NEW YORK CITY BUILDING CODE CALCULATIONS

OCCUPANCY CLASS:
F-1 ASSEMBLY WITH ACCESSORY OCCUPANCIES

STAIR CAPACITY NYC BLDG. CODE TABLES 6-1, 8-1

STAIR NO. 1 — STAIR = 2 E.U. @ 60 P./E.U. = 120 P.
DOOR = 1.5 E.U. @ 100 P./E.U. = 150 P.
CAPACITY = 120 PERSONS

STAIR NO. 2 — STAIR = 2 E.U. @ 60 P./E.U. = 120 P.
DOOR = 1.5 E.U. @ 100 P./E.U. = 150 P.
CAPACITY = 120 PERSONS

STAIR NO. 3 — STAIR = 2.5 E.U. @ 60 P./E.U. = 150 P.
DOOR = 2 E.U. @ 100 P./E.U. = 200 P.
CAPACITY = 150 PERSONS

OCCUPANT LOADS NYC BLDG. CODE SECTION 27-367

ASSEMBLY AREAS — 824 PERSONS (PATRONS AND STAFF)
OTHER STAFF — 71 PERSONS
LOCKER ROOMS — 184 PERSONS
TOTAL OCCUPANT LOAD = 1,080 PERSONS

TOTAL STAIR CAPACITY = 390 P. @ 3 AREAS OF REFUGE = 1170 PERSONS
TOTAL FLOOR CAPACITY
1080 P.OCCUPANT LOAD < 1,170 P.(FLOOR CAPACITY)

NOTE: EACH STAIR IS DESIGNED TO AN AREA OF REFUGE IN ADDITION.
ALL STAIRS ARE MUTUALLY ACCESSIBLE BY COMMON EXIT PASSAGES.

NUMBER OF EXITS FROM FLOOR NYC BLDG. CODE SECTION 27-360

ASSEMBLY AREA OCCUPANT LOAD = 779 PERSONS
FOR BETWEEN 500 AND 1000 PERSONS 3 EXITS FROM THE FLOOR ARE REQUIRED
THERE ARE 3 EXIT STAIRS

TRAVEL DISTANCES NYC BLDG. CODE TABLES 6-1, 8-1

OCCUPANCY CLASS F-1
PRIMARY — 122'-0" SPRINKLERED
SECONDARY — 182'-6" SPRINKLERED
OCCUPANCY CLASS E1 - 200'-0"
OCCUPANCY CLASS B-2, 200'-0"
OCCUPANCY CLASS B-3 150'-0"
OCCUPANCY CLASS B-3, 175'-0"
OCCUPANCY CLASS C1 - 200'-0"

FIRE SEPARATION/DIVISION BETWEEN OCCUPANCIES NYC BLDG. CODE TABLES 5-1, 5-2

BUILDING OCCUPANCY = E BUSINESS = FIRE INDEX 2

BETWEEN OCCUPANCIES:
F-1 & FIRE INDEX 2 / B-2 FIRE INDEX 2 = NO REQUIREMENT
F-1 & FIRE INDEX 2 / B-3 FIRE INDEX 2 = NO REQUIREMENT
F-1 & FIRE INDEX 2 / B-3 FIRE INDEX 3 = NO REQUIREMENT
F-1 & FIRE INDEX 2 / C FIRE INDEX 2 = NO REQUIREMENT
F-1 & FIRE INDEX 2 / C FIRE INDEX 3 = NO REQUIREMENT
B-2 & FIRE INDEX 2 / C FIRE INDEX 2 = NO REQUIREMENT
B-2 & FIRE INDEX 2 / B-3 FIRE INDEX 3 = 1 HOUR RATED DIVISION
B-2 & FIRE INDEX 2 / B-3 FIRE INDEX 2 = NO REQUIREMENT
B-3 & FIRE INDEX 2 / B-3 FIRE INDEX 3 = 1 HOUR RATED DIVISION
B-3 & FIRE INDEX 2 / C FIRE INDEX 2 = NO REQUIREMENT

DOOR CAPACITIES NYC BLDG. CODE TABLES 6-1, 8-1

OCCUPANCY F-1
ASSEMBLY SPACE = 60 PERSONS/E.U.
FROM SAFE AREA = 100 PERSONS/E.U.
OTHER DOORS = 60 PERSONS/E.U.
OCCUPANCY E1 100 PERSONS/E.U.
OCCUPANCY B-2 60 PERSONS/E.U.
OCCUPANCY B-3 60 PERSONS/E.U.
OCCUPANCY C1 60 PERSONS/E.U.
OCCUPANCY C1 100 PERSONS/E.U.

