WALDORF ASTORIA

301 PARK AVENUE NEW YORK, NY 10022 BLOCK 1304, LOT 1

ISSUED TO DEPARTMENT OF BUILDINGS
FEBRUARY 10, 2017

(G) GENERAL
(Z) ZONING
(A) ARCHITECTURE
(S) STRUCTURE
(M) MECHANICAL
(P) PLUMBING

WALDORF
ASTORIA

301 Park Ave.
New York, NY 10022

OWNER

ANBANG GROUP 安邦集团

ARCHITECT

SOM

Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER

Silman

MEPF & SITE CIVIL ENGINEER

Stantec Inc.

VERTICAL TRANSPORTATION

Van Deusen & Associates

CODE CONSULTING

Code Consultants, Inc.

LOGISTICS CONSULTANT

Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING

Philip Habib & Associates

EXTERIOR WALL CONSULTANT

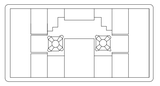
WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
Buildings
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

NO.	DATE	DESCRIPTION
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE

TITLE SHEET

B-SCAN - DRAWING NUMBER

G-001.00

PAGE NUMBER

1 OF 7

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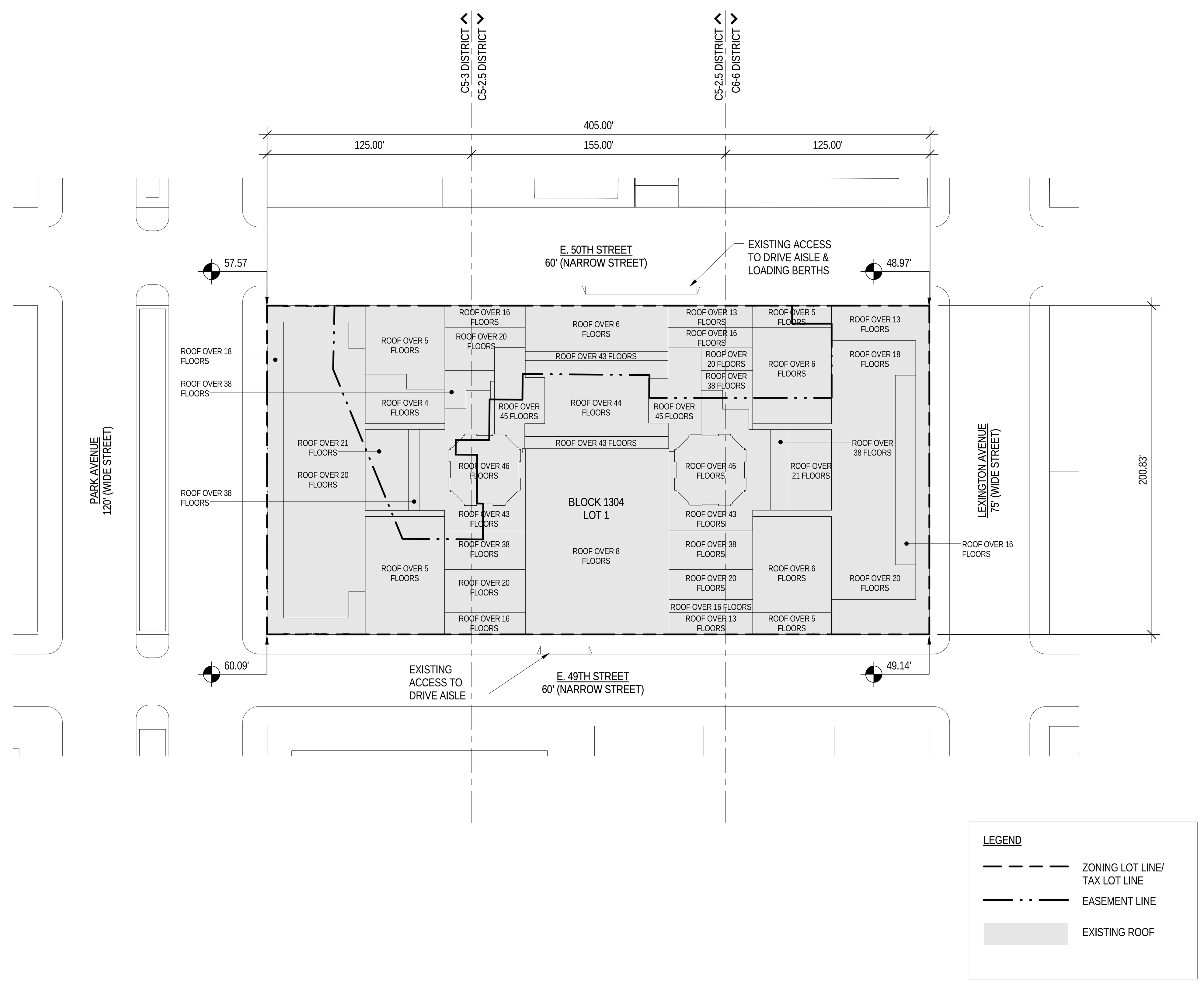

4 LOT MAP

SCALE: 1" = 40'-0"

FINISH SCHEDULE				
FIN. CODE	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH
-	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN
BA	RF01	RB01	PT10	PT10
RA	WDF01	WB01	PT20	PT20
RB	WDF01	WB01	PT20	PT20
RC	WDF01	WB01	PT20	PT20
RD	WDF01	WB01	PT20	PT20
RE	ST12	ST12	ST12	PT20
RF	ST12	ST12	ST12/P20	PT20
RG	ST12	ST12	PT20	PT20
RH	CPT20	WB01	PT20	PT20

1. THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

2. THE CONTRACTOR SHALL PREPARE "COORDINATION DRAWINGS" WHICH REPRESENT THAT ALL TRADES INVOLVED IN THE PROJECT HAVE COORDINATED THE INSTALLATION OF THEIR WORK SO AS TO AVOID CONFLICTS AND/OR MISALIGNMENTS.

3. ALL WORK CONTAINED IN ALL CEILINGS SHALL BE SIMULTANEOUSLY REPRESENTED ON A SINGLE DRAWING TO CONFIRM THAT ALL TRADES "FIT" WITHIN THE ALLOTTED SPACE. ALL CONFLICTS SHALL BE RESOLVED PRIOR TO SUBMITTING SHOP DRAWINGS FOR THE ARCHITECT'S (OR ENGINEER'S) REVIEW AND PRIOR TO EXECUTING ANY OF THE WORK WITHIN THE CEILING CAVITY.

4. EXISTING WORK IS TO BE PROTECTED DURING CONSTRUCTION AND KEPT FREE OF DEBRIS. ANY EXISTING WORK DAMAGED DURING CONSTRUCTION IS TO BE REPLACED WITH WORK OF EQUAL QUALITY.

5. THE ARCHITECT HAS NOT BEEN RETAINED FOR SUPERVISION OF CONSTRUCTION AND ASSUMES NO RESPONSIBILITY FOR MEANS, METHODS AND TECHNIQUES OF CONSTRUCTION.

6. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND JOB CONDITIONS BEFORE COMMENCEMENT OF WORK AND BE RESPONSIBLE FOR THEIR ACCURACY. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE DOCUMENTS OR WITHIN THE DOCUMENTS ARE TO BE REPORTED TO THE ARCHITECT VIA THE CONTRACTOR.

7. DIMENSIONS SHALL BE FIGURED RATHER THAN DETERMINED BY SCALE OR RULE. IN THE EVENT OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS OR WITHIN THEMSELVES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BRING THE CONFLICT TO THE ARCHITECT'S ATTENTION. THE ARCHITECT WILL DECIDE WHICH CONFLICTING REQUIREMENT GOVERNS.

8. ALL REFERENCES TO CODES, SPECIFICATIONS AND STANDARDS REFERRED TO IN THE CONTRACT DOCUMENTS SHALL MEAN, AND ARE INTENDED TO BE THE LATEST EDITION, AMENDMENT, OR REVISION OF SUCH REFERENCE STANDARDS IN EFFECT AS OF THE DATE OF ISSUANCE OF THE CONTRACT DOCUMENTS.

9. EXCEPT WHERE THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS TO THE EXTENT REFERENCED. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE.

10. WHERE COMPLIANCE WITH TWO OR MORE STANDARDS IS SPECIFIED, AND THE STANDARDS MAY ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUANTITY LEVELS, REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, AND UNCERTAINTIES ARE TO BE DEFERRED TO THE DESIGN TEAM FOR A DECISION BEFORE PROCEEDING.

11. EACH ENTITY ENGAGED IN CONSTRUCTION ON THE PROJECT IS REQUIRED TO BE FAMILIAR WITH INDUSTRY STANDARDS APPLICABLE TO THAT ENTITY'S CONSTRUCTION ACTIVITY. COPIES OF APPLICABLE STANDARDS ARE NOT BOUND WITH THE CONTRACT DOCUMENTS. WHERE COPIES OF STANDARDS ARE NEEDED FOR PERFORMANCE OF A REQUIRED CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL OBTAIN COPIES DIRECTLY FROM THE PUBLICATION SOURCE.

12. WHERE "AS SHOWN", "AS INDICATED", "AS DETAILED" OR WORDS OF SIMILAR IMPORT ARE USED, IT SHALL BE UNDERSTOOD THAT REFERENCE TO THE DRAWINGS ACCOMPANYING THE SPECIFICATIONS IS MADE UNLESS OTHERWISE STATED. WHERE "AS DIRECTED", "AS REQUIRED", "AS AUTHORIZED", "AS ACCEPTED", OR WORDS OF SIMILAR IMPORT ARE USED, IT SHALL BE UNDERSTOOD THAT THE DIRECTION, REQUIREMENT, REVIEW OR ACCEPTANCE OF THE DESIGN TEAM IS INTENDED, UNLESS OTHERWISE STATED.

13. AS USED IN THE CONTRACT DOCUMENTS, "PROVIDE" SHALL BE UNDERSTOOD TO MEAN "PROVIDE COMPLETE IN PLACE", THAT IS, "FURNISH AND INSTALL".

14. THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.

15. THE TERM "INSTALL" IS TO BE USED TO DESCRIBE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

16. THE TERM "REGULATIONS" INCLUDES LAWS, ORDINANCES, STATUTES, AND LAWFUL ORDERS ISSUED BY AUTHORITIES HAVING JURISDICTION, AS WELL AS RULES, CONVENTIONS, AND AGREEMENTS WITHIN THE CONSTRUCTION INDUSTRY THAT CONTROL PERFORMANCE OF THE WORK.

17. ON SHEETS FOR MULTIPLE FLOORS, FINISH CODES, KEYNOTES, GENERAL NOTES AND SHEET NOTES ARE FOR FLOOR LISTED U.N.O.

3 GENERAL NOTES

A. GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR FILING AND SECURING ALL PERMITS.

2. THE CONTRACTOR IS TO BE PRESENT AT FINAL INSPECTION WITH THE BUILDING DEPARTMENT INSPECTOR.

3. PROPER 24 HOUR WRITTEN NOTICE SHALL BE GIVEN TO THE DEPARTMENT BEFORE COMMENCMENT OF WORK PER SECTION BC 105.5.1. PROPER 72 HOUR WRITTEN NOTICE SHALL BE GIVEN TO SPECIAL INSPECTORS BEFORE COMMENCEMENT OF ANY WORK REQUIRING SPECIAL INSPECTION PER SECTION BC 1704.1.1.1.

4. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NEW YORK CITY CONSTRUCTION CODE.

5. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE REQUIREMENTS OF CHAPTER 33, "SAFEGUARDS DURING CONSTRUCTION OR DEMOLITION" AND SHALL BE HELD RESPONSIBLE FOR SAFE MAINTENANCE UNTIL COMPLETION AND FINAL ACCEPTANCE OF THE WORK.

6. OCCUPANCY CLASSIFICATION PER TABLE 3-1, J-2 FIRE INDEX 1.

7. THE BUILDING IS CLASSIFIED AS CONSTRUCTION CLASS IA, NON-COMBUSTIBLE CONSTRUCTION.

8. CORRIDORS AND PASSAGEWAYS SHALL COMPLY WITH SECTIONS 27-369 AND 27-370.

9. HEADROOM IN CORRIDORS SHALL COMPLY WITH SECTION 27-369. HEADROOM IN EXIT PASSAGEWAYS SHALL COMPLY WITH SECTION 27-370. HEADROOM IN EXIT STAIRS SHALL NOT BE LESS THAN 7 FT.-0 IN. CLEAR PER SECTION 27-375 (C).

10. THE BUILDING TO BE VACANT DURING CONSTRUCTION.

11. TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, ALL WORK UNDER THIS APPLICATION IS EXEMPT FROM THE NYCECC IN ACCORDANCE WITH THE WORK BEING AN ALTERATION OF A STATE OR NATIONAL HISTORIC BUILDING.

12. TEN (10) DAYS PRIOR NOTICE SHALL BE GIVEN TO ADJOINING LOT OWNERS BY THE CONTRACTOR WHEN AFFECTED BY WORK PER SECTIONS BC 3304.3.2 AND BC 3306.3.2.

13. AN ACCURATE AND COMPLETE SURVEY MADE BY A LICENSED SURVEYOR AS PER ARTICLE 118, SECTION 28-118.4 SHALL BE SUBMITTED AFTER COMPLETION OF WORK WITH FIRST FLOOR ELEVATION, EXTERIOR GRADES AND CURB ELEVATIONS.

14. PERMIT FOR WORK BEYOND THE BUILDING LINE SIDEWALK AND VAULTS WILL BE OBTAINED BY THE CONTRACTOR BEFORE CONSTRUCTION IS STARTED, AS PER THE DEPARTMENT OF HIGHWAYS.

15. THE CONTRACTOR IS TO PROVIDE ALL SHORING, BRACING, BARRICADES, TEMPORARY FENCES, PARTITIONS, AND EXCAVATIONS TO ACCOMPLISH ALL OF THE WORK IN AN APPROVED MANNER PER SECTION BC 3304.4.

16. MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION - CODE TEST METHOD: WHENEVER THE BUILDING CODE PRESCRIBES A METHOD OF TESTING, SUCH TEST SHALL BE MADE BY A TESTING SERVICE OR A LABORATORY ACCEPTABLE TO THE COMMISSIONER AS PER C27-131 (A) (1).

17. INSPECTIONS DURING PROGRESS OF WORK SHALL BE IN ACCORDANCE WITH C27-209.

18. MASONRY TO COMPLY WITH SECTIONS 27-600, 27-601 AND 27-602, RS 10-1 AND RS 10-2.

19. CONCRETE BLOCK SHALL BE OF BOARD OF STANDARDS AND APPEAL APPROVED TYPE AND SHALL BE IN ACCORDANCE WITH RS 10-1.

20. LINTELS FOR OPENINGS IN MASONRY WALLS WIDER THAN 4 FT.-0 IN. SHALL BE FIRE PROTECTED AS PER SECTION 27-324 AND 27-326.

21. INTERIOR AND EXTERIOR STEEL COLUMNS, BEAMS, GIRDERS AND FLOOR CONSTRUCTION SHALL BE FIREPROOFED IN ACCORDANCE WITH NEW YORK CITY BUILDING CODE TABLE 3-4, CONSTRUCTION CLASSIFICATIONS SECTION 27-271 AND RS 3-1.

22. HANDRAILS WILL BE PROVIDED ON BOTH SIDES OF REQUIRED STAIRS AND SHALL NOT ENCROACH MORE THAN 3-1/2" PER SECTION 27-375.

23. GUARD AND HANDRAILS SHALL COMPLY WITH SECTION 27-375 (F). DESIGN AND CONSTRUCT TO WITHSTAND A 200 LB. LOAD APPLIED AT ANY POINT, DOWNWARD OR HORIZONTALLY OR THE SIMULTANEOUS APPLICATION OF A LATERAL FORCE OF 40 PLF AND A VERTICAL FORCE OF 50 PLF, BOTH APPLIED AT THE TOP OF THE RAILING; THE MORE STRINGENT REQUIREMENT GOVERNING.

24. ALL WOOD SHALL BE FIRE-RETARDANT-TREATED PER SECTION 27-328, RS 5-3 AND RS 5-4, AND BE TESTED AS PER SECTION 27-322.

25. WHERE FIRE RESISTANCE-RATED FLOOR OR FLOOR/CEILING ASSEMBLIES ARE REQUIRED, VOIDS CREATED AT THE INTERSECTION OF THE EXTERIOR CURTAIN WALL ASSEMBLIES AND SUCH FLOOR ASSEMBLIES SHALL BE SEALED WITH AN APPROVED SYSTEM TO PREVENT THE INTERIOR SPREAD OF FIRE.

28. FIRESTOPPING OF OPENINGS THROUGH FLOORS OR PARTITIONS SHALL PROVIDE A FIRE RESISTANCE RATING EQUIVALENT TO THAT OF THE FLOOR OR PARTITION ASSEMBLY.

29. ROOFING FIRE CLASSIFICATION TO BE AS PER SECTION 27-337.

30. PARAPETS SHALL COMPLY WITH SECTIONS 27-333 AND 27-334, AND RS 10-10.4

31. DOORS AND ASSEMBLIES SHALL HAVE FIRE-RESISTIVE RATINGS PER SECTION 27-371.

32. ALL FIRE RATED DOORS SHALL BEAR A LABEL INDICATING SAME TYPE AS APPROVED BY BOARD OF STANDARDS AND APPEALS OF M.E.A. ALL OTHER DOORS SHALL BE OF NONCOMBUSTIBLE MATERIALS.

33. MINIMUM PASS THROUGH DOOR WIDTH SHALL BE 2'-10"

34. WHERE GLASS IS USED, GLASS SHALL COMPLY WITH SECTIONS 27-643 TO 27-651 AND RS 10-68.

35. ALL EXTERIOR WINDOW FRAMES SHALL BE METAL.

36. ALL FINISHES SHALL COMPLY WITH SECTION 27-348 AND TABLE 5-4.

37. SUSPENDED CEILING SYSTEM SHALL CONSIST OF SUPPORTING RUNNERS, CARRYING CHANNELS AND A SUPPORTING GRID AND SHALL COMPLY WITH SECTION 27-350 AND RS 5-16 FOR CLASS I-A NON-COMBUSTIBLE CONSTRUCTION.

38. ALL ELEVATOR DOORS SHALL HAVE ELECTRIC INTERLOCKS IN ACCORDANCE WITH REFERENCE STANDARD RS 18-1.

39. ALL MECHANICAL EQUIPMENT TO BE M.E.A. APPROVED.

40. FIRE STANDPIPES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 27-932.

41. ALL MATERIALS AND SERVICE EQUIPMENT WILL COMPLY WITH SECTIONS 27-130 TO 27-137.

42. THE ENTIRE BUILDING SHALL BE PROVIDED WITH AN APPROVED SPRINKLER SYSTEM

43. ALL TOILETS SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH SECTION BC 27-759.

44. EXIT LIGHTS AND SIGNS SHALL BE PROVIDED AT ALL REQUIRED EXITS, STAIRS AND EXIT PASSAGEWAYS WITH SEPARATE ELECTRIC CIRCUIT TAKEN OFF AHEAD OF MAIN SWITCHBOARD AS PER SECTIONS 27-382 AND 27-384 OF THE NEW YORK CITY ADMINISTRATIVE CODE.

45. FIRE ALARM AND COMMUNICATION SYSTEM TO BE PROVIDED THROUGHOUT THE BUILDING AS PER SECTIONS 27-968 AND 27-971, RS 17-3. SYSTEM IS TO COMPLY WITH REQUIREMENTS OF THE FIRE COMMISSIONER.

46. ALL STAIR AND ELEVATOR SIGNAGE SHALL COMPLY WITH SECTIONS 27-390 TO 27-395.

47. ALL SHAFTS SHALL BE VENTED PER SECTION 27-344. ALL OPENINGS WITHIN SHAFTS SHALL COMPLY WITH SECTION 27-344(C).

48. THE BUILIDNG LOCATED AT 109 E. 50TH STREET IS A LANDMARKED BUILDING AND LOCATED WITHIN A 90'-0" RADIUS OF THE 301 PARK AVENUE SITE. ALL CONSTRUCTION TO COMPLY WITH TPPN 10/88.

49. THIS PROJECT DOES NOT INCLUDE MODULAR CONSTRUCTION.

50. APPLICANT WILL PROVIDE A POST FIRE SMOKE PURGE SYSTEM.

51. THE OWNER SHALL NOTIFY ALL PROSPECTIVE RESIDENTIAL OCCUPANTS THAT DWELLING UNITS ARE LOCATED IN A BUILDING WITH COMMERCIAL USES WHICH THE CITY IS COMMITTED TO MAINTAIN AND SUCH PROSPECTIVE OCCUPANTS SHOULD MAKE ANY INVESTIGATION THEY DEEM NECESSARY TO DETERMINE THAT THE CONDITIONS EXISTING OR PERMITTED TO EXIST ARE NOT OFFENSIVE TO SUCH PROSPECTIVE OCCUPANT. THE OWNER SHALL FILE AN AFFIDAVIT WITH THE DEPARTMENT OF BUILDINGS THAT SUCH NOTICE WILL BE PROVIDED IN ALL RESIDENTIAL OFFERING PLANS.

52. PER BC 708.14.1 EXCEPTION 6, ENCLOSED ELEVATOR LOBBIES ARE NOT REQUIRED WHERE THE ELEVATOR HOISTWAY IS PRESSURIZED IN ACCORDANCE WITH SECTION 708.14.2. ALL ELEVATOR HOISTWAYS WILL BE PRESSURIZED IN ACCORDANCE WITH BC 708.14.2.

53. THE ENTIRE BUILDING SHALL COMPLY FULLY WITH LOCAL LAW 16/84. THE FOLLOWING SEPARATE APPLICATIONS WILL BE FILED:

- * SPRINKLERS
- * STANDPIPE
- * ELEVATORS
- * FIRE ALARM SYSTEM
- * EMERGENCY GENERATORS
- * BUILDERS PAVING PLAN
- * CURB CUT
- * FIRE PROTECTION PLAN
- * SITE SAFETY PLAN
- * BOILER

B. SPECIAL INSPECTIONS

THE FOLLOWING MATERIALS, OPERATIONS AND EQUIPMENT RELATED TO THE WORK DESCRIBED IN THESE DOCUMENTS ARE SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED BY THE NEW YORK CITY BUILDING CODE REFERENCE SECTION BC-1704:

1. SPRAYED FIRE-RESISTANT MATERIALS (BC 1704.11)
2. FIRE-RESISTANT PENETRATIONS AND JOINTS (BC 1704.27)

PROGRESS INSPECTIONS ARE REQUIRED IN ACCORDANCE WITH CHAPTER 1 OF THE 2014 NYC BUILDING CODE AND THE APPLICABLE SECTIONS OF THE NYC CONSTRUCTION CODE SHALL BE THE RESPONSIBILITYOF THE CONTRACTOR AND ARE LISTED AS FOLLOWS.

1. PRELIMINARY (28-116.2.1, BC 110.2)
2. FIRE-RESISTANCE RATED CONSTRUCTION (BC 110.3.4)
3. FINAL (28-116.2.4.2, BC 110.5, DIRECTIVE 14 OF 1975, 1 RCNY 101-10)

REFER TO STRUCTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INSPECTIONS.

C. RESPONSIBILITY OF THE OWNER'S AGENT PERFORMING CONTROLLED INSPECTION OF THE STABILITY AND INTEGRITY OF THE EXISTING STRUCTURE DURING CONSTRUCTION OPERATIONS.

1. THE NEW YORK STATE REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER RETAINED BY THE OWNER TO PERFORM THE CONTROLLED INSPECTION OF THE STABILITY AND INTEGRITY OF THE EXISTING STRUCTURE SHALL PERFORM THIS INSPECTION SERVICE IN STRICT COMPLIANCE WITH THE PROCEDURES AND REQUIREMENTS DEFINED BY THE NEW YORK CITY DEPARTMENT OF BUILDINGS IN THE DOCUMENT "PROMULGATION OF THE RULES RELATING TO THE CONTROLLED INSPECTION OF THE STABILITY AND INTEGRITY OF EXISTING STRUCTURES DURING CONSTRUCTION OPERATIONS," DATED AUGUST 26, 1992.
2. IT SHALL BE THE RESPONSIBILITY OF THE OWNER'S CONTROLLED INSPECTING AGENT TO PREPARE DETAIL DRAWINGS AND ASSOCIATED CALCULATIONS REPRESENTING ALL SHORING, BRACING OR OTHER TEMPORARY CONSTRUCTION WHICH MAY BE REQUIRED TO MAINTAIN THE STRUCTURAL STABILITY AND INTEGRITY OF THE EXISTING CONSTRUCTION DURING THE COURSE OF THE WORK REPRESENTED IN THESE DOCUMENTS.
3. ALL DRAWINGS AND CALCULATIONS PREPARED BY THE OWNER'S CONTROLLED INSPECTING AGENT SHALL BEAR AN ORIGINAL SIGNATURE AND SEAL INDICATING THE INSPECTOR'S NEW YORK STATE REGISTRATION. DUPLICATE COPIES OF ALL DRAWINGS AND CALCULATIONS SHALL BE FORWARDED TO THE OWNER PRIOR TO COMMENCING ANY OF THE TEMPORARY WORK REPRESENTED IN THOSE DOCUMENTS. THE OWNER WILL, IN TURN, TRANSMIT THOSE DOCUMENTS TO THE STRUCTURAL ENGINEER OF RECORD FOR HIS REVIEW.
4. THE STRUCTURAL ENGINEER OF RECORD WILL REVIEW THE DOCUMENTS ONLY FOR HOW THE SHORING, BRACING AND OTHER TEMPORARY CONSTRUCTION INTERACTS AND AFFECTS THE EXISTING STRUCTURE. THE STRUCTURAL ENGINEER AT RECORD REVIEW SHALL NOT BE CONSTRUED AS COMPLETE CHECK, NOR RELIEVE THE OWNER'S CONTROLLED INSPECTING AGENT FROM RESPONSIBILITY FOR ERRORS OF ANY SORT NOR FROM THE NECESSITY OF FURNISHING ANY ADDITIONAL DETAILS OR CALCULATIONS WHICH MAY HAVE BEEN OMITTED OR REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.

D. BUILDING DEPARTMENT AND ZONING DATA

• ZONING DISTRICT:	C5-2.5, C5-3. C6-6 (SPECIAL MIDTOWN DISTRICT)
• ZONING MAP:	MANHATTAN BOROUGH - 8D
• BUILDING ADDRESS:	301 PARK AVE, NEW YORK, NY 10022
• CONSTRUCTION TYPE:	CLASS 1A
• PRIMARY OCCUPANCY TYPE:	J-2 OCCUPANCY
• OCCUPANCY GROUPS IN BUILDING:	B-1, B-2, D-2, F-4, J-1, J-2
• ADDRESS:	301 PARK AVE, NEW YORK, NY 10022
• FIRE RESISTIVE REQUIREMENTS:	CLASS 1A
• COLUMNS, GIRDERS, TRUSSES:	4 HRS.
• FLOOR CONSTRUCTION:	3 HRS.
• STAIRS, ELEVATORS, SHAFTS:	2 HRS.
• HORIZONTAL EXITS:	2 HRS.
• BEARING WALLS (EXTERIOR):	4 HRS.
• BEARING WALLS (INTERIOR):	4 HRS.
• ROOF CONSTRUCTION:	2 HRS.

E. APPLICABLE CODES

- 1968 NYC BUILDING CODE
- 2014 NYC BUILDING CODE GENERAL ADMINISTRATIVE PROVISIONS, INCLUDING CHAPTER 9 AND CHAPTER 11
- 2014 NYC MECHANICAL CODE
- 2014 NYC PLUMBING CODE
- 2014 NYC ELECTRICAL CODE
- FAIR HOUSING ACT DESIGN GUIDELINES
- ANSI 117.1 2009

F. RELATED APPLICATIONS

• DOB NO. 122978625	INTERIOR DEMOLITION
• DOB NO. 123021238	SALES OFFICE
• DOB NO. 122985760	SALES OFFICE FP
• DOB NO. 122815926	SALES OFFICE FA

G. CON EDISON VAULT NOTES:

- THE CONTRACTOR SHALL NOTIFY CON EDISON OF ALL PLANNED CONSTRUCTION ACTIVITIES & MILESTONES, AND SHALL PROVIDE CON EDISON REPRESENTATIVES AND INSPECTORS WITH TIMELY, SUITABLE, AND ACCEPTABLE ACCESS TO ALL WORK REQUIRING CON EDISON INSPECTION AND APPROVAL.
- ALL SUBMITTALS RELATIVE TO CON EDISON WORK SHALL BE SUBJECT TO REVIEW AND APPROVAL BY CON EDISON.

2 BUILDING DEPARTMENT NOTES (NYC)

A. GENERAL

1. THE LOCATION OF ALL ELECTRICAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND VERTICAL TRANSPORTATION WALL MOUNTED DEVICES INCLUDING ACCESS DOORS AND PANELS ARE TO BE COORDINATED WITH THE ARCHITECT. COORDINATED ELEVATIONS, SIGNED OFF BY ALL TRADES, SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEERS FOR REVIEW AS A STANDARD SHOP DRAWING SUBMITTAL FOR ANY SPACE WHERE PANELING OR INTERIOR STONEWORK IS REQUIRED.

2. ALL CEILING DEVICES INCLUDING LIGHT FIXTURES, SPEAKERS, EXIT SIGNS, DIFFUSERS, GRILLES, SPRINKLERS, AND SMOKE DETECTORS ARE TO BE CENTERED IN TILE, U.N.O.. ALL DEVICES SHOWN ARE FOR LOCATION INFORMATION ONLY. REFER TO M.E.P.F. DRAWINGS FOR QUANTITIES AND INSTALLATION.

3. NOT ALL REQUIRED CONCRETE CURBS ARE INDICATED ON THE STRUCTURAL DRAWINGS. DRAWINGS OF ALL TRADES (ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL) MUST BE EXAMINED FOR THE SIZE AND LOCATION OF CONCRETE CURBS. PROVIDE ALL CONCRETE PADS AND CURBS AS REQUIRED BY FINAL COORDINATION WITHIN THE SCOPE OF THE BID. PADS AND CURBS INDICATED ON ARCHITECTURAL DRAWINGS ARE FOR GENERAL REFERENCE ONLY.

4. THE PRECISE NUMBER, SIZE, SHAPE & LOCATION OF ALL HOUSEKEEPING PADS REQUIRED TO SUPPORT AND/OR MAINTAIN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT SHALL BE CONFIRMED/COORDINATED WITH THE EQUIPMENT SUPPLIER. WHERE THE FLOORS OF ROOMS OR SPACES CONTAINING HOUSEKEEPING PADS ARE WATERPROOFED, APPLY RESIN MATRIX TYPE WATERPROOFING TO THE TOP AND SIDE SURFACES OF ALL PADS PRIOR TO INSTALLATION OF EQUIPMENT.

5. PROVIDE CATWALKS, GRATINGS AND LADDERS, AS REQUIRED BY FINAL COORDINATION IN COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

6. PROVIDE HOIST BEAMS IN MACHINE AND MECHANICAL ROOMS AS REQUIRED FOR EQUIPMENT REMOVAL/INSTALLATION.

7. ALL EXPOSED CONCRETE SLAB SURFACES TO HAVE DUSTPROOF SEALER, EXCEPT AREAS WITH STONE FINISH, RESIN MATRIX FINISH, TERRAZZO FINISH, WATERPROOFING, TILE FINISH AND PAINTED FLOOR FINISHES.

8. ALL SLAB PENETRATIONS THROUGH FLOOR ASSEMBLIES (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A SYSTEM PROVIDING A RATING EQUAL TO THAT OF THE FLOOR PENETRATED. PENETRATIONS SHALL EXTEND 2" ABOVE TOP OF FINISHED FLOOR ELEVATION. FIRESAFING AT PENETRATIONS THROUGH PARTITION ASSEMBLIES SHALL PROVIDE A FIRE RESISTANCE RATING EQUAL TO THAT OF THE PARTITION.

9. ALL PIECES OF ARCHITECTURAL WOODWORK THAT HAVE INTEGRATED ELECTRICAL SUPPLY SHALL BE SECURED TO STRUCTURE.

10. NOT USED.

11. PROVIDE 16 GAUGE (6" HIGH) WALL REINFORCEMENT BACKER PLATES (FASTENED TO STUDS) AT WALL MOUNTED HANDRAILS, AND DOOR STOPS ON GYPSUM WALLBOARD PARTITIONS.

12. INSTALL ADEQUATE SOLID BLOCKING AND PARTITION REINFORCING FOR ALL WALL MOUNTED CABINETRY, ACCESSORIES AND EQUIPMENT. ALL BLOCKING AND WOOD SHALL BE FIRE RETARDANT TREATED.

13. USE DIELECTRIC SEPARATOR ON ALL DISSIMILAR METALS.

14. COORDINATE LOCATION OF OUTLET BOX FACES WITH SCHEDULED APPLIED FINISH THICKNESS.

15. ALL PARTITIONS ARE DIMENSIONED FROM FACE OF PARTITION U.N.O.

16. STARTING POINT FOR CEILINGS TO BE CENTER OF ROOM U.N.O.

18. PARTITION TARGETS DENOTE THE GENERAL WALL CONSTRUCTION OF A PARTITION FOR ITS ENTIRE LENGTH. IF MORE THAN ONE TARGET IS SHOWN, THE POINT OF TRANSITION GENERALLY OCCURS WHERE THE WALL CHANGES DIRECTION, OR IS INTERSECTED BY ANOTHER PARTITION. MAINTAIN CONTINUITY OF FIRE RATINGS AROUND SHAFTS, AND INDICATED ON PLANS.

19. GWB STAIR SOFFITS SHALL BE SUSPENDED FROM STRUCTURE ABOVE, AND SHALL BE A MINIMUM OF 7'-0" ABOVE FINISHED FLOOR OR STAIR NOSING (WHERE OCCURS), U.N.O.

20. ALL EXPOSED EXTERIOR STEEL SHALL BE HOT DIP GALVANIZED, TO INCLUDE STEEL LINTEL IN EXTERIOR OPENING, U.N.O.

21. ALL SURFACES VISIBLE THROUGH MECHANICAL OR ARCHITECTURAL SLOTS, LOUVERS, GRILLES, DIFFUSERS, ETC. SHALL BE PAINTED MATTE BLACK, U.N.O.

22. WHERE SLAB DEPRESSION PLAN DIMENSIONS ARE EXTENDED OR OVERSIZED TO SUIT STRUCTURAL DECK CONFIGURATIONS, PROVIDE LIGHTWEIGHT CONCRETE FILL ALONG PERIMETER OF SLAB DEPRESSION TO SUIT ARCHITECTURAL CONFIGURATION OF WALLS, TILE SETTING BEDS, ETC.

23. ALL CERAMIC TILE FLOOR INSTALLATIONS SHALL BE FULL BED "MORTAR SET". AREAS WITHOUT SLAB DEPRESSIONS SHALL BE "THIN SET".

24. PROVIDE CONTINUOUS 70 DEGREE DRYWALL CANTS AT ALL PROJECTIONS GREATER THAN 2" IN ALL ELEVATOR SHAFTS, INCLUDING STRUCTURAL BRACING LOCATIONS.

25. MECHANICAL EQUIPMENT ROOM FLOORING SHALL EXTEND 6" UP CURBS OR WALLS. SEE FINISH CODE FOR TYPE.

26. PROVIDE 4' HIGH STEEL CORNER GUARDS ON ALL OUTSIDE CORNERS OF CMU AND GWB WALL ALONG CORRIDORS WITHIN SERVICE AREAS, MECHANICAL ROOMS, SERVICE ELEVATOR LOBBIES AND LOADING DOCK.

27. PROVIDE STEEL LINTELS FOR ALL OPENINGS UP TO 4'-0" WIDE IN MASONRY WALLS, UNLESS REINFORCED MASONRY LINTELS ARE SHOWN.

28. PROVIDE REINFORCED CMU LINTELS FOR ALL OPENINGS 4'-0" OR GREATER IN MASONRY WALLS.

29. ALL ELEMENTS OF THE BUILDING MUST REMAIN INSIDE THE PROPERTY LINE & ZONING SETBACKS.

30. COORDINATE AND PROVIDE ALL REQUIRED UNDERSLAB DRAINAGE PIPE LENGTHS, FITTINGS, INVERTS AND CLEANOUTS TO TERMINATION AT EJECTOR PIT.

31. CURTAIN/BLIND POCKETS TO BE COORDINATED WITH WINDOW TREATMENT FOR DETAIL AND HANGING LOADS.

32. FINISH SCHEDULE INDICATES GENERAL TYPES OF FINISHES ONLY. FINAL SELECTION OF COLORS/FINISHES TO BE MADE BY ARCHITECT.

33. FREE-STANDING COLUMNS WITHIN SPACES TO RECIEVE SAME CLADDING AND FINISHES AS OTHER SURFACES IN THE SPACE UNLESS OTHERWISE SHOWN OR NOTED.

C. DOOR AND FINISH HARDWARE - GENERAL NOTES

1. ALL DOORS AND FRAMES TO BE WELDED HOLLOW METAL, U.N.O.

2. ALL FIRE-RATED DOORS AND ASSEMBLIES SHALL BE 90 MINUTE FIRE RESISTANCE RATED, SELF-CLOSING, U.N.O.

3. PROVIDE INTEGRATED ASTRAGALS & COORDINATOR AT ALL FIRE RATED DOUBLE DOORS.

4. PROVIDE "B-LABEL" (1 1/2 HR) AND "C-LABEL" (3/4 HR) RATED DOORS AND FRAMES WHERE SUCH DOORS OCCUR IN 2 HOUR AND 1 HOUR FIRE RATED CONSTRUCTION RESPECTIVELY.

5. PROVIDE BUMPER STOPS AT ALL DOORS WHICH BACK AGAINST PARTITIONS WHEN OPENED. PROVIDE OVERHEAD STOPS IN LOCATIONS WHERE WALL STOPS CANNOT BE USED AND WHERE INDICATED IN THE HARDWARE SETS.

6. PROVIDE JAMB HUNG CENTER PIVOT SETS, WALL STOPS AND EMERGENCY RELEASE DOOR STOPS WITH STRIKES AT ALL TOILETS.

7. IN ADDITION TO THE CRITERIA AND ITEMS NOTED ABOVE, PROVIDE ITEMS OF FINISH HARDWARE NOTED IN THE HARDWARE SET SCHEDULED FOR EACH DOOR. WHERE SPECIFIC HINGES, CLOSERS, ETC. ARE INDICATED IN THE HARDWARE SET, SUCH ITEMS SHALL SUPERSEDE THE REQUIREMENTS ESTABLISHED BY THE GENERAL CRITERIA NOTED ABOVE.

D. SMOKE DETECTING DEVICES:

1. SMOKE DETECTING DEVICES SHALL CONFORM TO 28.2-907.1

2. SMOKE DETECTING DEVICES SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING. THERE SHALL BE NO SWITCHES IN THE CIRCUIT OTHER THAN THE OVERCURRENT DEVICE PROTECTING THE BRANCH CIRCUIT.

3. ALL SMOKE DETECTING DEVICES SHALL BE ACCEPTED PURSUANT TO RULES AND REGULATIONS PROMULGATED BY THE COMMISSIONER, APPROVED BY THE BOARD OF STANDARDS AND APPEALS OR LISTED BY A NATIONALLY RECOGNIZED INDEPENDENT LABORATORY. NO DEVICE SHALL BE DEEMED TO BE IN COMPLIANCE WITH THIS PROVISION UNLESS IT IS OF EITHER THE IONIZATION OF PHOTO-ELECTRIC TYPE.

E. SPRAY-ON FIREPROOFING NOTES

1. CONSTRUCTION TYPE IA FIRE RESISTIVE CONSTRUCTION THROUGHOUT THE ENTIRE PROJECT. SPACES ARE FULLY SPRINKLERED WITH APPROVED TWO SOURCE WATER SUPPLY.

2. ELEVATOR DIVIDER BEAMS WITHIN ELEVATOR SHAFTS THAT ONLY SUPPORT ELEVATOR RAILS ARE NOT TO RECEIVE SPRAY-ON FIREPROOFING. BEAMS THAT SUPPORT ELEVATOR RAILS, SLABS OR WALLS ARE TO HAVE 2 HR SPRAY-ON FIREPROOFING.

3. UNLESS NOTED OTHERWISE ALL STRUCTURAL STEEL BEAMS, METAL DECK, ETC., NOT ENCASED IN CONCRETE, SHALL BE PROTECTED WITH 3HR SPRAY-ON FIREPROOFING, TYPE FP-02. ALL COLUMNS, GIRDERS, TRUSSES, AND PRIMARY BEAMS CONNECTED TO COLUMNS SHALL BE PROTECTED WITH SPRAY-ON FIREPROOFING, TYPE FP-02. COMPONENTS SHALL BE FIREPROOFED IN ACCORDANCE WITH NEW YORK CITY BUILDING CODE TABLE 3-4, CONSTRUCTION CLASSIFICATIONS SECTION 27-371, AND RS 3-1.

4. ALL STRUCTURAL STEEL WITHIN LOADING DOCK AREA SHALL HAVE 3HR SPRAY-ON FIREPROOFING, TYPE FP-02.

5. ALL SPRAY-ON FIREPROOFING WITHIN M,E,P,FP ROOMS, INCLUDING BUT NOT LIMITED TO ELECTRICAL CLOSETS, MECHANICAL ROOMS, ELEVATOR SHAFTS, AND STAIR AREAS TO HAVE SPRAY-ON FIREPROOFING TYPE FP-02.

6. ALL STRUCTURAL STEEL IN THE FUEL OIL ROOM SHALL HAVE 4HR SPRAY ON FIREPROOFING, TYPE FP-02.

7. PROVIDE SPRAY-ON FIREPROOFING TYPE FP-02 IN ALL AIR PLENUMS AND ELEVATOR MACHINE ROOMS.

8. UNLESS NOTED OTHERWISE ALL COLUMNS, BEAMS AND OTHER STRUCTURAL MEMBERS SHALL HAVE SPRAY-ON FIREPROOFING INSTALLED AT THE REQUIRED THICKNESS AND DENSITY TO ACHIEVE THE HOURLY RATINGS AS SET FORTH HEREAFTER. ALL FIREPROOFING SHALL COMPLY WITH UNDERWRITER'S LABORATORIES DESIGN TEST FOR THE REQUIRED HOURLY RATINGS.

* COLUMNS AND GIRDERS	
1. SUPPORTING ONE FLOOR OR ROOF	3 HRS
2. SUPPORTING TWO OR MORE FLOORS	4 HRS
* FLOOR CONSTRUCTION INCLUDING BEAMS	3 HRS
* ROOF CONSTRUCTION	
1. IF 15 FT.- 0 IN. OR LESS ABOVE FLOOR	2 HRS
2. IF 15 FT.- 0 IN. TO 20 FT.- 0 IN. ABOVE FLOOR	1 HR

F. CARBON MONOXIDE DETECTING DEVICES:

1. CARBON MONOXIDE DETECTORS ARE IN CONFORMANCE WITH LL7/04

2. CARBON MONOXIDE DETECTING DEVICES SHALL CONFORM TO 28.2-908.7.1.1 AND 28.2-908.1.7.1.1.1 OF THE ADMINISTRATIVE CODE OF THE CITY OF NEW YORK.

3. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS PER 28.2-908.7.I.I.2 AND COMPLY WITH THE POWER SOURCE, INTERCONNECTION, AND ACCEPTANCE TESTING REQUIREMENTS REQUIRED FOR SMOKED ALARMS IN SECTIONS 28.2-907.10.2 THROUGH 28.2-907.10.4

4. CARBON MONOXIDE ALARMS OR DETECTORS SHALL BE LOCATED OUTSIDE OF ANY ROOM USED FOR SLEEPING PURPOSES, WITHIN 15 FEET OF THE ENTRANCE TO THE ROOM, IN ANY ROOM USED FOR SLEEPING PURPOSES, AND ON ANY STORY WITHIN A DWELLING UNIT, INCLUDING BELOW GRADE STORIES AND PENTHOUSES OF ANY AREA BUT NOT INCLUDING CRAWL SPACES OR UNINHABITABLE ATTICS AS PER 28.2-908.7.1.1.1

5. CARBON MONOXIDE DETECTORS SHALL BE PROVIDED AT AFFECTED DWELLING UNITS AS PER 28.2-908.7.1.1. AFFECTED UNITS ARE UNITS ON SAME STORY WHERE CARBON MONOXIDE PRODUCING EQUIPMENT OR ENCLOSED PARKING IS LOCATED, UNITS ON THE STORIES ABOVE OR BELOW THE FLOOR WHERE CARBON MONOXIDE PRODUCING EQUIPMENT OR ENCLOSED PARKING IS LOCATED, UNITS IN A BUILDING CONTAINING CARBON MONOXIDE PRODUCING FURNACE, BOILER, OR WATER HEATER AS PART OF A CENTRAL SYSTEM, AND UNITS IN A BUILDING SERVED BY A CARBON MONOXIDE PRODUCING FURNACE THAT IS LOCATED IN AN ADJOINING OR ATTACHED BUILDING

6. EACH SMOKE/CARBON MONOXIDE DETECTOR SHALL BE OF A TYPE THAT ALLOWS FOR READILY TESTING OF SUCH DEVICE.

7. DUPLEX UNITS SHALL HAVE A DEVICE LOCATED ON EACH LEVEL IF ONLY ONE MEANS OF EGRESS IS PROVIDED FROM EACH LEVEL.

8. CEILING MOUNTED DEVICES SHALL BE A MINIMUM DISTANCE OF 4" FROM ANY WALL.

9. WALL MOUNTED DEVICES SHALL BE A MINIMUM OF 4" TO A MAXIMUM OF 12" FROM THE CEILING.

10. EXISTING BUILDINGS THAT ARE NOT EQUIPPED WITH HARDWIRED CONNECTIONS SHALL BE SUPPLIED WITH BATTERY OPERATED DEVICES.

11. SUCH SMOKE/CARBON MONOXIDE DETECTOR MUST BE EITHER THE IONIZATION CHAMBER TYPE OR THE PHOTOELECTRIC DETECTOR TYPE AS PER NEW YORK CITY BUILDING CODE SEC. 907 AND 908.

12. A "CERTIFICATE OF SATISFACTORY INSTALLATION FOR SMOKE/CARBON MONOXIDE DETECTORS" MUST BE FILED WITH THE DIVISION OF CODE ENFORCEMENT H.P.D., 10 DAYS AFTER INSTALLATION.

13. WRITTEN INFORMATION OF TESTING AND MAINTENANCE OF THE DEVICES SHALL BE PROVIDED TO THE DWELLING UNIT OWNER.

14. IN MULTIPLE DWELLINGS (R-2), SMOKE ALARMS SHALL BE ABLE TO SUPPORT VISIBLE ALARM PER ANSI A117.1.

1 CLARIFICATION OF THE WORK NOTES

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Code Consultants, Inc.

LOGISTICS CONSULTANT

Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING

Philip Habib & Associates

EXTERIOR WALL CONSULTANT

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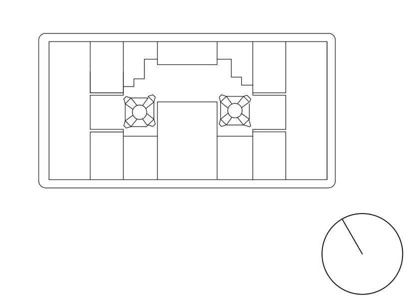
KEYPLAN



SEAL

NO.	DATE	DESCRIPTION
5	20 JUN 2017	ISSUED TO DOB
4	27 MAR 2017	ISSUED TO DOB
3	10 FEB 2017	ISSUED TO DOB
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DRAWING TITLE

GENERAL NOTES

B-SCAN - DRAWING NUMBER

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ANNOTATIONS

&	AND
/	ANGLE
@	AT
#	NUMBER
A/C	AIR CONDITIONING
A/V	AUDIO VISUAL
ACONC	ARCHITECTURAL CONCRETE
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJACENT
ADR	ACCESS DOOR
AF	ACCESS FLOOR
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE(LY)
AP	ACCESS PANEL
APT	APARTMENT
ARC	ARCHITECTURAL CONCRETE
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
B/	BOTTOM OF
BD	BOARD
BEV	BEVELED
BG	BUMPER GUARD
BLDG	BUILDING
BLKG	BLOCK(ING)
BM	BEAM
BMK	BENCHMARK
BOC	BOTTOM OF CURB
BR	BEDROOM
BRK	BRICK
BRZ	BRONZE
BSMT	BASEMENT
BS	BRASS
BTU	BRITISH THERMAL UNIT(S)
BWP	BENTONITE WATERPROOFING
CAP	CAPACITY
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD(S)
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLO	CLOSET
CLR OPNG	CLEAR OPENING
CMU	CONCRETE MASONRY UNIT(S)
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECT(ION)
CONSTR	CONSTRUCTION
CONT	CONTINUOUS / CONTINUE
CONV	CONVECTOR
CORR	CORRIDOR
CPT	CARPET(ED)
CRB	CEMENTITIOUS ROOF BOARD
CSK	COUNTERSINK / COUNTERSUNK
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER(ED)
CU	CUBIC
CW	COLD WATER
DB	DECIBEL
DBL	DOUBLE
DD	DECK DRAIN
DEG	DEGREE(S)
DEPT	DEPARTMENT
DET	DETAIL(S)
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER(S)
DIM	DIMENSION(S)
DISP	DISPENSER
DIV	DIVIDE / DIVISION
DL	DEAD LOAD
DMPF	DAMPPROOFING
DMPR	DAMPER
DN	DOWN
DP	DRAINAGE PANEL
DR	DINING ROOM
DRLV	DOOR LOUVER
DWG	DRAWING(S)
DWTR	DUMBWAITER
EA	EACH
EC	EXPOSED CONSTRUCTION
EFG	STAINLESS STEEL ENTRANCE FLOOR GRATING
EIFS	EXTERIOR INSULATED FINISH SYSTEM
EJ	EXPANSION JOINT
EJC	EXPANSION JOINT COVER
EL	ELEVATION (GRADE)
ELAST	ELASTOMERIC
ELEC	ELECTRIC(AL)
ELEC CL	ELECTRIC CLOSET
ELEV	ELEVATOR
ELEV	ELEVATION (BLDG)
EM	ENTRANCE MAT
EMER	EMERGENCY
ENCL	ENCLOSURE / ENCLOSE(D)
ENTR	ENTRANCE
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXPN	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAB	FABRIC
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FDMPR	FIRE DAMPER
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK (REEL)
FIN	FINISH(ED)
FIN FL	FINISH FLOOR
FIN GR	FINISH GRADE
FLEX	FLEXIBLE
FLH	FLASHING
FLMT	FLUSH MOUNTED
FLR	FLOOR(S)
FLS	FLOOR SEALER
FLUOR	FLUORESCENT
FO	FINISHED OPENING
FP	FIREPROOFING
FPM	FEET PER MINUTE
FR	FIRE RETARDANT / RATING / RESIST.
FRM	FRAME
FRTW	FIRE RETARDANT TREATED WOOD
FS	FULL SIZE
FSS	FIRE STOPPING SYSTEM
FSE	FOOD SERVICE EQUIPMENT
FSP	FIRE STANDPIPE
FT	FEET (FOOT)
FTG	FOOTING
FWP	FABRIC WRAPPED PANEL
G	GAS
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GALV STL	HOT-DIP GALVANIZED STRUCTURAL STUDS
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GG	GLAZING GASKET
GI	GALVANIZED IRON
GL	GLASS
GL BLK	GLASS BLOCK
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRAN	GRANITE
GRD	GRADE
GRL	GRILLE
GS	GLAZING SEALANT
GWB	GYPSUM WALLBOARD
HB	HOSE BIB
HD	HEAD
HDW	HARDWARE
HEX	HEXAGON(AL)
HM	HOLLOW METAL
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR(S) (FIRE RESISTANCE RATING)
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
INCL	INCLUDE(D) / INCLUSIVE / INCLUDING
INFO	INFORMATION
INS	INSULATION / INSULATE(D)
INT	INTERIOR
JC	JANITOR CLOSET
JF	JOINT FILLER
JG	JOINT GASKET
JT	JOINT
KD	KNOCKDOWN
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LBS	POUND(S)
LD	LINEAR DIFFUSER
LDE	LOADING DOCK EQUIPMENT
LH	LEFT HAND
LIN	LINEAR
LKR	LOCKERS
LMST	LIMESTONE
LONG	LONGITUDINAL
LP	LOW POINT
LR	LIVING ROOM
LTG	LIGHTING
LVR	LOUVER(ED)
MACH	MACHINE
MAINT	MAINTAIN / MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MB	METAL BASE
MBL	MARBLE
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	METAL LATH
ML WK	MILLWORK
MLDG	MOLDING
MO	MASONRY OPENING
MP	METAL PANEL
MTD	MOUNTED
MTL	METAL
MUL	MULLION
N	NORTH
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFD	OVERFLOW DRAIN
OFF	OFFICE
OH DR	OVERHEAD COILING DOOR
OP	OFFICE PASSENGER ELEVATOR
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPR	OPERATING / OPERABLE
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
PA	PUBLIC ADDRESS
PAR	PARALLEL
PART	PARTIAL
PAV	PAVERS
PB	PARTICLE BOARD
PCC	PRECAST CONCRETE
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PLASTIC LAMINATE
PLA	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNEU	PNEUMATIC
POL	POLISHED
PPV	PRECAST CONCRETE PAVERS
PR	PAIR
PREFAB	PREFABRICATE(D)
PROJ	PROJECT(S)
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT(ED)
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PWR	POWER
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RC	REINFORCED CONCRETE
RD	ROOF DRAIN
RECPT	RECEPTACLE
RECT	RECTANGLE
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(D, -ING, -MENT)
REQD	REQUIRED
RES	EPOXY-RESIN TERRAZZO
REV	REVISED / REVISION
RF	RESILIENT FLOORING
RFA	ROOFING ACCESSORIES
RH	RIGHT HAND
RM	ROOM
RMX	RESIN MATRIX
RND	ROUND(ED)
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RS	ROOFING SYSTEM
RSF	RESILIENT SHEET FLASHING
SA	SUPPLY AIR
SAN	SANITARY
SB	SPLASH BLOCK
SCHED	SCHEDULE(D)
SE	SEALANT
SECT	SECTION
SHR	SHOWER
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SKC PLAS	BONDED GYPSUM SKIM COAT PLASTER
SLDG	SLIDE / SLIDING
SMR	SHEET METAL ROOFING
SPC	SYNTHETIC POLYMER COUNTERTOP
SPEC	SPECIFICATION(S)
SQ	SQUARE
SQ FT	SQUARE FOOT / FEET
SST	STAINLESS STEEL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SURF MTD	SURFACE MOUNTED
SUSP	SUSPEND(ED) / SUSPENSION
SWBD	SWITCHBOARD
SYMM	SYMMETRICAL
T	TREAD
T&G	TONGUE AND GROOVE
T/	TOP OF
TA	TOILET ACCESSORY(IES)
TC	TRAFFIC COATING
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPERATURE
TER	TERRAZZO
THK	THICK(NESS)
THRES	THRESHOLD
TOC	TOP OF CURB
TOPO	TOPOGRAPHY MAP
TRANS	TRANSOM
TRAV	TRAVERTINE
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
VAC	VACUUM
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VNR PLAS	VENEER PLASTER
VOL	VOLUME
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WBL	WOOD BLOCKING
WCV	WALL COVERING
WD	WOOD
WDF	WOOD DOOR AND FRAME
WH	WALL HYDRANT
WI	WROUGHT IRON
WKP	WALKWAY PADS
WP	WORK POINT
WPMU	WATERPROOF MEMBRANE/UNDERLAYMENT
WPS	WATERPROOFING SYSTEM
WR	WEATHER RESISTANT
WRB	WARDROBE
WS	WEATHERSTRIP(PING)
WT	WEIGHT
WTR	WINDOW TREATMENT
WV	WOOD VENEER
WWF	WELDED WIRE FABRIC

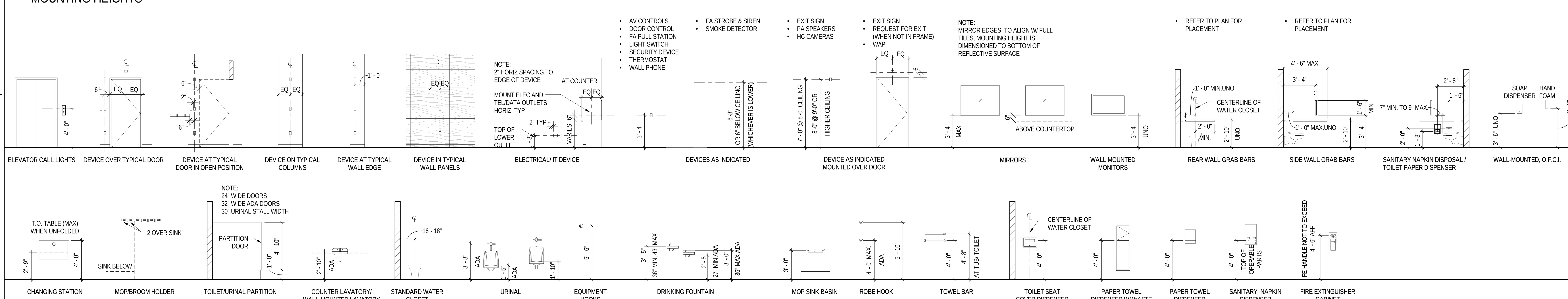
SYMBOLS LEGEND

- XX / A-XXX — BUILDING ELEVATION REFERENCE
- A-XXX — INTERIOR ELEVATION REFERENCE
- XX / A-XXX — SECTION REFERENCE
- XX / A-XXX — DETAIL REFERENCE
- XX / A-XXX — DETAIL CALLOUT REFERENCE
- A — COLUMN CENTERLINE REFERENCE
- 22 — REVISION
- FLOOR LEVEL 234'-0" — FINISH FLOOR LEVEL REFERENCE
- FLOOR LEVEL 234'-0" — FLOOR SLAB LEVEL REFERENCE
- EL. + XX'-XX" — SPOT ELEVATION (TOP OF FINISHED FLOOR)
- EL. + XX'-XX" — SPOT ELEVATION (TOP OF SLAB)
- N XX'-XX" E XX'-XX" — SPOT COORDINATE
- WP — WORK POINT
- ? — KEYNOTE REFERENCE
- NORTH ARROW
- X" — CHANGE IN SLAB
- ALIGN — ALIGN SYMBOL
- MATCHLINE REFERENCE
- PROPERTY LINE
- NOT IN SCOPE / NOT IN CONTRACT
- 00 NAME SCALE 1:100 — DRAWING TITLE
- WALL TYPE (X#, A #, FIRE RATING, ACOUSTIC REQ) — WALL TYPE REFERENCE
- XX-XXX — DOOR REFERENCE
- ROOM NAME X X X (KITCHEN/BATHROOM/CLOSET TYPE, ROOM FINISH CODE, BATHROOM CODE COMPLIANCE) — ROOM TARGET REFERENCE
- XXXX — ELEVATOR REFERENCE
- XX — WINDOW REFEENCE
- XXX / XXX — CURTAIN PANEL REFEENCE
- XXX — MATERIAL REFERENCE
- XX — LIGHT FIXTURE REFERENCE
- XXX — CASEWORK REFERENCE
- XX — PARKING REFERENCE
- 1 HR FIRE RATING
- 2 HR FIRE RATING
- 3 HR FIRE RATING
- 4 HR FIRE RATING
- SMOKE RATING
- LINE ABOVE
- LINE BELOW / HIDDEN
- DIRECTION OF GRAIN — DIRECTION OF GRAIN SYMBOL
- ACCESS PANEL
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- SINGLE POLE ELECTRICAL SWITCH
- 2 — TWO POLE ELECTRICAL SWITCH
- 3 — TWO POLE ELECTRICAL SWITCH
- SINGLE ELECTRICAL RECEPTACLE
- DUPLEX ELECTRICAL RECEPTACLE
- QUAD ELECTRICAL RECEPTACLE
- 220 V ELECTRICAL RECEPTACLE
- GFI — DUPLEX ELECTRICAL RECEPTACLE WITH GFI PROTECTION
- WALL MOUNTED TELEPHONE RECEPTACLE
- WALL MOUNTED DATA RECEPTACLE
- WALL MOUNTED TELEPHONE & DATA RECEPTACLE
- SINGLE FLOOR MOUNTED ELETRICAL RECEPTACLE
- DOUBLE FLOOR MOUNTED ELETRICAL RECEPTACLE
- GFI PROTECTED ELETRICAL RECEPTACLE
- RD — FLOOR DRAIN / ROOF DRAIN
- RD — ROOF DRAIN WITH OVERFLOW
- RD RD — FACE MOUNTED ROOF DRAIN
- CEILING MOUNTED EXIT SIGN
- CEILING MOUNTED DIRECTIONAL EXIT SIGN
- CEILING MOUNTED DIRECTIONAL EXIT SIGN (TWO SIDED)
- WALL MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN (TWO SIDED)
- WALL MOUNTED DIRECTIONAL EXIT SIGN
- WALL MOUNTED DIRECTIONAL EXIT SIGN
- WALL MOUNTED DIRECTIONAL EXIT SIGN
- SPRINKLER HEAD
- SP — SPEAKER
- ST — WALL MOUNTED FIRE ALARM STROBE
- ST — FIRE ALARM STROBE
- SD — SMOKE DETECTOR
- T — THERMOSTAT
- HD — HEAT DETECTOR
- RECESSED DOWNLIGHT
- DIRECTIONAL RECESSED DOWNLIGHT
- G — GRAVITY ANCHOR
- L — LATERAL ANCHOR
- P — PANEL STACK JOINT
- FEC — FIRE EXTINGUISHER CABINET
- FVC — FIRE VALVE CABINET
- FHC\SP — FIRE HOSE CABINET & STAND PIPE

MATERIALS LEGEND

- SOIL
- SAND, MORTAR, GROUT, PLASTER, DRYWALL
- CONCRETE
- TILE
- CONCRETE MASONRY UNIT
- STONE
- STEEL
- ALUMINUM
- PARTICLE BOARD, PLYWOOD, MEDIUM DENSITY FIBERBOARD
- RIGID INSULATION
- ACOUSTIC PANELS
- GRAVEL
- CONTINUOUS WOOD BLOCKING
- DISCONTINUOUS WOOD BLOCKING
- NON RIGID INSULATION
- SOLID WOOD STOCK
- SCREED

MOUNTING HEIGHTS



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ABBREVIATIONS, LEGENDS & SYMBOLS

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ACCESSIBILITY NOTES:

ACCESSIBILITY FOR THE PHYSICALLY HANDICAPPED SHALL BE PROVIDED IN PUBLIC AREAS. THE PROVISIONS SHALL COMPLY WITH THE REQUIREMENTS OF ADA 2010 STANDARDS, ANSI A117.1 2009 . AS REQUIRED BY THE NYC BUILDING CODE 2014, SHOWN GRAPHICALLY ON THIS SHEET AND IN NOTES BELOW.

