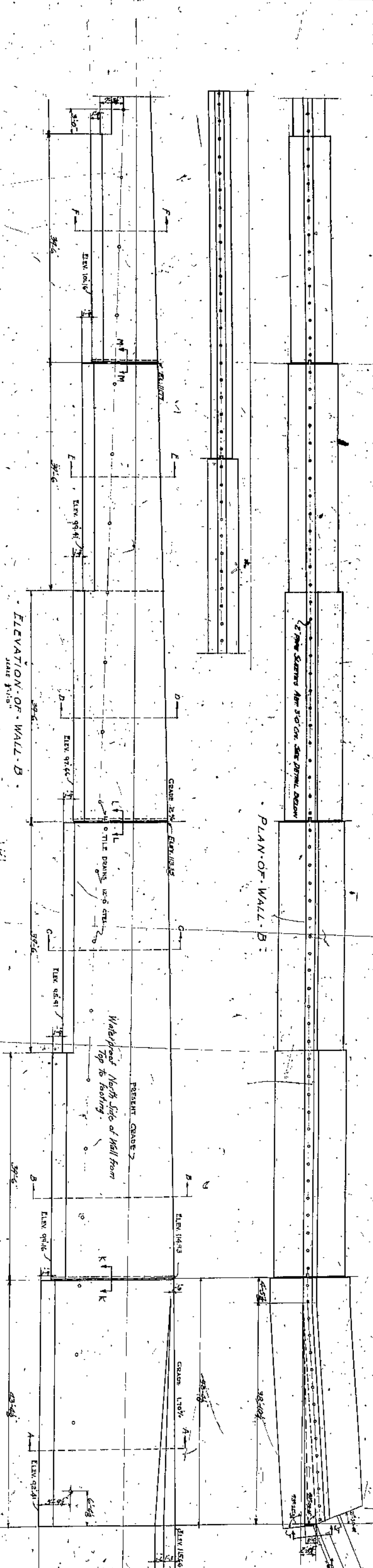
SECTION A-A  
SECTION B-B  
SECTION C-C  
SECTION D-D  
SECTION E-E  
SECTION F-F  
SECTION G-G  
SECTION H-H  
SECTION I-I  
SECTION J-J  
SECTION K-K  
SECTION L-L  
SECTION M-M  
SECTION N-N

NO.	DATE	REVISION	BY	CHECKED
1	10-1-24	ISSUED FOR PERMITS	W.N.	F.W.
2	10-1-24	REVISED PER COMMENTS	W.N.	F.W.
3	10-1-24	REVISED PER COMMENTS	W.N.	F.W.
4	10-1-24	REVISED PER COMMENTS	W.N.	F.W.
5	10-1-24	REVISED PER COMMENTS	W.N.	F.W.
6	10-1-24	REVISED PER COMMENTS	W.N.	F.W.
7	10-1-24	REVISED PER COMMENTS	W.N.	F.W.
8	10-1-24	REVISED PER COMMENTS	W.N.	F.W.
9	10-1-24	REVISED PER COMMENTS	W.N.	F.W.
10	10-1-24	REVISED PER COMMENTS	W.N.	F.W.

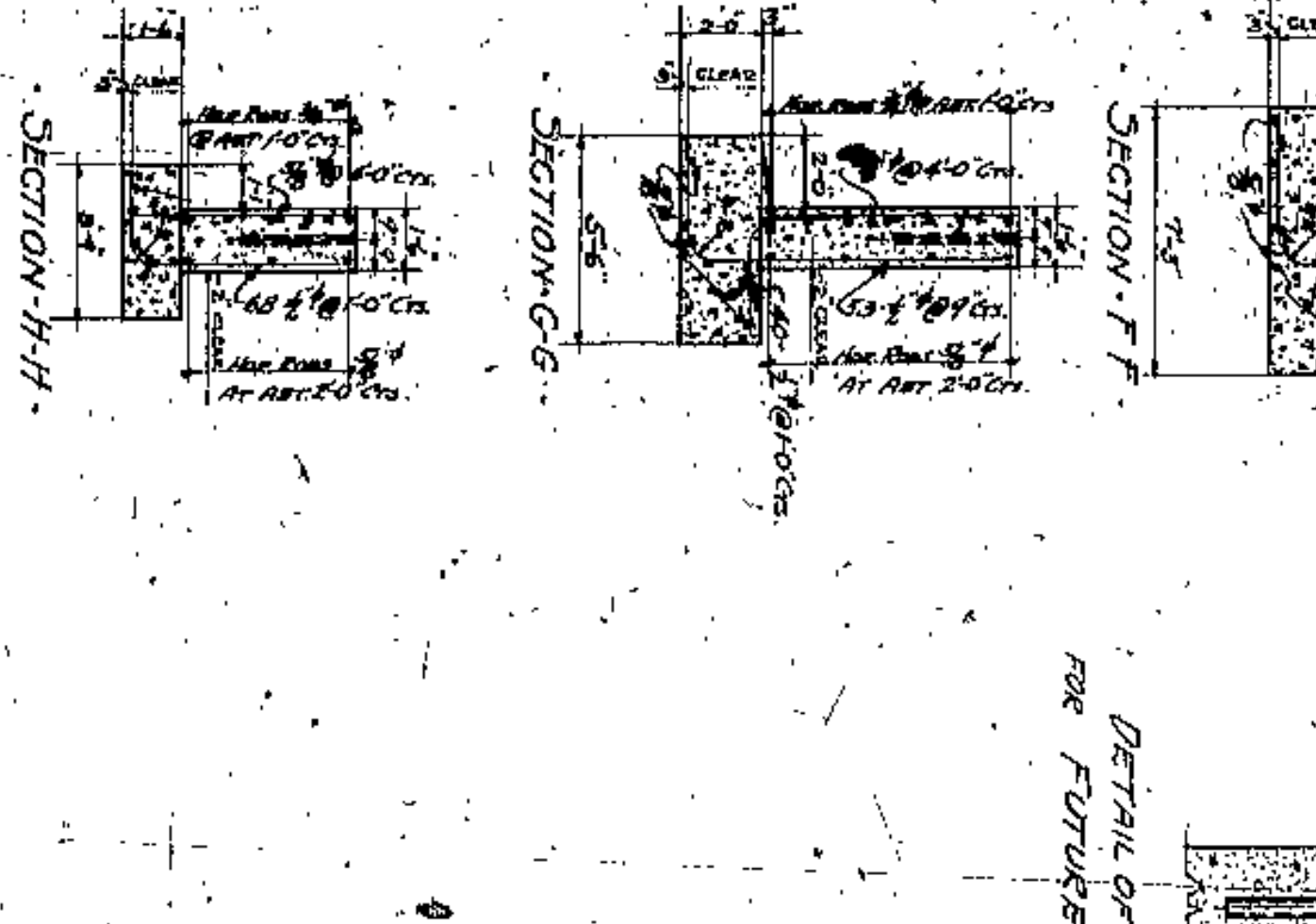
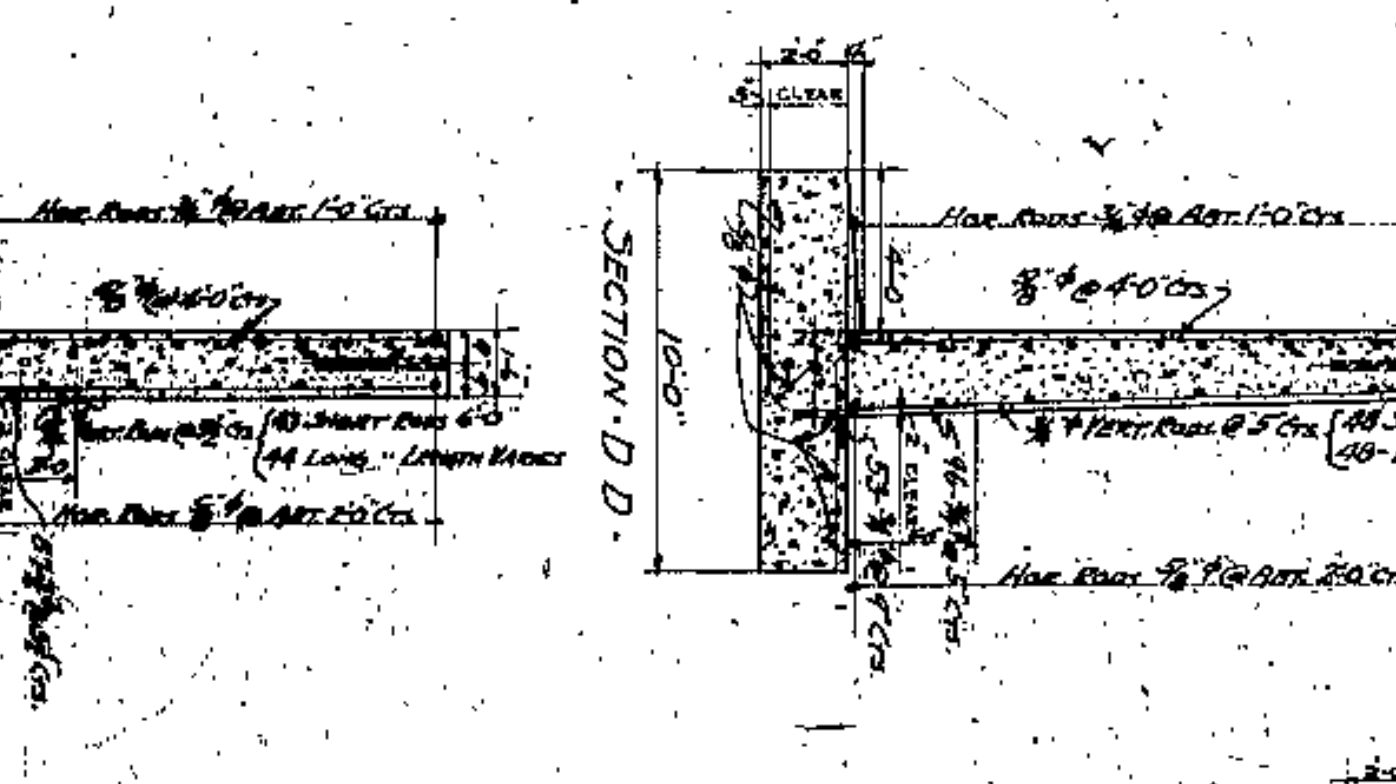
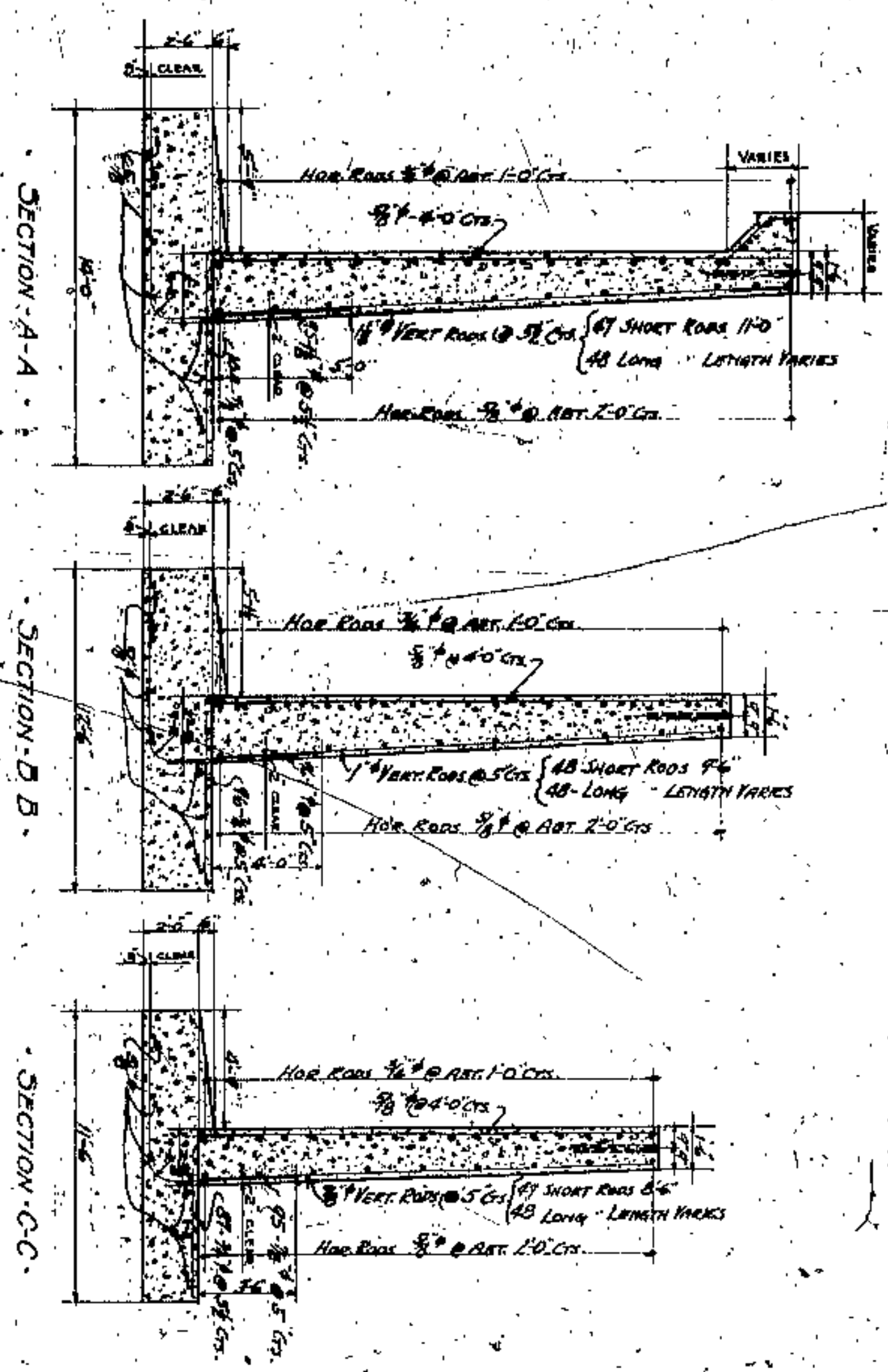
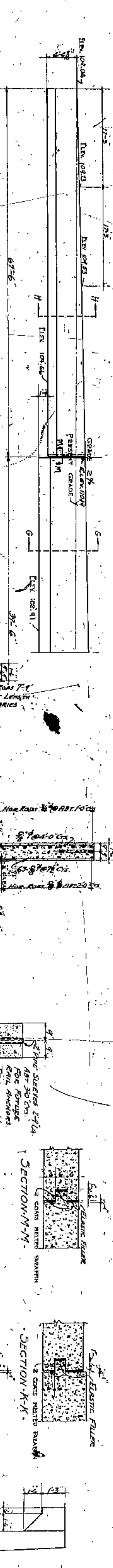


SECTION - DETAILED ELEVATION OF WALL

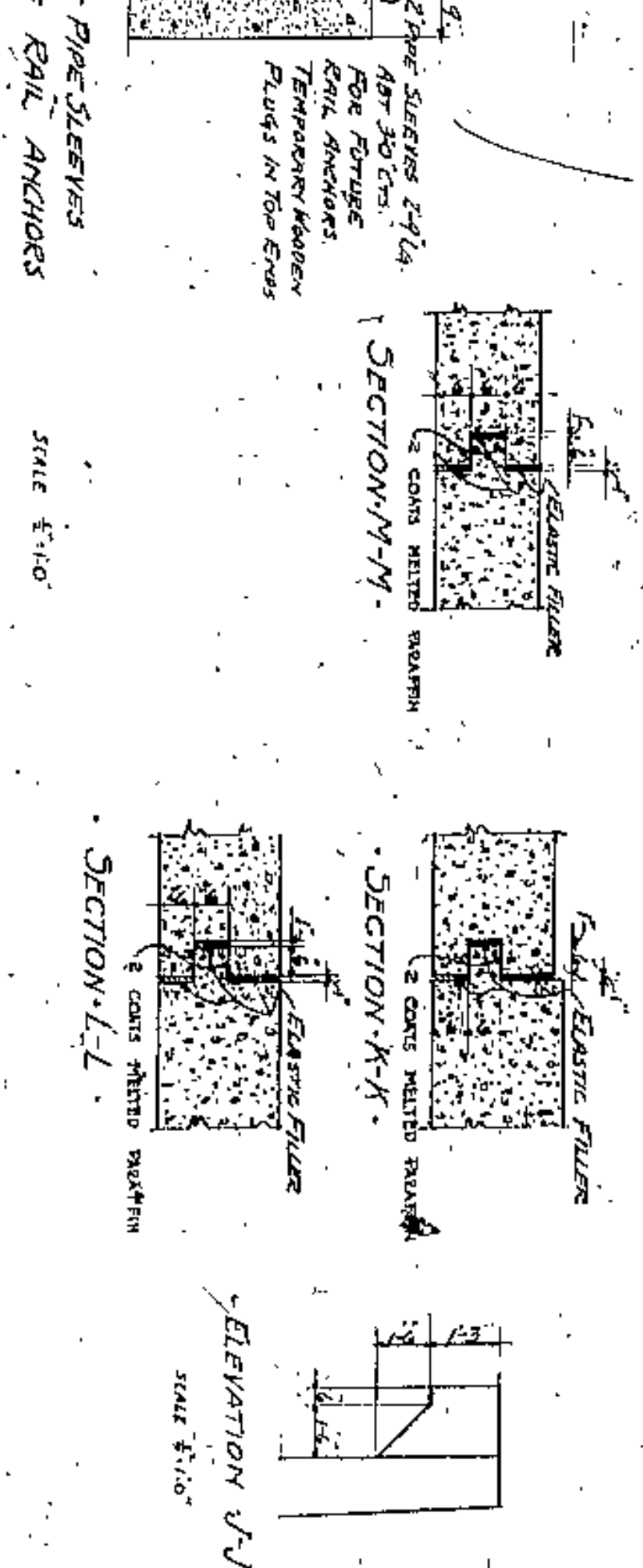
PLAN OF WALL - B



ELEVATION OF WALL - B



DETAIL OF PIPE SLEEVES FOR FUTURE RAIL ANCHORS



APPROVED BY

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BOARD OF COMMISSIONERS  
COUNTY ENGINEER  
J. H. HARRIS  
M. E. COOK  
COUNTY BRIDGE ENGINEER  
A. M. FELGANT

LORAIN CENTRAL BRIDGE  
CLEVELAND

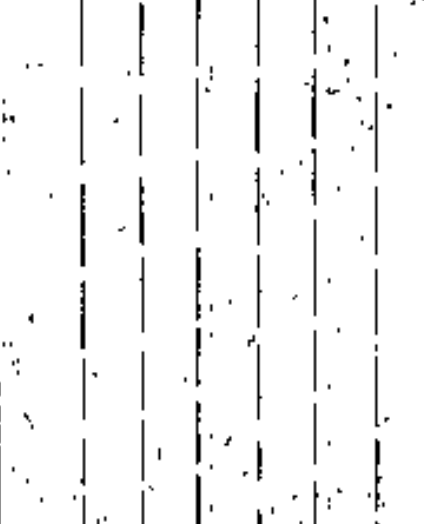
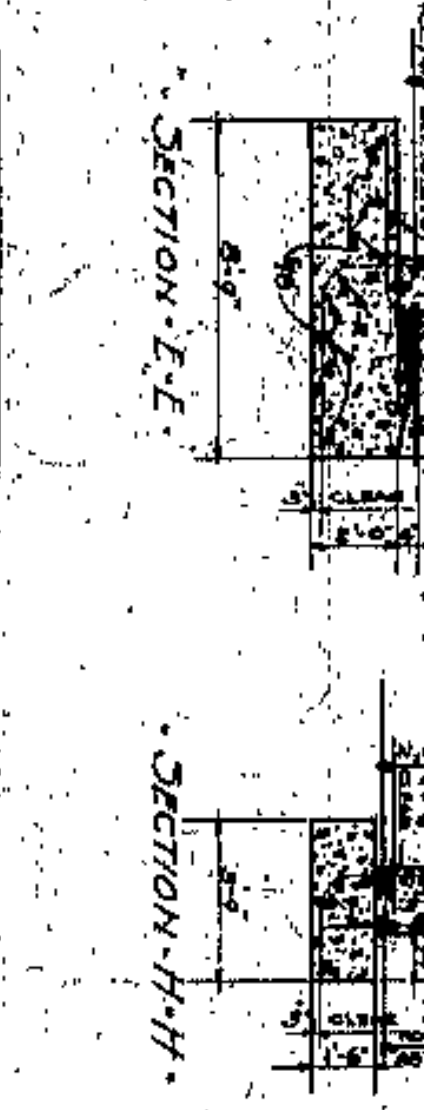
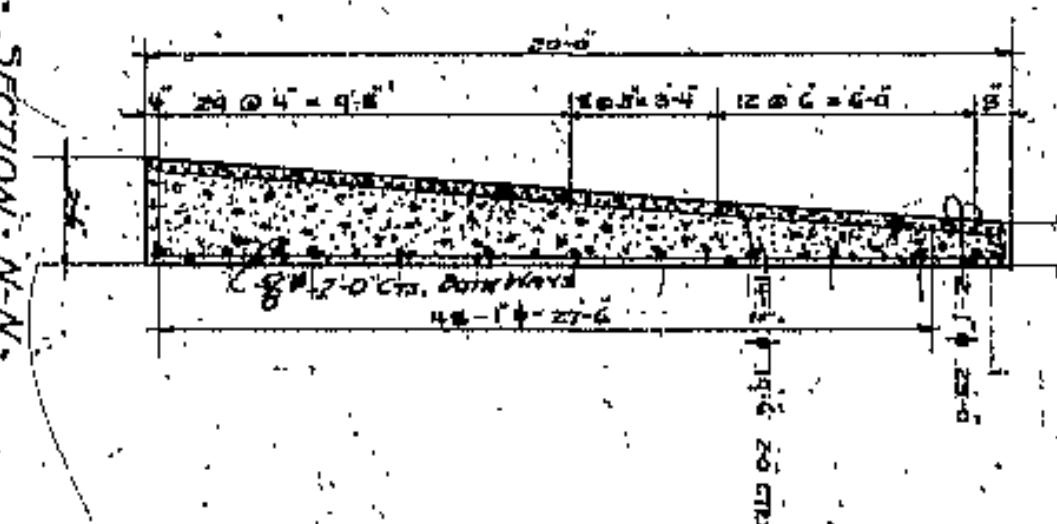
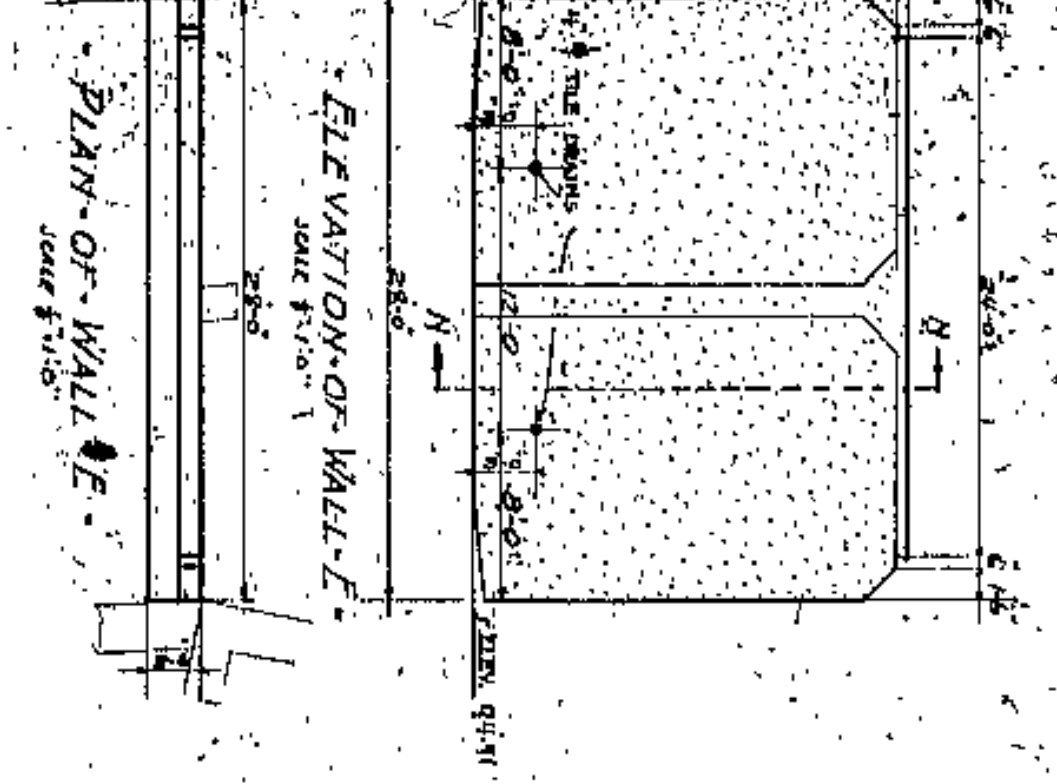
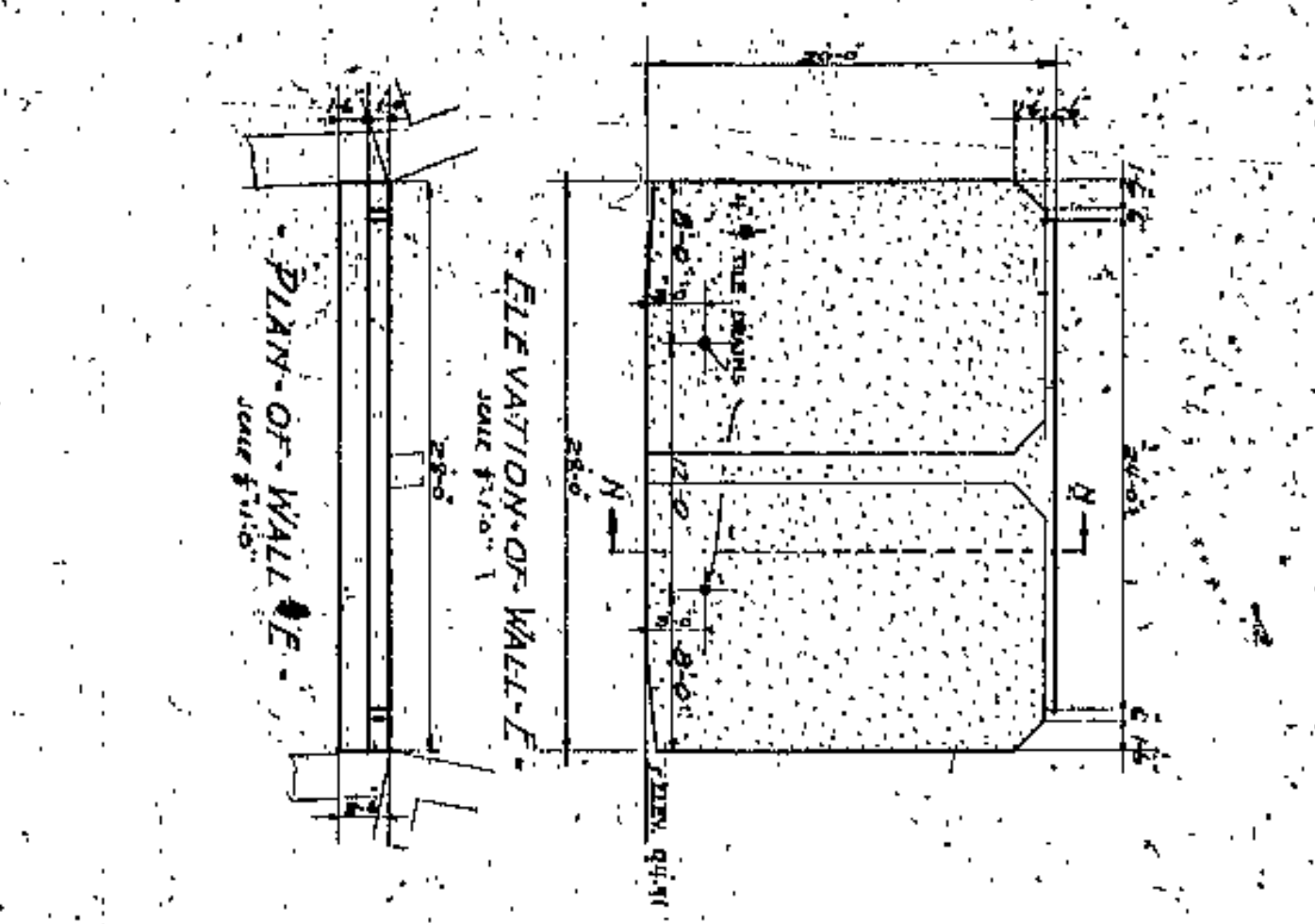
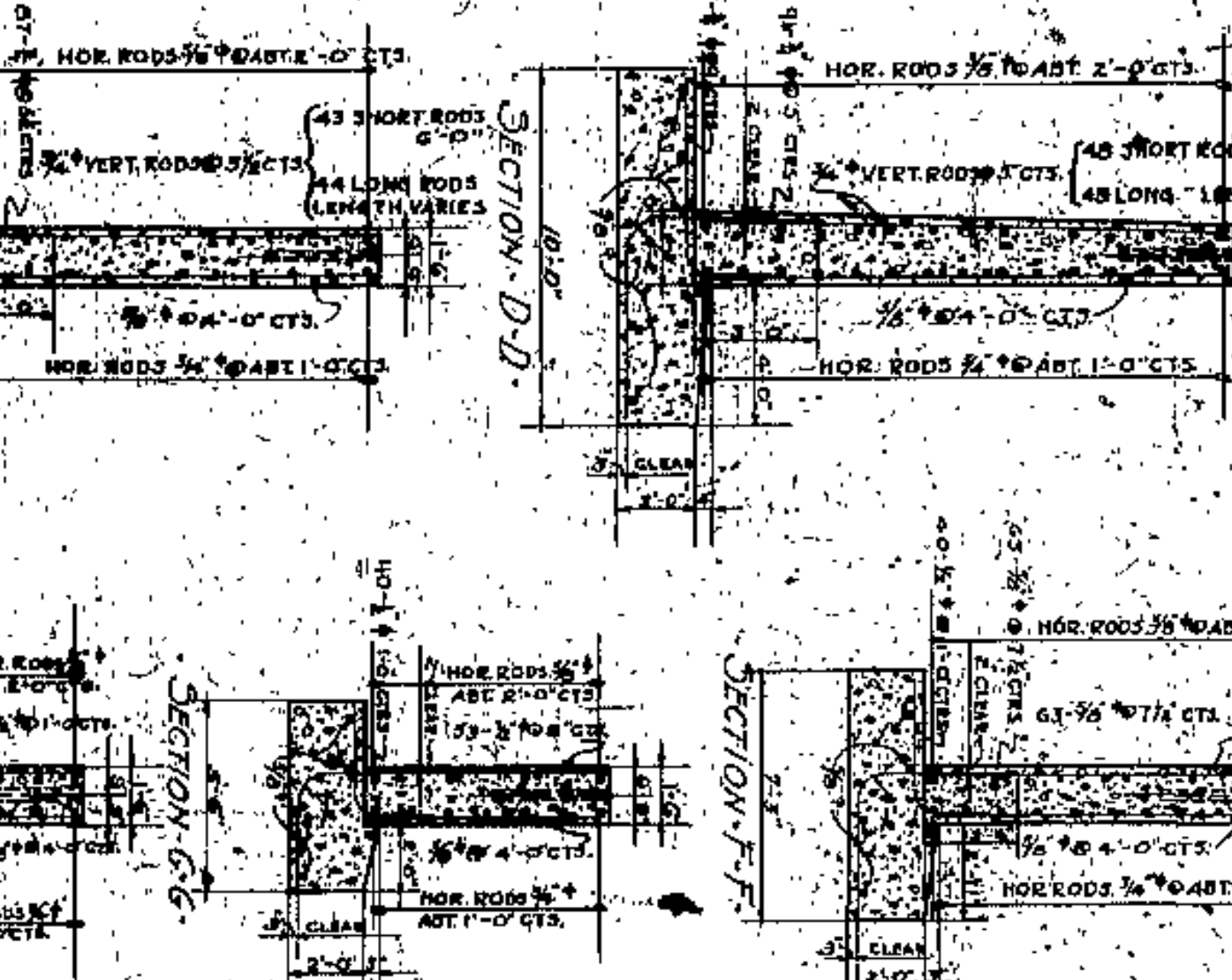
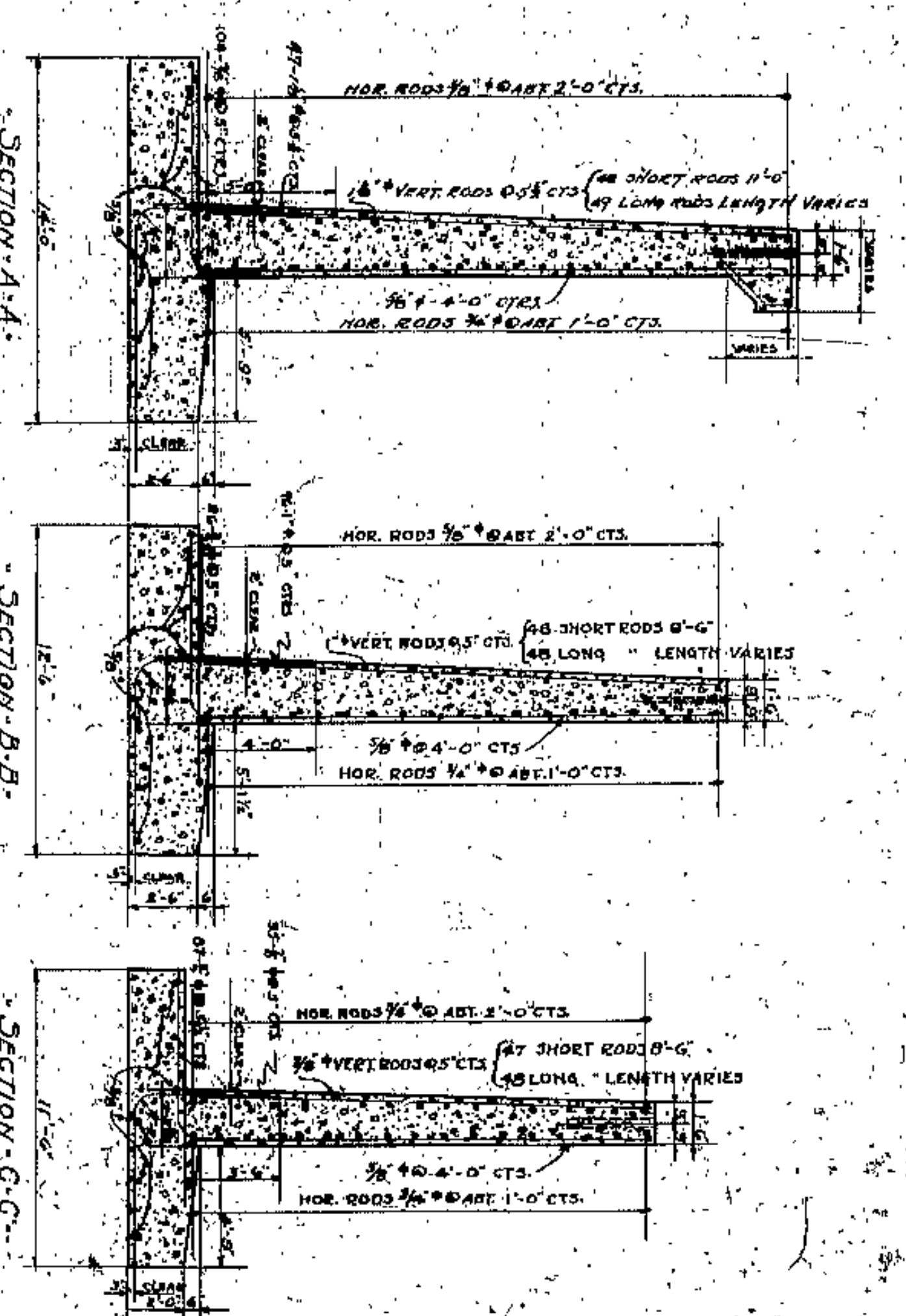
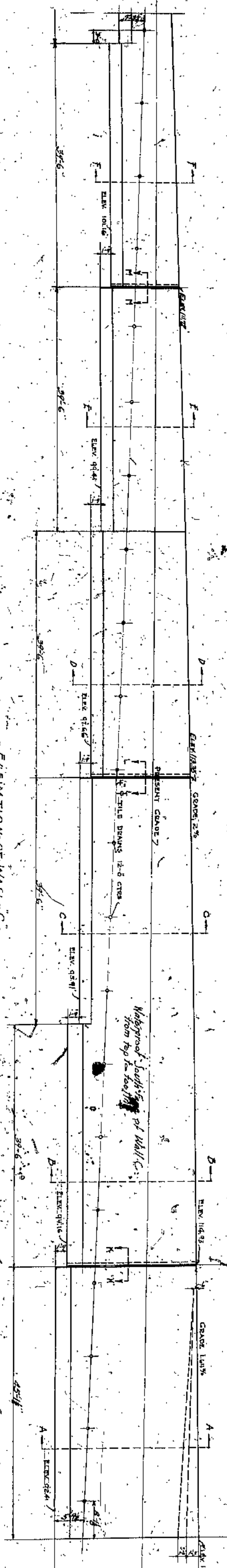
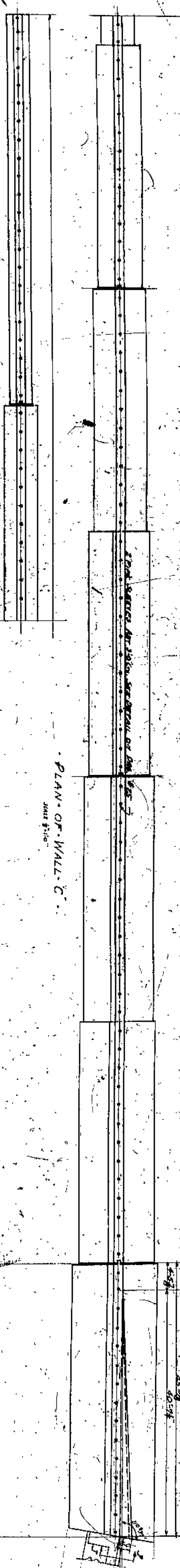
RETAINING WALLS  
WEST ADJUTMENT TO W 20<sup>TH</sup> ST - WALL B

WILBUR WATSON AND F. J. WALKER  
CONSULTING ENGINEERS AND ARCHITECTS  
CLEVELAND

FILE NO.	4366
DATE	APR 25 1925
BY	W. E. COOK
CHECKED BY	A. M. FELGANT
DATE	
APPROVED BY	
DATE	



Set of Overall Length of Wall



APPROVED BY

CITY ENG.	CIVIL	ARCHT.	MECH.	ELECT.
DATE	DATE	DATE	DATE	DATE

BOARD OF COMMISSIONERS  
 COUNTY SUPERVISOR  
 COUNTY ENGINEER  
 COUNTY ARCHT. ENGINEER  
 COUNTY MECH. ENGINEER  
 COUNTY ELECT. ENGINEER

CUYAHOGA COUNTY  
 COUNTY SUPERVISOR  
 COUNTY ENGINEER  
 COUNTY ARCHT. ENGINEER  
 COUNTY MECH. ENGINEER  
 COUNTY ELECT. ENGINEER

RETAINING WALLS  
 WEST ABUTMENT TO W. 20th ST. WALLS C & E  
 WILBUR MATSON AND F. B. WILSON  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

4366  
 26









SCALE 1/4" = 1'-0"

NOTES:  
 1. JOINTING CHARACTERS ARE DETAILED  
 ON ALL DRAWINGS IN CONNECTION WITH THIS  
 DRAWING AND SHALL BE CONSIDERED PART  
 THEREOF.

APPROVED BY:

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 J. R. ZIMMERT  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK  
 COUNTY ENGINEER

LORAIN CENTRAL BRIDGE  
 CLEVELAND  
 DECK PLAN  
 EAST ABUTMENT TO LINE OF SPAN NO. 7  
 CENTER LINE OF SPAN NO. 7

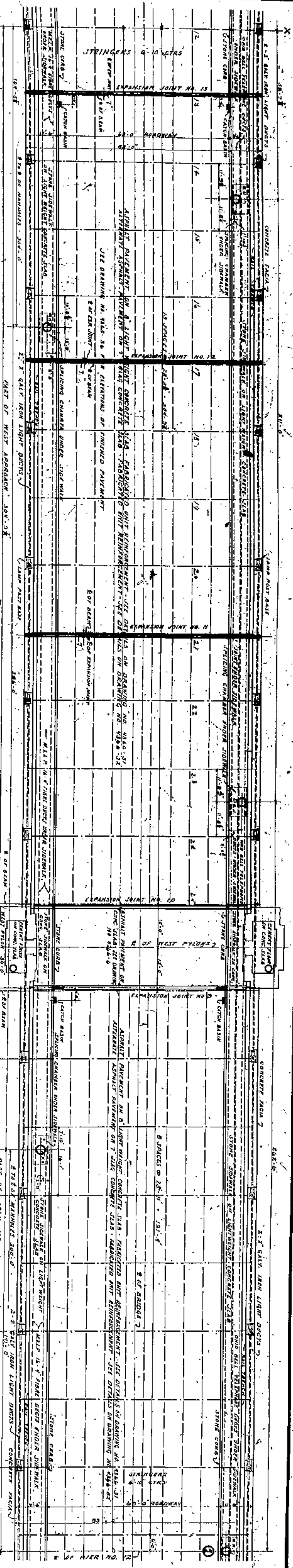
WILBUR WATSON AND F. R. WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND  
 4366  
 28

NO.	DATE	REVISION
1	11-17-30	REVISED
2	11-17-30	REVISED
3	11-17-30	REVISED
4	11-17-30	REVISED
5	11-17-30	REVISED
6	11-17-30	REVISED
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8	11-17-30	REVISED
9	11-17-30	REVISED
10	11-17-30	REVISED

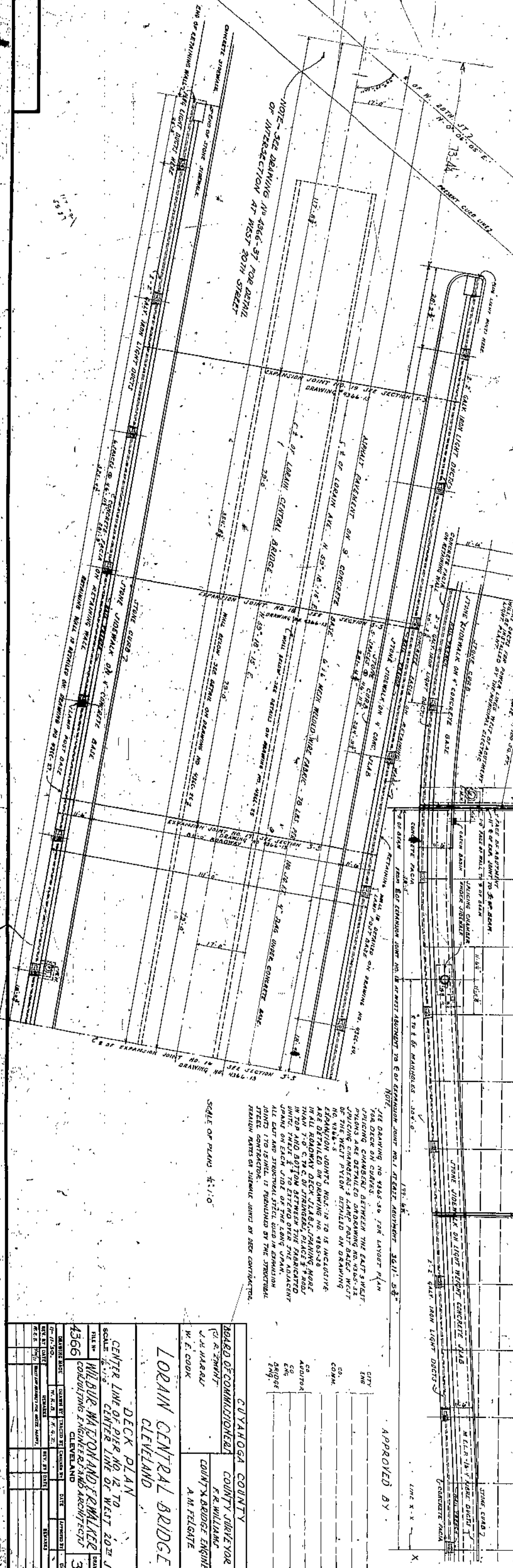
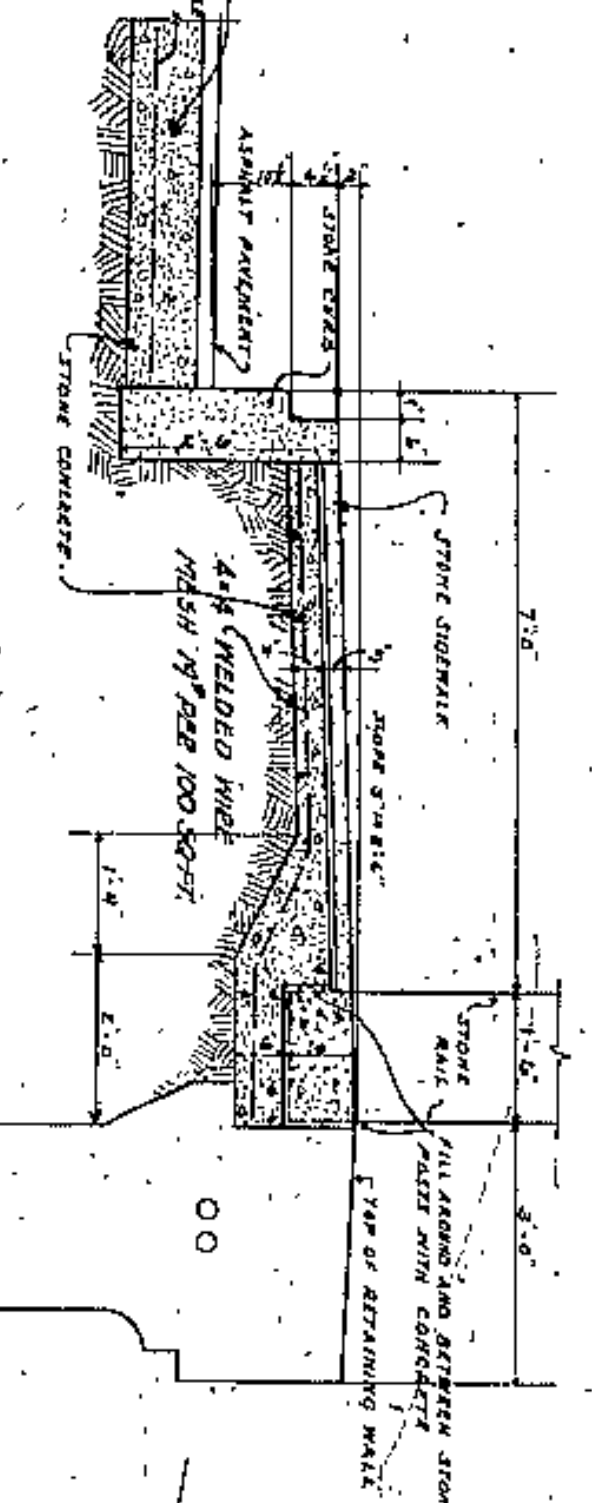








TYPICAL SECTION OF SIDEWALK-WEST ABUTMENT  
 JOISTERS BETWEEN EAST AND WEST ABUTMENTS TO BE AS SHOWN ON DRAWING NO. 4366-31 AND AS NOTED ON DECK PLANS  
 SCALE 3/4"=1'-0"



NOTE - SEE DRAWING NO. 4366-37 FOR DETAIL OF INTERSECTION AT WEST 20TH STREET

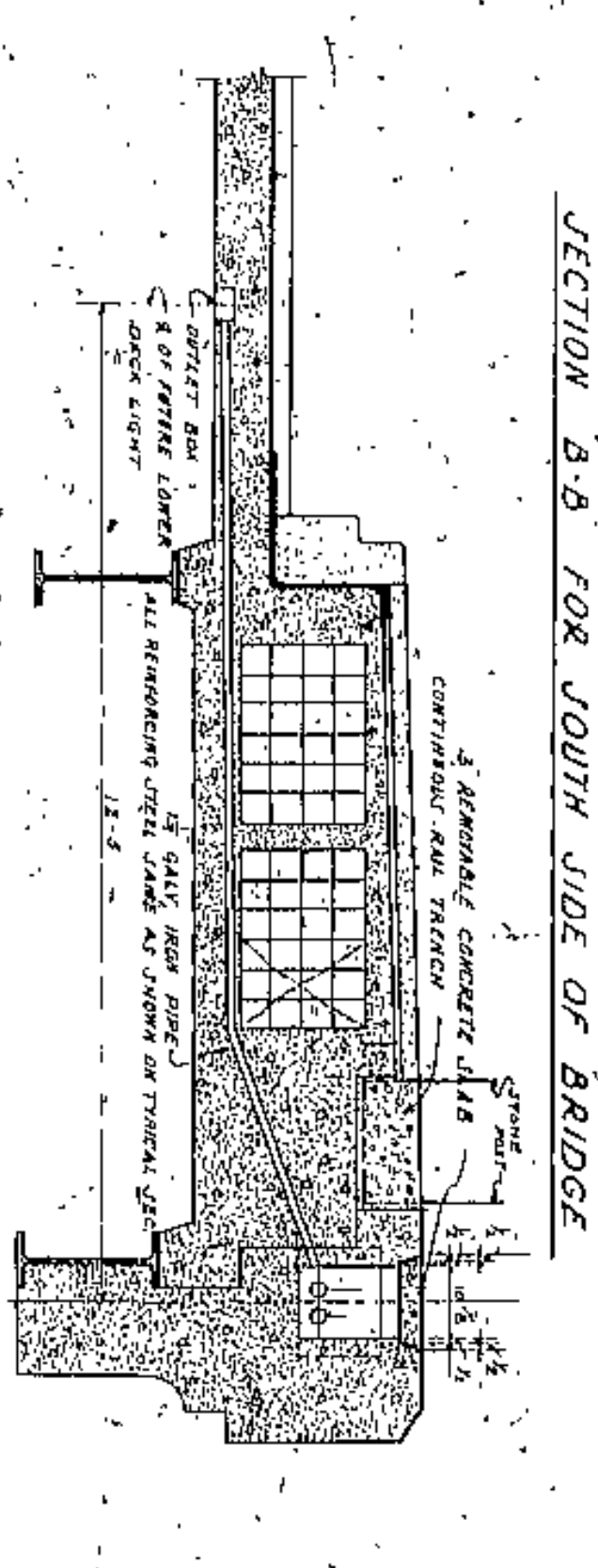
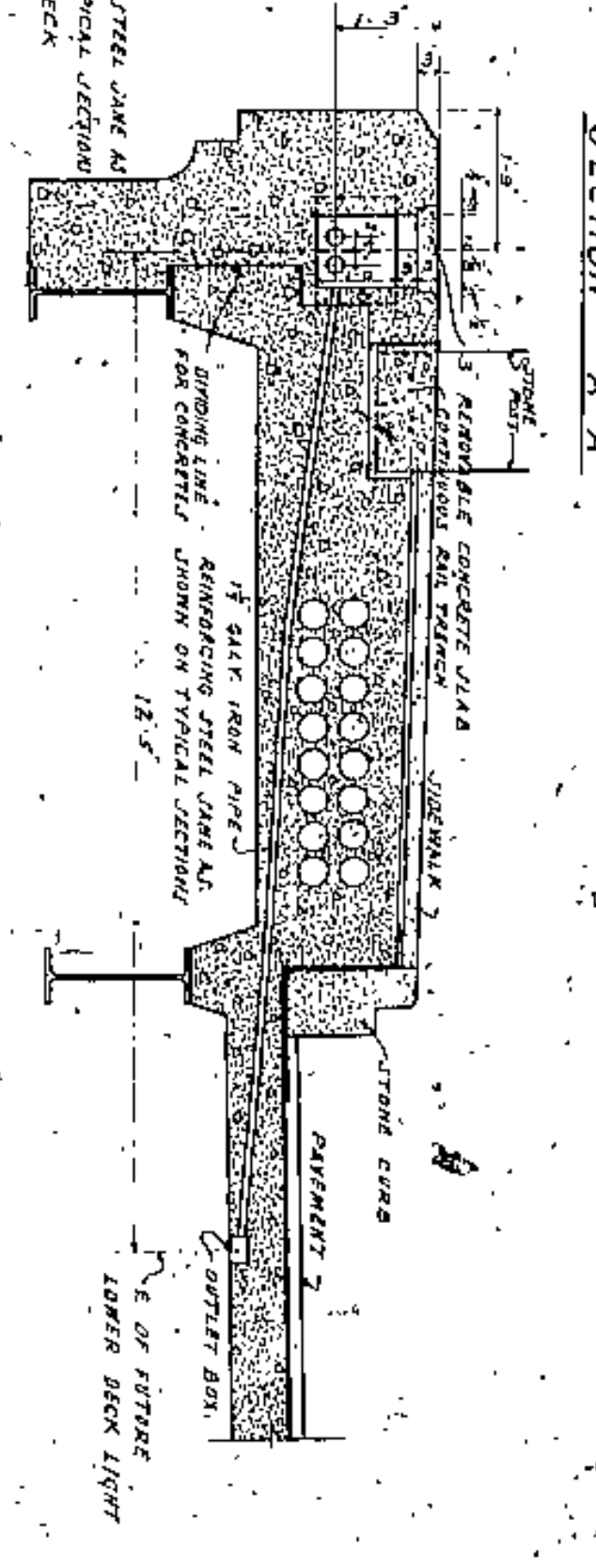
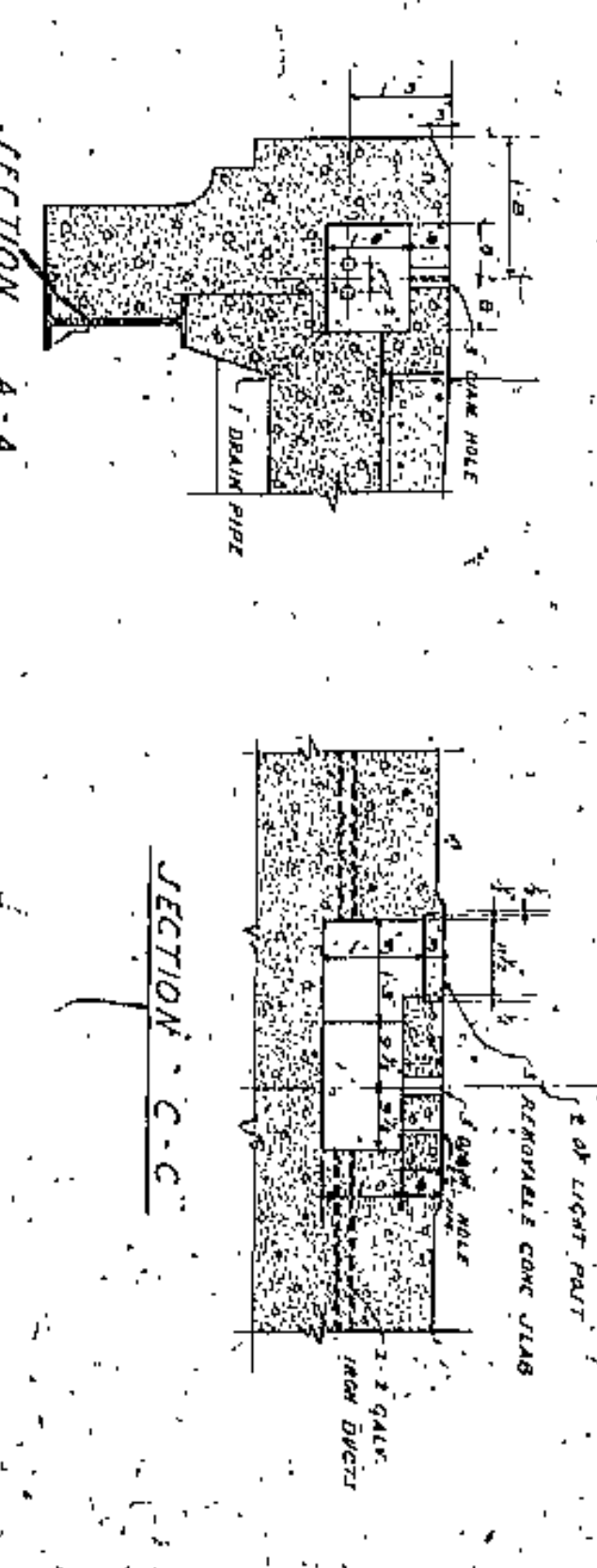
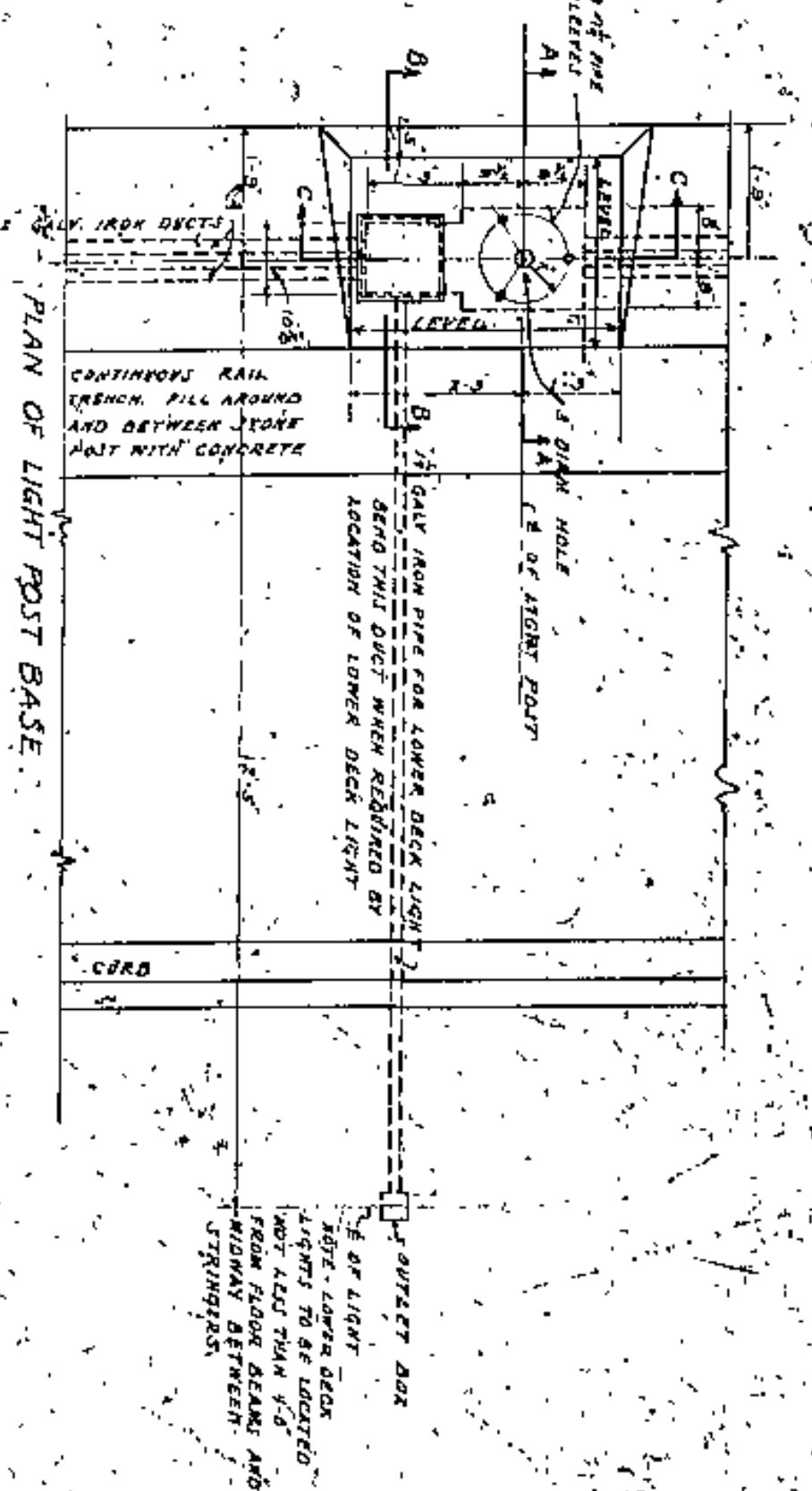
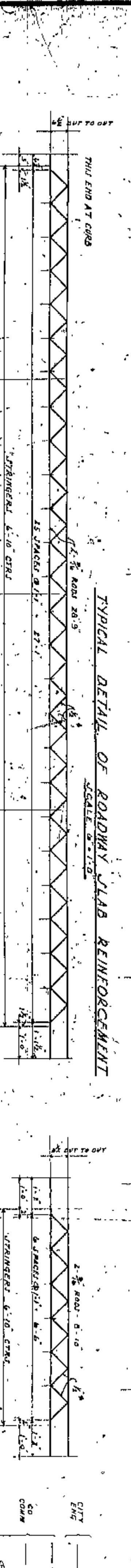
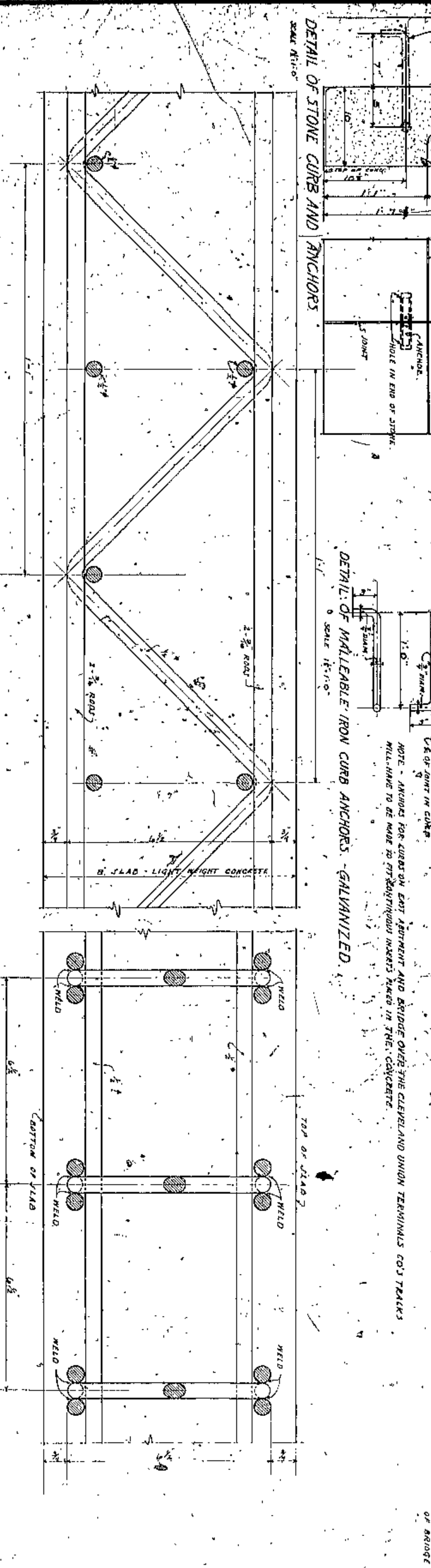
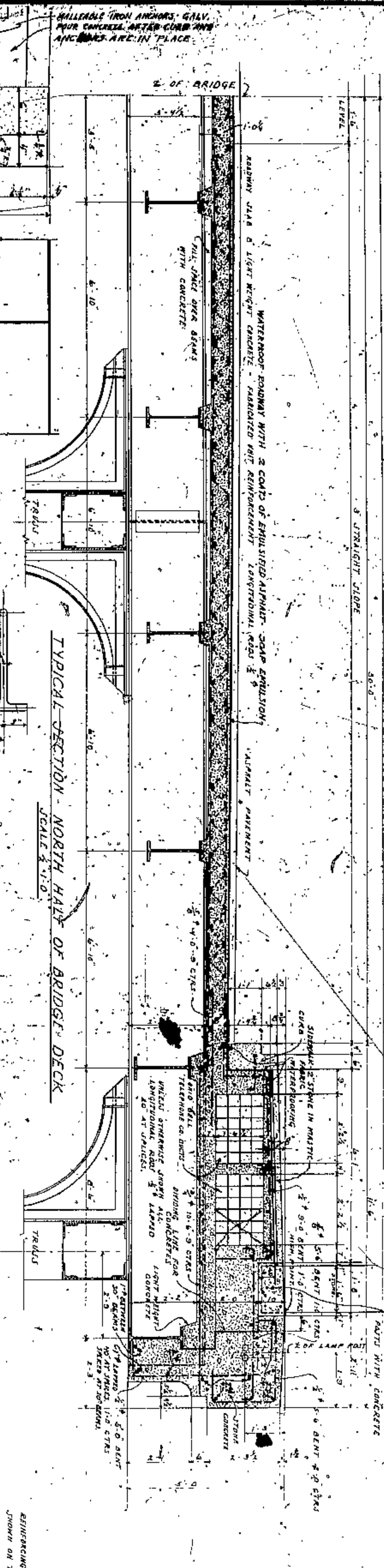
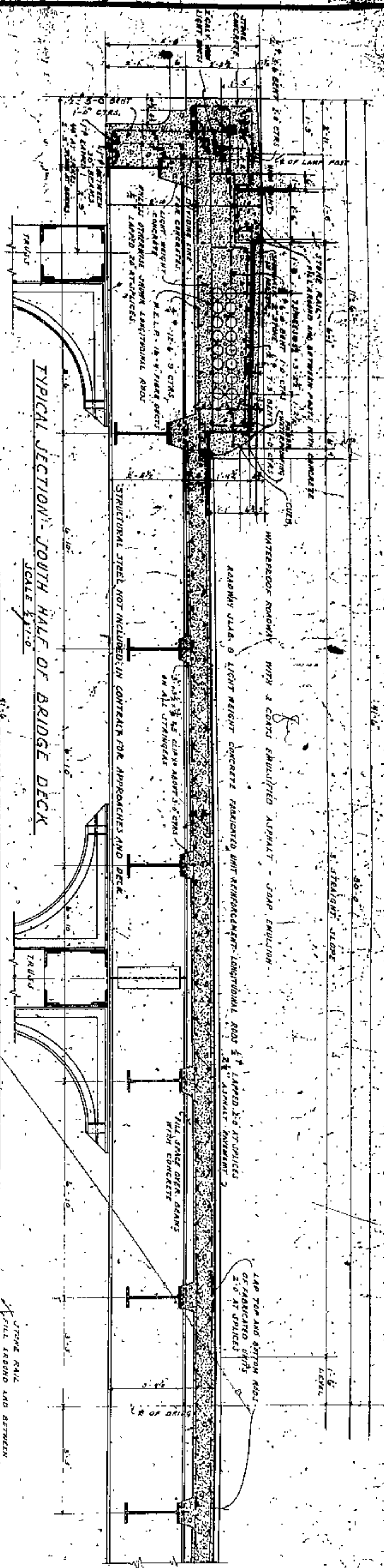
NOTE - SEE DRAWING NO. 4366-37 FOR DETAIL OF INTERSECTION AT WEST 20TH STREET

SCALE OF PLANS 1/4"=1'-0"

APPROVED BY

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	
COUNTY SUPERVISOR	
F. R. WILLIAMS	
COUNTY BRIDGE ENGINEER	
A. M. FELGATE	
W. E. COOK	
LORAIN CENTRAL BRIDGE	
CLEVELAND	
DECK PLAN	
CENTER LINE OF PIER NO. 12 TO CENTER LINE OF WEST 20TH ST	
SCALE 1/4"=1'-0"	
FILE NO.	4366
DESIGNED BY	WILBUR MAZON AND F. W. WALKER
CHECKED BY	CONSTRUCTION ENGINEERS ARCHITECTS
CITY	CLEVELAND
ENGINEER	30
DATE	
BY	
DATE	





APPROVED BY

**LORAIN CENTRAL BRIDGE**  
CLEVELAND

TYPICAL SECTION OF DECK CONSTRUCTION

FILE NO. 4366  
WILBUR WATSON AND FREDERICK COVINGTONS ENGINEERS AND ARCHITECTS  
CLEVELAND, OHIO

DATE: 1911

CUYAHOGA COUNTY BOARD OF COMMISSIONERS  
COUNTY SUPERVISOR F. R. WILLIAMS  
COUNTY BRIDGE ENGINEER A. M. FELGATE  
W. E. COOK

DETAILS OF BASES FOR LIGHT POSTS BETWEEN EAST ABUTMENT AND WEST PYLON.  
FOR LOCATION SEE DRAWING NO. 4365-2A, 2B, 2C, 2D.

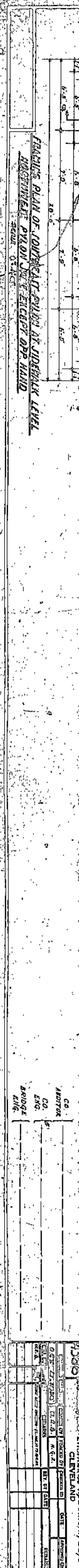
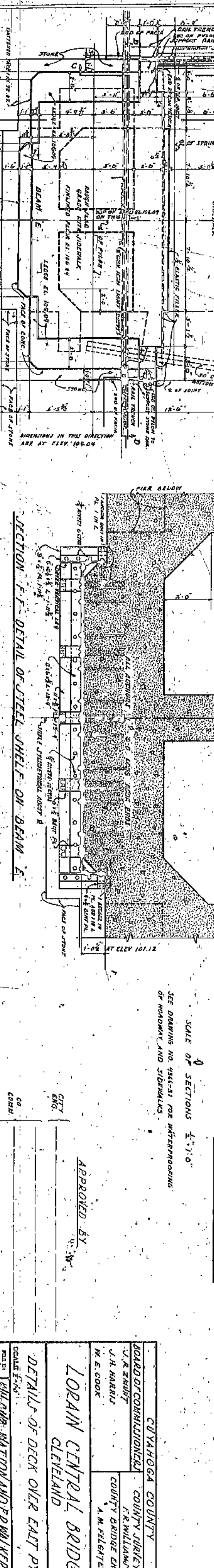
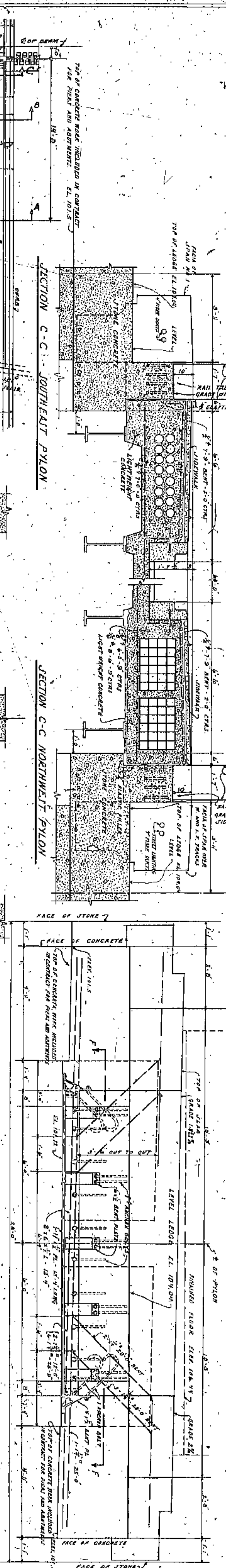
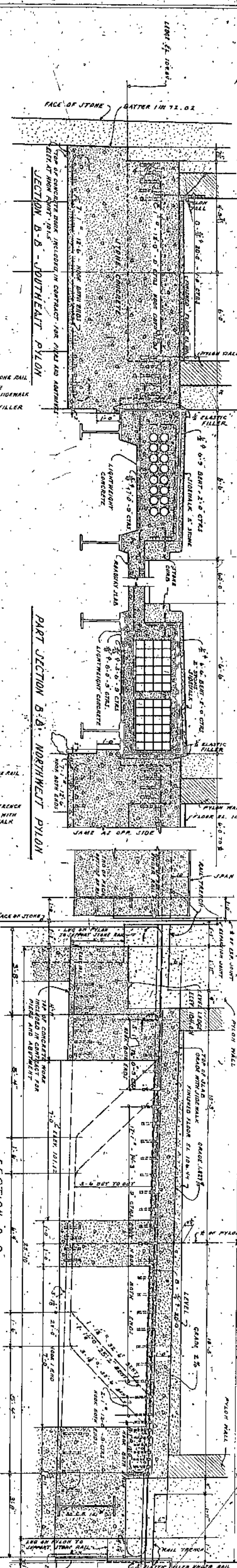
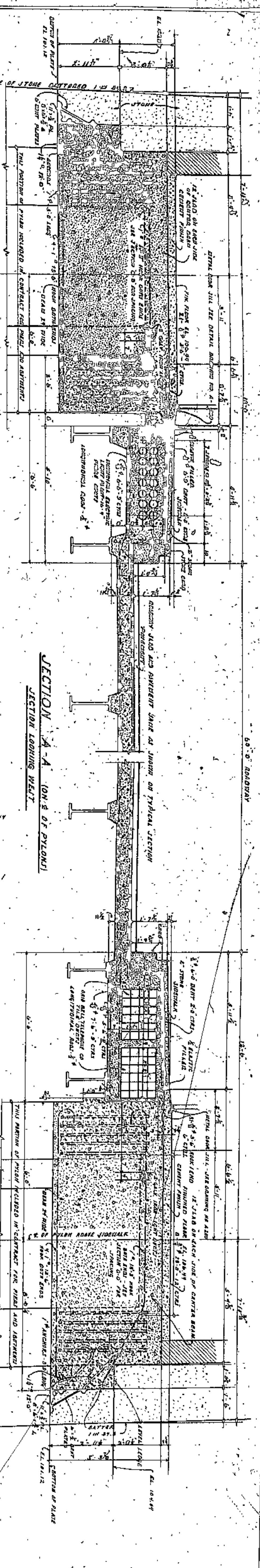












SCALE OF SECTIONS 1/4" = 1'-0"

SEE DRAWING NO. 4363-31 FOR WATERPROOFING OF ROADWAY AND SIDEWALKS.

APPROVED BY

CITY ENG. COOK

CO. CORNH.

CO. HARTSHORN

CO. ENG. BRIDGE

CUYAHOGA COUNTY BOARD OF COMMISSIONERS COUNTY SUPERVISOR

J. R. ZIMMERT

J. H. HARRIS

M. E. COOK

F. R. WILLIAMS

COUNTY BRIDGE ENGINEER

A. M. SELBATE

LORAIN CENTRAL BRIDGE CLEVELAND

DETAILS OF DECK OVER EAST PYLON

SCALE 1/4" = 1'-0"

WALTER WATSON AND F. WALKER 4366

ENGINEERS AND ARCHITECTS CLEVELAND

34

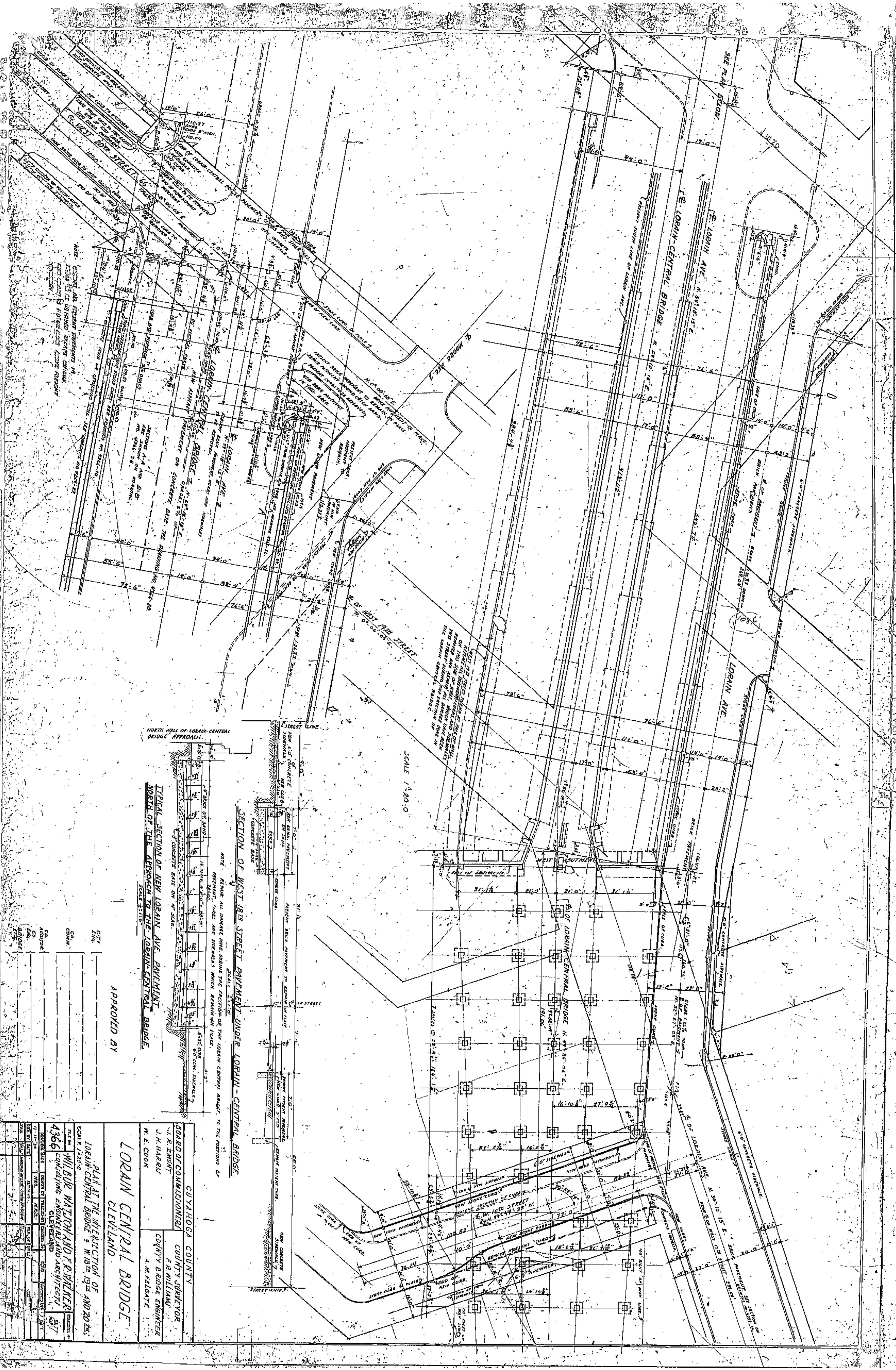




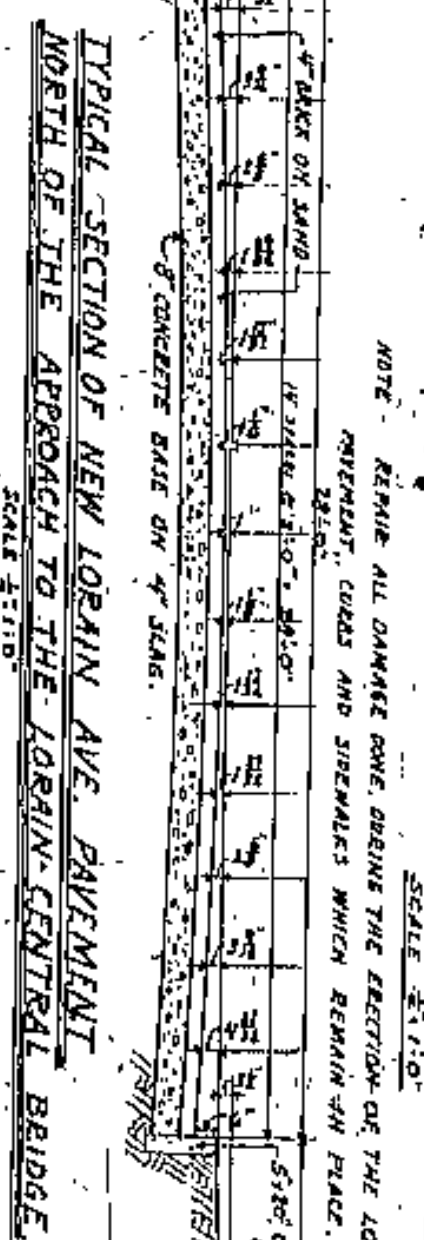








NORTH WILL OF LORAIN-CENTRAL BRIDGE APPROACH



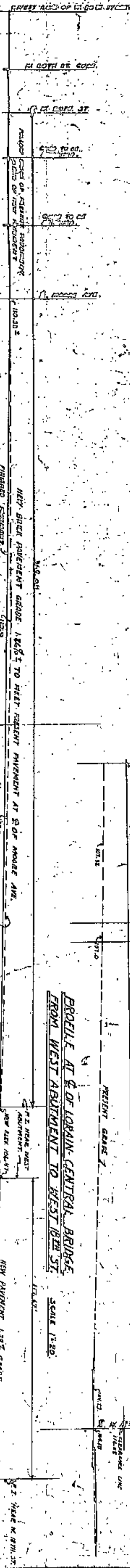
APPROVED BY

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	
J. R. ZIMMANT	COUNTY SUPERVISOR
J. H. HARRIS	F. R. WILLIAMS
W. E. COOK	COUNTY BRIDGE ENGINEER
A. R. PELLSATE	
LORAIN CENTRAL BRIDGE	
CLEVELAND	
PLAN AT THE INTERSECTION OF LORAIN-CENTRAL BRIDGE & W. 12TH AND 20TH STS.	
SCALE 1" = 20'-0"	
FILE NO. 4366	WILBUR WATSON AND F. R. WILKER CONSULTING ENGINEERS AND ARCHITECTS CLEVELAND
DATE 11-17-19	DESIGNED BY W. E. COOK
DATE 11-17-19	DRAWN BY W. E. COOK
DATE 11-17-19	CHECKED BY W. E. COOK
DATE 11-17-19	APPROVED BY W. E. COOK



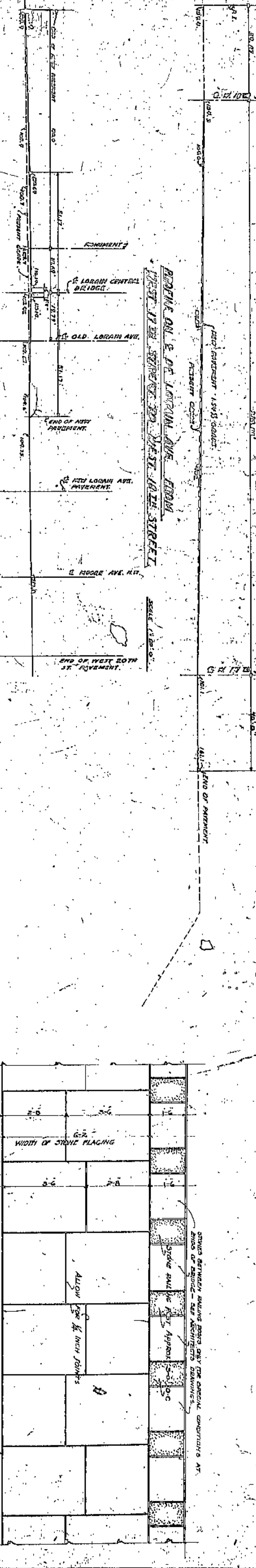
**PROFILE ON E. OF LORAIN CENTRAL BRIDGE FROM WEST 20TH STREET TO WEST ABUTMENT.**

SCALE 1" = 20' 0"



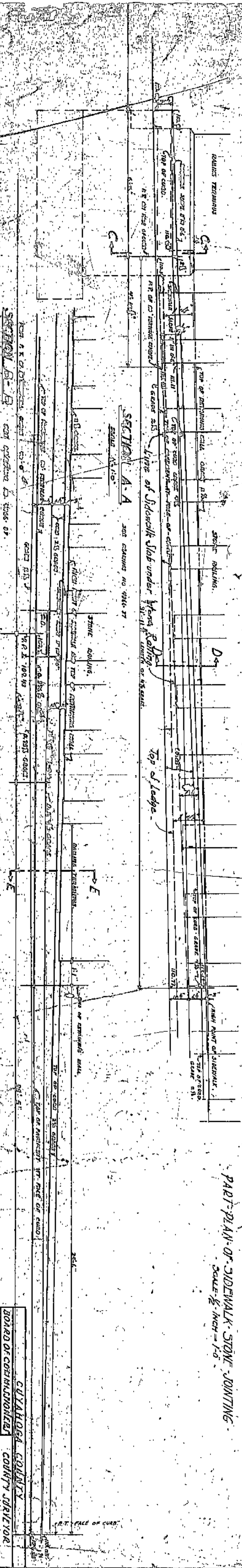
**PROFILE ON S. OF NEW LORAIN AVE. PAVEMENT FROM WEST 20TH STREET TO POINT OF INTERSECTION NEAR WEST 18TH STREET.**

SCALE 1" = 20' 0"



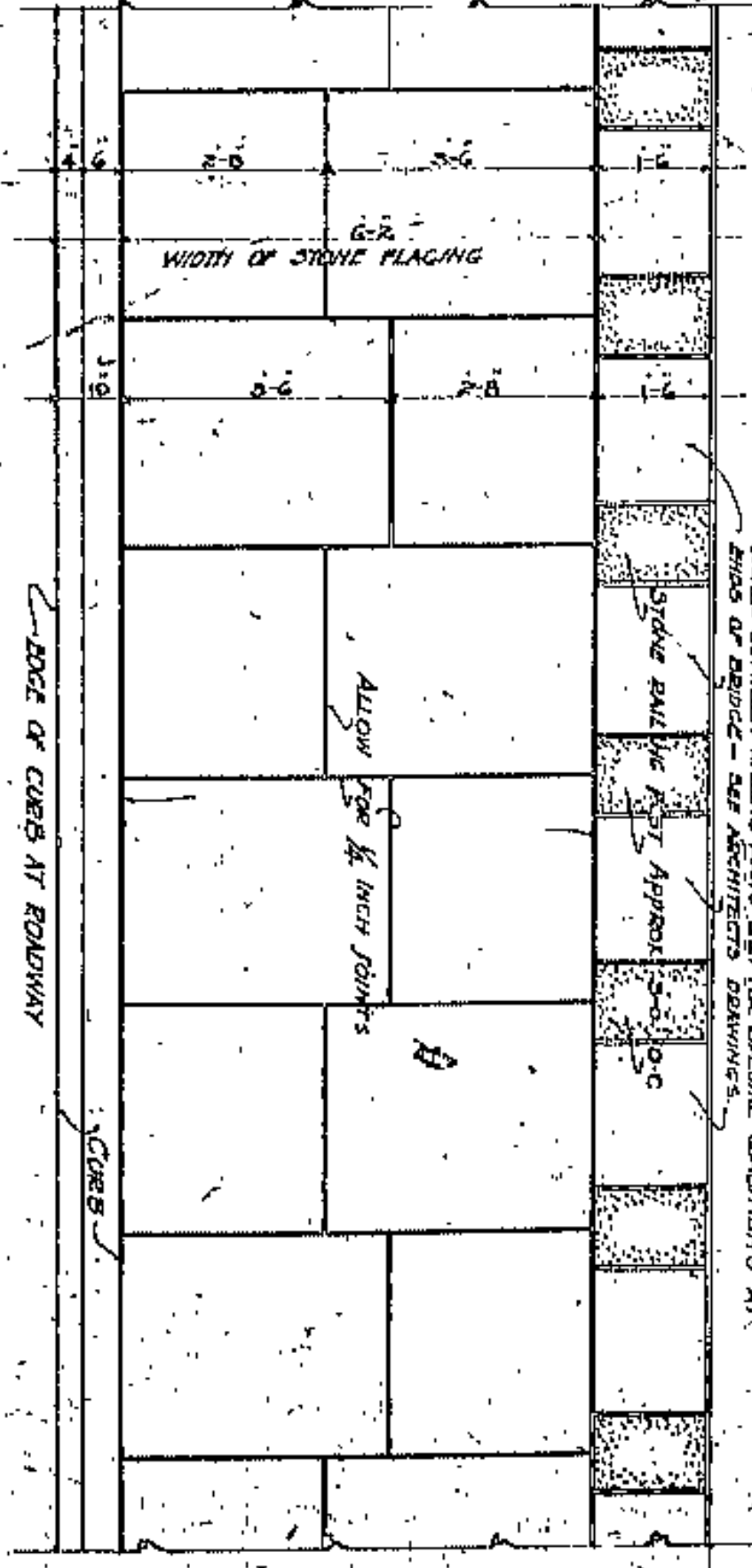
**PROFILE ON S. OF WEST 20TH STREET**

SCALE 1" = 20' 0"



**PART-PLAN OF SIDEWALK-STONE JOINTING**

SCALE 1/2" = 1'-0"



APPROVED BY

**LORAIN CENTRAL BRIDGE**  
CLEVELAND

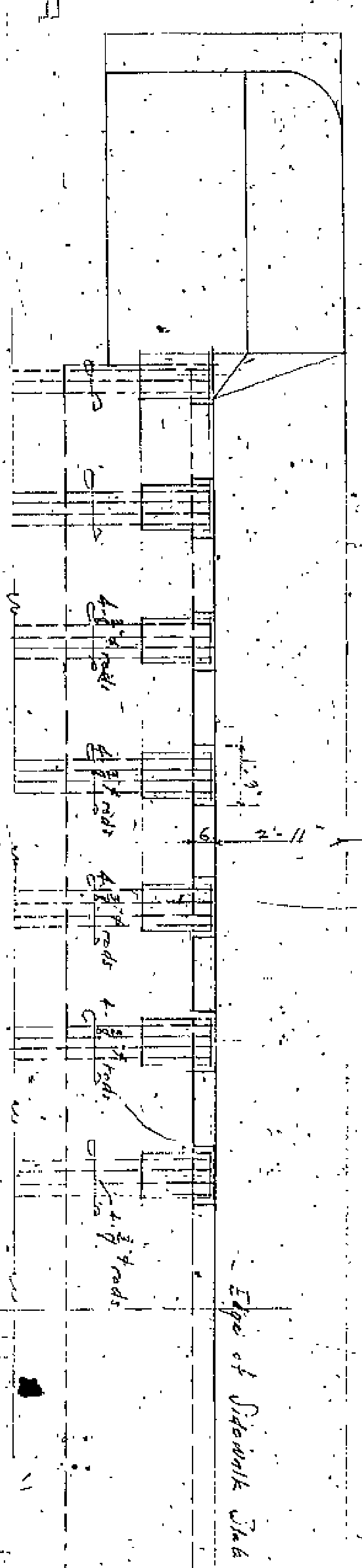
CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY JURISDICTION  
J. R. ZIMMERT  
F. REYLLIARD  
COUNTY BRIDGE ENGINEER  
W. E. COOK  
A. M. FLEIGHT

PROFILES - LORAIN AVE. WEST 18TH & 19TH STREETS  
SCALE 1" = 20' 0"

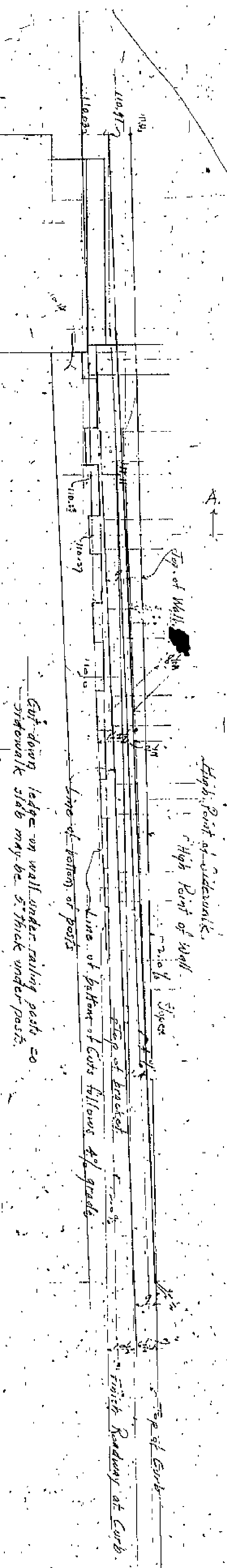
4366  
DESIGNED BY J. R. ZIMMERT  
CHECKED BY F. REYLLIARD  
DATE 11-11-10

NO.	DATE	REVISION
1	11-11-10	DESIGNED BY J. R. ZIMMERT
2	11-11-10	CHECKED BY F. REYLLIARD
3	11-11-10	DATE 11-11-10
4	11-11-10	DATE 11-11-10
5	11-11-10	DATE 11-11-10
6	11-11-10	DATE 11-11-10
7	11-11-10	DATE 11-11-10
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9	11-11-10	DATE 11-11-10
10	11-11-10	DATE 11-11-10

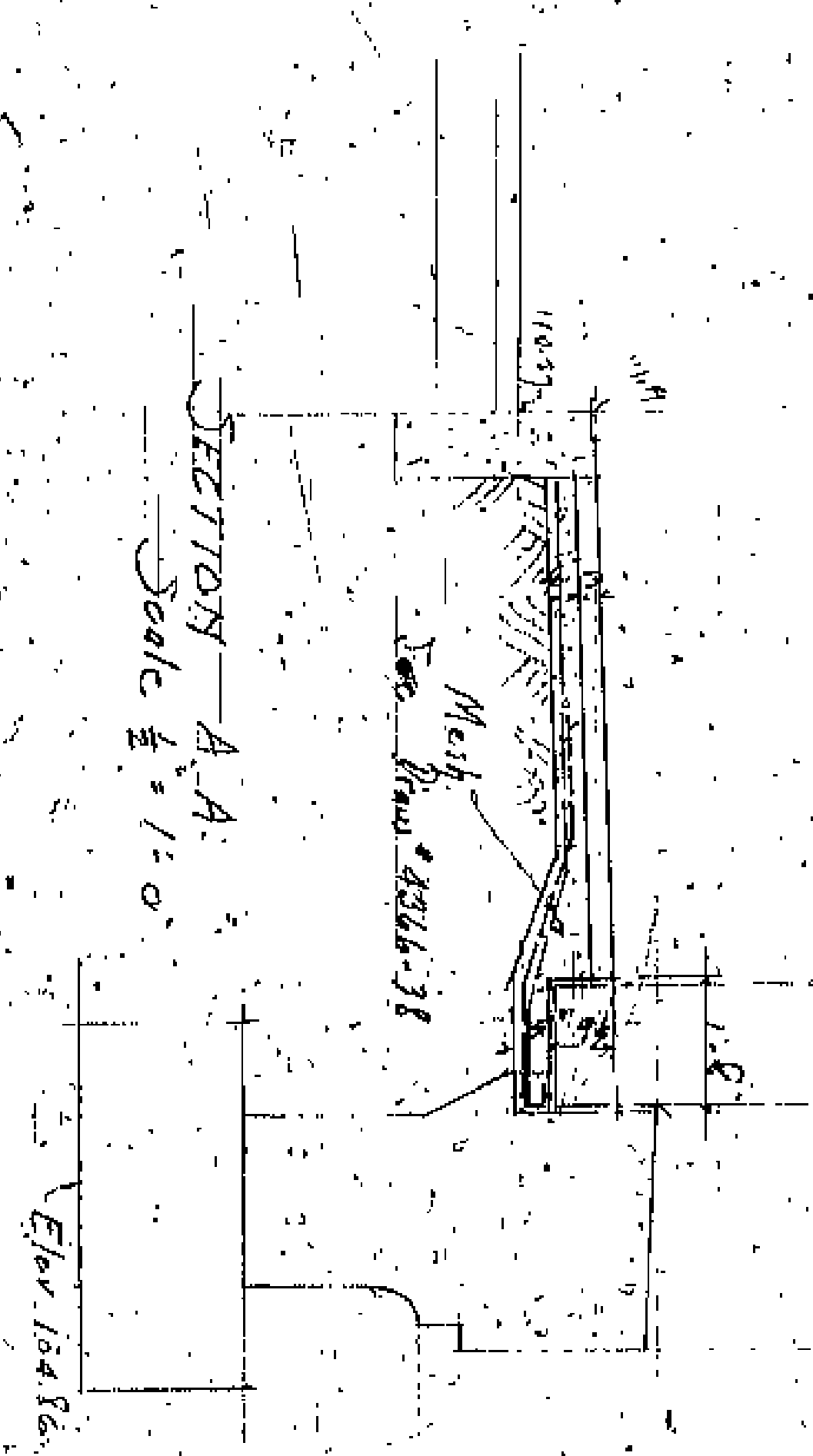




PLAN showing cut in ledge and additional reinforcing rods in slab.



ELEVATION OF WALL A  
Scale  $\frac{1}{2} = 1:0$



SECTION A-A  
Scale  $\frac{1}{2} = 1:0$

LORAIN CENTRAL BRIDGE  
PLAN OF WALL A-AT RAILING TERMINAL  
SHOWING CUTS IN LEDGE TO ALLOW SIDEWALK  
SLABS SUPPORT UNDER RAILING POSTS

WALTER WATSON  
CONSULTING ENGINEER

This plan is an addenda to WA 2916-38  
2-27-32 R.





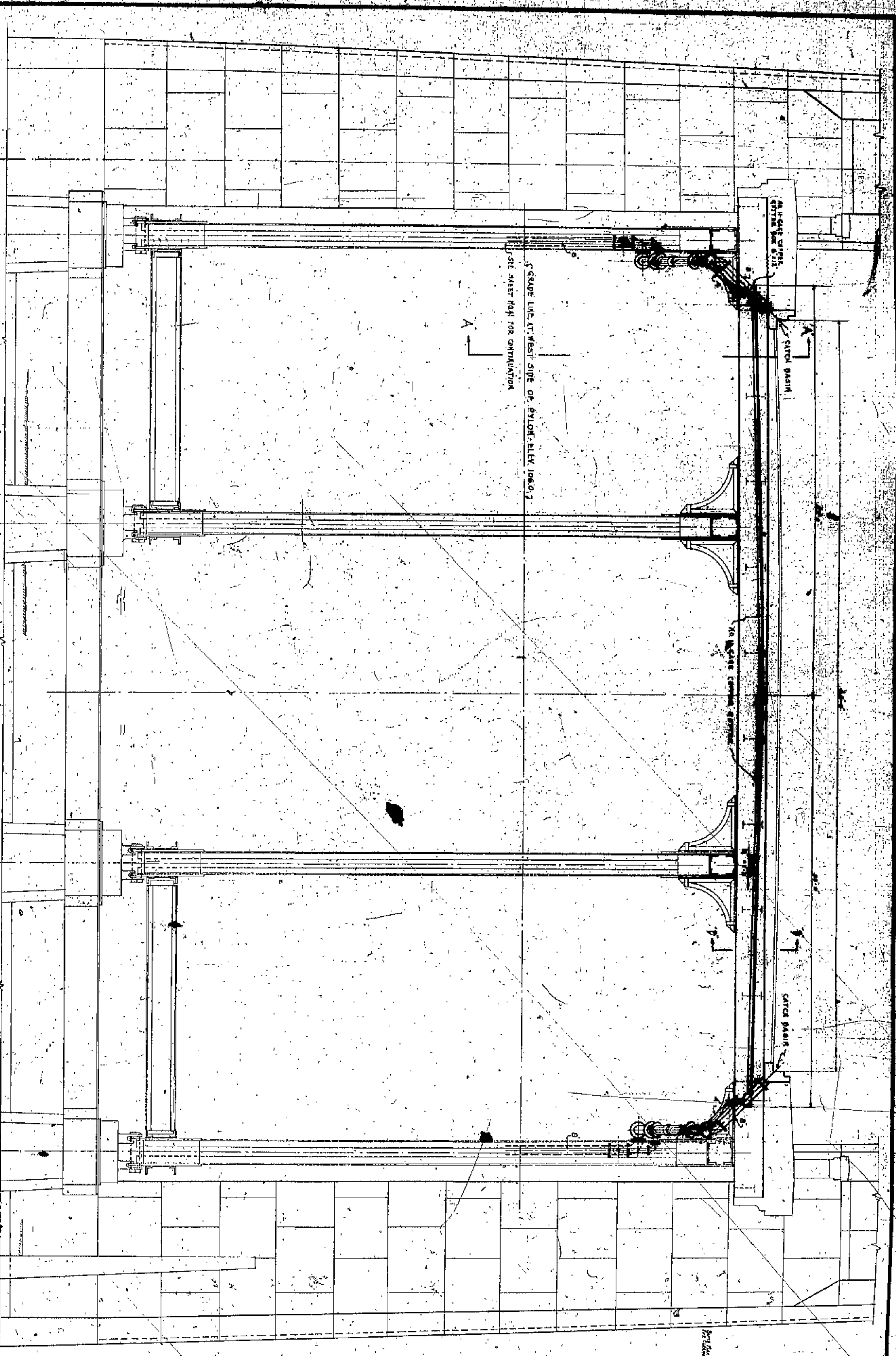




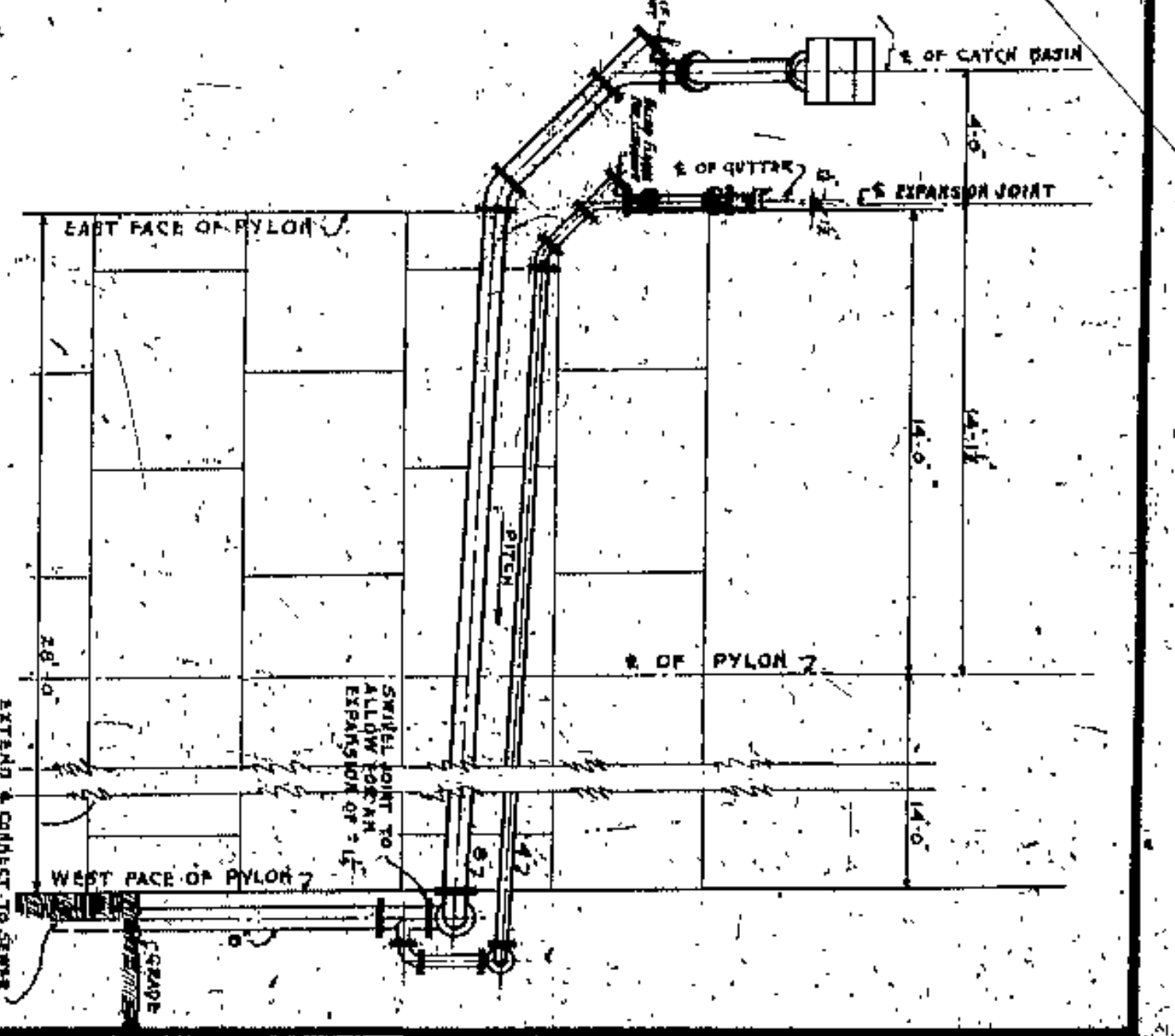




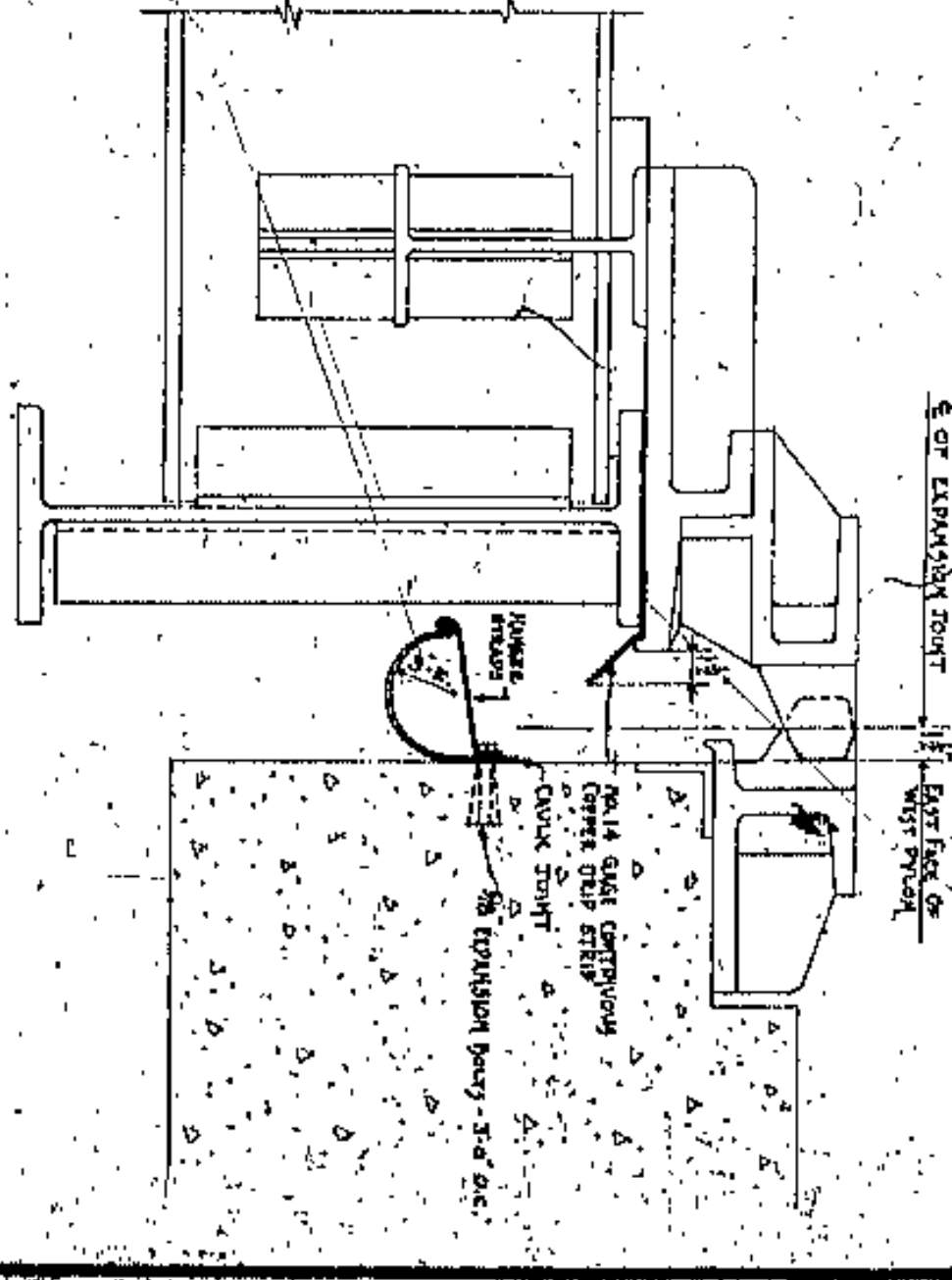




EAST ELEVATION OF WEST PYLON  
SCALE 1/8" = 1'-0"



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



DETAIL OF DRAINAGE GUTTER AT WEST PYLON  
SCALE 1/8" = 1'-0"

APPROVED BY

CHIEF ENGINEER  
ARCHITECT  
ENGINEER  
BRIDGE ENGINEER

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SUPERVISOR
J. B. SMITH	F. R. WILLIAMS
J. H. WARRIL	COUNTY BRIDGE ENGINEER
N. E. COOK	A. M. FELSBYTE
<b>LORAIN CENTRAL BRIDGE</b>	
<b>DRAINAGE AT WEST PYLON</b>	
CLEVELAND	
WILLIAM WATSON AND F. W. WILNER CONSULTING ENGINEERS AND ARCHITECTS CLEVELAND, OHIO	

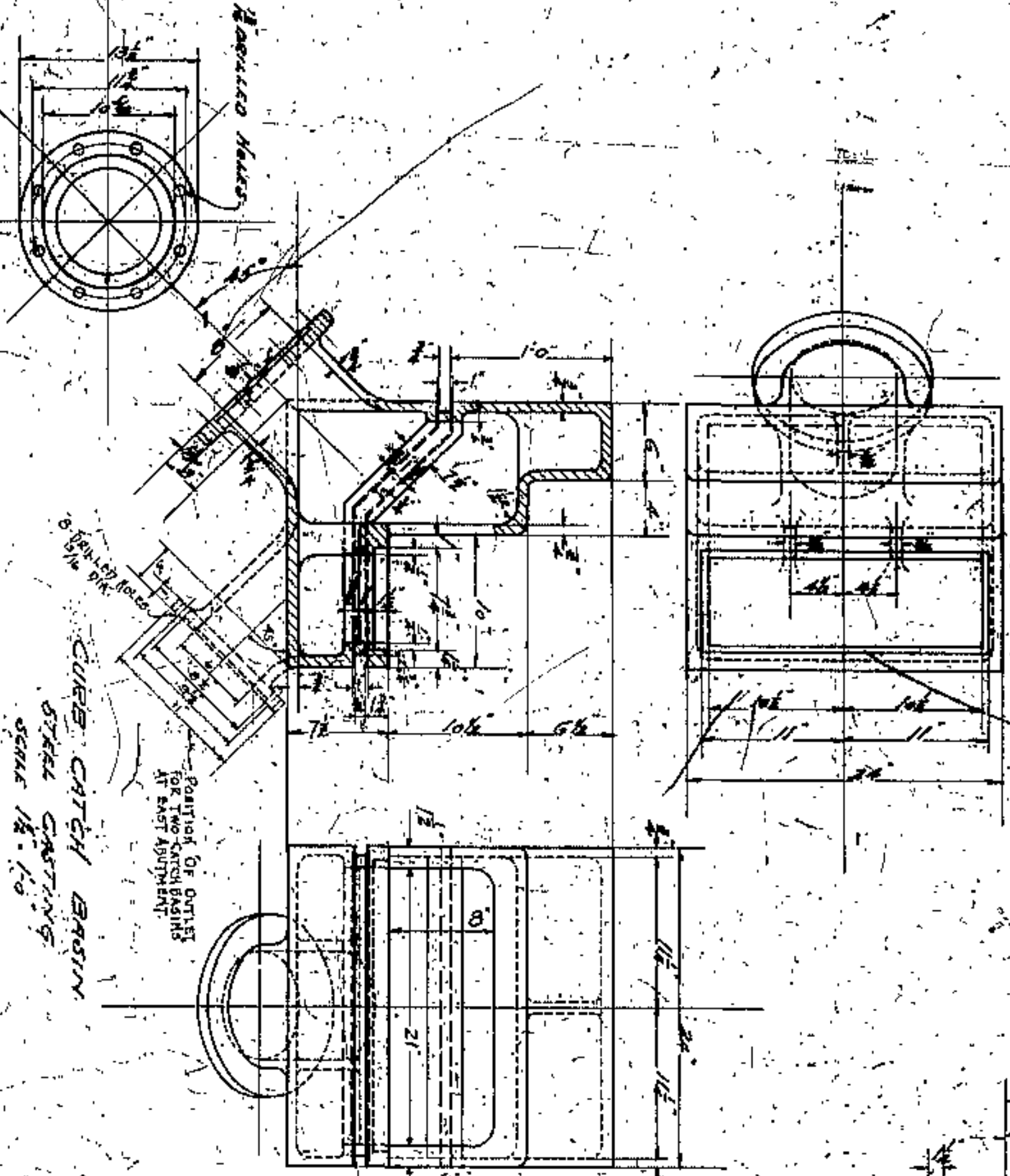




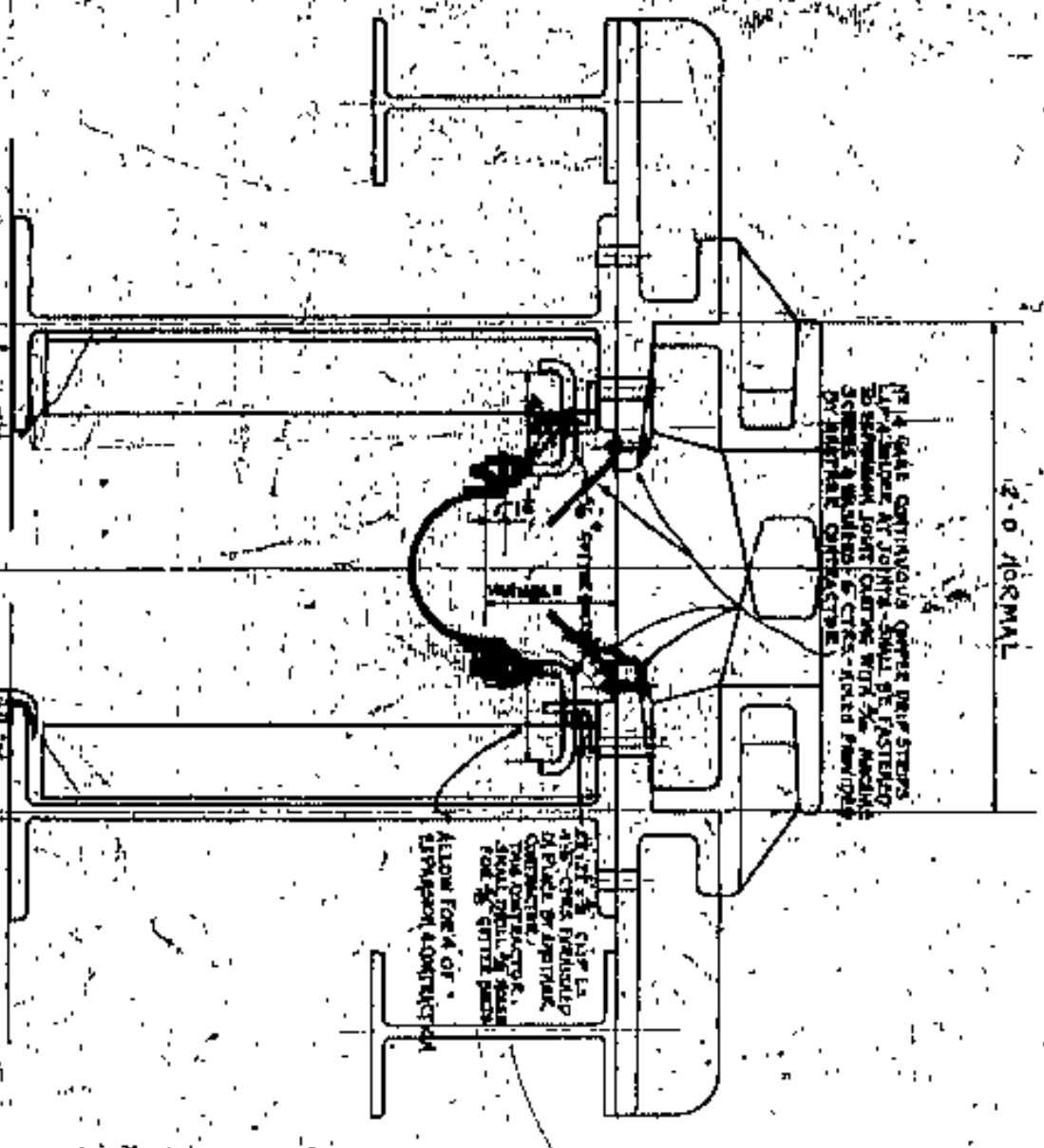




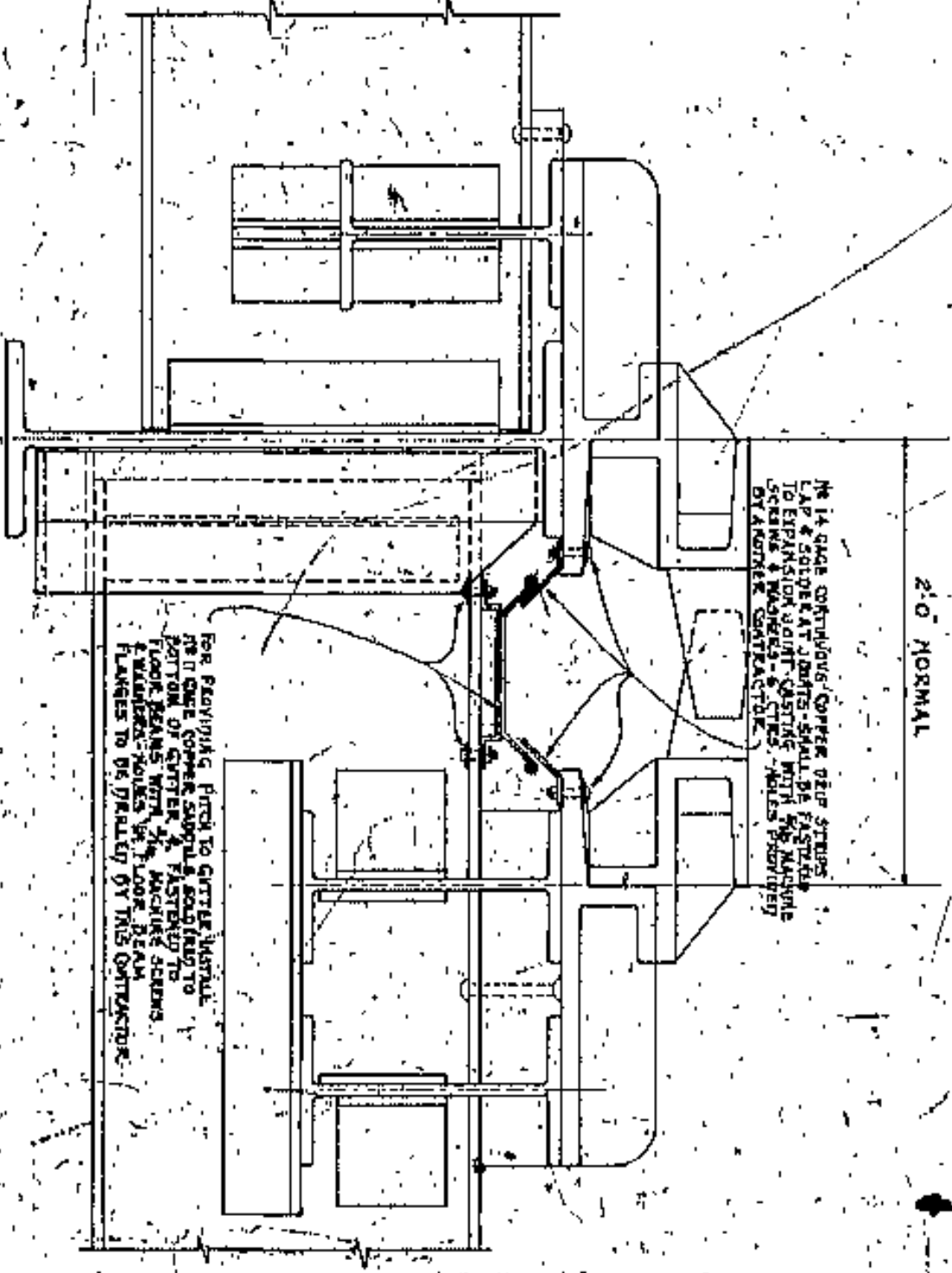
SPACING  
STEEL CHANNELS  
SCALE 1/2" = 1'-0"



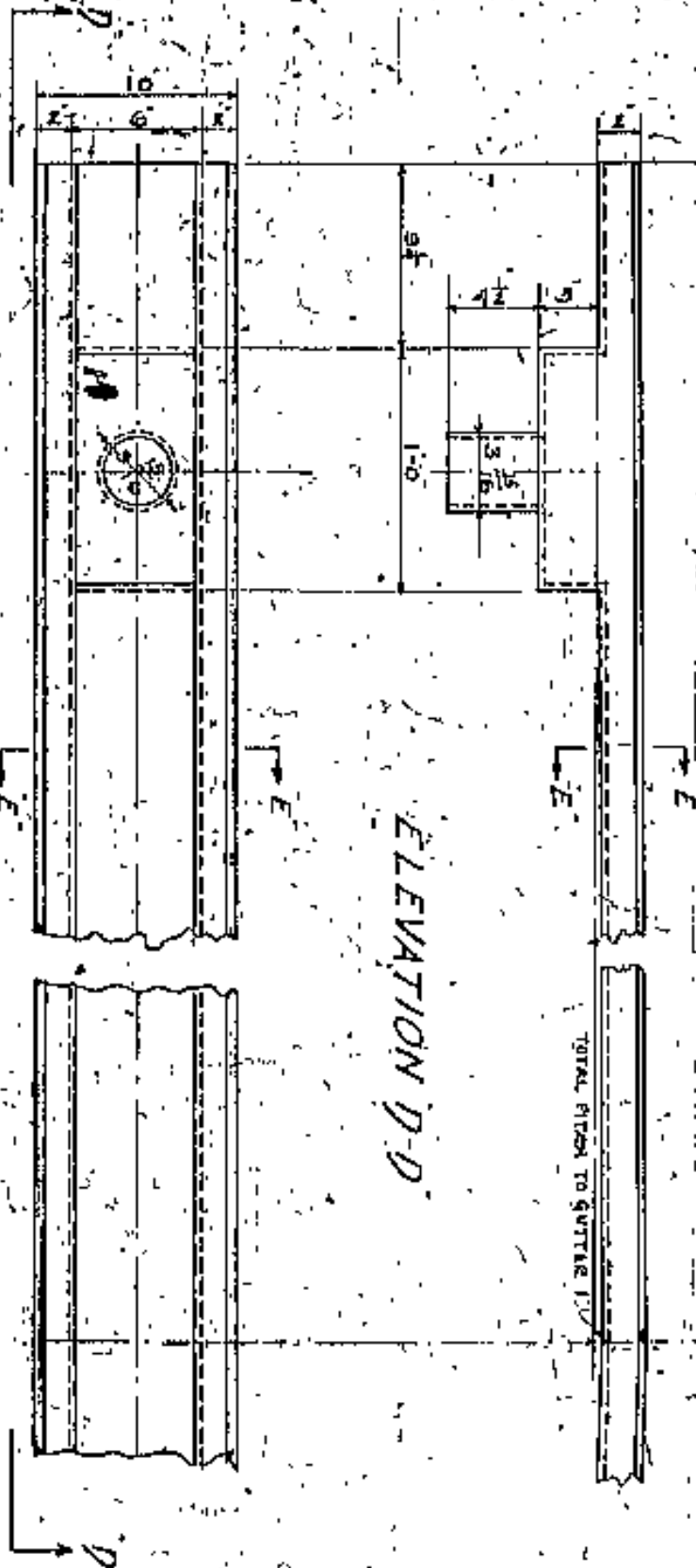
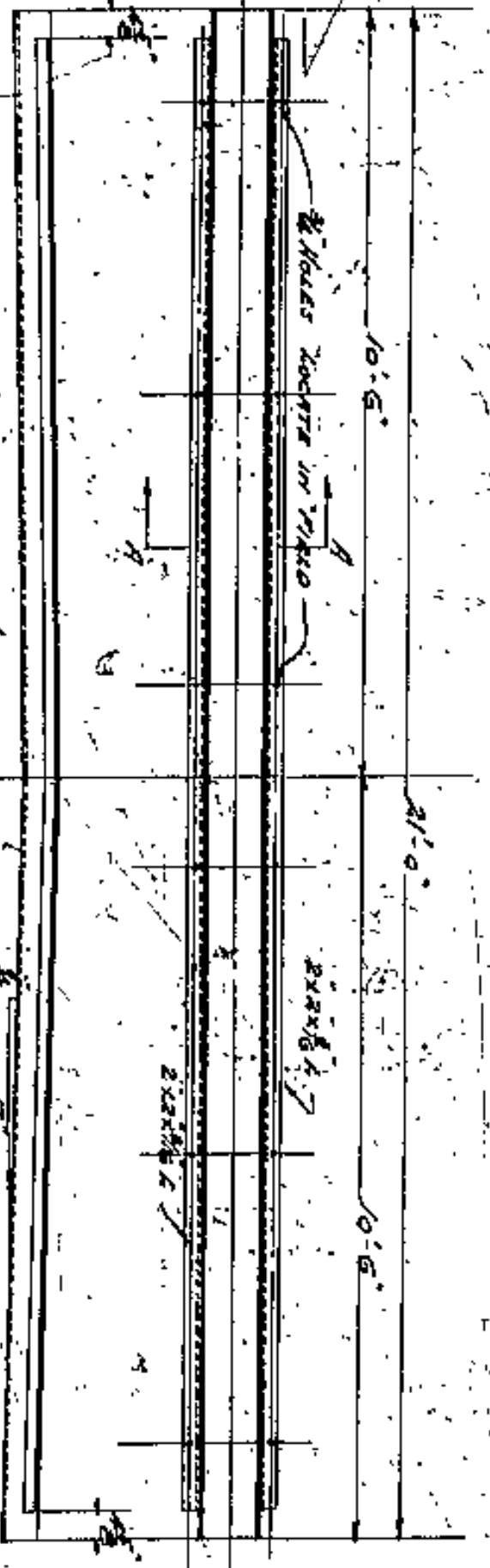
CONCRETE CATCH BASIN  
STEEL CASTINGS  
SCALE 1/2" = 1'-0"



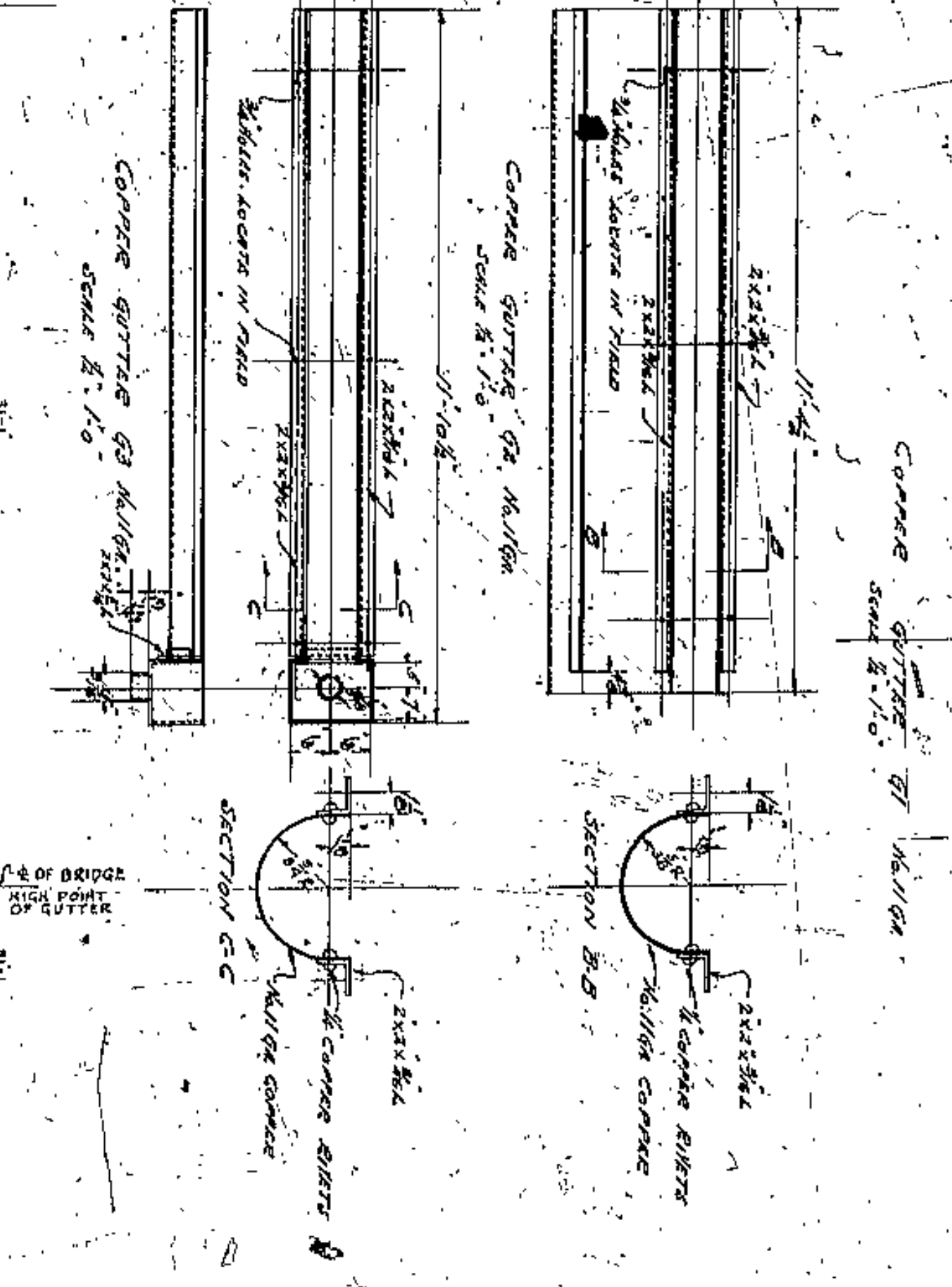
TYPICAL CROSS SECTION OF  
DRAINAGE GUTTER AT SPANNING JOINT  
SCALE 1/2" = 1'-0"



SECTION F-F (SEE SHEET 10 AS)  
DETAIL OF DRAINAGE GUTTER AT EAST PYLON  
SCALE 1/2" = 1'-0"



DETAIL OF GUTTER AT EAST PYLON  
SCALE 1/2" = 1'-0"



SECTION A-A  
SECTION B-B  
SECTION C-C  
SECTION D-D

APPROVED BY

DATE	BY	CHKD BY	APP'D BY

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SHERIFF  
J. R. ZWUNT  
J. H. HARRIS  
W. E. COOK

COUNTY BRIDGE ENGINEER  
A. W. FELGATE

**LORAIN CENTRAL BRIDGE**  
CLEVELAND

**DRAINAGE DETAILS**

SCALE 1/2" = 1'-0"

DESIGNED BY  
W. BIRNBAUM AND R. WALKER  
CONSULTING ENGINEERS AND ARCHITECTS  
CLEVELAND

NO.	DATE	BY	CHKD BY	APP'D BY
1	10-1-30	W.B.	R.W.	
2	10-1-30	W.B.	R.W.	
3	10-1-30	W.B.	R.W.	
4	10-1-30	W.B.	R.W.	
5	10-1-30	W.B.	R.W.	