NOTE: ALL DOORS IN 2 HOUR RATED WALLS ARE 1½ LABEL, SELF CLOSING.
ALL DOORS IN 1 HOUR RATED WALLS ARE ¾ LABEL, SELF CLOSING.

CORRIDORS, EXIT PASSAGEWAYS AND SAFE AREA CAPACITIES NYC BLDG. CODE TABLES 6-1, 8-1

OCCUPANCY F-1 60 PERSONS/E.U. (2'-0" MIN. WIDTH, SAFE AREA - 8'-0" MIN. WIDTH)
OCCUPANCY E1 100 PERSONS/E.U. (3'-0" MIN. WIDTH)
OCCUPANCY B-2 100 PERSONS/E.U. (3'-0" MIN. WIDTH)
OCCUPANCY B-3 75 PERSONS/E.U. (3'-0" MIN. WIDTH)
OCCUPANCY B-3 75 PERSONS/E.U. (3'-0" MIN. WIDTH)
OCCUPANCY C1 100 PERSONS/E.U. (3'-0" MIN. WIDTH)

KEY NOTES

1. OCCUPANT LOAD OF ROOM IS LESS THAN 10 S.F. PER PERSON, THEREFORE A CLASS I EXIT IS REQUIRED, 1 NYC BLDG. CODE SECTION 27-334(d)
2. NOT USED ON THIS SHEET
3. OCCUPANT LOAD OF ROOM IS GREATER THAN 75 PERSONS, THEREFORE 2 EXITS ARE REQUIRED. NYC BLDG. CODE SECTION 27-350
4. NOT USED ON THIS SHEET
5. 12'-0" MAXIMUM TO THE NEAREST AISLE NYC BLDG. CODE SECTION 27-526(a)(5)
6. NOT USED ON THIS SHEET
7. NOT USED ON THIS SHEET
8. THE STATED OCCUPANT LOAD FOR THIS SPACE IS BASED ON A STANDING ROOM RECEPTION S THE FURNITURE LAYOUT IS SHOWN TO INDICATE TRAVEL DISTANCES AND EGRESSWAYS ONLY.

LEGEND

- AREA OF REFUGE BOUNDARY / 2 HOUR RATED SEPARATION
- SAFE AREA BOUNDARY / 2 HOUR RATED SEPARATION
- 1 HOUR RATED DIVISION
- 2 HOUR RATED DIVISION
- 100 P. / 1.5 E.U. — EXIT SIGN (NUMBER INDICATES CAPACITY OF EXIT IN PERSONS AND EXIT UNITS)
- (1) KEY NOTE
- (SAR) INDICATES CAPACITY OF CORRIDOR, EXIT PASSAGE, SAFE AREA, OR STAIR
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE

NOTED THE PROPOSED DESIGN COMPLIES WITH THE REQUIREMENTS OF THE FEDERAL AMERICANS WITH DISABILITIES ACT (ADA), PUBL-336.

AREA OF REFUGE NO. 3

OCCUPANT LOAD - 382 PERSONS (STAFF)
OCCUPANCY E - 295 PERSONS
OCCUPANCY B-2 - 17 PERSONS

DOOR CAPACITY TO EXIT STAIR /AREAS OF REFUGE=720 PERSONS

THERE MUST BE DOOR CAPACITY FOR TWO THIRDS OF THE OCCUPANT LOAD OF A.R. 3 TO EXIT TO A.R. 1 AND A.R. 2 N.Y.C. BUILDING CODE SECTION 27-357.

