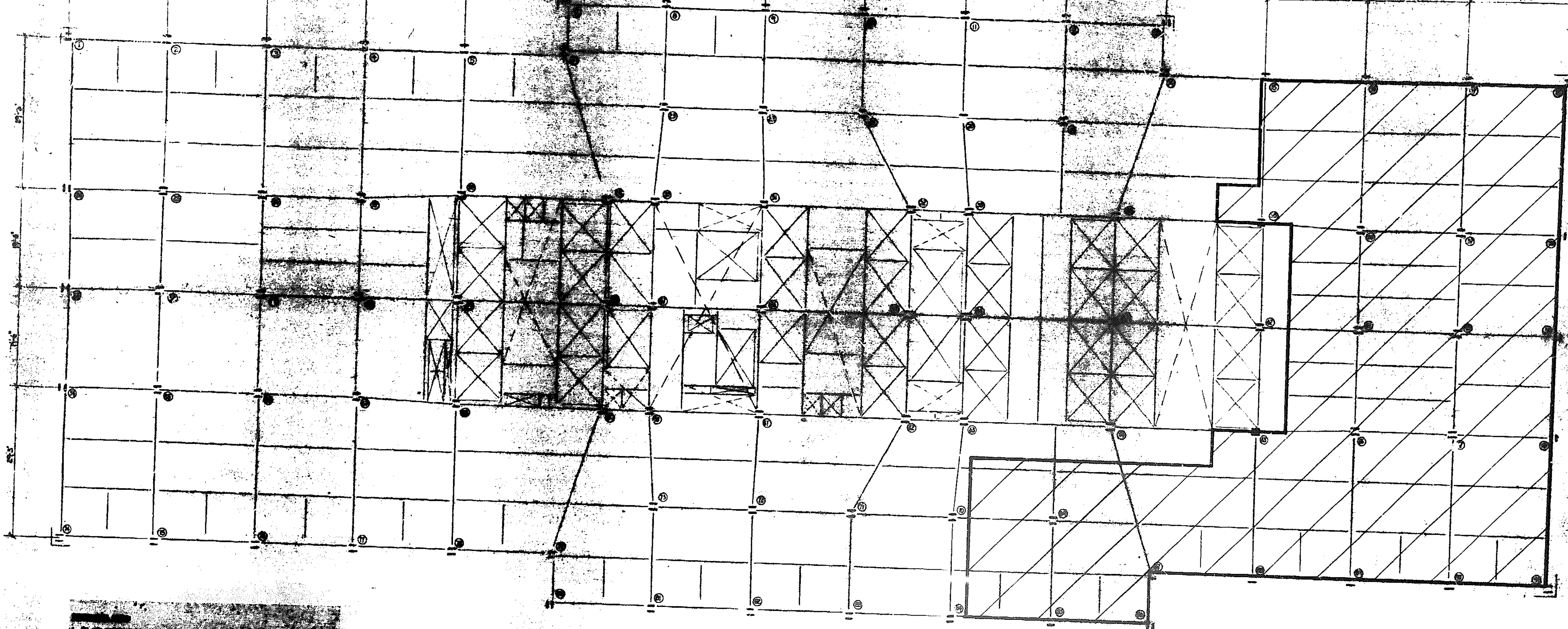
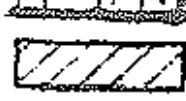