GENERAL DATA

SPECIFICATIONS

**WIRE STRAINERS:** - FLOOR SLAB OR CONCRETE AND GROUTED JOINTS SHALL BE REINFORCED WITH WIRE STRAINERS AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS. THE STRAINERS SHALL BE PLACED IN THE CONCRETE AT THE JOINTS AND SHALL BE PROTECTED BY A MINIMUM OF 1" OF CONCRETE. THE STRAINERS SHALL BE PLACED IN THE CONCRETE AT THE JOINTS AND SHALL BE PROTECTED BY A MINIMUM OF 1" OF CONCRETE.

**WIRE STRAINERS:** - FLOOR SLAB OR CONCRETE AND GROUTED JOINTS SHALL BE REINFORCED WITH WIRE STRAINERS AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS. THE STRAINERS SHALL BE PLACED IN THE CONCRETE AT THE JOINTS AND SHALL BE PROTECTED BY A MINIMUM OF 1" OF CONCRETE. THE STRAINERS SHALL BE PLACED IN THE CONCRETE AT THE JOINTS AND SHALL BE PROTECTED BY A MINIMUM OF 1" OF CONCRETE.

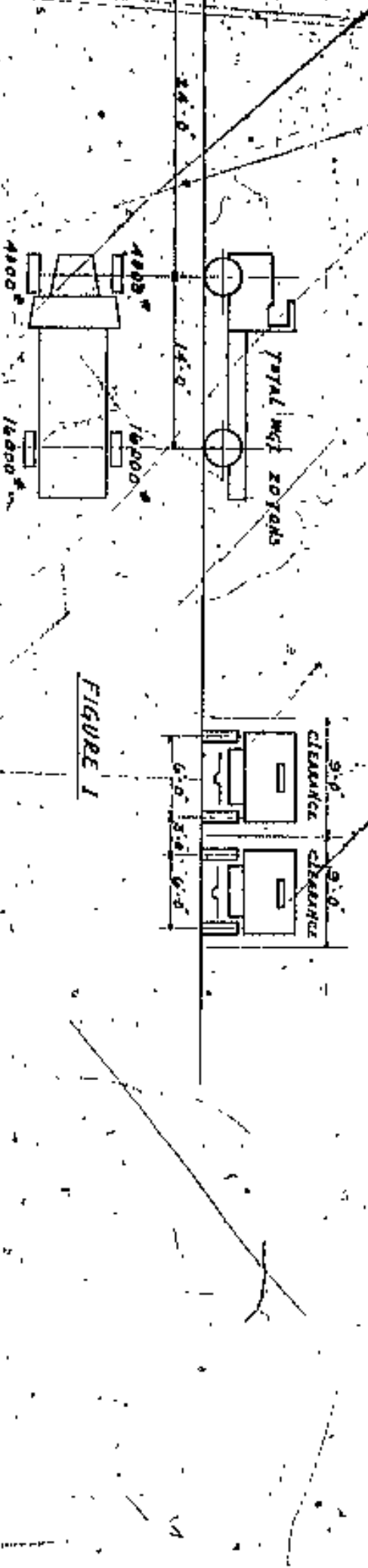
**WIRE STRAINERS:** - FLOOR SLAB OR CONCRETE AND GROUTED JOINTS SHALL BE REINFORCED WITH WIRE STRAINERS AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS. THE STRAINERS SHALL BE PLACED IN THE CONCRETE AT THE JOINTS AND SHALL BE PROTECTED BY A MINIMUM OF 1" OF CONCRETE. THE STRAINERS SHALL BE PLACED IN THE CONCRETE AT THE JOINTS AND SHALL BE PROTECTED BY A MINIMUM OF 1" OF CONCRETE.

**LOADING LIFE LOAD:** - THE ROADWAY SHALL BE DESIGNED TO CARRY 20 TON TRUCKS WITH 50% IMPACT DISTRIBUTED ACCORDING TO THE Ohio STATE SPECIFICATIONS FOR HIGHWAY BRIDGES. THE TRUCKS SHALL BE ASSUMED TO BE PLACED ON THE TRUCK TRACKS WITH 50% IMPACT. THE FLOOR BEAMS AND THEIR IMMEDIATE SUPPORTS SHALL BE DESIGNED FOR THE TRUCKS WITH 50% IMPACT. THE FLOOR BEAMS AND THEIR IMMEDIATE SUPPORTS SHALL BE DESIGNED FOR THE TRUCKS WITH 50% IMPACT.

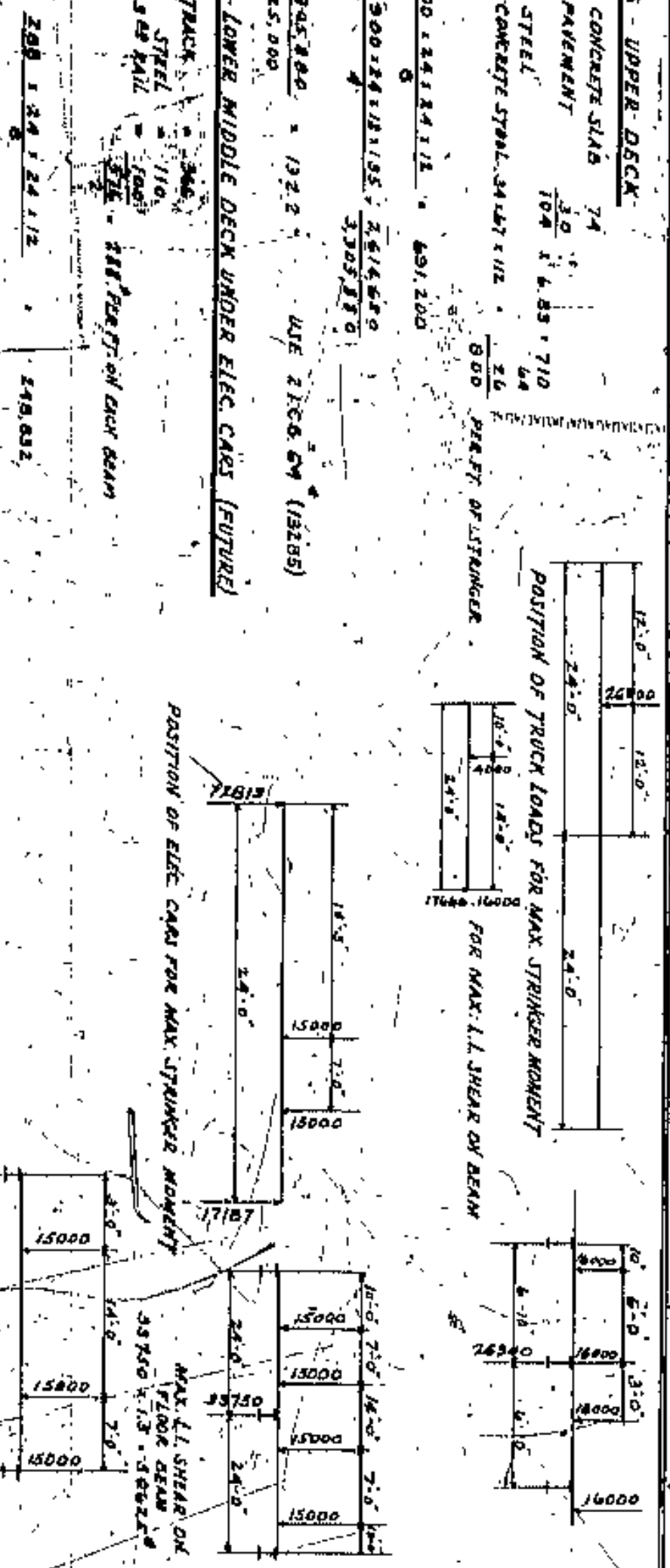
**LOADING LIFE LOAD:** - THE ROADWAY SHALL BE DESIGNED TO CARRY 20 TON TRUCKS WITH 50% IMPACT DISTRIBUTED ACCORDING TO THE Ohio STATE SPECIFICATIONS FOR HIGHWAY BRIDGES. THE TRUCKS SHALL BE ASSUMED TO BE PLACED ON THE TRUCK TRACKS WITH 50% IMPACT. THE FLOOR BEAMS AND THEIR IMMEDIATE SUPPORTS SHALL BE DESIGNED FOR THE TRUCKS WITH 50% IMPACT. THE FLOOR BEAMS AND THEIR IMMEDIATE SUPPORTS SHALL BE DESIGNED FOR THE TRUCKS WITH 50% IMPACT.

**RAILROAD:** - THE TRACKS CARRYING THE RAILROAD TRUCKS SHALL BE DESIGNED TO CARRY 40 TON ELECTRIC CARS WITH 60% IMPACT AND WITH THE WHEELS SPACED AS SPECIFIED IN THE Ohio STATE SPECIFICATIONS FOR RAILROAD BRIDGES. THE TRACKS SHALL BE ASSUMED TO BE PLACED ON THE TRACKS WITH 60% IMPACT. THE TRACKS SHALL BE ASSUMED TO BE PLACED ON THE TRACKS WITH 60% IMPACT.

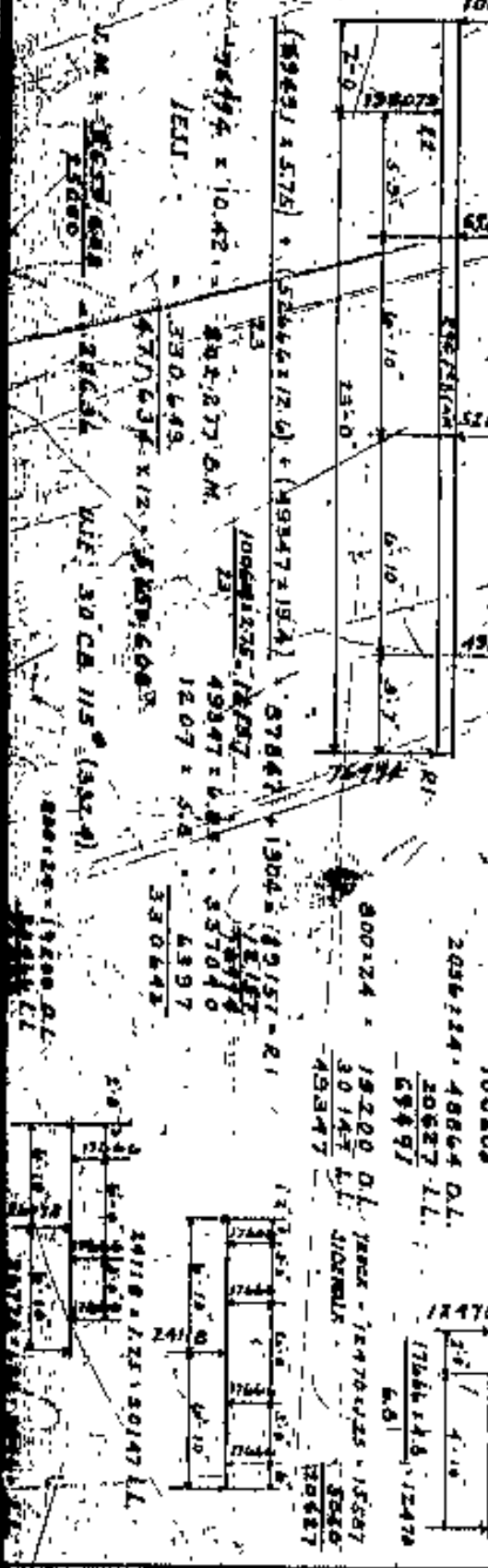
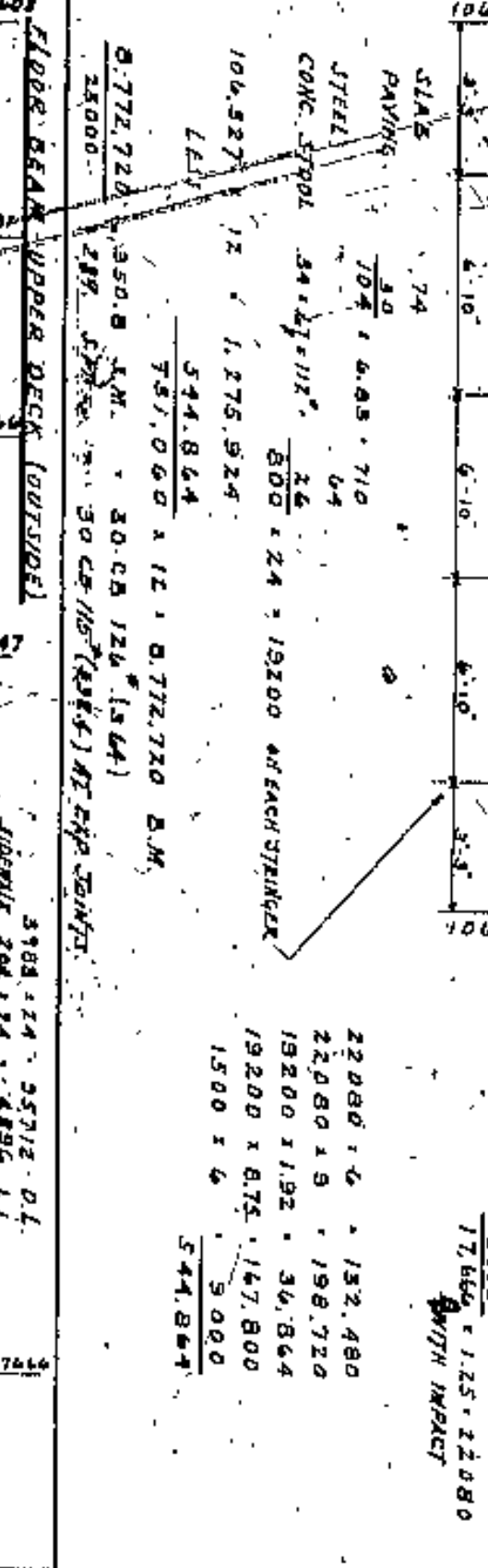
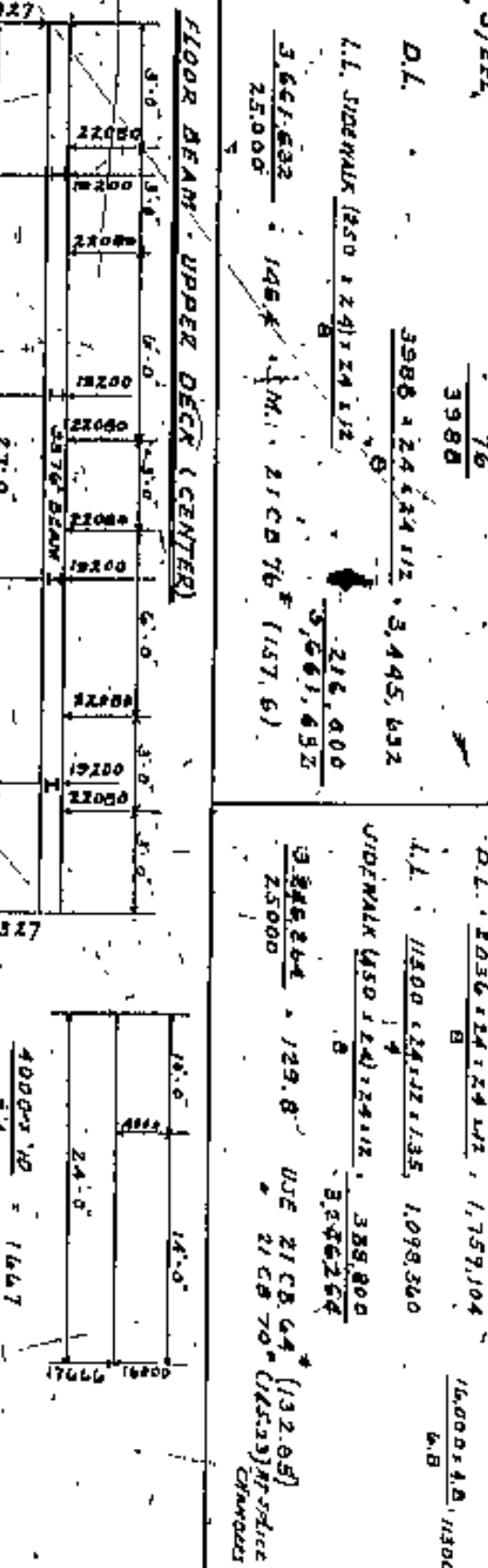
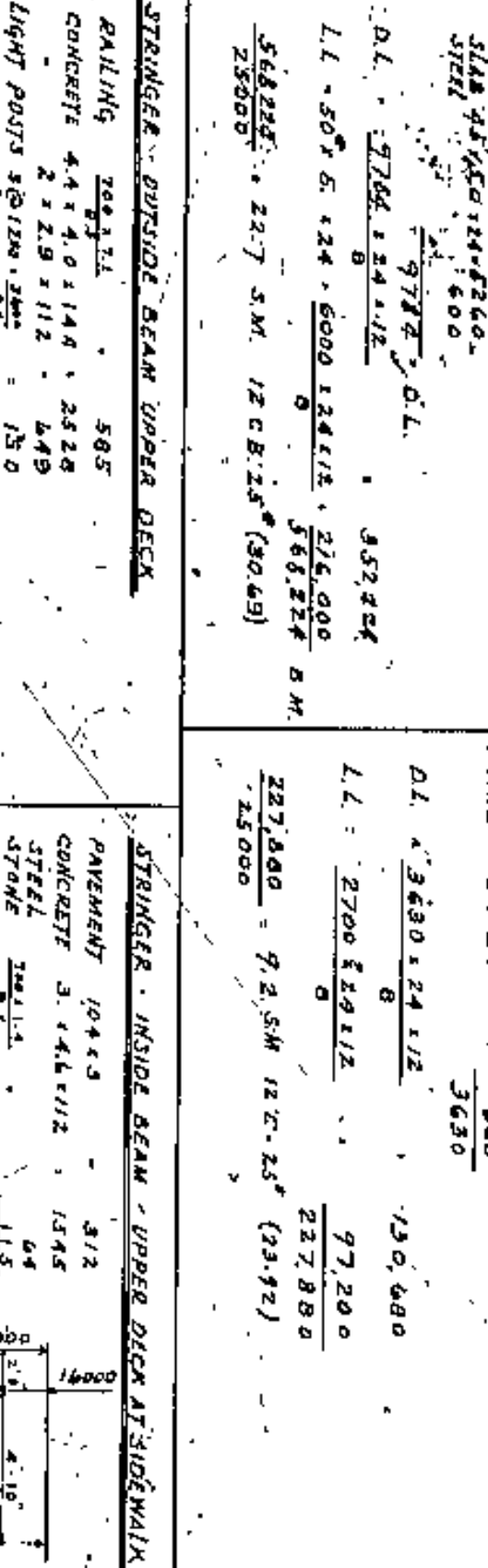
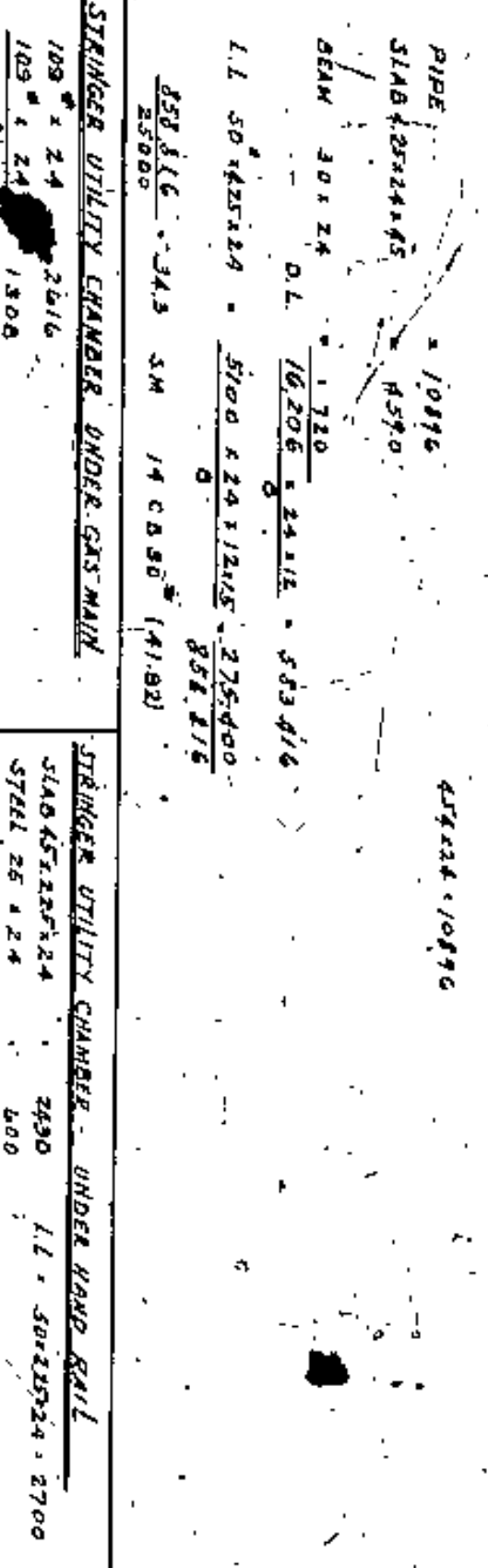
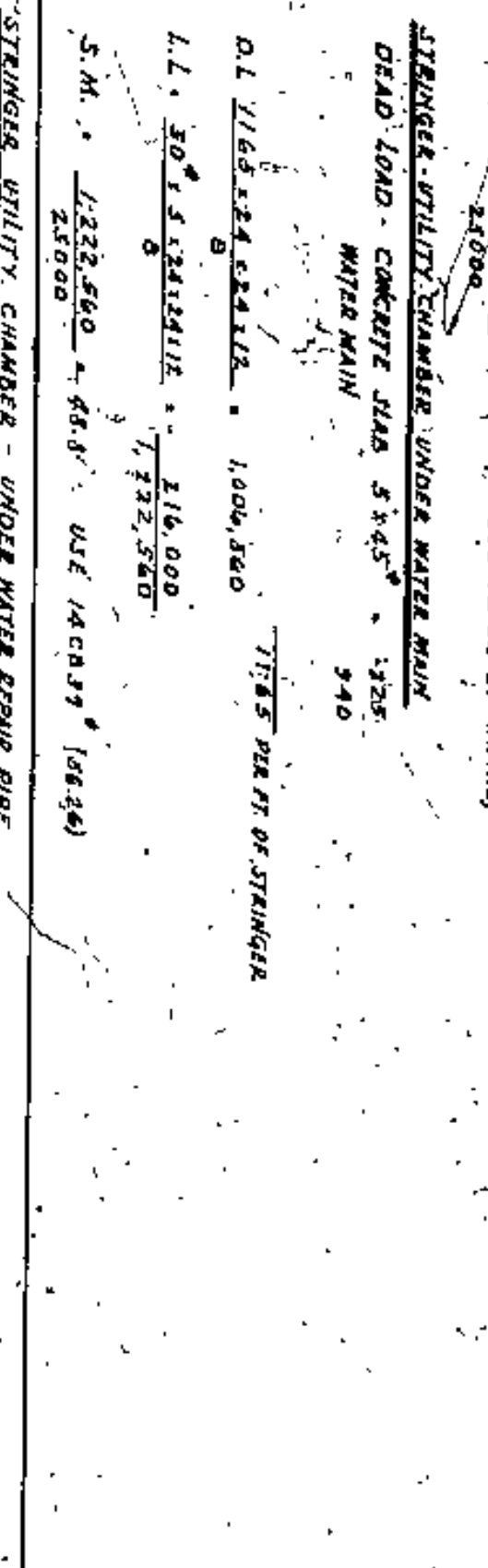
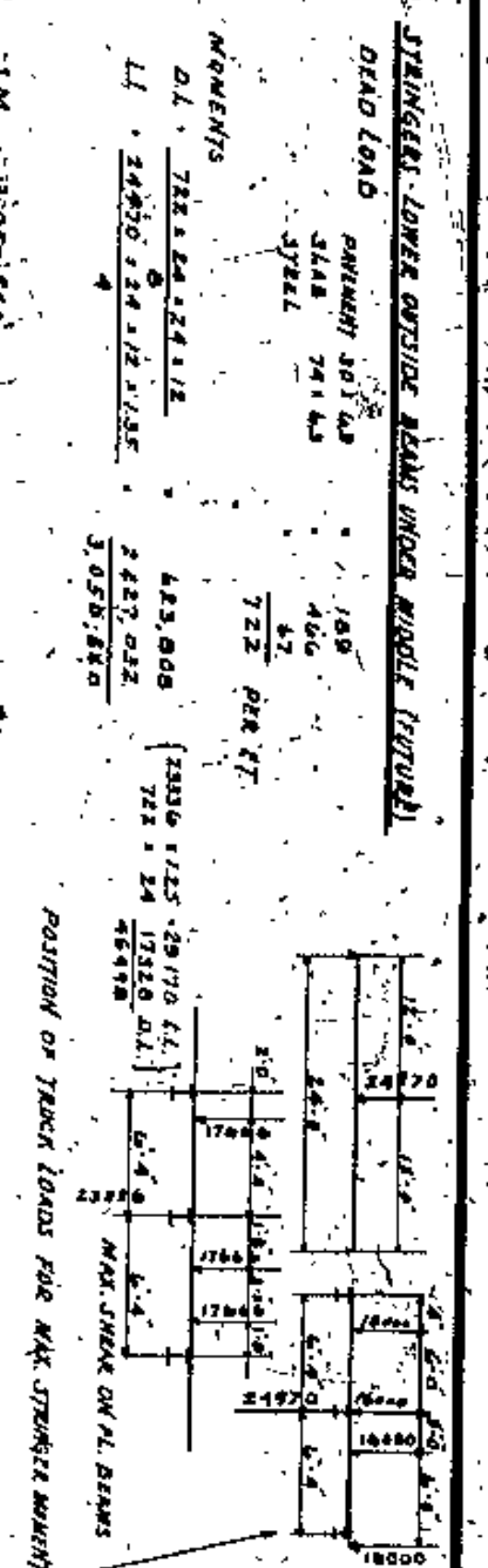
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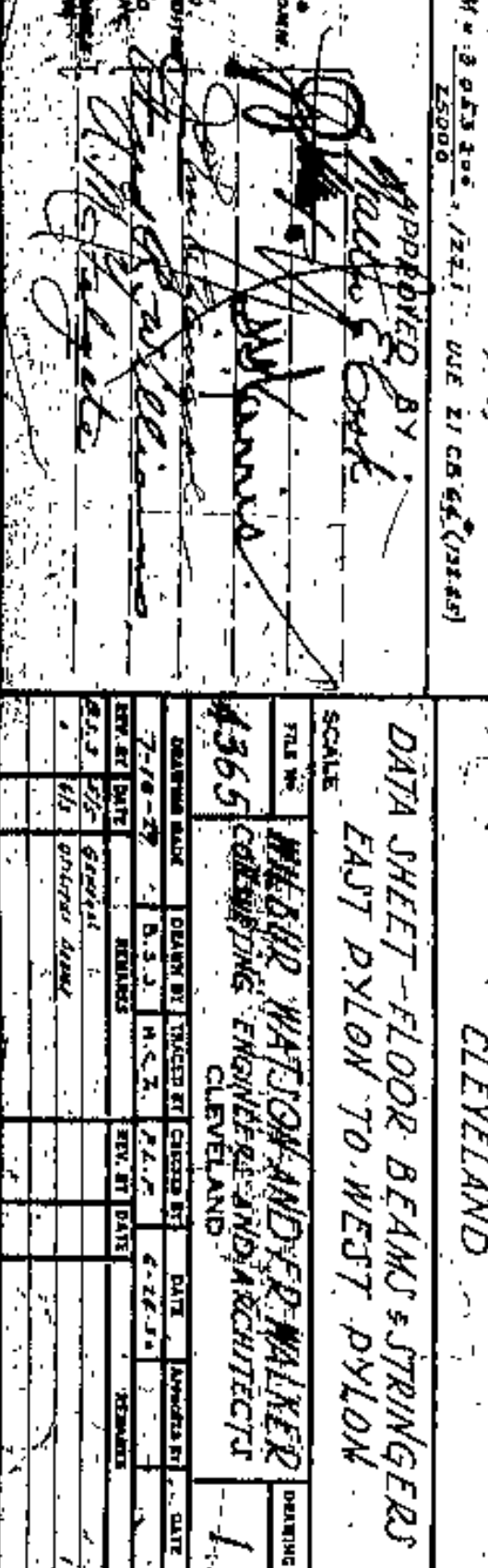
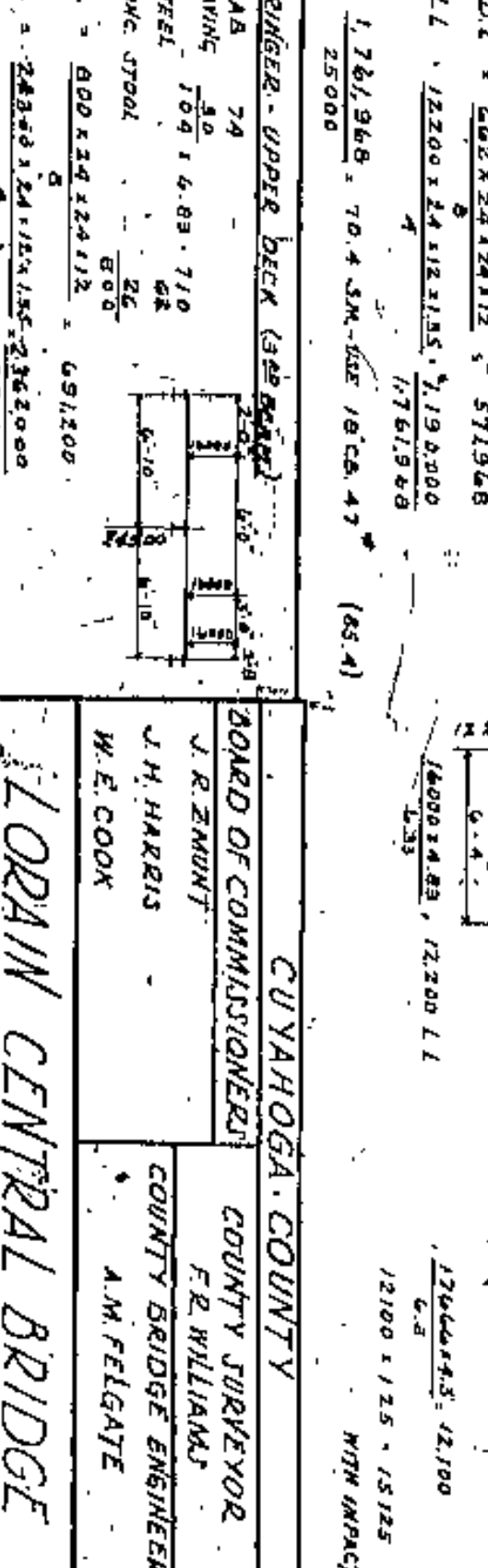
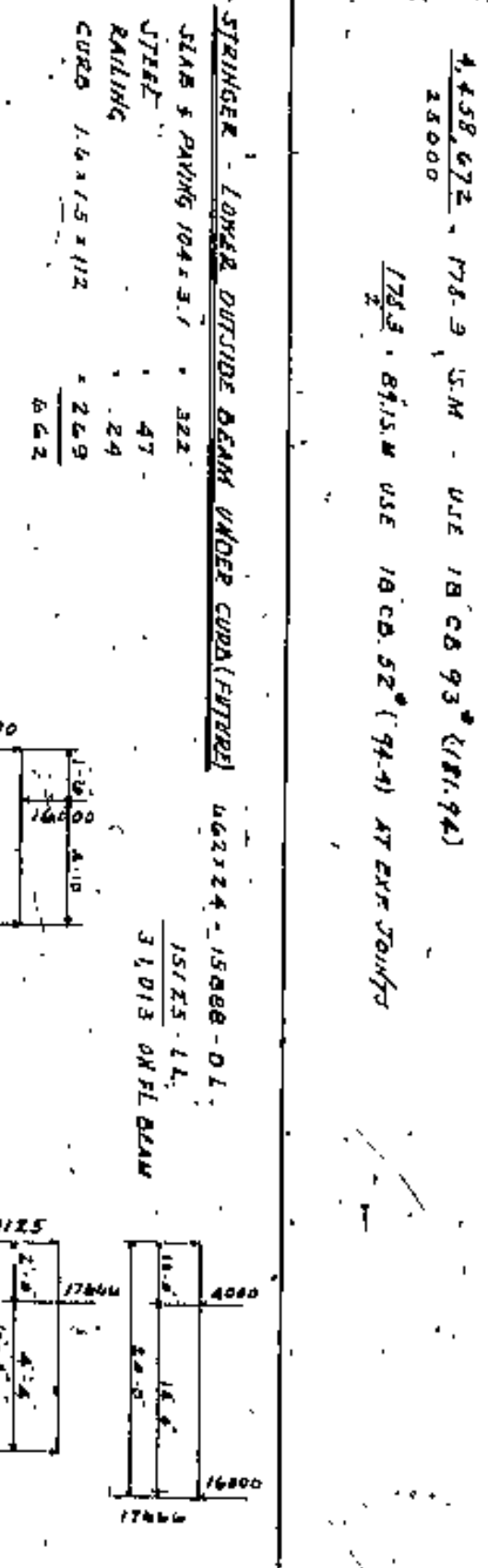
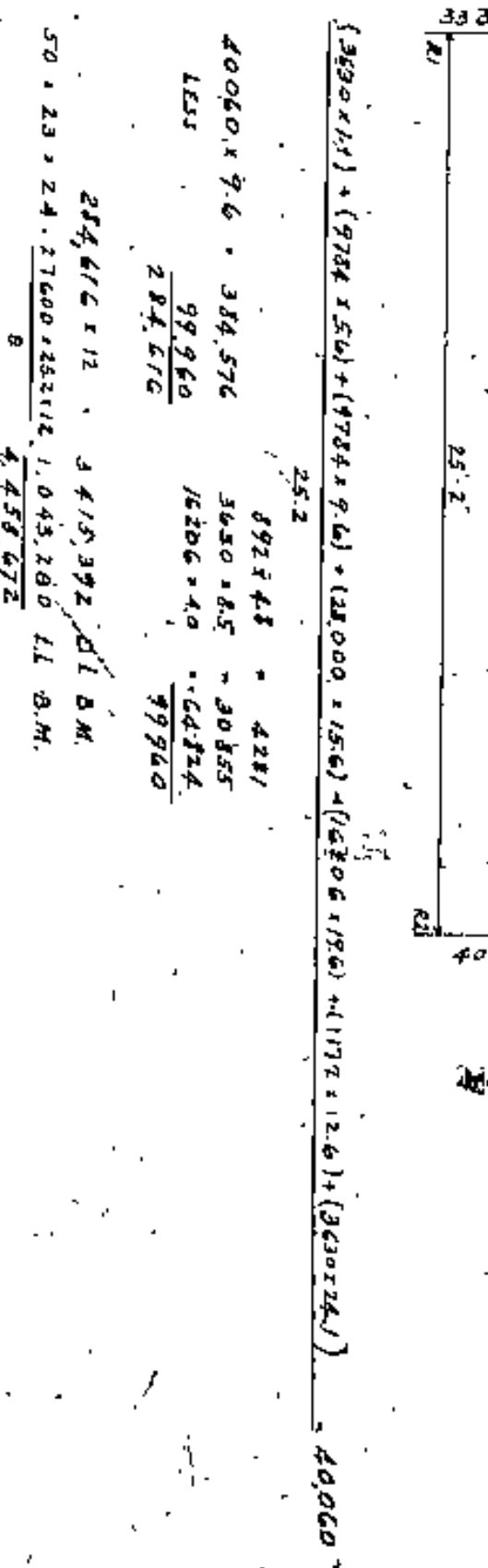
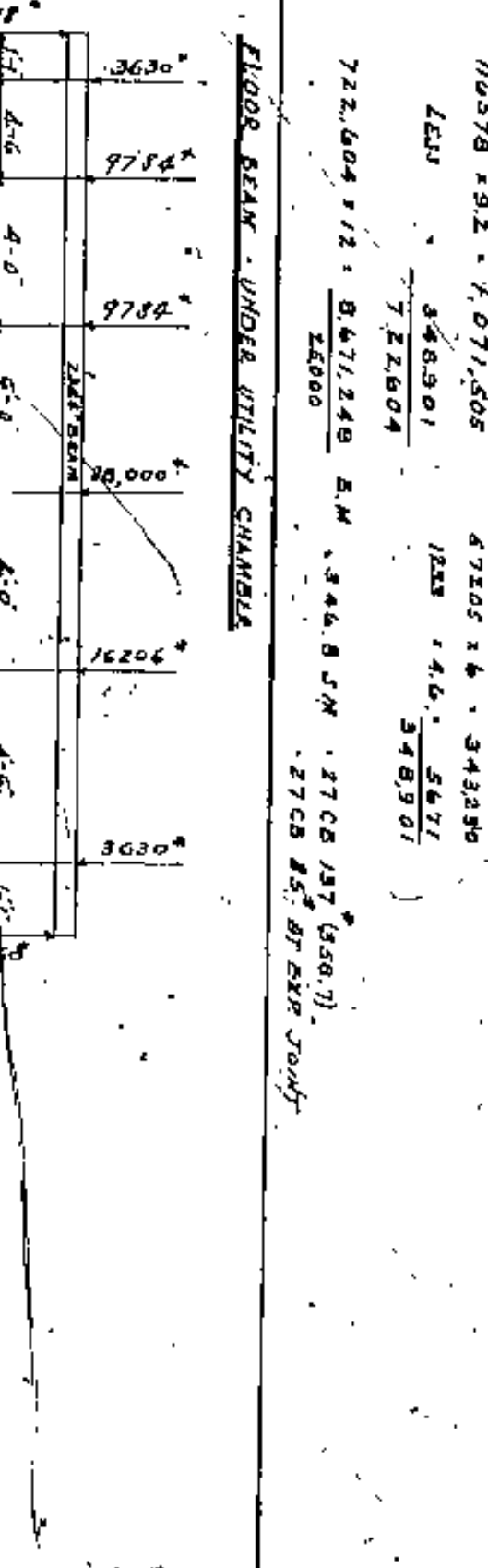
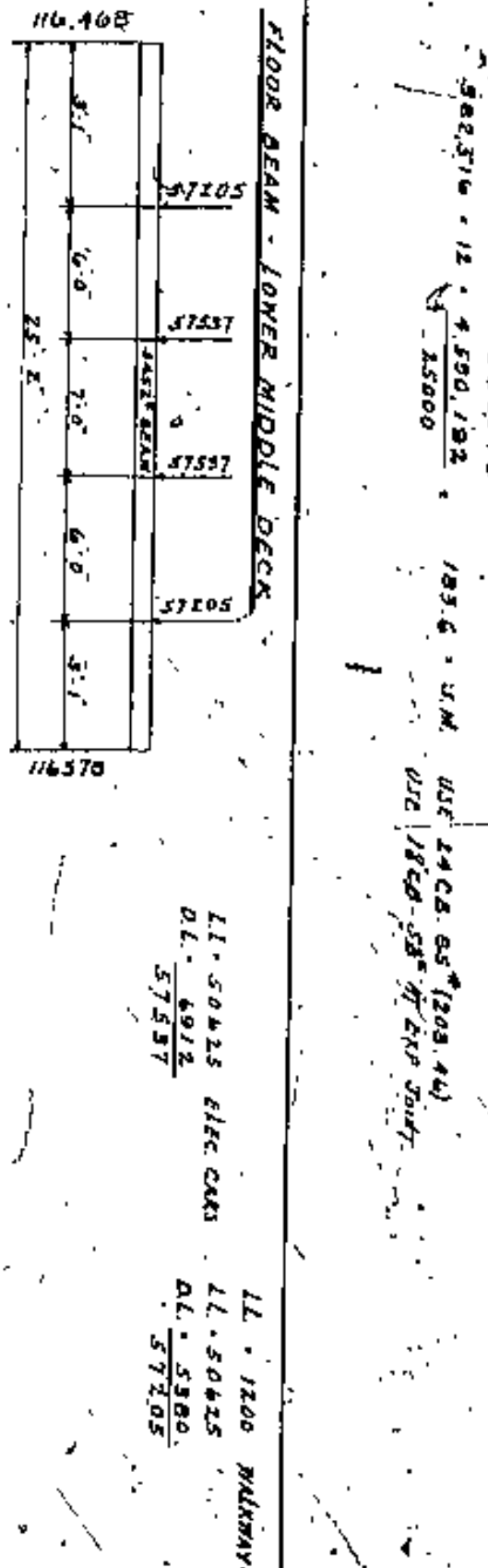
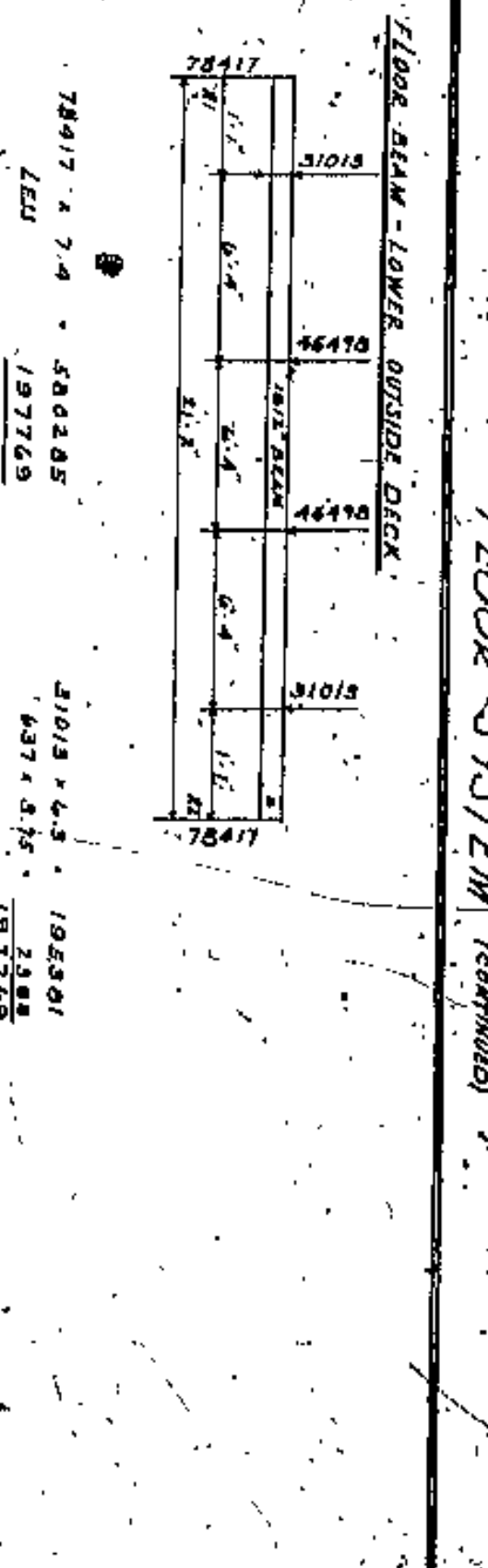
FLOOR SYSTEM - ALL BEAMS SILICON STEEL



FLOOR SYSTEM (Continued)



FLOOR SYSTEM (Continued)



**APPROVED BY:**  
 J. R. EMERY  
 COUNTY SUPERVISOR  
 BOARD OF COMMISSIONERS

**DESIGNED BY:**  
 W. E. COOK  
 COUNTY BRIDGE ENGINEER

**DATE SHEET:** FLOOR BEAMS & STRINGERS  
 EAST Pylon TO WEST Pylon

**SCALE:** 1/4" = 1'-0"

**PROJECT:** LORAIN CENTRAL BRIDGE  
 CLEVELAND



GENERAL DATA

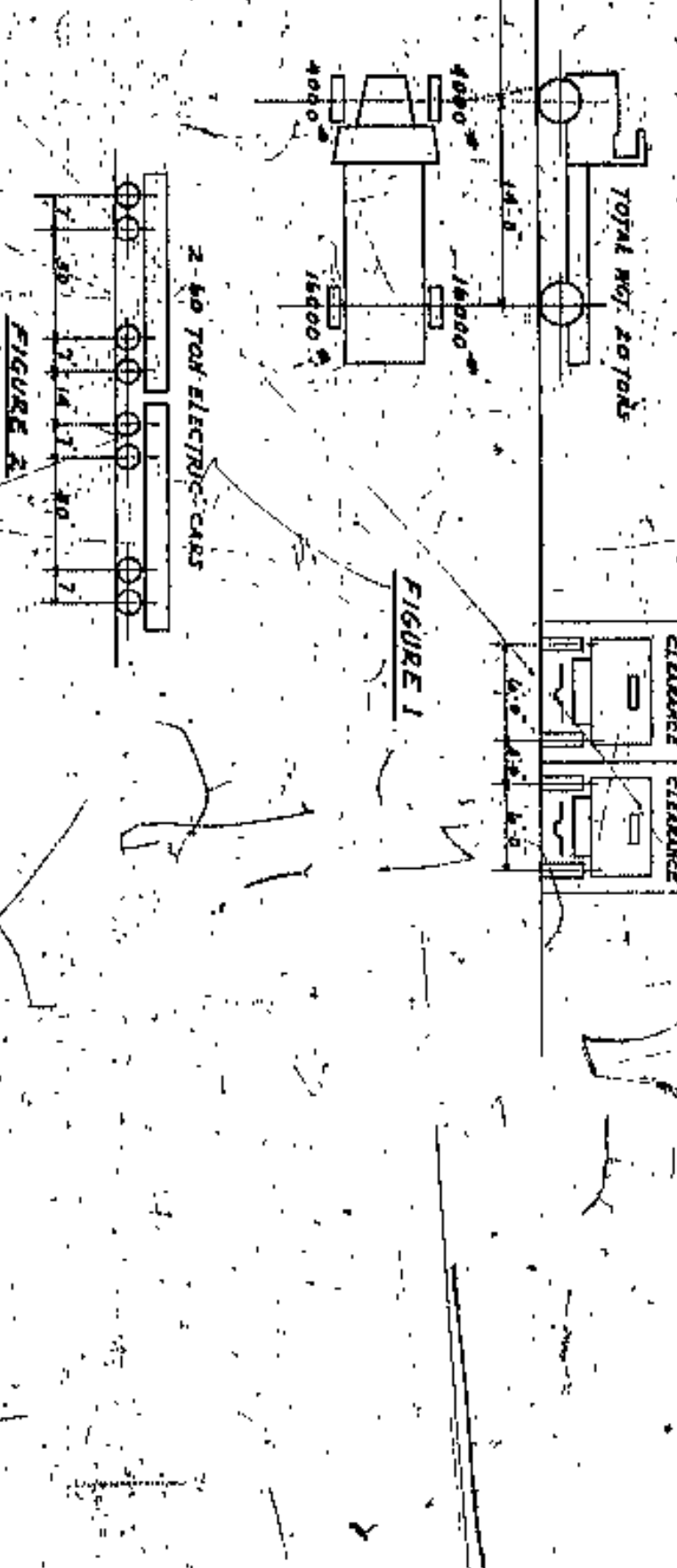
DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
STEEL	100,000	LB	0.15	15,000.00
CONCRETE	10,000	CU YD	1.50	15,000.00
WOOD	5,000	CU YD	1.00	5,000.00
PAINT	100	GA	100.00	10,000.00
LABOR	10,000	HOUR	1.00	10,000.00
OVERHEAD	10,000	DOLLAR	1.00	10,000.00
TOTAL				70,000.00

**LOADS**  
 The roadway shall be designed to carry 20-ton trucks with 50% impact distributed according to the Ohio State Specifications for Highway Bridges. The highway trucks shall be designed for 20-ton trucks with 25% impact. The floor beams and their immediate supports shall also be followed for the distribution of loads to stringers and floor beams. The live load specifications shall also be followed for the distribution of loads to stringers and floor beams.

**RAILROAD**  
 The stringers carrying the railway tracks shall be designed to carry 40-ton axle cars with 60% impact and with the floor beams and their immediate supports shall be designed for the same load with 50% impact.

**WIND**  
 The wind shall be designed to carry a load of 100 lbs per sq ft with 50% impact.

**SEISMIC**  
 All railing shall be designed to carry a vertical load of 100 per lineal ft. and a horizontal load of 50 per lineal ft.



FLOOR SYSTEM - ALL BEAMS SILICON STEEL

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	STEEL	100,000	LB	0.15	15,000.00
2	CONCRETE	10,000	CU YD	1.50	15,000.00
3	WOOD	5,000	CU YD	1.00	5,000.00
4	PAINT	100	GA	100.00	10,000.00
5	LABOR	10,000	HOUR	1.00	10,000.00
6	OVERHEAD	10,000	DOLLAR	1.00	10,000.00
7	TOTAL				70,000.00

FLOOR SYSTEM (continued)

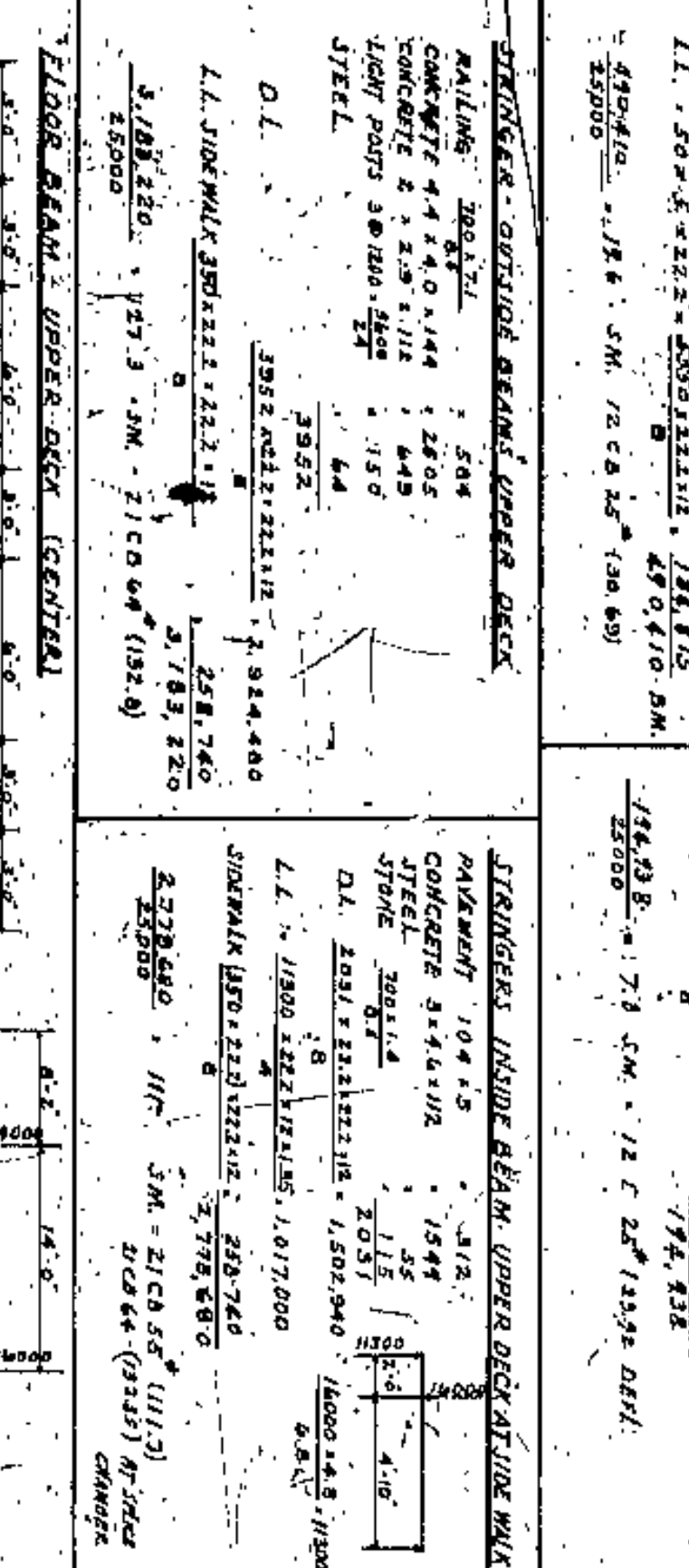
ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	STEEL	100,000	LB	0.15	15,000.00
2	CONCRETE	10,000	CU YD	1.50	15,000.00
3	WOOD	5,000	CU YD	1.00	5,000.00
4	PAINT	100	GA	100.00	10,000.00
5	LABOR	10,000	HOUR	1.00	10,000.00
6	OVERHEAD	10,000	DOLLAR	1.00	10,000.00
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 All railing shall be designed to carry a vertical load of 100 per lineal ft. and a horizontal load of 50 per lineal ft.



FLOOR SYSTEM - ALL BEAMS SILICON STEEL

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	STEEL	100,000	LB	0.15	15,000.00
2	CONCRETE	10,000	CU YD	1.50	15,000.00
3	WOOD	5,000	CU YD	1.00	5,000.00
4	PAINT	100	GA	100.00	10,000.00
5	LABOR	10,000	HOUR	1.00	10,000.00
6	OVERHEAD	10,000	DOLLAR	1.00	10,000.00
7	TOTAL				70,000.00

FLOOR SYSTEM (continued)

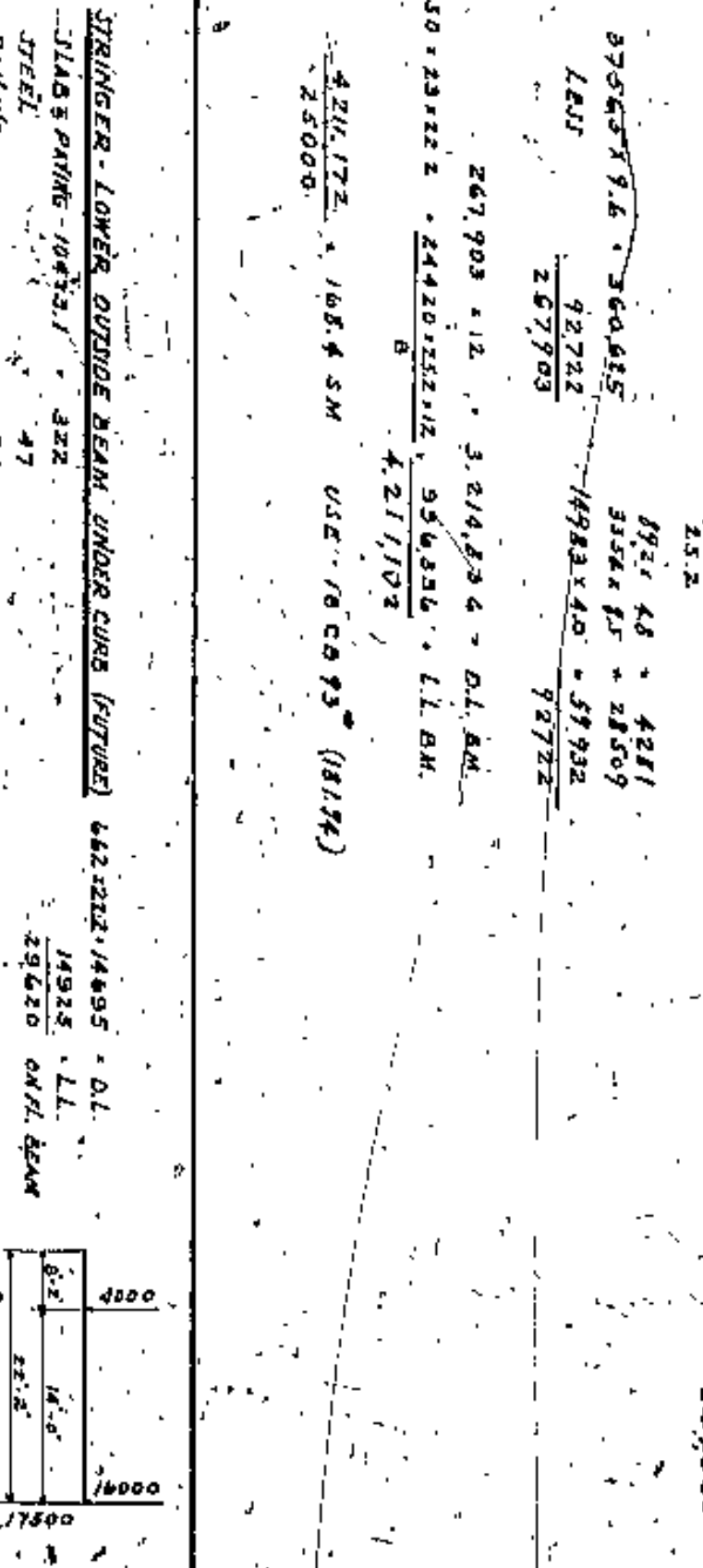
ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	STEEL	100,000	LB	0.15	15,000.00
2	CONCRETE	10,000	CU YD	1.50	15,000.00
3	WOOD	5,000	CU YD	1.00	5,000.00
4	PAINT	100	GA	100.00	10,000.00
5	LABOR	10,000	HOUR	1.00	10,000.00
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7	TOTAL				70,000.00

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FLOOR SYSTEM - ALL BEAMS SILICON STEEL

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	STEEL	100,000	LB	0.15	15,000.00
2	CONCRETE	10,000	CU YD	1.50	15,000.00
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6	OVERHEAD	10,000	DOLLAR	1.00	10,000.00
7	TOTAL				70,000.00

LORAIN CENTRAL BRIDGE  
 CUYAHOGA COUNTY  
 COUNTY SUPERVISOR  
 FR WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK

DATA SHEET - FLOOR BEAMS - STRINGERS  
 EAST Pylon TO WEST Pylon  
 WILSON WATSON AND FRANKLIN  
 ENGINEERS AND ARCHITECTS  
 CLEVELAND  
 2



GENERAL DATA

**SPECIFICATIONS**

**WEAR SURF**  
 GENERAL METHOD OF SURFACE AND ROLLING SHALL BE AS UNDER AND DESIGN SHALL BE AS FOLLOWS:  
 1. WEAR SURF SHALL BE 1.5" THICK AND SHALL BE MADE OF PORTLAND CEMENT CONCRETE WITH 4% AGGREGATE AND SHALL BE FINISHED TO A SMOOTH SURFACE.  
 2. THE SURFACE SHALL BE FINISHED TO A SMOOTH SURFACE.  
 3. THE SURFACE SHALL BE FINISHED TO A SMOOTH SURFACE.

**CONCRETE**  
 ALL CONCRETE SHALL BE MADE OF PORTLAND CEMENT CONCRETE WITH 4% AGGREGATE AND SHALL BE FINISHED TO A SMOOTH SURFACE.  
 ALL CONCRETE SHALL BE MADE OF PORTLAND CEMENT CONCRETE WITH 4% AGGREGATE AND SHALL BE FINISHED TO A SMOOTH SURFACE.

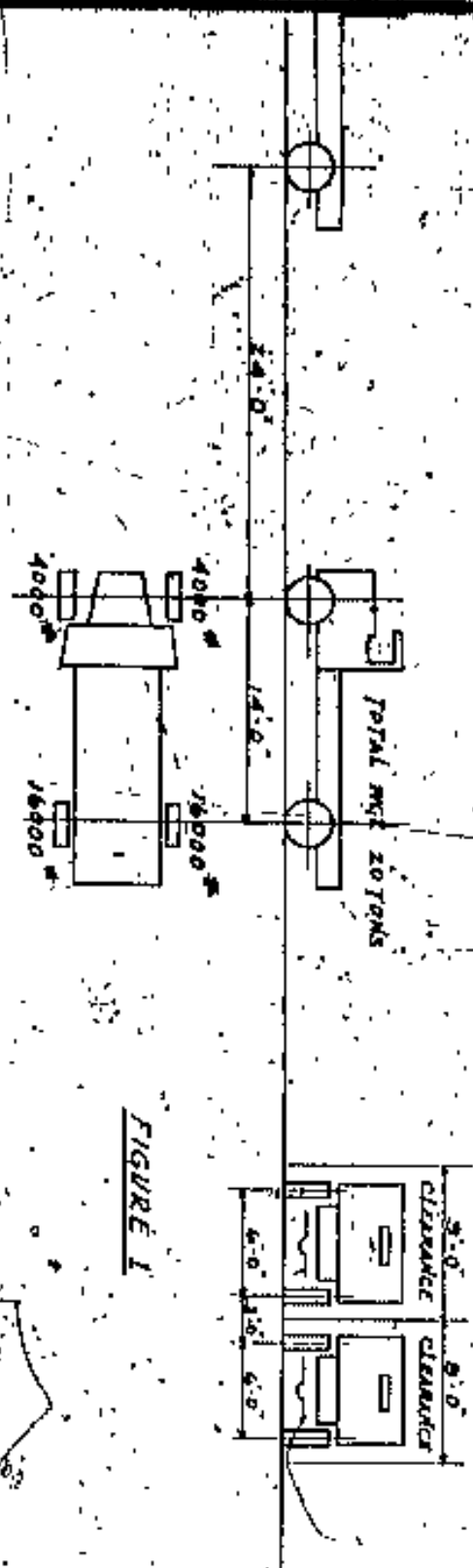
**STEEL**  
 ALL STEEL SHALL BE MADE OF STRUCTURAL STEEL AND SHALL BE FINISHED TO A SMOOTH SURFACE.  
 ALL STEEL SHALL BE MADE OF STRUCTURAL STEEL AND SHALL BE FINISHED TO A SMOOTH SURFACE.

**PAVING**  
 ALL PAVING SHALL BE MADE OF PORTLAND CEMENT CONCRETE WITH 4% AGGREGATE AND SHALL BE FINISHED TO A SMOOTH SURFACE.  
 ALL PAVING SHALL BE MADE OF PORTLAND CEMENT CONCRETE WITH 4% AGGREGATE AND SHALL BE FINISHED TO A SMOOTH SURFACE.

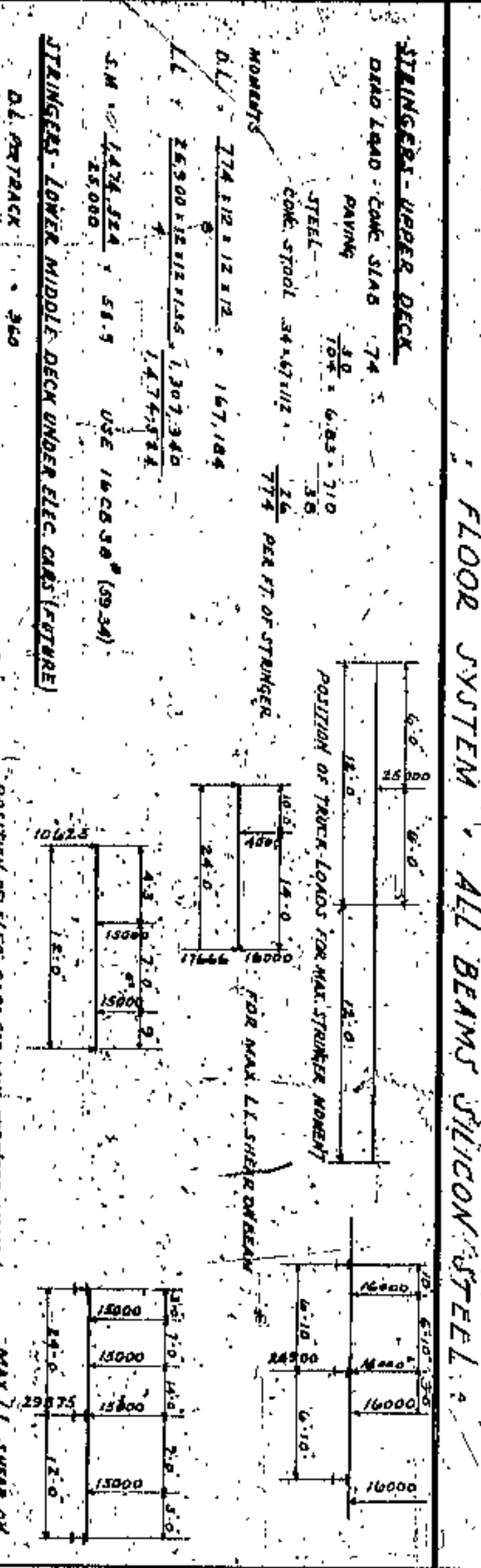
**LOADING LINE LOAD**  
 THE ROADWAY SLAB SHALL BE DESIGNED TO CARRY 20 TON TRUCK WITH 50% IMPACT DISTRIBUTED ACCORDING TO THE AASHTO SPECIFICATIONS FOR HIGHWAY BRIDGES. THE HIGHWAY TRUCKS SHALL BE DESIGNED FOR 20 TON TRUCKS WITH 50% IMPACT. THE ROADWAY SHALL BE DESIGNED TO CARRY 20 TON TRUCKS WITH 50% IMPACT. THE ROADWAY SHALL BE DESIGNED TO CARRY 20 TON TRUCKS WITH 50% IMPACT.

**RAILWAY**  
 THE TRACKS CARRIED BY THE BRIDGE SHALL BE AS DESIGNED TO CARRY 70 TON ELECTRIC CARS WITH 60% IMPACT AND WITH THE FLOOR BEAMS AND THEIR IMMEDIATE SUPPORTS SHALL BE DESIGNED FOR THE SAME LOAD WITH 50% IMPACT. THE TRACKS CARRIED BY THE BRIDGE SHALL BE AS DESIGNED TO CARRY 70 TON ELECTRIC CARS WITH 60% IMPACT AND WITH THE FLOOR BEAMS AND THEIR IMMEDIATE SUPPORTS SHALL BE DESIGNED FOR THE SAME LOAD WITH 50% IMPACT.

**RAILINGS**  
 ALL RAILINGS SHALL BE DESIGNED TO CARRY A VERTICAL LOAD OF 100 PER LINEAL FT. AND A HORIZONTAL LOAD OF 50 PER LINEAL FT.



FLOOR SYSTEM - ALL BEAMS STEEL-CONCRETE



**STEEL**  
 D.L. 12.1 x 12.1 x 12 561.60  
 L.L. 10.5 x 12.1 x 12 521.70  
 PAVING 100 100.00  
 TOTAL 1127.30

**CONCRETE**  
 D.L. 12.1 x 12.1 x 12 561.60  
 L.L. 10.5 x 12.1 x 12 521.70  
 PAVING 100 100.00  
 TOTAL 1127.30

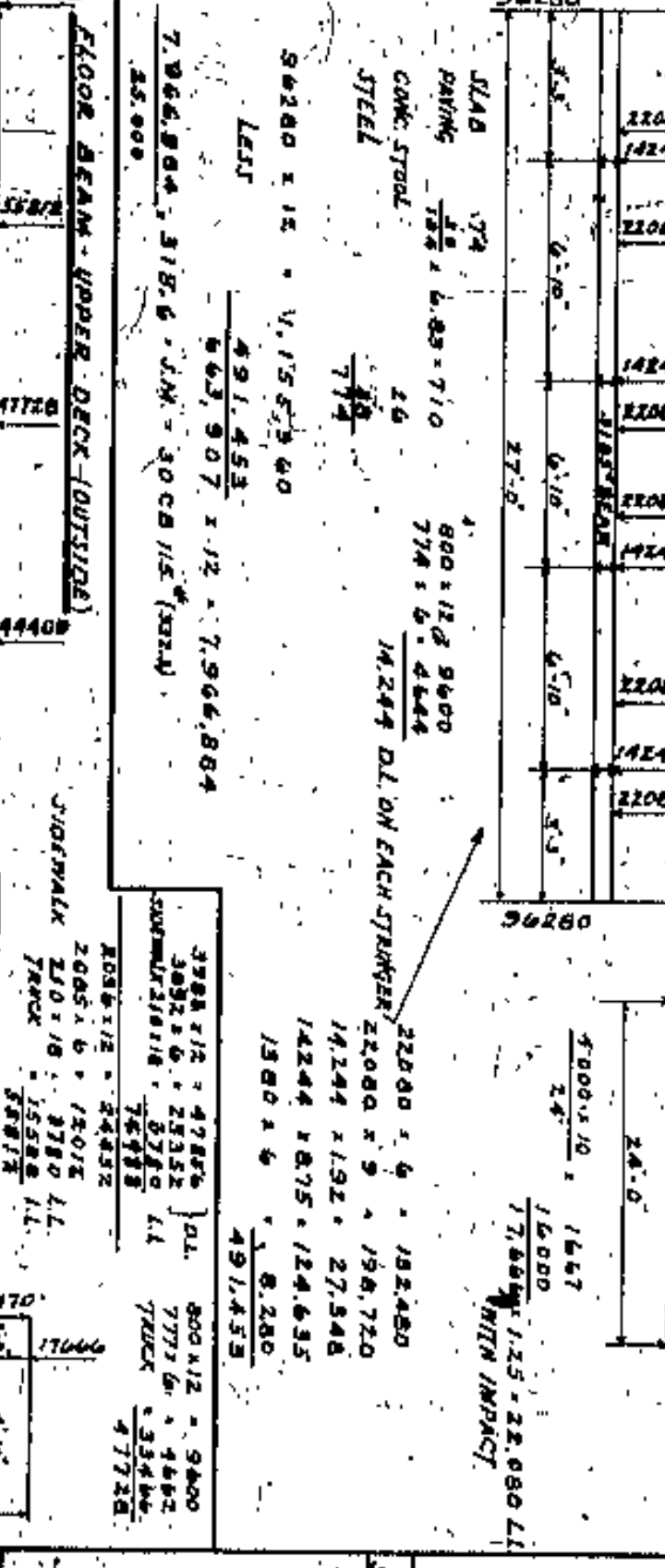
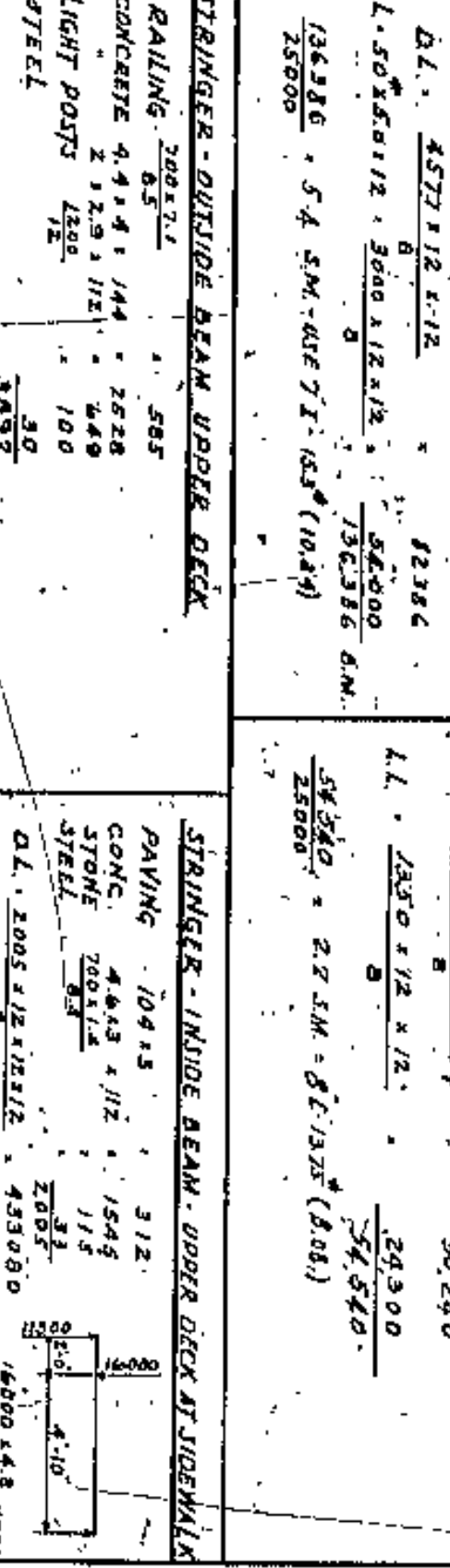
FLOOR SYSTEM (continued)

**STEEL**  
 D.L. 12.1 x 12.1 x 12 561.60  
 L.L. 10.5 x 12.1 x 12 521.70  
 PAVING 100 100.00  
 TOTAL 1127.30

**CONCRETE**  
 D.L. 12.1 x 12.1 x 12 561.60  
 L.L. 10.5 x 12.1 x 12 521.70  
 PAVING 100 100.00  
 TOTAL 1127.30

**STEEL**  
 D.L. 12.1 x 12.1 x 12 561.60  
 L.L. 10.5 x 12.1 x 12 521.70  
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 TOTAL 1127.30

**CONCRETE**  
 D.L. 12.1 x 12.1 x 12 561.60  
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 L.L. 10.5 x 12.1 x 12 521.70  
 PAVING 100 100.00  
 TOTAL 1127.30

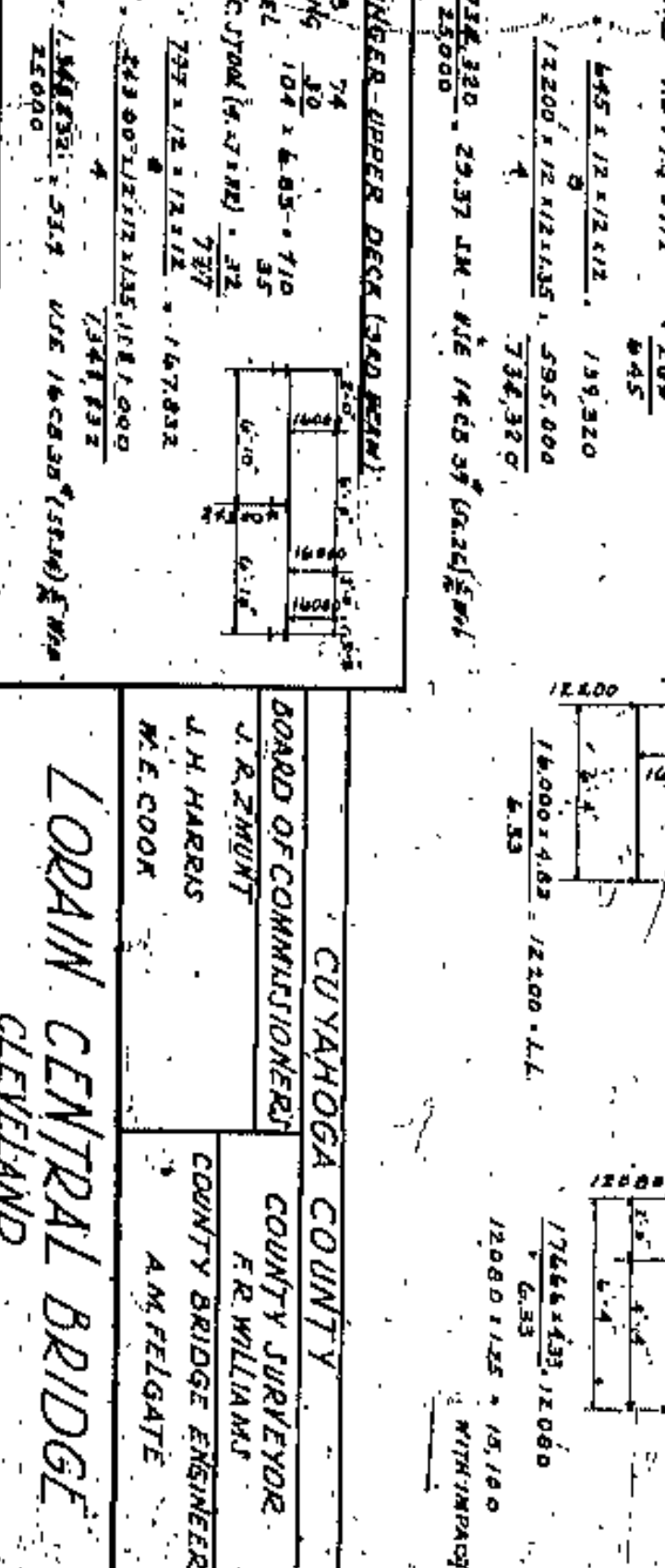
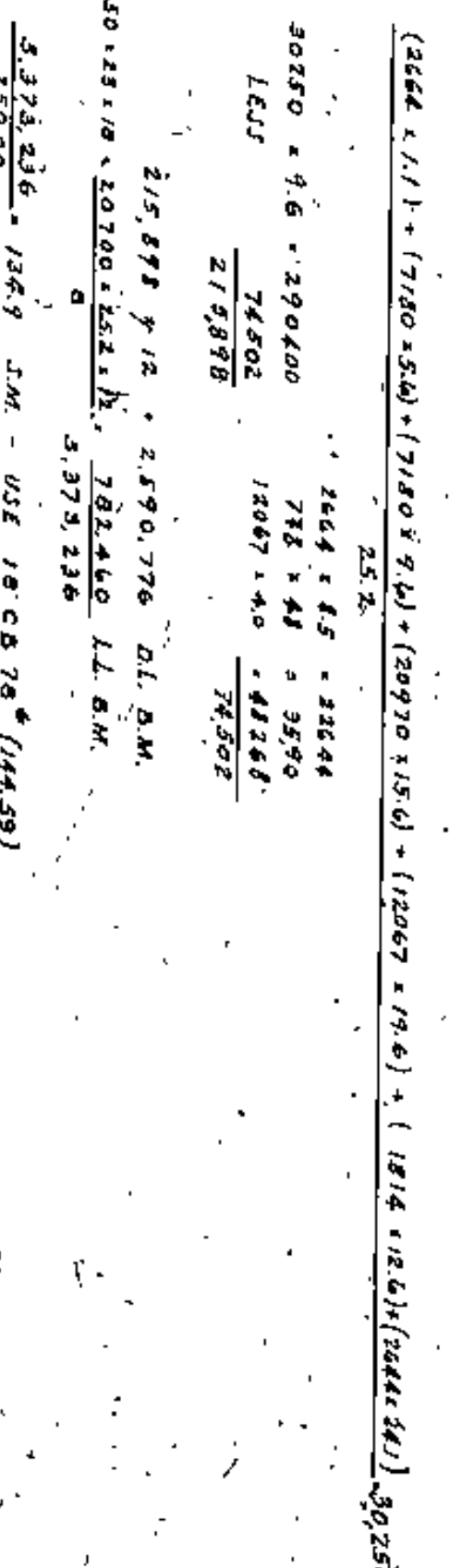
FLOOR SYSTEM (continued)

**STEEL**  
 D.L. 12.1 x 12.1 x 12 561.60  
 L.L. 10.5 x 12.1 x 12 521.70  
 PAVING 100 100.00  
 TOTAL 1127.30

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 L.L. 10.5 x 12.1 x 12 521.70  
 PAVING 100 100.00  
 TOTAL 1127.30

**APPROVED BY**  
 [Signature]  
 [Signature]

**DATA SHEET - FLOOR BEAMS & STRINGERS EAST Pylon TO WEST Pylon**

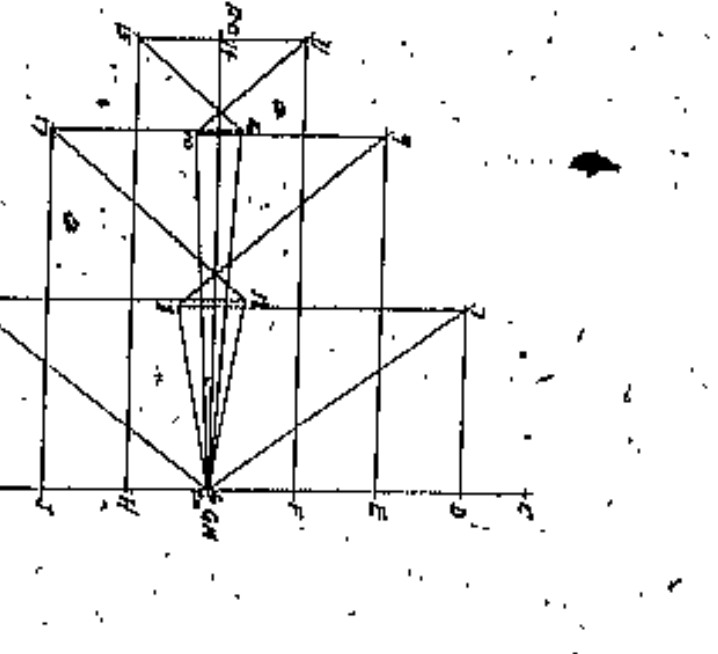
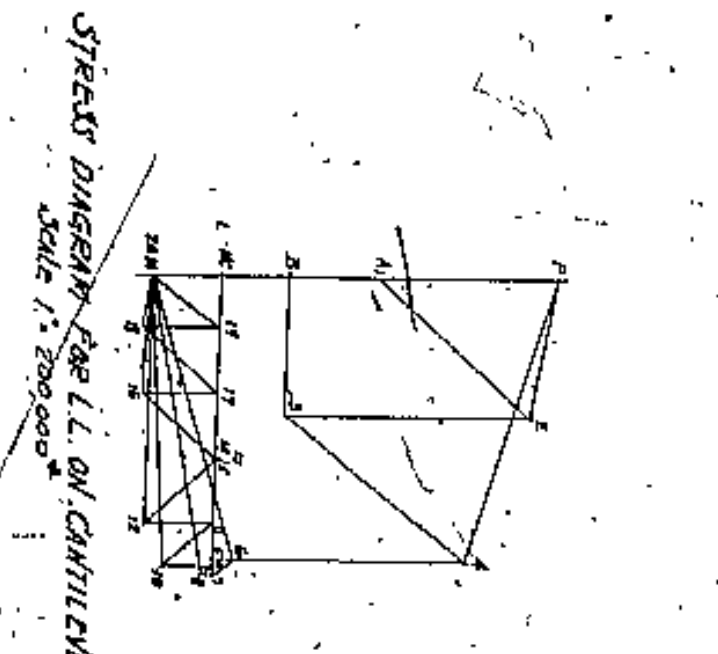
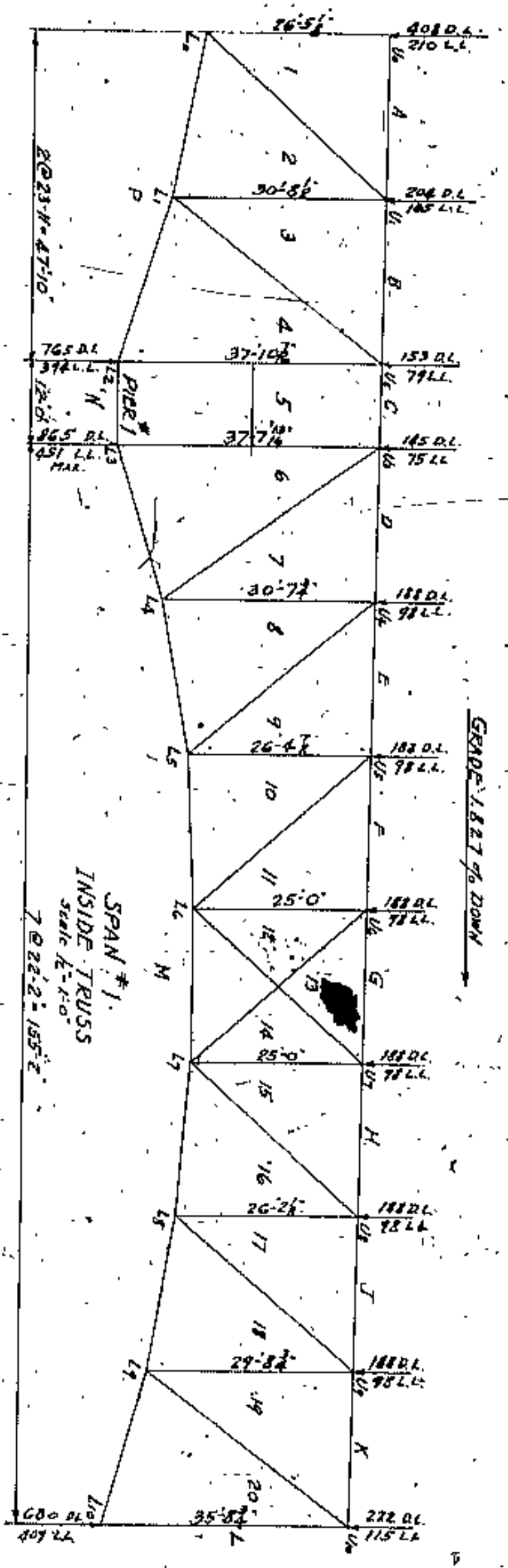
**CUYAHOGA COUNTY**  
 COUNTY SURVEYOR  
 COUNTY BRIDGE ENGINEER  
 AMFELGATE

**LORAIN CENTRAL BRIDGE**  
 CLEVELAND



Member	Length	INSIDE TRUSS											
		U1U2	U2U3	U3U4	U4U5	U5U6	U6U7	U7U8	U8U9	U9U10	U10U11	U11U12	
U1U2	10.00	0	0	0	0	0	0	0	0	0	0	0	
U2U3	10.00	0	0	0	0	0	0	0	0	0	0	0	
U3U4	10.00	0	0	0	0	0	0	0	0	0	0	0	
U4U5	10.00	0	0	0	0	0	0	0	0	0	0	0	
U5U6	10.00	0	0	0	0	0	0	0	0	0	0	0	
U6U7	10.00	0	0	0	0	0	0	0	0	0	0	0	
U7U8	10.00	0	0	0	0	0	0	0	0	0	0	0	
U8U9	10.00	0	0	0	0	0	0	0	0	0	0	0	
U9U10	10.00	0	0	0	0	0	0	0	0	0	0	0	
U10U11	10.00	0	0	0	0	0	0	0	0	0	0	0	
U11U12	10.00	0	0	0	0	0	0	0	0	0	0	0	

Member	Length	OUTSIDE TRUSS											
		U1U2	U2U3	U3U4	U4U5	U5U6	U6U7	U7U8	U8U9	U9U10	U10U11	U11U12	
U1U2	10.00	0	0	0	0	0	0	0	0	0	0	0	
U2U3	10.00	0	0	0	0	0	0	0	0	0	0	0	
U3U4	10.00	0	0	0	0	0	0	0	0	0	0	0	
U4U5	10.00	0	0	0	0	0	0	0	0	0	0	0	
U5U6	10.00	0	0	0	0	0	0	0	0	0	0	0	
U6U7	10.00	0	0	0	0	0	0	0	0	0	0	0	
U7U8	10.00	0	0	0	0	0	0	0	0	0	0	0	
U8U9	10.00	0	0	0	0	0	0	0	0	0	0	0	
U9U10	10.00	0	0	0	0	0	0	0	0	0	0	0	
U10U11	10.00	0	0	0	0	0	0	0	0	0	0	0	
U11U12	10.00	0	0	0	0	0	0	0	0	0	0	0	



STRESS DIAGRAM FOR L.L. ON INSIDE TRUSS  
SCALE 1" = 314,000

APPROVED BY

*Walter S. Cook*  
 CO. ENGINEER  
 WILBUR WATSON AND FRANK WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SURVEYOR
J. R. ZIMM	F. R. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. E. COOK	A. M. FELGATE
<b>LORAIN CENTRAL BRIDGE</b> CLEVELAND	
SPAN #1	
STRESSES & SIZES OF TRUSS MEMBERS	
SCALE	1" = 314,000
TITLE	WILBUR WATSON AND FRANK WALKER
NO.	4365
DATE	APRIL 1910
BY	W. S. COOK
CHECKED	A. M. FELGATE
DATE	

























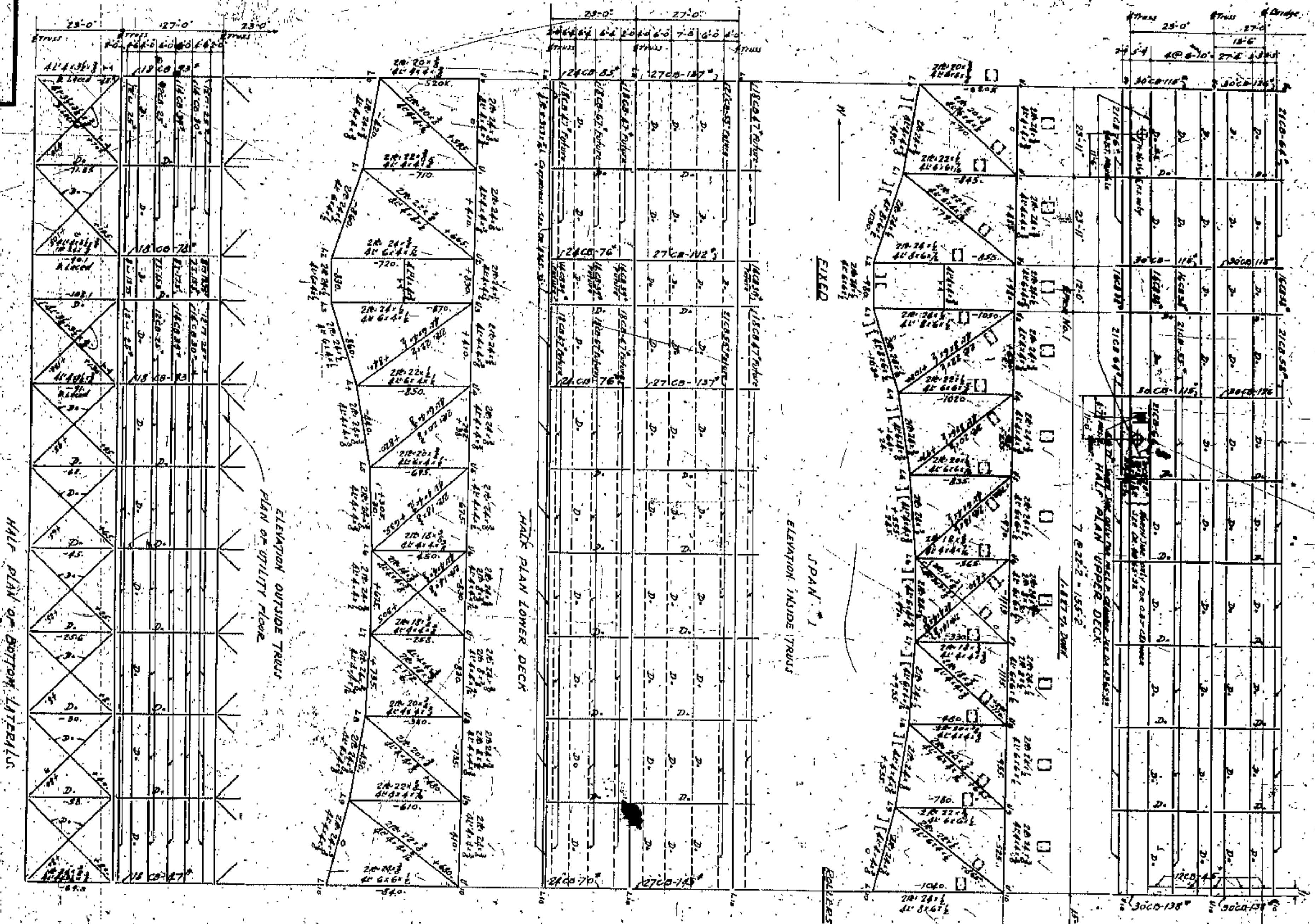












HALF PLAN OF BOTTOM TRUSSES

ELEVATION OUTSIDE TRUSS  
PLAN OF UPPER FLOOR

HALF PLAN LOWER DECK

ELEVATION INSIDE TRUSS  
SPAN #1

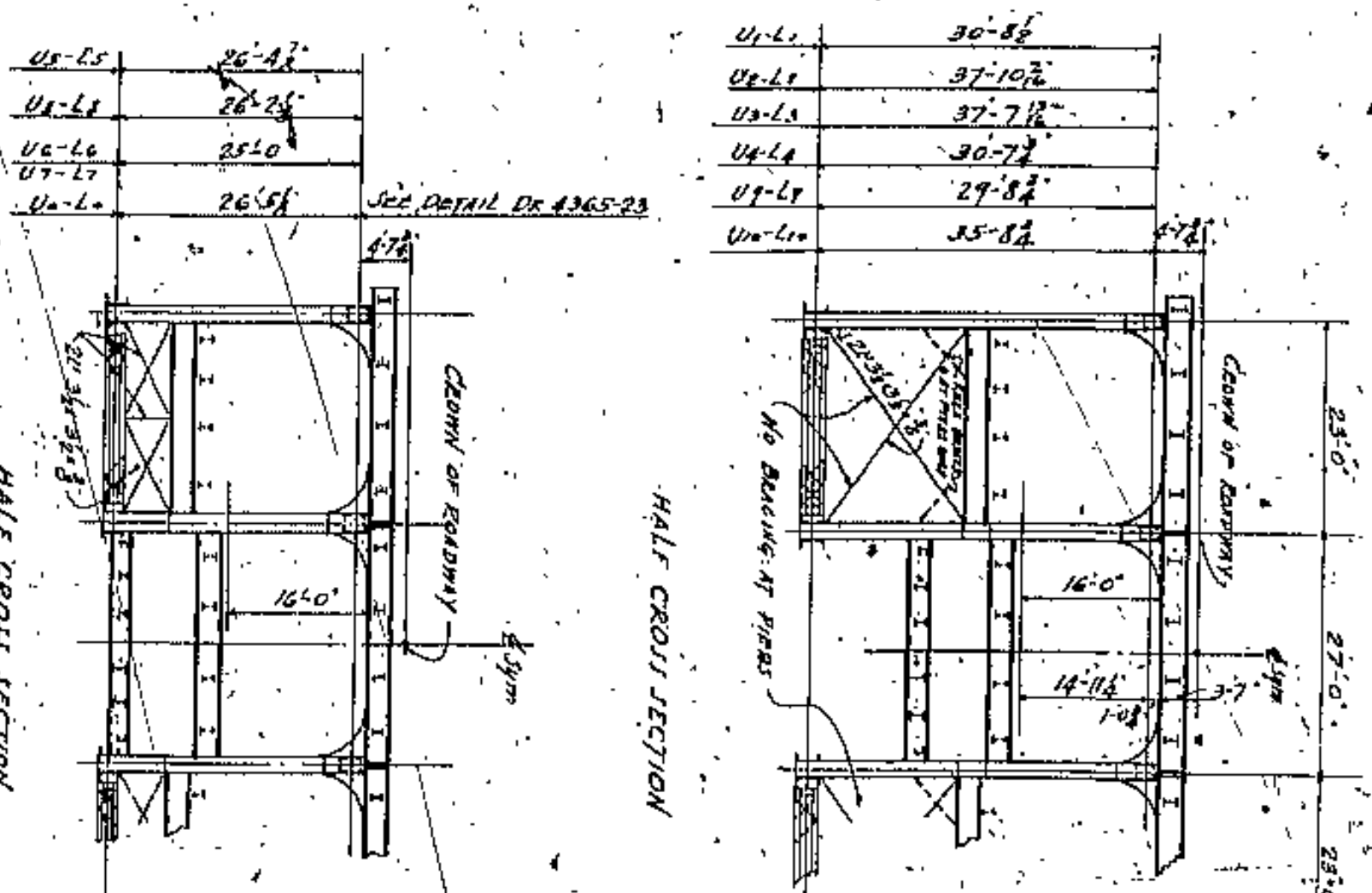
HALF PLAN UPPER DECK

APPROVED BY

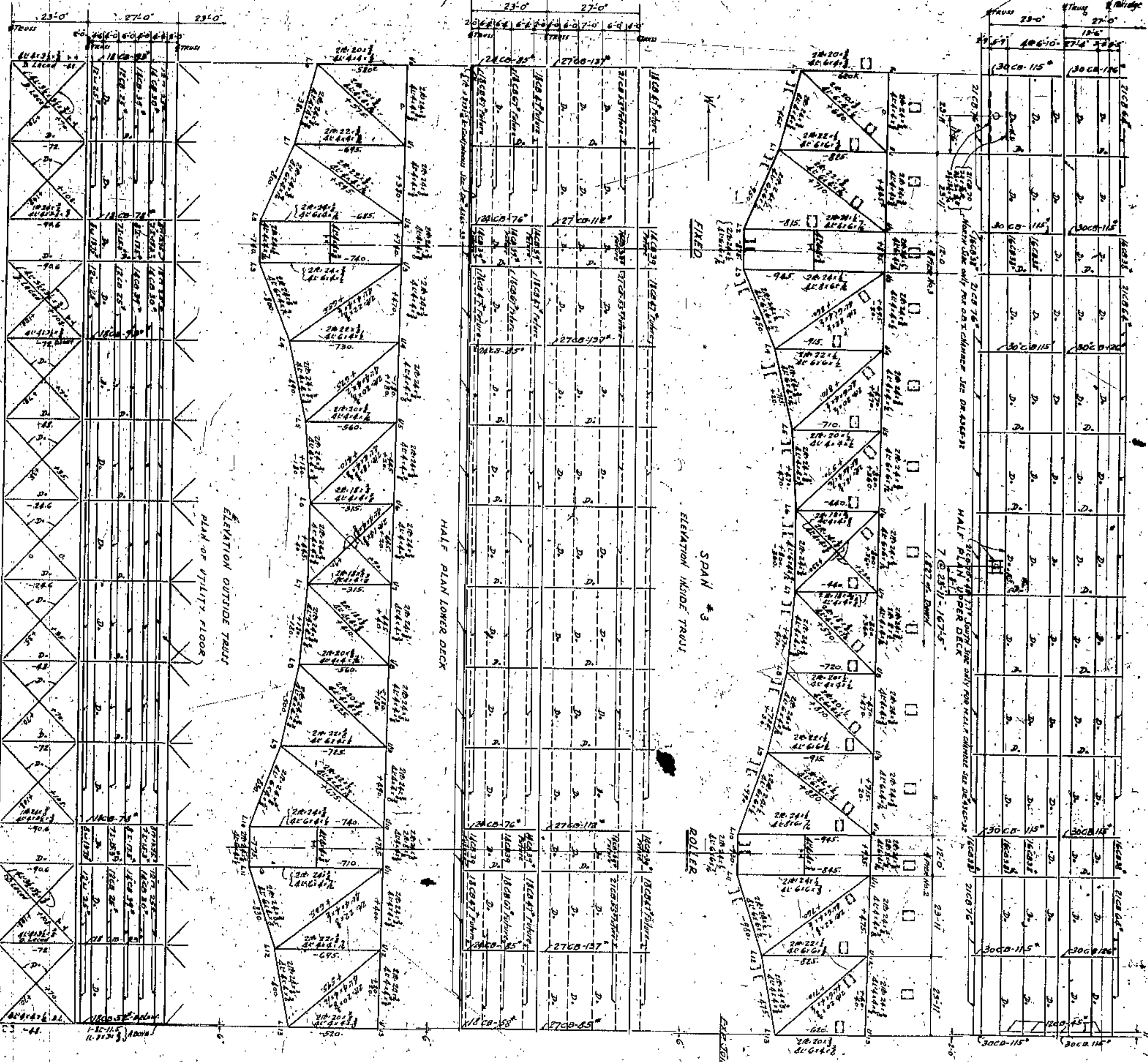
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*[Signature]*  
*[Signature]*

