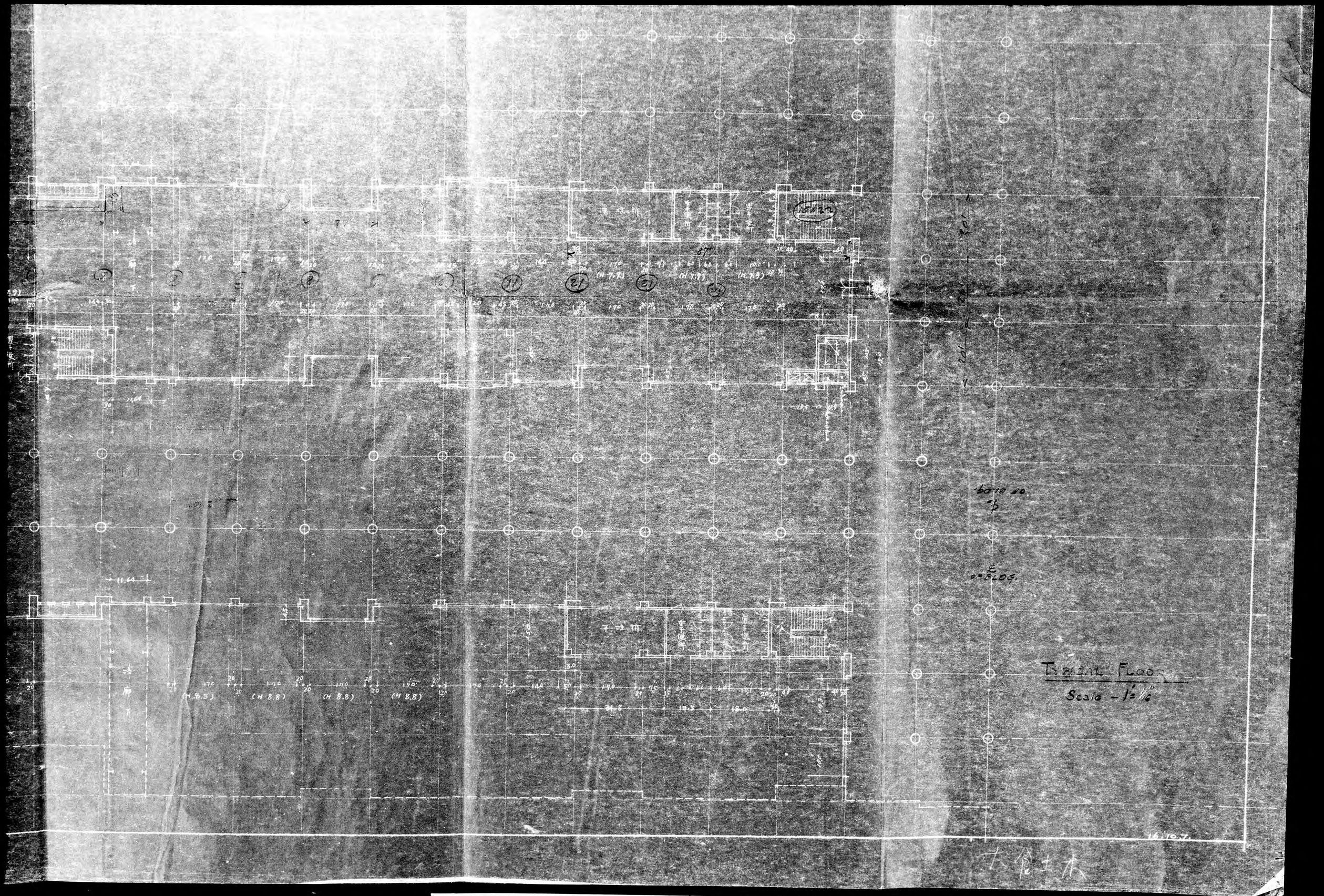
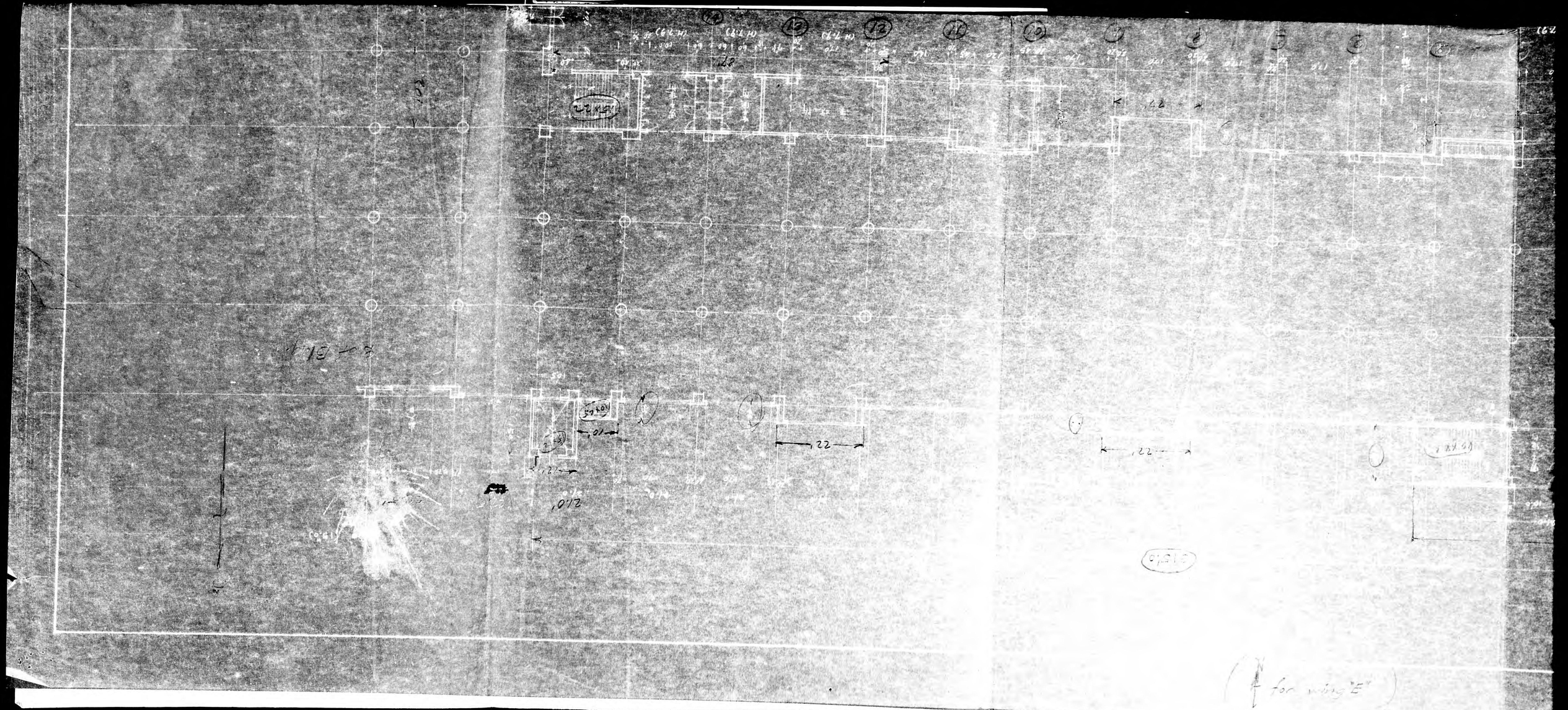
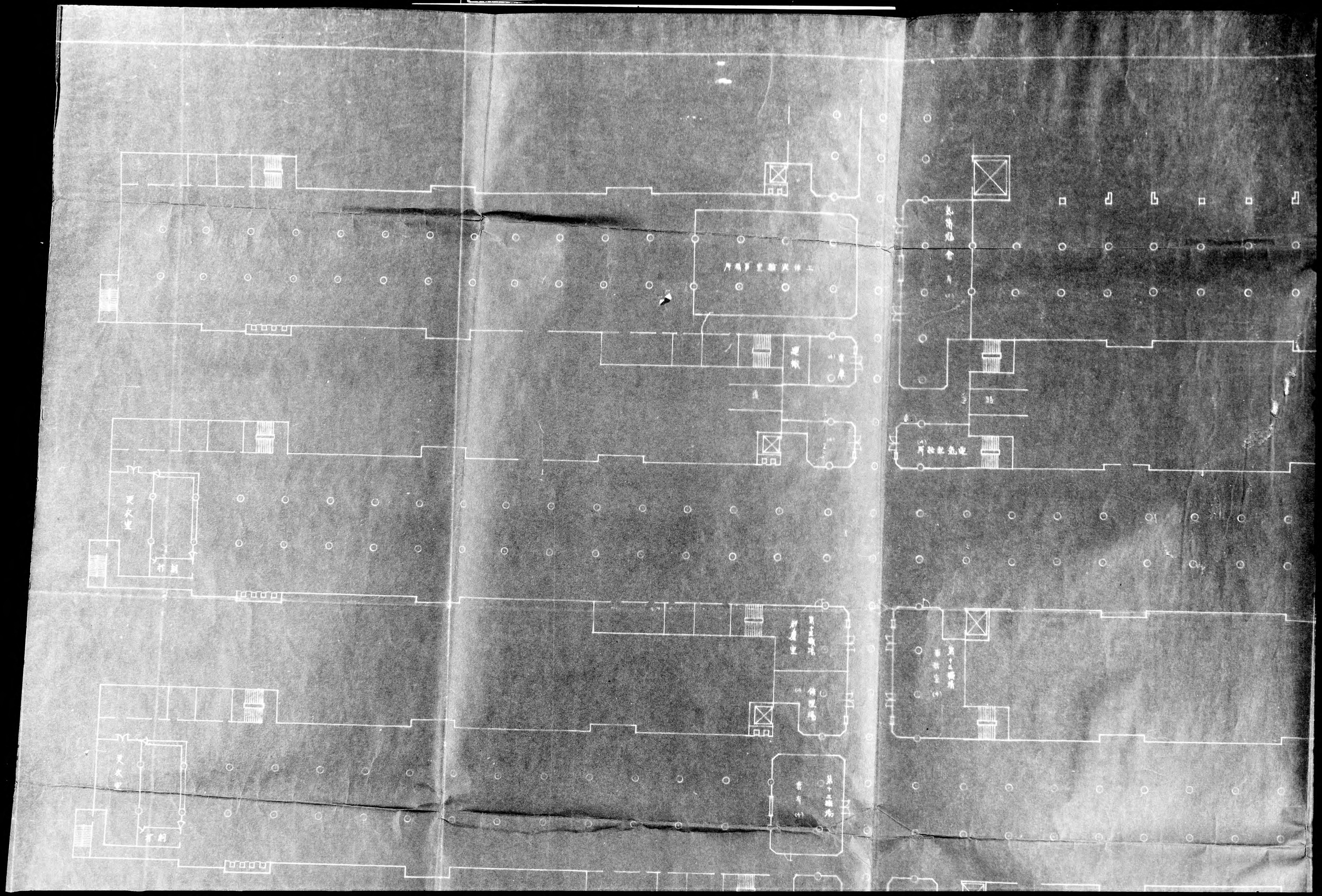

Typical Floor
Scale - 1/16"