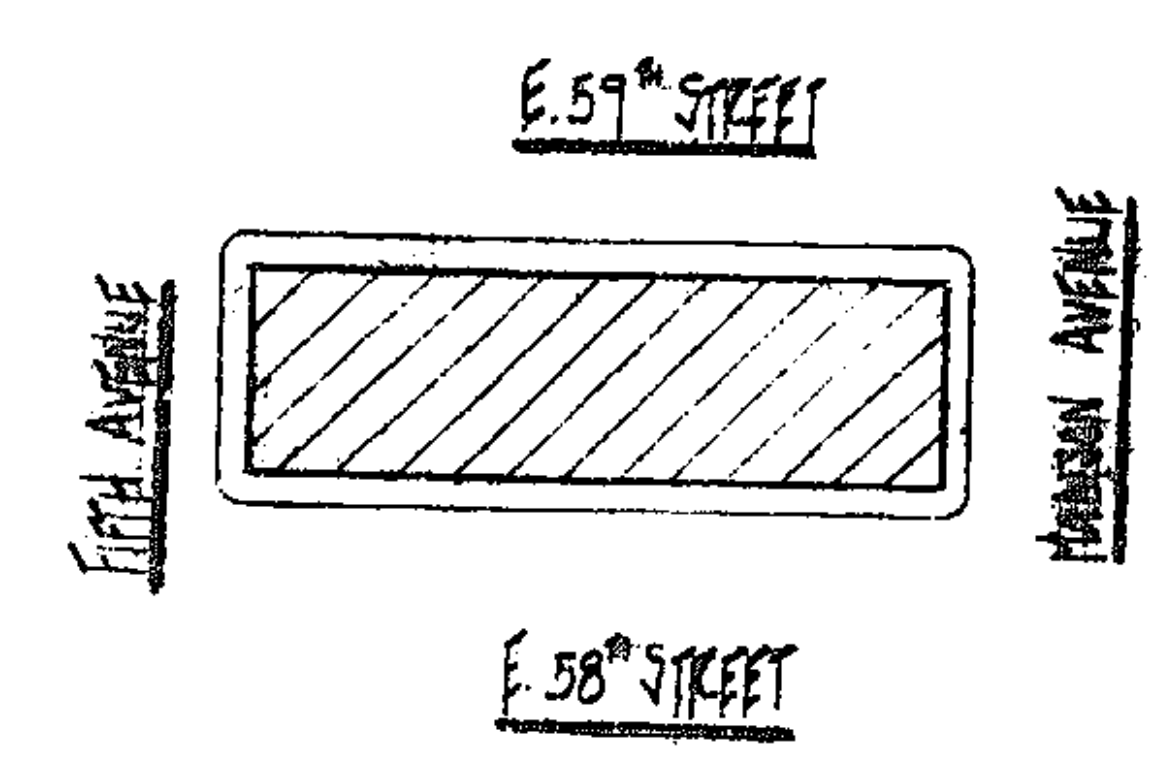
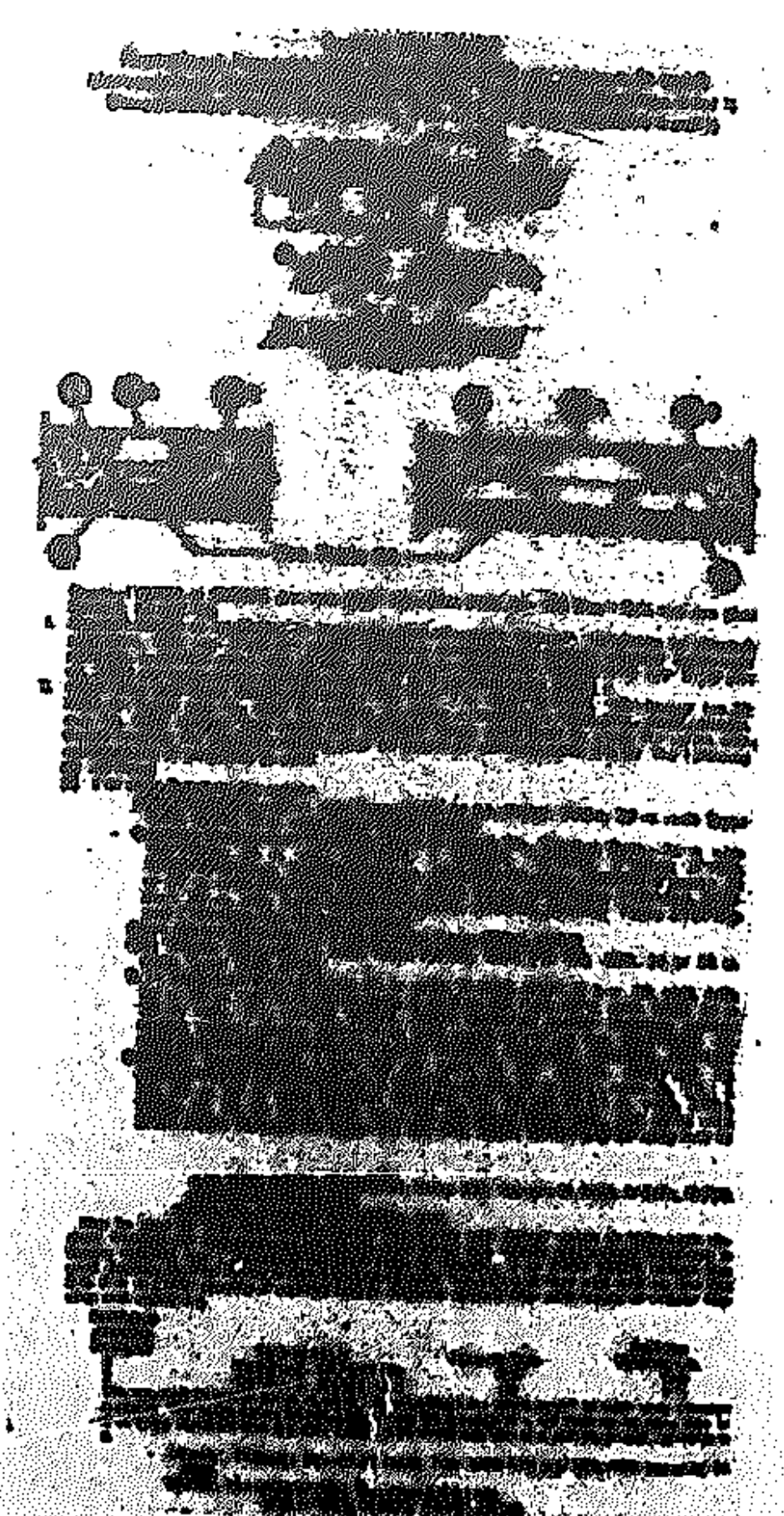
