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 - 2.5 E.U. @ 60 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. @ 80 P./E.U. = 120 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 27-367.1

ASSEMBLY AREAS: 1872 PERSONS (PATRONS AND STAFF)
OTHER STAFF: 50 PERSONS
TOTAL OCCUPANT LOAD = 1138 PERSONS

TOTAL STAIR CAPACITY = 350 P. @ 3 AREAS OF REFUGE = 1178 PERSONS
TOTAL FLOOR CAPACITY

1138 P.≤OCCUPANT LOAD < 1178 P.≤FLOOR CAPACITY

NOTE: EACH STAIR IS ASSIGNED 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 27-366

PLACE OF ASSEMBLY NO. 3 (BANQUET): 444 P. ASSEMBLY SPACE OCCUPANT LOAD FOR 500 PERSONS 2 EXITS FROM THE FLOOR ARE REQUIRED THERE ARE 3 EXIT STAIRS

PLACE OF ASSEMBLY NO. 2 (BAR): 233 P. ASSEMBLY SPACE OCCUPANT LOAD FOR 500 PERSONS 2 EXITS FROM THE FLOOR ARE REQUIRED THERE ARE 3 EXIT STAIRS

PLACE OF ASSEMBLY NO. 3 (RESTAURANT): 295 P. ASSEMBLY SPACE OCCUPANT LOAD FOR 500 PERSONS 2 EXITS FROM THE FLOOR ARE REQUIRED THERE ARE 3 EXIT STAIRS

TRAVEL DISTANCES: NYC BLDG. CODE TABLES 6-4, 8-3

OCCUPANCY CLASS F-4:
RESTAURANT - 127'-0" SPRINKLED
RESTAURANT - 187'-0" SPRINKLED
OCCUPANCY CLASS B: 300'-0"
OCCUPANCY CLASS D-2: 250'-0"
OCCUPANCY CLASS B-3: 300'-0"
OCCUPANCY CLASS B-2A: 175'-0"
OCCUPANCY CLASS D: 200'-0"

FIRE SEPARATION/DIVISION BETWEEN OCCUPANCIES: NYC BLDG. CODE TABLE 5-1

BUILDING OCCUPANCY = E BUSINESS = FIRE INDEX 2

BETWEEN OCCUPANCIES:
F-4@FIRE INDEX 3 / B-2@FIRE INDEX 2 = NO REQUIREMENT
F-4@FIRE INDEX 3 / B-3@FIRE INDEX 2 = 2 HOUR RATED DIVISION
F-4@FIRE INDEX 3 / B-2A@FIRE INDEX 2 = NO REQUIREMENT
F-4@FIRE INDEX 3 / E@FIRE INDEX 2 = NO REQUIREMENT
F-4@NYC INDEX 1 / C@FIRE INDEX 2 = NO REQUIREMENT
D-2@FIRE INDEX 2 / E@FIRE INDEX 2 = NO REQUIREMENT
B-2@FIRE INDEX 2 / B-3@FIRE INDEX 2 = 2 HOUR RATED DIVISION
B-2@FIRE INDEX 2 / B-2A@FIRE INDEX 2 = NO REQUIREMENT
B-2@FIRE INDEX 2 / E@FIRE INDEX 2 = NO REQUIREMENT
B-2@FIRE INDEX 2 / B-3@FIRE INDEX 3 = 1 HOUR RATED DIVISION
E@FIRE INDEX 2 / B-3@FIRE INDEX 3 = NO REQUIREMENT

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

OCCUPANCY F-4:
FROM ASSEMBLY SPACE - 50 PERSONS/E.U.
FROM SAFE AREA - 100 PERSONS/E.U.
FROM OTHER AREAS - 60 PERSONS/E.U.
OCCUPANCY D: 100 PERSONS/E.U.
OCCUPANCY D-2: 80 PERSONS/E.U.
OCCUPANCY B-2: 60 PERSONS/E.U.
OCCUPANCY B-3: 60 PERSONS/E.U.
OCCUPANCY C: 60 PERSONS/E.U.

NOTE: -ALL DOORS IN 2 HOUR RATED WALLS ARE "B" LABEL, SELF CLOSING.
-ALL DOORS IN 3 HOUR RATED WALLS ARE "A" LABEL, SELF CLOSING.

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

OCCUPANCY F-4: 100 PERSONS/E.U. 12'-0" MIN. WIDTH, SAFE AREA - 0'-0" MIN. WIDTH
OCCUPANCY D: 100 PERSONS/E.U. 12'-0" MIN. WIDTH
OCCUPANCY B-2: 100 PERSONS/E.U. 12'-0" MIN. WIDTH
OCCUPANCY B-3: 75 PERSONS/E.U. 12'-0" MIN. WIDTH
OCCUPANCY B-2A: 75 PERSONS/E.U. 17'-0" MIN. WIDTH
OCCUPANCY C: 100 PERSONS/E.U. 12'-0" MIN. WIDTH

KEY NOTES

1. OCCUPANT LOAD OF ROOM IS LESS THAN 12 S.F. PER PERSON. THEREFORE A CLASS 1 EXIT IS REQUIRED. (NYC BLDG. CODE SECTION 27-524(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 27-353
4. PRE-FUNCTION (NON-SIMULTANEOUS OCCUPANCY).
5. CHAIRS ARE SPACED 1'-6" APART, THEREFORE, 12'-0" MINIMUM TO THE NEAREST AISLE (NYC BLDG. CODE SECTION 27-526(a)(5))
6. THE HUDSON "A", "B", "C", AND HUDSON LOUNGE ARE PRE-FUNCTION NON-SIMULTANEOUS SPACES THAT SERVE THE PINNACLE SUITES.
7. THE LIBERTY PRE-FUNCTION NON-SIMULTANEOUS SPACES SERVE THE LIBERTY SUITE.
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 CLEARANCES ONLY.