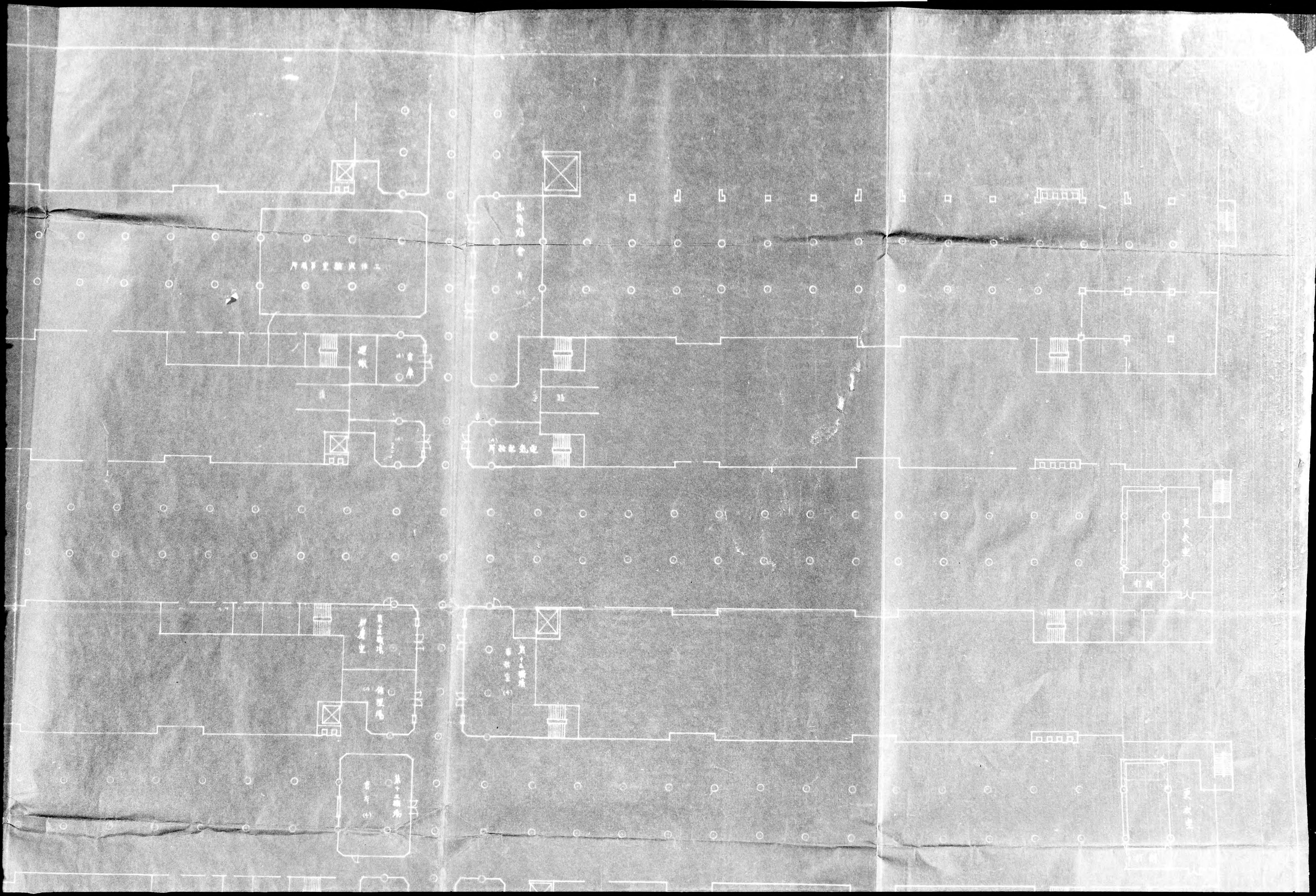
By MR-M NARA, Date 3/5/91

By HR-M NARA, Date 3/5/91

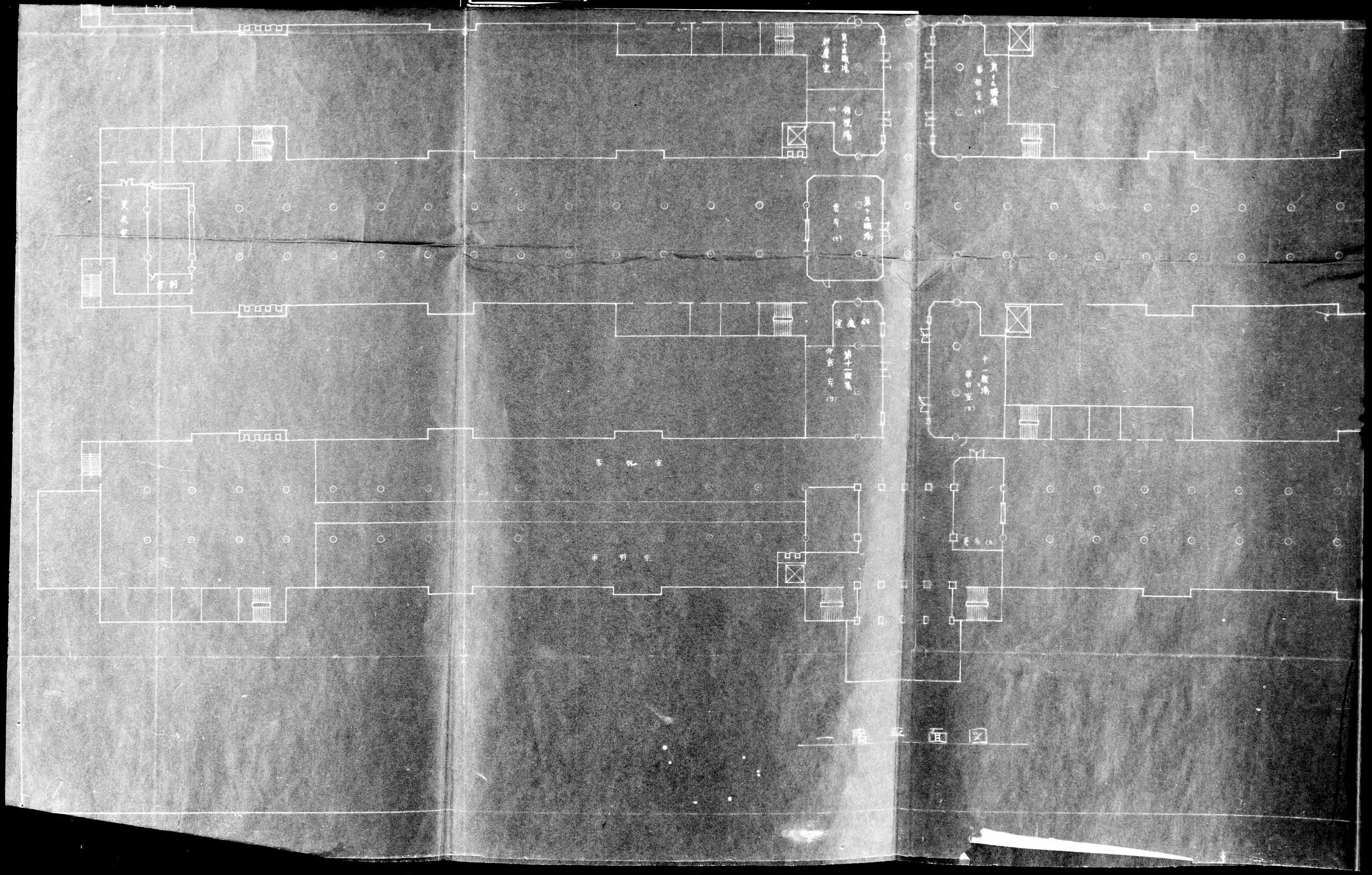


By HR-M NARA, Date 3/5/91

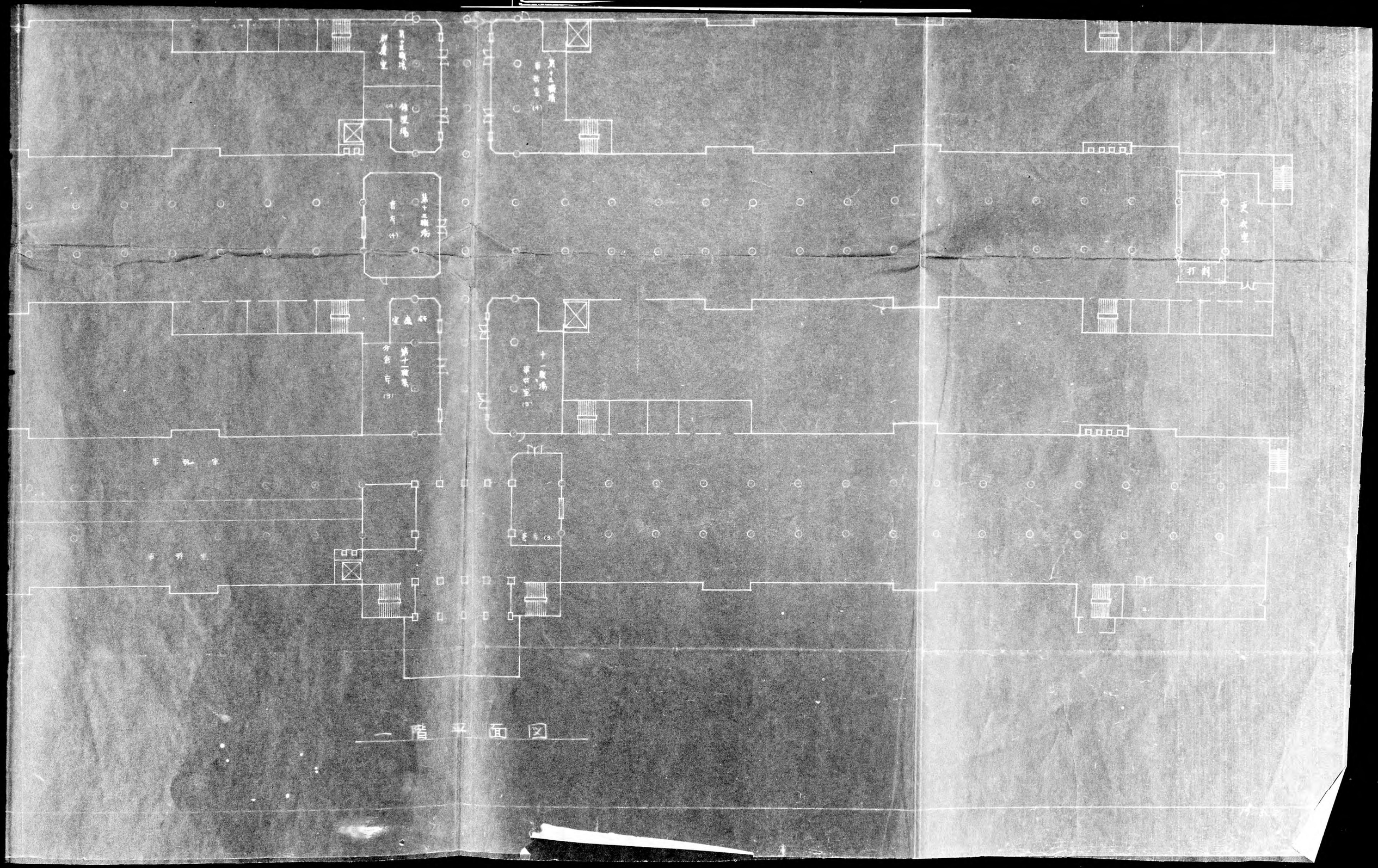


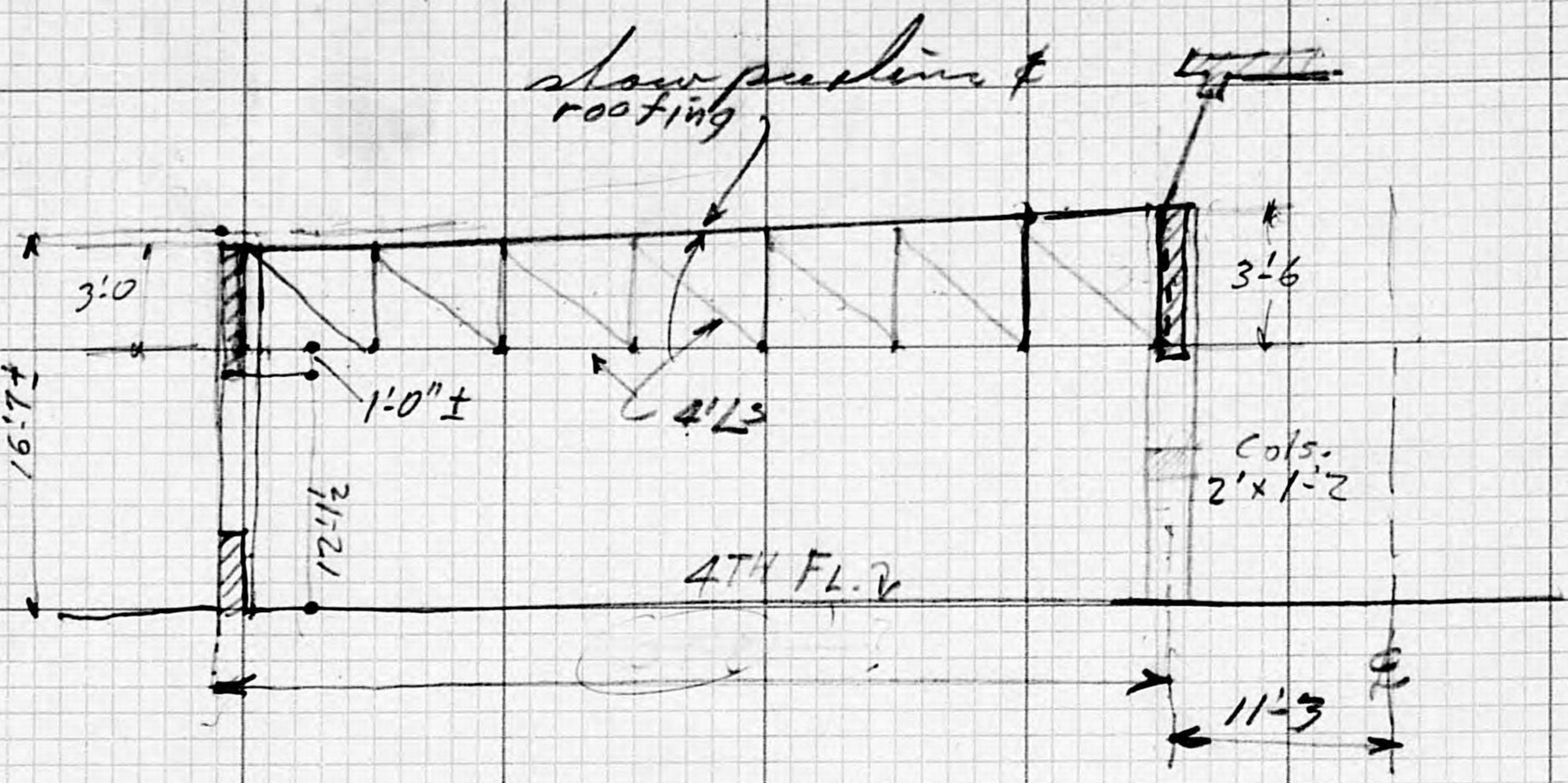


By MR-M NARA, Date 3/5/41

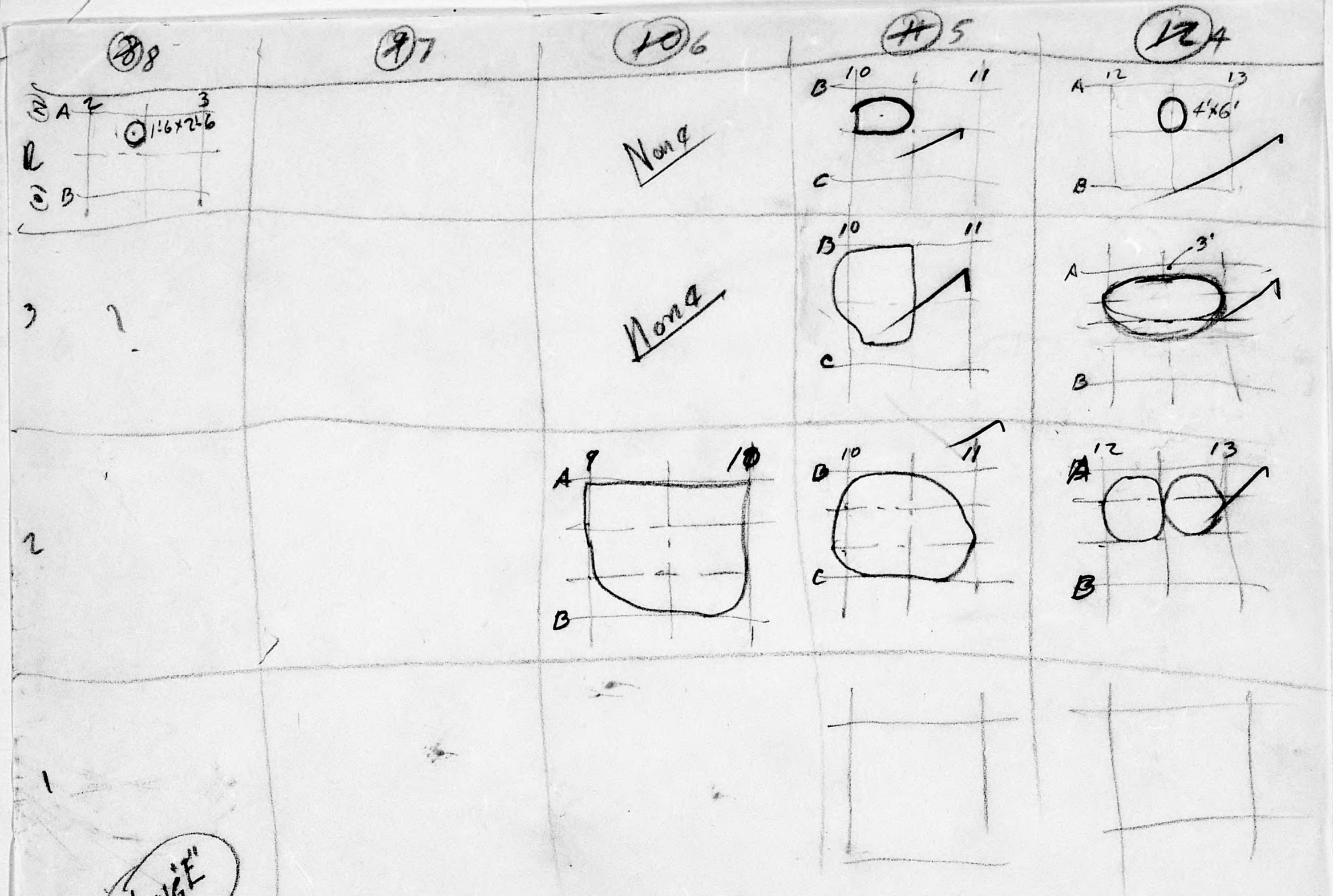


一階平面図


第十二職場
第十三職場
第十一職場
第十一職場
分倉庫
更衣室
打劃
一階平面図



SECT. THRU 4TH FL.
CENTRAL WING - BLDG #11


8 8
9 7
10 6
11 5
12 4
A 2 3
1'-6×2'-6
B
Nona
B 10 11
C
A 12 13
4'×6'
B
3
Nona
B 10 11
C
A
3'
B
2
A 9 10
B
B 10 11
C
A 12 13
B
1
WING "E"

Nakajima - Musashino Works.

Data of Strength.

Soil ——— bearing power 1.5 ton/ft² (allowable)

Steel ——— strength of reinforcing bars 20,000 lbs/in.²

" shapes (Tensile) "

(compression) "

Concrete —— mixture (cement: sand: gravel) 1 : 2 : 4 (volume)

" compressive strength (allowable) 640 lbs./in.²

(breaking) 1,920 lbs./in.²

18-21	STORAGE	Combustible
22	Pool	Water
23 (a+b)	STORAGE	Combustible
22 a	TRANSformer	

Building #	Function	Type Building	Fire Classification
1	WAREHOUSE		Combustible
2	Boiler Room		Non Combustible
3	WAREHOUSE (WASTE GOODS)		Combustible
4	MATERIAL TESTING SHOP		Combustible
5	"		
6	WARE HOUSE (RAW MAT.)		Fire Resistant
7	Unidentified Building		
8	STORAGE		Combustible
9	"		
10	"		Combustible
11	Assembly Building		Fire Resistant
12	Gear shop		Non - Combustible
13	Wood Working Shop		Combustible
14	Engine Test Cells W/C		Fire Resistant
15			
16			

1

24 October -

NAKAJIMA - 357. MUSASHINO -

CAPT. WELLS ENG.

CAPT. LEARY ENC

LT. POEHLER ENG.

T/4 - MICHIO SHIMOMURA - INTERPRET.

VISITED PLANT ABOVE DATE. INTERVIEWED a MR. KATO OF THE General Affair Division of the firm. AN A/C Engine designer. Also the Supt of Bldgs. Will have some 6/pts of building 11 (3 sty reinforced conc. assembly bldg) as well as raid data and bomb plot on Monday. 21 Oct.

Raids of 7 & 12 APRIL. 2000 # G.P. led to dispersal of machines to OSAKOWA in MAY.

RAID of 8 AUG (about 20 direct hit) plant was not in operation.

Okura - Gumm designers of building are located in west GINZA - MR. Saito.

G.F. POEHLER

Casualties

Nakajima Aircraft Co., Ltd. Musashi- plant.

Date	Employees	
	Died.	Injured.
Nov. 24. 1934	57	75
Dec. 3. "	60	21
" 27 "	8	40
Jan. 9. 1935	6	8
Feb. 17. "	80	115
Apr. 2 "	3	2
" 7 "	1	1
" 12 "	1	1
Aug. 8 "	4	3

By HR-M NARA, Date 3/6/91

Gear Shop.

The 1st Floor Machine shop (for crank shafts)
" 2nd " " " (for valve mechanism parts)
" 3rd " " (for small parts of steel)

The 1st Floor. Machine shop. (for large parts)
" 2nd " " " (for valve mechanism parts)
" 3rd " " " (for small parts)

The 1st Floor. Machine shop (for propeller shafts).
" 2nd " " " (for shafts).
" 3rd " Machine shop (for small parts of steel)

The 1st Floor. Heat Treating Shop.
" 2nd " Machine shop. (for Pistons)
" 3rd " Machine shop. (for valve mechanism parts)

Master & Art. work)
The 1st Floor Machine shop (for
" 2nd " Ware house (for parts)
" 3rd " Machine shop (for small parts of steel)

The 1st Floor. Heat Treating Shop.
" 2nd " Plating shop.
" 3rd " Jig & fixture shop.

Office

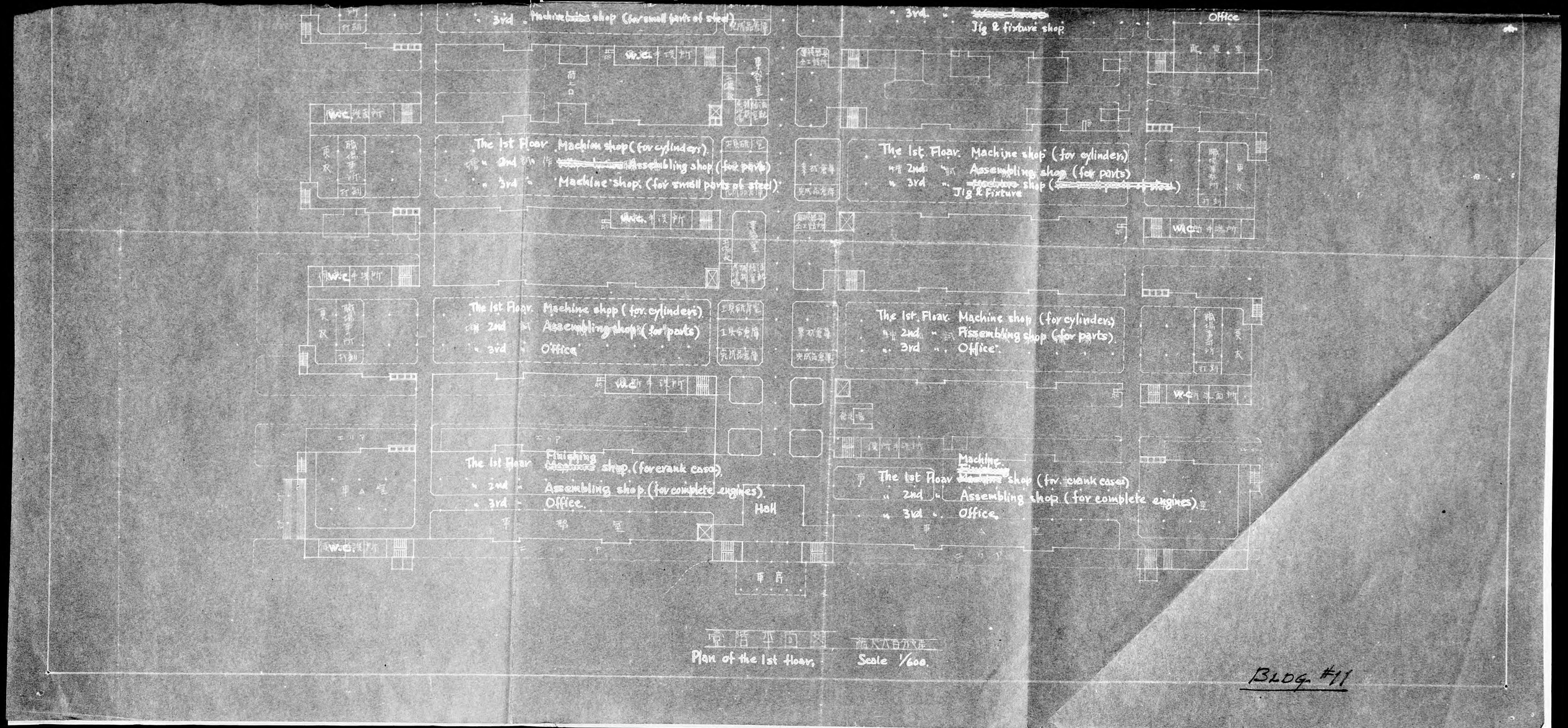
The 1st Floor. Machine shop (for cylinders).
" 2nd " Assembling shop (for parts)
" 3rd " Machine shop. (for small parts of steel).

The 1st Floor. Machine shop (for cylinders)
" 2nd " Assembling shop (for parts)
" 3rd " Jig & Fixture

The 1st Floor. Machine shop (for cylinders)
" 2nd " Assembling shop (for parts)
" 3rd " Office

The 1st Floor. Machine shop (for cylinders)
" 2nd " Assembling shop (for parts).
" 3rd " Office.

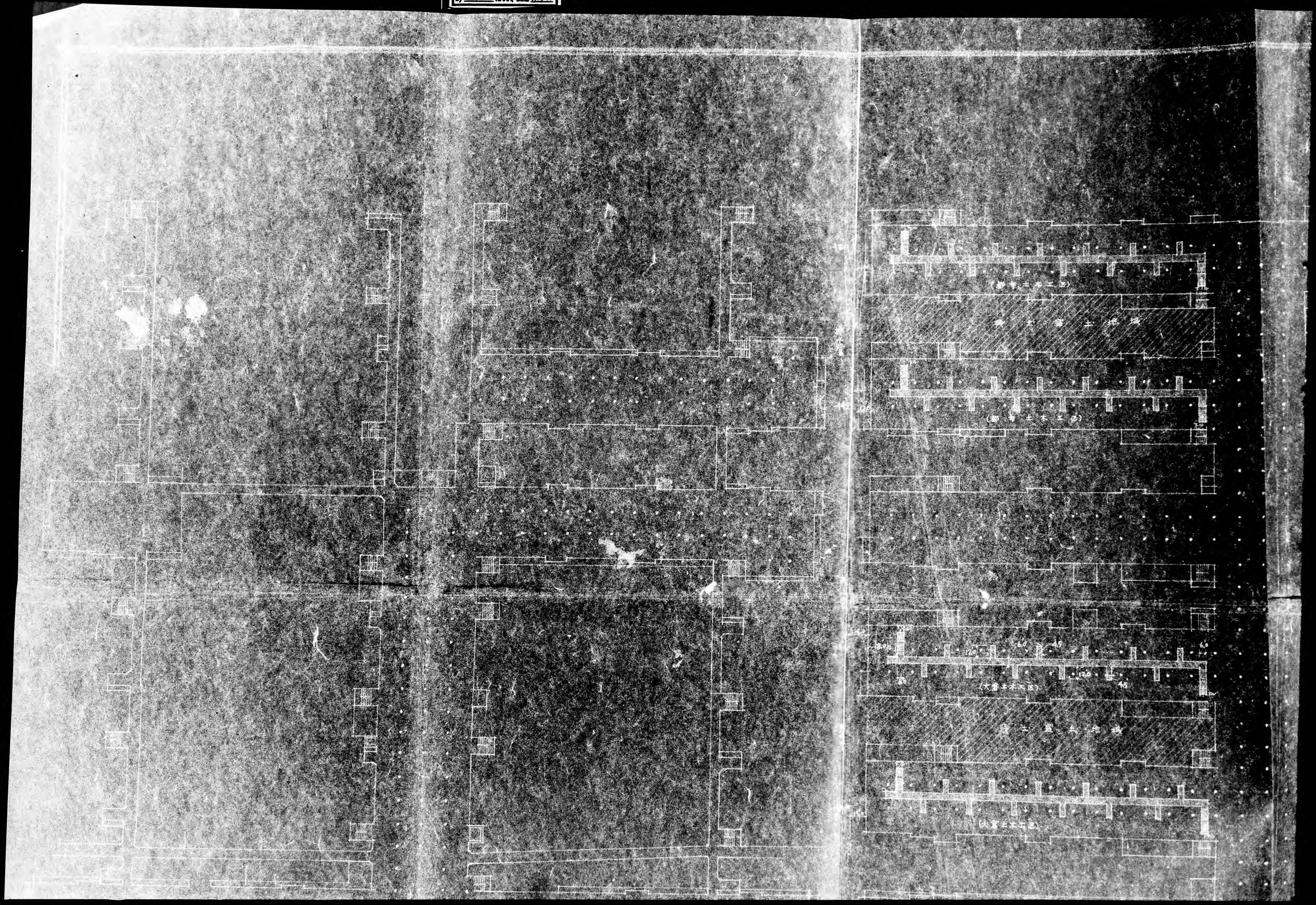
By HR-M NARA, Date 3/5/91



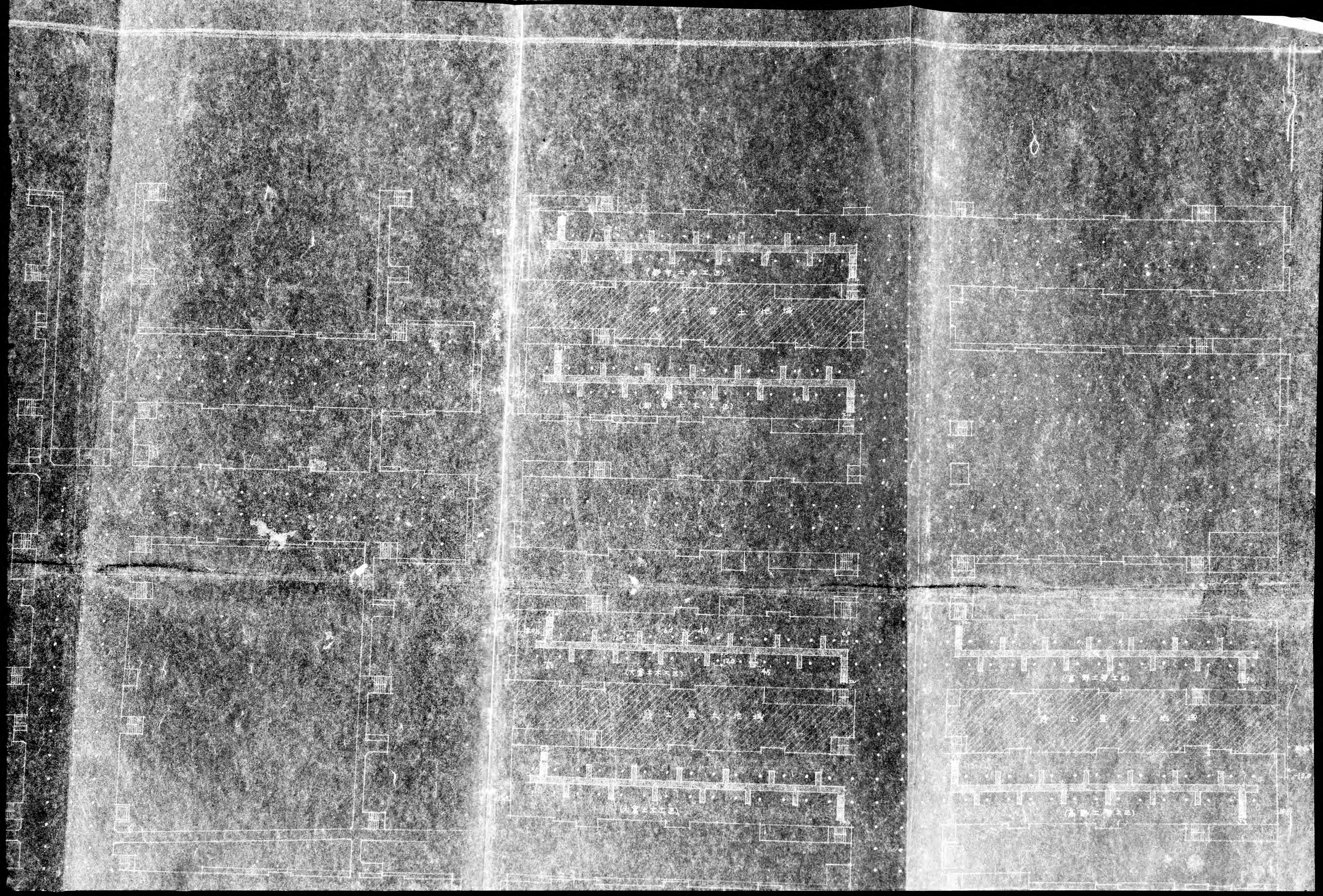
Plan of the 1st floor. Scale 1/600.