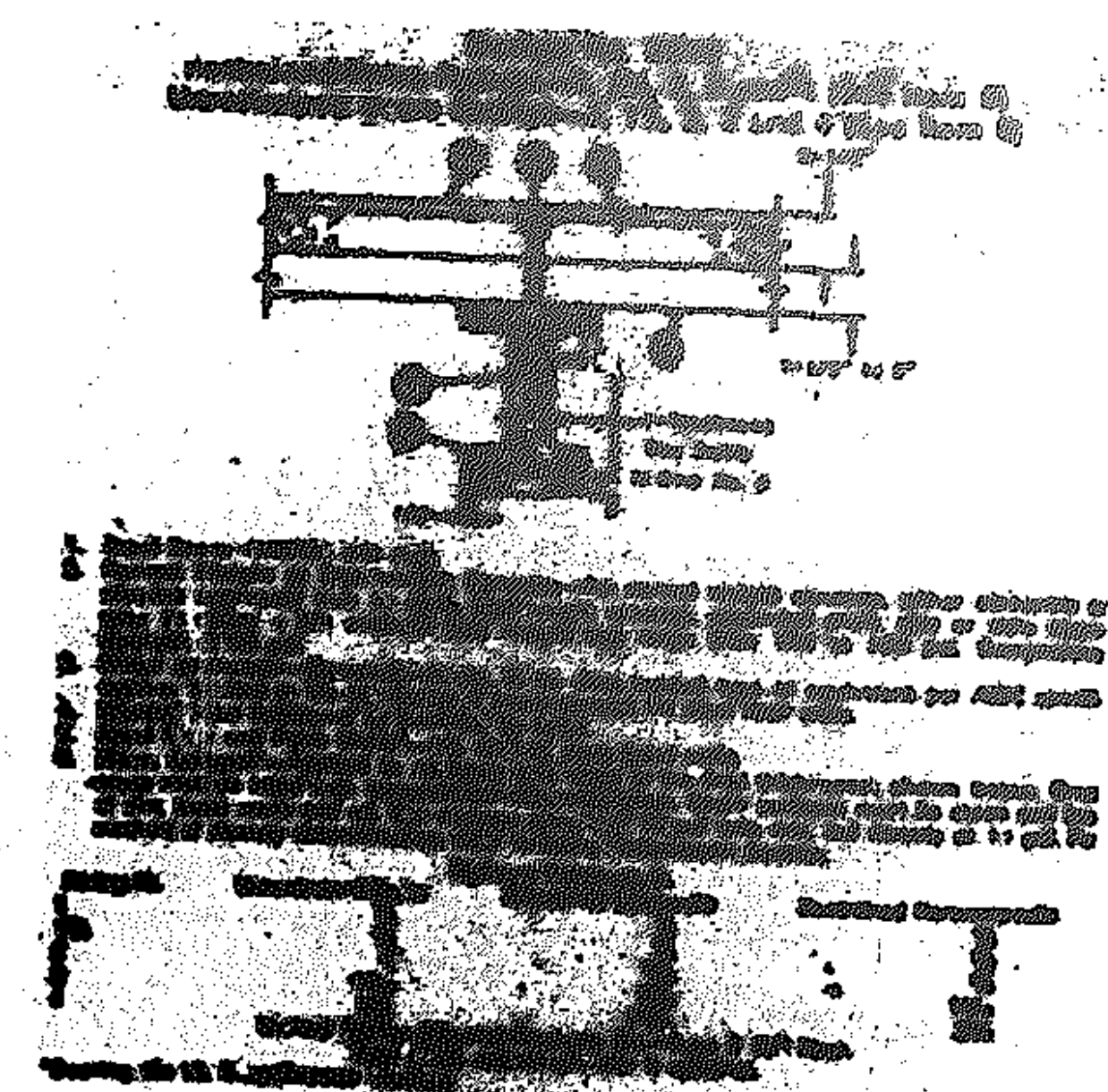