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SUPERVISOR
J. R. ZIMONT	F. R. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. E. COOK	A. M. FLEGGATE
<b>LORAIN CENTRAL BRIDGE</b>	
CLEVELAND	
SPAN #1	
TRUSS-FLOOR SYSTEM - BRACING	
DESIGNED BY	WILBUR NATION AND FARNLEKER
CONSTRUCTED BY	CONSTRUCTING ENGINEERS AND ARCHITECTS
NO. 4365	13

TRUSSES & FLOOR SYSTEM SILICO STEEL  
 EXCEPT AS NOTED IN DETAIL  
 ALL LITTEL DETAILS, WITH DETAILS AND  
 THEY BEING CASED UPZEL







HALF PLAN OF BOTTOM TRUSS

ELEVATION OUTSIDE TRUSS

HALF PLAN LOWER DECK

ELEVATION INSIDE TRUSS

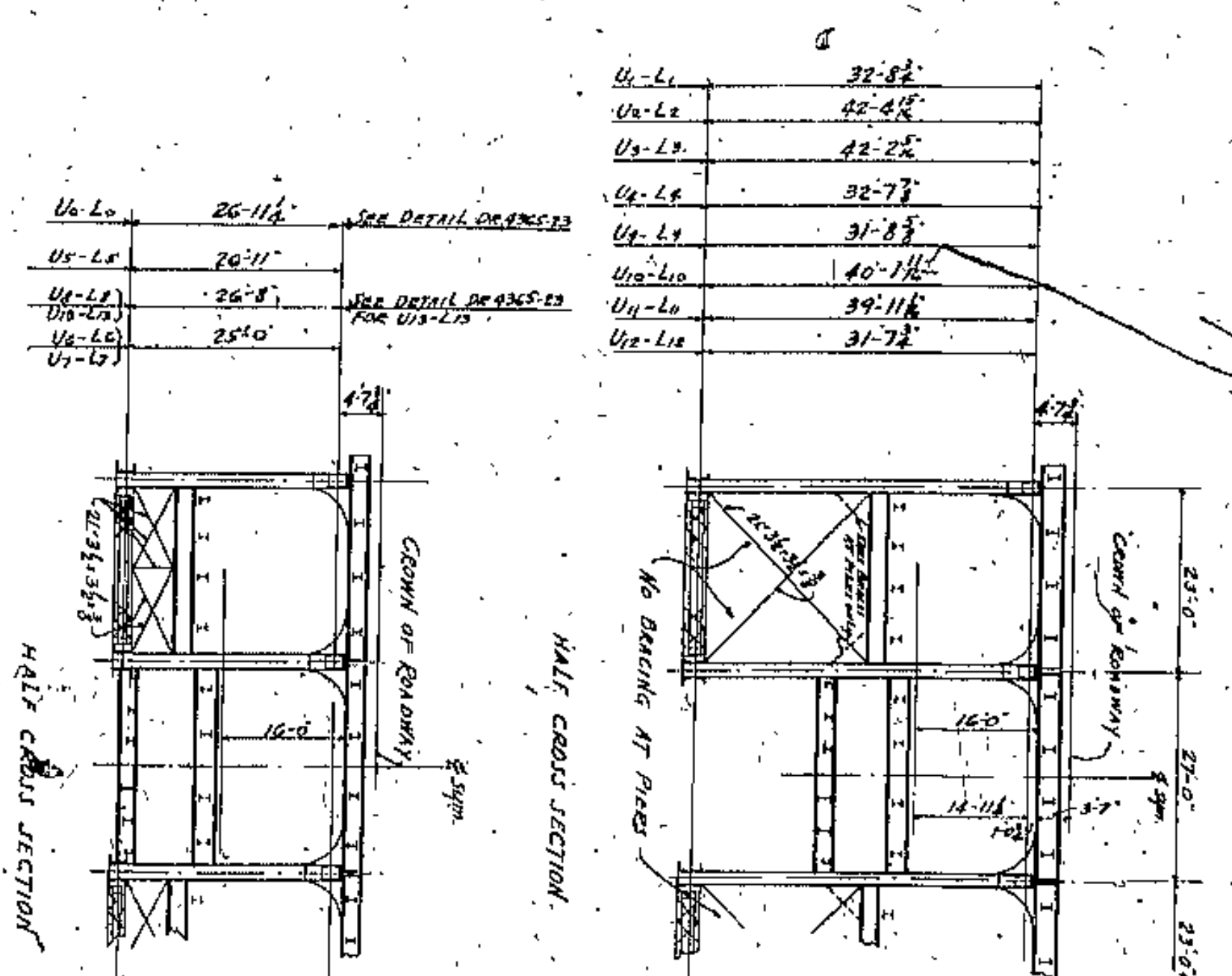
ROLLER

FIXED

APPROVED BY  
*[Signature]*  
 CONSULTING ENGINEER AND ARCHITECT  
 WILBUR NATHAN AND F. WALKER  
 CLEVELAND

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SURVEYOR
J. R. MANN	F. R. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. E. COOK	A. M. PELICATE
<b>LORAIN CENTRAL BRIDGE</b>	
CLEVELAND	
SPAN #3	
TRUSS - FLOOR SYSTEM BRACING	
WILBUR NATHAN AND F. WALKER	
CONSULTING ENGINEERS AND ARCHITECTS	
CLEVELAND	
DATE	REVISION

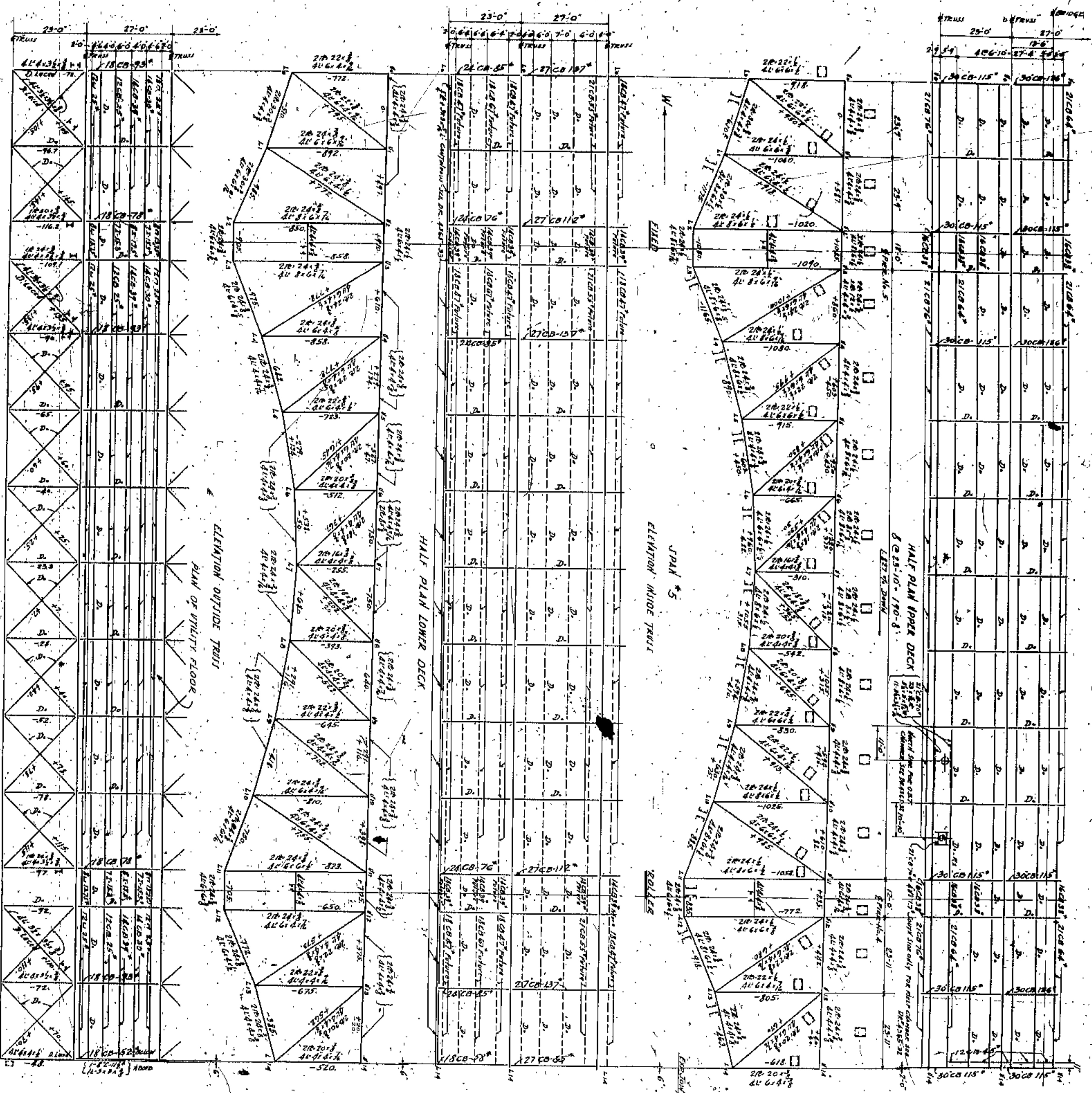
TRUSS & FLOOR SYSTEM SILICON STEEL  
 EXCEPT AS NOTED IN DETAIL  
 ALL LITZEL BRACING, MISC. BRACES AND  
 CHY. BRACING GREEN STEEL











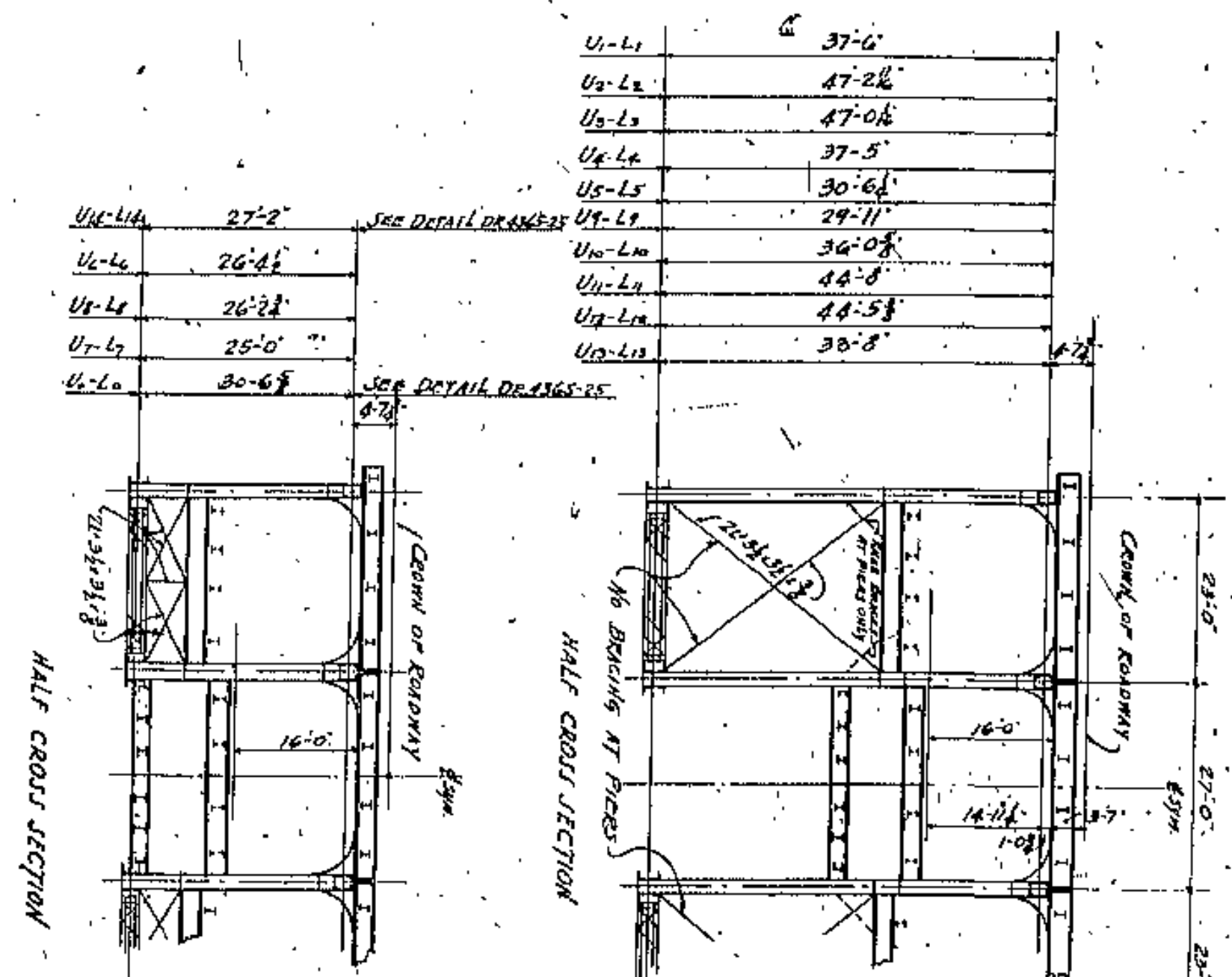
HALF PLAN OF DOTTON LATERALS

ELEVATION OUTSIDE TRUSS

HALF PLAN LOWER DECK

ELEVATION INSIDE TRUSS

HALF PLAN UPPER DECK



HALF CROSS SECTION

HALF CROSS SECTION

U-1	37'-0"
U-2	47'-2"
U-3	47'-0"
U-4	37'-5"
U-5	30'-6"
U-6	29'-11"
U-7	36'-0"
U-8	44'-8"
U-9	44'-5"
U-10	38'-8"
U-11	
U-12	
U-13	

APPROVED BY

USE OF 24x48 FOR DETAIL AT CLIPWORK JOINTS

CO. ENGINEER

CO. ARCHITECT

CO. SURVEYOR

CO. CIVIL ENGINEER

CO. ELECTRICAL ENGINEER

CO. MECHANICAL ENGINEER

CO. METALLURGY

CO. CHEMISTRY

CO. BIOLOGY

CO. AGRICULTURE

CO. MINING

CO. FORESTRY

CO. FISHERY

CO. MARINE ENGINEERING

CO. AERONAUTICAL ENGINEERING

CO. NAVAL ARCHITECTURE

CO. RAILROAD ENGINEERING

CO. SANITARY ENGINEERING

CO. INDUSTRIAL ENGINEERING

CO. CHEMICAL ENGINEERING

CO. METALLURGICAL ENGINEERING

CO. ELECTRICAL ENGINEERING

CO. MECHANICAL ENGINEERING

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CO. RAILROAD ENGINEERING

CO. SANITARY ENGINEERING

CO. INDUSTRIAL ENGINEERING

CO. CHEMICAL ENGINEERING

CO. METALLURGICAL ENGINEERING

CO. ELECTRICAL ENGINEERING

CO. MECHANICAL ENGINEERING

CO. METALLURGY

CO. CHEMISTRY

CO. BIOLOGY

CO. AGRICULTURE

CO. MINING

CO. FORESTRY

CO. FISHERY

CO. MARINE ENGINEERING

CO. AERONAUTICAL ENGINEERING

CO. NAVAL ARCHITECTURE

CO. RAILROAD ENGINEERING

CO. SANITARY ENGINEERING

CO. INDUSTRIAL ENGINEERING

CO. CHEMICAL ENGINEERING

CO. METALLURGICAL ENGINEERING

CO. ELECTRICAL ENGINEERING

CO. MECHANICAL ENGINEERING

CUYAHOGA COUNTY

BOARD OF COMMISSIONERS

COUNTY SHERIFF

J. R. ZIMMONT

J. H. HARRIS

M. E. COOK

COUNTY CLERK

COUNTY ENGINEER

A. M. FELGATE

LORAIN CENTRAL BRIDGE

CLEVELAND

SPAN # 5

TRUSS FLOOR SYSTEM BRACING

SCALE 1/4" = 1'-0"

WILBUR NATION AND F. WALKER

CONSULTING ENGINEERS AND ARCHITECTS

CLEVELAND

16

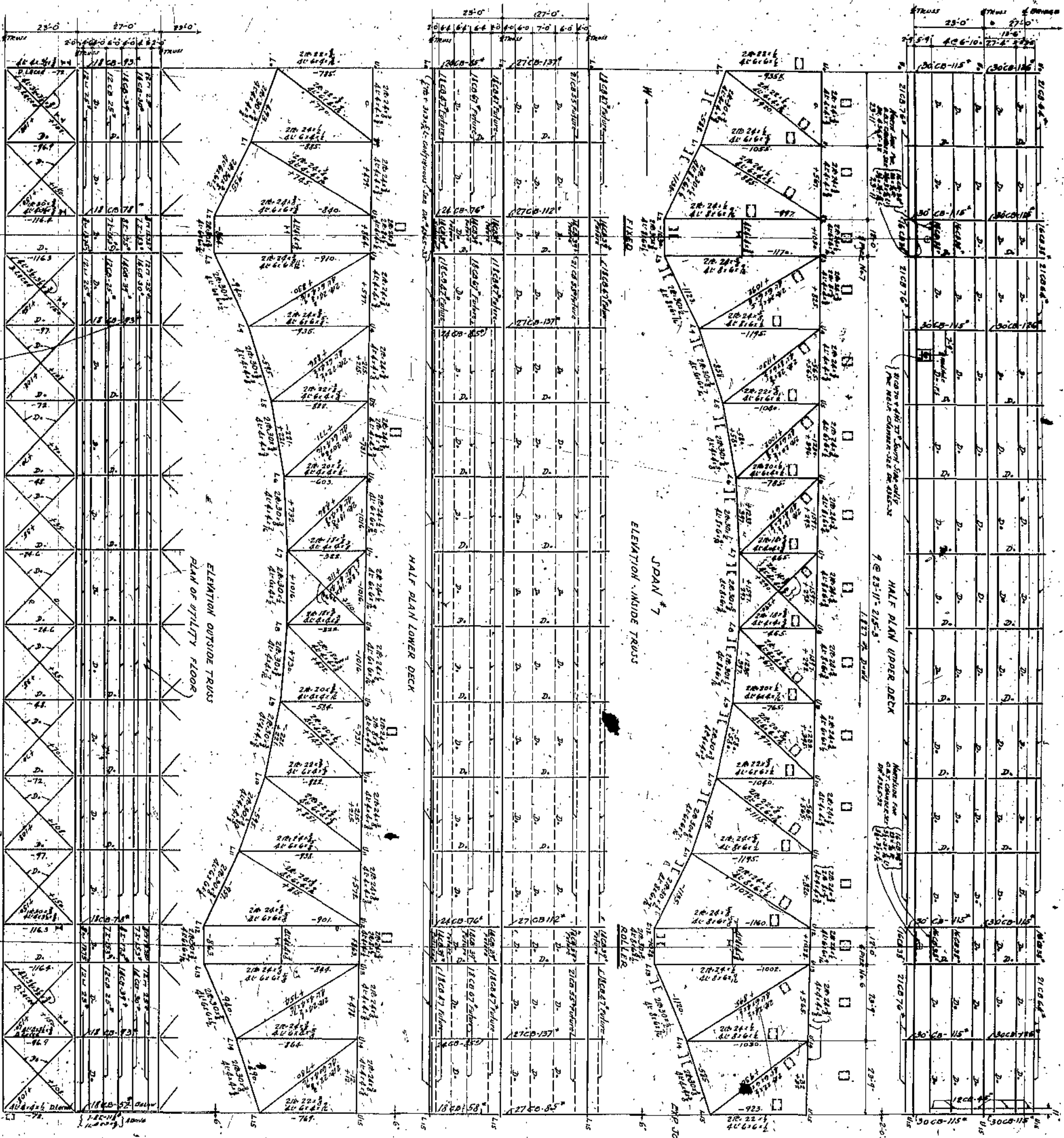
TRUSSES & FLOOR SYSTEM BRACING STEEL

CLASSED AS NOTED IN DETAIL

ALL LATERAL BRACING, KNEE BRACES AND

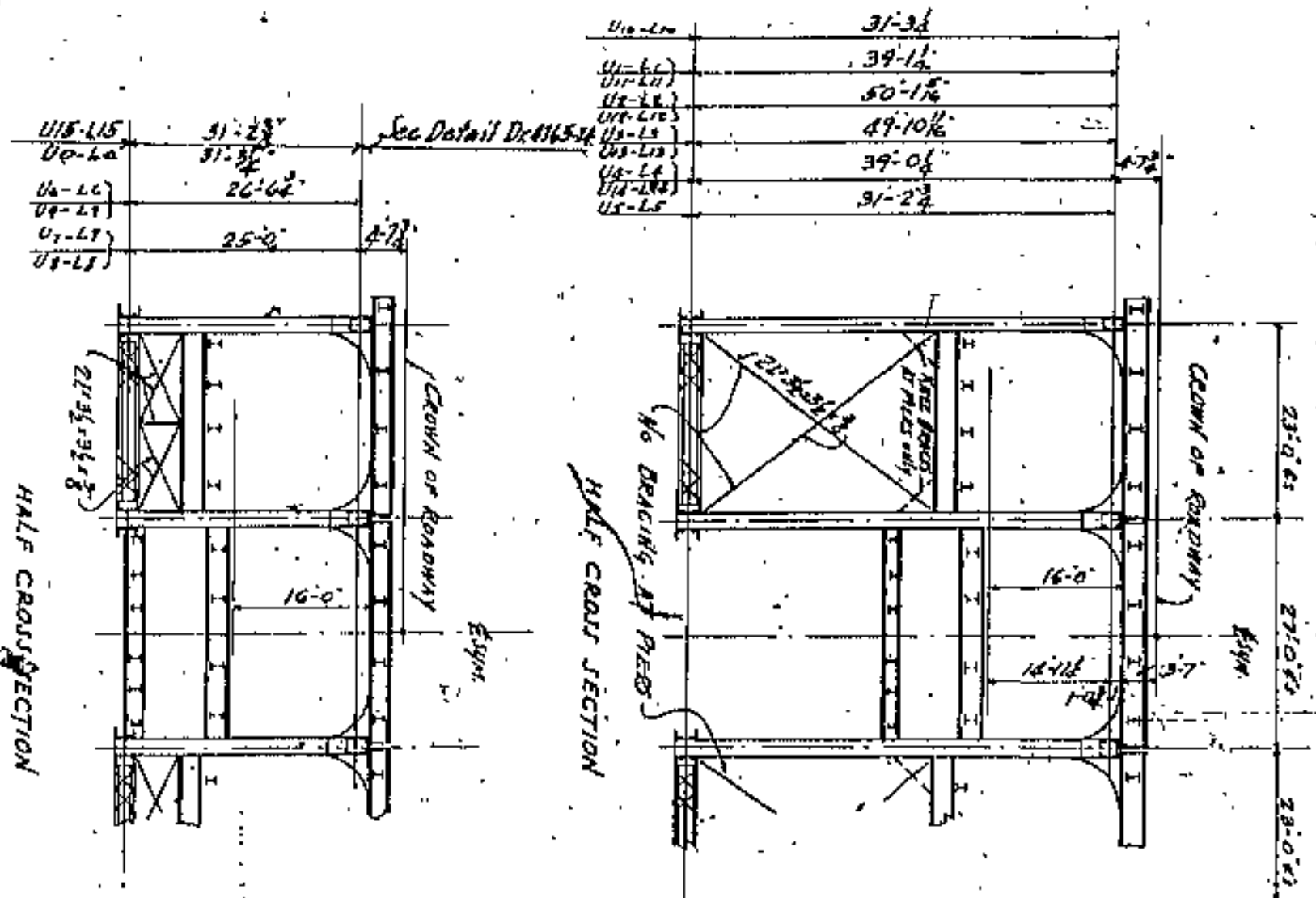
WAG BEAMS CARBON STEEL





TRUSSES & FLOOR SYSTEM SILICON STEEL  
 EXCEPT AS NOTED IN DETAIL  
 ALL LATERAL BRACING, KNEE BRACES AND  
 DIAPHRAGM BRACING CARBON STEEL

SEE DETAILS FOR  
 AT EXHIBITION JOINTS



APPROVED BY

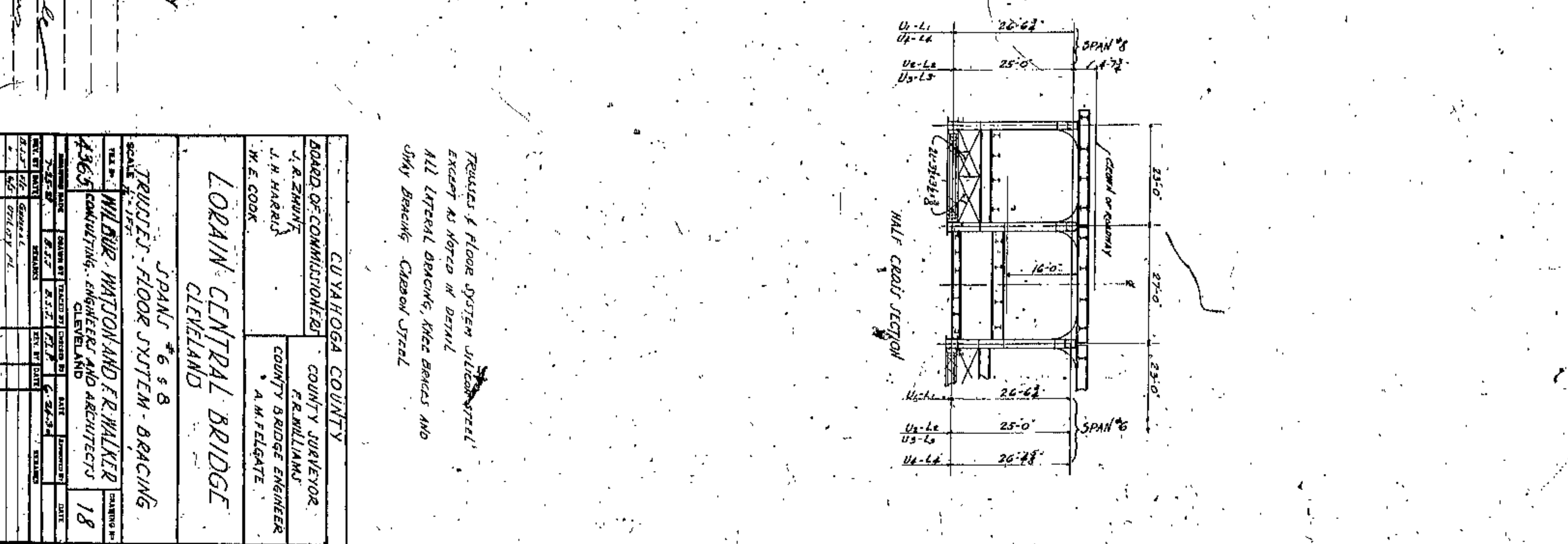
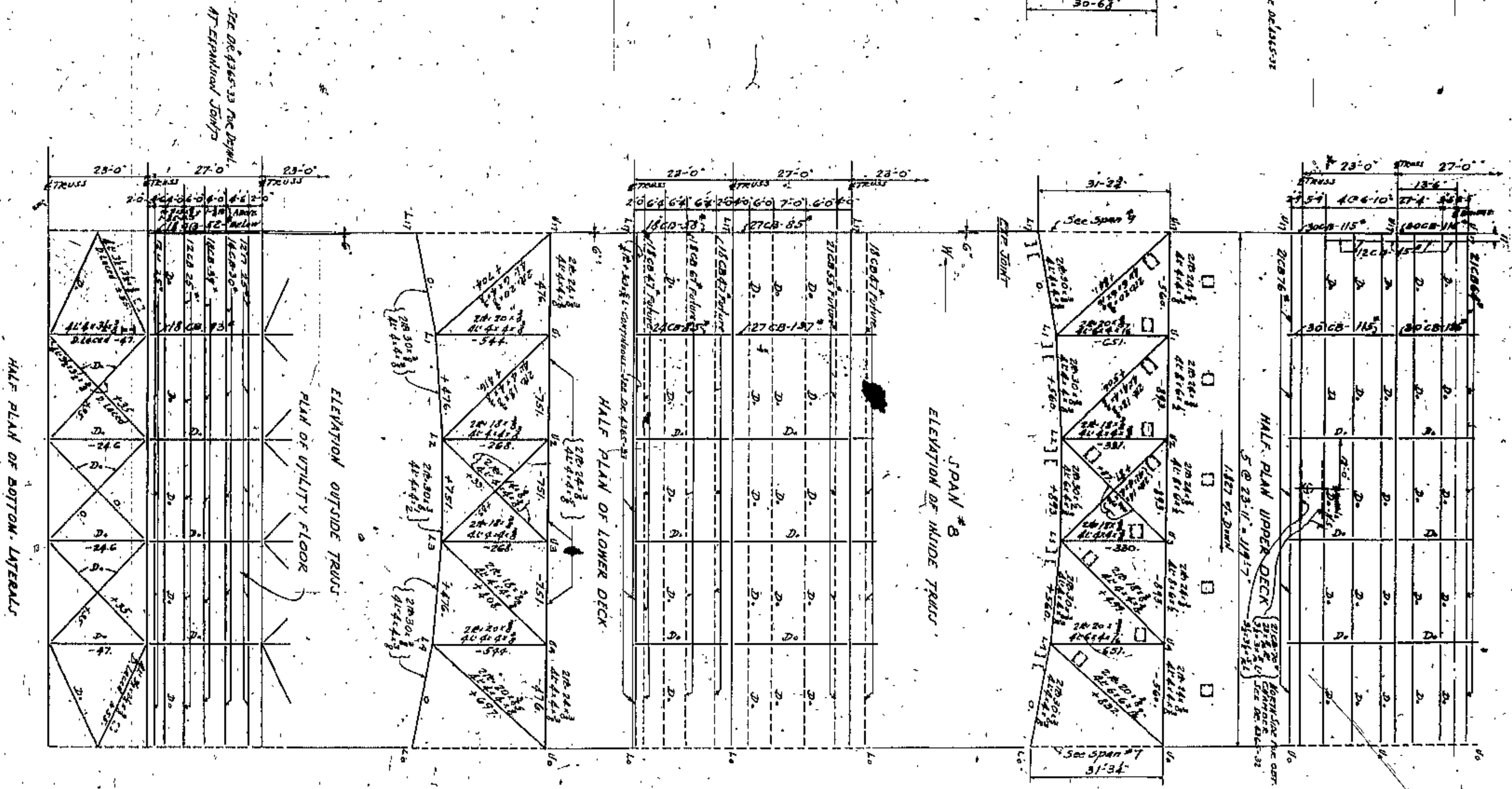
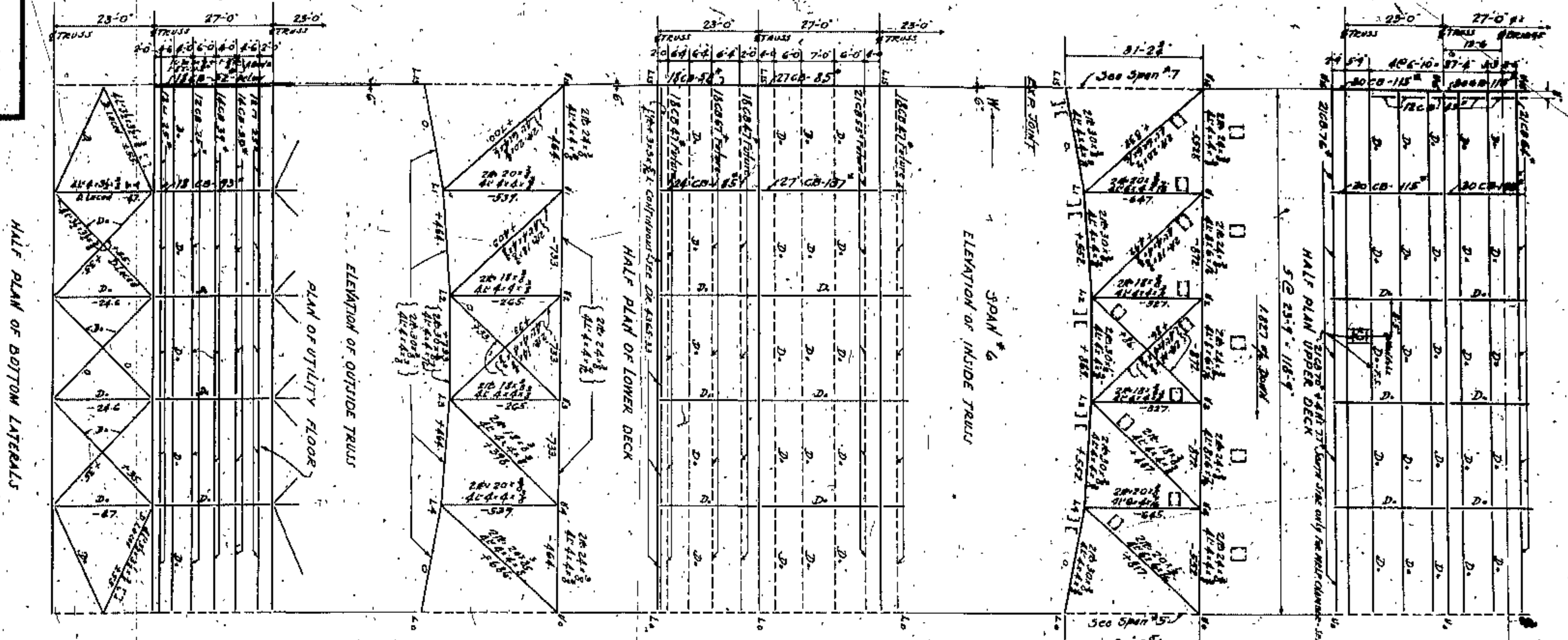
*[Signature]*  
 COUNTY ENGINEER  
 CUYAHOGA COUNTY

BOARD OF COMMISSIONERS  
 COUNTY SURVEYOR  
 J. R. ZIMMONT  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK  
 AM. FELGATE

TRUSSES - FLOOR SYSTEM - BRACING  
 WILBUR WATSON AND FARMER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 4365  
 17

NO.	DATE	REVISION
1	10-22-20	ISSUED
2	11-10-20	REVISED
3	11-10-20	REVISED
4	11-10-20	REVISED
5	11-10-20	REVISED
6	11-10-20	REVISED
7	11-10-20	REVISED
8	11-10-20	REVISED
9	11-10-20	REVISED
10	11-10-20	REVISED





APPROVED BY  
 [Signature]  
 [Signature]  
 [Signature]

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SURVEYOR  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. M. FELGATE  
 W. E. CODE

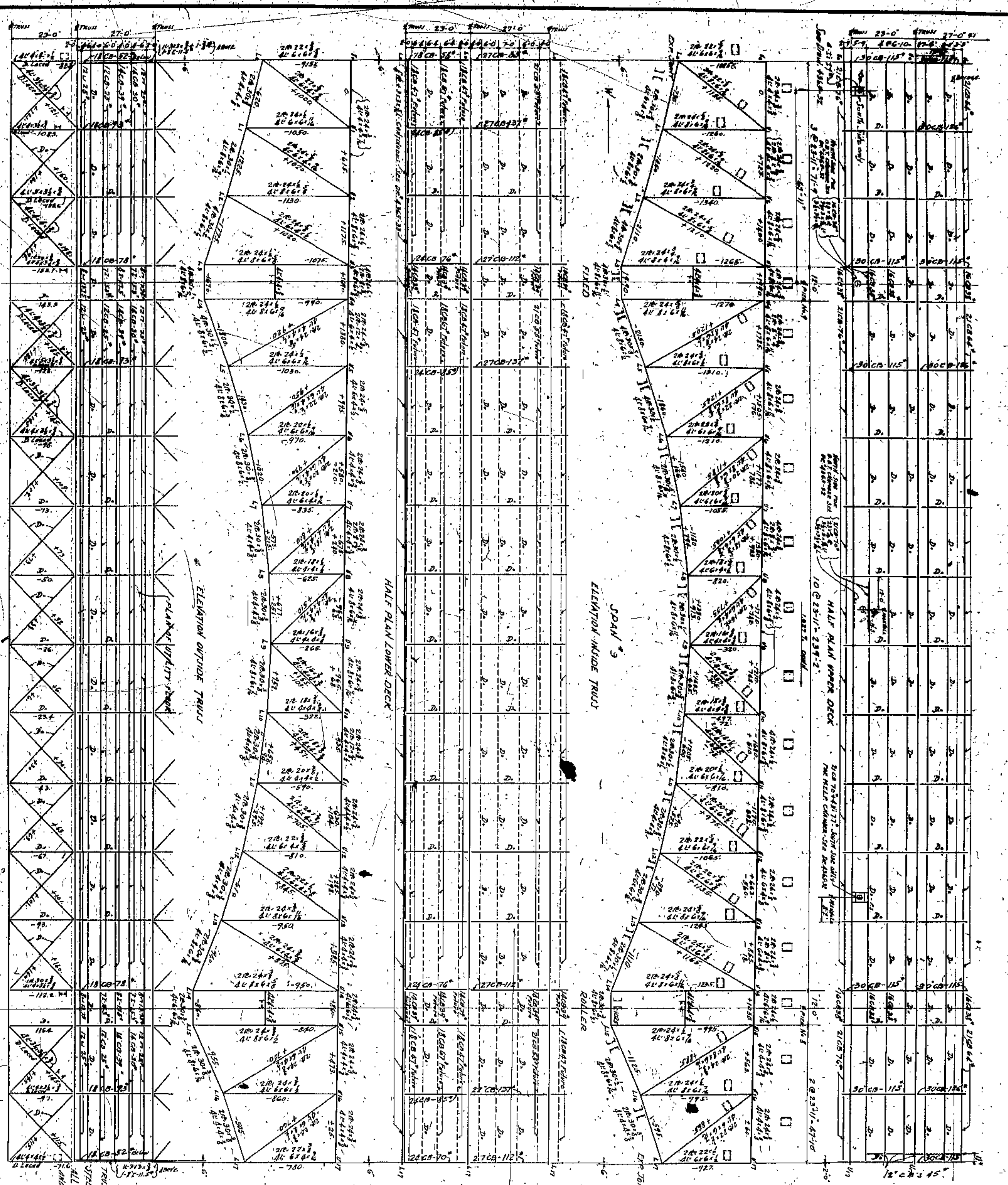
LORAIN CENTRAL BRIDGE  
 CLEVELAND

TRUSSES - FLOOR SYSTEM - BRACING  
 SPANS # 6 & 8  
 WILLIAMS, WATSON AND F. R. WALKER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND  
 DRAWING NO. 18

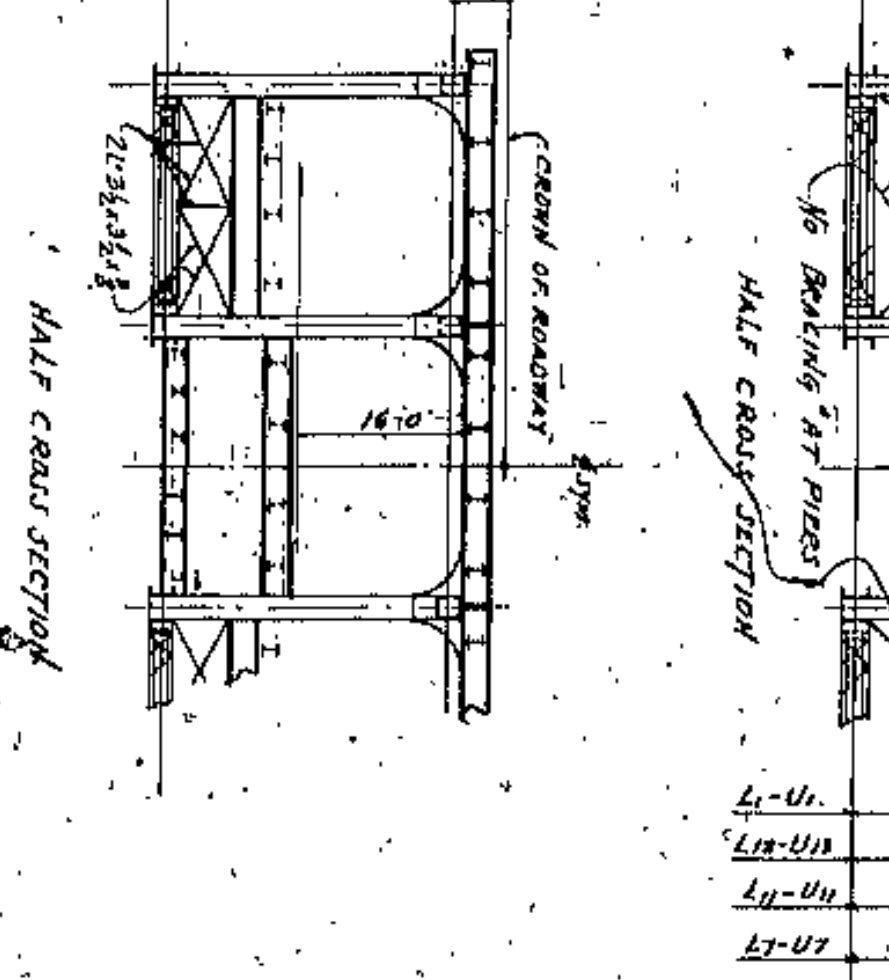
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2	10-2-27	AS SHOWN
3	10-2-27	AS SHOWN
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7	10-2-27	AS SHOWN
8	10-2-27	AS SHOWN
9	10-2-27	AS SHOWN
10	10-2-27	AS SHOWN

TRUSSES & FLOOR SYSTEM UTILIZED  
 EXCEPT AS NOTED IN DETAIL  
 ALL LATERAL BRACING, KITT BRACES AND  
 CHAIN BRACING CARBON STEEL





U7-U17	31'-22"	See DETAIL DECK BRACES	L5-U17	40'-11 1/2"
U6-U7	31'-22"	See DETAIL DECK BRACES	L5-U16	33'-11 1/2"
U6-U6	26'-0"		L18-U17	34'-0"
L10-U10	25'-0"		L8-U17	42'-5"
L7-U17			L16-U16	37'-0"



See DECK BRACES FOR DETAILS AT CONNECTION JOINTS

TRUSSES FLOOR SYSTEM STRONG STEEL EXCEPT AS NOTED IN DETAIL

ALL STEEL DESIGNING, SIZE DESIGN AND SHOP DRAWINGS CAPABLE STEEL

APPROVED BY

*[Signature]*

CO. COMM.

CUYAHOGA COUNTY

BOARD OF COMMISSIONERS

COUNTY SUPERVISOR

F. WILLIAMS

COUNTY BRIDGE ENGINEER

J.H. HARRIS

A.M. BELGATE

W.E. COOK

LORAIN CENTRAL BRIDGE

CLEVELAND

SPAN 9

TRUSSES FLOOR SYSTEM BRACING

WILBUR WATSON AND F.R. WALKER

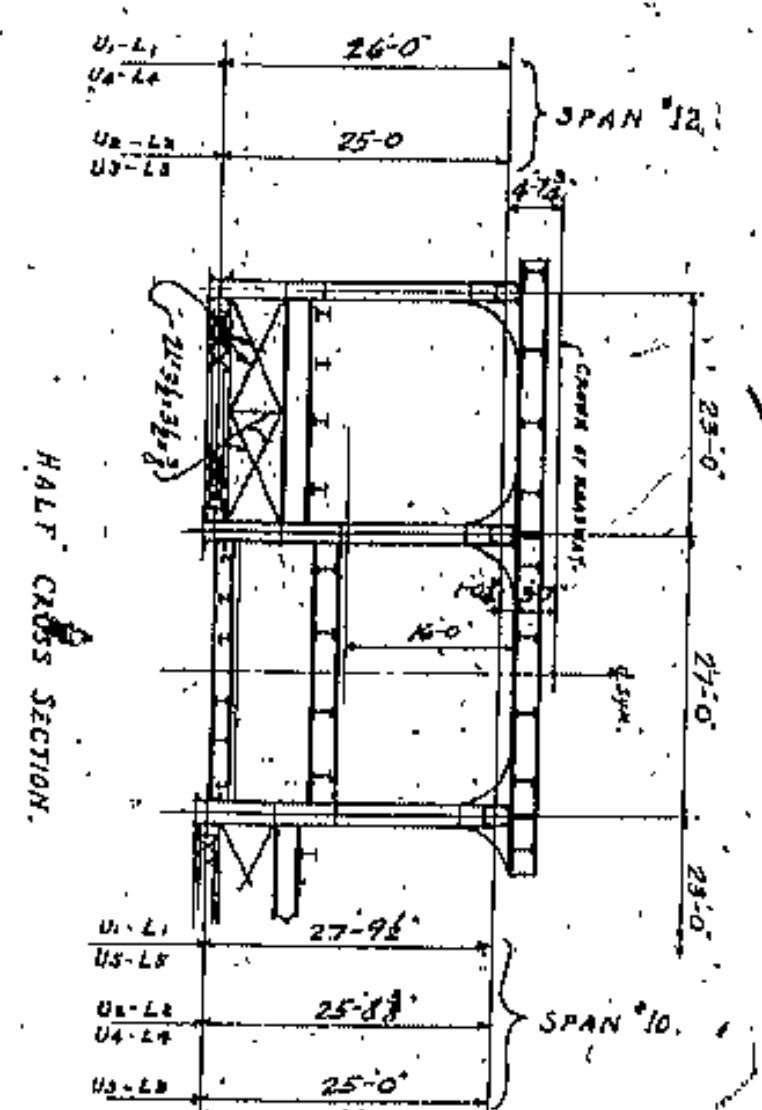
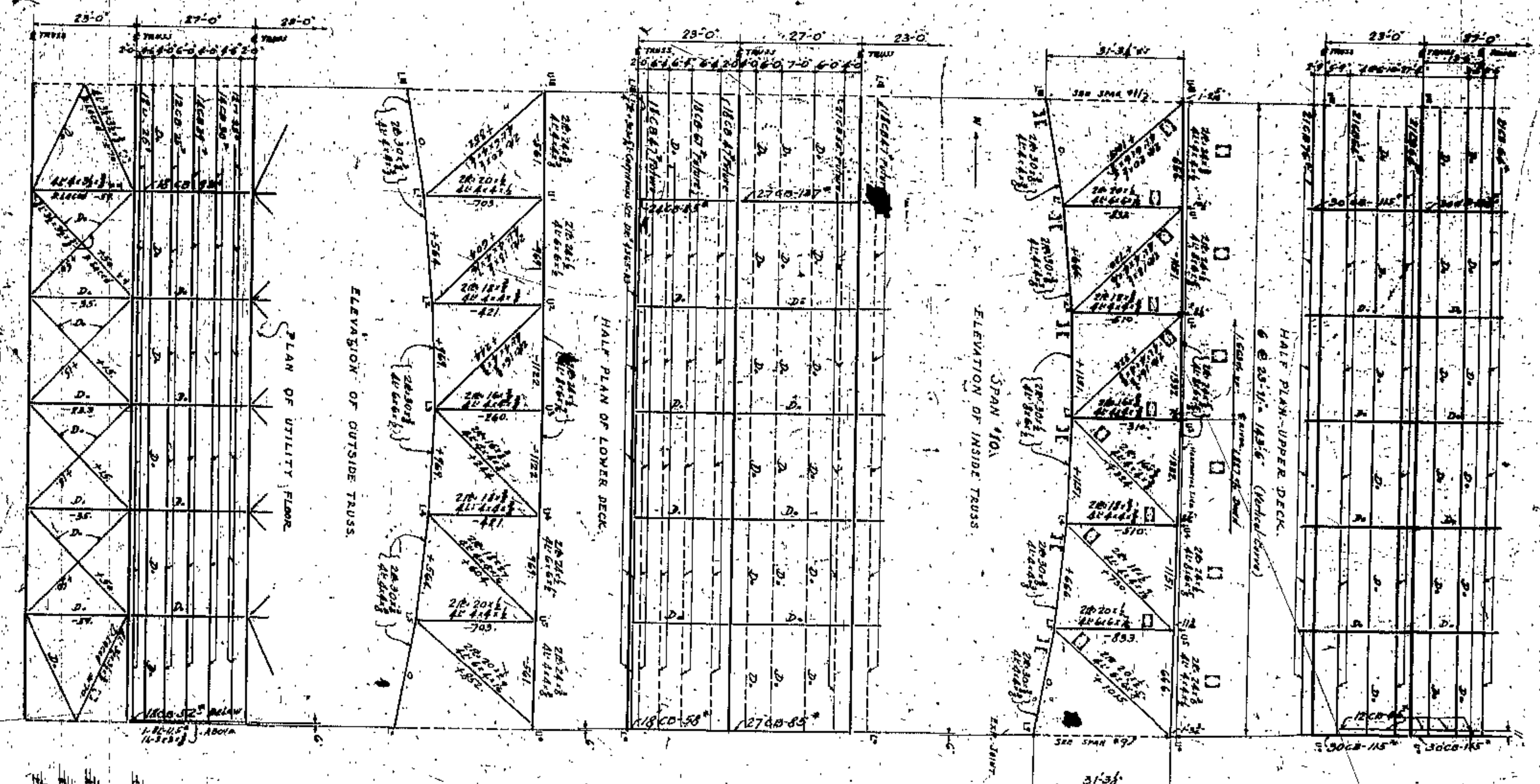
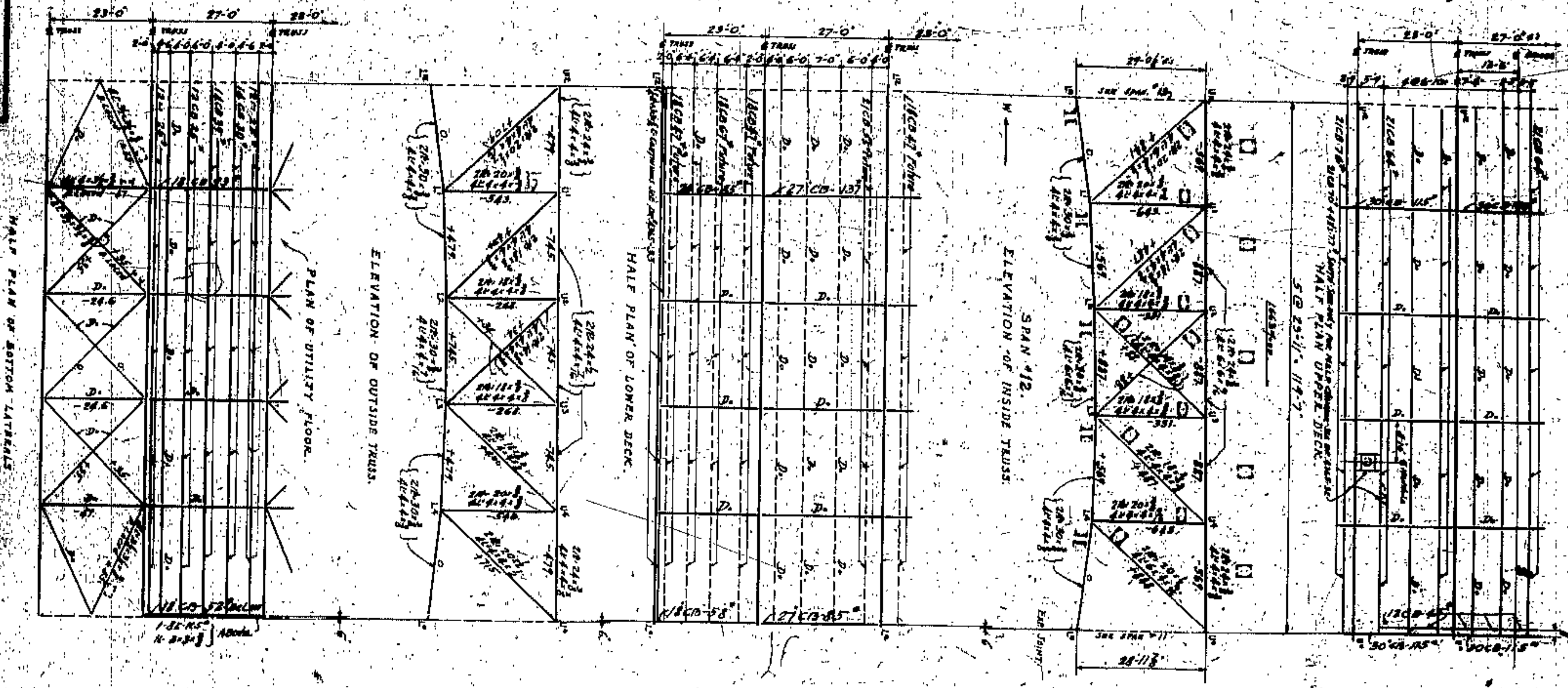
CONSULTING ENGINEERS AND ARCHITECTS

CLEVELAND

19

NO.	DATE	REVISION
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3	7-1-19	AS SHOWN
4	7-1-19	AS SHOWN
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6	7-1-19	AS SHOWN
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8	7-1-19	AS SHOWN
9	7-1-19	AS SHOWN
10	7-1-19	AS SHOWN





Trusses & Floor System Steel  
 Except as noted on detail  
 All lateral bracing, knee braces and  
 girts belong to other steel.

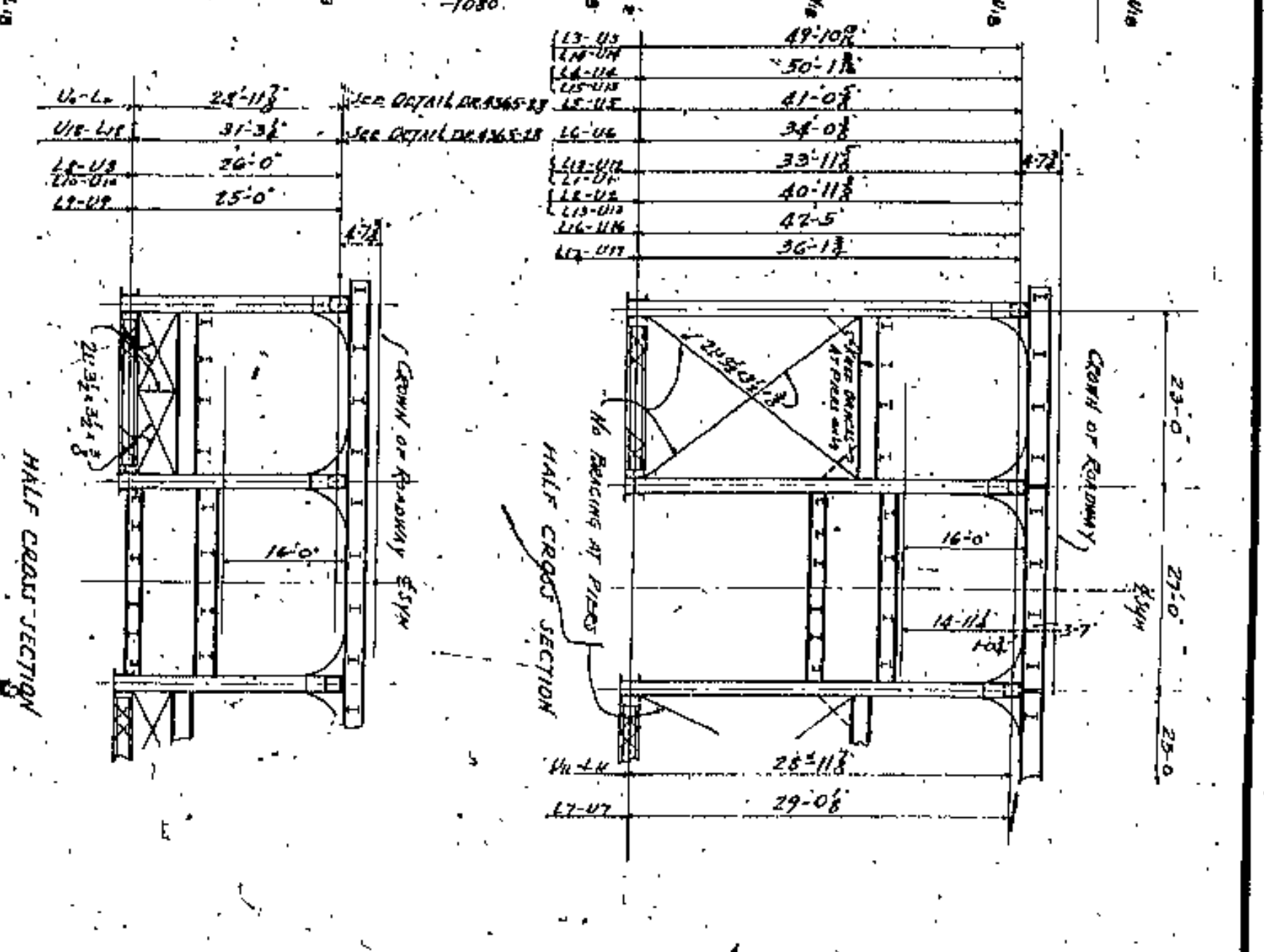
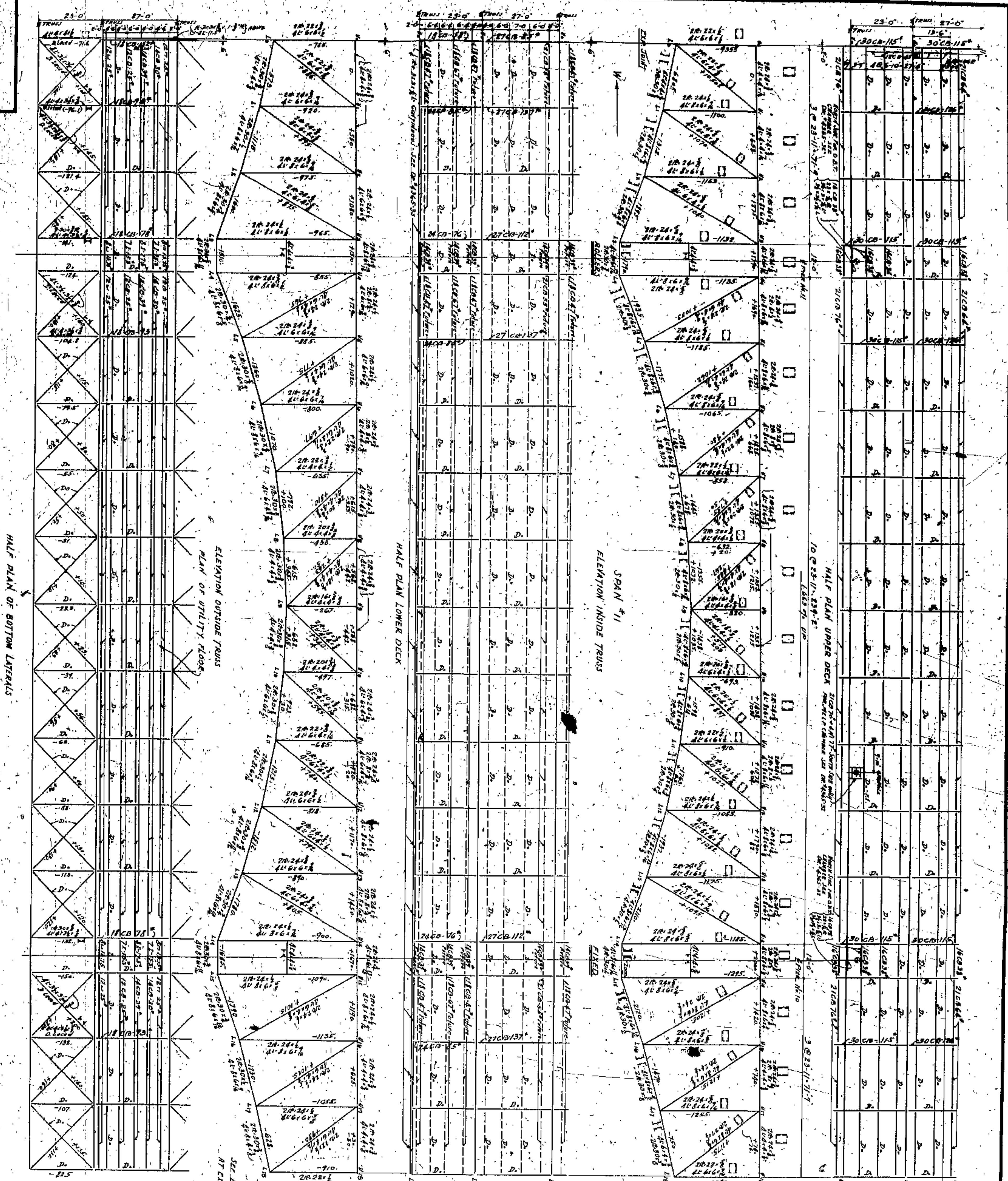
CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SHERIFF  
 F. R. WILLIAMS  
 COUNTY BRIDGE ENGINEER  
 A. M. FELGATE  
 W. E. COOK

LORAIN CENTRAL BRIDGE  
 CLEVELAND, O.  
 SPANS #10 & #12  
 TRUSSES - FLOOR SYSTEM - BRACING

APPROVED BY  
 J. R. ZMUNT  
 J. H. HARRIS  
 W. E. COOK

DATE	DESCRIPTION	BY
1933	DESIGN	J. R. ZMUNT
1933	CONSTRUCTION	J. H. HARRIS
1933	INSPECTION	W. E. COOK





TRUSSES & FLOOR SYSTEM Steel and Steel  
 EXCEPT AS NOTED IN DETAIL  
 ALL LATERAL BRACING, RICE BRACES AND  
 OTHER BRACING CAPABLE STEEL

APPROVED BY:  
 [Signature]  
 COUNTY ENGINEER

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY JURATOR  
 J. R. ZIMMONT  
 COUNTY BRIDGE ENGINEER  
 J. H. HARRIS  
 M. E. COOK  
**LORAIN CENTRAL BRIDGE**  
 CLEVELAND

TRUSSES - FLOOR SYSTEM - BRACING  
 SPAN #11  
**WILBUR HUTTON AND F. WALKER**  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND  
 21













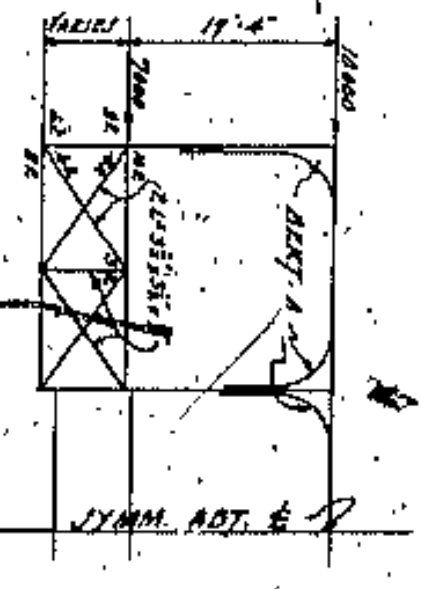
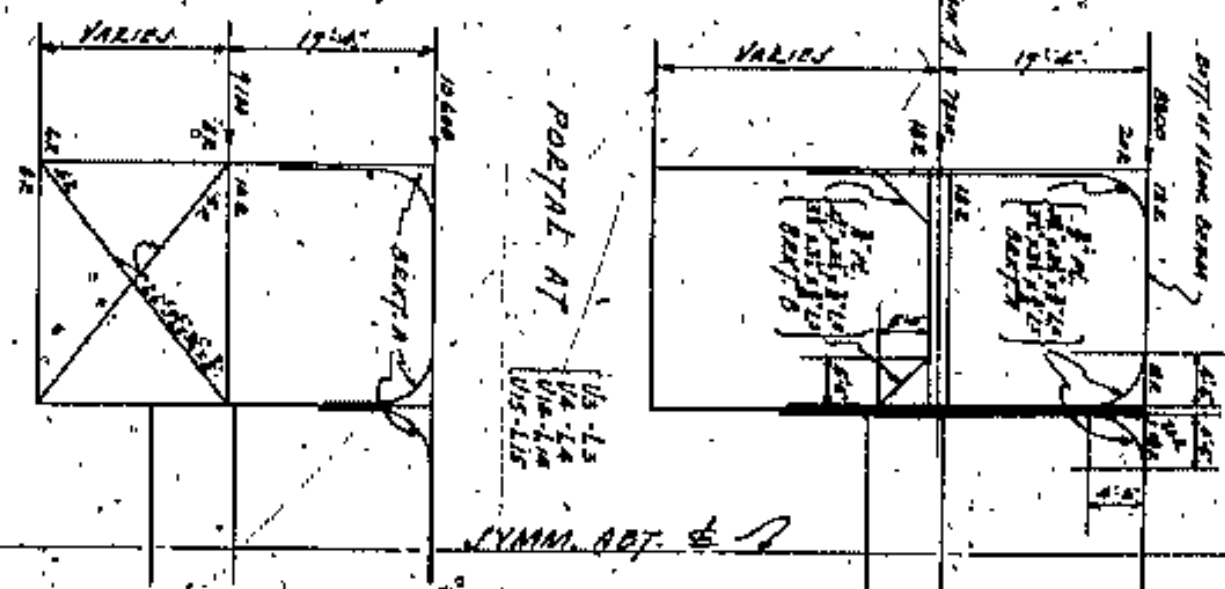
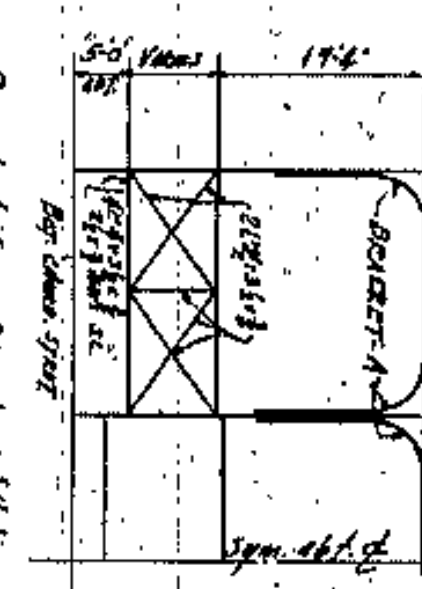
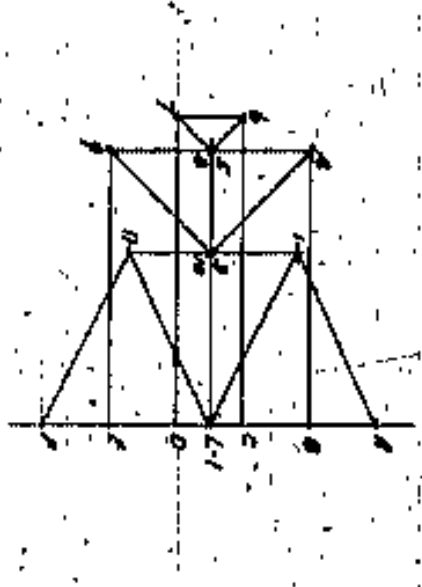
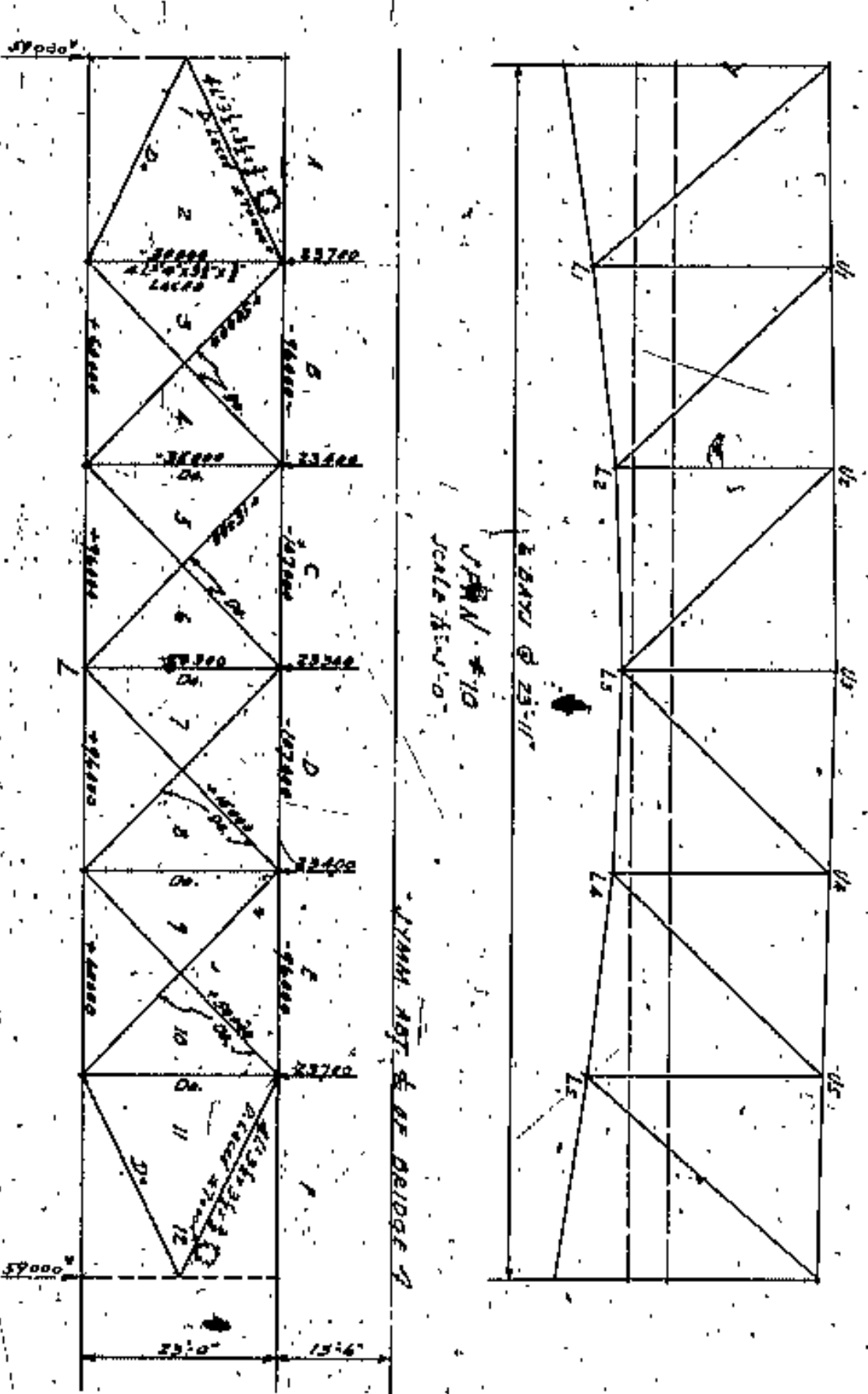
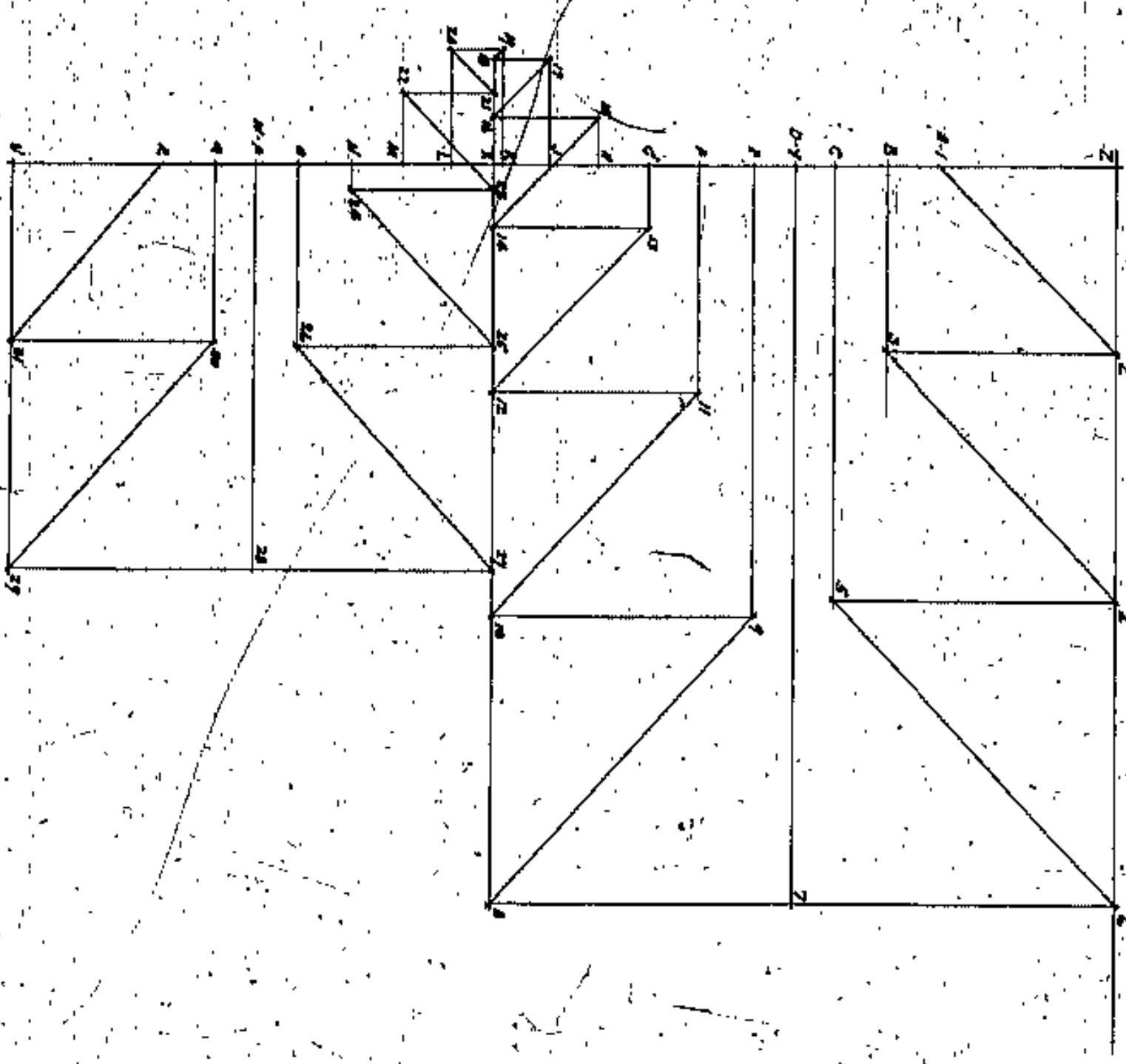
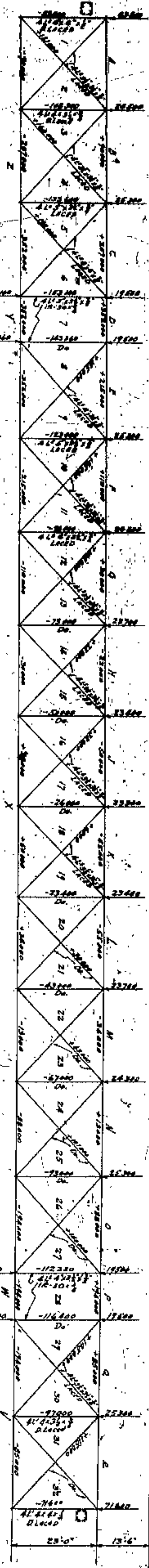
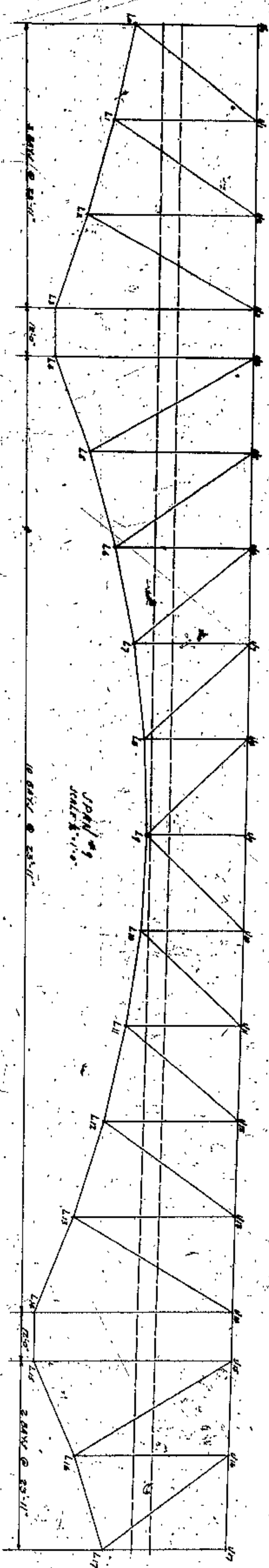












NOTE:  
 BRACING TO BE IN PLACE IN BRACING  
 DIRECTLY ADJACENT TO LATERAL  
 BRACING TO BE DOUBLE LACED WITH  
 2x12 SMC.  
 Lateral bracing to  
 be spaced 17'-0"

APPROVED BY-

CITY ENG. *[Signature]*  
 CO. COMM. *[Signature]*  
 CO. ANCHOR *[Signature]*  
 CO. ENG. *[Signature]*  
 BRIDGE *[Signature]*  
 CIVIL *[Signature]*

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SUPERVISOR  
 J. E. ZIMONY  
 COUNTY BRIDGE ENGINEER  
 J. H. HARBEL  
 W. E. COOK

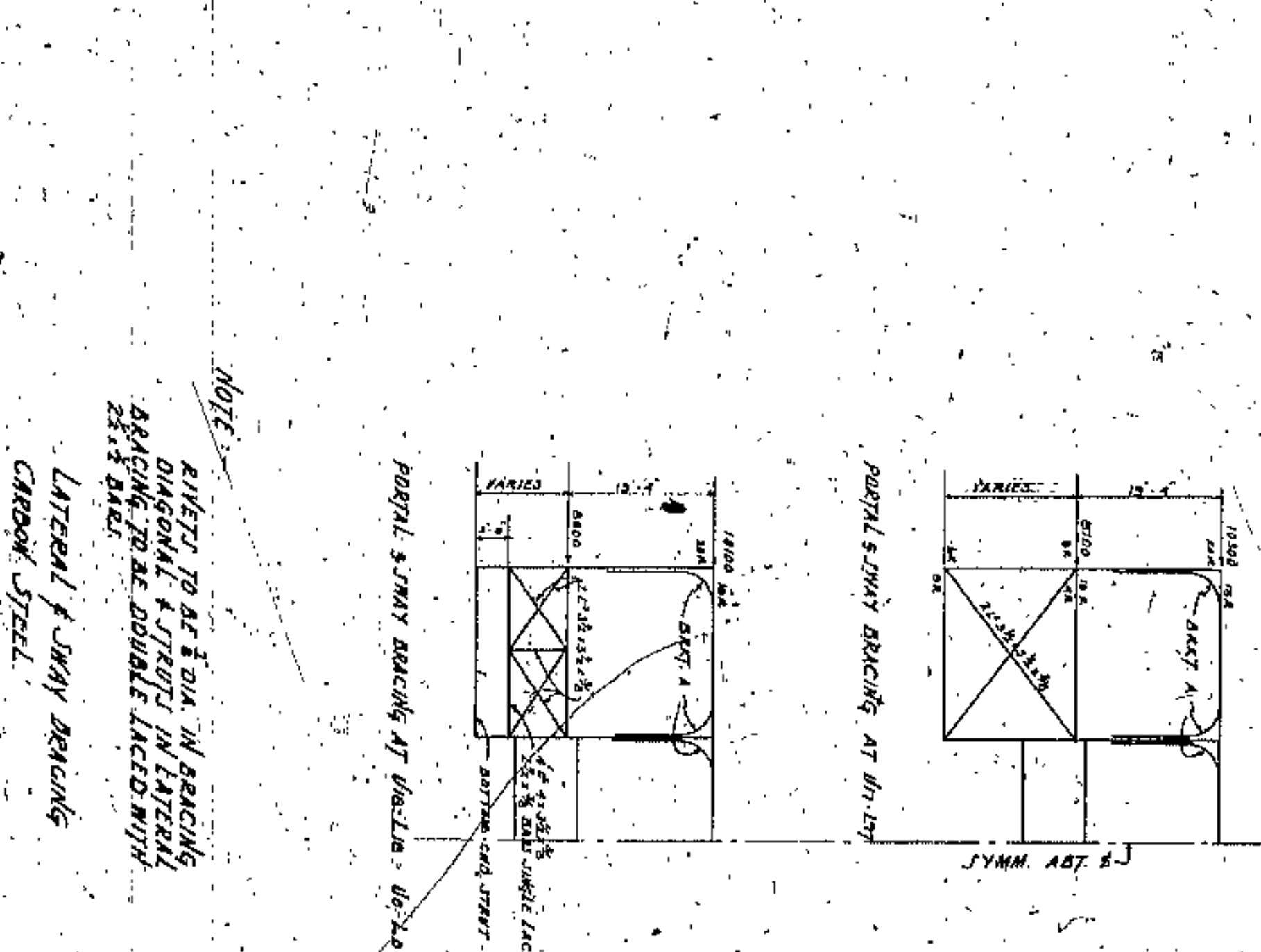
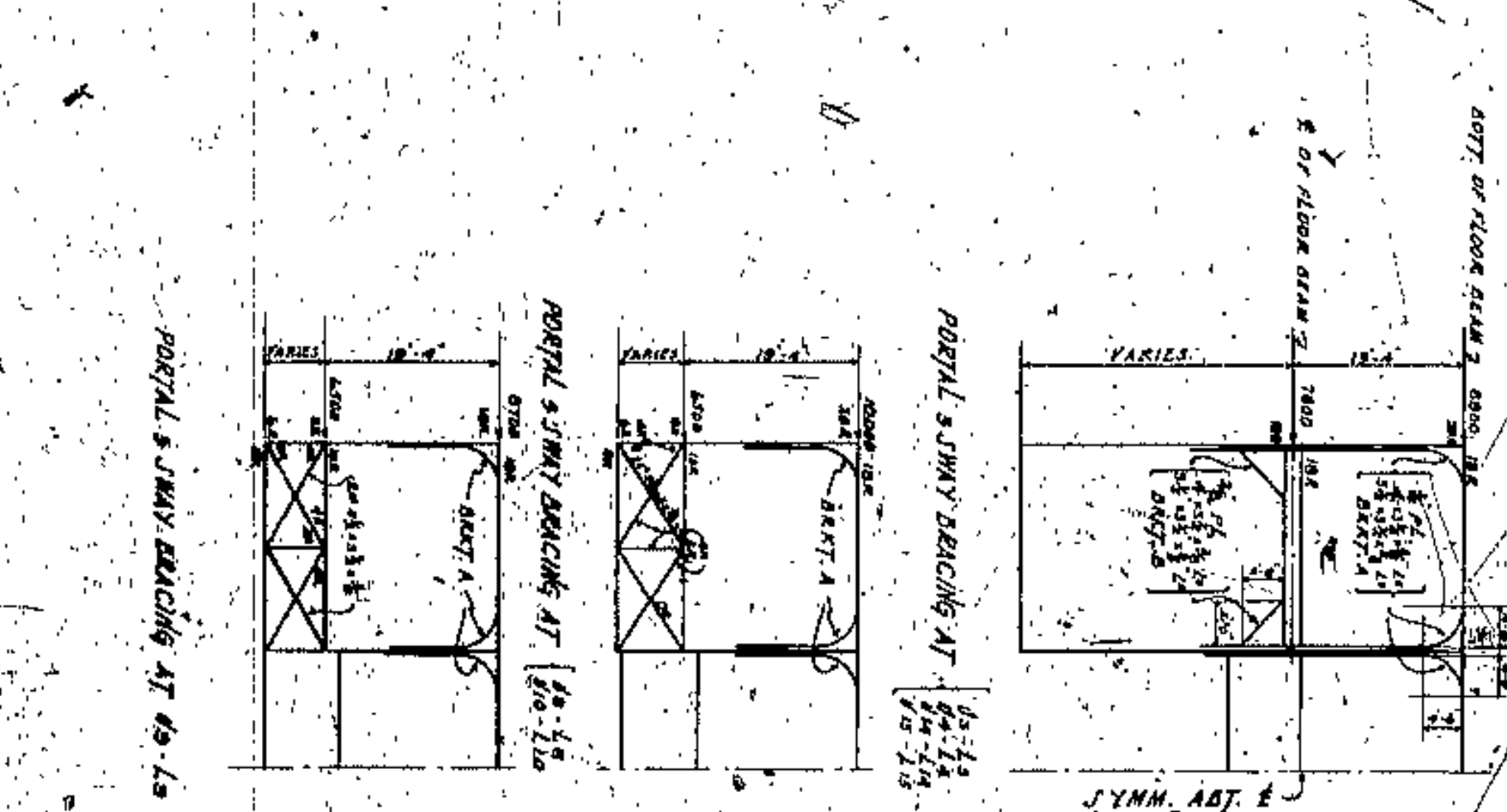
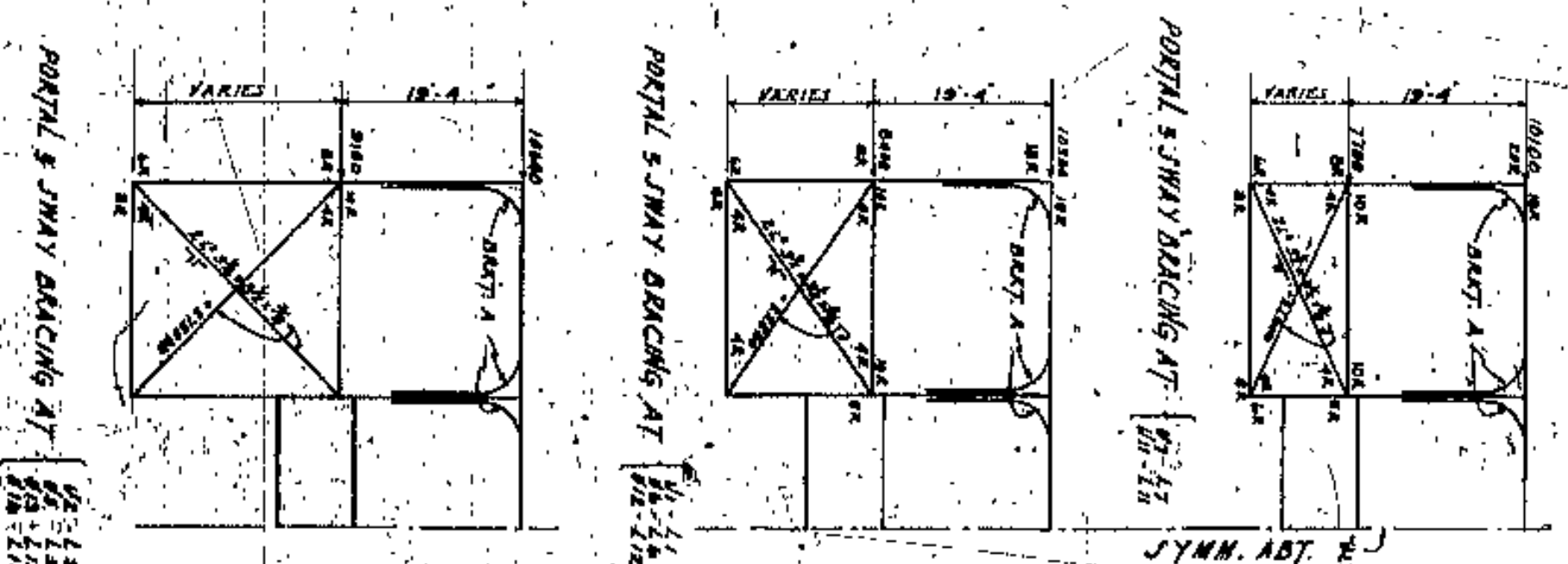
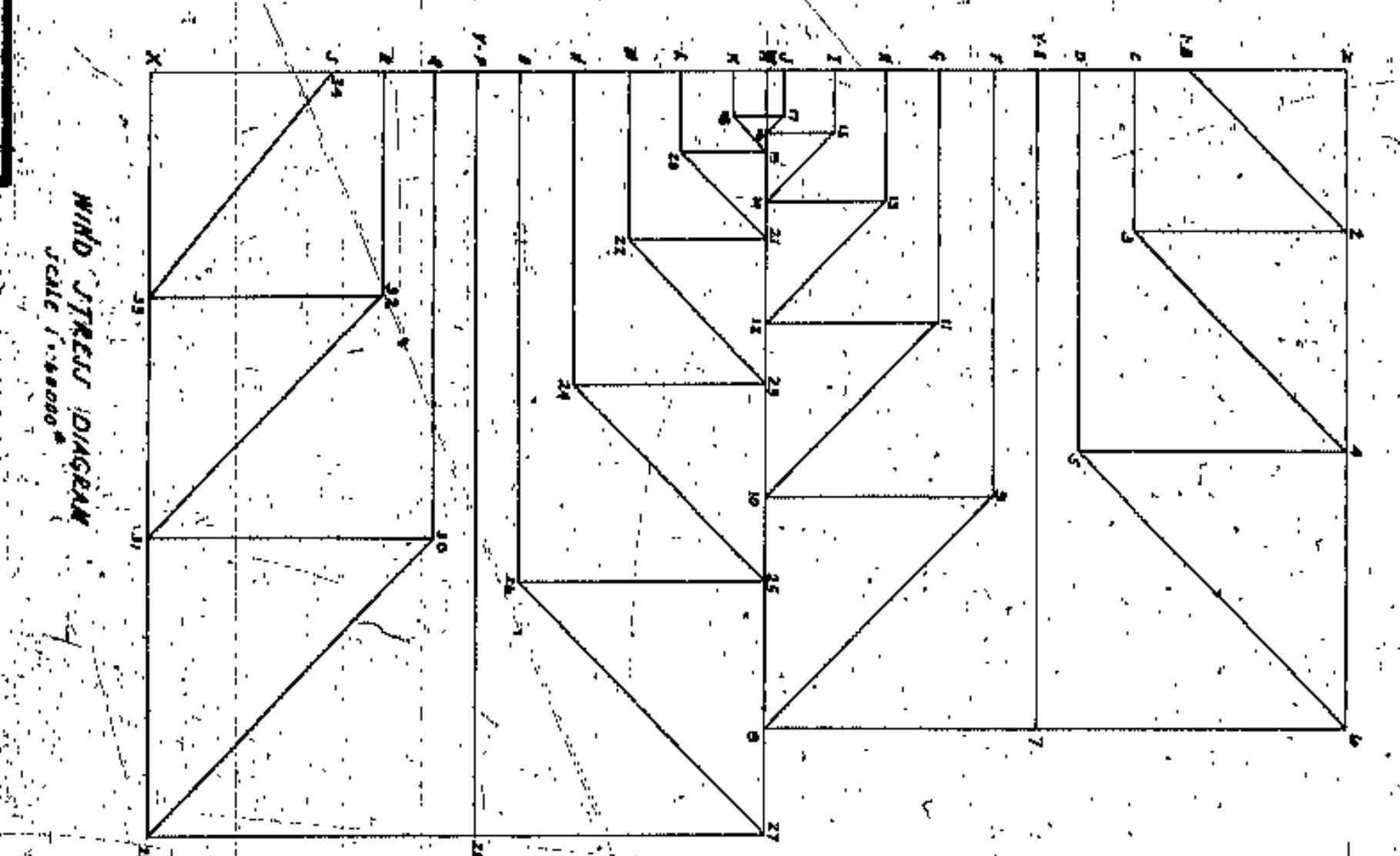
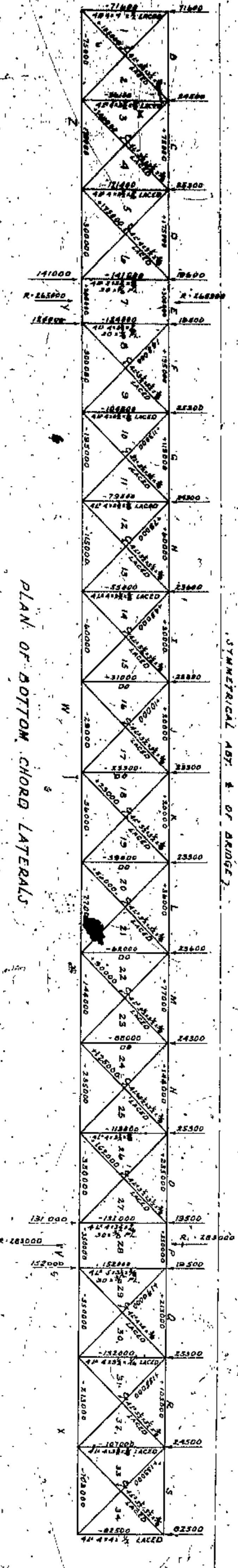
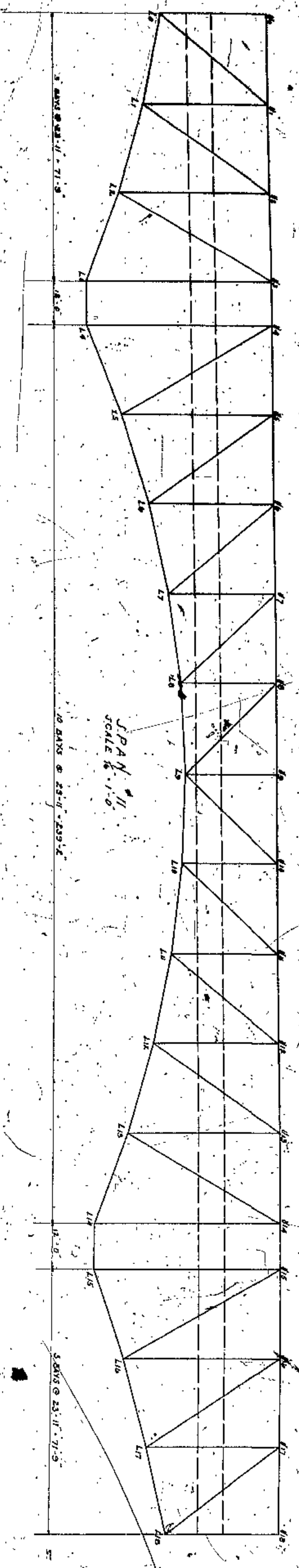
LODAIN CENTRAL BRIDGE  
 CLEVELAND

LATERAL BRACING SPAN 94'10"

WESLEY WATSON AND F. W. PALMER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

DATE	DESCRIPTION	BY	CHECKED
1927	DESIGNED		
1927	CONSTRUCTED		





NOTE:  
 ELEMENTS TO BE 2 DIA. IN BRACING  
 DIAGONAL & VERTICAL IN LATERAL  
 BRACING TO BE DOUBLE LACED WITH  
 2 1/2 DIA. RODS.  
 Lateral & Wind Bracing  
 Carbon Steel.

APPROVED BY: *[Signature]*

CITY: *[Blank]*

CO. NO. *[Blank]*

CO. *[Blank]*

AUDITOR: *[Blank]*

ENG. *[Blank]*

BRIDGE *[Blank]*

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SUPERVISOR  
 J. R. ZWING  
 COUNTY BRIDGE ENGINEER  
 J. H. HARRIS  
 A. M. FELGATE  
 W. E. COOK

LORAIN CENTRAL BRIDGE  
 CLEVELAND

Lateral Bracing, Span #11

SCALE 1/8" = 1'-0"

WILBUR WATSON AND F. W. MEYER  
 CONSULTING ENGINEERS AND ARCHITECTS  
 CLEVELAND

1365

DATE	BY	REVISION

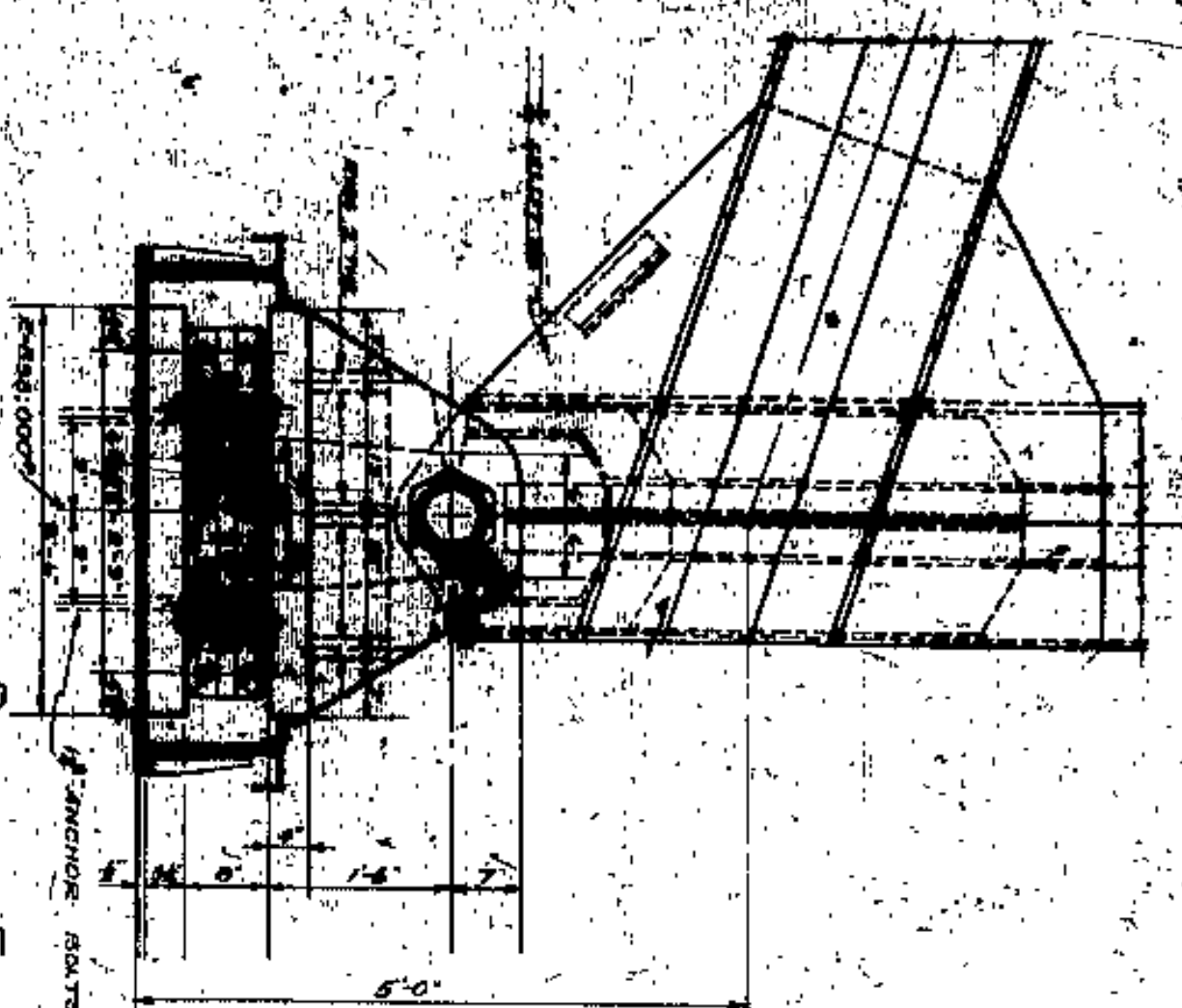
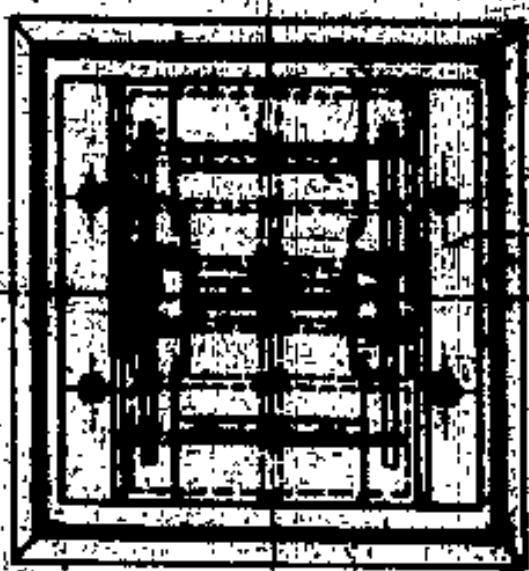




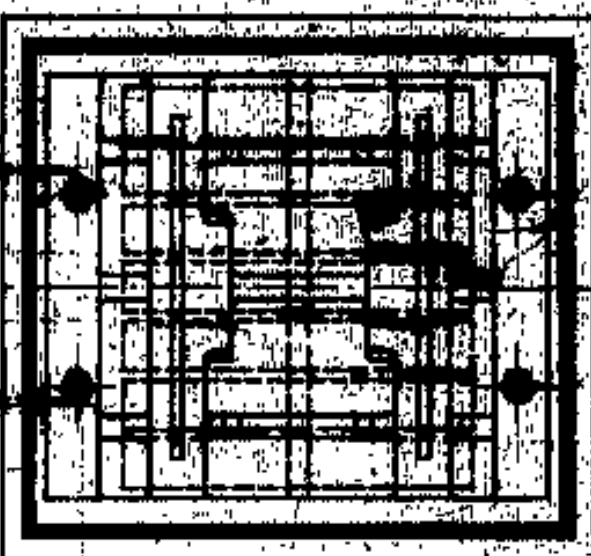




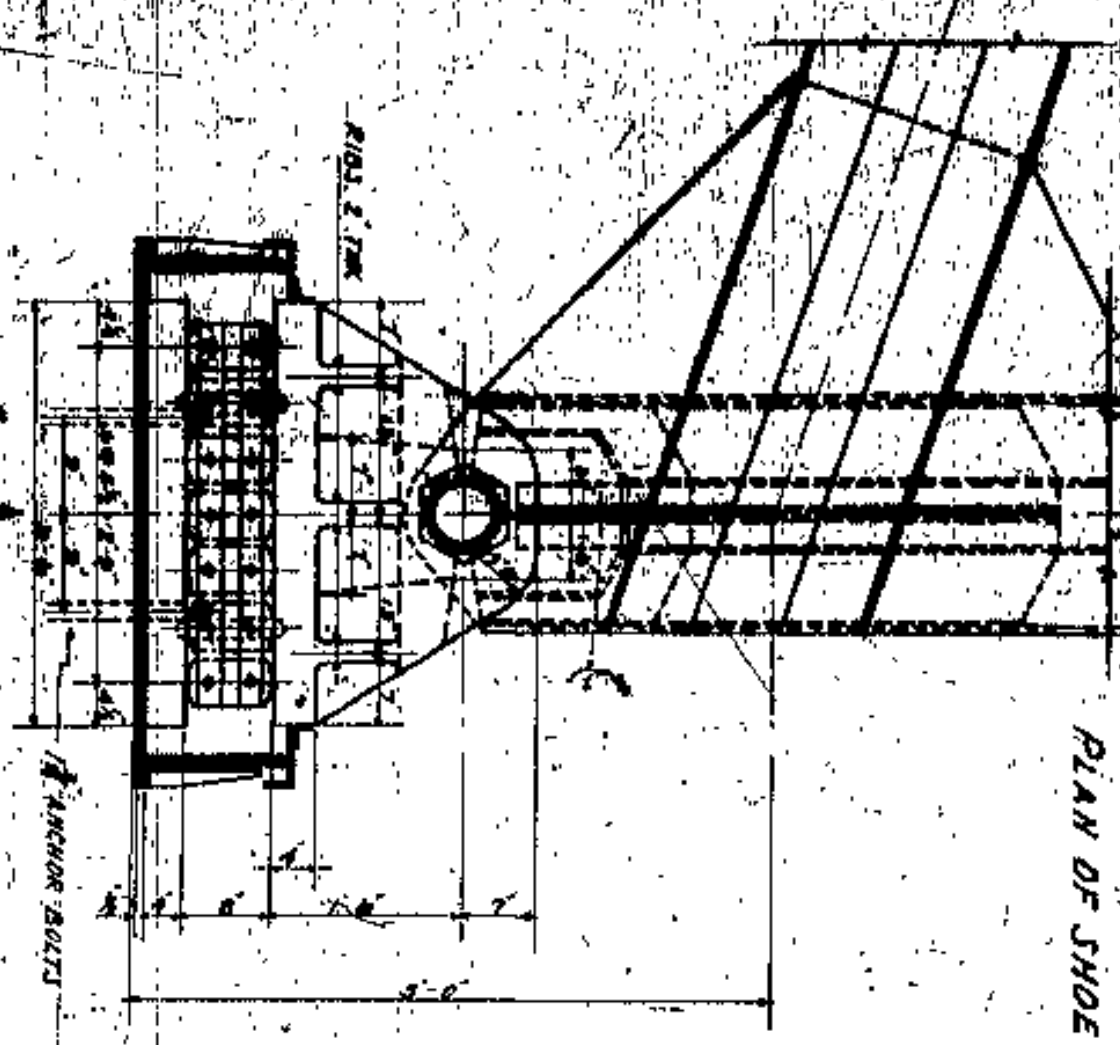




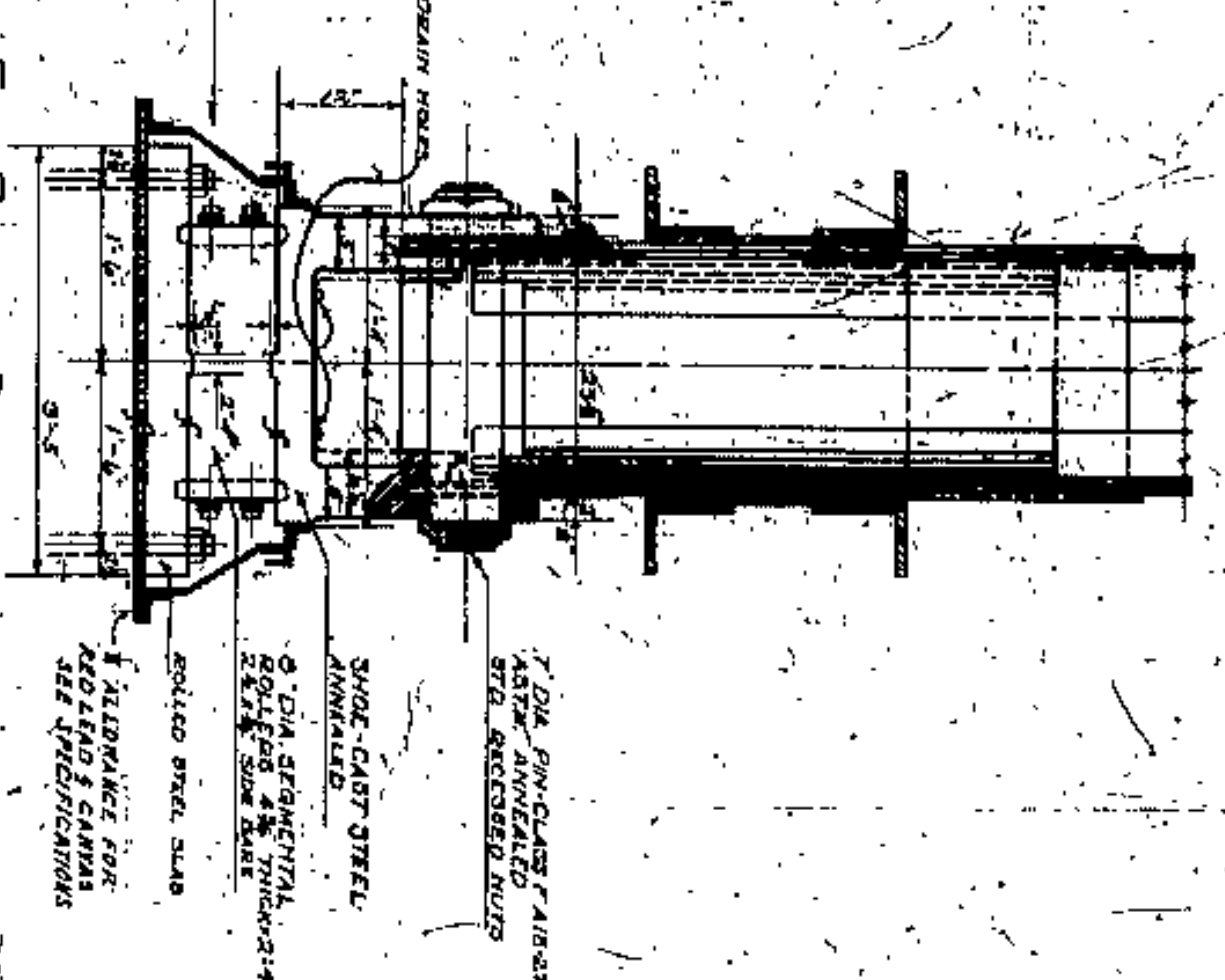
DETAIL OF EXPANSION SHOES FOR BRIDGE SEATS-MK-39 ON EAST & WEST PYLONS FOR OUTSIDE TRUSS - 4 REED



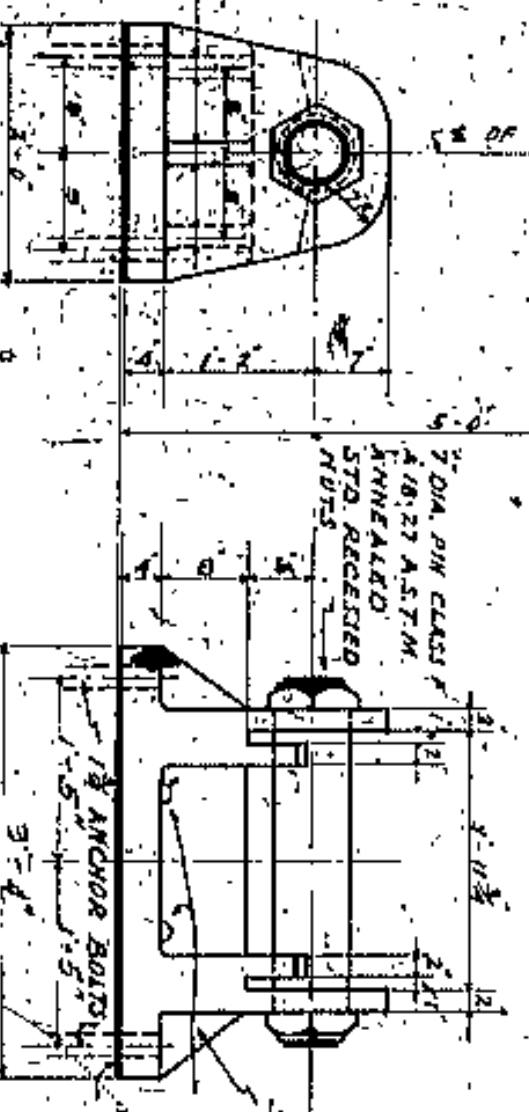
PLAN OF SHOE



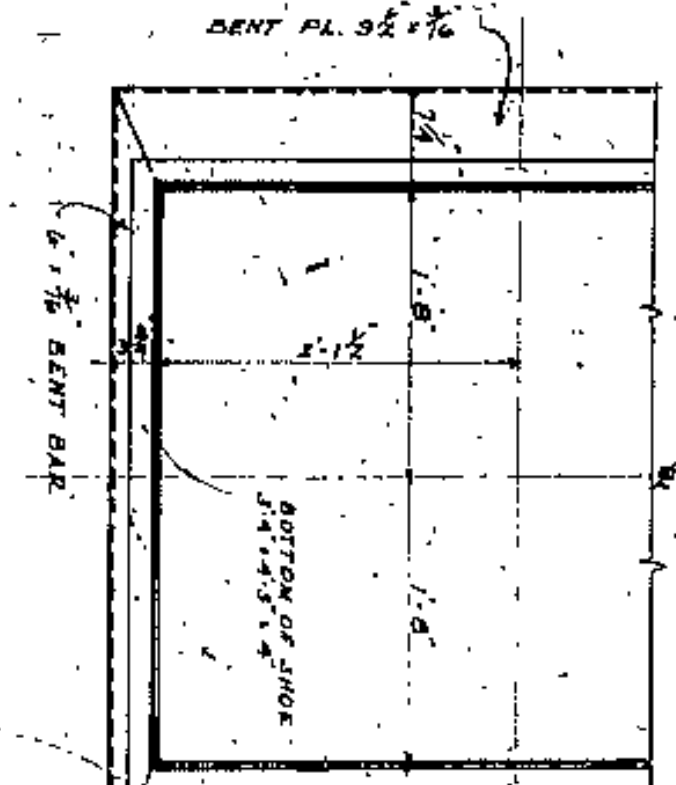
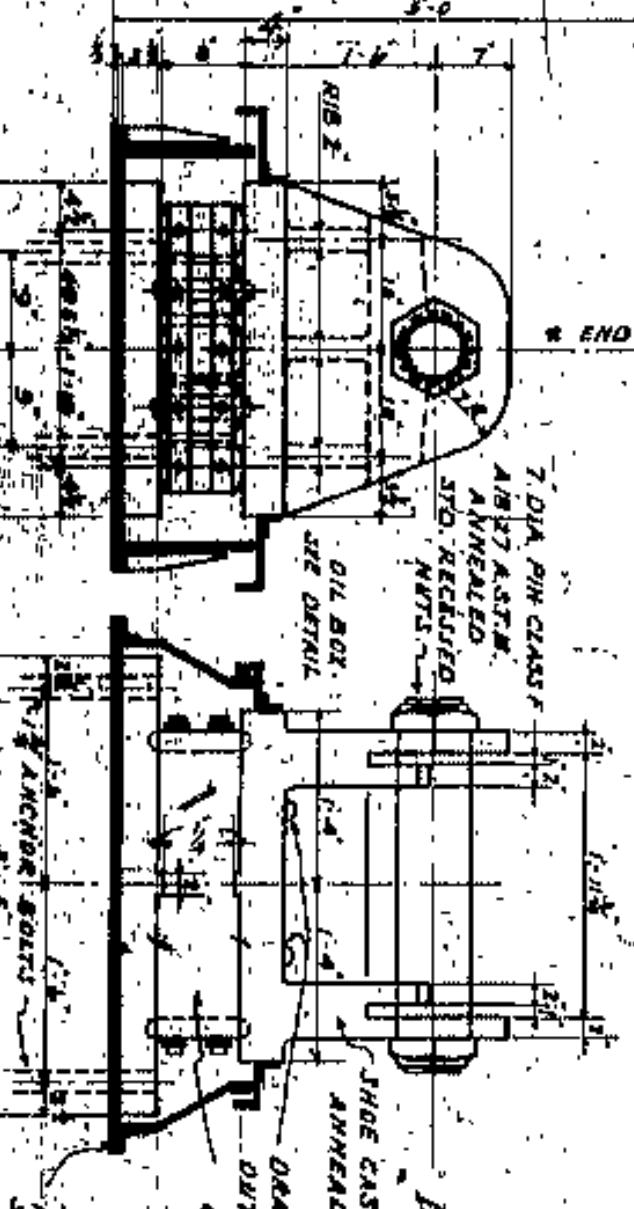
DETAIL OF EXPANSION SHOES FOR BRIDGE SEATS-MK-310 ON EAST Pylon FOR INSIDE TRUSS & EAST ABUTMENT FOR OUTSIDE TRUSS - 4 REED



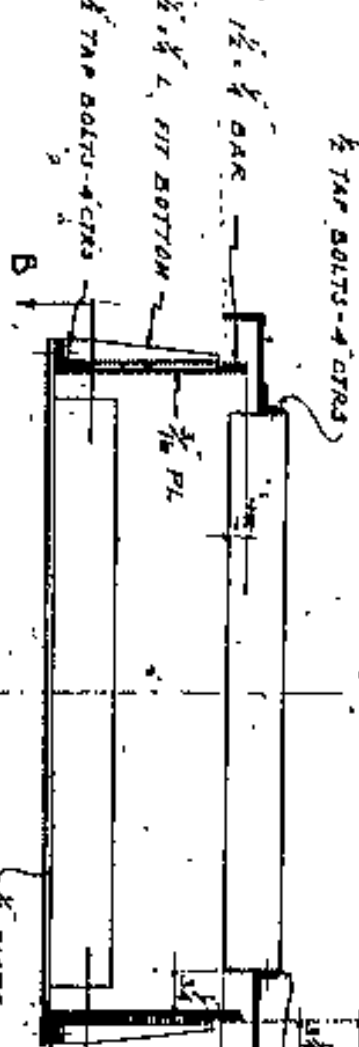
DETAIL OF FIXED SHOE FOR BRIDGE SEAT-MK-312 FOR CENTER TRUSS-WEST END OF W & L SPAN - 1 REED



DETAIL OF EXPANSION SHOE FOR BRIDGE SEAT-MK-311 FOR CENTER TRUSS-WEST END OF W & L SPAN - 1 REED



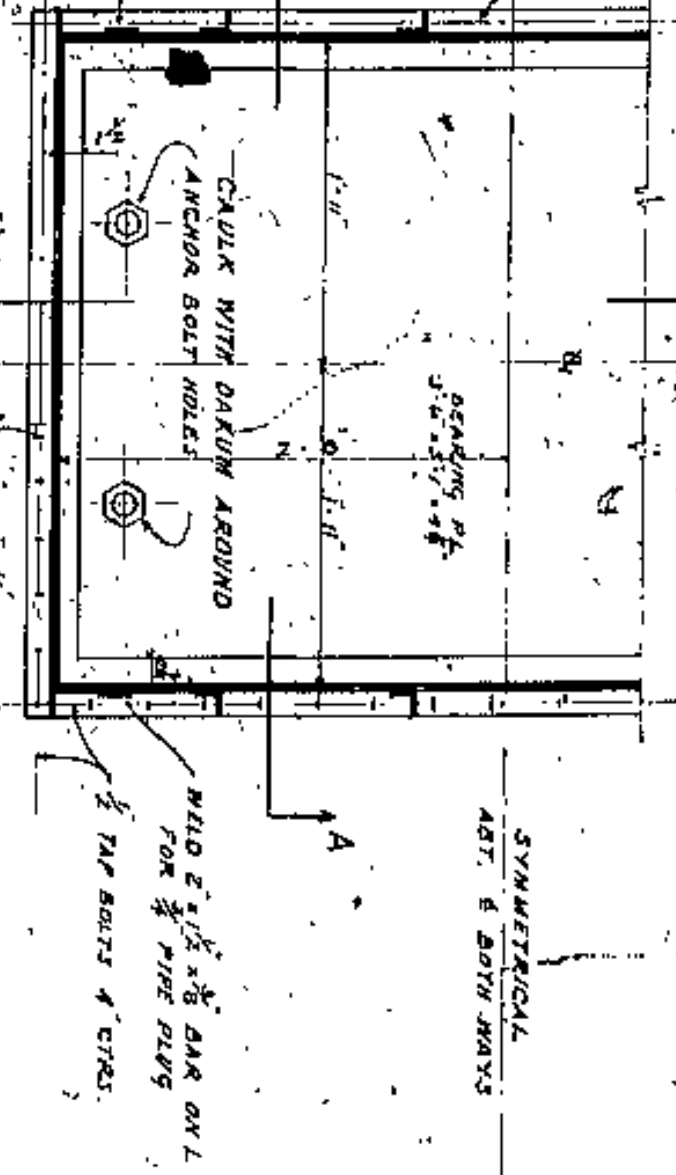
PLAN AT D-D SCALE 1/2"=1'-0"



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

DETAIL OF OIL BOX FOR EXPANSION SHOE J2

MINOR REED REQUIRED FOR SHOES J3, J4, J5, J6, J7, J8, J9 CLEARANCE DIMENSIONS SAME AS FOR J2



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

NOTE - OIL BOX TO BE ERRECTED AND FILLED WITH OIL BY CONTRACTOR FOR STRUCTURAL STEEL. A HEAVY ONE SUBJECT TO APPROVAL OF THE ENGINEERS TO BE FURNISHED BY THE CONTRACTOR FOR THE STRUCTURAL STEEL. WELD CONNECTIONS OF BOX BOX TO BE OIL TIGHT. ANCHOR BOLTS NOT IN THIS CONTRACT.