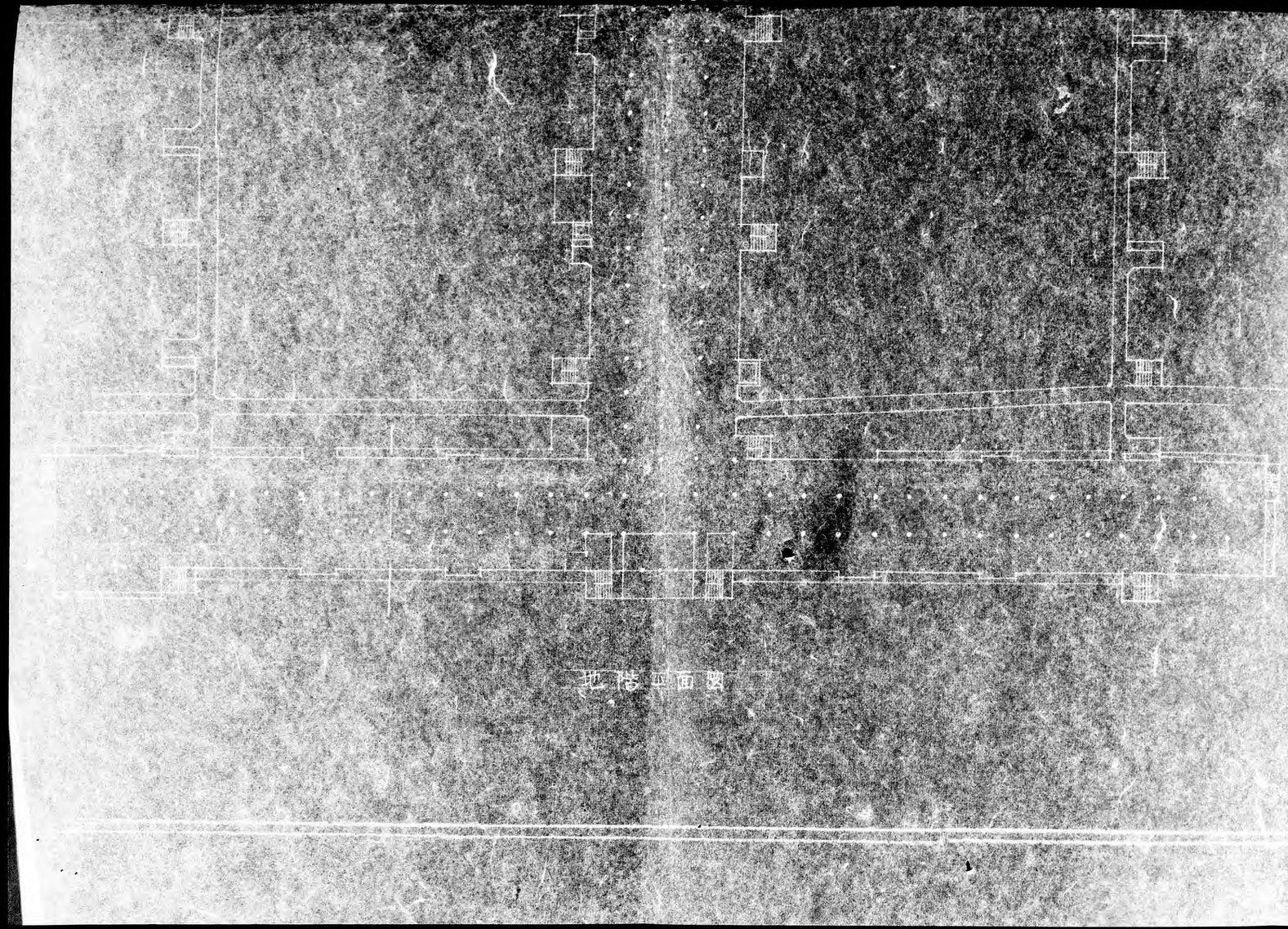
BLDG. #11

By HR-M NARA, Date 3/5/91

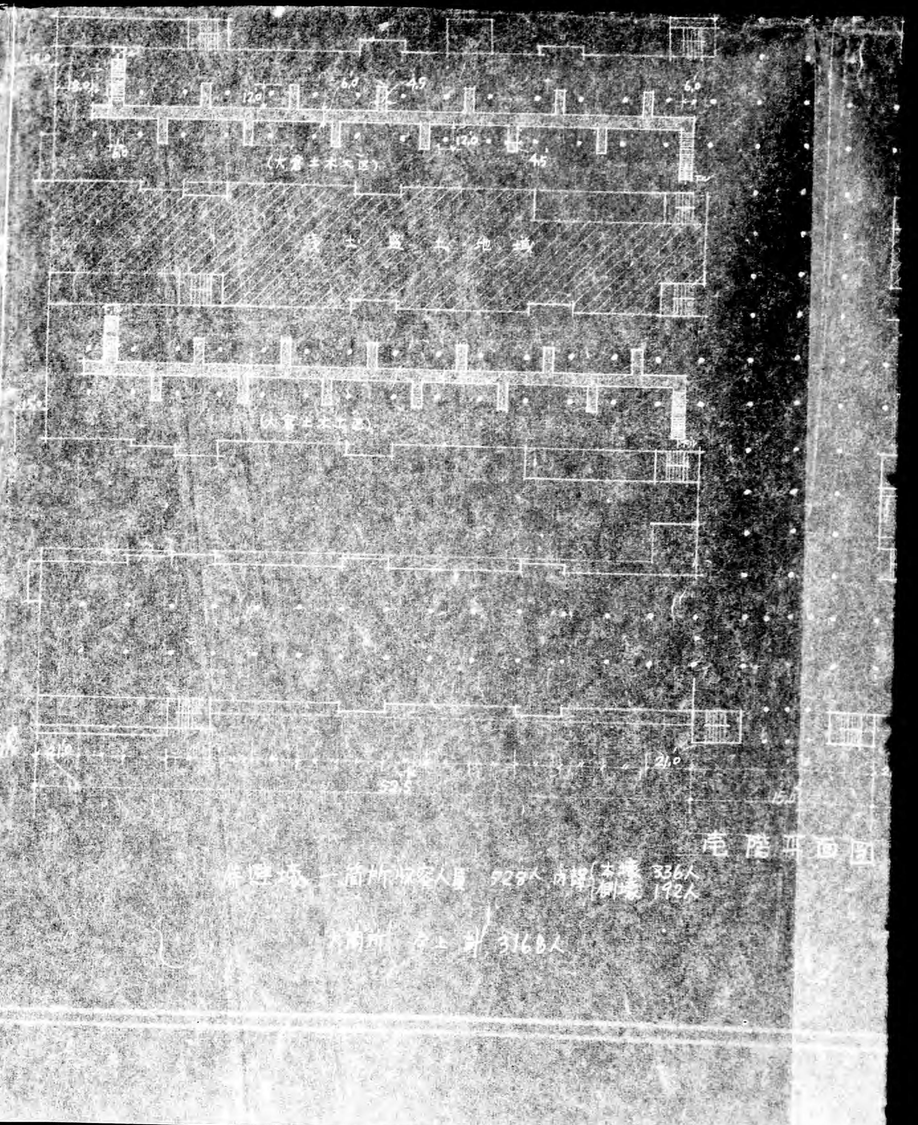


Authority NND 745021
By HR-M NARA, Date 3/5/91





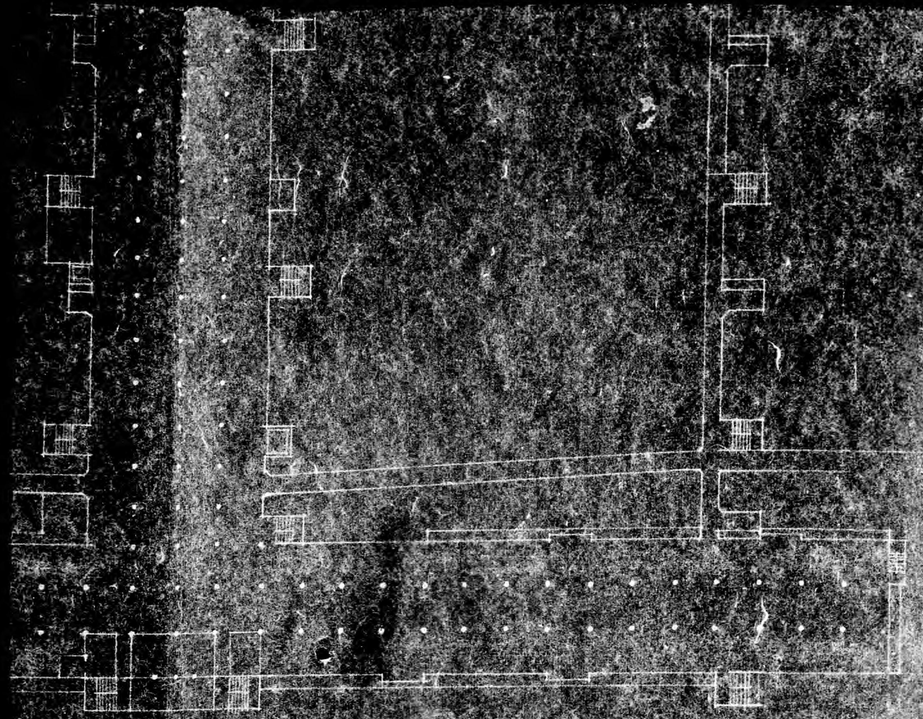
地階平面図



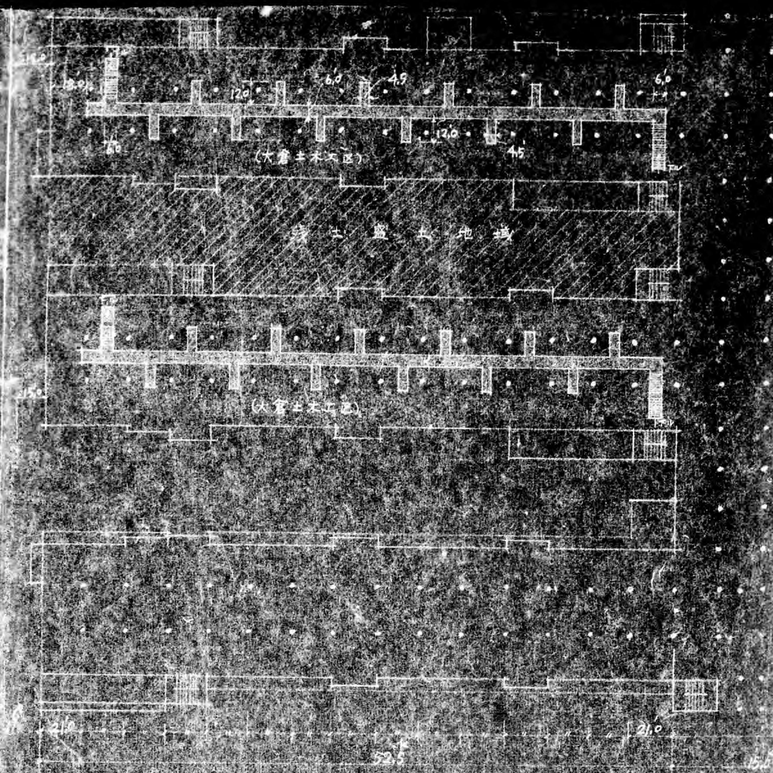
尾階平面図

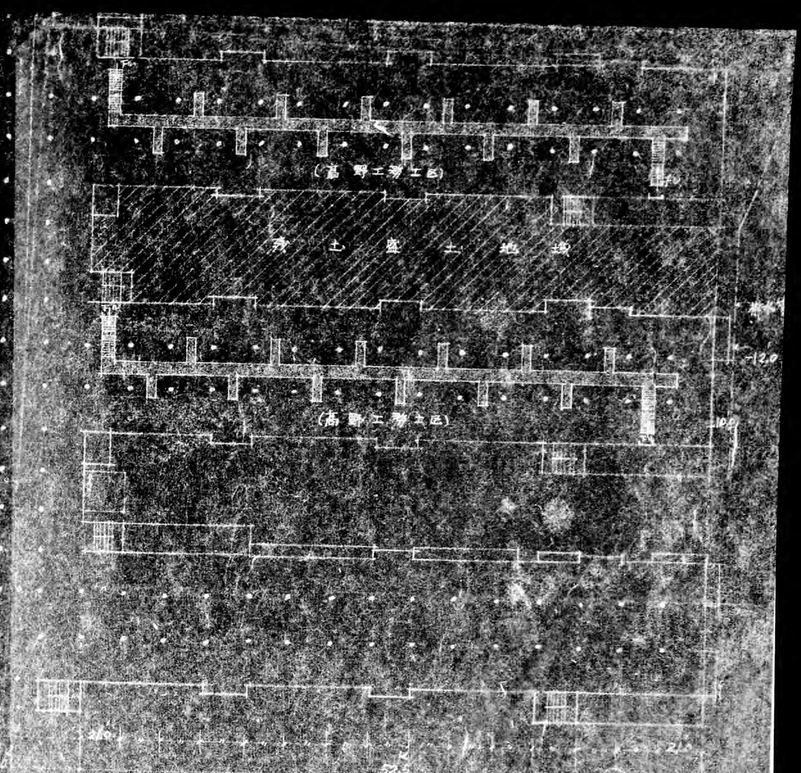
[illegible]場 一箇所収容人員 929人 内訳 [illegible] 336人 [illegible] 192人

[illegible] 3168人



地階平面図



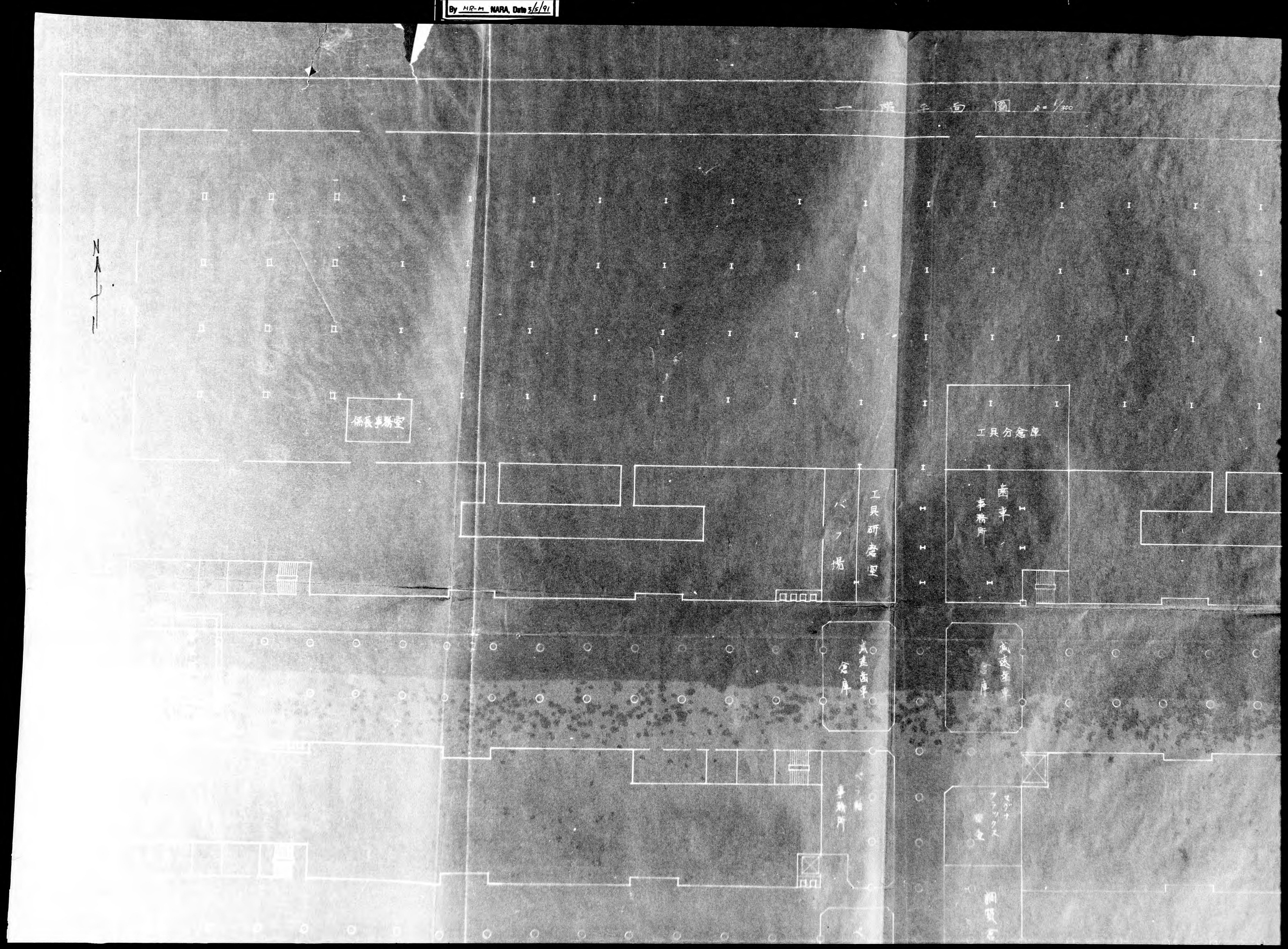


設計	203西工場(汚泥処理棟新設)		
製図	平面図	縮尺 1/200	
昭和47年2月	提出	検印	製図
大倉土木株式会社建築部			

昭47-A12-24 WWK 203/47

12.0

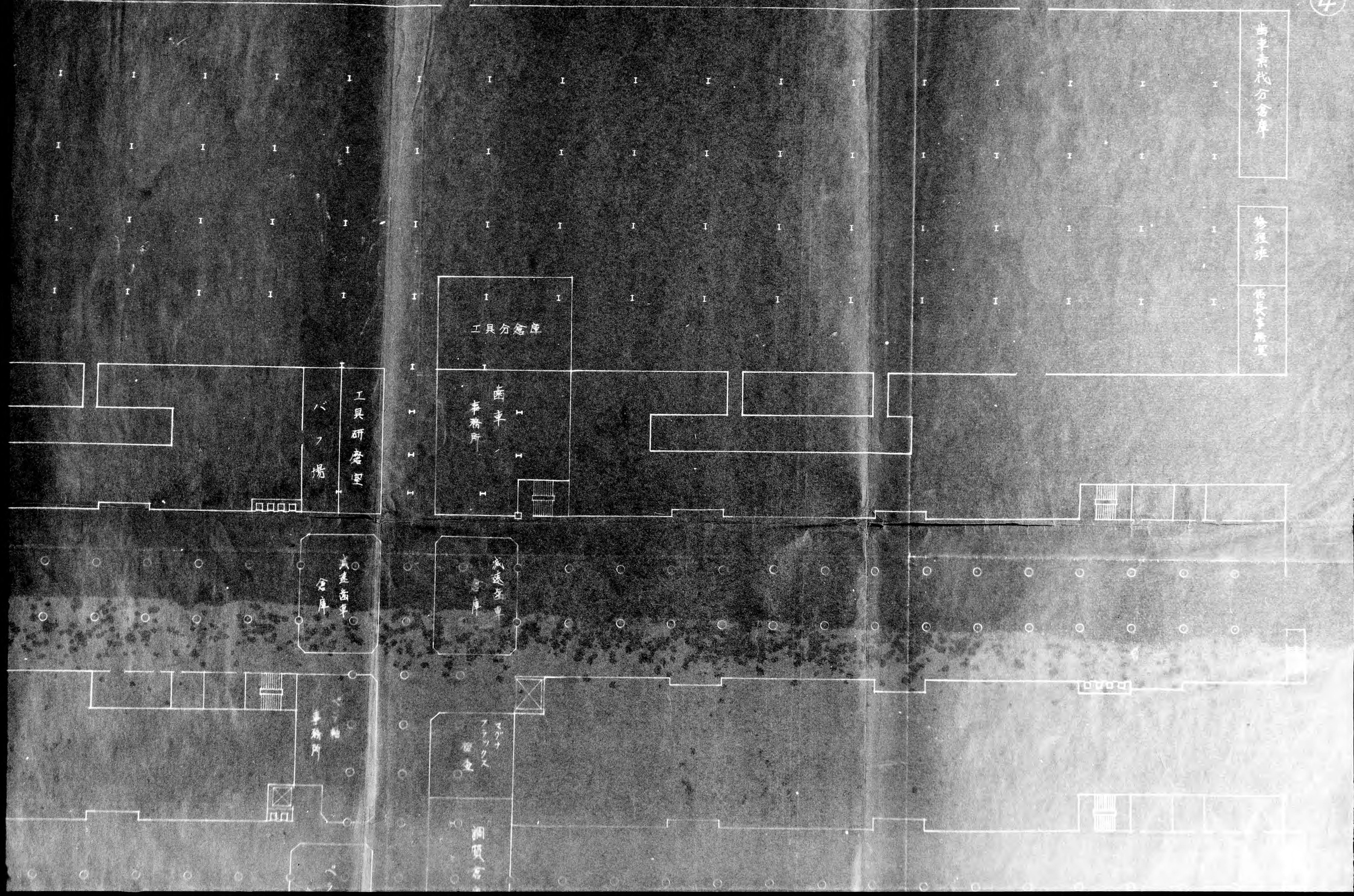
By HR-M NARA, Date 3/5/91



By HR-M NARA, Date 3/5/91

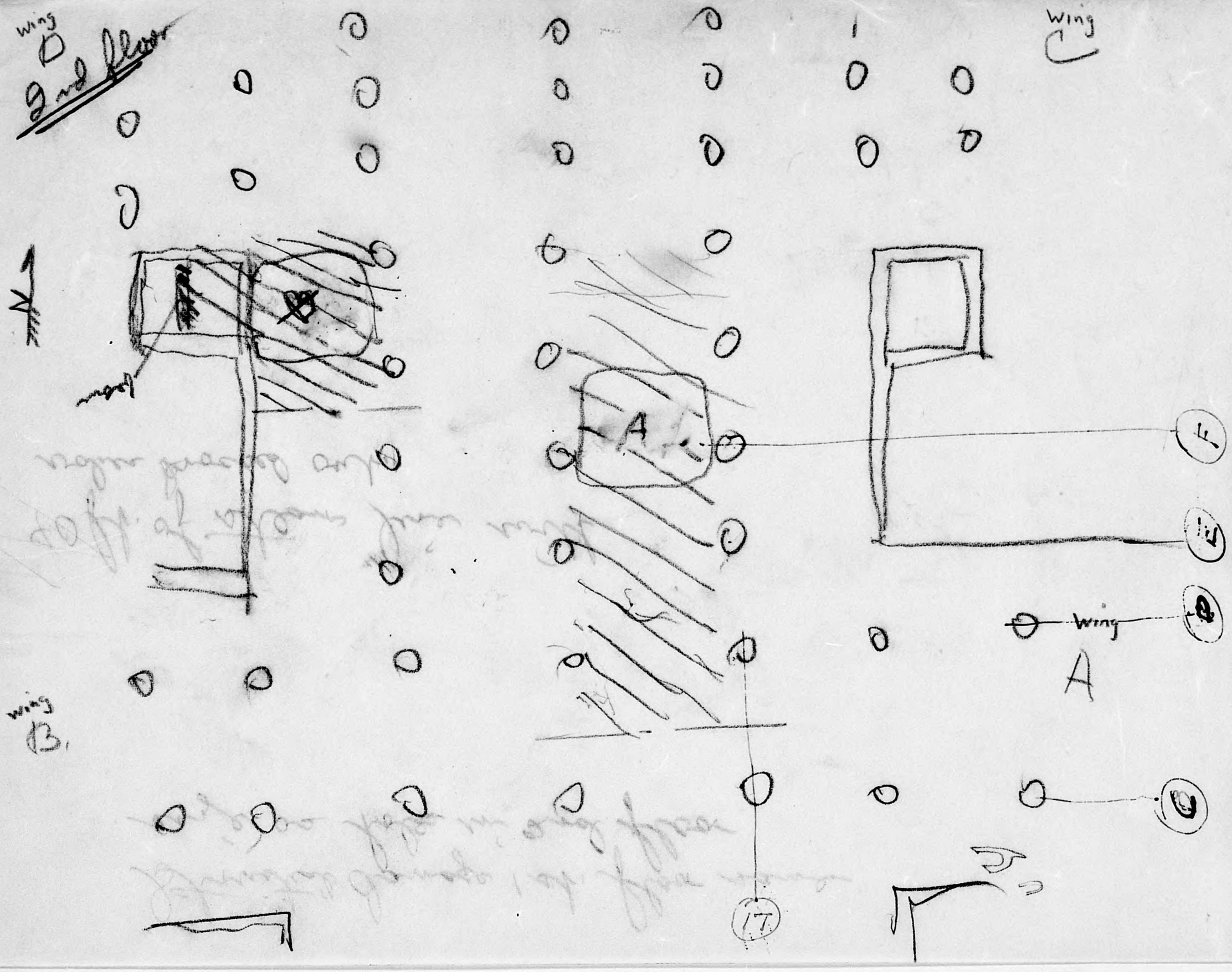
一階平面圖 $\delta = 1/300$

④

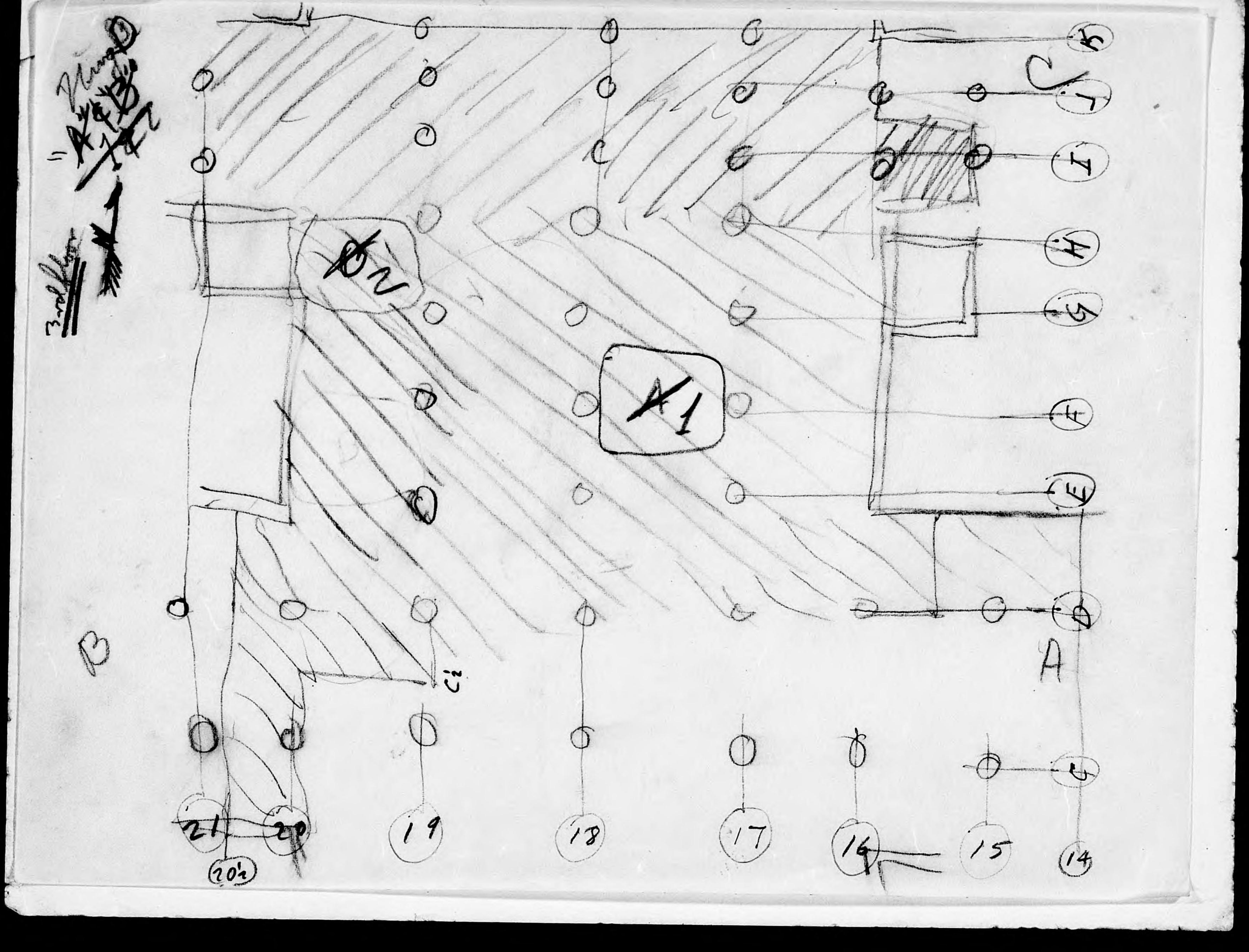


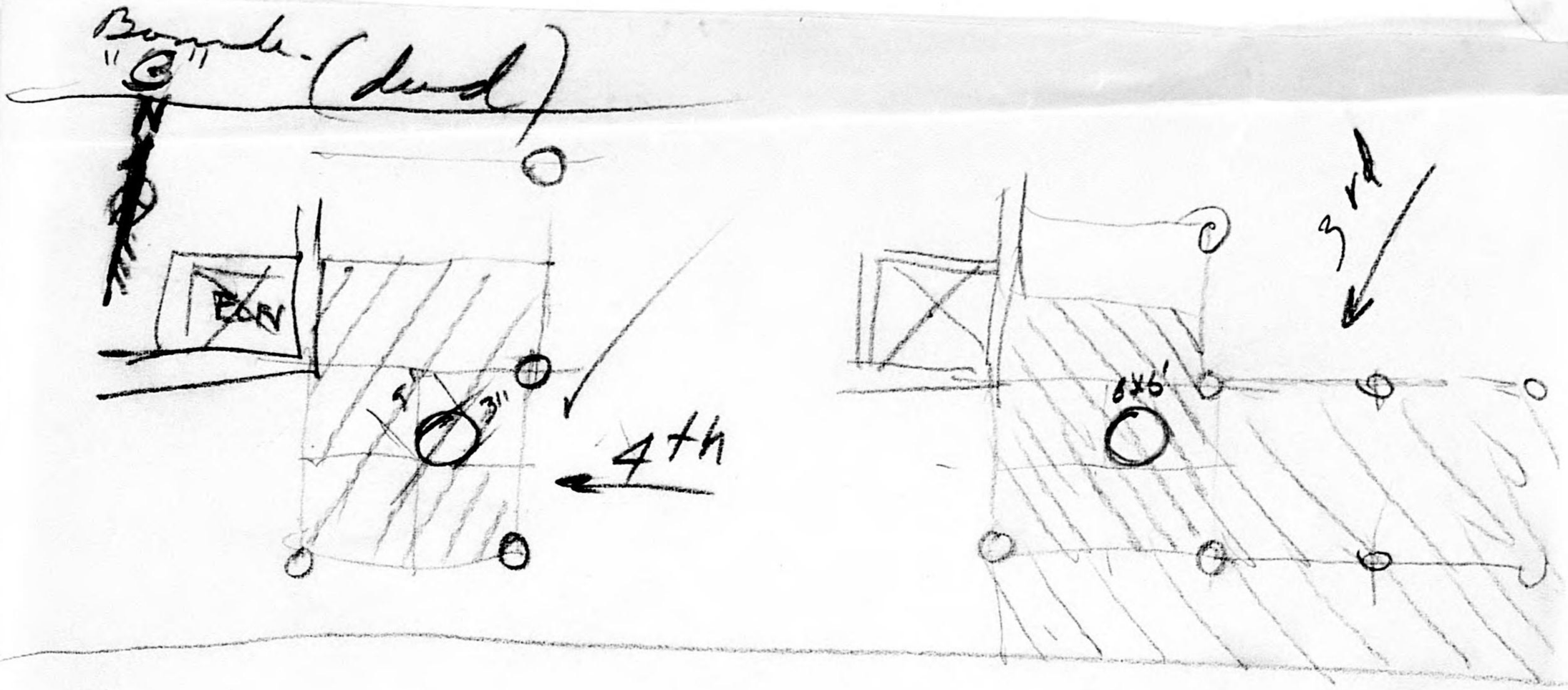
減速歯車倉庫
減速歯車倉庫
ベラ軸事務所
マグナブラックス
ベラ軸倉庫
調質倉庫