LEGEND:
 AREA OF WORK

NOTES:

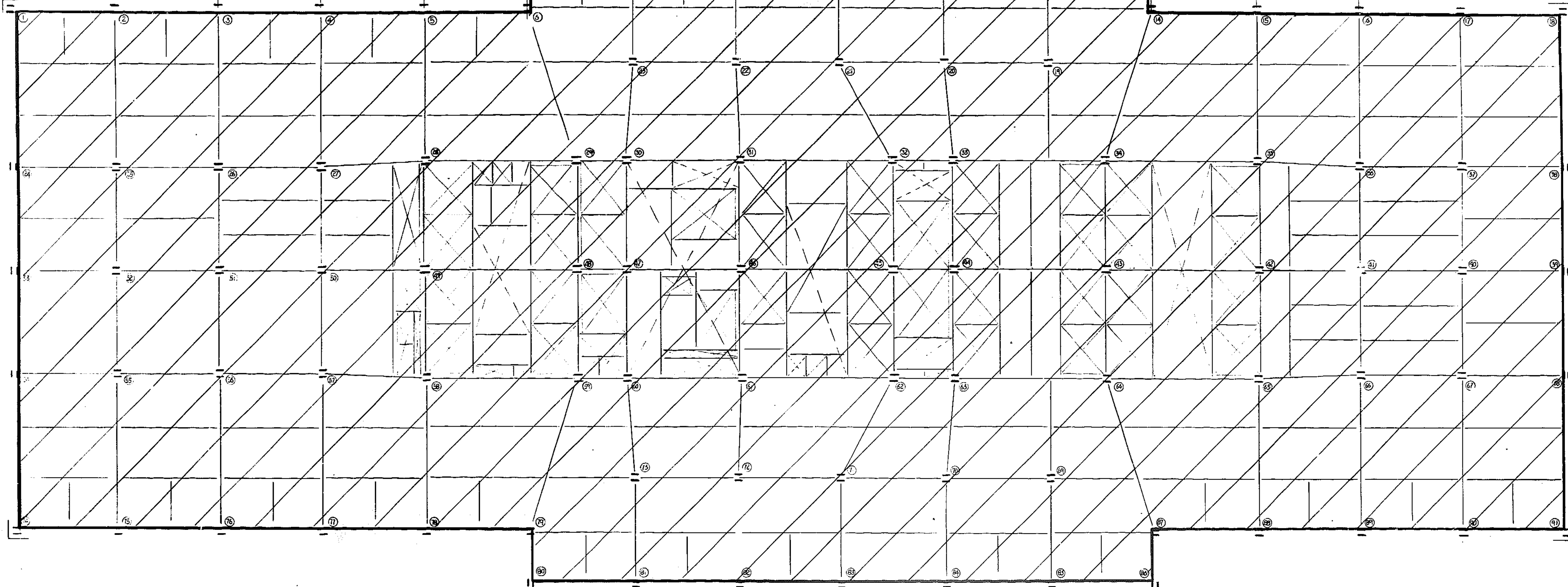
1. The area of work is shown by the cross-hatch pattern.
2. The area of work is shown by the cross-hatch pattern.
3. The area of work is shown by the cross-hatch pattern.
4. The area of work is shown by the cross-hatch pattern.
5. The area of work is shown by the cross-hatch pattern.
6. The area of work is shown by the cross-hatch pattern.
7. The area of work is shown by the cross-hatch pattern.
8. The area of work is shown by the cross-hatch pattern.
9. The area of work is shown by the cross-hatch pattern.
10. The area of work is shown by the cross-hatch pattern.
11. The area of work is shown by the cross-hatch pattern.
12. The area of work is shown by the cross-hatch pattern.
13. The area of work is shown by the cross-hatch pattern.
14. The area of work is shown by the cross-hatch pattern.
15. The area of work is shown by the cross-hatch pattern.
16. The area of work is shown by the cross-hatch pattern.
17. The area of work is shown by the cross-hatch pattern.
18. The area of work is shown by the cross-hatch pattern.
19. The area of work is shown by the cross-hatch pattern.
20. The area of work is shown by the cross-hatch pattern.



ACCEPTABLE FOR PDMP
 UNDER DIRECTIVE NO. 14/1975
 DEC 13 1988
 KWABI A. AMEGAH

BN 10000/88

STELLA ZONE LABORATORY INC.
 34-28 12th STREET
 NEW YORK, N.Y. 10019
 TEL: (212) 696-1111



FIREPROOFING NOTES:

1. ALL NEW FIREPROOFING MATERIAL SHALL BE "SPRAY-ON FIREPROOFING" MANUFACTURED BY UNIT-J STATES MINERAL PRODUCT CO. KNOWN AS CAPCO BLAZE SHIELD D.C./F FIBER.

2. ALL STEEL BEAMS UNLESS FIREPROOFED BY CONCRETE, SHALL RECEIVE NEW SPRAY-ON FIREPROOFING TO QUALIFY FOR 3-HOUR FIRE RATING UNDER U.L. DESIGN NO. D 832 WITH MIN. THICKNESS OF 5/8 INCH.

3. ALL STEEL DECK SHALL RECEIVE NEW SPRAY-ON FIREPROOFING TO QUALIFY FOR 3 HOURS UNDER U.L. DESIGN NO. D832 WITH THE FOLLOWING MIN THICKNESS:

a) FLUTED DECK MIN 1 1/4" APPLIED AT CHEST.

b) CELLULAR DECK PLAT PLATES AND VALLEYS OF FLUTED DECK MIN OF 1".

AS APPROVED FOR THIS FLOOR ASSEMBLY BY B.S.A.A. CALIBRATOR NO. 195-65 SH DATED AUGUST 21, 1986.

4. ALL STEEL COLUMNS GREATER THAN W10X49 UNLESS FIREPROOFED BY CONCRETE OR MASONRY, SHALL RECEIVE SPRAY-ON FIREPROOFING TO QUALIFY FOR 4 HOUR FIRE RATING UNDER U.L. DESIGN NO. X 801 WITH MIN THICKNESS OF 2 1/8 OF TYPE D-C/F FIBER. SUPPLIER SHALL SUBMIT B.S. & A APPROVALS BEFORE STARTING WORK.