402 ACCESSIBLE ROUTES: SLOPE AT EXTERIOR ACCESSIBLE ROUTES SHALL NOT EXCEED 5% (1:20) ; CROSS SLOPE SHALL NOT EXCEED 2.083% (1:48)

404-2-6 DOOR HARDWARE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. THEY SHALL BE MOUNTED WITHIN REACH RANGES SPECIFIED IN 4.2. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

405-7 LANDINGS. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RUN. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:

1. THE LANDING SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO IT.

2. THE LANDING LENGTH SHALL BE A MINIMUM OF 60" (1525 MM) CLEAR.

3. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60" BY 60" (1525 MM BY 1525 MM).

4. IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH 404-2-3 & 404-3-2.

405-8 HANDRAILS. IF A RAMP RUN HAS A RISE GREATER THAN 6" (150 MM) OR A HORIZONTAL PROJECTION GREATER THAN 72" (1830 MM), THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. HANDRAILS SHALL HAVE THE FOLLOWING FEATURES:

1. HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.

2. IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" (305 MM) BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.

703-2 CHARACTER PROPORTION. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10, UTILIZING AN UPPER-CASE "X" FOR MEASUREMENT.

703-3 TACTILE CHARACTERS OR SYMBOLS. CHARACTERS, SYMBOLS, OR PICTOGRAPHS ON TACTILE SIGNS SHALL BE RAISED 1/32" (0.8 MM) MINIMUM. RAISED LETTERS AND NUMBERS SHALL BE SANS SERIF UPPERCASE CHARACTERS. RAISED CHARACTERS OR SYMBOLS SHALL BE AT LEAST 5/8" (16 MM) HIGH, BUT NO HIGHER THAN A NOMINAL 2" (51 MM).

407-3-5 DOOR DELAY FOR CAR CALLS. THE MINIMUM TIME FOR ELEVATOR DOORS TO REMAIN FULLY OPEN IN RESPONSE TO A CAR CALL SHALL BE 3 SECONDS.

605 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE 30" BY 48" (760 MM BY 1220 MM) SHALL BE PROVIDED IN FRONT OF URINALS TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL COMPLY WITH 305 PRIVACY SHIELDS ALLOWING LESS THAN 30" (760 MM) CLEAR WIDTH SHALL NOT EXTEND BEYOND THE FRONT EDGE OF THE URINAL RIM.

702 AUDIBLE ALARMS. AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A SOUND THAT EXCEEDS THE PREVAILING EQUIVALENT SOUND LEVEL IN THE ROOM OR SPACE BY AT LEAST 15 DECIBELS OR EXCEEDS ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 30 SECONDS BY 5 DECIBELS, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 120 DECIBELS.

702 VISUAL ALARMS. VISUAL ALARMS SHALL BE FLASHING LIGHTS ARRANGED TO FLASH IN CONJUNCTION WITH THE AUDIBLE EMERGENCY ALARMS. THE FLASHING FREQUENCY OF VISUAL ALARMS SHALL BE APPROXIMATELY 1 HZ. SPECIALIZED SYSTEMS USING ADVANCED TECHNOLOGY MAY BE SUBSTITUTED IF EQUIVALENT PROTECTION IS AFFORDED HANDICAPPED USERS OF THE BUILDING OR FACILITY.

702 AUXILIARY ALARMS. SENSORY ALARMS PROVIDED FOR PERSONS WITH HEARING IMPAIRMENTS SHALL BE CONNECTED TO THE BUILDING EMERGENCY SYSTEM OR THERE SHALL BE A STANDARD 1100-VOLT ELECTRICAL RECEPTACLE INTO WHICH AN ALARM UNIT CAN BE CONNECTED TO BE ACTIVATED BY THE BUILDING ALARM SYSTEM. INSTUCTIONS FOR USE OF THE AUXILIARY ALARM OR CONNECTIONS SHALL BE PROVIDED.

703 SYMBOLS OF ACCESSIBILITY. IF ACCESSIBLE FACILITIES ARE IDENTIFIED, THEN THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE USED. COMPLY WITH 703-6-3-1

407-4-1 & 407-4-4 AUTOMATIC OPERATIONS. ELEVATOR OPERATION SHALL BE AUTOMATIC. EACH CAR SHALL BE EQUIPPED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING THE CAR TO FLOOR LANDINGS WITHIN A TOLERANCE OF 1/3" (13 MM) UNDER RATED LOADING TO ZERO LOADING CONDITIONS. THIS SELF-LEVELING FEATURE SHALL BE AUTOMATIC AND INDEPENDENT OF THE OPERATING DEVICE AND SHALL CORRECT FOR OVERTRAVEL OR UNDERTRAVEL.

SIGNAGE

HANDICAPPED ACCESS NOTES:

1. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGRESS AND SHALL BE SO MOUNTED THAT CLEAR WIDTH OF DOORWAY IS AT LEAST 32 INCHES.

2. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE.

3. MAXIMUM EFFORT TO OPERATE FIRE DOORS SHALL BE 15 LBS. AT OTHER INTERIOR DOORS MAXIMUM EFFORT TO OPERATE SHALL BE 5 LBS.

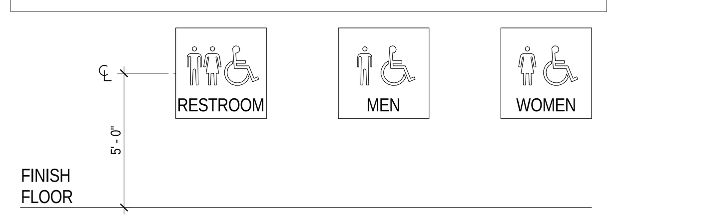
4. FLOOR, RAMP, AND TREAD SURFACES SHALL BE SLIP RESISTANT.

5. EMERGENCY WARNING SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. PLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.

6. THRESHOLDS SHALL NOT BE MORE THAN 1/2" HIGHER THAN ADJACENT FLOOR OR LANDING. LEVEL CHANGE BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH SLOPE NO GREATER THAN 1:2.

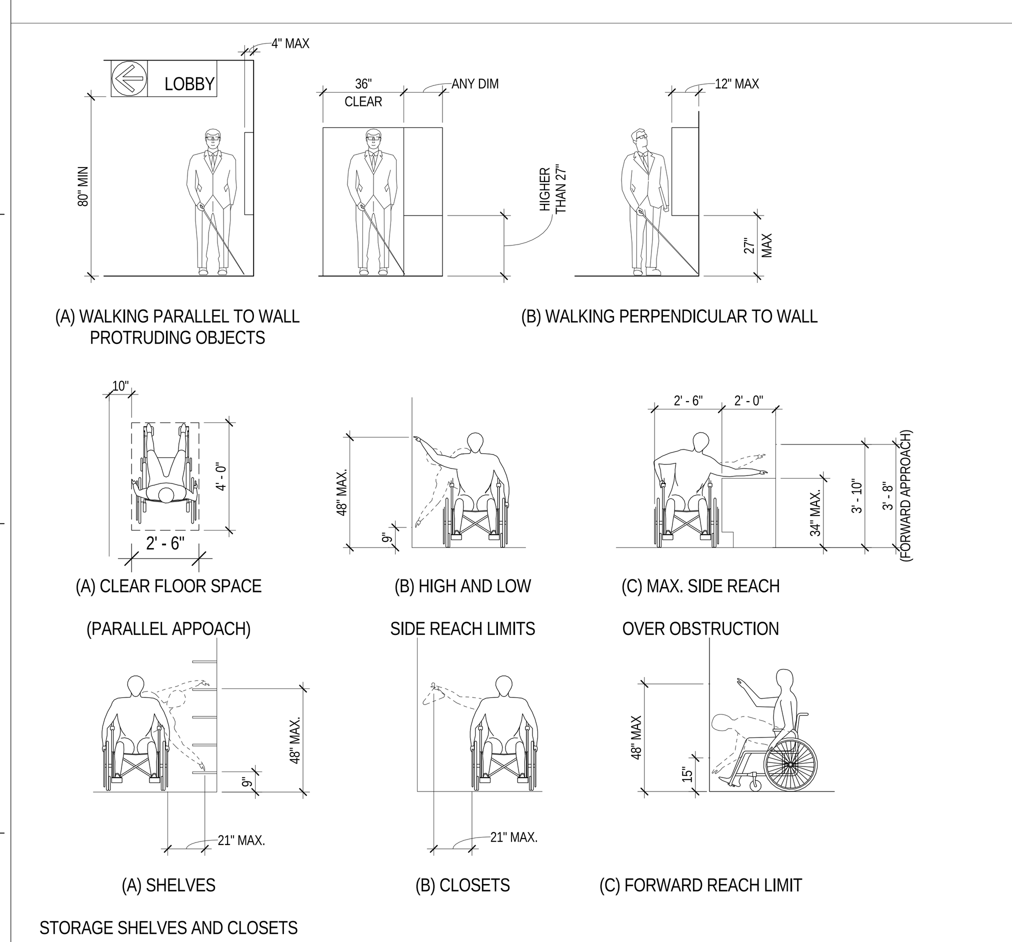
7. CENTER OF ALARM PULL BOXES SHALL BE 4'-0" A.F.F.

NOTE:
AT TOILET ROOMS WITH FINISHED DIMENSIONS LESS THAN 5'-5" X 7'-4", Y=48" Y=54" MINIMUM SHALL BE PROVIDED IF THE DOOR HAS A CLOSER.

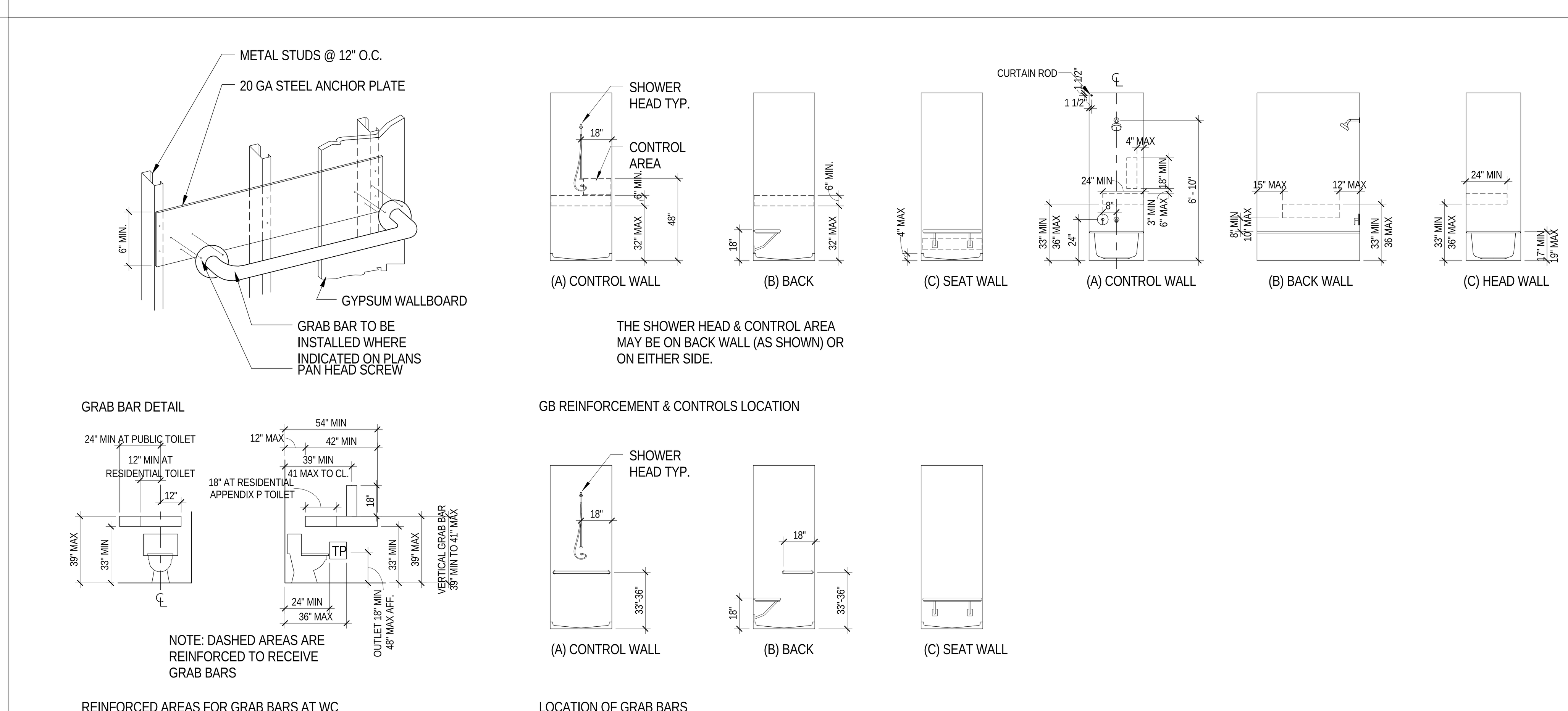


NOTES:
1. ADJ TO LATCH SIDE OF DOOR
2. 6" PICTOGRAM WITH VERBAL DESCRIPTION.
3. CENTER 60" FROM FLOOR.
4. LETTERS AND NUMERALS ARE RAISED 1/32" SANS-SERIF UPPERCASE CHARACTERS
5. BLACK COPY ON A BRUSHED ALUM. BACKGROUND.

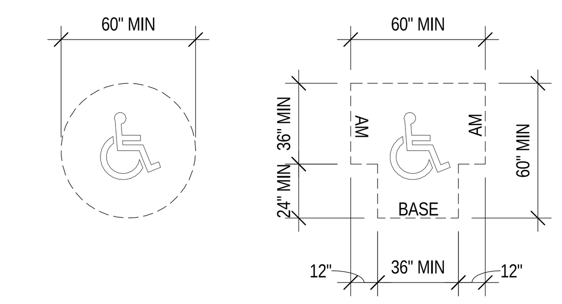
MANEUVERING & PROTRUDING OBJECTS



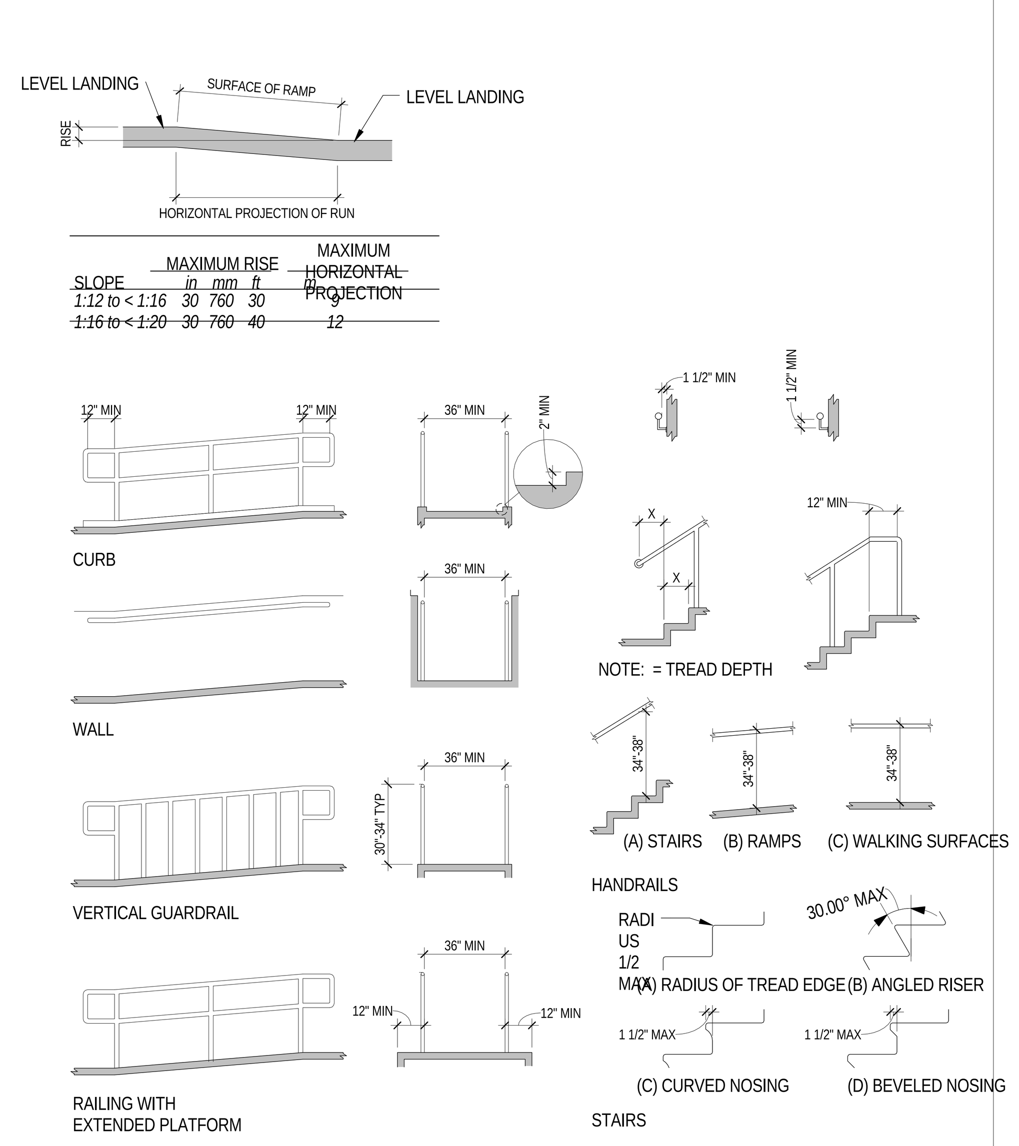
GRAB BARS



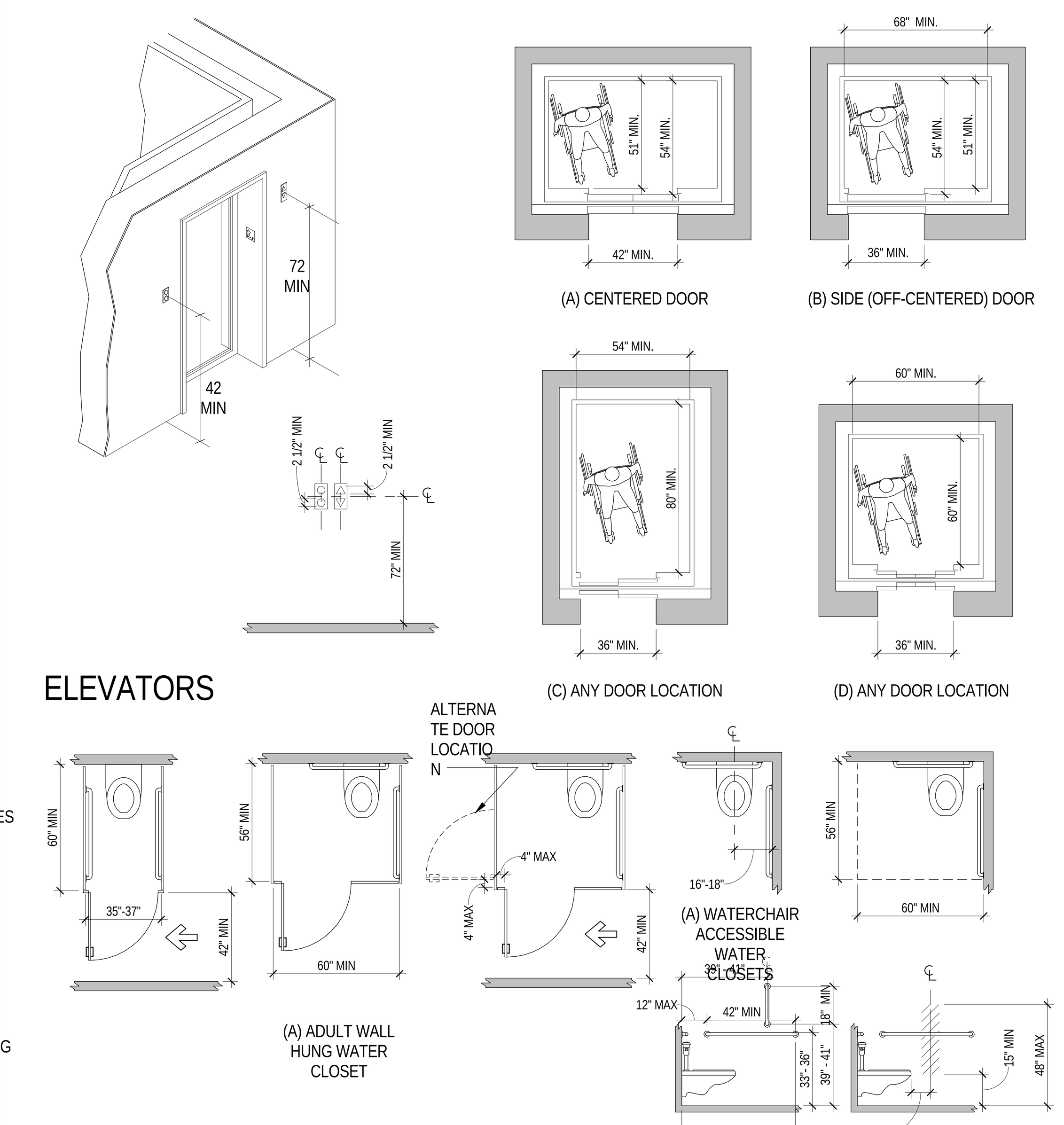
TURNING SPACE REQUIREMENTS

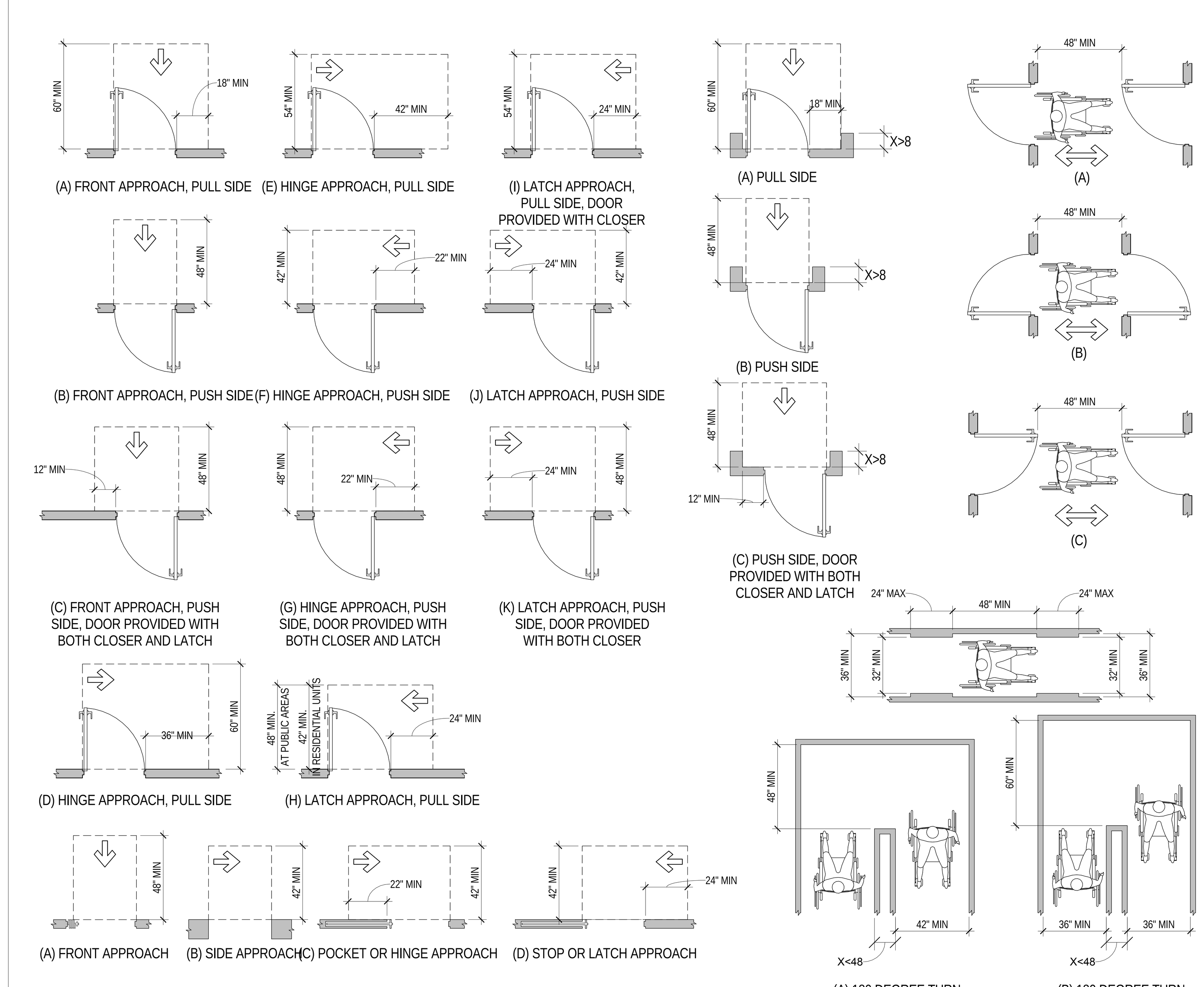


PRIMARY ACCESS



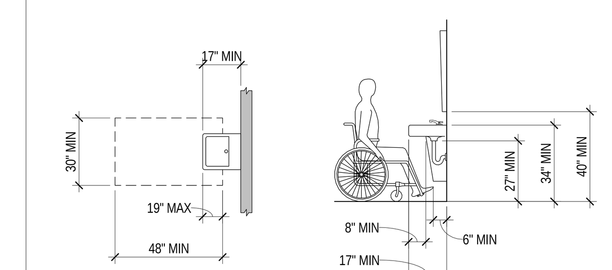
MANEUVERING CLEARANCES AND PROTRUDING OBJECTS



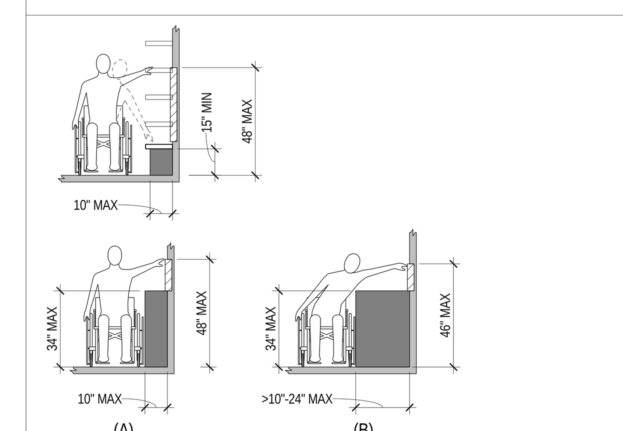


DOORS & MANEUVERING CLEARANCES

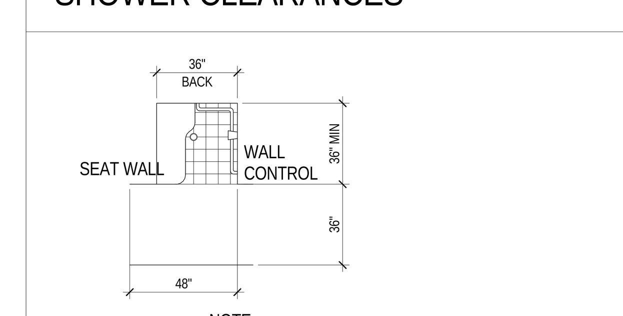
LAVATORIES & SINKS



STORAGE



SHOWER CLEARANCES



NOTE:
A 36" X 36" SHOWER SHALL HAVE CURBS NO HIGHER THAN 4".

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301 PARK AVENUE

2 P-FIRM MAP

301 PARK AVENUE

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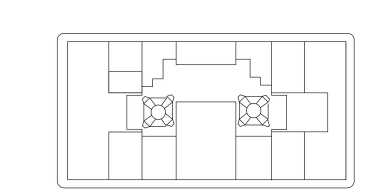

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NYS MULTIPLE DWELLING LAW NOTES

ARTICLE 3: MULTIPLE DWELLINGS — GENERAL PROVISIONS
SECTION 25. APPLICATION OF ARTICLE 3

TITLE 1 — LIGHT AND AIR
SECTION 26. HEIGHT, BULK, OPEN SPACES
SECTION 28. TWO OR MORE BUILDINGS ON SAME LOT
SECTION 29. PAINTING OF COURTS AND SHAFTS
SECTION 30. LIGHTING AND VENTILATION OF ROOMS
ECTION 31. SIZE OF ROOMS
SECTION 32. ALCOVES.SECTION
33. COOKING SPACES.SECTION
34. ROOMS IN BASEMENTS AND CELLARS
SECTION 35. ENTRANCE DOORS AND LIGHTS
SECTION 36. WINDOWS AND SKYLIGHTS FOR PUBLIC HALLS AND STAIRS
SECTION 37. ARTIFICIAL HALL LIGHTING

TITLE 2 — FIRE PROTECTION AND SAFETY

SECTION 50. ENTRANCE HALLS
SECTION 50-A ENTRANCES: DOORS, LOCKS AND INTERCOMMUNICATION SYSTEMS
SECTION 50-C RIGHTS OF TENANTS TO OPERATE AND MAINTAIN A LOBBY ATTENDANT SERVICE
SECTION 51. SHAFTS, ELEVATORS AND DUMBWAITERS
SECTION 51-A PEEPHOLES
SECTION 51-B MIRRORS IN CONNECTION WITH SELF-SERVICE ELEVATORS
SECTION 51-C RIGHTS OF TENANTS TO INSTALL AND MAINTAIN LOCKS IN CERTAIN ENTRANCE DOORS
SECTION 52. STAIRS
SECTION 53. FIRE-ESCAPES
SECTION 54. CELLAR ENTRANCE
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SECTION 56. FRAME BUILDINGS AND EXTENSIONS
SECTION 57. BELLS; MAIL RECEPTACLES
SECTION 58. INCOMBUSTIBLE MATERIALS
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SECTION 60. MOTOR VEHICLE STORAGE
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SECTION 63. SUB-CURB USES
SECTION 64. LIGHTING; GAS METERS; GAS AND OIL APPLIANCES
SECTION 65. BOILER ROOMS.SECTION 66. LODGING HOUSES
SECTION 67. HOTELS AND CERTAIN OTHER CLASS A AND CLASS B DWELLINGS
SECTION 68. SMOKE DETECTING DEVICES.

TITLE 3 — SANITATION AND HEALTH

SECTION 75. WATER SUPPLY
SECTION 76. WATER-CLOSET AND BATH ACCOMMODATIONS
SECTION 77. PLUMBING AND DRAINAGE
SECTION 78. REPAIRS
SECTION 79. HEATING
SECTION 80. CLEANLINESS
SECTION 81. RECEPTACLES FOR WASTE MATTER
SECTION 82. PRIVACY
SECTION 83. JANITOR OR HOUSEKEEPER
SECTION 84. CONSTRUCTION STANDARDS FOR THE CONTROL OF NOISE.

SEC. 25. APPLICATION OF ARTICLE THREE.

EXCEPT AS OTHERWISE EXPRESSLY PROVIDED, ALL THE PROVISIONS OF THIS ARTICLE SHALL APPLY TO EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE. EXCEPT AS OTHERWISE EXPRESSLY PROVIDED, ONLY THE FOLLOWING ENUMERATED SECTIONS OF THIS ARTICLE, AND THEN ONLY TO THE EXTENT REQUIRED THEREIN, SHALL APPLY TO MULTIPLE DWELLINGS, WHETHER CLASS A OR CLASS B, ERECTED BEFORE SUCH DATE: SEC. 28-29, 31 (SUBDIVISION SIX), 33, 35, 37. 50S, 52, 55-62, 66, 75-81, 83

TITLE 1 — LIGHT AND AIR

SEC. 26. HEIGHT, BULK, OPEN SPACES.

1. DWELLINGS AFFECTED.

A. THIS SECTION, EXCEPT AS MAY SPECIFICALLY BE PROVIDED OTHERWISE IN ARTICLES SIX AND SEVEN, SHALL APPLY TO ALL DWELLINGS ERECTED, ENLARGED, CONVERTED OR ALTERED PURSUANT TO PLANS FILED ON OR AFTER DECEMBER FIFTEENTH, NINETEEN HUNDRED SIXTY-ONE FOR THE PURPOSE OF REGULATING THEIR HEIGHT AND BULK AND REGULATING AND DETERMINING THE AREA OF YARDS, COURTS AND OTHER OPEN SPACES OF SUCH DWELLINGS.

B. THE CONSTRUCTION, ENLARGEMENT, CONVERSION OR ALTERATION OF ANY DWELLING UNDERTAKEN PURSUANT TO PLANS FILED PRIOR TO DECEMBER FIFTEENTH, NINETEEN HUNDRED SIXTY-ONE IN COMPLIANCE WITH THE PROVISIONS OF SECTIONS TWENTY-SIX, TWENTY-SEVEN AND TWENTY-EIGHT OF THIS CHAPTER, AS THEY EXISTED PRIOR TO THE ENACTMENT OF CHAPTER TEN HUNDRED SEVENTY-TWO OF THE LAWS OF NINETEEN HUNDRED SIXTY, EFFECTIVE JULY FIRST, NINETEEN HUNDRED SIXTY-ONE MAY BE COMMENCED, CONTINUED OR COMPLETED AS IF SUCH SECTIONS REMAINED IN FULL FORCE AND EFFECT. NOTWITHSTANDING THE PROVISIONS OF SUBDIVISION FOUR OF SECTION THREE HUNDRED, THE DEPARTMENT SHALL NOT REQUIRE ANY CHANGE OR MODIFICATION IN THE HEIGHT OR BULK OR IN THE AREA OF YARDS, COURTS AND OTHER OPEN SPACES OF DWELLINGS TO BE ERECTED OR ENLARGED PURSUANT TO PLANS FILED PRIOR TO DECEMBER FIFTEENTH, NINETEEN HUNDRED SIXTY-ONE AS A CONDITION FOR THE REISSUANCE OF A BUILDING PERMIT OR THE RENEWAL OF AN APPROVAL, EXCEPT AS MAY OTHERWISE BE PROVIDED BY LOCAL LAW, ORDINANCE OR ZONING ORDINANCE.

C. NOTHING IN THIS SECTION SHALL BE CONSTRUED TO REQUIRE ANY CHANGE IN THE HEIGHT, BULK, OR OPEN SPACE OF ANY DWELLING ERECTED, ENLARGED, CONVERTED OR ALTERED PURSUANT TO PLANS FILED BEFORE DECEMBER FIFTEENTH, NINETEEN HUNDRED SIXTY-ONE.

D. NOTWITHSTANDING THE PROVISIONS OF PARAGRAPHS A, B OR C, THE PROVISIONS OF THIS SECTION SHALL APPLY TO BUILDINGS ERECTED, ENLARGED, CONVERTED OR ALTERED PURSUANT TO PLANS FILED PRIOR TO DECEMBER FIFTEENTH, NINETEENHUNDRED SIXTY-ONE, WHERE SUCH COMPLIANCE MAY BE REQUIRED BY LOCAL LAW, ORDINANCE OR ZONING ORDINANCE.

2. DEFINITIONS.

FOR THE PURPOSE OF THIS SECTION CERTAIN WORDS ARE DEFINED HEREIN BUT SUCH DEFINITIONS SHALL NOT BE HELD TO MODIFY OR AFFECT LEGAL INTERPRETATIONS OF SUCH TERMS OR WORDS AS USED IN ANY LOCAL LAW, ORDINANCE, RULE OR REGULATION AND SHALL APPLY IN ADDITION TO AND NOT IN SUBSTITUTION FOR THE PROVISIONS OF SECTION FOUR OF THIS CHAPTER.

A. "ACCESSORY USE OR ACCESSORY STRUCTURE": A USE OR STRUCTURE CUSTOMARILY INCIDENT TO THE PRINCIPAL USE OR BUILDING:

B. "FLOOR AREA": THE SUM OF THE GROSS HORIZONTAL AREAS OF ALL OF THE SEVERAL FLOORS OF A DWELLING OR DWELLINGS AND ACCESSORY STRUCTURES ON A LOT MEASURED FROM THE EXTERIOR FACES OF EXTERIOR WALLS OR FROM THE CENTER LINE OF PARTY WALLS, EXCEPT:

(1) CELLAR SPACE;
(2) ATTIC SPACE PROVIDING HEAD ROOM OF LESS THAN EIGHT FEET;
(3) SPACE FOR MECHANICAL EQUIPMENT;
(4) ELEVATOR AND STAIR BULKHEADS, TANKS AND COOLING TOWERS;
(5) OPEN OR ROOFED TERRACES, EXTERIOR BALCONIES OR PORCHES, UNCOVERED STEPS AND OPEN PORTE-COCHERES OR BREEZEWAYS ABUTTING OR ADJOINING GRADE ENTRANCES;
(6) ACCESSORY SPACE USED FOR OFF-STREET MOTOR VEHICLE PARKING OR STORAGE.

C. "FLOOR AREA RATIO (FAR)": A FIGURE DETERMINED BY DIVIDING THE FLOOR AREA OF THE SEVERAL FLOORS OF ALL BUILDINGS ON A LOT BY THE AREA OF SUCH LOT.

D. "CORNER LOT": A LOT BOUNDED ENTIRELY BY STREETS OR A LOT WHICH ADJOINS THE POINT OF INTERSECTIONS OF TWO OF MORE STREETS AND IN WHICH THE INTERIOR ANGLE FORMED BY THE EXTENSIONS OF THE STREET LINES IN THE DIRECTIONS WHICH THEY TAKE AT THEIR INTERSECTIONS WITH LOT LINES OTHER THAN STREET LINES, FORMS AN ANGLE OF ONE HUNDRED THIRTY-FIVE DEGREES OR LESS. IN THE EVENT THAT ANY STREET LINE IS A CURVE AT ITS POINT OF INTERSECTION WITH A LOT LINE OTHER THAN A STREET LINE, THE TANGENT TO THE CURVE AT THAT POINT SHALL BE CONSIDERED THE DIRECTION OF THE STREET LINE. THE PORTION OF SUCH LOT SUBJECT TO THE REGULATIONS FOR CORNER LOTS IS THAT PORTION BOUNDED BY THE INTERSECTING STREET LINE AND LINES PARALLEL TO AND ONE HUNDRED FEET FROM EACH INTERSECTING STREET LINE. ANY REMAINING PORTION OF A CORNER LOT SHALL BE SUBJECT TO THE REGULATIONS FOR A THROUGH LOT OR FOR AN INTERIOR LOT, WHICHEVER IS APPLICABLE.

E. "TOWER": A DWELLING OR DWELLINGS OR PORTION THEREOF WHICH HAS AN AGGREGATE HORIZONTAL AREA OF NOT MORE THAN FORTY PER CENTUM OF THE AREA OF A LOT, OR, FOR LOTS OF LESS THAN TWENTY THOUSAND SQUARE FEET, THE PER CENTUM SET FORTH IN THE FOLLOWING TABLE:

AREA OF LOT (IN SQUARE FEET)	MAXIMUM PERCENT OF LOT COVERAGE
10,500 OR LESS	50%
10,501 TO 11,500	49
11,501 TO 12,500	48
12,501 TO 13,500	47
13,501 TO 14,500	46
14,501 TO 15,500	45
15,501 TO 16,500	44
16,501 TO 17,500	43
17,501 TO 18,500	42
18,501 TO 19,999	41

3. FLOOR AREA RATIO (FAR)
THE FLOOR AREA RATIO (FAR) OF ANY DWELLING OR DWELLINGS ON A LOT SHALL NOT EXCEED 12.0, EXCEPT THAT A FIREPROOF CLASS B DWELLING IN WHICH SIX OR MORE PASSENGER ELEVATORS ARE MAINTAINED AND OPERATED IN ANY CITY HAVING A LOCAL ZONING LAW, ORDINANCE OR RESOLUTION RESTRICTING DISTRICTS IN SUCH CITY TO RESIDENTIAL USE, MAY BE ERECTED IN ACCORDANCE WITH THE PROVISIONS OF SUCH ZONING LAW, ORDINANCE OR RESOLUTION, IF SUCH CLASS B DWELLING IS ERECTED IN A DISTRICT NO PART OF WHICH IS RESTRICTED BY SUCH ZONING LAW, ORDINANCE OR RESOLUTION TO RESIDENTIAL USES.

4. HEIGHT.
A DWELLING MAY BE ERECTED TO ANY HEIGHT AND ANY NUMBER OF STORIES SO LONG AS IT DOES NOT EXCEED THE BULK LIMITATIONS HEREINAFTER PRESCRIBED.

5. REAR YARD.

A. EXCEPT AS OTHERWISE PROVIDED IN THE ZONING RESOLUTION OF THE CITY OF NEW YORK AND EXCEPT AS HEREINAFTER PROVIDED FOR A CORNER LOT, AN INTERIOR LOT WITHIN ONE HUNDRED FEET OF THE POINT OF INTERSECTION OF THE TWO STREET LINES INTERSECTING AT AN ANGLE OF ONE HUNDRED THIRTY-FIVE DEGREES OR LESS, AN INTERIOR LOT FRONTING ON A BLOCK MEASURING LESS THAN TWO HUNDRED THIRTY FEET IN LENGTH BETWEEN TWO INTERSECTING STREETS OR A THROUGH LOT, A REAR YARD SHALL BE REQUIRED FOR EACH DWELLING AND SHALL EXTEND THE ENTIRE WIDTH OF THE LOT AT EVERY POINT. FOR DWELLINGS OCCUPYING AN ENTIRE BLOCK OR A THROUGH LOT, NO REAR YARD SHALL BE REQUIRED. WHEN DWELLINGS DO NOT EXCEED IN AREA THIRTY-FIVE PER CENTUM OF THE PLOT, THE DEPARTMENT SHALL PERMIT SUCH LOCATION OF YARDS AND COURTS AS WILL PROMOTE THE BEST POSSIBLE PLOT VENTILATION. FOR PURPOSES OF THIS PARAGRAPH A, A BLOCK SHALL NOT BE DEEMED LESS THAN AN ENTIRE BLOCK BECAUSE A PORTION THEREOF IS CONVEYED AFTER CONSTRUCTION OF SUCH MULTIPLE DWELLING OR DWELLINGS TO A CITY FOR PUBLIC PARK PURPOSES.

B. EXCEPT AS OTHERWISE PROVIDED IN THE ZONING RESOLUTION OF THE CITY OF NEW YORK, THE MINIMUM DEPTH OF A REQUIRED REAR YARD SHALL BE THIRTY FEET FOR THE FIRST ONE HUNDRED TWENTY-FIVE FEET ABOVE CURB LEVEL, AND FIFTY FEET ABOVE THAT POINT. THE DEPTH OF A REAR YARD SHALL BE MEASURED AT RIGHT ANGLES FROM THE REAR LOT LINE TO THE EXTREME EXTERIOR REAR WALL OF THE DWELLING. THE PROVISIONS OF THIS PARAGRAPH REQUIRING A REAR YARD FIFTY FEET IN DEPTH FOR PORTIONS OF A BUILDING IN EXCESS OF ONE HUNDRED TWENTY-FIVE FEET ABOVE THE CURB LEVEL SHALL NOT BE APPLIED TO A TOWER.

C. EXCEPT AS OTHERWISE PROVIDED IN THE ZONING RESOLUTION OF THE CITY OF NEW YORK, ON A CORNER LOT NO REAR YARD SHALL BE REQUIRED, PROVIDED, HOWEVER, EVERY REQUIRED WINDOW SHALL OPEN INTO EITHER:
(1) A LAWFUL INNER OR OUTER COURT; OR(2) A SIDE OR REAR YARD WITH A MINIMUM WIDTH OR DEPTH OF THIRTY FEET IN ONE DIRECTION; OR(3) IF SUCH LOT IS LESS THAN TEN THOUSAND SQUARE FEET IN AREA, A SIDE YARD WITH A MINIMUM WIDTH OF TWENTY FEET, OR AN INNER SPACE EQUIVALENT TO THE AREA OF A LAWFUL INNER COURT.

D. EXCEPT AS OTHERWISE PROVIDED IN THE ZONING RESOLUTION OF THE CITY OF NEW YORK, ON ANY THROUGH LOT ONE HUNDRED TEN FEET OR MORE IN MAXIMUM DEPTH FROM STREET TO STREET, ONE OF THE FOLLOWING REAR YARD EQUIVALENTS SHALL BE PROVIDED:

(1) AN OPEN AREA WITH A MINIMUM DEPTH OF SIXTY FEET, EXTENDING ACROSS THE ENTIRE LOT AND LINKING ABUTTING REAR YARDS, OR IF NO SUCH REAR YARDS EXIST, THEN AN OPEN AREA, WITH A MINIMUM DEPTH OF SIXTY FEET, MIDWAY (OR WITHIN FIVE FEET THEREOF) BETWEEN THE TWO STREET LINES UPON WHICH SUCH THROUGH LOT FRONTS AND PROVIDED FURTHER THAT THE PROVISIONS OF PARAGRAPH B OF THIS SUBDIVISION SHALL APPLY ABOVE A HEIGHT OF ONE HUNDRED AND TWENTY-FIVE FEET ABOVE THE CURB LEVEL AS IF SUCH REAR YARD EQUIVALENT WERE TWO ADJOINING REAR YARDS; OR
(2) TWO OPEN AREAS, EACH ABUTTING AND EXTENDING ALONG THE FULL LENGTH OF A STREET LINE, AND EACH WITH A MINIMUM DEPTH OF THIRTY FEET MEASURED FROM SUCH STREET LINE; OR
(3) AN OPEN AREA ADJOINING AND EXTENDING ALONG THE FULL LENGTH OF EACH SIDE LOT LINE, WITH A MINIMUM WIDTH OF THIRTY FEET MEASURED FROM EACH SIDE LOT LINE.

E. WHEN THE MAXIMUM DEPTH OF ANY INTERIOR LOT OWNED SEPARATELY AND INDIVIDUALLY FROM ALL OTHER ADJOINING TRACTS OF LAND ON DECEMBER FIFTEENTH, NINETEEN HUNDRED SIXTY-ONE IS LESS THAN SEVENTY FEET, THE REQUIRED DEPTHOF THE REAR YARD OF A DWELLING ON SUCH LOT FOR THE FIRST ONE HUNDRED TWENTY-FIVE FEET ABOVE CURB LEVEL MAY BE DECREASED ONE FOOT FOR EACH FOOT BY WHICH THE MAXIMUM DEPTH IS LESS THAN SEVENTY FEET. HOWEVER, ANY SUCH YARD SHALL NEVER BE LESS THAN TEN FEET IN DEPTH AT ANY POINT ABOVE ITS LOWEST LEVEL.

F. EXCEPT FOR FIREPROOF BUILDINGS AND EXCEPT AS OTHERWISE PROVIDED IN THIS PARAGRAPH THERE SHALL BE ACCESS FROM A STREET TO THE YARD THROUGH A FIREPROOF PASSAGE EITHER IN A DIRECT LINE OR THROUGH A COURT. SUCH PASSAGE SHALLBE NOT LESS THAN THREE FEET IN CLEAR WIDTH AND SEVEN FEET IN HEIGHT. SUCH PASSAGE SHALL NOT BE REQUIRED FOR A MULTIPLE DWELLING WHICH DOES NOT EXCEED THREE STORIES IN HEIGHT AND IS NOT OCCUPIED BY MORE THAN ONE FAMILY ON ANY STORY OR THREE FAMILIES IN ALL OR FOR A DWELLING WHICH DOES NOT EXCEED TWO STORIES IN HEIGHT AND IS NOT OCCUPIED BY MORE THAN TWO FAMILIES ON ANY STORY OR FOUR FAMILIES IN ALL PROVIDED EVERY REQUIRED MEANS OF EGRESS FROM SUCH DWELLING LEADS DIRECTLY TO A STREET OR TO AN OUTER COURT OPENING UPON A STREET. WHEN A DWELLING DOES NOT EXCEED THREE STORIES IN HEIGHT AND IS NOT OCCUPIED BY MORE THAN TWO FAMILIES ON ANY STORY, SUCH PASSAGEMAY BE OF FIRE-RETARDED CONSTRUCTION.

6. SIDE YARD.

EXCEPT AS OTHERWISE PROVIDED IN THE ZONING RESOLUTION OF THE CITY OF NEW YORK, NO SIDE YARD SHALL BE REQUIRED. IF A SIDE YARD IS PROVIDED IT SHALL IN NO EVENT BE LESS THAN EIGHT FEET IN WIDTH AT ANY POINT. SUCH SIDE YARD NEED NOT EXCEED THIRTY FEET IN WIDTH.

7. COURTS.

EXCEPT AS OTHERWISE PROVIDED IN THE ZONING RESOLUTION OF THE CITY OF NEW YORK:

A. AN INNER COURT SHALL HAVE MINIMUM WIDTH OF FOUR INCHES PER FOOT FOR EACH ONE FOOT OF HEIGHT OF SUCH COURT, BUT IN NO EVENT LESS THAN FIFTEEN FEET IN WIDTH AT ANY POINT. THE AREA OF SUCH INNER COURT SHALL BE TWICE THE SQUARE OF THE WIDTH OF THE COURT DIMENSION BASED ON THE HEIGHT OF SUCH COURT, BUT IN NO EVENT LESS THAN THREE HUNDRED FIFTY SQUARE FEET IN AREA. THE AREA OF SUCH COURT NEED NOT EXCEED ONE THOUSAND TWO HUNDRED SQUAREFEET PROVIDED THAT THE MINIMUM HORIZONTAL DISTANCE BETWEEN ANY REQUIRED WINDOW OF A LIVING ROOM OPENING ON AN INNER COURT SHALL NOT BE LESS THAN THIRTY FEET FROM ANY WALL OPPOSITE SUCH WINDOW. FOR A DWELLING THREE STORIES OR LESS IN HEIGHT, AN INNER COURT MAY HAVE A MINIMUM WIDTH OF THREE INCHES FOR EACH ONE FOOT OF HEIGHT OF SUCH COURT, BUT IN NO EVENT LESS THAN TEN FEET IN WIDTH AT ANY POINT. THE AREA OF SUCH COURT SHALL BE TWICE THE SQUARE OF THE REQUIRED WIDTH OF COURT DIMENSION BASED ON THE HEIGHT OF SUCH COURT BUT IN NO EVENT LESS THAN TWO HUNDRED FIFTY SQUARE FEET IN AREA. AN AIR IN-TAKE OF FIREPROOF CONSTRUCTION SHALL BE PROVIDED AT OR NEAR THE LOWEST LEVEL OF EVERY INNER COURT OF DWELLINGS EXCEEDING TWO STORIES IN HEIGHT, AND SHALL COMMUNICATE DIRECTLY WITH A STREET OR YARD. SUCH INTAKE SHALL HAVE A VERTICAL CROSS-SECTIONAL AREA OF NOT LESS THAN TWENTY-ONE SQUARE FEET AND A MINIMUM WIDTH OF NOT LESS THAN THREE FEET IN ITS LEAST DIMENSION, AND SHALL BE OPEN AND UNOBSTRUCTED THROUGHOUT, EXCEPT THAT WHERE THE IN-TAKE IS NOT USED AS A PASSAGE OR EXIT, GATES OR GRILLES WHICH DO NOTINTERFERE WITH VENTILATION MAY BE INSTALLED.

B. AN OUTER COURT AT ANY GIVEN HEIGHT SHALL HAVE A MINIMUM WIDTH AT LEAST EQUAL TO TWICE THE DEPTH OF SUCH OUTER COURT IF SUCH OUTER COURT IS LESS THAN THIRTY FEET WIDE. SUCH OUTER COURT SHALL HAVE A WIDTH AT LEAST EQUAL TO ITS DEPTH IF SUCH COURT IS THIRTY FEET OR MORE IN WIDTH. AN OUTER COURT NEED NOT EXCEED SIXTY FEET IN WIDTH. EXCEPT AS PROVIDED IN SECTION SIXTY, AN OUTER COURT ON A SIDE LOT LINE MAY BEGIN AT THE LEVEL OF THE FLOOR OF THE LOWEST STORY IN WHICH THERE IS A LIVING ROOM OPENING THEREFROM. ANY OUTER COURT NOT ON A SIDE LOT LINE MAY BEGIN AT ANY LEVEL, THE HEIGHT OF SUCH COURT TO BE MEASURED FROM THE LEVEL AT WHICH SUCH COURT BEGINS.

7-A LIGHTS IN REAR YARDS, SIDE YARDS, FRONT YARDS AND COURTS.
THE OWNER OF EVERY DWELLING SHALL INSTALL AND MAINTAIN IN EVERY REAR YARD, SIDE YARD, FRONT YARD AND COURT A LIGHT OR LIGHTS OF AT LEAST FORTY WATTS OF INCANDESCENT ILLUMINATION OR EQUIVALENT ILLUMINATION, IN SUCH LOCATIONS AS THE DEPARTMENT MAY PRESCRIBE, WHICH SHALL BE KEPT BURNING FROM SUNSET ON EACH DAY TO SUNRISE ON THE DAY FOLLOWING.

8. LEVEL OF AREAS ADJOINING LIVING ROOMS.

THE BOTTOM OF ANY YARD, REAR YARD EQUIVALENT, COURT OR OTHER OPEN AREA WHICH ABUTS OR ADJOINS AND GIVES LIGHT OR VENTILATION TO A LIVING ROOM SHALL BE AT THE FLOOR LEVEL OR LOWER OF SUCH LIVING ROOM, EXCEPT THAT:

A. IF THE DEPTH OF A YARD EXCEEDS THE MINIMUM REQUIRED DEPTH BY AS MUCH AS ONE-HALF, THE BOTTOM OF SUCH YARD MAY BE AT ANY LEVEL NOT HIGHER THAN SIX INCHES BELOW THE WINDOW SILLS OF ANY SUCH ADJOINING LIVING ROOM ANDNOT MORE THAN THREE FEET ABOVE THE FLOOR OF SUCH ROOM.

B. IF THE WIDTH OF AN OUTER COURT EXCEEDS THE MINIMUM REQUIRED BY AS MUCH AS FORTY PER CENTUM, THE BOTTOM OF SUCH COURT MAY BE AT ANY LEVEL PERMITTED BY PARAGRAPH A FOR A YARD OR REAR YARD EQUIVALENT.

9. PERMITTED OBSTRUCTIONS.

EVERY YARD AND COURT SHALL COMPLY WITH ALL THE REQUIREMENTS OF THIS SECTION AND BE OPEN AND UNOBSTRUCTED AT EVERY POINT FROM THE LOWEST LEVEL TO THE SKY EXCEPT THAT THE FOLLOWING SHALL NOT BE DEEMED TO OBSTRUCT OR REDUCE THE AREA OF OTHERWISE LAWFUL YARDS, REAR YARD EQUIVALENTS OR COURTS, PROVIDED THAT REQUIRED LIGHT AND VENTILATION FOR LIVING ROOMS AND REQUIRED EGRESS FROM THE DWELLING ARE MAINTAINED TO THE SATISFACTION OF THE DEPARTMENT:

A. ACCESSORY OFF-STREET PARKING SPACES, OPEN OR ENCLOSED, CONFORMING TO THE APPLICABLE PROVISIONS OF SECTION SIXTY.

B. FIRE ESCAPES ERECTED AS PROVIDED IN PARAGRAPH B OF SUBDIVISION TWO OF SECTION FIFTY-THREE.

C. IN A YARD OR REAR YARD EQUIVALENT, BOILER FLUES OR CHIMNEYS PROJECTING NOT MORE THAN THREE FEET INTO SUCH YARD AND PROVIDED EVERY SUCH FLUE OR CHIMNEY DOES NOT EXCEED TWO PER CENT OF THE REQUIRED AREA OF THE YARD.

D. OUTSIDE STAIRWAYS, FIRE TOWERS, PLATFORMS OR BALCONIES OR OTHER SIMILAR PROJECTIONS WHICH EXTEND BEYOND THE WALL OF THE DWELLING.

E. ENCLOSURES OF BALCONIES OR SPACES ERECTED AS PROVIDED IN SUBDIVISION FOUR OF SECTION THIRTY.

F. ARBORS, TRELLISES, AWNINGS OR CANOPIES, FENCES, FLAG POLES, OPEN STEPS, OR BREEZEWAYS.

G. RECREATIONAL OR DRYING YARD EQUIPMENT EXCEPT AS OTHERWISE PROVIDED IN SECTION FIFTY-SIX.

H. WALLS NOT EXCEEDING EIGHT FEET IN HEIGHT AND NOT ROOFED OR PART OF A STRUCTURE.

I. RETAINING WALLS TO PROTECT ADJOINING PREMISES PROVIDED SUCH WALLS ARE NOT MORE THAN FIFTEEN FEET IN HEIGHT MEASURED FROM THE CURB LEVEL OF THE LOT ON WHICH SUCH WALLS ARE ERECTED, DO NOT EXTEND ABOVE THE SILL OF ANY REQUIRED LIVING ROOM WINDOW ON THE FIRST STORY FACING SUCH A WALL AND DO NOT EXTEND MORE THAN THIRTY-SIX INCHES INTO THE REQUIRED AREA OF A YARD, REAR YARD EQUIVALENT OR COURT.

J. A PARTY WALL NOT MORE THAN TWELVE INCHES INTO THE REQUIRED AREA OF A YARD, OR REAR YARD EQUIVALENT OR COURT.

K. NOTHING IN THIS SECTION SHALL BE DEEMED TO PREVENT CUTTING OFF THE CORNERS OF ANY YARD, REAR YARD EQUIVALENT OR COURT, PROVIDED THE RUNNING LENGTH OF THE WALL AT THE ANGLE OF SUCH YARD OR COURT DOES NOT EXCEED SEVEN FEET.

L. IN A REAR YARD EQUIVALENT, AN ENCLOSED PASSAGEWAY CONNECTING PORTIONS OF SEPARATE BUILDINGS WHERE SUCH PASSAGEWAY DOES NOT EXCEED FOURTEEN FEET IN HEIGHT AND FIFTEEN FEET IN WIDTH MEASURED BETWEEN THE OUTER FACES OF THE WALLS THEREOF.

10. NOTHING CONTAINED IN THIS SECTION SHALL BE DEEMED TO PREVENT THE TURFING OVER OF ANY YARD OR COURT SPACE OR THE PLANTING OF SHRUBS OR TREES THEREIN WHEN APPROVED BY THE DEPARTMENT.

11. PENDING ACTIONS OR PROCEEDINGS. NOTHING CONTAINED IN THIS SECTION SHALL AFFECT OR IMPAIR ANY ACT DONE, OFFENSE COMMITTED OR RIGHT ACCRUING OR ACCRUED OR ACQUIRED, OR LIABILITY, PENALTY, FORFEITURE OR PUNISHMENT INCURRED PRIOR TO DECEMBER FIFTEENTH, NINETEEN HUNDRED SIXTY-ONE, BUT THE SAME WAY MAY BE ENJOYED, ASSERTED, ENFORCED, PROSECUTED OR INFLICTED AS FULLY AND TO THE SAME EXTEND AS IF THIS SECTION HAD NOT BEEN ENACTED.

SEC. 29. PAINTING OF COURTS AND SHAFTS.

THE EXTERIOR SURFACE OF ALL WALLS OF ALL COURTS AND SHAFTS OF MULTIPLE DWELLINGS, EXCEPT OF OUTER COURTS OPENING ON A STREET, AND COURTS HAVING DIMENSIONS OF AT LEAST FIFTY PERCENT IN EXCESS OF THE MINIMUM SET FORTH IN SECTION TWENTY-SIX, SHALL BE OF A LIGHT-COLORED BRICK OR STONE, OR BE THOROUGHLY WHITEWASHED OR PAINTED A LIGHT COLOR BY THE OWNER AND BE SO MAINTAINED. SUCH WHITEWASH OR PAINT SHALL BE RENEWED WHENEVER NECESSARY, AS MAY BEDETERMINED AND REQUIRED BY THE DEPARTMENT.

SEC. 30. LIGHTING AND VENTILATION OF ROOMS.

1. THE PROVISIONS OF THIS SECTION SHALL APPLY ONLY TO MULTIPLE DWELLINGS ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, AND SHALL APPLY TO ALL SUCH DWELLINGS UNLESS OTHERWISE EXPRESSLY LIMITED.

2. EXCEPT AS IN THIS SECTION AND IN SECTIONS THIRTY-THREE, SEVENTY-SIX, ONE HUNDRED FIFTEEN, ONE HUNDRED SIXTY, ONE HUNDRED SEVENTY-SIX, TWO HUNDRED, TWO HUNDRED THIRTEEN, TWO HUNDRED FIFTY AND TWO HUNDRED FIFTY-ONE OTHERWISE EXPRESSLY PROVIDED, EVERY ROOM, INCLUDING KITCHENS, WATER-CLOSET COMPARTMENTS AND BATHROOMS, SHALL HAVE AT LEAST ONE WINDOW OPENING DIRECTLY UPON A STREET OR UPON A LAWFUL YARD, COURT OR SPACE ABOVE A SETBACK UPON THE SAME LOT AS THAT OCCUPIED BY THE MULTIPLE DWELLING IN WHICH SUCH ROOM IS SITUATED. EVERY SUCH WINDOW SHALL BE SO LOCATED AS TO LIGHT PROPERLY ALL PORTIONS OF THE ROOM.

3. NO ROOM IN ANY APARTMENT OF THREE ROOMS OR LESS, AND NO ROOM IN ANY NON-FIREPROOF APARTMENT, SHALL EXTEND IN DEPTH, FROM A STREET OR YARD ON WHICH IT FACES, MORE THAN THIRTY FEET WITHOUT A WINDOW OPENING ON A LAWFUL COURT.

4. A. NOTHING IN THIS SECTION OR SECTION TWENTY-SIX SHALL BE CONSTRUED AS PROHIBITING THE WINDOWS OR DOORS OF ANY ROOM FROM OPENING ON A PARTIALLY-ENCLOSED BALCONY OR SPACE ABOVE A SETBACK, PROVIDED SUCH BALCONY OR SPACE OPENS DIRECTLY TO A STREET OR TO A LAWFUL YARD OR COURT AND THE AREA OF THE FRONT OF THE BALCONY OR SPACE WHICH IS OPEN TO THE OUTER AIR IS AT LEAST EQUAL TO SEVENTY-FIVE PER CENTUM OF THE FLOOR SURFACE AREA OF SUCH BALCONY OR SPACE. ANY LIVING ROOM THUS LIGHTED AND VENTILATED BY WINDOWS OR DOORS OPENING ON SUCH BALCONY OR SPACE SHALL BE AT MOST THIRTY FEET IN DEPTH MEASURED FROM THE EXTREME OUTER FACE OF THE WALL FORMING THEPARTIAL ENCLOSURE OF THE BALCONY OR SPACE. THE WINDOWS OR DOORS PROVIDING LIGHT AND VENTILATION FOR A ROOM OR ROOMS OPENING EXCLUSIVELY ON SUCH A BALCONY OR SPACE SHALL HAVE ALTOGETHER AT LEAST THE AREA OF ONE-TENTH OFTHE COMBINED FLOOR SURFACE OF SUCH ROOM OR ROOMS AND THE PORTION OF THE BALCONY OR SPACE DIRECTLY ADJOINING AND IN FRONT OF SUCH ROOM OR ROOMS.