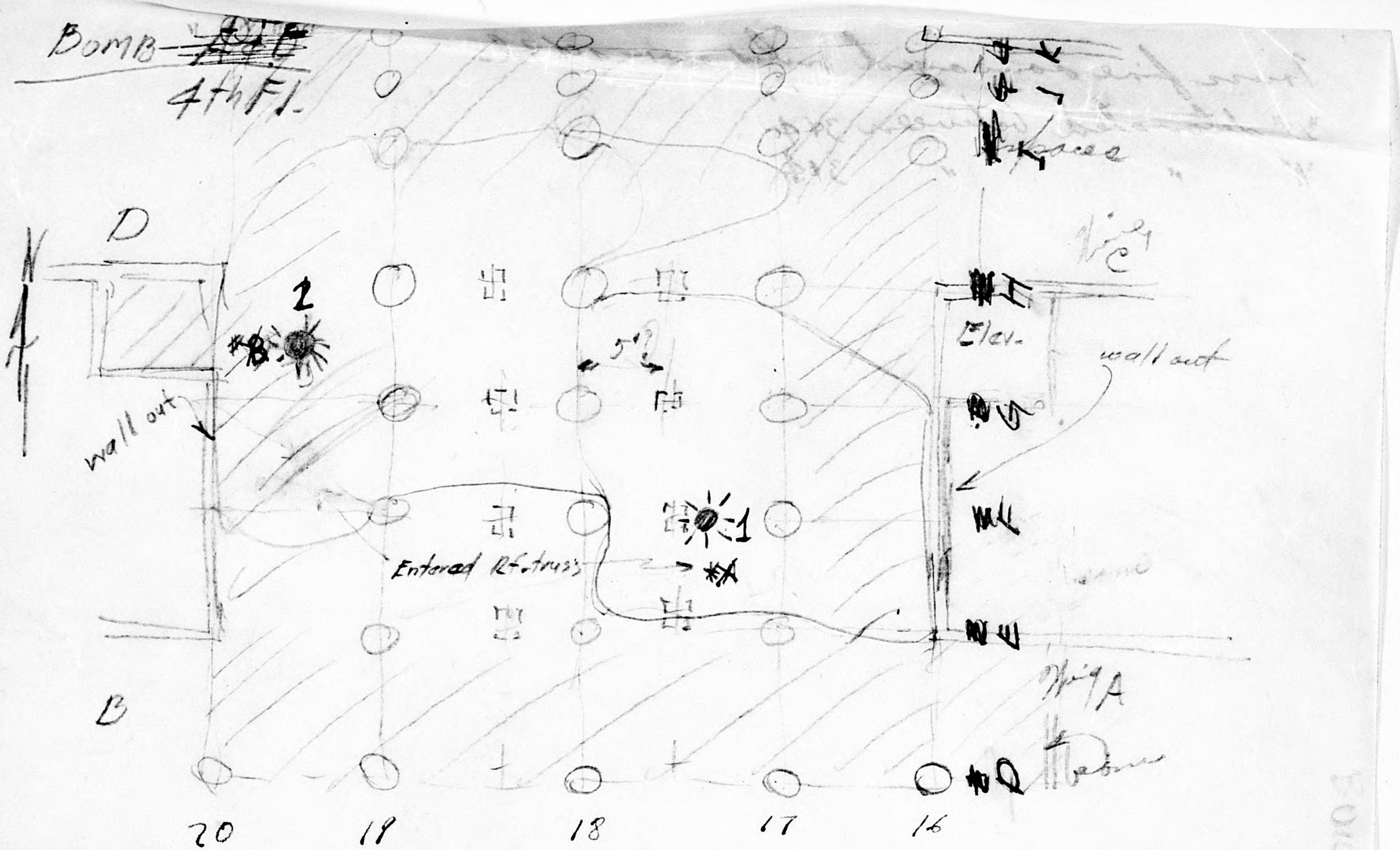
By HR-M NARA, Date 3/5/91



wing D
2nd floor
wing C
N
A
F
E
wing
A
wing B
17


K
J
H
G
F
E
D
C
B
A
21
20
20½
19
18
17
16
15
14


Boundary (dead)
"C"
ENTRANCE
EQUIP
3"
3"
4th
3rd
6x6'
2nd
K
2"x4'
J
20
19
2"x4'
1st



BOMB
4th Fl.
D
N
2
#B
wall out
5'?
Elev.
wall out
1
Entered Rf. truss
#A
B
Wing A
20
19
18
17
16

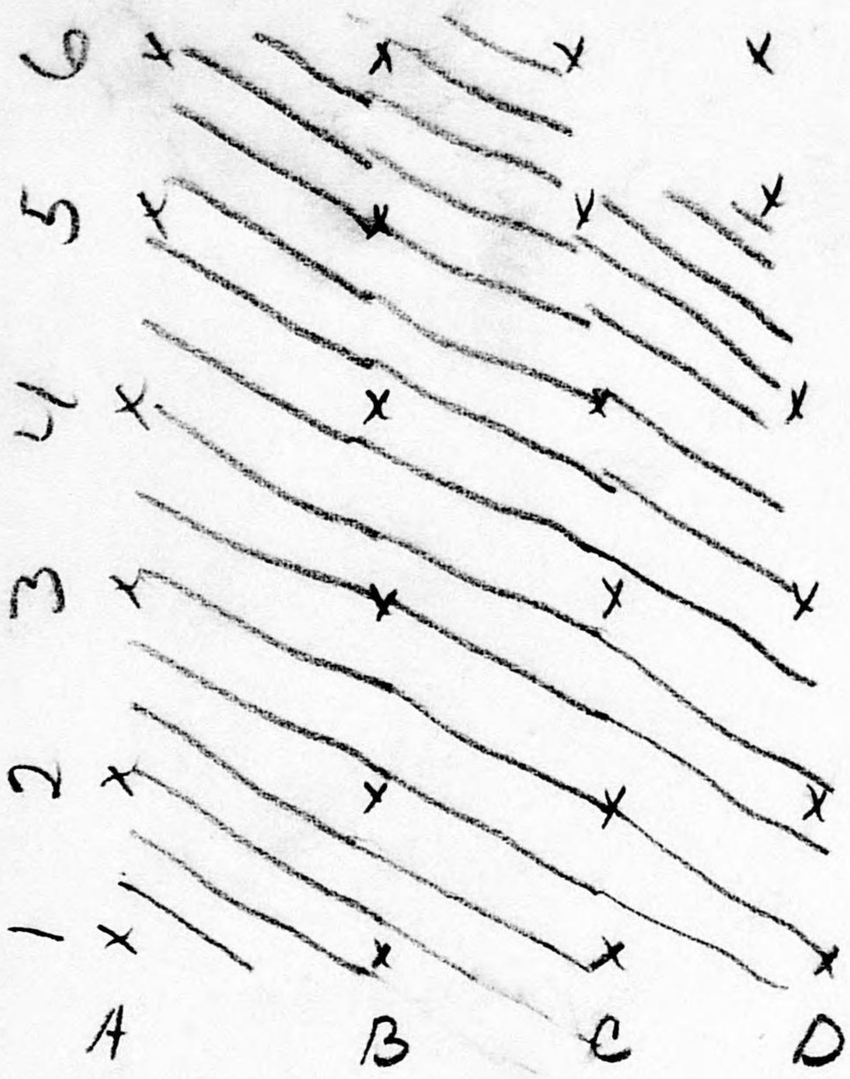
N

22'5 22'5 22'5 22'5

21'10 22'0 21'10 19'10 20'0

"F"

(9) 1st floor

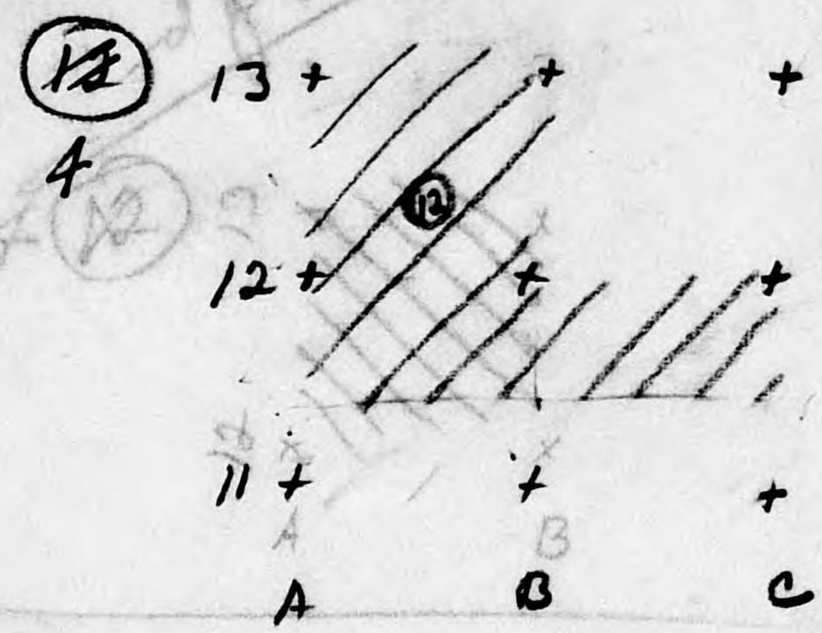


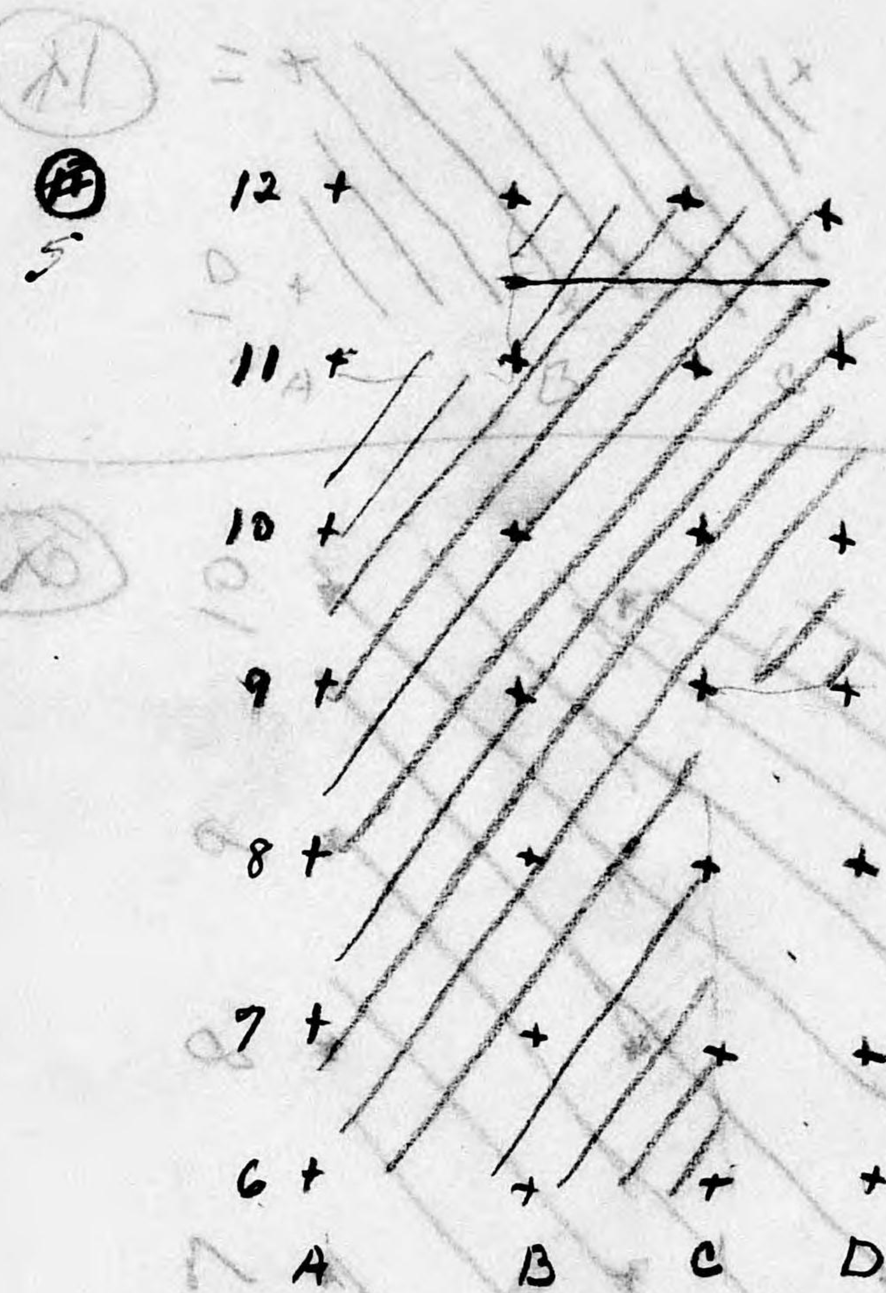
Bowl (9) Disintegrated at base of Column 4A outside bldg.

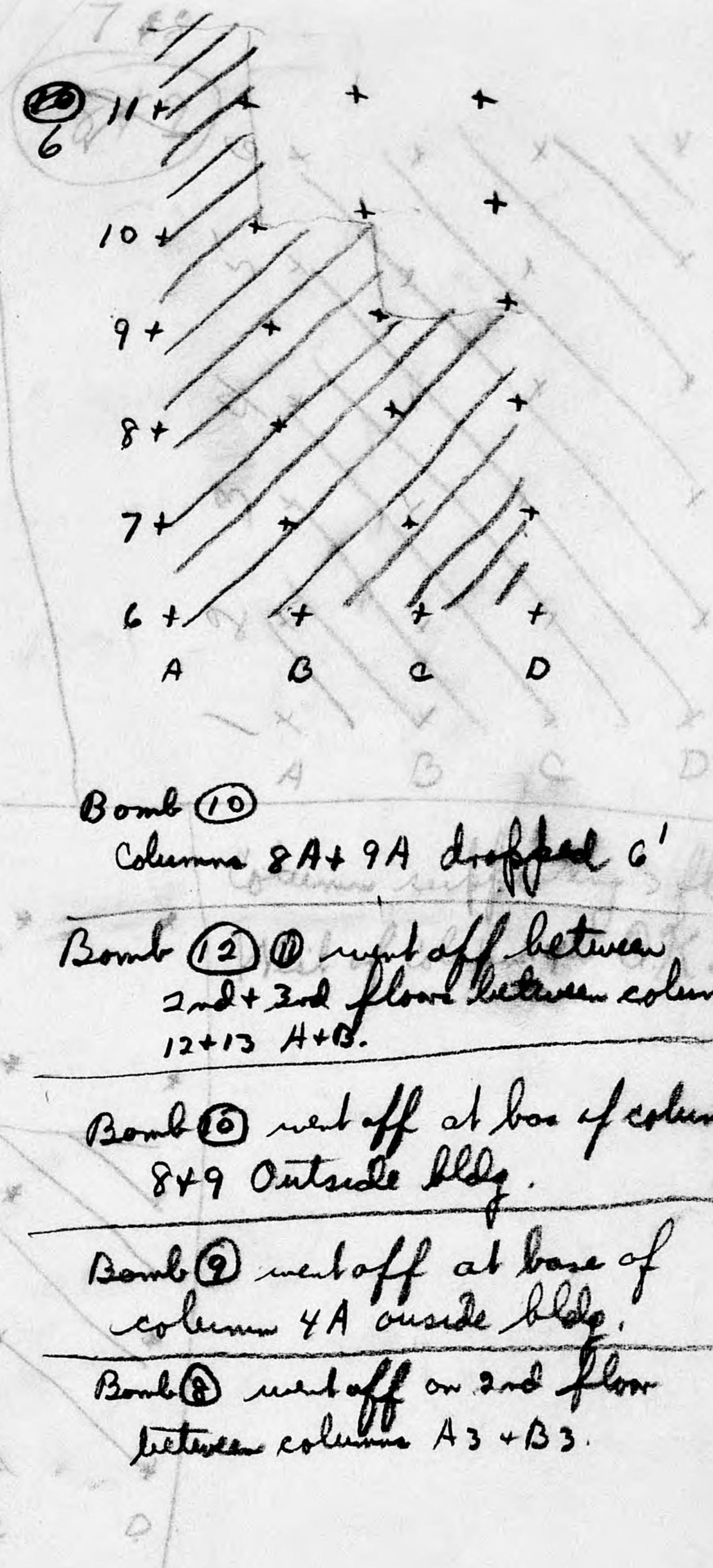
First floor slab is not structural, it lies on ground

1ST

2nd Floor







Bomb (10)
Columns 8A + 9A dropped 6'

Bomb (12) (11) went off between 2nd + 3rd floor between columns 12+13 A+B.

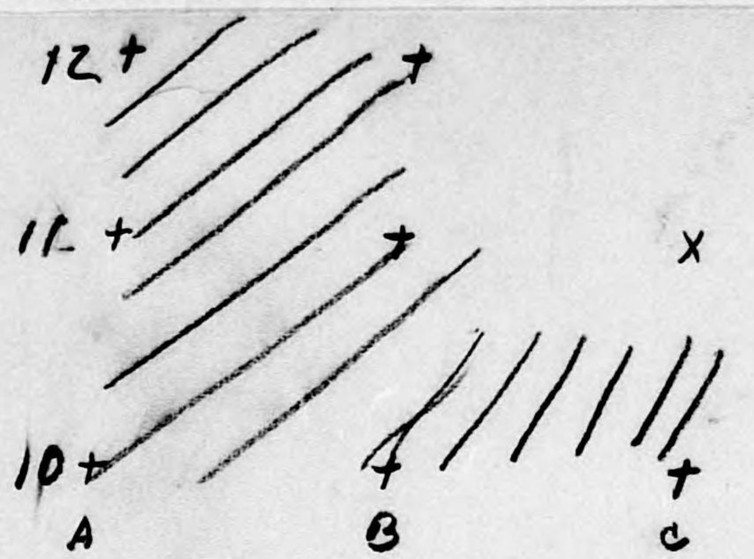
Bomb (10) went off at base of column 8+9 Outside Bldg.

Bomb (9) went off at base of column 4A outside bldg.

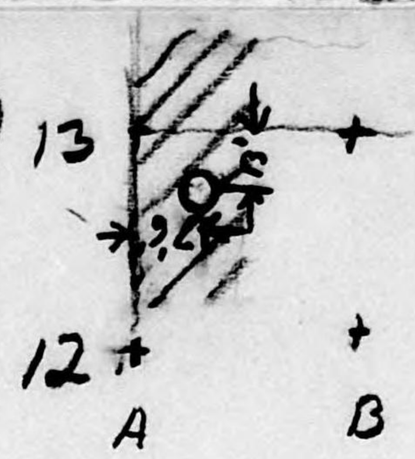
Bomb (8) went off on 2nd floor between columns A3 + B3.