5. FLOOR CONSTRUCTION: STEEL DECK & BEAMS SHALL BE FIREPROOFED FOR A 3 HOUR RATING (U.L. DESIGN N 816.).

6. COLUMNS SHALL BE FIREPROOFED FOR A 4 HOUR RATING (U.L. DESIGN X 801)

7. SEE THIS DGC FOR U.L. DESIGN NO. OF THESE ASSEMBLIES AND COLUMNS. CONTRACTOR SHALL SUBMIT B.S. & A APPROVALS.

8. THICKNESS OF FIREPROOFING MATERIAL SHALL BE AS REQUIRED BY U.L. DESIGNS AS SHOWN IN THIS DGC.

9. ALL MATERIAL IN THEIR APPLICATION SHALL BE IN COMPLIANCE WITH THE CODE AND REGULATIONS OF THE CITY OF NEW YORK AND AS PER MANUFACTURER SPECIFICATIONS.

10. THE ENTIRE APPLICATION SHALL BE SUBJECT TO TESTING FOR THICKNESS & DENSITY IN ACCORDANCE WITH ASTM D805 - STANDARD TEST METHOD FOR THICKNESS OF SPRAYED FIRE RESISTIVE MATERIAL APPLIED TO STRUCTURAL MEMBERS, AND FOR COMPRESSION/ADHESION AS PER ASTM E736, AND AS REQUIRED BY THE NEW YORK CITY BUILDING CODE.

11. THE ENTIRE JOB SHALL BE INSPECTED BY AN APPROVED AGENCY WHO WILL SUBMIT REPORT OF THE INSPECTION TO THE ENGINEER.

ALTERNATES AND SUBSTITUTES

1. OTHER FIREPROOFING MAY BE USED BY CONTRACTORS TO PROVIDE 3 HOURS FIRE RATING FOR FLOOR ASSEMBLIES AND 4 HOURS FOR COLUMNS.

2. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, COPIES OF MANUFACTURER SPECIFICATIONS, U.L. DESIGN AND B.S. & A CALIBRATOR NO OF APPROVAL.

BOUND OF STANDARDS & APPROVALS

1) BSA # For Columns 194-65-SH

2) BSA # For Beams 137-56-SH

3) BSA # For Decks 195-65-SH

FIRE RATING PLAN

1. WARNING SIGNAL SYSTEM

a. Signal system notifying job area personnel of imminent danger will be audible type (eg. siren, alarm, etc.).

b. Sirens shall be coded (eg. one long siren, two long siren, all clear) and Code shall be continuously displayed on all floors.

c. Signal will be given from central location as designated by Site Safety Manager.

d. Sirens will be monitored by radio equipped personnel monitoring the job during the work day.

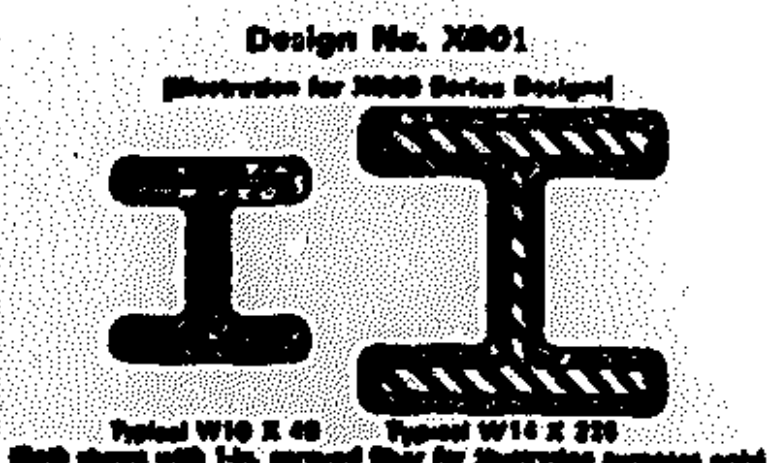
2. PROHIBITION SIGNS

a. All entrance shall be clearly marked.

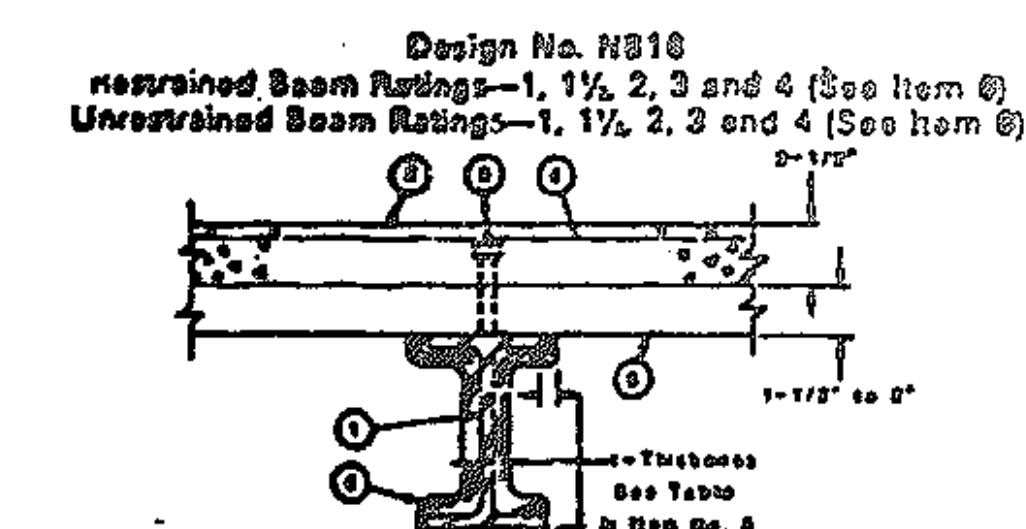
b. Entry shall be properly restricted and flow of traffic.