APPROVED BY

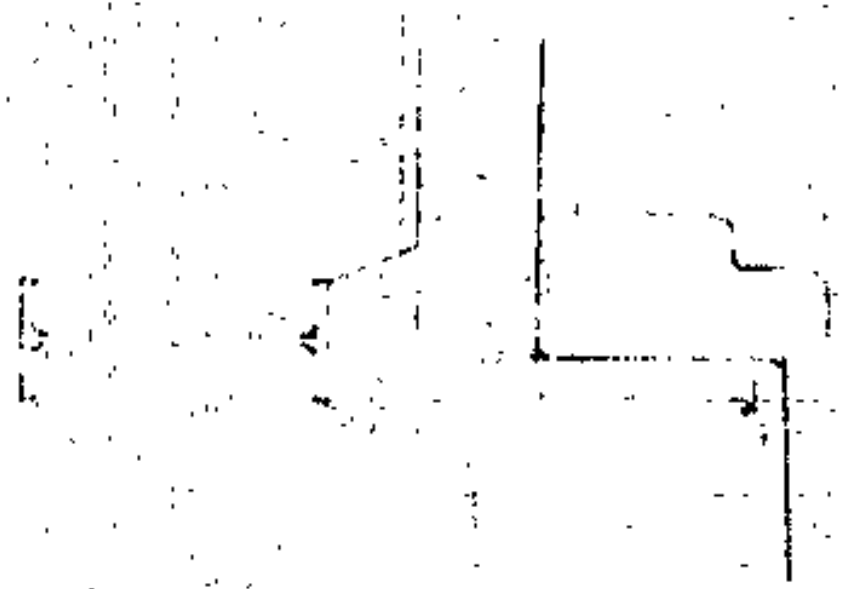
CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SURETOR  
 COUNTY BRIDGE ENGINEER  
 COUNTY ARCHITECT

LOEAM CENTRAL BRIDGE  
 CLEVELAND

BEARING DETAILS FOR SHOES J9  
 J10, J11, J12 - DETAILS OF OIL BOX

NO.	DATE	BY	FOR
1	10-1-19	J. H. HARRIS	DESIGN
2	10-1-19	J. H. HARRIS	DESIGN
3	10-1-19	J. H. HARRIS	DESIGN
4	10-1-19	J. H. HARRIS	DESIGN
5	10-1-19	J. H. HARRIS	DESIGN
6	10-1-19	J. H. HARRIS	DESIGN
7	10-1-19	J. H. HARRIS	DESIGN
8	10-1-19	J. H. HARRIS	DESIGN
9	10-1-19	J. H. HARRIS	DESIGN
10	10-1-19	J. H. HARRIS	DESIGN





SECTION A-A

1

2

3

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

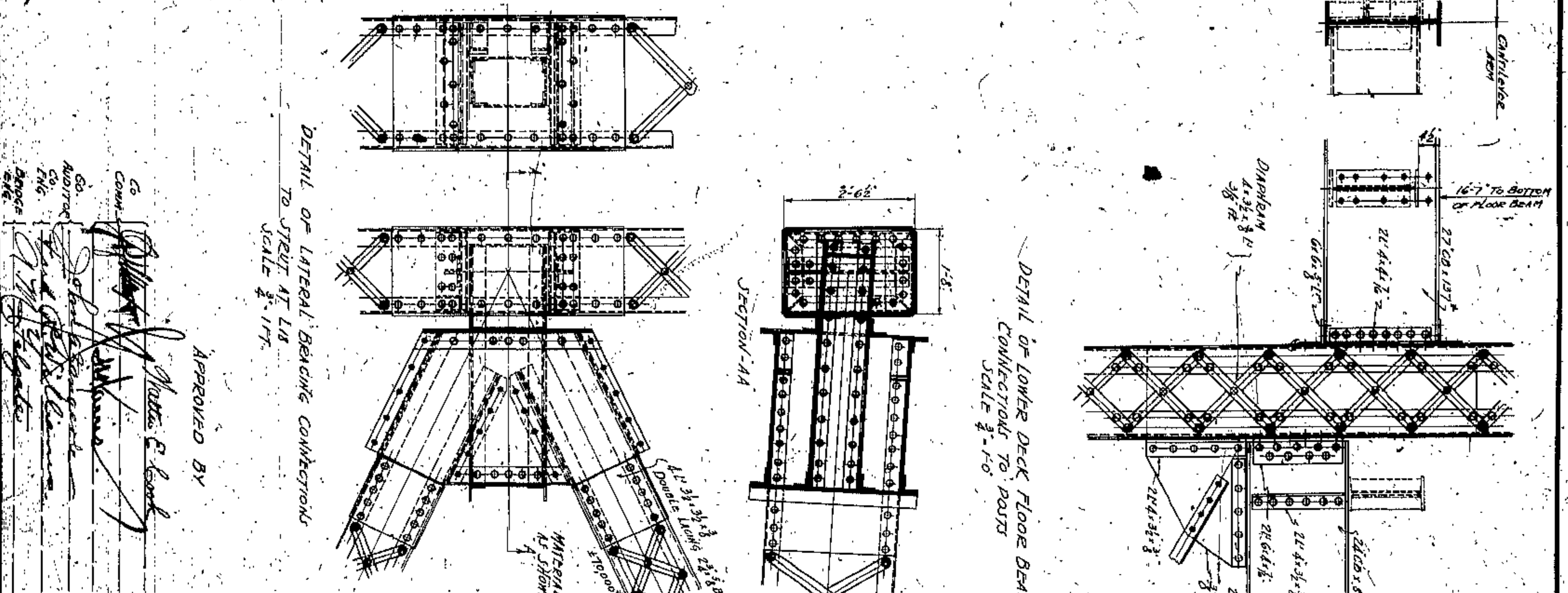
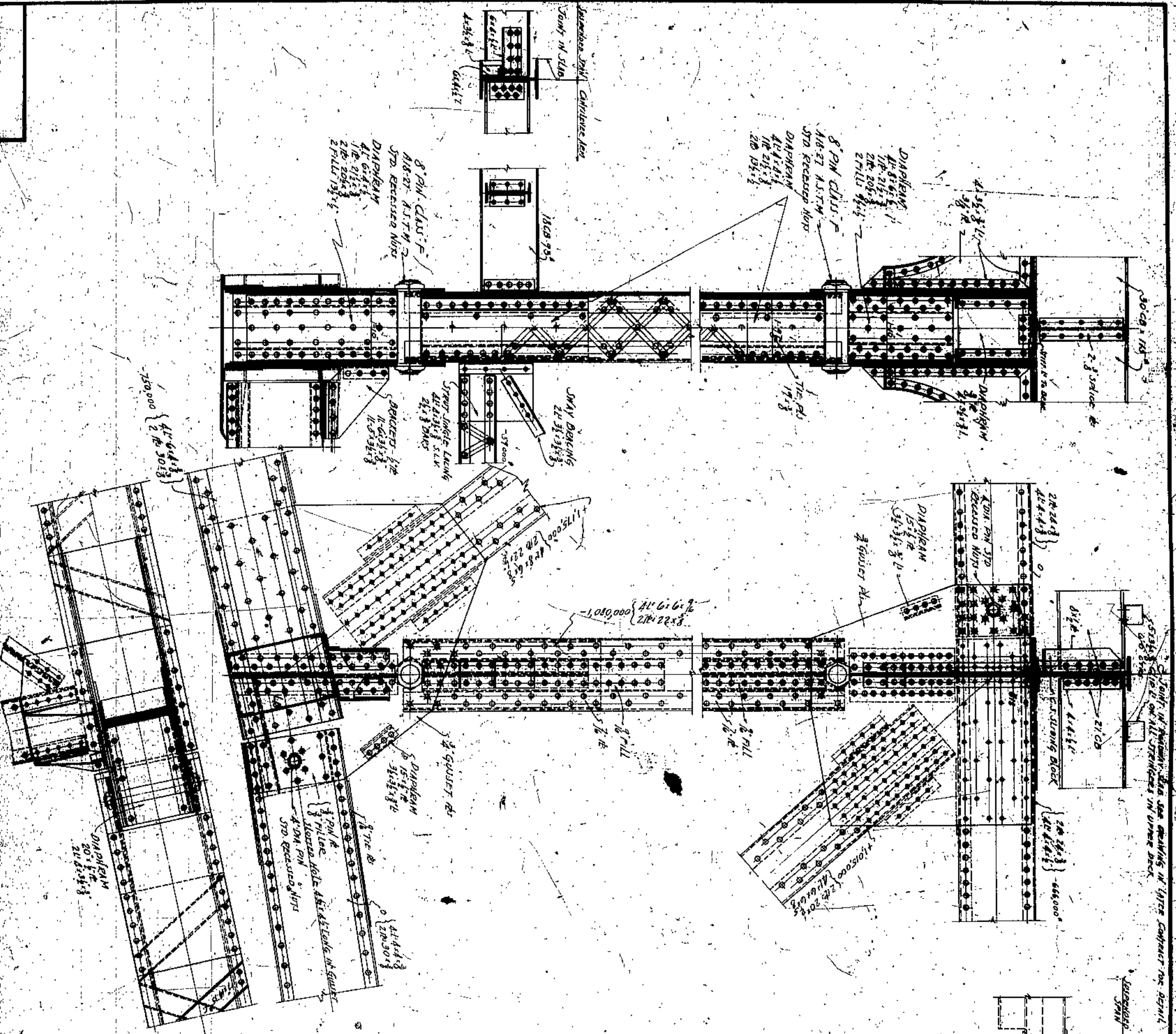












APPROVED BY: *James E. Cook*  
 CIVIL ENGINEER  
 4365  
 CLEVELAND

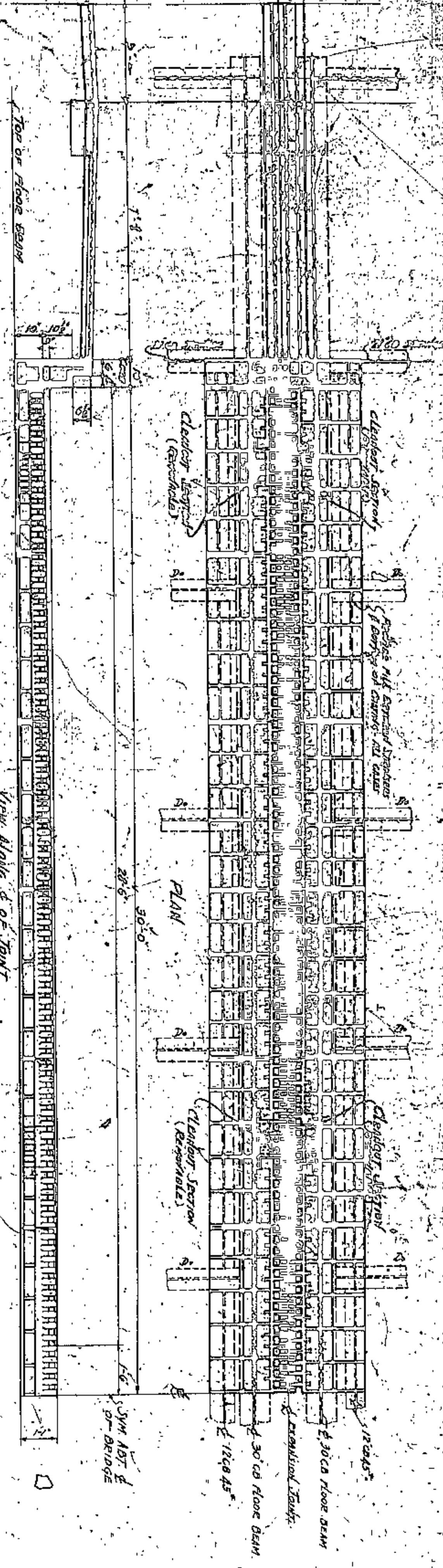
SUPPORT FOR JURISDICTION SPAN #10  
 WILBUR WATSON AND FENWICKER  
 CIVIL ENGINEERS  
 CLEVELAND

CUVAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY CLERK  
 J. H. HARRIS  
 COUNTY BRIDGE ENGINEER  
 W. E. COOK

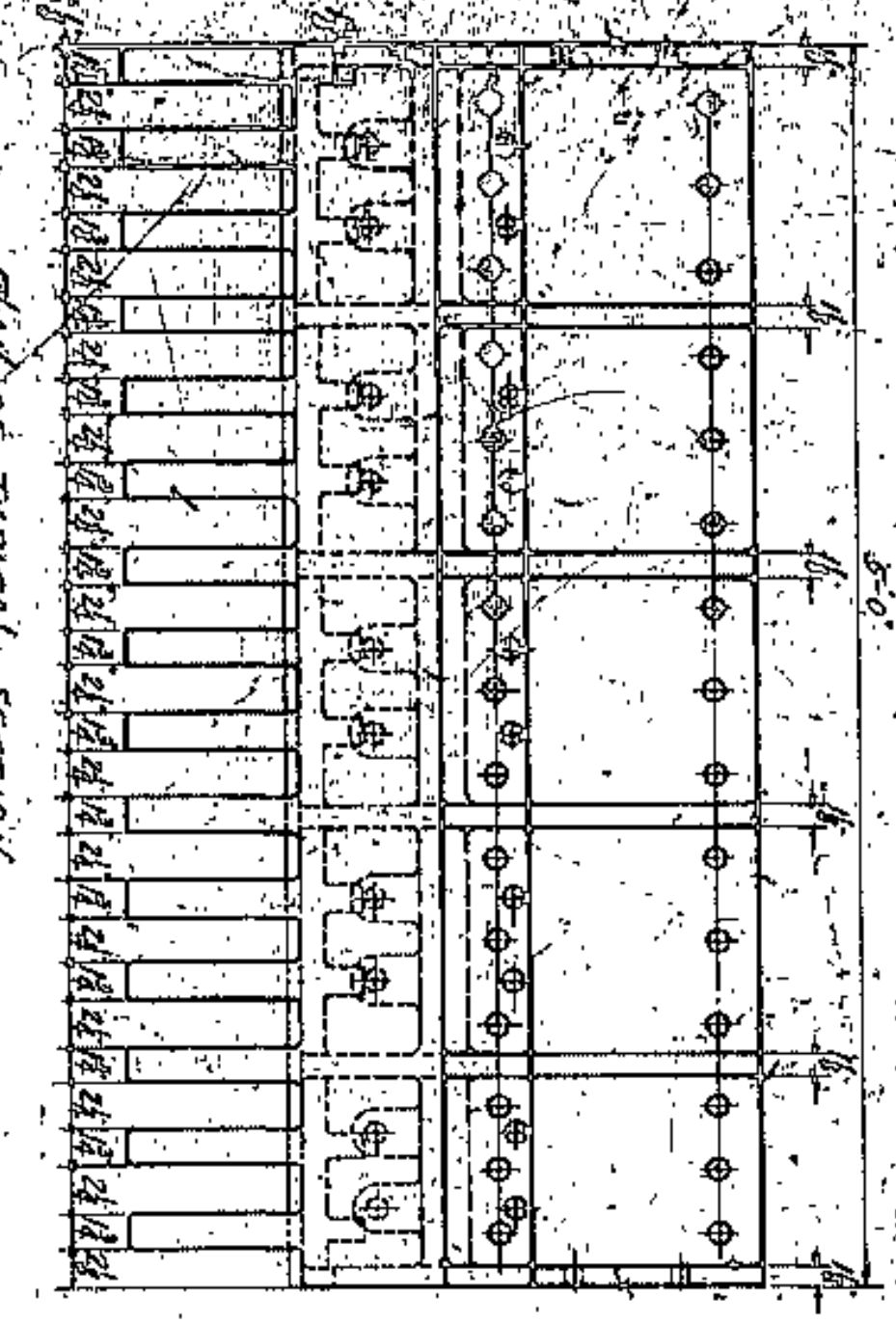
**LORAIN CENTRAL BRIDGE**  
 CLEVELAND

NO.	DATE	BY	FOR
1	7-1-26	W.W.	DESIGN
2	7-1-26	W.W.	DESIGN
3	7-1-26	W.W.	DESIGN
4	7-1-26	W.W.	DESIGN
5	7-1-26	W.W.	DESIGN
6	7-1-26	W.W.	DESIGN
7	7-1-26	W.W.	DESIGN
8	7-1-26	W.W.	DESIGN
9	7-1-26	W.W.	DESIGN
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15	7-1-26	W.W.	DESIGN
16	7-1-26	W.W.	DESIGN
17	7-1-26	W.W.	DESIGN
18	7-1-26	W.W.	DESIGN
19	7-1-26	W.W.	DESIGN
20	7-1-26	W.W.	DESIGN
21	7-1-26	W.W.	DESIGN
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23	7-1-26	W.W.	DESIGN
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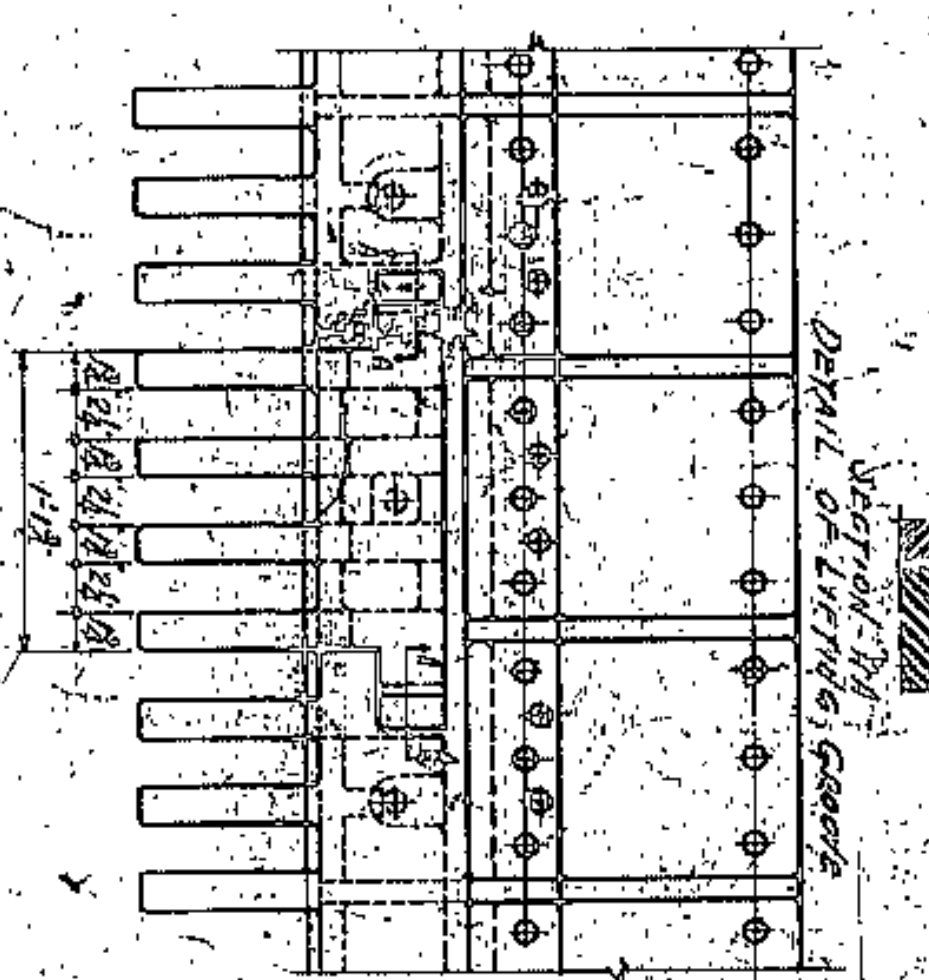




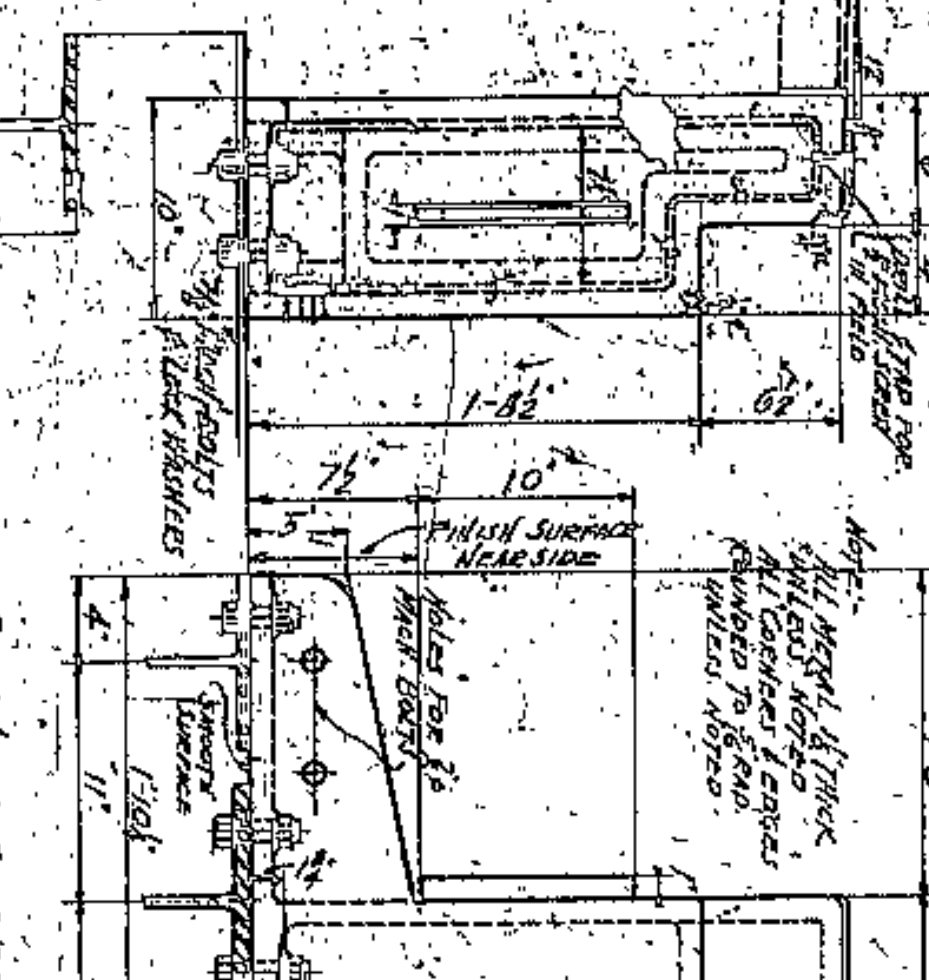
PLAN & ELEVATION OF TYPICAL EXPANSION JOINT ON BRIDGE - 7 JOINTS REQ'D  
View Above & of Joint  
Scale 1/4" = 1'-0"



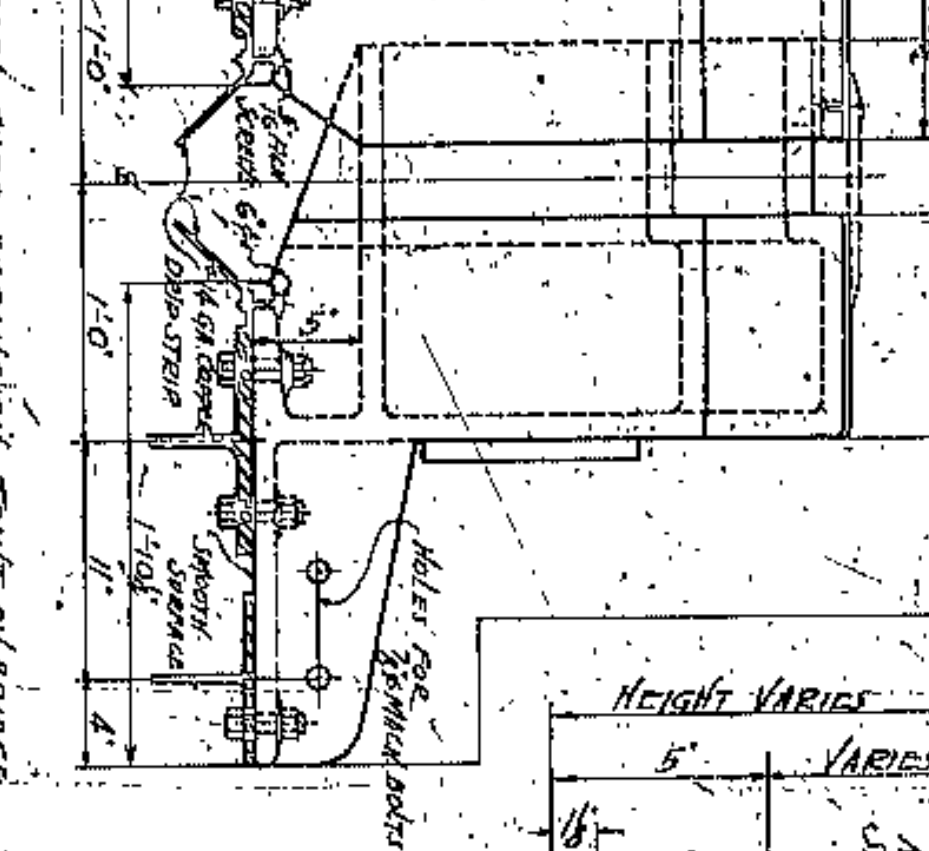
DETAIL OF TYPICAL SECTION CAST STEEL  
Scale 1/4" = 1'-0"



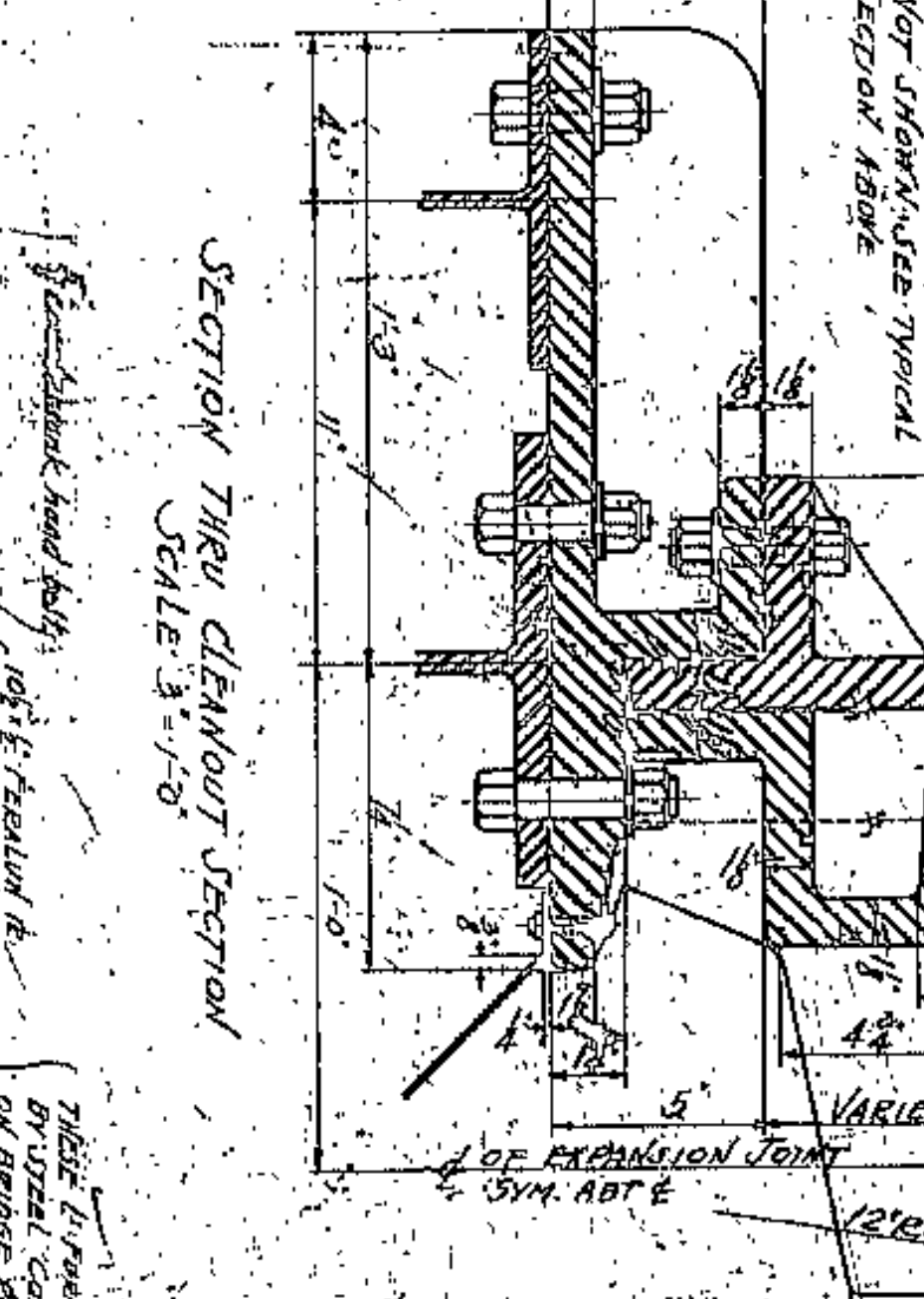
DETAIL OF REMOVABLE CLEANOUT SECTION CAST STEEL  
Scale 1/4" = 1'-0"



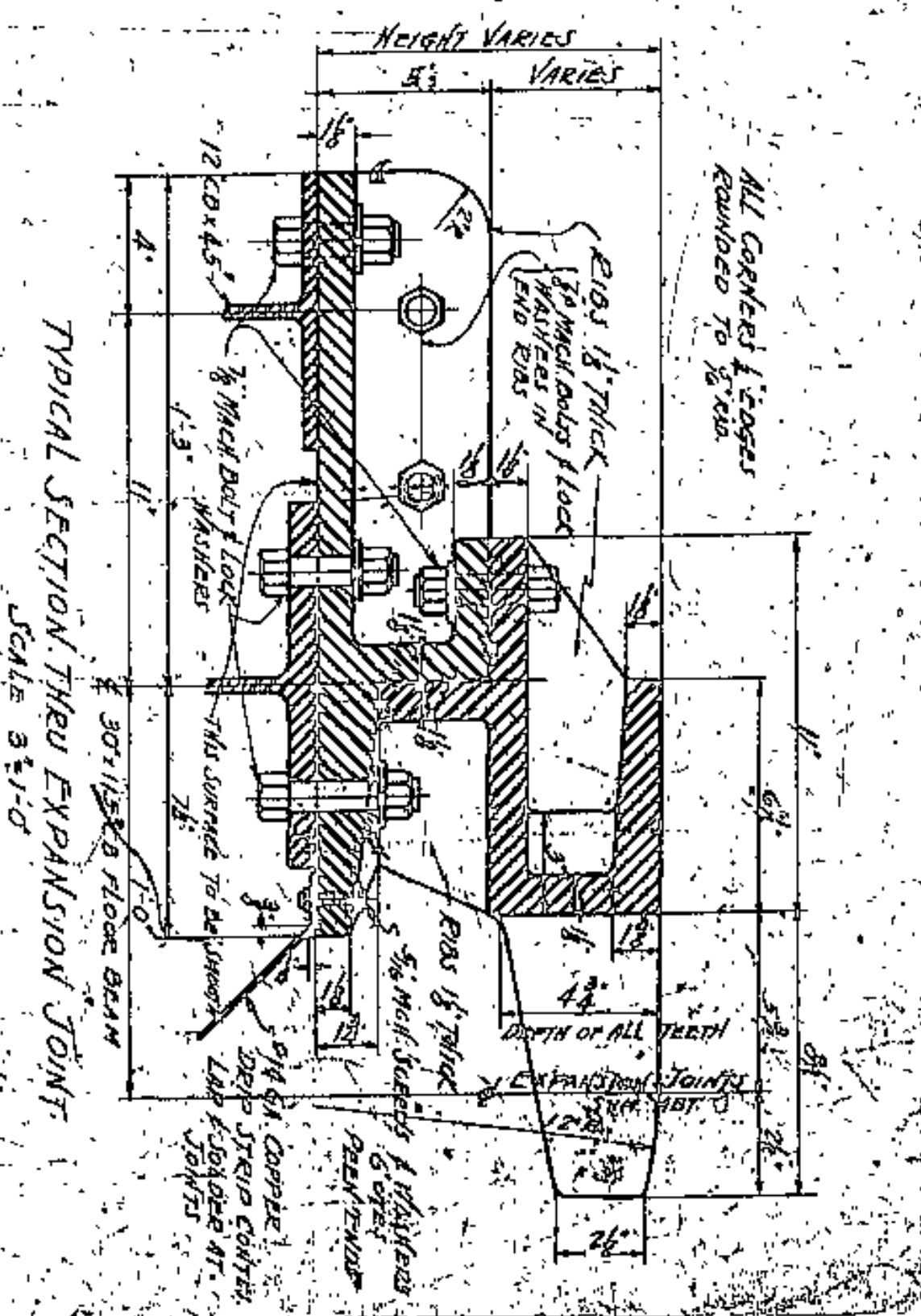
DETAIL OF CAST STEEL CURB EXPANSION JOINT ON BRIDGE  
Scale 1/4" = 1'-0"



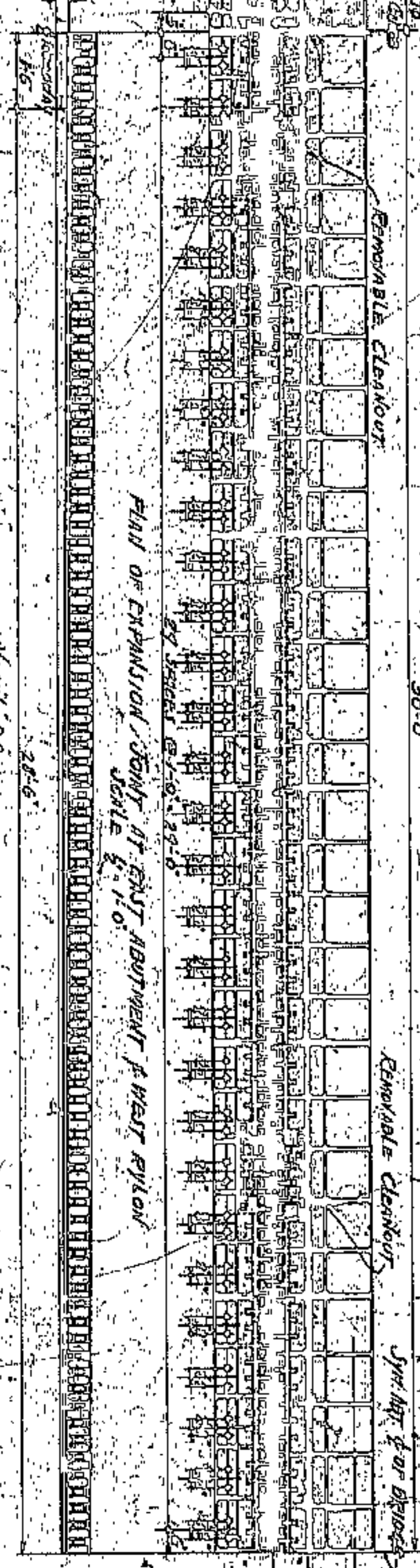
DETAIL OF CAST STEEL CURB EXPANSION JOINT ON BRIDGE  
Scale 1/4" = 1'-0"



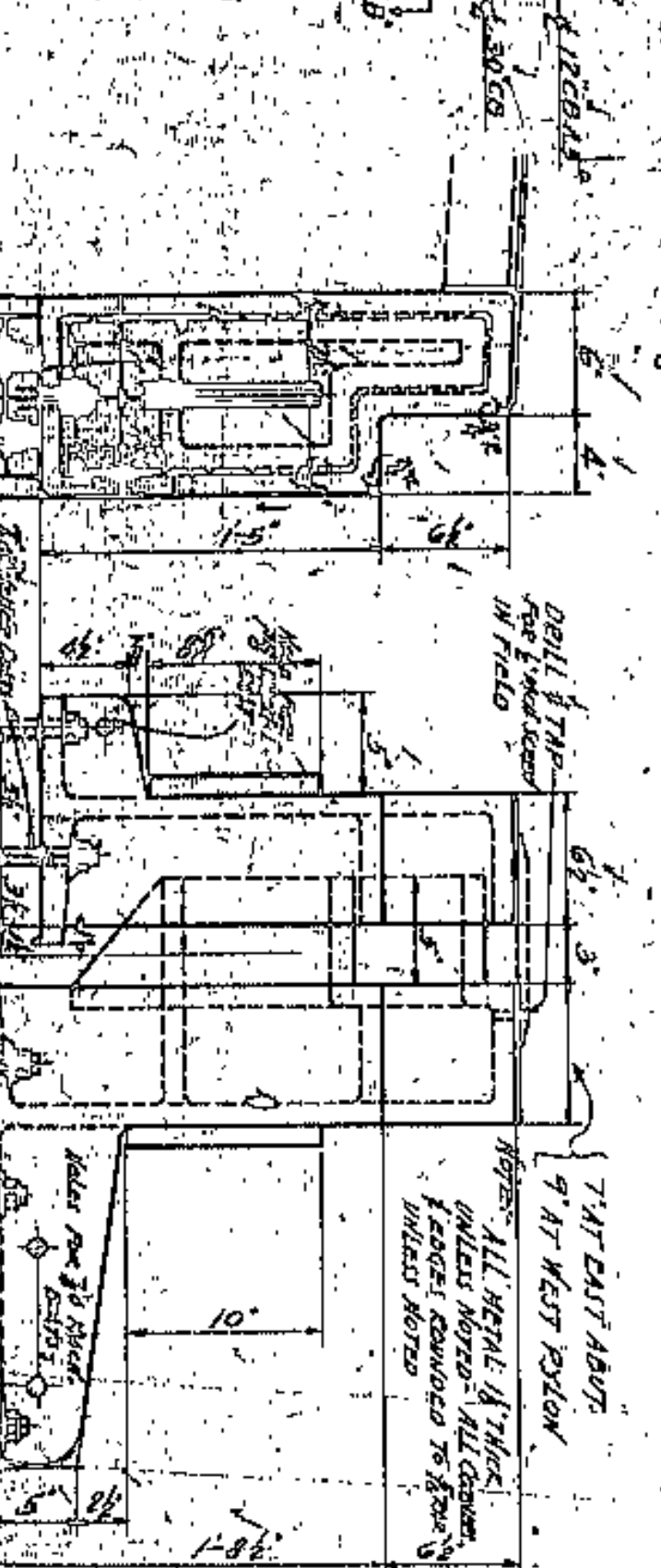
SECTION THRU CLEANOUT SECTION  
Scale 3/4" = 1'-0"



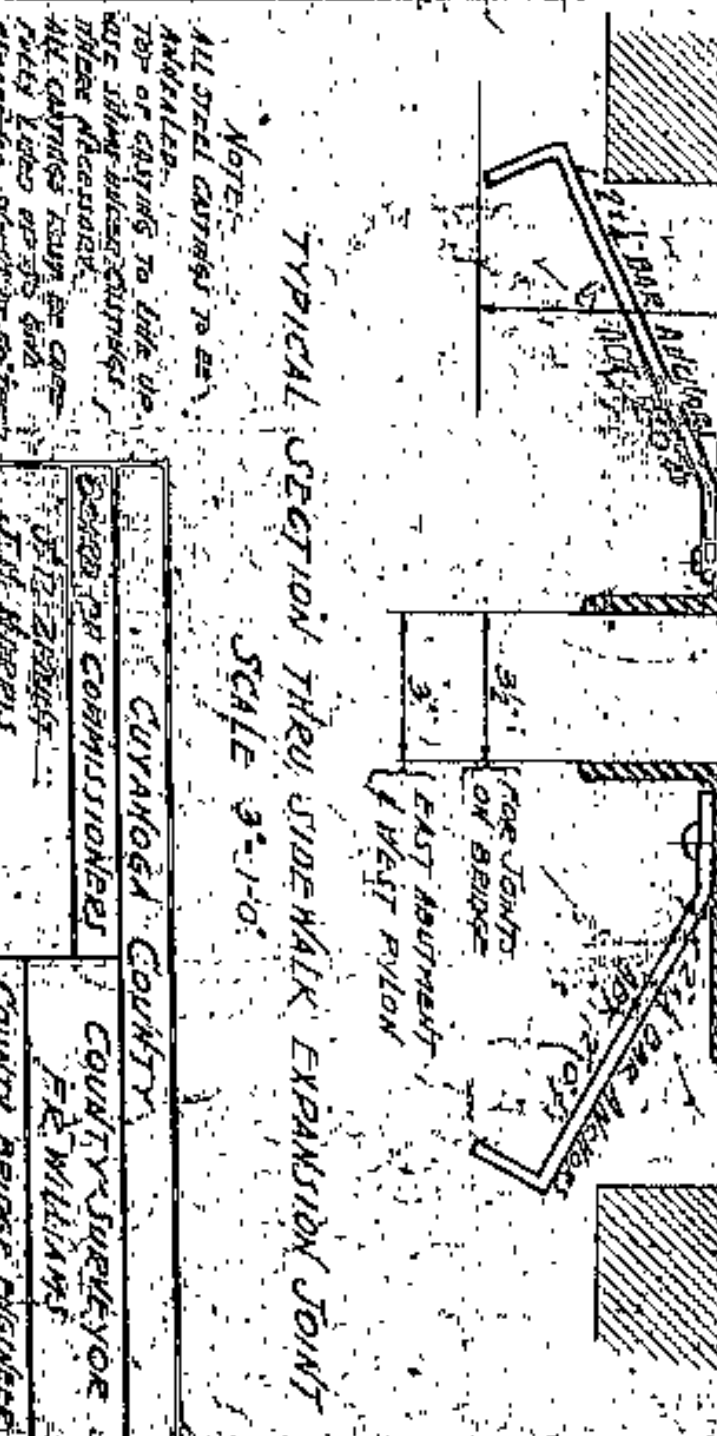
TYPICAL SECTION THRU EXPANSION JOINT  
Scale 3/4" = 1'-0"



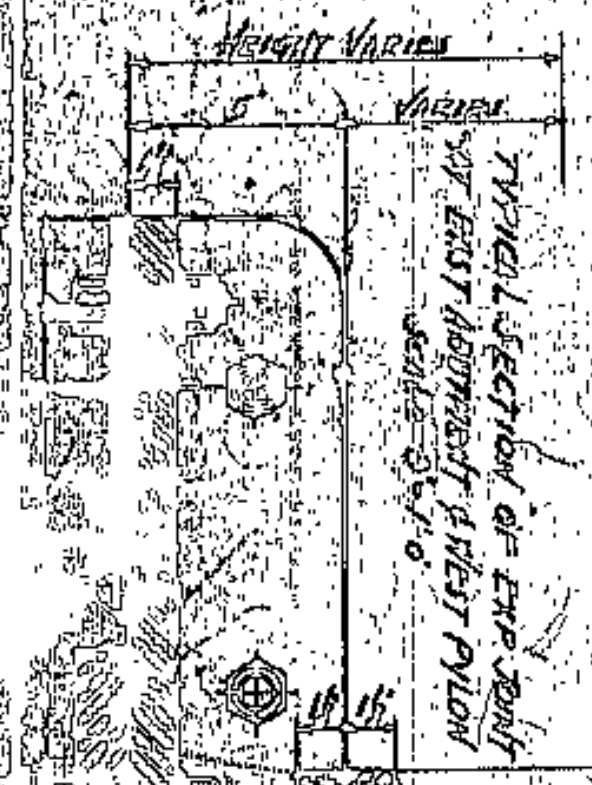
PLAN OF EXPANSION JOINT OF CAST STEEL  
Scale 1/4" = 1'-0"



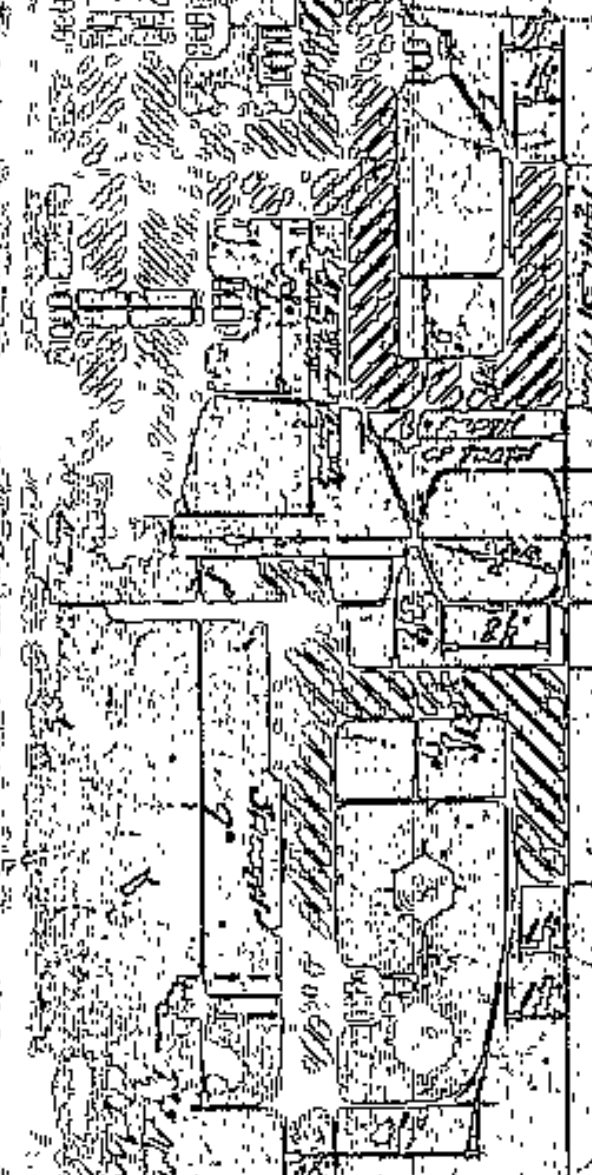
DETAIL OF CAST STEEL CURB EXPANSION JOINT ON BRIDGE  
Scale 1/4" = 1'-0"



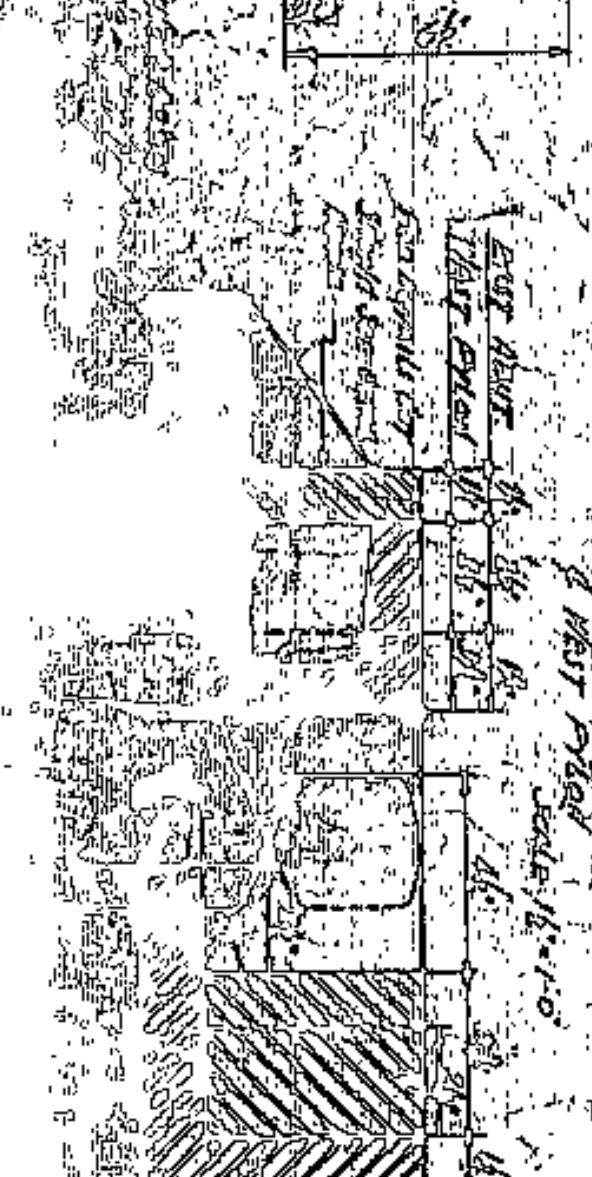
TYPICAL SECTION THRU SIDEWALK EXPANSION JOINT  
Scale 3/4" = 1'-0"



TYPICAL SECTION OF EXPANSION JOINT OF CAST STEEL  
Scale 1/4" = 1'-0"



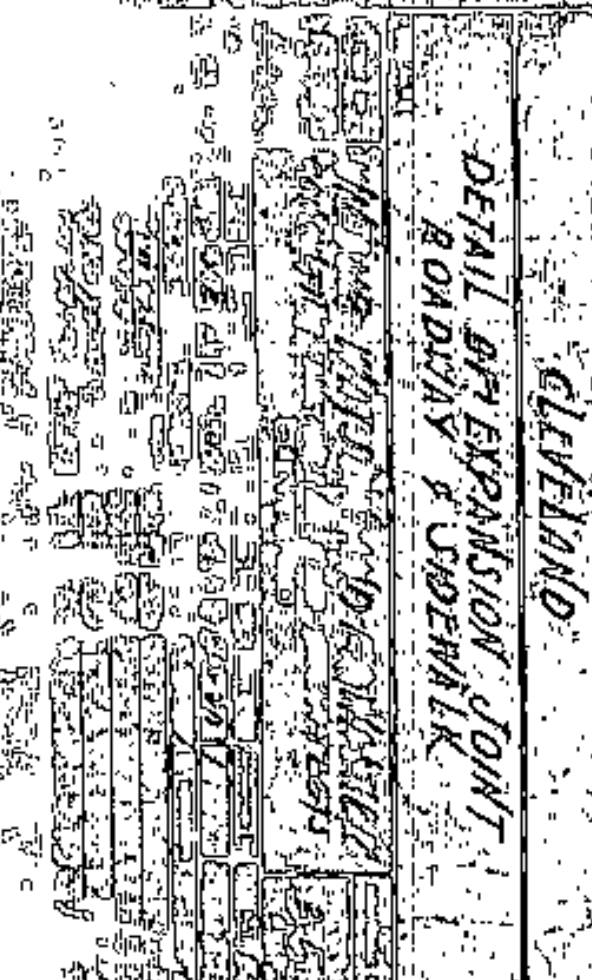
DETAIL OF CAST STEEL CURB EXPANSION JOINT ON BRIDGE  
Scale 1/4" = 1'-0"



DETAIL OF CAST STEEL CURB EXPANSION JOINT ON BRIDGE  
Scale 1/4" = 1'-0"



DETAIL OF CAST STEEL CURB EXPANSION JOINT ON BRIDGE  
Scale 1/4" = 1'-0"



DETAIL OF EXPANSION JOINT  
Scale 1/4" = 1'-0"

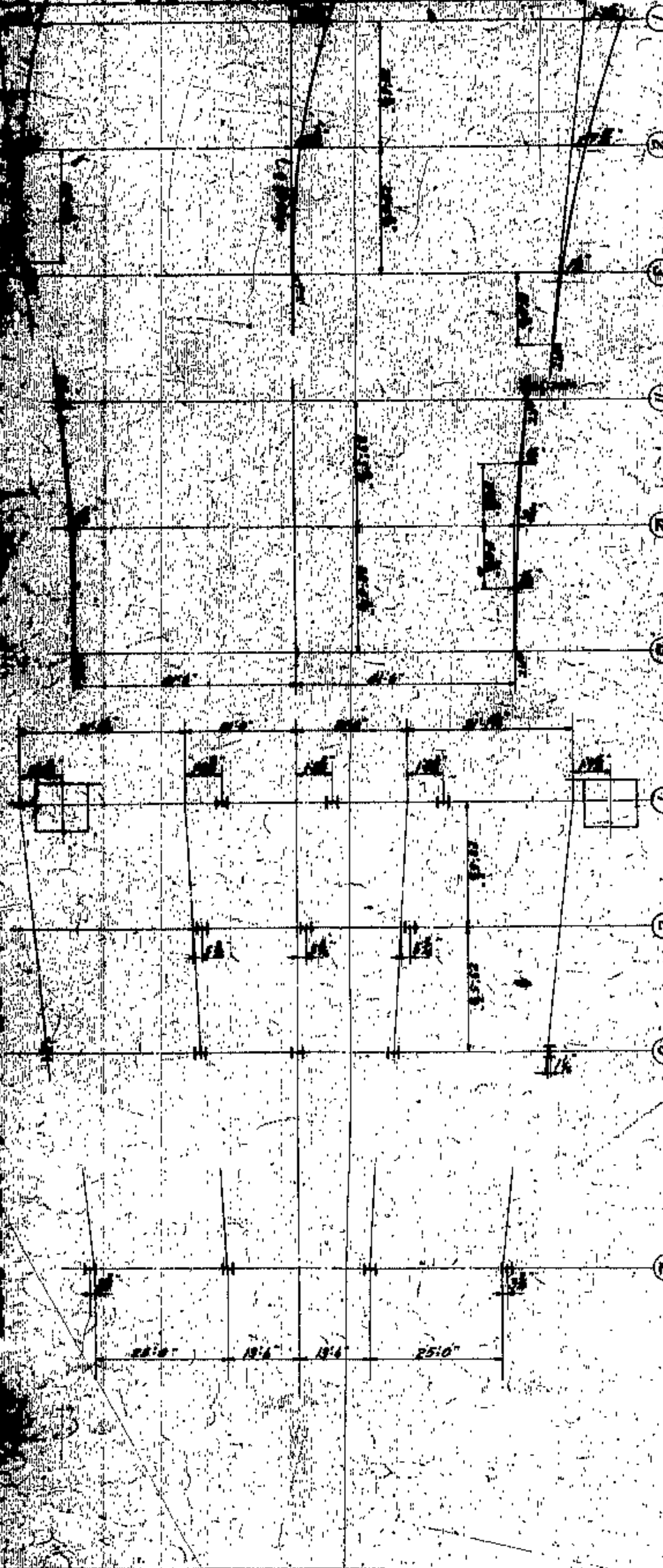
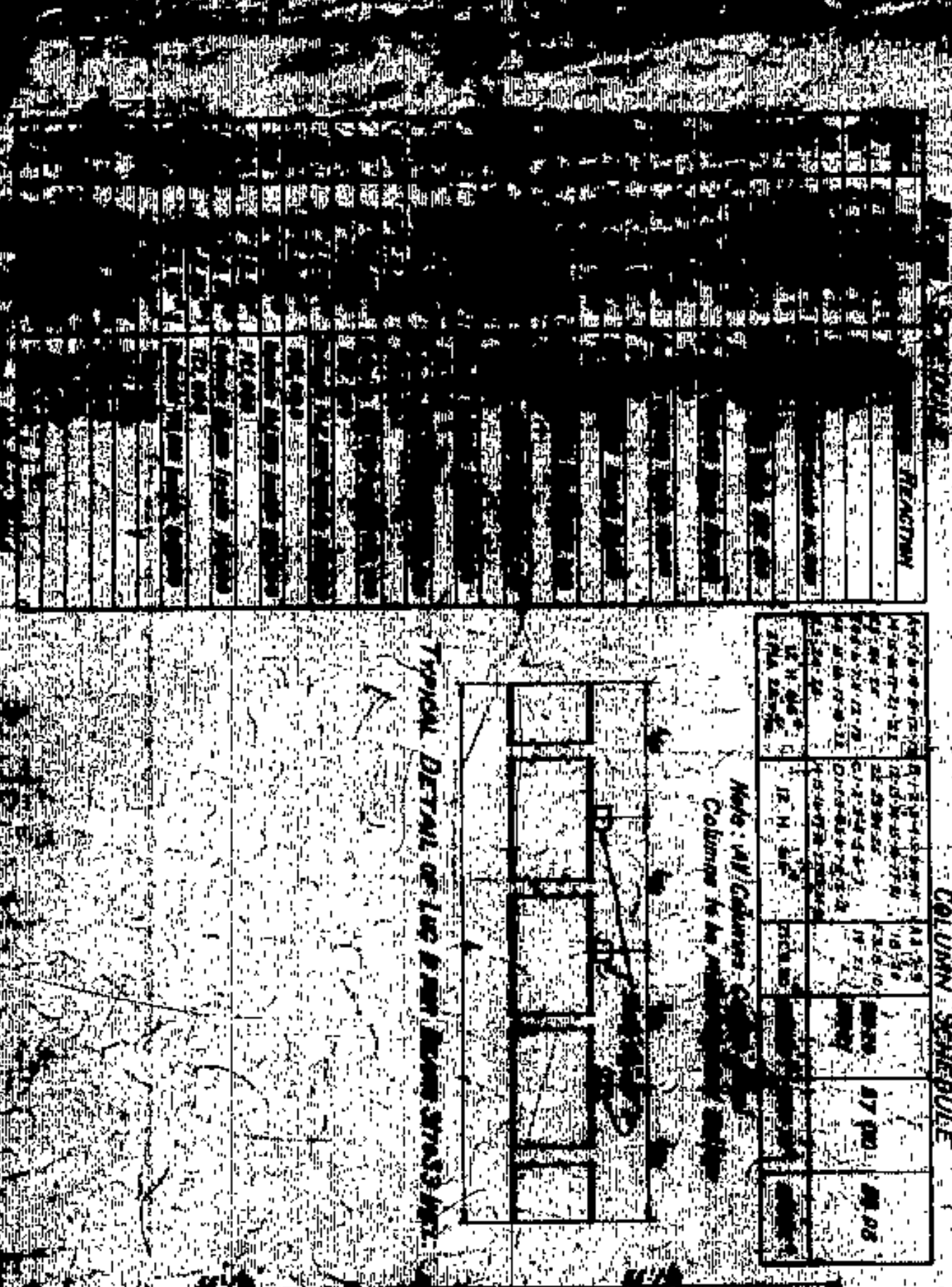
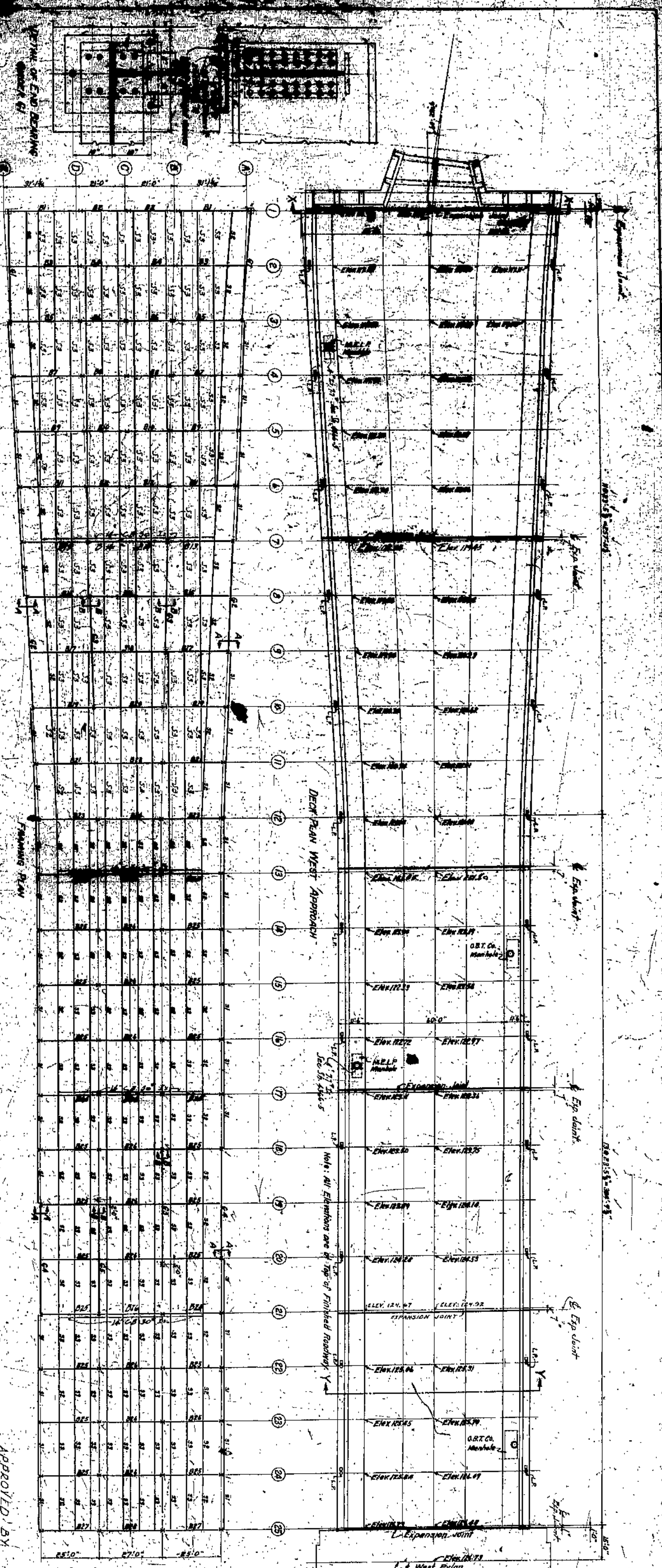
Notes:  
1. All steel castings to be made in accordance with the specifications of the American Institute of Steel Construction, Inc. (AISC) and the American Iron and Steel Institute (AISI).  
2. All castings to be made in accordance with the specifications of the American Institute of Steel Construction, Inc. (AISC) and the American Iron and Steel Institute (AISI).  
3. All castings to be made in accordance with the specifications of the American Institute of Steel Construction, Inc. (AISC) and the American Iron and Steel Institute (AISI).  
4. All castings to be made in accordance with the specifications of the American Institute of Steel Construction, Inc. (AISC) and the American Iron and Steel Institute (AISI).  
5. All castings to be made in accordance with the specifications of the American Institute of Steel Construction, Inc. (AISC) and the American Iron and Steel Institute (AISI).

LORAIN CENTRAL BRIDGE  
CLEVELAND

DETAIL OF EXPANSION JOINT  
ROBURNS & SUDENWALK

GENERAL CONTRACTOR  
COUNTY SUPERVISOR  
COUNTY ENGINEER  
COUNTY BOARD OF PUBLIC WORKS





APPROVED BY

*[Signature]*

CO. ENGINEER

CUYAHOGA COUNTY

BOARD OF COMMISSIONERS

J. E. WILLIAMS

J. H. HARRIS

W. E. COOK

COUNTY BRIDGE ENGINEER

A. M. SELBATE

LORDAIN CENTRAL BRIDGE

CLEVELAND

DECK PLAN WEST APPROACH

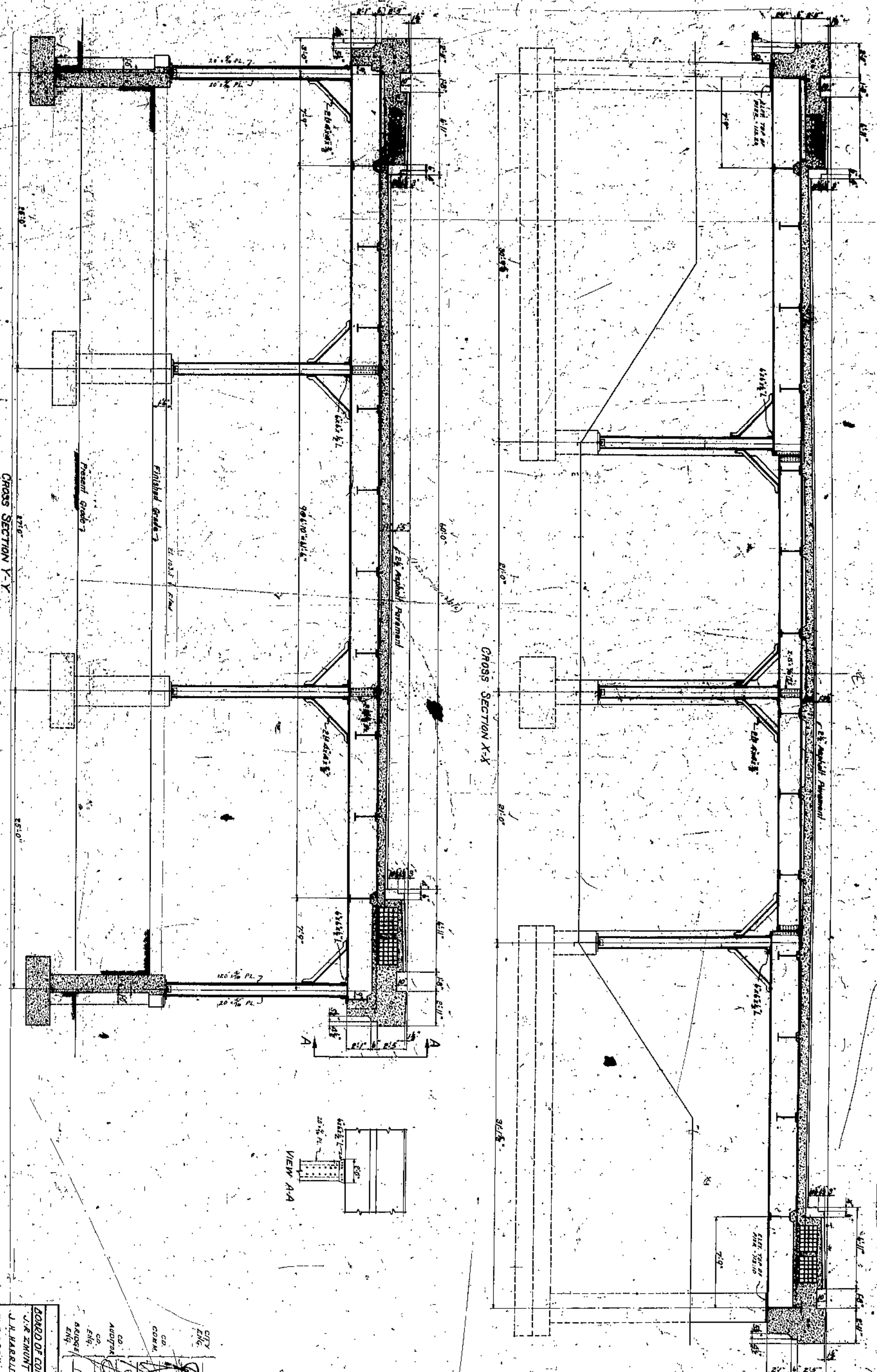
WILBUR, NATION AND WALKER

CONSULTING ENGINEERS AND ARCHITECTS

365

SCALE 1" = 8'





APPROVED BY

CITY  
ENR.  
CO. CORN.  
CO. ANGLE  
CO. FILE  
ASSIST.  
ENR.

*W. E. Cook*  
W. E. COOK

*W. E. Cook*  
W. E. COOK

*W. E. Cook*  
W. E. COOK

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SHERIFF  
COUNTY BRIDGE ENGINEER

J. H. ZIMONT  
A. M. FELGATE

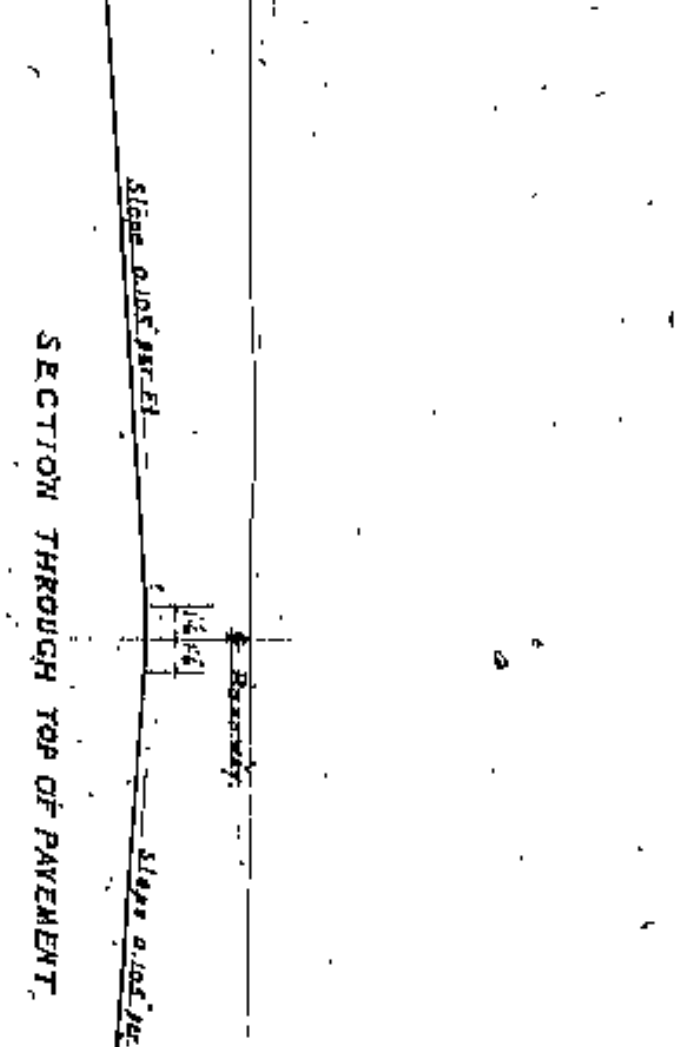
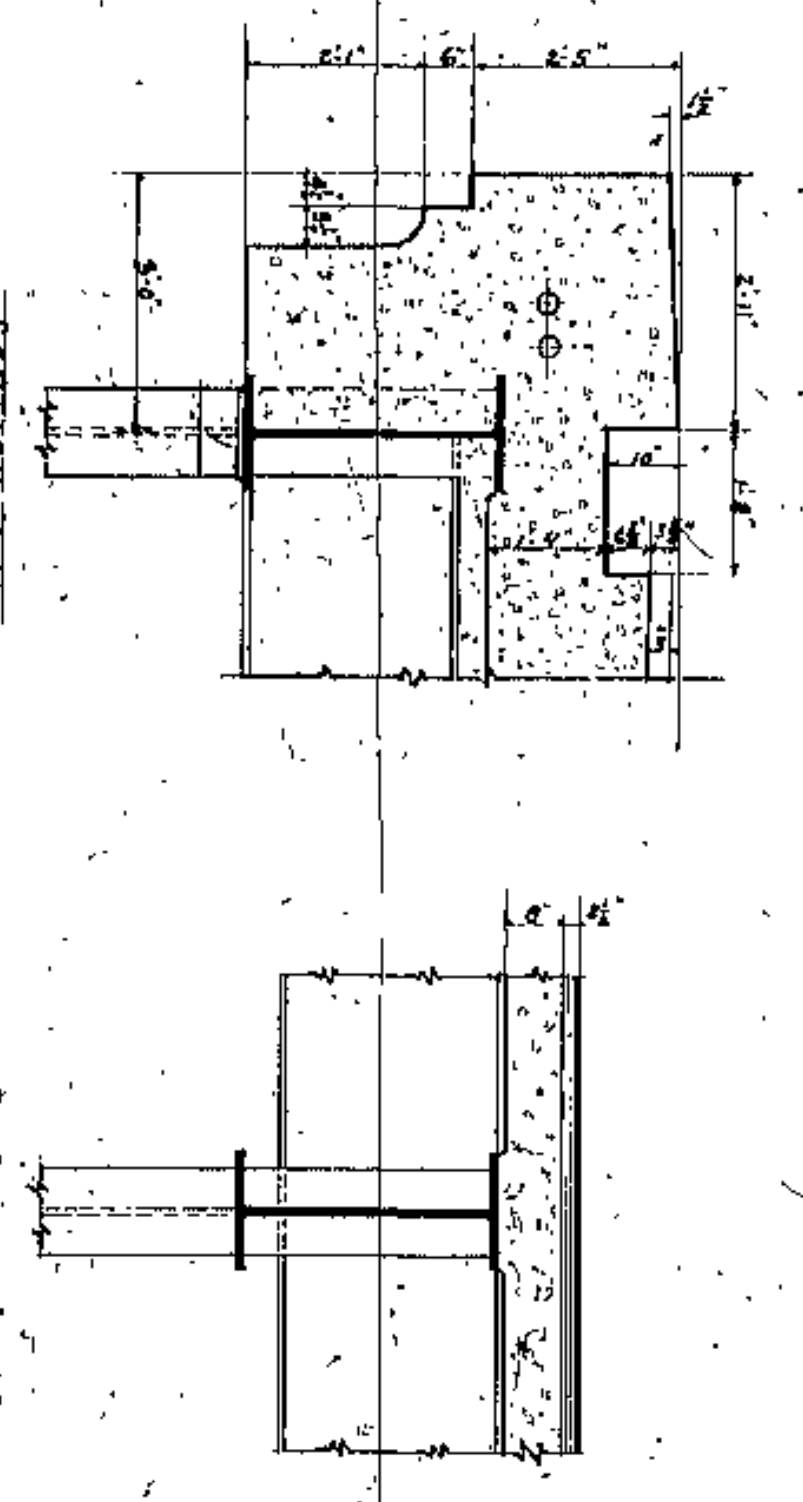
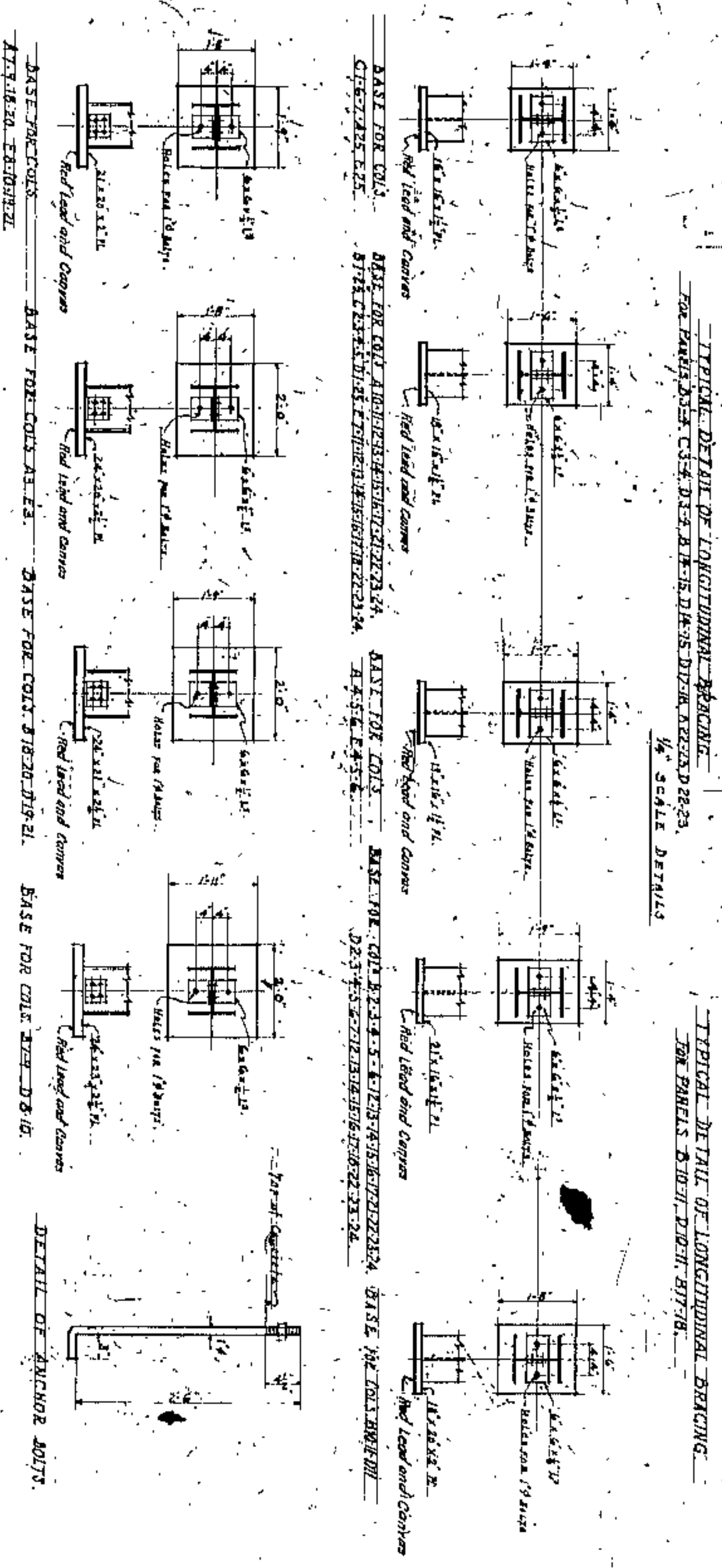
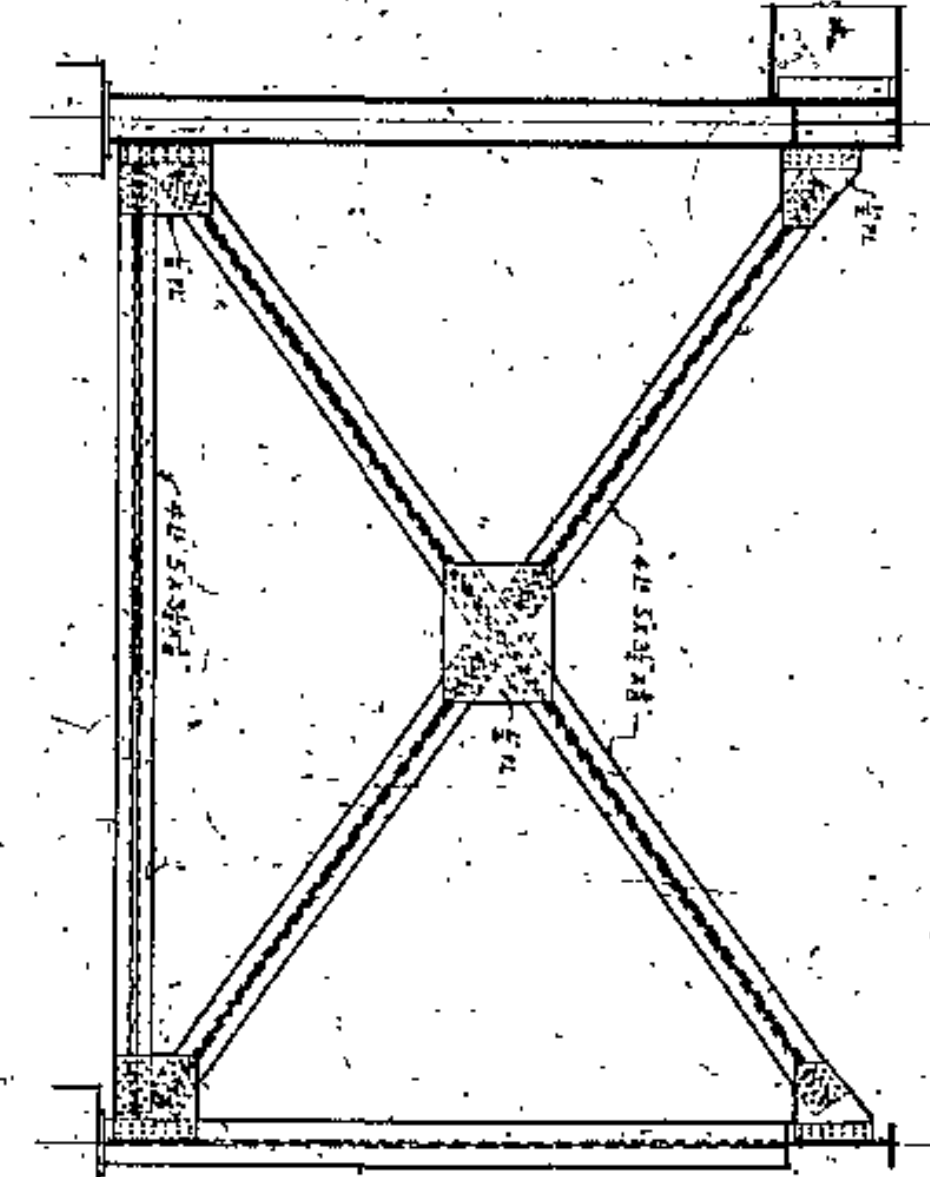
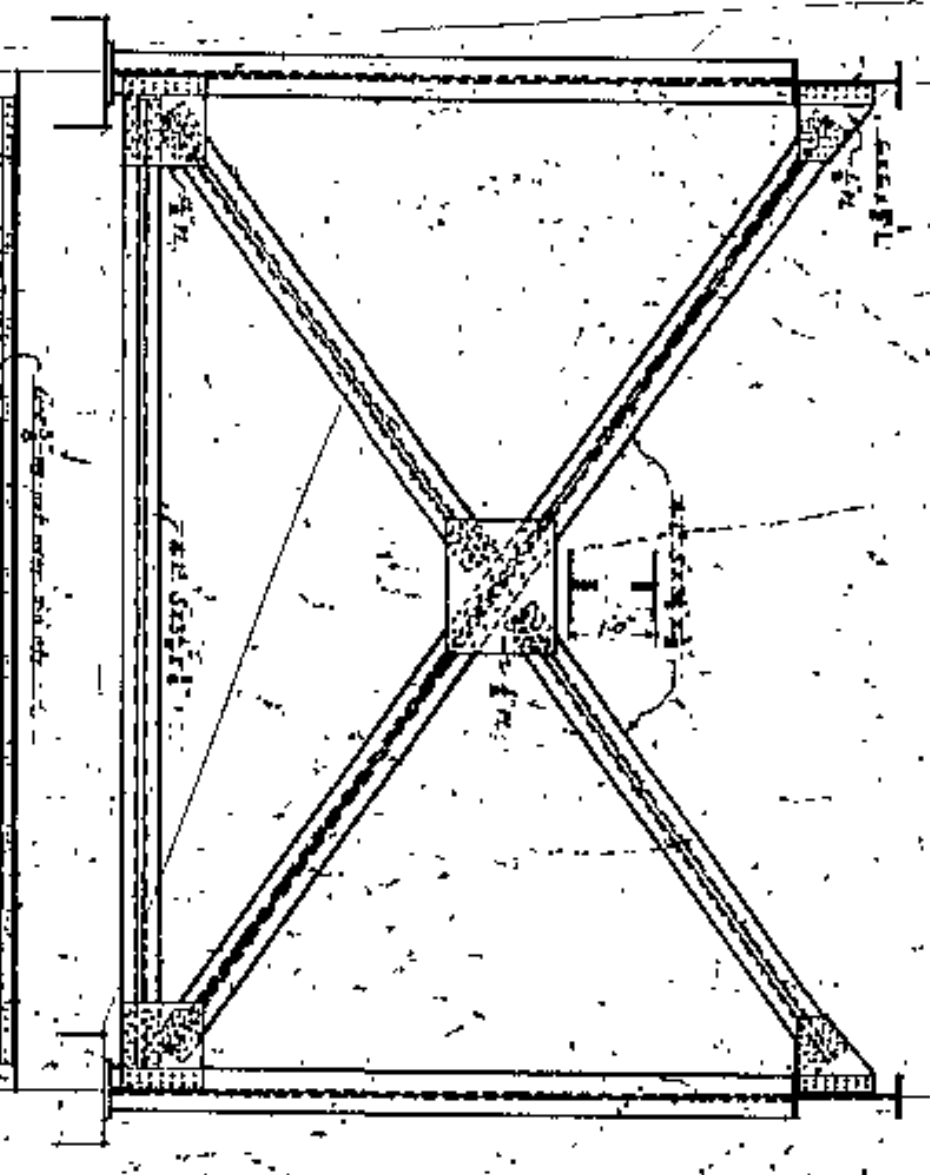
W. E. COOK

CROSS SECTIONS  
WEIR APPROACH

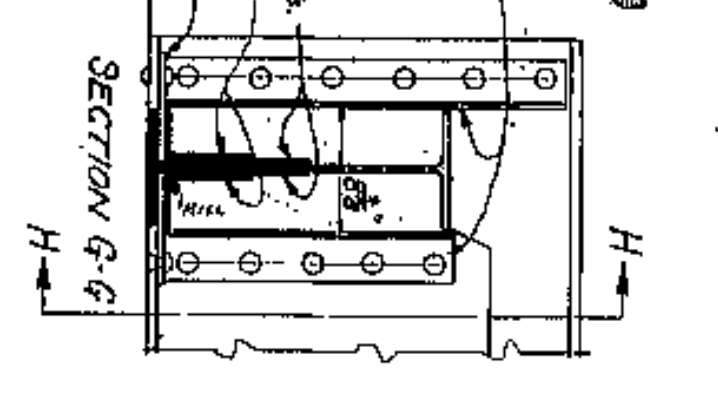
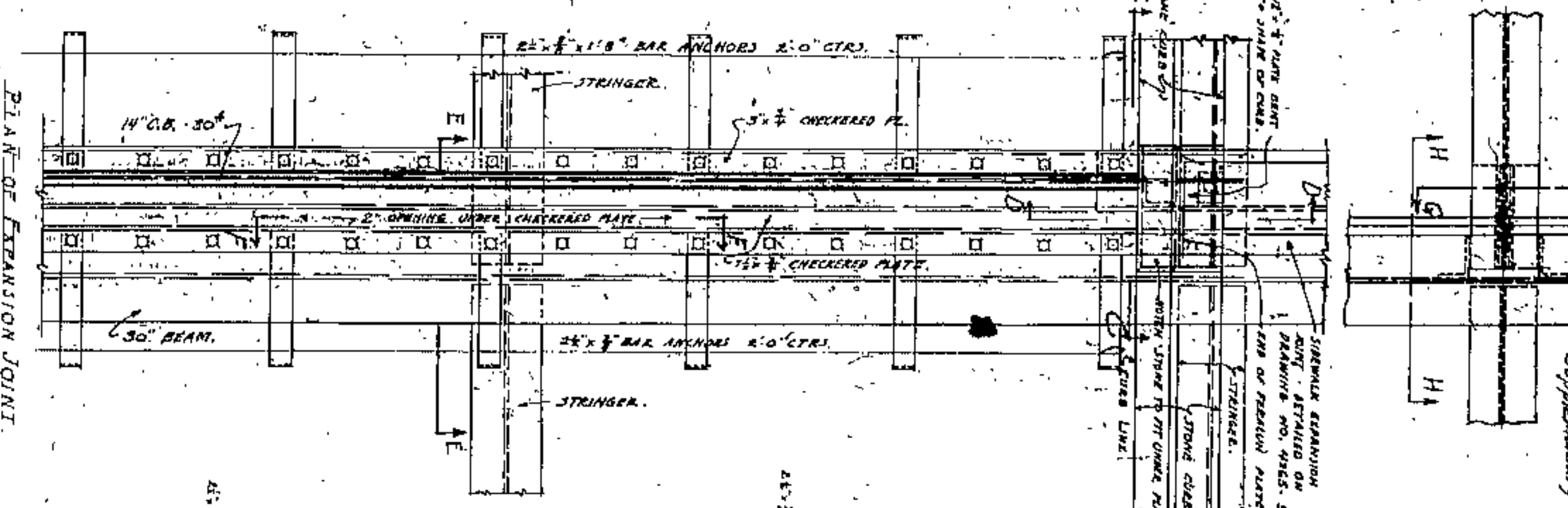
PROJECT	WILBUR NACON AND F. D. WALKER
CONSULTING ENGINEERS AND ARCHITECTS	CLEVELAND
DATE	1915
NO.	371



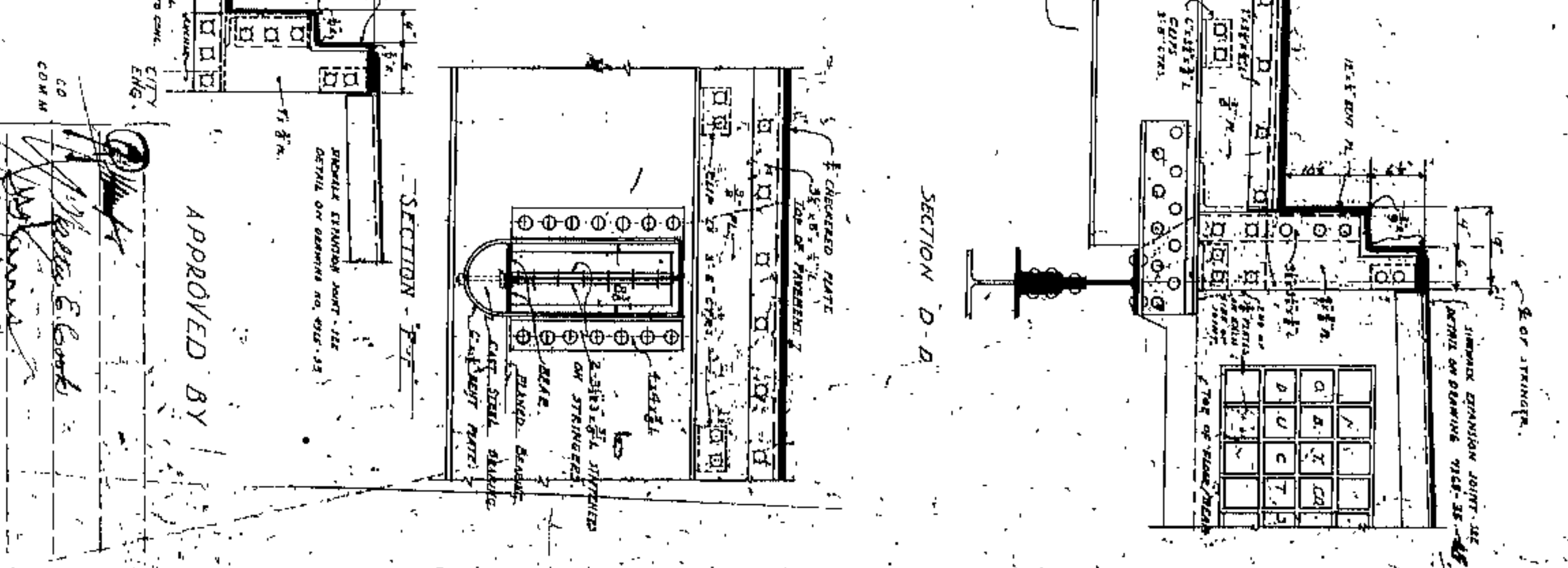
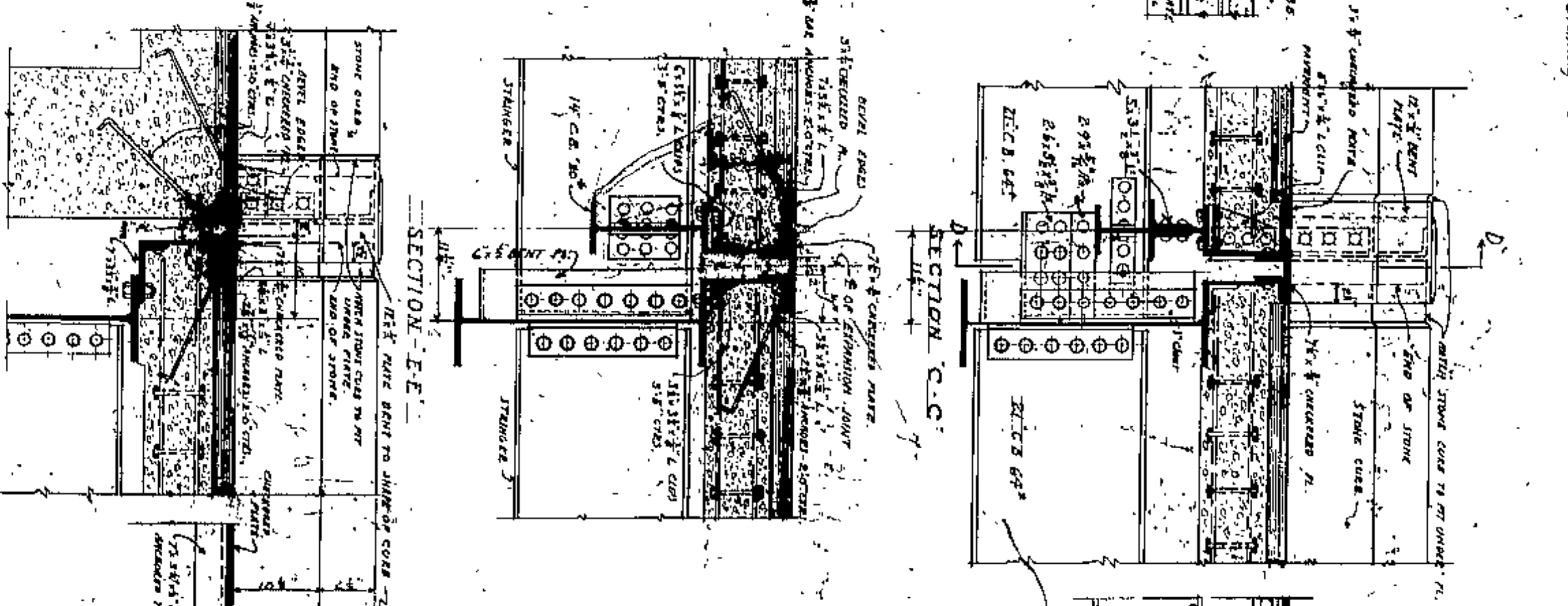
See Standard Expansion Joint Detail on Supplementary Drawing 246



1/2" SCALE DETAILS



1" SCALE DETAILS



APPROVED BY

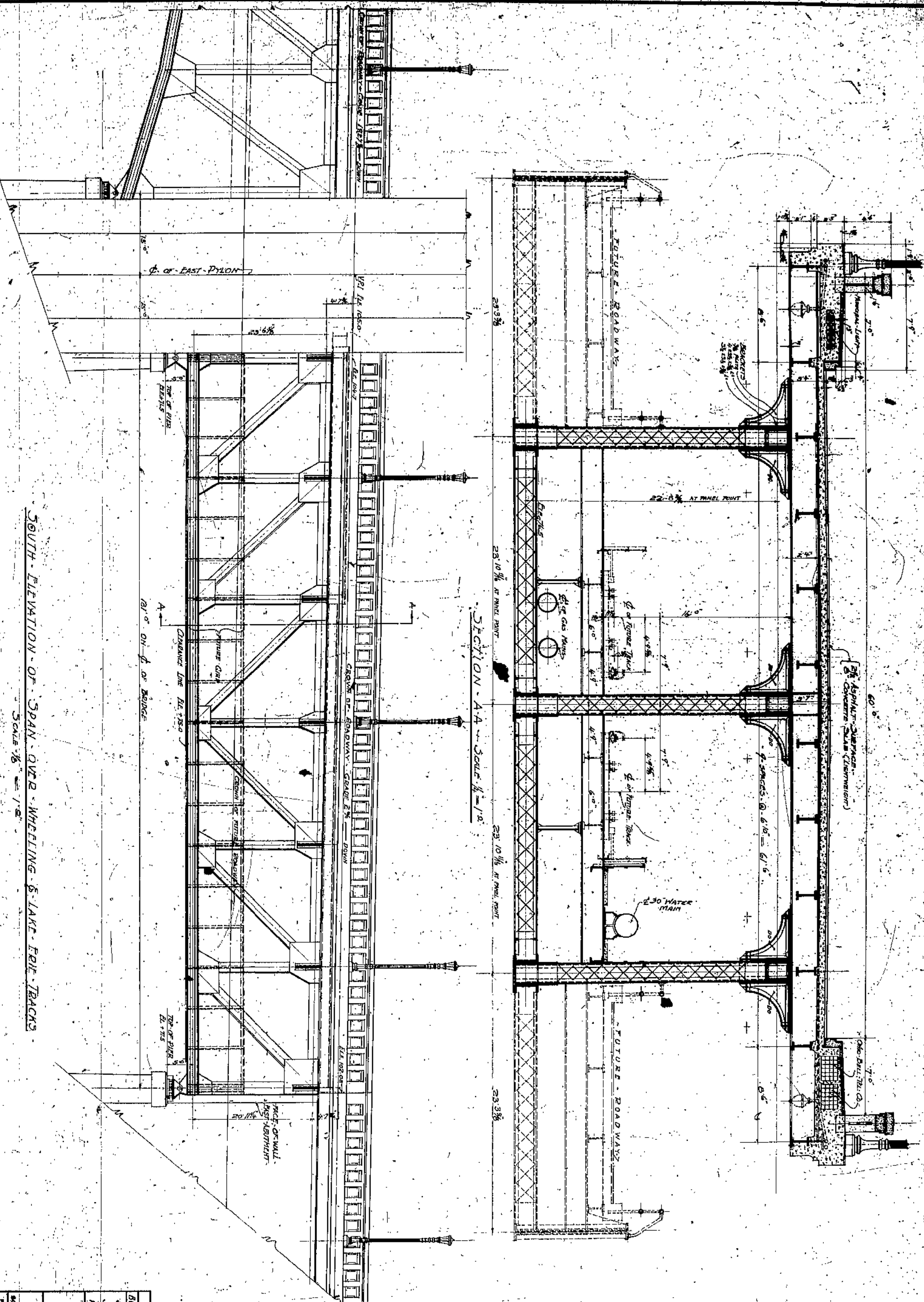
CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SURVEYOR  
F. R. WILLIAMS  
COUNTY BRIDGE ENGINEER  
A. M. FELGATE

LORAIN CENTRAL BRIDGE  
CLEVELAND

WEST APPROACH  
STRUCTURAL DETAILS

NO.	4365	WILLIAMS, WATSON AND FRAWLKER CONSULTING ENGINEERS AND ARCHITECTS CLEVELAND, OHIO	DRAWING NO.	38
DATE	APRIL 1912		SCALE	AS SHOWN
BY	W. J. HARRIS		CHECKED BY	A. M. FELGATE
DATE	MAY 1912		APPROVED BY	F. R. WILLIAMS
BY	A. M. FELGATE		DATE	MAY 1912





SOUTH ELEVATION OF SPAN OVER WHEELING & LAKE ERIE TRACKS  
SCALE 1/8" = 1'-0"

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

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	COUNTY SUPERVISOR
J. R. MINT	T. R. WILLIAMS
J. H. HARRIS	COUNTY BRIDGE ENGINEER
W. E. COOK	A. M. FEEGATE
<b>LORAIN CENTRAL BRIDGE</b> CLEVELAND	
SECTION & ELEVATION SPAN OVER W & L. E. TRACKS	
WILBIE WATSON AND FRANK WALKER CONSULTING ENGINEERS AND ARCHITECTS CLEVELAND	
DATE	39

APPROVED BY

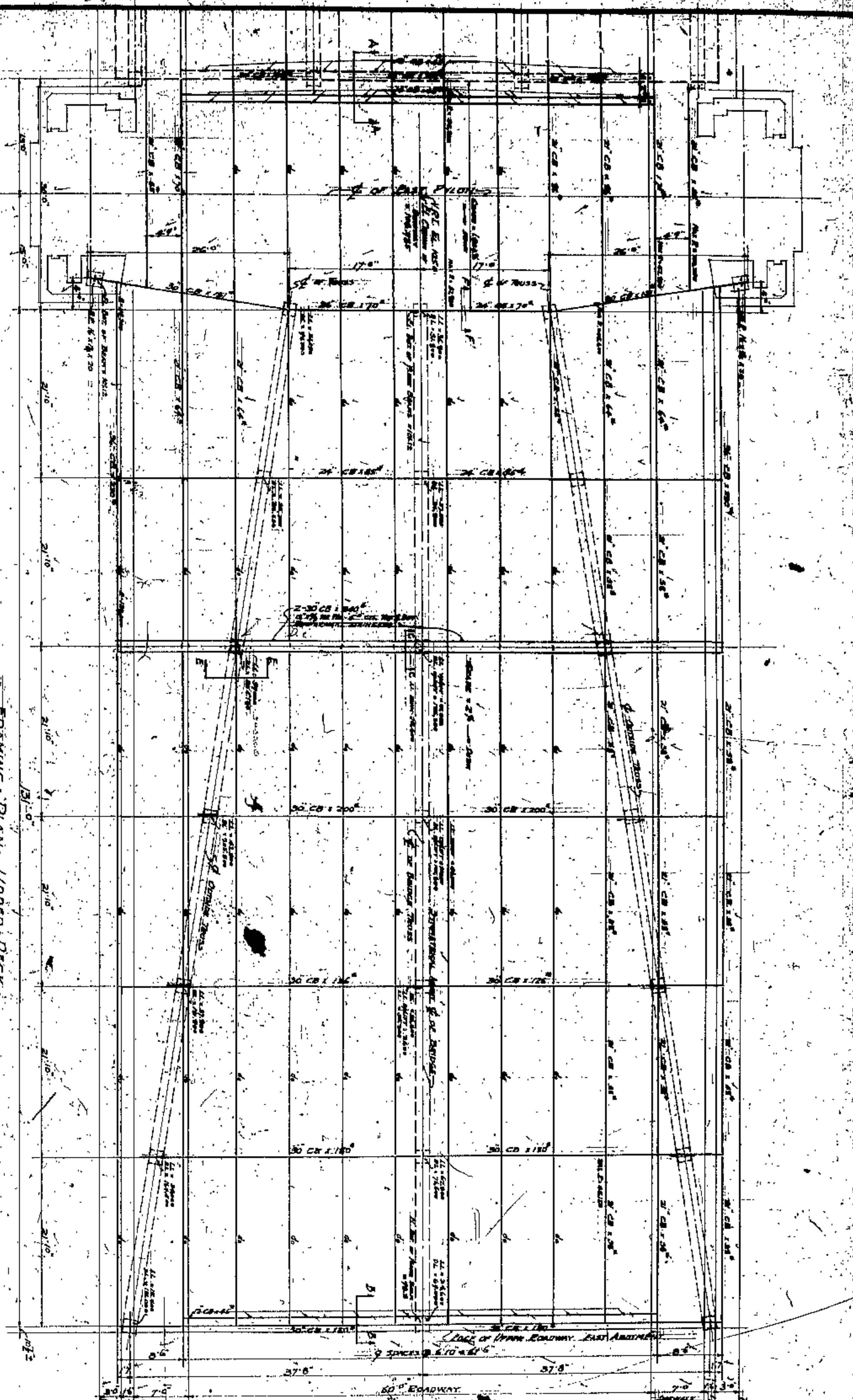
CITY ENG. *[Signature]*

CO. COMM. *[Signature]*

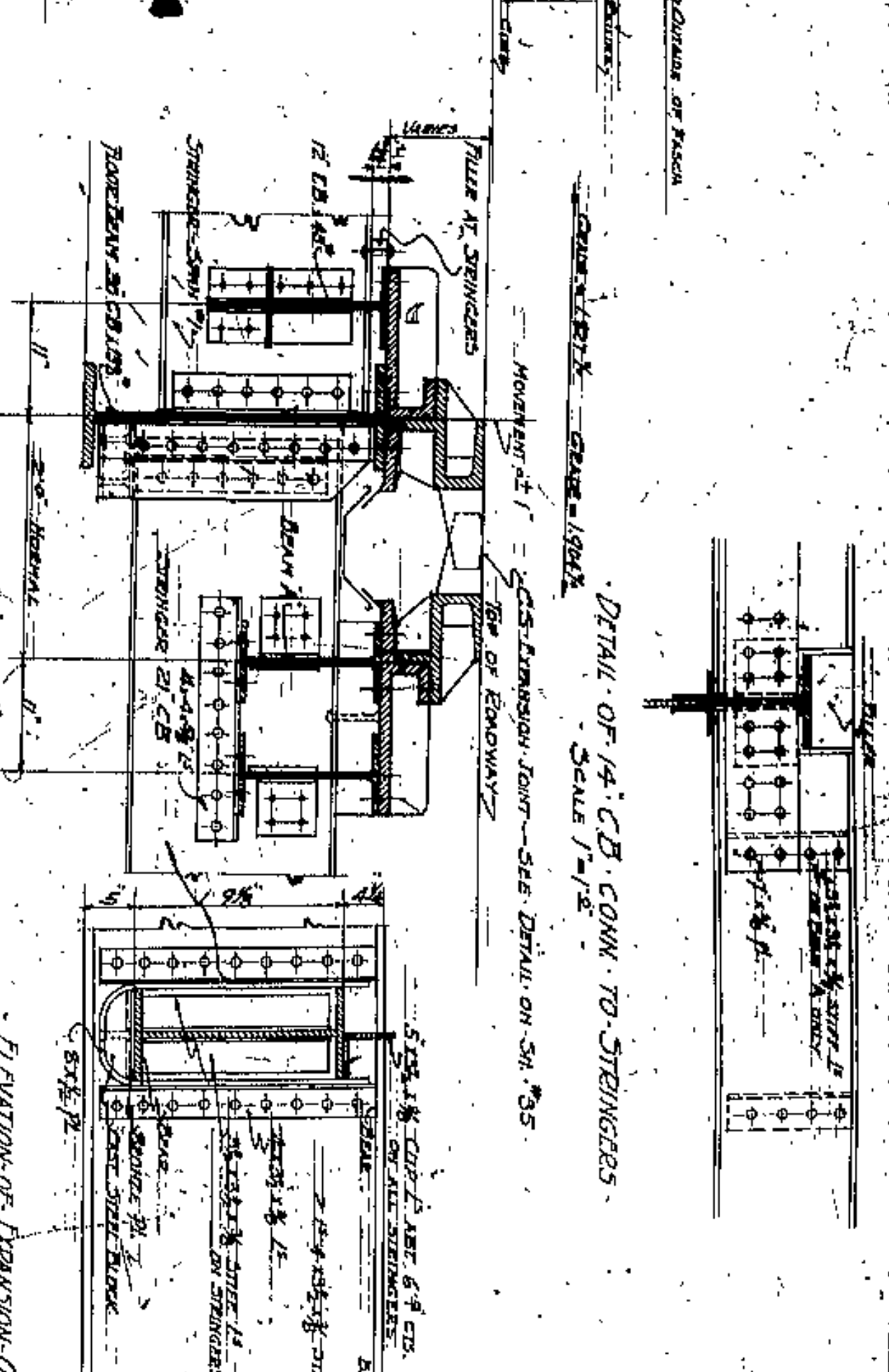
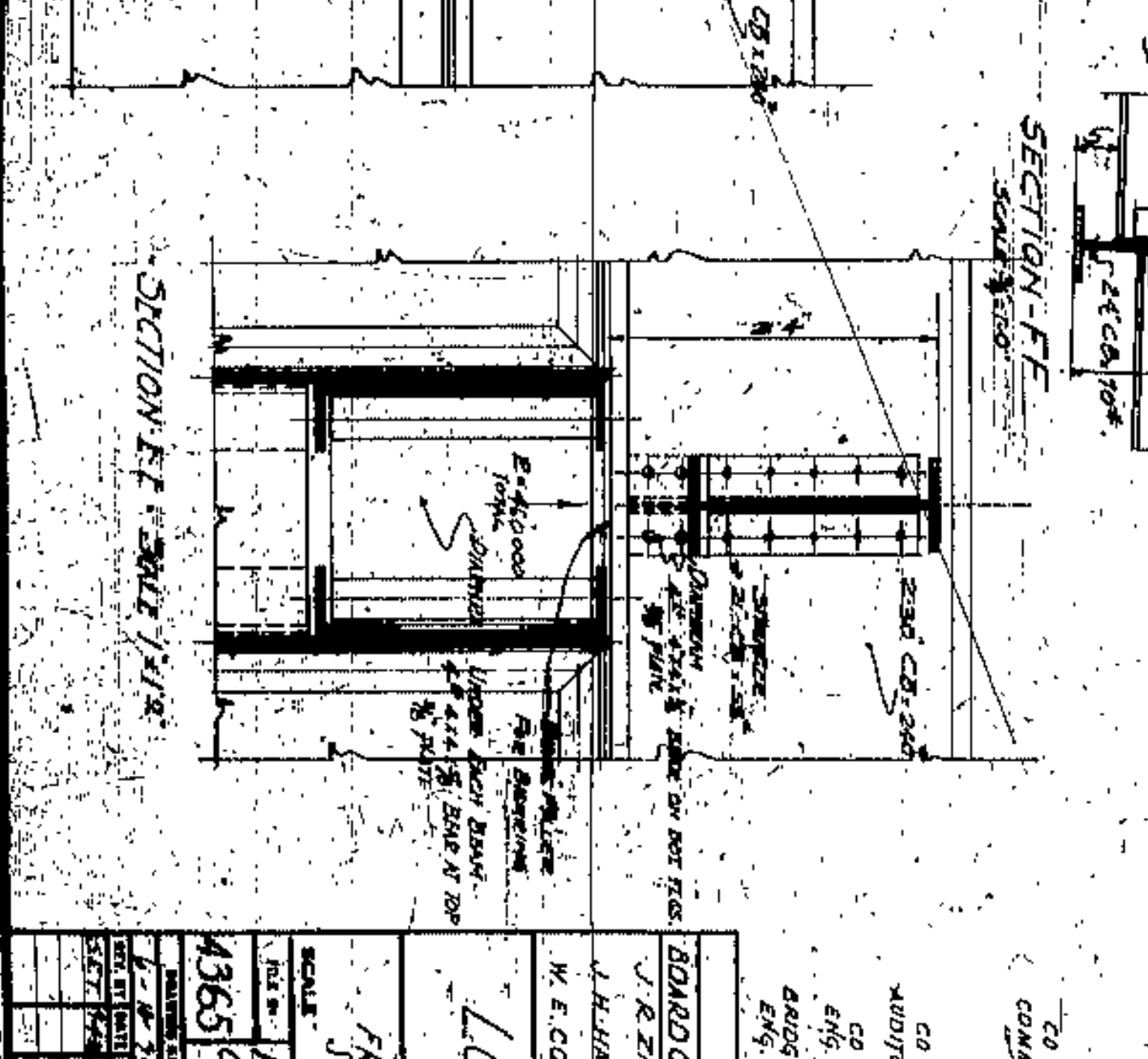
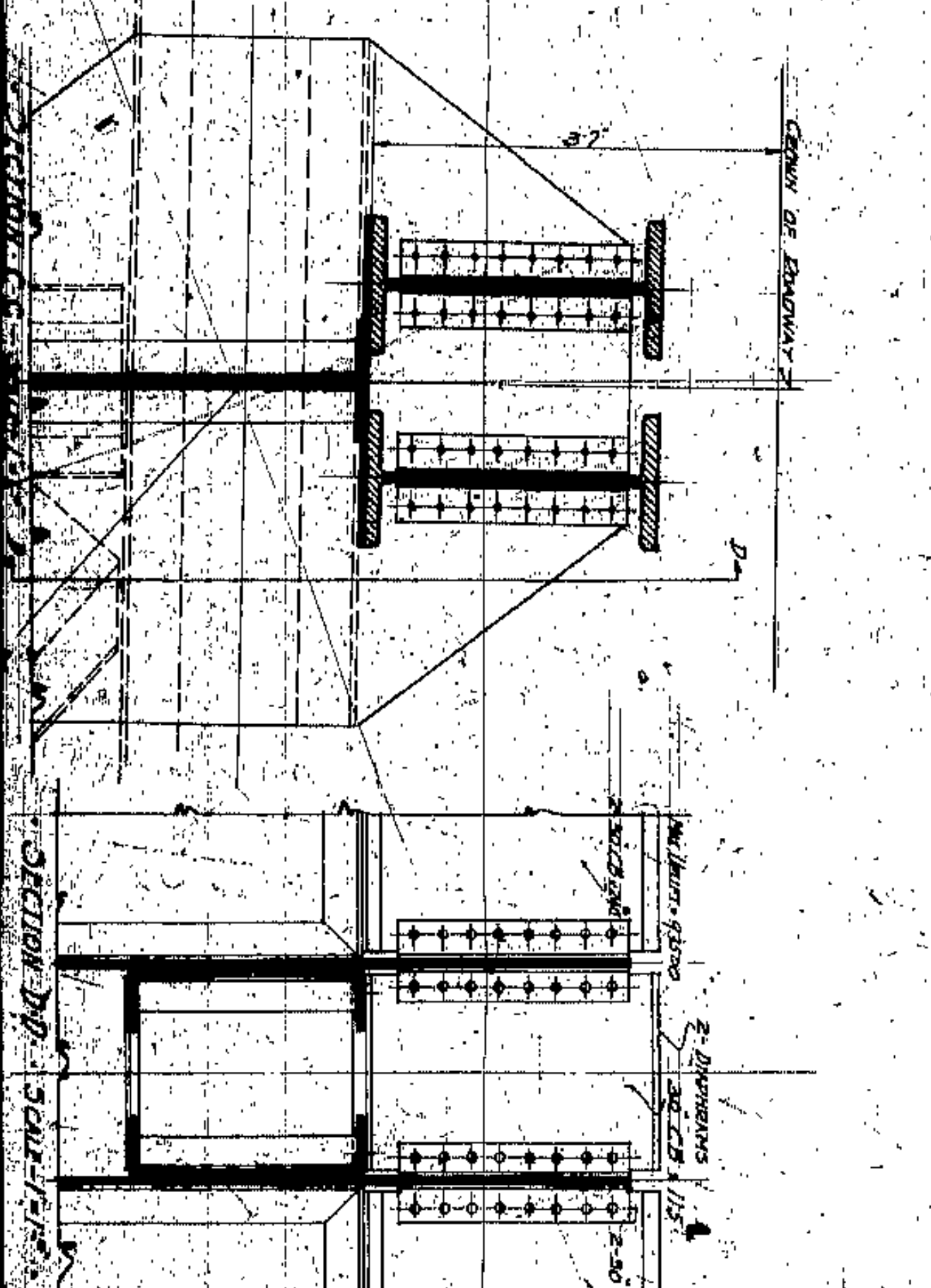
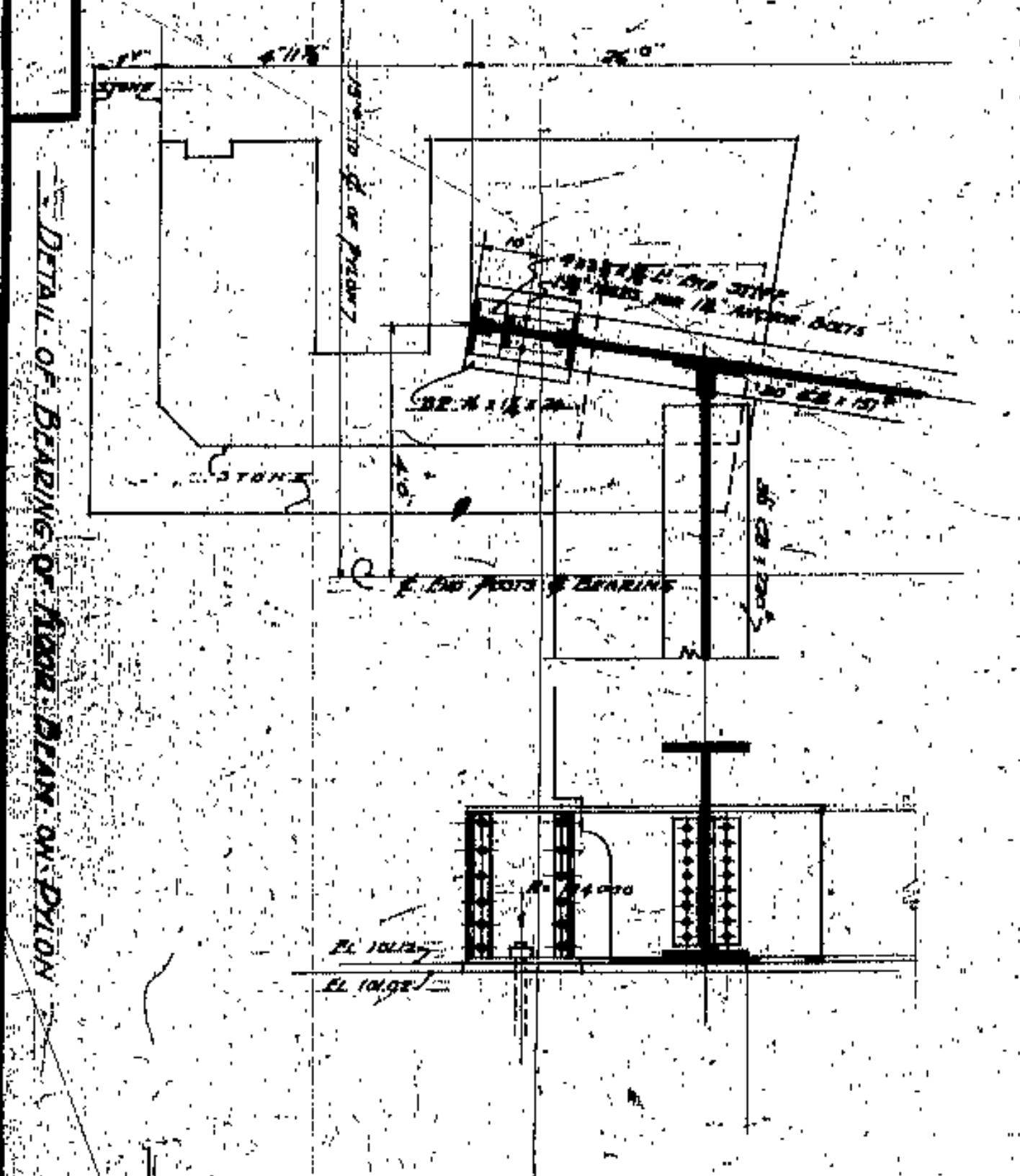
ENGR. *[Signature]*