Roof

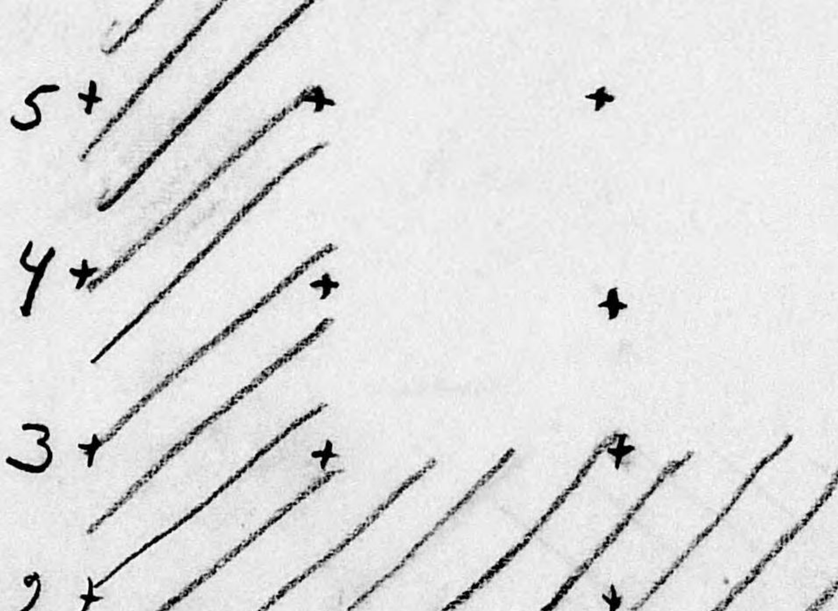
(11)
5



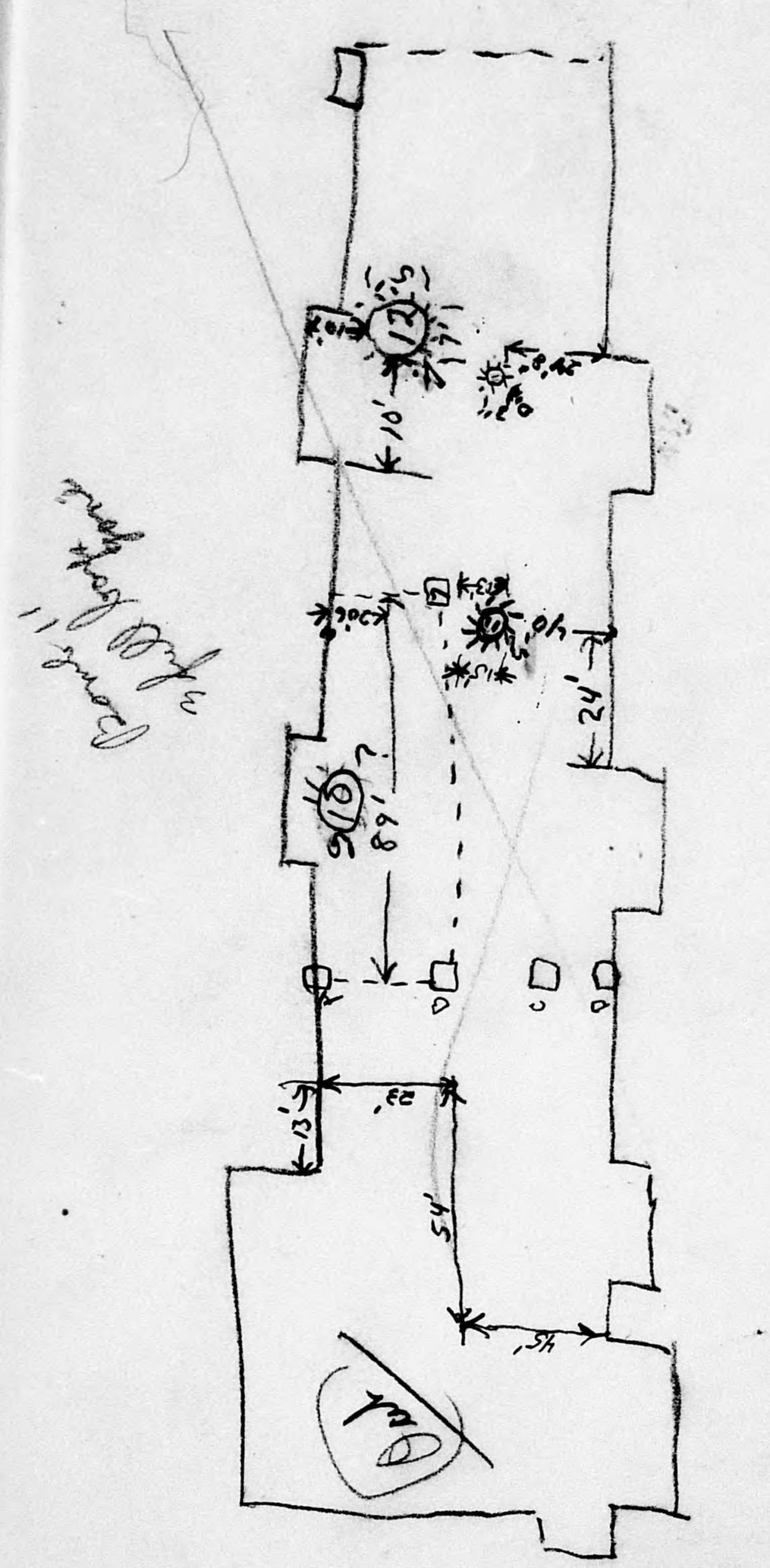
(12)
4



(10)
6



(8+9)
7+8



Bomb (12) + (11) Exploded between 2 + 3 floors

" (10) " at Base of Column

~~8~~ 4 outside Bldg

~~9 outside bldg~~

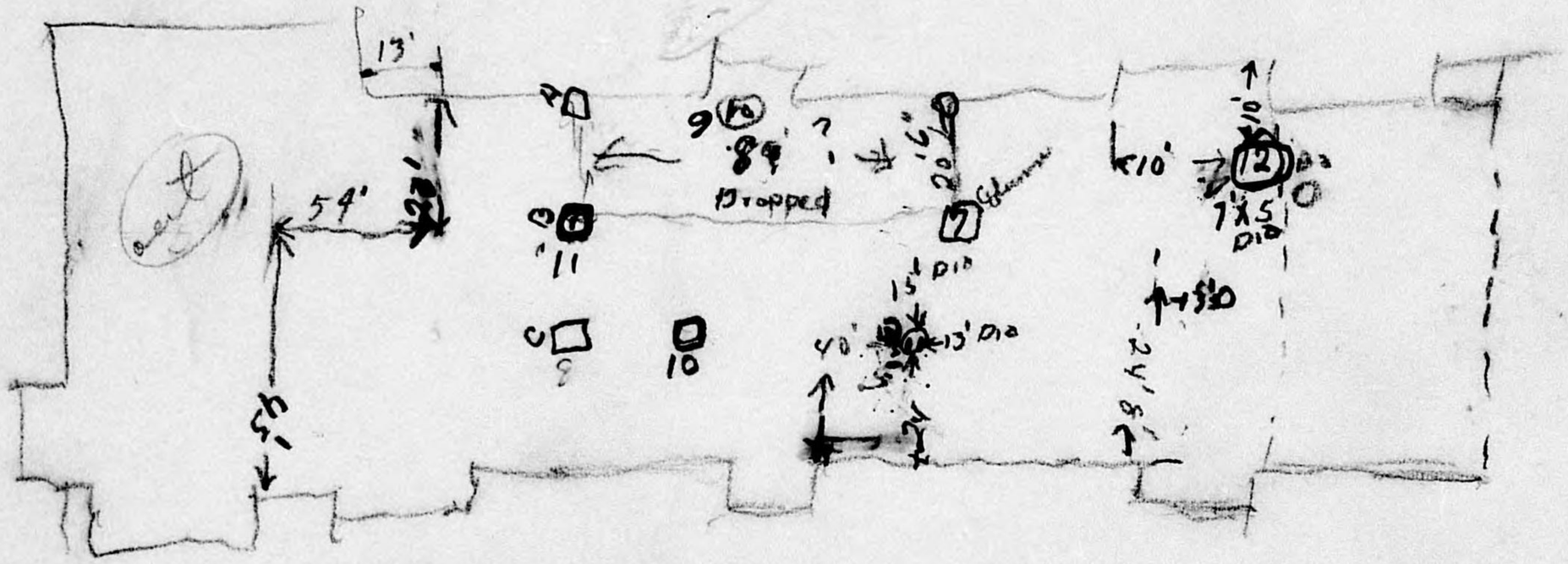
Bomb. (9) Exploded at column 4A

outside bldg.

Bomb. 8 exploded on 2nd floor between

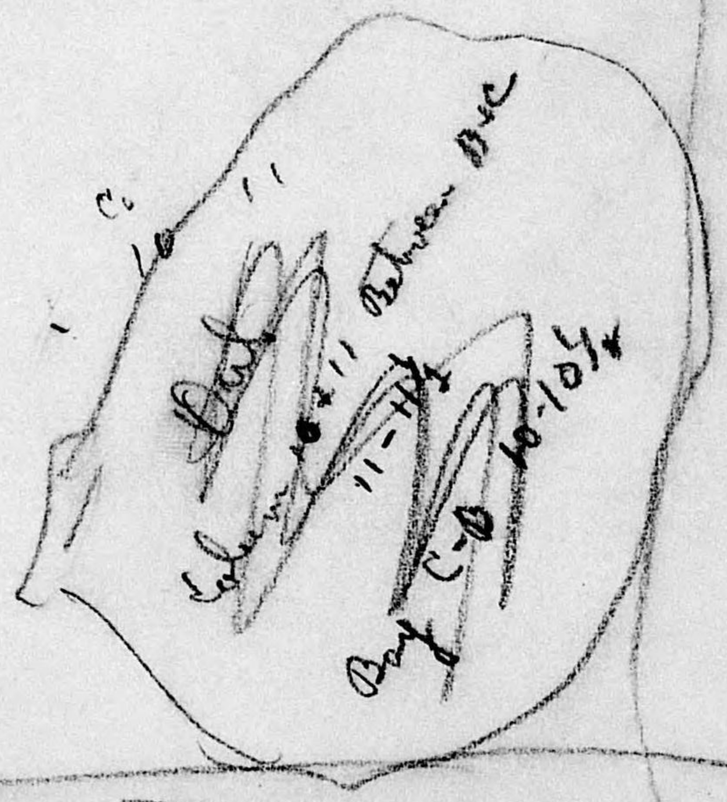
column. A-3 B-3

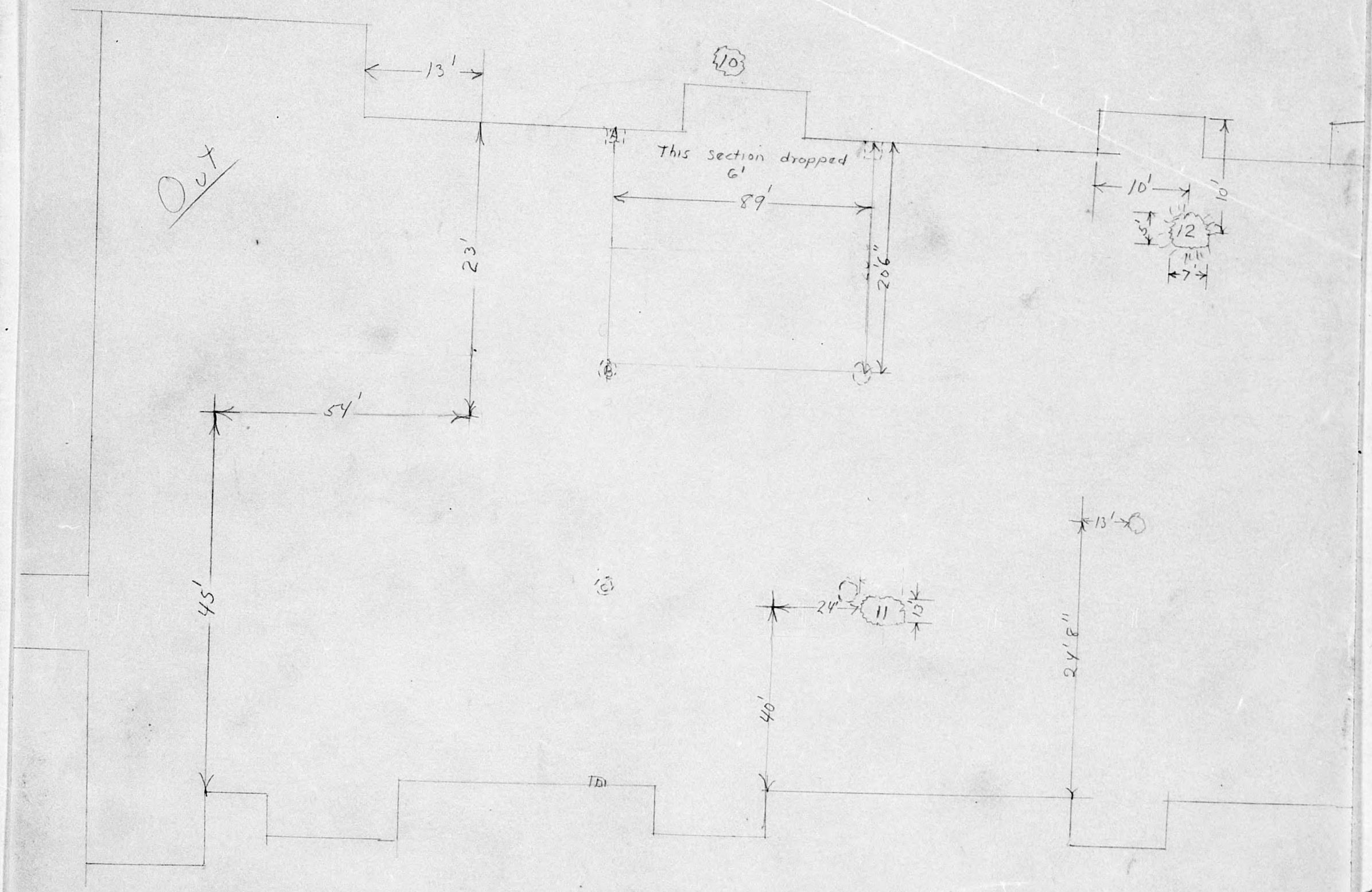
N



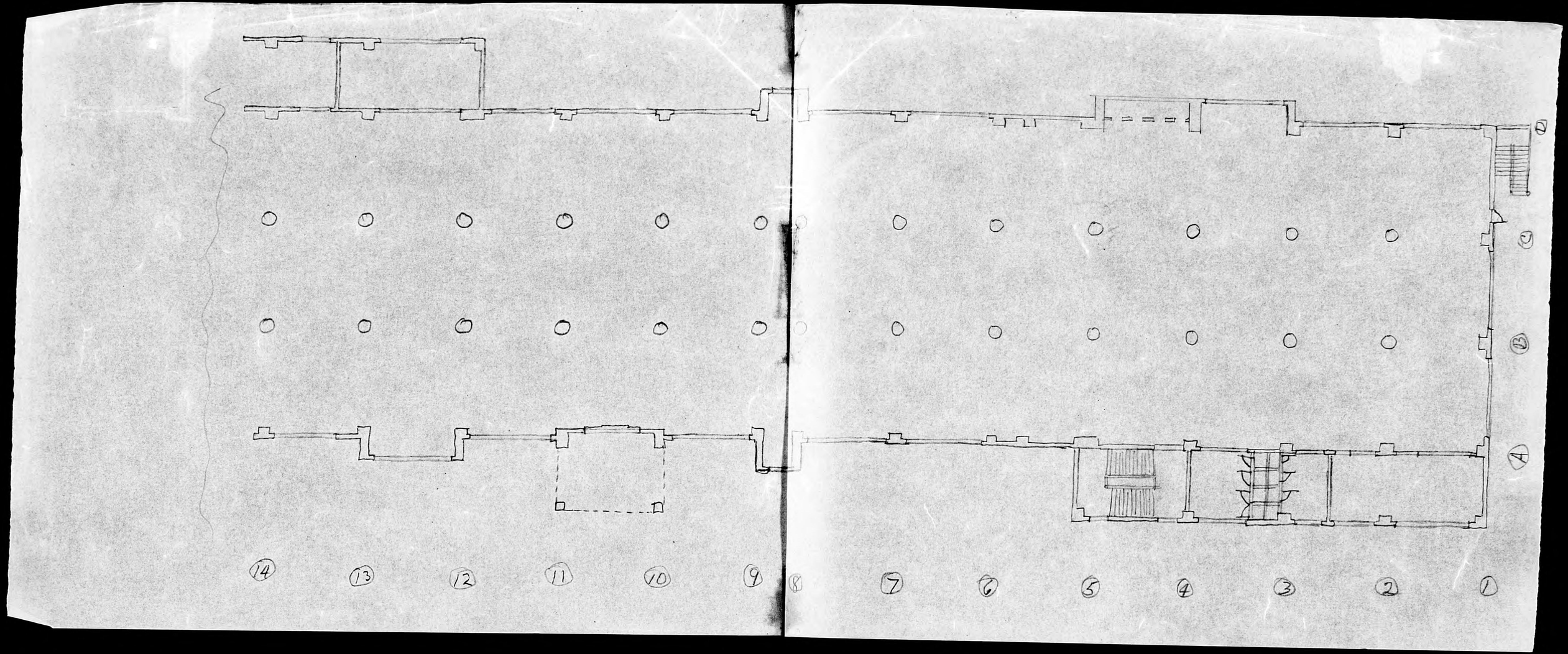
Roof

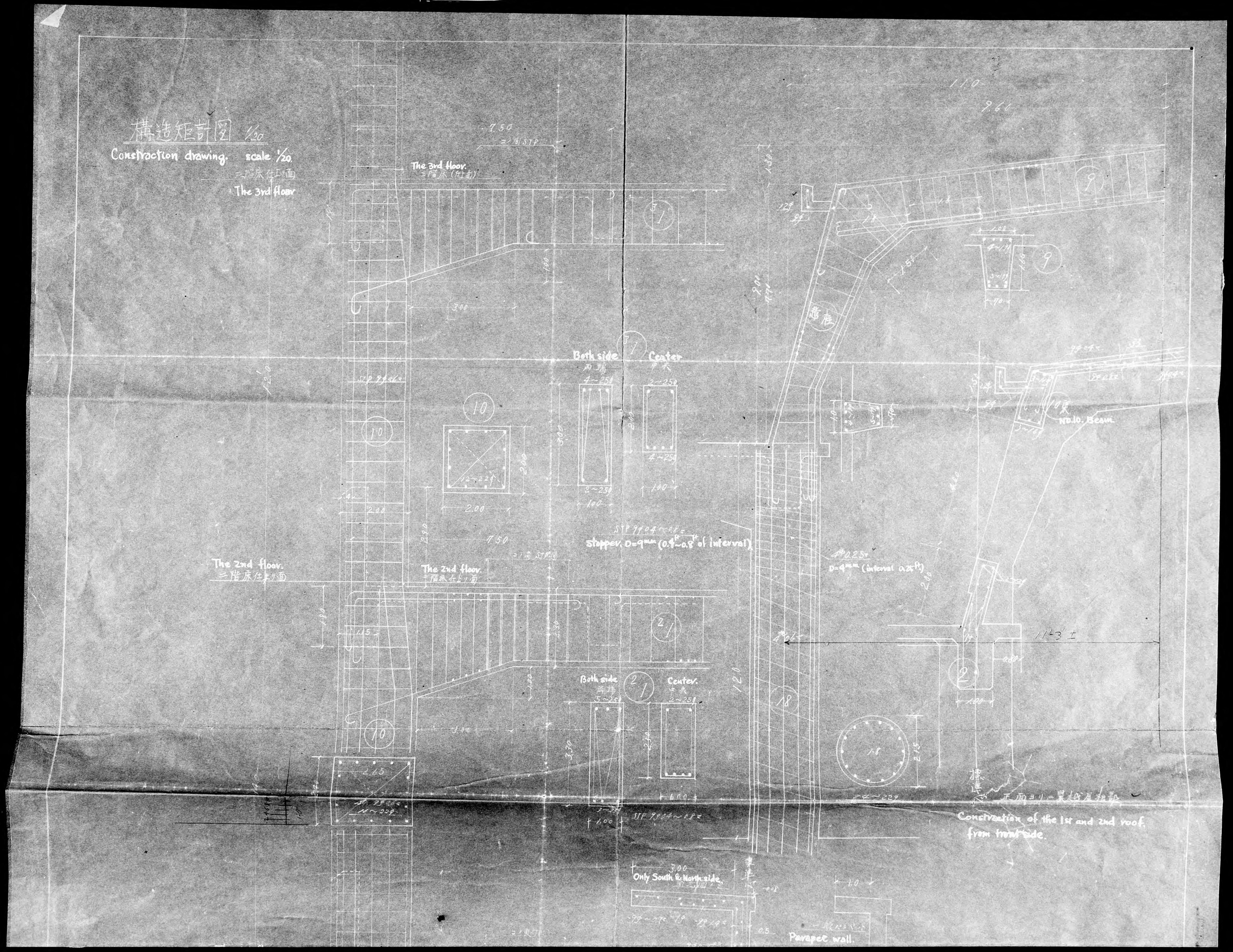
Bomb (11)
3 full loop gone



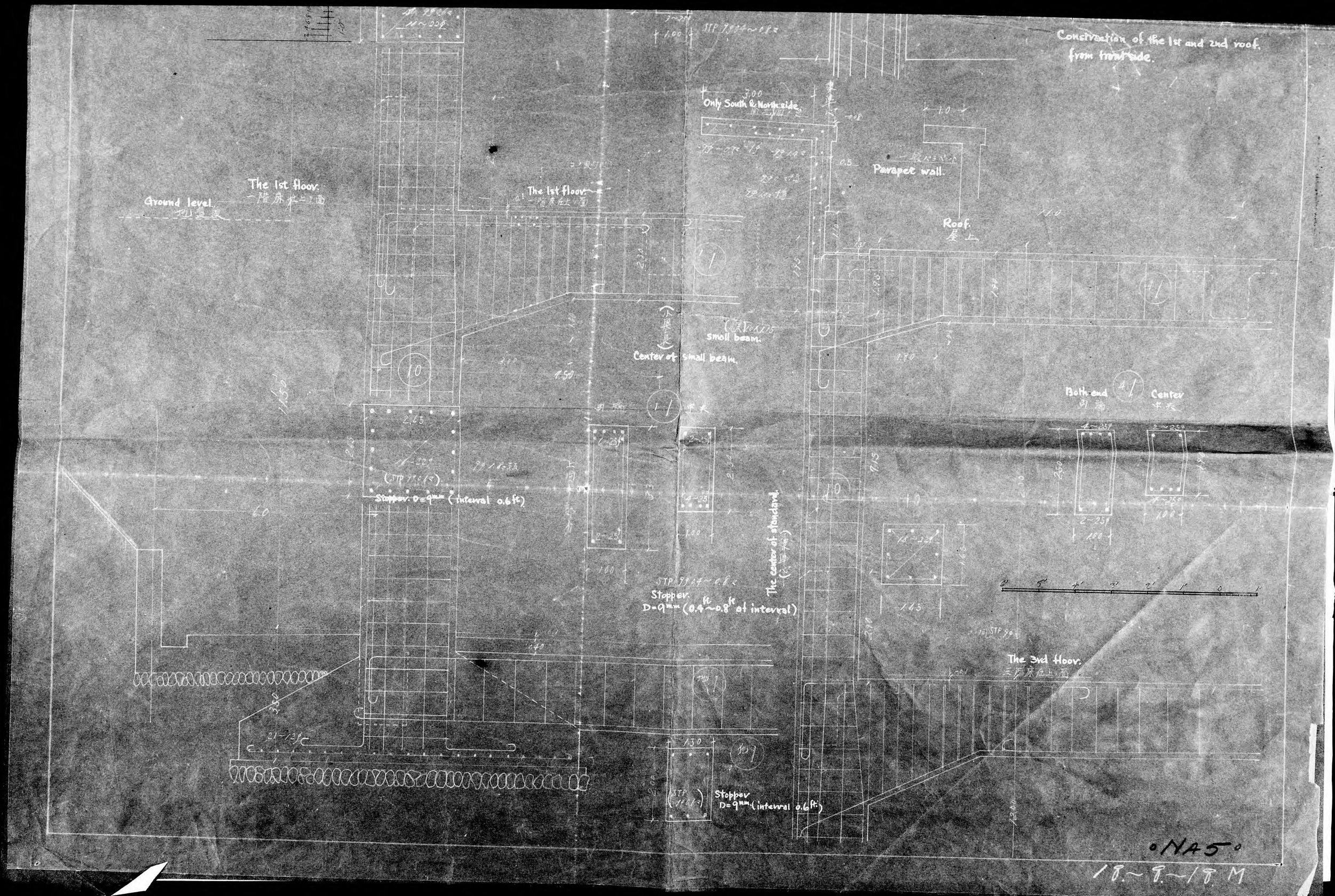


Out
13'
10
This section dropped 6'
89'
23'
20'6"
10'
10'
5'
12
7'
54'
45'
24'
11
13'
40'
13'
24'8"