3. FLOOD PREVENTION MEASURES

a. Employees will be instructed by supervisors with knowledge of flood prevention measures.

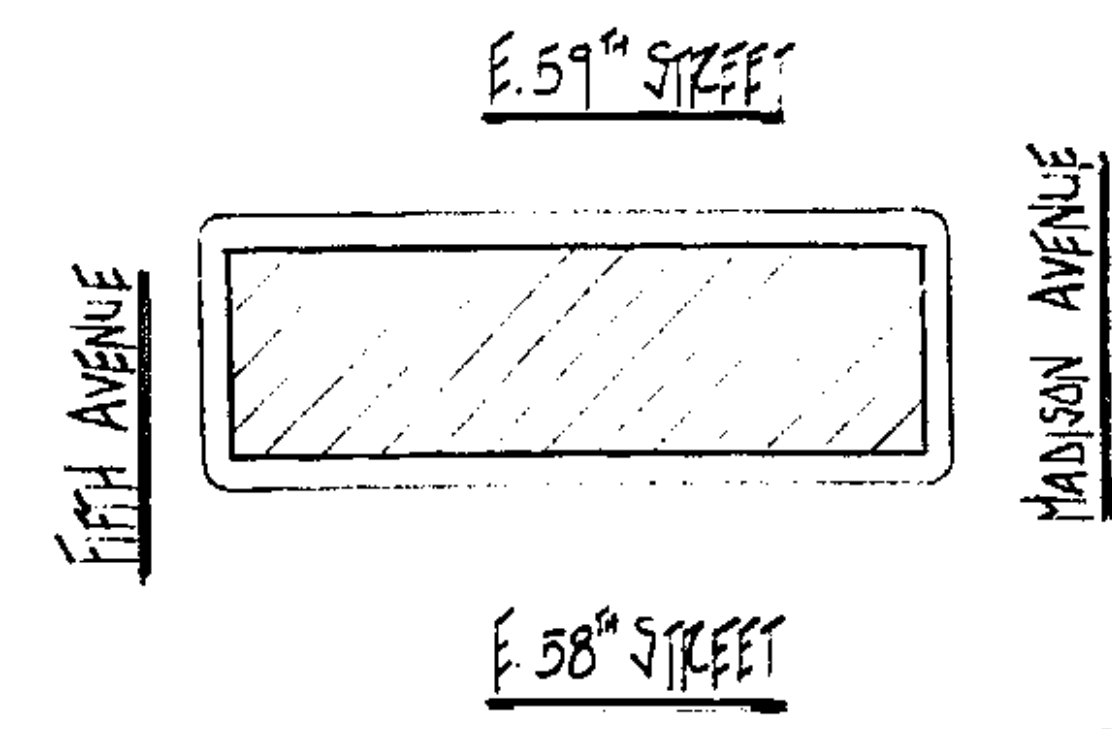


Design No. X801
Rating: 4 Hr.
For Beams - W10 X 49
For Columns - W10 X 29
Both shown with fireproofing for illustration purposes only.



Design No. N816
Restrained Beam Ratings - 1, 1 1/2, 2, 3 and 4 (See Item 6)
Unrestrained Beam Ratings - 1, 1 1/2, 2, 3 and 4 (See Item 6)