LEGEND

- AREA OF REFUGE BOUNDARY / 2 HOUR RATED SEPARATION
- AREA OF REFUGE BOUNDARY IN STORAGE SPACE BELOW - 2 HOUR RATED SEPARATION
- SAFE AREA BOUNDARY / 2 HOUR RATED SEPARATION
- 1 HOUR RATED DIVISION
- 2 HOUR RATED DIVISION
- EXIT SIGN (NUMBER INDICATES CAPACITY OF EXIT IN PERSONS AND EXIT UNITS)
- KEY NOTE
- INDICATES CAPACITY OF CORRIDOR, EXIT PASSAGE, SAFE AREA, OR STAIR
- PRIMARY TRAVEL DISTANCE
- SECONDARY TRAVEL DISTANCE

NOTE: THE PROPOSED DESIGN COMPLIES WITH THE REQUIREMENTS OF THE FEDERAL AMENDMENTS WITH DISABILITIES ACT (FAIR, PL101-336).

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 1 TO AREA OF REFUGE NO. 2= 325 PERSONS.

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 3 TO AREA OF REFUGE NO. 2 = 348 PERSONS.

AREA OF REFUGE NO. 3
PLACE OF ASSEMBLY NO. 3 (RESTAURANT)
-ASSEMBLY SPACE OCCUPANT LOAD - 295 PERSONS (PATRONS AND STAFF)
BACK OF HOUSE STAFF - 21 PERSONS
316 PERSONS TOTAL

-DOOR CAPACITY TO SAFE AREA/AREA OF REFUGE/EXIT STAIR=1020 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 27-367).

2/3 OF 316 P. = 211 PEOPLE WHO MUST EXIT TO A.R. 1 AND A.R. 2.

TOTAL DOOR CAPACITY FROM A.R. 3 TO A.R. 1 = 348 PERSONS.
TOTAL DOOR CAPACITY FROM A.R. 2 TO A.R. 1 = 325 PERSONS.
348 P. ≥ 211 P. THEREFORE OK.

AREA OF REFUGE NO. 1
PLACE OF ASSEMBLY NO. 1 (BANQUET)
-ASSEMBLY SPACE OCCUPANT LOAD = 444 PERSONS (PATRONS AND STAFF)
BACK OF HOUSE STAFF - 20 PERSONS
464 PERSONS TOTAL

-PRE-FUNCTION SPACES (NON-SIMULTANEOUS LOAD) - 464 PERSONS (PATRONS AND STAFF)

-DOOR CAPACITY TO SAFE AREA/AREA OF REFUGE/EXIT PASSAGE=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 27-367).

2/3 OF 464 P. = 309 PEOPLE WHO MUST EXIT TO A.R. 2 AND A.R. 3.

TOTAL DOOR CAPACITY FROM A.R. 1 TO A.R. 2 = 200 PERSONS.
TOTAL DOOR CAPACITY FROM A.R. 1 TO A.R. 3 = 325 PERSONS.
525 P. > 309 P. THEREFORE OK.

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 2 TO AREA OF REFUGE NO. 1 = 200 PERSONS.

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 2 TO AREA OF REFUGE NO. 3 = 236 PERSONS.

2 HR. RATED AREA OF REFUGE SEPARATION AT STORAGE SPACE BELOW FLOOR

AREA OF REFUGE NO. 2
PLACE OF ASSEMBLY NO. 2 (BAR)
-ASSEMBLY SPACE-OCCUPANT LOAD = 333 PERSONS (PATRONS AND STAFF)
BACK OF HOUSE STAFF - 17 PERSONS
350 PERSONS TOTAL

-DOOR CAPACITY TO SAFE AREA/AREA OF REFUGE/EXIT STAIR=475 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 27-367).

2/3 OF 350 P. = 234 PEOPLE WHO MUST EXIT TO A.R. 1 AND A.R. 3.

TOTAL DOOR CAPACITY FROM A.R. 2 TO A.R. 1 = 235 PERSONS.
TOTAL DOOR CAPACITY FROM A.R. 2 TO A.R. 3 = 108 PERSONS.
355 P. > 234 P. THEREFORE OK.

TOTAL DOOR CAPACITY FROM AREA OF REFUGE NO. 2 TO AREA OF REFUGE NO. 3 = 120 PERSONS.

1 107TH FLOOR PLAN
SCALE: 1/8"=1'-0"

RECEIVED
OCT 11 1995
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BLDG. A — NORTH — BLDG. B

NO.:	DATE:	REVISIONS:
		CONSTRUCTION DOCUMENTATION SUBMISSION
1	5/22/95	PA QUERIES/REVISIONS
2	10/9/95	ISSUE FOR CONSTRUCTION

TITLE: 107th FLOOR
EGRESS PLAN
ALTERNATE SEATING 'A'

NHPA PROJECT NO. 5466.01
DRAWING NO. A010A
DATE:
SCALE: 1/8"=1'-0"

TAA 951114.07