B. ON A FIREPROOF DWELLING A BALCONY OR SPACE ABOVE A SETBACK PERMITTED UNDER PARAGRAPH A OF THIS SUBDIVISION MAY BE COMPLETELY ENCLOSED, PROVIDED THE OUTER ENCLOSING WALL OR WALLS AND ROOF ARE CONSTRUCTED OF INCOMBUSTIBLE MATERIALS AND THE WALLS ARE GLAZED WITH CLEAR PLATE GLASS OR PLASTIC EQUIVALENT AND SUCH GLAZED WALL AREA IS EQUAL TO AT LEAST FIFTY PER CENTUM OF THE AREA OF THE INTERIOR WALLS ENCLOSING SUCH BALCONY OR SPACE. AT LEAST FIFTY PER CENTUM OF THE GLAZED AREA SHALL BE OPENABLE DIRECTLY UPON A STREET OR UPON A LAWFUL YARD OR COURT. NO WINDOW SHALL OPEN FROM ANY BATHROOM, WATER-CLOSET COMPARTMENT OR COOKING SPACE UPON SUCH ENCLOSED BALCONY.

C. THE ENCLOSURE ON ANY BALCONY OR A SPACE ABOVE A SETBACK SHALL NOT (1) BE MORE THAN ONE STORY IN HEIGHT OR (2) BE ERECTED IN VIOLATION OF THE PROVISIONS OF PARAGRAPH A OF SUBDIVISION SIX OF SECTION ONE HUNDRED TWO OF THIS CHAPTER.

5. NO MULTIPLE DWELLING SHALL BE SO ALTERED AS TO DIMINISH THE LIGHT OR VENTILATION OF ANY ROOM OR PUBLIC HALL OR STAIRS IN ANY WAY NOT APPROVED BY THE DEPARTMENT.

6. NO WINDOW SHALL BE REQUIRED IN ANY PUBLIC ROOM OF A FIREPROOF MULTIPLE DWELLING IF SUCH ROOM IS USED SOLELY FOR STORAGE PURPOSES OR HAS ADEQUATE MECHANICAL VENTILATION MAINTAINED TO PROVIDE AT LEAST THE NUMBER OF CHANGES OF THE AIR VOLUME OF SUCH ROOM APPROVED BY THE DEPARTMENT AS NECESSARY FOR THE HEALTH AND SAFETY OF THE OCCUPANTS OF SUCH DWELLING. ANY FRESH AIR SUPPLY SYSTEM REQUIRED BY THE DEPARTMENT FOR SUCH PURPOSES SHALL BE PROVIDED WITH ADEQUATE MEANS FOR REMOVING DUST FROM THE INCOMING AIR AND WITH ADEQUATE MEANS TO HEAT SUCH AIR AT LEAST TO SIXTY DEGREES FAHRENHEIT.

7. NO REQUIRED WINDOW SHALL OPEN UPON ANY OFFSET OR RECESS LESS THAN SIX FEET IN WIDTH EXCEPT A WINDOW OF A WATER-CLOSET COMPARTMENT, BATHROOM, OR STAIR OR OF A COOKING COMPARTMENT LESS THAN FIFTY-NINE SQUARE FEET IN FLOOR SURFACE AREA.

8. (A) THE WINDOWS IN EVERY ROOM, EXCEPT A WATER-CLOSET COMPARTMENT, BATHROOM, OR COOKING SPACE LESS THAN FIFTY-NINE SQUARE FEET IN FLOOR SURFACE AREA, SHALL HAVE A TOTAL AREA AT LEAST ONE-TENTH OF THE FLOOR SURFACE AREAOF SUCH ROOM AND EVERY WINDOW IN SUCH A ROOM, INCLUDING A MULLIONED CASEMENT WINDOW, SHALL BE AT LEAST TWELVE SQUARE FEET IN AREA.

(B) ALL REQUIRED WINDOWS SHALL BE SO CONSTRUCTED THAT AT LEAST ONE-HALF OF THEIR REQUIRED AREA MAY BE OPENED, EXCEPT THAT A MULLIONED CASEMENT WINDOW, IF OTHERWISE LARGE ENOUGH TO SUPPLY THE WINDOW REQUIREMENTS OF THE ROOM, NEED BE READILY OPENABLE TO THE OUTER AIR ONLY TO THE EXTENT OF FIVE AND ONE-HALF SQUARE FEET OF ITS AREA.

(C) WHERE FRESH AIR IS FURNISHED IN ANY ROOM THROUGH A MECHANICAL VENTILATING UNIT OR SYSTEM WHICH IS AN INTEGRAL PART OF THE DWELLING STRUCTURE AND CAPABLE OF INTRODUCING NOT LESS THAN FORTY CUBIC FEET OF AIR PER MINUTE, THE REQUIRED WINDOW AREA IN SUCH ROOM NEED BE OPENABLE ONLY TO THE EXTENT OF TWENTY-FIVE PERCENT OF SUCH WINDOW AREA BUT IN NO EVENT LESS THAN FIVE AND ONE-HALF SQUARE FEET.

9. TRANSOMS OR PARTITION SASH, OR LOUVRES HAVING A MINIMUM AREA OF 144 SQUARE INCHES AND ARRANGED TO BE OPENED OR CLOSED, SHALL BE PROVIDED TO PRIVATE HALLS OR TO ADJOINING ROOMS TO SECURE THROUGH-VENTILATION WHENEVER REQUIRED BY THE DEPARTMENT, BUT NO SUCH TRANSOM OR PARTITION SASH OR LOUVRE SHALL BE REQUIRED IN A ROOM HAVING TWO WINDOWS OPENING TO THE OUTER AIR IF EACH WINDOW IS AT LEAST NINE SQUARE FEET IN AREA, OR IN A ROOM HAVING A MULLIONED OR SINGLE WINDOW WITH AN AGGREGATE AREA OF AT LEAST EIGHTEEN SQUARE FEET.

10. ALL WINDOWS AND THEIR ASSEMBLIES IN WALLS SITUATED ON A LOT LINE, EXCEPT THOSE FACING ON A STREET, SHALL BE FIREPROOF, WITH ASSEMBLIES HAVING A FIRE-RESISTIVE RATING OF AT LEAST THREE-QUARTERS OF AN HOUR AND GLAZED WITH WIRE GLASS AT LEAST ONE-QUARTER OF AN INCH THICK. EVERY OPENING IN A WALL SITUATED ON A LOT LINE WHICH IS LESS THAN FIFTY FEET IN A VERTICAL DIRECTION ABOVE A NON-FIREPROOF ROOF OF ANOTHER STRUCTURE WITHIN A DISTANCE OF THIRTY FEET OF THE WALL IN WHICH THE OPENING IS LOCATED SHALL BE AN AUTOMATIC FIREPROOF WINDOW.

SEC. 31. SIZE OF ROOMS.

1. THE PROVISIONS OF THIS SECTION, EXCEPT SUBDIVISION SIX, SHALL APPLY ONLY TO MULTIPLE DWELLINGS ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, AND SHALL APPLY TO ALL SUCH DWELLINGS UNLESS OTHERWISE EXPRESSLY LIMITED.

2. EXCEPT AS IN THIS SECTION AND IN SECTION THIRTY-THREE OTHERWISE EXPRESSLY PROVIDED, ROOMS, EXCEPT KITCHENS, WATER-CLOSET COMPARTMENTS AND BATHROOMS, SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS AS TO SIZE:

A. IN EACH APARTMENT IN A CLASS A MULTIPLE DWELLING THERE SHALL LEAST ONE LIVING ROOM CONTAINING AT LEAST ONE HUNDRED THIRTY-TWO SQUARE FEET OF FLOOR AREA.

B. EVERY LIVING ROOM, EXCEPT AS PROVIDED IN PARAGRAPH E, SHALL CONTAIN AT LEAST EIGHTY SQUARE FEET OF FLOOR SPACE.

C. EVERY ROOM SHALL BE AT LEAST EIGHT FEET HIGH, THE MEASUREMENTS TO BE TAKEN FROM THE FINISHED FLOOR TO THE FINISHED UNDERSIDE OF THE CEILING BEAMS EXCEPT THAT AS MANY AS FOUR BEAMS CROSSING THE CEILING OF BE AT ANYBASEMENT ROOM MAY BE DISREGARDED IF NONE OF THEM EXCEEDS TWELVE INCHES IN WIDTH OR EXTENDS BELOW THE CEILING MORE THAN SIX INCHES.

D. EVERY LIVING ROOM SHALL BE AT LEAST EIGHT FEET IN ITS LEAST HORIZONTAL DIMENSION, EXCEPT AS PROVIDED IN PARAGRAPH E AND EXCEPT THAT ANY NUMBER OF BEDROOMS UP TO ONE-HALF OF THE TOTAL NUMBER IN ANY APARTMENT CONTAINING THREE OR MORE BEDROOMS MAY HAVE A LEAST HORIZONTAL DIMENSION OF SEVEN FEET OR MORE.

E. A ONE-ROOM APARTMENT IN A CLASS B MULTIPLE DWELLING MAY BE AS SMALL AS SIXTY SQUARE FEET IN ITS FLOOR AREA AND SIX FEET IN ITS LEAST DIMENSION.

3. THE REQUIREMENTS OF THIS SECTION WITH RESPECT TO THE LEAST HORIZONTAL DIMENSION AND THE MINIMUM AREA OF ROOMS SHALL NOT BE APPLICABLE TO ANY ROOM IN A FIREPROOF CLASS B MULTIPLE DWELLING OCCUPIED AS A LODGING HOUSE IN WHICH EVERY APARTMENT, OTHER THAN ONE APARTMENT OCCUPIED EXCLUSIVELY BY A PERSON OR PERSONS ENGAGED IN THE MAINTENANCE OR SUPERVISION OF SUCH MULTIPLE DWELLING, CONSISTS OF ONE ROOM AND IN WHICH EVERY SUCH ROOM OPENS DIRECTLY UPON A PUBLIC HALL.

4. DINING BAYS WITH A FLOOR AREA OF FIFTY-FIVE SQUARE FEET OR LESS SHALL NOT BE CONSIDERED AS ROOMS OR ALCOVES AND SHALL NOT BE REQUIRED TO COMPLY WITH THE PROVISIONS OF SECTION THIRTY-TWO. EVERY SUCH DINING BAY SHALL BE EQUIPPED WITH SUCH APPROPRIATE PERMANENT FITTINGS AS MAY BE REQUIRED BY THE DEPARTMENT AND SHALL BE PROVIDED WITH AT LEAST ONE WINDOW OPENING DIRECTLY UPON A STREET OR UPON A LAWFUL YARD, COURT OR SPACE ABOVE A SETBACK. SUCH WINDOW SHALL HAVE AN AREA OF AT LEAST ONE-EIGHTH OF THE FLOOR AREA OF SUCH DINING BAY.

5. A PORTION OF ANY APARTMENT USED AS AN ENTRANCE HALL TO SUCH APARTMENT MAY BE DESIGNATED AS A FOYER. SUCH A FOYER SHALL NOT BE CONSIDERED A ROOM IF THE DEPARTMENT SHALL SO PERMIT AND IF EITHER

A. ITS FLOOR AREA DOES NOT EXCEED TEN PER CENTUM OF THE TOTAL FLOOR AREA OF SUCH APARTMENT, OR

B. EVERY ROOM IN SUCH APARTMENT EXCEEDS IN AREA THE MINIMUM REQUIRED AREA OF SUCH ROOM BY MORE THAN TWENTY PER CENTUM AND THE FLOOR AREA OF SUCH FOYER DOES NOT EXCEED TWENTY PER CENTUM OF THE FLOOR AREA OF SUCHAPARTMENT.

6. A. EXCEPT IN CLASS B DWELLINGS AND DORMITORIES, NO ROOM SHALL BE OCCUPIED FOR SLEEPING PURPOSES BY MORE THAN TWO ADULTS, CONSIDERING CHILDREN OF TWELVE YEARS OF AGE OR MORE AS ADULTS AND TWO CHILDREN BETWEEN THEAGES OF TWO AND ELEVEN YEARS INCLUSIVE AS THE EQUIVALENT OF ONE ADULT. CHILDREN UNDER TWO YEARS OF AGE NEED NOT BE CONSIDERED AS OCCUPANTS. NO ROOM SHALL HAVE SLEEPING ACCOMMODATIONS FOR MORE PERSONS THAN CAN BE ACCOMMODATED IN CONFORMITY WITH THE PROVISIONS OF THIS SUBDIVISION.

B. EVERY ROOM IN EVERY DWELLING, WHENEVER ERECTED, SHALL HAVE AT LEAST FOUR HUNDRED CUBIC FEET OF AIR FOR EACH ADULT, AND TWO HUNDRED CUBIC FEET OF AIR FOR EACH CHILD OCCUPYING SUCH ROOM. EXCEPT IN CLASS B DWELLINGS, DORMITORIES AND EXCEPT AS OTHERWISE PROVIDED IN SUBDIVISION TWO OF SECTION THIRTY-ONE OR IN SECTION THIRTY-FOUR FOR DWELLINGS ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, AND IN SECTIONS ONE HUNDRED SEVENTY-FOUR, TWO HUNDRED FOURTEEN AND TWO HUNDRED SIXTEEN, EVERY LIVING ROOM SHALL (1) CONTAIN SIXTY SQUARE FEET OR MORE OF FLOOR SPACE, (2) BE AT LEAST SIX FEET WIDE AT ITS NARROWEST PART, (3) IF A SLEEPING ROOM, CONTAIN SEVENTY-FIVE SQUARE FEET OR MORE OF FLOOR SPACE AND (4) IF LESS THAN SEVENTY-FIVE SQUARE FEET IN FLOOR AREA, SHALL NOT BE OCCUPIED BY MORE THAN ONE ADULT.

SEC. 32. ALCOVES.

1. EVERY ALCOVE, EXCEPT A LAWFUL COOKING SPACE, OPENING FROM ANY ROOM IN ANY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, SHALL BE SEPARATELY LIGHTED AND VENTILATED AS PROVIDED FOR OTHER ROOMS IN SECTION THIRTY. IT SHALL HAVE A FLOOR AREA OF AT LEAST SEVENTY SQUARE FEET, A LEAST HORIZONTAL DIMENSION OF AT LEAST SEVEN FEET AND AN OPENING AT LEAST SIXTY SQUARE FEET IN AREA INTO THE ROOM WHICH IT ADJOINS.

2. EXCEPT FOR CUBICLES PERMITTED IN LODGING HOUSES, NO PART OF ANY ROOM IN ANY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, SHALL BE ENCLOSED OR SUBDIVIDED AT ANY TIME, WHOLLY OR IN PART, BY A CURTAIN, PORTIERE, FIXED OR MOVABLE PARTITION OR OTHER CONTRIVANCE OR DEVICE, UNLESS EACH SUCH ENCLOSURE OR SUBDIVISION SHALL CONTAIN A SEPARATE WINDOW AS REQUIRED FOR A ROOM BY SECTION THIRTY AND A FLOOR SPACE OF AT LEAST SEVENTY SQUARE FEET.

SEC. 33. COOKING SPACES.

1. EVERY SPACE WHICH IS INTENDED, ARRANGED OR DESIGNED FOR COOKING OR WARMING OF FOOD SHALL BE EITHER A KITCHEN OR KITCHENETTE. THE TERM "KITCHEN" SHALL MEAN SUCH A SPACE FIFTY-NINE SQUARE FEET OR MORE IN FLOOR AREA. THE TERM "KITCHENETTE" SHALL MEAN SUCH A SPACE WHICH IS LESS THAN FIFTY-NINE SQUARE FEET IN FLOOR AREA.

2. EVERY COOKING SPACE SHALL BE DEEMED TO BE IN COMPLIANCE WITH THIS SECTION IF SUCH SPACE WAS ACCEPTED OR APPROVED BY THE DEPARTMENT ON OR BEFORE JULY FIRST, NINETEEN HUNDRED FIFTY-TWO, AND IS MAINTAINED IN ACCORDANCE WITH SUCH ACCEPTANCE OR APPROVAL.

3. EXCEPT AS PROVIDED IN SECTIONS SIXTY-ONE AND SIXTY-SEVEN AND SUBDIVISION TWO OF THIS SECTION, A KITCHEN OR KITCHENETTE SHALL BE UNLAWFUL UNLESS IT IS CONSTRUCTED, ARRANGED AND MAINTAINED IN COMPLIANCE WITH THE FOLLOWING APPLICABLE PROVISIONS:

A. THE CEILING AND WALLS, EXCLUSIVE OF DOORS, OF ALL KITCHENETTES SHALL BE FIRE-RETARDED OR IN LIEU THEREOF SUCH SPACE SHALL BE EQUIPPED WITH ONE OR MORE SPRINKLER HEADS TO FUSE AT A TEMPERATURE NOT HIGHER THAN TWO HUNDRED TWELVE DEGREES FAHRENHEIT. SUCH HEADS SHALL BE CONNECTED TO THE WATER SUPPLY THROUGH A PIPE OF AT LEAST ONE-HALF INCH INSIDE DIAMETER.

B. IN EVERY KITCHEN AND KITCHENETTE, ALL COMBUSTIBLE MATERIAL IMMEDIATELY UNDERNEATH OR WITHIN ONE FOOT OF ANY APPARATUS USED FOR COOKING OR WARMING OF FOOD SHALL BE FIRE-RETARDED OR COVERED WITH ASBESTOS AT LEAST THREE-SIXTEENTHS OF AN INCH IN THICKNESS AND TWENTY-SIX GAUGE METAL OR WITH FIRE-RESISTIVE MATERIAL OF EQUIVALENT RATING, EXCEPT WHERE SUCH APPARATUS IS INSTALLED IN ACCORDANCE WITH REQUIREMENTS ESTABLISHED BY THE DEPARTMENT IN CONFORMITY WITH GENERALLY ACCEPTED SAFETY STANDARDS FOR SUCH APPARATUS. THERE SHALL ALWAYS BE AT LEAST TWO FEET OF CLEAR SPACE ABOVE ANY EXPOSED COOKING SURFACE OF SUCH APPARATUS.

C. EVERY KITCHENETTE CONSTRUCTED AFTER JULY FIRST, NINETEEN HUNDRED FORTY-NINE, SHALL BE PROVIDED WITH A WINDOW OPENING UPON A STREET OR UPON A YARD, COURT, SHAFT, OR UPON ANY SPACE ABOVE A SETBACK. SUCH WINDOW SHALL BE AT LEAST ONE FOOT WIDE, HAVE A TOTAL AREA OF AT LEAST THREE SQUARE FEET AND BE AT LEAST TEN PER CENTUM OF THE SUPERFICIAL FLOOR AREA OF SUCH KITCHENETTE. IN LIEU OF SUCH WINDOW, SUCH KITCHENETTE MAY BE PROVIDED WITH MECHANICAL VENTILATION TO PROVIDE AT LEAST SIX CHANGES PER HOUR OF THE AIR VOLUME OF SUCH KITCHENETTE OR, WHEN SUCH KITCHENETTE IS ON THE TOP STORY, MAY HAVE A SKYLIGHT AT LEAST ONE FOOT WIDE WITH A TOTAL AREA OF AT LEAST FOUR SQUARE FEET OR ONE-EIGHTH OF THE AREA OF THE KITCHENETTE, WHICHEVER IS GREATER, AND SHALL HAVE VENTILATING OPENINGS OF AT LEAST ONE-HALF OF THE AREA OF THE SKYLIGHT.

D. EVERY KITCHENETTE CONSTRUCTED AFTER JULY FIRST, NINETEEN HUNDRED FORTY-NINE, MAY BE EQUIPPED WITH A DOOR OR DOORS, PROVIDED THE LOWER PORTION OF EACH SUCH DOOR HAS A METAL GRILLE CONTAINING AT LEAST FORTY-EIGHT SQUARE INCHES OF CLEAR OPENINGS OR, IN LIEU OF SUCH A GRILLE, THERE ARE TWO CLEAR OPEN SPACES, EACH OF AT LEAST TWENTY-FOUR SQUARE INCHES, ONE BETWEEN THE BOTTOM OF THE DOOR AND THE FLOOR, AND THE OTHER BETWEEN THE TOP OF EACH SUCH DOOR AND THE HEAD JAMB.

E. EVERY KITCHEN AND KITCHENETTE SHALL BE PROVIDED WITH GAS OR ELECTRICITY OR BOTH, AND SHALL BE EQUIPPED FOR ARTIFICIAL LIGHTING.

SEC. 34. ROOMS IN BASEMENTS AND CELLARS.

1. IN ANY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, EVERY ROOM IN A CELLAR OR BASEMENT SHALL HAVE A PERMIT AS PROVIDED IN SUBDIVISION FIVE OF SECTION THREE HUNDRED AND, EXCEPT AS PROVIDED IN SUBDIVISION SIX OF THIS SECTION, SHALL COMPLY WITH THE FOLLOWING CONDITIONS:

A. SUCH ROOMS SHALL BE EVERYWHERE AT LEAST EIGHT FEET HIGH FROM THE FLOOR TO THE CEILING, EXCEPT THAT IN A BASEMENT ROOM AS MANY AS FOUR BEAMS TWELVE INCHES OR LESS IN WIDTH AND EXTENDING SIX INCHES OR LESS BELOW THE CEILING MAY BE DISREGARDED.

B. EXCEPT AS OTHERWISE PROVIDED IN PARAGRAPH F, THE CEILING OF EVERY SUCH ROOM IN THE FRONT PART OF THE DWELLING, OR IN AN APARTMENT OR SUITE EXTENDING TO THE FRONT PART, SHALL BE AT EVERY POINT OF SUCH ROOM AT LEAST FOUR FEET SIX INCHES ABOVE THE CURB LEVEL DIRECTLY IN FRONT OF SUCH POINT ON THE STREET IN FRONT OF THE DWELLING; AND THE CEILING OF EVERY OTHER SUCH ROOM, UNLESS THE YARD OF THE DWELLING IS SIXTY FEET OR MORE IN DEPTH OR EXTENDS TO A STREET ALONG ITS ENTIRE WIDTH, SHALL BE AT EVERY POINT OF SUCH ROOM AT LEAST TWO FEET ABOVE THE CURB LEVEL DIRECTLY IN FRONT OF SUCH POINT ON THE STREET IN FRONT OF THE DWELLING. EVERY YARD OR COURT UPON WHICH ANY SUCH CELLAR OR BASEMENT ROOM OR APARTMENT OPENS SHALL, CONFORM TO THE REQUIREMENTS OF SUBDIVISION EIGHT OF SECTION TWENTY-SIX. EVERY SUCH ROOM, EXCEPT AS OTHERWISE PROVIDED IN PARAGRAPHS E AND F, SHALL BE AN INTEGRAL PART OF AN APARTMENT OR SUITE CONTAINING AT LEAST ONE ROOM WITH A WINDOW OPENING DIRECTLY UPON A STREET OR YARD. EXCEPT AS PROVIDED IN PARAGRAPHS E AND F, AND IF THE YARD OF SUCH A DWELLING IS LESS THAN SIXTY FEET IN DEPTH THERE SHALL BE NOT MORE THAN ONE APARTMENT OR SUITE IN ANY CELLAR THEREIN AND ANY SUCH APARTMENT OR SUITE SHALL CONTAIN NOT MORE THAN FIVE ROOMS, SHALL BE SUPPLIED WITH WATER CLOSET AND BATH ACCOMMODATIONS, AND SHALL NOT OPEN UPON ANY COURT LESS THAN FIVE FEET IN WIDTH. EVERY PART OF SUCH AN APARTMENT OR SUITE SHALL EITHER BE WITHIN TWENTY-FIVE FEET OF THE INNER SURFACE OF THE FRONT OR REAR WALL OF THE DWELLING OR HAVE A WINDOW OPENING UPON A COURT OF AT LEAST THE DIMENSIONS PRESCRIBED IN SECTION TWENTY-SIX BUT NEVER LESS THAN TEN FEET WIDE.

C. EVERY SUCH CELLAR OR BASEMENT ROOM SHALL HAVE ACCESS TO A WATER-CLOSET CONSTRUCTED AND ARRANGED AS PRESCRIBED IN SECTION SEVENTY-SIX.

D. EVERY SUCH ROOM SHALL HAVE A WINDOW OR WINDOWS COMPLYING WITH THE REQUIREMENTS OF SECTION THIRTY. THE AGGREGATE AREA OF WINDOWS IN EACH SUCH ROOM, EXCEPT AS PROVIDED IN PARAGRAPH F, SHALL BE AT LEAST ONE-EIGHTH OF THE HORIZONTAL AREA OF THE ROOM. EACH SUCH WINDOW SHALL BE CONSTRUCTED SO THAT THE UPPER HALF OF ITS AREA CAN BE OPENED, AND SHALL OPEN UPON A STREET, COURT OR YARD. THE UNDERSIDE OF THE TOP STOP-BEAD OF EACH SUCH WINDOW SHALL BE WITHIN TWELVE INCHES OF THE CEILING. ONE WINDOW IN EACH SUCH ROOM SHALL HAVE AN AREA OF AT LEAST TWELVE SQUARE FEET.
E. IN ADDITION TO A JANITOR'S APARTMENT THREE ROOMS OR LESS MAY ALSO BE PROVIDED IN THE CELLAR OF SUCH A DWELLING EXCLUSIVELY FOR THE USE OF PERSONS REGULARLY AND CONTINUOUSLY EMPLOYED IN THE MAINTENANCE OF SUCH DWELLING. EVERY SUCH ROOM SHALL BE COMPLETELY SEPARATED FROM ANY OTHER ROOM OR PRIVATE HALL AND SHALL COMPLY WITH ALL THE PROVISIONS RESPECTING A JANITOR'S APARTMENT EXCEPT THOSE RELATING TO WATER-CLOSET AND BATH, BUT THERE SHALL BE AT LEAST ONE WATER-CLOSET AND BATH ACCESSIBLE FROM EACH SUCH ROOM WITHOUT PASSING THROUGH A JANITOR'S APARTMENT. NO OTHER ROOMS IN SUCH A CELLAR SHALL BE OCCUPIED FOR LIVING OR SLEEPING PURPOSES, EXCEPT AS PERMITTED IN PARAGRAPHS B AND F. WHENEVER A JANITOR'S APARTMENT IN THE CELLAR OF SUCH A DWELLING, OR A ROOM THEREIN, IS EXPRESSLY EXCEPTED FROM A REQUIREMENT IN ANY PROVISION OF THIS CHAPTER, SUCH EXCEPTION SHALL APPLY ALSO TO ANY CELLAR ROOM LAWFULLY OCCUPIED AS IN THIS PARAGRAPH PROVIDED.

F. (1) WHEN THE LOT OF SUCH A DWELLING ABUTS UPON TWO OR MORE STREETS AND THE DIFFERENCE IN LEVEL BETWEEN THE HIGHEST AND THE LOWEST POINTS OF THE CURBS ADJOINING THE LOT IS MORE THAN TEN FEET, A ROOM BELOW THE HIGHEST CURB POINT MAY BE USED FOR LIVING PURPOSES PROVIDED IT OPENS UPON A STREET OR UPON A LAWFUL COURT OR YARD WHICH CONNECTS DIRECTLY WITH A STREET OR, IF THE FLOOR OF SUCH ROOM IS NOT MORE THAN TWELVE FEET BELOW THE HIGHEST CURB POINT, UPON AN INTERIOR COURT WITH A LEAST DIMENSION OF NOT LESS THAN THIRTY FEET IF SUCH COURT IS SITUATED ON A LOT LINE, AND OTHERWISE WITH A LEAST DIMENSION NOT LESS THAN FIFTY FEET. EVERY SUCH ROOM SHALL BE AT LEAST NINE FEET HIGH FROM FINISHED FLOOR TO FINISHED CEILING. WHEN ANY SUCH ROOM OR AN APARTMENT CONTAINING IT FACES A STREET, THE CEILING OF THE ROOM AT EVERY POINT SHALL BE AT LEAST FOUR FEET SIX INCHES ABOVE THE CURB LEVEL OF SUCH STREET DIRECTLY IN FRONT OF SUCH POINT. FOR THE PURPOSE OF DETERMINING THE REQUIRED DIMENSIONS OF A COURT OR YARD OF ANY DWELLING SUBJECT TO THE PROVISIONS OF THIS SUB-PARAGRAPH, THE HEIGHT OF SUCH DWELLING SHALL BE MEASURED FROM THE LOWEST POINT OF SUCH COURT OR YARD.

(2) WHEN THE LOT OF SUCH A MULTIPLE DWELLING DOES NOT RUN THROUGH FROM STREET TO STREET AND THERE IS A DIFFERENCE IN LEVEL EXCEEDING TWENTY FEET BETWEEN THE HIGHEST POINT OF THE CURB IN FRONT OF THE DWELLING AND THE LOWEST POINT OF THE CURB ON A STREET DIRECTLY IN THE REAR OF THE DWELLING WHICH STREET IS WITHIN ONE HUNDRED TWENTY-FIVE FEET OF THE REAR LINE OF THE LOT, A ROOM BELOW THE LEVEL OF THE HIGHEST POINT OF THE CURB IN FRONT OF THE DWELLING MAY BE USED FOR LIVING PURPOSES PROVIDED SUCH ROOM OPENS UPON A YARD OR A COURT ADJOINING A YARD. THE FLOOR OF ANY SUCH ROOM SHALL BE AT LEAST SIX INCHES ABOVE THE LEVEL OF EVERY PART OF EVERY YARD AND COURT UPON WHICH SUCH ROOM OPENS AND OF THE CURB ON THE STREET IN THE REAR OF SUCH DWELLING AND ALSO OF ALL INTERVENING GROUND BETWEEN THE REAR STREET AND THE REAR LOT LINE. EVERY SUCH ROOM SHALL BE AT LEAST NINE FEET HIGH FROM FINISHED FLOOR TO FINISHED CEILING. THE REQUIRED DIMENSIONS OF A YARD, OR OF A COURT ADJOINING A YARD, ON WHICH SUCH A ROOM OPENS IN ANY DWELLING SUBJECT TO THE PROVISIONS OF THIS SUB-PARAGRAPH, SHALL BE DETERMINED BY THE HEIGHT OF SUCH DWELLING MEASURED FROM THE LOWEST POINT OF SUCH YARD OR COURT.

(3) IN ANY PORTION OF A MULTIPLE DWELLING ARRANGED FOR LIVING PURPOSES BELOW THE CURB LEVEL UNDER AUTHORITY OF EITHER OF THE SUB-PARAGRAPHS ABOVE THERE SHALL BE NO WOOD BEAMS, WOOD LINTELS OR OTHER WOOD STRUCTURAL MEMBERS, NOR SHALL ANY WOOD OR OTHER INFLAMMABLE MATERIAL BE USED IN ANY PARTITIONS, FURRINGS OR CEILINGS.

2. EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, WHENEVER THE DEPARTMENT SHALL DEEM IT NECESSARY, SHALL HAVE ALL WALLS BELOW THE GROUND LEVEL AND ALL CELLAR OR LOWER FLOORS DAMP-PROOFED AND WATER-PROOFED. SUCH DAMP-PROOFING AND WATER-PROOFING SHALL RUN THROUGHOUT THE CELLAR OR OTHER LOWEST FLOOR AND THROUGH AND UP THE WALLS AS HIGH AS THE GROUND LEVEL.

3. EVERY CELLAR AND BASEMENT IN EVERY MULTIPLE DWELLING SHALL BE PROPERLY LIGHTED AND VENTILATED TO THE SATISFACTION OF THE DEPARTMENT.
4. IN EVERY MULTIPLE DWELLING THE CELLAR WALLS AND CEILINGS, EXCEPT IN ROOMS OCCUPIED AS PROVIDED IN PARAGRAPH F OF SUBDIVISION ONE OR IN SUBDIVISION SIX, SHALL EITHER BE CONSTRUCTED OF LIGHT-COLORED MATERIAL OR BE THOROUGHLY WHITEWASHED OR PAINTED A LIGHT COLOR BY THE OWNER, AND SHALL BE SO MAINTAINED. SUCH WHITEWASH OR PAINT SHALL BE RENEWED WHENEVER NECESSARY, AS MAY BE DETERMINED AND REQUIRED BY THE DEPARTMENT.

5. NOTWITHSTANDING ANY PROVISIONS OF THIS SECTION OR OF SUBDIVISION FIVE OF SECTION THREE HUNDRED, AN APARTMENT OR ROOM IN A CELLAR WHICH WAS OCCUPIED FOR LIVING PURPOSES AT ANY TIME ON OR AFTER OCTOBER FIRST, NINETEEN HUNDRED FIFTY-TWO MAY THEREAFTER CONTINUE TO BE OCCUPIED FOR SUCH PURPOSES UNTIL JULY FIRST, NINETEEN HUNDRED SIXTY-SEVEN, IN ACCORDANCE WITH THE CONDITIONS IMPOSED BY SUBDIVISION FIVE OF SECTION TWO HUNDRED SIXTEEN.

6. AN APARTMENT IN A CELLAR OR BASEMENT OF ANY MULTIPLE DWELLING MAY BE USED FOR LIVING PURPOSES PROVIDED ALL OF THE FOLLOWING CONDITIONS ARE COMPLIED WITH:

A. SUCH APARTMENT HAS AT LEAST ONE HALF OF ITS HEIGHT AND ALL OF ITS WINDOW SURFACES ABOVE EVERY PART OF AN "ADEQUATE ADJACENT SPACE." SUCH "ADEQUATE ADJACENT SPACE" SHALL BE OPEN TO THE SKY, SHALL BE PROPERLY DRAINED TO THE SATISFACTION OF THE DEPARTMENT, AND SHALL BE A CONTINUOUS SURFACE AREA OUTSIDE THE DWELLING NOT LESS THAN THIRTY FEET IN ITS LEAST DIMENSION AND ABUTTING AT SAME LEVEL, OR DIRECTLY BELOW, EVERY PART OF THE EXTERIOR WALLS OF SUCH APARTMENT AND OF EVERY OTHER APARTMENT ON THE SAME FLOOR. SUCH "ADEQUATE ADJACENT SPACE" SHALL INCLUDE ONLY SPACE WHICH IS LOCATED ON THE SAME LOT OR PLOT AS THE DWELLING OR ON A STREET OR PUBLIC PLACE OR SPACE.

B. EVERY LIVING ROOM OF SUCH APARTMENT IS EVERYWHERE AT LEAST EIGHT FEET HIGH FROM THE FLOOR TO THE CEILING IN DWELLINGS ERECTED AFTER JULY FIRST, NINETEEN HUNDRED FIFTY-SEVEN, AND SEVEN FEET IN DWELLINGS ERECTED PRIOR THERETO.
C. ALL PARTS OF THE EXTERIOR WALLS OF THE DWELLING WHICH ARE BELOW GROUND LEVEL AND ON THE SAME FLOOR AS SUCH APARTMENT OR ABOVE SUCH FLOOR ARE DAMPPROOF TO THE SATISFACTION OF THE DEPARTMENT AND THE FLOOR OF SUCH APARTMENT IS DAMPPROOF AND WATERPROOF.

D. THE YARD AND EVERY COURT OF THE DWELLING CONTAINING SUCH APARTMENT ARE ADEQUATELY DRAINED TO THE SATISFACTION OF THE DEPARTMENT.

E. IF ANY PART OF THE APARTMENT IS BELOW THE "ADEQUATE ADJACENT SPACE" REFERRED TO IN PARAGRAPH A OF THIS SUBDIVISION, ALL CEILINGS, WALLS AND PARTITIONS OF SUCH APARTMENT ARE FIRE-RETARDED OR THE ROOMS AND SPACES WITHIN SUCH APARTMENT ARE PROTECTED BY A SPRINKLER SYSTEM TO THE SATISFACTION OF THE DEPARTMENT.

F. SUCH APARTMENT AND EVERY PART OF THE FLOOR ON WHICH IT IS SITUATED MEET ALL OF THE REQUIREMENTS WHICH WOULD BE IN EFFECT FOR SUCH FLOOR IF NONE OF THE ROOMS THEREON WERE USED FOR LIVING PURPOSES.

G. SUCH APARTMENT COMPLIES WITH ALL OF THE REQUIREMENTS FOR APARTMENTS IN THE SAME DWELLING WHICH ARE NOT IN A CELLAR OR BASEMENT.

H. THE FLOOR ON WHICH SUCH APARTMENT IS SITUATED, IF A CELLAR, SHALL NEVERTHELESS BE COUNTED AS A STORY FOR THE PURPOSE OF ALL REQUIREMENTS EXCEPT THOSE RELATING TO THE HEIGHT OF THE DWELLING.

SEC. 35. ENTRANCE DOORS AND LIGHTS.

IN EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, EVERY DOOR GIVING ACCESS TO AN ENTRANCE HALL FROM OUTSIDE THE DWELLING SHALL CONTAIN AT LEAST FIVE SQUARE FEET OF GLAZED SURFACE. THE WIDTH OF EVERY SUCH DOOR SHALL BE AT LEAST SEVENTY-FIVE PER CENTUM OF THE REQUIRED CLEAR WIDTH OF SUCH ENTRANCE HALL AS PROVIDED IN SECTION FIFTY, EXCEPT THAT WHEN A SERIES OF SUCH ENTRANCE DOORS IS PROVIDED THEIR AGGREGATE CLEAR WIDTH SHALL NOT BE LESS THAN SEVENTY-FIVE PER CENTUM OF THE REQUIRED WIDTH OF THE ENTRANCE HALL AND THE CLEAR WIDTH OF EACH OF THE DOORS SEPARATELY SHALL BE AT LEAST TWO FEET SIX INCHES. SUCH A DOOR OPENING UPON A STREET OR A COURT EXTENDING TO A STREET MAY BE OF WOOD. SUCH A DOOR OPENING UPON A YARD OR UPON A COURT NOT EXTENDING TO A STREET SHALL BE FIREPROOF. THE OWNER OF EVERY MULTIPLE DWELLING SHALL INSTALL AND MAINTAIN A LIGHT OR LIGHTS AT OR NEAR THE OUTSIDE OF THE FRONT ENTRANCE-WAY OF THE BUILDING WHICH SHALL IN THE AGGREGATE PROVIDE NOT LESS THAN FIFTY WATTS INCANDESCENT ILLUMINATION FOR A BUILDING WITH A FRONTAGE UP TO TWENTY-TWO FEET AND ONE HUNDRED WATTS INCANDESCENT ILLUMINATION FOR A BUILDING WITH A FRONTAGE IN EXCESS OF TWENTY-TWO FEET, OR EQUIVALENT ILLUMINATION AND SHALL BE KEPT BURNING FROM SUNSET EVERY DAY TO SUNRISE ON THE DAY FOLLOWING. IN THE CASE OF A MULTIPLE DWELLING WITH A FRONTAGE IN EXCESS OF TWENTY-TWO FEET, THE FRONT ENTRANCE DOORS OF WHICH HAVE A COMBINED WIDTH IN EXCESS OF FIVE FEET, THERE SHALL BE AT LEAST TWO LIGHTS, ONE AT EACH SIDE OF THE ENTRANCE WAY, WITH AN AGGREGATE ILLUMINATION OF ONE HUNDRED FIFTY WATTS OR EQUIVALENT ILLUMINATION. IN ENFORCING THIS PROVISION THE DEPARTMENT SHALL PERMIT OWNERS TO DETERMINE FOR THEMSELVES THE ACTUAL LOCATION, DESIGN AND NATURE OF THE INSTALLATION OF SUCH LIGHT OR LIGHTS TO MEET PRACTICAL, AESTHETIC AND OTHER CONSIDERATIONS, SO LONG AS THE MINIMUM LEVEL OF ILLUMINATION IS MAINTAINED.

SEC. 36. WINDOWS AND SKYLIGHTS FOR PUBLIC HALLS AND STAIRS.

1. IN EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, ONE AT LEAST OF THE REQUIRED WINDOWS PROVIDED TO LIGHT EACH PUBLIC HALL OR PART THEREOF SHALL BE AT LEAST TWO FEET SIX INCHES WIDE AND FIVE FEET HIGH. EVERY REQUIRED WINDOW IN SUCH A HALL SHALL OPEN UPON A STREET, COURT, YARD OR SPACE ABOVE A SETBACK. ON THE TOP STORY OF SUCH A DWELLING A VENTILATING SKYLIGHT OF THE SAME DIMENSIONS SHALL BE ACCEPTED IN LIEU OF A WINDOW FOR THAT STORY.

2. IN EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, THERE SHALL BE IN THE ROOF, DIRECTLY OVER EACH REQUIRED STAIR, FIRE-STAIR AND FIRE-TOWER, A VENTILATING SKYLIGHT PROVIDED WITH VENTILATORS HAVING A MINIMUM OPENING OF FORTY SQUARE INCHES OR WITH FIXED OR MOVABLE LOUVRES. THE ROOF OF EVERY SUCH SKYLIGHT SHALL BE GLAZED WITH PLAIN GLASS AND EQUIPPED WITH SUITABLE WIRE SCREENS ABOVE AND BELOW. THE GLAZED AREA OF EVERY SUCH SKYLIGHT SHALL BE AT LEAST TWENTY SQUARE FEET, EXCEPT THAT IN A CLASS A DWELLING OR SECTION THEREOF TWO STORIES OR LESS IN HEIGHT AND OCCUPIED BY NOT MORE THAN TWO FAMILIES ON EACH STORY AND IN DWELLINGS THREE STORIES IN HEIGHT ERECTED PURSUANT TO PLANS FILED WITH THE DEPARTMENT ON OR AFTER MAY FIRST, NINETEEN HUNDRED FIFTY-NINE AND OCCUPIED BY NOT MORE THAN ONE FAMILY ON EACH STORY, THE GLAZED AREA OF SUCH A SKYLIGHT NEED BE ONLY NINE SQUARE FEET. IN LIEU OF A SKYLIGHT A WINDOW OF THE SAME AREA AS PRESCRIBED IN SUBDIVISION ONE MAY BE PROVIDED. IF SUCH A WINDOW IS USED IN LIEU OF A SKYLIGHT, FIXED LOUVRES HAVING A MINIMUM OPENING OF FORTY SQUARE INCHES SHALL ALSO BE INSTALLED IN OR DIRECTLY ADJACENT TO SUCH WINDOW.

3. WHEN ANY STAIR, FIRE-STAIR OR FIRE-TOWER IN SUCH A DWELLING TERMINATES AT THE LEVEL OF A SETBACK OF AN OUTER WALL AND SUCH SETBACK CONSISTS OF A TERRACE AT LEAST FOUR FEET IN WIDTH, MEASURED BETWEEN THE INSIDE OF THE PARAPET WALL AND THE WALL OF THE BUILDING, AND AT LEAST TEN FEET IN LENGTH, MEASURED PARALLEL TO THE WALL OF THE BUILDING, THERE MAY BE PROVIDED IN LIEU OF SUCH A SKYLIGHT A FIRE-PROOF DOOR AND ASSEMBLY WITH THE DOOR SELF-CLOSING GIVING ACCESS FROM SUCH STAIR, FIRE-STAIR OR FIRE-TOWER TO SUCH TERRACE. SUCH DOOR SHALL HAVE A PANEL AT LEAST FIVE SQUARE FEET IN AREA GLAZED WITH WIRE GLASS AND SHALL BE EQUIPPED WITH FIXED OR MOVABLE LOUVRES WITH AN OPENING OF AT LEAST FORTY SQUARE INCHES.

SEC. 37. ARTIFICIAL HALL LIGHTING.

1. IN EVERY MULTIPLE DWELLING THE OWNER SHALL PROVIDE A LIGHT OR LIGHTS, EACH OF AT LEAST SIXTY WATTS INCANDESCENT OR TWENTY WATTS COOL WHITE FLUORESCENT OR EQUIVALENT ILLUMINATION, FOR EVERY VESTIBULE AND ENTRANCE HALL IN EVERY PUBLIC HALL, STAIR, FIRE-STAIR AND FIRE-TOWER ON EVERY FLOOR. SAID LIGHT OR LIGHTS SHALL BE LOCATED AS PRESCRIBED BY THE DEPARTMENT, BUT, IN EVERY STAIR, FIRE-STAIR OR FIRE-TOWER, SHALL BE SO LOCATED THAT EVERY PART THEREOF SHALL BE LIGHTED.

2. EXCEPT AS PROVIDED IN SUBDIVISION THREE, EVERY SUCH LIGHT SHALL BE TURNED ON BY THE OWNER AT SUNSET EVERY DAY AND SHALL NOT BE TURNED OFF BY THE OWNER UNTIL THE FOLLOWING SUNRISE. EVERY SUCH LIGHT SHALL BE KEPT BURNING DAILY FROM SUNSET UNTIL SUNRISE, BUT IF IT BECOMES EXTINGUISHED AND REMAINS SO WITHOUT THE KNOWLEDGE OR CONSENT OF THE OWNER HE SHALL NOT BE LIABLE. THE BURDEN SHALL BE UPON THE OWNER TO SHOW THAT THE LIGHT BECAME AND REMAINED EXTINGUISHED WITHOUT HIS KNOWLEDGE OR CONSENT.

3. EVERY LIGHT IN EVERY FIRE-STAIR AND FIRE-TOWER AT EVERY STORY, AND IN EVERY STAIR AND PUBLIC HALL AT EVERY STORY WHERE THERE IS NO WINDOW OPENING TO THE OUTER AIR, SHALL BE KEPT BURNING CONTINUOUSLY EXCEPT THAT THIS PROVISION SHALL NOT APPLY TO PUBLIC HALLS LIGHTED AS PROVIDED IN SUBDIVISION ELEVEN OF SECTION TWO HUNDRED SEVENTEEN.

4. WHEN THE NATURAL LIGHT IN ANY PUBLIC HALL IN A MULTIPLE DWELLING IS NOT SUFFICIENT TO PERMIT A PERSON TO READ THE NAMES ON A MAIL BOX OR OTHER RECEPTACLE FOR MAIL, THE OWNER SHALL INSTALL A LIGHTING FIXTURE DIRECTLY OVER SUCH MAIL BOX OR RECEPTACLE AND MAINTAIN IT IN SERVICEABLE CONDITION, SO THAT A LIGHT MAY BE TURNED ON AT ANY TIME FOR THE CONVENIENCE OF TENANTS OR THE MAIL CARRIER.

TITLE 2
FIRE PROTECTION AND SAFETY

SEC. 50. ENTRANCE HALLS.
EVERY ENTRANCE HALL IN EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, SHALL BE AT LEAST FOUR FEET IN CLEAR WIDTH FROM THE ENTRANCE TO THE FIRST STAIR, AND BEYOND THAT SHALL BE AT LEAST THREE FEET EIGHT INCHES IN CLEAR WIDTH. IF SUCH AN ENTRANCE HALL IS THE ONLY ENTRANCE TO MORE THAN ONE FLIGHT OF STAIRS, THE REQUIRED WIDTH OF SUCH HALL SHALL BE INCREASED IN EVERY PART, FOR EACH SUCH ADDITIONAL FLIGHT OF STAIRS, BY ONE-HALF THE WIDTH REQUIRED FOR ONE FLIGHT OF STAIRS.

SEC. 50-A. ENTRANCES: DOORS, LOCKS AND INTERCOMMUNICATION SYSTEMS.

1. EVERY ENTRANCE FROM THE STREET, PASSAGEWAY, COURT, YARD, CELLAR, OR SIMILAR ENTRANCE TO A CLASS
A MULTIPLE DWELLING ERECTED OR CONVERTED AFTER JANUARY FIRST, NINETEEN HUNDRED SIXTY-EIGHT, EXCEPT AN ENTRANCE LEADING TO THE MAIN ENTRANCE HALL OR LOBBY WHICH MAIN ENTRANCE HALL OR LOBBY IS EQUIPPED WITH ONE OR MORE AUTOMATIC SELF-LOCKING DOORS, SHALL BE EQUIPPED WITH AUTOMATIC SELF-CLOSING AND SELF-LOCKING DOORS AND SUCH DOORS SHALL BE LOCKED AT ALL TIMES EXCEPT WHEN AN ATTENDANT SHALL ACTUALLY BE ON DUTY. EVERY ENTRANCE FROM THE ROOF TO SUCH A DWELLING SHALL BE EQUIPPED WITH A SELF-CLOSING DOOR WHICH SHALL NOT BE SELF-LOCKING AND WHICH SHALL BE FASTENED ON THE INSIDE WITH MOVABLE BOLTS, HOOKS OR A LOCK WHICH DOES NOT REQUIRE A KEY TO OPEN FROM INSIDE THE DWELLING.

2. EVERY CLASS A MULTIPLE DWELLING ERECTED OR CONVERTED AFTER JANUARY FIRST, NINETEEN HUNDRED SIXTY-EIGHT CONTAINING EIGHT OR MORE APARTMENTS SHALL ALSO BE EQUIPPED WITH AN INTERCOMMUNICATION SYSTEM. SUCH INTERCOMMUNICATION SYSTEM SHALL BE LOCATED AT AN AUTOMATIC SELF-LOCKING DOOR GIVING PUBLIC ACCESS TO THE MAIN ENTRANCE HALL OR LOBBY OF SAID MULTIPLE DWELLING AND SHALL CONSIST OF A DEVICE OR DEVICES FOR VOICE COMMUNICATION BETWEEN THE OCCUPANT OF EACH APARTMENT AND A PERSON OUTSIDE SAID DOOR TO THE MAIN ENTRANCE HALL OR LOBBY AND TO PERMIT SUCH APARTMENT OCCUPANT TO RELEASE THE LOCKING MECHANISM OF SAID DOOR FROM THE APARTMENT.

3. ON OR AFTER JANUARY FIRST, NINETEEN HUNDRED SIXTY-NINE, EVERY CLASS A MULTIPLE DWELLING ERECTED OR CONVERTED PRIOR TO JANUARY FIRST, NINETEEN HUNDRED SIXTY-EIGHT, SHALL BE EQUIPPED WITH AUTOMATIC SELF-CLOSING AND SELF-LOCKING DOORS, WHICH DOORS SHALL BE KEPT LOCKED EXCEPT WHEN AN ATTENDANT SHALL ACTUALLY BE ON DUTY, AND WITH THE INTERCOMMUNICATION SYSTEM DESCRIBED IN PARAGRAPH TWO OF THIS SECTION, PROVIDED THAT TENANTS OCCUPYING A MAJORITY OF ALL THE APARTMENTS WITHIN THE STRUCTURE COMPRISING THE MULTIPLE DWELLING AFFECTED REQUEST OR CONSENT IN WRITING TO THE INSTALLATION OF SUCH DOORS AND INTERCOMMUNICATION SYSTEM ON FORMS WHICH SHALL BE PRESCRIBED BY THE DEPARTMENT, EXCEPT THAT IN THE EVENT A MAJORITY OF TENANTS IN OCCUPANCY REQUEST OR CONSENT ON OR AFTER JANUARY FIRST, NINETEEN HUNDRED SIXTY-EIGHT, TO THE INSTALLATION OF SUCH DOORS OR INTERCOMMUNICATION SYSTEM SUCH INSTALLATION SHALL BE STARTED WITHIN NINETY DAYS, BUT NEED NOT BE COMPLETED UNTIL SIX MONTHS AFTER THE OWNER'S RECEIPT OF REQUESTS OR CONSENTS BY A MAJORITY OF THE TENANTS, EXCEPT THAT IN ANY SUCH MULTIPLE DWELLING OWNED OR OPERATED BY A MUNICIPAL HOUSING AUTHORITY ORGANIZED PURSUANT TO ARTICLE THIRTEEN OF THE PUBLIC HOUSING LAW, SUCH INSTALLATION NEED NOT BE COMPLETED UNTIL ONE YEAR AFTER THE OWNER'S RECEIPT OF REQUESTS OR CONSENTS BY A MAJORITY OF THE TENANTS. IF THE DWELLING IS SUBJECT TO REGULATION AND CONTROL OF ITS RESIDENTIAL RENTS PURSUANT TO THE LOCAL EMERGENCY HOUSING RENT CONTROL ACT, THE LOCAL CITY HOUSING RENT AGENCY SHALL UPON THE FILING OF EXECUTED FORMS CONTAINING THE REQUIRED REQUESTS OR CONSENTS, PRESCRIBE THE TERMS UNDER WHICH THE COSTS OF PROVIDING SUCH DOORS AND INTERCOMMUNICATION SYSTEMS MAY BE RECOVERED BY THE OWNER FROM THE TENANTS. IN ANY MULTIPLE DWELLING BUILT PURSUANT TO THE PROVISIONS OF THE REDEVELOPMENT COMPANIES LAW IN WHICH RESIDENTIAL RENTS ARE LIMITED BY CONTRACT, THE COSTS OF PROVIDING SUCH DOORS AND INTERCOMMUNICATION SYSTEMS MAY BE RECOVERED BY THE OWNER FROM THE TENANTS. THE TERMS UNDER WHICH SUCH COSTS MAY BE RECOVERED SHALL BE THE SAME AS THOSE PRESCRIBED BY THE LOCAL CITY HOUSING RENT AGENCY IN THE CITY IN WHICH THE MULTIPLE DWELLING IS LOCATED FOR DWELLINGS SUBJECT TO REGULATION AND CONTROL OF RENT PURSUANT TO THE LOCAL EMERGENCY HOUSING RENT CONTROL ACT. SUCH COSTS SHALL NOT BE DEEMED TO BE "RENT" AS THAT TERM IS LIMITED AND DEFINED IN THE CONTRACT.

4. ALL SUCH SELF-CLOSING AND SELF-LOCKING DOORS, AND INTERCOMMUNICATION SYSTEMS SHALL BE OF A TYPE APPROVED BY THE DEPARTMENT AND BY SUCH OTHER DEPARTMENT AS MAY BE PRESCRIBED BY LAW AND SHALL BE INSTALLED AND MAINTAINED IN A MANNER PRESCRIBED BY THE DEPARTMENT AND BY SUCH OTHER DEPARTMENT.

5. EVERY OWNER WHO SHALL FAIL TO INSTALL AND MAINTAIN THE EQUIPMENT REQUIRED BY THIS SECTION, IN THE MANNER PRESCRIBED BY THE DEPARTMENT, AND BY SUCH OTHER DEPARTMENT AS MAY BE PRESCRIBED BY LAW, AND ANY PERSON WHO SHALL WILLFULLY DESTROY, DAMAGE, OR JAM OR OTHERWISE INTERFERE WITH THE PROPER OPERATION OF, OR REMOVE, WITHOUT JUSTIFICATION, SUCH EQUIPMENT OR ANY PART THEREOF SHALL BE GUILTY OF A MISDEMEANOR AS PROVIDED IN SUBDIVISION ONE OF SECTION THREE HUNDRED FOUR OF THE MULTIPLE DWELLING LAW AND SHALL BE PUNISHABLE AS PROVIDED THEREIN.

SEC. 50-C. RIGHTS OF TENANTS TO OPERATE AND MAINTAIN A LOBBY ATTENDANT SERVICE.

1. TENANTS OF EVERY CLASS A MULTIPLE DWELLING CONTAINING EIGHT OR MORE APARTMENTS SHALL BE ENTITLED TO MAINTAIN AND OPERATE A LOBBY ATTENDANT SERVICE FOR SUCH MULTIPLE DWELLING AT ANY TIME OR TIMES WHEN AN ATTENDANT HIRED OR FURNISHED BY THE OWNER THEREOF SHALL NOT BE ON DUTY. SUCH LOBBY ATTENDANTS SO MAINTAINED BY SUCH TENANTS SHALL BE ENGAGED SOLELY FOR SECURITY PURPOSES AND SHALL PERFORM NO ACTS OR DUTIES OTHER THAN THOSE WHICH SHALL BE DIRECTLY RELATED TO THE SAFETY AND SECURITY OF OCCUPANTS AND VISITORS TO SUCH BUILDING WHILE IN AND ABOUT THE PUBLIC PORTIONS THEREOF AND NO OWNER SHALL UNREASONABLY HINDER, INTERFERE WITH, OBSTRUCT OR PROHIBIT THE MAINTENANCE AND OPERATION OF SUCH SERVICE, PROVIDED THAT EACH ATTENDANT SO ENGAGED BY TENANTS SHALL AT ALL TIMES WHEN ON DUTY BE STATIONED AT AND REMAIN IN THE ENTRANCE HALLS OR PUBLIC LOBBIES OF THE BUILDING ADJACENT TO THE MAIN ENTRANCE THERETO, AND PROVIDED FURTHER THAT NO OWNER OF SUCH BUILDING SHALL BE IN ANY MANNER LIABLE OR RESPONSIBLE FOR ANY INJURY TO ANY SUCH ATTENDANT OR FOR ANY DAMAGE OR INJURY ARISING OUT OF OR RESULTING FROM ANY ACT OR OMISSION OF ANY SUCH ATTENDANT OR FOR THE PAYMENT OF ANY WAGES OR OTHER COMPENSATION TO SUCH ATTENDANTS. THE LOBBY ATTENDANTS FURNISHED, OPERATED OR MAINTAINED BY TENANTS PURSUANT TO THIS SECTION MAY CONSIST OF OR INCLUDE TENANTS OR OTHER OCCUPANTS OF THE MULTIPLE DWELLING AND MAY INCLUDE EITHER VOLUNTEER OR PAID PERSONNEL OR A COMBINATION THEREOF.

2. ANY AGENT, OWNER OR OTHER PERSON WHO SHALL UNREASONABLY INTERFERE, HINDER, OBSTRUCT OR PROHIBIT THE INSTALLATION, MAINTENANCE AND OPERATION OF ANY SUCH LOBBY ATTENDANT OR SHALL UNREASONABLY HINDER OR INTERFERE WITH THE PERFORMANCE OF THE DUTIES OF SUCH LOBBY ATTENDANT ENGAGED PURSUANT TO THIS SECTION, SHALL BE GUILTY OF A VIOLATION WITH A MAXIMUM FINE NOT TO EXCEED FIFTY DOLLARS.

SEC. 51. SHAFTS, ELEVATORS AND DUMBWAITERS.

1. EVERY SHAFT CONSTRUCTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, IN ANY MULTIPLE DWELLING SHALL BE ENCLOSED ON ALL SIDES WITH FIREPROOF WALLS AND SHALL HAVE FIREPROOF DOORS AND ASSEMBLIES AT ALL OPENINGS, WITH THE DOORS SELF-CLOSING. DUMBWAITER SHAFTS, EXCEPT THOSE ADJOINING PUBLIC HALLS, MAY BE CONSTRUCTED WITH WALLS OF GYPSUM PLASTER BLOCKS APPROVED BY THE DEPARTMENT, AT LEAST TWO INCHES THICK IF SOLID AND AT LEAST THREE INCHES THICK IF HOLLOW.

2. ALL DUMBWAITER DOORS CONSTRUCTED AFTER SUCH DATE SHALL BE FASTENED BY AN INTERIOR LOCK IN THE SHAFT OPERATED AND CONTROLLED FROM A CENTRAL POINT IN THE CELLAR OR LOWEST STORY IF THERE BE NO CELLAR.

3. THE DOORS OF EVERY ELEVATOR SHAFT CONSTRUCTED AFTER SUCH DATE SHALL BE PROVIDED WITH AN AUTOMATIC DEVICE APPROVED BY THE DEPARTMENT TO PREVENT THE NORMAL OPERATION OF THE ELEVATOR UNLESS THE HOISTWAY DOOR AT WHICH THE CAR IS STANDING IS CLOSED AND LOCKED, OR UNLESS ALL HOISTWAY DOORS ARE LOCKED IN A CLOSED POSITION. SUCH DOORS MAY HAVE A VISION PANEL OF WIRE GLASS NOT EXCEEDING ONE SQUARE FOOT IN AREA.

4. EVERY ELEVATOR INSTALLED AFTER SUCH DATE SHALL BE EQUIPPED WITH A GATE WITH AN AUTOMATIC DEVICE APPROVED BY THE DEPARTMENT TO PREVENT THE NORMAL OPERATION OF SUCH ELEVATOR UNLESS SUCH GATE IS CLOSED.

5. WHEN ANY ELEVATOR OR DUMBWAITER CONSTRUCTED AFTER SUCH DATE OPENS INTO MORE THAN ONE STAIR, ELEVATOR VESTIBULE OR OTHER PUBLIC HALL ON ANY FLOOR, SUCH ELEVATOR OR DUMBWAITER SHALL BE PLACED IN A SEPARATE SHAFT. NOT MORE THAN THREE ELEVATORS OR TWO DUMBWAITERS SHALL EVER BE PLACED IN THE SAME SHAFT.

6. EVERY DWELLING ERECTED AFTER SUCH DATE WHICH EXCEEDS SIX STORIES OR SIXTY FEET IN HEIGHT SHALL BE EQUIPPED WITH ONE OR MORE PASSENGER ELEVATORS, OPERATIVE AT ALL TIMES, AT LEAST ONE OF WHICH SHALL BE ACCESSIBLE TO EVERY APARTMENT ABOVE THE ENTRANCE STORY.

7. IN EVERY MULTIPLE DWELLING, ELEVATOR SHAFTS, NOT PREVIOUSLY ENCLOSED TO THE SATISFACTION OF THE DEPARTMENT, SHALL BE ENCLOSED WITH FIREPROOF WALLS AND SHALL HAVE FIREPROOF DOORS AND ASSEMBLIES, WITH THE DOORS SELF-CLOSING.

SEC. 51-A. PEEPHOLES.

IN EVERY MULTIPLE DWELLING THE OWNER SHALL PROVIDE AND MAINTAIN A PEEPHOLE IN THE ENTRANCE DOOR OF EACH HOUSING UNIT. SUCH PEEPHOLE SHALL BE LOCATED, AS PRESCRIBED BY THE DEPARTMENT, BUT SHALL BE SO LOCATED AS TO ENABLE A PERSON IN SUCH HOUSING UNIT TO VIEW FROM THE INSIDE OF THE ENTRANCE DOOR ANY PERSON IMMEDIATELY OUTSIDE OF THE ENTRANCE DOOR TO SUCH HOUSING UNIT. THE PROVISIONS OF THIS SECTION SHALL NOT APPLY TO HOTELS OR APARTMENT HOTELS OR TO COLLEGE OR SCHOOL DORMITORIES.