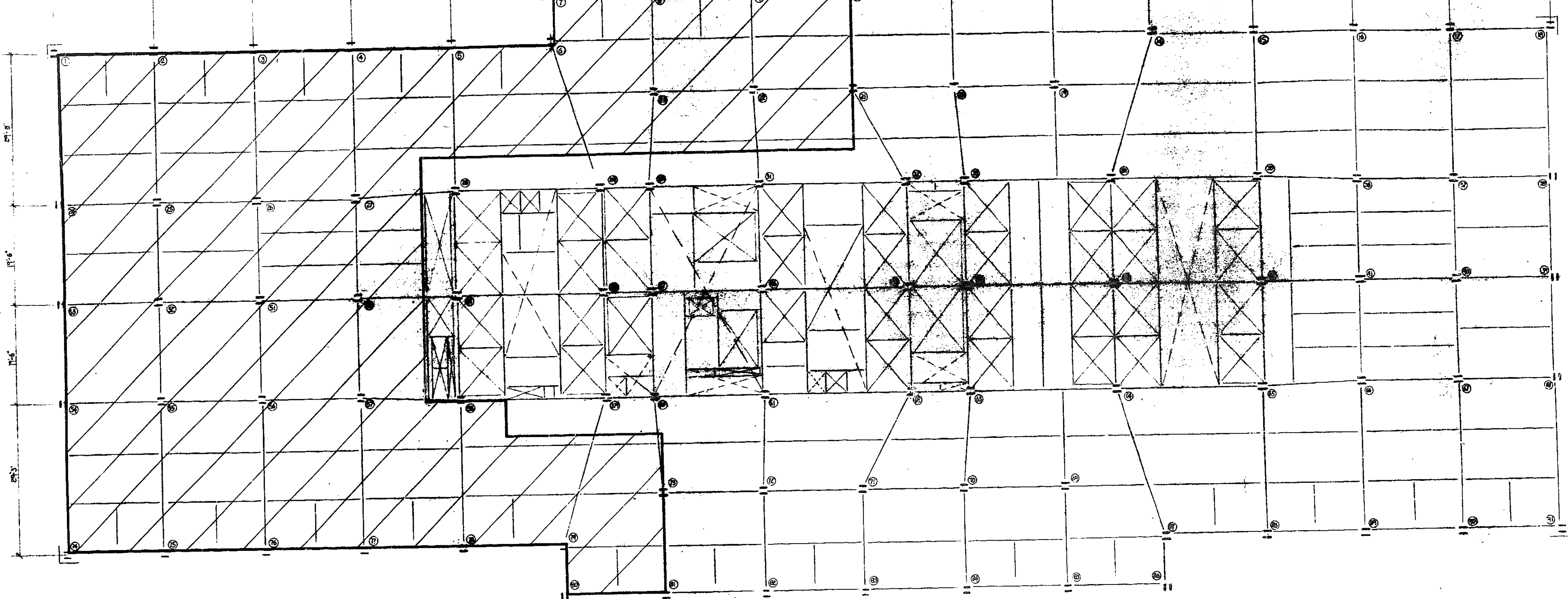
LEGEND:
— AREA OF WORK



ACCEPTABLE FOR PERMIT
UNDER DIRECTIVE NO. 147/1975
DEC 13 1986
HOWARD A. AMERSON

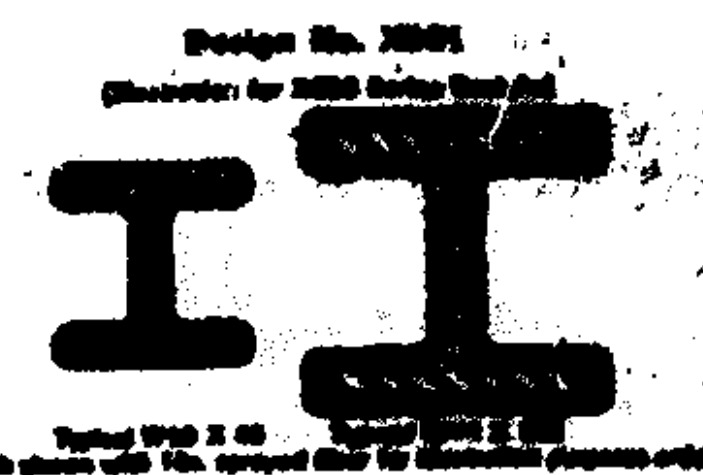


ESTWELL CRAG LABORATORIES INC.	
36-20 137 STREET	
LONG ISLAND CITY, N.Y. 11106	
DESIGNED BY: SB	DATE: 11-29-86
49TH FLOOR PLAN FOR FIREPROOFING	

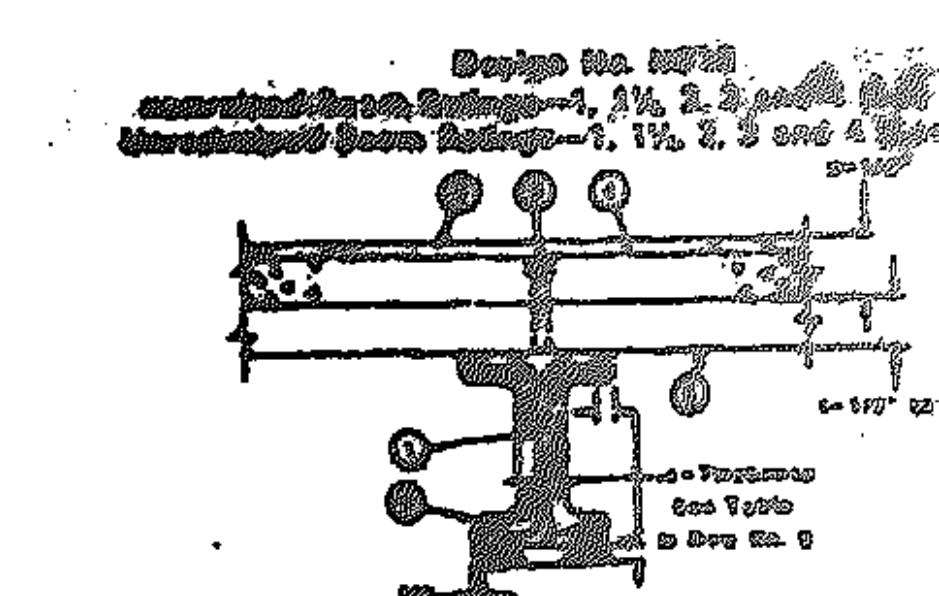


GENERAL NOTES

1. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
2. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
3. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
4. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
5. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
6. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
7. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
8. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
9. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
10. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
11. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
12. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
13. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
14. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
15. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
16. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
17. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
18. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
19. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.
20. ALL STRUCTURAL STEEL SHALL BE "A572-50" GRADE STEEL, UNLESS OTHERWISE SPECIFIED.