BRIDGE ENGR. *[Signature]*

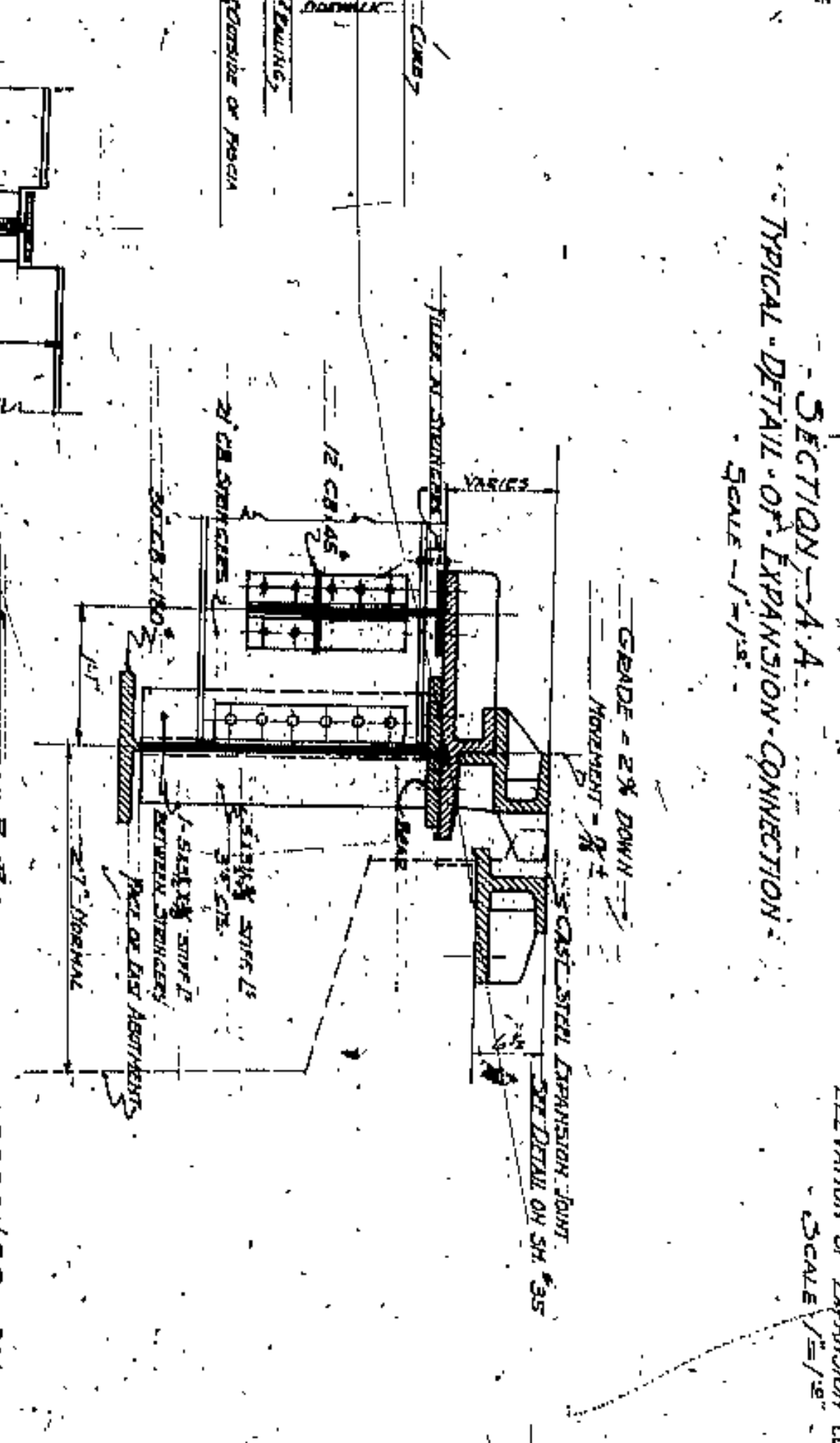




FRAMING PLAN - UPPER DECK  
SCALE - 1/8" = 1'-0"



SECTION - A-A  
TYPICAL - DETAIL OF EXPANSION CONNECTION  
SCALE - 1/2" = 1'-0"



SECTION - B-B  
SCALE - 1/2"

APPROVED BY  
*Walter E. Cook*  
CITY ENGINEER

CUYAHOGA COUNTY  
BOARD OF COMMISSIONERS  
COUNTY SURREYOR  
F. A. WILLIAMS  
COUNTY BRIDGE ENGINEER  
A. M. FELGATE  
W. E. COOK

LORAIN CENTRAL BRIDGE  
CLEVELAND

FRAMING PLAN FOR UPPER DECK  
SPAN OVER W. S. L. E. TRACKS

WILBUR WATSON AND F. WALKER  
CONSULTING ENGINEERS AND ARCHITECTS  
CLEVELAND

4365  
40

DATE	REVISION	BY	REASON
11-1-22	1	W. E. COOK	ISSUED
11-1-22	2	W. E. COOK	REVISED
11-1-22	3	W. E. COOK	REVISED
11-1-22	4	W. E. COOK	REVISED
11-1-22	5	W. E. COOK	REVISED
11-1-22	6	W. E. COOK	REVISED
11-1-22	7	W. E. COOK	REVISED
11-1-22	8	W. E. COOK	REVISED
11-1-22	9	W. E. COOK	REVISED
11-1-22	10	W. E. COOK	REVISED

DETAIL OF BEARING OF FLOOR BEAM ON PYLON

SECTION D-D SCALE 1/2"

SECTION E-E SCALE 1/2"

DETAIL OF 14" C.B. CONN. TO STRINGERS  
SCALE 1/2" = 1'-0"

ELEVATION OF EXPANSION CONNECTION  
SCALE 1/2" = 1'-0"





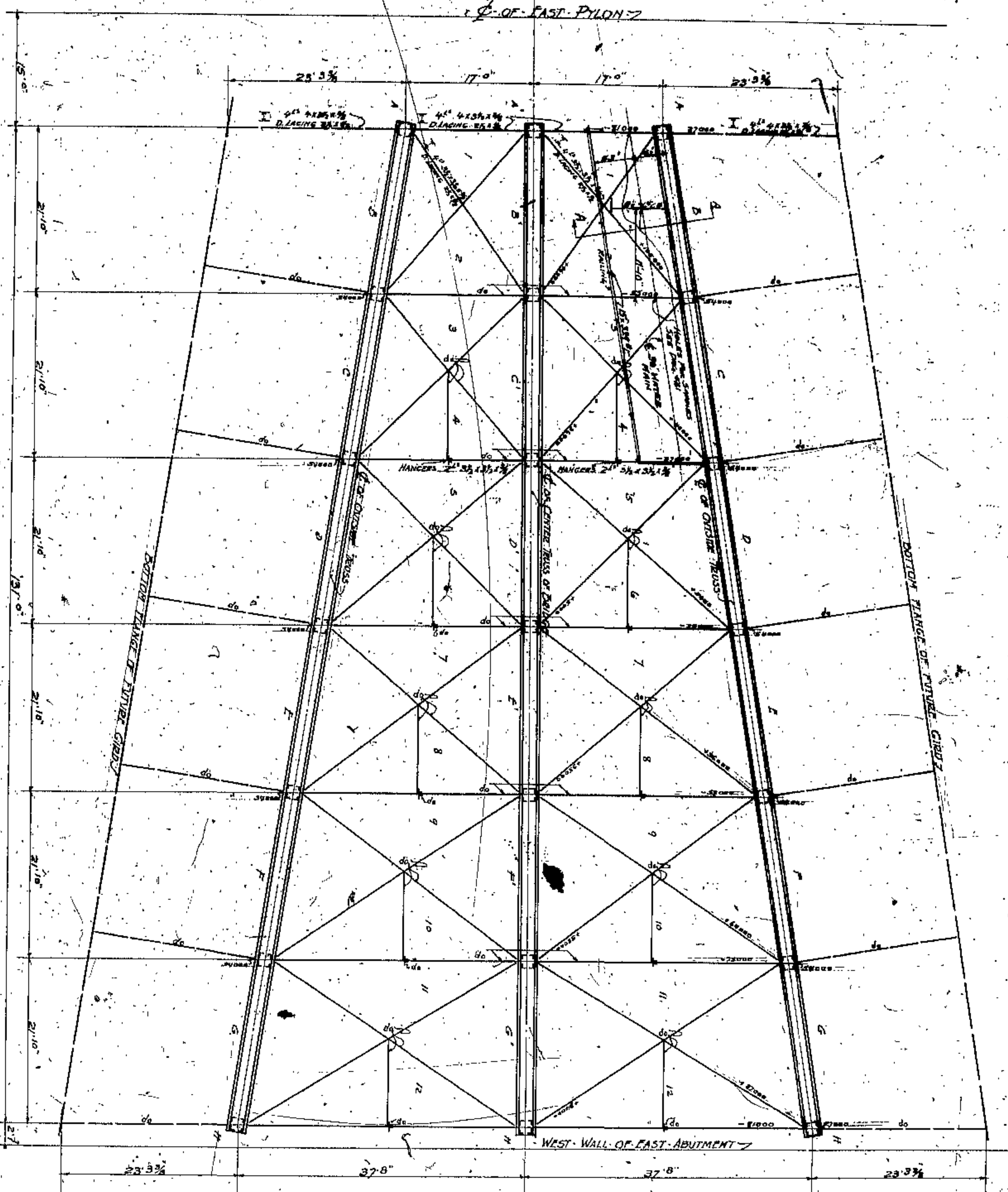




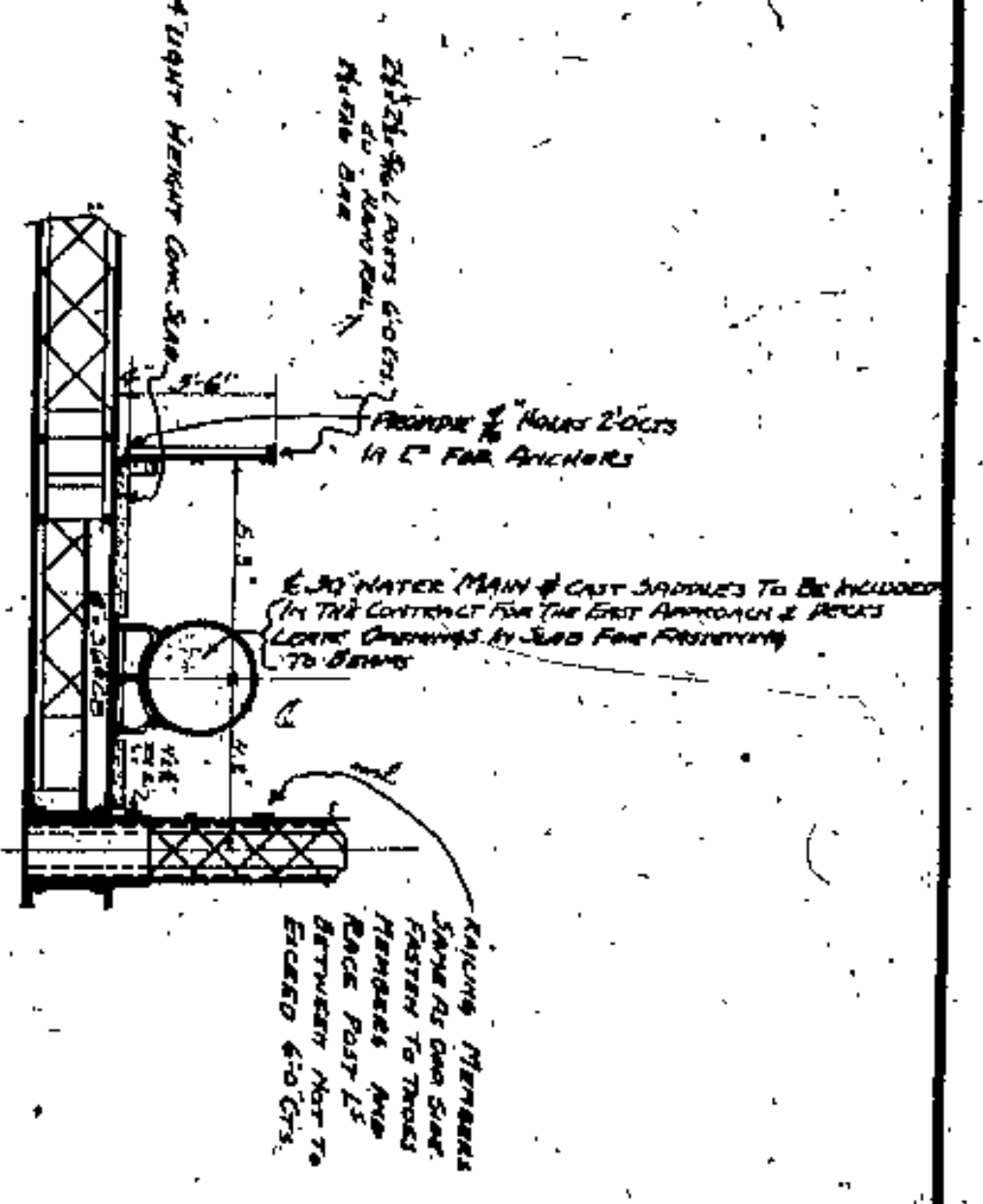




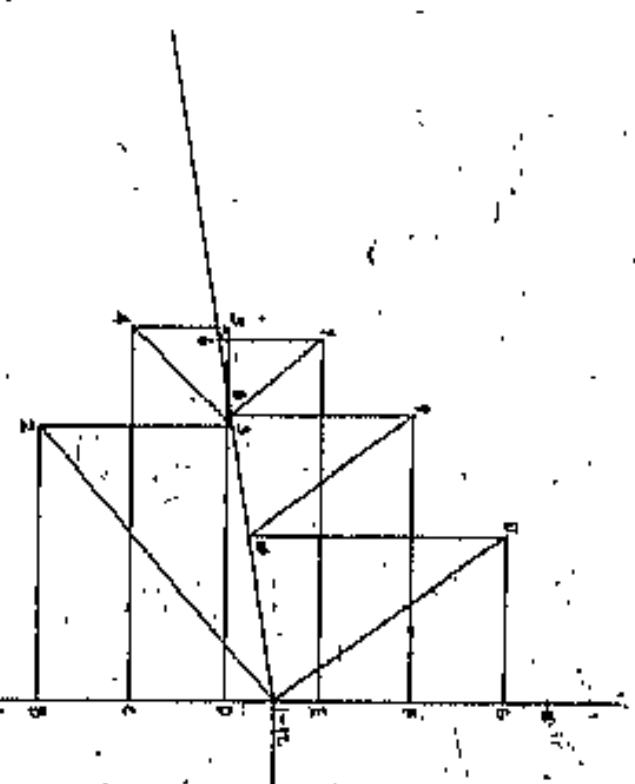




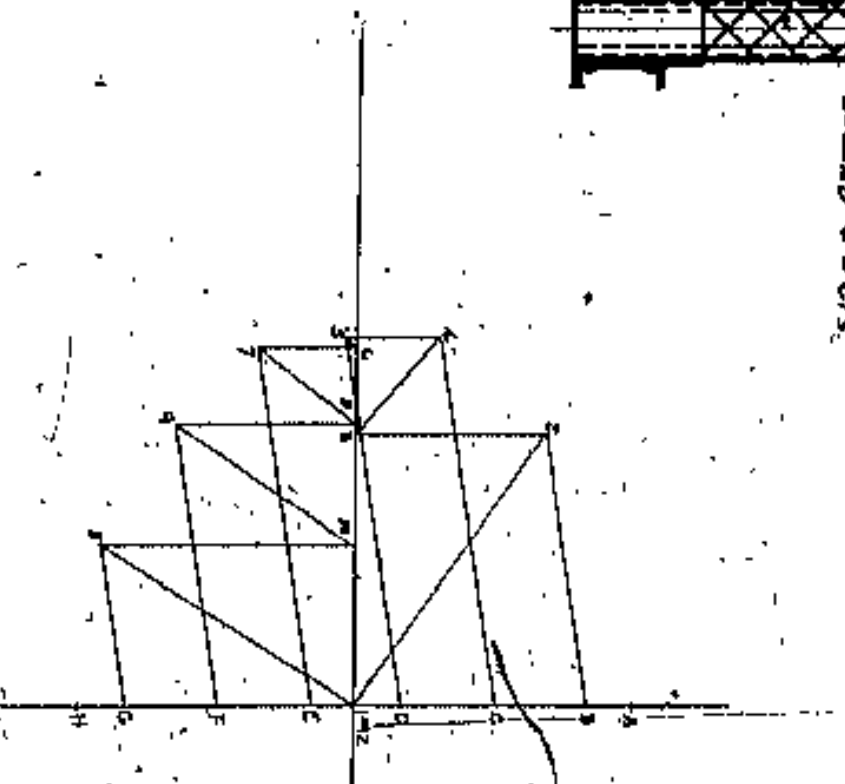
LAYOUT OF LATERAL BRACING  
 FUTURE CONSTRUCTION: SHOWING THIS  
 SCALE: 1/8" = 1'-0"



SECTION-AA  
 SCALE: 1/8" = 1'-0"



WIND LOAD STRESS DIAGRAM - WIND FROM SOUTH  
 SCALE: 1" = 50,000



WIND LOAD STRESS DIAGRAM - WIND FROM NORTH  
 SCALE: 1" = 50,000

NOTE: ALL MATERIAL FOR BRACING TO BE CARBON STEEL.

APPROVED BY

John C. Cook

CUYAHOGA COUNTY  
 BOARD OF COMMISSIONERS  
 COUNTY SUPERVISOR  
 J. R. ZIMMERT  
 J. H. HARRIS  
 W. E. COOK  
 COUNTY BRIDGE ENGINEER  
 A. M. ELLGATE

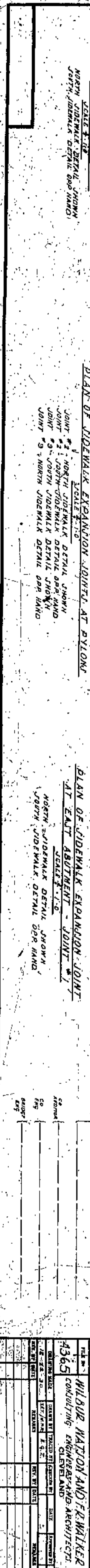
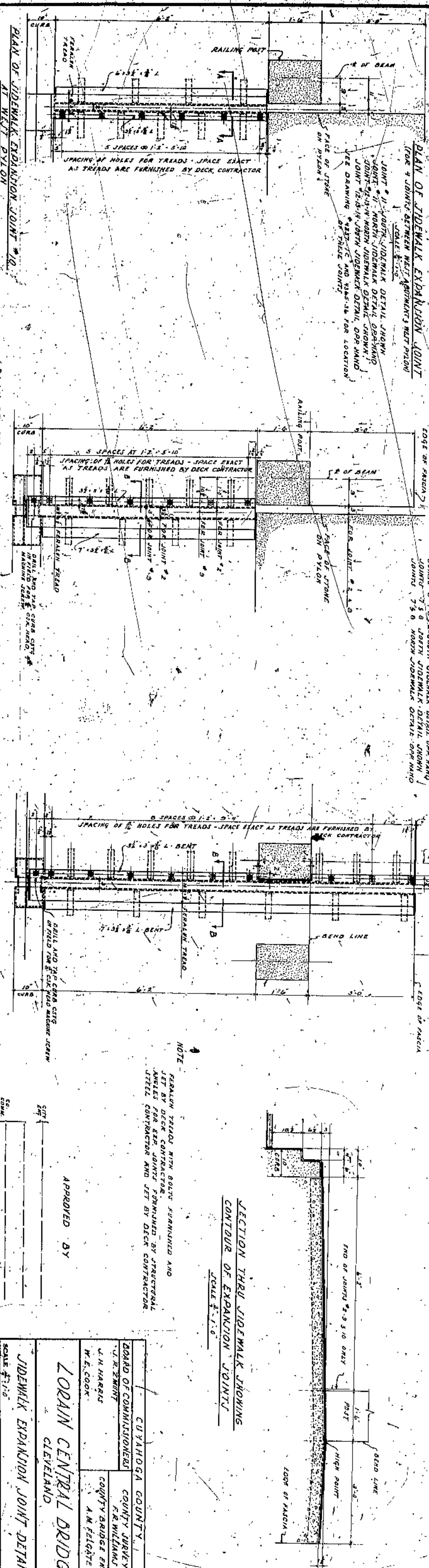
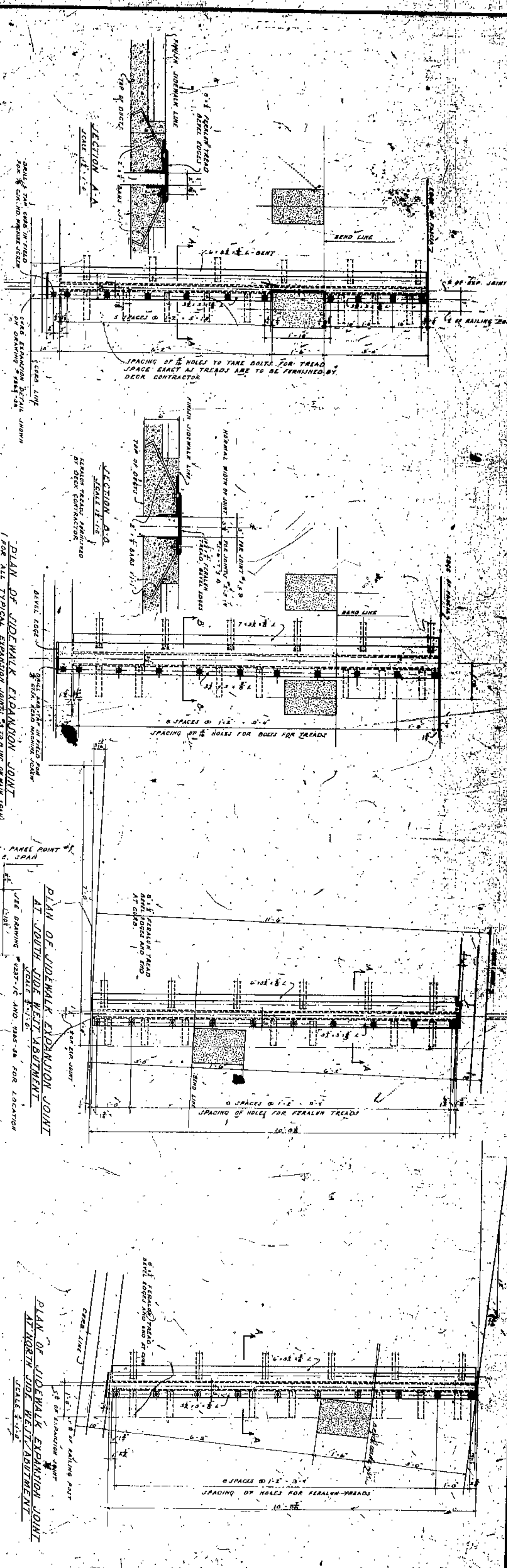
LORAIN CENTRAL BRIDGE  
 CLEVELAND

BRACING TRACKS  
 SPAN OVER W. S. E. TRACKS

DATE: 10/15/1914  
 DRAWN BY: J. H. HARRIS  
 CHECKED BY: J. H. HARRIS  
 APPROVED BY: J. H. HARRIS

NO.	DATE	BY	REVISION
1	10/15/14	J. H. HARRIS	DESIGNED
2	10/15/14	J. H. HARRIS	DRAWN
3	10/15/14	J. H. HARRIS	CHECKED
4	10/15/14	J. H. HARRIS	APPROVED





NOTE: PERALUM TREADS WITH BOLTS FURNISHED AND SET BY DECK CONTRACTOR. ANGLES FOR EXP. JOINTS FURNISHED BY STRUCTURAL STEEL CONTRACTOR AND SET BY DECK CONTRACTOR.

APPROVED BY

CUYAHOGA COUNTY	
BOARD OF COMMISSIONERS	
COUNTY SHERIFF	
F. R. WILLIAMS	
COUNTY BRIDGE ENGINEER	
A. M. FELGATE	
W. E. COOK	
LORAIN CENTRAL BRIDGE	
CLEVELAND	
SIDEWALK EXPANSION JOINT DETAILS	
SCALE: 1/4" = 1'-0"	
DESIGNED BY	WILBUR NATION AND F. W. WALKER
ENGINEER	4365 CONSULTING ENGINEERS AND ARCHITECTS
DATE	45
BY	
CHECKED BY	
DATE	
APPROVED BY	
DATE	

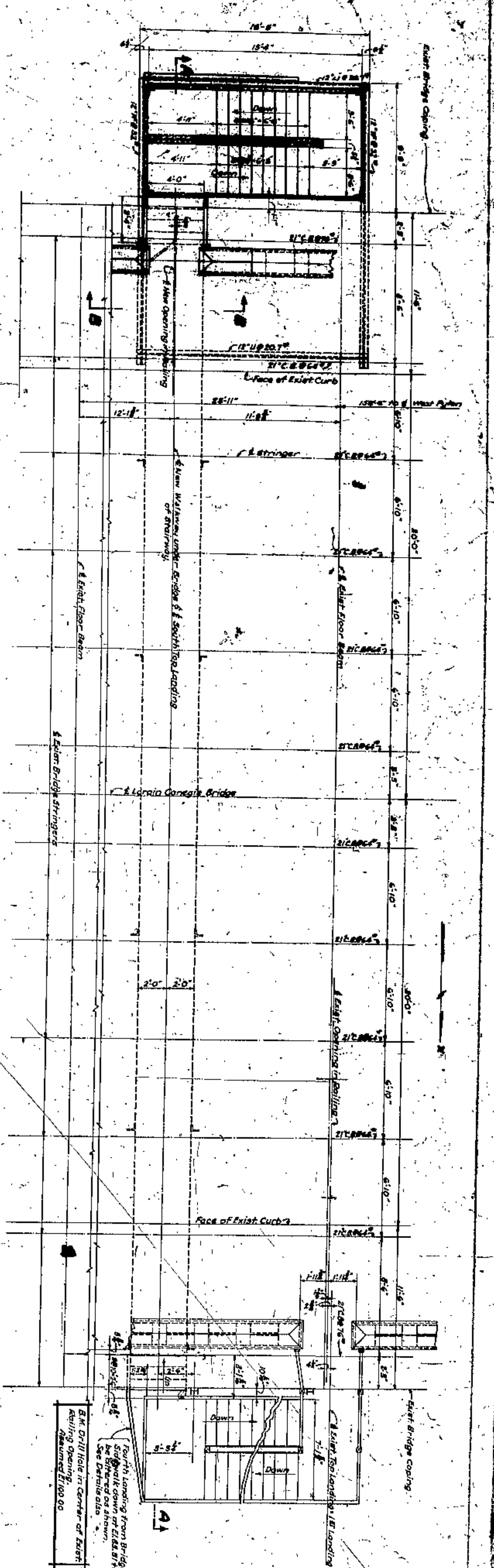




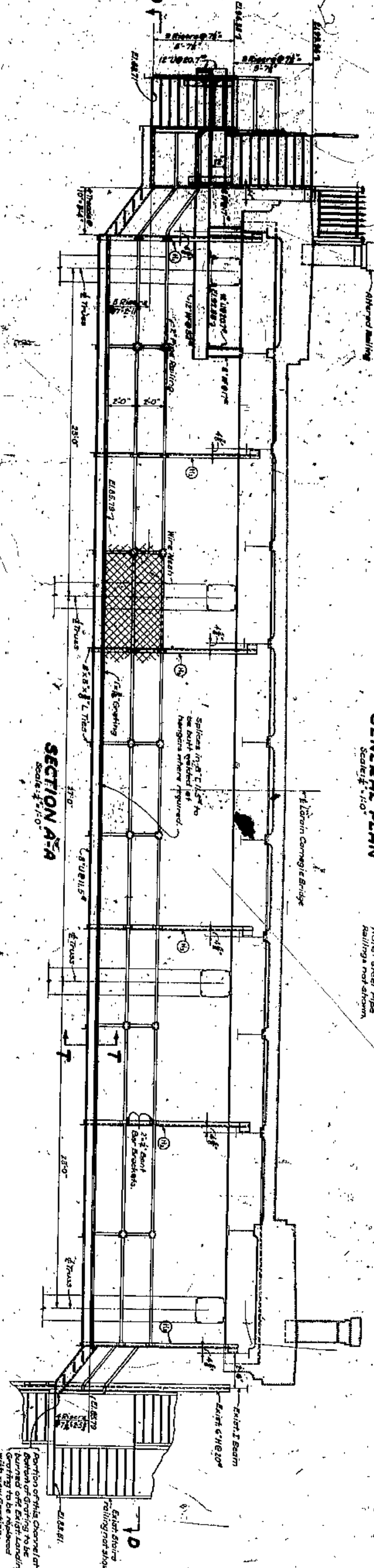


NO.	DATE	REVISION

NO.	DATE	REVISION



**GENERAL PLAN**  
Scale: 1/4" = 1'-0"



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

**ESTIMATED QUANTITIES**

5-7' Spcl. Structural Steel	11000 lbs.
Spcl. Grating for Stair Treads and Walks	500 sq. ft.
5-16' Spcl. Picket Fence Railing	14 lin. ft.
5-16' Spcl. Pipe Railing with Wire Mesh	280 lin. ft.
Spcl. Remodeling Existing Stone Railing	Lump Sum
Spcl. Common Labor	80 hrs.
Spcl. Maintaining Traffic, Lights, Signs	50 hrs.
4 Barricades	Lump Sum

BUILT BY CONTRACT  
1942

311' EAST OF WEST 17 ST

COUNTY OF CUYAHOGA  
**JOHN O. Mc WILLIAMS**  
COUNTY ENGINEER  
BRIDGE DEPT.

Approved: *J. O. Mc Williams*  
Date: Oct 9, 1941

Approved: *J. M. Kaban*  
Date: Oct 9, 1941

Approved: *M. S. Kaban*  
Date: Oct 9, 1941

Approved: *W. J. Kaban*  
Date: 10/9/41

Approved: *W. J. Kaban*  
Date: 10/9/41

Approved: *W. J. Kaban*  
Date: 10/9/41

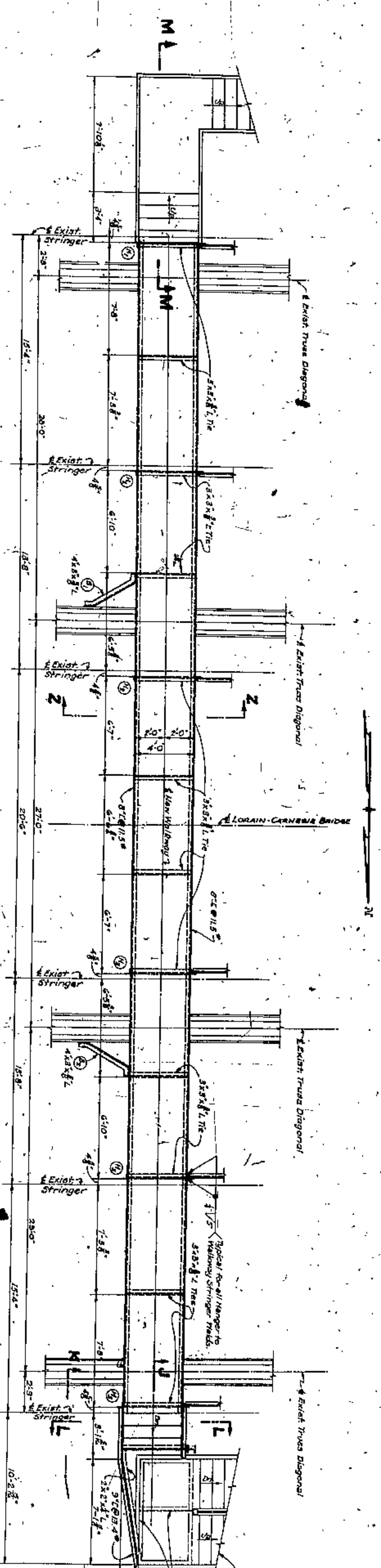
**LORAIN-CARNEGIE BR.**  
CITY OF CLEVELAND

STAIRWAY & WALKWAY  
AT REPUBLIC STEEL CO. X  
BRIDGE NO. 666

NO. B-28

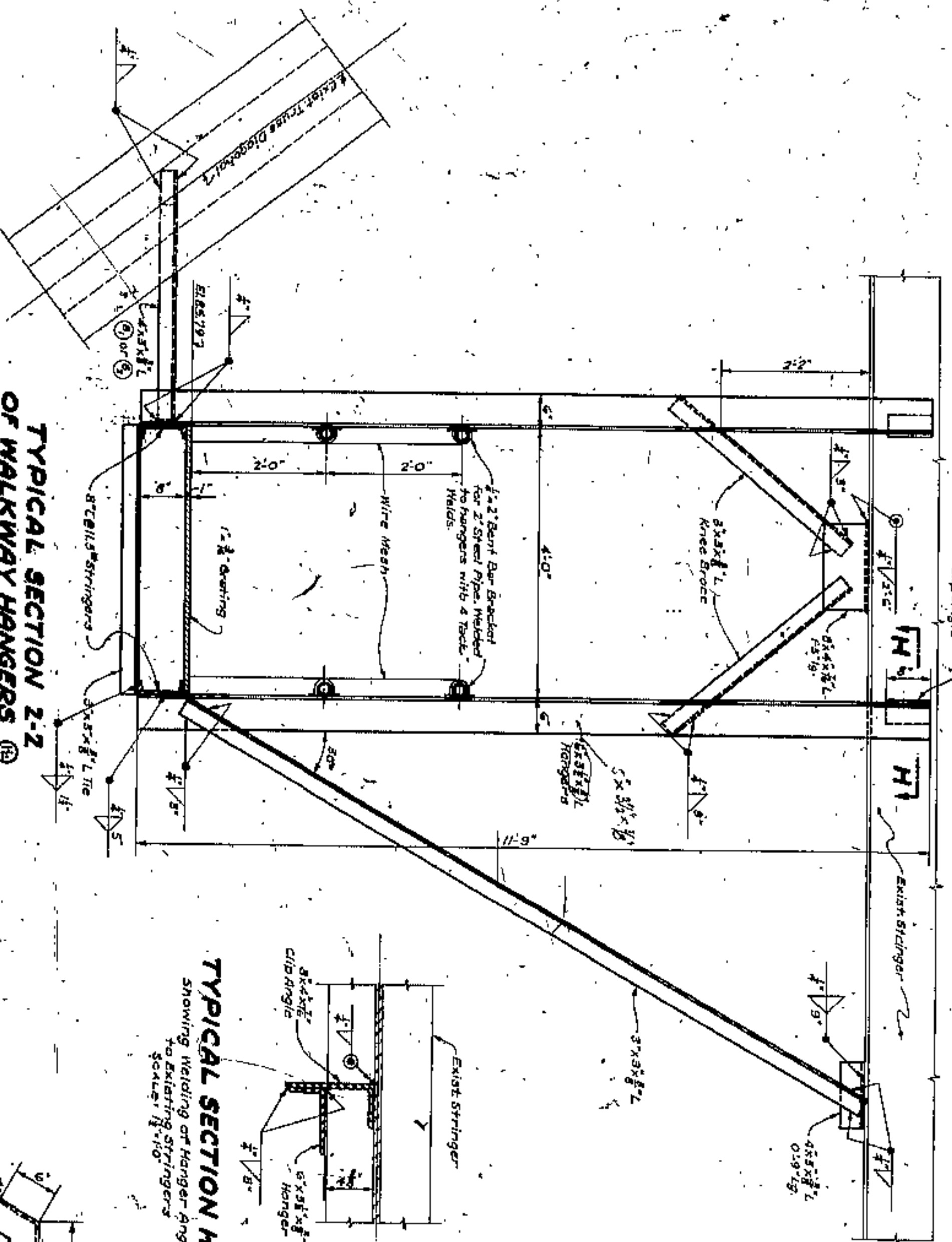
SCALE: As shown DATE: 10-15-41  
DRAWN BY: E. C. CROCKER





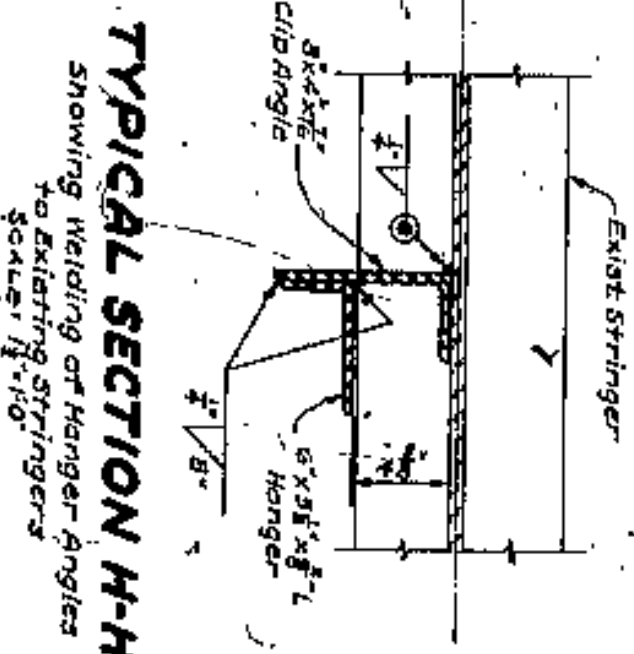
SECTIONAL PLAN D-D OF WALKWAY  
Scale: 1/4" = 1'-0"

Note: Pipe railing not shown.



TYPICAL SECTION 2-2  
OF WALKWAY HANGERS  
HANGERS (M) SIMILAR (SEE PLAN)  
HANGER (N) IS SIMILAR EXCEPT FOR  
HANGER L AND KNEE BRACE L  
Scale: 1/4" = 1'-0"

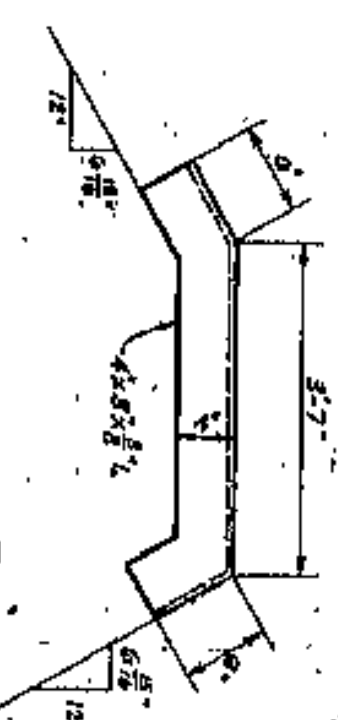
Note: For details of (M) see sheet No. 123.



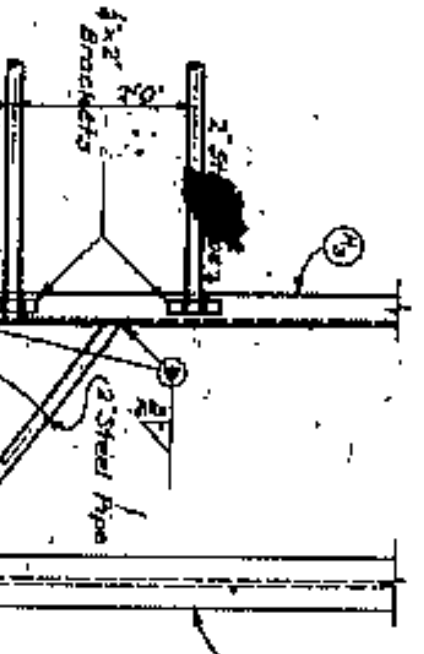
TYPICAL SECTION H-H  
SHOWING WELDING OF HANGER ANGLES  
Scale: 1/4" = 1'-0"



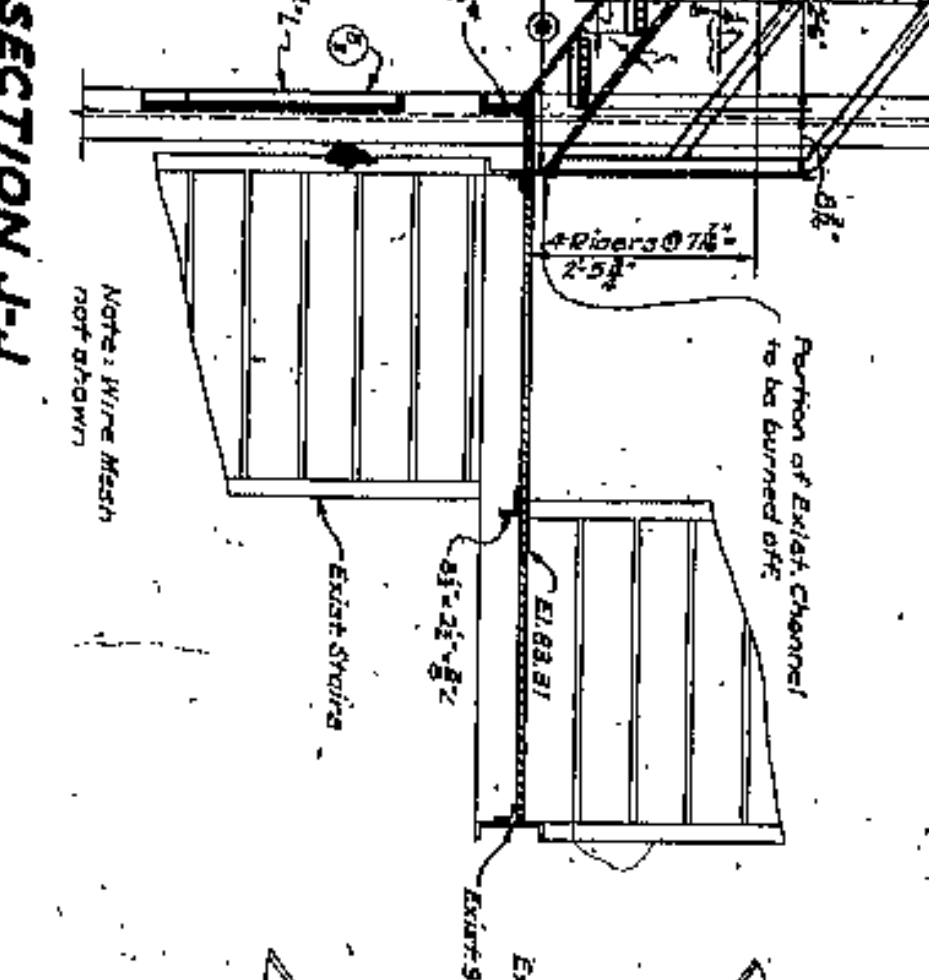
DETAIL OF (M)  
I-Required



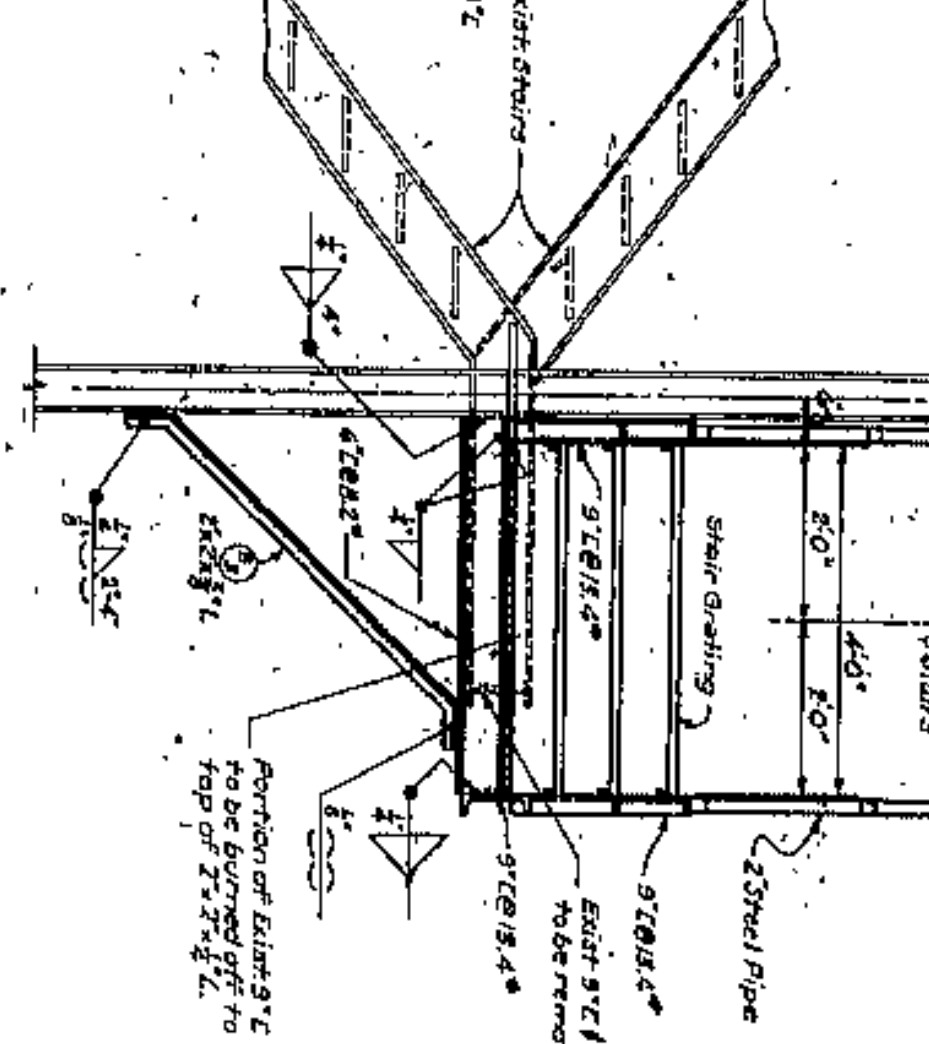
DETAIL OF (N)  
I-Required



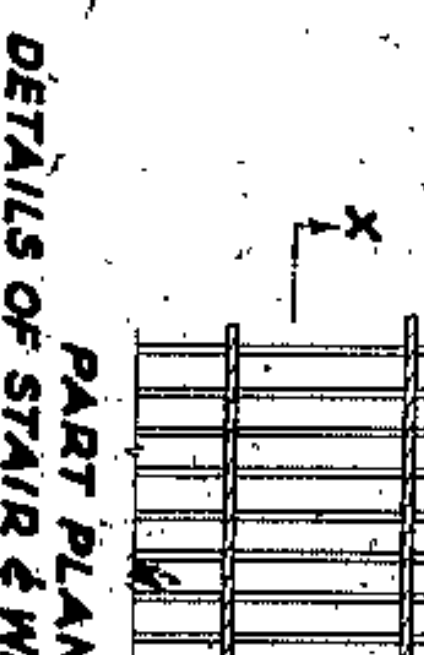
DETAILS OF RAILING  
PIPE BRACKET  
Scale: 1/4" = 1'-0"



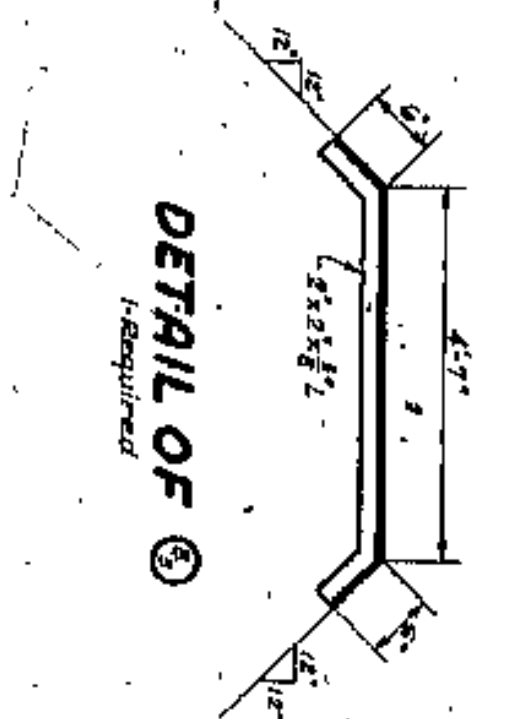
SECTION J-J  
Scale: 1/4" = 1'-0"



SECTION L-L  
Scale: 1/4" = 1'-0"



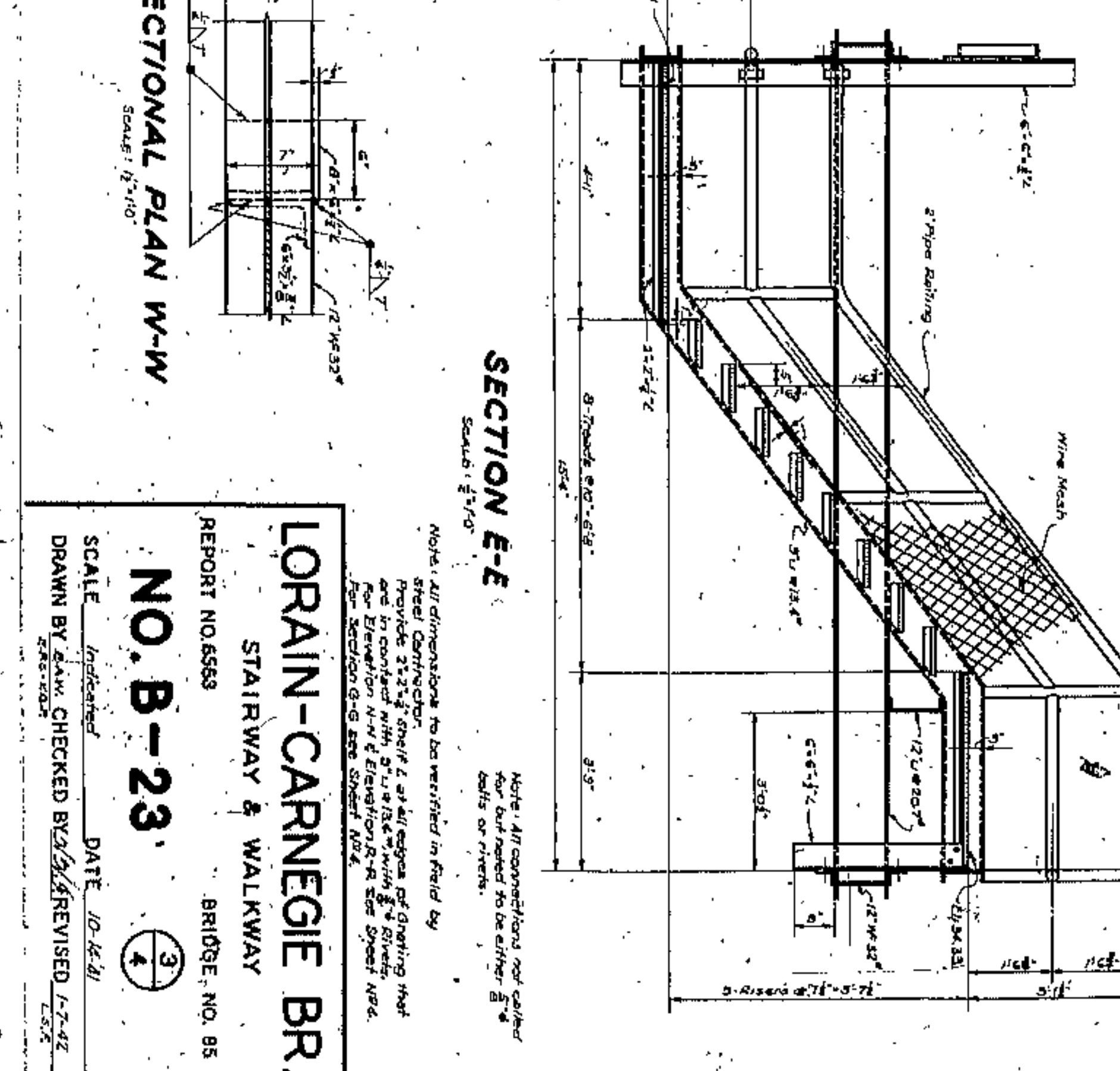
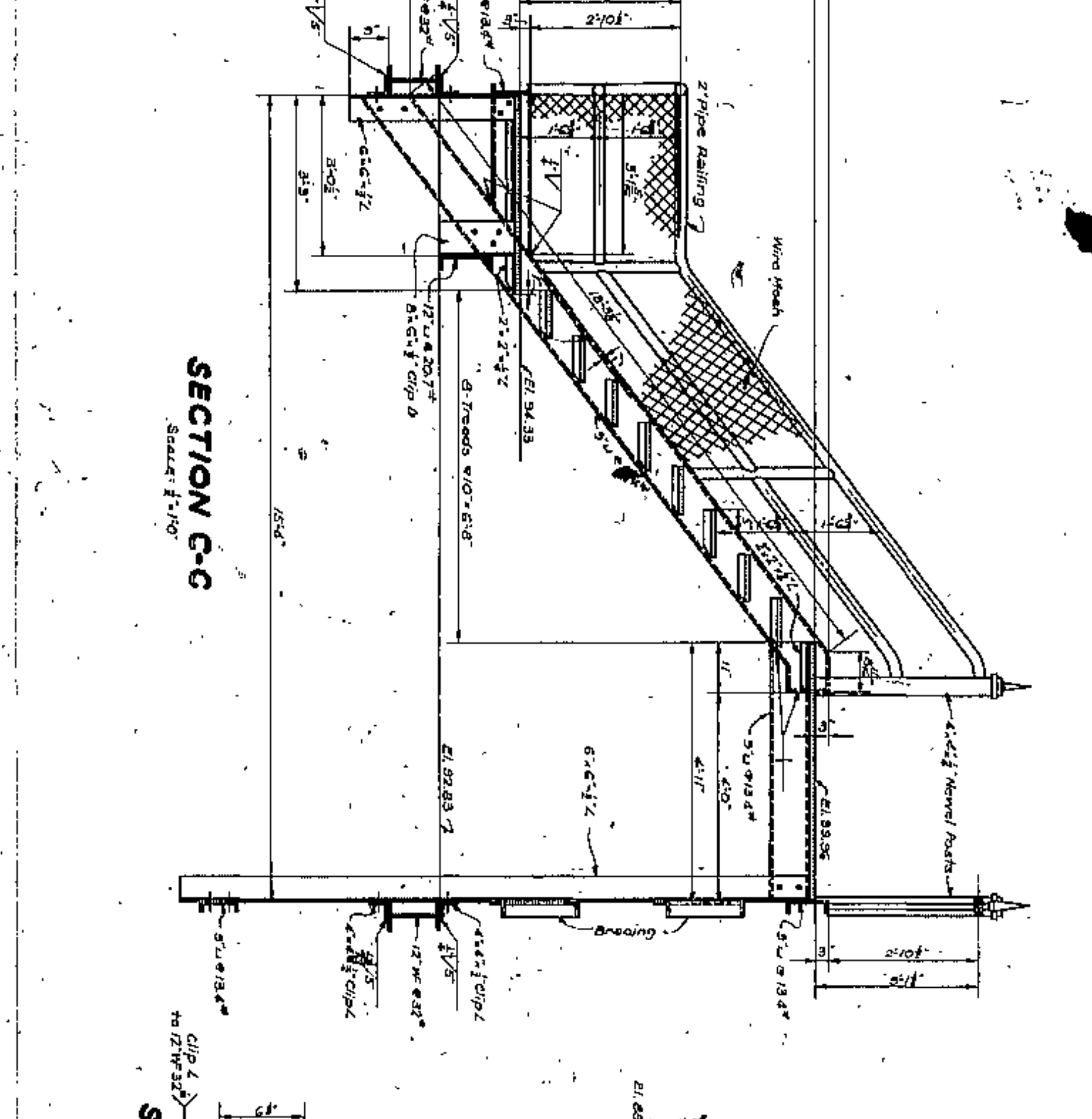
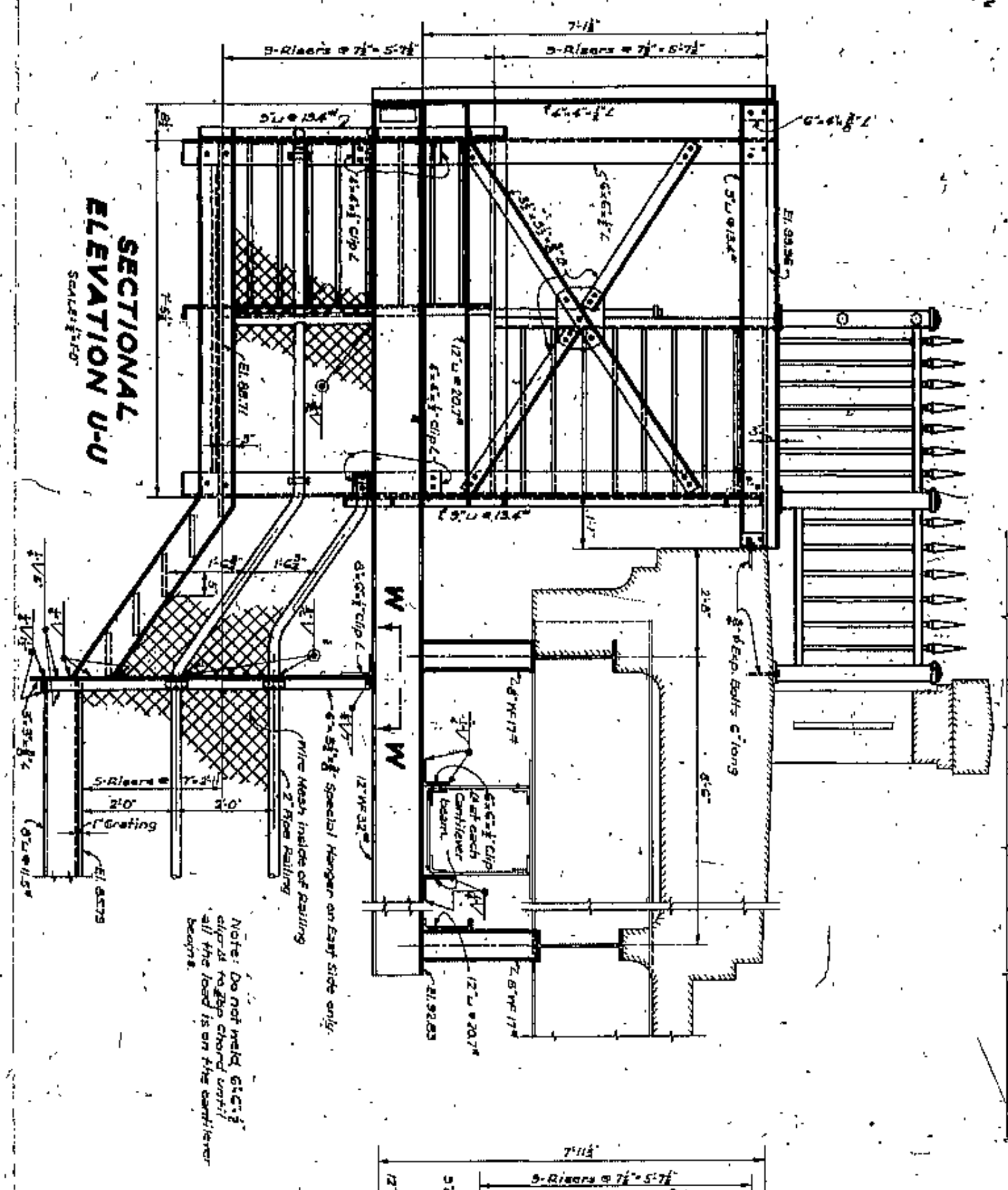
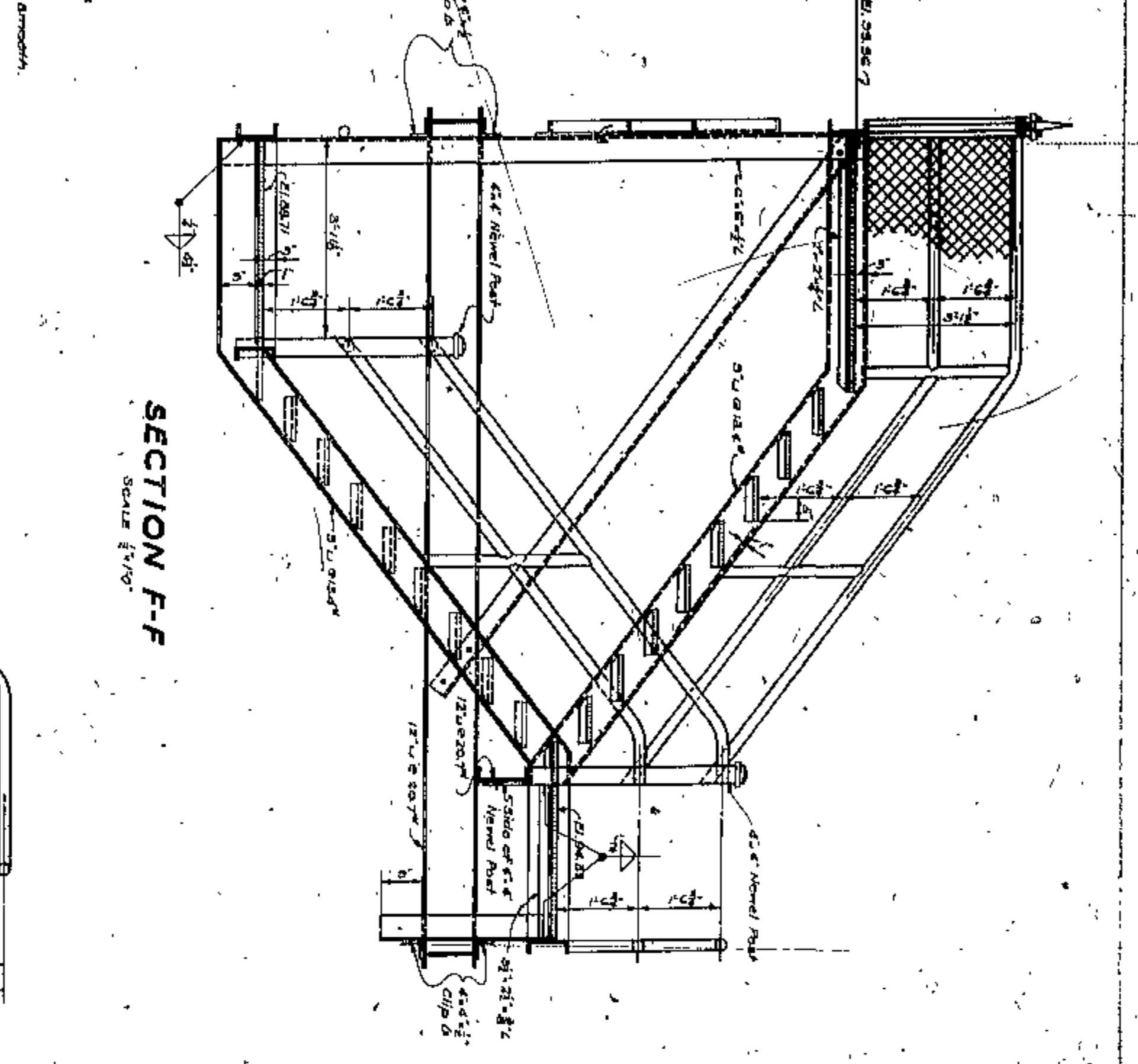
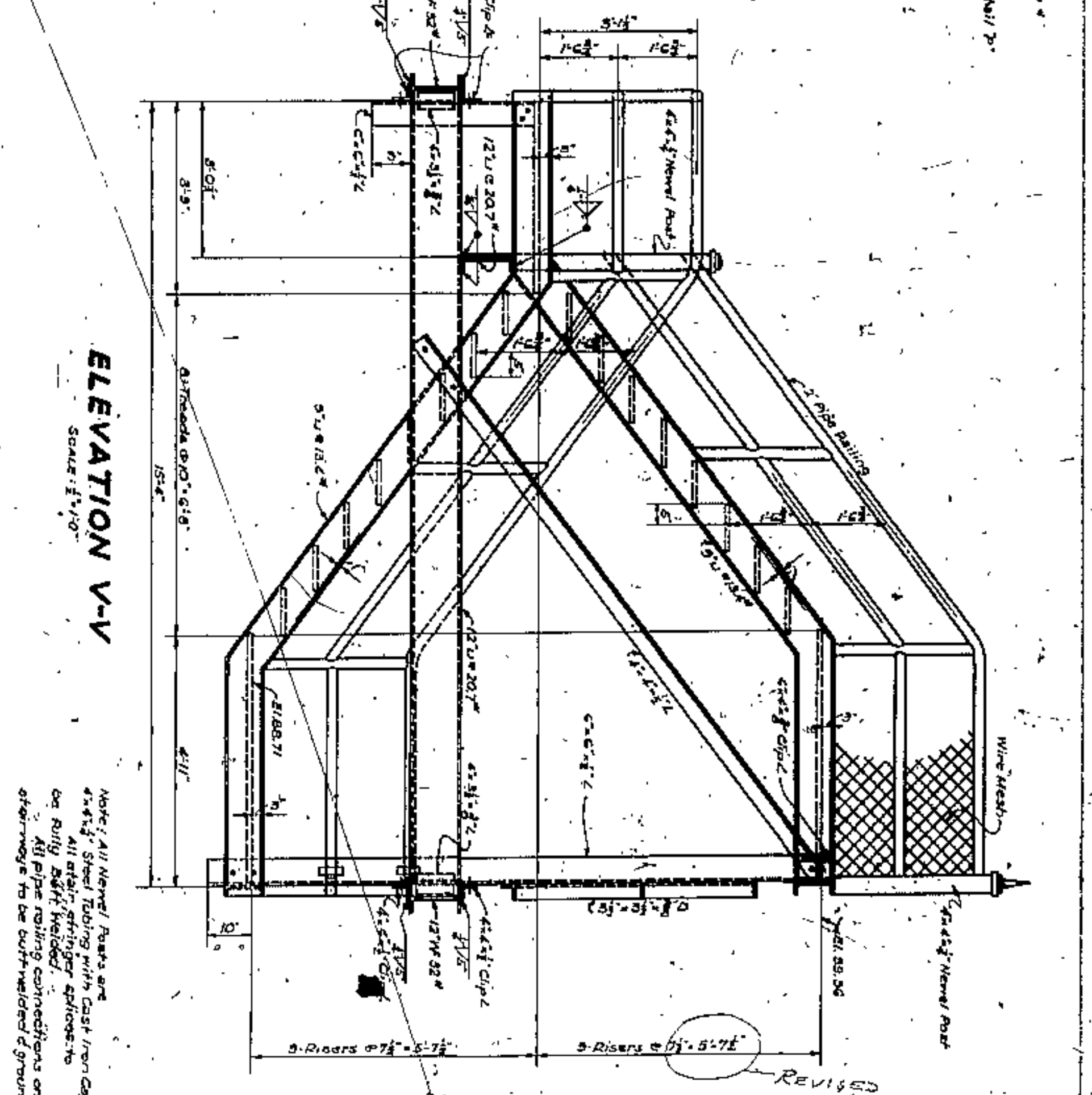
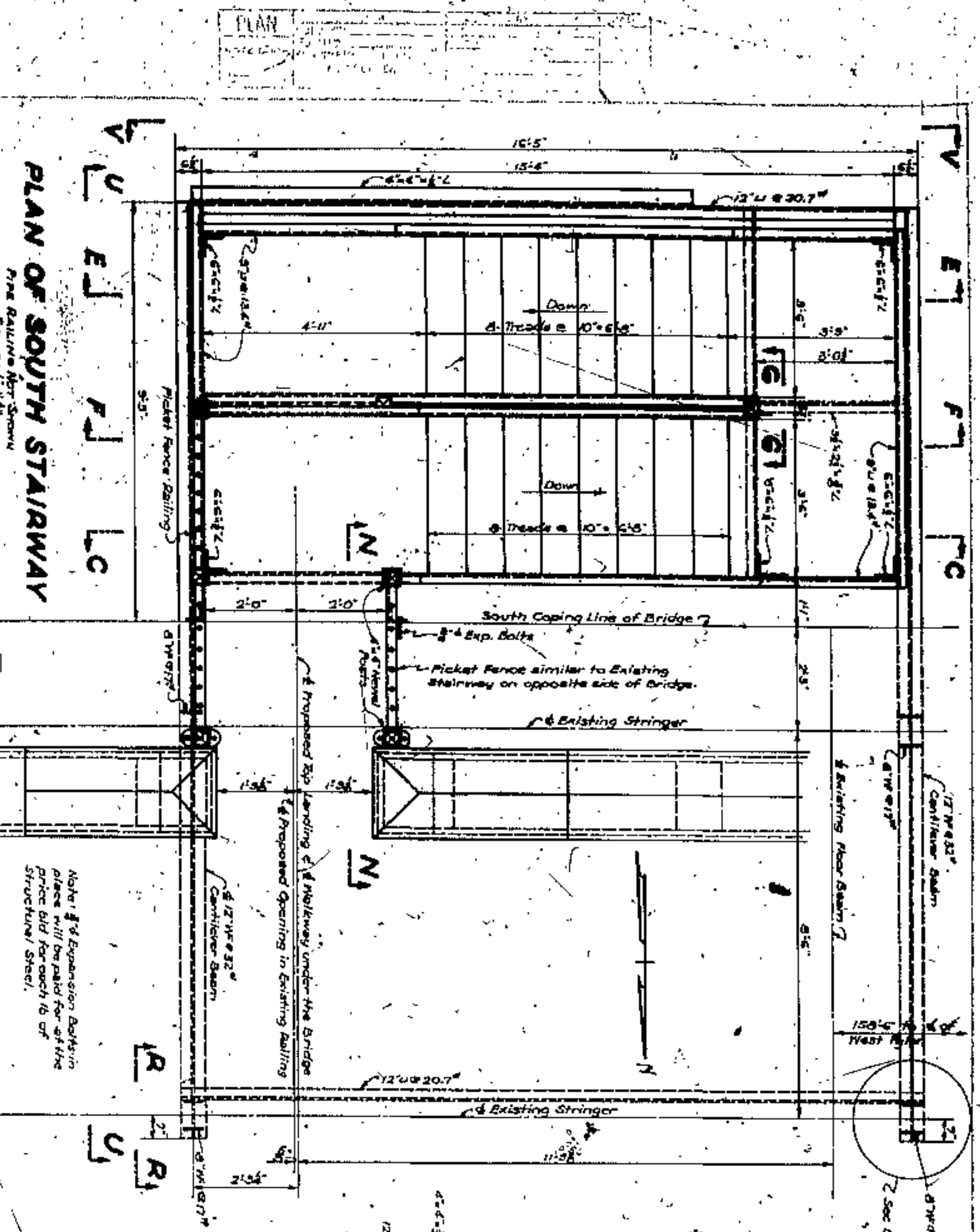
PART PLAN  
OF STAIR & WALKWAY  
GRATING  
Scale: 1/4" = 1'-0"



DETAIL OF (X)  
I-Required

LORAIN-CARNEGIE BR.  
STAIRWAY & WALKWAY  
REPORT NO. 5583  
BRIDGE NO. 85  
**NO. B-23**  
SCALE: Indicated  
DATE: 10-16-41  
DRAWN BY: K.S.C. CHECKED BY: J.S. GREENE  
REVISED



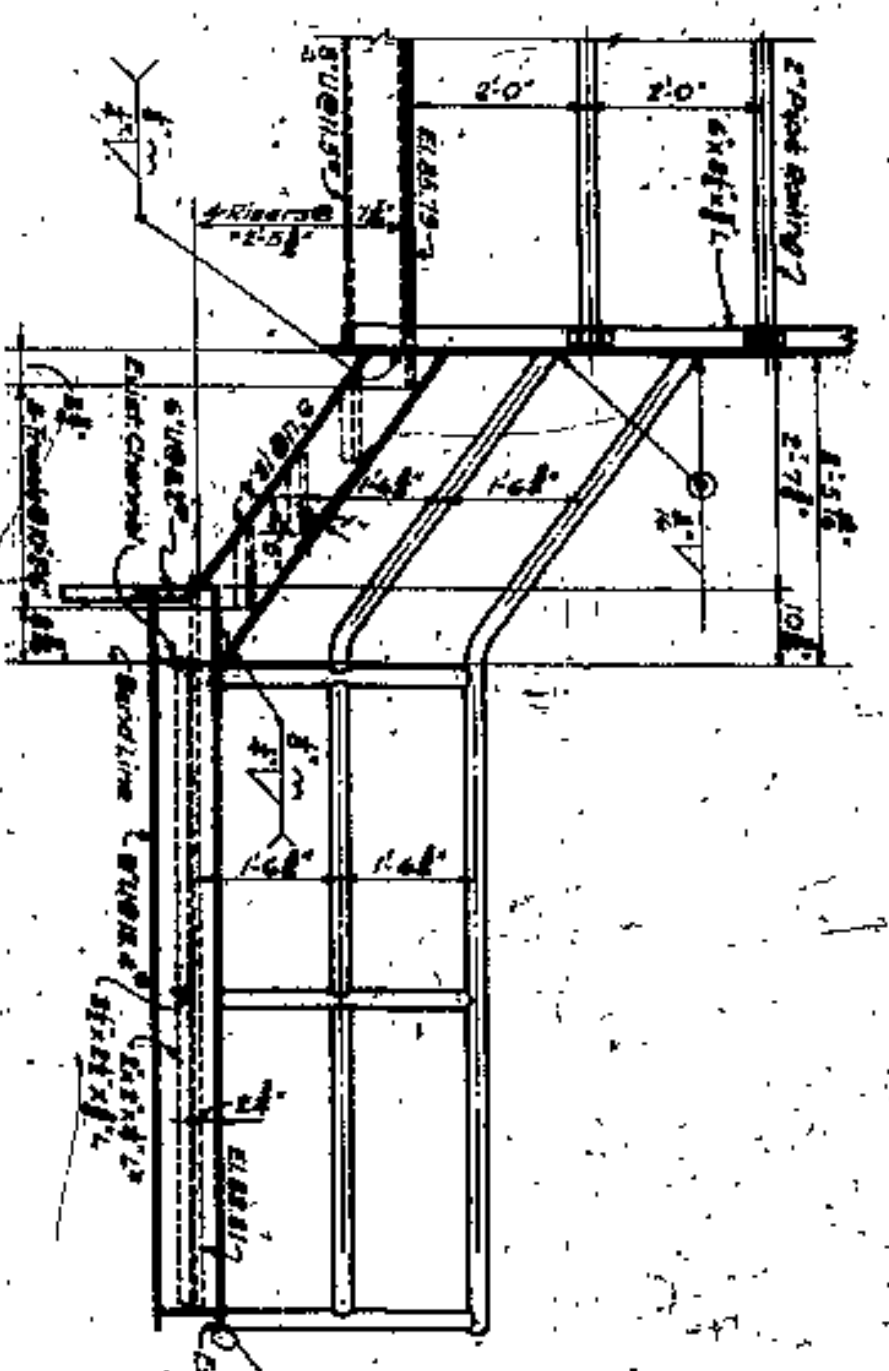


**LORAIN-CARNEGIE BR.**  
**STAIRWAY & WALKWAY**  
 REPORT NO. 5583  
 BRIDGE NO. 85

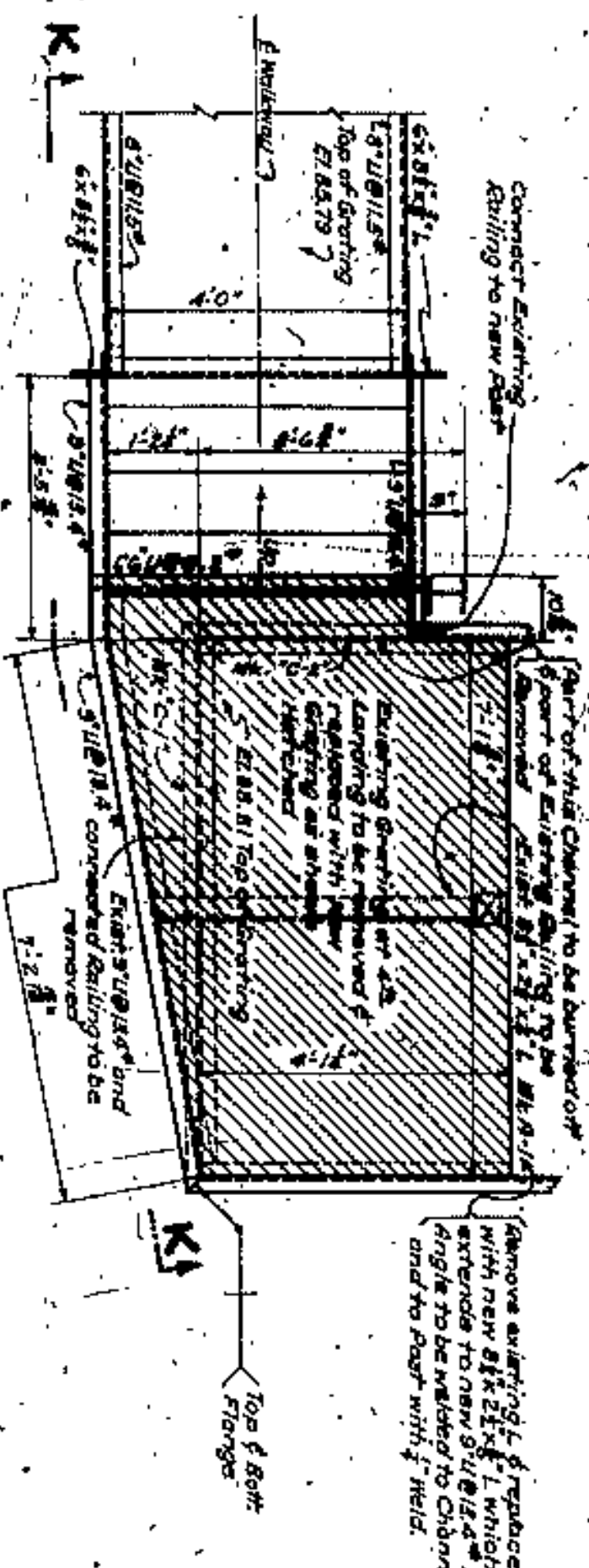
**NO. B-23**

SCALE: As Shown  
 DATE: 10-26-41  
 DRAWN BY: J.A.W. CHECKED BY: J.C. REVISED: 1-2-42

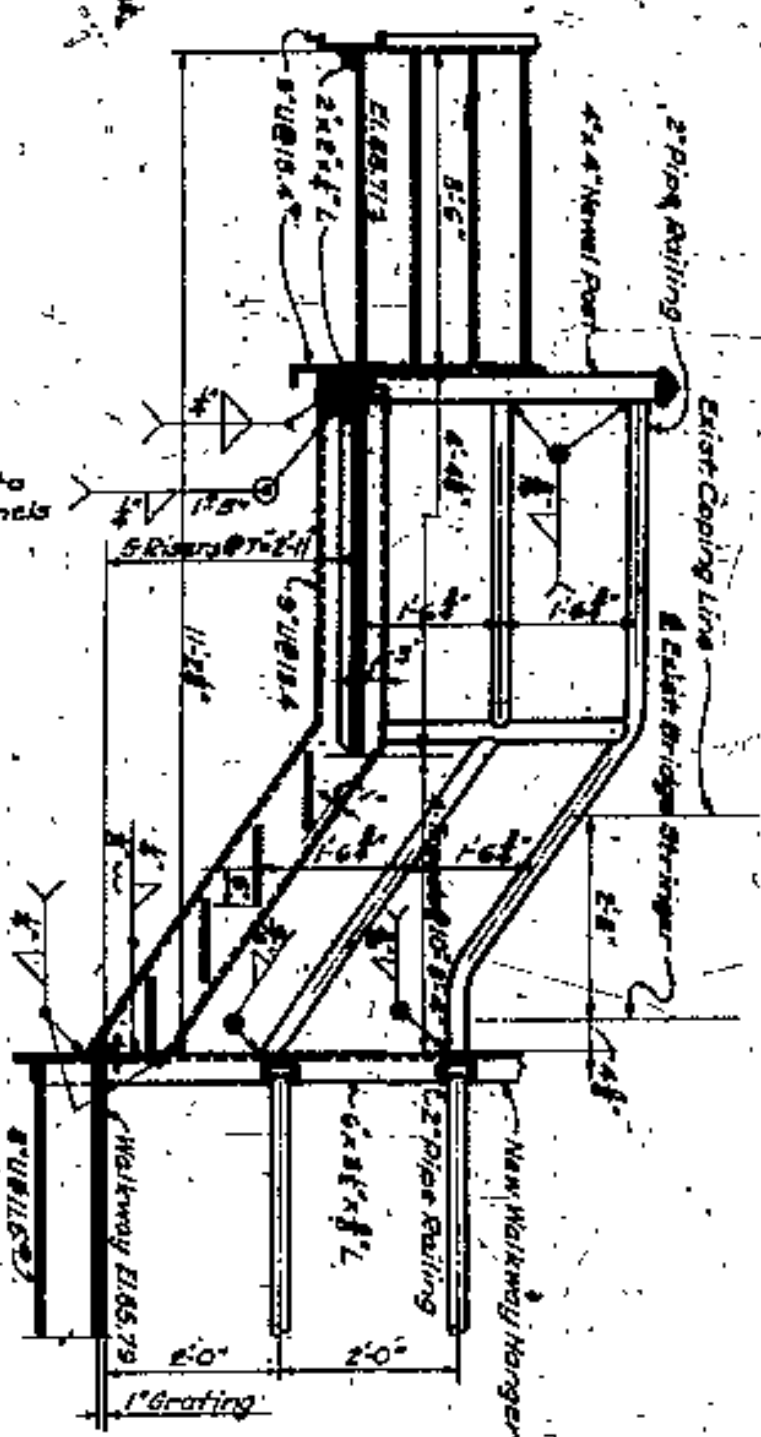




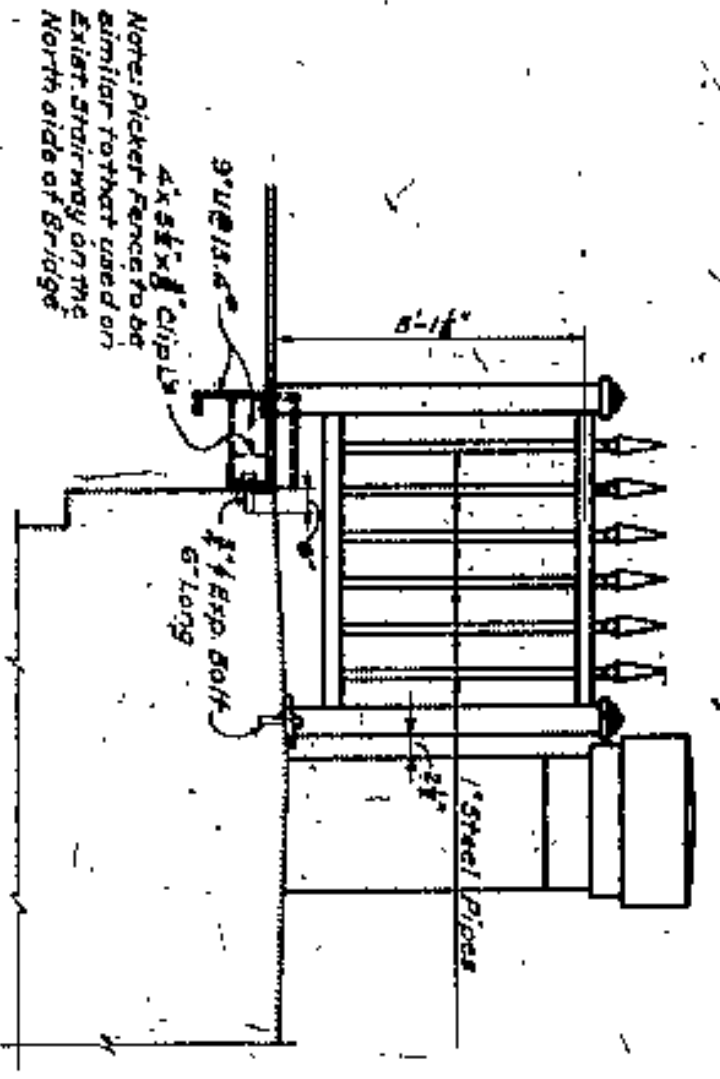
**DEVELOPED ELEVATION K-K**  
Scale: 1/2" = 1'-0"



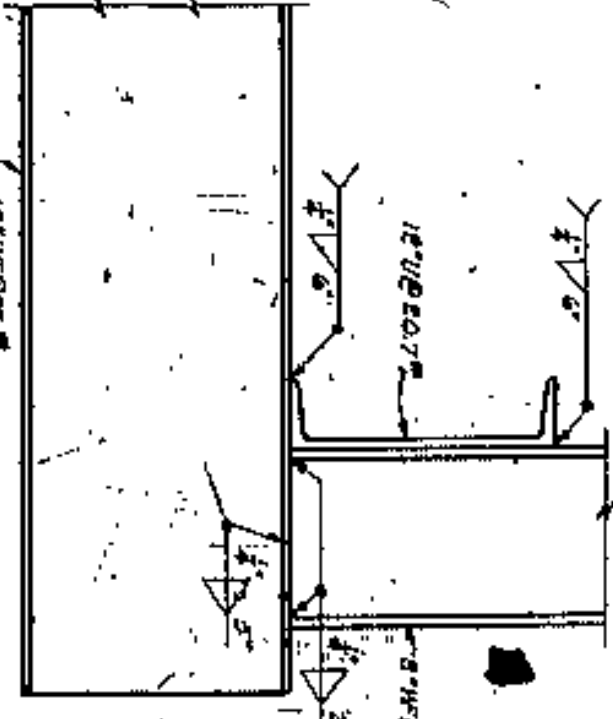
**PLAN - NORTH STAIRWAY**  
Scale: 1/2" = 1'-0"



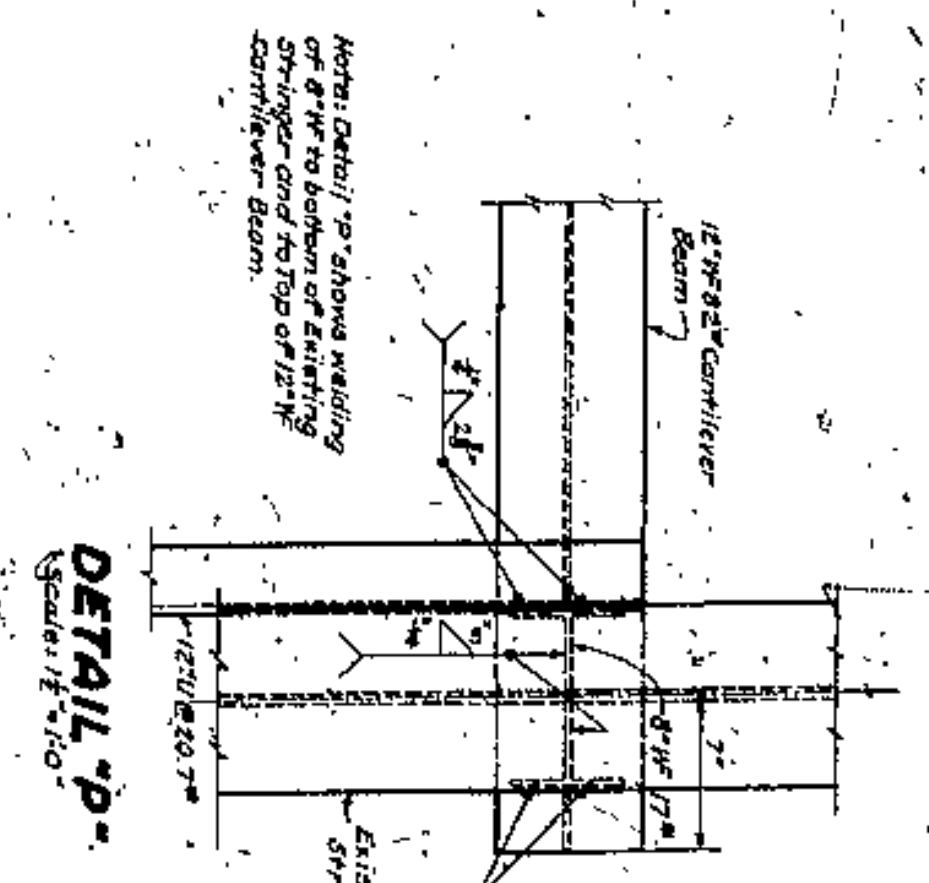
**SECTION M-M**  
Scale: 1/2" = 1'-0"



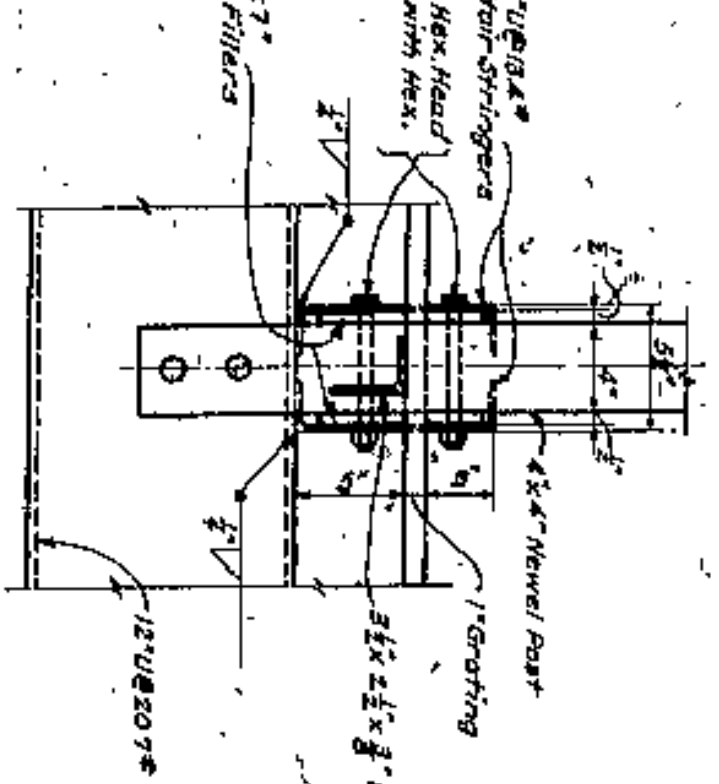
**ELEVATION N-N**  
Scale: 1/2" = 1'-0"



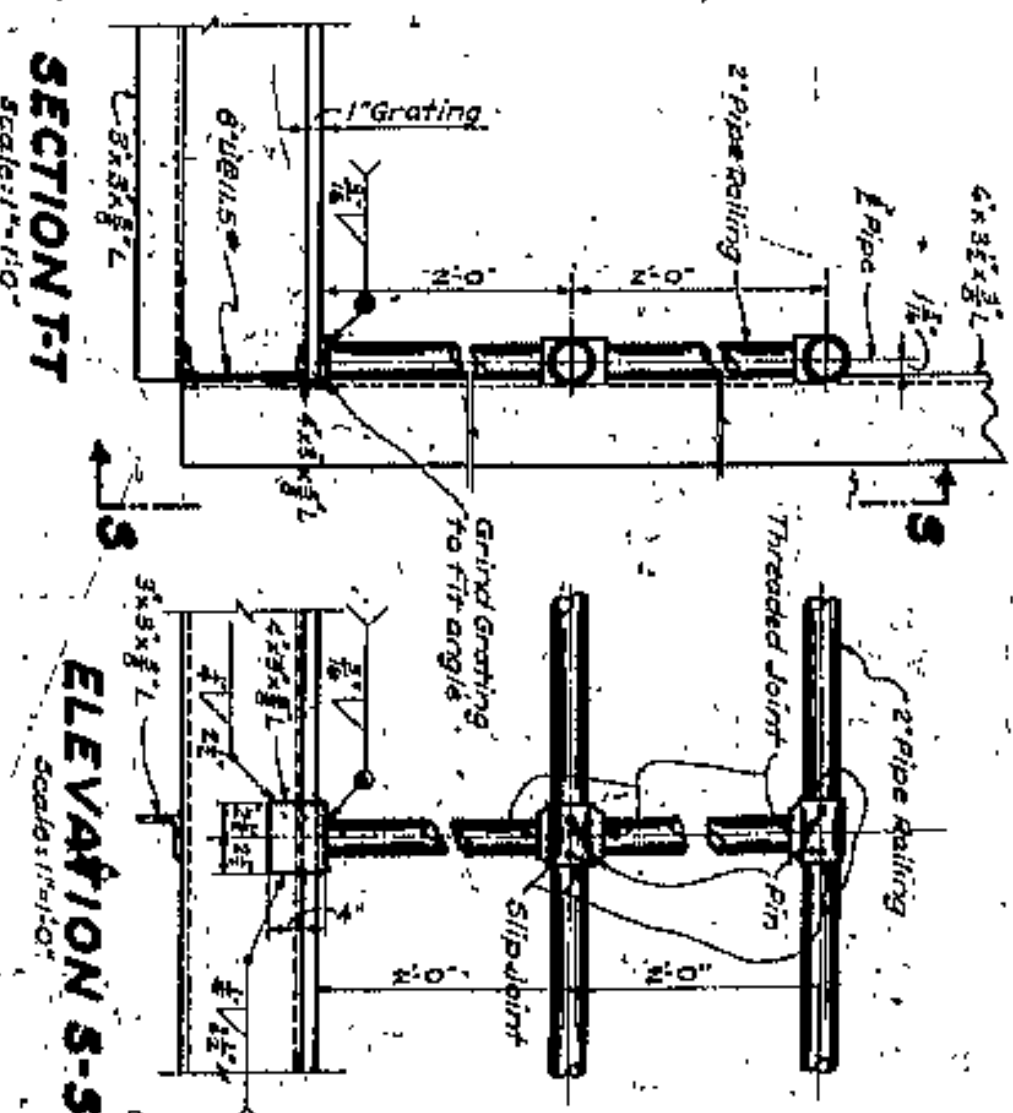
**ELEVATION R-R**  
Scale: 1/2" = 1'-0"



**DETAIL P-P**  
Scale: 1/2" = 1'-0"

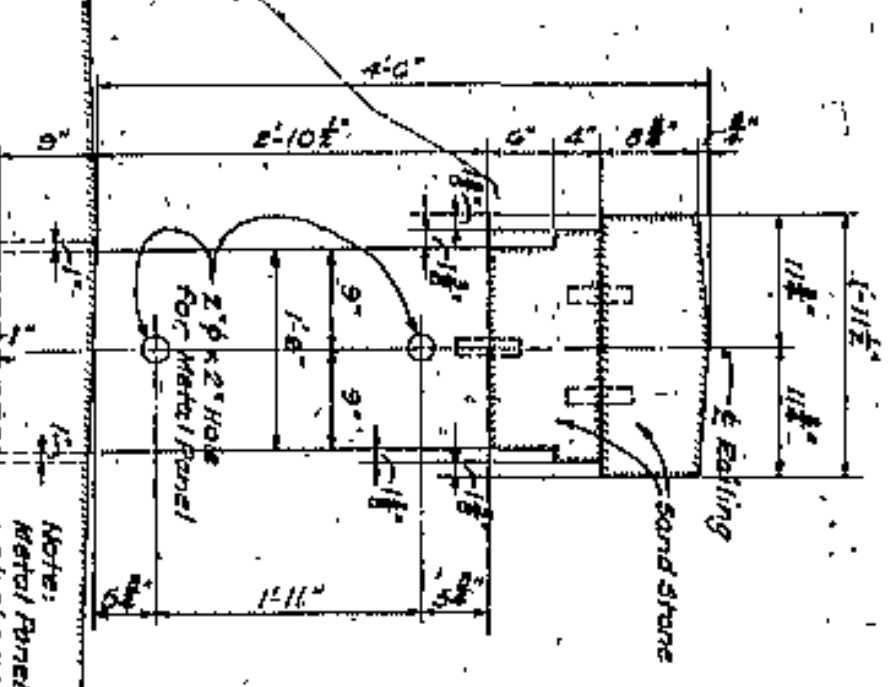


**PART ELEVATION G-G**  
Scale: 1/2" = 1'-0"

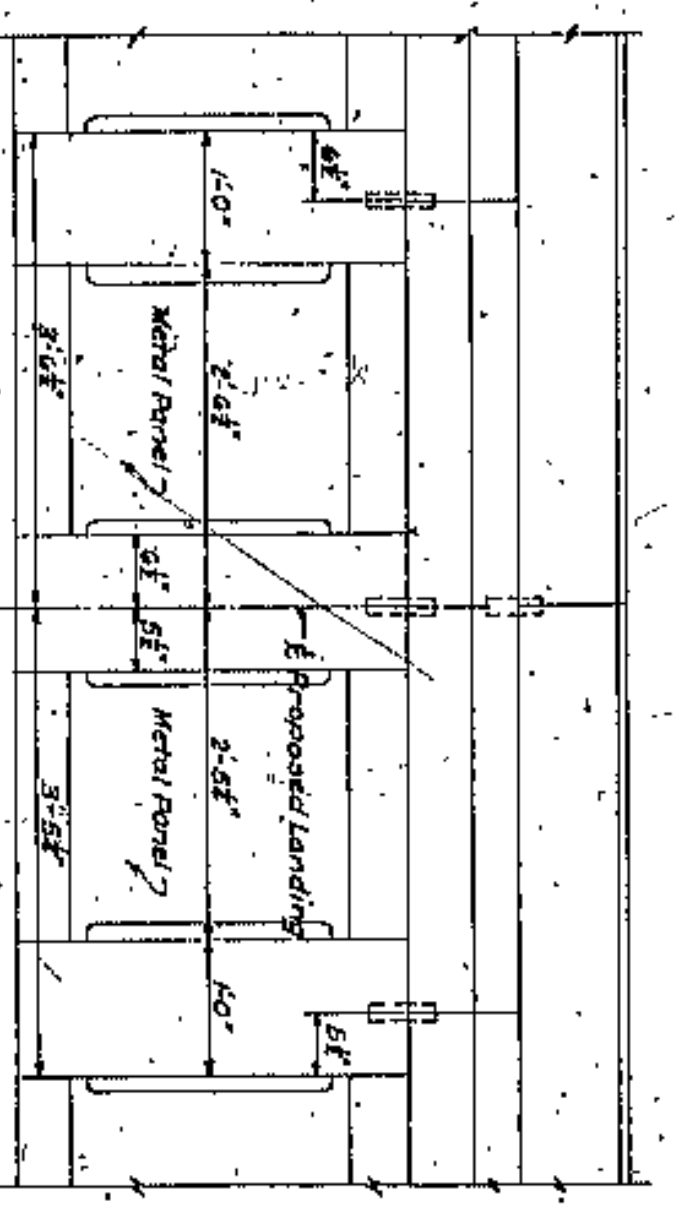


**SECTION T-T**  
Scale: 1/2" = 1'-0"

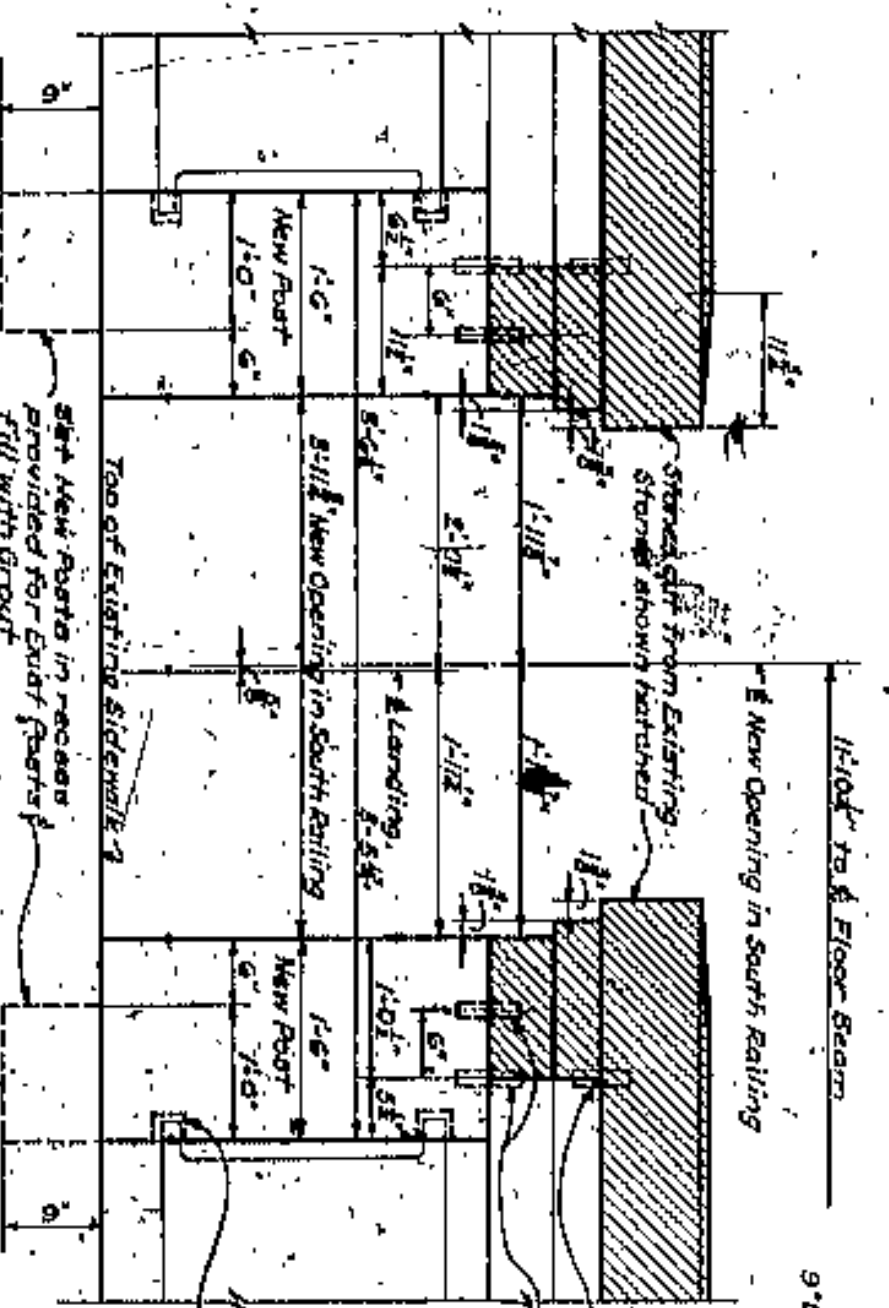
**ELEVATION S-S**  
Scale: 1/2" = 1'-0"



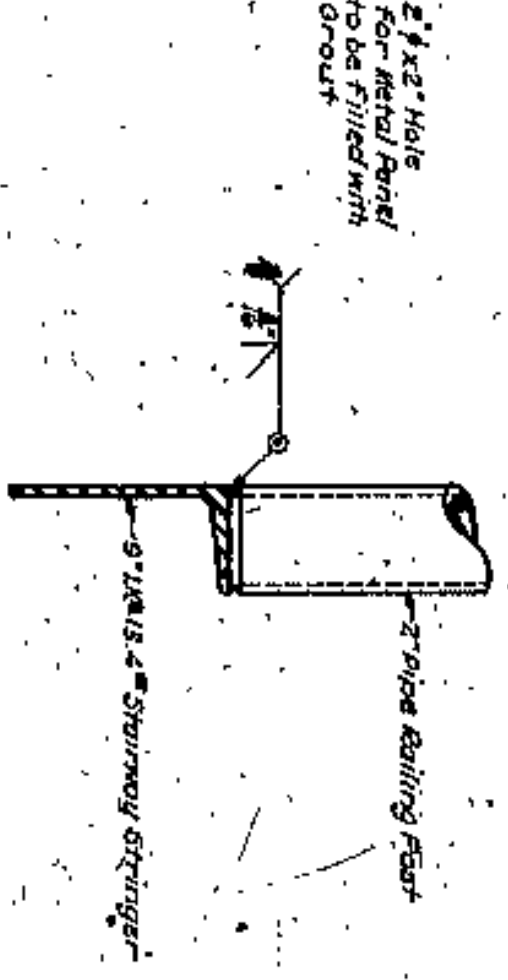
**TYPICAL SECTION OF RAILING ON BRIDGE**  
Scale: 1/2" = 1'-0"



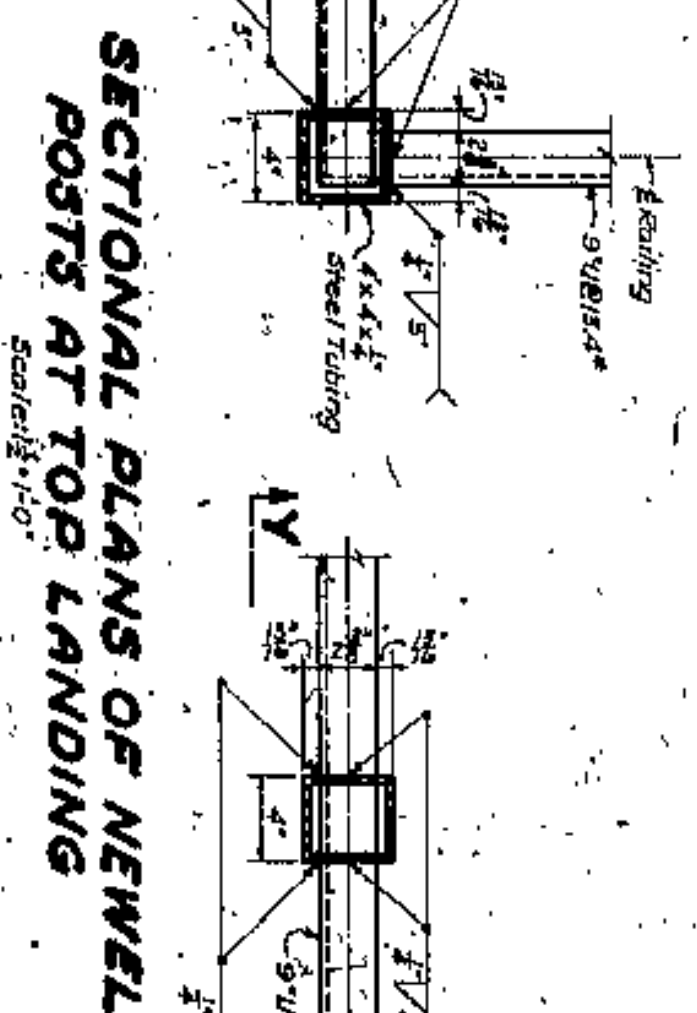
**ELEVATION B-B SHOWING EXISTING CONDITION**  
Scale: 1/2" = 1'-0"



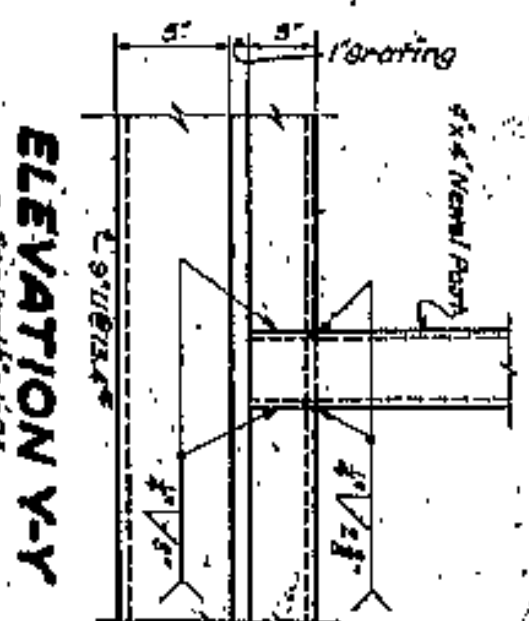
**ELEVATION B-B AFTER ALTERATIONS ON RAILING ARE MADE**  
Scale: 1/2" = 1'-0"



**TYPICAL DETAIL OF FASTENING RAILING POST TO TOP STAIRWAY STRINGER**  
Scale: 1/2" = 1'-0"



**SECTIONAL PLANS OF NEWEL POSTS AT TOP LANDING**  
Scale: 1/2" = 1'-0"



**ELEVATION Y-Y**  
Scale: 1/2" = 1'-0"

**LORAIN-CARNEGIE BR**

**STAIRWAY & WALKWAY**

BRIDGE NO. 85

REPORT NO. 6563

**NO. B-23**

SCALE AS SHOWN DATE 10-14-41  
DRAWN BY L.F.F. CHECKED BY A.S. REVISIONS



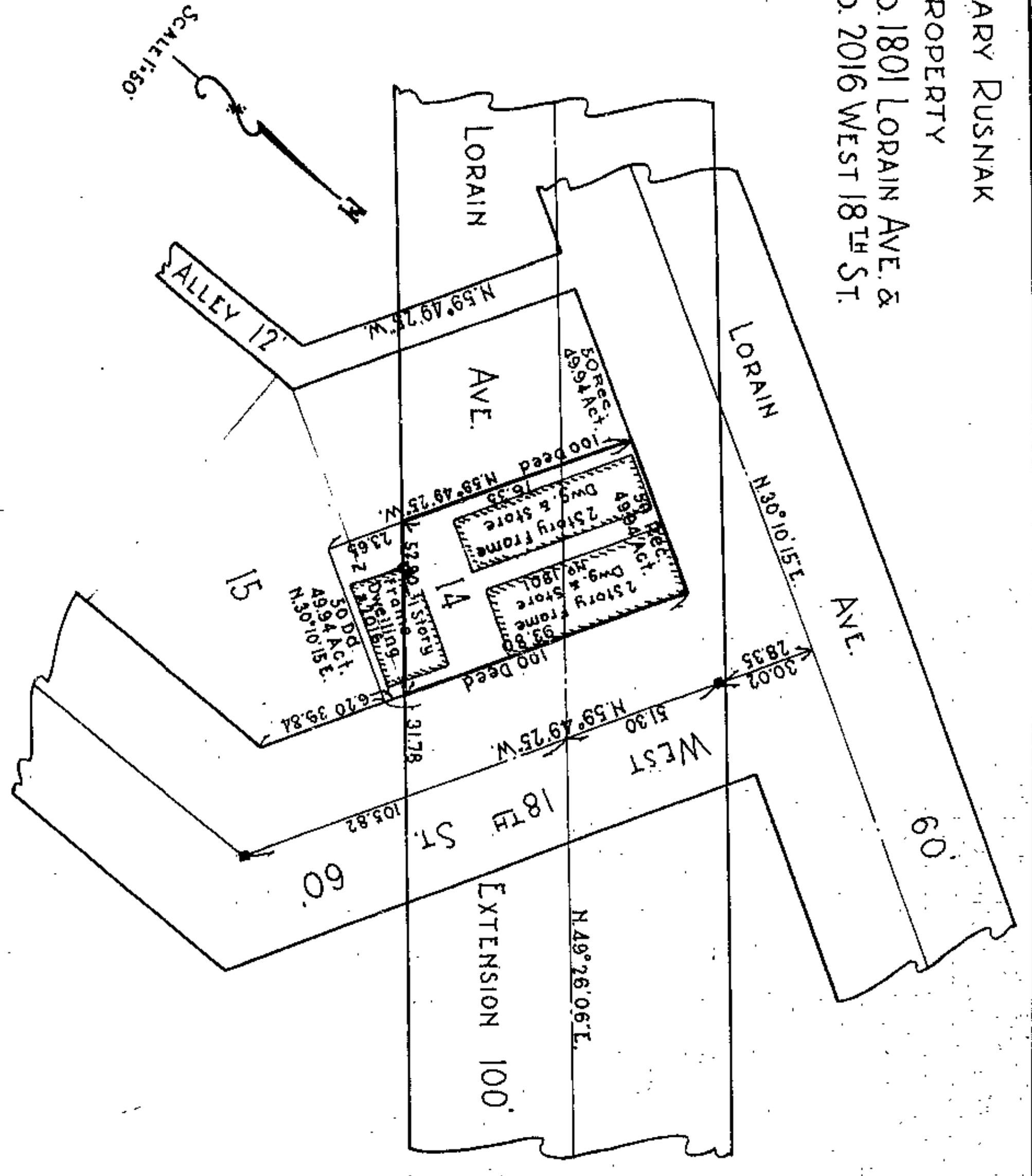






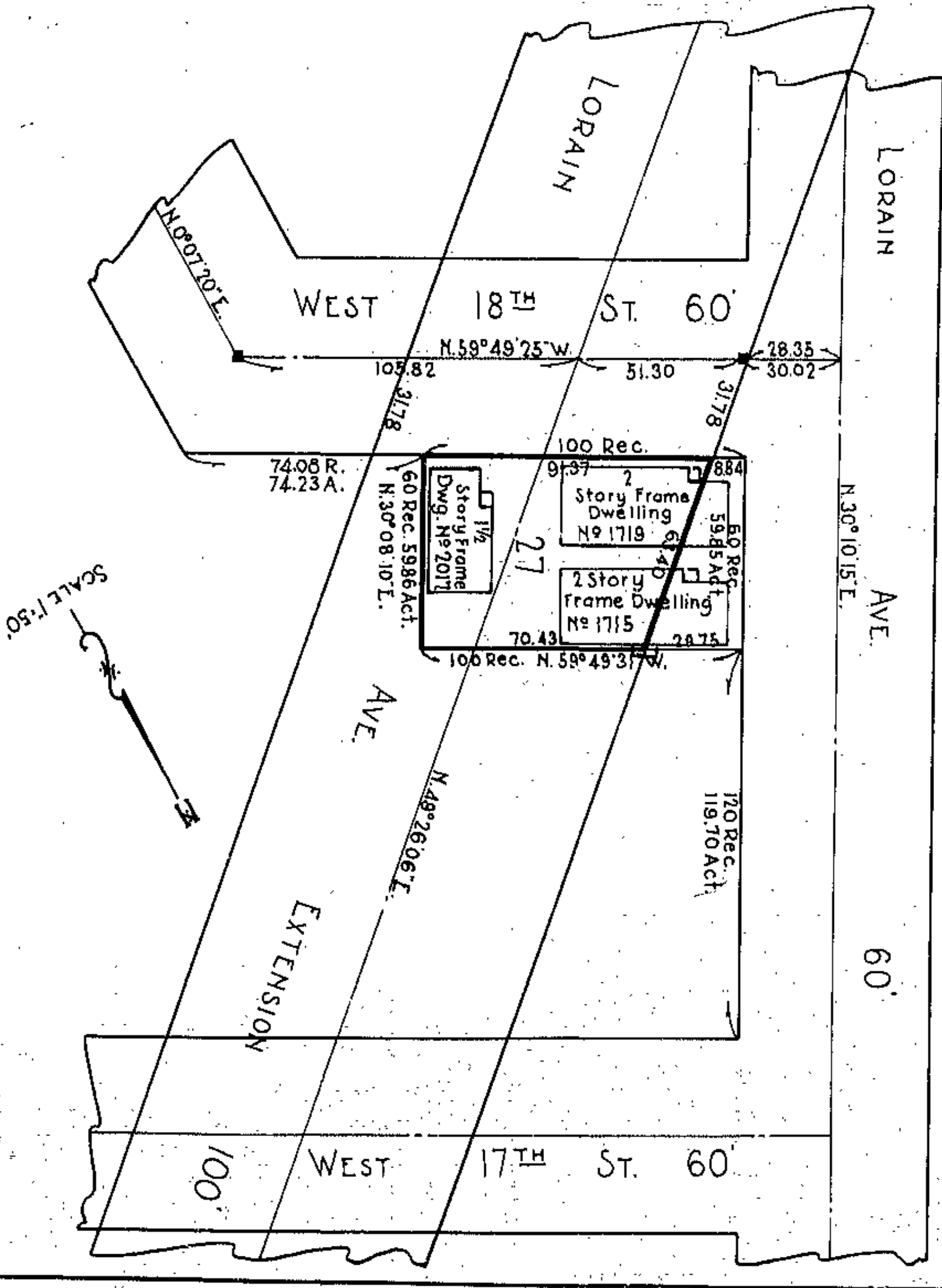


MARY RUSNAK  
 PROPERTY  
 No. 1801 LORAIN AVE. &  
 No. 2016 WEST 18<sup>TH</sup> ST.