SEC. 51-B. MIRRORS IN CONNECTION WITH SELF-SERVICE ELEVATORS.

IN ALL MULTIPLE DWELLINGS IN WHICH THERE ARE ONE OR MORE SELF-SERVICE PASSENGER ELEVATORS, THERE SHALL, PURSUANT TO SUCH REGULATIONS AS THE DEPARTMENT SHALL PRESCRIBE, BE AFFIXED AND MAINTAINED IN EACH SUCH ELEVATOR A MIRROR WHICH WILL ENABLE PERSONS PRIOR TO ENTERING INTO SUCH ELEVATOR TO VIEW THE INSIDE THEREOF TO DETERMINE WHETHER ANY PERSON IS IN SUCH ELEVATOR.
SEC. 51-C. RIGHTS OF TENANTS TO INSTALL AND MAINTAIN LOCKS IN CERTAIN ENTRANCE DOORS.
EVERY TENANT OF A MULTIPLE DWELLING, EXCEPT A TENANT OF A MULTIPLE DWELLING UNDER THE SUPERVISION AND CONTROL OF A MUNICIPAL HOUSING AUTHORITY, OCCUPIED BY HIM, EXCEPT AS A HOTEL OR MOTEL, OR COLLEGE OR SCHOOL DORMITORY, SHALL HAVE THE RIGHT TO INSTALL AND MAINTAIN OR CAUSE TO BE INSTALLED AND MAINTAINED IN THE ENTRANCE DOOR OF HIS PARTICULAR HOUSING UNIT IN SUCH MULTIPLE DWELLING, A LOCK, SEPARATE AND APART FROM ANY LOCK INSTALLED AND MAINTAINED BY THE OWNER OF SUCH MULTIPLE DWELLING, NOT MORE THAN THREE INCHES IN CIRCUMFERENCE, AS AN ORDINARY INCIDENT TO HIS TENANCY, PROVIDED THAT A DUPLICATE KEY TO SUCH LOCK SHALL BE SUPPLIED TO THE LANDLORD OR HIS AGENT UPON HIS REQUEST; AND EVERY PROVISION OF ANY LEASE HEREAFTER MADE OR ENTERED INTO WHICH RESERVES OR PROVIDES FOR THE PAYMENT BY SUCH TENANT OF ANY ADDITIONAL RENT, BONUS, FEE OR OTHER CHARGE OR ANY OTHER THING OF VALUE FOR THE RIGHT OR PRIVILEGE OF INSTALLING AND/OR MAINTAINING ANY SUCH LOCK, SHALL BE DEEMED TO BE VOID AS AGAINST PUBLIC POLICY AND WHOLLY UNENFORCEABLE.

SEC. 52. STAIRS.

1. IN EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, EVERY INTERIOR STAIR, FIRE-STAIR AND FIRE-TOWER AND EVERY EXTERIOR STAIR IN CONNECTION WITH ANY DWELLING ALTERED OR ERECTED AFTER JANUARY FIRST, NINETEEN HUNDRED FIFTY-ONE, SHALL BE PROVIDED WITH PROPER BALUSTRADES OR RAILINGS AND ALL SUCH INTERIOR AND EXTERIOR STAIRS SHALL BE KEPT IN GOOD REPAIR AND FREE FROM ANY ENCUMBRANCE. EVERY SUCH STAIR, FIRE-STAIR AND FIRE-TOWER MORE THAN THREE FEET EIGHT INCHES WIDE SHALL BE PROVIDED WITH A HANDRAIL ON EACH SIDE.

2. THE UPPER SURFACE OF EVERY BALUSTRADE OR RAILING PLACED IN ANY STAIR AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, SHALL BE AT LEAST TWO FEET SIX INCHES AND AT MOST TWO FEET EIGHT INCHES ABOVE THE FRONT EDGE OF THE STAIR TREADS, AND AT ANY STAIR LANDING SHALL BE AT LEAST TWO FEET EIGHT INCHES AND AT MOST THREE FEET ABOVE THE LEVEL OF SUCH LANDING.

3. THE TREADS AND RISERS OF EVERY STAIR, FIRE-STAIR AND FIRE-TOWER CONSTRUCTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, IN ANY MULTIPLE DWELLING SHALL BE OF UNIFORM HEIGHT AND WIDTH IN ANY ONE FLIGHT. EACH TREAD, EXCLUSIVE OF NOSING, SHALL BE NOT LESS THAN NINE AND ONE-HALF INCHES WIDE; EACH RISER SHALL NOT EXCEED SEVEN AND THREE-QUARTERS INCHES IN HEIGHT; AND THE PRODUCT OF THE NUMBER OF INCHES IN THE WIDTH OF THE TREAD AND THE NUMBER OF INCHES IN THE HEIGHT OF THE RISER SHALL BE AT LEAST SEVENTY AND AT MOST SEVENTY-FIVE.
4. NO WINDING STAIRS SHALL BE CONSTRUCTED IN ANY MULTIPLE DWELLING.

5. A. EXCEPT AS OTHERWISE PROVIDED IN PARAGRAPH B OF THIS SUBDIVISION, EVERY STAIR CONSTRUCTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, LEADING TO A CELLAR OR BASEMENT FROM THE FIRST STORY ABOVE SHALL BE ENTIRELY ENCLOSED WITH FIREPROOF WALLS AND BE PROVIDED WITH FIREPROOF DOORS AND ASSEMBLIES AT BOTH TOP AND BOTTOM, WITH THE DOORS SELF-CLOSING; EXCEPT THAT, IN A NON-FIREPROOF MULTIPLE DWELLING ERECTED BEFORE SUCH DATE, WHERE SUCH A STAIR IS PERMITTED SUCH ENCLOSING WALLS MAY BE FIRE-RETARDED.

B. WHEN THE FIRST FLOOR OR A PART THEREOF, IN A FIREPROOF MULTIPLE DWELLING, IS USED FOR BUSINESS PURPOSES, A STAIR LEADING TO A CELLAR OR BASEMENT FROM SUCH BUSINESS SPACE SHALL BE ENCLOSED IN FIREPROOF WALLS HAVING A FIRE-RESISTIVE RATING OF AT LEAST THREE HOURS AND BE PROVIDED WITH A FIREPROOF DOOR AND ASSEMBLY AT THE BOTTOM, WITH THE DOOR SELF-CLOSING. NO OPENING SHALL BE PERMITTED BETWEEN SUCH BUSINESS SPACE AND THE REMAINDER OF THE DWELLING.

6. THE DEPARTMENT SHALL HAVE THE POWER TO MAKE SUPPLEMENTARY REGULATIONS RELATING TO FIRE-TOWERS.

7. IN EVERY MULTIPLE DWELLING ERECTED UNDER PLANS FILED WITH THE DEPARTMENT AFTER JANUARY FIRST, NINETEEN HUNDRED SIXTY, ON EVERY STORY ABOVE THE ENTRANCE STORY EVERY DOOR OPENING INTO SUCH STAIR SHALL BE SO HUNG AND ARRANGED THAT IN OPENING AND WHEN OPENED IT SHALL AT NO POINT REDUCE THE CLEAR AND UNOBSTRUCTED REQUIRED WIDTH OF THE STAIR OR STAIR LANDING.

8. THE PROVISIONS OF THIS SECTION SHALL NOT APPLY TO A STAIR WITHIN AN APARTMENT PROVIDED THAT EACH LEVEL OF THE APARTMENT IS PROVIDED WITH REQUIRED MEANS OF EGRESS COMPLYING WITH THE PROVISIONS OF THIS ARTICLE.

SEC. 54. CELLAR ENTRANCE.

THERE SHALL BE A DIRECT ENTRANCE TO THE CELLAR, OR TO THE LOWEST STORY IF THERE BE NO CELLAR, FROM THE OUTSIDE OF EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, EXCEPT THAT IN NON-FIREPROOF MULTIPLE DWELLINGS ERECTED AFTER SUCH DATE WHICH ARE THREE STORIES OR LESS IN HEIGHT AND OCCUPIED BY NOT MORE THAN TWO FAMILIES ON ANY STORY, ANY STAIR LEADING TO SUCH CELLAR OR LOWEST STORY MAY BE LOCATED INSIDE THE DWELLING PROVIDED IT IS ENCLOSED IN FIREPROOF WALLS AND FIREPROOF DOORS AND ASSEMBLIES WITH THE DOORS SELF-CLOSING, AT BOTH THE LEVEL OF SUCH CELLAR OR LOWEST STORY AND THAT OF THE STORY ABOVE. NO SUCH OUTSIDE ENTRANCE EXISTING IN ANY MULTIPLE DWELLING ON APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, SHALL BE OBSTRUCTED.

SEC. 57. BELLS; MAIL RECEPTACLES.

1. WHENEVER BELLS ARE INSTALLED AT THE ENTRANCE TO ANY MULTIPLE DWELLING OR AT ANY DOOR OF AN INDIVIDUAL APARTMENT IN A MULTIPLE DWELLING, THEY SHALL BE KEPT IN GOOD WORKING ORDER.

2. WHENEVER THE OWNER OF A MULTIPLE DWELLING HAS NOT ARRANGED FOR MAIL TO BE DELIVERED TO OCCUPANTS THEREOF BY HIMSELF, HIS AGENT OR EMPLOYEES, ARRANGEMENTS SHALL BE MADE FOR THE DELIVERY OF SUCH MAIL IN CONFORMITY WITH REGULATIONS OF THE POST OFFICE DEPARTMENT.

SEC. 58. INCOMBUSTIBLE MATERIALS.

EXCEPT AS MAY BE SPECIFICALLY PROVIDED OTHERWISE IN THIS CHAPTER, ALL REQUIRED INCOMBUSTIBLE MATERIALS, INCLUDING FIREPROOFED WOOD, SHALL BE CAPABLE OF WITHSTANDING SUCCESSFULLY STANDARD FIRE TESTS AS PRESCRIBED BY THE BUILDING CODE. IN THE ABSENCE OF ANY SUCH PRESCRIBED REQUIREMENTS, THE DEPARTMENT SHALL HAVE THE POWER TO MAKE SUPPLEMENTARY REGULATIONS RELATIVE TO STANDARD FIRE TESTS FOR INCOMBUSTIBLE MATERIALS.

SEC. 61. BUSINESS USES.

1. EXCEPT AS MAY BE OTHERWISE PROVIDED BY ANY LOCAL LAW, ORDINANCE, RULE OR REGULATION, BUSINESS MAY BE CONDUCTED IN ANY MULTIPLE DWELLING INCLUDING:

A. BAKING AND FAT-BOILING AS PROVIDED IN SECTION FIFTY-NINE,

B. STORAGE OF PASSENGER MOTOR VEHICLES AS PROVIDED IN SECTION SIXTY, AND

C. ANY MANUFACTURING BUSINESS IN WHICH SEVEN OR MORE PERSONS ARE EMPLOYED, OR ANY EMPLOYMENT AGENCY AS DEFINED IN SECTION ONE HUNDRED SEVENTY-ONE OF THE GENERAL BUSINESS LAW OTHER THAN A NON-PROFIT EMPLOYMENT AGENCY IN A FIREPROOF CLASS B MULTIPLE DWELLING OWNED AND OCCUPIED BY A NON-PROFIT CORPORATION ORGANIZED FOR AND ENGAGED EXCLUSIVELY IN PROMOTING RELIGIOUS, EDUCATION OR PHILANTHROPIC PURPOSES, PROVIDED THAT EVERY MEANS OF EGRESS FROM SUCH A BUSINESS SPACE SHALL BE SEPARATE AND DISTINCT FROM AND WITHOUT MEANS OF COMMUNICATION WITH ANY MEANS OF EGRESS FROM THE DWELLING PORTION OF THE BUILDING.

2. THE NUMBER OF MEANS OF EGRESS FROM THE PORTION OF ANY MULTIPLE DWELLING WHERE BUSINESS IS CONDUCTED SHALL BE IN CONFORMITY WITH THOSE PROVISIONS OF THE LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS COVERING MEANS OF EGRESS FROM BUILDINGS IN WHICH A LIKE BUSINESS IS CONDUCTED.

3. THERE SHALL BE NO MANUFACTURING BUSINESS CONDUCTED ABOVE THE SECOND FLOOR OF ANY NON-FIREPROOF MULTIPLE DWELLING.

4. WHERE BUSINESS IS CONDUCTED IN ANY MULTIPLE DWELLING ERECTED BEFORE APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, SUCH BUSINESS SPACE SHALL ALSO COMPLY WITH ALL THE FOLLOWING REQUIREMENTS IN A MANNER WHICH THE DEPARTMENT SHALL DEEM ADEQUATE TO PREVENT THE SPREAD OF FIRE:

A. WITHIN OR APPURTENANT TO SUCH SPACE, ALL PIPE CHASES AND OPENINGS AROUND FLUES SHALL BE FIRE-STOPPED, AND SUCH FLUES SHALL BE KEPT IN GOOD ORDER AND REPAIR.

B. ALL OTHER OPENINGS FROM SUCH SPACE INTO NON-FIREPROOF SHAFTS OR INTO ENTRANCE HALLS SHALL EITHER BE SEALED WITH FIRE-RETARDED MATERIAL OR EQUIPPED WITH A SELF-CLOSING FIRE-RETARDED DOOR OR WINDOW WITH FIRE-RETARDED ASSEMBLIES.

5. WHERE BUSINESS IS CONDUCTED IN ANY NON-FIREPROOF MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, THE WALLS AND CEILING OF SUCH BUSINESS SPACE SHALL BE FIRE-RETARDED. THE DEPARTMENT MAY ALSO REQUIRE THE WALLS AND CEILINGS OF ANY BUSINESS SPACE IN ANY MULTIPLE DWELLING ERECTED BEFORE SUCH DATE TO BE FIRE-RETARDED WHEN THE DEPARTMENT SHALL DEEM SUCH REQUIREMENT NECESSARY FOR THE PROTECTION OF THE OCCUPANTS.

6. IF THE GROUND STORY OF ANY NON-FIREPROOF MULTIPLE DWELLING IS EXTENDED FOR BUSINESS PURPOSES, THE UNDERSIDE OF THE ROOF OF SUCH EXTENSION SHALL BE FIRE-RETARDED. IF THERE ARE FIRE-ESCAPES ABOVE SUCH EXTENSION, ITS ROOF SHALL BE FIREPROOF.

SEC. 62. PARAPETS, GUARD RAILINGS AND WIRES.

1. EVERY OPEN AREA OF A ROOF, TERRACE, AREAWAY, OUTSIDE STAIR, STAIR LANDING, RETAINING WALL OR PORCH AND EVERY STAIR WINDOW OF A MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, SHALL BE PROTECTED IN A MANNER APPROVED BY THE DEPARTMENT BY A PARAPET WALL OR A GUARD RAILING THREE FEET SIX INCHES OR MORE IN HEIGHT ABOVE THE LEVEL OF SUCH AREA, OR, IN THE CASE OF A STAIR WINDOW, ABOVE THE LEVEL OF THE FLOOR ADJACENT THERETO, UNLESS THE DEPARTMENT SHALL DEEM THAT SUCH PROTECTION IS NOT NECESSARY FOR SAFETY. IN ANY MULTIPLE DWELLING WHERE A BULKHEAD DOOR OR SCUTTLE COVER OPENS WITHIN FOUR FEET OF THE EDGE OF THE ROOF, THAT PART OF THE ROOF WHICH IS IMMEDIATELY ADJACENT TO SUCH DOOR OR COVER SHALL BE ADEQUATELY PROTECTED. SUCH PROTECTION SHALL CONSIST OF GUARD RAILS OR PARAPET WALLS EXTENDING AT LEAST THREE FEET SIX INCHES ABOVE THE LEVEL OF THE ROOF, AND SHALL BE ARRANGED AND PLACED IN A MANNER APPROVED BY THE DEPARTMENT, BUT SHALL NOT BE REQUIRED FOR SUCH BULKHEAD DOOR OR SCUTTLE COVER WHEN THE BULKHEAD OR SCUTTLE ON SUCH DWELLING IS IMMEDIATELY ADJACENT TO, AND ALSO ON THE SAME LEVEL AS OR ON A LOWER LEVEL THAN, THE ROOF OF A CONTIGUOUS BUILDING. THIS SUBDIVISION SHALL NOT APPLY TO THE OPEN AREA OF A ROOF OF A GARDEN-TYPE MAISONETTE DWELLING PROJECT.

2. ALL RADIO, ANTENNAE OR OTHER WIRES OVER ANY ROOF SHALL, UNLESS OTHERWISE PERMITTED BY THE DEPARTMENT, BE KEPT TEN FEET OR MORE ABOVE SUCH ROOF, AND NO RADIO, TELEVISION ANTENNAE OR OTHER WIRES SHALL BE ATTACHED TO ANY FIRE ESCAPE OR TO ANY SOIL OR VENT LINE EXTENDING ABOVE THE ROOF.

SEC. 63. SUB-CURB USES.

1. WHEN ANY LIVING ROOM IS BELOW THE LEVEL OF THE HIGHEST CURB IN FRONT OF ANY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, IN ACCORDANCE WITH THE PROVISIONS OF PARAGRAPH F OF SUBDIVISION ONE OF SECTION THIRTY-FOUR, ALL PORTIONS OF SUCH DWELLING BELOW SUCH LEVEL SHALL BE FIREPROOF THROUGHOUT EXCEPT THAT WINDOWS THEREIN NEED NOT BE FIREPROOF BUT SHALL BE OF INCOMBUSTIBLE MATERIAL AND MAY BE GLAZED WITH PLAIN GLASS.

2. EXCEPT IN MULTIPLE DWELLINGS WHICH DO NOT EXCEED EIGHTY FEET IN HEIGHT MEASURED FROM THE LOWEST POINT OF ANY CURB ON WHICH ANY PART OF THE DWELLING FACES, AT LEAST ONE MEANS OF EGRESS FROM ANY APARTMENT OR SUITE OF ROOMS BELOW THE LEVEL OF THE HIGHEST CURB IN FRONT OF SUCH A DWELLING SHALL LEAD DIRECTLY TO THE STREET IN FRONT OF SAID DWELLING AND AT LEAST ONE SUCH MEANS TO THE YARD OR STREET IN THE REAR OF SAID DWELLING. EVERY YARD IN THE REAR OF EVERY SUCH MULTIPLE DWELLING, REGARDLESS OF THE HEIGHT OF SUCH DWELLING, SHALL AT THE LOWEST LEVEL OF SUCH YARD BE PROVIDED WITH A FIRE PASSAGE IN COMPLIANCE WITH THE REQUIREMENTS FOR SUCH A PASSAGE IN PARAGRAPH F OF SUBDIVISION FIVE OF SECTION TWENTY-SIX.

3. NOTWITHSTANDING ANY OTHER PROVISIONS OF THIS SECTION THE DEPARTMENT MAY REQUIRE SUCH ADDITIONAL MEANS OF EGRESS FROM THE SAID DWELLING OR PROTECTION FROM FIRE AS THE DEPARTMENT MAY DEEM NECESSARY FOR THE SAFETY OF THE OCCUPANTS.

SEC. 64. LIGHTING; GAS METERS; GAS AND OIL APPLIANCES.

1. EVERY MULTIPLE DWELLING AFTER JULY FIRST, NINETEEN HUNDRED FIFTY-FIVE, SHALL BE ADEQUATELY EQUIPPED THROUGHOUT ALL STORIES AND CELLARS FOR LIGHTING BY GAS OR ELECTRICITY, WITH PROPER FIXTURES AT EVERY LIGHT OUTLET, INCLUDING LIGHTING FOR ALL MEANS OF EGRESS LEADING TO THE STREET, YARDS OR COURTS, AND FOR EVERY ROOM, WATER-CLOSET COMPARTMENT, BATHROOM, STAIR OR PUBLIC HALL.

2. NO GAS METER, OTHER THAN A REPLACEMENT METER, INSTALLED IN A MULTIPLE DWELLING AFTER JULY FIRST, NINETEEN HUNDRED FIFTY-FIVE, SHALL BE LOCATED IN ANY BOILER ROOM OR OTHER ROOM OR SPACE CONTAINING A HEATING BOILER, NOR IN ANY STAIR HALL, NOR IN ANY PUBLIC HALL ABOVE THE CELLAR OR ABOVE THE LOWEST STORY IF THERE IS NO CELLAR, EXCEPT THAT IN ANY MULTIPLE DWELLING WHERE THERE IS AN EXISTING GAS METER LOCATED IN ANY BOILER ROOM OR OTHER ROOM OR SPACE CONTAINING A HEATING BOILER, ONE ADDITIONAL GAS METER MAY BE INSTALLED IN SUCH ROOM OR SPACE, PROVIDED SUCH ADDITIONAL GAS METER IS INSTALLED ADJACENT TO SUCH EXISTING GAS METER AND IS USED IN CONJUNCTION WITH THE SUPPLY OF GAS FOR A GAS-FIRED HEATING BOILER OR A GAS-FIRED WATER HEATER USED AS A CENTRAL SOURCE OF SUPPLY OF HEAT OR HOT WATER FOR THE TENANTS RESIDING IN SUCH MULTIPLE DWELLING. SUCH ADDITIONAL GAS METER MAY BE INSTALLED ONLY UPON CONDITION THAT SPACE HEATERS OR HOT WATER APPLIANCES IN THE APARTMENTS ARE ELIMINATED. FOR THE PURPOSES OF THIS SUBDIVISION, THE TERM "GAS METER" SHALL NOT INCLUDE ANY INSTRUMENT, DEVICE OR APPARATUS USED TO MEASURE THE CONSUMPTION OF GAS WHERE NO GAS, MANUFACTURED, NATURAL OR MIXED, IS CONTAINED IN OR FLOWS THROUGH SUCH INSTRUMENT, DEVICE OR APPARATUS, PROVIDED THAT SUCH INSTRUMENT, DEVICE OR APPARATUS IS APPROVED BY AND INSTALLED UNDER THE SUPERVISION OF THE CITY AGENCY VESTED BY LAW WITH JURISDICTION TO INSPECT AND TEST WIRING AND APPLIANCES FOR ELECTRIC LIGHT, HEAT AND POWER AND PROVIDED FURTHER THAT THE LOCATION OF SUCH INSTRUMENT, DEVICE OR APPARATUS IS APPROVED BY THE DEPARTMENT.

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NYS MULTIPLE DWELLING LAW NOTES, CONTINUED

3. IT SHALL BE UNLAWFUL TO PLACE, USE, OR TO MAINTAIN IN A CONDITION INTENDED, ARRANGED OR DESIGNED FOR USE, ANY GAS-FIRED COOKING APPLIANCE, LAUNDRY STOVE, HEATING STOVE, RANGE OR WATER HEATER OR COMBINATION OF SUCH APPLIANCES IN ANY ROOM OR SPACE USED FOR LIVING OR SLEEPING IN ANY NEW OR EXISTING MULTIPLE DWELLING UNLESS SUCH ROOM OR SPACE HAS A WINDOW OPENING TO THE OUTER AIR OR SUCH GAS APPLIANCE IS VENTED TO THE OUTER AIR. ALL AUTOMATICALLY OPERATED GAS APPLIANCES SHALL BE EQUIPPED WITH A DEVICE WHICH SHALL SHUT OFF AUTOMATICALLY THE GAS SUPPLY TO THE MAIN BURNERS WHEN THE PILOT LIGHT IN SUCH APPLIANCE IS EXTINGUISHED. A GAS RANGE OR THE COOKING PORTION OF A GAS APPLIANCE INCORPORATING A ROOM HEATER SHALL NOT BE DEEMED AN AUTOMATICALLY OPERATED GAS APPLIANCE. HOWEVER, BURNERS IN GAS OVENS AND BROILERS WHICH CAN BE TURNED ON AND OFF OR IGNITED BY NON-MANUAL MEANS SHALL BE EQUIPPED WITH A DEVICE WHICH SHALL SHUT OFF AUTOMATICALLY THE GAS SUPPLY TO THOSE BURNERS WHEN THE OPERATION OF SUCH NON-MANUAL MEANS FAILS. ALL GAS APPLIANCES SHALL BE CONNECTED DIRECTLY TO THE GAS SUPPLY BY MEANS OF RIGID PIPING OR OTHER APPROVED CONNECTORS OR CONNECTIONS OF INCOMBUSTIBLE MATERIALS. ALL SUCH AUTOMATICALLY OPERATED GAS APPLIANCES AND DEVICES SHALL BE APPROVED BY THE LOCAL AGENCY EMPOWERED TO GRANT THE SAME.

4. IT SHALL BE UNLAWFUL TO USE, OR TO MAINTAIN IN A CONDITION INTENDED, ARRANGED OR DESIGNED FOR USE, IN ANY MULTIPLE DWELLING ANY OIL-BURNING EQUIPMENT FOR HEATING OR COOKING, UNLESS SUCH EQUIPMENT HAS BEEN APPROVED FOR DESIGN, MANUFACTURE AND APPROPRIATE SAFETY AND VENTILATING REQUIREMENTS BY THE LOCAL BOARD OF STANDARDS AND APPEALS; PROVIDED, HOWEVER, THAT IN A CITY HAVING A POPULATION OF ONE MILLION OR MORE, APPROVAL OF SUCH EQUIPMENT FOR USE IN ANY MULTIPLE DWELLING SHALL BE MADE BY THE COMMISSIONER OF BUILDINGS OR THE FIRE COMMISSIONER, AS APPROPRIATE, IN ACCORDANCE WITH LOCAL LAW.

5. ALL APPLIANCES IN USE AFTER JUNE THIRTIETH, NINETEEN HUNDRED FIFTY-FIVE, SHALL CONFORM TO THE PROVISIONS OF SUBDIVISIONS THREE AND FOUR OF THIS SECTION EXCEPT THAT APPLIANCES NOW IN USE SHALL CONFORM TO SUCH PROVISIONS NOT LATER THAN JUNE THIRTIETH, NINETEEN HUNDRED FIFTY-SIX.

SEC. 65. BOILER ROOMS.

1. EXCEPT AS HEREAFTER PROVIDED, IN EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, WHICH IS FOUR STORIES OR MORE IN HEIGHT THE BOILER SHALL BE ENCLOSED IN A ROOM OR SPACE CONSTRUCTED WITH FIREPROOF WALLS EXTENDING FROM THE FLOOR CONSTRUCTION TO THE CEILING CONSTRUCTION, AND ALL OPENINGS THEREFROM TO OTHER PORTIONS OF THE DWELLING SHALL BE EQUIPPED WITH FIREPROOF DOORS AND ASSEMBLIES WITH THE DOORS SELF-CLOSING. HOWEVER, IN ALL MULTIPLE DWELLINGS, ON AND AFTER JANUARY FIRST, NINETEEN HUNDRED SIXTY-SIX, A ROOM OR SPACE PROVIDED WITH A CENTRAL HEATING PLANT SHALL BE COMPLETELY ENCLOSED WITH INCOMBUSTIBLE MATERIALS HAVING A STANDARD FIRE-RESISTIVE RATING OF AT LEAST ONE HOUR.

2. IN SUCH A DWELLING ACCESS TO A CELLAR OR LOWEST STORY IN WHICH A BOILER IS LOCATED SHALL NOT BE THROUGH ANY BOILER ROOM, NOR SHALL ANY CELLAR OR BASEMENT STAIR OR ANY SHAFT BE INSTALLED WITHIN A BOILER ROOM.

3. THE DEPARTMENT SHALL HAVE THE POWER TO MAKE SUPPLEMENTARY REGULATIONS RELATING TO BOILER OR FURNACE ROOMS.

SEC. 68. SMOKE DETECTING DEVICES.

1. THIS SECTION SHALL APPLY TO ALL MULTIPLE DWELLINGS, WHENEVER CONSTRUCTED, PROVIDED HOWEVER, THAT FOR THE PURPOSES OF THIS SECTION THE TERM "MULTIPLE DWELLING" SHALL ALSO INCLUDE ANY DWELLING ACCOMMODATION USED AS A TEMPORARY OR PERMANENT RESIDENCE LOCATED IN ANY BUILDING OWNED AS A CONDOMINIUM OR COOPERATIVE.

2. (A) THE OWNER OF EVERY MULTIPLE DWELLING TO WHICH THE PROVISIONS OF THIS SECTION APPLY SHALL EQUIP EACH APARTMENT OR OTHER SEPARATE LIVING UNIT IN SUCH MULTIPLE DWELLING WITH APPROVED AND OPERATIONAL SMOKE DETECTING DEVICES IN CONFORMITY WITH THE STATE FIRE PREVENTION AND BUILDING CODE; PROVIDED, HOWEVER, THAT ANY MULTIPLE DWELLING NOT SUBJECT TO THE PROVISIONS OF SUCH CODE MAY, IN THE ALTERNATIVE, BE EQUIPPED WITH BATTERY-OPERATED SMOKE DETECTING DEVICES OF A TYPE ACCEPTED BY THE DIVISION OF HOUSING AND COMMUNITY RENEWAL.

(B) IN HOTELS AND OTHER CLASS B MULTIPLE DWELLINGS, AND IN ANY PORTION OF A CLASS A MULTIPLE DWELLING USED FOR SINGLE ROOM OCCUPANCY, AT LEAST ONE SMOKE DETECTING DEVICE SHALL BE LOCATED WITHIN EACH ROOM USED FOR SLEEPING PURPOSES. IN ANY OTHER MULTIPLE DWELLING OR PORTION THEREOF, THERE SHALL BE AT LEAST ONE SMOKE DETECTING DEVICE LOCATED WITHIN EACH APARTMENT OR SEPARATE LIVING UNIT, IN AN AREA SO THAT IT IS CLEARLY AUDIBLE IN EACH BEDROOM OR OTHER ROOM USED FOR SLEEPING PURPOSES, WITH INTERVENING DOORS CLOSED; PROVIDED, HOWEVER, THAT NO SMOKE DETECTING DEVICE BE LOCATED MORE THAN TEN FEET FROM THE ENTRANCE TO ANY BEDROOM OR OTHER ROOM USED FOR SLEEPING PURPOSES.

(C) EACH SMOKE DETECTING DEVICE SHALL INCLUDE A TEST DEVICE TO PERMIT THE OCCUPANT TO READILY DETERMINE IF IT IS OPERATIONAL.
(D) IN ADDITION TO COMPLYING WITH THE PROVISIONS OF THIS SECTION, THE TYPE, LOCATION, NUMBER, AND MANNER OF INSTALLATION OF SMOKE DETECTING DEVICES SHALL BE IN ACCORDANCE WITH STANDARDS PRESCRIBED BY THE STATE FIRE PREVENTION AND BUILDING CODE COUNCIL.

3. (A) WITH RESPECT TO CLASS A MULTIPLE DWELLINGS, OTHER THAN ANY PORTION OF ANY SUCH DWELLING USED FOR SINGLE ROOM OCCUPANCY, AND NOTWITHSTANDING THE PROVISIONS OF SECTION SEVENTY-EIGHT OR ANY OTHER PROVISION OF THIS CHAPTER, OR OF ANY LAW OR REQUIREMENT, STATE OR LOCAL, THE DUTIES OF THE OWNER AND TENANT WITH RESPECT TO SMOKE DETECTING DEVICES INSTALLED PURSUANT TO THIS SECTION SHALL BE AS PROVIDED IN SUBDIVISIONS FOUR AND FIVE OF THIS SECTION.

(B) WITH RESPECT TO A CLASS B MULTIPLE DWELLING, OR ANY PORTION OF A CLASS A MULTIPLE DWELLING USED FOR SINGLE ROOM OCCUPANCY, THE PROVISIONS OF SUBDIVISION FIVE OF THIS SECTION SHALL NOT APPLY, AND SMOKE DETECTING DEVICES INSTALLED AS REQUIRED BY THIS SECTION SHALL BE SUBJECT TO THE PROVISIONS OF SECTION SEVENTY-EIGHT OF THIS CHAPTER.

(C) THE OWNER OF EVERY MULTIPLE DWELLING SHALL KEEP SUCH RECORDS AS THE STATE FIRE PREVENTION AND BUILDING CODE COUNCIL SHALL PRESCRIBE RELATING TO THE INSTALLATION AND MAINTENANCE OF SMOKE DETECTING DEVICES IN THE BUILDING AND MAKE SUCH RECORDS AVAILABLE TO ANY LOCAL CODE ENFORCEMENT OFFICIAL ON REQUEST.

4. IN ADDITION TO INITIALLY PROVIDING AND INSTALLING THE SMOKE DETECTING DEVICES, THE OWNER SHALL:

(A) REPLACE WITHIN THIRTY DAYS AFTER THE RECEIPT OF WRITTEN NOTICE ANY SUCH DEVICE WHICH BECOMES INOPERABLE WITHIN ONE YEAR OF THE INSTALLATION OF SUCH DEVICE DUE TO A DEFECT IN THE MANUFACTURE OF SUCH DEVICE AND THROUGH NO FAULT OF THE OCCUPANT OF THE APARTMENT OR OTHER UNIT;

(B) UPON THE OCCURRENCE OF A VACANCY, REPLACE OR PROPERLY EQUIP ANY SUCH DEVICE WHICH HAS BEEN REMOVED OR RENDERED INOPERABLE, SO AS TO PROVIDE OPERATIONAL SMOKE DETECTING DEVICES FOR ANY NEW TENANT; AND

(C) NOTIFY TENANTS IN WRITING, INDIVIDUALLY OR THROUGH POSTING OF A NOTICE IN A COMMON AREA OF THE BUILDING, OF THE RESPECTIVE DUTIES OF OWNERS AND TENANTS UNDER THIS SECTION.

5. EXCEPT AS PROVIDED IN PARAGRAPH (B) OF SUBDIVISION THREE OF THIS SECTION, THE TENANT SHALL KEEP AND MAINTAIN ANY SMOKE DETECTING DEVICE INSTALLED PURSUANT TO THIS SECTION IN GOOD REPAIR AND REPLACE ANY SUCH DEVICE WHICH BECOMES INOPERABLE DURING HIS OCCUPANCY.

6. AN OWNER NEED NOT FURNISH OR INSTALL A SMOKE DETECTING DEVICE WHERE ONE HAS ALREADY BEEN INSTALLED, PROVIDED THAT (A) THE TYPE OF SUCH DEVICE AND THE MANNER OF ITS INSTALLATION COMPLY WITH THE PROVISIONS OF THIS SECTION AND THE STANDARDS PRESCRIBED BY THE STATE FIRE PREVENTION AND BUILDING CODE COUNCIL, (B) THE EXISTING DEVICE IS TESTED AND FOUND TO BE OPERATIONAL, AND (C) THE EXISTENCE OF SUCH DEVICE IN LIEU OF AN OWNER-FURNISHED DEVICE IS NOTED ON THE RECORDS KEPT BY THE OWNER PURSUANT TO PARAGRAPH (C) OF SUBDIVISION THREE OF THIS SECTION.

7. THIS SECTION SHALL NOT APPLY WITHIN CITIES WITH A POPULATION OF ONE MILLION OR MORE, PROVIDED HOWEVER, ANY LOCAL LAW IN SUCH CITIES RELATING TO SMOKE DETECTING DEVICES SHALL PROVIDE FOR THE INSTALLATION AND MAINTENANCE OF SMOKE DETECTING DEVICES IN DWELLING ACCOMMODATIONS LOCATED IN BUILDINGS OWNED AS CONDOMINIUMS OR COOPERATIVES.

TITLE 3
SANITATION AND HEALTH

SEC. 75. WATER SUPPLY.

1. IN EVERY MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, WHERE SPACE IS PROVIDED FOR COOKING THERE SHALL BE IN EVERY APARTMENT A PROPER SINK WITH RUNNING WATER AND WITH A TWO-INCH WASTE AND TRAP.

2. THE OWNER OF EVERY MULTIPLE DWELLING SHALL PROVIDE PROPER APPLIANCES TO RECEIVE AND DISTRIBUTE AN ADEQUATE SUPPLY OF WATER, TO AND IN EVERY APARTMENT OR SUITE OF ROOMS AT ALL TIMES OF THE YEAR, DURING ALL HOURS. FAILURE IN THE GENERAL SUPPLY OF WATER FROM THE STREET SERVICE MAIN SHALL NOT BE CONSTRUED AS A FAILURE ON THE PART OF THE OWNER, IF SUITABLE APPLIANCES TO RECEIVE AND DISTRIBUTE SUCH WATER HAVE BEEN PROVIDED IN THE DWELLING.

3. FOR DWELLINGS THREE OR MORE STORIES IN HEIGHT ERECTED ON OR AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, AND FOR ALL DWELLINGS ERECTED AFTER JANUARY FIRST, NINETEEN HUNDRED FIFTY-ONE, SUCH SUPPLY SHALL INCLUDE BOTH HOT AND COLD WATER AT ALL TIMES OF THE YEAR, DURING ALL HOURS, EXCEPT THAT HOT WATER SERVICE SHALL NOT BE REQUIRED BY THIS SECTION IN A DWELLING ERECTED BEFORE APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, IF THE OWNER ESTABLISHES TO THE SATISFACTION OF THE DEPARTMENT THAT SUCH SERVICE WAS NOT FURNISHED OR REQUIRED BEFORE SUCH DATE.

4. NO MULTIPLE DWELLING SHALL BE ERECTED UNLESS IT IS CONNECTED WITH A STREET SERVICE WATER MAIN.

5. NO REQUIRED SINK SHALL BE PLACED WITHIN ANY WATER-CLOSET COMPARTMENT OR WITHIN ANY BATHROOM CONTAINING A WATER-CLOSET.

SEC. 76. WATER-CLOSET AND BATH ACCOMMODATIONS.

1. GENERAL REQUIREMENTS. THIS SECTION SHALL APPLY TO ALL DWELLINGS WHENEVER ERECTED OR CONVERTED EXCEPT AS HEREIN PROVIDED.

A. NO WATER-CLOSET SHALL BE INSTALLED, KEPT OR MAINTAINED IN ANY YARD, COURT OR OTHER OPEN SPACE, AND EVERY WATER-CLOSET OR OTHER RECEPTACLE TO RECEIVE FECAL MATTER, URINE OR SEWERAGE, LOCATED IN ANY SUCH YARD, COURT OR OTHER OPEN SPACE, SHALL BE COMPLETELY REMOVED, AND THE PLACE WHERE THEY WERE LOCATED SHALL BE DISINFECTED UNDER THE DIRECTION OF THE DEPARTMENT.

B. NO WATER-CLOSET SHALL BE INSTALLED, KEPT OR MAINTAINED IN A CELLAR OR BASEMENT UNLESS IT IS PROVIDED FOR LAWFUL CELLAR OR BASEMENT LIVING ROOMS, OR IS SUPPLEMENTARY TO THE REQUIRED WATER-CLOSET ACCOMMODATIONS.

C. NO WATER-CLOSET SHALL OPEN DIRECTLY INTO ANY KITCHEN OR KITCHENETTE IN A MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE.

D. EVERY WATER-CLOSET COMPARTMENT SHALL BE AT LEAST TWO FEET FOUR INCHES IN CLEAR WIDTH AND, EXCEPT IN A GENERAL TOILET OR BATHROOM, SHALL BE ENCLOSED WITH PARTITIONS WHICH SHALL EXTEND FROM THE FLOOR TO THE CEILING AND WHICH SHALL BE PLASTERED OR TILED OR COVERED WITH SIMILAR MATERIALS APPROVED BY THE DEPARTMENT.

E. THE FLOOR OF EVERY SUCH COMPARTMENT, BATHROOM OR GENERAL TOILET ROOM SHALL BE MADE WATERPROOF WITH MATERIAL APPROVED BY THE DEPARTMENT, AND SUCH WATERPROOFING MATERIAL SHALL EXTEND SIX INCHES OR MORE ABOVE THE FLOOR, EXCEPT AT DOORS.

F. THE USE OF DRIP TRAYS IS UNLAWFUL.

G. NO PLUMBING FIXTURE OR WATER-CLOSET SHALL BE ENCLOSED WHOLLY OR IN PART WITH WOODWORK.

H. EVERY WATER-CLOSET COMPARTMENT, BATHROOM AND GENERAL OR PUBLIC TOILET ROOM, AND EVERY OTHER ROOM CONTAINING ONE OR MORE WATER-CLOSETS OR URINALS, EXCEPT AS SPECIFICALLY PROVIDED OTHERWISE IN THIS SECTION, SHALL HAVE AT LEAST ONE WINDOW OPENING UPON A STREET OR LAWFUL COURT, YARD OR SPACE ABOVE A SETBACK. EVERY SUCH WINDOW SHALL BE AT LEAST THREE SQUARE FEET IN AREA AND SHALL BE MADE SO THAT HALF ITS AREA CAN BE READILY OPENED.

I. NO WINDOW SHALL BE REQUIRED WHEN EACH SUCH COMPARTMENT, BATHROOM OR GENERAL TOILET ROOM IS LOCATED ON THE TOP STORY OR UNDERNEATH THE BOTTOM OF A LAWFUL SHAFT OR COURT AND IS LIGHTED AND VENTILATED IN EITHER CASE BY A SKYLIGHT THE ROOF OF WHICH CONTAINS AT LEAST THREE SQUARE FEET OF GLAZED SURFACE AND IS ARRANGED TO BE READILY OPENED.

J. IN LIEU OF A REQUIRED WINDOW OR SKYLIGHT, IT SHALL BE LAWFUL TO INSTALL A SYSTEM OF VENTILATION, APPROVED FOR CONSTRUCTION AND ARRANGEMENT BY THE DEPARTMENT, FOR WATER-CLOSET COMPARTMENTS USED FOR THE BUSINESS PORTIONS OF ANY DWELLING OR FOR COMPARTMENTS CONTAINING WATER-CLOSETS, BATHROOMS OR GENERAL TOILET ROOM IN ANY DWELLING. SUCH SYSTEM OF VENTILATION SHALL BE MAINTAINED AND OPERATED CONTINUOUSLY TO PROVIDE AT LEAST FOUR CHANGES PER HOUR OF THE AIR VOLUME OF EACH SUCH WATER-CLOSET COMPARTMENT, BATHROOM OR GENERAL TOILET ROOM DAILY FROM SEVEN O'CLOCK IN THE MORNING UNTIL SEVEN O'CLOCK AT NIGHT IN ANY BUSINESS PARTS OF SUCH DWELLING AND FROM SIX O'CLOCK IN THE MORNING UNTIL MIDNIGHT IN ALL PARTS USED FOR DWELLING PURPOSES.

K. EVERY WATER-CLOSET COMPARTMENT OR BATHROOM SHALL BE PROVIDED WITH ELECTRICITY AND FIXTURES TO LIGHT THE SAME PROPERLY.

L. IN A FIREPROOF DWELLING IN WHICH TWO OR MORE ROOMS, ALL OF WHICH OPEN DIRECTLY UPON THE SAME PUBLIC HALL, ARE OCCUPIED EXCLUSIVELY BY PERSONS EMPLOYED BY THE TENANTS THEREOF, THERE SHALL BE PROVIDED FOR THE OCCUPANTS OF SUCH ROOMS AND ACCESSIBLE THEREFROM DIRECTLY OR THROUGH SUCH PUBLIC HALL, AT LEAST ONE WATER-CLOSET COMPARTMENT FOR THE FIRST FOUR SUCH ROOMS OR FRACTION THEREOF AND AT LEAST ONE ADDITIONAL WATER-CLOSET COMPARTMENT FOR EACH ADDITIONAL SEVEN SUCH ROOMS OR FRACTION THEREOF, AND NO FURTHER WATER-CLOSET ACCOMMODATIONS FOR SUCH ROOMS SHALL BE REQUIRED.

M. WATER-CLOSETS MAY BE PLACED TOGETHER IN A GENERAL TOILET ROOM THEY ARE SUPPLEMENTARY TO REQUIRED WATER-CLOSET ACCOMMODATIONS OR ARE SOLELY FOR THE USE OF BUSINESS PORTIONS OF THE DWELLING.

N. EXCEPT AS HEREIN PROVIDED IF ANY LIVING ROOMS IN A FIREPROOF DWELLING OPEN DIRECTLY UPON A PUBLIC HALL WITHOUT ANY INTERVENING ROOM, FOYER OR PASSAGE, OR IF ANY PROVIDED SUITES OF TWO LIVING ROOMS IN SUCH A DWELLING OPEN UPON A FOYER GIVING DIRECT ACCESS TO A PUBLIC HALL, ONLY ONE WATER-CLOSET COMPARTMENT SHALL BE REQUIRED FOR EVERY THREE SUCH LIVING ROOMS ON EACH STORY. EVERY SUCH WATER-CLOSET COMPARTMENT SHALL BE ACCESSIBLE TO ONE OR MORE OF SAID ROOMS WITHOUT PASSAGE THROUGH A PUBLIC HALL OR ANY BEDROOM.

2. CLASS A DWELLINGS.

A. EVERY APARTMENT IN A CLASS A DWELLING, EXCEPT OLD-LAW TENEMENTS, SHALL BE PROVIDED WITH A WATER-CLOSET WHICH SHALL BE PLACED IN A COMPARTMENT COMPLETELY SEPARATED FROM ANY OTHER WATER-CLOSET.

B. EVERY APARTMENT IN A CLASS A DWELLING, EXCEPT OLD-LAW TENEMENTS, SHALL ALSO CONTAIN A BATH, WHICH MAY BE IN A SEPARATE COMPARTMENT OR TOGETHER WITH THE WATER-CLOSET IN A BATHROOM. THERE SHALL BE ACCESS TO AT LEAST ONE SUCH COMPARTMENT OR BATHROOM FROM EVERY BEDROOM WITHOUT PASSING THROUGH ANY OTHER BEDROOM.

3. CLASS B DWELLINGS.

A. THE REQUIREMENTS OF PARAGRAPH N, OF SUBDIVISION ONE OF THIS SECTION SHALL NOT APPLY TO A FIREPROOF CLASS B DWELLING, EVERY LIVING ROOM OF WHICH, EXCEPT THOSE USED ONLY BY EMPLOYEES EMPLOYED EXCLUSIVELY IN THE MANAGEMENT AND MAINTENANCE OF SUCH DWELLING, HAS DIRECT ACCESS TO A PUBLIC HALL WITHOUT PASSING THROUGH ANY OTHER ROOM, FOYER OR PRIVATE HALL AND IN WHICH WATER-CLOSET ACCOMMODATIONS ARE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF THIS SUBDIVISION.

B. IN SUCH A FIREPROOF DWELLING THERE SHALL BE ON EACH STORY UPON WHICH THERE IS ANY LIVING ROOM AT LEAST TWO WATER-CLOSET COMPARTMENTS FOR THE FIRST TWENTY SUCH LIVING ROOMS OR FRACTION THEREOF AND AT LEAST ONE ADDITIONAL WATER-CLOSET COMPARTMENT FOR EACH ADDITIONAL FIFTEEN SUCH LIVING ROOMS OR FRACTION THEREOF, AND NO FURTHER WATER-CLOSET ACCOMMODATIONS FOR SUCH ROOMS SHALL BE REQUIRED.

C. THERE SHALL BE ON EACH STORY OF SUCH FIREPROOF DWELLING, IN ADDITION TO THE WATER-CLOSET ACCOMMODATIONS REQUIRED IN PARAGRAPH N OF SUBDIVISION ONE HEREOF, AT LEAST ONE WATER-CLOSET COMPARTMENT FOR EVERY FIFTEEN LIVING ROOMS OR FRACTION THEREOF NOT HAVING ACCESS TO A WATER-CLOSET COMPARTMENT WITHOUT PASSAGE THROUGH A PUBLIC HALL OR BEDROOM, AND EVERY SUCH ROOM SHALL HAVE ACCESS TO SUCH A COMPARTMENT THROUGH A PUBLIC HALL. IF TWO OR MORE SUCH COMPARTMENTS BE REQUIRED ON ANY STORY BY THE PROVISIONS OF THIS PARAGRAPH, THEY MAY BE PLACED IN A GENERAL TOILET ROOM.

D. FOR EVERY URINAL SUPPLIED ON ANY STORY OF SUCH FIREPROOF DWELLING ON WHICH SEVENTEEN ROOMS OR MORE ARE OCCUPIED EXCLUSIVELY BY MALES, ONE WATER-CLOSET COMPARTMENT LESS THAN THE NUMBER OTHERWISE REQUIRED MAY BE PROVIDED ON SUCH STORY; EXCEPT THAT THE NUMBER OF WATER-CLOSET COMPARTMENTS ON SUCH STORY MAY NOT BE REDUCED TO LESS THAN THREE-QUARTERS OF THE NUMBER OTHERWISE REQUIRED.

E. THE WATER-CLOSET COMPARTMENTS ON EACH STORY OF SUCH A DWELLING SHALL BE ACCESSIBLE FROM EVERY LIVING ROOM ON THE STORY. SUCH COMPARTMENTS MAY BE PLACED IN ONE OR MORE GENERAL TOILET ROOMS.

F. IN A NON-FIREPROOF CLASS B DWELLING THERE SHALL BE AT LEAST ONE WATER-CLOSET COMPARTMENT AND ONE WASH BASIN FOR EVERY SEVEN SLEEPING ROOMS AND THERE NEED NOT BE MORE THAN THAT NUMBER EXCEPT THAT THERE SHALL BE AT LEAST ONE ON EACH STORY. AT LEAST ONE SUCH WATER-CLOSET COMPARTMENT AND ONE WASH BASIN ON EACH STORY OF SUCH DWELLING SHALL BE ACCESSIBLE FROM EVERY LIVING ROOM ON THE SAME STORY.

6. SINGLE ROOM OCCUPANCY.
A. EVERY APARTMENT USED FOR SINGLE ROOM OCCUPANCY SHALL HAVE AT LEAST ONE BATH OR SHOWER, ONE WASH-BASIN AND ONE WATER-CLOSET FOR EACH SIX ADULT PERSONS WHO MAY LAWFULLY OCCUPY THE ROOMS IN SUCH APARTMENT AS PROVIDED IN SECTION TWO HUNDRED FORTY-EIGHT, AND FOR ANY REMAINDER OF LESS THAN SIX PERSONS. IF ADDITIONAL BATHS OR SHOWERS OR WATER-CLOSETS ARE INSTALLED WITHIN AN APARTMENT IN ORDER TO COMPLY WITH THE PROVISIONS OF THIS PARAGRAPH EACH WATER-CLOSET SHALL BE IN AN ENCLOSURE SEPARATE AND APART FROM EVERY BATHROOM OR SHOWER ROOM AND EACH BATH OR SHOWER SHALL BE IN AN ENCLOSURE SEPARATE AND APART FROM EVERY WATER-CLOSET.

B. THERE SHALL BE ACCESS TO EACH REQUIRED WATER-CLOSET AND BATHROOM WITHOUT PASSING THROUGH ANY SLEEPING ROOM, EXCEPT THAT ANY WATER-CLOSET, WASH-BASIN OR BATHROOM WHICH CONNECTS DIRECTLY WITH ANY SLEEPING ROOM SHALL BE DEEMED TO BE AVAILABLE ONLY TO THE OCCUPANTS OF SUCH ROOM AND SHALL NOT BE INCLUDED IN THE COMPUTATIONS FOR THE REQUIRED NUMBER OF WATER-CLOSETS AND BATHROOMS.

7. SAVING CLAUSE. NO CHANGE NEED BE MADE IN THE NUMBER, CONSTRUCTION, ARRANGEMENT, LIGHTING OR VENTILATION OF WATER-CLOSET COMPARTMENTS, BATHROOMS OR GENERAL TOILET ROOMS IN ANY PORTION OF ANY DWELLING IF THE NUMBER, CONSTRUCTION, ARRANGEMENT, LIGHTING OR VENTILATION OF SUCH WATER-CLOSET COMPARTMENTS, BATHROOMS OR GENERAL TOILET ROOMS WAS LAWFUL ON JULY FIRST, NINETEEN HUNDRED SIXTY-ONE.

SEC. 77. PLUMBING AND DRAINAGE.

1. IN EVERY MULTIPLE DWELLING ALL LIQUID OR WATER-BORNE WASTE FROM PLUMBING FIXTURES SHALL BE CONVEYED BY A HOUSE DRAIN AND HOUSE SEWER TO A STREET SEWER OR TO A COMBINED STREET STORM-WATER MAIN AND SEWER, UNLESS NO SUCH SEWERS ARE AVAILABLE. IT SHALL BE UNLAWFUL TO ERECT A MULTIPLE DWELLING WHICH IS TO BE OCCUPIED BY FIVE FAMILIES OR MORE UNLESS A CONNECTION IS MADE WITH A STREET SEWER OR COMBINED STREET STORM-WATER MAIN AND SEWER.

2. FOR EVERY MULTIPLE DWELLING WHERE NEITHER KIND OF SEWER IS AVAILABLE, PROVISION SHALL BE MADE FOR DISPOSING OF SUCH WASTE AS MAY BE REQUIRED BY LOCAL LAW.

3. ALL ROOFS, TERRACES, SHAFTS, COURTS, AREAS AND YARDS IN EVERY MULTIPLE DWELLING SHALL BE PROPERLY GRADED, DRAINED AND CONNECTED WITH A STREET STORM-WATER MAIN OR COMBINED SEWER AND STREET STORM-WATER MAIN SO THAT ALL STORM WATER MAY PASS FREELY INTO IT, EXCEPT THAT WHERE NO STREET STORM-WATER MAIN OR COMBINED SEWER AND STREET STORM-WATER MAIN EXISTS, THE DEPARTMENT MAY PERMIT THE STORM WATER FROM SUCH AREAS AND SPACES TO DRAIN INTO A STREET GUTTER WHICH LEADS TO A NATURAL CHANNEL OR WATER COURSE, OR INTO A DRY WELL. WHEN REQUIRED BY THE DEPARTMENT, THE SHAFTS, COURTS, AREAS AND YARDS SHALL BE PROPERLY CONCRETED. EVERY ROOF SHALL BE SO DRAINED THAT ALL STORM WATER SHALL BE CONVEYED THEREFROM IN A MANNER THAT WILL PREVENT DRIPPING TO THE GROUND OR THE CAUSING OF DAMPNESS IN WALLS, CEILINGS, YARDS, SHAFTS OR AREAS. NOTHING IN THIS SECTION SHALL BE DEEMED TO PREVENT THE TURFING OVER OF ANY YARD OR COURT SPACE OR THE PLANTING OF SHRUBS OR TREES THEREIN WHEN APPROVED BY THE DEPARTMENT.

4. THE OWNER OF EVERY MULTIPLE DWELLING OR PART THEREOF SHALL THOROUGHLY CLEANSE AND KEEP CLEAN AT ALL TIMES, AND IN GOOD REPAIR, THE ENTIRE PLUMBING AND DRAINAGE SYSTEM INCLUDING EVERY WATER-CLOSET, TOILET AND SINK AND EVERY OTHER PLUMBING FIXTURE THEREIN.

5. WHENEVER THE PLUMBING, SEWERAGE OR DRAINAGE OF ANY MULTIPLE DWELLING OR PART THEREOF OR OF THE LOT ON WHICH IT IS SITUATED IS IN THE OPINION OF THE DEPARTMENT IN A CONDITION OR IN ITS EFFECT DANGEROUS TO LIFE OR HEALTH, THE DEPARTMENT MAY ORDER OR CAUSE ANY SUCH PLUMBING, SEWERAGE OR DRAINAGE TO BE PURIFIED, CLEANSED, DISINFECTED, REMOVED, ALTERED, REPAIRED OR IMPROVED, OR, AS PROVIDED IN SECTION THREE HUNDRED NINE, TAKE SUCH OTHER ACTION AS IT MAY DEEM NECESSARY TO REMOVE SUCH DANGER TO LIFE OR HEALTH.

SEC. 78. REPAIRS.

1. EVERY MULTIPLE DWELLING, INCLUDING ITS ROOF OR ROOFS, AND EVERY PART THEREOF AND THE LOT UPON WHICH IT IS SITUATED, SHALL BE KEPT IN GOOD REPAIR. THE OWNER SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THIS SECTION; BUT THE TENANT ALSO SHALL BE LIABLE IF A VIOLATION IS CAUSED BY HIS OWN WILFUL ACT, ASSISTANCE OR NEGLIGENCE OR THAT OF ANY MEMBER OF HIS FAMILY OR HOUSEHOLD OR HIS GUEST. ANY SUCH PERSONS WHO SHALL WILLFULLY VIOLATE OR ASSIST IN VIOLATING ANY PROVISION OF THIS SECTION SHALL ALSO JOINTLY AND SEVERALLY BE SUBJECT TO THE CIVIL PENALTIES PROVIDED IN SECTION THREE HUNDRED FOUR.

2. WHENEVER, THE LIGHT, VENTILATION, OR ANY MATTER OR THING IN OR ABOUT A MULTIPLE DWELLING OR PART THEREOF, OR IN OR ABOUT THE LOT ON WHICH IT IS SITUATED, IS IN THE OPINION OF THE DEPARTMENT IN A CONDITION OR IN ITS EFFECT DANGEROUS TO LIFE OR HEALTH, THE DEPARTMENT MAY ORDER OR CAUSE ANY SUCH LIGHT, VENTILATION, MATTER OR THING TO BE REPAIRED OR IMPROVED OR, AS PROVIDED IN SECTION THREE HUNDRED NINE, TAKE SUCH OTHER ACTION AS IT MAY DEEM NECESSARY TO REMOVE SUCH DANGER TO LIFE OR HEALTH.

SEC. 79. HEATING.

1. EVERY MULTIPLE DWELLING EXCEEDING TWO STORIES IN HEIGHT AND ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, AND EVERY GARDEN-TYPE MAISONETTE DWELLING PROJECT ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED FIFTY-FOUR, SHALL BE PROVIDED WITH HEAT. ON AND AFTER NOVEMBER FIRST, NINETEEN HUNDRED FIFTY-NINE, EVERY MULTIPLE DWELLING SHALL BE PROVIDED WITH HEAT OR THE EQUIPMENT OR FACILITIES THEREFOR. DURING THE MONTHS BETWEEN OCTOBER FIRST AND MAY THIRTY-FIRST, SUCH HEAT AND THE EQUIPMENT OR FACILITIES SHALL BE SUFFICIENT TO MAINTAIN THE MINIMUM TEMPERATURES REQUIRED BY LOCAL LAW, ORDINANCE, RULE OR REGULATION, IN ALL PORTIONS OF THE DWELLING USED OR OCCUPIED FOR LIVING PURPOSES PROVIDED, HOWEVER, THAT SUCH MINIMUM TEMPERATURES SHALL BE AS FOLLOWS: (A) SIXTY-EIGHT DEGREES FAHRENHEIT DURING THE HOURS BETWEEN SIX O'CLOCK IN THE MORNING AND TEN O'CLOCK IN THE EVENING, WHENEVER THE OUTDOOR TEMPERATURE FALLS BELOW FIFTY-FIVE DEGREES FAHRENHEIT, NOTWITHSTANDING THE PROVISIONS OF PARAGRAPH A OF SUBDIVISION FOUR OF SECTION THREE OF THIS CHAPTER, AND (B) AT LEAST FIFTY-FIVE DEGREES FAHRENHEIT DURING THE HOURS BETWEEN TEN O'CLOCK IN THE EVENING AND SIX O'CLOCK IN THE MORNING, WHENEVER THE OUTDOOR TEMPERATURE FALLS BELOW FORTY DEGREES FAHRENHEIT. NOTHING IN THIS SECTION SHALL BE DEEMED TO RELIEVE ANY OWNER OF THE DUTY OF PROVIDING CENTRALLY SUPPLIED OR OTHER APPROVED SOURCE OF HEAT PRIOR TO NOVEMBER FIRST, NINETEEN HUNDRED FIFTY-NINE IN ANY CASE WHERE SUCH HEAT IS REQUIRED BY THIS CHAPTER OR ANY OTHER LAW, ORDINANCE, RULE OR REGULATION TO BE SUPPLIED IN A DWELLING PRIOR TO SAID DATE. THE HEATING SYSTEM IN DWELLINGS USED FOR SINGLE ROOM OCCUPANCY SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF SECTION TWO HUNDRED FORTY-EIGHT.

2. THE PROVISIONS OF SUBDIVISION ONE SHALL NOT APPLY TO ANY DWELLING

(A) WHICH IS LOCATED IN A RESORT COMMUNITY AND IS RENTED OR OCCUPIED ON A SEASONAL BASIS BETWEEN APRIL FIFTEENTH AND OCTOBER FOURTEENTH DURING ANY CALENDAR YEAR AND IS NOT OCCUPIED FOR LIVING PURPOSES DURING THE REMAINDER OF SUCH YEAR, EXCEPT THAT OCCUPANCY OF ANY SUCH DWELLING BY THE FAMILY OF A CARETAKER THEREOF OR BY THE FAMILY OF THE OWNER THEREOF DURING THE REMAINDER OF THE YEAR SHALL BE PERMITTED; OR

(B) WHICH THE DEPARTMENT OF CITY PLANNING CERTIFIES IS IN AN AREA TO BE ACQUIRED FOR A PUBLIC IMPROVEMENT OR FOR DEVELOPMENT OR REDEVELOPMENT AND FOR WHICH (1) A REQUEST FOR ACQUISITION HAS BEEN SUBMITTED TO THE MAYOR BY A PUBLIC AGENCY OR (2) A PLAN FOR A DEVELOPMENT OR REDEVELOPMENT PROJECT HAS RECEIVED PRELIMINARY OR FIRST APPROVAL OF THE CITY PLANNING COMMISSION; OR

(C) FOR WHICH A DEMOLITION PERMIT HAS BEEN OR SHALL BE ISSUED BY THE MUNICIPALITY PURSUANT TO LOCAL LAW OR ORDINANCE.

3. THE EXEMPTION PROVIDED IN SUBDIVISIONS TWO (B) AND TWO (C) OF THIS SECTION SHALL BE VALID FOR A PERIOD OF SIX MONTHS AFTER THE DATE OF THE APPROVAL OF THE SLUM CLEARANCE OR URBAN RENEWAL PLAN OR THE DATE OF SUCH CERTIFICATION OR THE DATE OF THE ISSUANCE OF THE DEMOLITION PERMIT, AS THE CASE MAY BE, BUT SUCH EXEMPTION MAY BE EXTENDED FROM TIME TO TIME BY THE DEPARTMENT PROVIDED, HOWEVER, THAT SUCH EXEMPTION SHALL NOT EXTEND BEYOND NOVEMBER FIRST, NINETEEN HUNDRED SIXTY-ONE.

SEC. 80. CLEANLINESS.

1. THE OWNER SHALL KEEP ALL AND EVERY PART OF A MULTIPLE DWELLING, THE LOT ON WHICH IT IS SITUATED, AND THE ROOFS, YARDS, COURTS, PASSAGES, AREAS OR ALLEYS APPURTENANT THERETO, CLEAN AND FREE FROM VERMIN, DIRT, FILTH, GARBAGE OR OTHER THING OR MATTER DANGEROUS TO LIFE OR HEALTH.