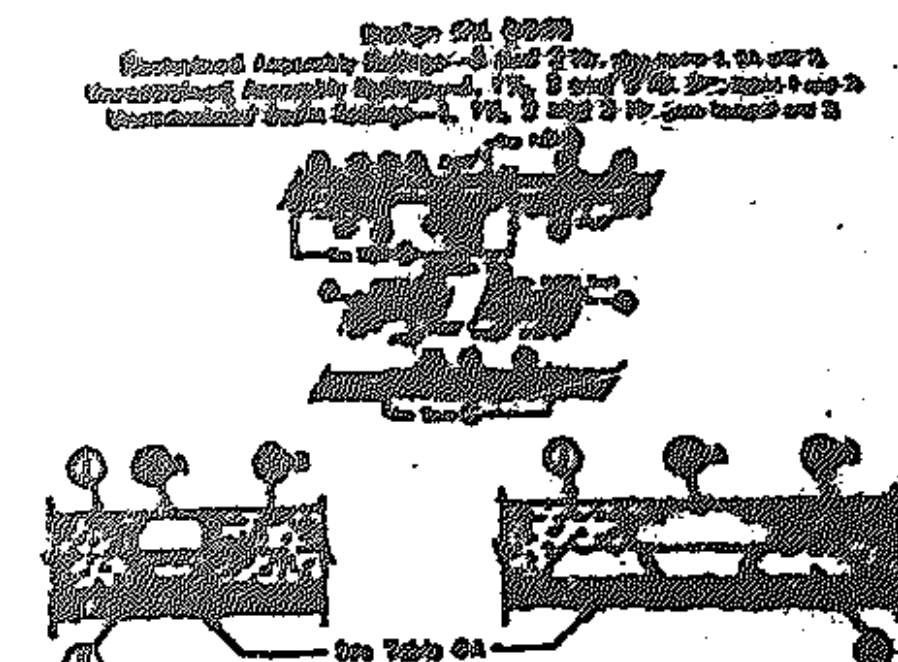


Design No. 1001
Section 1001
 I-beam section showing dimensions and labels for various parts.

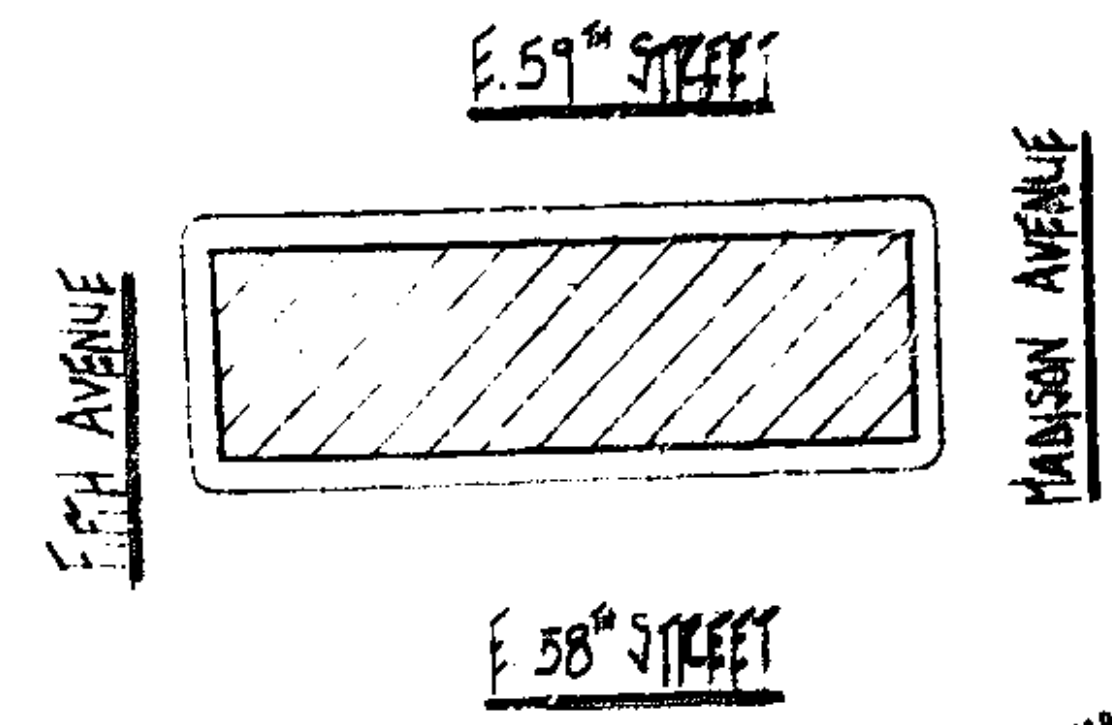


Design No. 1002
Section 1002
 I-beam section showing dimensions and labels for various parts.

LEGEND
 — AREA OF WORK



Design No. 1003
Section 1003
 I-beam section showing dimensions and labels for various parts.



ACCEPTABLE FOR PERMIT
 UNDER DIRECTIVE NO. 14/1975
 DEC 13 1988
 KWESI A. AMEGAH



BN 10000/88

APPROVED FOR PERMIT	DATE
UNDER DIRECTIVE NO. 14/1975	DEC 13 1988
KWESI A. AMEGAH	