4

DAVID SEIDMAN  
 PROPERTY  
 No. 1715-19 LORAIN AVE. &  
 No. 2017 WEST 18<sup>TH</sup> ST.



5



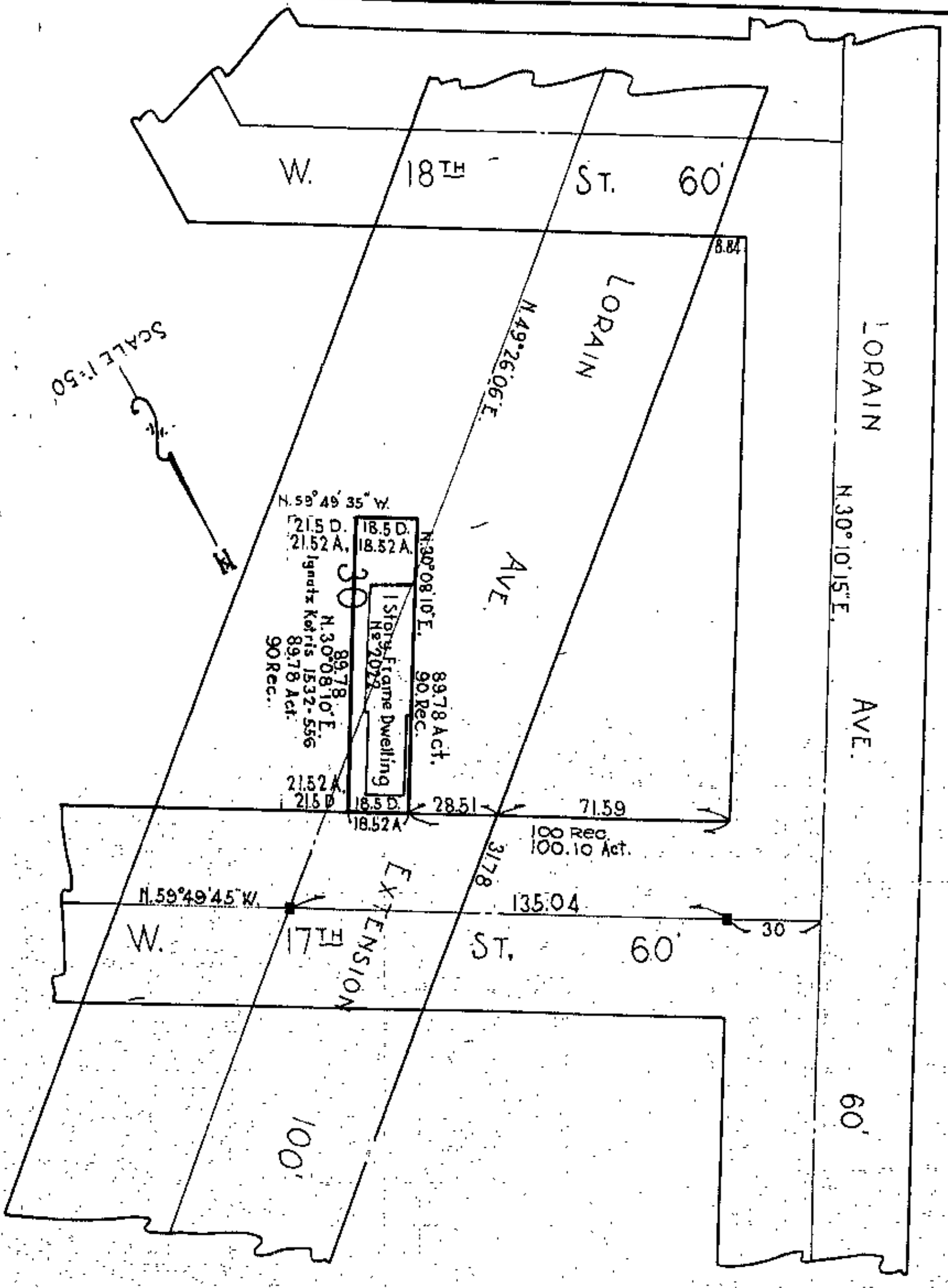






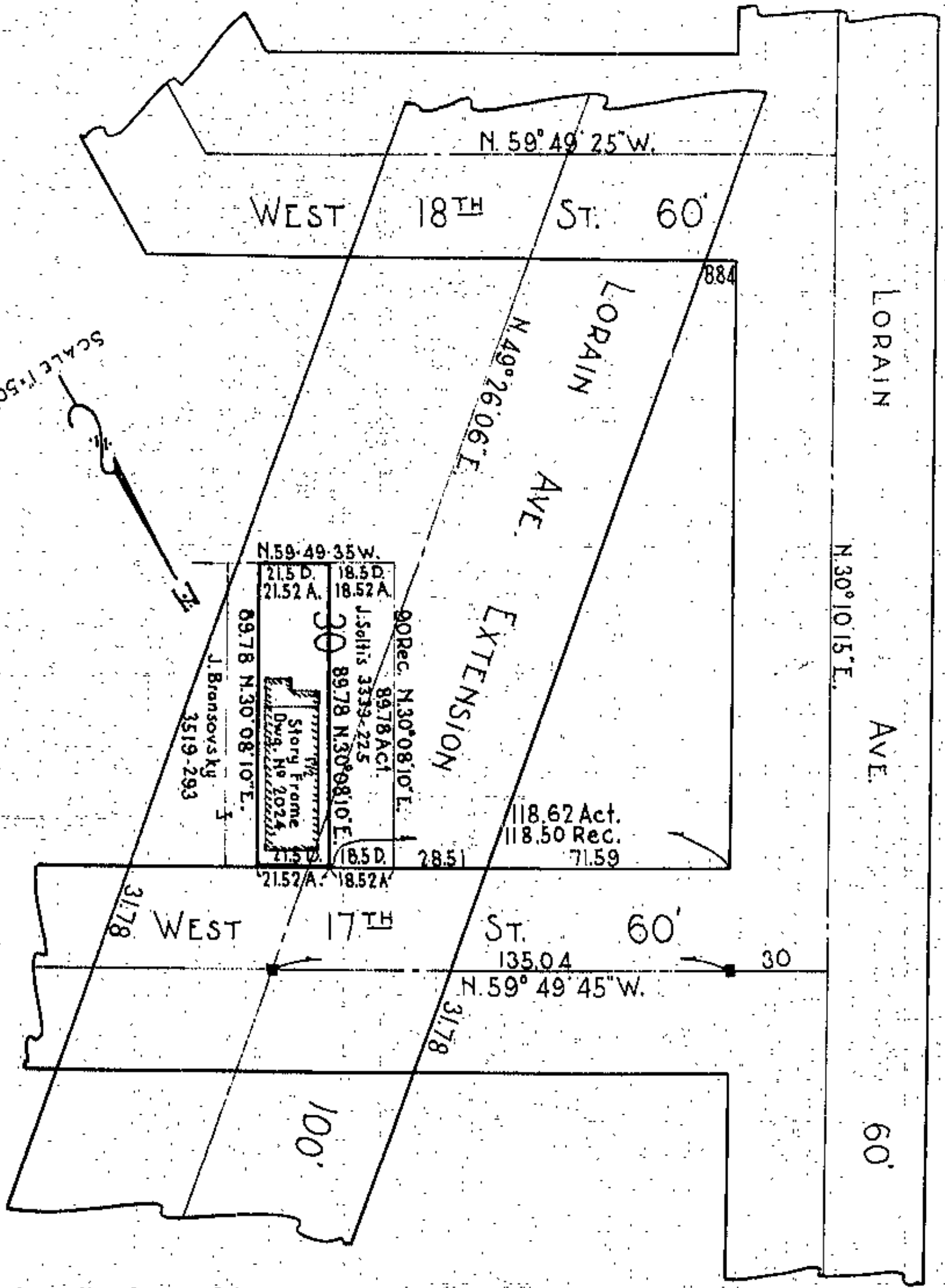


J. SOLTIS  
 PROPERTY  
 No. 2022 WEST 17<sup>TH</sup> ST



10

IGNATZ KOTRIS  
 PROPERTY  
 No. 2024 WEST 17<sup>TH</sup> ST



11

THESE PLATS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH ALL THE REQUIREMENTS OF THE ACTS OF THE LEGISLATURE RELATIVE TO THE RECORDING OF SURVEYS AND PLATS. I AM A LICENSED SURVEYOR IN THE STATE OF MISSOURI AND MY LICENSE NO. IS 3519-293.

DATE: 09-28-2024

BY: J. BRANSOVSKY

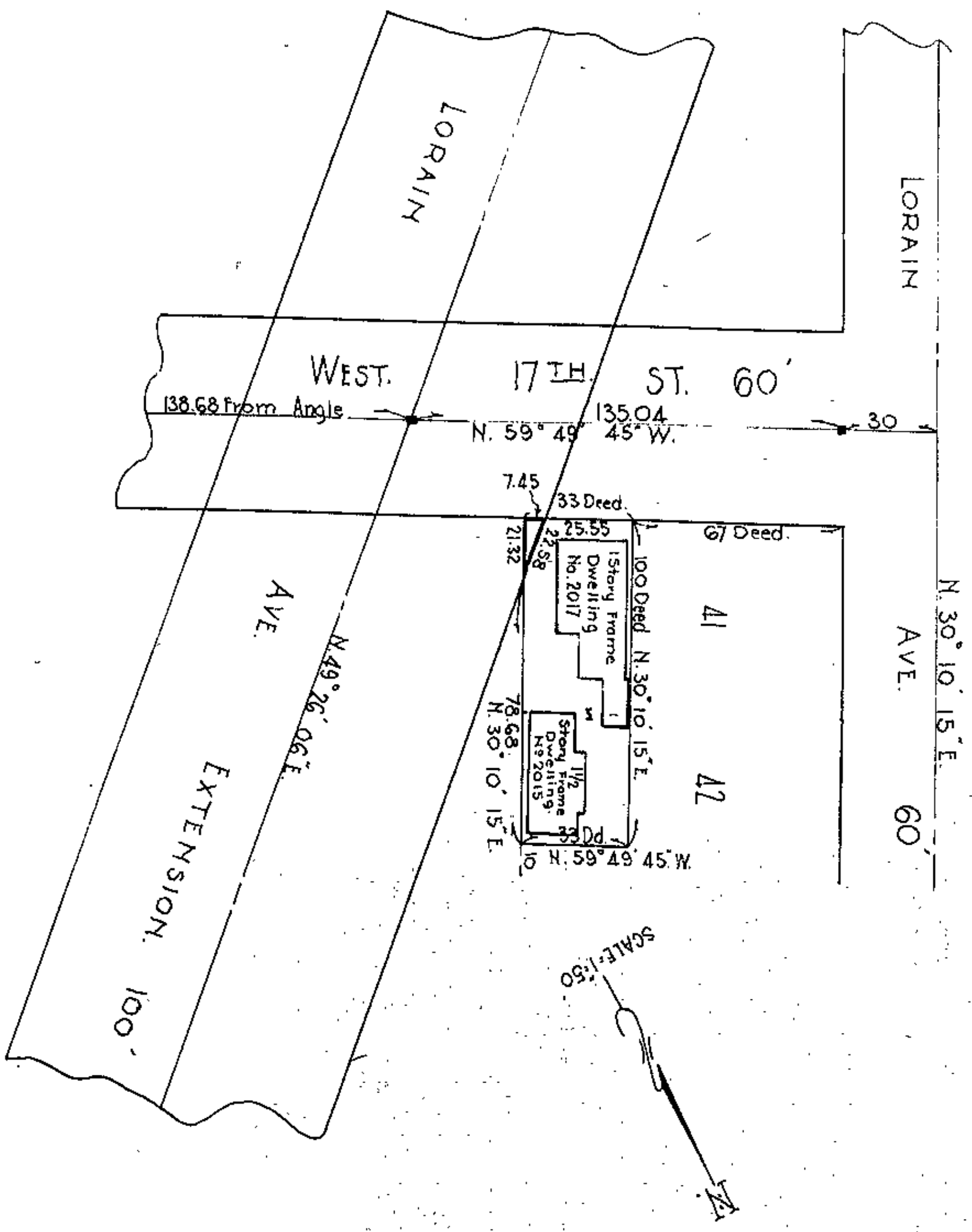
11





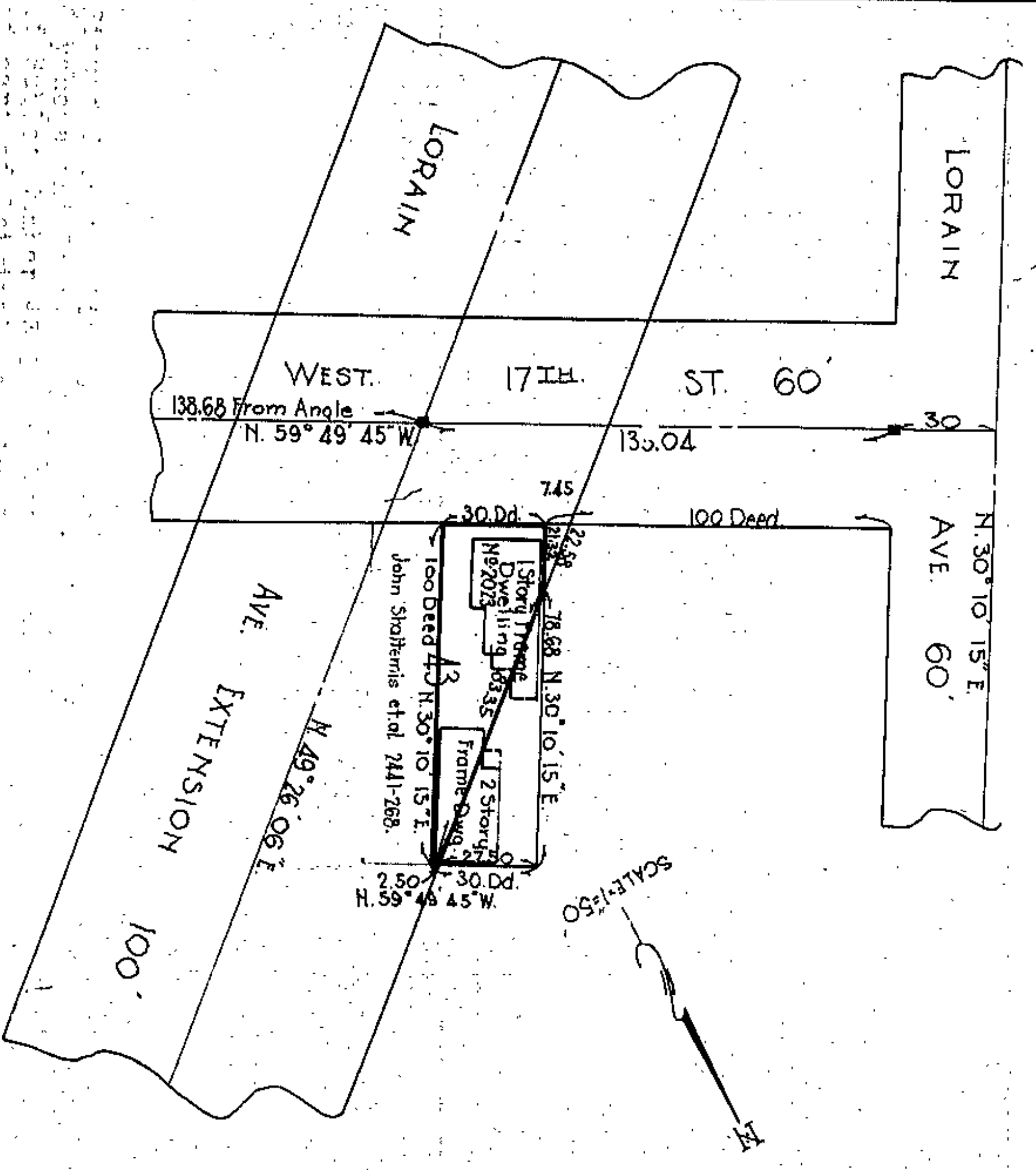


H. & G. CHAPMAN  
 PROPERTY  
 NO. 2015-2017 WEST 17TH ST.



14

PAUL C. SPRENCY  
 PROPERTY  
 NO. 2023 WEST 17TH ST.



15



























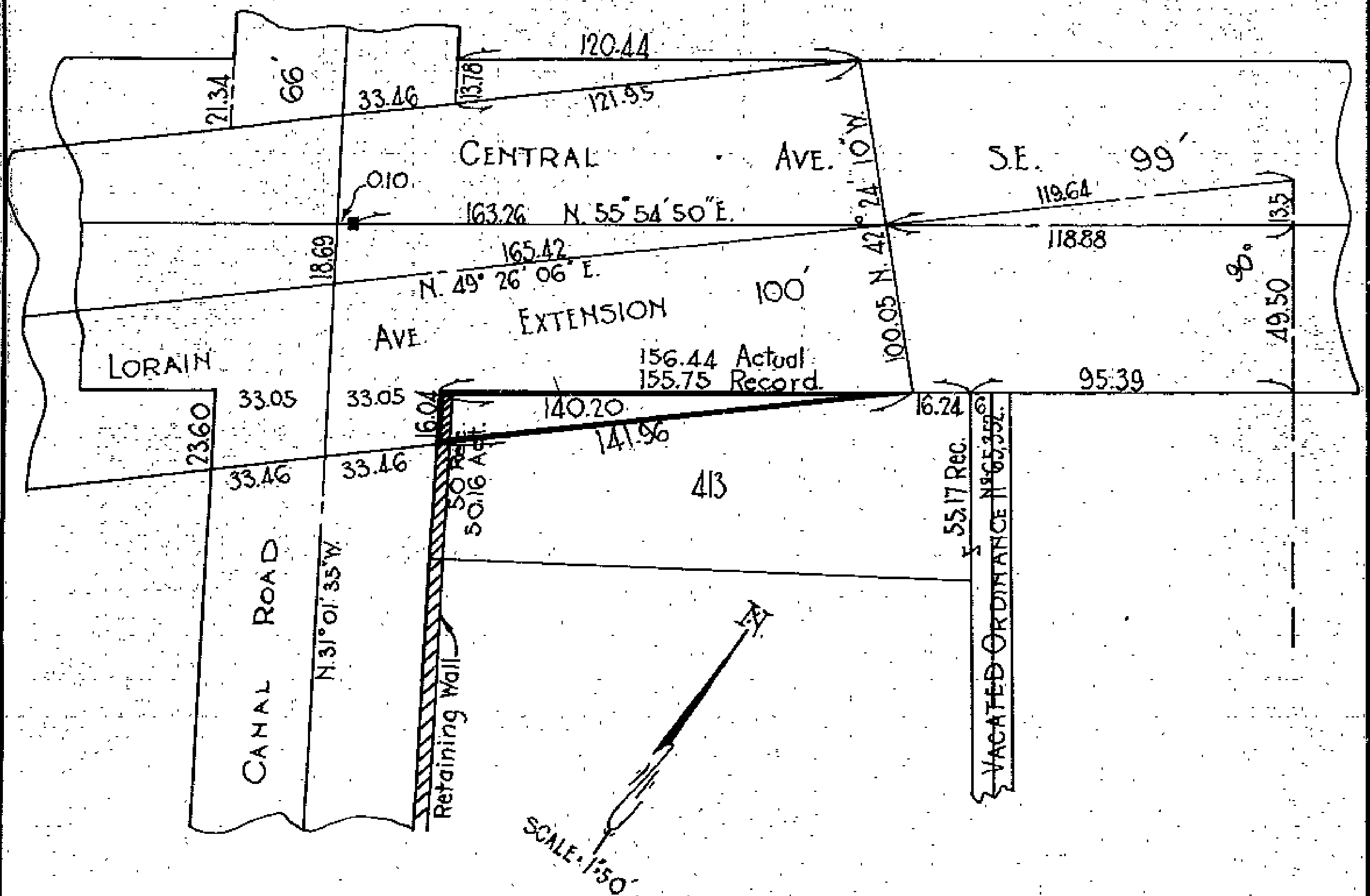








WHEELING & LAKE ERIE RAILROAD  
PROPERTY



Located in the City of Cleveland, County of Cuyahoga and State of Ohio, and comprising being part of Parcel Number 413 in Walworth and Kelley allotment of part of Original 2 Acre Lots Numbers 125 to 131 and 213 to 220 in the village part of Cleveland and part of Original 100 Acre Lot Number 487, according to the plat of said Walworth and Kelley Allotment, recorded in Volume 2 of Maps, Page 26 of Cuyahoga County Records, described as follows:

Beginning at the intersection of the northeasterly line of Central Avenue, S.E. with the northeasterly line of Canal Road; said point of intersection being the east westerly corner of said Parcel Number 413;

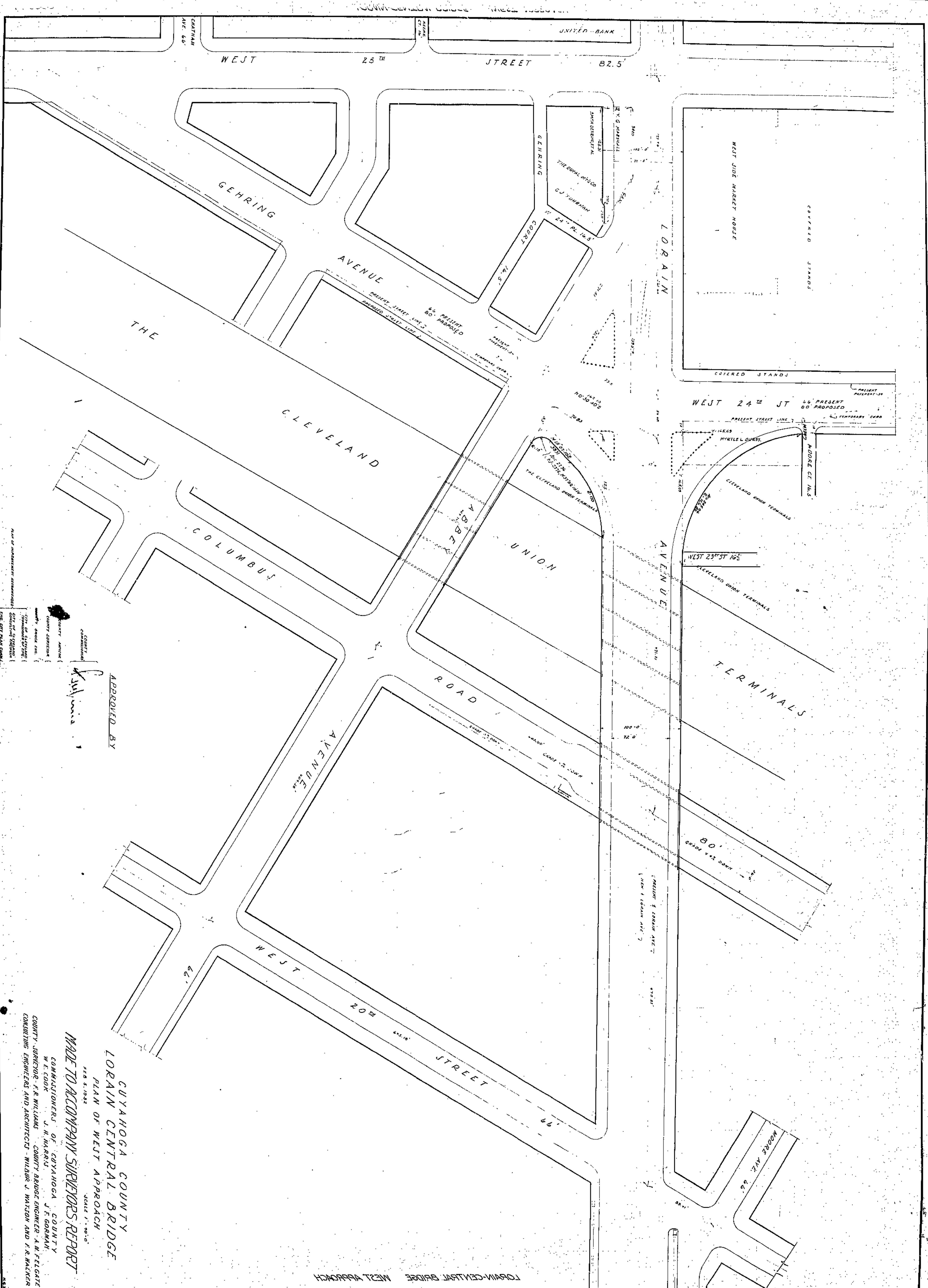
Thence North 55 degrees, 54 minutes, 50 seconds East along the southeasterly line of Central Avenue, S.E., 120.44/100 feet;

Thence South 49 degrees, 26 minutes, 06 seconds West, 141.96/100 feet to the northeasterly line of Canal Road;

Thence North 31 degrees, 01 minute, 35 seconds West along the northeasterly line of Canal Road, 16.04/100 feet to the beginning.

The courses used in this description are given to an assumed meridian and are used to indicate angles only.



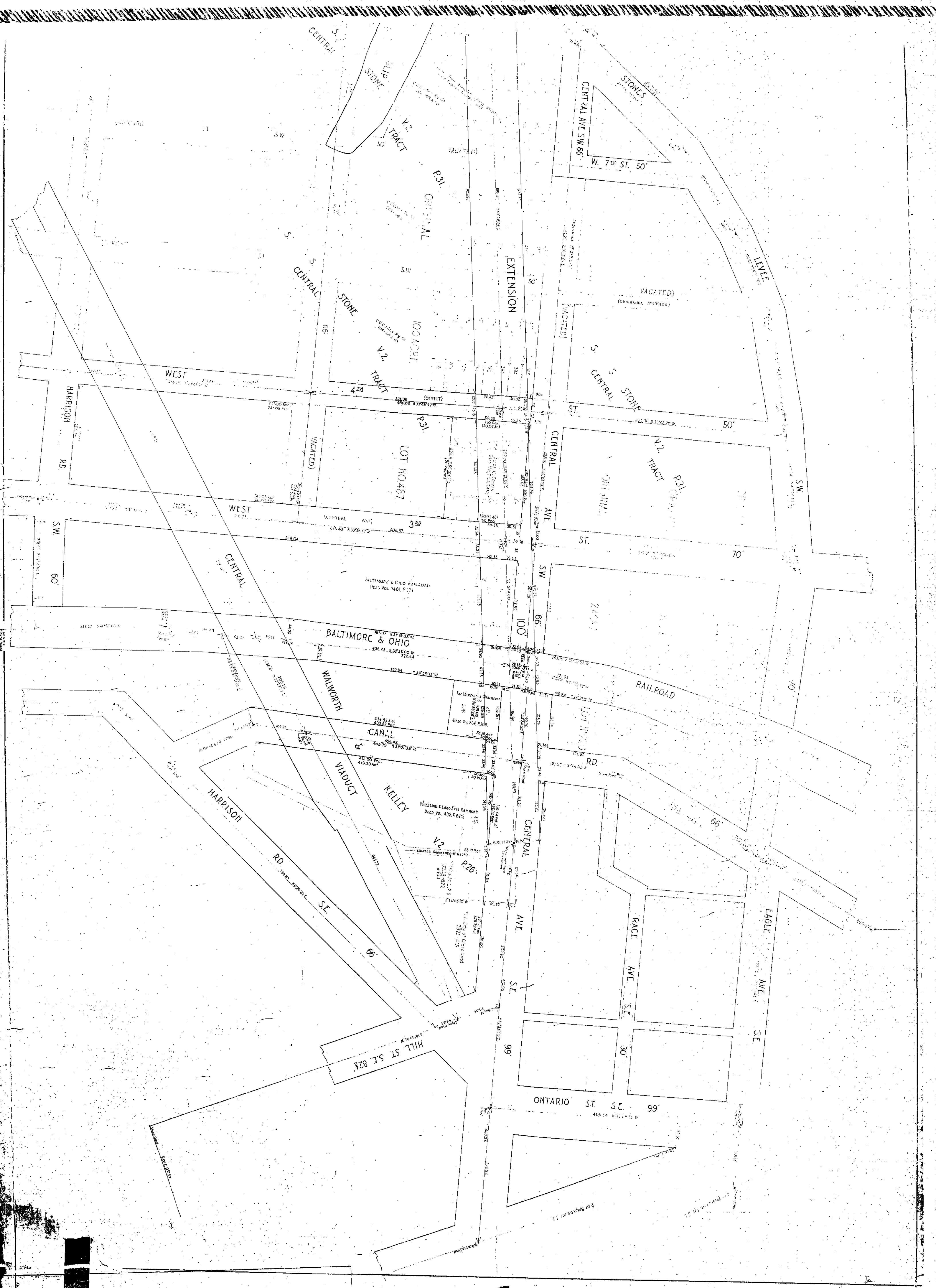


APPROVED BY  
*[Signature]*

CUYAHOGA COUNTY  
 LORAIN CENTRAL BRIDGE  
 PLAN OF WEST APPROACH  
 FEB 5, 1922  
 MADE TO ACCOMPANY SURVEYORS REPORT  
 COMMISSIONERS OF CUYAHOGA COUNTY  
 W. E. COOK J. H. HARRIS J. E. GORMAN  
 COUNTY SURVEYOR - F. R. WILLIAMS COUNTY BRIDGE ENGINEER - A. M. FELTGATE  
 CONSULTING ENGINEERS AND ARCHITECTS - WILBUR J. HATZON AND F. R. HARKER

LORAIN-CENTRAL BRIDGE WEST APPROACH





CENTRAL S.

STONE TRACT V.2

P.31 ORIGINAL

STONE'S  
CENTRAL AVE SW 66'  
W. 7<sup>TH</sup> ST. 50'

S. CENTRAL

STONE TRACT V.2

P.31

VACATED  
(ORDINANCE NO. 239124)

S. CENTRAL ST.

V.2 TRACT P.31

WEST

HARRISON RD.

LOT NO. 487

WEST

3<sup>RD</sup>

CENTRAL AVE SW

ST.

70'

CENTRAL

BALTIMORE & OHIO RAILROAD  
Deed Vol. 3461 P. 271

BALTIMORE & OHIO

RAILROAD

WALMOUTH

CANAL

VIADUCT

KELLY

RD.

HARRISON RD.

SE

V.2

P.26

CENTRAL AVE SW

PAGE AVE. S.E.

EAGLE AVE. S.E.

HILL ST. S.E. 82'

99'

30'

ONTARIO ST. S.E. 99'



# LORAIN-CENTRAL BRIDGE

## PROPERTY MAP

SHOWING

THE EXTENSION OF LORAIN AVENUE A COUNTY ROAD FROM WEST 19<sup>TH</sup> STREET ACROSS THE VALLEY OF CUYAHOGA RIVER TO BROADWAY S.E. IN THE CITY OF CLEVELAND BEING PART OF ORIGINAL BROOKLYN TOWNSHIP LOT NO. 70 AND PART OF ORIGINAL ONE HUNDRED ACRE LOT NO. 487.

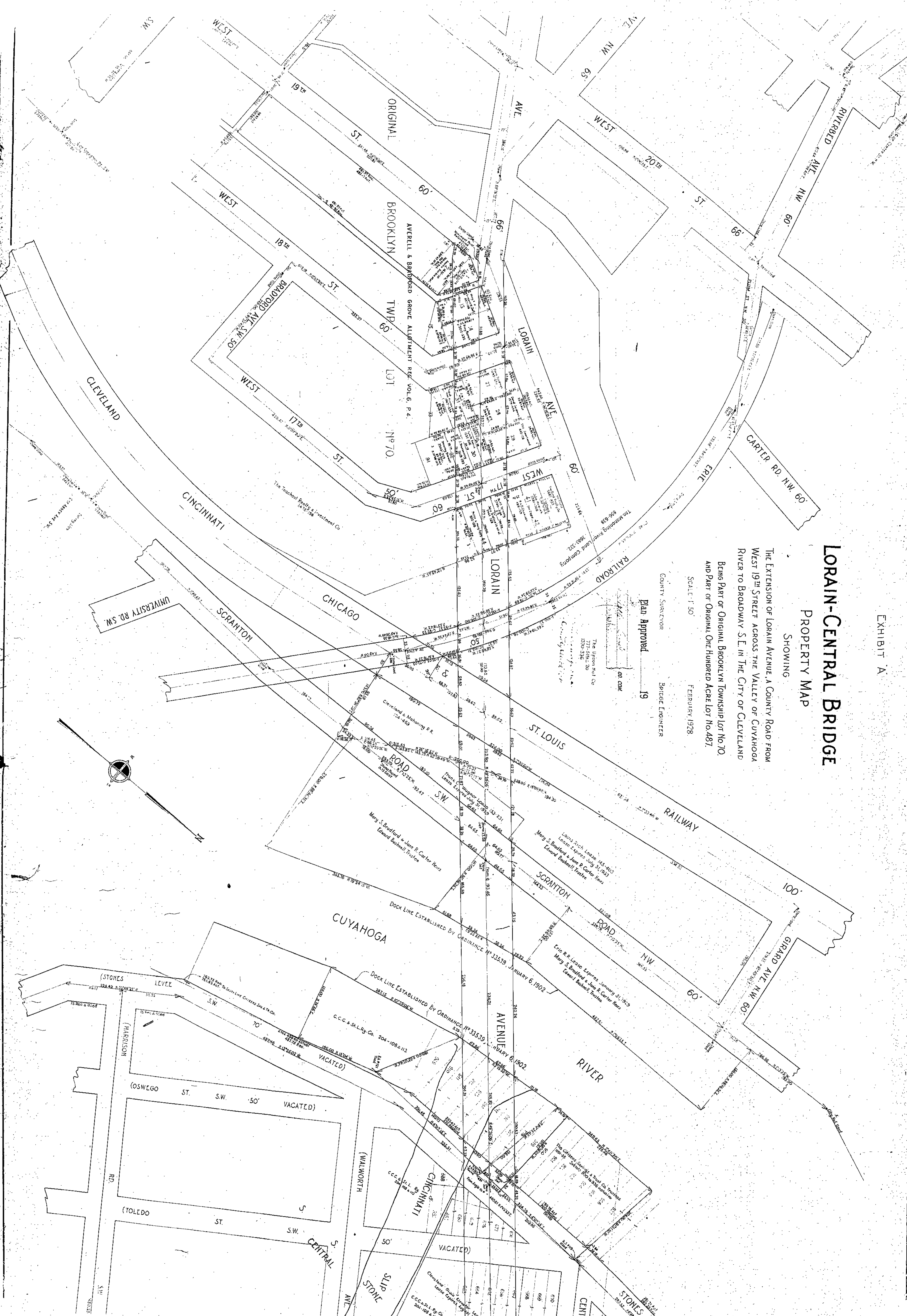
SCALE: 1" = 50'

FEBRUARY 1928

COUNTY SURVEYOR

BRIDGE ENGINEER

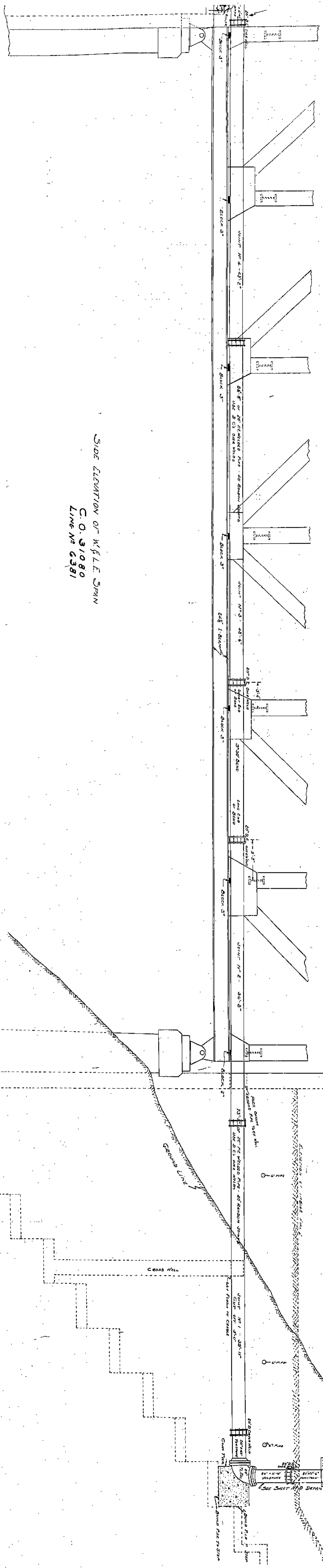
Plan Approved 19



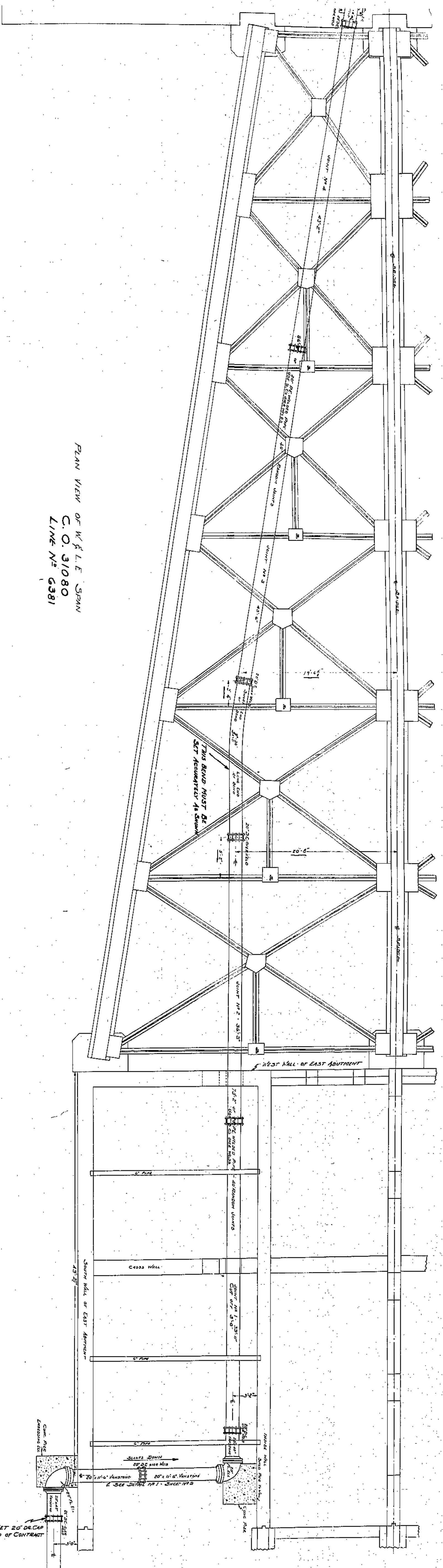






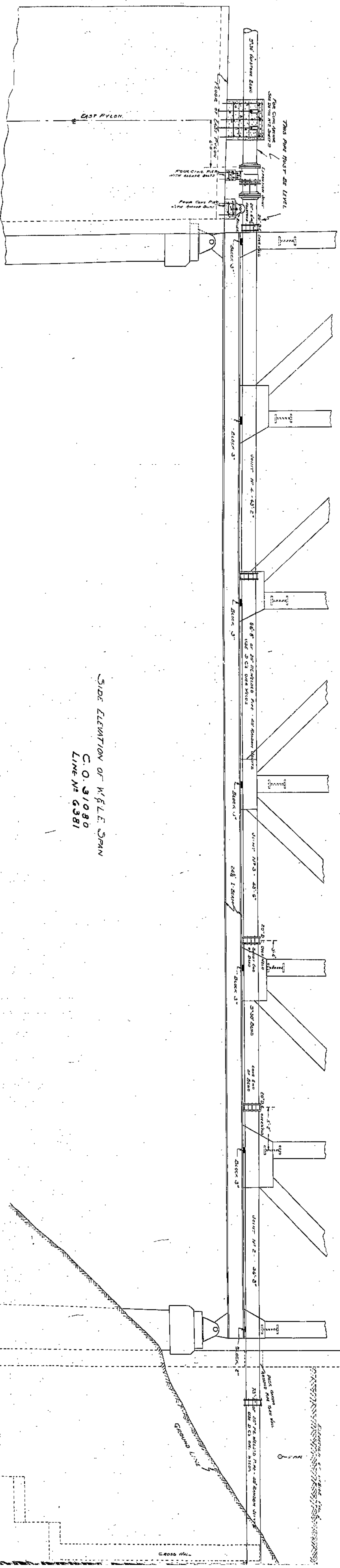


SIDE ELEVATION OF W.F.L.E. SPAN  
 C. O. 31080  
 LINE NO. 6381

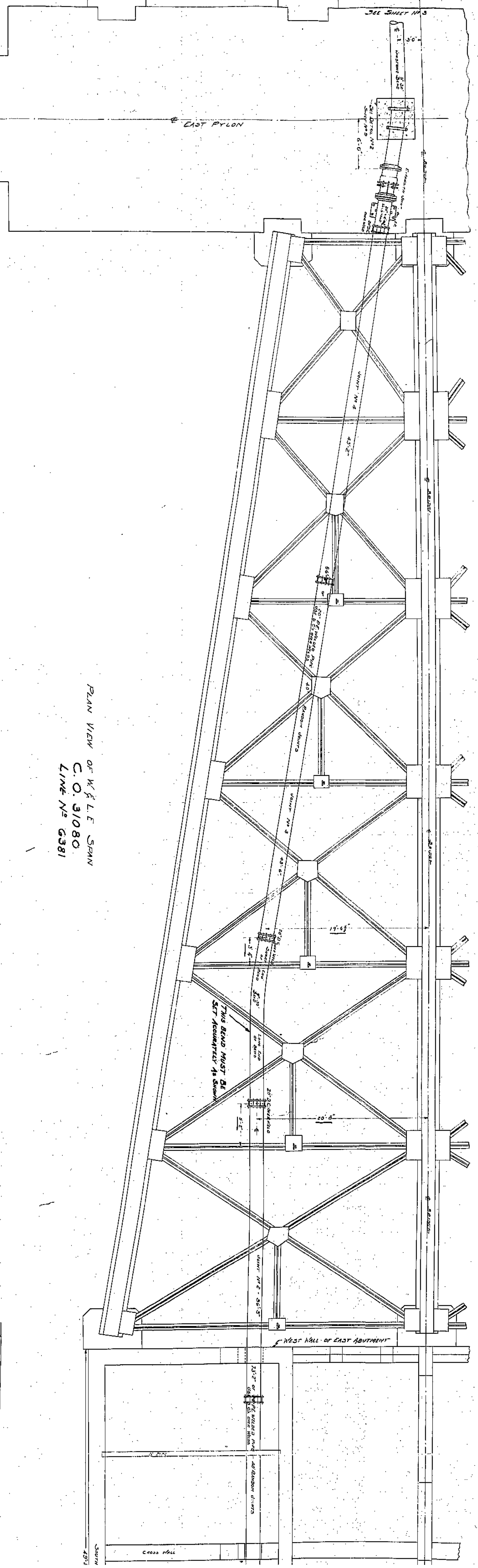


PLAN VIEW OF W.F.L.E. SPAN  
 C. O. 31080  
 LINE NO. 6381



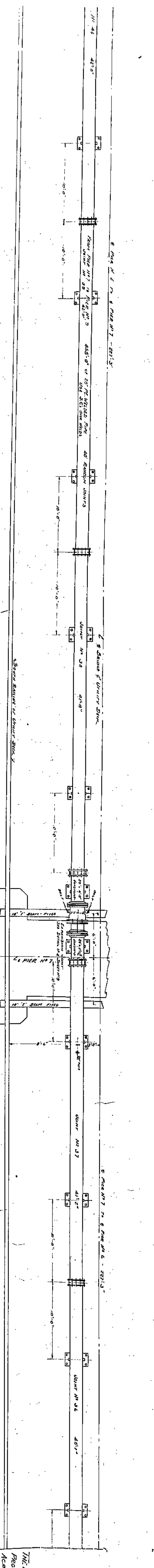
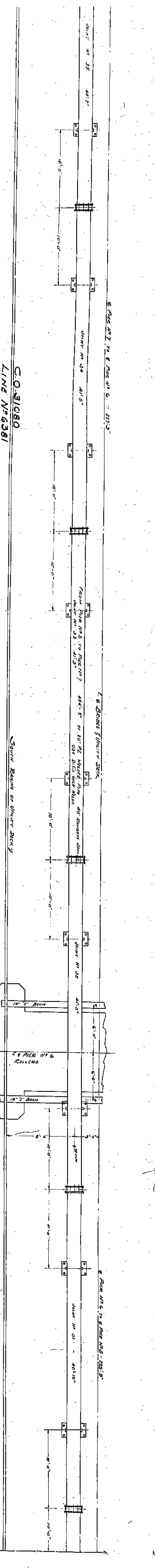
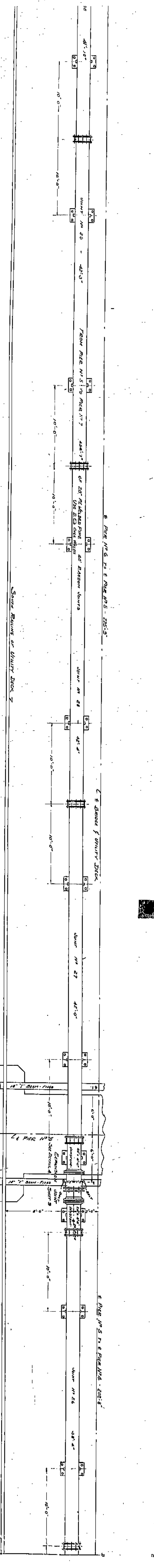
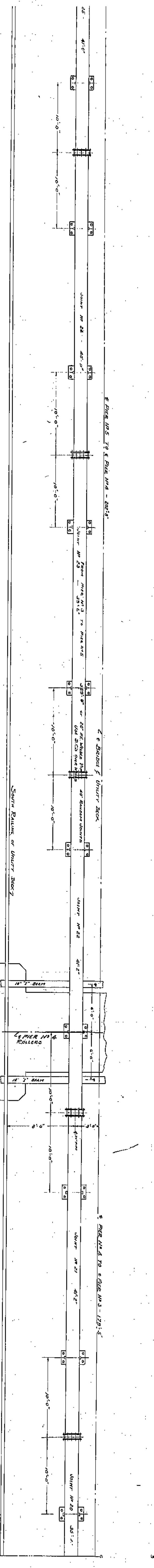
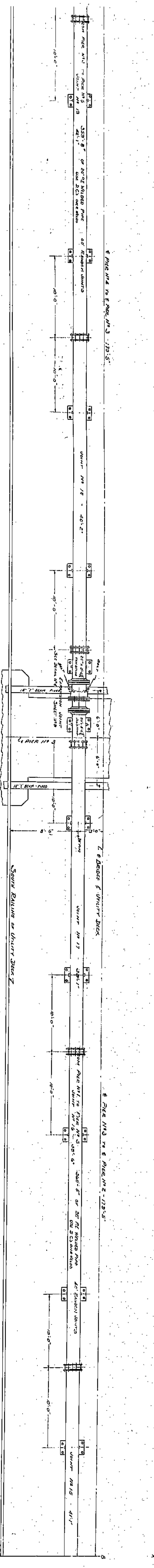
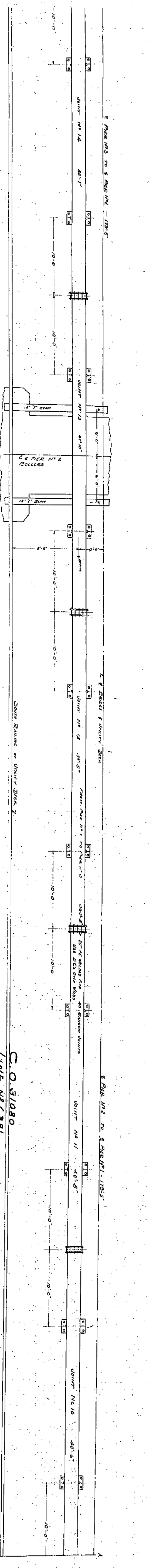
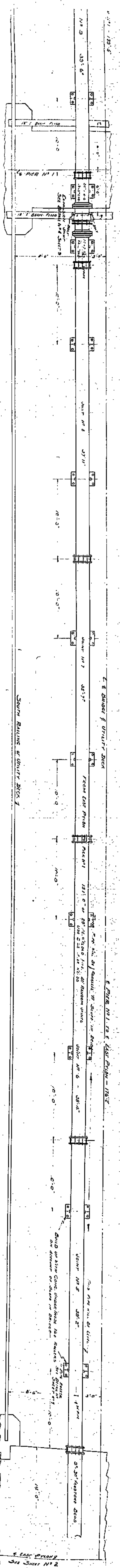


SIDE ELEVATION OF W.G.L.E. SPAN  
 C.O. 31080  
 LINE N° 6381



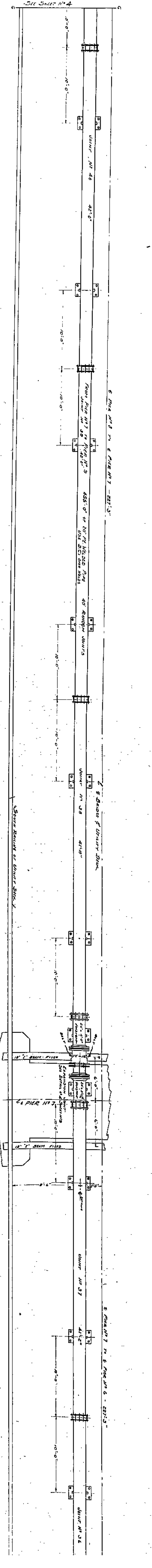
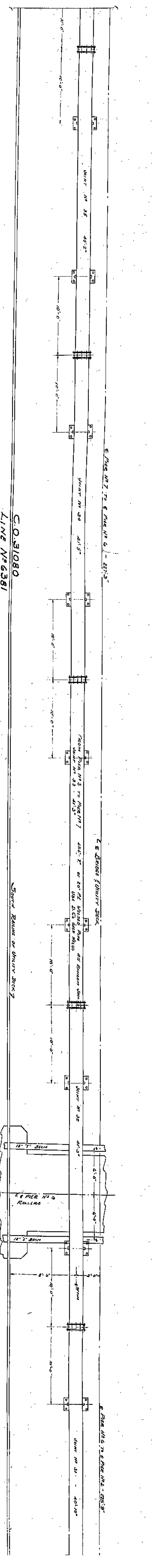
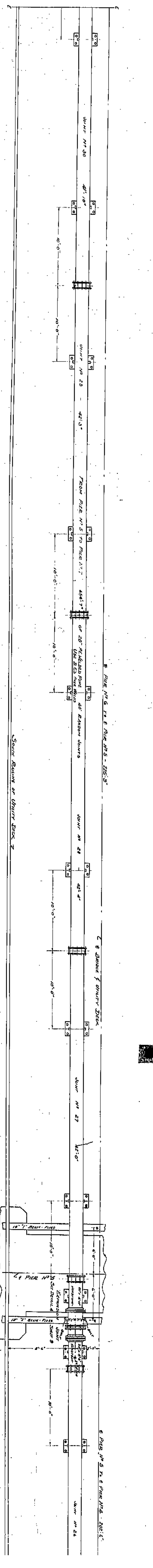
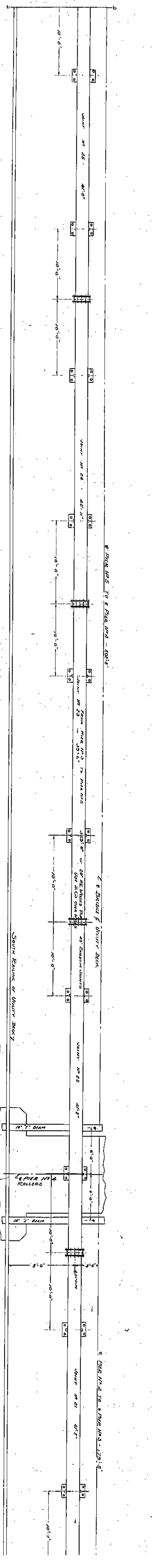
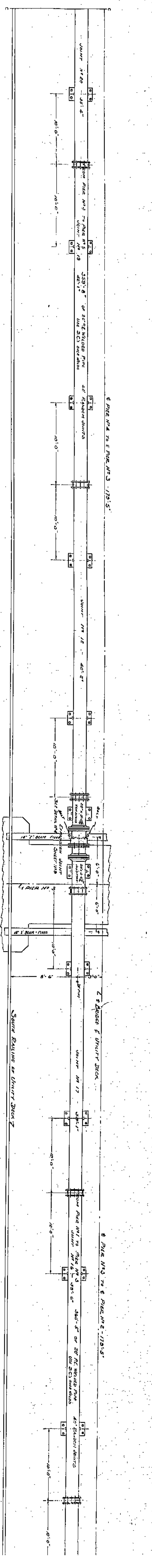
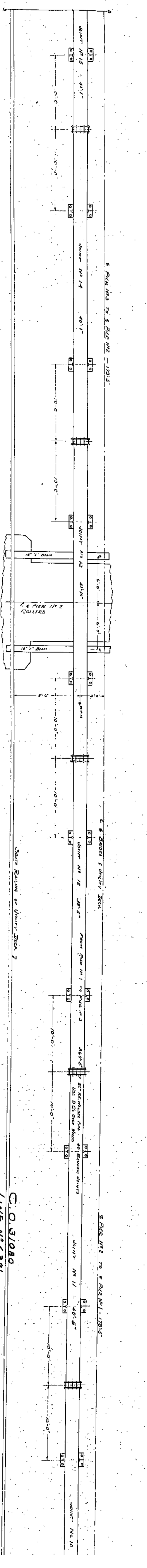
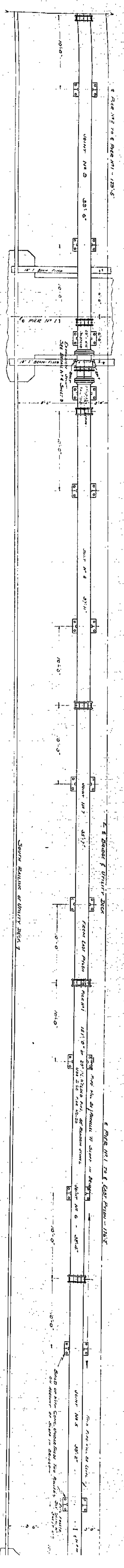
PLAN VIEW OF W.G.L.E. SPAN  
 C.O. 31080  
 LINE N° 6381





THE EAST OHIO GAS CO.  
 Proposed 20" W.P.M. 1  
 Kansas Utility, Inc.  
 of Leban, Kansas, Kans.  
 Date: 11/13/24, 8:00 AM  
 Sheet No. 3 of 5

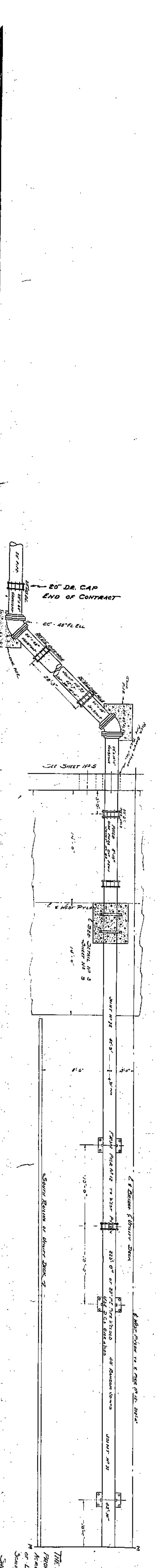
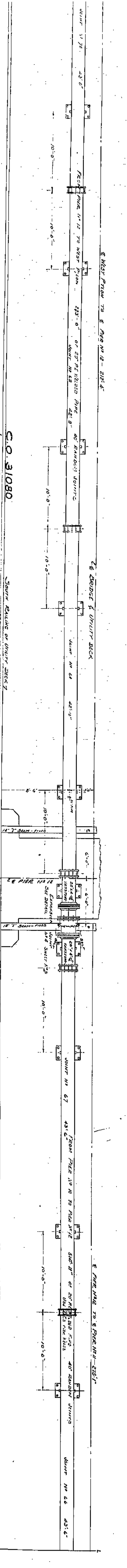
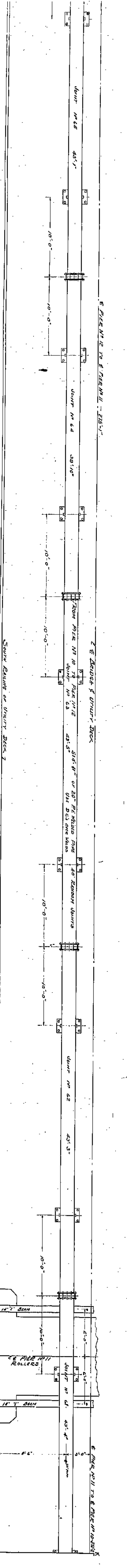
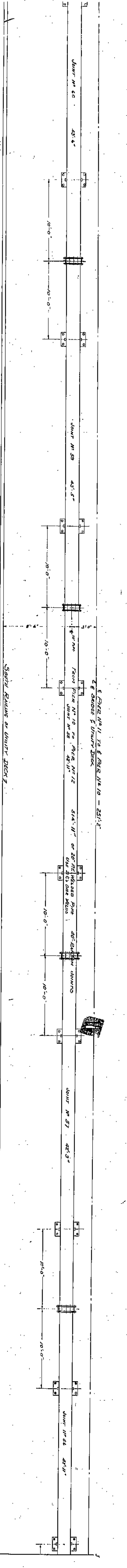
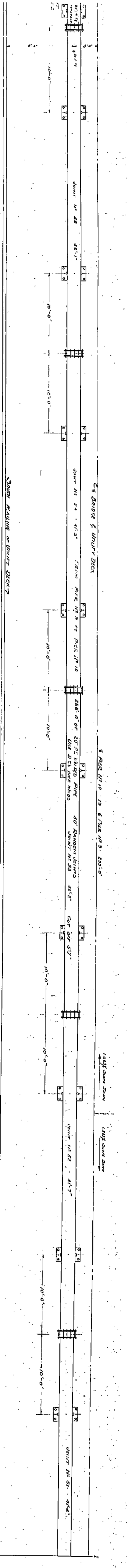
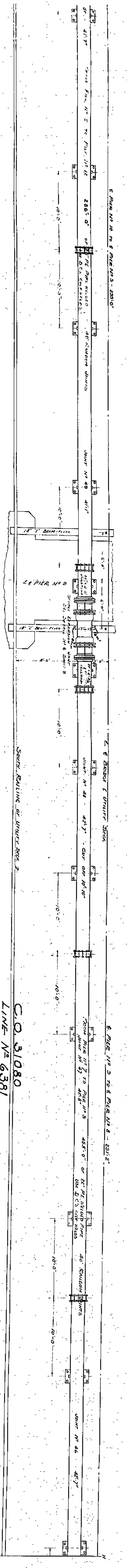
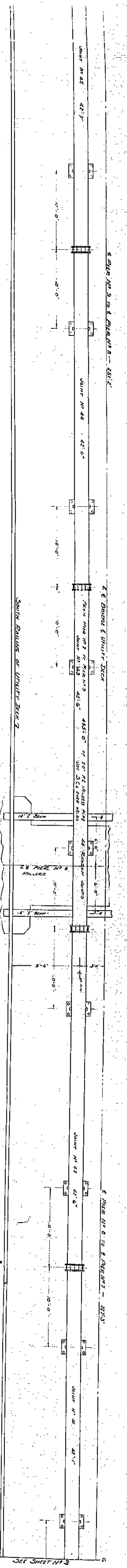




C.O. 31080  
LINE NO. 6381

C.O. 31080  
LINE NO. 6381



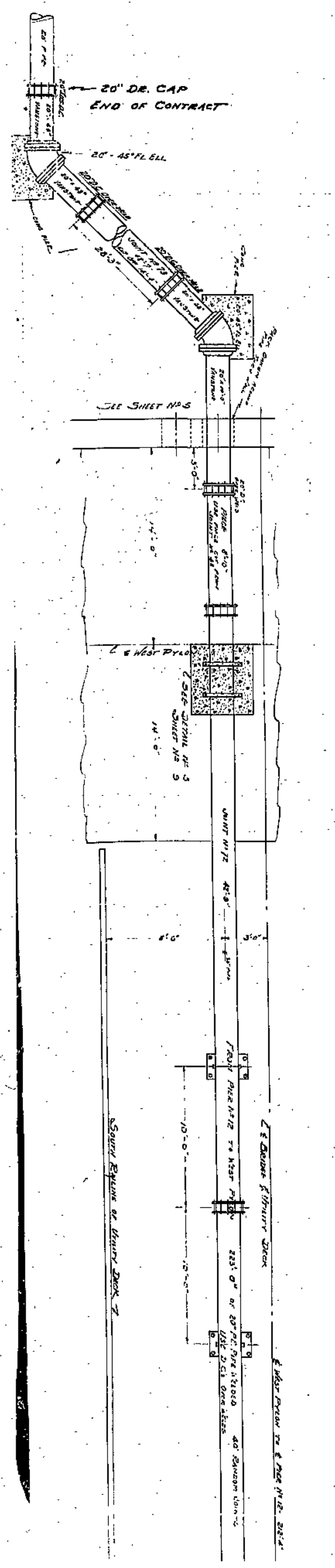
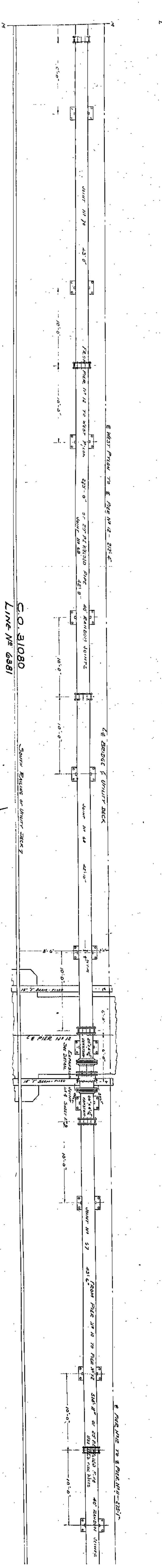
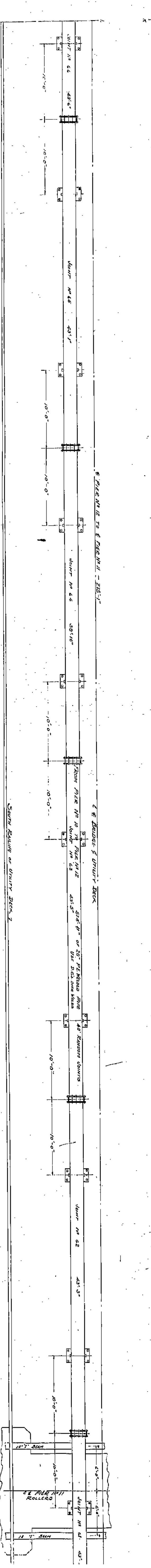
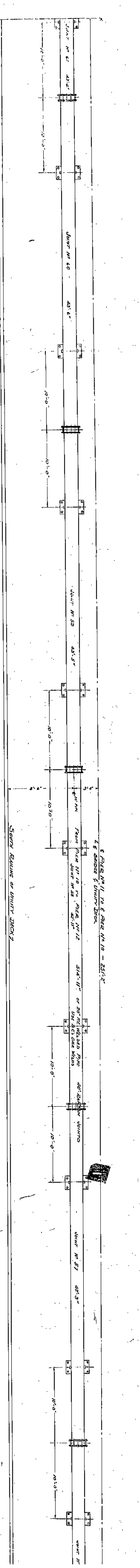
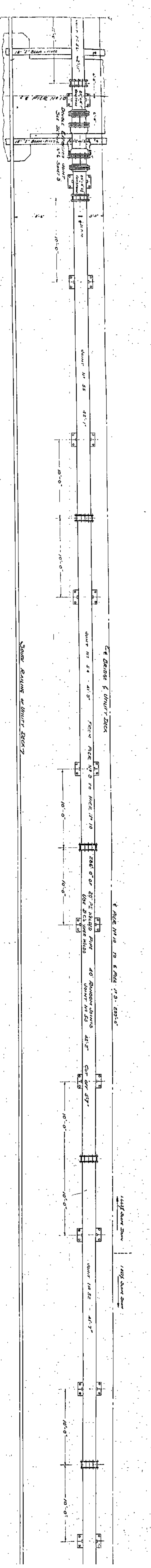
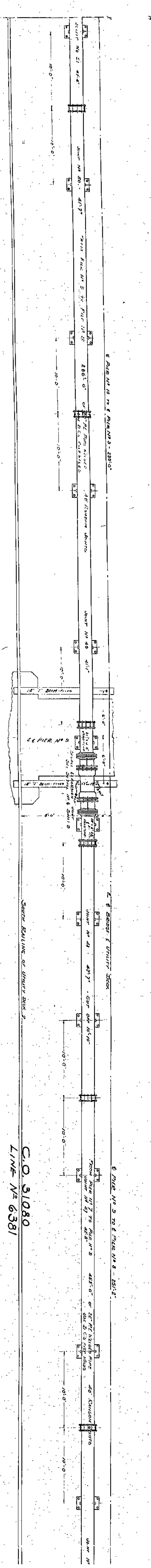
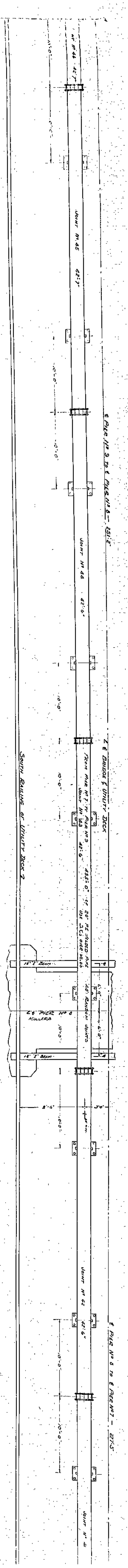


C.O. 31080  
LINE No 6381

C.O. 31080  
LINE No 6381

THE EAST OHIO  
Prepared 2014  
Access Structure  
of Lamson, Ohio  
Sheet No. 2 of 2

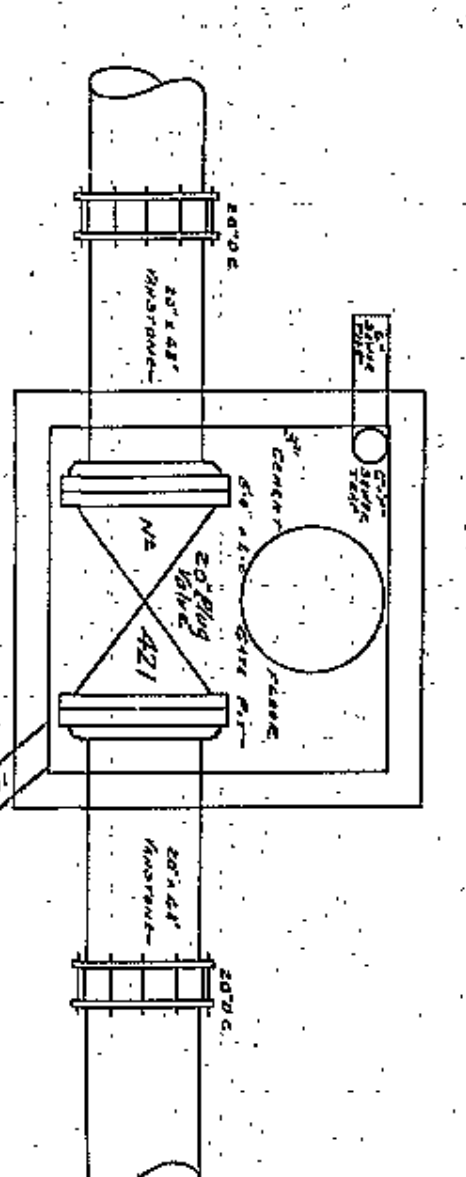
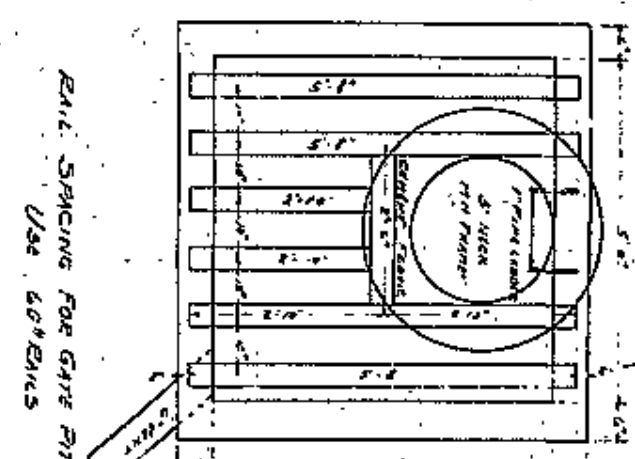
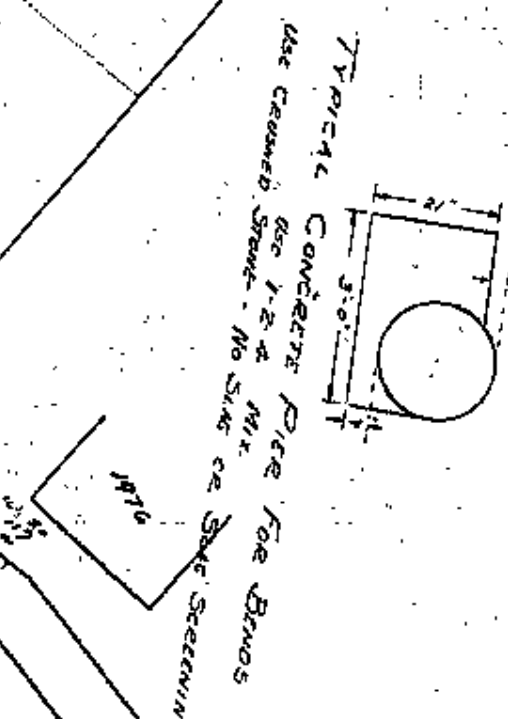
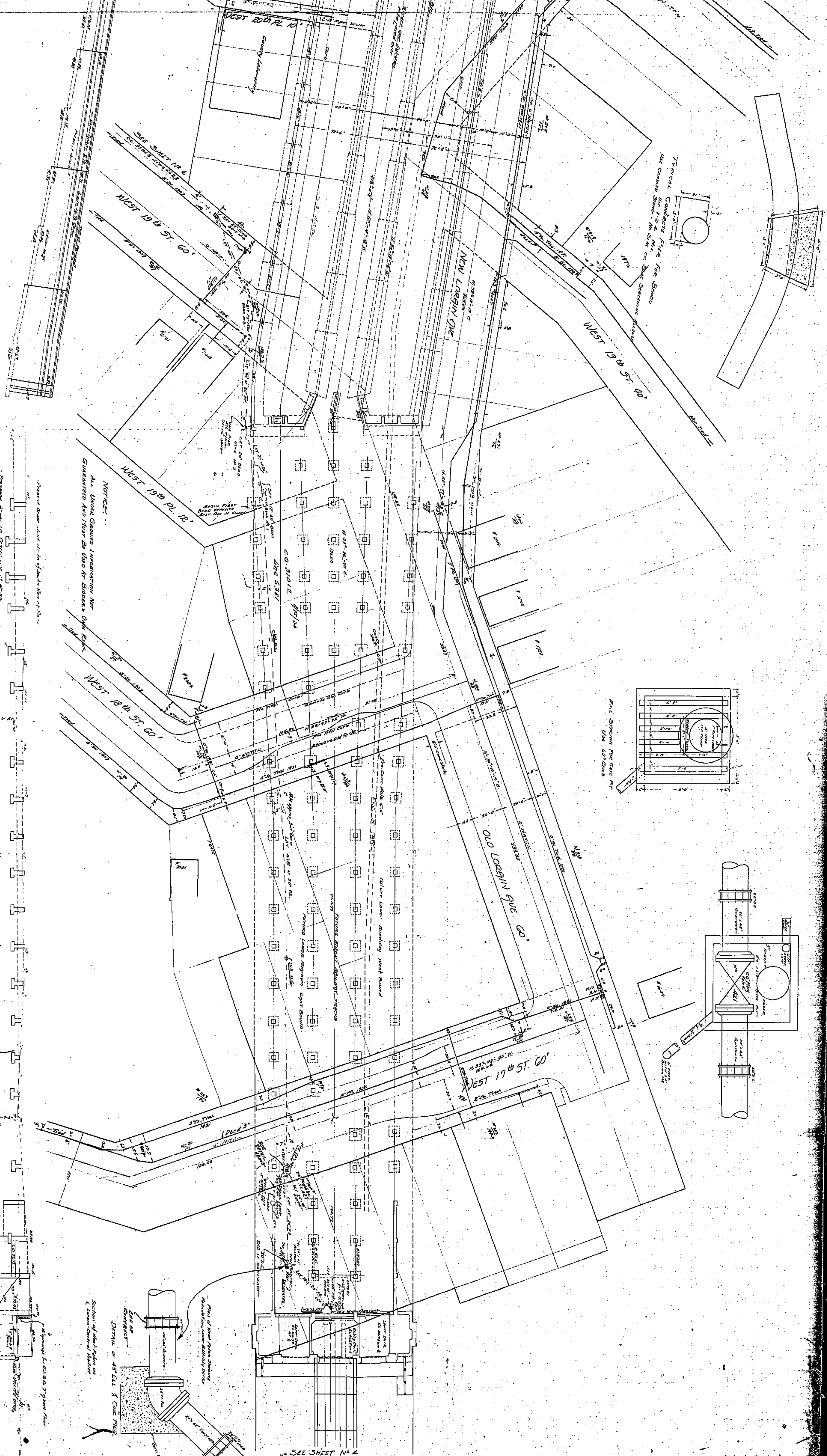




C.O. 31080  
LINE No 6381

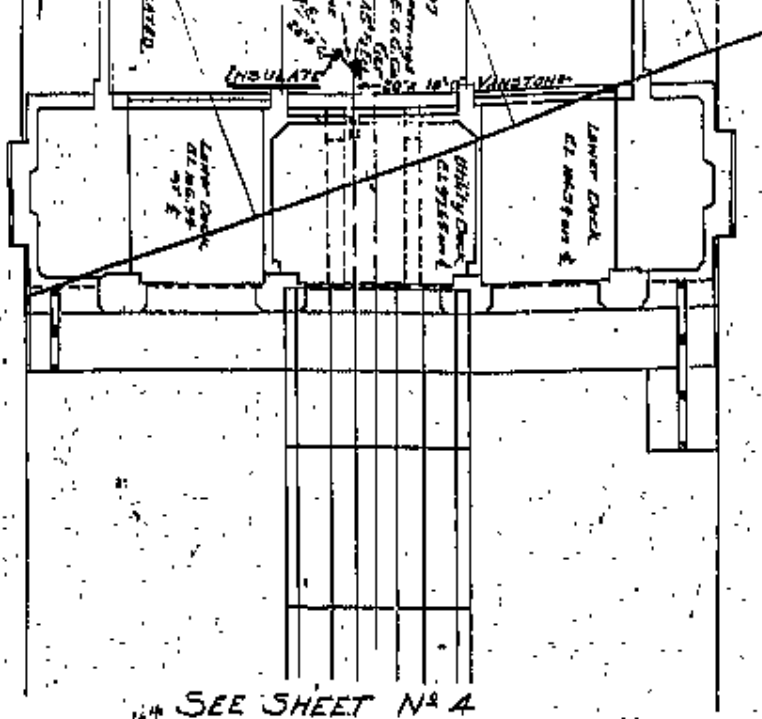
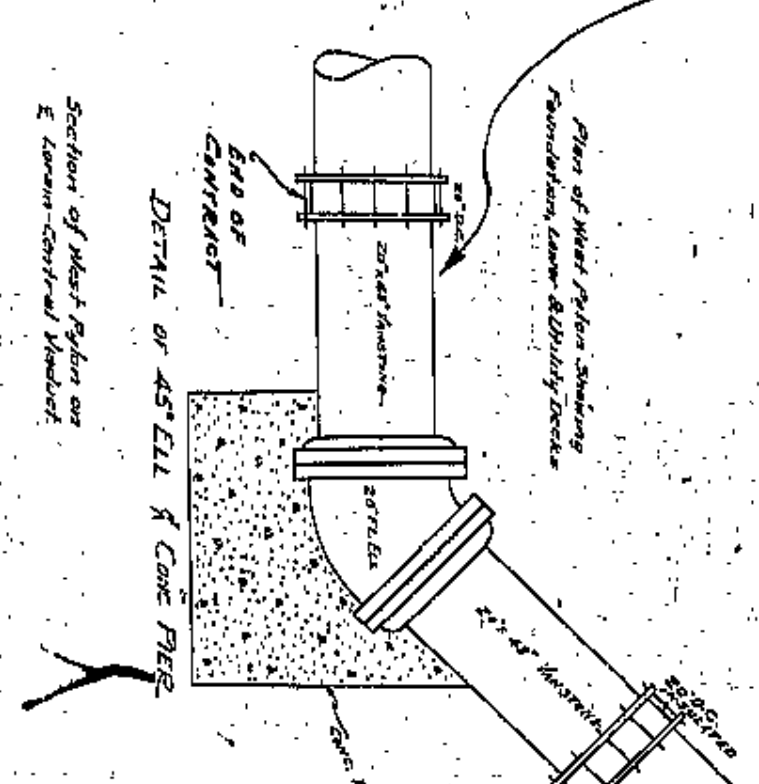
C.O. 31080  
LINE No 6381





NOTICE: -  
All Under Ground Installation Not  
Guaranteed And Not To Be Used For Burial Or Other  
Purposes.

Project done under authority of  
Professional Engineer in Charge  
of the Department of Public Works  
City of Los Angeles



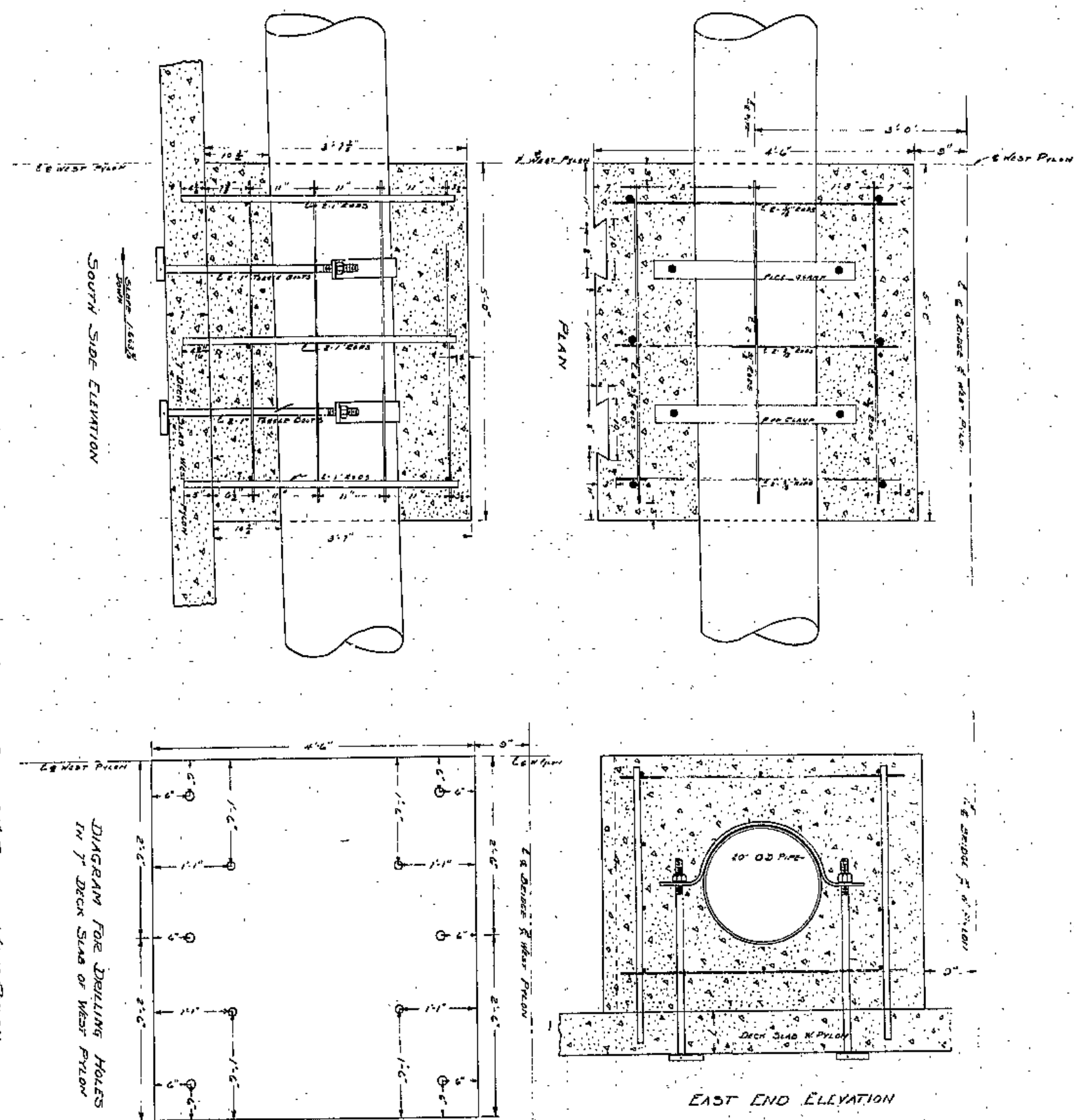
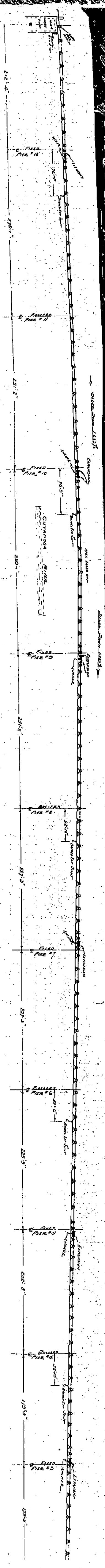
SEE SHEET NA 4

THE EAST OVIQ G. 3.0  
Proposed 20' H.P. 10"  
Under West Area  
of Logan Central  
Sheet 120, 121, 122  
Sheet No. 91 of 121





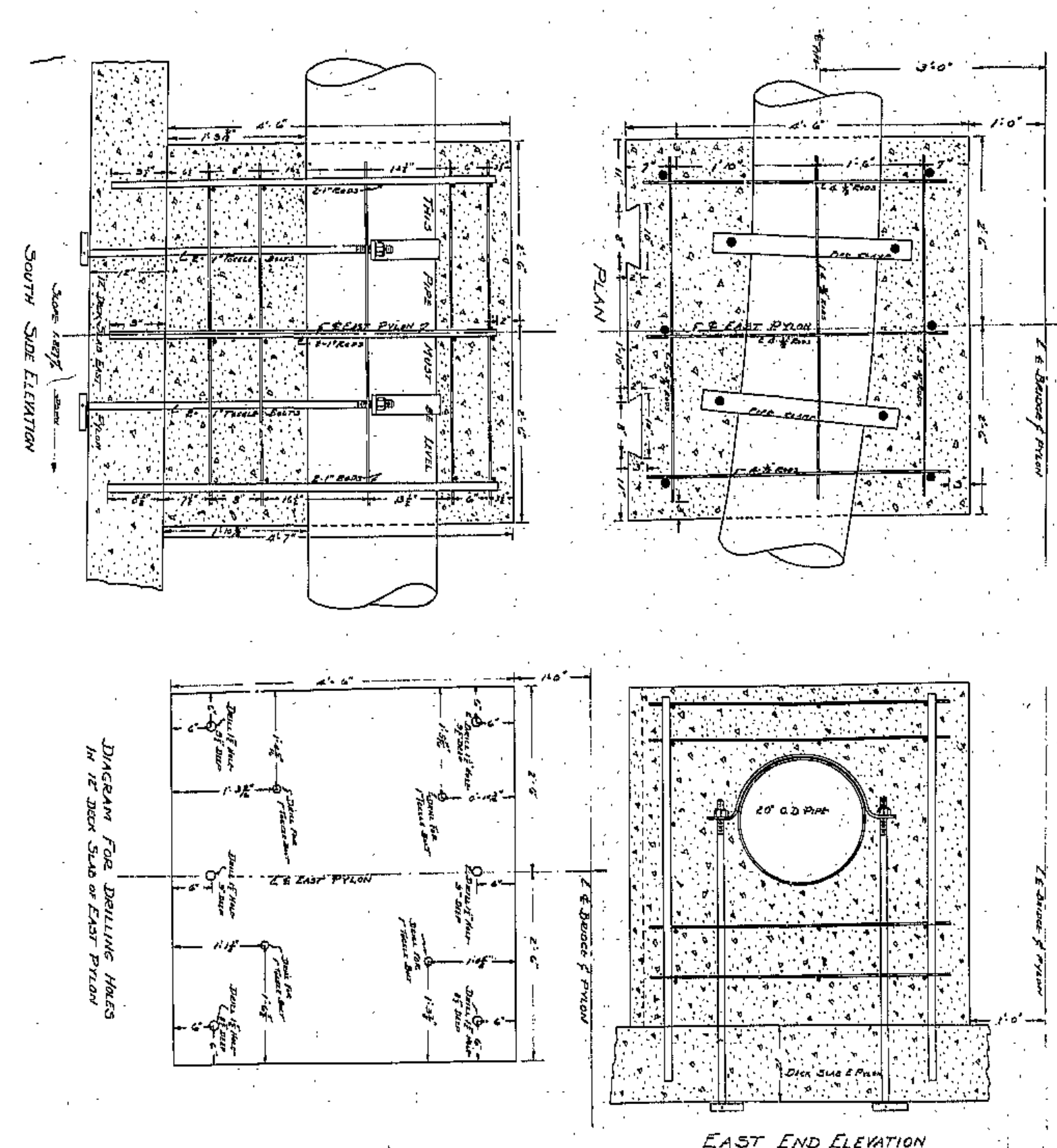




DETAILS OF CONCRETE ANCHOR OVER 20" PIPE AT WEST PYLON  
SCALE 1"=1'-0"

DETAIL NO. 3

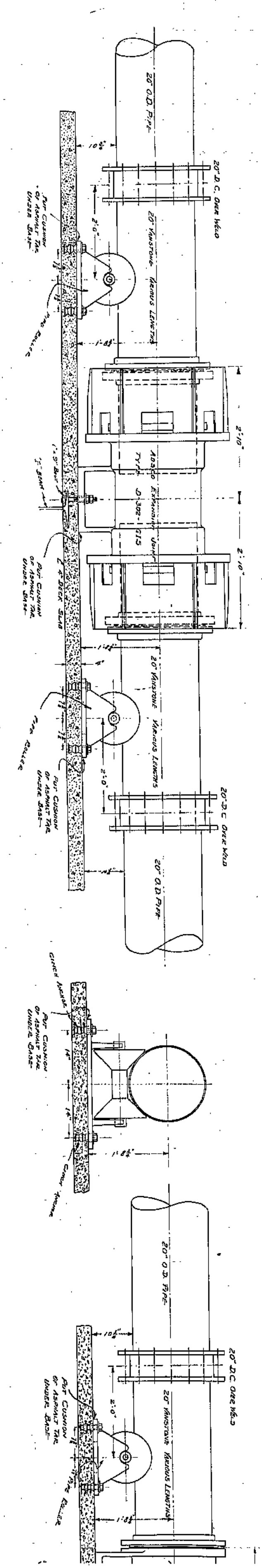
MATERIALS REQUIRED:  
 1. 1'-0" Concrete (for anchor)  
 2. 1'-0" Concrete (for deck slab)  
 3. 1'-0" Concrete (for pylon)  
 4. 1'-0" Concrete (for deck slab)  
 5. 1'-0" Concrete (for pylon)  
 6. 1'-0" Concrete (for deck slab)  
 7. 1'-0" Concrete (for pylon)  
 8. 1'-0" Concrete (for deck slab)



DETAILS OF CONCRETE ANCHOR OVER 20" PIPE AT EAST PYLON  
SCALE 1"=1'-0"

DETAIL NO. 2

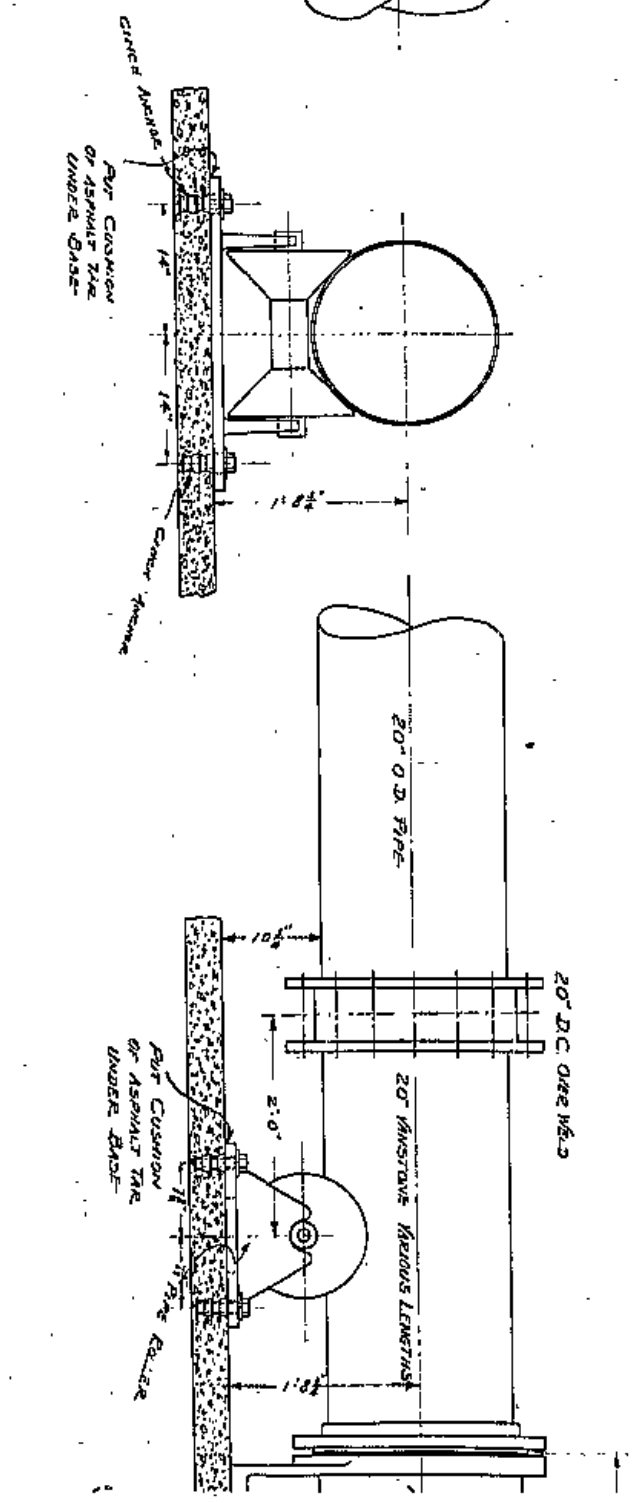
MATERIALS REQUIRED:  
 1. 1'-0" Concrete (for anchor)  
 2. 1'-0" Concrete (for deck slab)  
 3. 1'-0" Concrete (for pylon)  
 4. 1'-0" Concrete (for deck slab)  
 5. 1'-0" Concrete (for pylon)  
 6. 1'-0" Concrete (for deck slab)  
 7. 1'-0" Concrete (for pylon)  
 8. 1'-0" Concrete (for deck slab)



TYPICAL DETAIL OF DOUBLE EXPANSION JOINT  
SCALE 1"=1'-0"

DETAIL NO. 6

MATERIALS REQUIRED FOR EACH EXPANSION JOINT:  
 1. 1'-0" Concrete (for anchor)  
 2. 1'-0" Concrete (for deck slab)  
 3. 1'-0" Concrete (for pylon)  
 4. 1'-0" Concrete (for deck slab)  
 5. 1'-0" Concrete (for pylon)  
 6. 1'-0" Concrete (for deck slab)  
 7. 1'-0" Concrete (for pylon)  
 8. 1'-0" Concrete (for deck slab)



TYPICAL DETAIL OF PIPE ROLLER  
SCALE 1"=1'-0"

DETAIL NO. 5

MATERIALS REQUIRED FOR EACH ROLLER:  
 1. 1'-0" Concrete (for anchor)  
 2. 1'-0" Concrete (for deck slab)  
 3. 1'-0" Concrete (for pylon)  
 4. 1'-0" Concrete (for deck slab)  
 5. 1'-0" Concrete (for pylon)  
 6. 1'-0" Concrete (for deck slab)  
 7. 1'-0" Concrete (for pylon)  
 8. 1'-0" Concrete (for deck slab)

C.O. 3/080  
LINE NO. 6381

TYPICAL



No. 68

LORRAIN CARNegie BRIDGE

Existing and Proposed Equipment

Over the Roadway

LORRAIN CARNegie BRIDGE

Along the Bridge

Along the Bridge

Future Equipment

Site plan showing the location of the bridge through the district, bridge over the road, and the location of the bridge. The location of the bridge is shown in the plan view of the work to be completed.

ONTARIO AVE.

ONTARIO AVE.

**THE CANADIAN**  
 ENGINEERS  
 ARCHITECTS  
 AND  
 SURVEYORS  
 100 BAY STREET  
 TORONTO, ONTARIO  
 DEPOSITED IN ACCORDANCE WITH THE  
 PATENT ACT  
 AT TORONTO, ONTARIO  
 1925





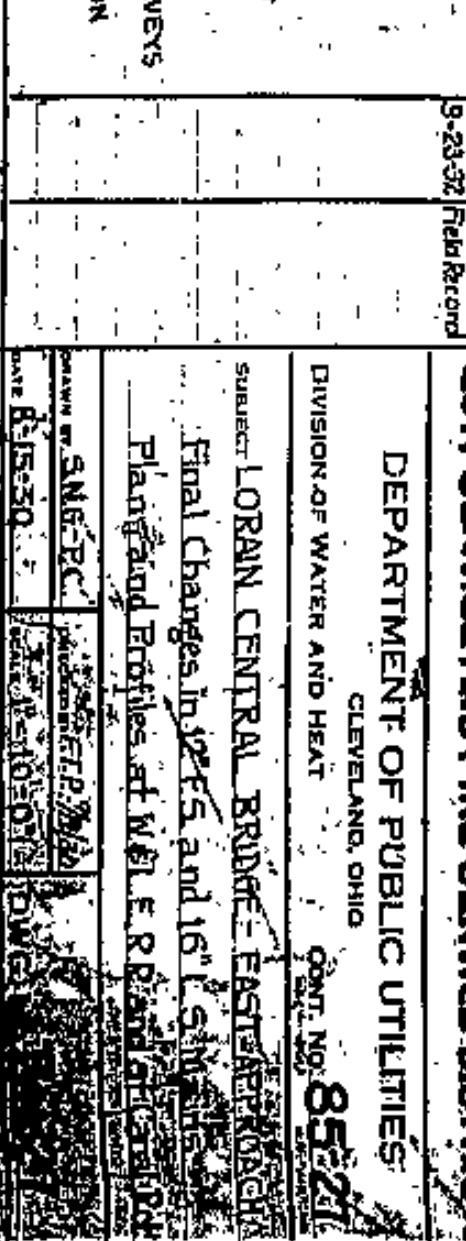
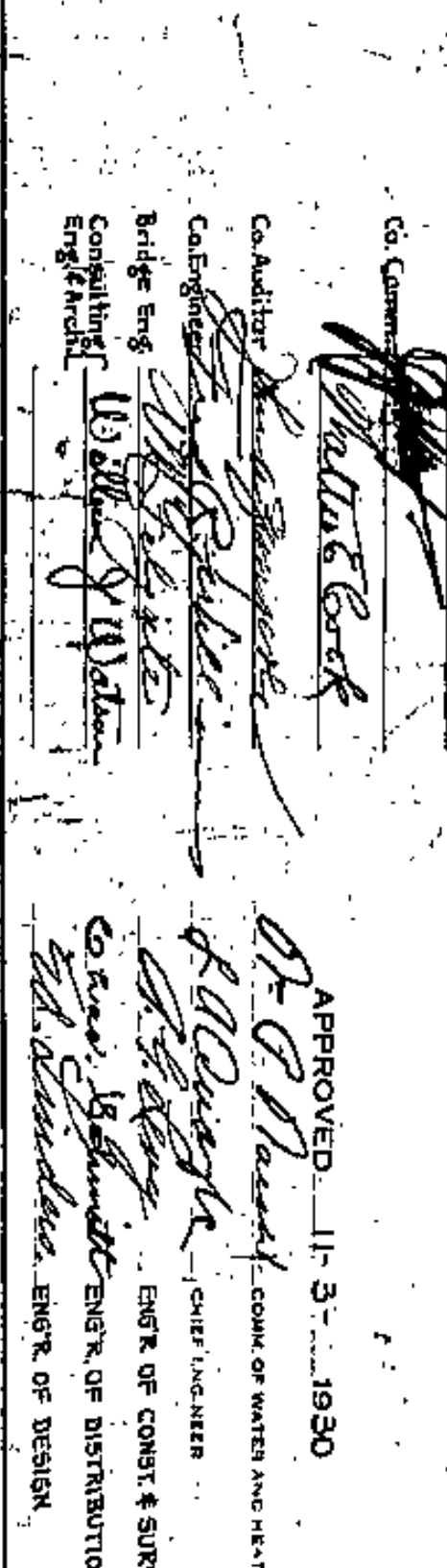
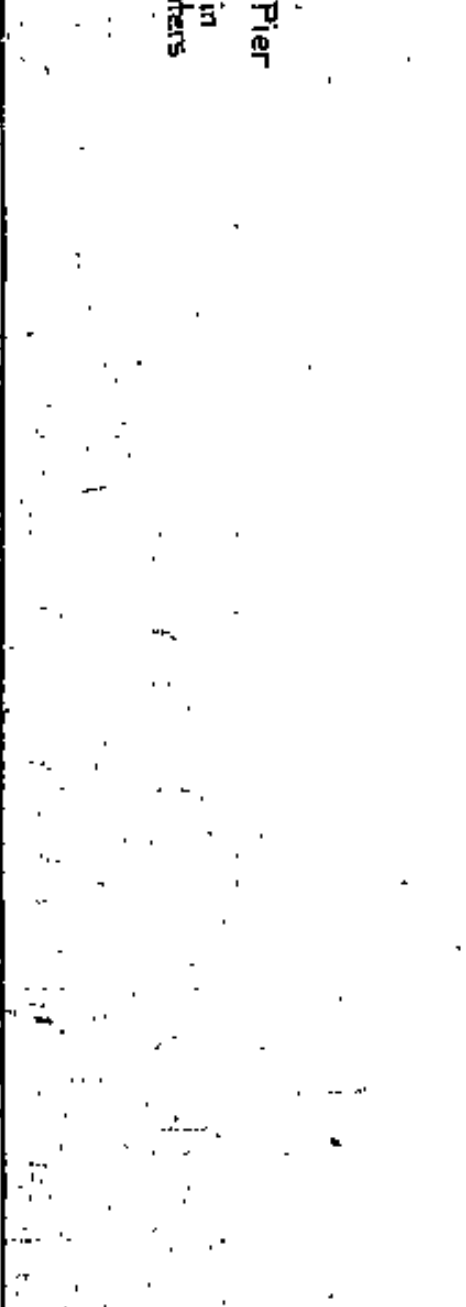
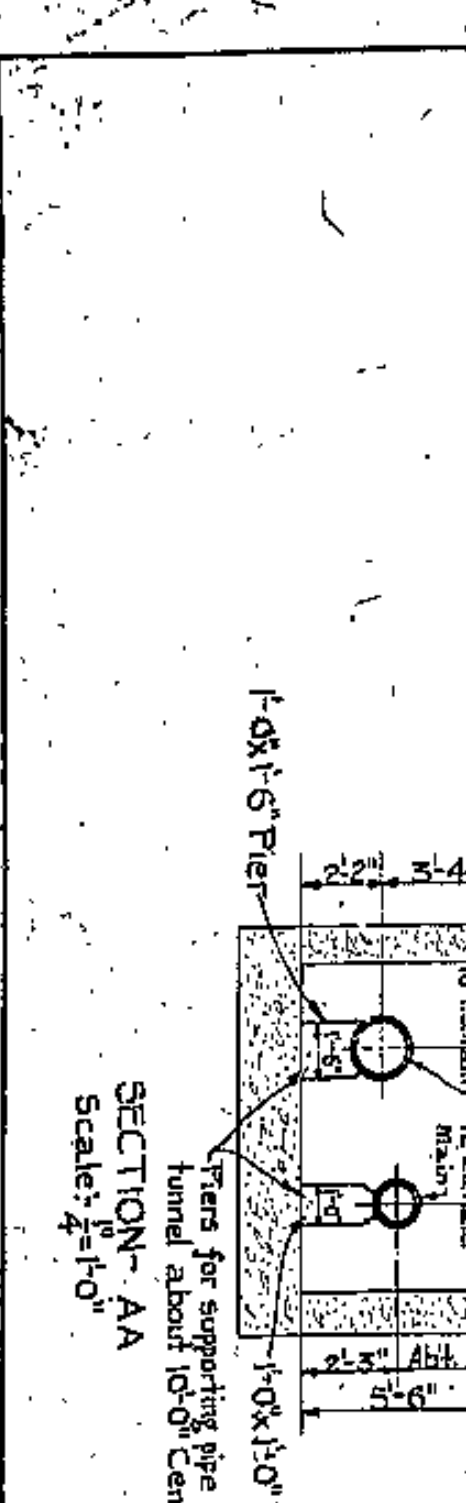
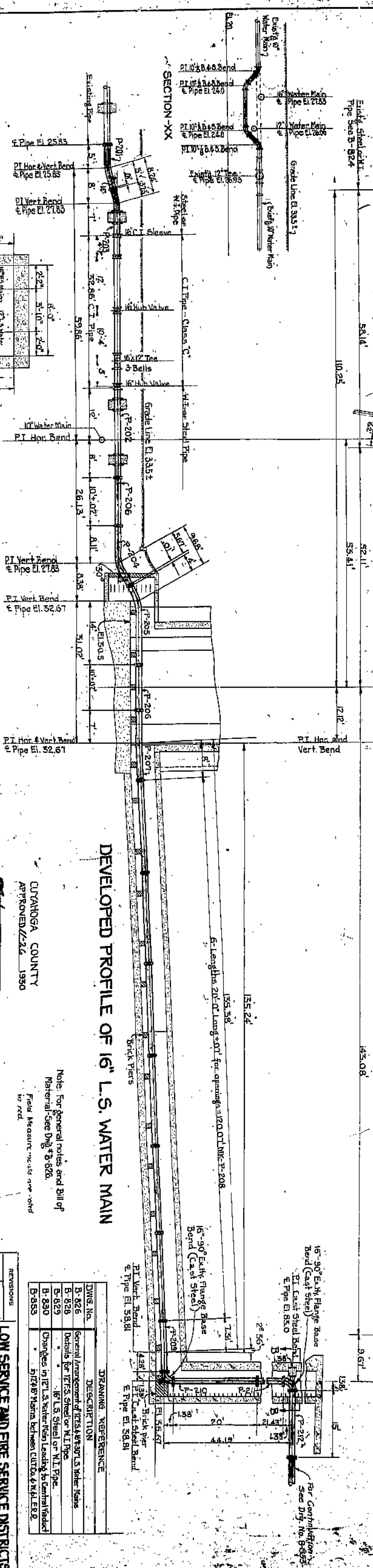
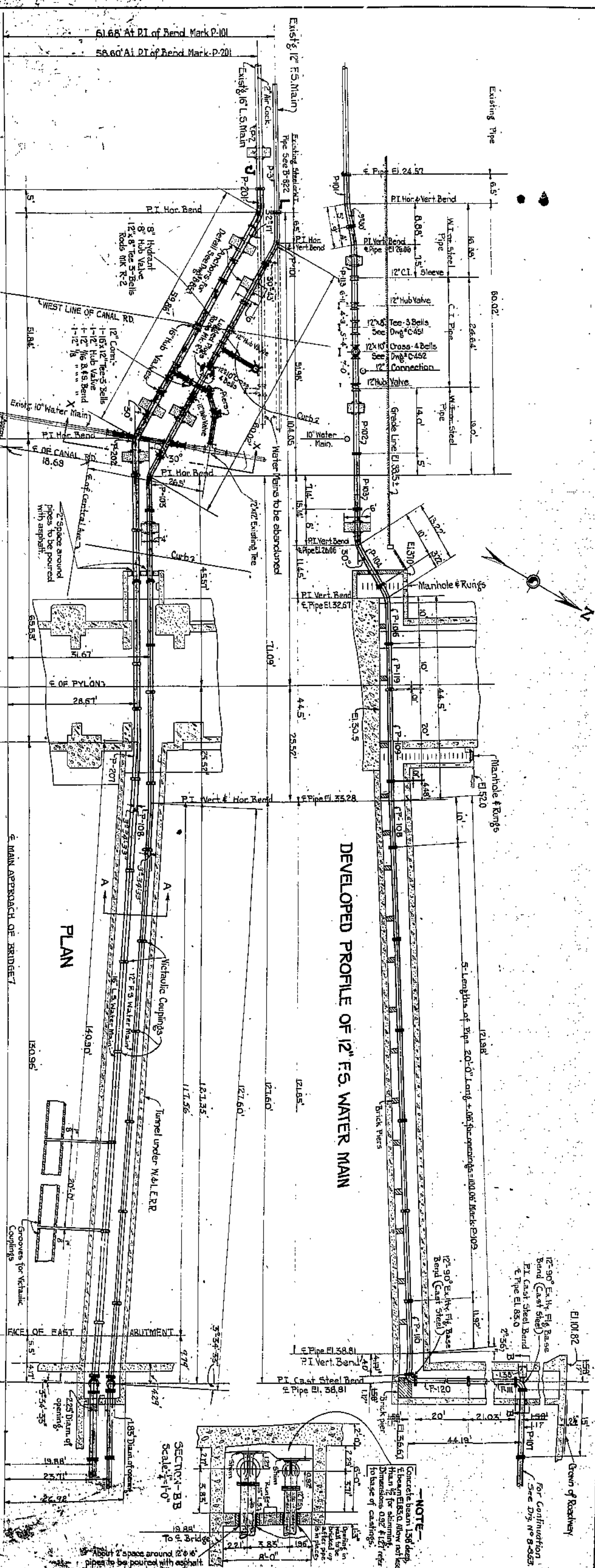












**DEVELOPED PROFILE OF 16" L.S. WATER MAIN**

APPROVED: 11-3-1930

LOW SERVICE AND FIRE SERVICE DISTRICTS

DEPARTMENT OF PUBLIC UTILITIES

CLERMONT, OHIO

85-21

**DEVELOPED PROFILE OF 12" F.S. WATER MAIN**

APPROVED: 11-3-1930

LOW SERVICE AND FIRE SERVICE DISTRICTS

DEPARTMENT OF PUBLIC UTILITIES

CLERMONT, OHIO

85-21

REVISIONS

DWG. NO.	DESCRIPTION
B-826	General Arrangement of 12" F.S. Water Mains
B-828	Details for 12" F.S. Steel or W.I. Pipe
B-829	16" L.S. Steel or W.I. Pipe
B-830	Changes in 12" L.S. Water Mains leading to Central Station
B-833	5/16" Mains between Curbs & W.I. E.R.R.