2. THE OWNER OF EVERY MULTIPLE DWELLING OR PART THEREOF SHALL THOROUGHLY CLEANSE AND KEEP CLEAN AT ALL TIMES, TO THE SATISFACTION OF THE DEPARTMENT, EVERY PUBLIC OR SERVICE PART THEREOF, INCLUDING EVERY ROOM, PASSAGE, STAIR, FLOOR, WINDOW, DOOR, WALL, CEILING, WATER-CLOSET OR TOILET COMPARTMENT, CESSPOOL, DRAIN, HALL AND CELLAR IN SUCH PUBLIC OR SERVICE PART.

3. ALL CARPETS AND RUGS WHICH ARE PERMITTED IN ANY PUBLIC PART OF A MULTIPLE DWELLING SHALL BE TAKEN UP AND CLEANED BY THE OWNER AT LEAST ONCE A YEAR OR AS MUCH OFTENER AS THE DEPARTMENT SHALL DEEM NECESSARY.

4. THE INTERIOR SURFACES OF WALLS THROUGHOUT EVERY PART OF EVERY MULTIPLE DWELLING, WHETHER IN PUBLIC OR IN TENANT-OCCUPIED PARTS, SHALL BE PAINTED OR PAPERED AND THE CEILINGS KALSOMINED OR PAINTED BY THE OWNER. THE WALLS AND CEILINGS SHALL BE REKALSOMINED, REPAPERED OR REPAINTED BY THE OWNER WHENEVER NECESSARY TO KEEP THE SAID SURFACES IN A SANITARY CONDITION. NO WALL PAPER SHALL BE PLACED UPON SUCH A WALL OR CEILING SURFACE UNLESS ALL EXISTING WALL PAPER SHALL BE FIRST REMOVED THEREFROM AND SUCH WALL OR CEILING THOROUGHLY CLEANED AND REPAIRED.

5. ANY TENANT SHALL BE PUNISHABLE AS PROVIDED IN SECTION THREE HUNDRED FOUR FOR THE EXISTENCE OF CONDITIONS IN VIOLATION OF THE PROVISIONS OF THIS CHAPTER WITHIN HIS APARTMENT TO THE EXTENT THAT SUCH CONDITIONS ARE CAUSED BY HIM, BY MEMBERS OF HIS FAMILY OR BY HIS GUESTS, AND ARE UNDER HIS CONTROL; BUT THIS PROVISION SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OF ANY LIABILITY OR DUTY UNDER THIS SECTION, EXCEPT WHERE A VIOLATION IS CAUSED AND CONTINUED SOLELY BY THE TENANT OR THOSE UNDER HIS CONTROL.

6. EVERY DWELLING ERECTED AFTER JANUARY FIRST, NINETEEN HUNDRED FORTY-SEVEN, SHALL BE SO CONSTRUCTED AS TO BE RAT-PROOF. THE AGENCY OF A CITY AUTHORIZED BY LAW TO MAKE RULES SUPPLEMENTAL TO LAWS REGULATING CONSTRUCTION, MAINTENANCE, USE AND AREA OF BUILDINGS SHALL HAVE THE POWER TO MAKE RULES AND REGULATIONS TO SUPPLEMENT THE REQUIREMENTS OF THIS SUBDIVISION.

SEC. 81. RECEPTACLES FOR WASTE MATTER.

1. THE OWNER OF EVERY MULTIPLE DWELLING SHALL PROVIDE PROPER AND SUITABLE CONVENIENCES OR RECEPTACLES FOR ASHES, RUBBISH, GARBAGE, REFUSE AND OTHER WASTE MATTER AND SHALL ARRANGE FOR THE REMOVAL OF SUCH WASTE MATTER DAILY.

2. NO PERSON SHALL PLACE ASHES, GARBAGE, RUBBISH, FILTH, URINE OR FECAL MATTER IN ANY PLACE IN A MULTIPLE DWELLING OTHER THAN THE PLACE PROVIDED THEREFOR, OR KEEP ANY SUCH MATTER IN HIS APARTMENT OR UPON HIS PREMISES SUCH LENGTH OF TIME AS TO CREATE A NUISANCE AS DEFINED IN SECTION THREE HUNDRED NINE.

SEC. 82. PRIVACY.

IN EVERY APARTMENT OF THREE OR MORE ROOMS IN EVERY CLASS A MULTIPLE DWELLING ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED TWENTY-NINE, THERE SHALL BE ACCESS TO EVERY LIVING ROOM AND BEDROOM WITHOUT PASSING THROUGH ANY BEDROOM.

SEC. 83. JANITOR OR HOUSEKEEPER.

WHENEVER THERE ARE THIRTEEN OR MORE FAMILIES OCCUPYING ANY MULTIPLE DWELLING AND THE OWNER DOES NOT RESIDE THEREIN, THERE SHALL BE A JANITOR, HOUSEKEEPER OR SOME OTHER PERSON RESPONSIBLE ON BEHALF OF THE OWNER WHO SHALL RESIDE IN SAID DWELLING, OR WITHIN A DWELLING LOCATED WITHIN A DISTANCE OF TWO HUNDRED FEET FROM SAID DWELLING, AND HAVE CHARGE OF SUCH DWELLING, EXCEPT THAT WHERE TWO OR THREE MULTIPLE DWELLINGS ARE CONNECTED OR ADJOINING, ONE RESIDENT JANITOR SHALL BE SUFFICIENT. IN EVERY GARDEN-TYPE MAISONETTE DWELLING PROJECT ERECTED AFTER APRIL EIGHTEENTH, NINETEEN HUNDRED FIFTY-FOUR, ADEQUATE PERSONNEL SHALL BE PROVIDED FOR THE LAWFUL CARE AND MAINTENANCE OF SUCH PROJECT.

SEC. 84. CONSTRUCTION STANDARDS FOR THE CONTROL OF NOISE.

ON OR BEFORE JANUARY FIRST, NINETEEN HUNDRED SIXTY-NINE, THE DEPARTMENT SHALL FORMULATE, ADOPT, PROMULGATE AND THEREAFTER FROM TIME TO TIME AMEND STANDARDS OF SOUND RETARDATION FOR THE WALLS, PARTITIONS AND FLOORS AND CEILINGS BETWEEN APARTMENTS AND BETWEEN APARTMENTS AND PUBLIC SPACES SITUATED THEREIN BASED ON THE DIRECT MEASUREMENT OF SOUND TRANSMISSION LOSS DETERMINED IN DECIBELS FOR VARIOUS FREQUENCIES OR IN ACCORDANCE WITH THE ASTM SOUND TRANSMISSION CLASS SYSTEM OR IN ACCORDANCE WITH SUCH OTHER RECOGNIZED METHOD OR SYSTEM FOR MEASURING REDUCTION OF SOUND TRANSMISSION AS THE DEPARTMENT MAY DETERMINE TO BE APPROPRIATE. ANY CONSTRUCTION OF A MULTIPLE DWELLING COMMENCED AFTER JANUARY FIRST, NINETEEN HUNDRED SEVENTY SHALL COMPLY WITH THE STANDARDS PROMULGATED PURSUANT TO THIS SECTION IN EFFECT AT THE TIME OF COMMENCEMENT OF SUCH CONSTRUCTION.

DEPT OF BLDGS 121191245 Job Number
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New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Robert Silman Associates, DPC

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	06 JAN 2017	ISSUED TO DOB

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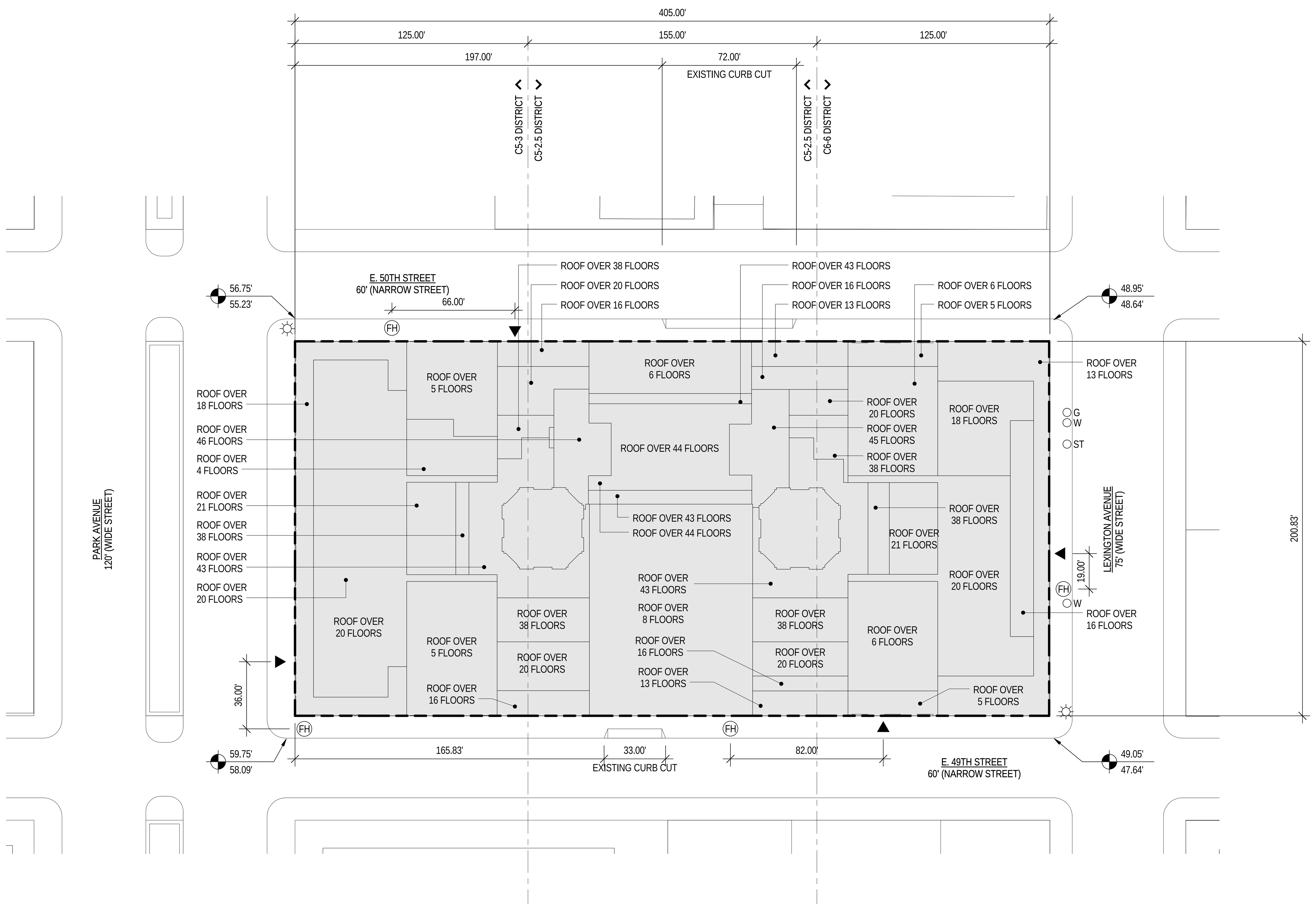

GENERAL INFORMATION

ADDRESS:	301 PARK AVENUE
BLOCK:	1304
LOT:	1
MAP NO.:	8D
ZONING DISTRICT:	C5-2.5, C5-3, C6-6, SPECIAL MIDTOWN DISTRICT
LANDMARK BUILDING:	YES ; LP-1812
CLASSIFICATION:	CLASS 1A
OCCUPANCY:	J-2
BUILDING HEIGHT:	617'
STORIES:	46
LOT SIZE:	405.00' x 200.83'
LOT COVERAGE:	100%; 81,337 SF
LOT OPEN SPACE:	0%; 0 SF
LOT AREA:	C5-2.5 = 31,129 SF C5-3 = 25,104 SF C6-6 = 25,104 SF TOTAL = 81,336 SF

LEGEND

▲	BUILDING ENTRANCE	T.O. CURB / B.O. CURB	SPOT ELEVATION
☼	STREET LIGHT		CURB CUT
(FH)	FIRE HYDRANT		EXISTING BUILDING
○G	UTILITY - GAS	— — —	LOT LINE
○ST	UTILITY - STEAM		
○W	UTILITY - WATER		

GENERAL NOTE:
NO PROPOSED CHANGES TO SITE PLAN. ALL ENTRANCES, UTILITIES, AND CURB CUTS EXISTING TO REMAIN.

3 PLOT PLAN

SCALE: 1/32" = 1'-0"

DWELLING UNIT SCHEDULE

LEVEL	UNITS
LEVEL 13	30
LEVEL 14	28
LEVEL 15	28
LEVEL 16	23
LEVEL 17	20
LEVEL 18	0
LEVEL 19	11
LEVEL 20	10
LEVEL 21	11
LEVEL 22	11
LEVEL 23	11
LEVEL 24	11
LEVEL 25	11
LEVEL 26	11
LEVEL 27	11
LEVEL 28	11
LEVEL 29	11
LEVEL 30	11
LEVEL 31	11
LEVEL 32	8
LEVEL 33	8
LEVEL 34	11
LEVEL 35	11
LEVEL 36	11
LEVEL 37	6
LEVEL 38	4
LEVEL 39	4
LEVEL 40	4
LEVEL 41	2
LEVEL 42	2
LEVEL 43	2
TOTAL (UNITS)	344

FLOOR AREA SCHEDULE

LEVEL	PRIMARY USE	EXISTING	PROPOSED		COMMERCIAL		RESIDENTIAL	
		GSF	GSF	ZFA	GSF	ZFA	GSF	ZFA
BASEMENT	HOTEL	81,100 SF	81,100 SF	81,100 SF	81,100 SF	81,100 SF	-	-
LEVEL 1	HOTEL	79,898 SF	79,898 SF	79,898 SF	79,898 SF	79,898 SF	-	-
LEVEL 2	HOTEL	59,324 SF	59,324 SF	59,324 SF	59,324 SF	59,324 SF	-	-
LEVEL 3	HOTEL	78,581 SF	78,581 SF	78,581 SF	78,581 SF	78,581 SF	-	-
LEVEL 4	HOTEL	52,024 SF	52,024 SF	52,024 SF	52,024 SF	52,024 SF	-	-
LEVEL 5	HOTEL	69,471 SF	69,471 SF	69,471 SF	69,471 SF	69,471 SF	-	-
LEVEL 6	HOTEL	58,839 SF	58,839 SF	58,839 SF	58,839 SF	58,839 SF	-	-
LEVEL 7	HOTEL	64,465 SF	64,465 SF	64,465 SF	64,465 SF	64,465 SF	-	-
LEVEL 8	HOTEL	64,465 SF	64,465 SF	64,465 SF	64,465 SF	64,465 SF	-	-
LEVEL 9	HOTEL	54,579 SF	54,579 SF	54,579 SF	54,579 SF	54,579 SF	-	-
LEVEL 10	HOTEL	54,579 SF	54,579 SF	54,579 SF	54,579 SF	54,579 SF	-	-
LEVEL 11	HOTEL	54,579 SF	54,579 SF	54,579 SF	54,579 SF	54,579 SF	-	-
LEVEL 12	HOTEL	54,579 SF	54,579 SF	54,579 SF	54,579 SF	54,579 SF	-	-
LEVEL 13	RESIDENTIAL	54,579 SF	54,579 SF	54,579 SF	-	-	54,579 SF	54,579 SF
LEVEL 14	RESIDENTIAL	49,448 SF	49,448 SF	49,448 SF	-	-	49,448 SF	49,448 SF
LEVEL 15	RESIDENTIAL	49,448 SF	47,670 SF	47,670 SF	-	-	47,670 SF	47,670 SF
LEVEL 16	RESIDENTIAL	49,448 SF	49,448 SF	49,448 SF	-	-	49,448 SF	49,448 SF
LEVEL 17	RESIDENTIAL	45,620 SF	45,620 SF	45,620 SF	-	-	45,620 SF	45,620 SF
LEVEL 18	RESIDENTIAL	45,620 SF	44,260 SF	44,260 SF	-	-	44,260 SF	44,260 SF
LEVEL 19	RESIDENTIAL	35,925 SF	35,925 SF	35,925 SF	-	-	35,925 SF	35,925 SF
LEVEL 20	RESIDENTIAL	42,563 SF	41,013 SF	41,013 SF	-	-	41,013 SF	41,013 SF
LEVEL 21	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 22	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 23	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 24	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 25	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 26	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 27	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 28	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 29	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 30	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 31	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 32	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 33	RESIDENTIAL	20,077 SF	18,180 SF	18,180 SF	-	-	18,180 SF	18,180 SF
LEVEL 34	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 35	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 36	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 37	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 38	RESIDENTIAL	20,077 SF	20,077 SF	20,077 SF	-	-	20,077 SF	20,077 SF
LEVEL 39	RESIDENTIAL	15,652 SF	15,652 SF	15,652 SF	-	-	15,652 SF	15,652 SF
LEVEL 40	RESIDENTIAL	15,652 SF	15,652 SF	15,652 SF	-	-	15,652 SF	15,652 SF
LEVEL 41	RESIDENTIAL	15,652 SF	15,652 SF	15,652 SF	-	-	15,652 SF	15,652 SF
LEVEL 42	RESIDENTIAL	15,652 SF	15,652 SF	15,652 SF	-	-	15,652 SF	15,652 SF
LEVEL 43	RESIDENTIAL	15,652 SF	15,652 SF	15,652 SF	-	-	15,652 SF	15,652 SF
LEVEL 44	MECHANICAL	9,762 SF	9,762 SF	9,762 SF	-	-	-	-
TOWER	MECHANICAL	11,006 SF	11,006 SF	11,006 SF	-	-	-	-
AREA TOTALS		1,659,548 SF	1,652,963 SF	1,652,963 SF	826,483 SF	826,483 SF	805,712 SF	805,712 SF

NOTE:
REFER TO Z-011 - Z-023 FOR AREA PLANS

2 SCHEDULES

ZONING ANALYSIS

SECTION	DESCRIPTION	ZONING CALCULATIONS: ALLOWABLE	ZONING CALCULATIONS: EXISTING	ZONING CALCULATIONS: PROPOSED	COMPLIANCE
13-10	PERMITTED OFF-STREET PARKING REQUIRED ACCESSORY PARKING	0 SPCS	0 SPCS	0 SPCS	COMPLIES
15-01	APPLICABILITY PROJECT LOCATED IN MANHATTAN DISTRICT 5 RESIDENTIAL CONVERSION PERMITTED IN MANHATTAN DISTRICT 5	GENERAL NOTE			COMPLIES; REFER TO 3/Z-001 FOR CONVERTED FLOOR AREA
15-023	NOTICE TO RESIDENTIAL TENANTS IN MIXED USE BUILDINGS	GENERAL NOTE			GENERAL NOTE; REFER TO 2/G-002 NOTE 51
15-111	NUMBER OF PERMITTED DWELLING UNITS LOT AREA: MAX PERMITTED RESIDENTIAL FLOOR AREA (FAR 10.0, PER ZR 81-241): PROPOSED RESIDENTIAL FLOOR AREA: 805712 SF < 813360 SF; EXCESS FLOOR AREA: R10 DISTRICT FACTOR (PER ZR 23-22): MAXIMUM NUMBER OF DWELLINGS (MAX. FL. AREA / DISTRICT FACTOR): 1197 UNITS > 344 UNITS; COMPLIES	81,336 SF 813,360 SF 805,712 SF 0 SF 680 1,197 UNTS	0 UNTS	344 UNTS	COMPLIES
15-112	LIGHT AND AIR PROVISIONS	GENERAL NOTE			COMPLIES; REFER TO A-000 SERIES FOR CALCULATIONS
15-12	OPEN SPACE EQUIVALENT AT LEAST 30% OF THE GROSS ROOF AREA OF A BUILDING CONTAINING 15 DWELLINGS SHALL BE USED FOR RECREATIONAL PURPOSES AND SHALL BE MADE ACESSIBLE TO ALL OCCUPANTS. FOR EACH ADDITIONAL DWELLING 100 SF OF ROOF AREA SHALL BE ADDED UP TO A MAXIMUM OF 50% OF THE GROSS ROOF AREA. 30% OF GROSS ROOF AREA (PROPOSED UNITS - 15 UNITS) x 100 SF PER UNIT 50% OF GROSS ROOF AREA 24401 SF + 32900 SF > 40668 MAX REQ'D LIMIT = 50% GROSS ROOF AREA PUBLIC ACCESSIBLE ROOF AREA 40668 SF REQ'D < 41150 SF PROVIDED; COMPLIES	24,401 SF 32,900 SF 40,668 SF 40,668 SF	0 SF	41,150 SF	COMPLIES; REFER TO Z-003
32-00	GENERAL PROVISIONS USE GROUPS PERMITTED IN A C5 DISTRICT USE GROUPS PERMITTED IN A C6-6 DISTRICT	1-6, 9, 11 1-12	2, 5, 6 2, 5, 6	2, 5, 6 2, 5, 6	COMPLIES
33-03	STREET TREES STREET TREES REQUIRED PER SECTION (D) RESIDENTIAL CONVERSION FLOOR AREA > 20% BUILDING FLOOR AREA STREET FRONTAGE: REQUIRED STREET TREES (STREET FRONTAGE / 25):	1,212 LF 48 TRS	0 TRS	48 TRS	COMPLIES; TREES TO BE PROVIDED OFFSITE. REFER TO ST-1.
33-281	EXCEPTED DISTRICTS NO REAR YARD REGULATIONS SHALL APPLY TO C5 AND C6 DISTRICTS	GENERAL NOTE			GENERAL NOTE; REFER TO Z-002
36-62	REQUIRED ACCESSORY OFF-STREET LOADING BERTHS MIN NUMBER OF REQUIRED LOADING BERTHS FOR EXISTING COMMERCIAL FLOOR AREA: BERTHS REQ'D FOR CHANGE OF USE FROM COMMERCIAL TO RESIDENTIAL BERTHS REQ'D FOR RESIDENTIAL USE: MIN NUMBER OF REQUIRED BERTHS 0 BERTHS < 2 BERTHS; COMPLIES	0 BRTH 0 BRTH 0 BRTH	2 BRTH 0 BRTH 2 BRTH	2 BRTH 0 BRTH 2 BRTH	COMPLIES; NO CHANGE TO EXISTING
36-71	BICYCLE PARKING SPACES REQ'D FOR CHANGE OF USE FROM COMMERCIAL TO RESIDENTIAL 1 SPACE PER 2 DWELLING UNITS MIN NUMBER OF REQUIRED SPACES FOR EXISTING COMMERCIAL TOTAL BICYCLE PARKING SPACES:	172 SPCS 0 SPCS 172 SPCS	0 SPCS	188 SPCS	COMPLIES; REFER TO 1/Z-007
81-021	APPLICABILITY OF UNDERLYING DISTRICT REGULATIONS MIDTOWN DISTRICT — DISTRICT WHOSE REGULATIONS APPLY C5-2.5 — C5-2 EXCEPT AS MODIFIED BY THE EXPRESS PROVISIONS OF THIS CHAPTER, THE REGULATIONS OF THE UNDERLYING DISTRICTS REMAIN IN EFFECT.	GENERAL NOTE			GENERAL NOTE; REFER TO 3/Z-001
81-211	MAXIMUM FLOOR AREA RATIO FOR NON-RESIDENTIAL OR MIXED BUILDINGS BASIC MAXIMUM FAR IN A C5-3 & C6-6 DISTRICT BASIC MAXIMUM FLOOR AREA = 50208 x 15 BASIC MAXIMUM FAR IN A C5-2.5 DISTRICT BASIC MAXIMUM FLOOR AREA = 31128 x 12 MAXIMUM PERMITTED FLOOR AREA 1126656 SF < 1659548 SF; EXISTING NON-COMPLIANCE 1659548 SF > 1652963 SF; DECREASE TO EXISTING NON-COMPLIANCE	15.00 753,120 SF 12.00 373,536 SF 1,126,656 SF	1,659,548 SF	1,652,963 SF	COMPLIES; DECREASE TO EXISTING NON-COMPLIANCE
81-241	MAXIMUM FLOOR AREA RATIOS FOR A RESIDENTIAL BUILDING OR THE RESIDENTIAL PORTION OF A MIXED BUILDING DISTRICT — MAXIMUM FAR ALL, EXCEPT C5-P — 10.0	GENERAL NOTE			GENERAL NOTE; RESIDENTIAL FLOOR AREA CONVERTED FROM EXISTING BUILIDNG REFER TO ZR 15-01
81-252	PERMITTED OBSTRUCTIONS	GENERAL NOTE			COMPLIES; REFER TO Z-004-Z-006
81-262	MAXIMUM HEIGHT OF FRONT WALL AT STREET LINE STREET — WIDTH E.49TH & 50TH STREET — 60 FT PARK AVENUE — 140 FT LEXINGTON AVENUE — 75 FT	60 FT 140 FT 75 FT	90 FT 150 FT 120 FT	90 FT 150 FT 120 FT	COMPLIES; NO CHANGE TO EXISTING NON-COMPLIANCE; REFER TO Z-004-Z-006
81-263	STANDARD SETBACK REQUIREMENTS BUILDINGS SHALL COMPLY WITH: A. TEN FOOT SETBACK REQUIREMENT B. GENERAL SETBACK PROVISIONS	GENERAL NOTE			COMPLIES; NO CHANGE TO EXISTING NON-COMPLIANCE; REFER TO Z-004-Z-006
81-264	ENCROACHMENTS AND COMPENSATING RECESSES	GENERAL NOTE			COMPLIES; NO CHANGE TO EXISTING NON-COMPLIANCE; REFER TO Z-004-Z-006
81-265	ENCROACHMENT LIMITATIONS BY LENGTH AND HEIGHT RULES	GENERAL NOTE			COMPLIES; NO CHANGE TO EXISTING NON-COMPLIANCE; REFER TO Z-004-Z-006
81-44	CURB CUT RESTRICTIONS MAX WIDTH ONE-WAY TRAFFIC — 15' TWO-WAY TRAFFIC — 25'	GENERAL NOTE			COMPLIES; NO CHANGE TO EXISTING CURB CUTS. REFER TO 1/Z-002.

1 ZONING ANALYSIS

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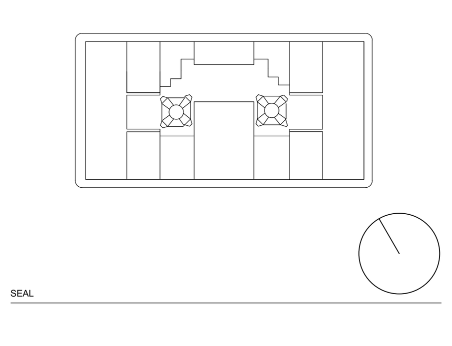

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STATE OF NEW YORK

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DRAWING TITLE

LOT PLANS, AREA SCHEDULE, AND ZONING CALCULATIONS

B-SCAN - DRAWING NUMBER

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PAGE NUMBER

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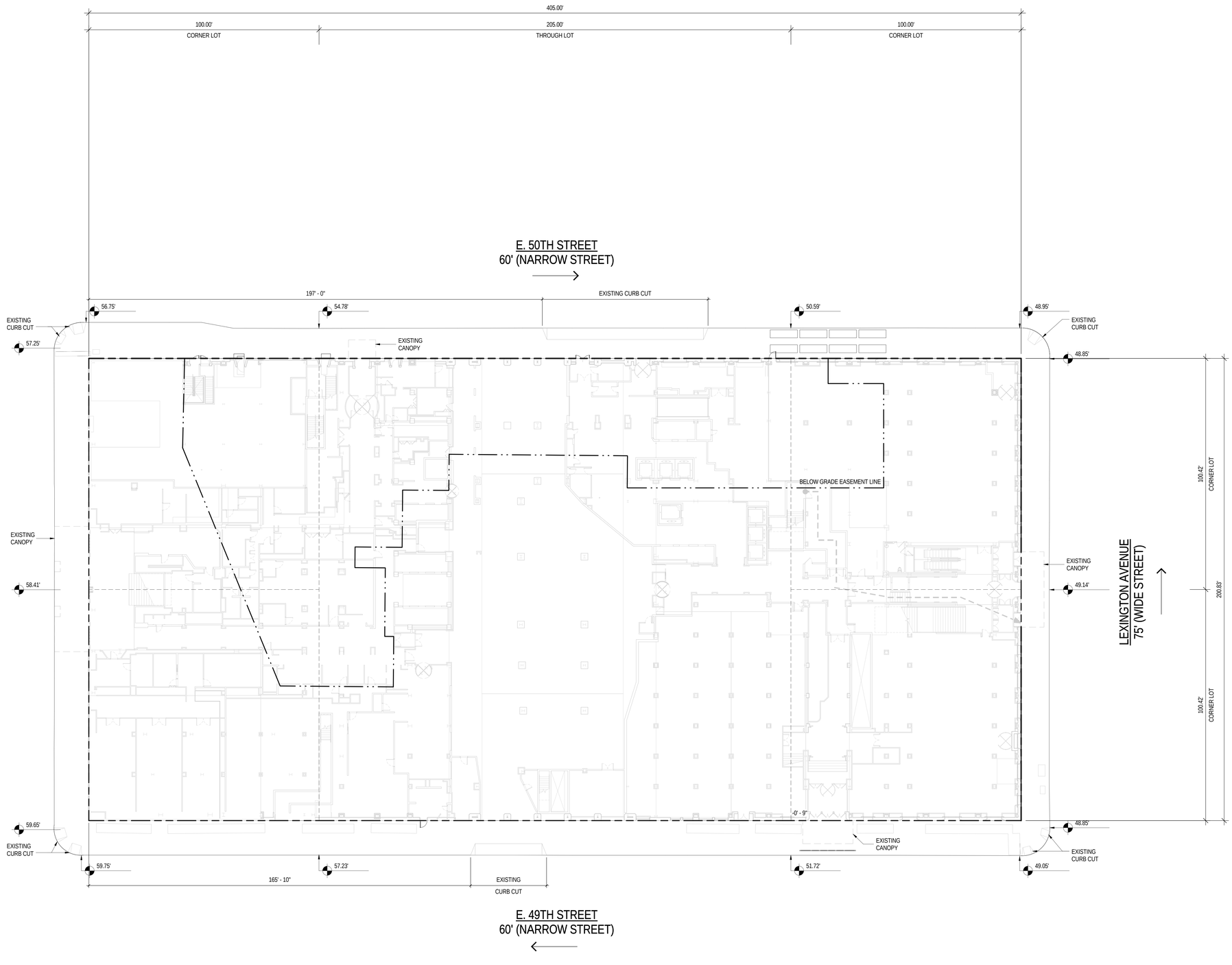

1 GROUND FLOOR PLAN
SCALE: 1/16" = 1'-0"

AVERAGE CURB LEVEL CALCULATIONS

CORNER LOT - PARK & 50TH ST

PARK AVE: $\frac{57.25' + 58.41'}{2}$ = 57.83'

50TH ST: $\frac{56.75' + 54.78'}{2}$ = 55.77'

OVERALL: $\frac{57.83' + 55.77'}{2}$ = 56.80'

CORNER LOT - PARK & 49TH ST

PARK AVE: $\frac{59.65' + 58.41'}{2}$ = 59.03'

49TH ST: $\frac{59.75' + 57.23'}{2}$ = 58.49'

OVERALL: $\frac{59.03' + 58.49'}{2}$ = 58.76'

THROUGH LOT - 50TH ST

50TH ST: $\frac{54.78' + 50.59'}{2}$ = 52.69'

THROUGH LOT - 49TH ST

49TH ST: $\frac{57.23' + 51.72'}{2}$ = 54.48'

CORNER LOT - LEXINGTON & 50TH ST

LEX AVE: $\frac{48.85' + 49.14'}{2}$ = 49.00'

50TH ST: $\frac{50.59' + 48.95'}{2}$ = 49.77'

OVERALL: $\frac{49.00' + 49.77'}{2}$ = 49.39'

CORNER LOT - LEXINGTON & 49TH ST

LEX AVE: $\frac{48.85' + 49.14'}{2}$ = 49.00'

49TH ST: $\frac{49.05' + 51.72'}{2}$ = 50.39'

OVERALL: $\frac{50.39' + 49.00'}{2}$ = 49.70'

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GROUND FLOOR PLAN

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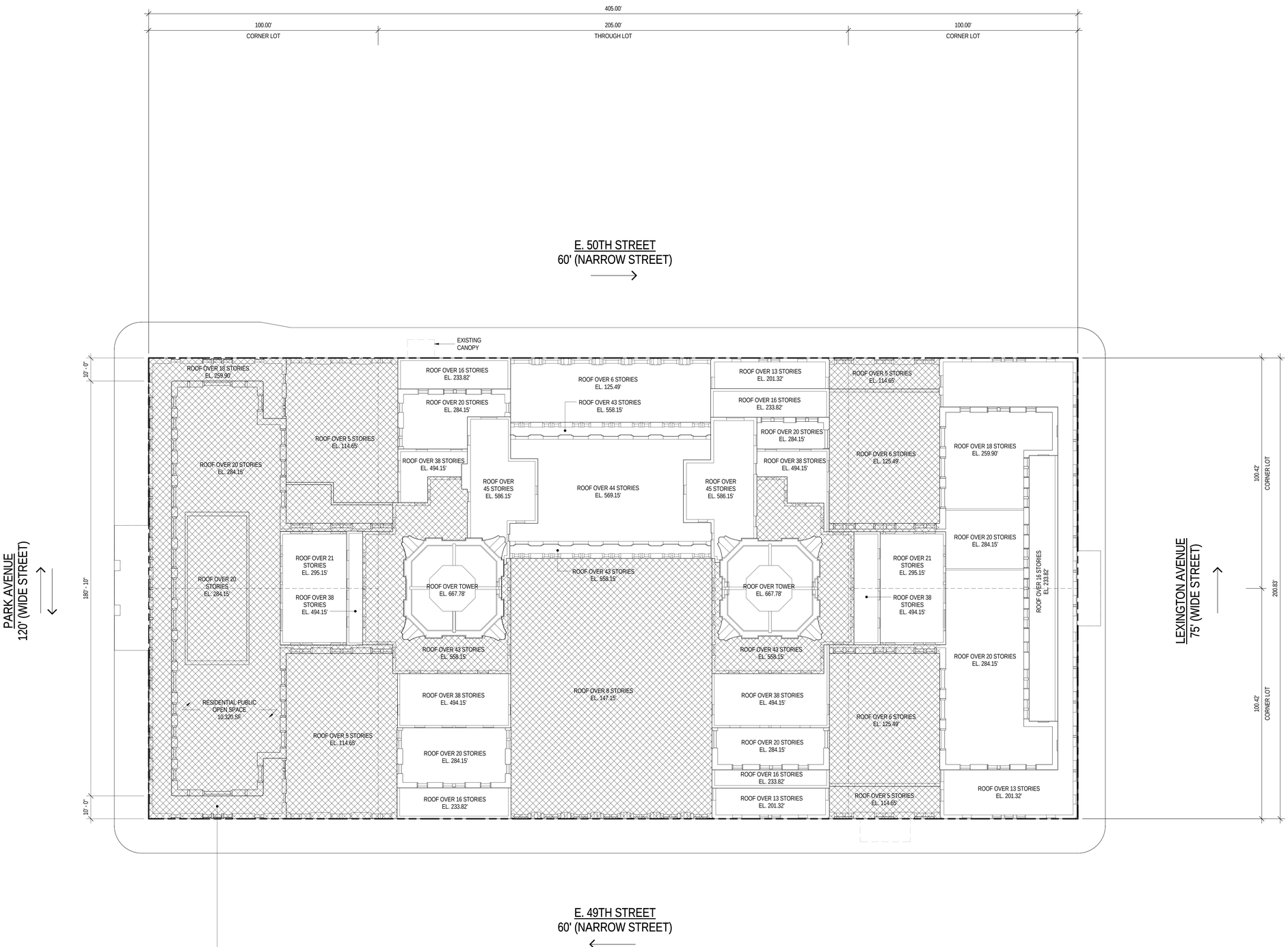

OPEN SPACE EQUIVALENT
41,150 SF

ZR 15-12 OPEN SPACE EQUIVALENT

AT LEAST 30 PERCENT OF THE GROSS ROOF AREA OF A BUILDING CONTAINING 15 DWELLING UNITS SHALL BE PROVIDED FOR RECREATIONAL USE. FOR EACH ADDITIONAL DWELLING UNIT, 100 SQUARE FEET OF ADDITIONAL ROOF AREA SHALL BE PROVIDED FOR RECREATIONAL USE, UP TO A MAXIMUM OF 50 PERCENT OF THE GROSS ROOF AREA. THIS RECREATIONAL AREA SHALL BE ACCESSIBLE TO ALL THE OCCUPANTS OF SAID BUILDING AND THEIR GUESTS. NO FEES SHALL BE CHARGED TO THE OCCUPANTS OR THEIR GUESTS. THE PROVISIONS OF THIS SECTION MAY BE MODIFIED PURSUANT TO SECTION 15-30.

REQUIRED
30% OF GROSS ROOF AREA: (81,336 SF X 0.30) = 24,401 SF
(344 UNITS - 15 UNITS) X 100 SF PER UNIT = 32,900 SF
(24,401 SF + 32,900 SF) > 50% TOTAL SF OF ROOF AREA (81,336 SF X 0.50) 40,668 SF
MAX REQUIRED LIMIT = 50% TOTAL ROOF AREA = 40,668 SF REQUIRED OPEN SPACE

PROVIDED
41,150 SF OF OPEN SPACE EQUIVALENT

COMPLIANCE
COMPLIES

NOTES
AREAS INCLUDE: TERRACES, COPING, RAILING, PARAPETS, AND GLASS ROOF AREAS.

1 ROOF PLAN
SCALE: 1/16" = 1'-0"

LEGEND

- STREET LINE
- SETBACK LINE
- ZONING LOT LINE
- OPEN SPACE EQUIVALENT

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ROOF PLAN

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GENERAL NOTE:
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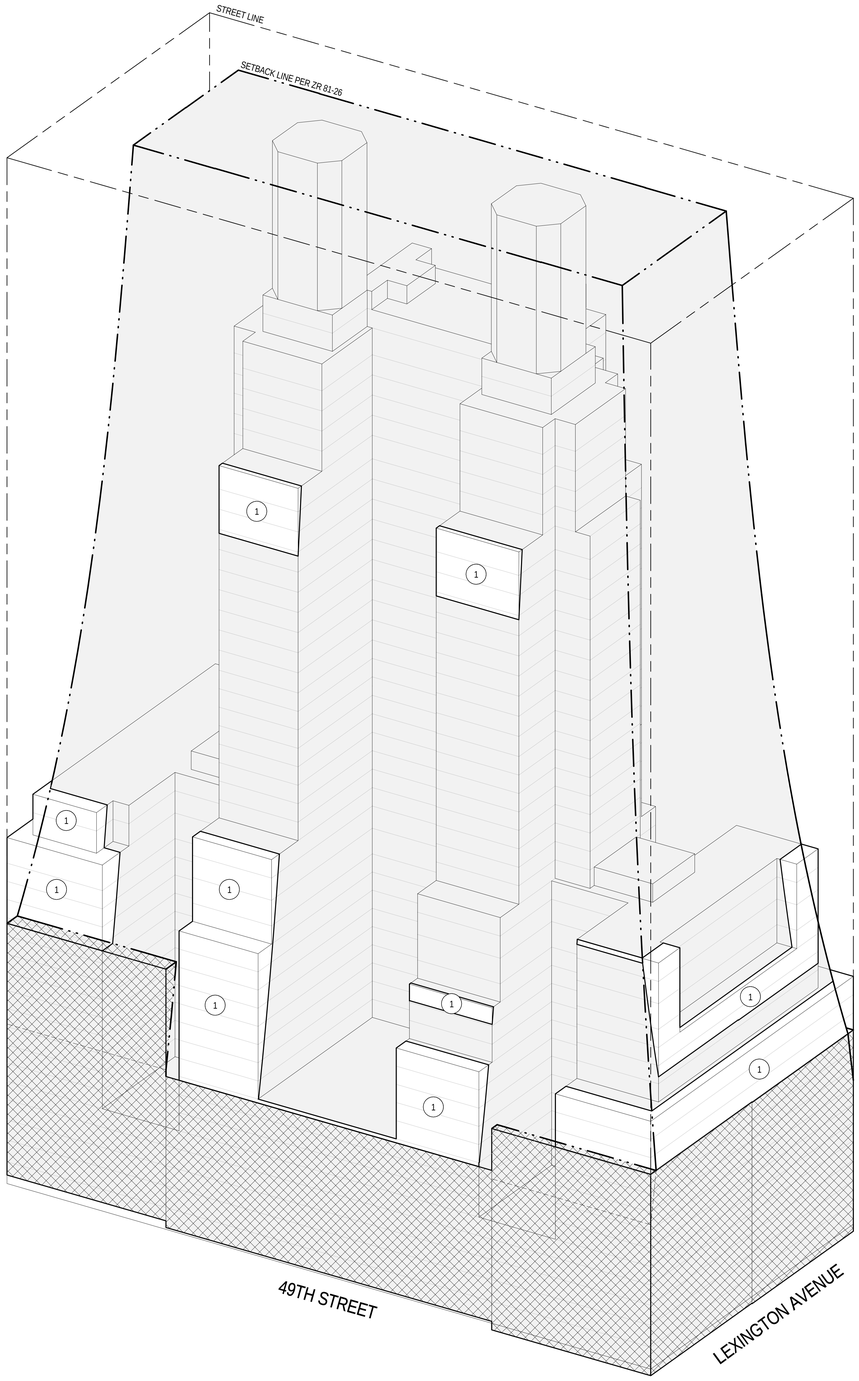
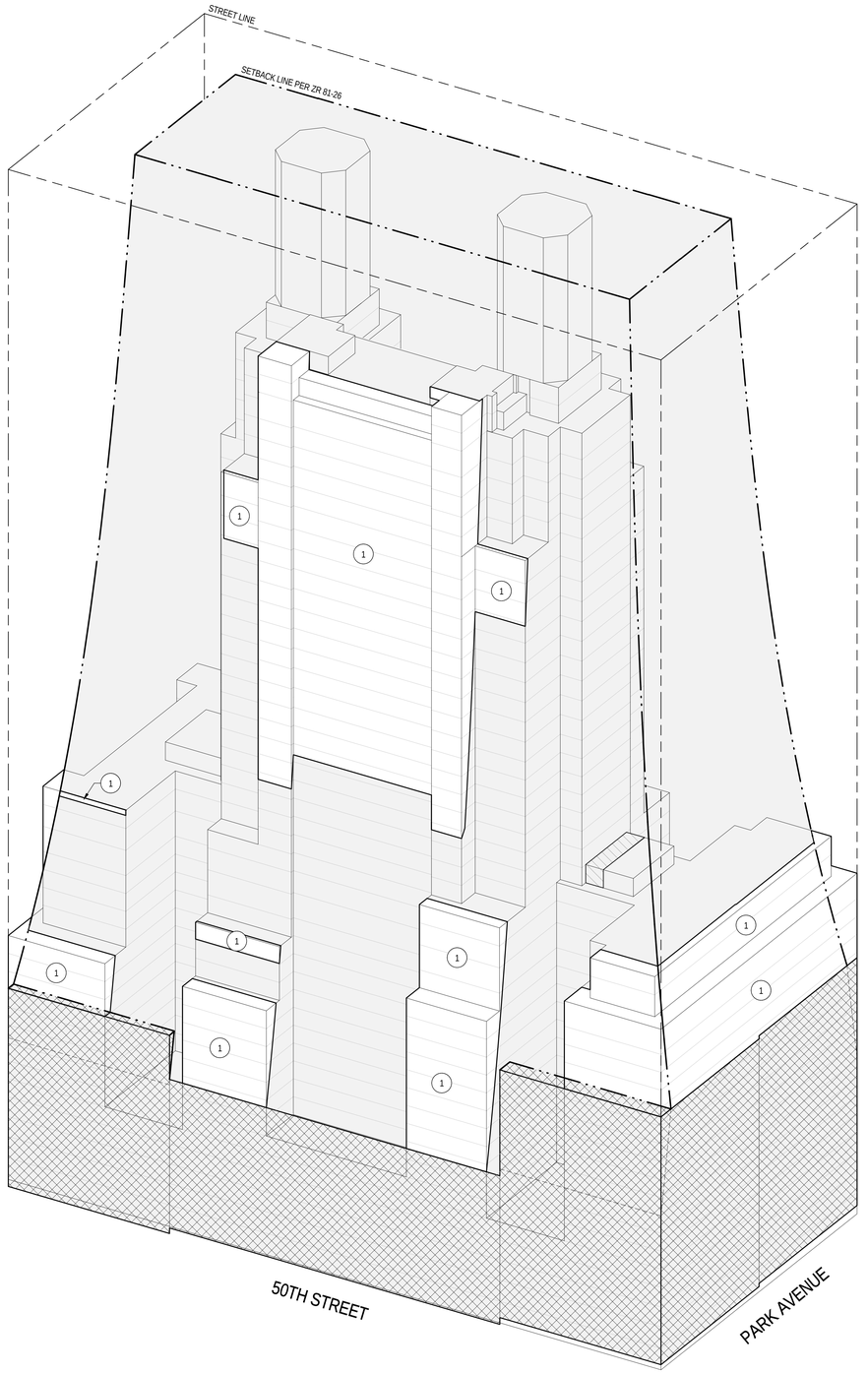


2 ZONING AXON - SOUTH
SCALE: 1/32" = 1'-0"

GENERAL NOTE:
REFER T0 Z-005 FOR ADDITIONAL NOTES



1 ZONING AXON - NORTH
SCALE: 1/32" = 1'-0"

LEGEND

- STREET LINE
- SETBACK LINE
- ZONING LOT LINE
- BULK SETBACK ENVELOPE PER ZR 81-26
- PERMITTED STREET WALL
- EXISTING BULK
- PROPOSED BULK
- PROPOSED PERMITTED OBSTRUCTION

KEYED NOTES

1. EXISTING NON-COMPLIANCE

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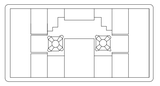

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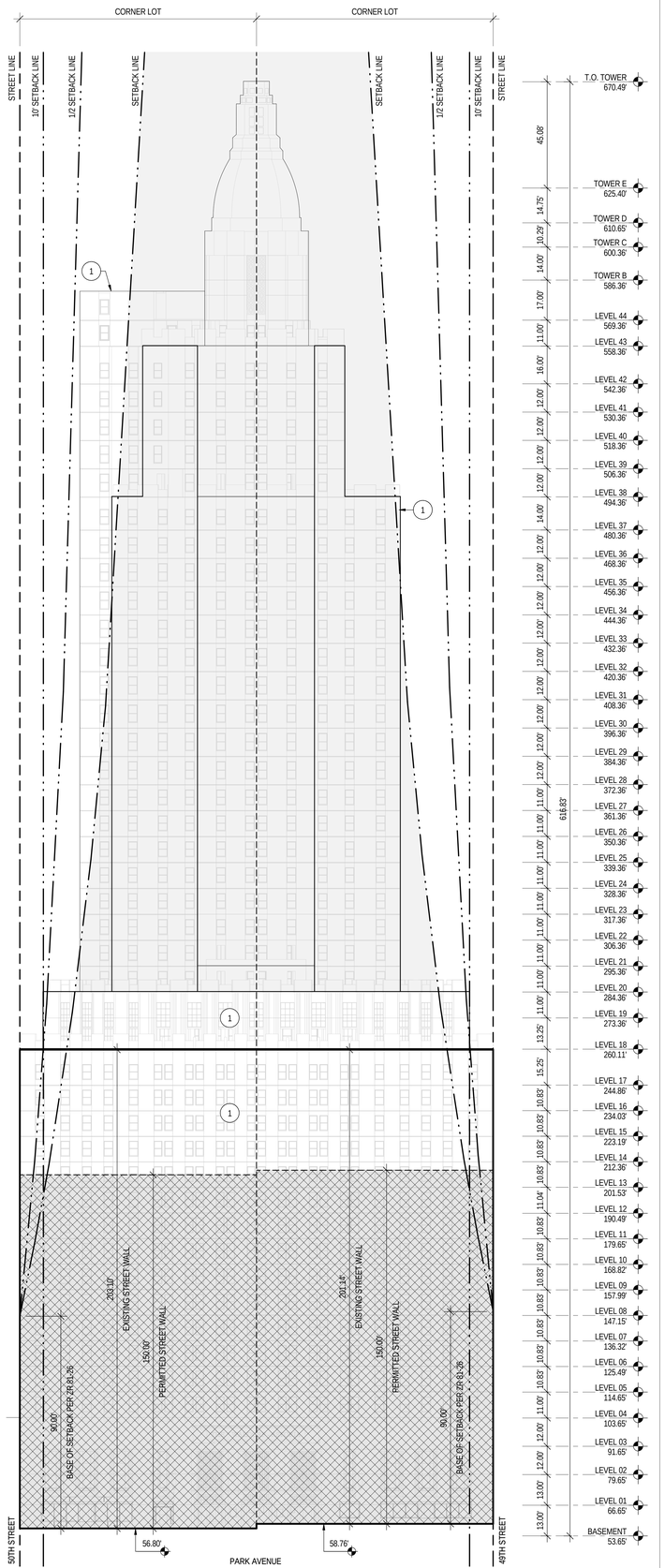
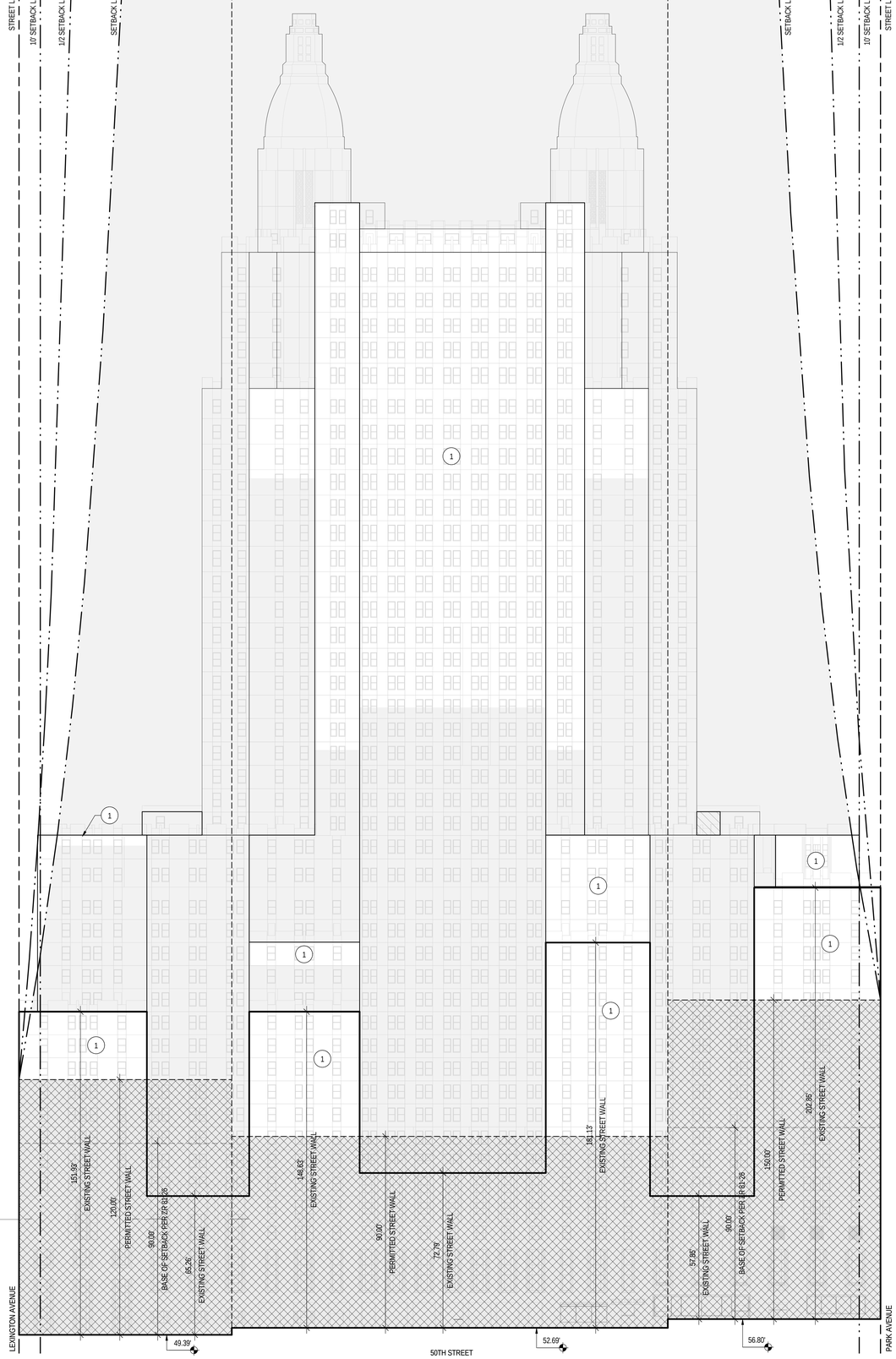
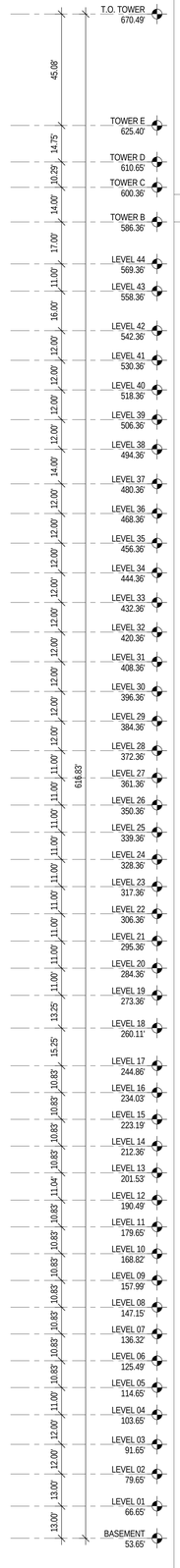


2 EXTERIOR ELEVATION WEST

SCALE: 3/64" = 1'-0"





1 EXTERIOR ELEVATION NORTH

SCALE: 3/64" = 1'-0"

LEGEND

- STREET LINE
- SETBACK LINE
- ZONING LOT LINE
- BULK SETBACK ENVELOPE PER ZR 81-26
- PERMITTED STREET WALL
- EXISTING BULK
- PROPOSED BULK
- PROPOSED PERMITTED OBSTRUCTION

KEYED NOTES

1. EXISTING NON-COMPLIANCE

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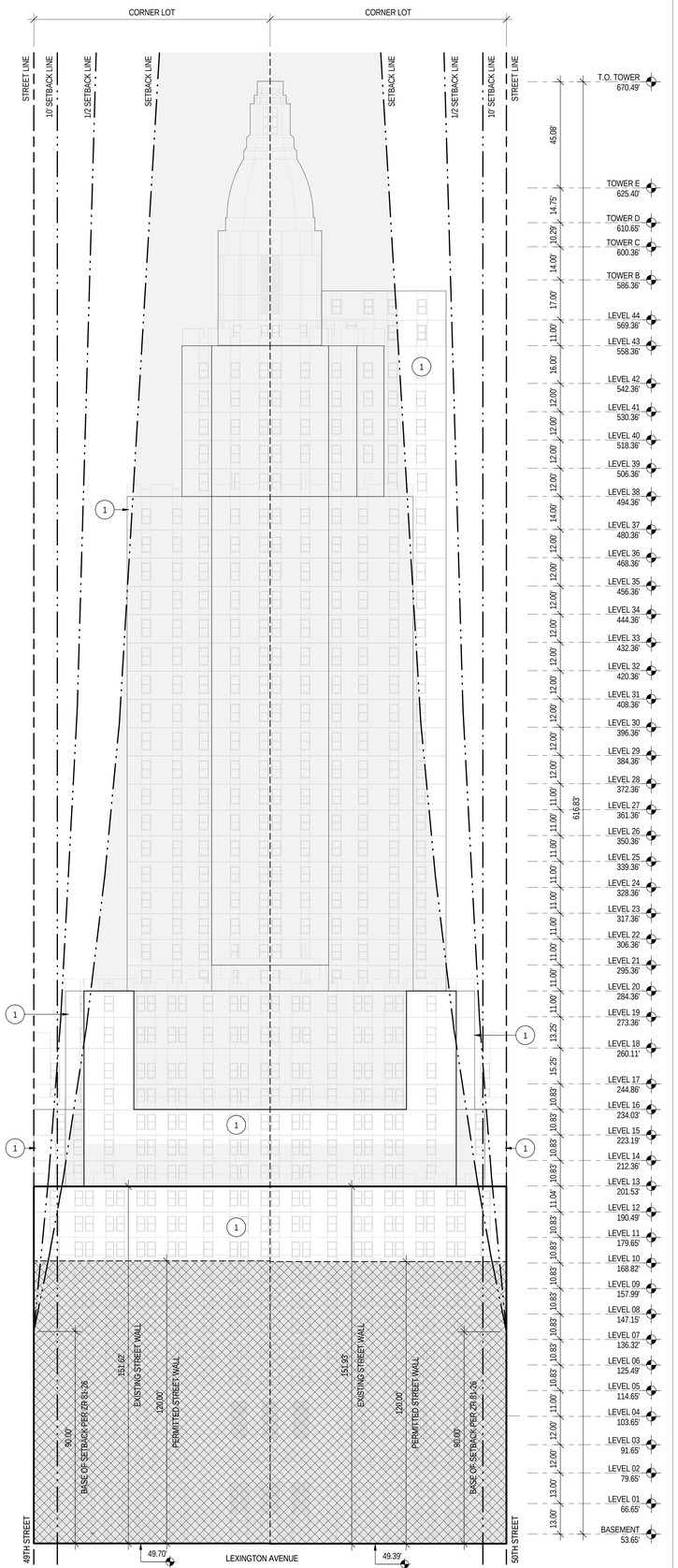
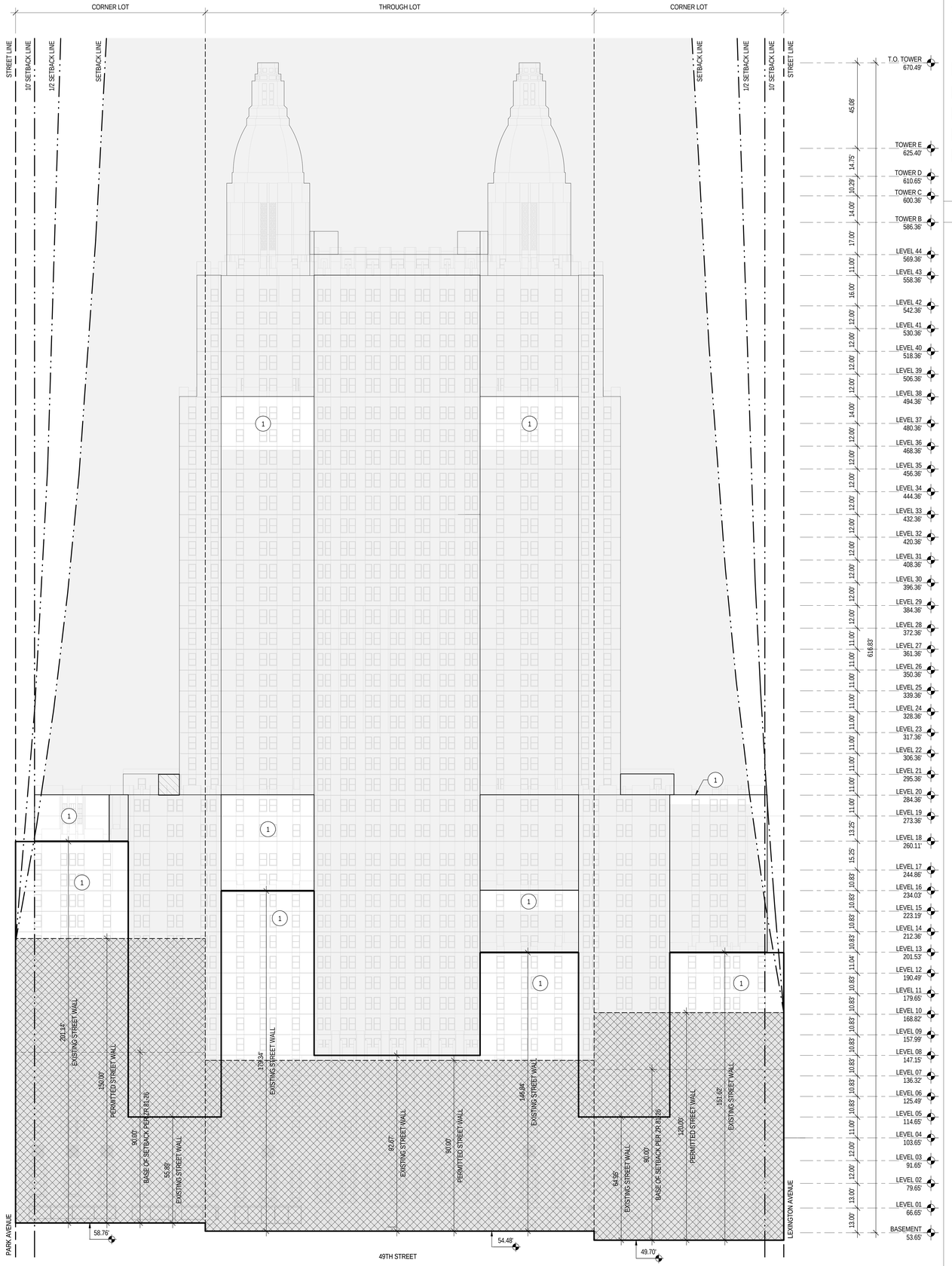


2 EXTERIOR ELEVATION EAST

SCALE: 3/64" = 1'-0"



1 EXTERIOR ELEVATION SOUTH

SCALE: 3/64" = 1'-0"

LEGEND

- STREET LINE
- SETBACK LINE
- ZONING LOT LINE
- BULK SETBACK ENVELOPE PER ZR 81-26
- PERMITTED STREET WALL
- EXISTING BULK
- PROPOSED BULK
- PROPOSED PERMITTED OBSTRUCTION