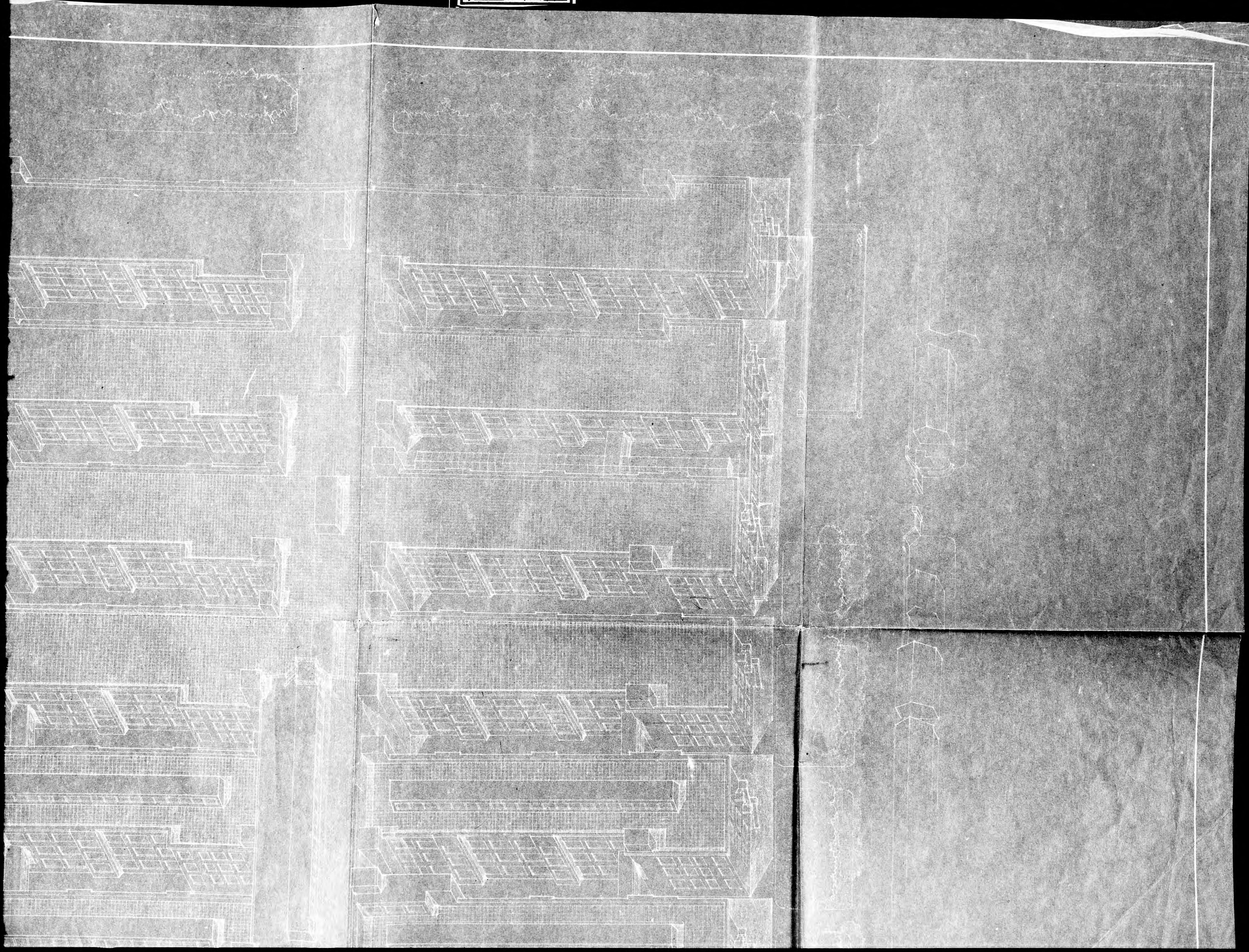

14
13
12
11
10
9
8
7
6
5
4
3
2
1
D
C
B
A

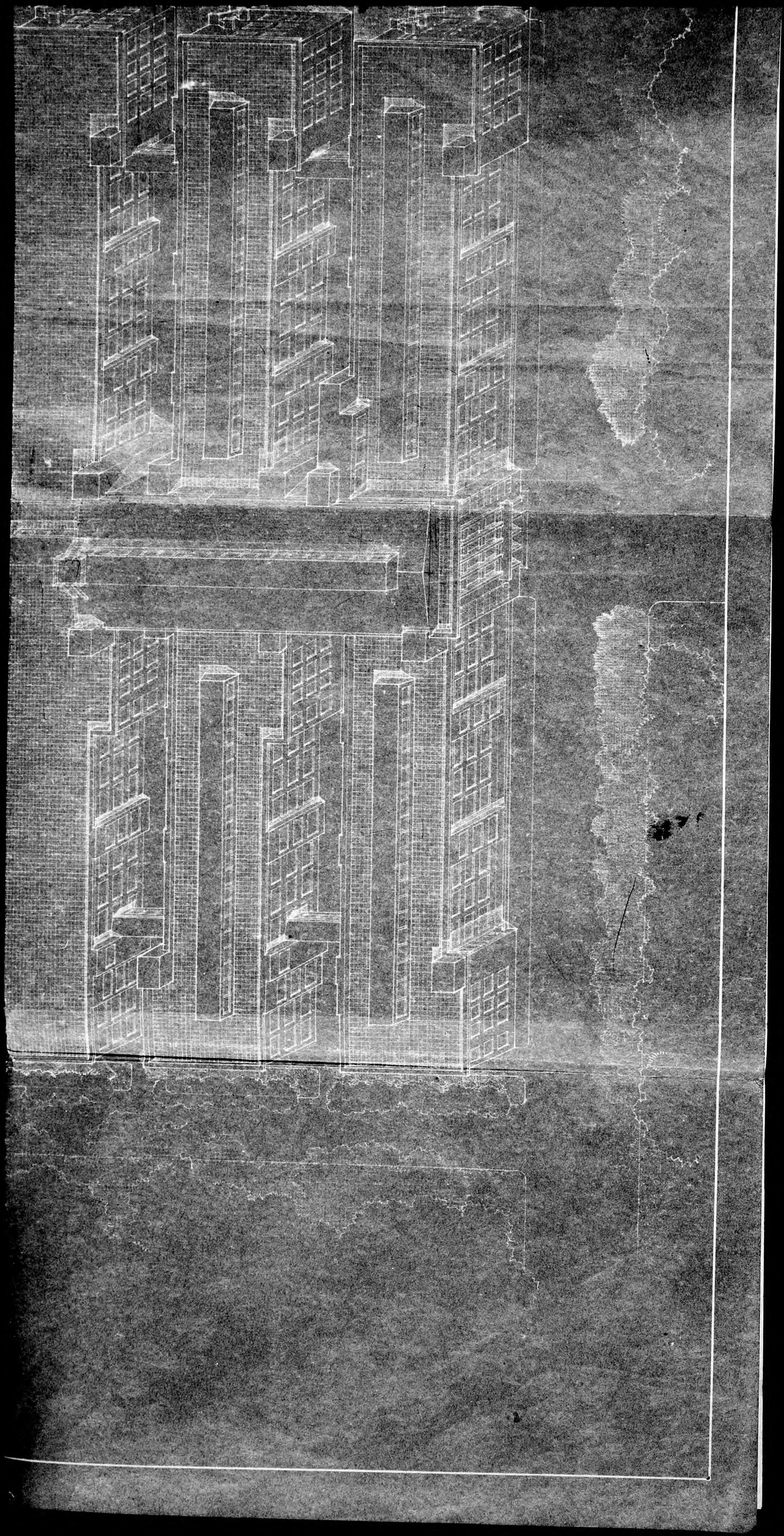


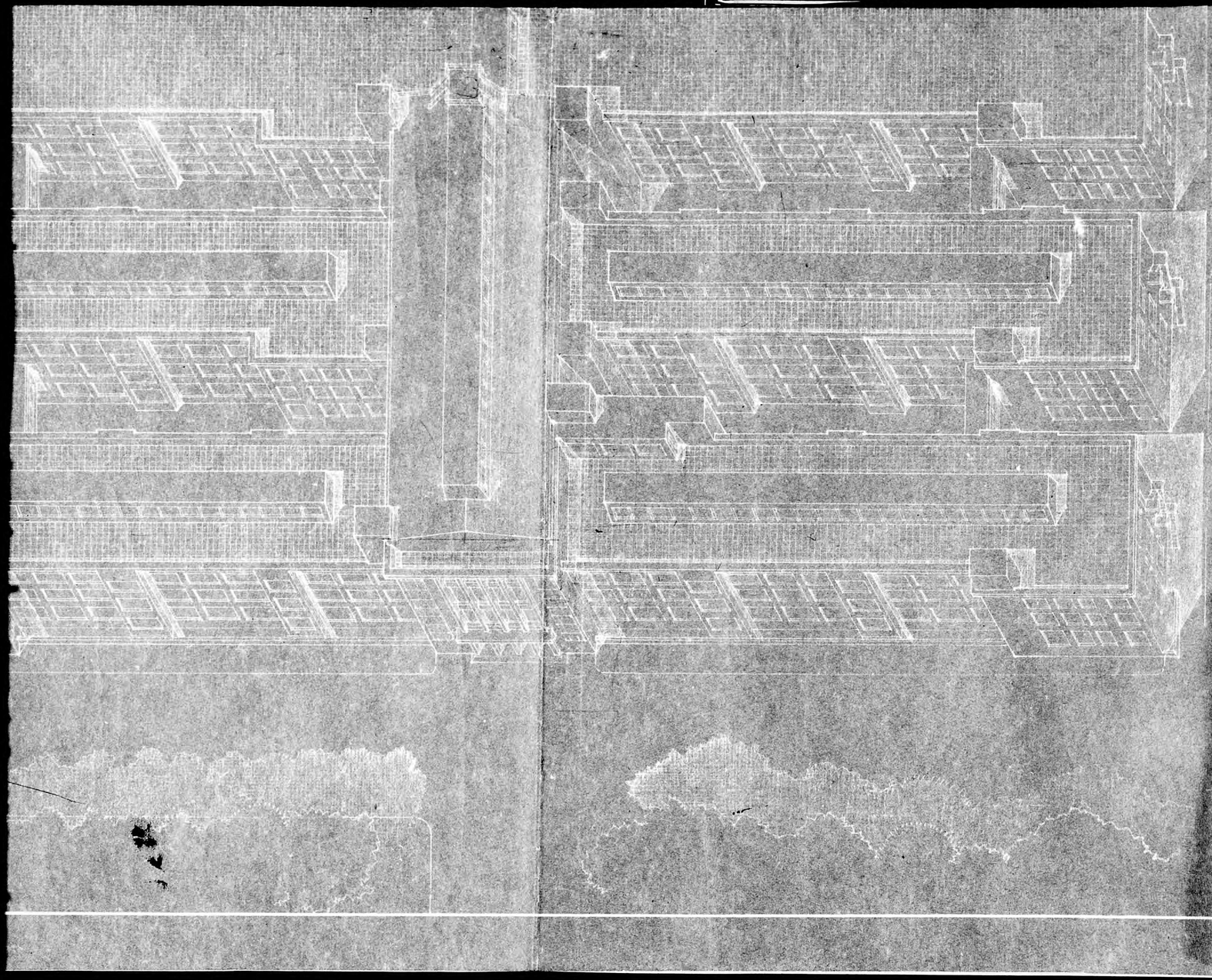
構造矩計図 1/20
Construction drawing. scale 1/20.
The 3rd floor
The 3rd floor.
Both side
Center
No.10. Beam.
Stopper. D=9mm (0.4ft~0.8ft of interval)
The 2nd floor.
The 2nd floor.
Both side
Center.
Only South & North side.
Parapet wall.
Construction of the 1st and 2nd roof from front side.


Construction of the 1st and 2nd roof.
from front side.
Only South & North side.
Parapet wall.
Roof.
The 1st floor.
Ground level.
The 1st floor.
small beam.
Center of small beam.
Both end
Center
Stopper. D=9mm (interval 0.6ft)
The center of standard.
Stopper.
D=9mm (0.4ft~0.8ft of interval)
The 3rd floor.
Stopper
D=9mm (interval 0.6ft)
NA5
18~8~18 M

By HR-M NARA, Date 3/5/91







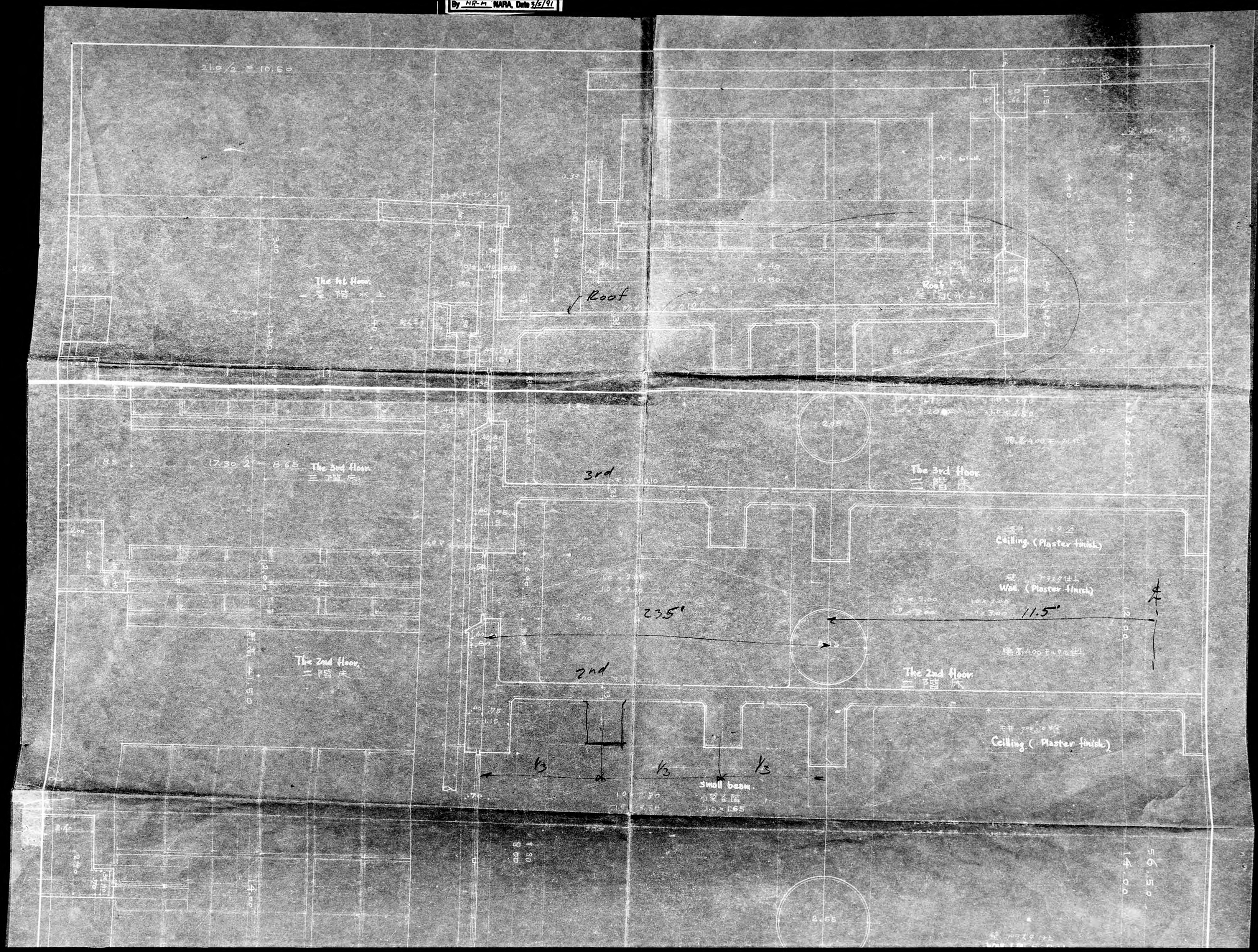
NAKAJIMA
#11

Bird's-eye view

設計 2·03 ~~3·93~~ 7·01	2·03		
製圖	透視図		縮尺 1:600
昭和14-9-4	校閲	設計	製圖

大倉土木株式會社建築部

By HR-M NARA, Date 3/5/91



N.A.

N.A.

Wall (Plaster finish)

Ceiling (Plaster finish)

Floor

Gas pipe

Plate

Height of the 1st floor

The 1st floor

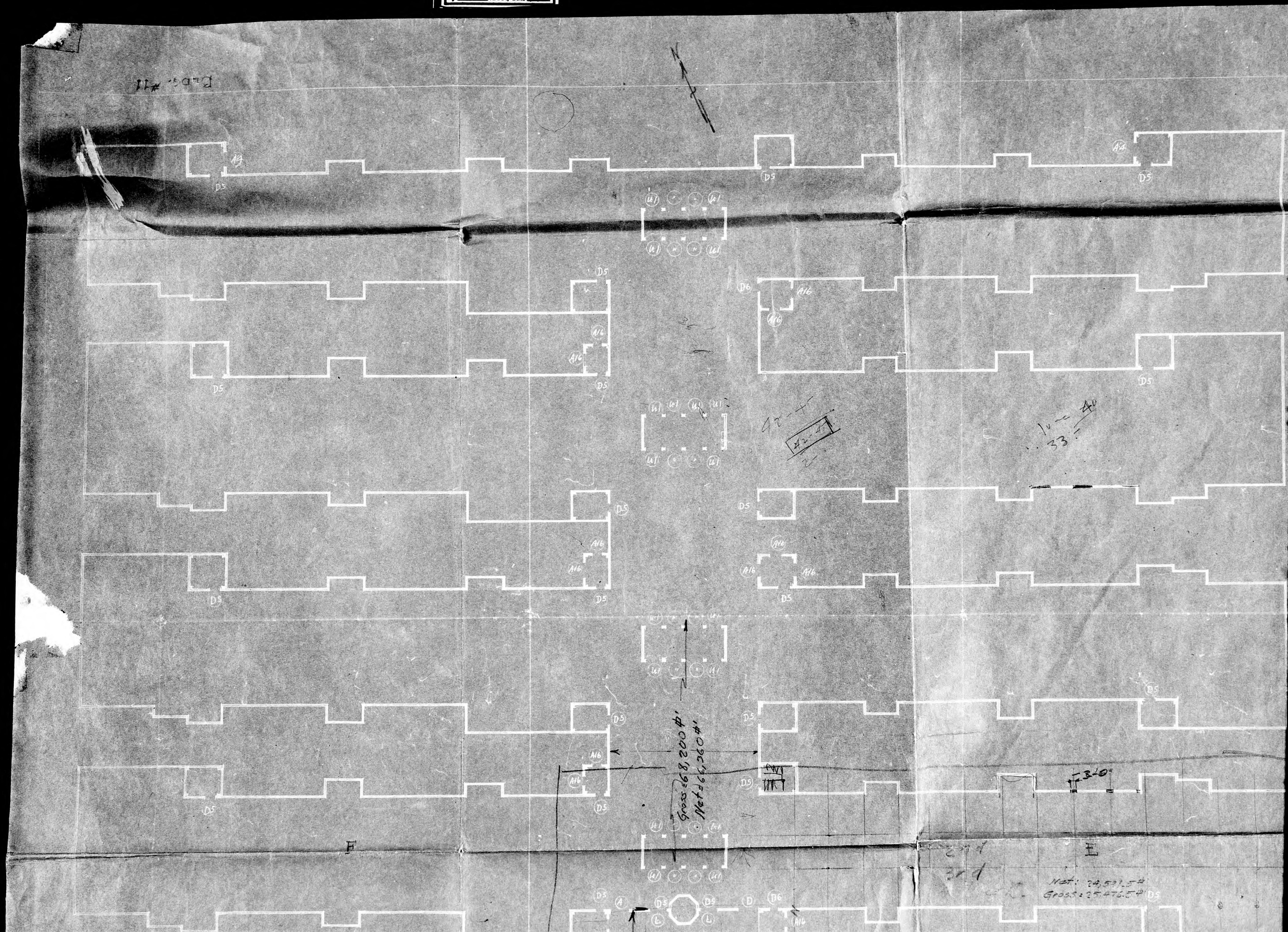
3rd floor

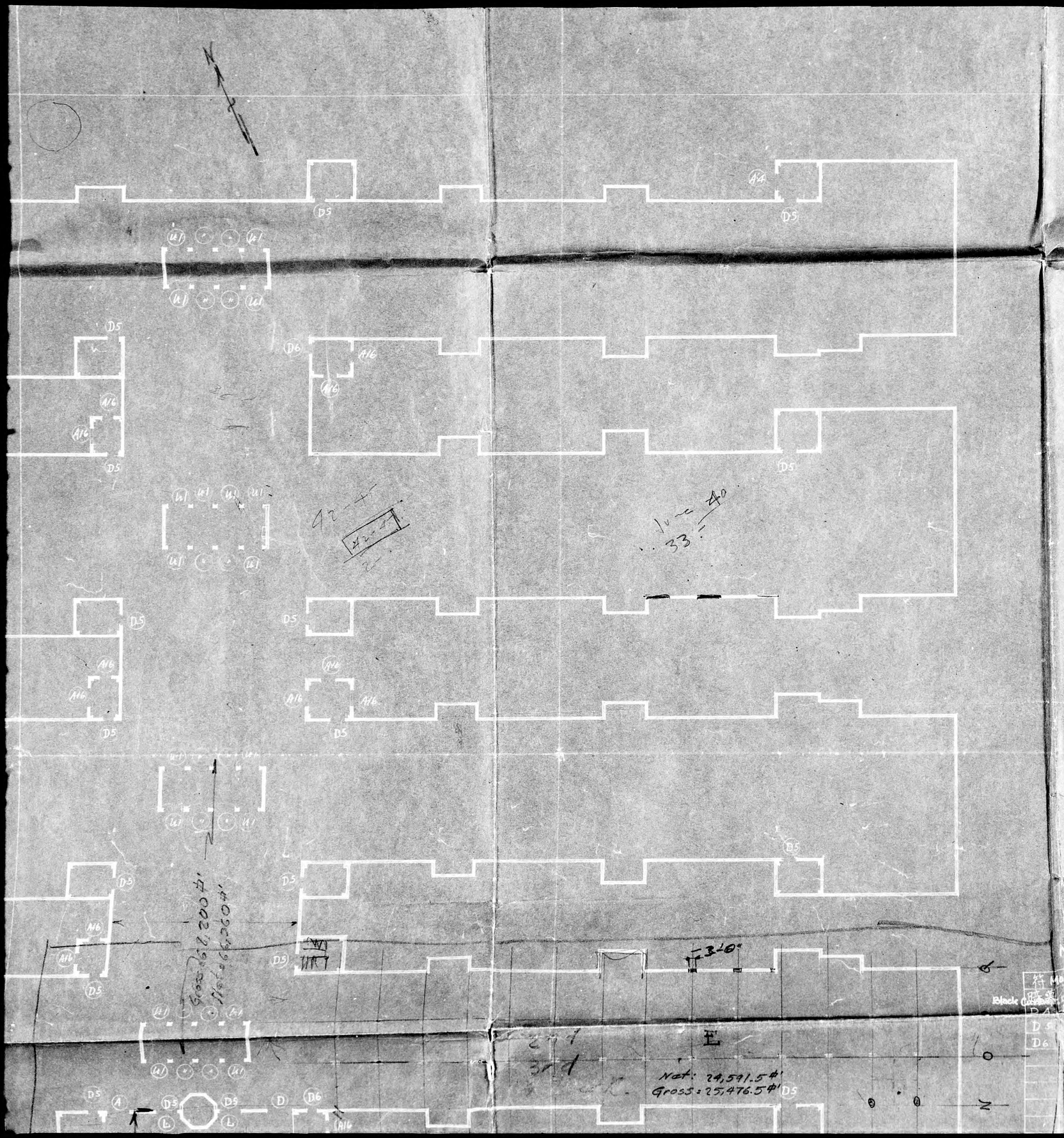
2nd floor

1st floor

Roof

By HR-M NARA, Date 3/5/91





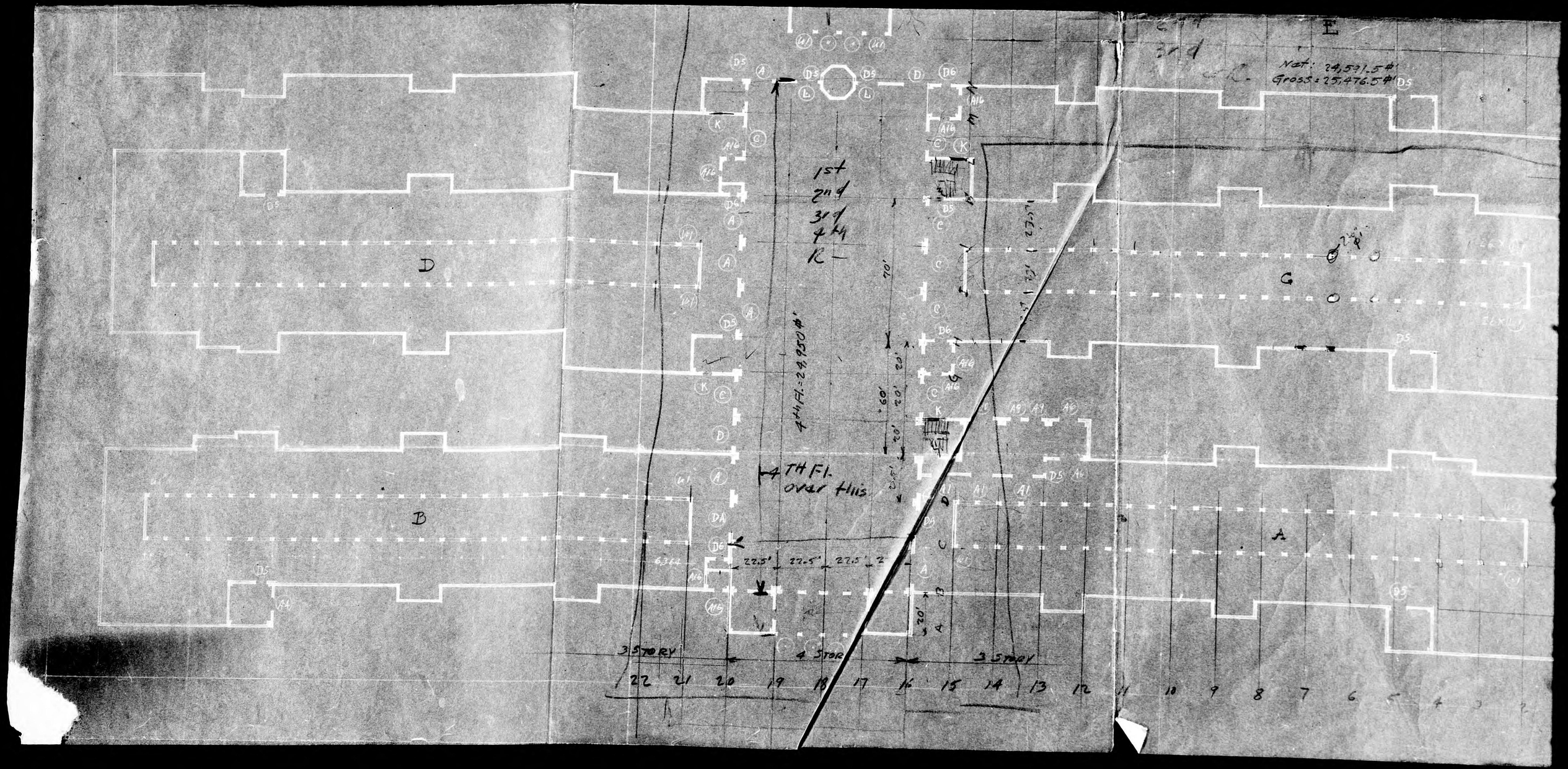
四階並・屋外平面図

Plan of the 4th floor and outdoors.