2/3 OF 382 P. = 282 PEOPLE AND MUST EXIT TO A.R. 2 AND A.R. 3.

TOTAL DOOR CAPACITY FROM A.R. 3 TO A.R. 1 = 240 PERSONS.
TOTAL DOOR CAPACITY FROM A.R. 3 TO A.R. 2 = 360 PERSONS.
680 P. > 282 P. THEREFORE OK.

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 3 TO AREA OF REFUGE NO. 2 = 360 PERSONS.

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 3 = 150 PERSONS.

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 3 TO AREA OF REFUGE NO. 1 = 195 PERSONS.

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 1 TO AREA OF REFUGE NO. 2 = 195 PERSONS.

AREA OF REFUGE NO. 1

OCCUPANT LOAD = 208 PERSONS (PATRONS AND STAFF)
DOOR CAPACITY TO SAFE AREA/AREA OF REFUGE=575 PERSONS

THERE MUST BE DOOR CAPACITY FOR TWO THIRDS OF THE OCCUPANT LOAD OF A.R. 1 TO EXIT TO A.R. 2 AND A.R. 3 N.Y.C. BUILDING CODE SECTION 27-357.

2/3 OF 208 P. = 133 PEOPLE WHO MUST EXIT TO A.R. 2 AND A.R. 3.

TOTAL DOOR CAPACITY FROM A.R. 1 TO A.R. 2 = 0 PERSONS.
TOTAL DOOR CAPACITY FROM A.R. 1 TO A.R. 3 = 195 PERSONS.
195 P. > 133 P. THEREFORE OK.

AREA OF REFUGE NO. 2

OCCUPANT LOAD = 573 PERSONS (PATRONS AND STAFF)
DOOR CAPACITY TO SAFE AREA/AREA OF REFUGE=1,145 PERSONS

THERE MUST BE DOOR CAPACITY FOR TWO THIRDS OF THE OCCUPANT LOAD OF A.R. 2 TO EXIT TO A.R. 1 AND A.R. 3 N.Y.C. BUILDING CODE SECTION 27-357.

2/3 OF 288 P. = 386 PEOPLE WHO MUST EXIT TO A.R. 1 AND A.R. 3.

TOTAL DOOR CAPACITY FROM A.R. 2 TO A.R. 1 = 550 PERSONS.
TOTAL DOOR CAPACITY FROM A.R. 2 TO A.R. 3 = 150 PERSONS.
700 P. > 386 P. THEREFORE OK.

QUAD "C" SEE SHEET

QUAD "B" SEE SHEET A070

SAFE AREA #1
OCCUPANT CLASS E
1 PERSON / 2 S.F. PER PERSON = 838 PERSON CAPACITY

SAFE AREA #2
OCCUPANT CLASS E
1 PERSON / 2 S.F. PER PERSON = 620 PERSON CAPACITY

CORRIDOR

KITCHEN
OCCUPANT CLASS B-2
9 PERSONS

DISHWASHING
OCCUPANT CLASS B-2
4 PERSONS

RESERVATIONS
OCCUPANT CLASS E
5 PERSONS

OPEN OFFICE
OCCUPANT CLASS E
3 PERSONS

ARRIVAL

SERVICE

(1) 106TH FLOOR PLAN
SCALE: 1/8"=1'-0"

(2) MEZZANINE PLAN
SCALE: 1/8"=1'-0"

RECEIVED
OCT 11 1995
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211 E. 46th ST., N.Y., N.Y.C. 10017

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NEW YORK CITY, NEW YORK
HARDY HOLZMAN PFEIFFER ASSOCIATES

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BLDG. 2 — NORTH — BLDG. 1

NO. DATE DIVISIONS:
JURISDICTION (VOLUNTARY SUBMISSION)
1 5/22/95 PA QUIRES/REVISIONS
2 10/9/95 ISSUE FOR CONSTRUCTION

TITLE: 106th FLOOR EGRESS PLAN

PROJECT NO. 5486.01
DATE:
SCALE: 1/8"=1'-0"
DRAWING NO. A011

TAA 951114.07