KEYED NOTES

1. EXISTING NON-COMPLIANCE

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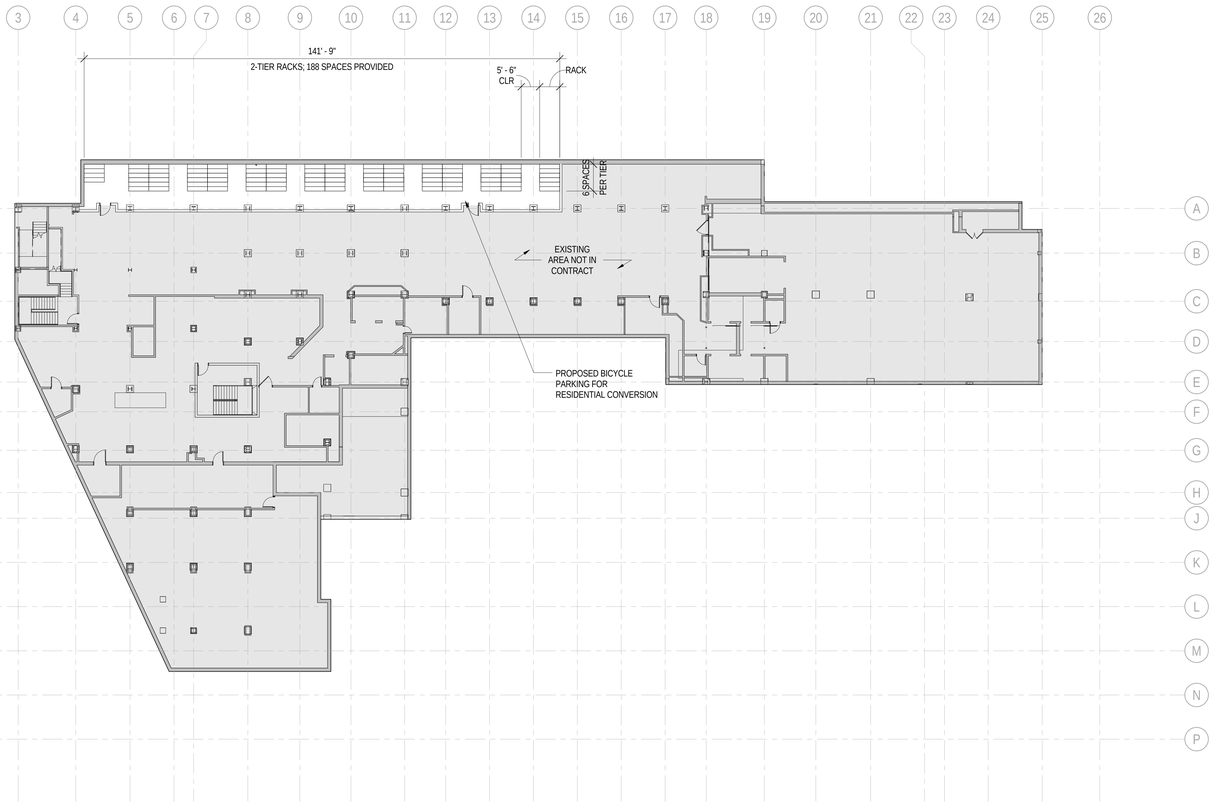
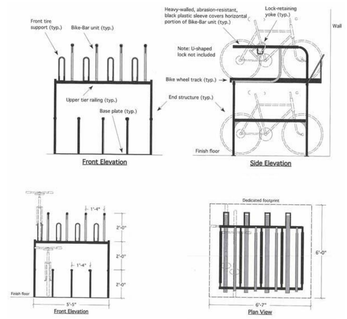


1 CELLAR - BIKE PARKING
SCALE: 1/16" = 1'-0"

BDDF-8.1 6 BIKE DOUBLE DECKER FRAMEWORK: 2-TIER BIKE RACK FOR 8 BIKES



ORDERING INFORMATION

MODEL NO.	LENGTH	CAPACITY
BDDF-4.1 6	2' 11"	4
BDDF-6.1 6	4' 3"	6
BDDF-8.1 6	5' 7"	8

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LOADING BERTHS, PARKING, AND BIKE STORAGE

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LEVEL 1	
EXISTING FLOOR AREA	79,898 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	79,898 SF

2 LEVEL 01 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"

BASEMENT	
EXISTING FLOOR AREA	81,100 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	81,100 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A — AREA NAME; 150 SF — FLOOR AREA; AREA TAG

1 BASEMENT - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"

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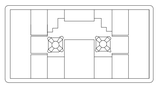

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FLOOR AREA REMOVALS AND ENLARGEMENTS

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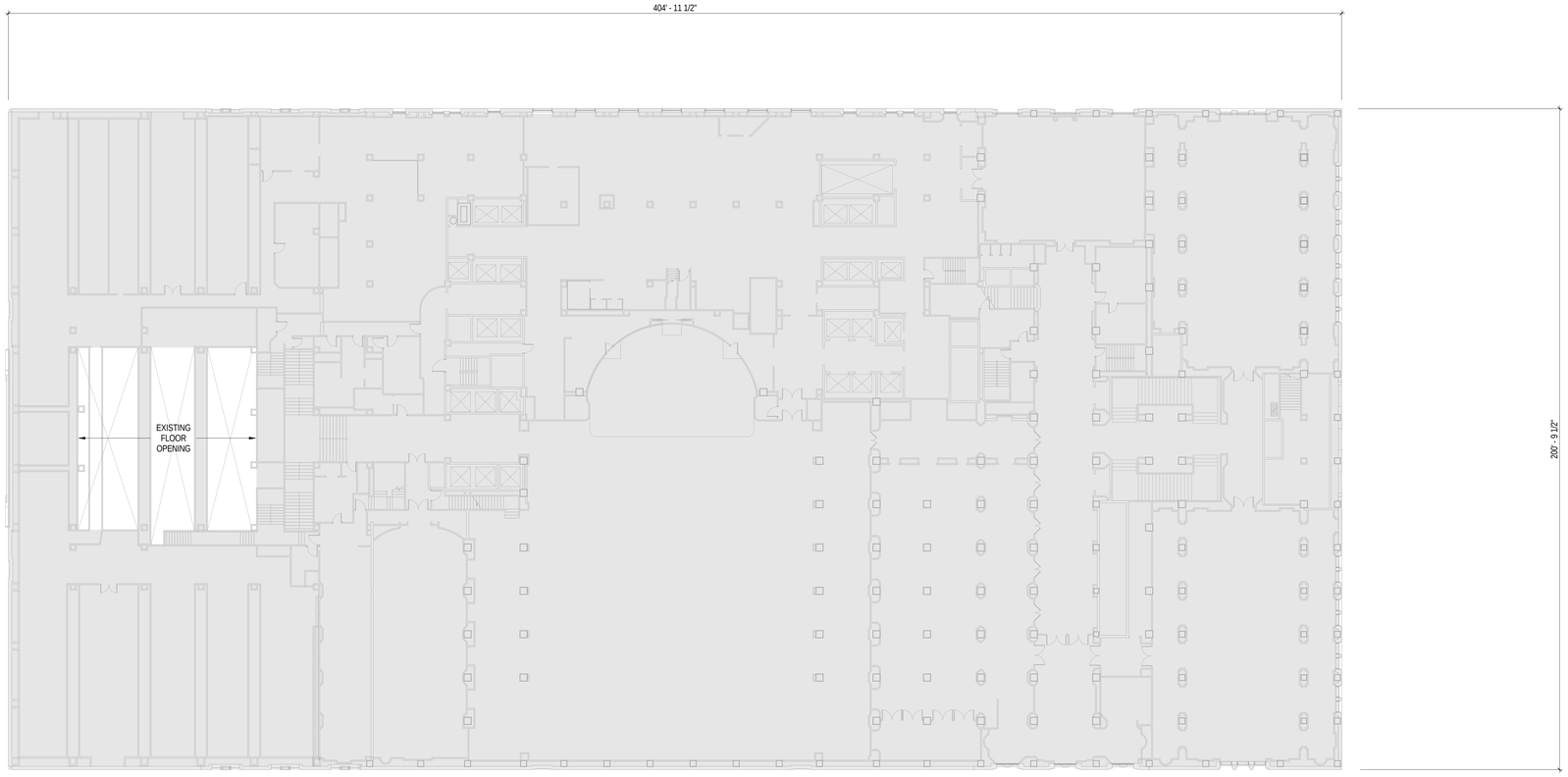
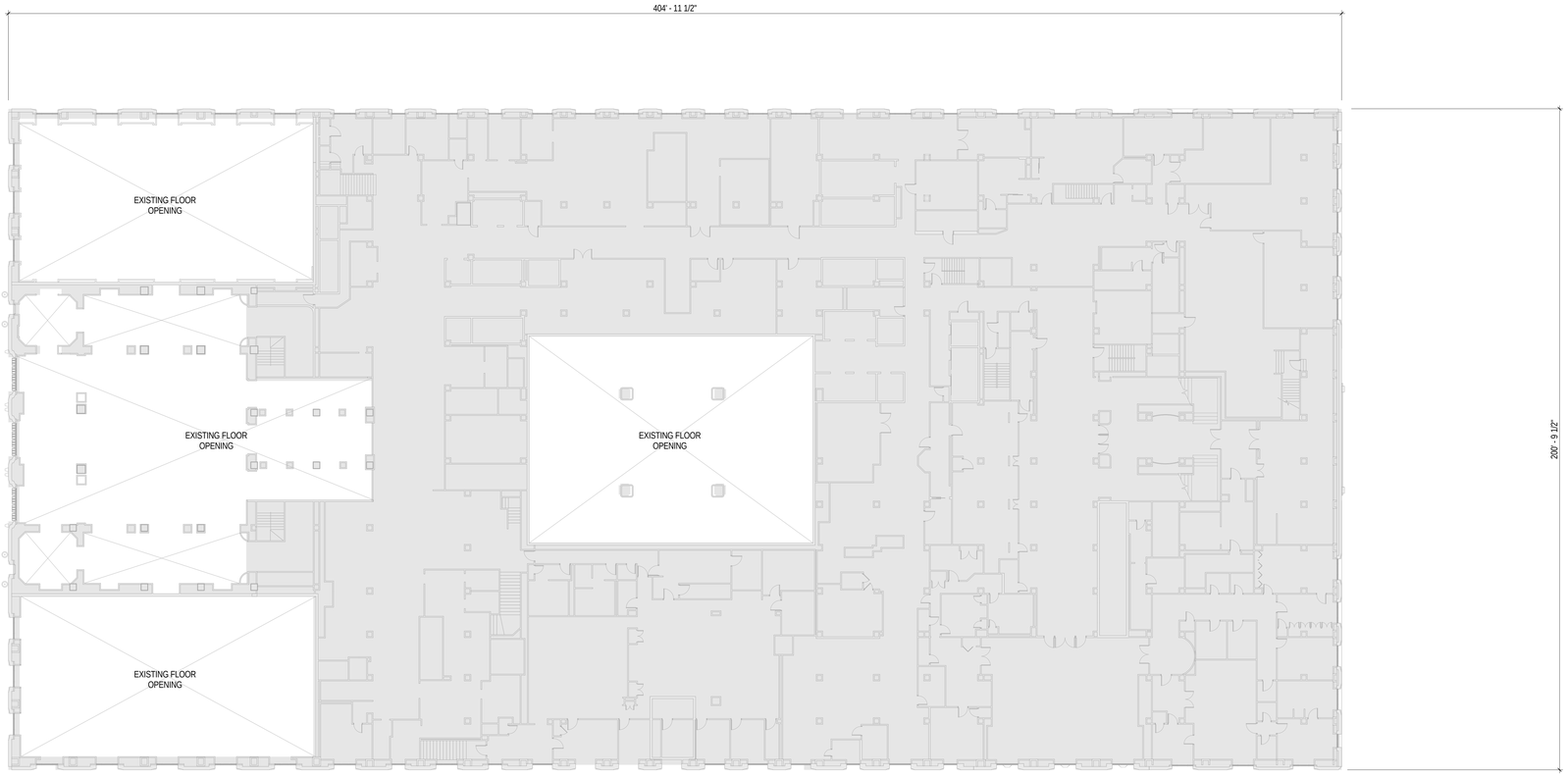


LEVEL 3	
EXISTING FLOOR AREA	78,581 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	78,581 SF

2 LEVEL 03 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"



LEVEL 2	
EXISTING FLOOR AREA	59,324 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	59,324 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT

A — AREA NAME
150 SF — FLOOR AREA
AREA TAG

1 LEVEL 02 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"

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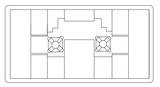

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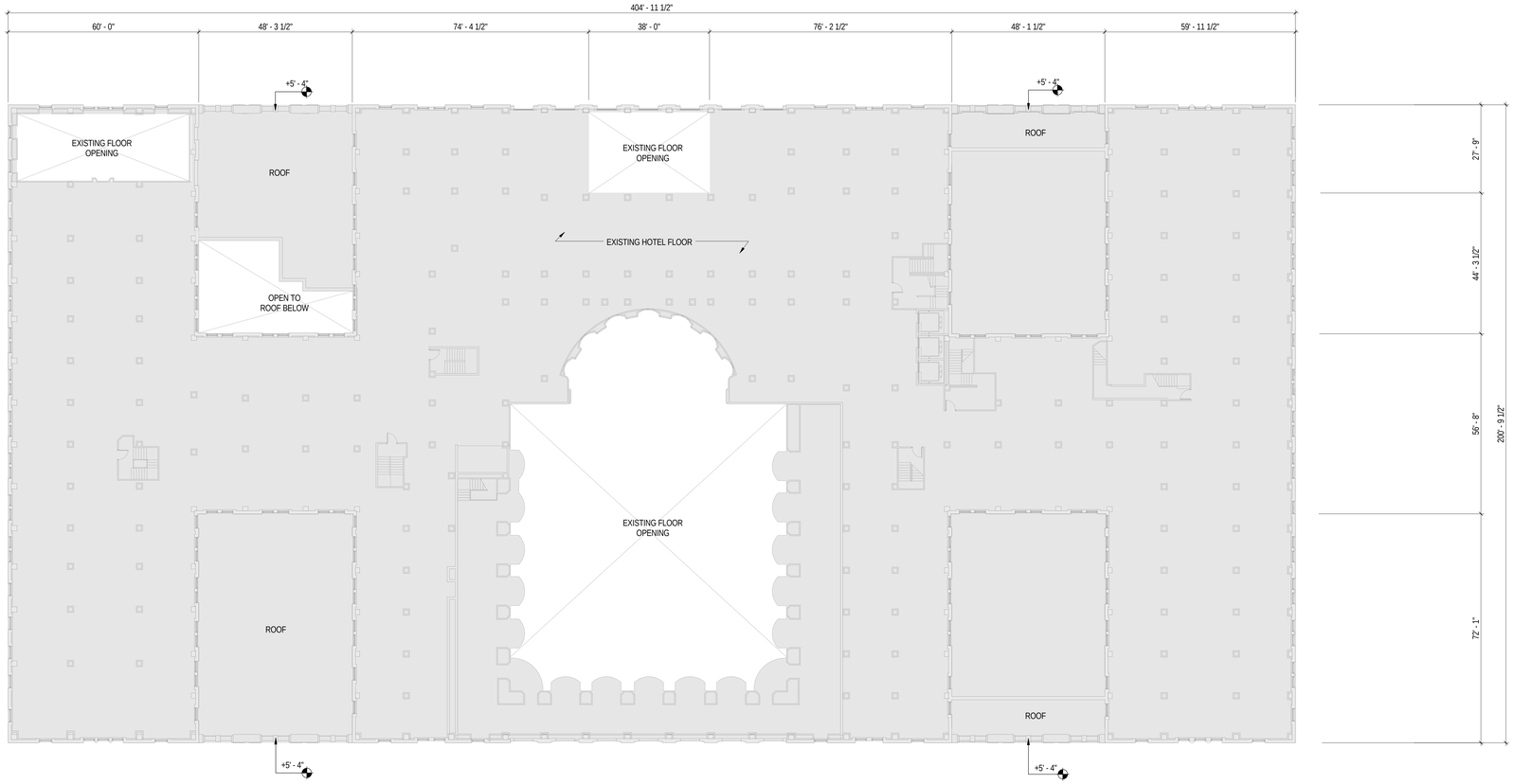
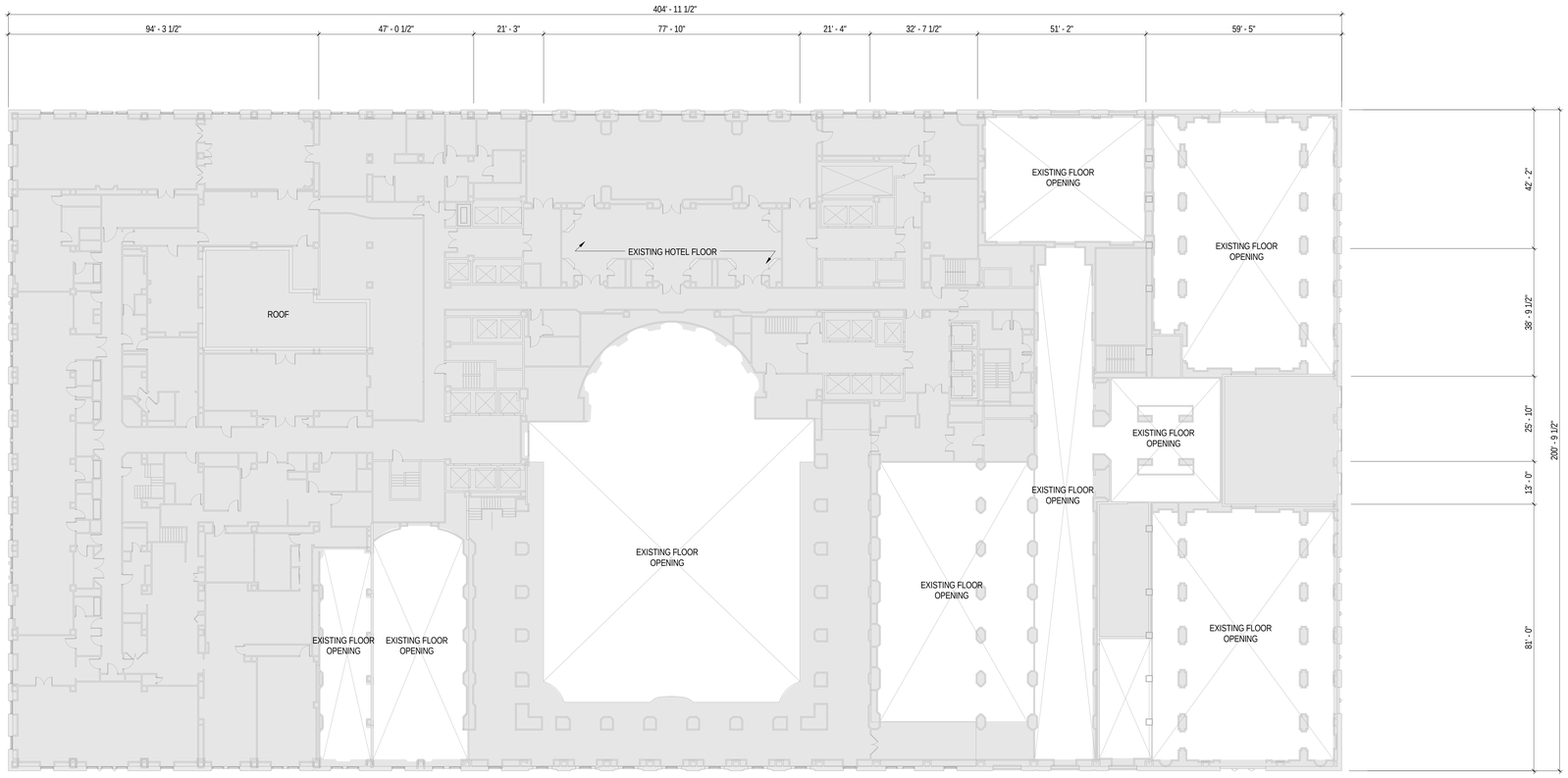


LEVEL 5	
EXISTING FLOOR AREA	69,471 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	69,471 SF

2 LEVEL 05 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"



LEVEL 4	
EXISTING FLOOR AREA	52,024 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	52,024 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A / 150 SF — AREA NAME / FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 LEVEL 04 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"

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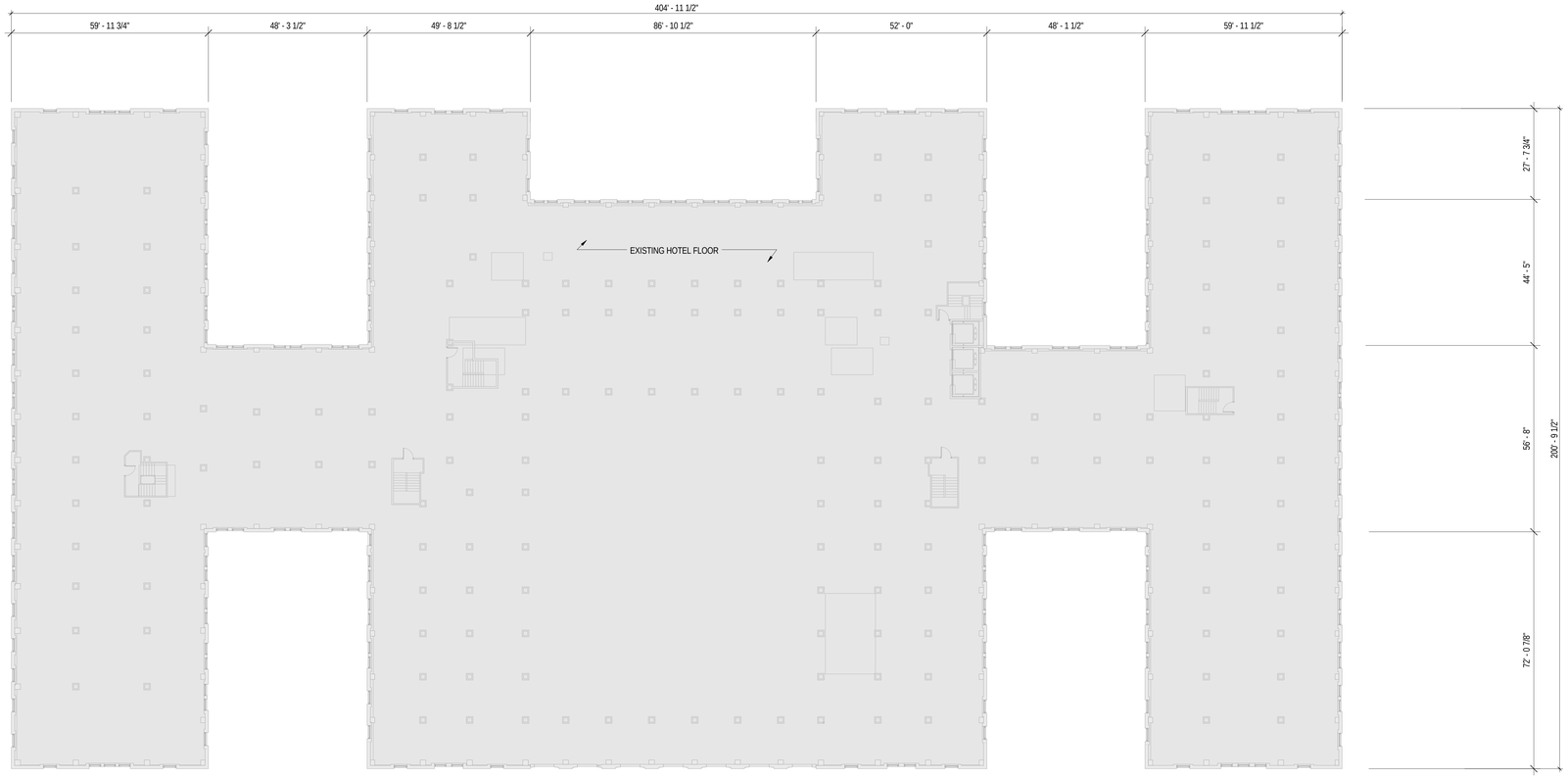
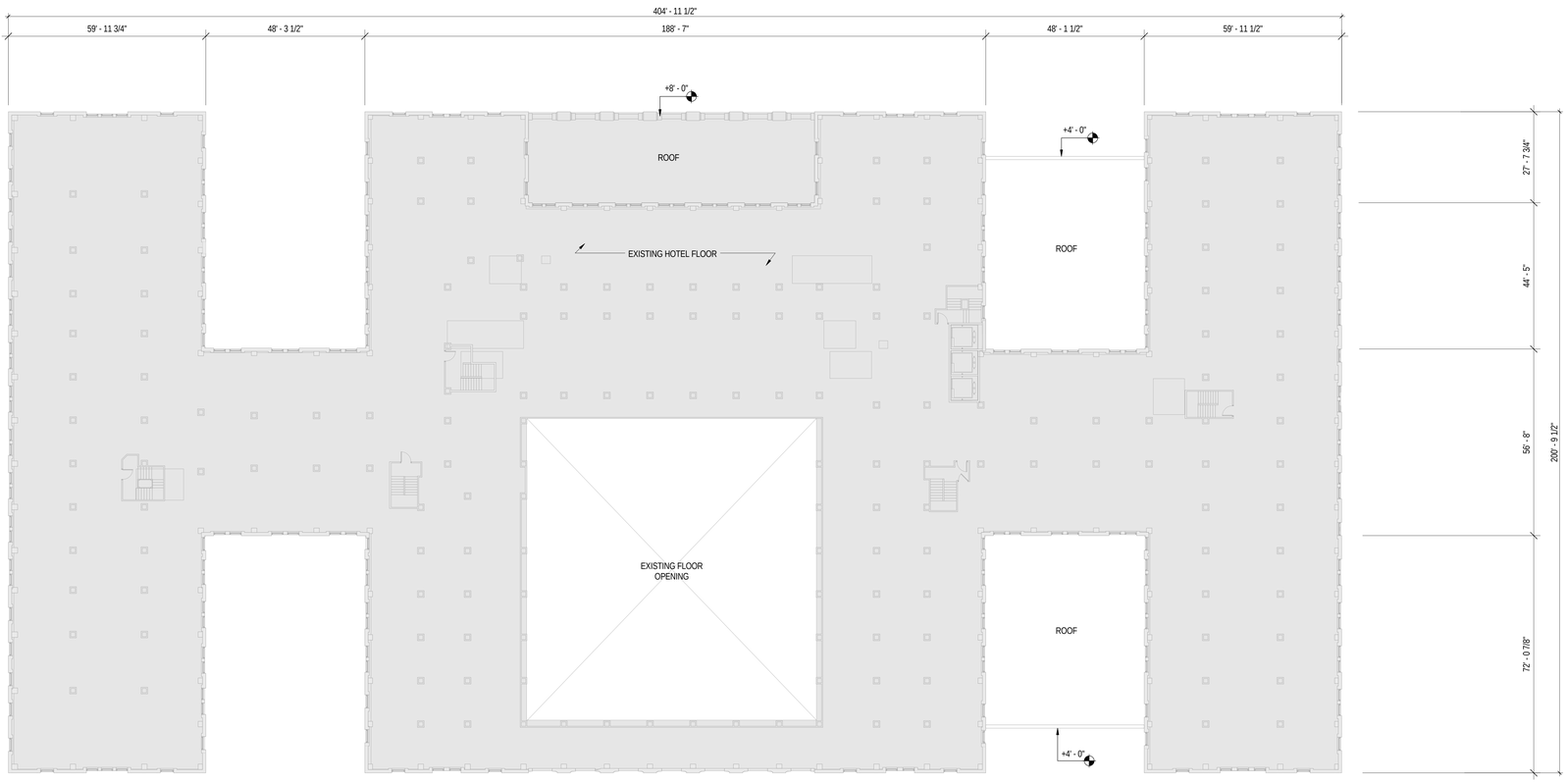


LEVEL 7	
EXISTING FLOOR AREA	64,465 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	64,465 SF

2 LEVEL 07 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"



LEVEL 6	
EXISTING FLOOR AREA	58,839 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	58,839 SF

1 LEVEL 06 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A — AREA NAME; 150 SF — FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

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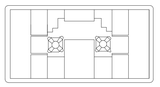

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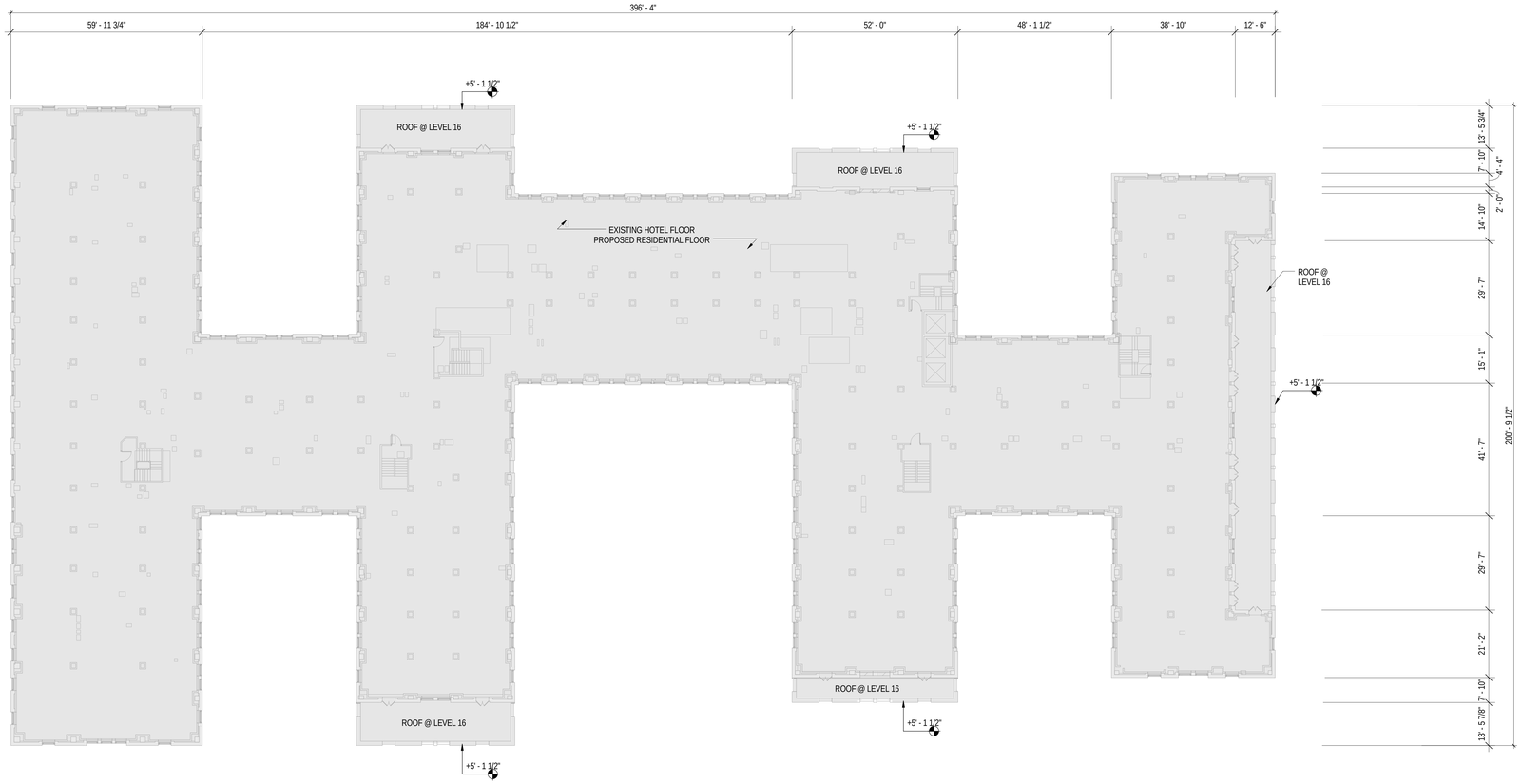
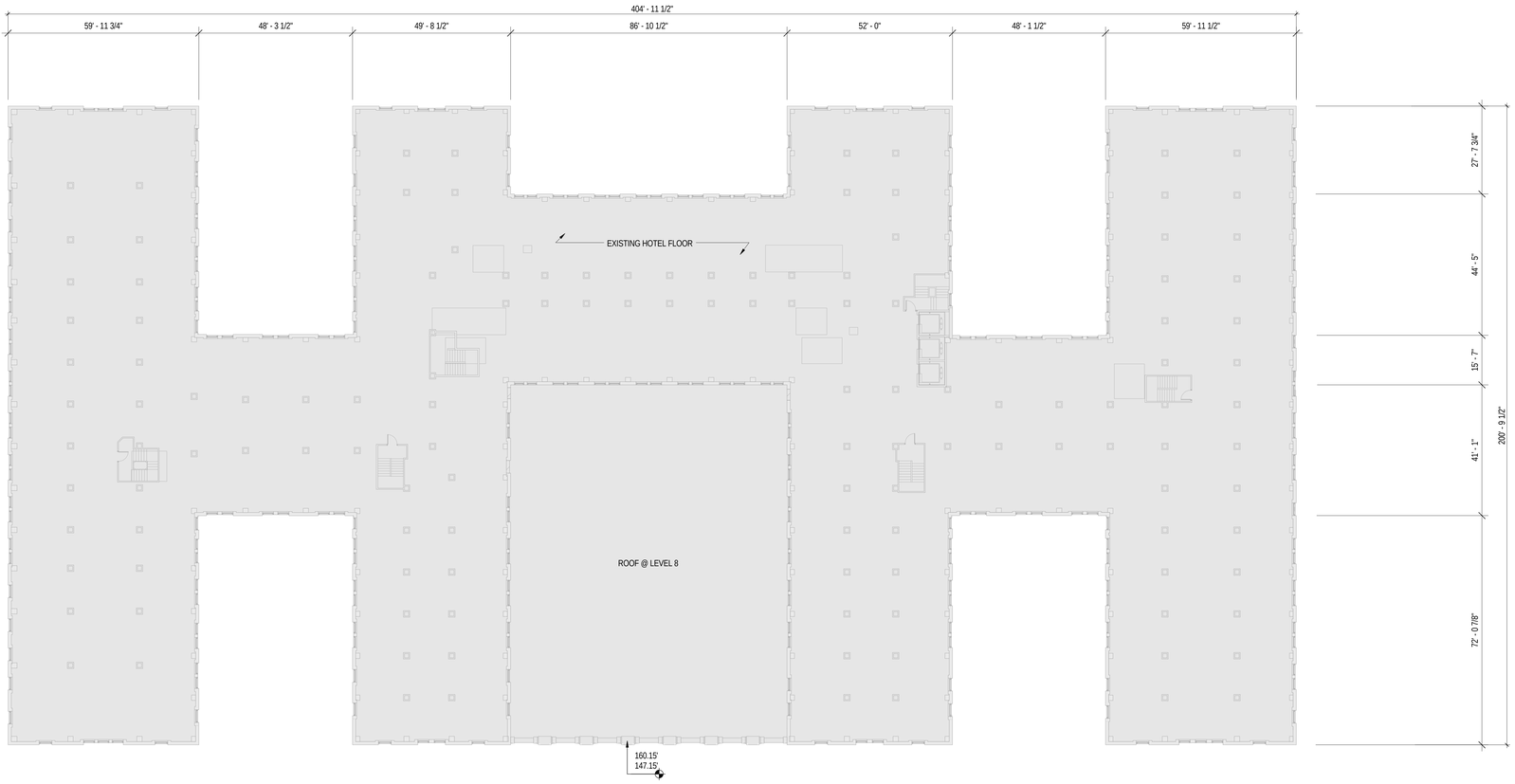


LEVEL 16	
EXISTING FLOOR AREA	49,448 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	49,448 SF

LEVEL 17	
EXISTING FLOOR AREA	45,620 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	45,620 SF

2 LEVEL 16-17 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"



LEVEL 8	
EXISTING FLOOR AREA	64,465 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	64,465 SF

LEVEL 9-12	
EXISTING FLOOR AREA	54,579 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	54,579 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A / 150 SF — AREA NAME / FLOOR AREA (AREA TAG)
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 LEVEL 08 -12 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"

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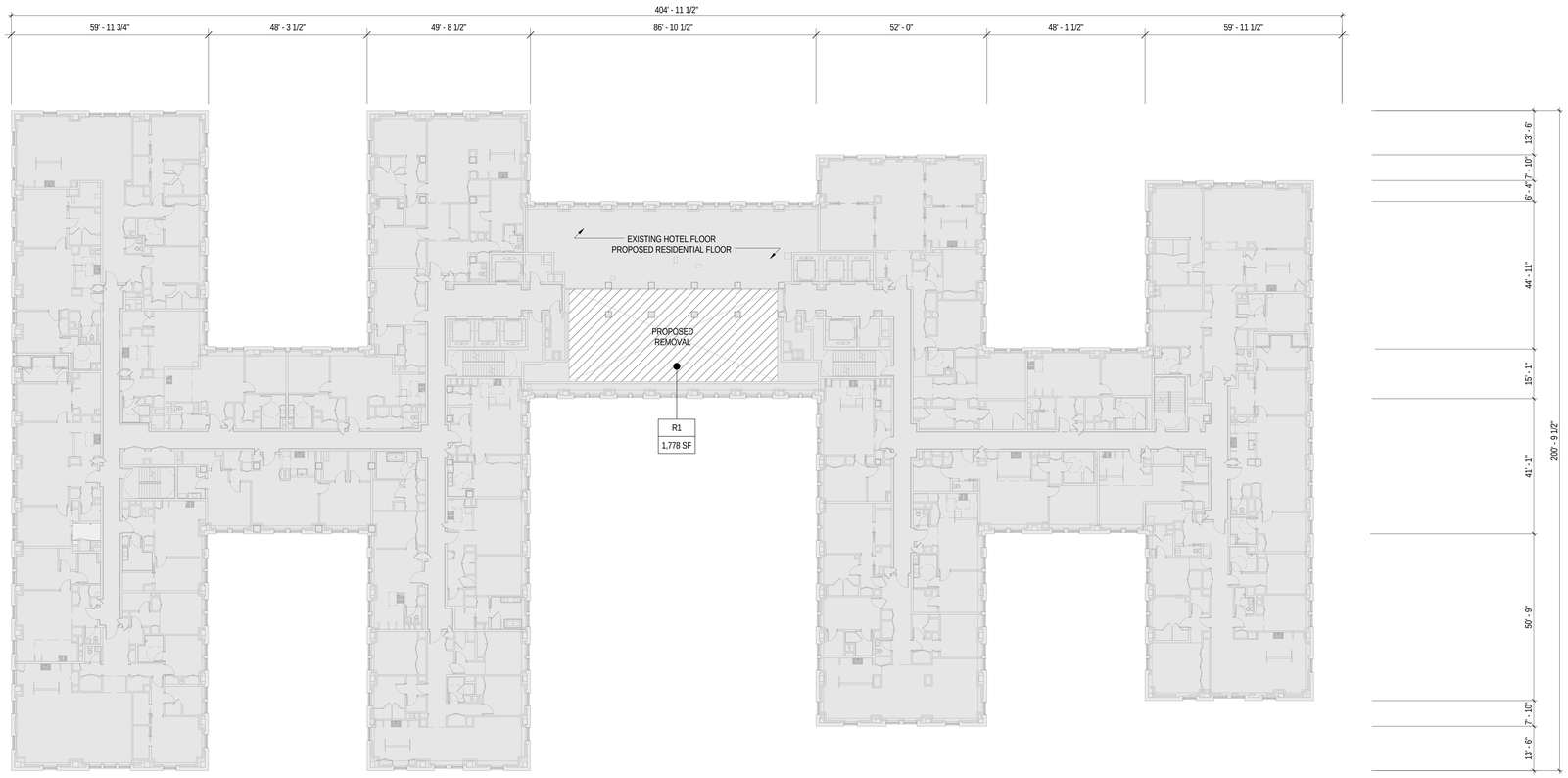
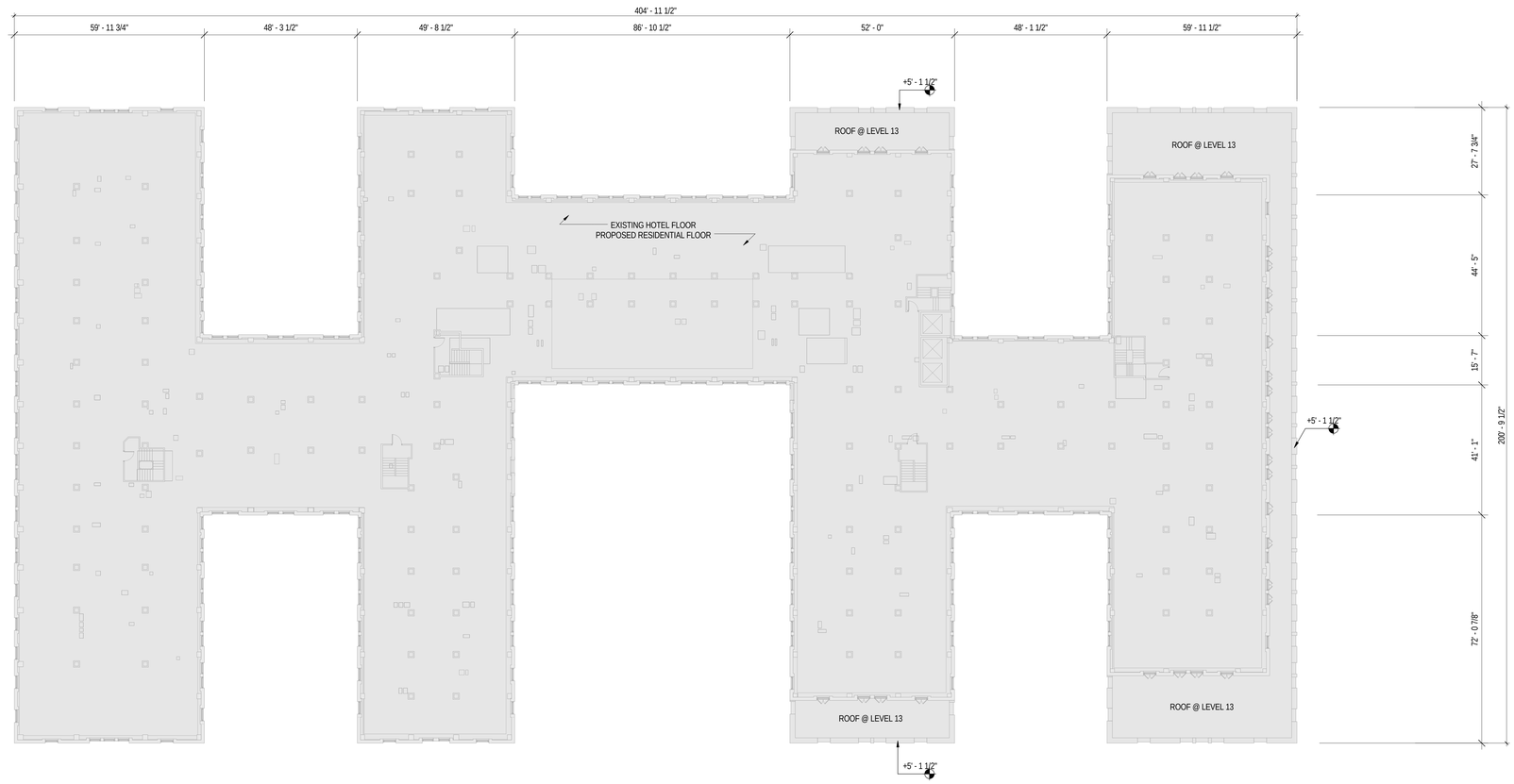


LEVEL 15	
EXISTING FLOOR AREA	49,448 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	1,778 SF
PROPOSED FLOOR AREA	47,670 SF

AREA SUMMARY	
NAME	AREA
R1	1,778 SF
	1,778 SF

2 LEVEL 15 - PROPOSED FLOOR AREA

SCALE: 1/16" = 1'-0"



LEVEL 13	
EXISTING FLOOR AREA	54,579 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	54,579 SF

LEVEL 14	
EXISTING FLOOR AREA	49,448 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	49,448 SF

LEVEL 15	
EXISTING FLOOR AREA	49,448 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A / 150 SF — AREA NAME / FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 LEVEL 13-15 - EXISTING & PROPOSED FLOOR AREA

SCALE: 1/16" = 1'-0"

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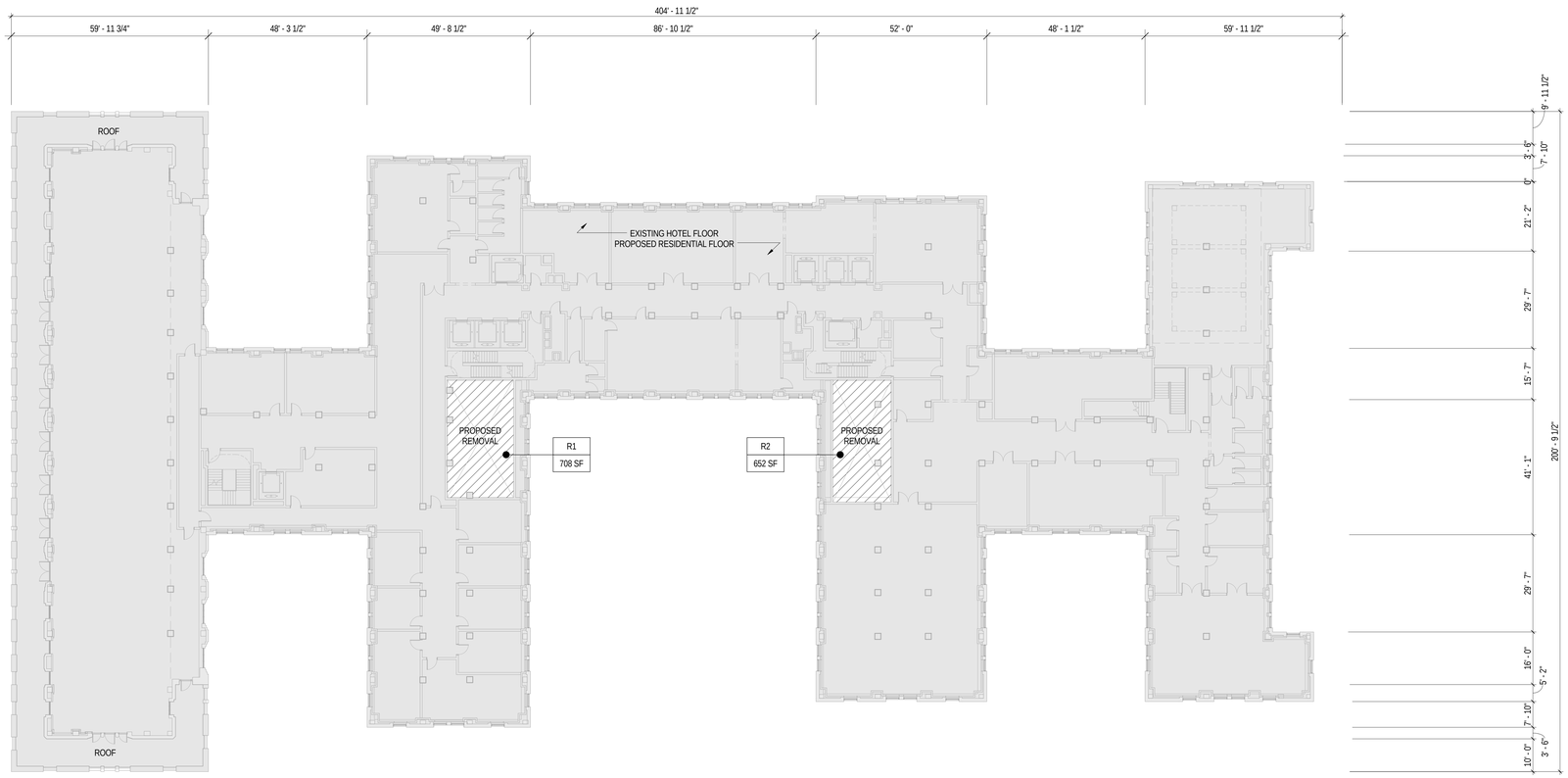
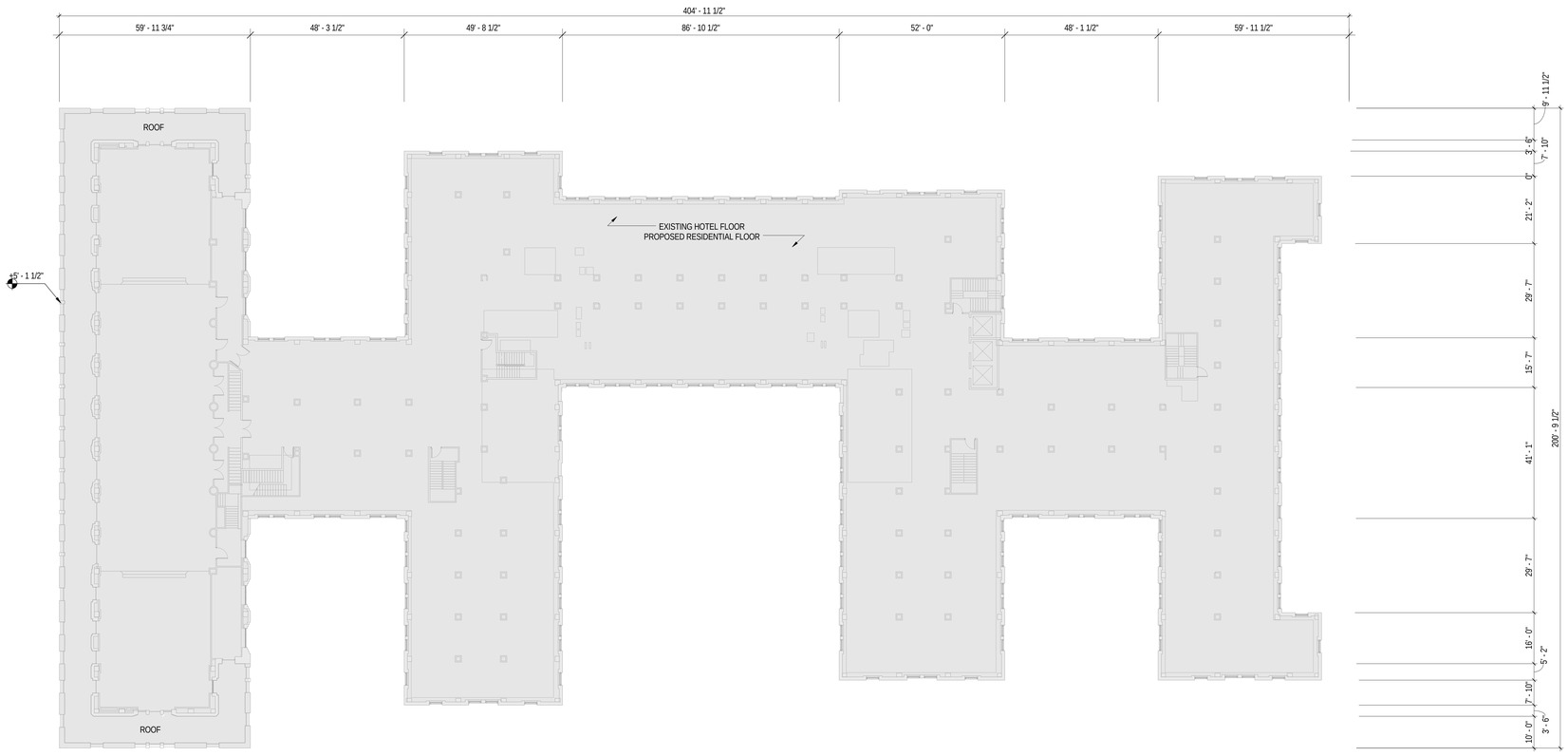


LEVEL 18	
EXISTING FLOOR AREA	45,620 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	1,360 SF
PROPOSED FLOOR AREA	44,260 SF

AREA SUMMARY	
NAME	AREA
R1	708 SF
R2	652 SF
	1,360 SF

2 LEVEL 18 - PROPOSED FLOOR AREA

SCALE: 1/16" = 1'-0"



LEVEL 18	
EXISTING FLOOR AREA	45,620 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A — AREA NAME; 150 SF — FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 LEVEL 18 - EXISTING FLOOR AREA

SCALE: 1/16" = 1'-0"

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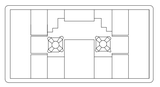

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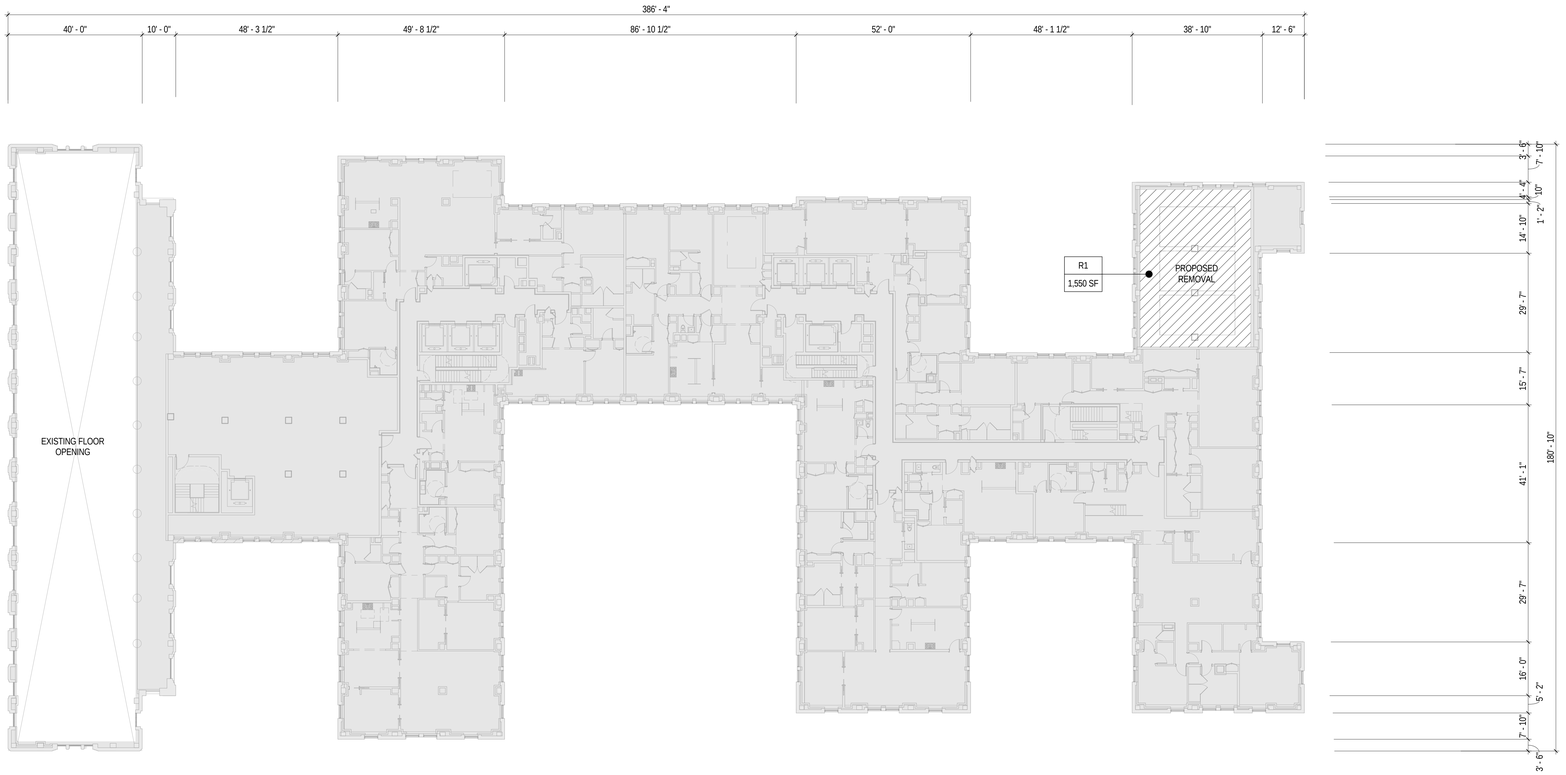
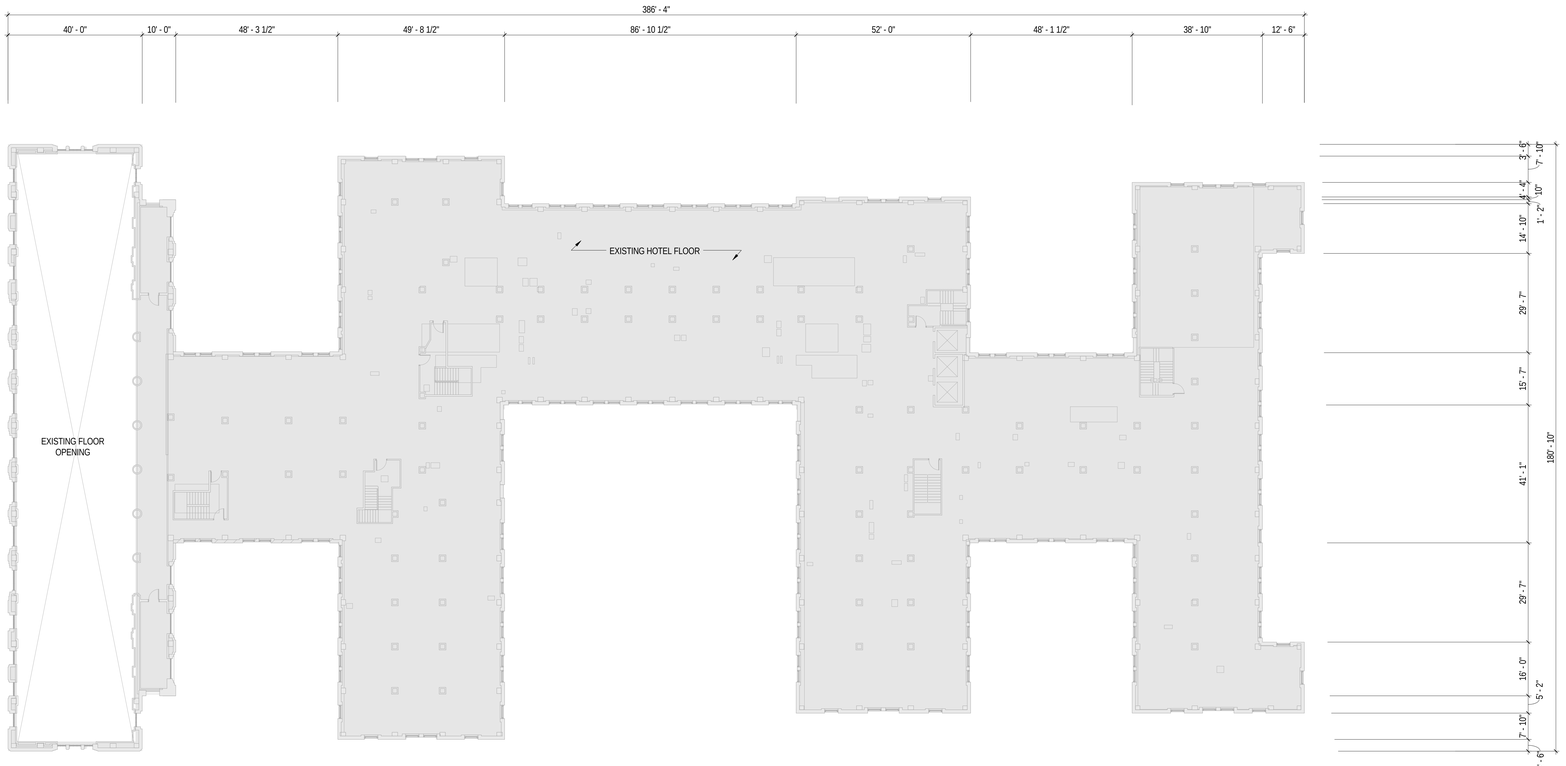


LEVEL 19	
EXISTING FLOOR AREA	35,925 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	1,550 SF
PROPOSED FLOOR AREA	34,375 SF

AREA SUMMARY	
NAME	AREA
R1	1,550 SF
	1,550 SF

2 LEVEL 19 - PROPOSED FLOOR AREA

SCALE: 1/16" = 1'-0"



LEVEL 19	
EXISTING FLOOR AREA	35,925 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A — AREA NAME; 150 SF — FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 LEVEL 19 - EXISTING FLOOR AREA

SCALE: 1/16" = 1'-0"

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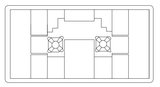