サッシュ並ドアー数量

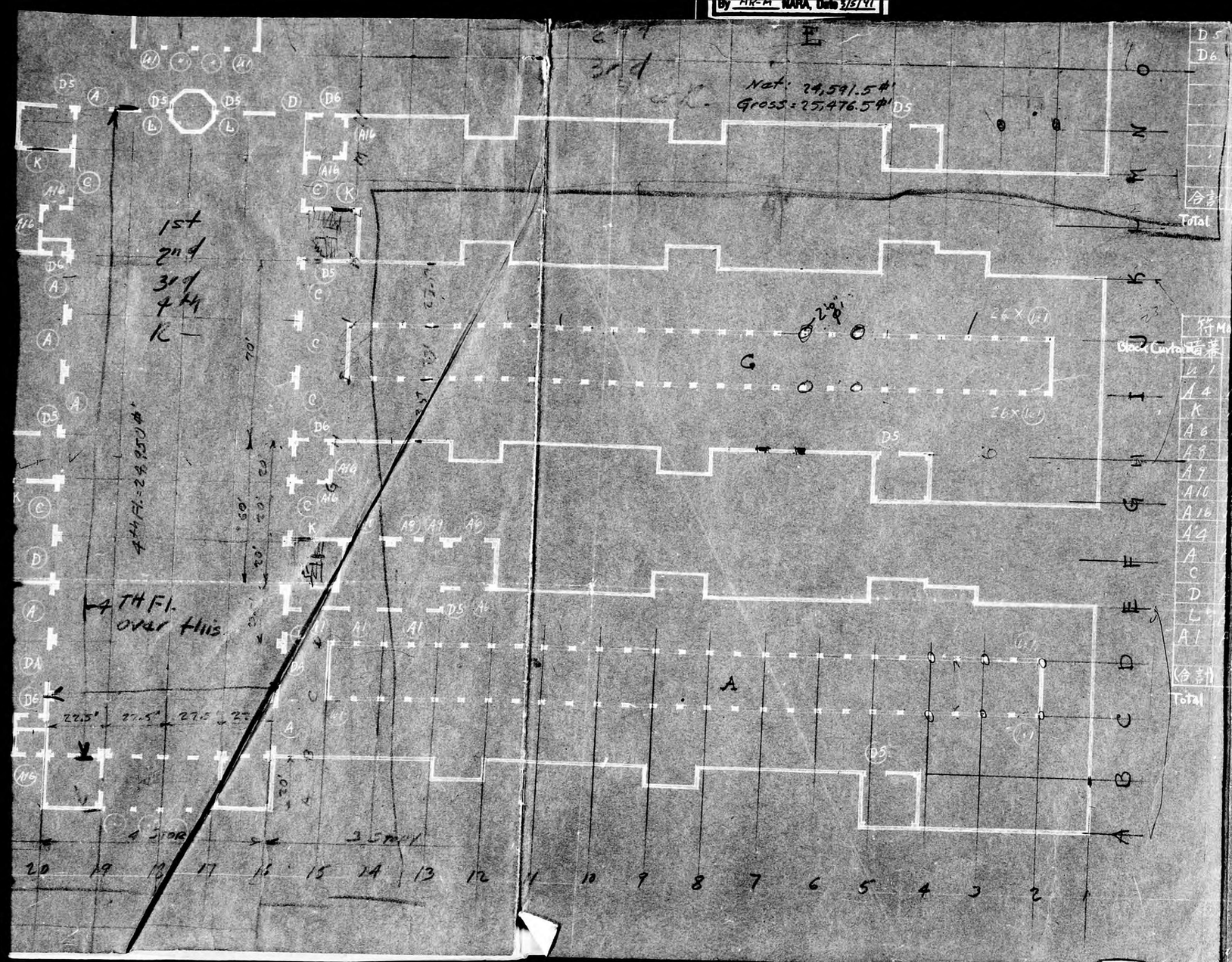
Number of Sash and Door

符号 Mark	数 Number of parts													寸 Dimension	法	備考 Remarks
腰部 Door	1	2	3	4	5	6	7	8	9	10	11	12	13	[illegible]	[illegible]	[illegible]
D4													2	[illegible]	[illegible]	[illegible]
D5	2	3	2	2	3	3	3	4	2	1	2	2	29	.909 (3.0)	1.976 (6.5)	[illegible]
D6						1			1	1	1		4			



E
Net: 24,591.5 #'
Gross: 25,476.5 #'
1st
2nd
3rd
4th
R
D
G
B
A
4th Fl. = 24,950 #'
4TH Fl. over this
3 STORY
4 STOR
3 STORY
22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2

By HK-M NARA, Date 3/5/91

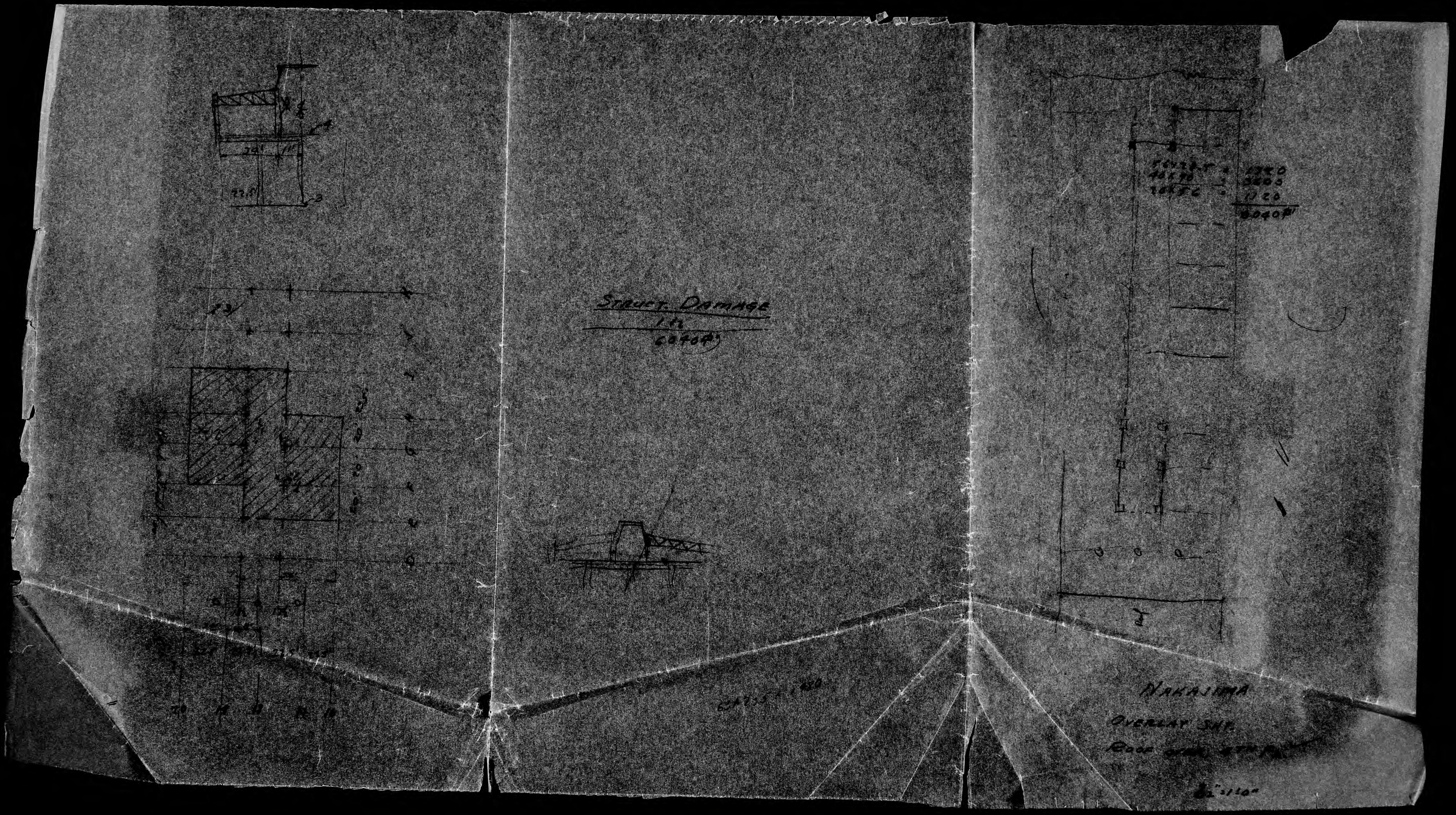


D5	D5	2	3	2	2	3	3	3	4	2	1	2	2	29	909 (3.0)	1,970 (6.5)	片用右
D6	D6						1			1	1	1		4			左
合計 Total		2	3	2	2	3	4	3	4	3	3	3	3	35			

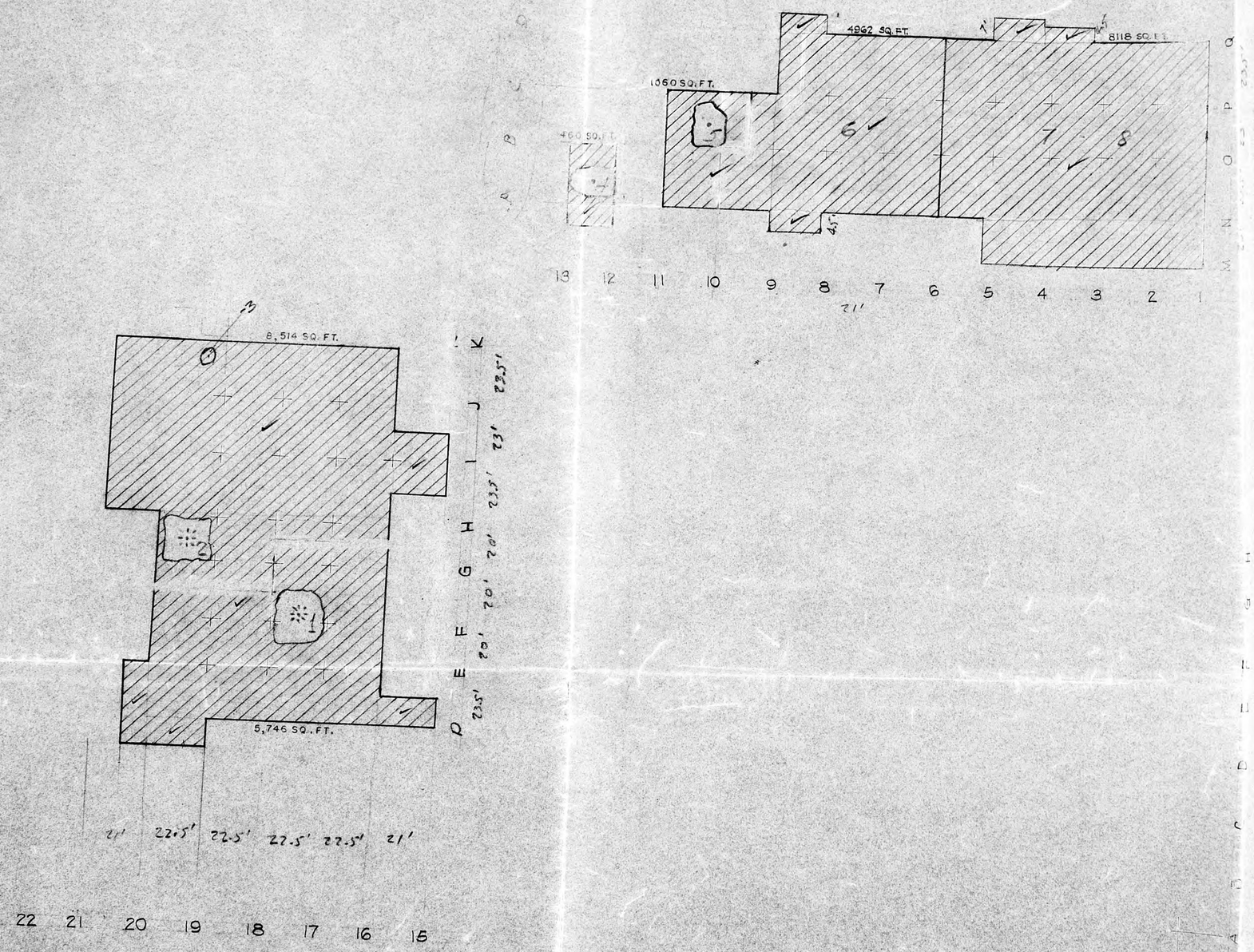
符号 Mays 番	Mark	数 Number of Reports 量 1	2	3	4	5	6	7	8	9	10	11	12	計	寸 Dimension 法 巾 Width	Height (H)	備考 Remarks 摘要
A1	1	4	4	4	4	4	4	4	4	52	52	52	52	240	2,844 (9.4)	1,212 (4.0)	一連廻轉
A4	4	1									1			1	3,636 (12.0)	1,212 (4.0)	二連廻轉
K	5								1	1		1	1	4	1,212 (4.0)	2,091 (6.9)	單 上部廻轉 下部之出
A6	6												2	2	4,924 (16.25)	1,839 (6.07)	3連
A8	8												1	1	1,818 (6.0)	〃	單
A9	9												1	1	2,727 (9.0)	〃	2連
A10	10												1	1	3,182 (10.5)	〃	〃
A16	16		2	2		3	2	2	2	2	2	2		19	1,818 (6.0)	1,212 (4.0)	單 廻轉
A4	4	1		1										2	2,846 (9.4)	1,212 (4.0)	
A	01								1	3	1		1	6	5,242 (17.3)	2,667 (8.8)	3連 上部廻轉 下部之出
C	03						1		1	1		4		7	5,015 (16.55)	〃	
D	04						1				1			2	3,636 (12.0)	〃	2連
L	12						1		1				1	3	2,424 (8.0)	2,667 (8.8)	〃
A1	1												3	3	5,242 (17.3)	2,091 (6.9)	
合計 Total		5	6	7	4	7	9	6	10	59	57	59	63	292			

°NA6°

- NAKAJIMA
FLAN
BLDG. #11


STRUCT. DAMAGE
1 ft
6040#
NAKAJIMA
OVERLAY SHT.

By HR-M NARA, Date 3/5/91



-3RD FL.-

2	3	4	5 & 6	7 & 8
01	0	588	6,549	9,271

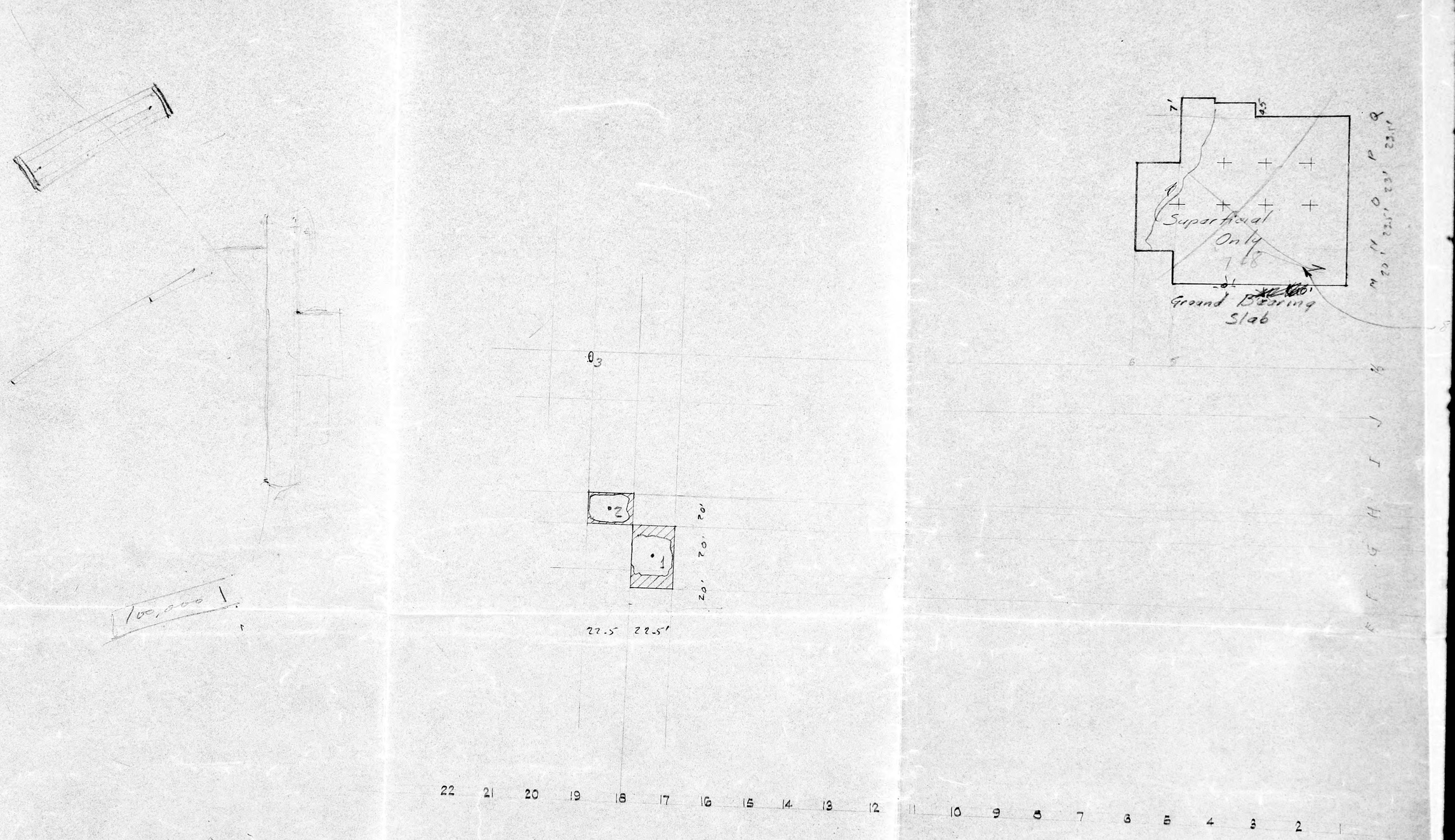
35

[illegible]

[illegible] SHEET

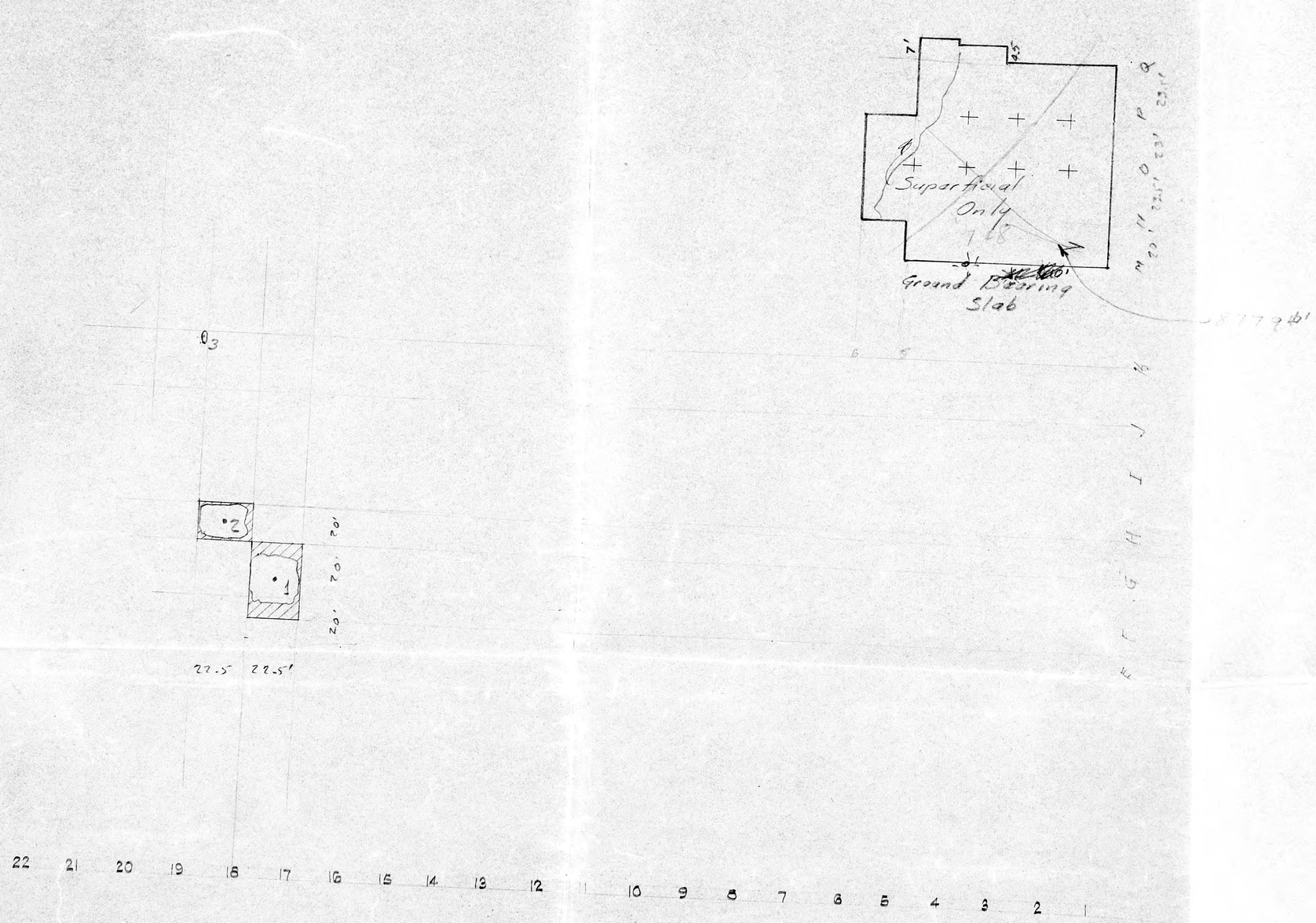
3rd FLOOR [illegible]

32" = 1'-0"



100,000
Superficial Only
Ground Bearing Slab
7'
4.5
22.5
22.5'
20'
20'
20'
22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

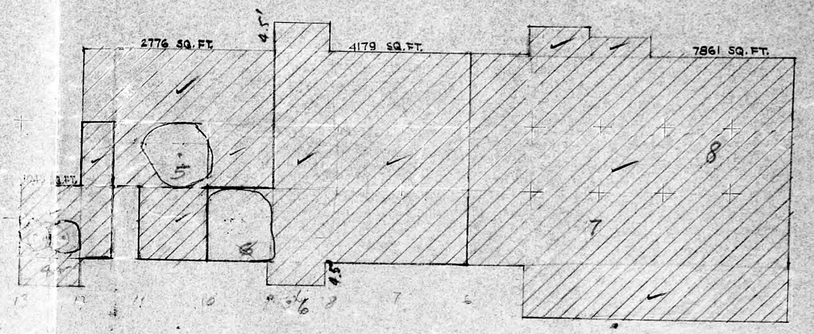
By HR-M NARA, Date 3/5/91

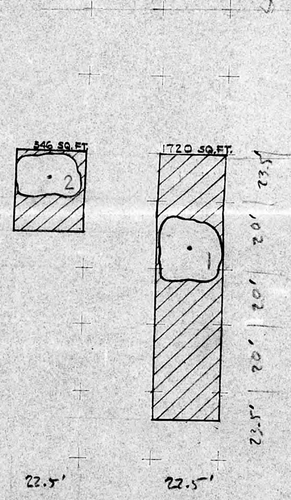


NAKAJIMA

OVERLAY PLAN
1st FLOOR BLDG. 11
1/32" = 1'-0"

Nakajima
Floor & Roof Damages

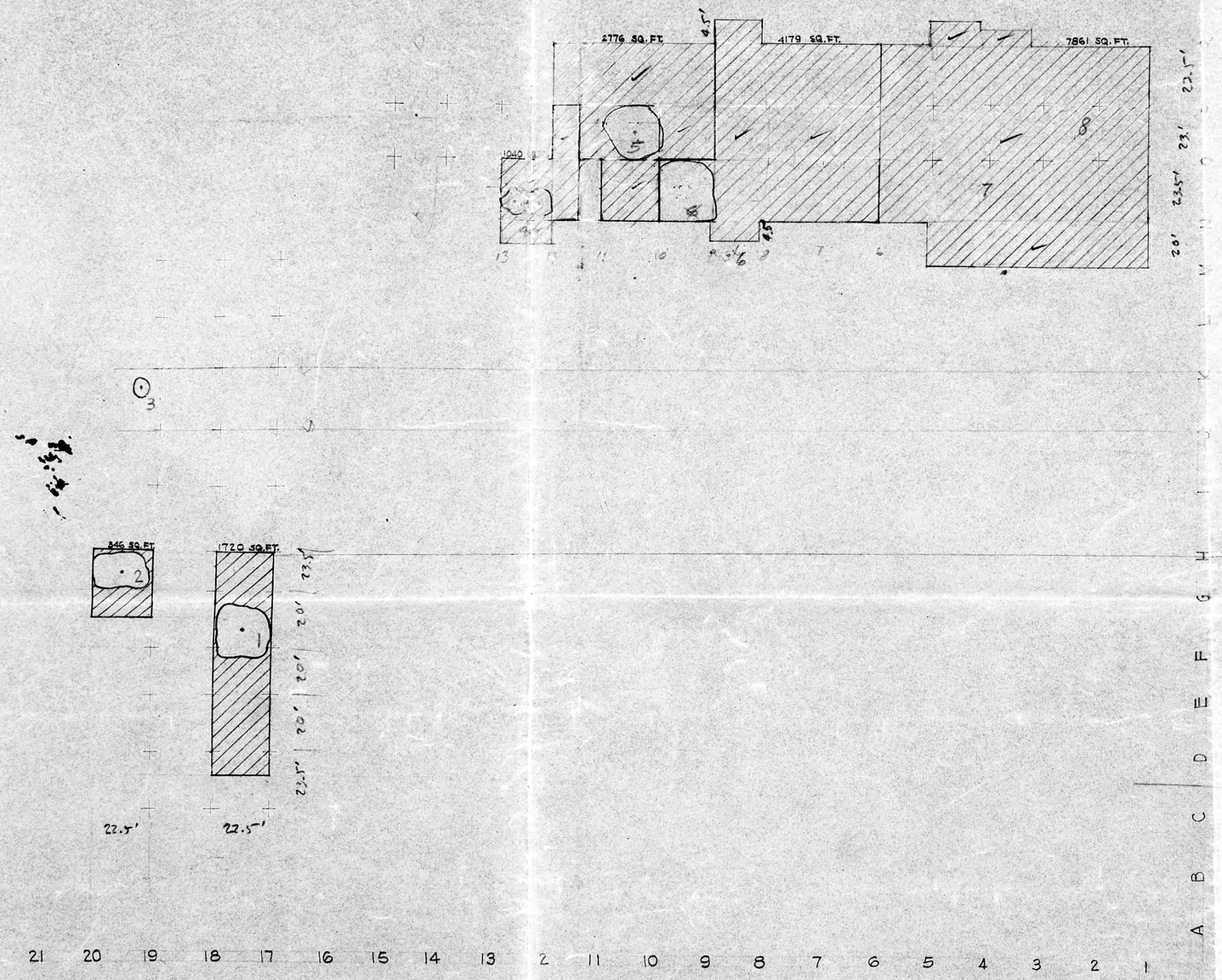




21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H

By MK-M NARA, Date 3/5/91



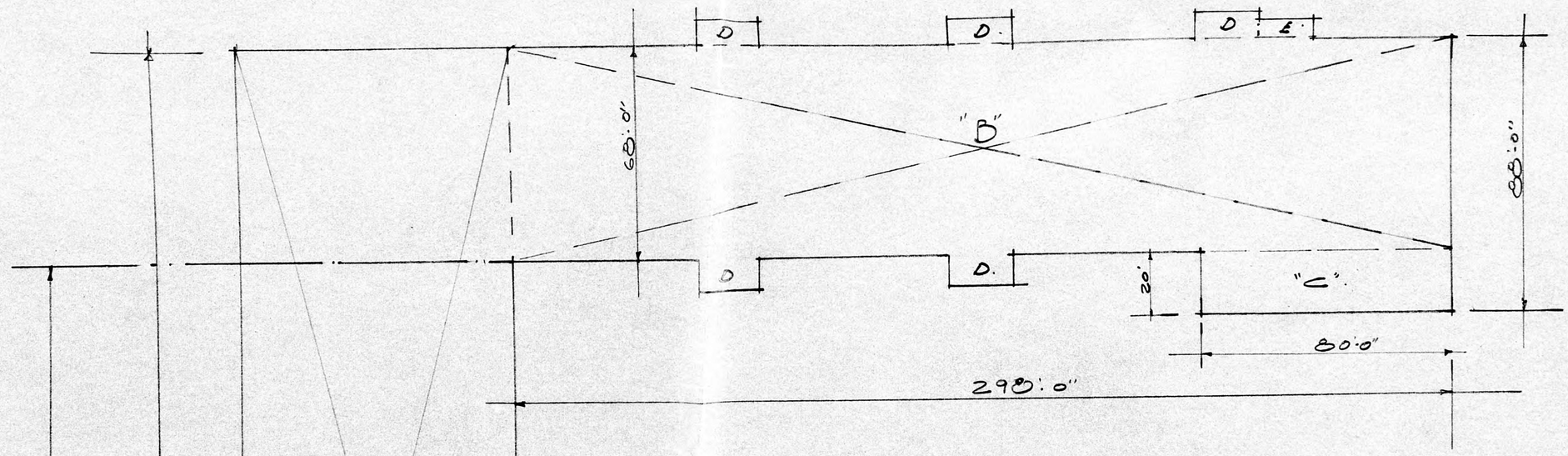
2nd FL.