DRAWING REFERENCE

LOW SERVICE AND FIRE SERVICE DISTRICTS

DEPARTMENT OF PUBLIC UTILITIES

CLERMONT, OHIO

85-21

NOTE: For general notes and Bill of Material - See DWG. B-826.

Field Measurements are noted in red.

APPROVED: 11-3-1930

LOW SERVICE AND FIRE SERVICE DISTRICTS

DEPARTMENT OF PUBLIC UTILITIES

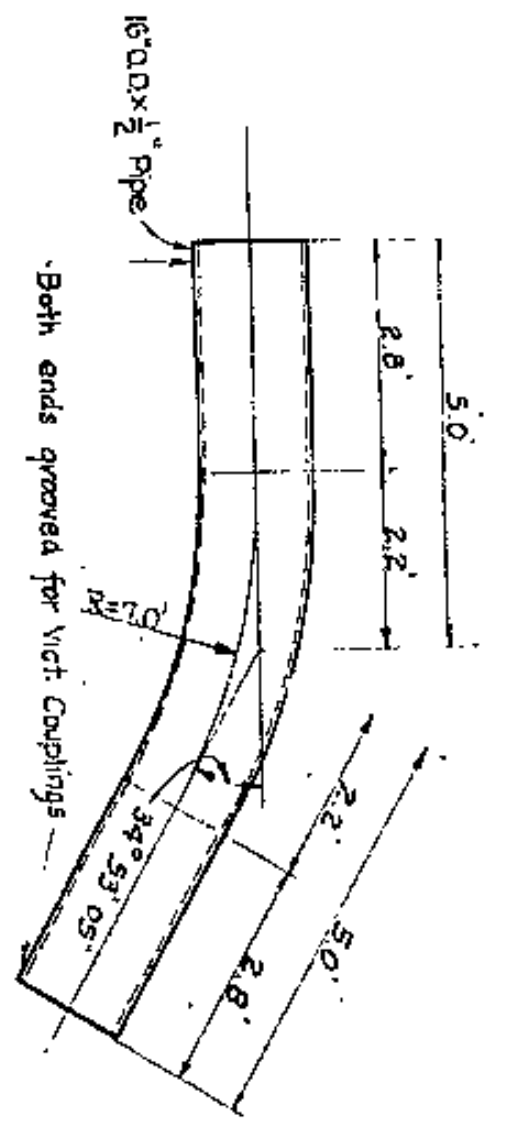
CLERMONT, OHIO

85-21

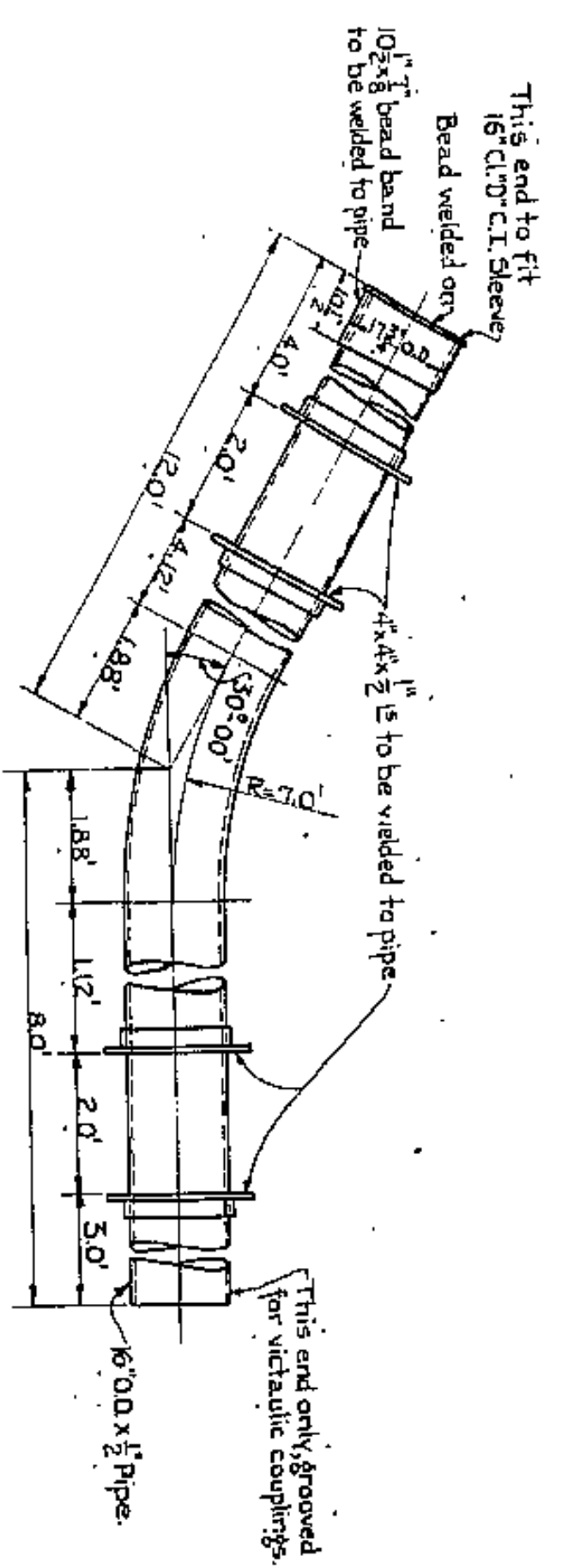




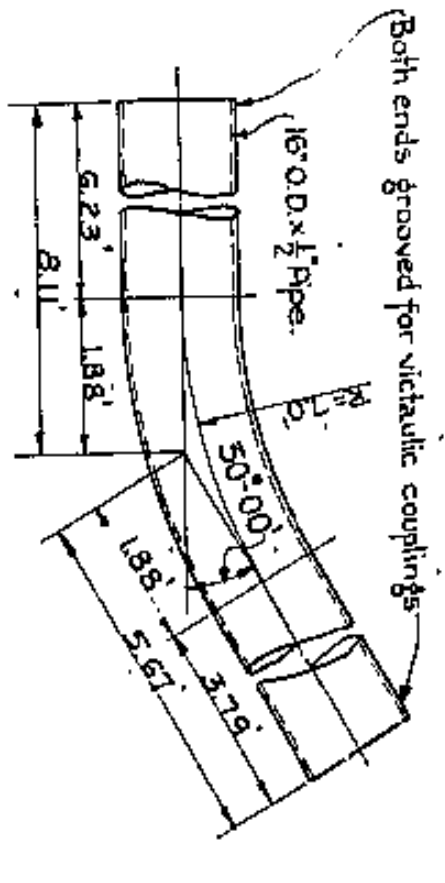




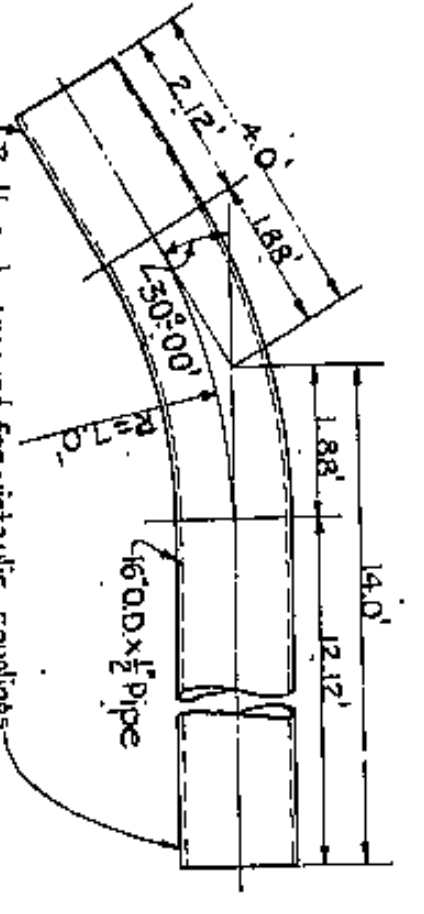
BEND MARK P-201 1-REOD.



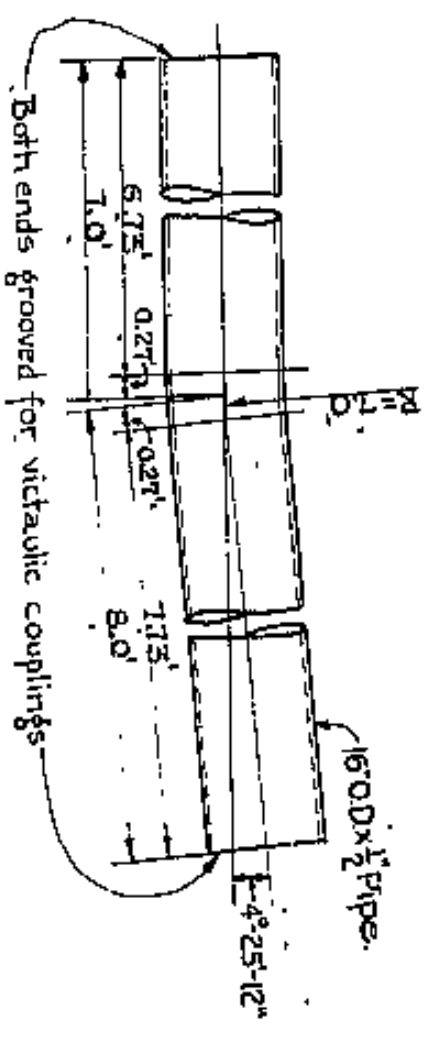
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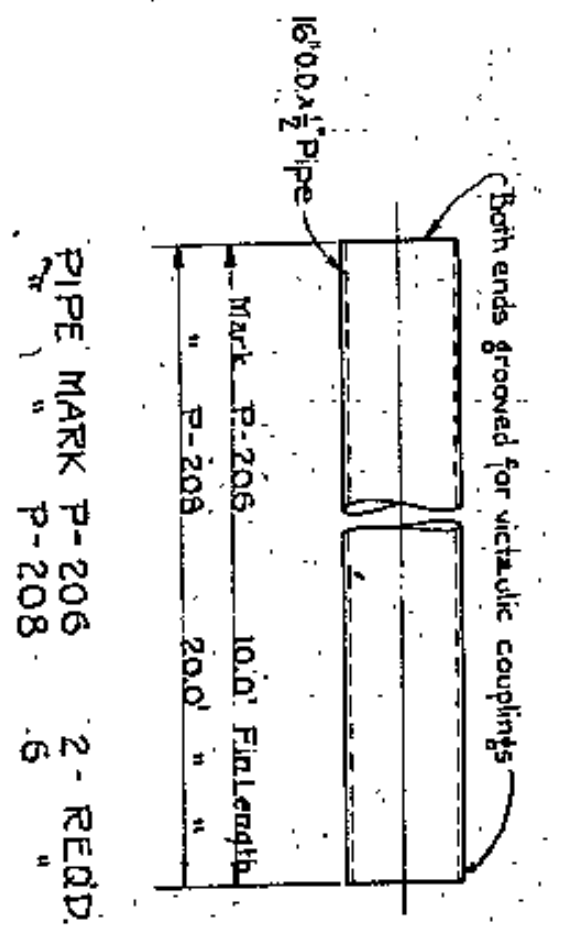
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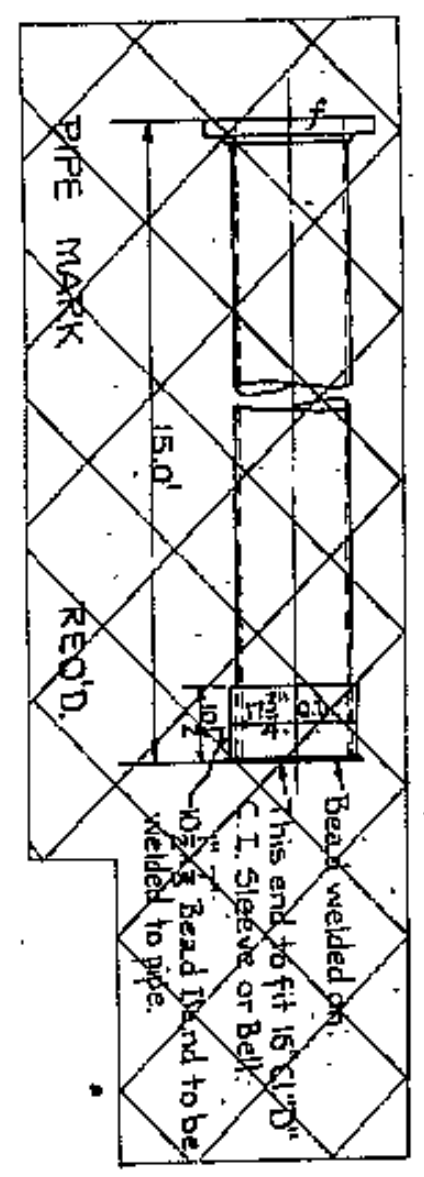
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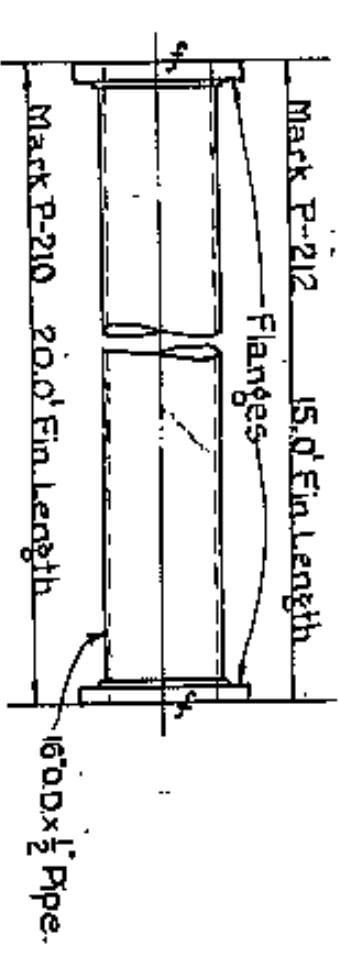
BEND MARK P-207 1-REOD.



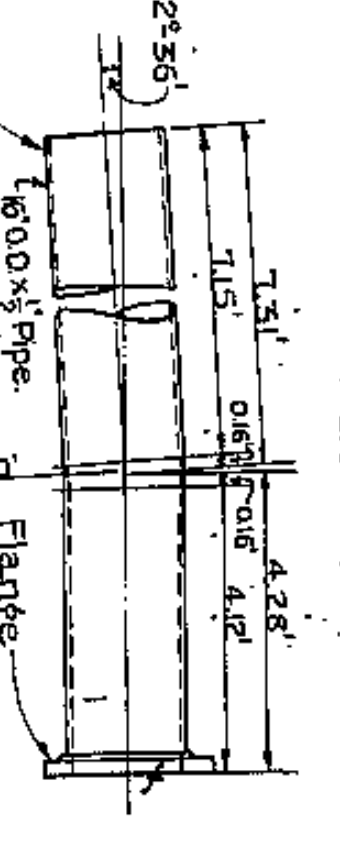
PIPE MARK P-206 2-REOD.



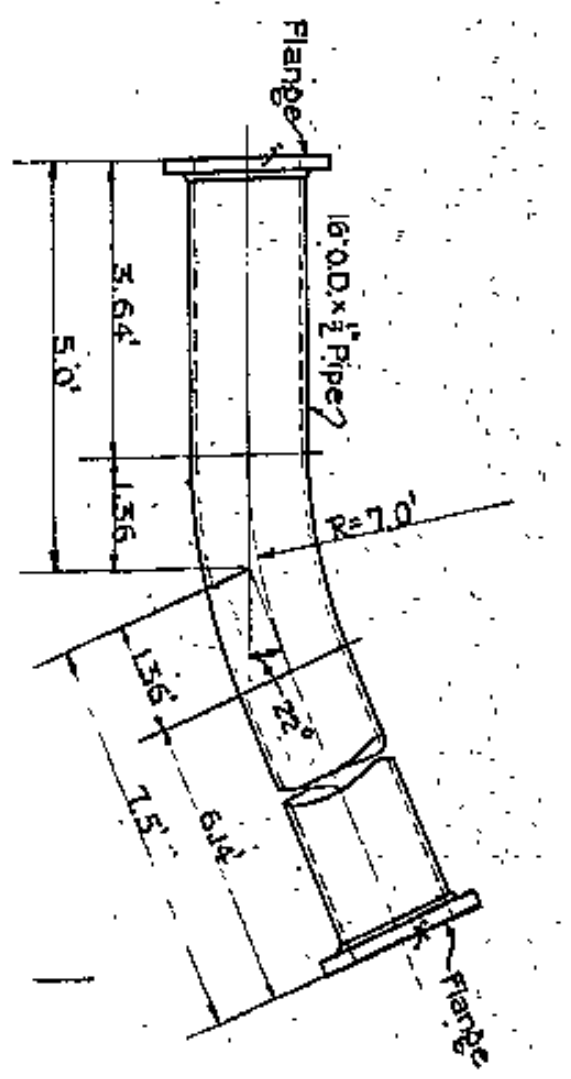
PIPE MARK P-212 1-REOD.



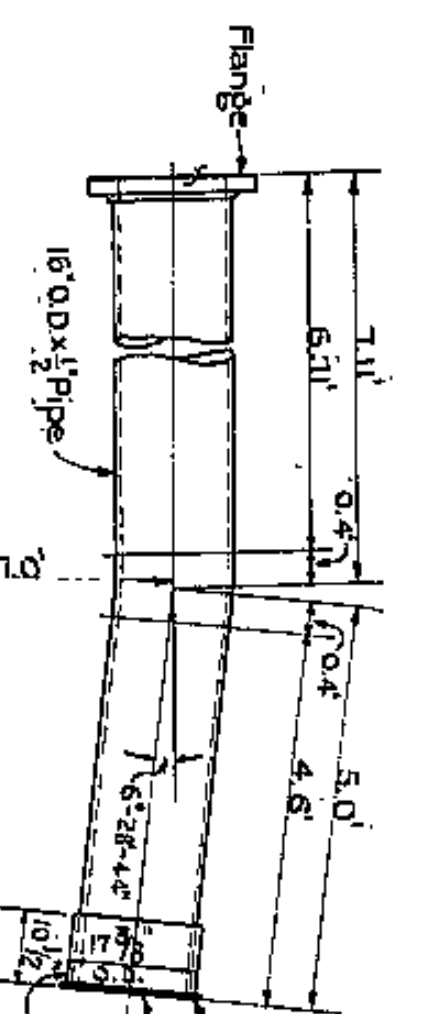
PIPE MARK P-210 1-REOD.



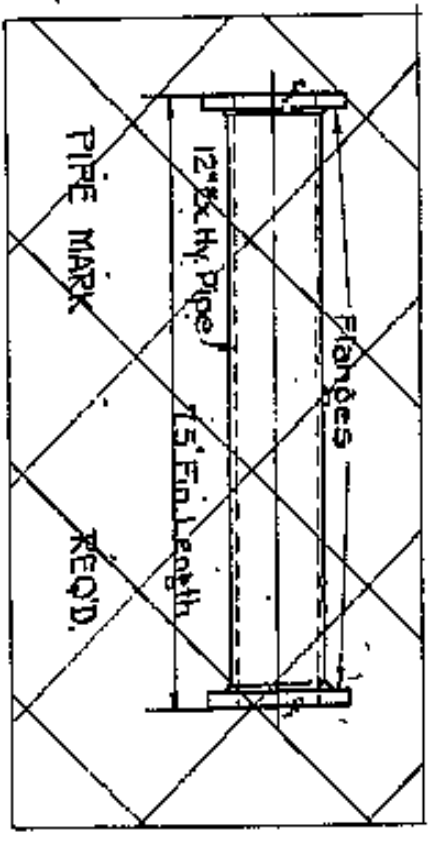
PIPE MARK P-209 1-REOD.



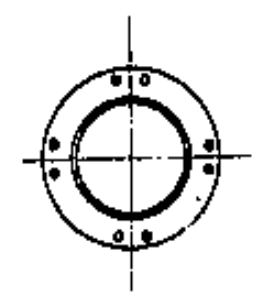
BEND MARK P-215 2-REOD.



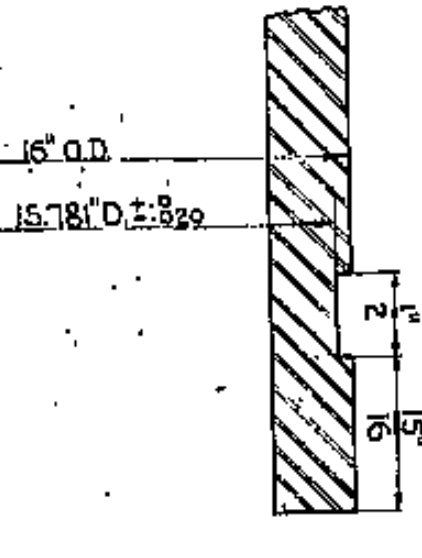
BEND MARK P-214 1-REOD.



PIPE MARK P-213 1-REOD.



PIPE MARK P-211 1-REOD.



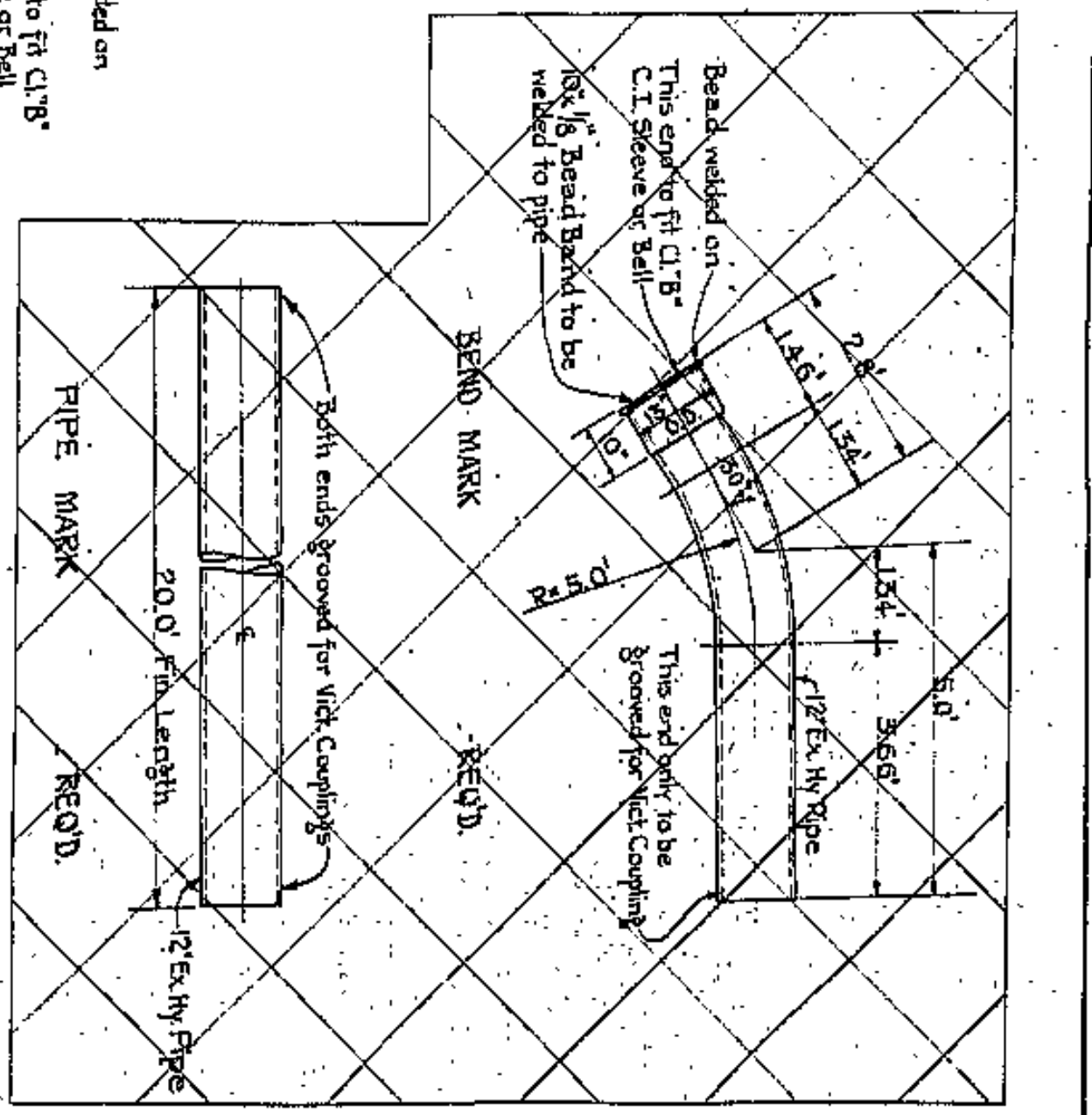
DETAIL OF GROOVE CUT AT END OF PIPE FOR VICTAULIC COUPLINGS

Note:-  
Both holes in flanges must be placed so as to straddle the horizontal and vertical axis of bends.  
Both holes in pipe Mark P-211 to be drilled as shown.

CUYAHOGA COUNTY  
APPROVED 1/26 1930

Ca. Comm. *Walter E. Cook*  
Ca. Auditor *Walter E. Cook*  
Ca. Engineer *Walter E. Cook*  
Bridge Eng. *Walter E. Cook*  
Consulting Eng. & Arch. *Walter E. Cook*

APPROVED 11-3-1930  
Ca. Comm. *Walter E. Cook*  
Ca. Auditor *Walter E. Cook*  
Ca. Engineer *Walter E. Cook*  
Bridge Eng. *Walter E. Cook*  
Consulting Eng. & Arch. *Walter E. Cook*



BEND MARK P-203 1-REOD.

**DATA FOR PIPE AND FLANGES**

All pipe to be extra heavy steel or wrought iron and to be galvanized after grooves for victaulic couplings have been cut.  
All flanges to be extra heavy galv. forged steel and to be drilled in accordance with the American 1914 Standard with the following dimensions:-

Spec. d. Pipe O.D.	B.C.	Flange O.D.	Flange I.D.	Flange Thickness	Flange Bolt Dia.	Flange Bolt Spacing
16"	25.5"	22.5"	20"	1 1/2" Dia.	1 1/2" Dia.	1 1/2" Dia.

All bolts to have square heads and C.P. Semi-fm. Hex Nuts.  
**GASKETS**  
1-6 Manila rope paper gasket to be furnished with each flange joint.

**VICTAULIC COUPLINGS**

1-6 Victaulic Couplings Complete, 8 Type 150" sq. in. for 16" Steel or W.I. Pipe. Victaulic Couplings are to be painted with two coats of approved paint after they are installed.

DWG. No.	DESCRIPTION
B-826	General Arrangement of 1275 & 16" U.S. Water Mains
B-827	Plans & Profiles at W.A.L.E. & R. and at Canal Rd.
B-828	Changes in 1275 & 16" U.S. Water Mains between W.A.L.E. & R. and at Canal Rd.

**LOW SERVICE DISTRICT**

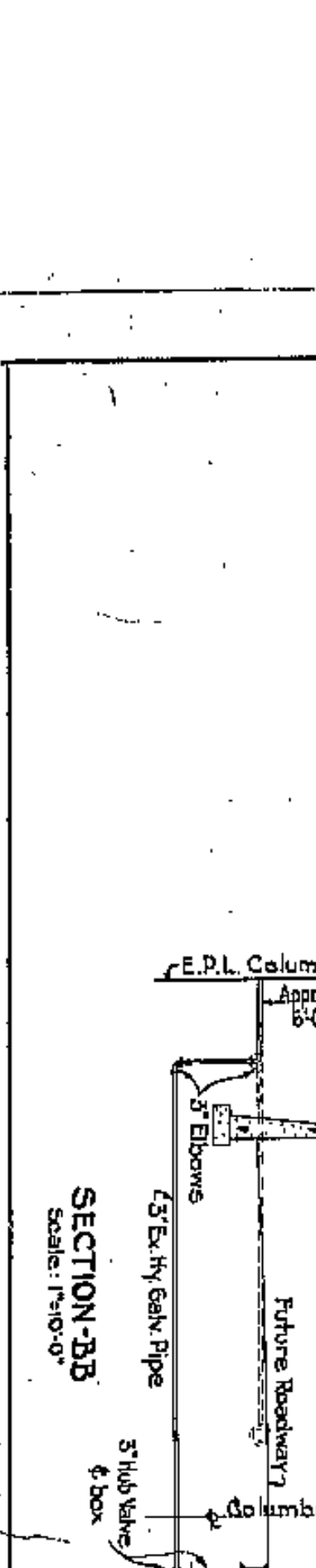
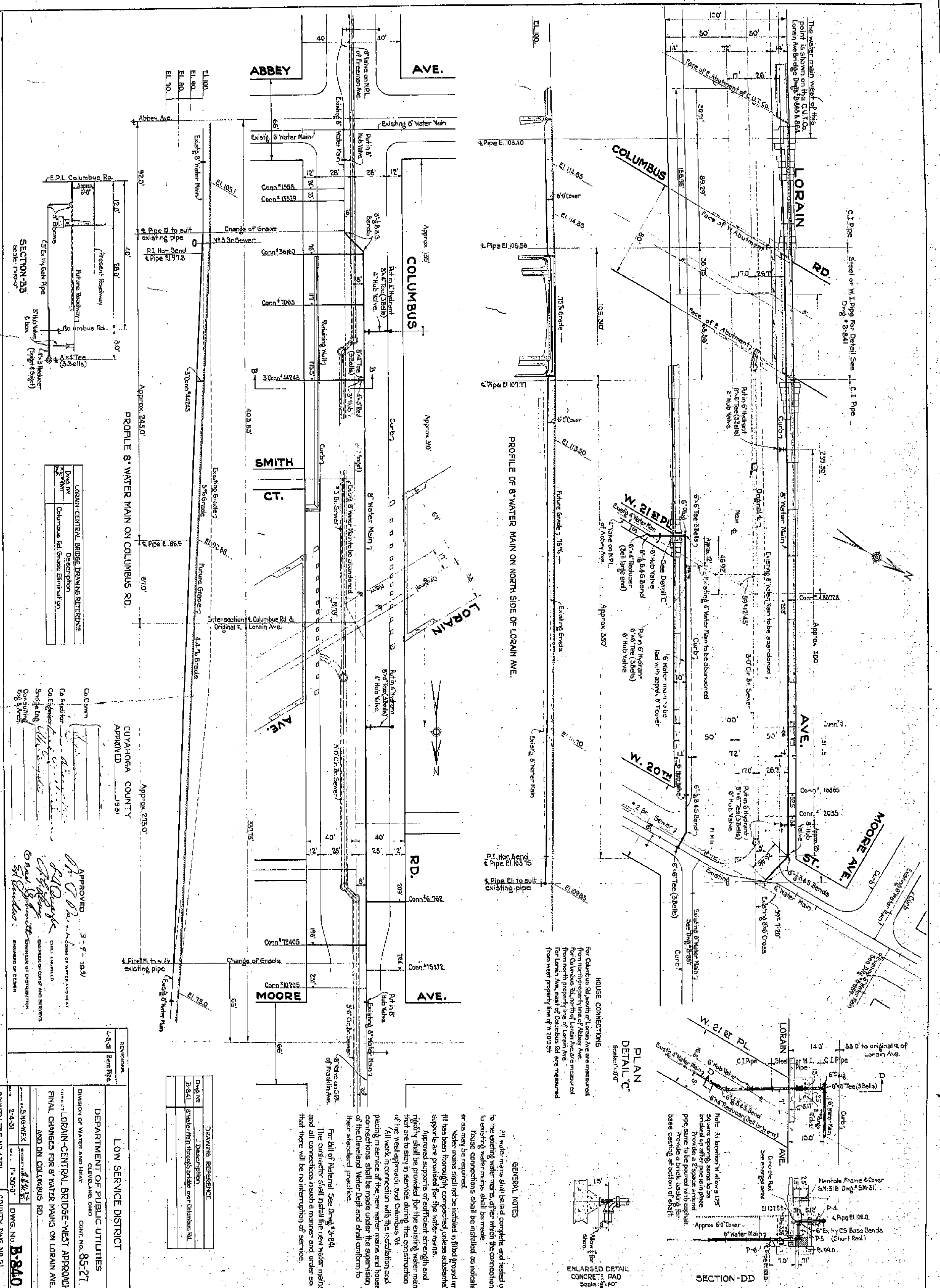
DEPARTMENT OF PUBLIC UTILITIES  
CLEVELAND, OHIO  
DIVISION OF WATER AND HEAT  
CONTR. NO. **85-27**  
SUBJECT: **LORAIN-CENTRAL BRIDGE - EAST APPROACH**  
Final Charges in 16" U.S. Water Mains  
Details for Steel or W.I. Pipe

DATE: 8-20-30  
DWG. NO. **B-829**  
COUNTY FILE NO. 5524  
COUNTY DISTRICT









SECTION-BB  
Scale: 1"=0'0"

Dwg. No.	Description
B-841	LORAIN-CENTRAL BRIDGE DRAWING REFERENCE
B-842	Columbus Rd. Grade Elimination

APPROVED 3-9-1931

FOR THE ENGINEER

FOR THE CONTRACTOR

REVISIONS

No.	Date	Description
1-6-31		Revised

DEPARTMENT OF PUBLIC UTILITIES  
CLEVELAND, OHIO  
CONTR. NO. 85-27  
SUBJECT: LORAIN-CENTRAL BRIDGE WEST APPROACH  
FINAL CHANGES FOR 8" WATER MAINS ON LORAIN AVE.  
AND ON COLUMBUS RD.

DWG. NO. B-840

COUNTY FILE NO. 4371

COUNTY DWG. NO. 21

**GENERAL NOTES**

All water mains shall be laid complete and tested up to the existing water mains, after which the connections to existing water mains shall be made. House connections shall be installed as indicated or as may be required.

Water mains shall not be installed in filled ground until fill has been thoroughly compacted unless substantial supports are provided for the water mains.

Approved supports of sufficient strength and rigidity shall be provided for the existing water mains that are to stay in service during the construction of the new approach and Columbus Rd.

All work in connection with the installation and placing in service of the new water mains and house connections shall be made under the supervision of the Cleveland Water Dept. and shall conform to their standard practice.

For Bill of Material See Dwg. #3-841

The contractor shall install the new water mains and all connections in such a manner and order so that there will be no interruption of service.

**HOUSE CONNECTIONS**

For Columbus Rd. south of Lorain Ave. are measured from north property line of Abbey Ave. For Columbus Rd. north of Lorain Ave. are measured from south property line of Lorain Ave. For Lorain Ave. east of Columbus Rd. are measured from west property line of W. 20th St.

**ENLARGED DETAIL CONCRETE PAD**  
Scale: 1"=0'0"

**SECTION-DD**  
Scale: 1"=0'0"



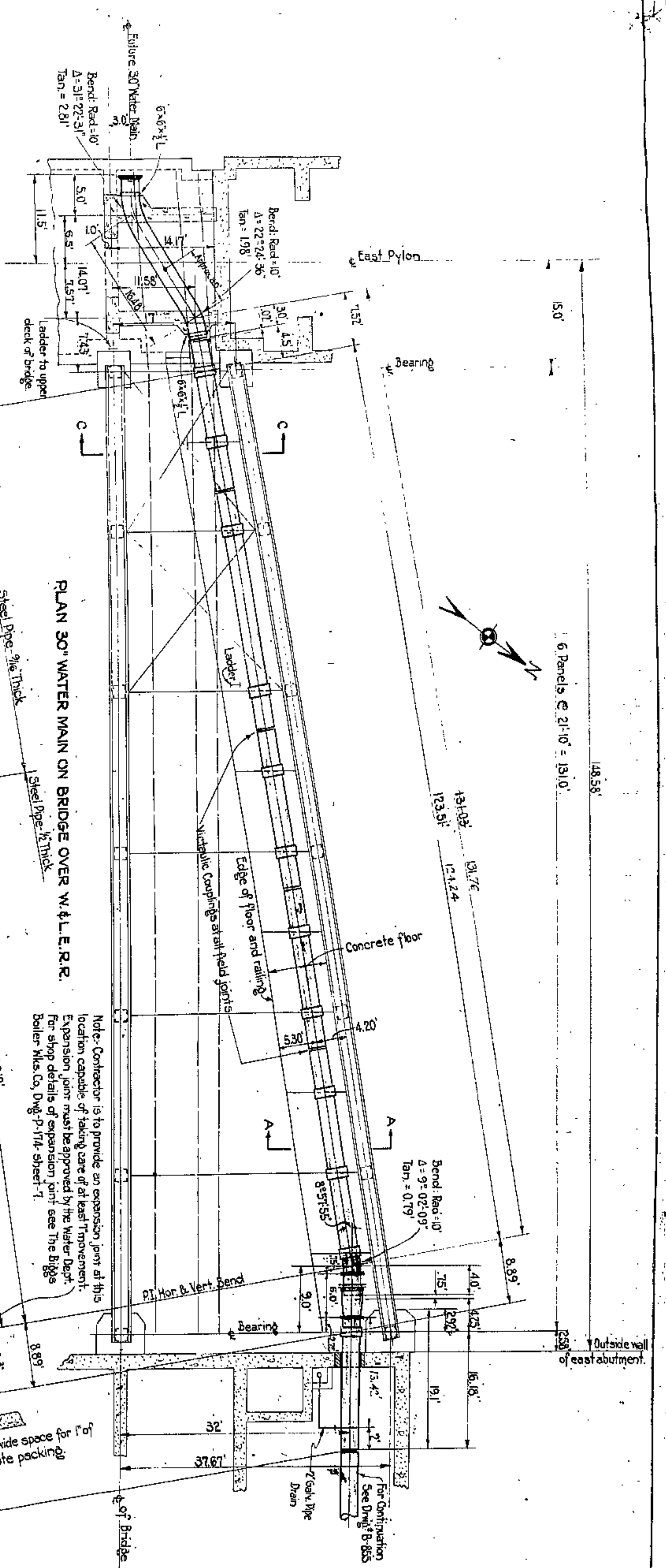






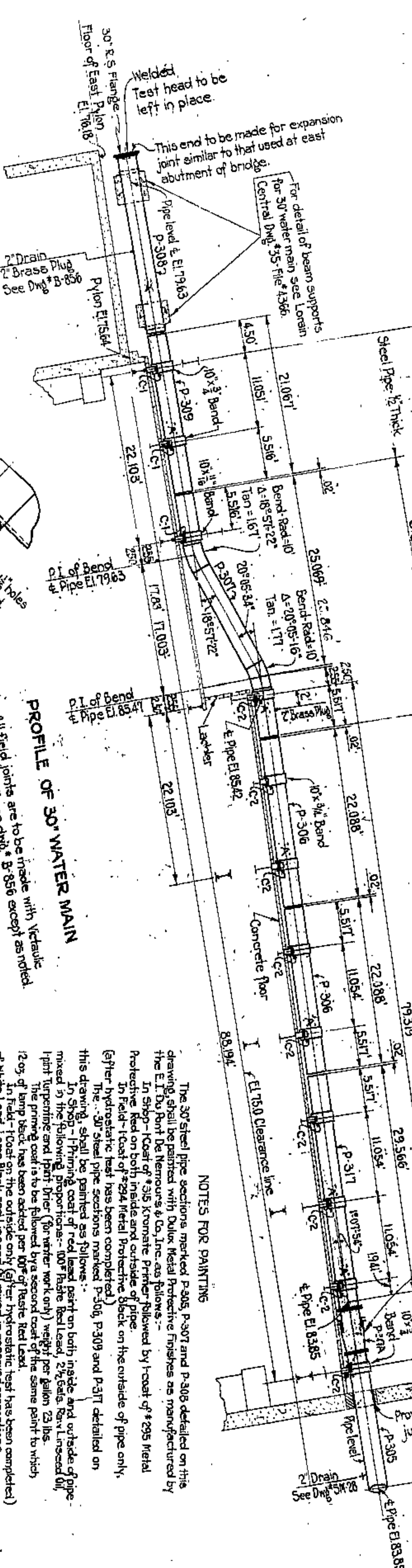


148.58'  
6 Panels @ 24'10" = 148'10"



PLAN 30" WATER MAIN ON BRIDGE OVER W. & L. E. R. R.

Note: Contractor is to provide an expansion joint at this location capable of taking care of at least 1" movement. Expansion joint must be approved by the Water Dept. For shop details of expansion joint see The Biggs Boiler Works Co. Dwg. P-174-Sheet-7.



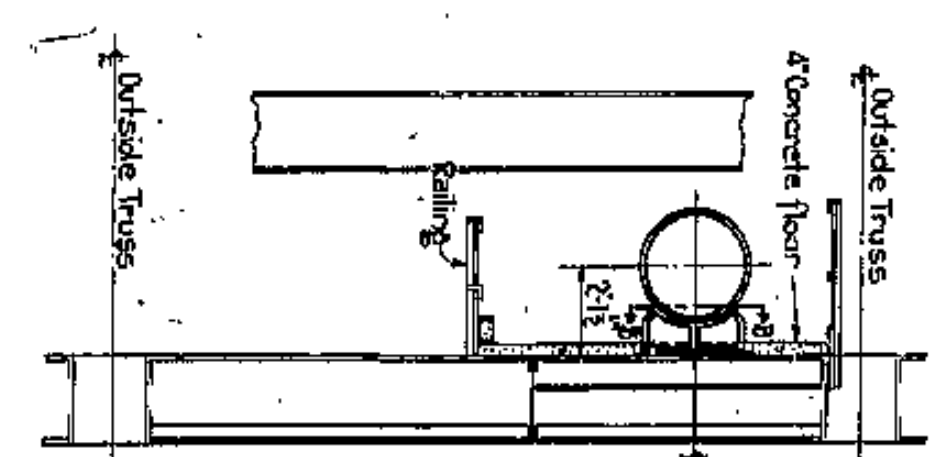
PROFILE OF 30" WATER MAIN

Note: All field joints are to be made with vertical couplings for details see dng. B-856 except as noted.

NOTES FOR PAINTING

The 30" steel pipe sections marked P-305, P-307 and P-308 detailed on this drawing shall be painted with Oxalic Metal Protective finishes as manufactured by The E. I. du Pont de Nemours & Co. Inc. as follows:  
 In Shop - Coat of "305 Protective Primer followed by 1" coat of "295 Metal Protective Red on both inside and outside of pipe.  
 In Field - Coat of "294 Metal Protective Black on the outside of pipe only.  
 (After hydraulic test has been completed)  
 This drawing shall be painted as follows:  
 In Shop - Priming coat of red lead paint on both inside and outside of pipe.  
 In Field - Priming coat of red lead paint, 2 1/2 coats, on 1" outside oil, (after hydraulic test has been completed) weight per gallon 12 lbs.  
 In Shop - Priming coat of red lead paint on both inside and outside of pipe.  
 In Field - Priming coat of red lead paint, 2 1/2 coats, on 1" outside oil, (after hydraulic test has been completed) weight per gallon 12 lbs.  
 12 oz. of zinc dust has been added per 100 of red lead.  
 All rust scale, grease and dirt is to be removed from the pipe after testing in shop and before painting pipe.

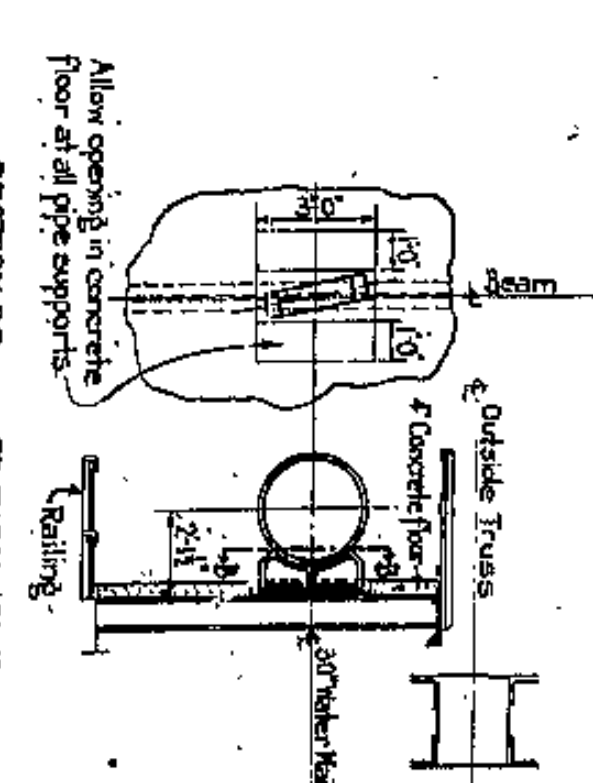
SECTION-CC



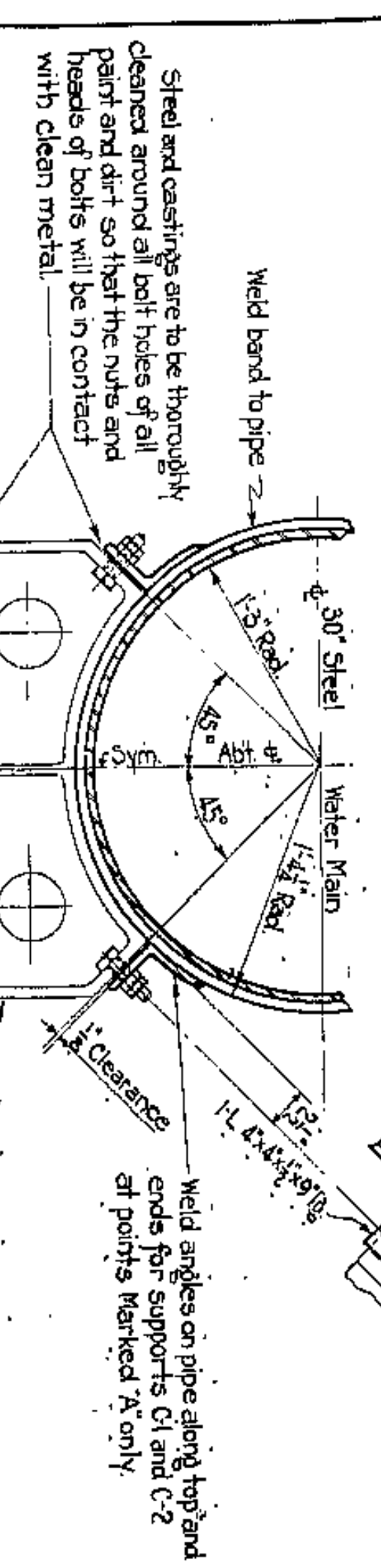
Note: For general notes and Bill of Material See Dwg. B-856. For details see Dwg. B-856. For complete shop details of steel pipe see The Biggs Boiler Works Co. Dwg. P-174-Sheets 1 to 18 inclusive.

Field Measurements are noted in red.

SECTION-BB



TYPICAL SECTION-AA



DETAIL OF ANGLES WELDED TO STEEL PIPE

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

CUYAHOGA COUNTY  
APPROVED: 11-26-1930

Co. Comm. *W. H. ...*  
Co. Auditor *W. H. ...*  
Co. Engineer *W. H. ...*  
Co. Surveyor *W. H. ...*

APPROVED: 11-3-1930

Co. Engineer *W. H. ...*  
Co. Surveyor *W. H. ...*

DWG. No.	DESCRIPTION
B-856	General Arrangement of 30" Water Main on Bridge
B-855	Changes 30" Water Main Vertical Bridge & RAIL EXC.
B-856	Details for 30" Water Main

LOW SERVICE DISTRICT

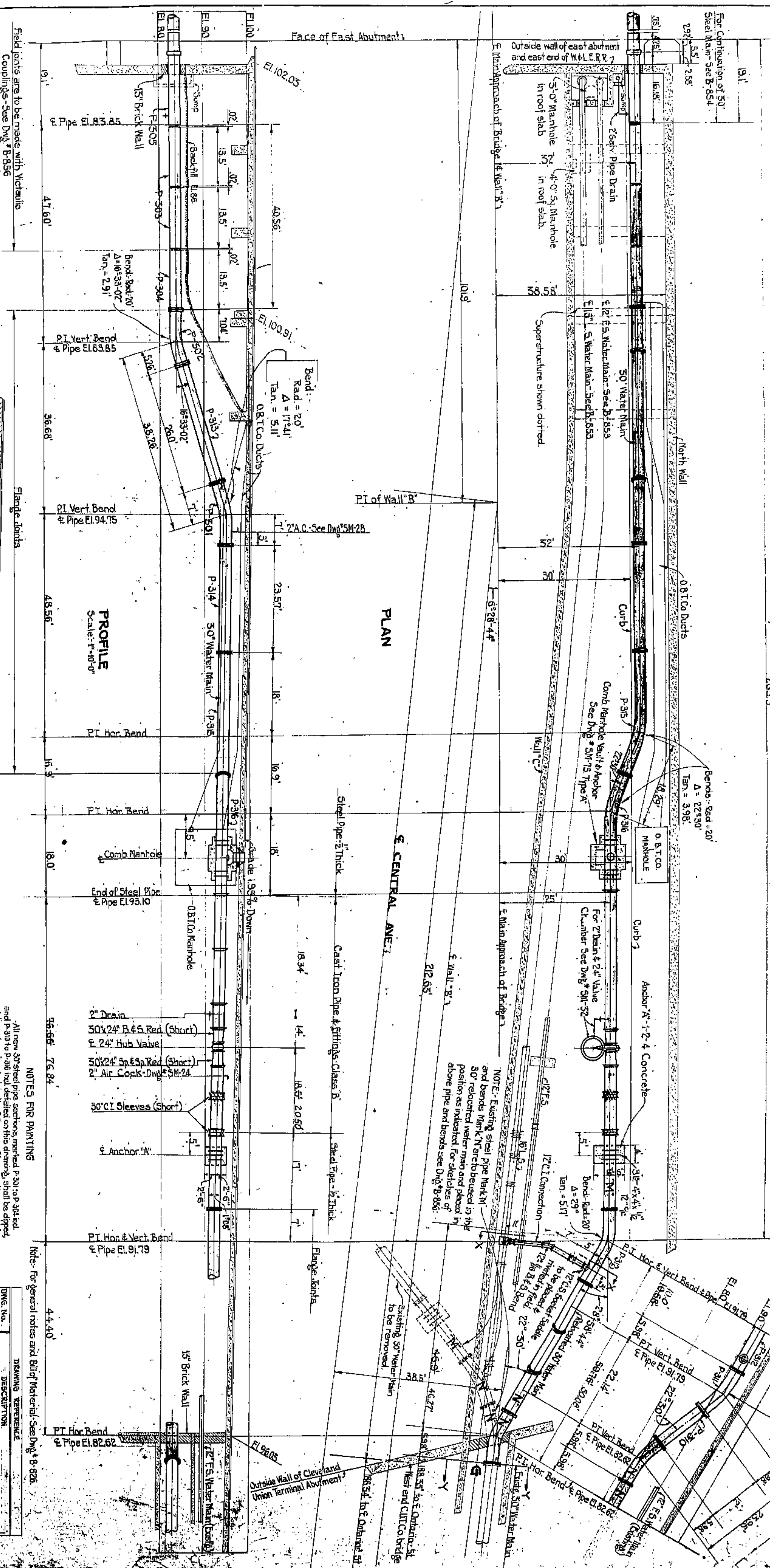
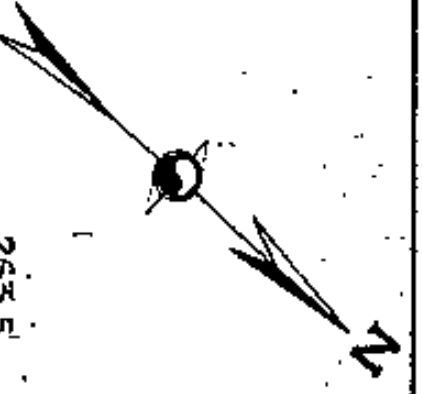
DEPARTMENT OF PUBLIC UTILITIES  
CLEVELAND, OHIO

DIVISION OF WATER AND HEAT

ENCL. ...

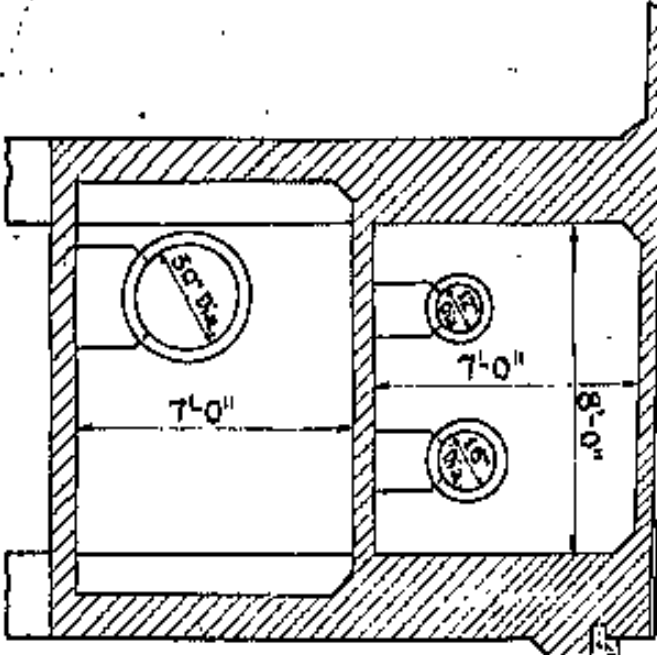
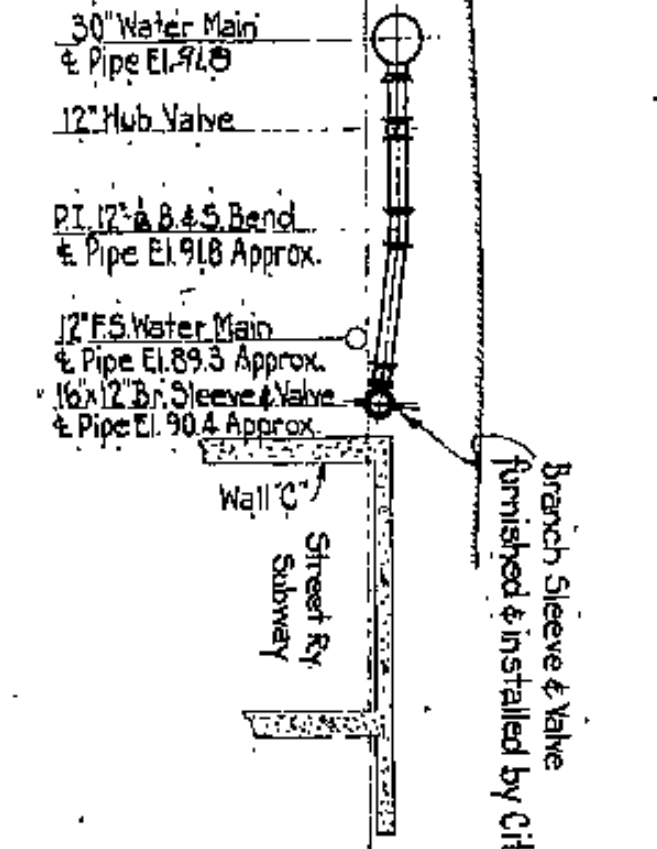
REVISIONS	DATE	BY	DESCRIPTION
12-18-30	12-18-30	...	...
1-17-31	1-17-31	...	...
5-22-31	5-22-31	...	...





SECTION - XX  
Scale: 1/4" = 1'-0"

SECTION - YY  
Scale: 1/4" = 1'-0"



PROFILE  
Scale: 1" = 40'-0"

PLAN

CENTRAL ANGLE

CUYAHOGA COUNTY  
APPROVED 11-26-1930

Field Measurements are indicated.

NOTES FOR PAINTING  
All new 30" steel pipe sections, marked P-301 to P-324 and P-326 to P-346 not detailed on this drawing, shall be dipped at the shop, in a hot bath of Oxycroton pipe coating or equal. See notes on drawing B-856 for painting specifications for existing 30" pipe sections marked 'N' and 'N'. All rust, scale, grease and dirt is to be removed from the pipe after testing in shop and before dipping pipe. All flanges shall be flanged or rolled steel flanges and shall conform to American Pipe Standard (same as shown for sections marked 'N' on drawing B-856).

DWG. No.	DESCRIPTION
B-856	General Arrangement of 12" E.S. & W.S. 30" Water Main
B-854	Final Bunches for 30" Water Main over M.A.L.E.R.R.
B-856	Details for 30" Water Main

LOW SERVICE DISTRICT

DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF WATER AND SEWERAGE

ENGINEER OF DESIGN

APPROVED 11-3-1930

ENGINEER OF DESIGN

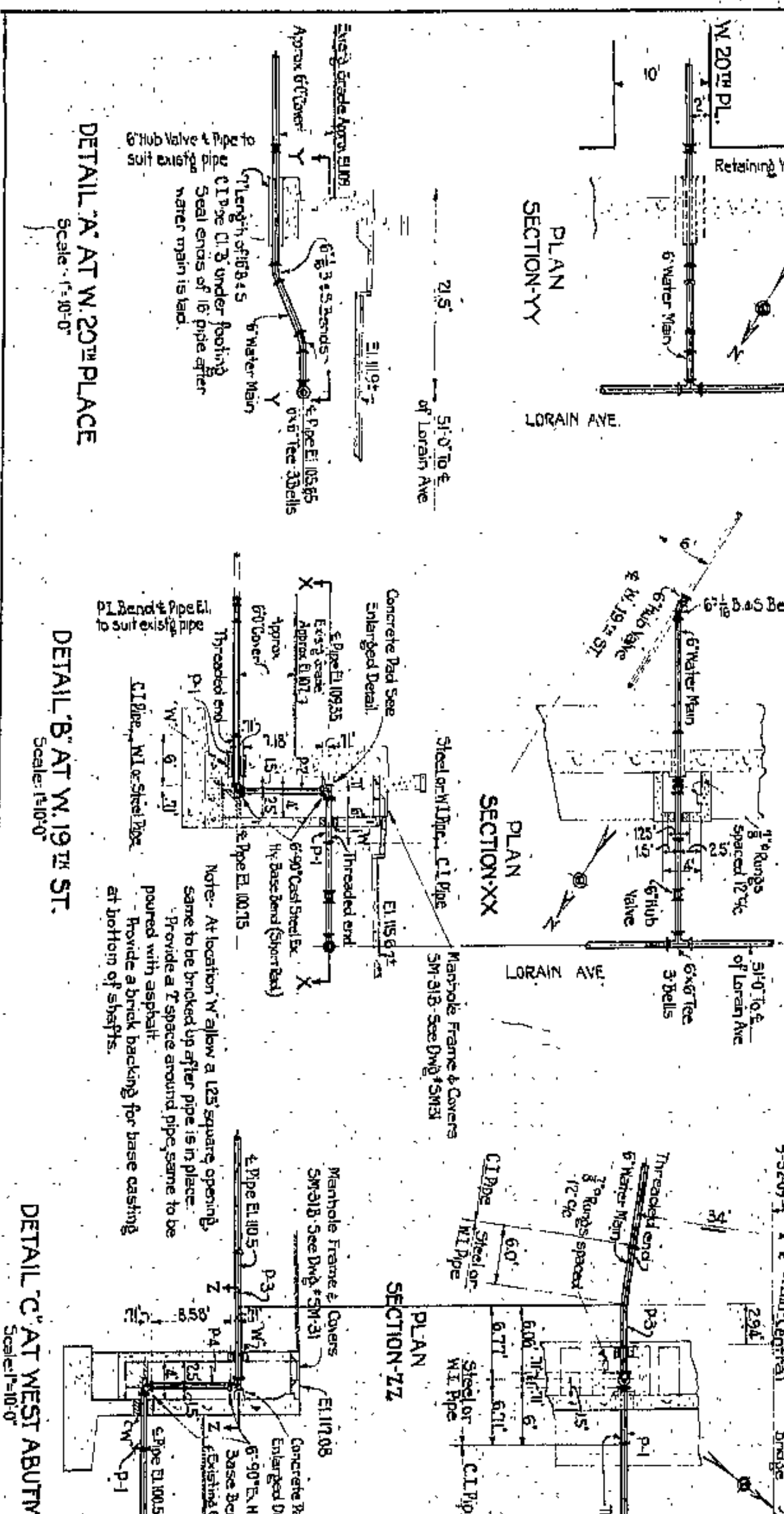
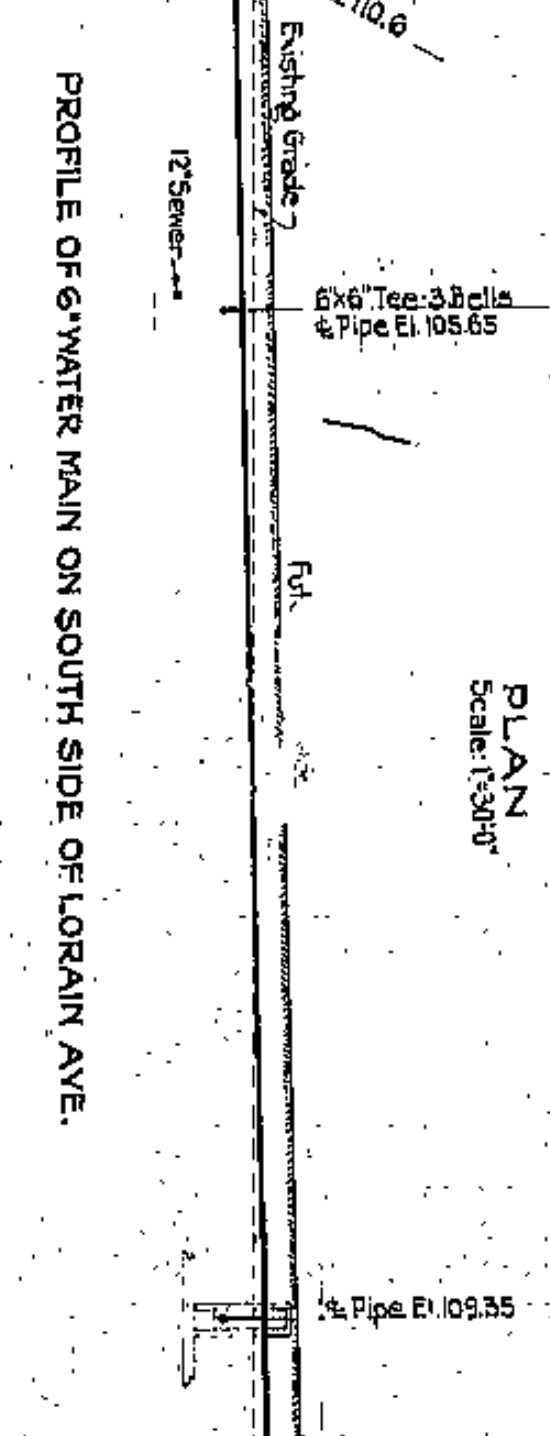
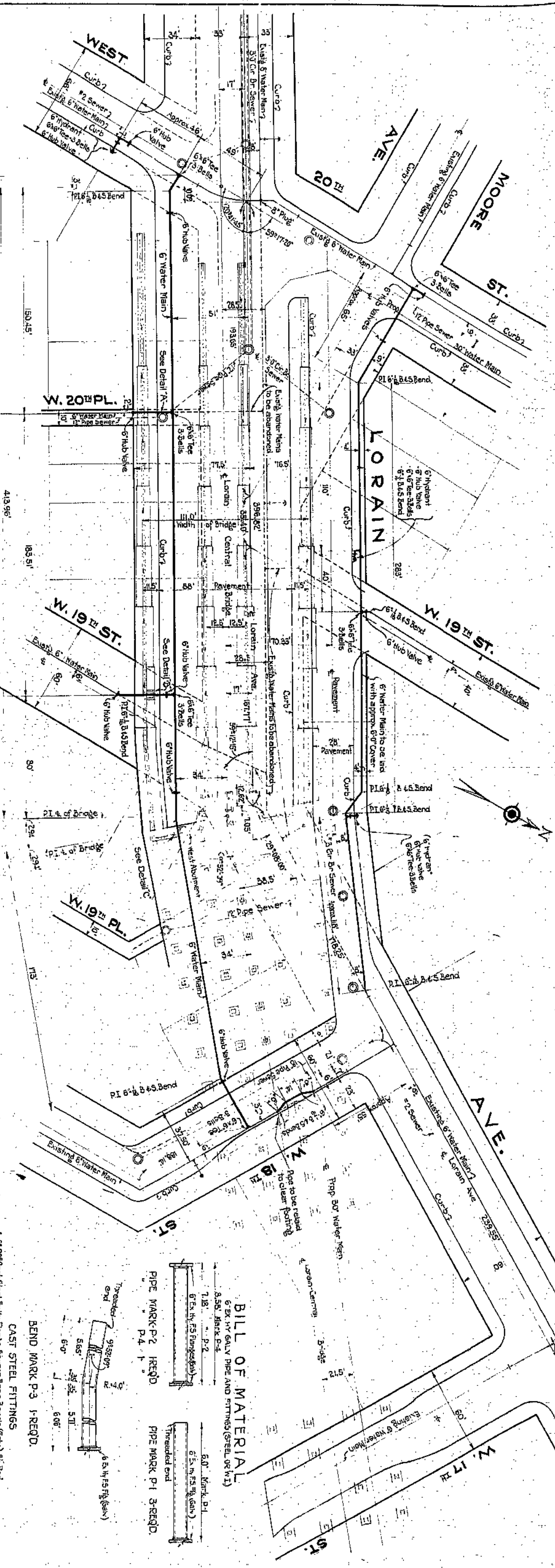
REVISIONS

NO.	DATE	DESCRIPTION
1	11-26-1930	Field Notes
2	11-26-1930	Field Notes
3	11-26-1930	Field Notes
4	11-26-1930	Field Notes
5	11-26-1930	Field Notes
6	11-26-1930	Field Notes
7	11-26-1930	Field Notes
8	11-26-1930	Field Notes
9	11-26-1930	Field Notes
10	11-26-1930	Field Notes







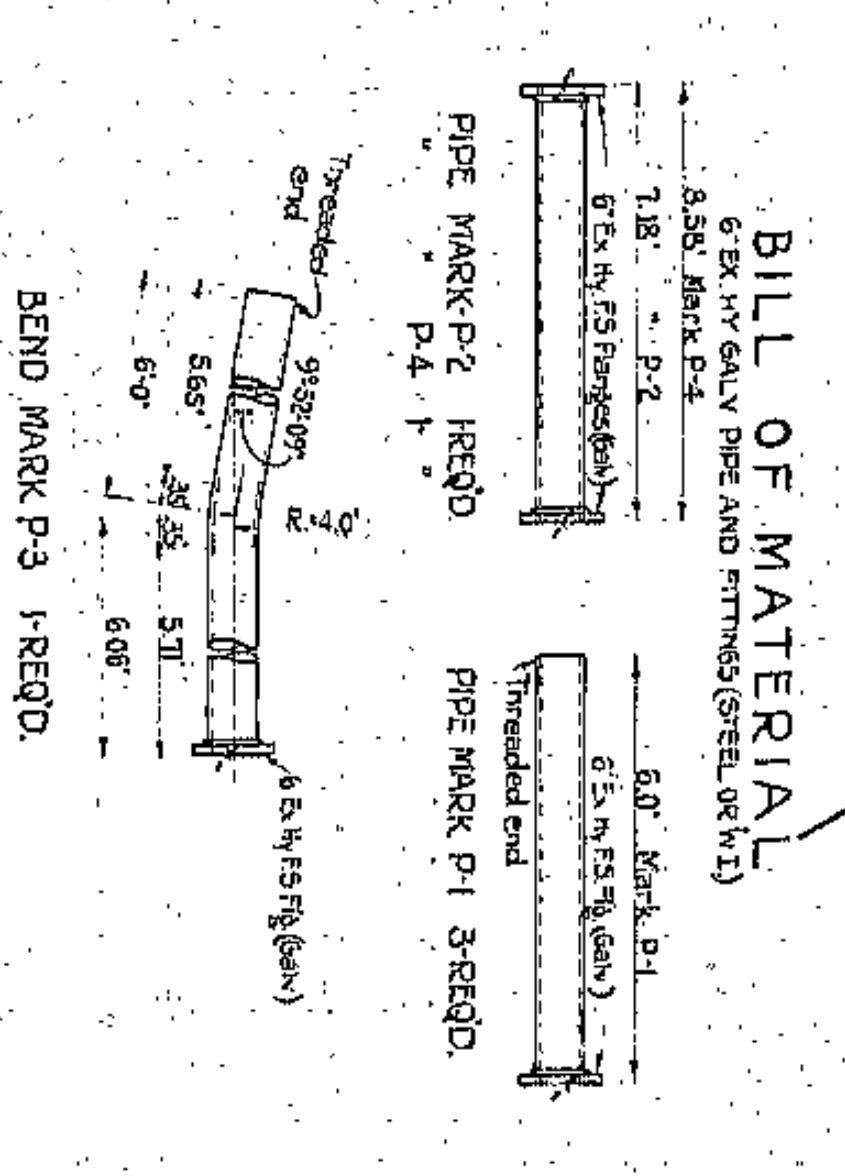
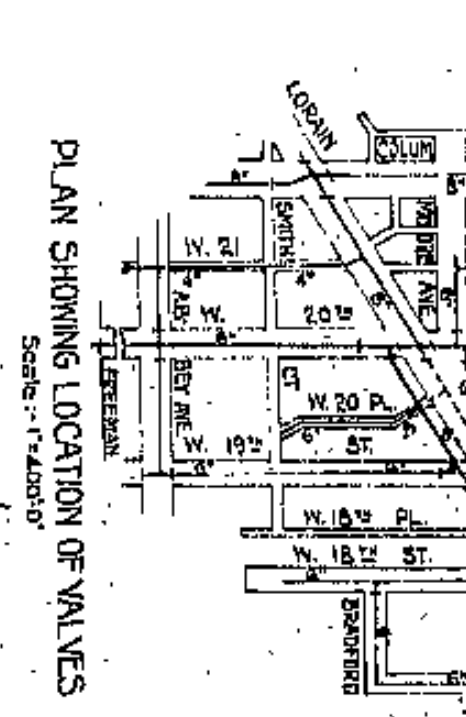


- BILL OF MATERIAL**  
 CAST IRON PIPE AND FITTINGS-ANKASTD-
- 1- 6\"/>
  - 2- 6\"/>
  - 1- 6\"/>
  - 9- 6\"/>
  - 1- 6\"/>
  - 3- Hydrants
  - 11- 50 PSI Valve Boxes Complete for 6\"/>
  - 3- #2

**CUYAHOGA COUNTY**  
 APPROVED 11-30

**APPROVED 11-21 1930**

Co. Comm. \_\_\_\_\_  
 Co. Auditor \_\_\_\_\_  
 Co. Engineer \_\_\_\_\_  
 Consulting Engineer \_\_\_\_\_



**GENERAL NOTES**

All water mains shall be laid complete and tested up to existing water mains, after which the connections to existing water mains shall be made. Whenever necessary, existing house connections shall be replaced. Water mains shall not be installed in filled ground until fill has been thoroughly compacted unless substantial supports are provided for the water mains.

Approved supports of sufficient strength and rigidity shall be provided for the existing water mains that are to stay in service during the construction of the new approach.

All work in connection with the installation and placing in service of the new water mains shall be made under the supervision of the Cleveland Water Dept. and shall conform to their standard practice.

1- 6\"/>

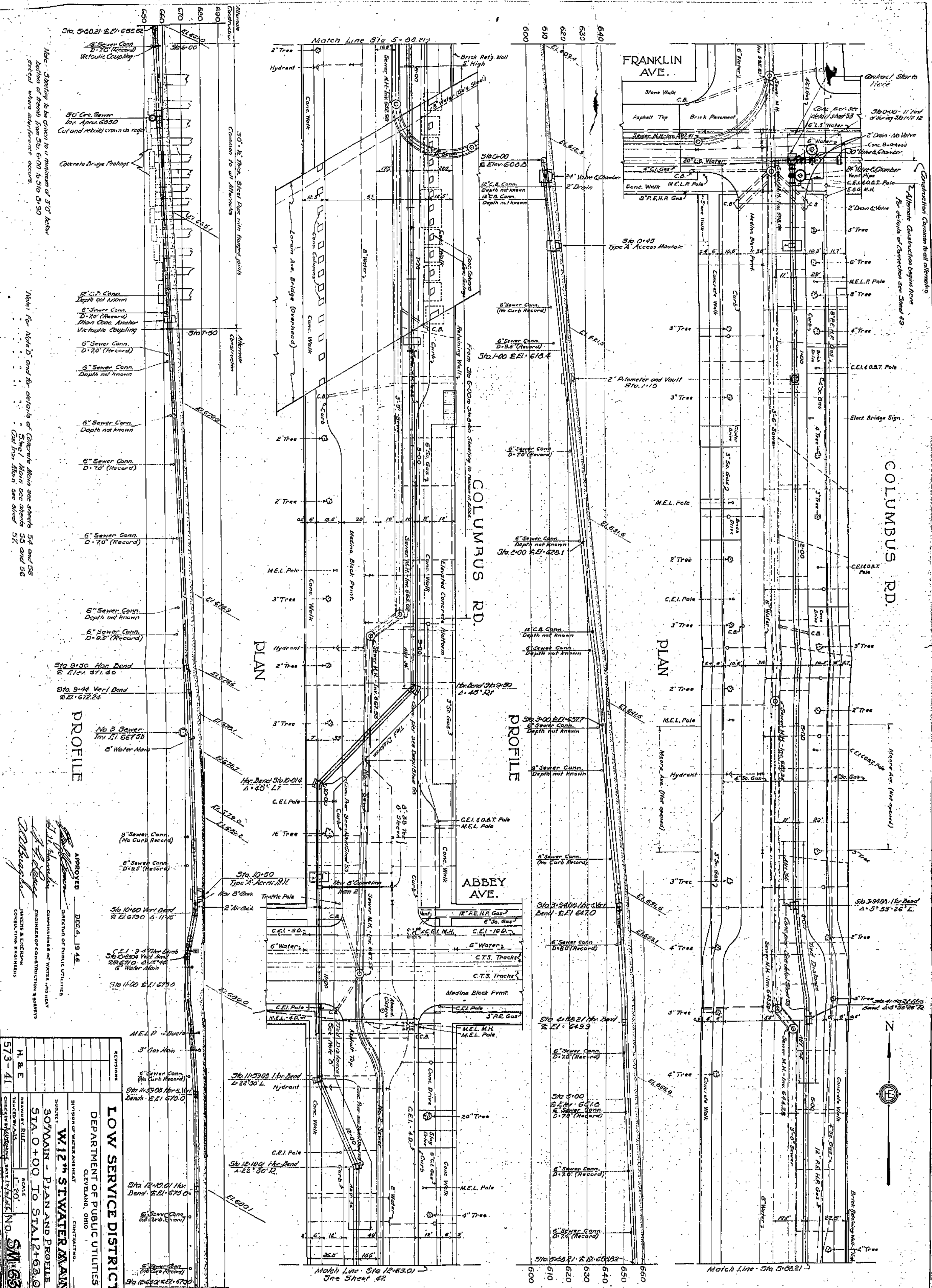
30 LITS AND GASKETS (See H.C.P. Section 114, Note 1 with each 6\"/>

**LOW SERVICE DISTRICT**

**DEPARTMENT OF PUBLIC UTILITIES**  
 CLEVELAND, OHIO  
 DIVISION OF WATER AND HEAT  
 FINAL CHANGES IN 6\"/>

11-13-30





Note: - Stationing to be shown for a minimum of 30' below location of main from Sta. 600 to Sta. 630 sections where manholes occur.

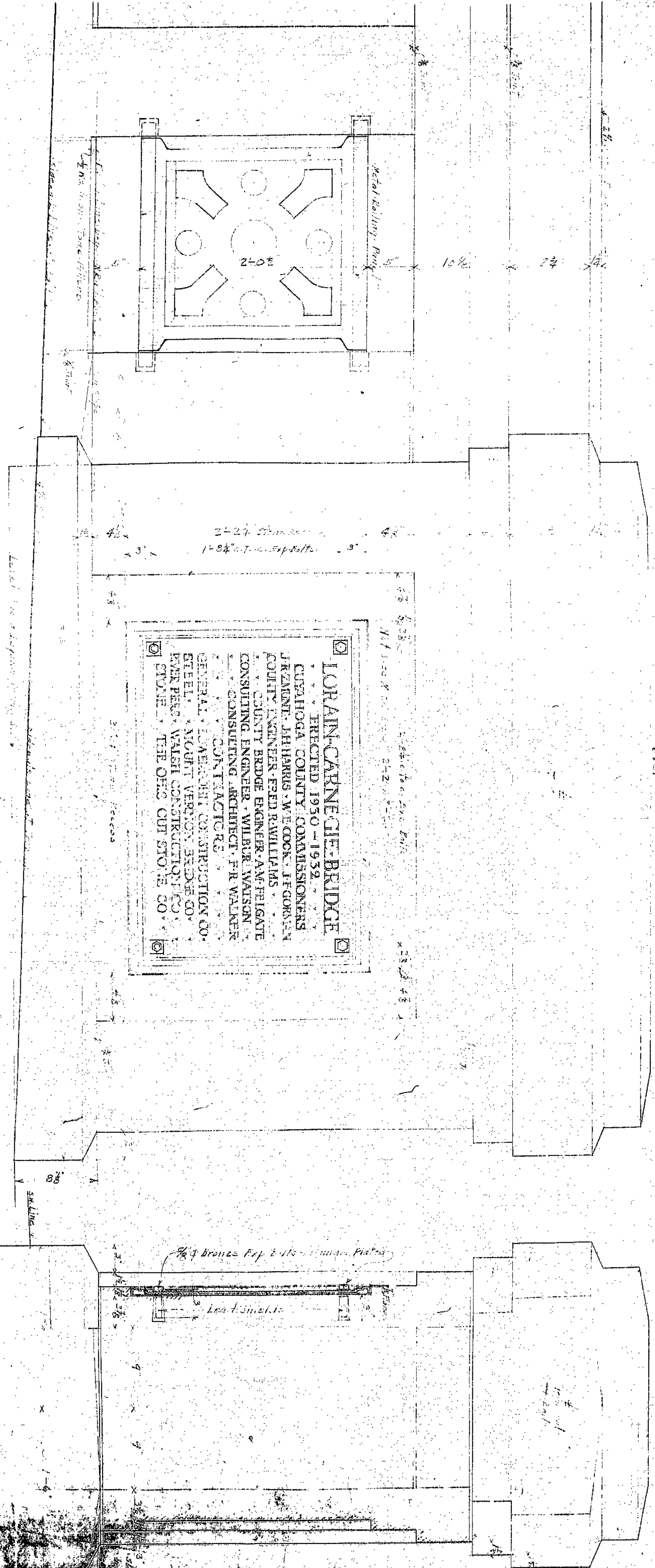
Note: For Note B and for details of Concrete Man see sheets 54 and 55. Street Main see sheets 53 and 56. Call from Main see sheet 57.

**APPROVED**  
 DEC. 4, 1946  
 DIRECTOR OF PUBLIC UTILITIES  
 ENGINEER OF CONSTRUCTION & SURVEY  
 CIVIL ENGINEER

**LOW SERVICE DISTRICT**  
 DEPARTMENT OF PUBLIC UTILITIES  
 CLEVELAND, OHIO  
 CONTRACTOR:  
**W12th STEWART MAIN**  
 DIVISION OF WATER SUPPLY  
 30" MAIN - PLAN AND PROFILE  
 STA. 0+00 TO STA. 12+53.01  
 SCALE: 1" = 20'  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 NO. SM 6501

REVISIONS  
 H & E  
 573-41





**LORAIN-CARNEGIE BRIDGE**  
 ERECTED 1950-1952  
 CUYAHOGA COUNTY COMMISSIONERS  
 J. RANDOLPH HARRIS, W. E. COON, J. F. GORMAN  
 COUNTY ENGINEER, FRED R. WILLIAMS  
 COUNTY BRIDGE ENGINEER, A. M. PELGATE  
 CONSULTING ENGINEER, WILBUR WATSON  
 CONSULTING ARCHITECT, F. R. WALKER  
 CONTRACTORS  
 GENERAL CONTRACTOR, CONSTRUCTION CO.  
 STEEL, MOULT VERNON BRIDGE CO.  
 RIVETERS, WASH CONSTRUCTION CO.  
 STONE, THE OHIO CUT STONE CO.

3. Side Elevation of Bridge Deck  
 For Location of Reading 7  
 Lorain-Carnegie Bridge

SECTION AA

3/8" Bronze Exp. Bolts - Under Plates  
 Lead Sinteric

Met. Bolting, Rivets

Level to top of parapet

5/8" S.W. Line

Sidewalk, 18" wide

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

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2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

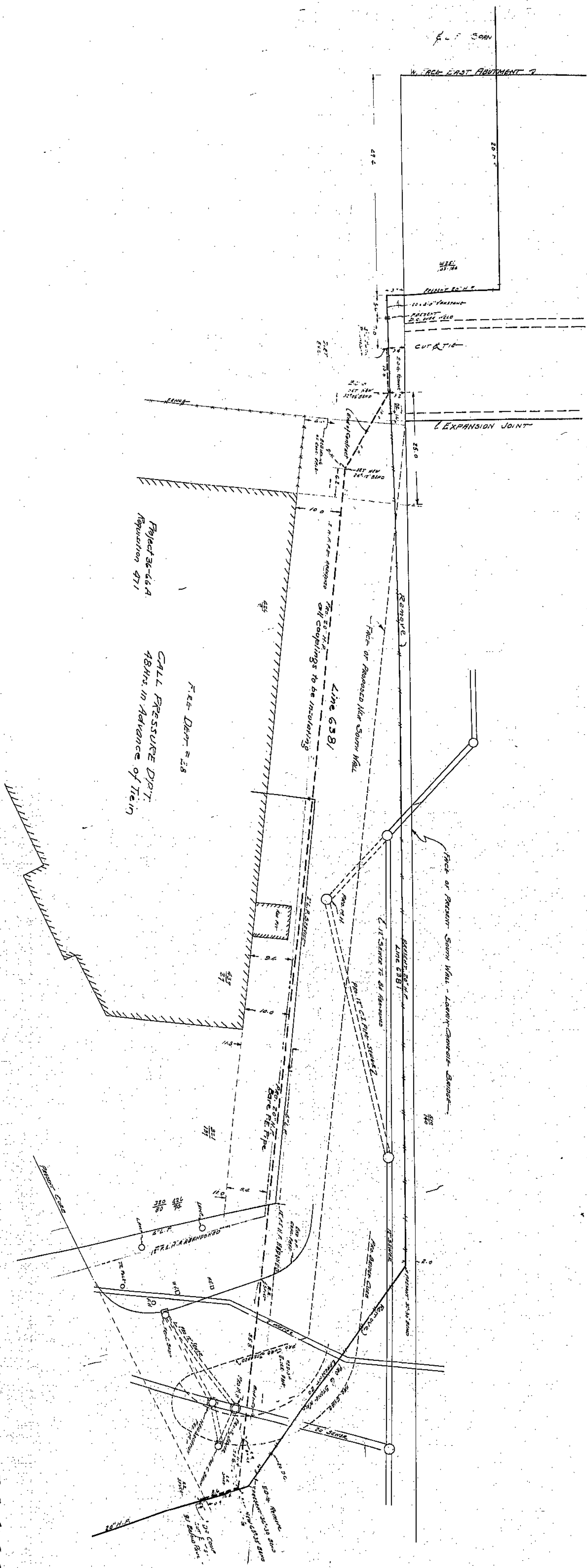
2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete

2" x 4" x 8" Concrete



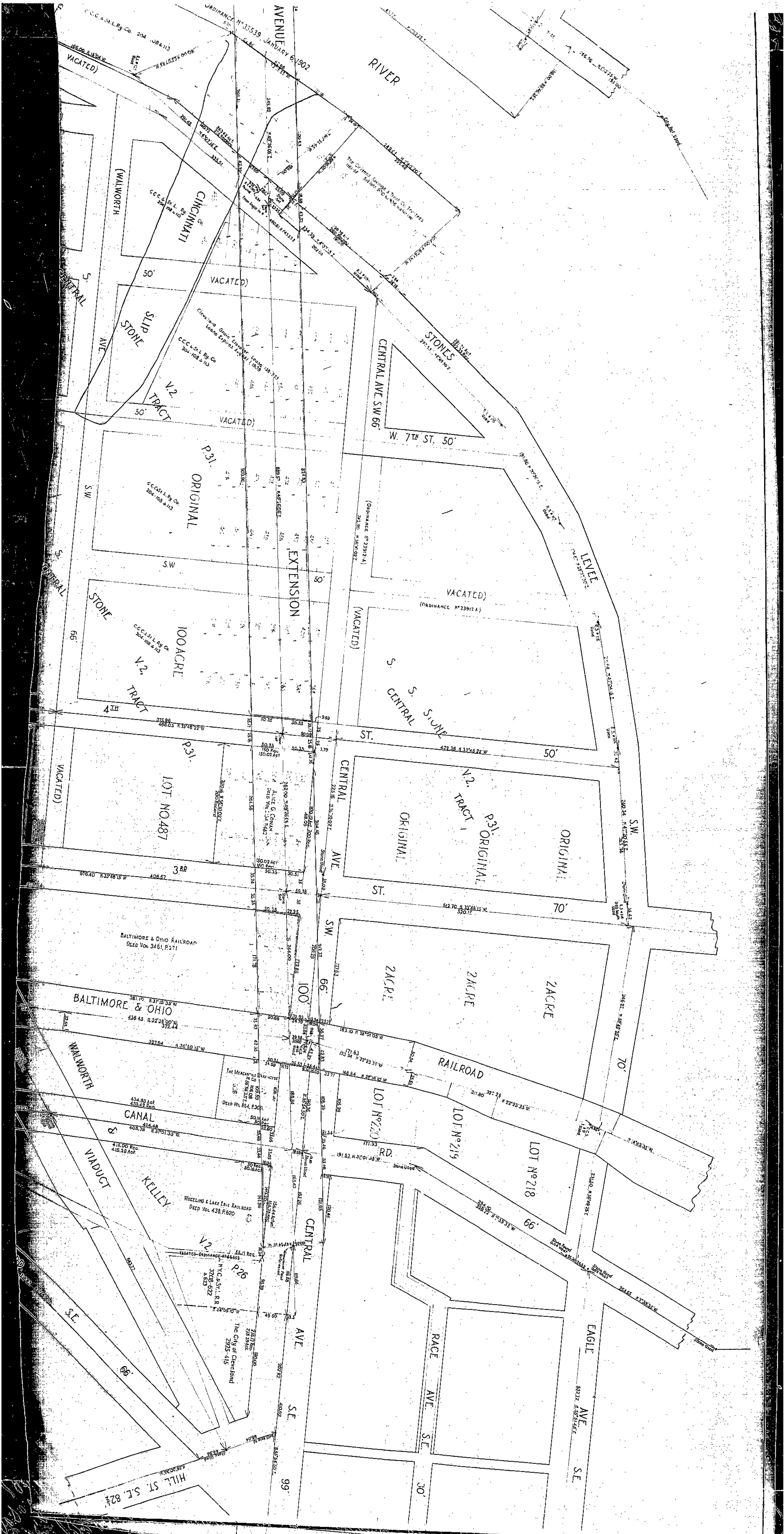


Project 36-66A  
Reproduction 971

CALL PRESSURE D.P.T.  
48 Hrs. in Advance of Test

The East Ohio Grads.  
Process Reproduction of the  
20 1/2" High at the East End  
of the Lamm-Comstock Bank—  
Scale 1/4" = 1'-0" N.C.S.





ORDINANCE NO. 35539 JANUARY 6, 1902

CINCINNATI RIVER

CINCINNATI

STONE SLIP TRACT

V2 TRACT

P31 ORIGINAL

EXTENSION

STONE

V2 TRACT

P31 ORIGINAL

LOT NO. 487

BALTIMORE & OHIO RAILROAD

BALTIMORE & OHIO

WALWORTH

CANAL

VIA DUCT

KELLEY

CENTRAL AVE.

SE

HILL ST. SE. 82 1/2'

CENTRAL AVE. SW 66'

W. 7TH ST. 50'

STONES

LEVEL

(VACATED)

S. CENTRAL STONE

CENTRAL AVE.

ST.

SW

66'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

ORIGINAL

V2 TRACT

P31 ORIGINAL

ORIGINAL

2ACRE

2ACRE

2ACRE

LOT NO. 220

LOT NO. 219

LOT NO. 218

RACE AVE.

SE

30'

EAGLE AVE.

SE

30'







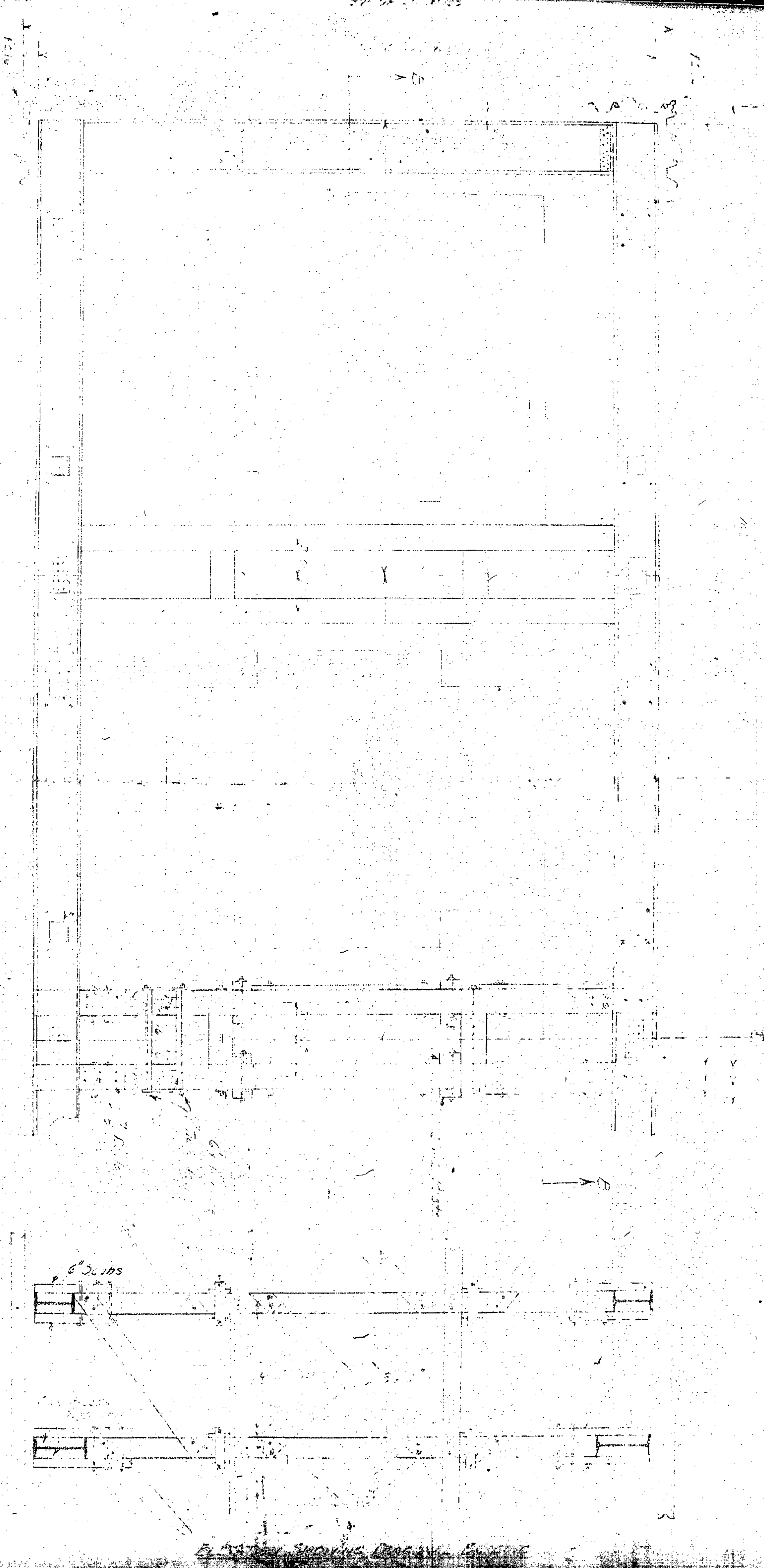








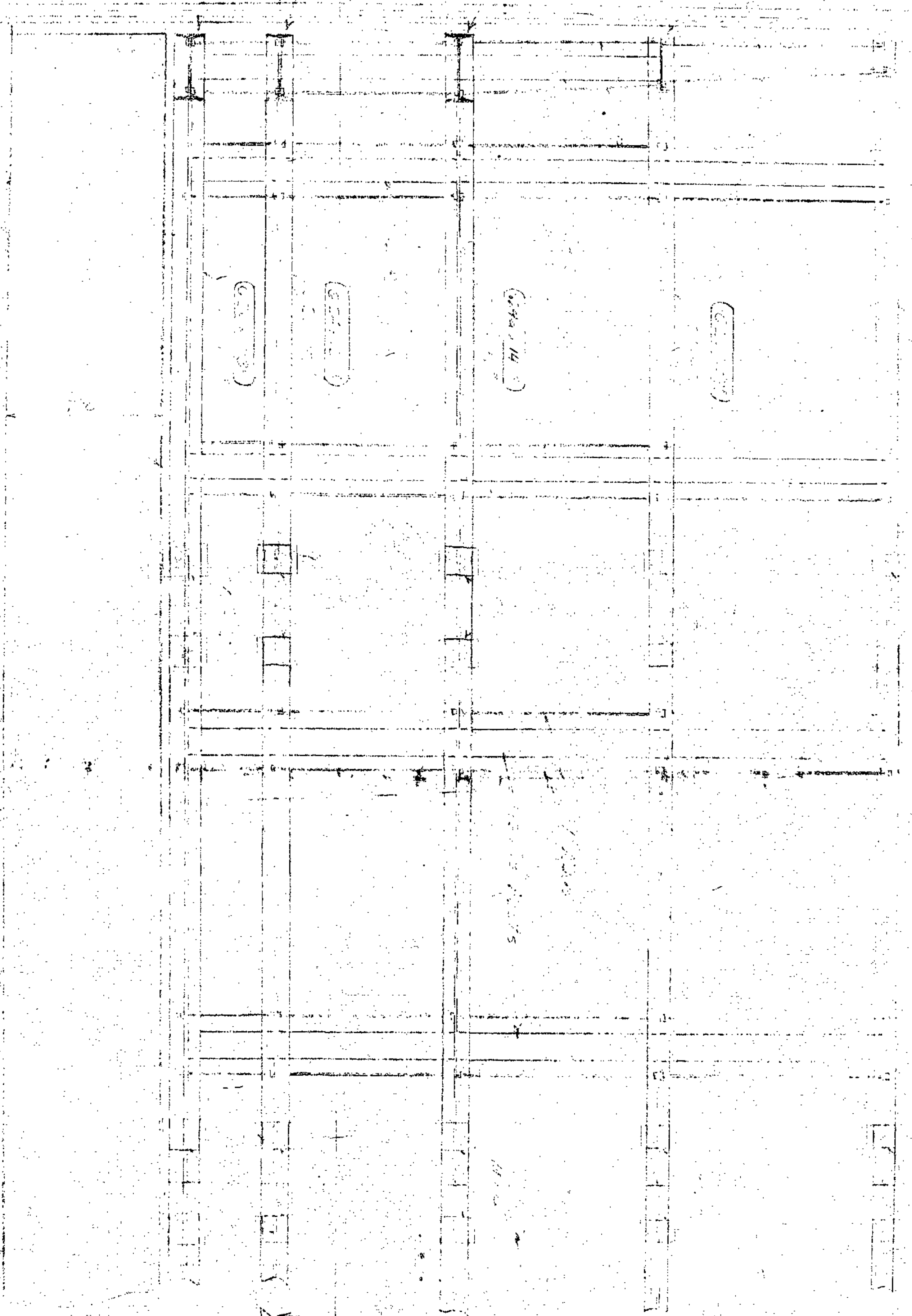
14.7



Cofferdam Design  
Lorain-Central Bridge  
River Piers  
Malsh Construction Company  
March 1930



12' 4" 5' 4' 5' 9' 10'



SEE PLAN FOR BRIDGE

Cotterdam Design

Lorain Central Bridge

River Piers

Wash. Construction Company

March 1930.

147



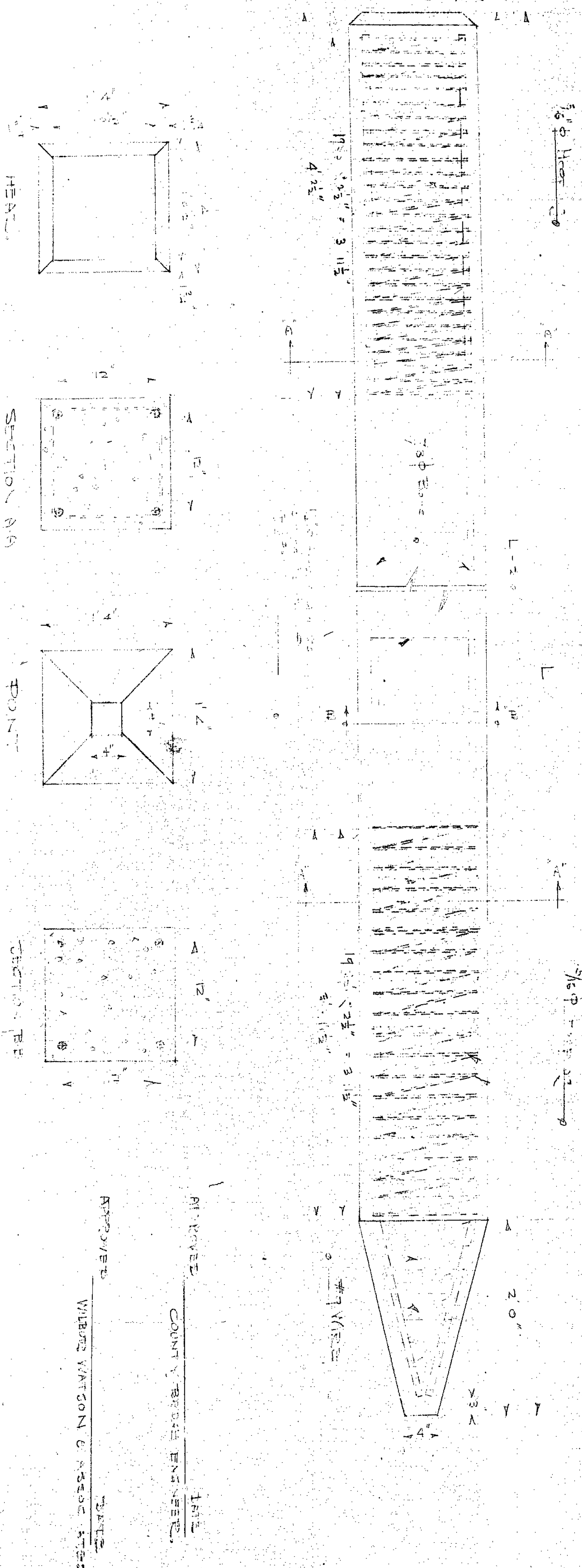
14.7  
REDAE

Gofferdan, Design  
Loran: Central Bridge.  
River Piers  
Walsh Construction Company  
March 1930.