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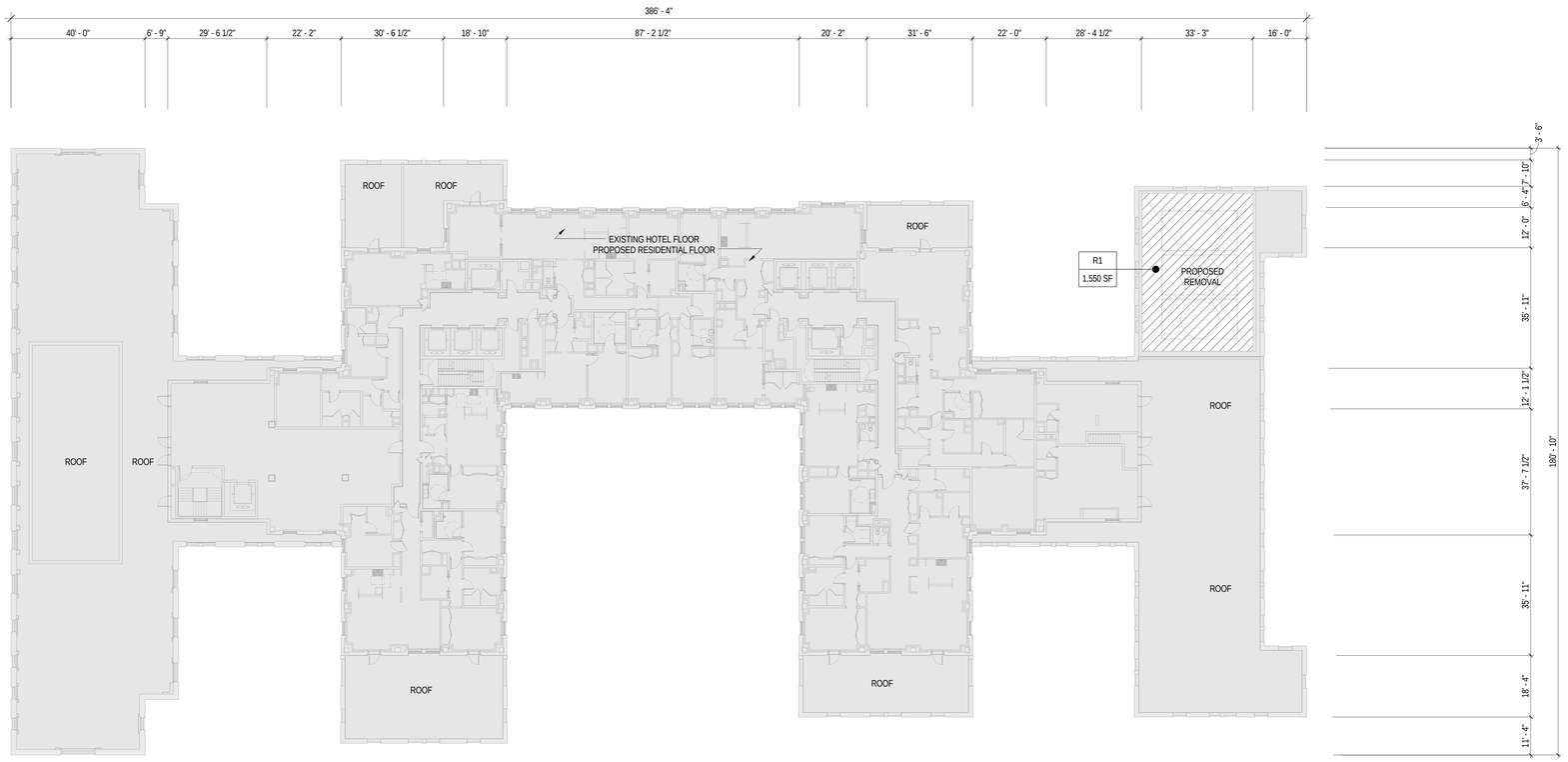
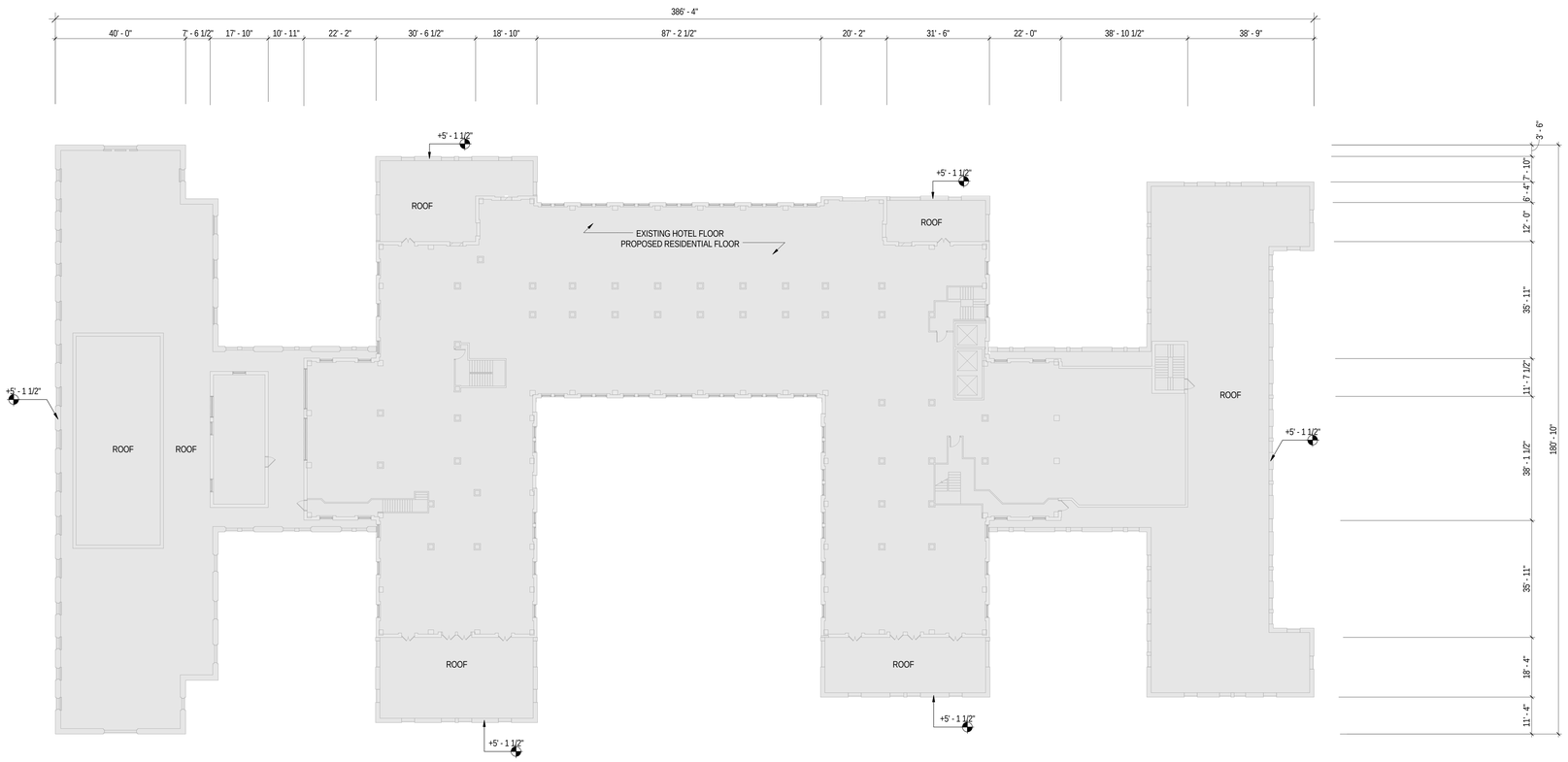


LEVEL 20	
EXISTING FLOOR AREA	42,563 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	1,550 SF
PROPOSED FLOOR AREA	41,013 SF

AREA SUMMARY	
NAME	AREA
R1	1,550 SF
	1,550 SF

2 LEVEL 20 - PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"



LEVEL 20	
EXISTING FLOOR AREA	42,563 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A — AREA NAME; 150 SF — FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 LEVEL 20 - EXISTING FLOOR AREA
SCALE: 1/16" = 1'-0"

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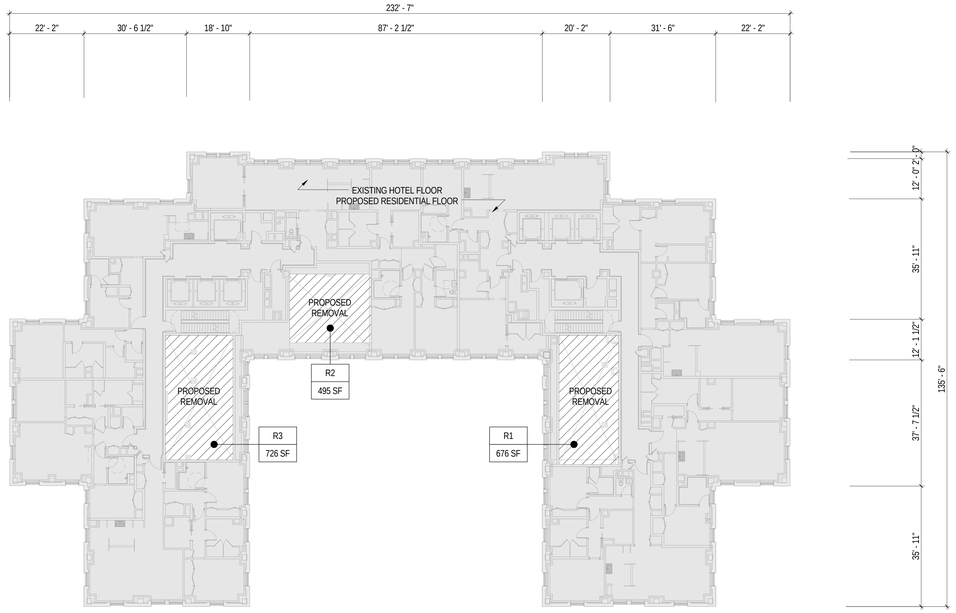
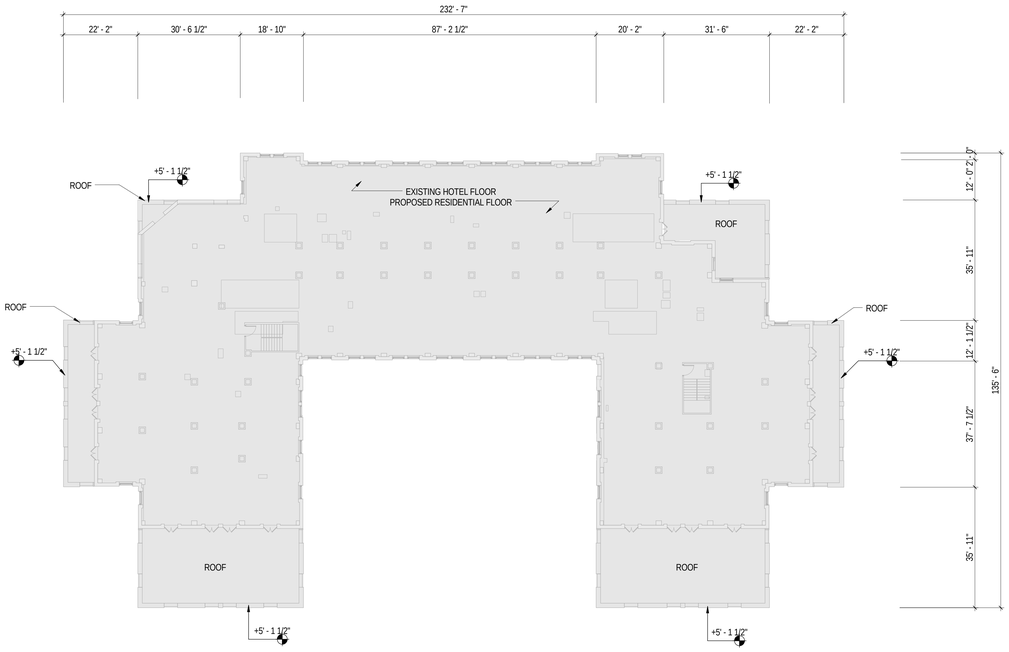


LEVEL 33	
EXISTING FLOOR AREA	20,077 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	1,897 SF
PROPOSED FLOOR AREA	18,180 SF

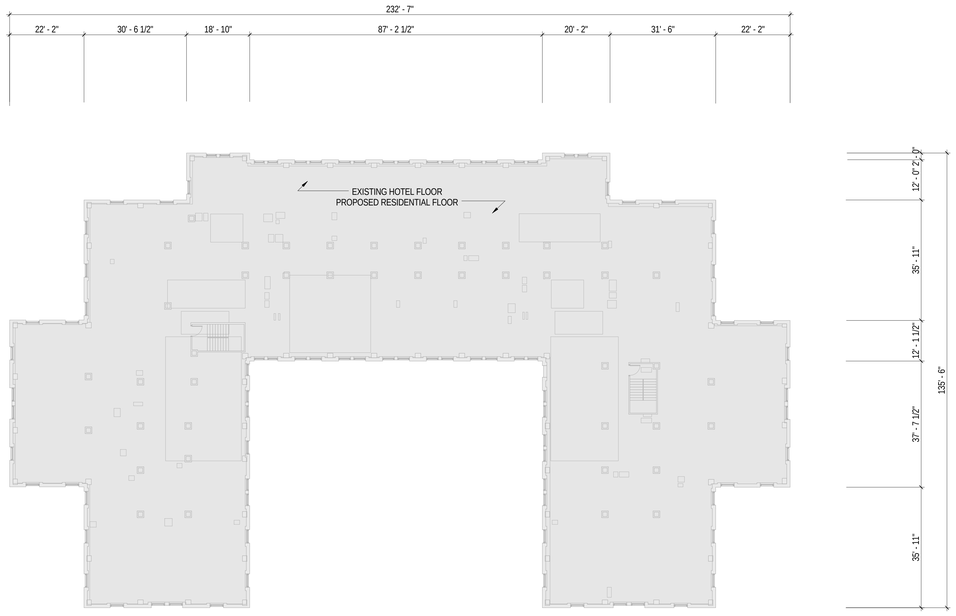
AREA SUMMARY	
NAME	AREA
R1	676 SF
R2	495 SF
R3	726 SF
	1,897 SF

2 LEVEL 33 - PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"



LEVEL 38	
EXISTING FLOOR AREA	20,077 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	20,077 SF

3 LEVEL 38 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"



LEVEL 21-37	
EXISTING FLOOR AREA	20,077 SF

LEVEL 21-32, 34-37	
EXISTING FLOOR AREA	20,077 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	20,077 SF

LEGEND
- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A / 150 SF — AREA NAME / FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 LEVEL 21-37 - EXISTING & PROPOSED FLOOR AREA
SCALE: 1/16" = 1'-0"

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Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT KENNETH ADAM TIHEN No. 023338 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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1	15 FEB 2017	ISSUED TO DOB

DRAWING TITLE
FLOOR AREA REMOVALS AND ENLARGEMENTS

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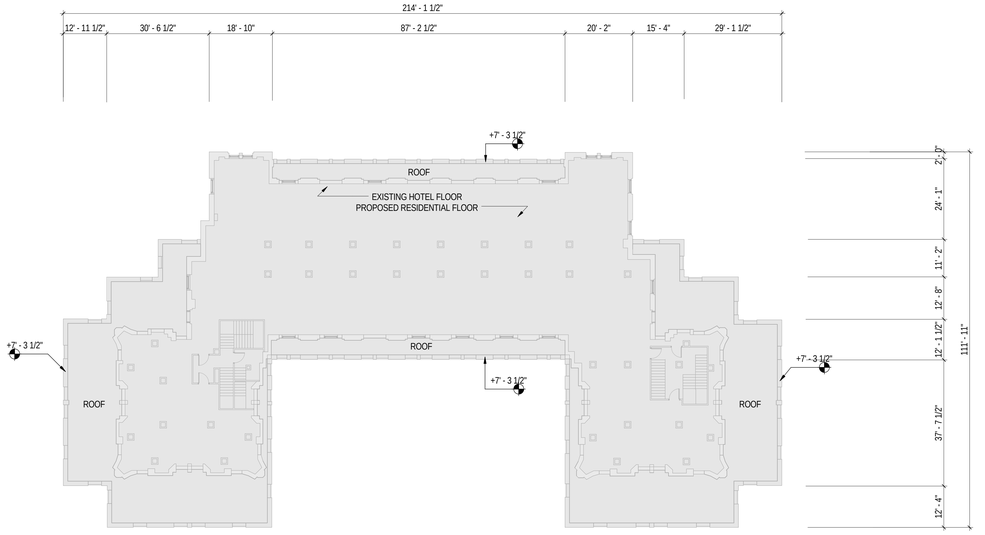
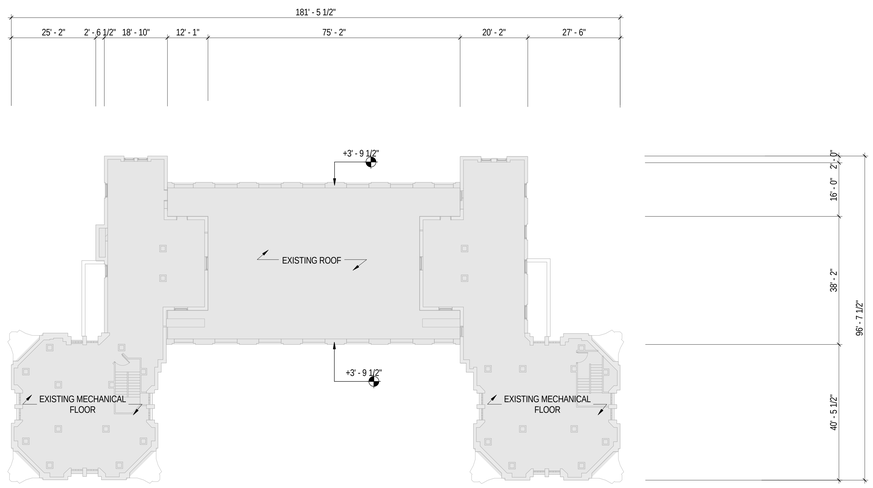


LEVEL 43	
EXISTING FLOOR AREA	15,652 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	15,652 SF

2 LEVEL 43 - EXISTING & PROPOSED FLOOR AREA

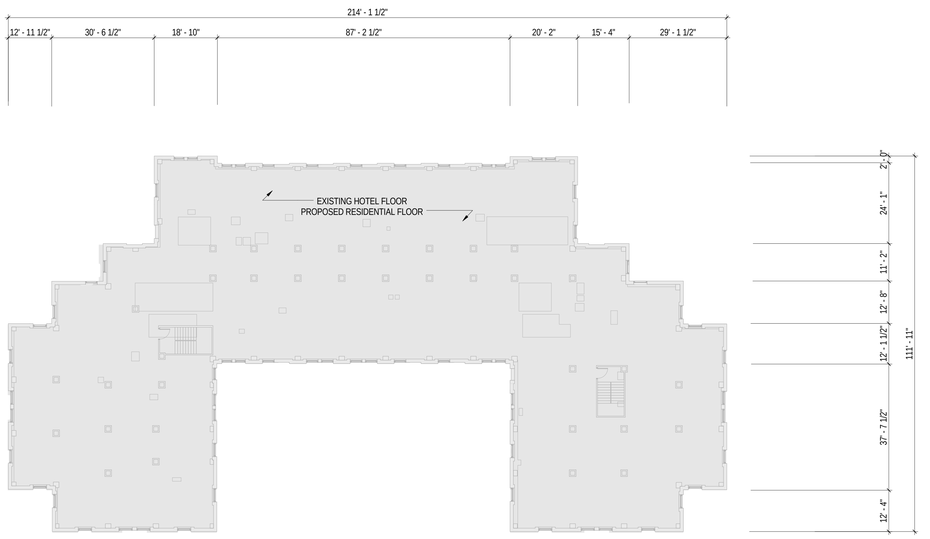
SCALE: 1/16" = 1'-0"



LEVEL 44	
EXISTING FLOOR AREA	9,762 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	9,762 SF

3 LEVEL 44 - EXISTING & PROPOSED FLOOR AREA

SCALE: 1/16" = 1'-0"



LEVEL 39-42	
EXISTING FLOOR AREA	15,652 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	15,652 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A — AREA NAME; 150 SF — FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 LEVEL 39-42 - EXISTING & PROPOSED FLOOR AREA

SCALE: 1/16" = 1'-0"

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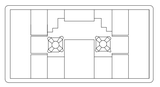

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FLOOR AREA REMOVALS AND ENLARGEMENTS

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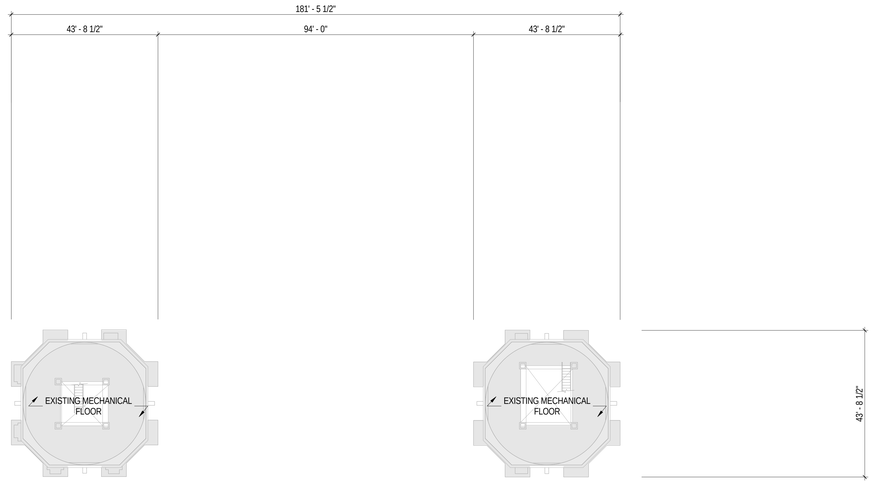
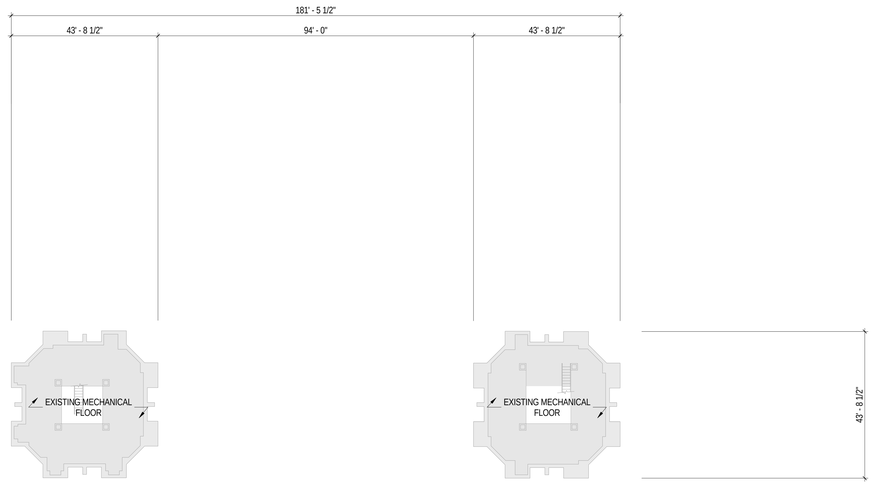


LEVEL TOWER D-E	
EXISTING FLOOR AREA	2,512 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	2,512 SF

4 TOWER D-E - EXISTING & PROPOSED FLOOR AREA

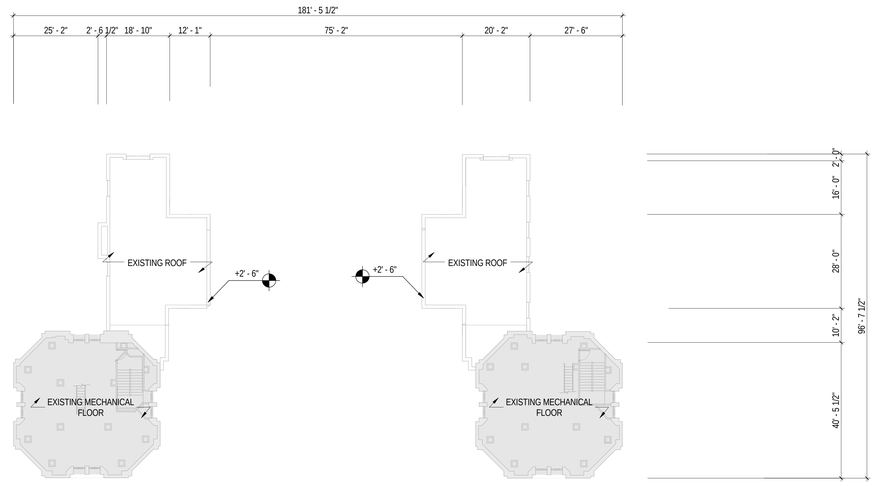
SCALE: 1/16" = 1'-0"



LEVEL TOWER C	
EXISTING FLOOR AREA	2,688 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	2,688 SF

3 TOWER C - EXISTING & PROPOSED FLOOR AREA

SCALE: 1/16" = 1'-0"



LEVEL TOWER B	
EXISTING FLOOR AREA	3,294 SF
PROPOSED ENLARGMENT	0 SF
PROPOSED REMOVAL	0 SF
PROPOSED FLOOR AREA	3,294 SF

LEGEND

- EXISTING GSF
- PROPOSED REMOVAL
- PROPOSED ENLARGEMENT
- A — AREA NAME; 150 SF — FLOOR AREA — AREA TAG
- +X' - X" — T.O. PARAPET ELEVATION RELATIVE TO FINISH FLOOR

1 TOWER B - EXISTING & PROPOSED FLOOR AREA

SCALE: 1/16" = 1'-0"

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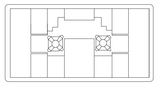

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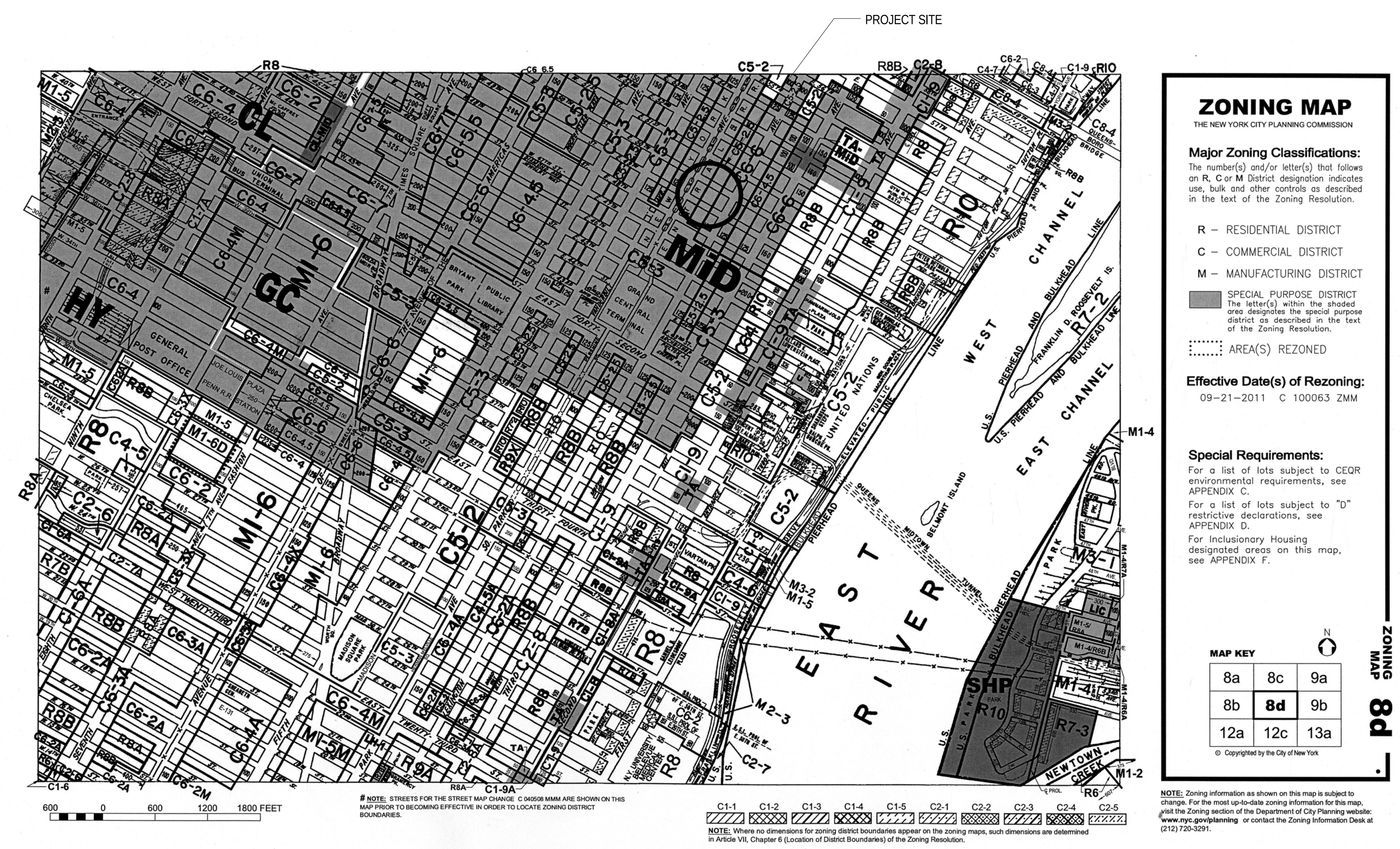
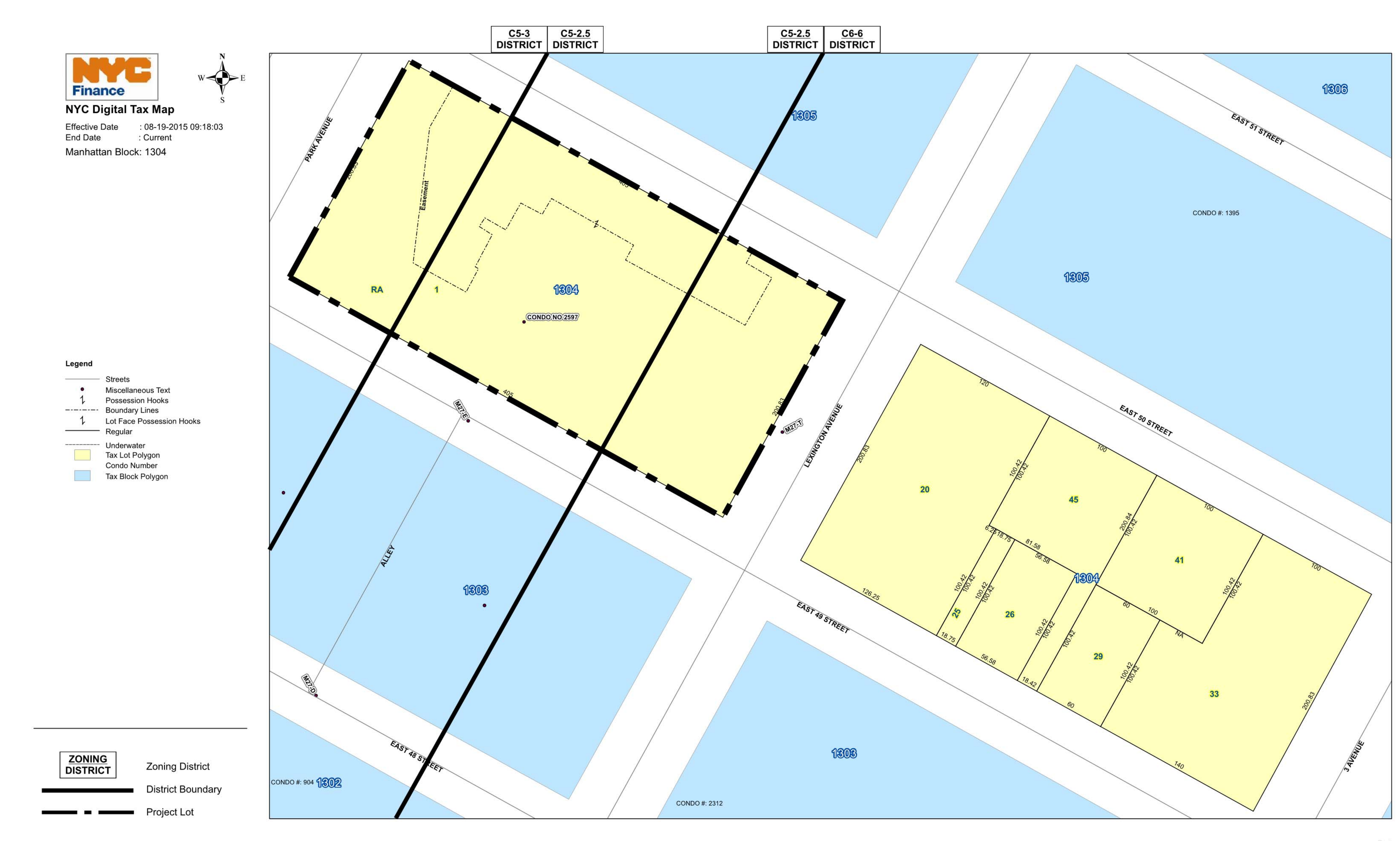


2 | ZONING MAP



1 | TAX LOT MAP

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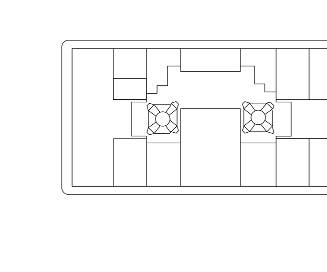

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STATE OF NEW YORK

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ZONING MAPS

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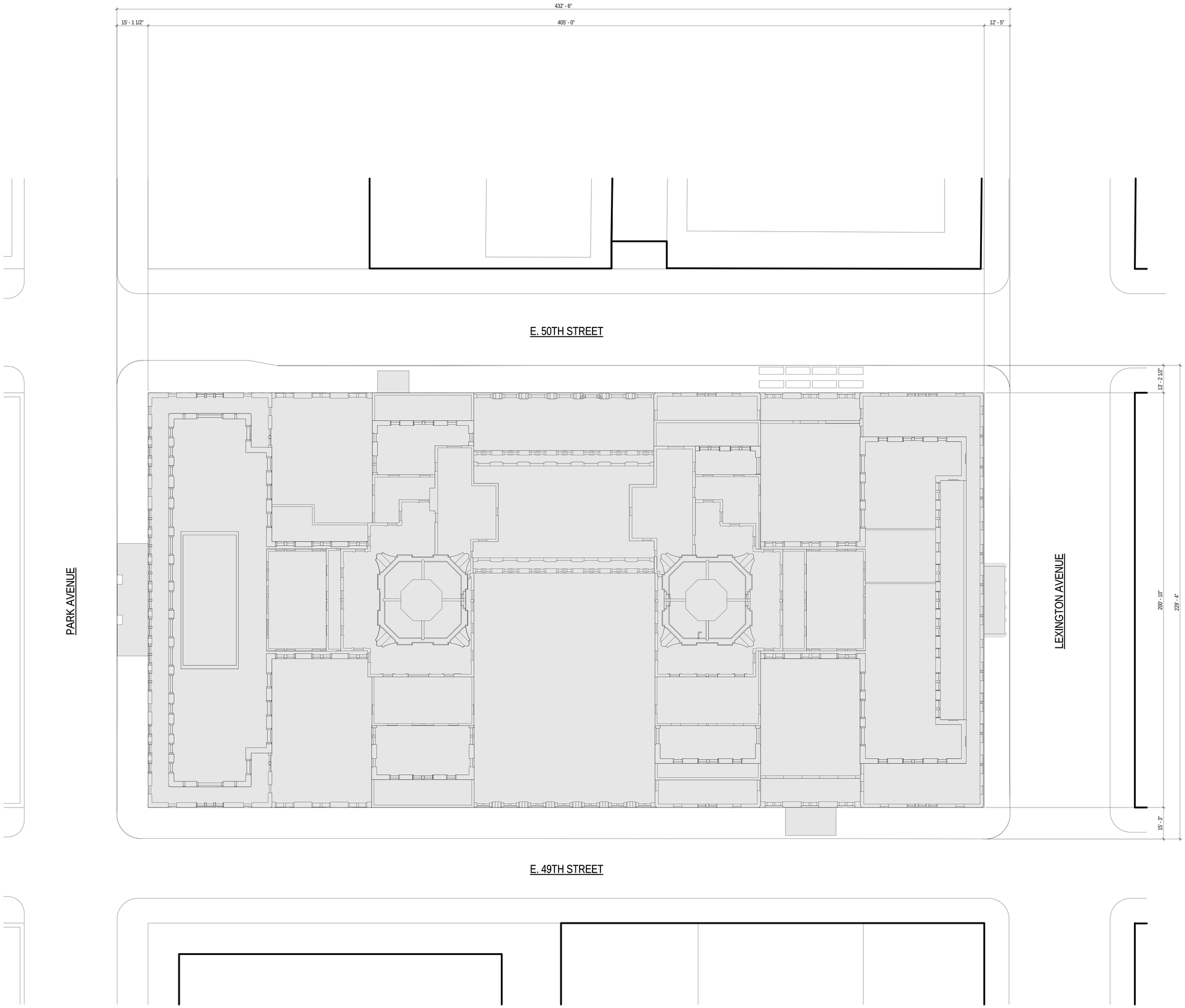

1 SITE PLAN
SCALE: 1/16" = 1'-0"

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Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
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No. 023335
STATE OF NEW YORK

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SITE PLAN

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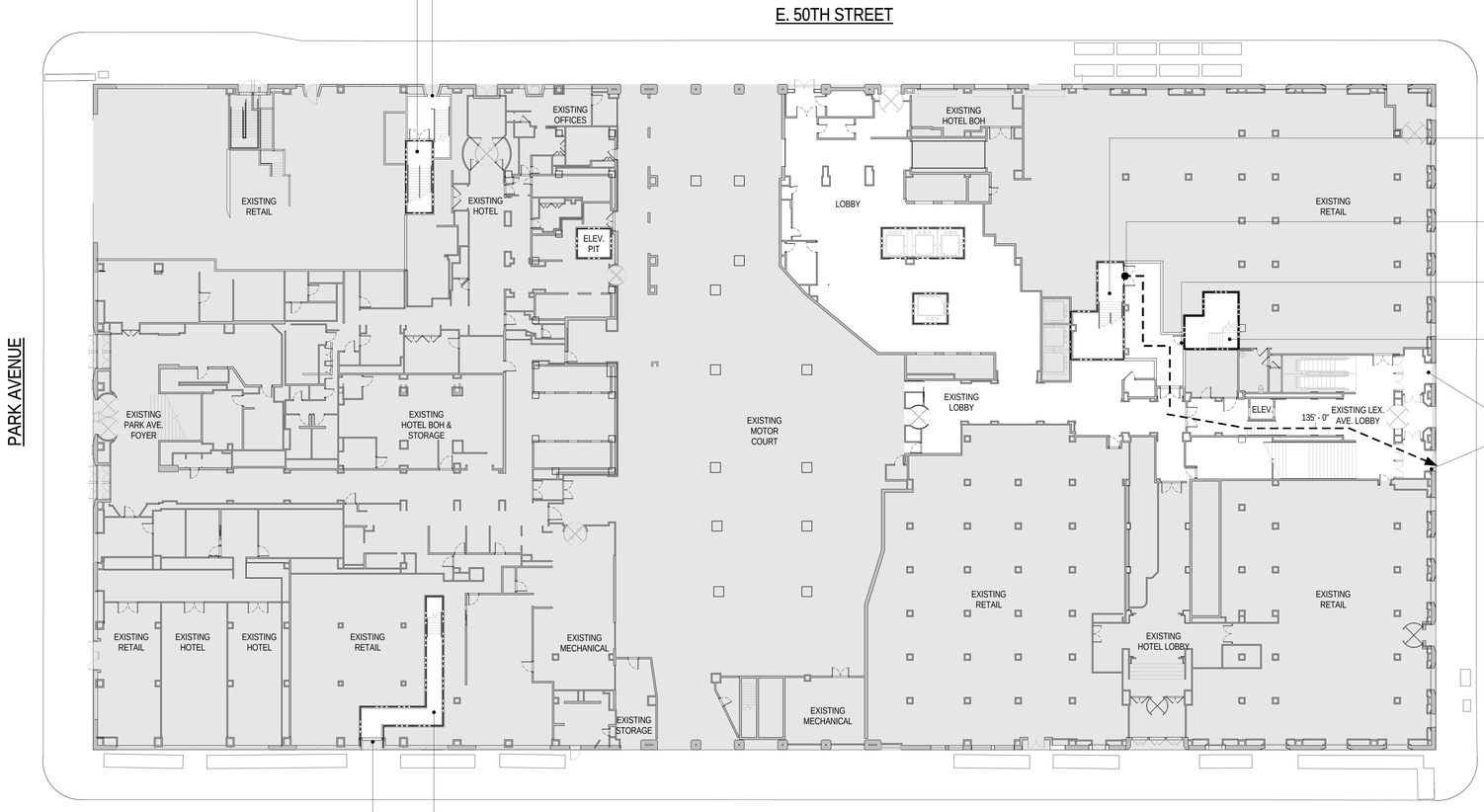

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS @ LEVEL 1
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	88" = 4 UNITS
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE

EXIT DOOR A	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	88" = 4 UNITS @ LEVEL 1
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE

EXIT DOOR B	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE

EXIT DOOR F	TOTAL OCCUPANT CAPACITY: 80
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	45" = 2 UNITS @ LEVEL 1
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT DOOR B2	TOTAL OCCUPANT CAPACITY: 240
DOOR WIDTH:	144" = 6.5 UNITS
DOOR CAPACITY:	6.5 x 40 PEOPLE / UNIT = 260 PEOPLE

EXIT DOOR E	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	45" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	88	4	120	72	3	120	120
STAIR B	88	4	120	72	3	120	120
STAIR E	55	2.5	75	44	2	75	75
STAIR F	55	2.5	75	44	2	75	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 BASEMENT CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING	
		FIRE SEPARATION	FIRE DIVISION
B-2	C	NR*	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	50'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B-LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	
FIXTURE	REQUIRED
WATER CLOSETS	NO CHANGE TO EXISTING
LAVATORIES	NO CHANGE TO EXISTING
DRINKING FOUNTAINS	NO CHANGE TO EXISTING
SERVICE SINK	NO CHANGE TO EXISTING

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0'-0" EGRESS PATH TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEP/FP & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

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EXTERIOR WALL CONSULTANT
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SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
Buildings
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL
REGISTERED ARCHITECT KENNETH ADAM FOX No. 023328 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-014.00

PAGE NUMBER
2 OF 137

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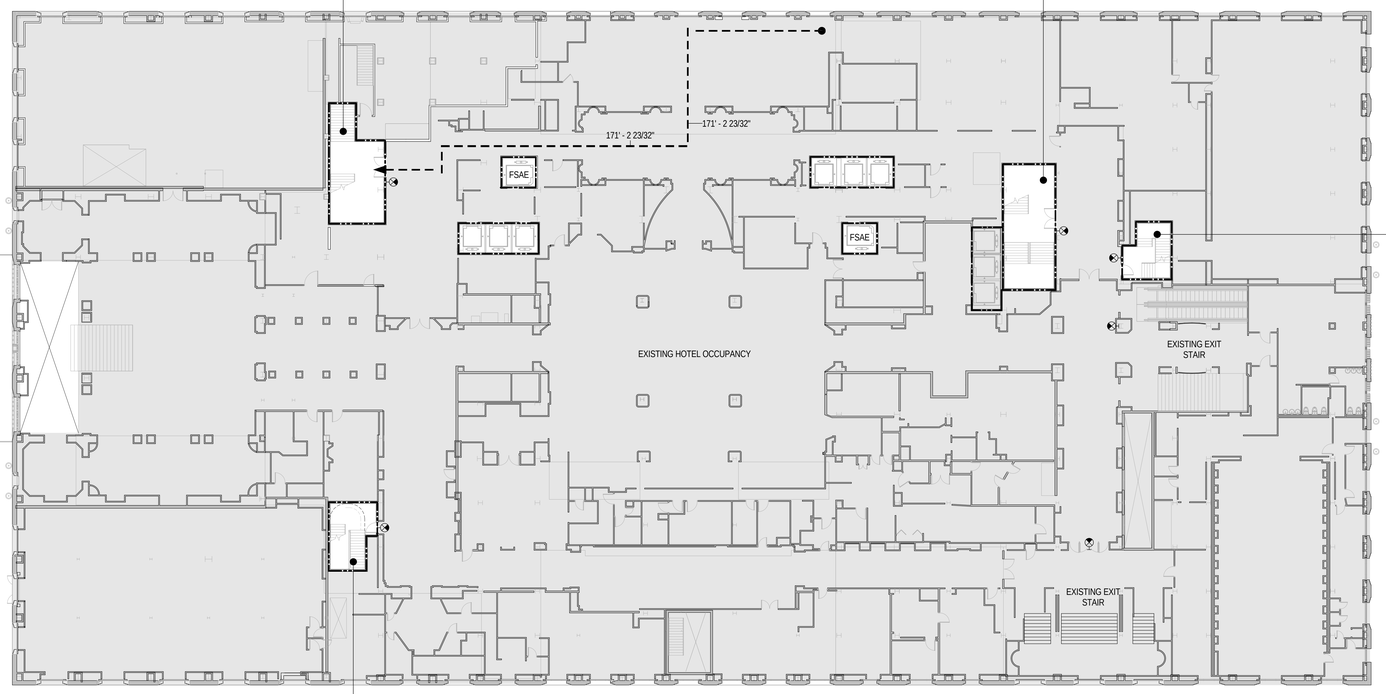
DEPT OF BLDGS 421913745 Job Number
E5300057389 Scan Code

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	88" = 4 UNITS
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	88" = 4 UNITS
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE



EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	45" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR CAPACITY

STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	88	4	120	72	3	120	120
STAIR B	88	4	120	72	3	120	120
STAIR E	55	2.5	75	44	2	75	75
STAIR F	55	2.5	75	44	2	75	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 LEVEL 01 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE TO PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	
FIXTURE	REQUIRED
WATER CLOSETS	NO CHANGE TO EXISTING
LAVATORIES	NO CHANGE TO EXISTING
DRINKING FOUNTAINS	NO CHANGE TO EXISTING
SERVICE SINK	NO CHANGE TO EXISTING

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (410.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
0'-0" TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP 150 SF — CLASSIFICATION / AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

OWNER
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SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
Building 1
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL:
REGISTERED ARCHITECT KENNETH ADAM ATKINS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-015.00

PAGE NUMBER
3 OF 137

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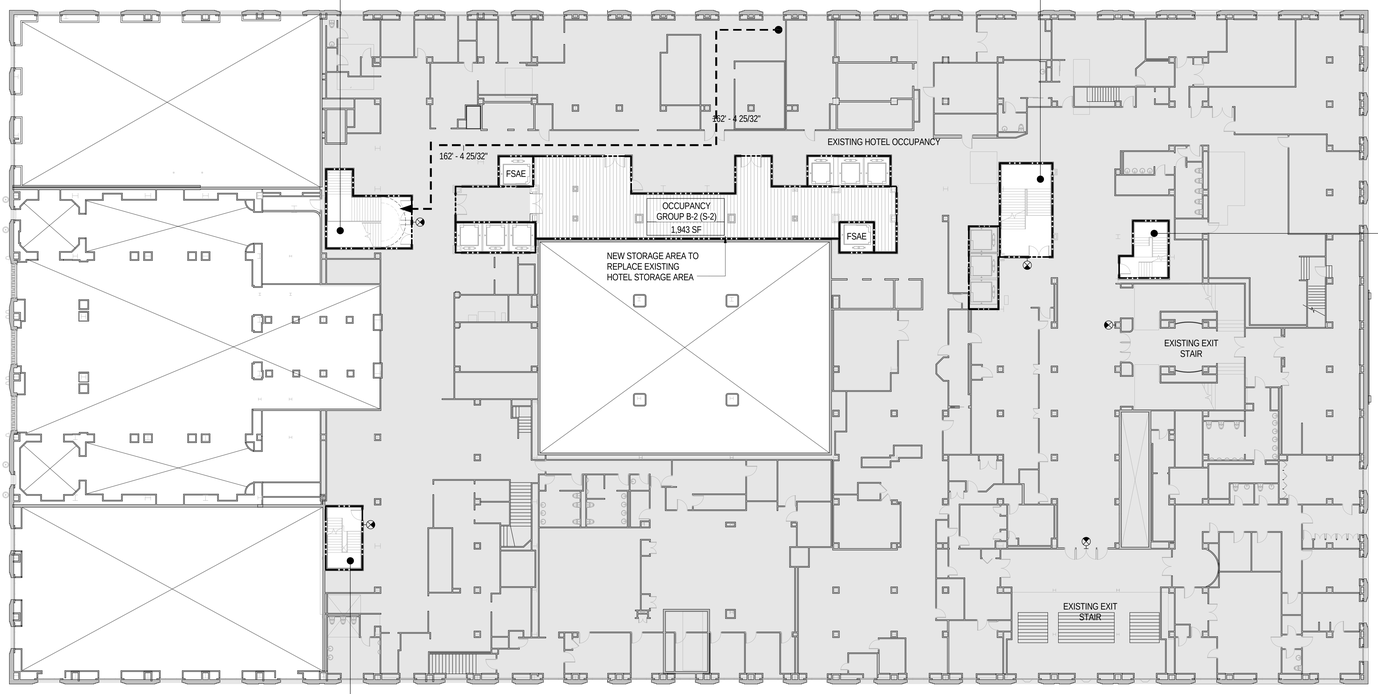
DEPT OF BLDGS 421191245 Job Number

E5900020026M Scan Code

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	144" = 6.5 UNITS
DOOR CAPACITY:	6.5 x 40 PEOPLE / UNIT = 260 PEOPLE
STAIR WIDTH:	88" = 4 UNITS
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	88" = 4 UNITS
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE



EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	88	4	120	72	3	120	120
STAIR B	88	4	120	72	3	120	120
STAIR E	55	2.5	75	44	2	75	75
STAIR F	55	2.5	75	44	2	75	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 LEVEL 02 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING	
		FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-399(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	
FIXTURE	REQUIRED
WATER CLOSETS	NO CHANGE TO EXISTING
LAVATORIES	NO CHANGE TO EXISTING
DRINKING FOUNTAINS	NO CHANGE TO EXISTING
SERVICE SINK	NO CHANGE TO EXISTING

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (410.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

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FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

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LEGEND

EXIT SIGN

EXIT SIGN W/ EGRESS DIRECTION

EGRESS PATH
TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION

OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS

EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

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ARCHITECT

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SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL:

REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 025358
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

DRAWING TITLE

CODE ANALYSIS

B-SCAN - DRAWING NUMBER

A-016.00

PAGE NUMBER

4 OF 137

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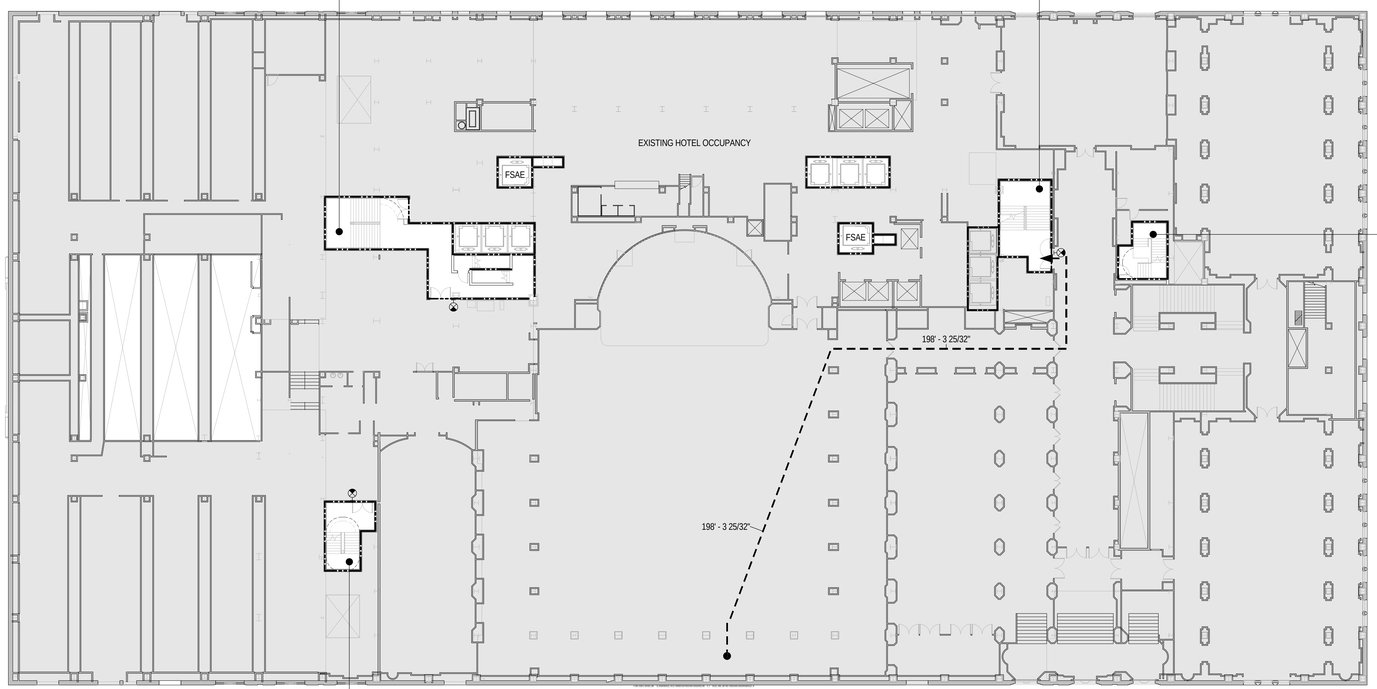
DEPT OF BLDGS 421912425 Job Number
E5890003S0009 Scan Code

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	144" = 6.5 UNITS
DOOR CAPACITY:	6.5 x 40 PEOPLE / UNIT = 260 PEOPLE
STAIR WIDTH:	88" = 4 UNITS
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	88" = 4 UNITS
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE



EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR CAPACITY

STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	88	4	120	72	3	120	120
STAIR B	88	4	120	72	3	120	120
STAIR E	55	2.5	75	72	3	120	75
STAIR F	55	2.5	75	44	2	75	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 LEVEL 03 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

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BUILDING CODE OF THE CITY OF NEW YORK
GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-399(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (h))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	
FIXTURE	REQUIRED
WATER CLOSETS	NO CHANGE TO EXISTING
LAVATORIES	NO CHANGE TO EXISTING
DRINKING FOUNTAINS	NO CHANGE TO EXISTING
SERVICE SINK	NO CHANGE TO EXISTING

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT.

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP / 150 SF — CLASSIFICATION / AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEP/FP & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
Atkins
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
AHMED AZMI ATKINS
No. 023235
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-017.00

PAGE NUMBER
5 OF 137

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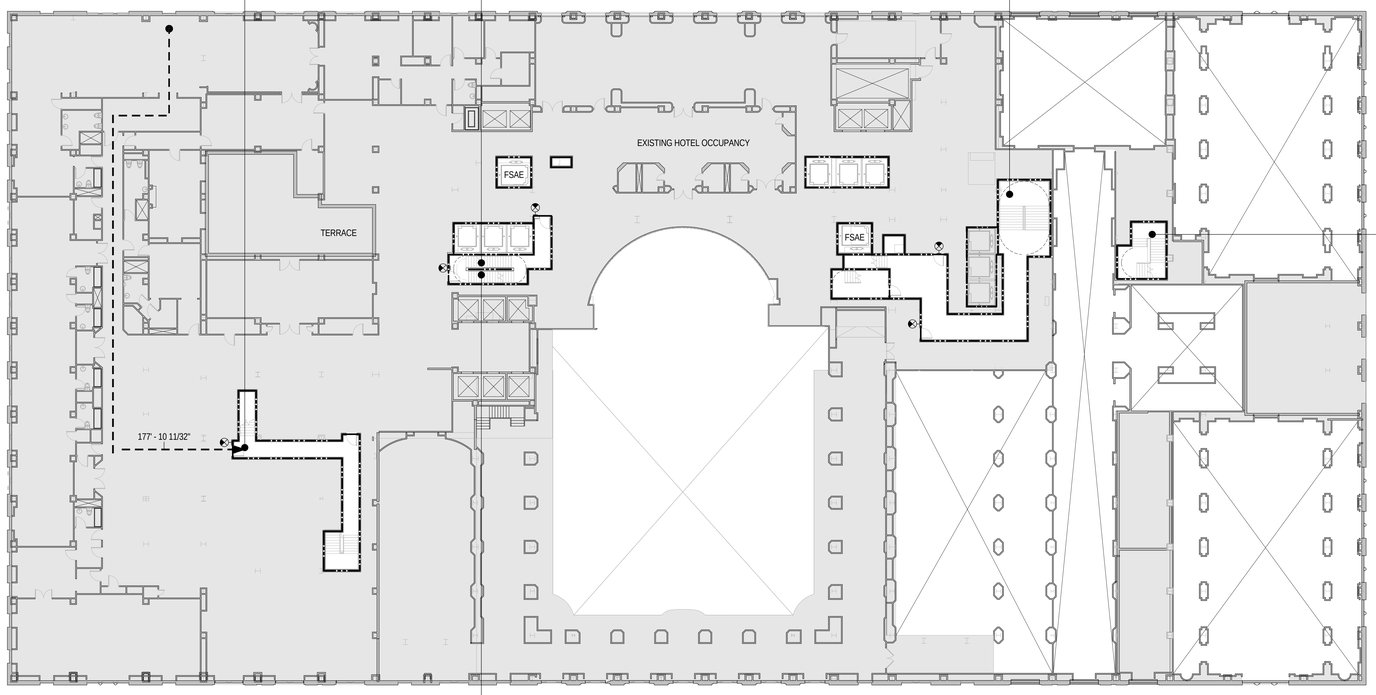
DEPT OF BLDGS 421913245 Job Number
E-5997855405 Scan Code

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	72" = 3 UNITS
DOOR CAPACITY:	3 x 40 PEOPLE / UNIT = 120 PEOPLE
STAIR WIDTH:	88" = 4 UNITS
STAIR CAPACITY:	4 x 30 PEOPLE / UNIT = 120 PEOPLE



EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	88	4	120	72	3	120	120
STAIR C	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	72	3	120	75
STAIR F	55	2.5	75	44	2	75	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 LEVEL 04 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK
(TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968
EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK
GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING	
		FIRE SEPARATION	FIRE DIVISION
B-2	C	NR*	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	
FIXTURE	REQUIRED
WATER CLOSETS	NO CHANGE TO EXISTING
LAVATORIES	NO CHANGE TO EXISTING
DRINKING FOUNTAINS	NO CHANGE TO EXISTING
SERVICE SINK	NO CHANGE TO EXISTING

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (410.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0'-0" EGRESS PATH
TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP / 150 SF — CLASSIFICATION / AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
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CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-018.00

PAGE NUMBER
6 OF 137

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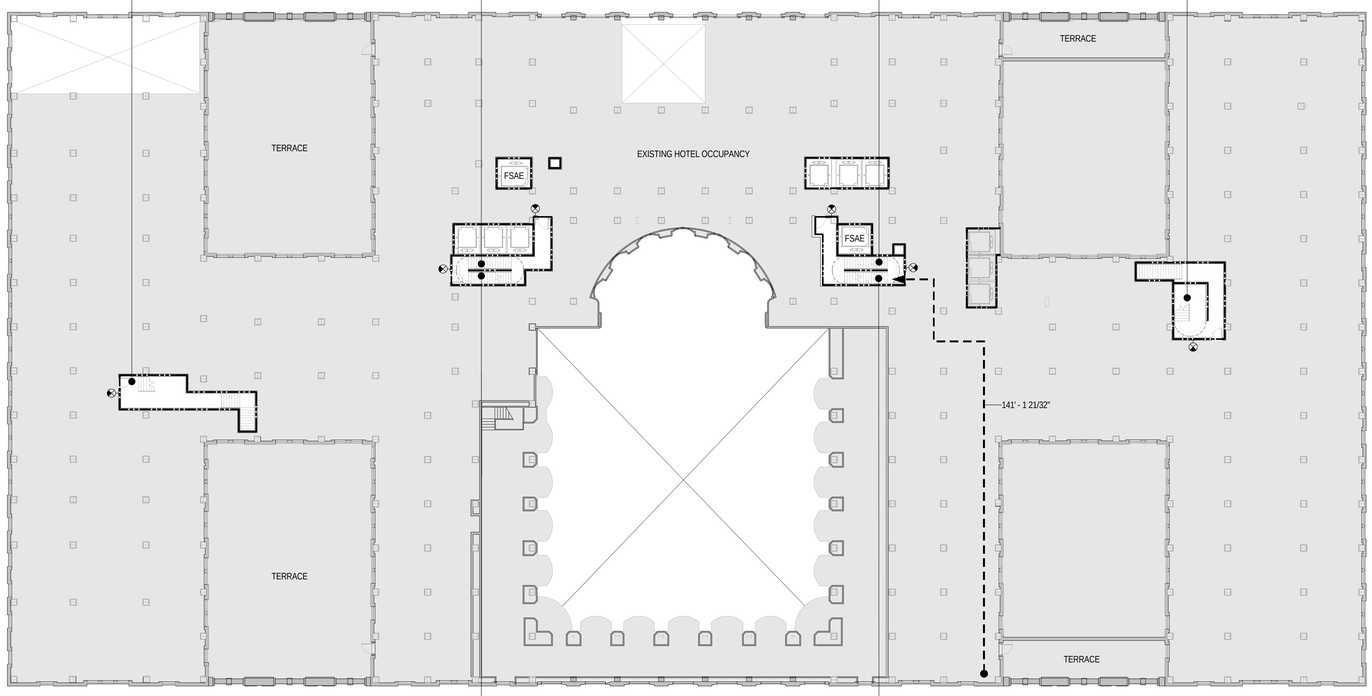
DEPT OF BLDGS 421912745 Job Number
E3003515350 Scan Code

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE



EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	75	75
STAIR F	55	2.5	75	44	2	75	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 LEVEL 05 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK
(TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968
EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK
GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING	
		FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	
FIXTURE	REQUIRED
WATER CLOSETS	NO CHANGE TO EXISTING
LAVATORIES	NO CHANGE TO EXISTING
DRINKING FOUNTAINS	NO CHANGE TO EXISTING
SERVICE SINK	NO CHANGE TO EXISTING

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (410.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0'-0" EGRESS PATH TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS

EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

OWNER

ANBANG GROUP 安邦集团

ARCHITECT

SOM

Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER

Silman

MEPF & SITE CIVIL ENGINEER

Stantec Inc.