1 & 2	3	4	5 & 6	7 & 8
2904	0	1078	8281	9271

NAKAJIMA

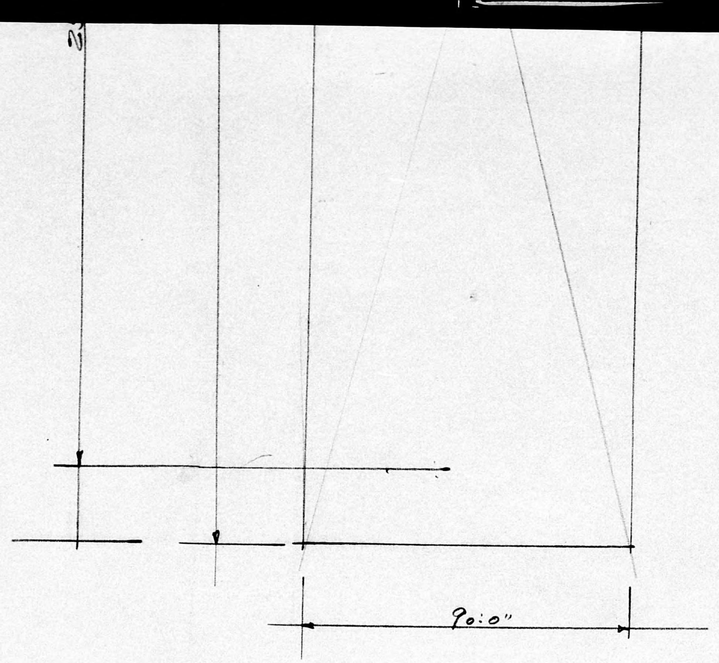
OVERLAY PLAN BLDG #1
2nd FLOOR
$\frac{1}{32}$" = 1'-0"

By HR-M NARA, Date 3/5/91



AREA "A" = 346:0" × 90:0" = 31,140#
" "B" = 298:0" × 68:0" = 20,264#
" "C" = 80:0" × 20:0" = 1600#
" "D" = 10'×20'×(5) = 1000#
" "E" = 7'×20' = 140#
TOTAL 54,144

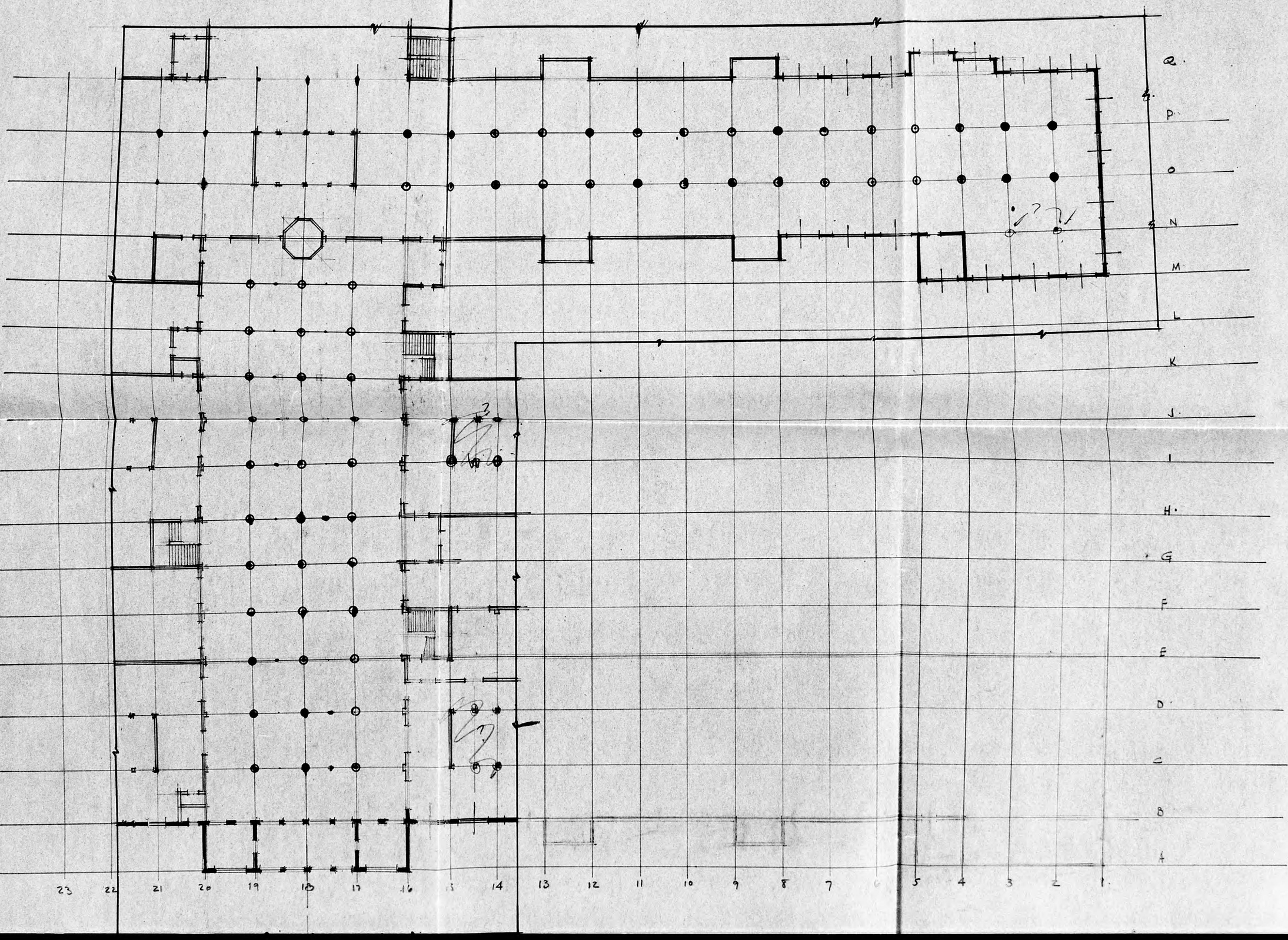
FOURTH FL. ROOF = 90:0" × 256:0" = 23,040#



" "E" = 7'x20' : 1,404#

TOTAL 54,144 ✓

FOURTH FL. ROOF = 90:0" x 256:0" = 23,040#


Q
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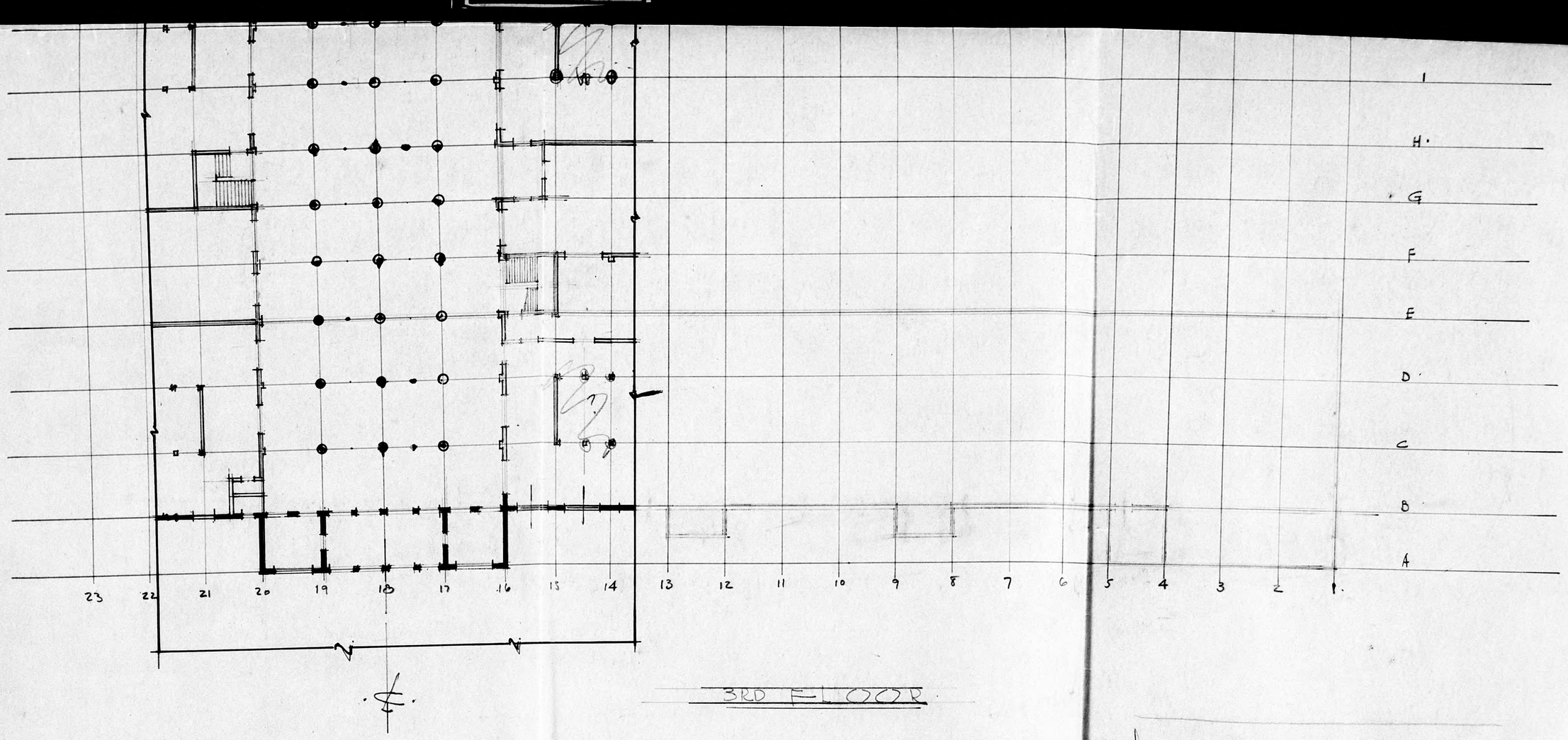
3
2
1



3RD FLOOR

Plans Req'd.

Plan.

1. 4½ Fl. Roof.
2. 4th Fl - Roof of Tun. Bldg.
3. 3rd Fl
4. 2nd Fl.
5. 1st Fl.

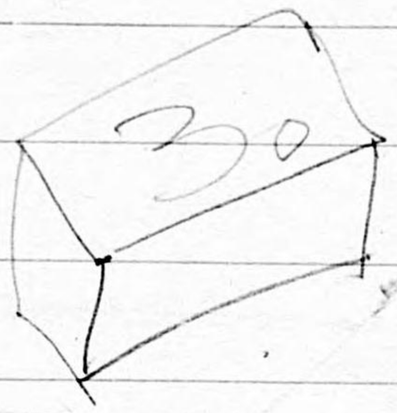
CAPT. WELLS, TEAM #6 POD

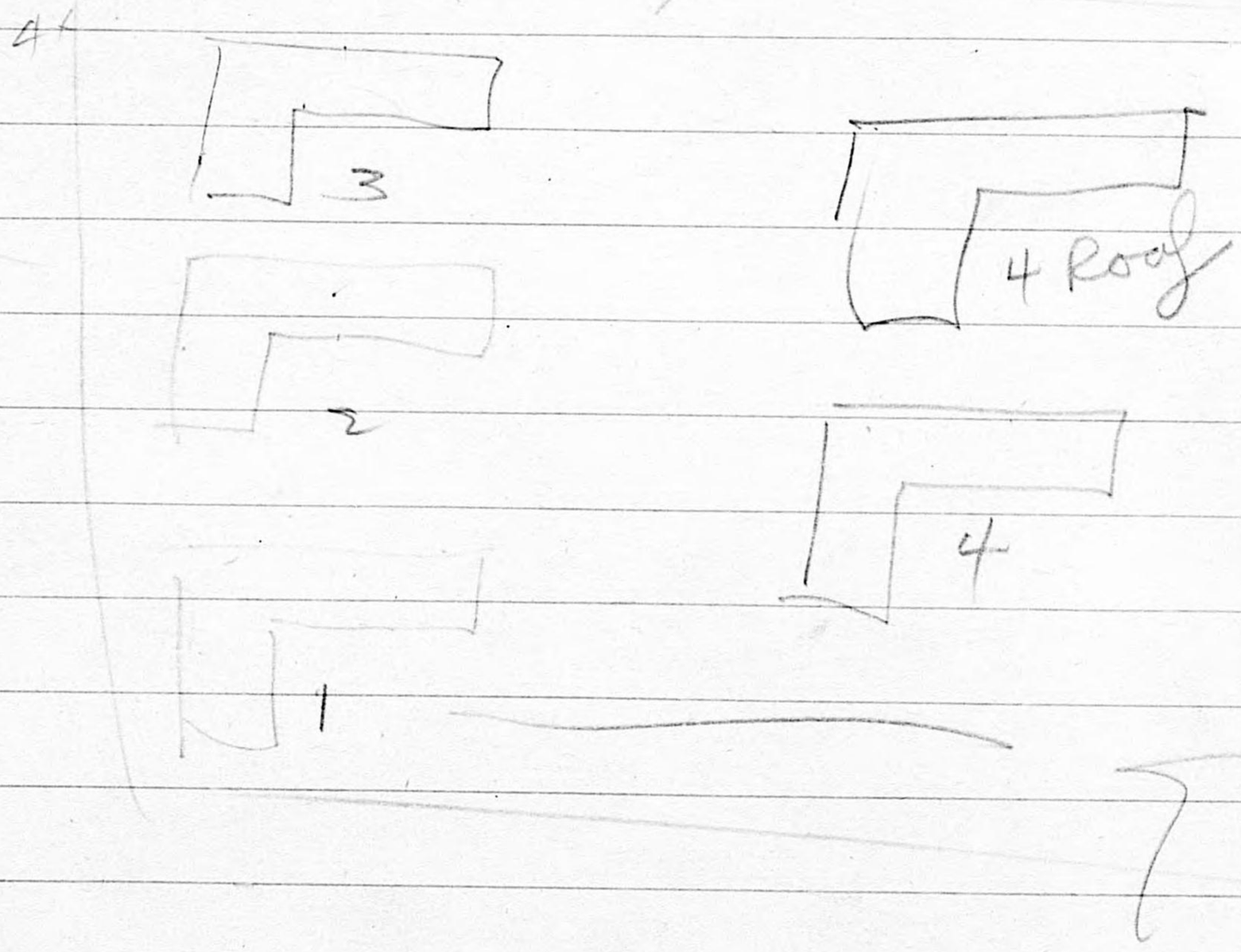
CPT 3066.

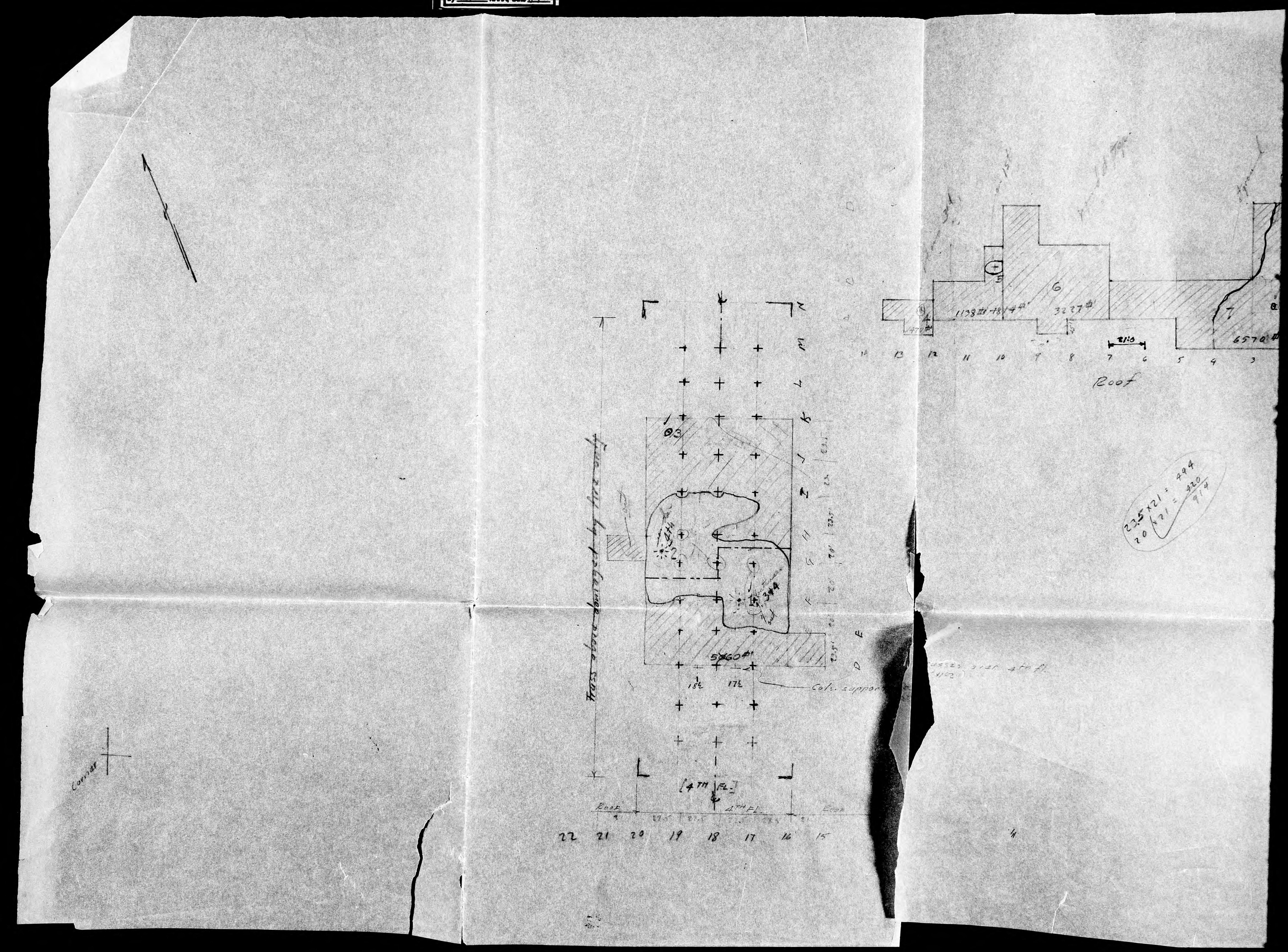
show wiring #E 6007.

(2 drops to shed)

Remind Tracy of sect. 6 & 7.

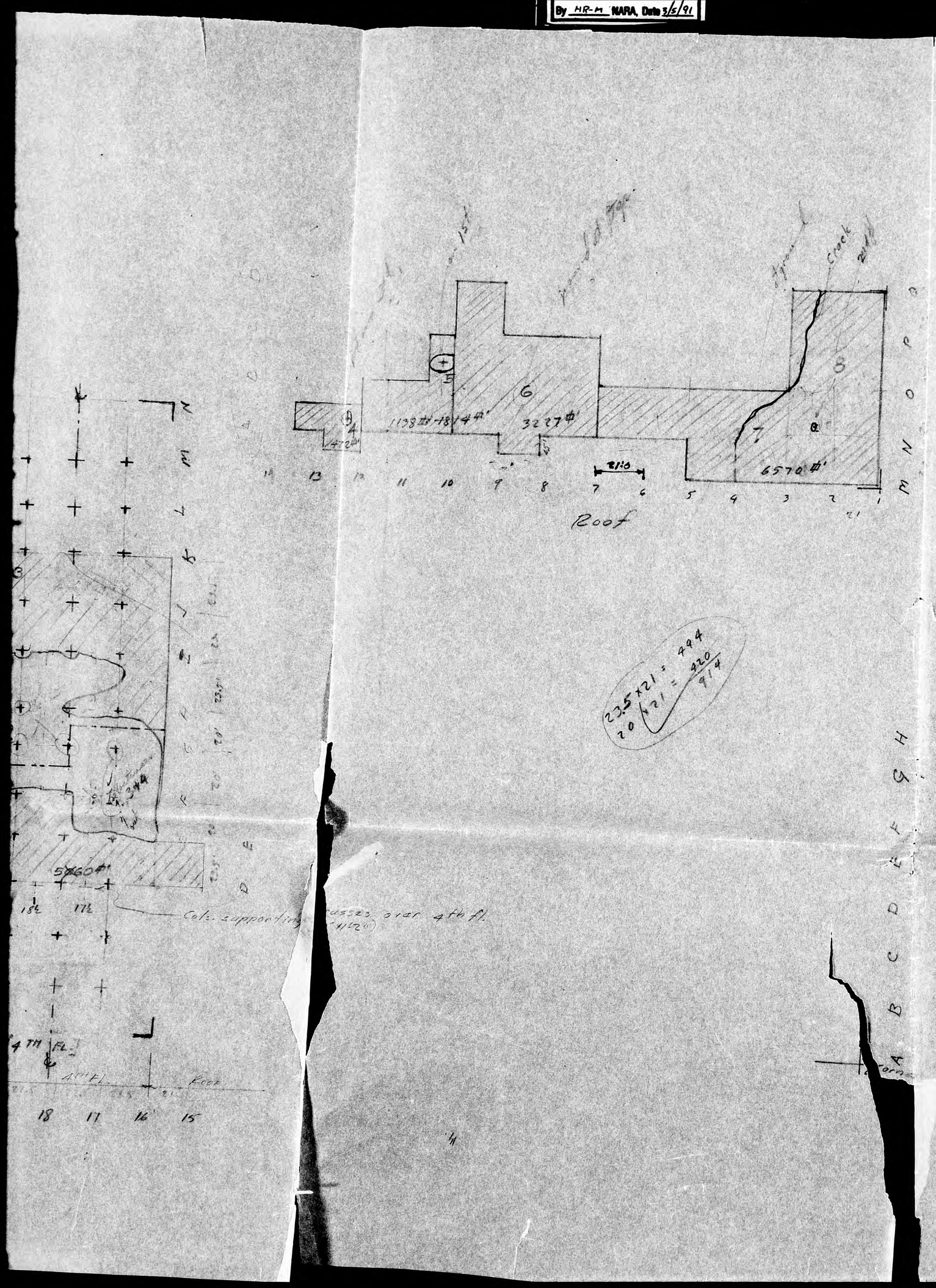






Roof
1138#
1814#
3227#
6570#
21:0
Truss above damaged by fire
5060#
Cols. support
[4TH FL.]
4TH FL.
Roof
Roof
22 21 20 19 18 17 16 15
Corner
23.5 x 21 = 494
20 x 21 = 420
914

By HR-M NARA, Date 3/5/91



STRUCTURAL DAMAGE

ROOF				4TH FL.		
4	5	6	7 & 8	1	2	3
463	1229	3658	6570	6294	7620	4
	4887					

3658
1229
4887

6294
7620
13914

23.5 x 21 = 494
20 x 21 = 420
914

NA7

NAKAJIMA

OVERLAY SHT.

ROOF OR 4TH FL. BLDG #11