14.7  
REDUC.

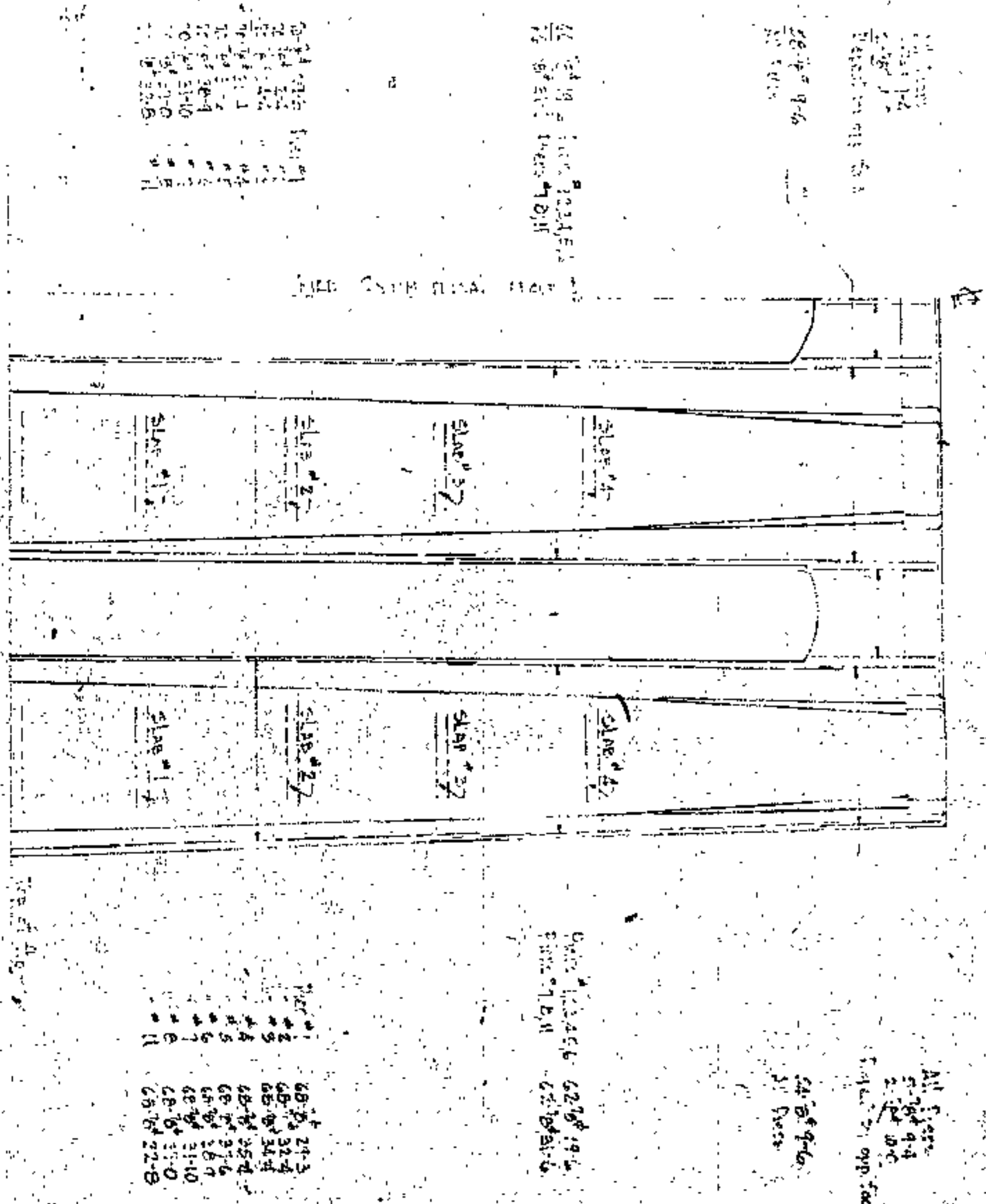


APPROVED  
 DATE  
 VILBERT WATSON COUNTY ENGINEER  
 LOWMEYER CONSTRUCTION CO.  
 CLEVELAND OHIO.  
 PROJECT FILE NO. 100  
 SCALE 1" = 1'-0"

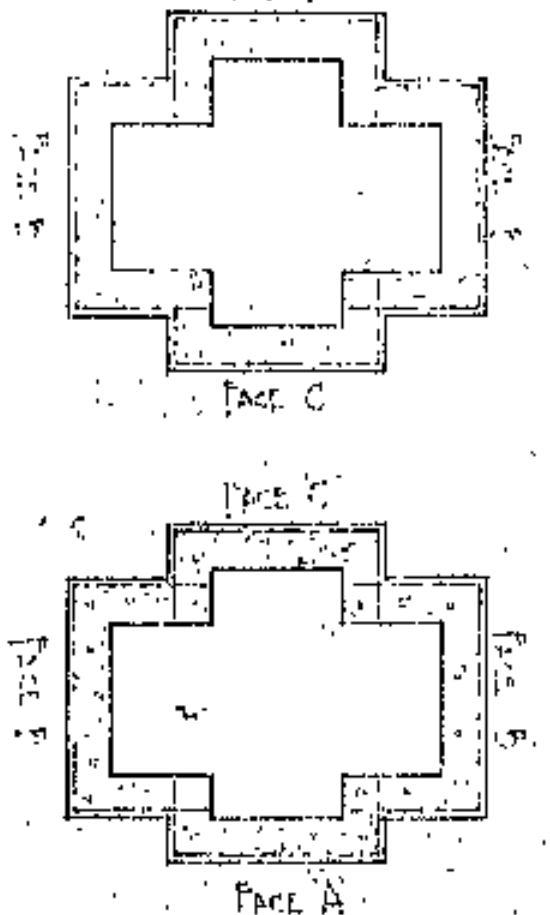




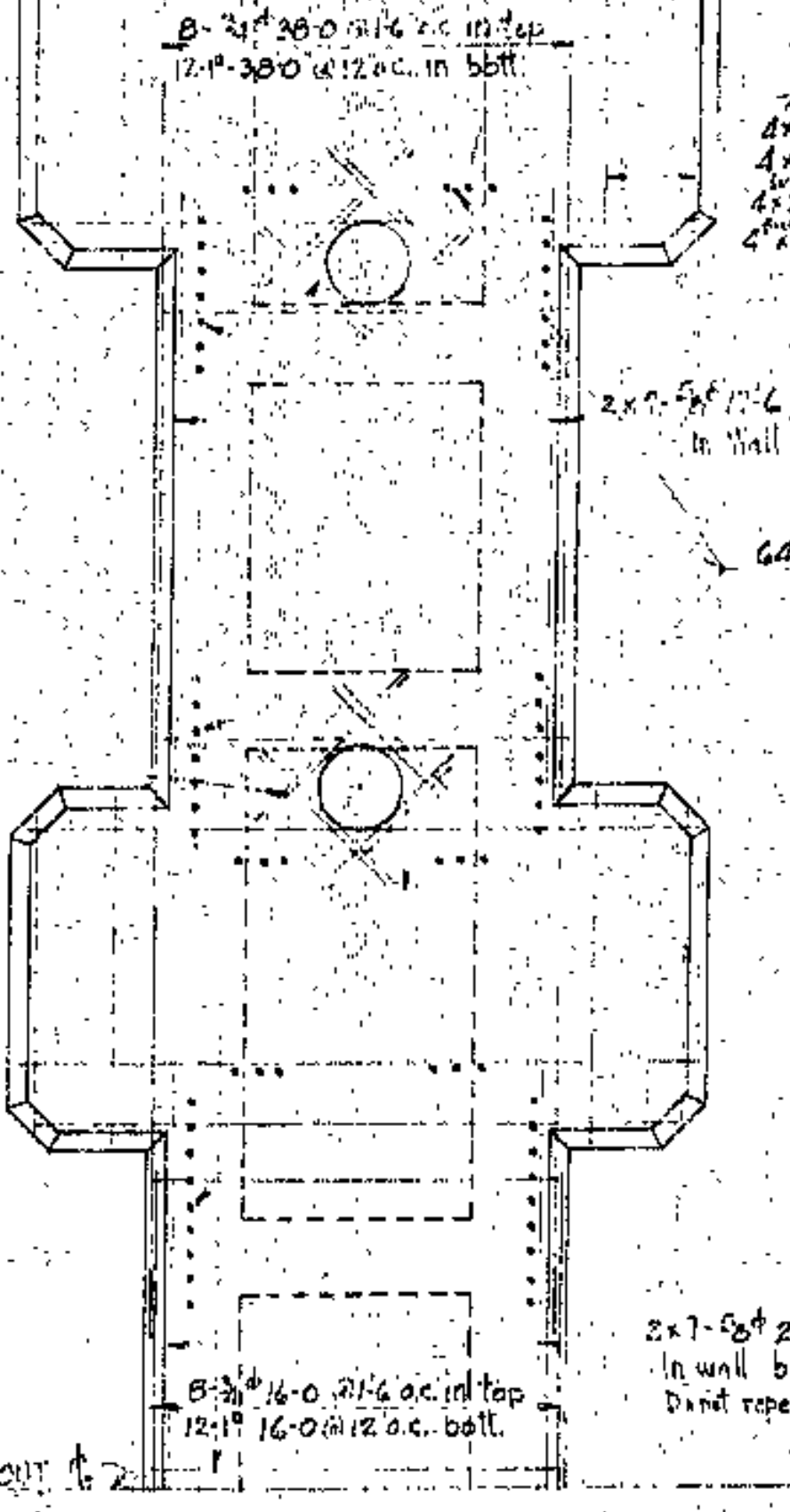
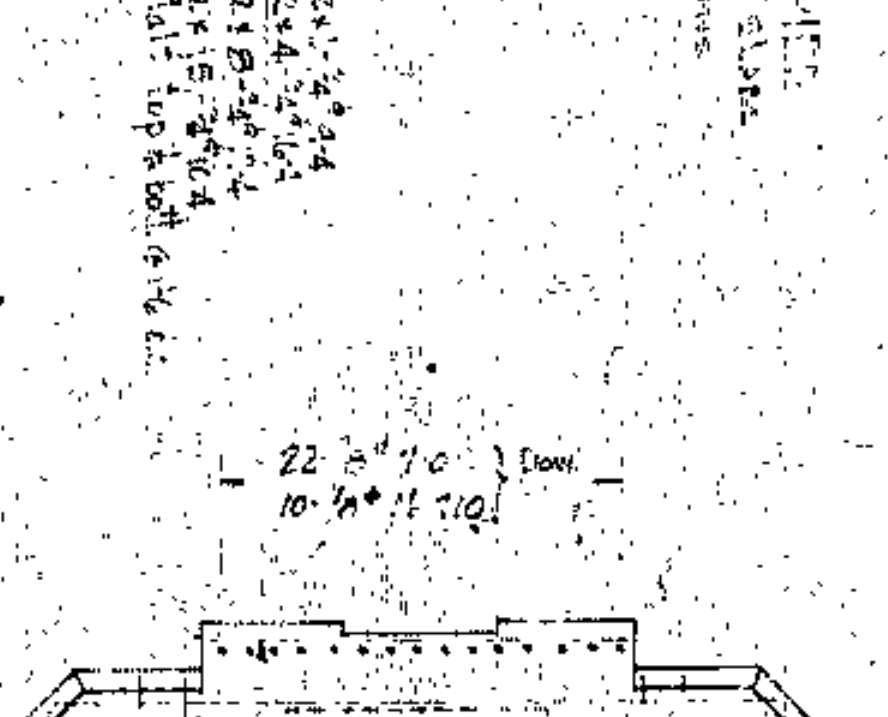
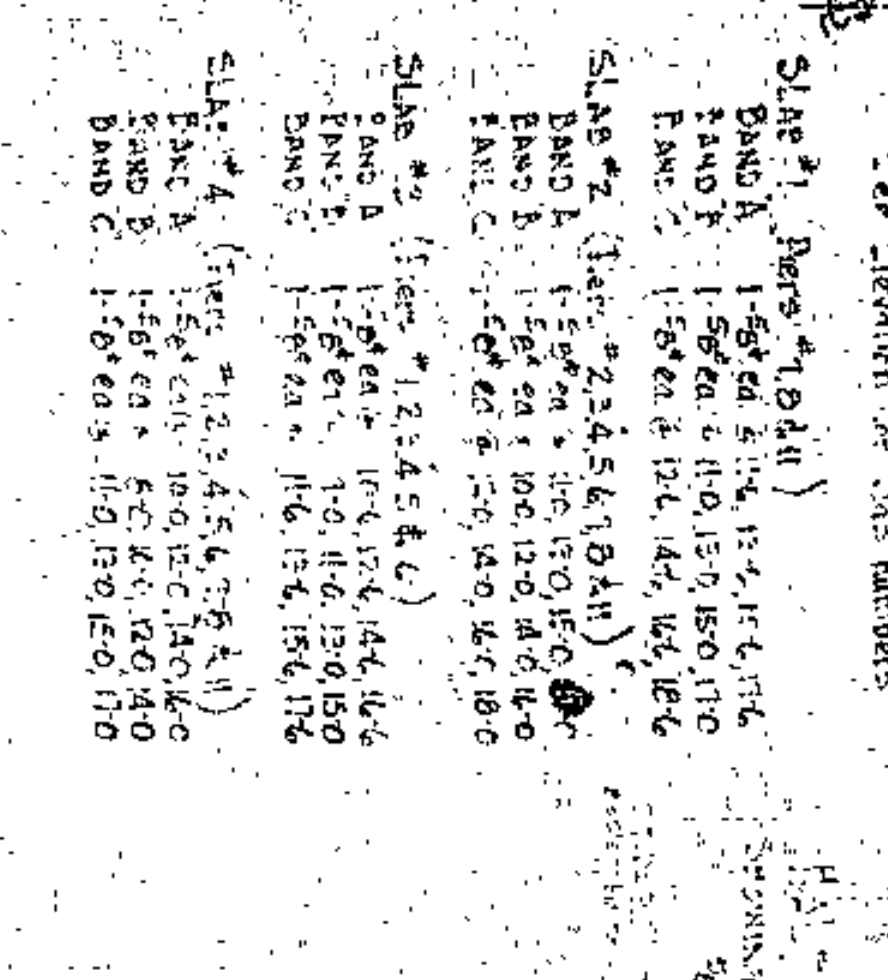
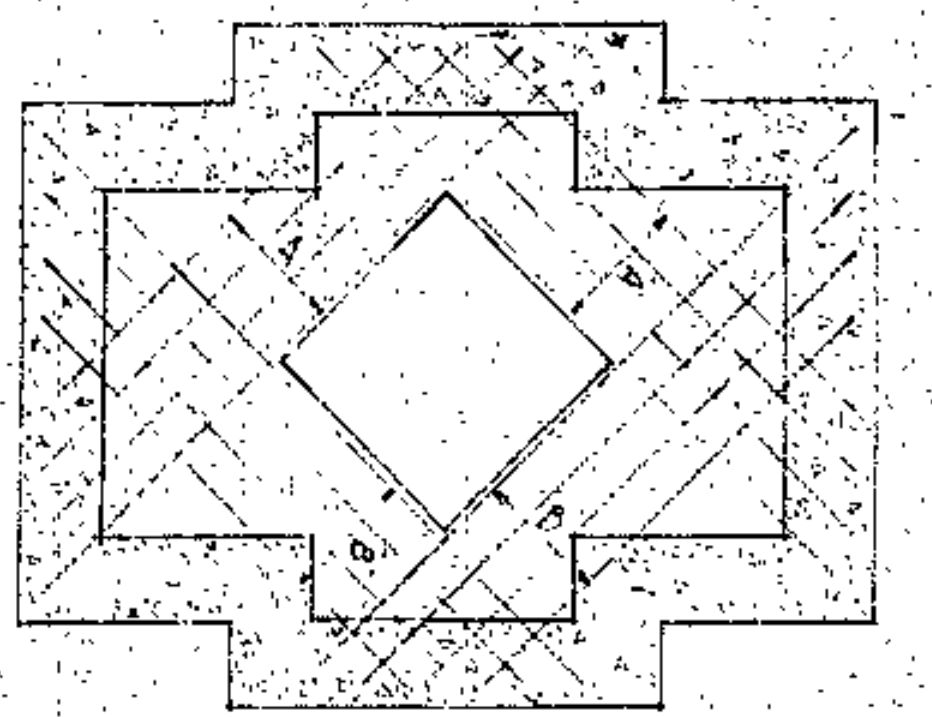
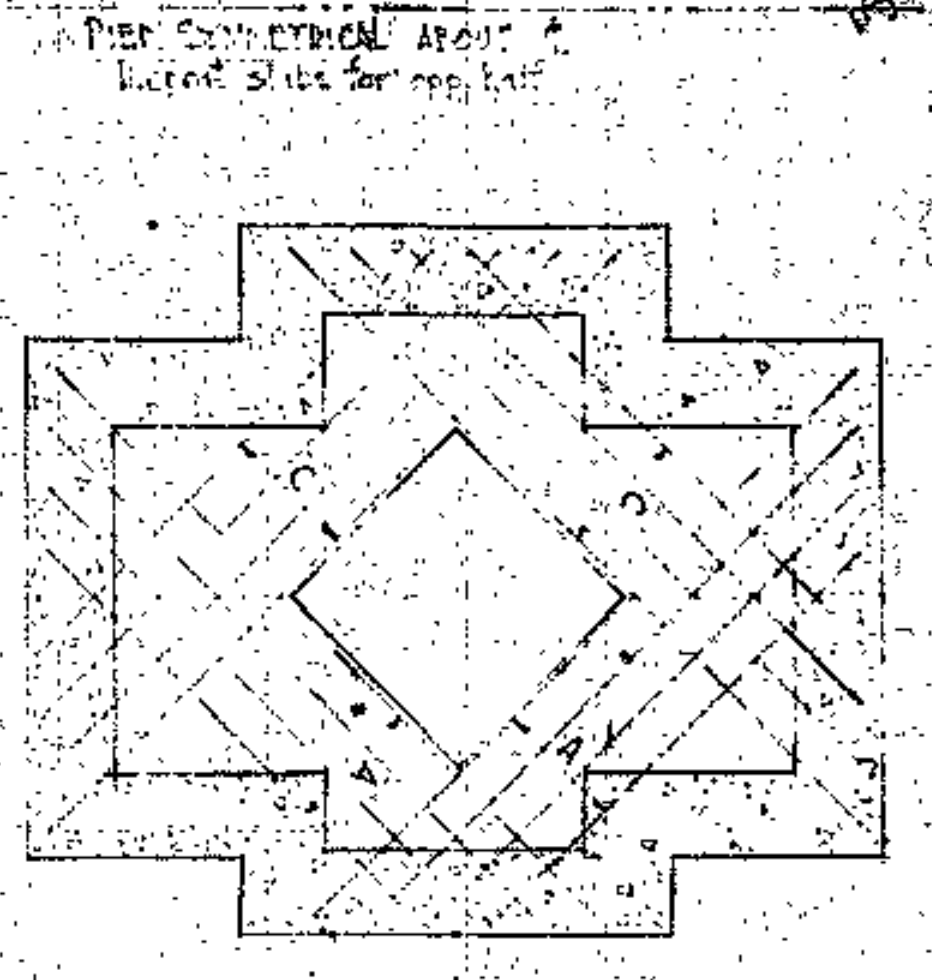




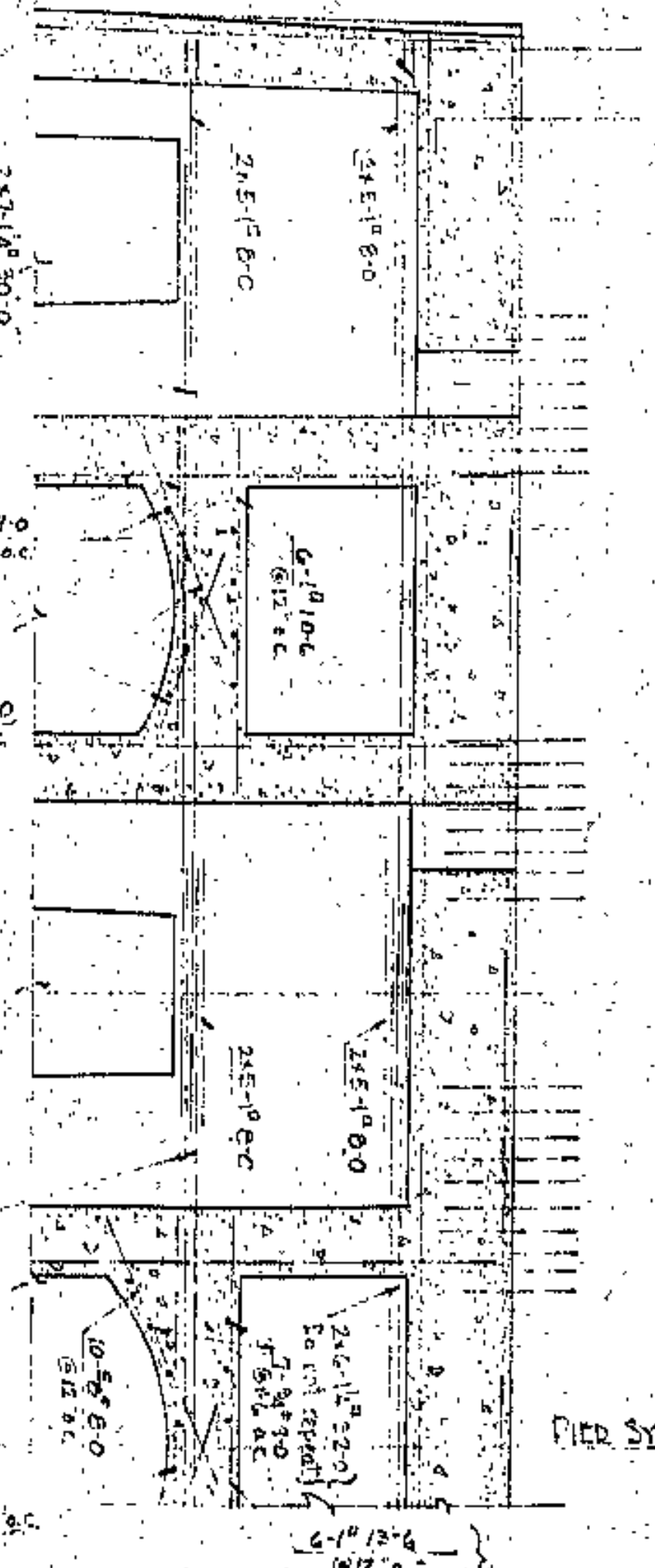
HALF SILL ELEVATION OF PIER  
SHOWING REINFORCING STEEL (WELDED)  
TYPICAL FOR PIER #123456789  
THE TOTAL QUANTITIES IN EACH PIECE SHOULD BE SHOWN



PIER SYMMETRICAL ABOUT  
REPORT QUANTITIES FOR EACH FACE



TOP PLAN



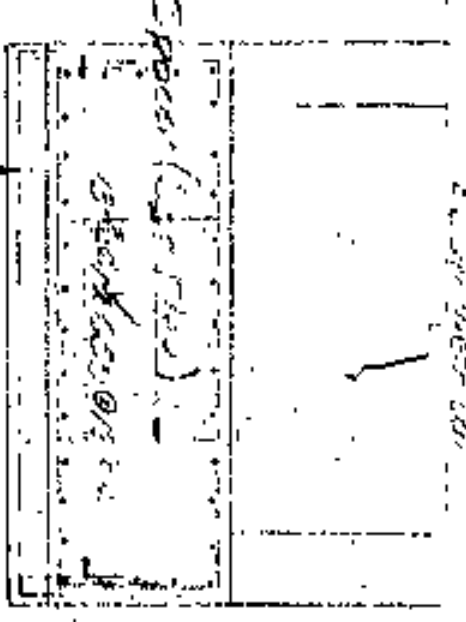
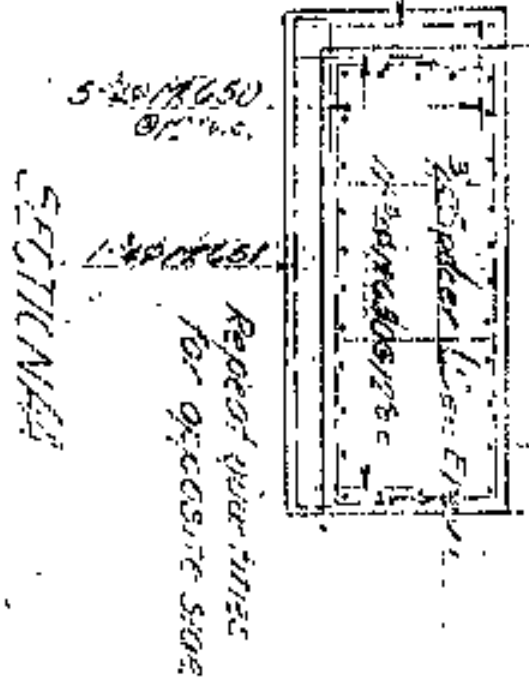
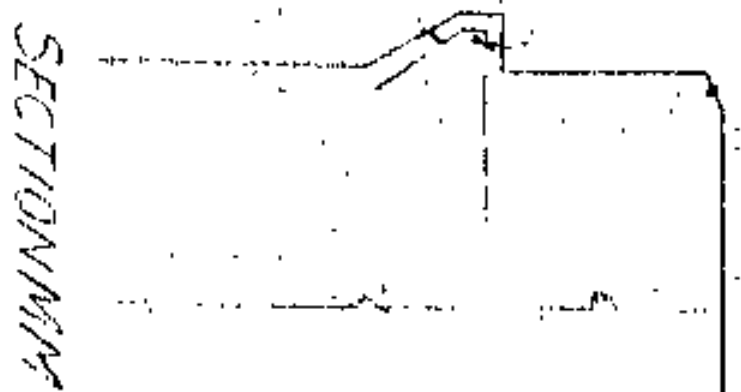
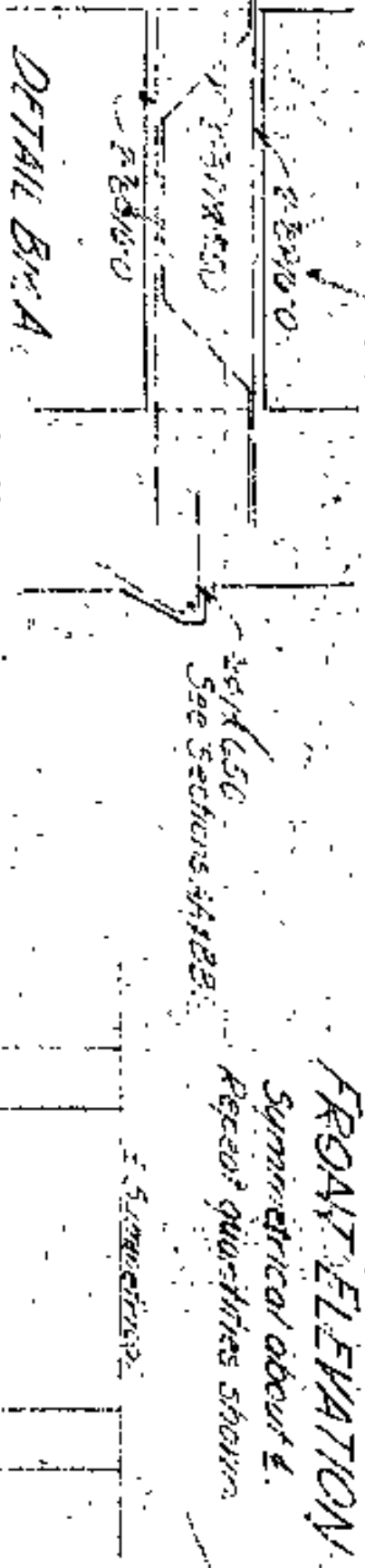
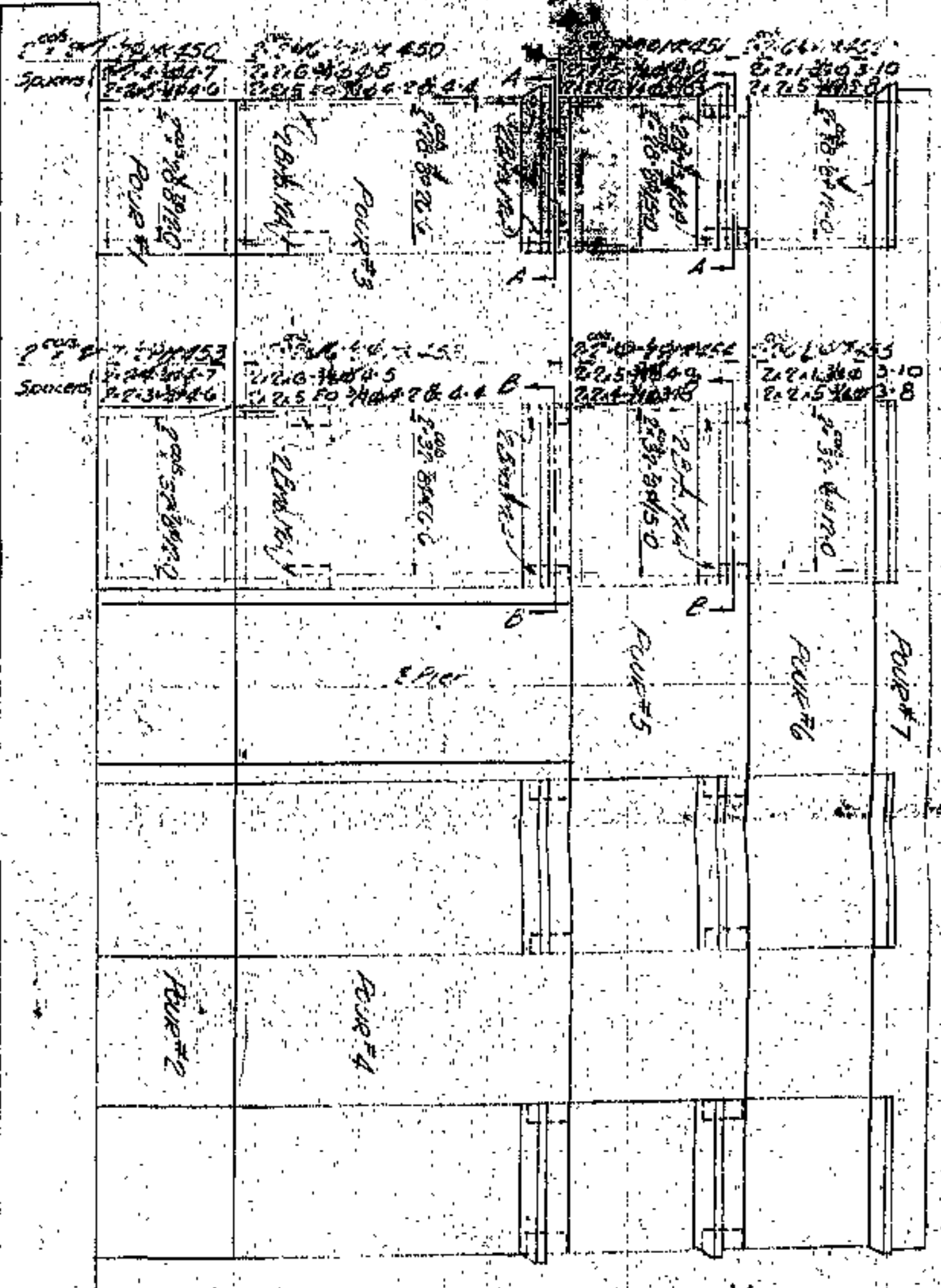
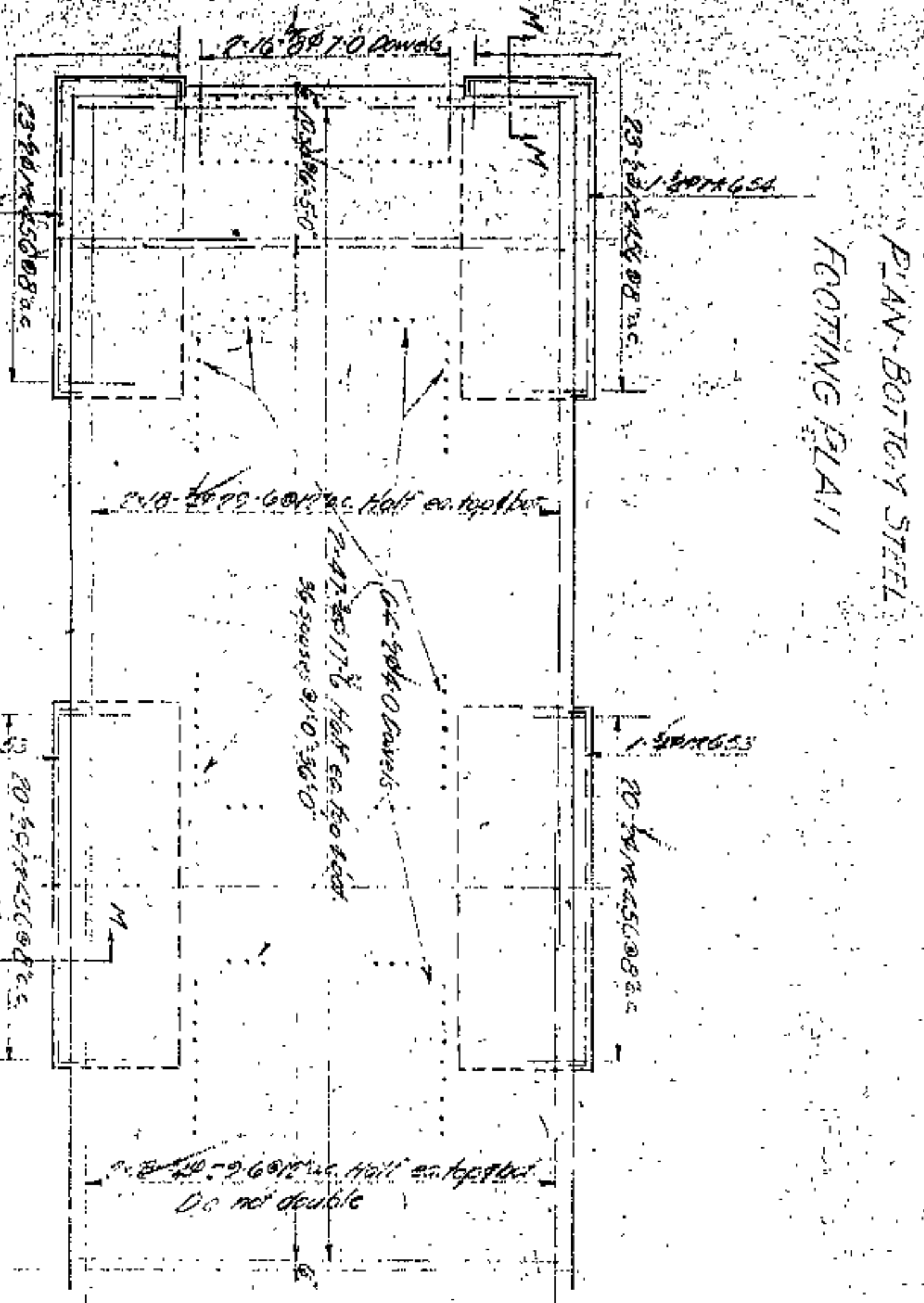
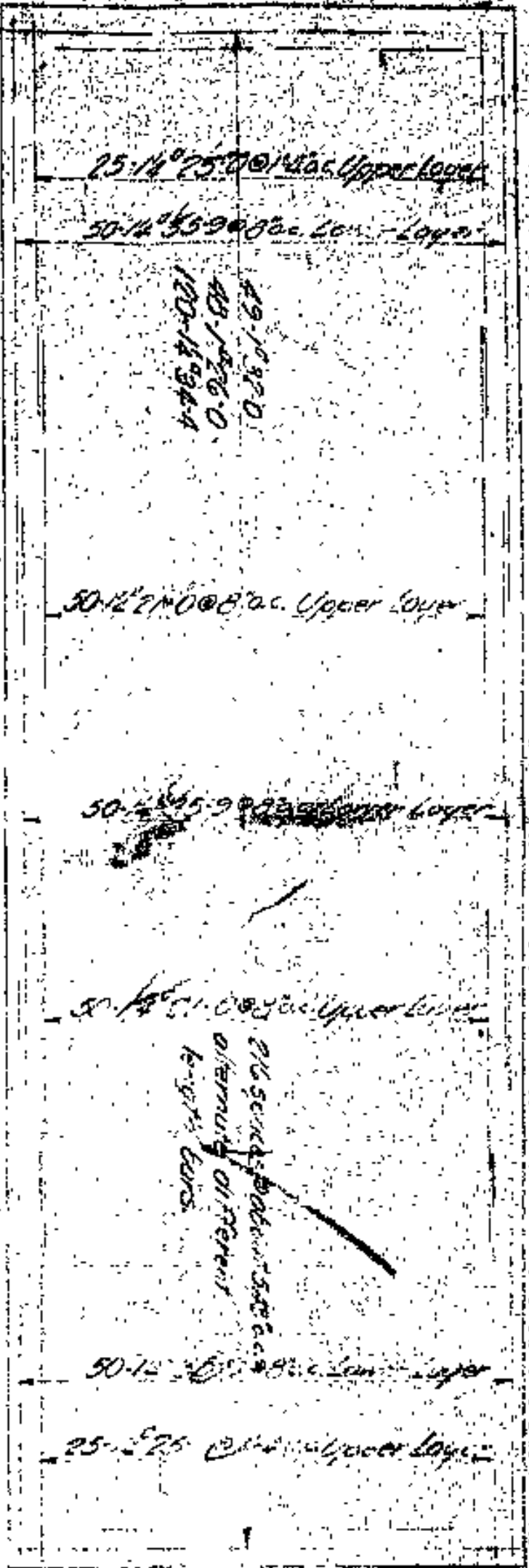
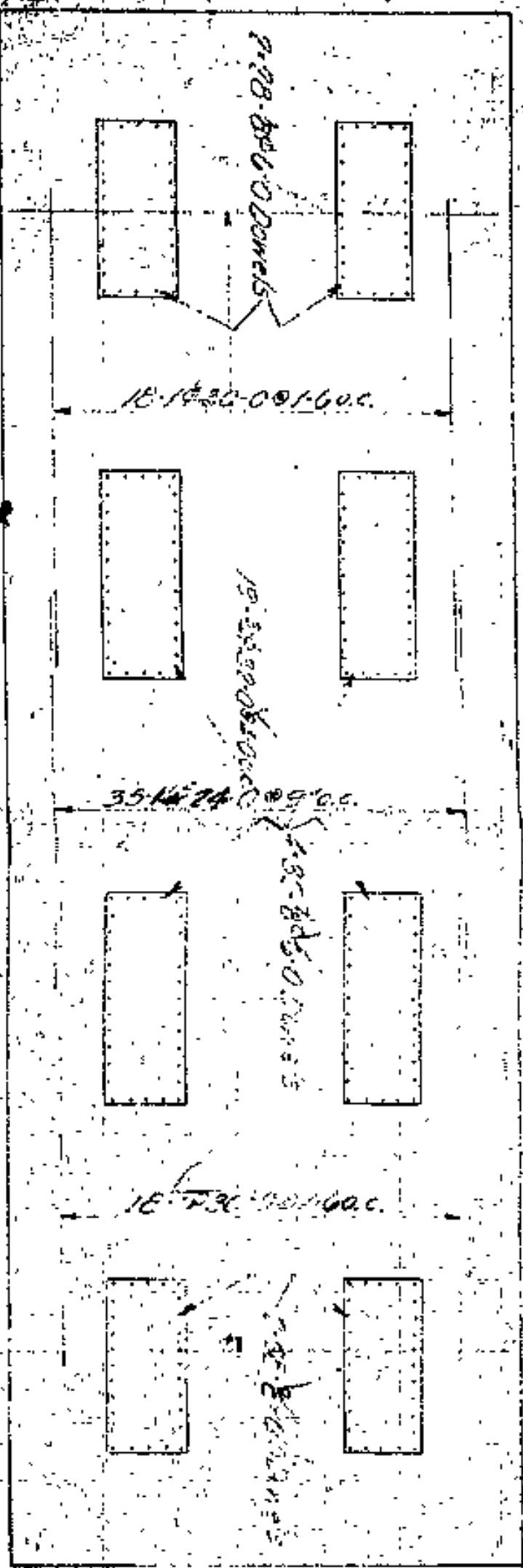
LONGITUDINAL SECTION

PIER #123456789  
TYPICAL FOR PIER #123456789  
THE TOTAL QUANTITIES IN EACH PIECE SHOULD BE SHOWN

PIER #123456789  
TYPICAL FOR PIER #123456789  
THE TOTAL QUANTITIES IN EACH PIECE SHOULD BE SHOWN

DESIGNED BY	DRYAN	DATE	10/25/01
CHECKED BY	ALB	DATE	10/25/01
REVIEWED BY	ALB	DATE	10/25/01
PROJECT NO.	100-250-D		
DRAWING NO.	100-250-D		
THE BOURNE-BROTHERS CO.	DRAWING NO. 100-250-D		
UPSON RIBBED REINFORCING BARS	DRAWING NO. 100-250-D		
LODGE CENTRAL BRIDGE	DRAWING NO. 100-250-D		
CONSTRUCTED BY	DRAWING NO. 100-250-D		
THE LAWRENCE CONSTRUCTION CO.	DRAWING NO. 100-250-D		
THE BOURNE-BROTHERS CO.	DRAWING NO. 100-250-D		





HALF PLAN OF CAP  
Symmetrical about E  
Reinforcement shown  
unless otherwise noted.

FRONT ELEVATION  
Symmetrical about E  
Reinforcement shown  
unless otherwise noted.

SECTION M/M

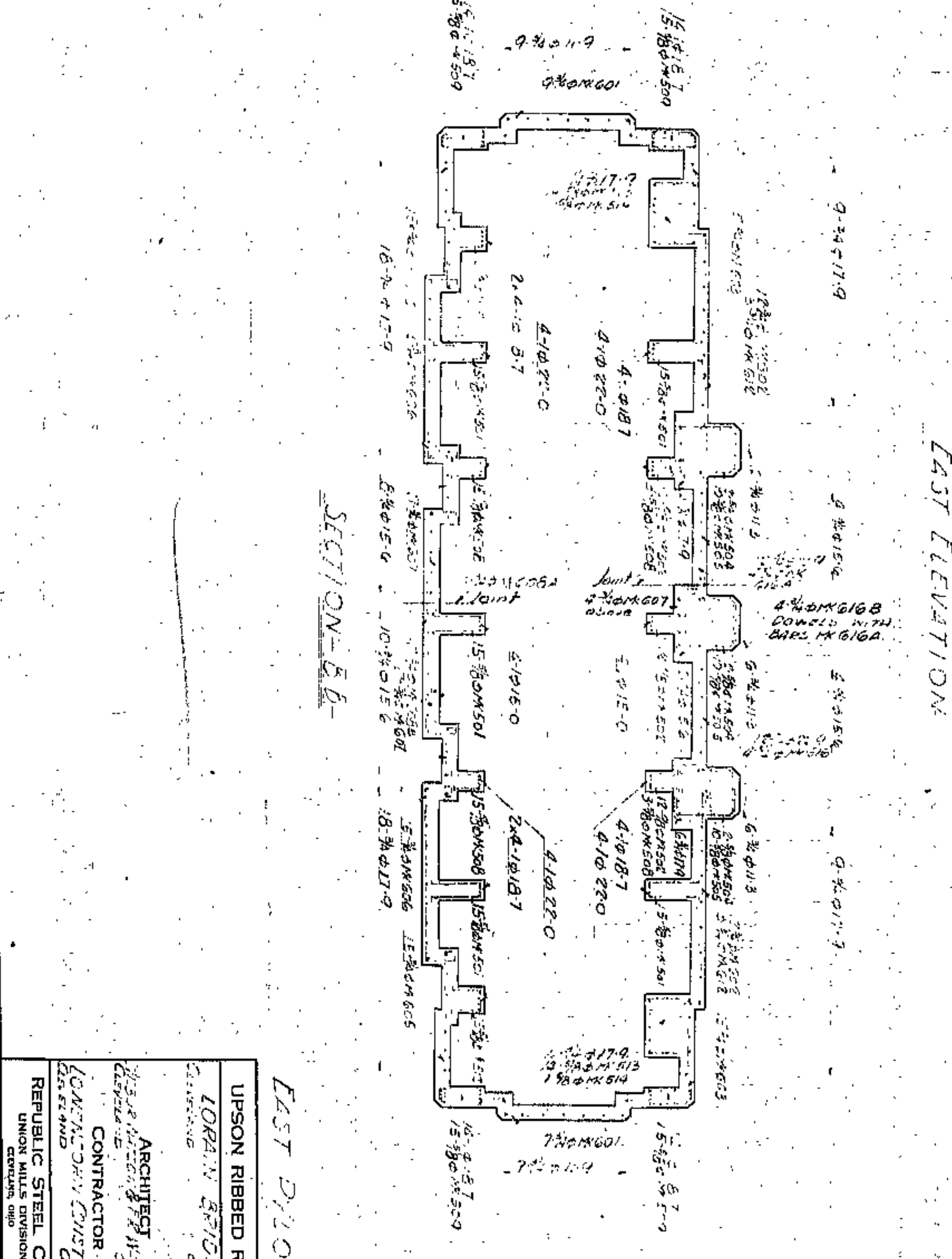
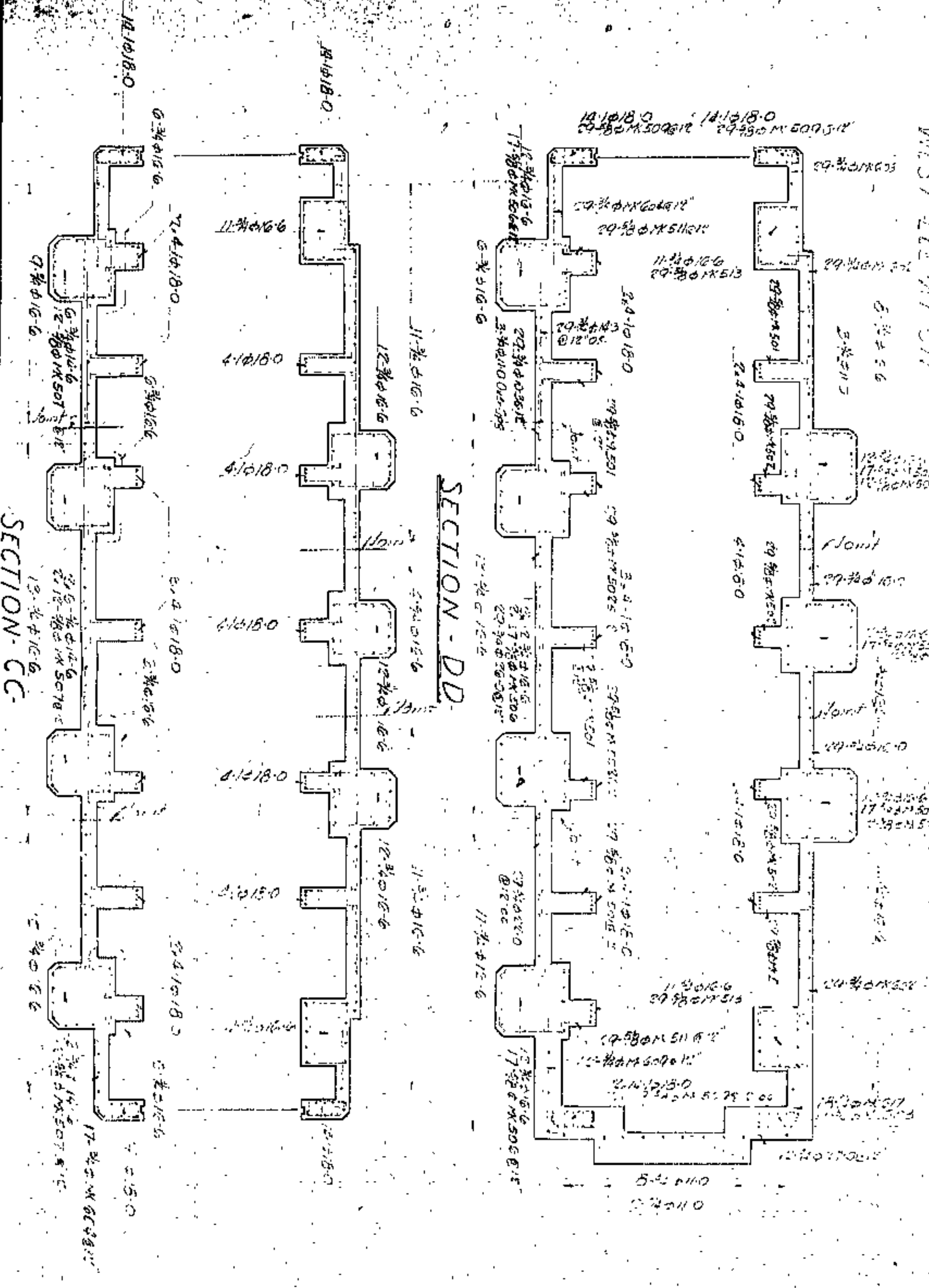
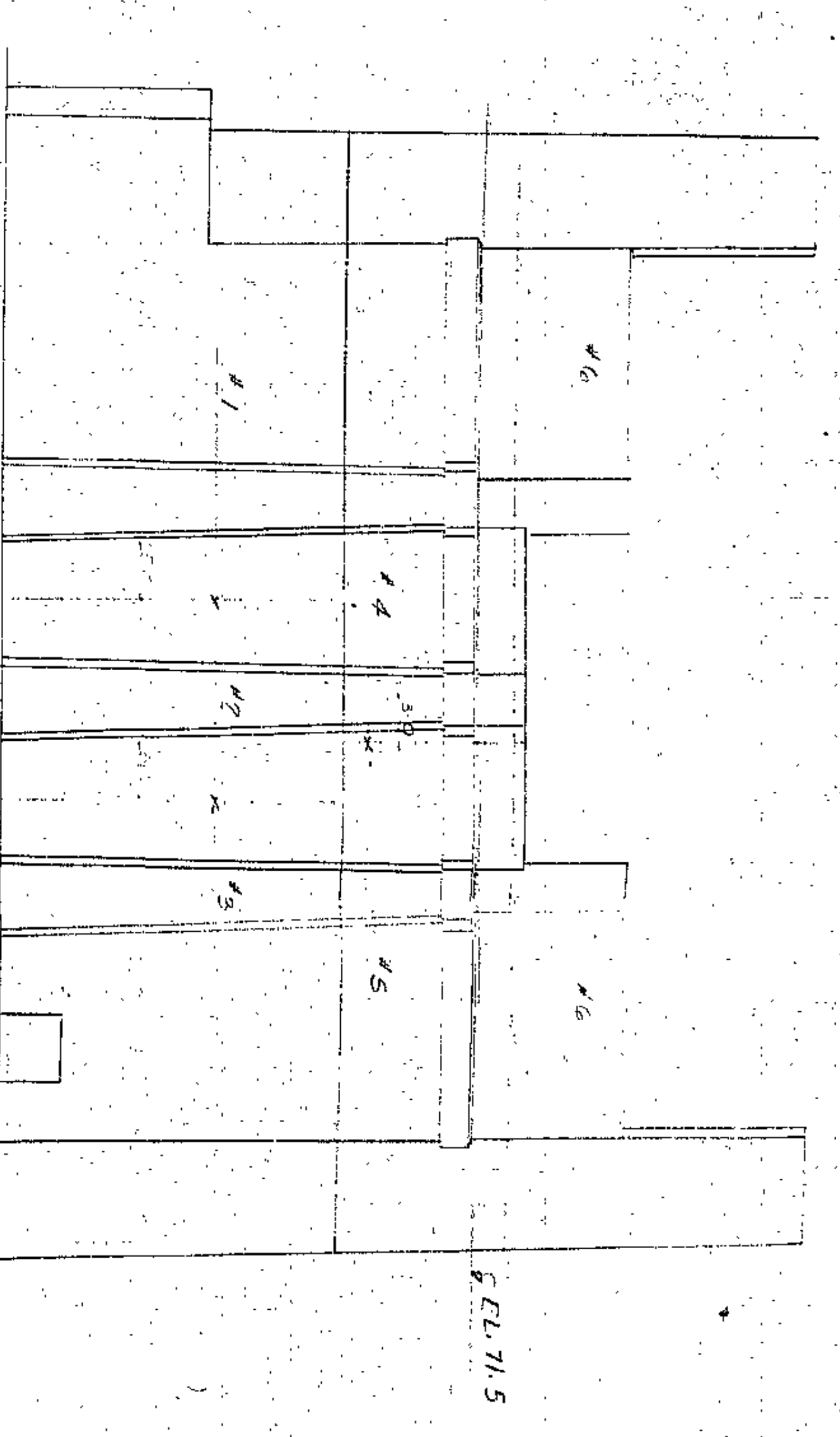
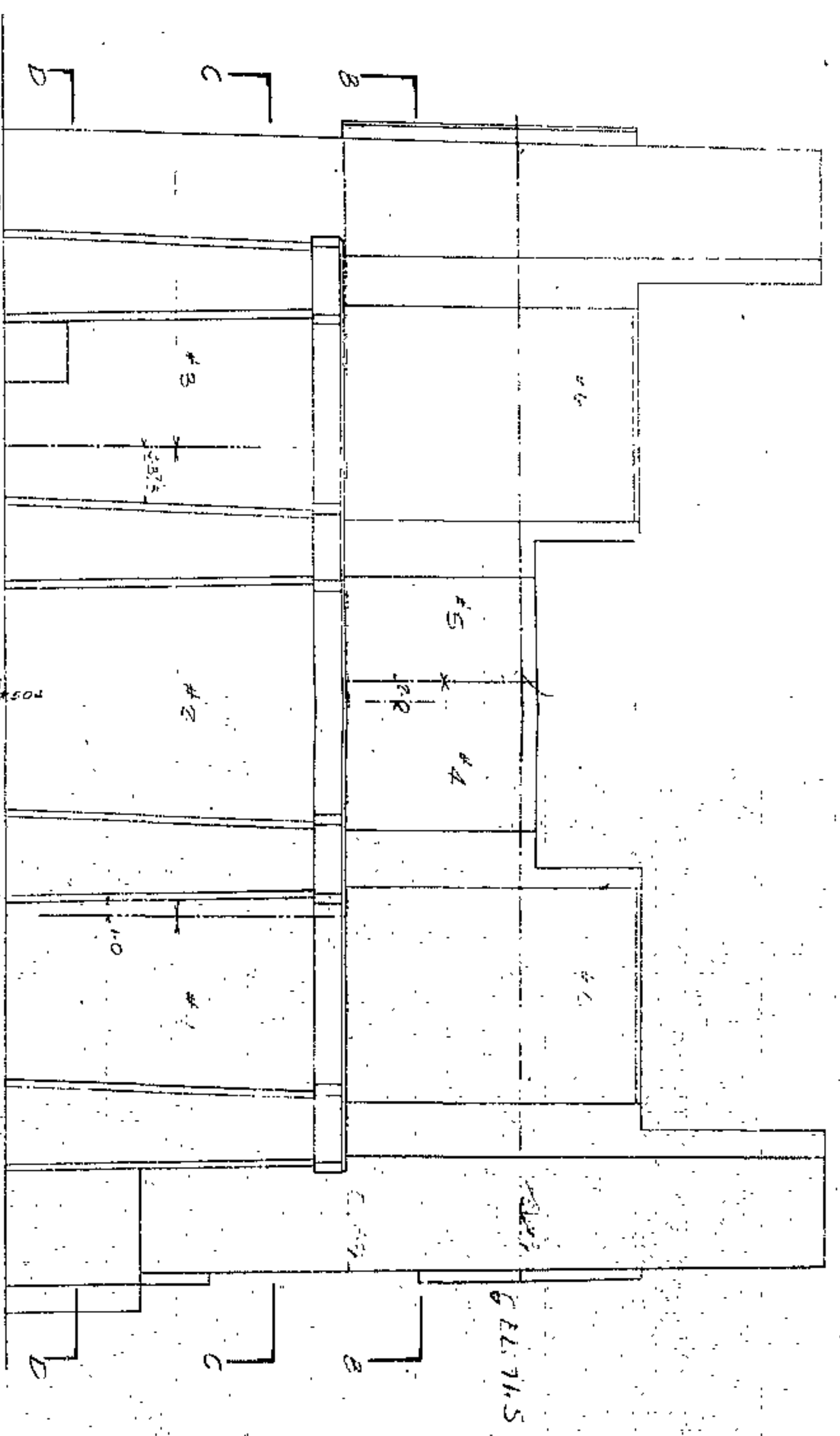
SECTION A/A

SECTION B/B

PIER #12

UPSON RIBBED REINFORCING BARS	
DESIGNED	REPUBLIC STEEL CORP.
ARCHITECT	REPUBLIC STEEL CORP.
CONTRACTOR	REPUBLIC STEEL CORP.
DRAWING NO.	30-150-H

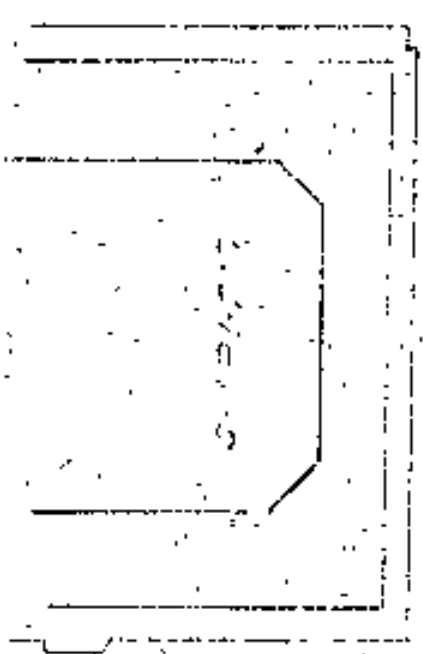
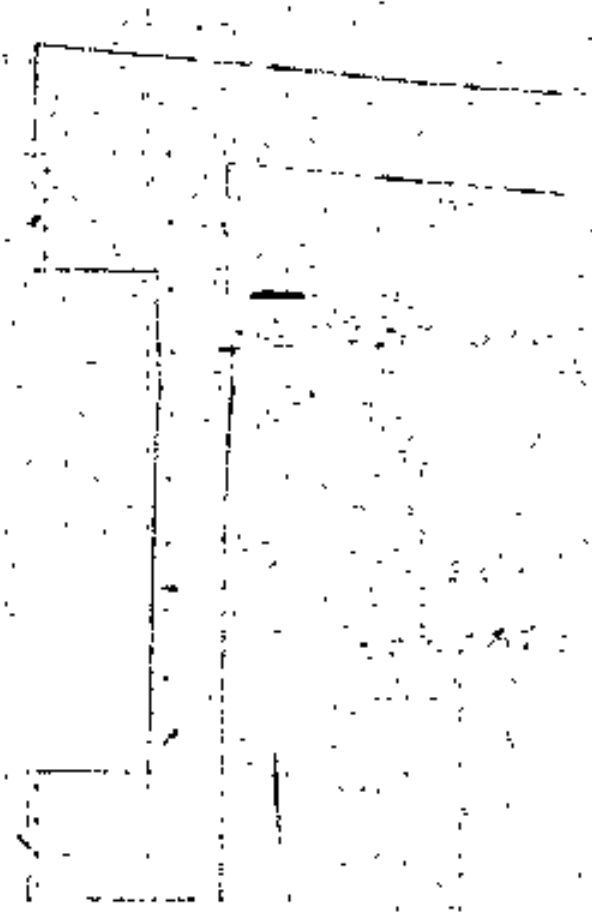
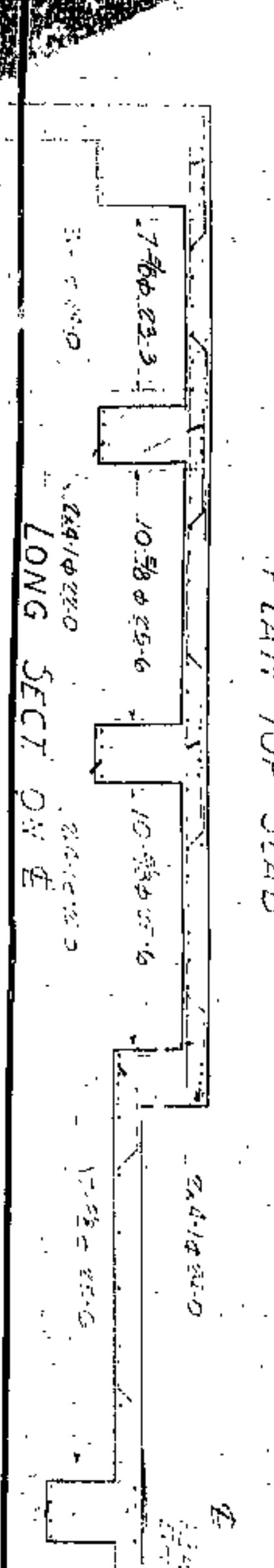
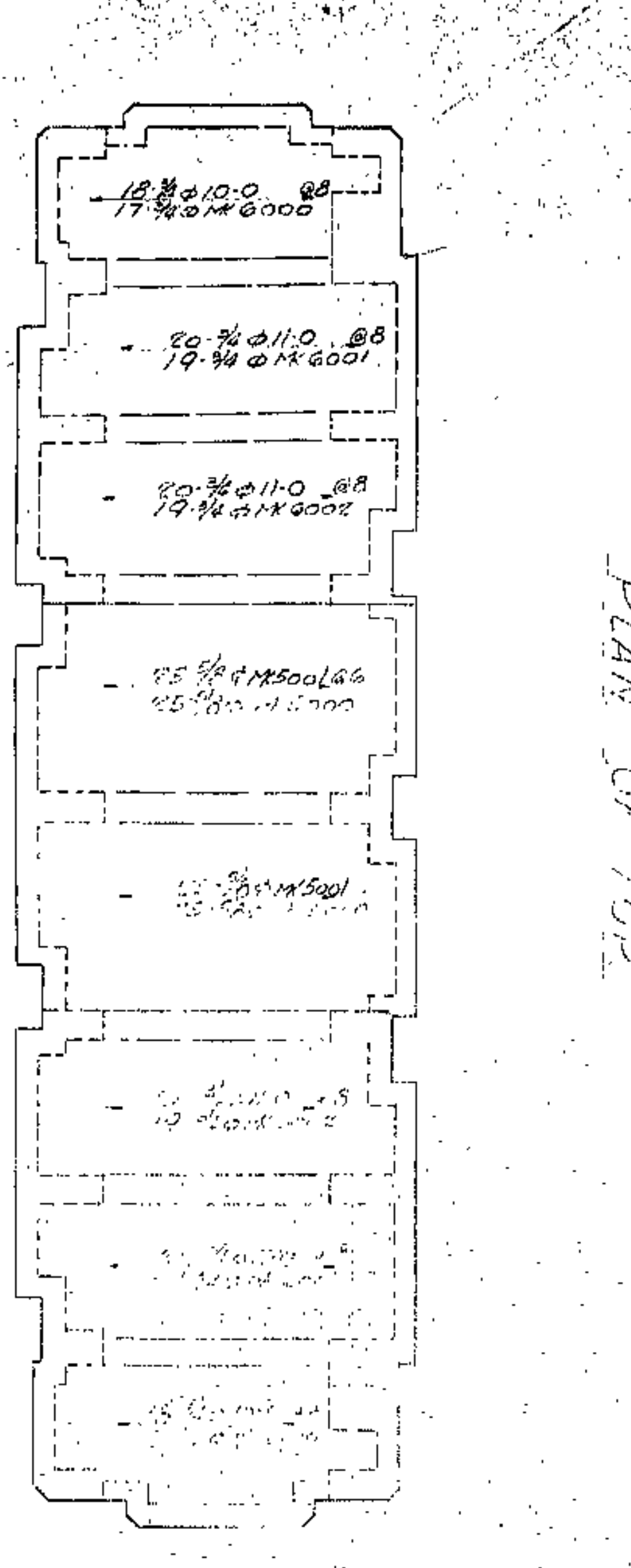
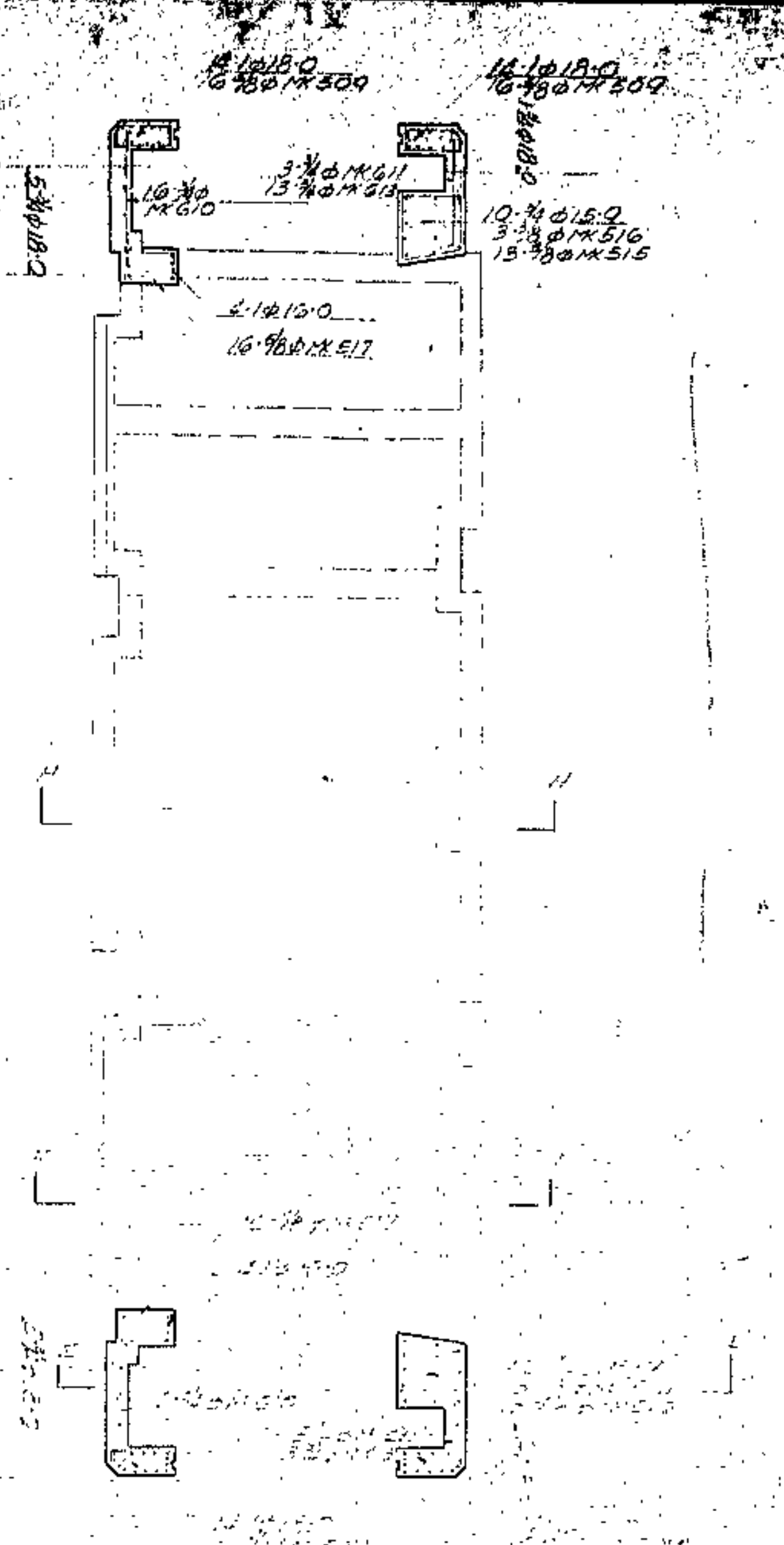
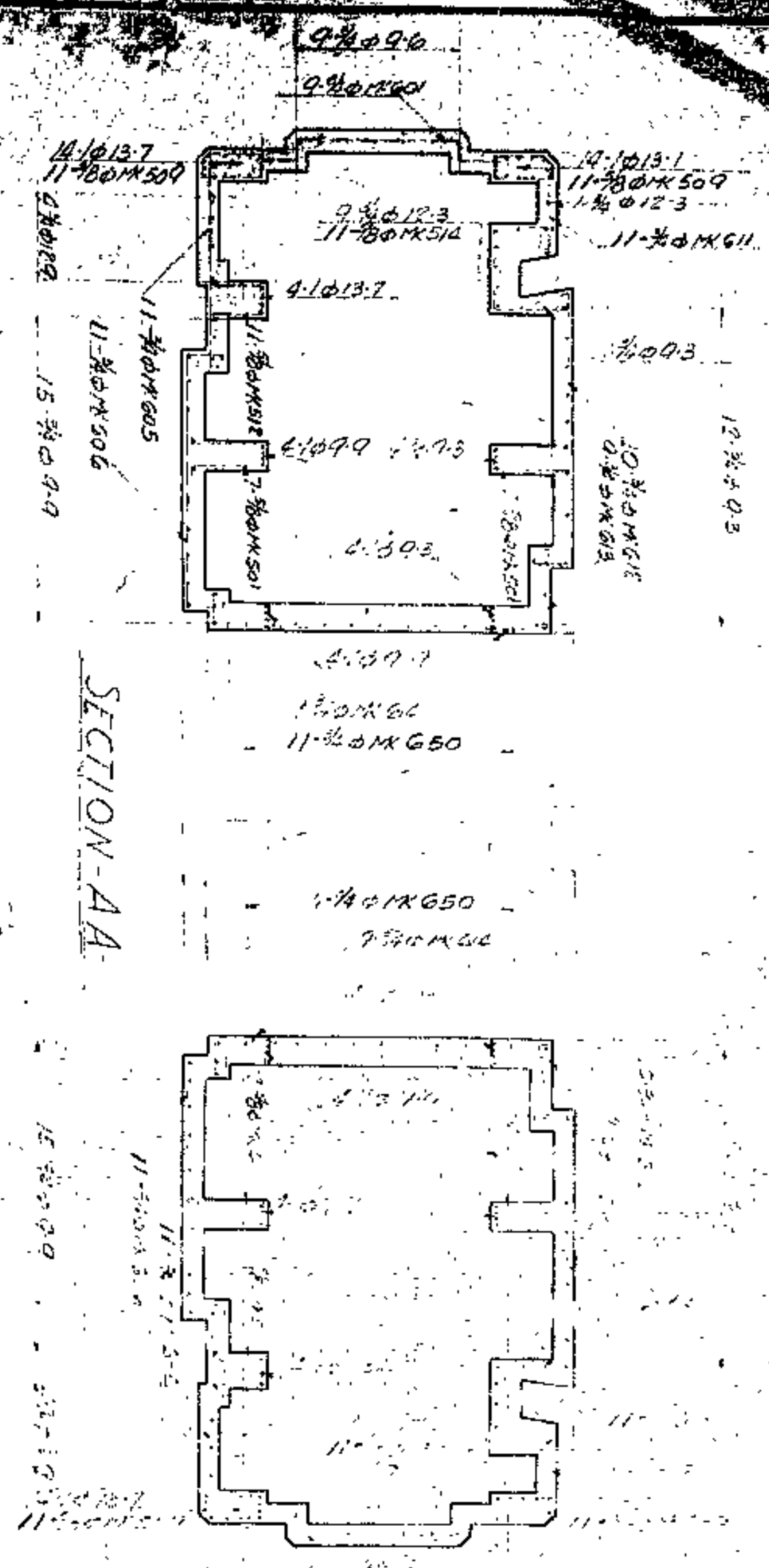




**UPSON RIBBED REINFORCING BARS**

DESIGNED	LORAIN BRIDGE
DRAWN	
CHECKED	
REVISED	
ARCHITECT	CONTRACTOR
REPUBLIC STEEL CORP.	UNION MILLS DIVISION
DRAWING NO.	30-050-6





UPSON RIBBED REINFORCING BARS	
ARCHITECT	DESIGNED
CONTRACTOR	DRAWN
	CHECKED
	REVIEWED
REPUBLIC STEEL CORP. UNITED STATES OF AMERICA	DRAWING NO. 3115788













SECTION I

SECTION II

SECTION III

SECTION IV

SECTION V

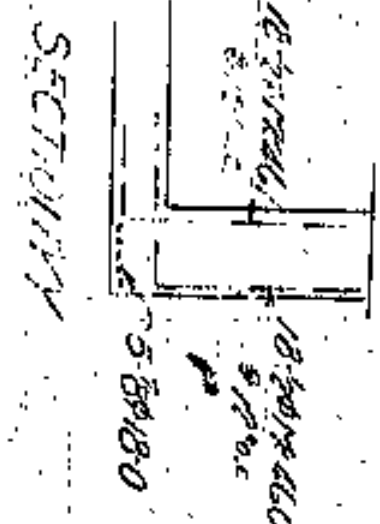
EAST APPROACH  
 NORTH LINE & TOP SLAB

UPSON RIBBED REINFORCING BARS

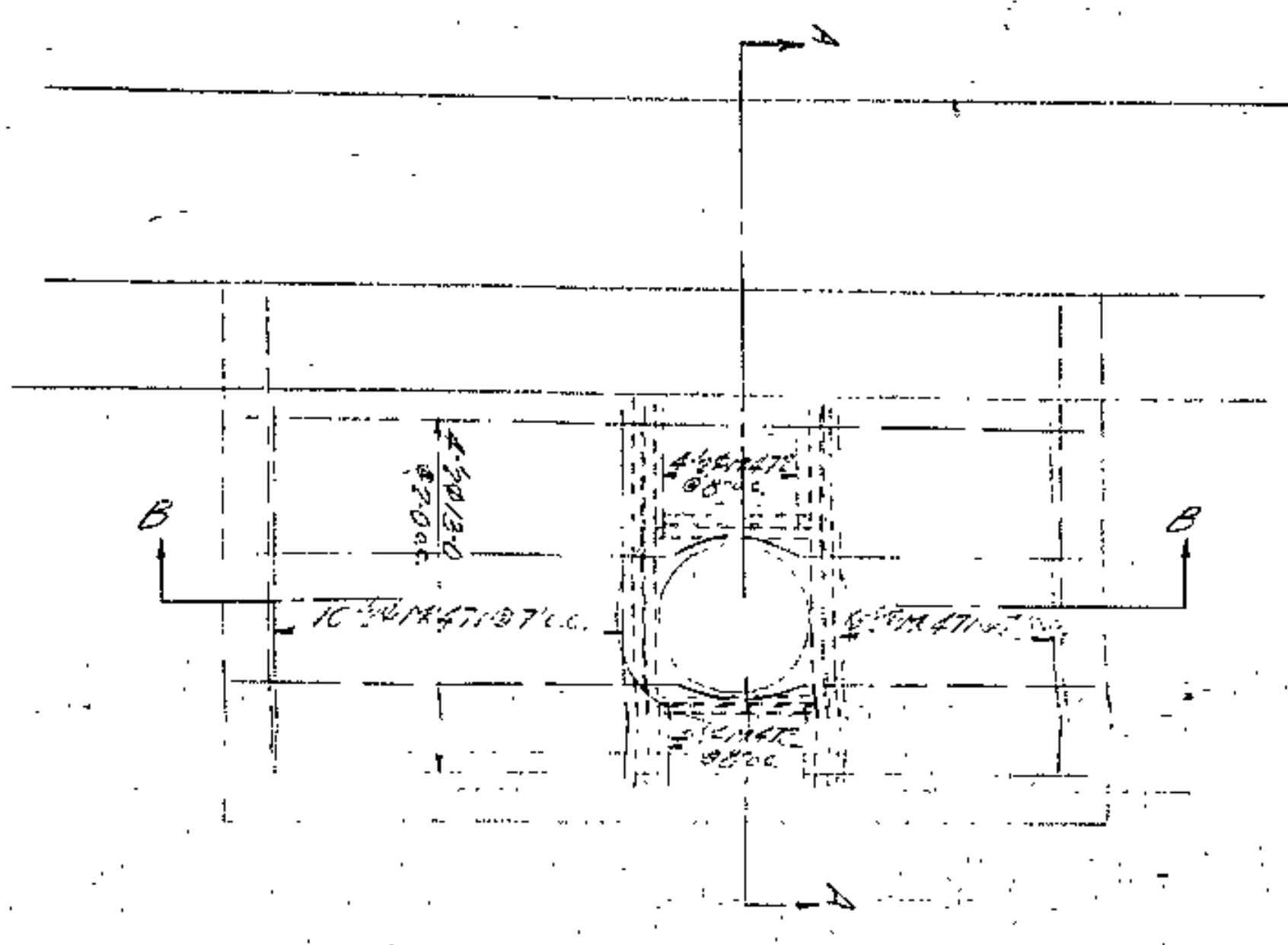
DESIGNED	
CHECKED	
REVISIONS	
ARCHITECT	
CONTRACTOR	
REPUBLIC STEEL CORP. UNION MILLS DIVISION CHICAGO, ILL.	DRAWING NO. 31-001

551828607  
 9-5045-004  
 11-11-55

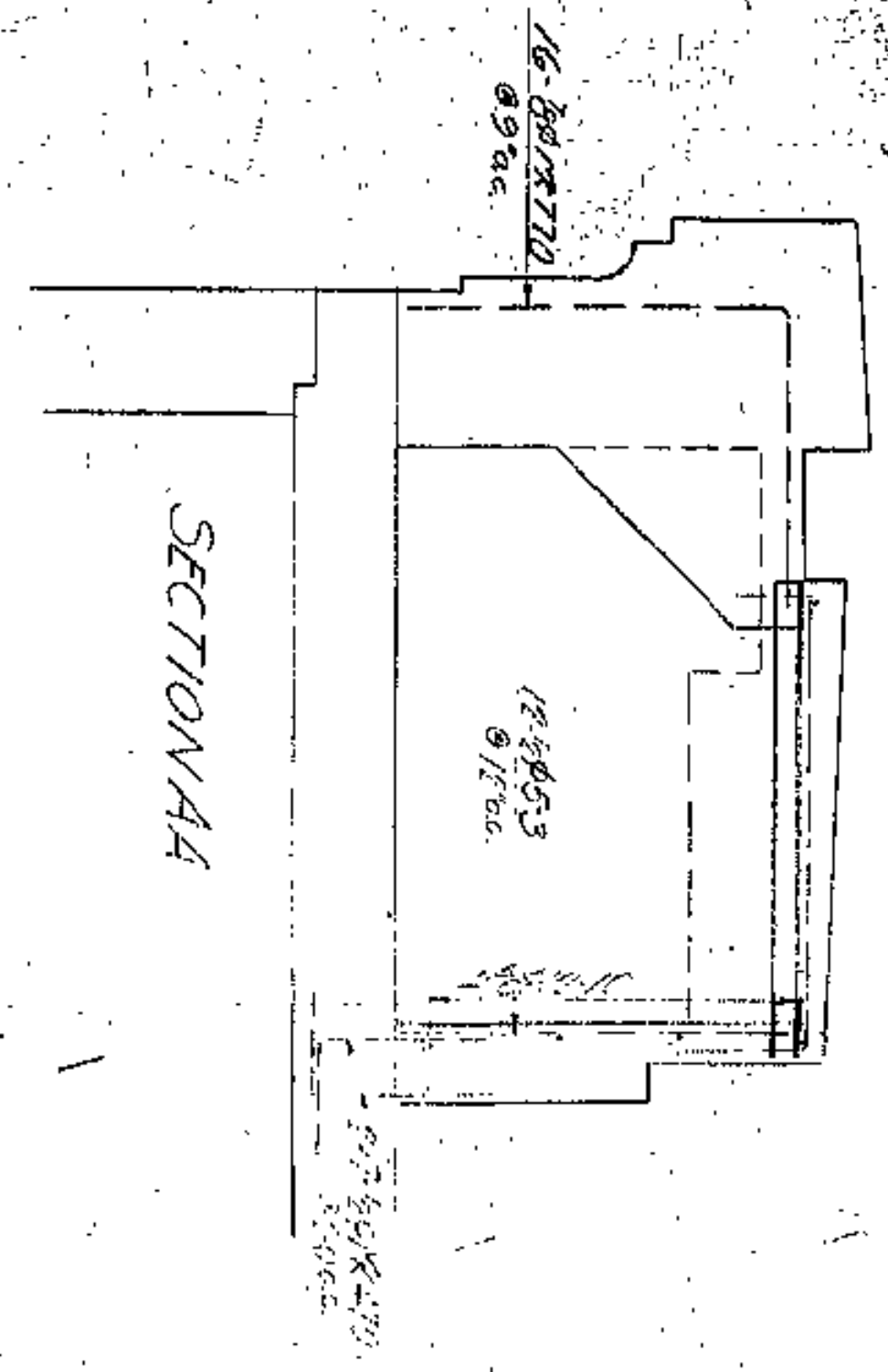
SECTION II  
 2-14  
 30-02  
 5-01446



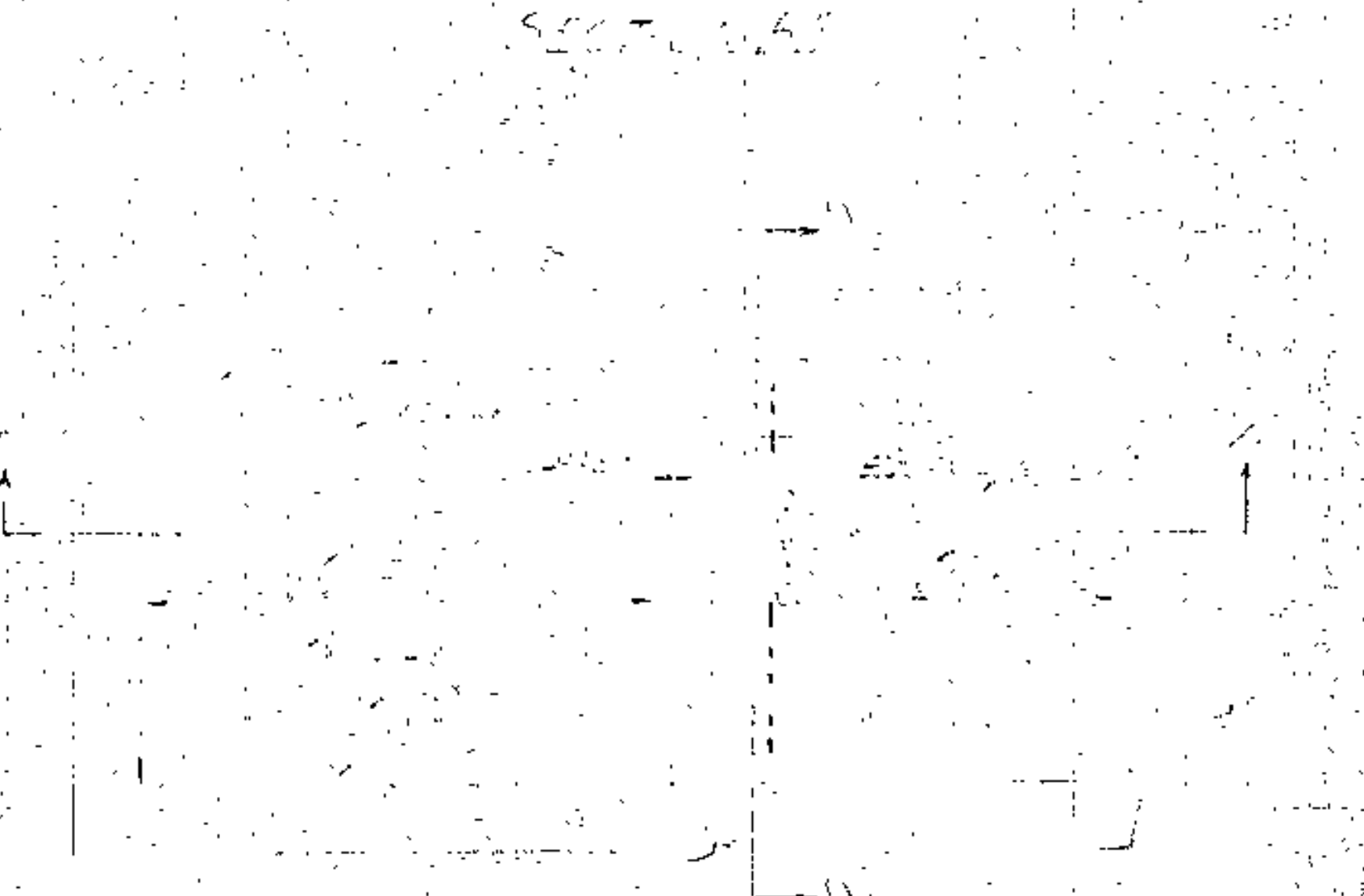




SPRICE CHAMBER SOUTH SIDE



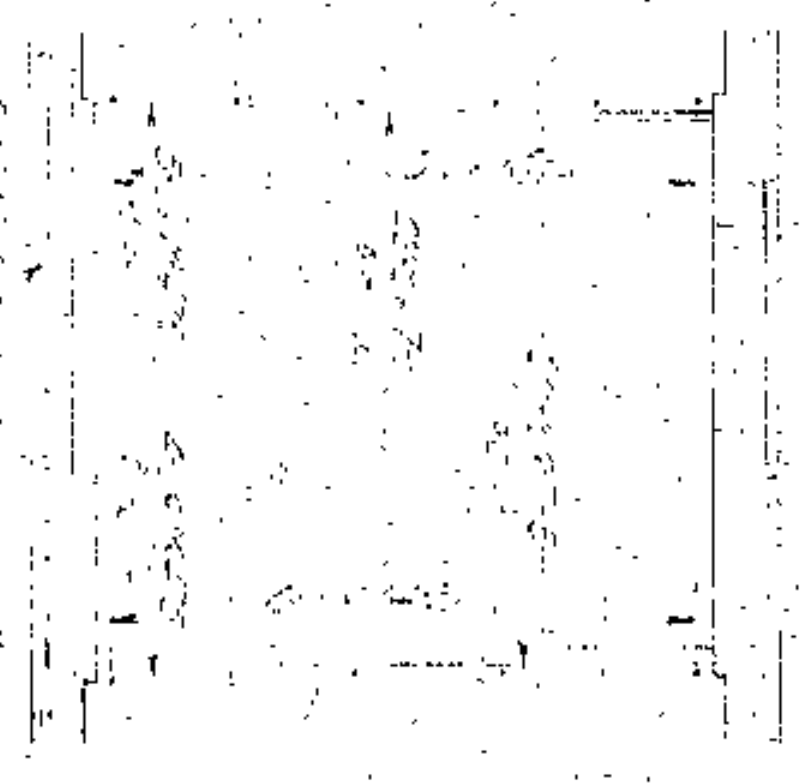
SECTION A-A



SECTION A-A

SEE

16-#6@27"	18"
12-#6@53"	18"
10-#6@57"	18"
8-#6@63"	18"
6-#6@70"	18"
4-#6@77"	18"
2-#6@85"	18"



EAST ELEVATION  
SPRICE CHAMBERS

UPSON RIBBED REINFORCING BARS

DESIGNED	REPUBLIC STEEL CORP.
DRAWN	UPSON DIVISION
CHECKED	
REVISION	
DRAWING NO.	3100100



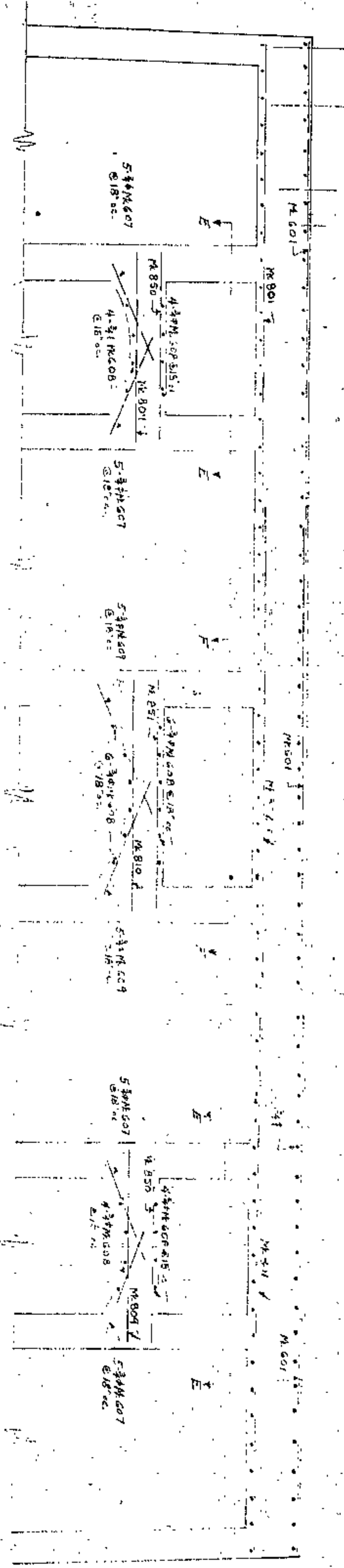




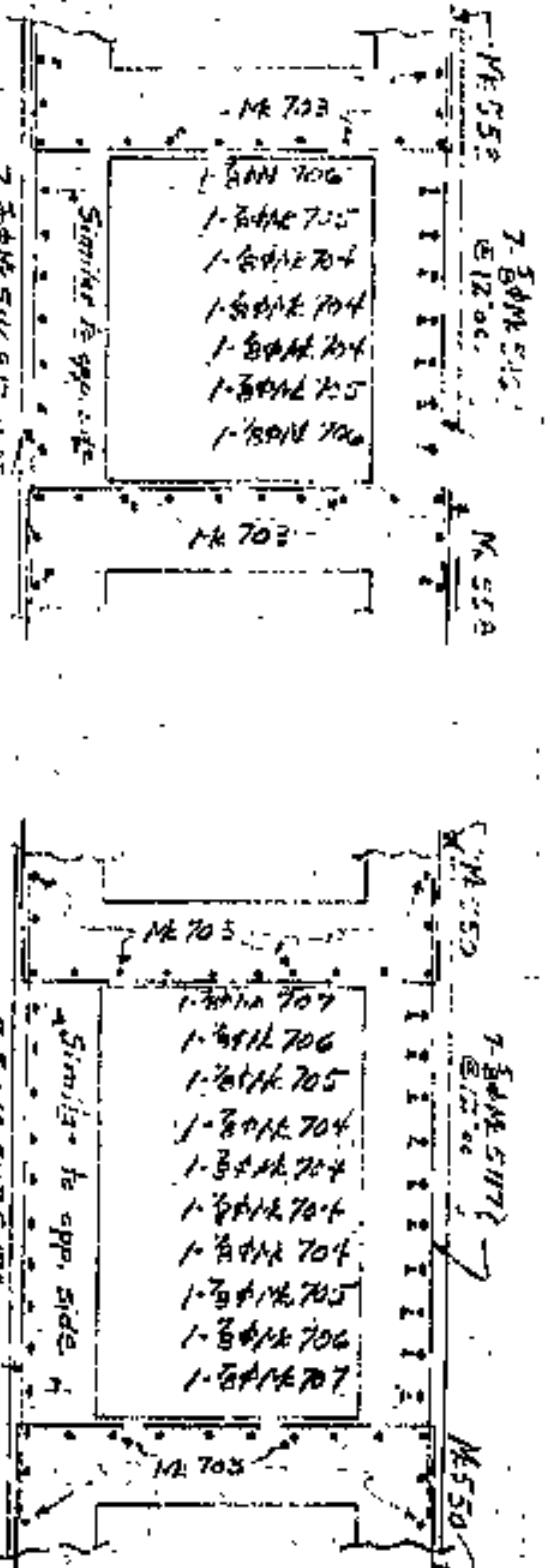


PLAN OF PER CAP

BILL OF MATERIAL	
No.	SIZE, QUANTITY, MARK, etc.
10	32-0 802
11	4-0 803
12	11-0 804
13	3-0 805
14	9-10 806
15	4-10 807
16	3-0 808
17	10-4 809
18	13-6 810
19	10-8 850
20	13-6 851
21	7-0 700
22	9-4 704
23	1-3 705
24	10-3 706
25	6-3 707
26	30-0 709
27	10-4 702
28	17-6 703
29	8-10 705
30	6-0 706
31	9-0 708
32	7-4 710
33	14-6 711
34	4-0 712

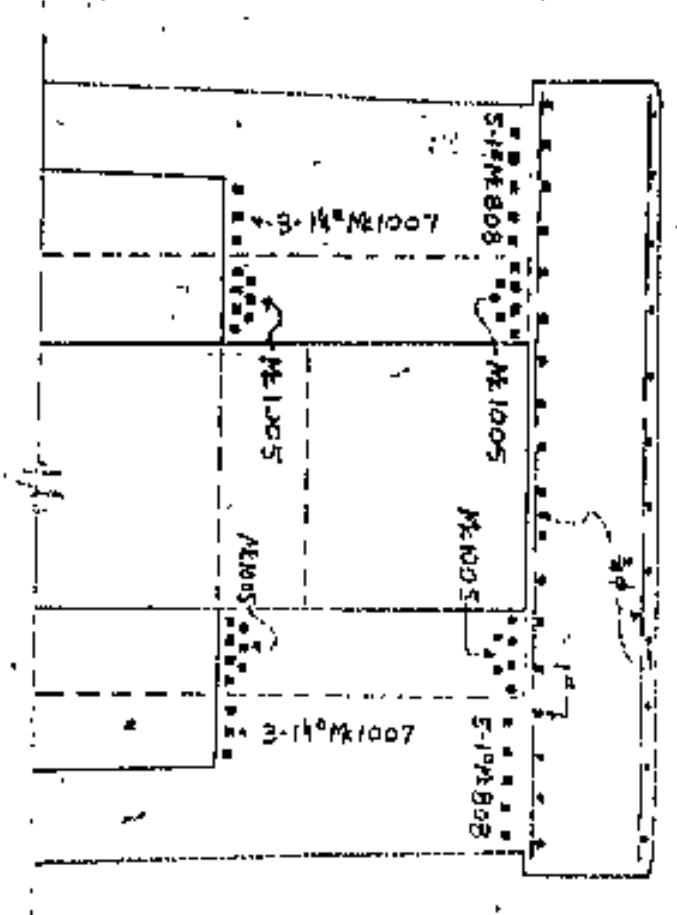


SECTION A-A

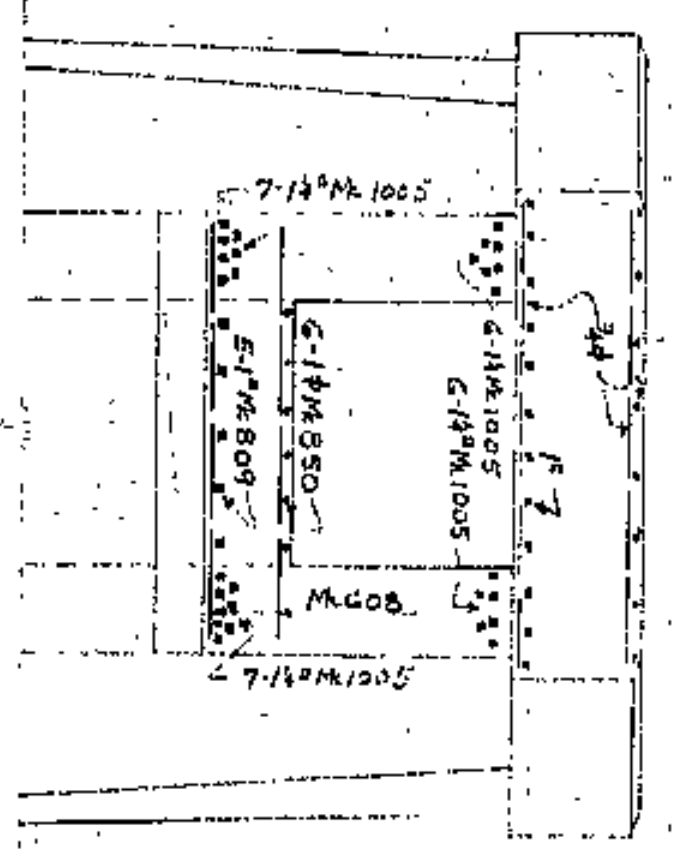


SECTION E-E

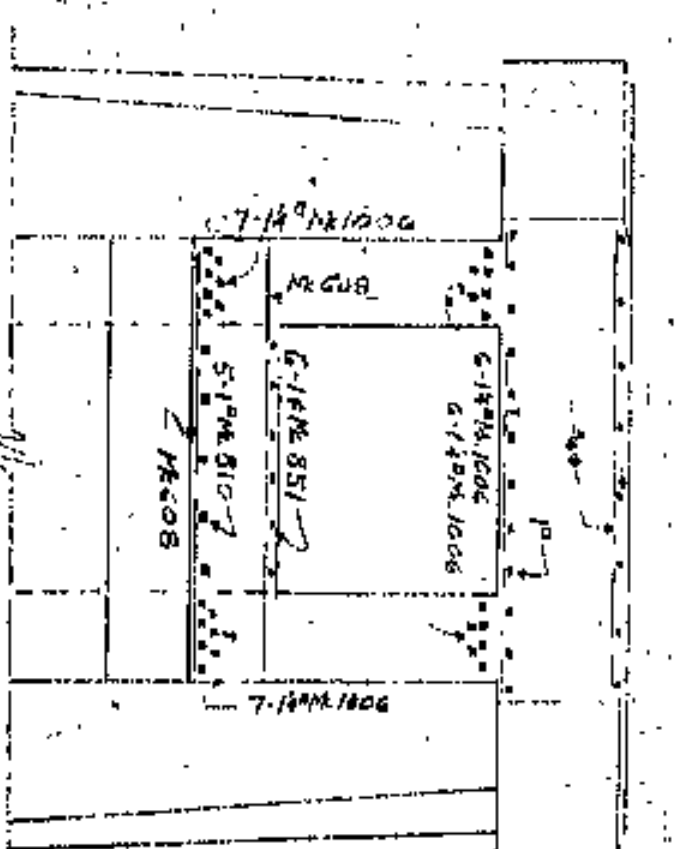
SECTION F-F



SECTION B-B



SECTION C-C



SECTION D-D

Note: Keep all reinforcing at least 4\"/>

THE PATERSON-LEITCH CO.  
CLEVELAND, OHIO

REINFORCING DETAILS  
JOB: LORAIN-CENTRAL BRIDGE  
ARCHITECT: MILBURN WATSON & FRED WALKER  
CONTRACTOR: WALSH-CONSTR. CO.  
DATE: 1-2-30







THE PATERSON LEITCH CO.  
WAREHOUSE STEEL SERVICE

THE PATERSON LEITCH CO.  
WAREHOUSE STEEL SERVICE

LORAIN CENTRAL BRIDGE  
WALSH CONCRETE CO.

LORAIN CENTRAL BRIDGE  
WALSH CONCRETE CO.

PIERS 9-12

PIERS 9+12

BENT BARS

BENT BARS

OUR  
ORD. NO.  
CONT. NO. **E30-15**  
DATE **4-12-30**  
MADE BY **WJ**  
CHECKED BY  
REVISED

TYPE 1  
All Dimensions in Feet and  
Inches Unless Otherwise Stated

TYPE 2  
All Dimensions in Feet and  
Inches Unless Otherwise Stated

TYPE 2

BAR NO.	MARK	SIZE	LENGTH	QUANTITY
23-11-500	2	7-4	14-7-4	
23-7-500	7	7-4	14-7-4	
23-2-500	2	7-4	14-7-4	
23-4-500	4	7-4	14-7-4	
23-5-500	5	7-4	14-7-4	
23-6-500	6	7-4	14-7-4	
23-8-500	8	7-4	14-7-4	
23-9-500	9	7-4	14-7-4	
23-10-500	10	7-4	14-7-4	
23-11-500	11	7-4	14-7-4	
23-12-500	12	7-4	14-7-4	
23-13-500	13	7-4	14-7-4	
23-14-500	14	7-4	14-7-4	
23-15-500	15	7-4	14-7-4	
23-16-500	16	7-4	14-7-4	
23-17-500	17	7-4	14-7-4	
23-18-500	18	7-4	14-7-4	
23-19-500	19	7-4	14-7-4	
23-20-500	20	7-4	14-7-4	
23-21-500	21	7-4	14-7-4	
23-22-500	22	7-4	14-7-4	
23-23-500	23	7-4	14-7-4	
23-24-500	24	7-4	14-7-4	
23-25-500	25	7-4	14-7-4	
23-26-500	26	7-4	14-7-4	
23-27-500	27	7-4	14-7-4	
23-28-500	28	7-4	14-7-4	
23-29-500	29	7-4	14-7-4	
23-30-500	30	7-4	14-7-4	
23-31-500	31	7-4	14-7-4	
23-32-500	32	7-4	14-7-4	
23-33-500	33	7-4	14-7-4	
23-34-500	34	7-4	14-7-4	
23-35-500	35	7-4	14-7-4	
23-36-500	36	7-4	14-7-4	
23-37-500	37	7-4	14-7-4	
23-38-500	38	7-4	14-7-4	
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23-41-500	41	7-4	14-7-4	
23-42-500	42	7-4	14-7-4	
23-43-500	43	7-4	14-7-4	
23-44-500	44	7-4	14-7-4	
23-45-500	45	7-4	14-7-4	
23-46-500	46	7-4	14-7-4	
23-47-500	47	7-4	14-7-4	
23-48-500	48	7-4	14-7-4	
23-49-500	49	7-4	14-7-4	
23-50-500	50	7-4	14-7-4	

BAR NO.	MARK	SIZE	LENGTH	QUANTITY
15-7-570	2	3-2	9-4-3-2	
15-8-570	3	3-2	9-4-3-2	
15-9-570	3	3-2	9-4-3-2	
15-10-570	2	3-2	9-4-3-2	
15-11-570	2	3-2	9-4-3-2	
15-12-570	2	3-2	9-4-3-2	
15-13-570	2	3-2	9-4-3-2	
15-14-570	2	3-2	9-4-3-2	
15-15-570	2	3-2	9-4-3-2	
15-16-570	2	3-2	9-4-3-2	
15-17-570	2	3-2	9-4-3-2	
15-18-570	2	3-2	9-4-3-2	
15-19-570	2	3-2	9-4-3-2	
15-20-570	2	3-2	9-4-3-2	
15-21-570	2	3-2	9-4-3-2	
15-22-570	2	3-2	9-4-3-2	
15-23-570	2	3-2	9-4-3-2	
15-24-570	2	3-2	9-4-3-2	
15-25-570	2	3-2	9-4-3-2	
15-26-570	2	3-2	9-4-3-2	
15-27-570	2	3-2	9-4-3-2	
15-28-570	2	3-2	9-4-3-2	
15-29-570	2	3-2	9-4-3-2	
15-30-570	2	3-2	9-4-3-2	
15-31-570	2	3-2	9-4-3-2	
15-32-570	2	3-2	9-4-3-2	
15-33-570	2	3-2	9-4-3-2	
15-34-570	2	3-2	9-4-3-2	
15-35-570	2	3-2	9-4-3-2	
15-36-570	2	3-2	9-4-3-2	
15-37-570	2	3-2	9-4-3-2	
15-38-570	2	3-2	9-4-3-2	
15-39-570	2	3-2	9-4-3-2	
15-40-570	2	3-2	9-4-3-2	
15-41-570	2	3-2	9-4-3-2	
15-42-570	2	3-2	9-4-3-2	
15-43-570	2	3-2	9-4-3-2	
15-44-570	2	3-2	9-4-3-2	
15-45-570	2	3-2	9-4-3-2	
15-46-570	2	3-2	9-4-3-2	
15-47-570	2	3-2	9-4-3-2	
15-48-570	2	3-2	9-4-3-2	
15-49-570	2	3-2	9-4-3-2	
15-50-570	2	3-2	9-4-3-2	

BENT BARS SHEET NO. 4

THE PATERSON LEITCH CO.  
WAREHOUSE STEEL SERVICE

THE PATERSON LEITCH CO.  
WAREHOUSE STEEL SERVICE

LORAIN CENTRAL BRIDGE  
WALSH CONCRETE CO.

LORAIN CENTRAL BRIDGE  
WALSH CONCRETE CO.

PIERS 9-12

PIERS 9+12

BENT BARS

BENT BARS

OUR  
ORD. NO.  
CONT. NO. **E30-15**  
DATE **4-12-30**  
MADE BY **WJ**  
CHECKED BY  
REVISED

TYPE 1  
All Dimensions in Feet and  
Inches Unless Otherwise Stated

TYPE 2  
All Dimensions in Feet and  
Inches Unless Otherwise Stated

TYPE 2

BAR NO.	MARK	SIZE	LENGTH	QUANTITY
23-1-500	2	5-7	11-5-7	
23-2-500	2	5-7	11-5-7	
23-3-500	2	5-7	11-5-7	
23-4-500	2	5-7	11-5-7	
23-5-500	2	5-7	11-5-7	
23-6-500	2	5-7	11-5-7	
23-7-500	2	5-7	11-5-7	
23-8-500	2	5-7	11-5-7	
23-9-500	2	5-7	11-5-7	
23-10-500	2	5-7	11-5-7	
23-11-500	2	5-7	11-5-7	
23-12-500	2	5-7	11-5-7	
23-13-500	2	5-7	11-5-7	
23-14-500	2	5-7	11-5-7	
23-15-500	2	5-7	11-5-7	
23-16-500	2	5-7	11-5-7	
23-17-500	2	5-7	11-5-7	
23-18-500	2	5-7	11-5-7	
23-19-500	2	5-7	11-5-7	
23-20-500	2	5-7	11-5-7	
23-21-500	2	5-7	11-5-7	
23-22-500	2	5-7	11-5-7	
23-23-500	2	5-7	11-5-7	
23-24-500	2	5-7	11-5-7	
23-25-500	2	5-7	11-5-7	
23-26-500	2	5-7	11-5-7	
23-27-500	2	5-7	11-5-7	
23-28-500	2	5-7	11-5-7	
23-29-500	2	5-7	11-5-7	
23-30-500	2	5-7	11-5-7	
23-31-500	2	5-7	11-5-7	
23-32-500	2	5-7	11-5-7	
23-33-500	2	5-7	11-5-7	
23-34-500	2	5-7	11-5-7	
23-35-500	2	5-7	11-5-7	
23-36-500	2	5-7	11-5-7	
23-37-500	2	5-7	11-5-7	
23-38-500	2	5-7	11-5-7	
23-39-500	2	5-7	11-5-7	
23-40-500	2	5-7	11-5-7	
23-41-500	2	5-7	11-5-7	
23-42-500	2	5-7	11-5-7	
23-43-500	2	5-7	11-5-7	
23-44-500	2	5-7	11-5-7	
23-45-500	2	5-7	11-5-7	
23-46-500	2	5-7	11-5-7	
23-47-500	2	5-7	11-5-7	
23-48-500	2	5-7	11-5-7	
23-49-500	2	5-7	11-5-7	
23-50-500	2	5-7	11-5-7	

BAR NO.	MARK	SIZE	LENGTH	QUANTITY
15-1-570	2	5-4	9-4-5-4	
15-2-570	2	5-4	9-4-5-4	
15-3-570	2	5-4	9-4-5-4	
15-4-570	2	5-4	9-4-5-4	
15-5-570	2	5-4	9-4-5-4	
15-6-570	2	5-4	9-4-5-4	
15-7-570	2	5-4	9-4-5-4	
15-8-570	2	5-4	9-4-5-4	
15-9-570	2	5-4	9-4-5-4	
15-10-570	2	5-4	9-4-5-4	
15-11-570	2	5-4	9-4-5-4	
15-12-570	2	5-4	9-4-5-4	
15-13-570	2	5-4	9-4-5-4	
15-14-570	2	5-4	9-4-5-4	
15-15-570	2	5-4	9-4-5-4	
15-16-570	2	5-4	9-4-5-4	
15-17-570	2	5-4	9-4-5-4	
15-18-570	2	5-4	9-4-5-4	
15-19-570	2	5-4	9-4-5-4	
15-20-570	2	5-4	9-4-5-4	
15-21-570	2	5-4	9-4-5-4	
15-22-570	2	5-4	9-4-5-4	
15-23-570	2	5-4	9-4-5-4	
15-24-570	2	5-4	9-4-5-4	
15-25-570	2	5-4	9-4-5-4	
15-26-570	2	5-4	9-4-5-4	
15-27-570	2	5-4	9-4-5-4	
15-28-570	2	5-4	9-4-5-4	
15-29-570	2	5-4	9-4-5-4	
15-30-570	2	5-4	9-4-5-4	
15-31-570	2	5-4	9-4-5-4	
15-32-570	2	5-4	9-4-5-4	
15-33-570	2	5-4	9-4-5-4	
15-34-570	2	5-4	9-4-5-4	
15-35-570	2	5-4	9-4-5-4	
15-36-570	2	5-4	9-4-5-4	
15-37-570	2	5-4	9-4-5-4	
15-38-570	2	5-4	9-4-5-4	
15-39-570	2	5-4	9-4-5-4	
15-40-570	2	5-4	9-4-5-4	
15-41-570	2	5-4	9-4-5-4	
15-42-570	2	5-4	9-4-5-4	
15-43-570	2	5-4	9-4-5-4	
15-44-570	2	5-4	9-4-5-4	
15-45-570	2	5-4	9-4-5-4	
15-46-570	2	5-4	9-4-5-4	
15-47-570	2	5-4	9-4-5-4	
15-48-570	2	5-4	9-4-5-4	
15-49-570	2	5-4	9-4-5-4	
15-50-570	2	5-4	9-4-5-4	

BENT BARS SHEET NO. 3



# DORRAN-CARNEGIE BRIDGE

ONTARIO STREET TO CUT BRIDGE WEST OF COLUMBUS RD.  
CITY OF CLEVELAND.

TYPICAL SECTION

ASPHALTIC CONCRETE SURFACE COURSE

SCALE 1/4" = 1'-0"

Note: Concrete base may be hand finished method of laying shall be governed by and satisfactory to the engineer.  
Stone curbs to be reset shall be placed by using the same method for base and backing as used when originally set. Any curbs needed to replace broken curbs shall be furnished by the contractor and price paid for same shall be included in unit price bid for Item 1-11. Stone Curbs Base to Line and Grade including Concrete Backing.

60 13 88 1/2 Variable

(Removal & Disposal of Existing Asphalt Surface Course)

Note: Borrow Material shall be of the Same Classification As The Existing Subgrade

(2 1/2" Hot Mixed Hot Land Asphaltic Concrete Surface Course Item 7-50)  
Using 1" Type Bleeding Course On 1/2" Binder Course  
3" Hot Mixed Hot Land Asphaltic Concrete Surface Course Item 7-50  
Using 1" Type B Wearing Course On 2" Binder Course  
Hot Mixed Hot Land Asphaltic Concrete Leveling Course Item 8-50  
Bituminous Prime Coat Item 7-30 (Sec. M-512, A.E. 3)

### Estimated Quantities (Roadway)

Item 7-30	Hot Mixed Hot Land Asphaltic Concrete Surface Course	24,545	Sq. Yds.	Item 7-50	West Bridge Abutment East to Ontario Street	4910	Gallons
Item 7-50	Hot Mixed Hot Land Asphaltic Concrete Surface Course	13,220	Sq. Yds.	Item 7-50	West Bridge Abutment West to C.U.T. Bridge	77	Lin. Ft.
Item 8-70	Portland Cement Concrete Base Course	256	Sq. Yds.	Item 8-11	Resetting Stone Curb to Line and Grade	77	Lin. Ft.
Item 8-50	Hot Mixed Hot Land Asphaltic Concrete Leveling Course	504	Cu. Yds.	Item 8-44	Borrow (Contractor to Furnish)	50	Cu. Yds.
Item 1-8	Misc. Existing Castings Adjusted to Grade	8	Each	Item B-10	Class "F" Concrete As Directed by Engineer	10	Cu. Yds.
				Item T-10	Class "D" Concrete As Directed by Engineer	10	Cu. Yds.
				Item L-8	Removal and Disposal of Existing Concrete Masonry	20	Cu. Yds.

### Estimated Quantities (Bridge Repair)

Item 5-22	Special Removal of Stone Sidewalk & Concrete Sidewalk Base	Long	Sqm	Item Special	Bags of Cement for Slab Repair	600	Bags
Item 5-22	Special Removal of Existing Stone Railing	735	Lin. Ft.				
Item 5-14	Concrete Base for Sidewalk (Class "C")	4	Sq. Yds.				
Special	Railing Reset	735	Lin. Ft.				
Special	Sidewalk Sidewalk Reset	470	Sq. Ft.				
Special	New Sidewalk Sidewalk	120	Sq. Ft.				

\* Emergency Items  
+ No specific location is noted on these plans for execution of the work under these items. After the existing surface course is removed, the contractor shall remove such concrete masonry (whether slab or bulk) as the engineer may designate and replace to the line, grade, design and full satisfaction of the engineer.

Note: The Asphalt Cement used for Items 7-50 & 8-50 shall meet the requirements of Sec. M-51 except the penetration range shall be from 70 to 100 Mechanical spreading and finishing equipment used may meet the types specified under Items 7-35, 8 or 7-50, 22

JOHN O. McWILLIAMS.  
COUNTY ENGINEER.

Approved \_\_\_\_\_  
Date \_\_\_\_\_ Land Department

Approved *David M. Baker*  
Date 7-7-44 Road Department

Approved *Walter J. ...*  
Date 7-7-44 Bridge Department

Approved \_\_\_\_\_  
Date 7-7-44 Chief Deputy

Approved *9 re 14*  
Date 7-7-44 County Engineer

## BOARD OF COMMISSIONERS.

Approved \_\_\_\_\_  
Date \_\_\_\_\_ County Commissioner

Approved \_\_\_\_\_  
Date 7-7-44 County Commissioner

Approved \_\_\_\_\_  
Date \_\_\_\_\_ County Commissioner

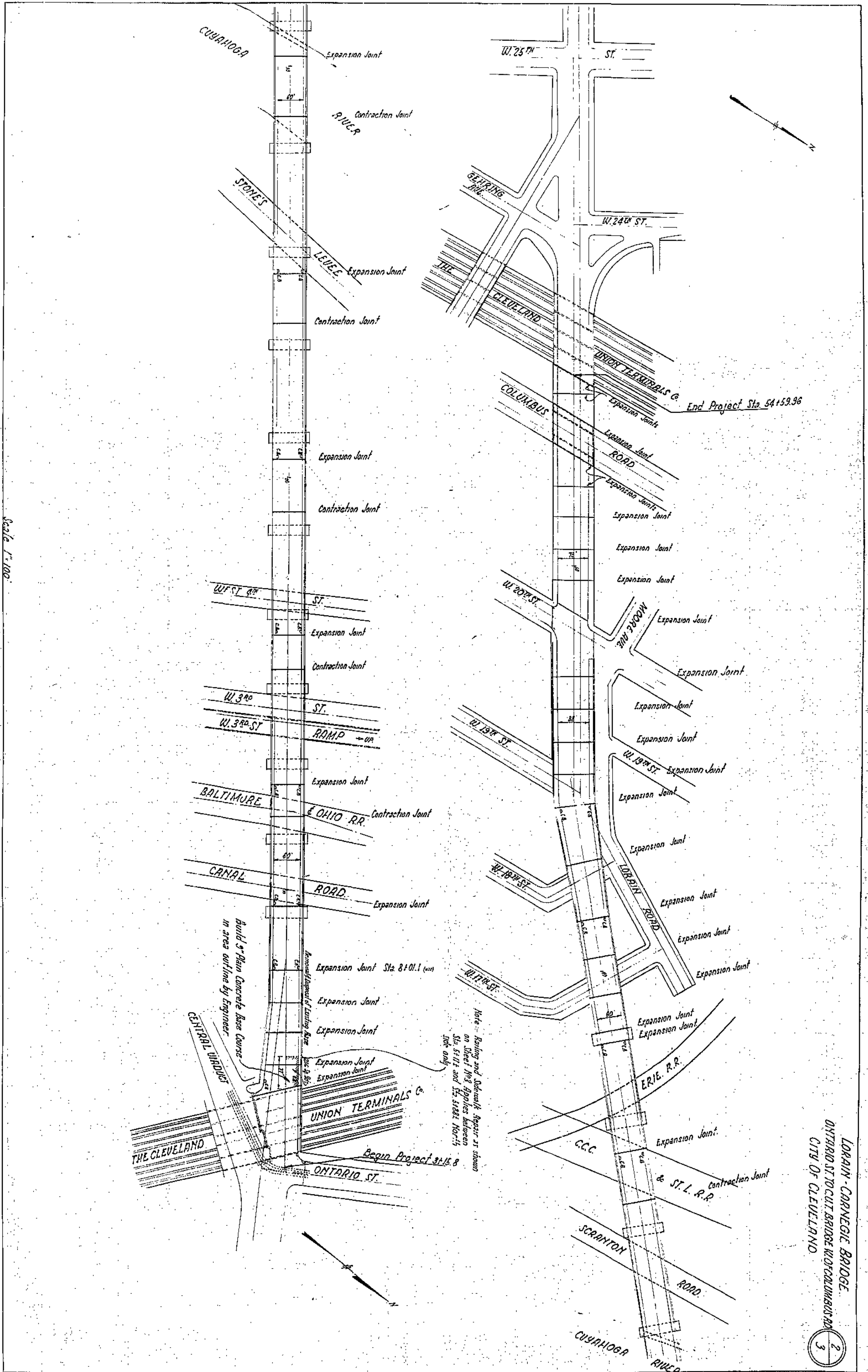
## MUNICIPALITY.

Approved by The City of Cleveland:  
By \_\_\_\_\_  
Ordinance of Consent No. \_\_\_\_\_  
Passed \_\_\_\_\_



PROFILE	DATE	BY	NO.
DESIGNED			
PLOTTED			
GRADES CHECKED			
NO. _____			
CONSTRUCTION MATERIALS			

PLAN	DATE	BY	NO.
DESIGNED			
PLOTTED			
GRADES CHECKED			
NO. _____			
CONSTRUCTION MATERIALS			



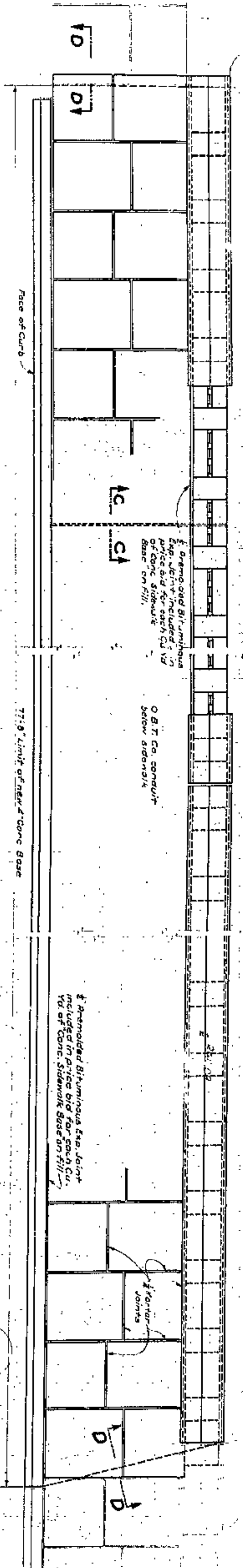
Scale 1"=100'

LORAIN-CARNEGIE BRIDGE  
 ONTARIO STREET BRIDGE WORKS  
 CITY OF CLEVELAND

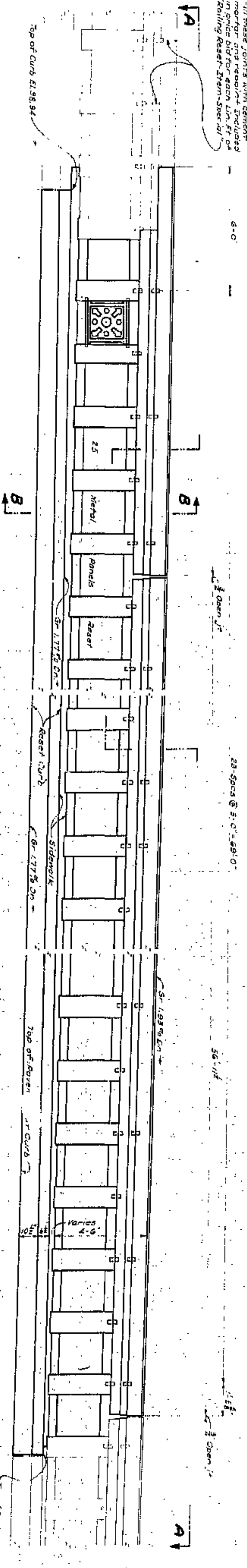


PROFILE	DATE	BY	CHKD
NO. 1	11/1/20	J.M.	J.M.
NO. 2	11/1/20	J.M.	J.M.
NO. 3	11/1/20	J.M.	J.M.

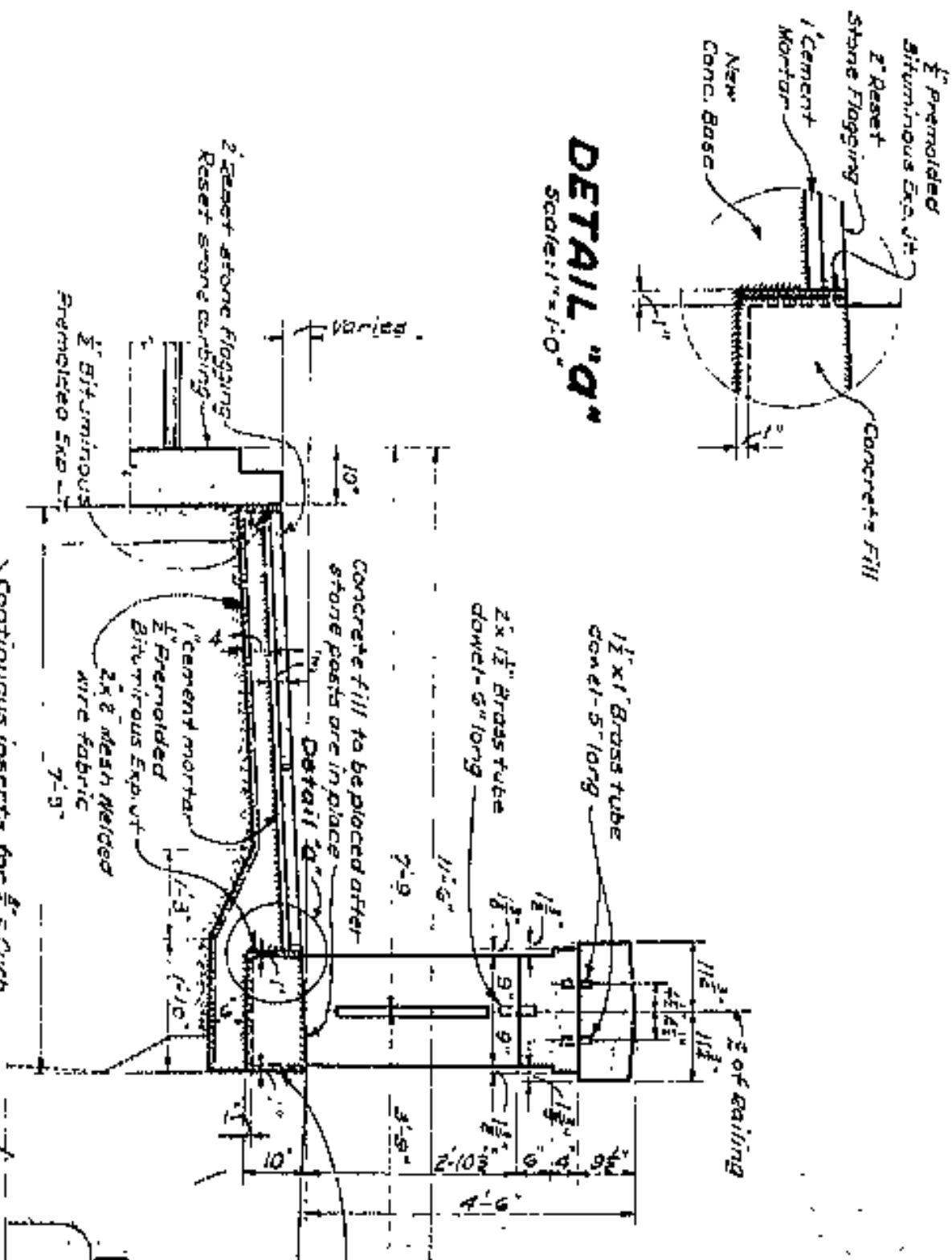
PLAN	DATE	BY	CHKD
NO. 1	11/1/20	J.M.	J.M.
NO. 2	11/1/20	J.M.	J.M.
NO. 3	11/1/20	J.M.	J.M.



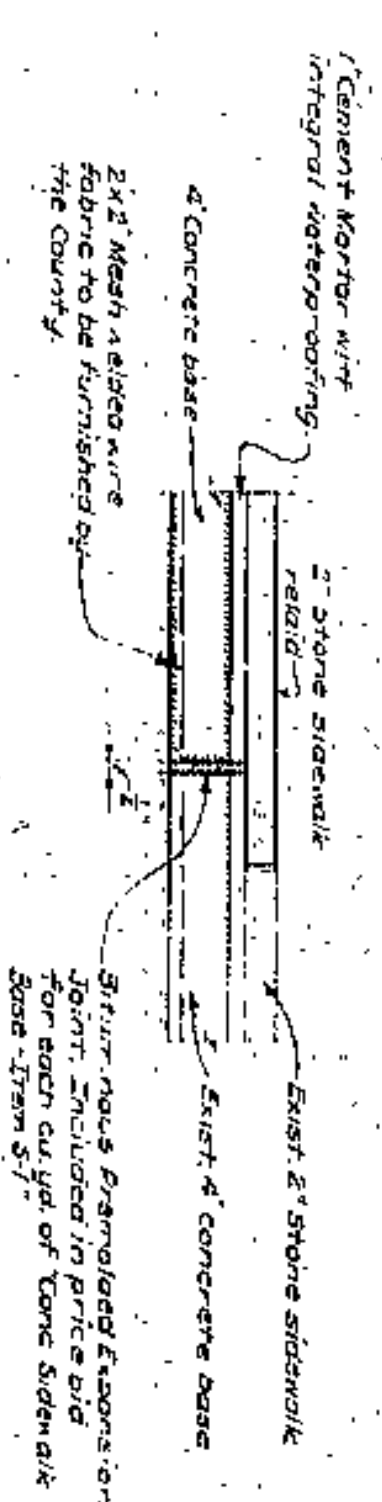
**SECTIONAL PLAN A-A**  
Scale: 1/4" = 1'-0"



**ELEVATION OF RAILING-LOOKING NORTH**  
Scale: 3/4" = 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"

LORAIN CARNEGIE BRIDGE  
ONTARIO ST. TO CUT BRIDGE  
WEST OF COLUMBUS RD  
CITY OF CLEVELAND