VERTICAL TRANSPORTATION

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EXTERIOR WALL CONSULTANT

WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

DRAWING TITLE

CODE ANALYSIS

B-SCAN - DRAWING NUMBER

A-019.00

PAGE NUMBER

7 OF 137

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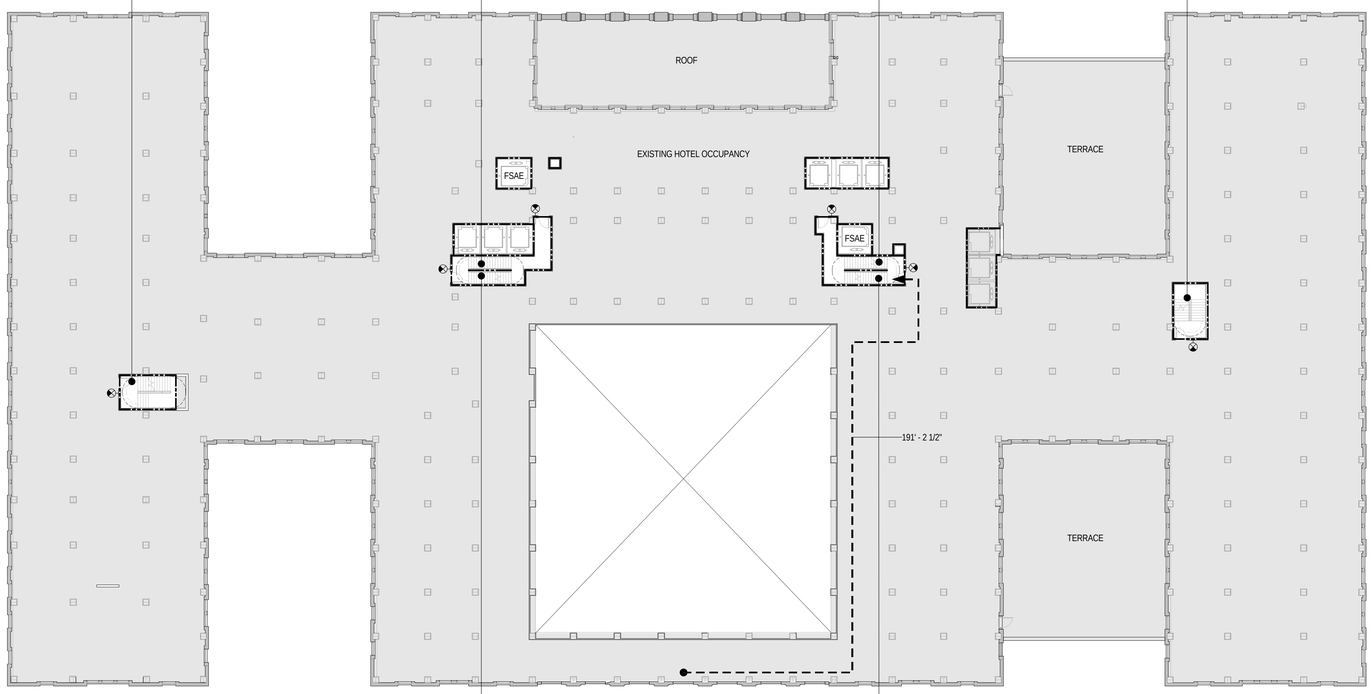
DEPT OF BLDGS 421913245 Job Number
E350569998YA Scan Code

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE



EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	75	75
STAIR F	55	2.5	75	44	2	75	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 LEVEL 06 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK
(TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968
EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK
GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING	
		FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-359)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	
FIXTURE	REQUIRED
WATER CLOSETS	NO CHANGE TO EXISTING
LAVATORIES	NO CHANGE TO EXISTING
DRINKING FOUNTAINS	NO CHANGE TO EXISTING
SERVICE SINK	NO CHANGE TO EXISTING

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (410.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0'-0" EGRESS PATH / TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS

EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

OWNER

ANBANG GROUP 安邦集团

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STRUCTURAL ENGINEER

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EXTERIOR WALL CONSULTANT

WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TIBBS
No. 025348
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

DRAWING TITLE

CODE ANALYSIS

B-SCAN - DRAWING NUMBER

A-020.00

PAGE NUMBER

8 OF 137

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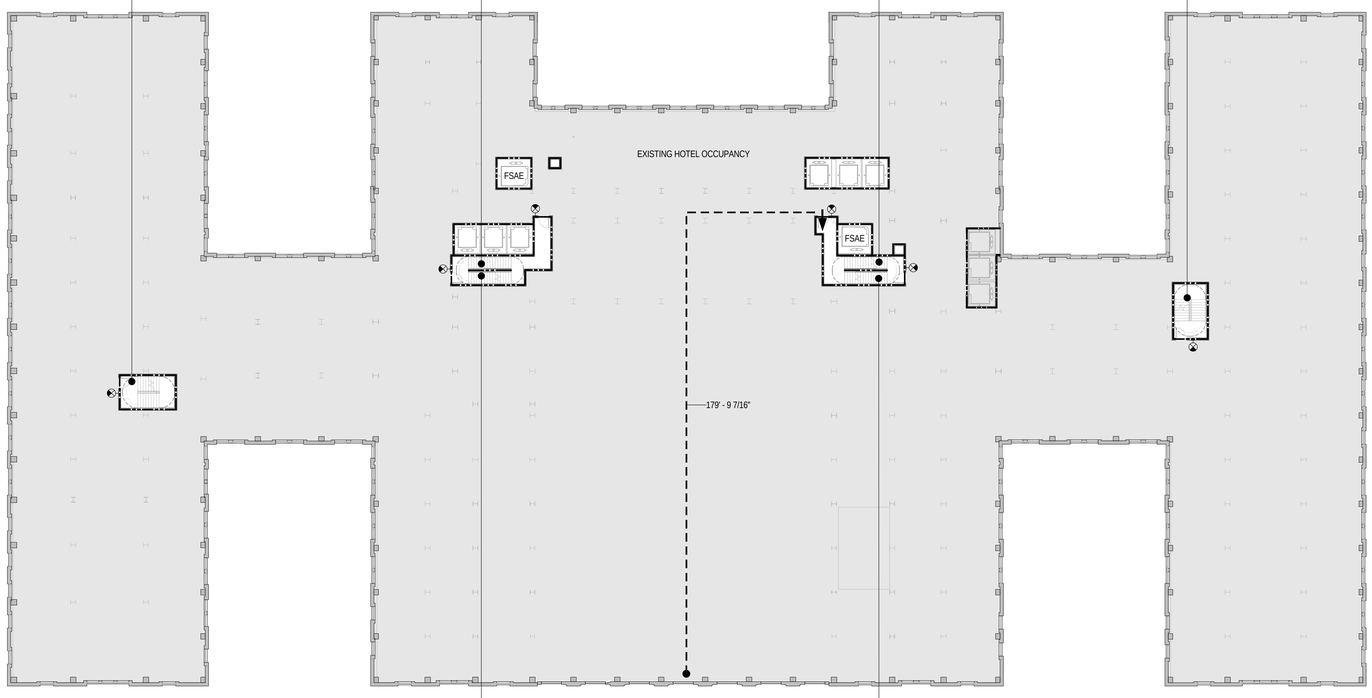
DEPT OF BLDGS 421913245 Job Number
B574140000999 Scan Code

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE



EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	75	75
STAIR F	55	2.5	75	44	2	75	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 LEVEL 07 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK
(TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968
EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK
GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING	
		FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
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MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

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B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
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B-2	75'
C, D-2, E	100'
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MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

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STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

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MINIMUM TREAD	9 1/2" PLUS NOSING

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FIXTURE	REQUIRED
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FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
0'-0" TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

OWNER

ANBANG GROUP 安邦集团

ARCHITECT

SOM

Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER

Silman

MEPF & SITE CIVIL ENGINEER

Stantec Inc.

VERTICAL TRANSPORTATION

Van Deusen & Associates

CODE CONSULTING

Code Consultants, Inc.

LOGISTICS CONSULTANT

Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING

Philip Habib & Associates

EXTERIOR WALL CONSULTANT

WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

DRAWING TITLE

CODE ANALYSIS

B-SCAN - DRAWING NUMBER

A-021.00

PAGE NUMBER

9 OF 137

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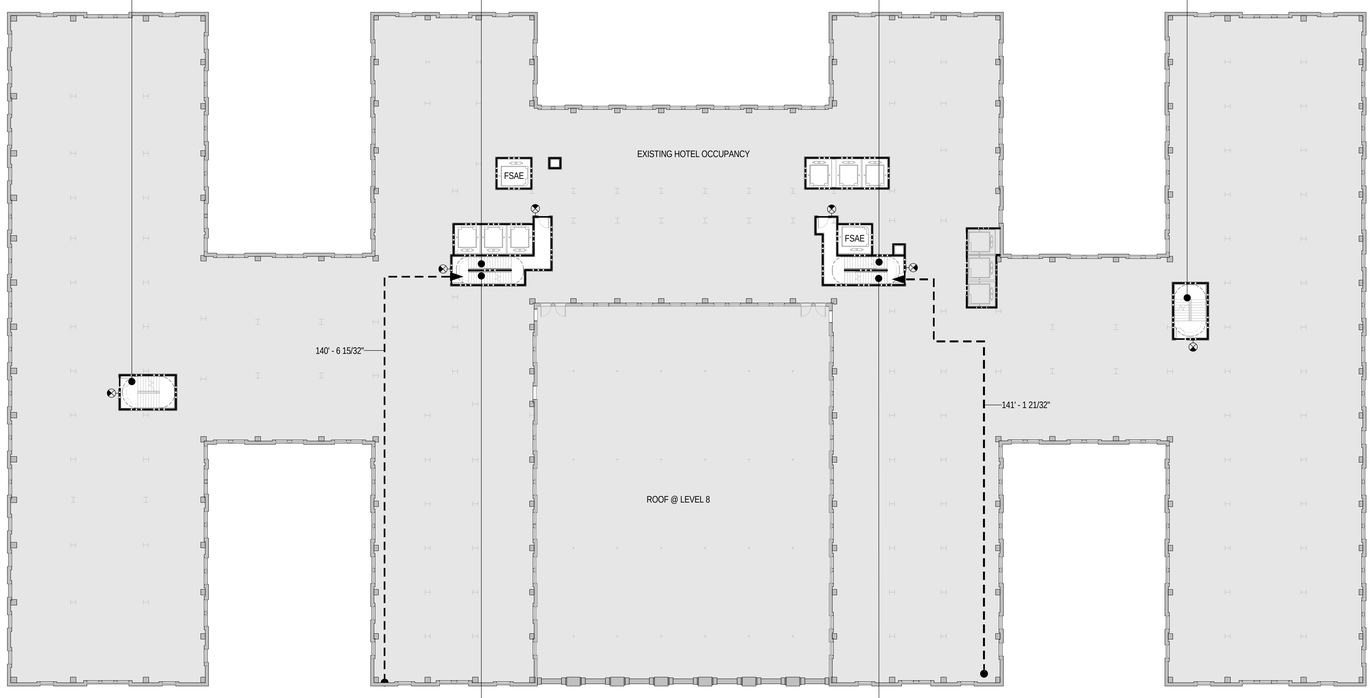
DEPT OF BLDGS 421910245 Job Number
E350111610 05 Scan Code

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE



EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR CAPACITY

STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	80	75
STAIR F	55	2.5	75	44	2	80	75
TOTAL							390

NOTE:
NO CHANGE TO EXISTING OCCUPANCY ON FLOOR

1 LEVEL 08 - 12 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK
(TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968
EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK
GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING	
		FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	
FIXTURE	REQUIRED
WATER CLOSETS	NO CHANGE TO EXISTING
LAVATORIES	NO CHANGE TO EXISTING
DRINKING FOUNTAINS	NO CHANGE TO EXISTING
SERVICE SINK	NO CHANGE TO EXISTING

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (410.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0'-0" EGRESS PATH / TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP / 150 SF — CLASSIFICATION / AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

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New York, NY 10022

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REGISTERED ARCHITECT
KENNETH ADAM TAM
No. 025535
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

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CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-022.00

PAGE NUMBER
10 OF 137

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DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
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DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

LIVING/KITCHEN 707 SF
LIGHT REQ (10%): 71 SF
PROVIDED: 110 SF
AIR REQ (2.5%): 18 SF
PROVIDED: 55 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 307 SF
LIGHT REQ (10%): 31 SF
PROVIDED: 37 SF
AIR REQ (2.5%): 8 SF
PROVIDED: 18 SF

BEDROOM 158 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 497 SF
LIGHT REQ (10%): 50 SF
PROVIDED: 68 SF
AIR REQ (2.5%): 12 SF
PROVIDED: 34 SF

OCCUPANCY GROUP D-2
72 SF

BEDROOM 171 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 275 SF
LIGHT REQ (10%): 28 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 20 SF

LIVING/KITCHEN 897 SF
LIGHT REQ (10%): 90 SF
PROVIDED: 130 SF
AIR REQ (2.5%): 22 SF
PROVIDED: 65 SF

BEDROOM 262 SF
LIGHT REQ (10%): 26 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 20 SF

BEDROOM 170 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING 269 SF
LIGHT REQ (10%): 27 SF
PROVIDED: 35 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 18 SF

BEDROOM 183 SF
LIGHT REQ (10%): 18 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 187 SF
LIGHT REQ (10%): 19 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

LIVING/KITCHEN 162 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 20 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 10 SF

BEDROOM 162 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 223 SF
LIGHT REQ (10%): 22 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 20 SF

BEDROOM 221 SF
LIGHT REQ (10%): 22 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 20 SF

LIVING/KITCHEN 736 SF
LIGHT REQ (10%): 74 SF
PROVIDED: 99 SF
AIR REQ (2.5%): 18 SF
PROVIDED: 49 SF

BEDROOM 187 SF
LIGHT REQ (10%): 19 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 20 SF

BEDROOM 163 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 271 SF
LIGHT REQ (10%): 27 SF
PROVIDED: 68 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 34 SF

LIVING/KITCHEN 232 SF
LIGHT REQ (10%): 23 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

LIVING 275 SF
LIGHT REQ (10%): 28 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 17 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 17 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 8 SF

EXIT SEPERATION
32'-10 > 15'-0"

OCCUPANCY GROUP B-2
89 SF

OCCUPANCY GROUP D-2
197 SF

OCCUPANCY GROUP D-2
100 SF

LIVING/KITCHEN 313 SF
LIGHT REQ (10%): 31 SF
PROVIDED: 48 SF
AIR REQ (2.5%): 8 SF
PROVIDED: 24 SF

BEDROOM 171 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

OCCUPANCY GROUP D-2
130 SF

BEDROOM 178 SF
LIGHT REQ (10%): 18 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 175 SF
LIGHT REQ (10%): 18 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 403 SF
LIGHT REQ (10%): 40 SF
PROVIDED: 62 SF
AIR REQ (2.5%): 10 SF
PROVIDED: 31 SF

OCCUPANCY GROUP D-2
199 SF

OCCUPANCY GROUP B-2
96 SF

OCCUPANCY GROUP D-2
475 SF

LIVING/KITCHEN 600 SF
LIGHT REQ (10%): 60 SF
PROVIDED: 119 SF
AIR REQ (2.5%): 15 SF
PROVIDED: 59 SF

BEDROOM 136 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 3 SF
PROVIDED: 17 SF

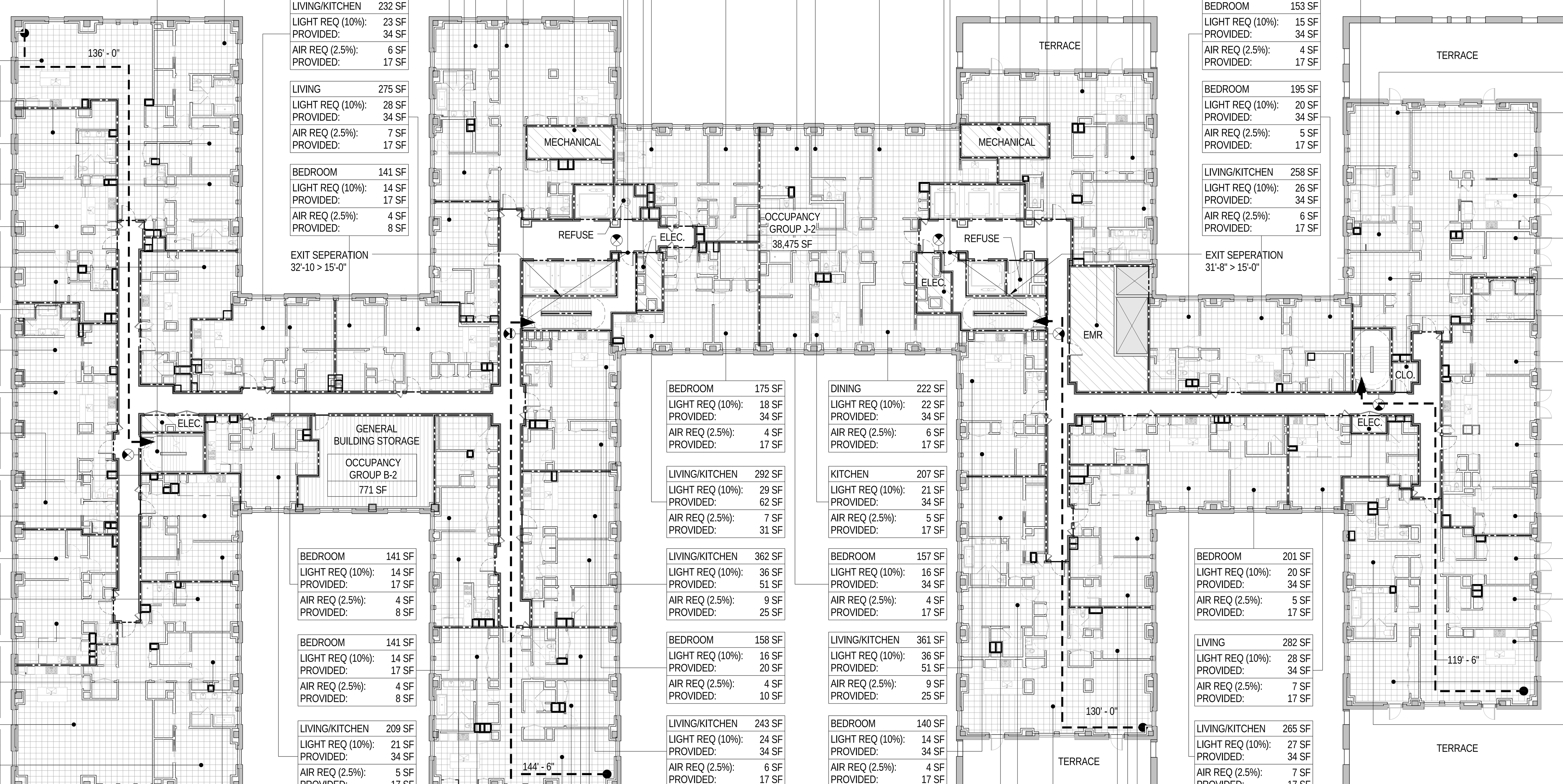
BEDROOM 168 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 153 SF
LIGHT REQ (10%): 15 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 195 SF
LIGHT REQ (10%): 20 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

LIVING/KITCHEN 258 SF
LIGHT REQ (10%): 26 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

EXIT SEPERATION
31'-8" > 15'-0"



LIBRARY 193 SF
LIGHT REQ (10%): 19 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 241 SF
LIGHT REQ (10%): 24 SF
PROVIDED: 58 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 41 SF

LIVING 543 SF
LIGHT REQ (10%): 54 SF
PROVIDED: 54 SF
AIR REQ (2.5%): 14 SF
PROVIDED: 83 SF

KITCHEN 232 SF
LIGHT REQ (10%): 23 SF
PROVIDED: 48 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 48 SF

BEDROOM 118 SF
LIGHT REQ (10%): 12 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 3 SF
PROVIDED: 17 SF

BEDROOM 167 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

OCCUPANCY GROUP B-2
52 SF

BEDROOM 214 SF
LIGHT REQ (10%): 21 SF
PROVIDED: 48 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 48 SF

LIVING/KITCHEN 514 SF
LIGHT REQ (10%): 51 SF
PROVIDED: 76 SF
AIR REQ (2.5%): 13 SF
PROVIDED: 62 SF

OCCUPANCY GROUP D-2
43 SF

BEDROOM 166 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 152 SF
LIGHT REQ (10%): 15 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 145 SF
LIGHT REQ (10%): 15 SF
PROVIDED: 48 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 48 SF

LIVING/KITCHEN 522 SF
LIGHT REQ (10%): 52 SF
PROVIDED: 54 SF
AIR REQ (2.5%): 13 SF
PROVIDED: 83 SF

BEDROOM 246 SF
LIGHT REQ (10%): 25 SF
PROVIDED: 58 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 41 SF

BEDROOM 110 SF
LIGHT REQ (10%): 11 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 3 SF
PROVIDED: 17 SF

BEDROOM 175 SF
LIGHT REQ (10%): 18 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

DINING 222 SF
LIGHT REQ (10%): 22 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

LIVING/KITCHEN 292 SF
LIGHT REQ (10%): 29 SF
PROVIDED: 62 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 31 SF

KITCHEN 207 SF
LIGHT REQ (10%): 21 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 17 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 8 SF

LIVING/KITCHEN 362 SF
LIGHT REQ (10%): 36 SF
PROVIDED: 51 SF
AIR REQ (2.5%): 9 SF
PROVIDED: 25 SF

BEDROOM 157 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 201 SF
LIGHT REQ (10%): 20 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 17 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 8 SF

BEDROOM 158 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 20 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 10 SF

LIVING/KITCHEN 361 SF
LIGHT REQ (10%): 36 SF
PROVIDED: 51 SF
AIR REQ (2.5%): 9 SF
PROVIDED: 25 SF

LIVING 282 SF
LIGHT REQ (10%): 28 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 17 SF

LIVING/KITCHEN 209 SF
LIGHT REQ (10%): 21 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

LIVING/KITCHEN 243 SF
LIGHT REQ (10%): 24 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

BEDROOM 140 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 265 SF
LIGHT REQ (10%): 27 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 17 SF

BEDROOM 144 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 174 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 229 SF
LIGHT REQ (10%): 23 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

LIVING 200 SF
LIGHT REQ (10%): 20 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

LIVING/KITCHEN 290 SF
LIGHT REQ (10%): 29 SF
PROVIDED: 68 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 34 SF

BEDROOM 155 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 143 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 157 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 174 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 140 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 20 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 10 SF

LIVING/KITCHEN 838 SF
LIGHT REQ (10%): 84 SF
PROVIDED: 209 SF
AIR REQ (2.5%): 21 SF
PROVIDED: 152 SF

BEDROOM 157 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 593 SF
LIGHT REQ (10%): 59 SF
PROVIDED: 113 SF
AIR REQ (2.5%): 15 SF
PROVIDED: 56 SF

EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	80	75
STAIR F	55	2.5	75	44	2	80	75
TOTAL							390

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L13			
OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	1,007	200	7
D-2 (F-2)	1,217	200	9
J-2 (R-2)	38,475	140	275
TOTAL			291

1 LEVEL 13 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:
B-2 STORAGE
C MERCANTILE
D-2 INDUSTRIAL (MECH. SPACES)
F-3, F-4 ASSEMBLY
J-1, J2 RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:
B-2 75'
C, D-2, E 100'
F-4 80'
J-1, J-2 50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:
B-2, C, J-1, J-2 36"
D-2, E, F-4 44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:
C, D-2, E 100'
F-4 60'
J-1, J-2 80'
B-2 NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):
MAXIMUM RISER 7 3/4"
MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES

2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
0' 0" TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

DEPT OF BLDGS 121191245 Job Number
ES210695568 Scan Code

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

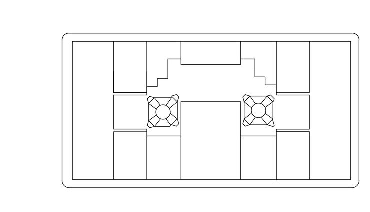
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-027.00

PAGE NUMBER

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EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

OCCUPANCY GROUP B-2 96 SF

LIVING/KITCHEN 736 SF / LIGHT REQ (10%): 74 SF / PROVIDED: 99 SF / AIR REQ (2.5%): 18 SF / PROVIDED: 49 SF

BEDROOM 187 SF / LIGHT REQ (10%): 19 SF / PROVIDED: 40 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 20 SF

BEDROOM 163 SF / LIGHT REQ (10%): 16 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 221 SF / LIGHT REQ (10%): 22 SF / PROVIDED: 40 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 20 SF

LIVING/KITCHEN 271 SF / LIGHT REQ (10%): 27 SF / PROVIDED: 68 SF / AIR REQ (2.5%): 7 SF / PROVIDED: 34 SF

LIVING/KITCHEN 232 SF / LIGHT REQ (10%): 23 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 17 SF

LIVING 275 SF / LIGHT REQ (10%): 28 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 7 SF / PROVIDED: 17 SF

BEDROOM 141 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 17 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 8 SF

LIVING/KITCHEN 707 SF / LIGHT REQ (10%): 71 SF / PROVIDED: 110 SF / AIR REQ (2.5%): 18 SF / PROVIDED: 55 SF

BEDROOM 141 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

LIVING/KITCHEN 307 SF / LIGHT REQ (10%): 31 SF / PROVIDED: 37 SF / AIR REQ (2.5%): 8 SF / PROVIDED: 18 SF

BEDROOM 158 SF / LIGHT REQ (10%): 16 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

LIVING/KITCHEN 497 SF / LIGHT REQ (10%): 50 SF / PROVIDED: 68 SF / AIR REQ (2.5%): 12 SF / PROVIDED: 34 SF

OCCUPANCY GROUP D-2 76 SF

BEDROOM 171 SF / LIGHT REQ (10%): 17 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

LIVING/KITCHEN 275 SF / LIGHT REQ (10%): 28 SF / PROVIDED: 40 SF / AIR REQ (2.5%): 7 SF / PROVIDED: 20 SF

LIVING/KITCHEN 897 SF / LIGHT REQ (10%): 90 SF / PROVIDED: 130 SF / AIR REQ (2.5%): 22 SF / PROVIDED: 65 SF

BEDROOM 262 SF / LIGHT REQ (10%): 26 SF / PROVIDED: 40 SF / AIR REQ (2.5%): 7 SF / PROVIDED: 20 SF

BEDROOM 170 SF / LIGHT REQ (10%): 17 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

LIVING 269 SF / LIGHT REQ (10%): 27 SF / PROVIDED: 35 SF / AIR REQ (2.5%): 7 SF / PROVIDED: 18 SF

BEDROOM 183 SF / LIGHT REQ (10%): 18 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 17 SF

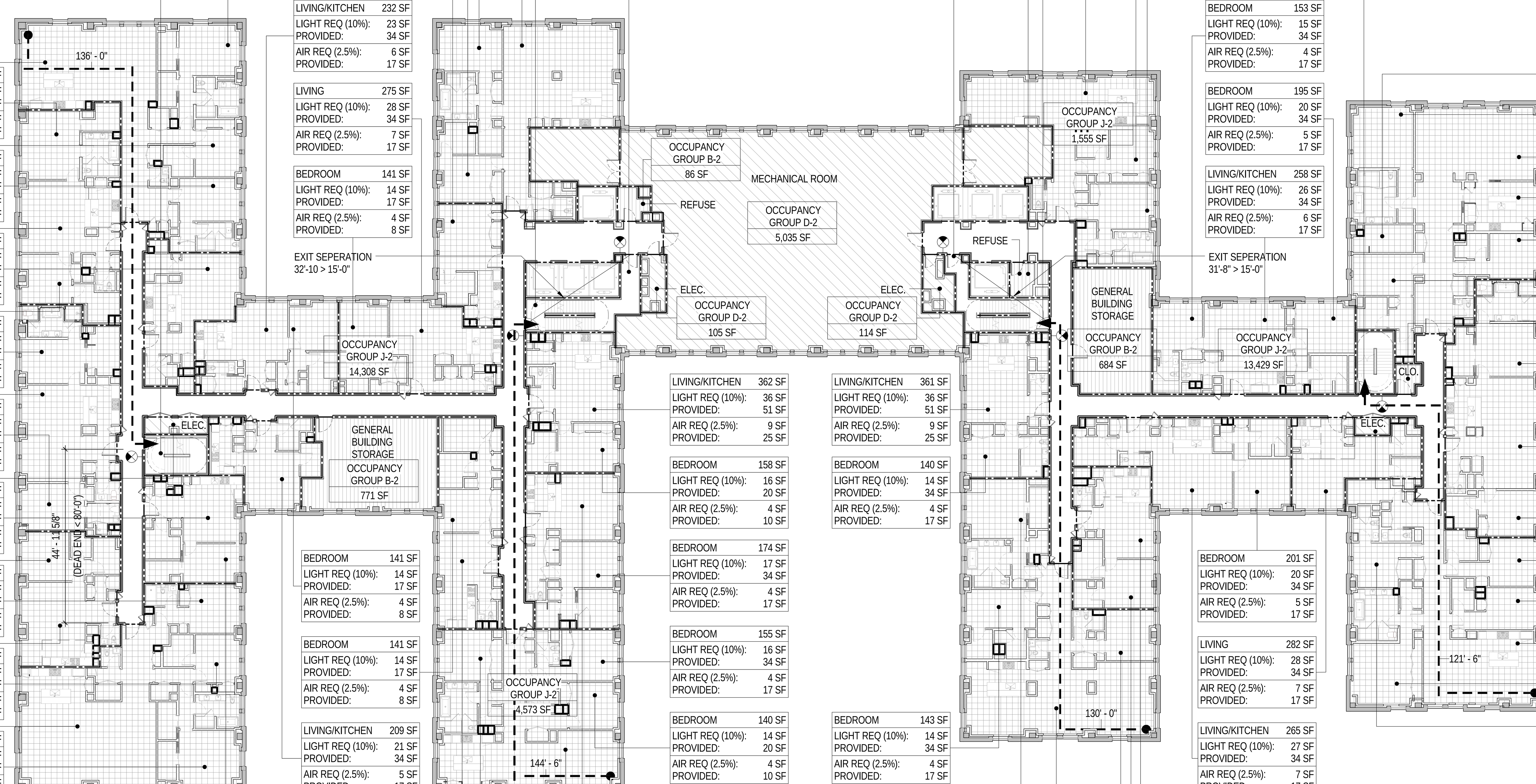
BEDROOM 187 SF / LIGHT REQ (10%): 19 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 17 SF

LIVING/KITCHEN 162 SF / LIGHT REQ (10%): 16 SF / PROVIDED: 20 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 10 SF

BEDROOM 162 SF / LIGHT REQ (10%): 16 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 141 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 223 SF / LIGHT REQ (10%): 22 SF / PROVIDED: 40 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 20 SF



LIVING/KITCHEN 600 SF / LIGHT REQ (10%): 60 SF / PROVIDED: 119 SF / AIR REQ (2.5%): 15 SF / PROVIDED: 59 SF

BEDROOM 136 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 3 SF / PROVIDED: 17 SF

BEDROOM 168 SF / LIGHT REQ (10%): 17 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 153 SF / LIGHT REQ (10%): 15 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 195 SF / LIGHT REQ (10%): 20 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 17 SF

LIVING/KITCHEN 258 SF / LIGHT REQ (10%): 26 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 17 SF

LIBRARY 193 SF / LIGHT REQ (10%): 19 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 17 SF

BEDROOM 245 SF / LIGHT REQ (10%): 25 SF / PROVIDED: 54 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 27 SF

LIVING 543 SF / LIGHT REQ (10%): 54 SF / PROVIDED: 79 SF / AIR REQ (2.5%): 14 SF / PROVIDED: 40 SF

KITCHEN 232 SF / LIGHT REQ (10%): 23 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 17 SF

BEDROOM 118 SF / LIGHT REQ (10%): 12 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 3 SF / PROVIDED: 17 SF

BEDROOM 167 SF / LIGHT REQ (10%): 17 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

OCCUPANCY GROUP B-2 52 SF

BEDROOM 214 SF / LIGHT REQ (10%): 21 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 17 SF

LIVING/KITCHEN 515 SF / LIGHT REQ (10%): 52 SF / PROVIDED: 68 SF / AIR REQ (2.5%): 13 SF / PROVIDED: 34 SF

OCCUPANCY GROUP D-2 43 SF

BEDROOM 166 SF / LIGHT REQ (10%): 17 SF / PROVIDED: 20 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 10 SF

BEDROOM 149 SF / LIGHT REQ (10%): 15 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 148 SF / LIGHT REQ (10%): 15 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

LIVING/KITCHEN 522 SF / LIGHT REQ (10%): 52 SF / PROVIDED: 79 SF / AIR REQ (2.5%): 13 SF / PROVIDED: 40 SF

BEDROOM 246 SF / LIGHT REQ (10%): 25 SF / PROVIDED: 54 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 27 SF

BEDROOM 110 SF / LIGHT REQ (10%): 11 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 3 SF / PROVIDED: 17 SF

LIVING/KITCHEN 362 SF / LIGHT REQ (10%): 36 SF / PROVIDED: 51 SF / AIR REQ (2.5%): 9 SF / PROVIDED: 25 SF

LIVING/KITCHEN 361 SF / LIGHT REQ (10%): 36 SF / PROVIDED: 51 SF / AIR REQ (2.5%): 9 SF / PROVIDED: 25 SF

BEDROOM 158 SF / LIGHT REQ (10%): 16 SF / PROVIDED: 20 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 10 SF

BEDROOM 140 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 174 SF / LIGHT REQ (10%): 17 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 155 SF / LIGHT REQ (10%): 16 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 140 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 20 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 10 SF

BEDROOM 143 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

LIVING/KITCHEN 243 SF / LIGHT REQ (10%): 24 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 17 SF

BEDROOM 229 SF / LIGHT REQ (10%): 23 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 6 SF / PROVIDED: 17 SF

LIVING/KITCHEN 593 SF / LIGHT REQ (10%): 59 SF / PROVIDED: 113 SF / AIR REQ (2.5%): 15 SF / PROVIDED: 56 SF

LIVING/KITCHEN 838 SF / LIGHT REQ (10%): 84 SF / PROVIDED: 209 SF / AIR REQ (2.5%): 21 SF / PROVIDED: 152 SF

BEDROOM 141 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 17 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 8 SF

BEDROOM 141 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 17 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 8 SF

LIVING/KITCHEN 209 SF / LIGHT REQ (10%): 21 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 17 SF

BEDROOM 144 SF / LIGHT REQ (10%): 14 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

LIVING/KITCHEN 290 SF / LIGHT REQ (10%): 29 SF / PROVIDED: 68 SF / AIR REQ (2.5%): 7 SF / PROVIDED: 34 SF

BEDROOM 174 SF / LIGHT REQ (10%): 17 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 201 SF / LIGHT REQ (10%): 20 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 17 SF

LIVING 282 SF / LIGHT REQ (10%): 28 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 7 SF / PROVIDED: 17 SF

LIVING/KITCHEN 265 SF / LIGHT REQ (10%): 27 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 7 SF / PROVIDED: 17 SF

LIVING 200 SF / LIGHT REQ (10%): 20 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 5 SF / PROVIDED: 17 SF

BEDROOM 157 SF / LIGHT REQ (10%): 16 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

BEDROOM 157 SF / LIGHT REQ (10%): 16 SF / PROVIDED: 34 SF / AIR REQ (2.5%): 4 SF / PROVIDED: 17 SF

EXIT STAIR CAPACITY

STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	80	75
STAIR F	55	2.5	75	44	2	80	75
TOTAL							390

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L14

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	1,689	200	11
D-2 (F-2)	5,254	200	28
J-2 (R-2)	33,864	140	244
TOTAL			283

1 LEVEL 14 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER 7 3/4"
MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES

2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
0' 0" TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

DEPT OF BLDGS 121191245 Job Number
ES802933681 Scan Code

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

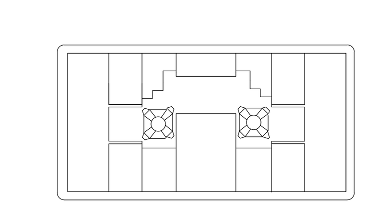
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-028.00

PAGE NUMBER
12 OF 137

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EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

OCCUPANCY GROUP B-2
96 SF

LIVING/KITCHEN 622 SF
LIGHT REQ (10%): 62 SF
PROVIDED: 79 SF
AIR REQ (2.5%): 16 SF
PROVIDED: 40 SF

BEDROOM 187 SF
LIGHT REQ (10%): 19 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 20 SF

BEDROOM 163 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 271 SF
LIGHT REQ (10%): 27 SF
PROVIDED: 68 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 34 SF

BEDROOM 221 SF
LIGHT REQ (10%): 22 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 20 SF

LIVING 275 SF
LIGHT REQ (10%): 28 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 17 SF

LIVING/KITCHEN 232 SF
LIGHT REQ (10%): 23 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 17 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 8 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 17 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 8 SF

EXIT SEPERATION
32'-10 > 15'-0"

BEDROOM 131 SF
LIGHT REQ (10%): 13 SF
PROVIDED: 20 SF
AIR REQ (2.5%): 3 SF
PROVIDED: 10 SF

LIVING/DINING 590 SF
LIGHT REQ (10%): 59 SF
PROVIDED: 79 SF
AIR REQ (2.5%): 15 SF
PROVIDED: 40 SF

LIBRARY 214 SF
LIGHT REQ (10%): 21 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 20 SF

KITCHEN 199 SF
LIGHT REQ (10%): 20 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 144 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 191 SF
LIGHT REQ (10%): 19 SF
PROVIDED: 37 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 18 SF

BEDROOM 198 SF
LIGHT REQ (10%): 20 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 193 SF
LIGHT REQ (10%): 19 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

LIVING/KITCHEN 245 SF
LIGHT REQ (10%): 25 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

EXIT SEPERATION
31'-8" > 15'-0"

LIBRARY 193 SF
LIGHT REQ (10%): 19 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 245 SF
LIGHT REQ (10%): 25 SF
PROVIDED: 54 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 27 SF

LIVING 543 SF
LIGHT REQ (10%): 54 SF
PROVIDED: 79 SF
AIR REQ (2.5%): 14 SF
PROVIDED: 40 SF

KITCHEN 232 SF
LIGHT REQ (10%): 23 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

BEDROOM 118 SF
LIGHT REQ (10%): 12 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 3 SF
PROVIDED: 17 SF

BEDROOM 167 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 707 SF
LIGHT REQ (10%): 71 SF
PROVIDED: 110 SF
AIR REQ (2.5%): 18 SF
PROVIDED: 55 SF

BEDROOM 262 SF
LIGHT REQ (10%): 26 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 20 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 170 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 307 SF
LIGHT REQ (10%): 31 SF
PROVIDED: 37 SF
AIR REQ (2.5%): 8 SF
PROVIDED: 18 SF

LIVING 269 SF
LIGHT REQ (10%): 27 SF
PROVIDED: 35 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 18 SF

BEDROOM 158 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 183 SF
LIGHT REQ (10%): 18 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

LIVING/KITCHEN 497 SF
LIGHT REQ (10%): 50 SF
PROVIDED: 68 SF
AIR REQ (2.5%): 12 SF
PROVIDED: 34 SF

BEDROOM 187 SF
LIGHT REQ (10%): 19 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

OCCUPANCY GROUP D-2
82 SF

LIVING/KITCHEN 162 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 20 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 10 SF

BEDROOM 171 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

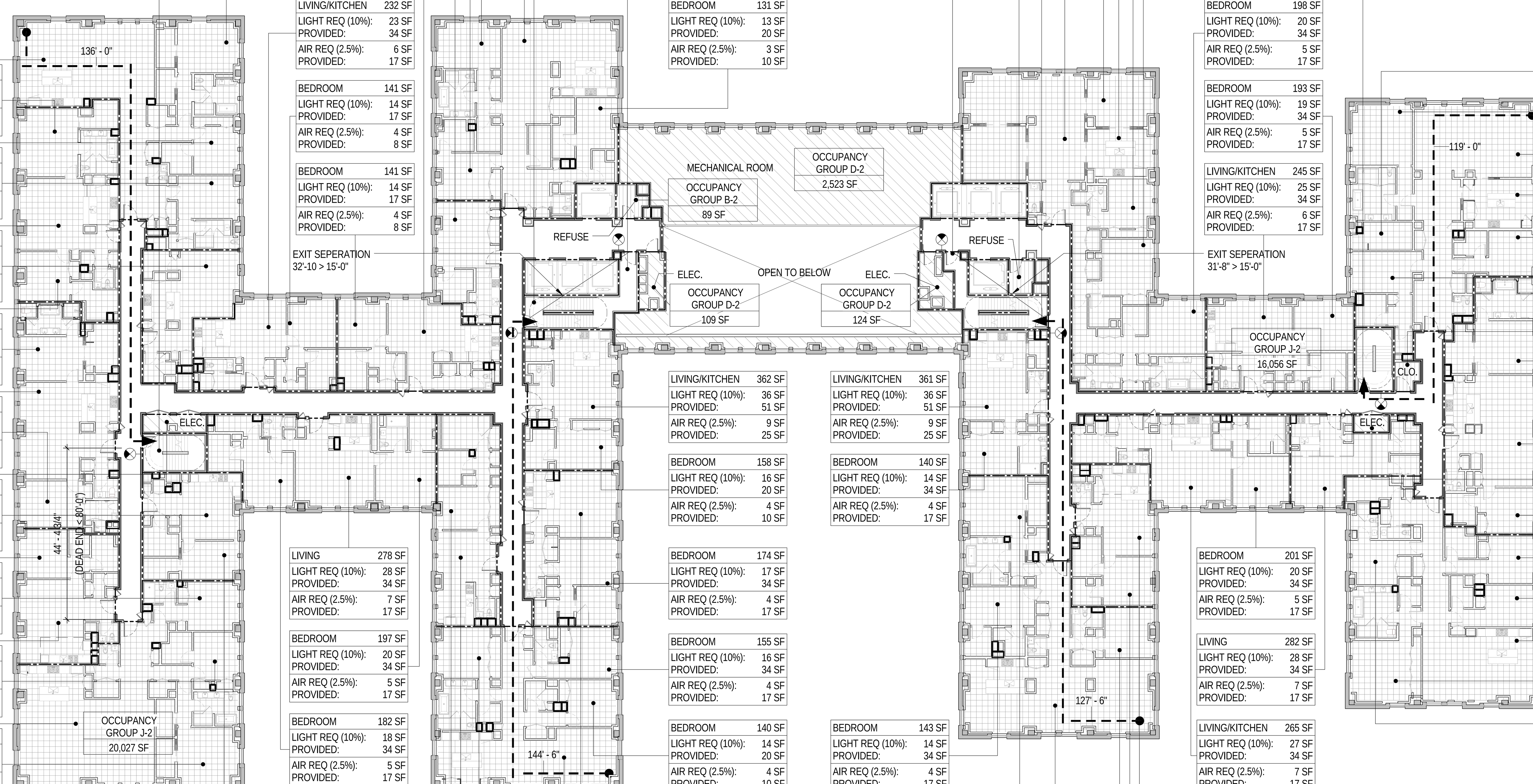
BEDROOM 162 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 275 SF
LIGHT REQ (10%): 28 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 20 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 897 SF
LIGHT REQ (10%): 90 SF
PROVIDED: 130 SF
AIR REQ (2.5%): 22 SF
PROVIDED: 65 SF

BEDROOM 223 SF
LIGHT REQ (10%): 22 SF
PROVIDED: 40 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 20 SF



OCCUPANCY GROUP B-2
52 SF

BEDROOM 214 SF
LIGHT REQ (10%): 21 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

LIVING/KITCHEN 515 SF
LIGHT REQ (10%): 52 SF
PROVIDED: 68 SF
AIR REQ (2.5%): 13 SF
PROVIDED: 34 SF

OCCUPANCY GROUP D-2
43 SF

BEDROOM 166 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 20 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 10 SF

BEDROOM 149 SF
LIGHT REQ (10%): 15 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 148 SF
LIGHT REQ (10%): 15 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 522 SF
LIGHT REQ (10%): 52 SF
PROVIDED: 79 SF
AIR REQ (2.5%): 13 SF
PROVIDED: 40 SF

BEDROOM 246 SF
LIGHT REQ (10%): 25 SF
PROVIDED: 54 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 27 SF

BEDROOM 110 SF
LIGHT REQ (10%): 11 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 3 SF
PROVIDED: 17 SF

LIVING/KITCHEN 362 SF
LIGHT REQ (10%): 36 SF
PROVIDED: 51 SF
AIR REQ (2.5%): 9 SF
PROVIDED: 25 SF

LIVING/KITCHEN 361 SF
LIGHT REQ (10%): 36 SF
PROVIDED: 51 SF
AIR REQ (2.5%): 9 SF
PROVIDED: 25 SF

BEDROOM 158 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 20 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 10 SF

BEDROOM 140 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING 278 SF
LIGHT REQ (10%): 28 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 17 SF

BEDROOM 174 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 201 SF
LIGHT REQ (10%): 20 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 197 SF
LIGHT REQ (10%): 20 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 155 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING 282 SF
LIGHT REQ (10%): 28 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 17 SF

BEDROOM 182 SF
LIGHT REQ (10%): 18 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 140 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 20 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 10 SF

BEDROOM 143 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 265 SF
LIGHT REQ (10%): 27 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 17 SF

BEDROOM 141 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 17 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 8 SF

LIVING/KITCHEN 243 SF
LIGHT REQ (10%): 24 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

BEDROOM 229 SF
LIGHT REQ (10%): 23 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 6 SF
PROVIDED: 17 SF

LIVING 200 SF
LIGHT REQ (10%): 20 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 5 SF
PROVIDED: 17 SF

BEDROOM 144 SF
LIGHT REQ (10%): 14 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 593 SF
LIGHT REQ (10%): 59 SF
PROVIDED: 113 SF
AIR REQ (2.5%): 15 SF
PROVIDED: 56 SF

LIVING/KITCHEN 838 SF
LIGHT REQ (10%): 84 SF
PROVIDED: 209 SF
AIR REQ (2.5%): 21 SF
PROVIDED: 152 SF

BEDROOM 157 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

LIVING/KITCHEN 290 SF
LIGHT REQ (10%): 29 SF
PROVIDED: 68 SF
AIR REQ (2.5%): 7 SF
PROVIDED: 34 SF

BEDROOM 157 SF
LIGHT REQ (10%): 16 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

BEDROOM 174 SF
LIGHT REQ (10%): 17 SF
PROVIDED: 34 SF
AIR REQ (2.5%): 4 SF
PROVIDED: 17 SF

EXIT STAIR CAPACITY

STAIR	STAIR WIDTH	STAIR UNITS	STAIR CAPACITY	DOOR WIDTH	DOOR UNITS	DOOR CAPACITY	TOTAL CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	80	75
STAIR F	55	2.5	75	44	2	80	75
TOTAL							390

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L15

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	236	200	3
D-2 (F-2)	2,756	200	15
J-2 (R-2)	36,083	140	259
TOTAL			277

1 LEVEL 15 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE
BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION
DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS
DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:
B-2 STORAGE
C MERCANTILE
D-2 INDUSTRIAL (MECH. SPACES)
F-3, F-4 ASSEMBLY
J-1, J2 RESIDENTIAL

BUILDING LIMITATIONS
AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS
FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

(REQUIRED RATING: FIRE SEPARATION / FIRE DIVISION)

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS
CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:
B-2 75'
C, D-2, E 100'
F-4 80'
J-1, J-2 50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:
B-2, C, J-1, J-2 36"
D-2, E, F-4 44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:
C, D-2, E 100'
F-4 60'
J-1, J-2 80'
B-2 NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS
ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS
ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS
STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):
MAXIMUM RISER 7 3/4"
MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES
FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND
EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0' 0" EGRESS PATH TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

DEPT OF BLDGS 121191245 Job Number
ES599638770 Scan Code

WALDORF ASTORIA
301 Park Ave.
New York, NY 10022

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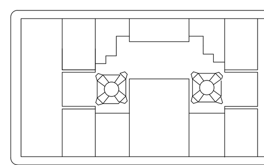
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN


SEAL
REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
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DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-029.00

PAGE NUMBER
13 OF 137

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EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

OCCUPANCY GROUP B-2 — 96 SF

OCCUPANCY GROUP B-2 — 89 SF

OCCUPANCY GROUP D-2 — 103 SF

OCCUPANCY GROUP D-2 — 124 SF

OCCUPANCY GROUP D-2 — 82 SF

OCCUPANCY GROUP D-2 — 43 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
LIVING/KITCHEN	707 SF	71 SF	110 SF	18 SF	55 SF
BEDROOM	141 SF	14 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	307 SF	31 SF	37 SF	8 SF	18 SF
BEDROOM	158 SF	16 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	497 SF	50 SF	68 SF	12 SF	34 SF
BEDROOM	171 SF	17 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	275 SF	28 SF	40 SF	7 SF	20 SF
LIVING/KITCHEN	897 SF	90 SF	130 SF	22 SF	65 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
BEDROOM	262 SF	26 SF	40 SF	7 SF	20 SF
BEDROOM	170 SF	17 SF	34 SF	4 SF	17 SF
LIVING	269 SF	27 SF	35 SF	7 SF	18 SF
BEDROOM	183 SF	18 SF	34 SF	5 SF	17 SF
BEDROOM	187 SF	19 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	162 SF	16 SF	20 SF	4 SF	10 SF
BEDROOM	162 SF	16 SF	34 SF	4 SF	17 SF
BEDROOM	141 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	223 SF	22 SF	40 SF	6 SF	20 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
BEDROOM	221 SF	22 SF	40 SF	6 SF	20 SF
LIVING/KITCHEN	1,081 SF	108 SF	147 SF	27 SF	97 SF
BEDROOM	177 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	237 SF	24 SF	51 SF	6 SF	25 SF
LIVING/KITCHEN	232 SF	23 SF	34 SF	6 SF	17 SF
LIVING	275 SF	28 SF	34 SF	7 SF	17 SF
BEDROOM	141 SF	14 SF	17 SF	4 SF	8 SF

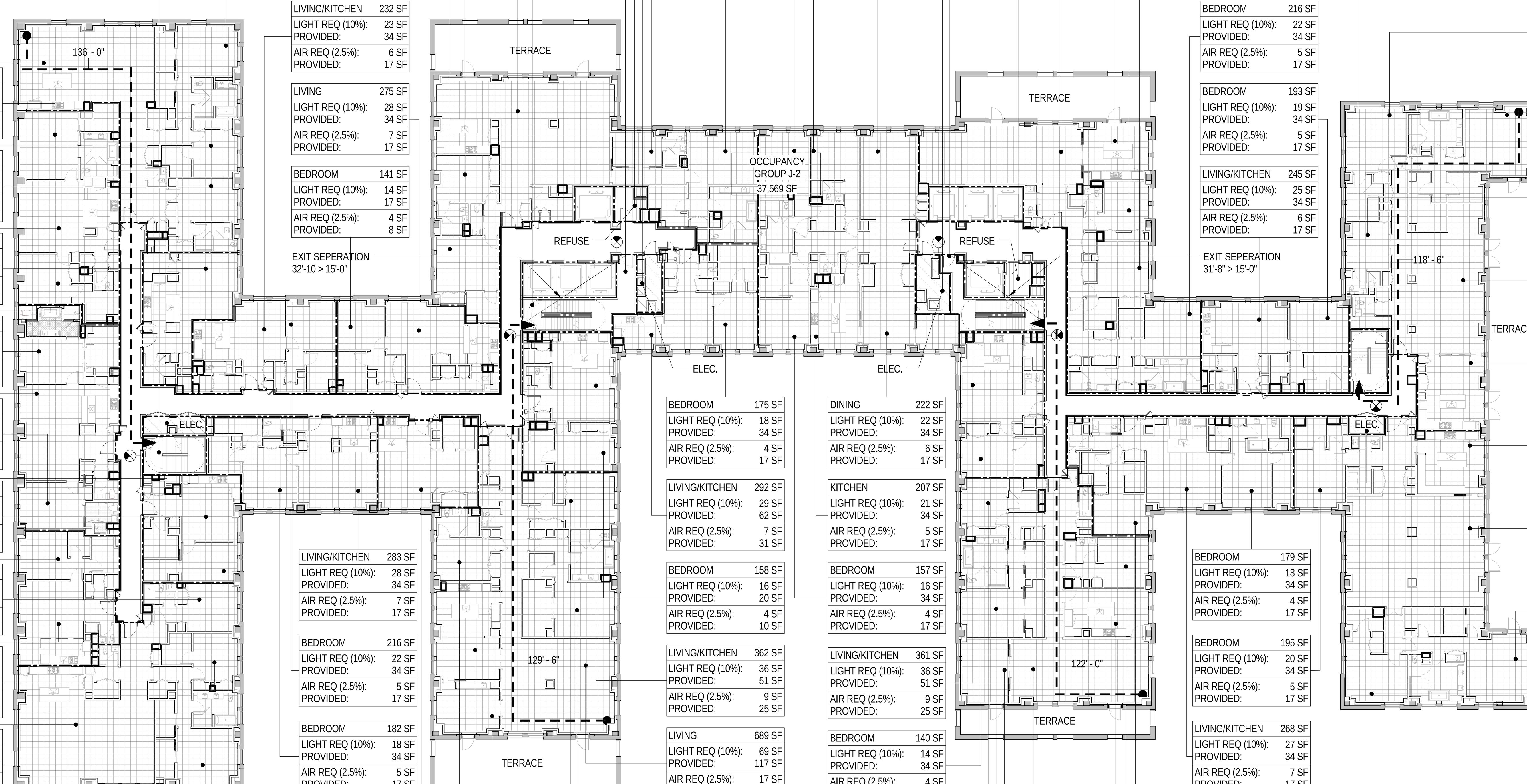
EXIT SEPERATION 32'-10 > 15'-0"

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
LIBRARY	113 SF	11 SF	28 SF	3 SF	14 SF
BEDROOM	241 SF	24 SF	51 SF	6 SF	25 SF
BEDROOM	178 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	403 SF	40 SF	48 SF	10 SF	24 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
LIVING/DINING	627 SF	63 SF	79 SF	16 SF	40 SF
KITCHEN	238 SF	24 SF	68 SF	6 SF	34 SF
BEDROOM	144 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	193 SF	19 SF	37 SF	5 SF	18 SF
BEDROOM	216 SF	22 SF	34 SF	5 SF	17 SF
BEDROOM	193 SF	19 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	245 SF	25 SF	34 SF	6 SF	17 SF

EXIT SEPERATION 31'-8" > 15'-0"

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
BEDROOM	237 SF	24 SF	54 SF	6 SF	27 SF
BEDROOM	296 SF	30 SF	64 SF	7 SF	44 SF
BEDROOM	131 SF	13 SF	34 SF	3 SF	17 SF
LIVING	916 SF	92 SF	102 SF	23 SF	75 SF
KITCHEN	291 SF	29 SF	58 SF	7 SF	41 SF
KITCHEN	273 SF	27 SF	48 SF	7 SF	48 SF
LIVING	997 SF	100 SF	118 SF	25 SF	59 SF
BEDROOM	287 SF	29 SF	64 SF	7 SF	44 SF
BEDROOM	223 SF	22 SF	54 SF	6 SF	27 SF



ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
LIVING/KITCHEN	283 SF	28 SF	34 SF	7 SF	17 SF
BEDROOM	216 SF	22 SF	34 SF	5 SF	17 SF
BEDROOM	182 SF	18 SF	34 SF	5 SF	17 SF
BEDROOM	144 SF	14 SF	34 SF	4 SF	17 SF
LIVING	283 SF	28 SF	34 SF	7 SF	17 SF
BEDROOM	155 SF	16 SF	34 SF	4 SF	17 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	292 SF	29 SF	62 SF	7 SF	31 SF
BEDROOM	158 SF	16 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	362 SF	36 SF	51 SF	9 SF	25 SF
LIVING	689 SF	69 SF	117 SF	17 SF	88 SF
BEDROOM	212 SF	21 SF	34 SF	5 SF	17 SF
BEDROOM	177 SF	18 SF	34 SF	4 SF	17 SF
LIBRARY	198 SF	20 SF	87 SF	5 SF	58 SF
KITCHEN	380 SF	38 SF	68 SF	10 SF	34 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
DINING	222 SF	22 SF	34 SF	6 SF	17 SF
KITCHEN	207 SF	21 SF	34 SF	5 SF	17 SF
BEDROOM	157 SF	16 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	361 SF	36 SF	51 SF	9 SF	25 SF
BEDROOM	140 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	140 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	196 SF	20 SF	34 SF	5 SF	17 SF
LIBRARY	195 SF	20 SF	48 SF	5 SF	48 SF
LIVING	571 SF	57 SF	117 SF	14 SF	71 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
BEDROOM	179 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	195 SF	20 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	268 SF	27 SF	34 SF	7 SF	17 SF
BEDROOM	138 SF	14 SF	17 SF	3 SF	8 SF
BEDROOM	158 SF	16 SF	34 SF	4 SF	17 SF
KITCHEN	254 SF	25 SF	34 SF	6 SF	17 SF

EXIT STAIR CAPACITY							
STAIR	STAIR WIDTH	STAIR UNITS	STAIR CAPACITY	DOOR WIDTH	DOOR UNITS	DOOR CAPACITY	TOTAL CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	80	75
STAIR F	55	2.5	75	44	2	80	75
TOTAL							390

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L16			
OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	184	200	2
D-2 (F-2)	228	200	2
J-2 (R-2)	37,569	140	269
TOTAL			273

1 LEVEL 16 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:

B-2 STORAGE
C MERCANTILE
D-2 INDUSTRIAL (MECH. SPACES)
F-3, F-4 ASSEMBLY
J-1, J2 RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	REQUIRED RATING: FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
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F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
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B-2 75'
C, D-2, E 100'
F-4 80'
J-1, J-2 50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:
B-2, C, J-1, J-2 36"
D-2, E, F-4 44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:
C, D-2, E 100'
F-4 60'
J-1, J-2 80'
B-2 NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

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ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

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STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER 7 3/4"
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PLUMBING FACILITIES

2014 NYC PLUMBING CODE

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FIXTURE	REQUIRED
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LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0' 0" EGRESS PATH TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

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Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

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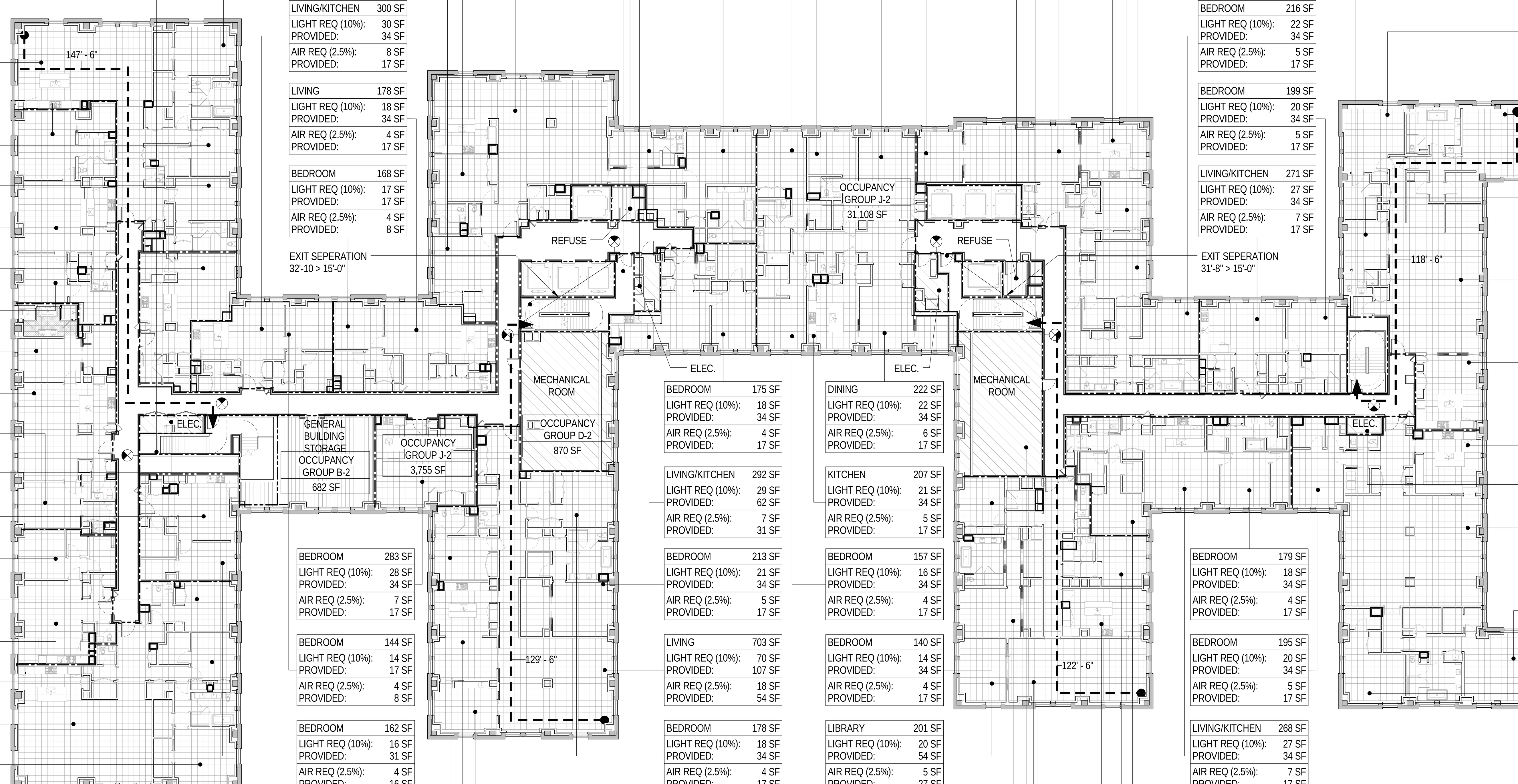
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

OCCUPANCY GROUP B-2 85 SF

OCCUPANCY GROUP D-2 105 SF

OCCUPANCY GROUP D-2 117 SF

OCCUPANCY GROUP B-2 96 SF



EXIT SEPERATION
32'-10 > 15'-0"

EXIT SEPERATION
31'-8" > 15'-0"

Room	Area	Light req (10%)	Provided	Air req (2.5%)	Provided
LIVING/KITCHEN	707 SF	71 SF	110 SF	18 SF	55 SF
BEDROOM	141 SF	14 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	307 SF	31 SF	37 SF	8 SF	18 SF
BEDROOM	158 SF	16 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	497 SF	50 SF	68 SF	12 SF	34 SF
BEDROOM	171 SF	17 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	275 SF	28 SF	40 SF	7 SF	20 SF
LIVING/KITCHEN	897 SF	90 SF	130 SF	22 SF	65 SF
BEDROOM	262 SF	26 SF	40 SF	7 SF	20 SF
BEDROOM	170 SF	17 SF	34 SF	4 SF	17 SF
LIVING	269 SF	27 SF	35 SF	7 SF	18 SF
BEDROOM	183 SF	18 SF	34 SF	5 SF	17 SF
BEDROOM	187 SF	19 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	162 SF	16 SF	20 SF	4 SF	10 SF
BEDROOM	162 SF	16 SF	34 SF	4 SF	17 SF
BEDROOM	141 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	223 SF	22 SF	40 SF	6 SF	20 SF
BEDROOM	221 SF	22 SF	40 SF	6 SF	20 SF
LIVING/KITCHEN	1,081 SF	108 SF	147 SF	27 SF	97 SF
BEDROOM	177 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	237 SF	24 SF	51 SF	6 SF	25 SF
LIVING/KITCHEN	300 SF	30 SF	34 SF	8 SF	17 SF
LIVING	178 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	168 SF	17 SF	17 SF	4 SF	8 SF
LIBRARY	149 SF	15 SF	28 SF	4 SF	14 SF
LIVING/KITCHEN	403 SF	40 SF	48 SF	10 SF	24 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	178 SF	18 SF	34 SF	4 SF	17 SF
LIBRARY	113 SF	11 SF	28 SF	3 SF	14 SF
BEDROOM	241 SF	24 SF	51 SF	6 SF	25 SF
LIVING/DINING	454 SF	45 SF	59 SF	11 SF	30 SF
KITCHEN	238 SF	24 SF	54 SF	6 SF	27 SF
BEDROOM	144 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	193 SF	19 SF	37 SF	5 SF	18 SF
BEDROOM	216 SF	22 SF	34 SF	5 SF	17 SF
BEDROOM	199 SF	20 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	271 SF	27 SF	34 SF	7 SF	17 SF
BEDROOM	237 SF	24 SF	54 SF	6 SF	27 SF
BEDROOM	296 SF	30 SF	64 SF	7 SF	44 SF
BEDROOM	131 SF	13 SF	34 SF	3 SF	17 SF
LIVING	838 SF	84 SF	88 SF	21 SF	44 SF
KITCHEN	291 SF	29 SF	58 SF	7 SF	41 SF
KITCHEN	273 SF	27 SF	48 SF	7 SF	48 SF
LIVING	997 SF	100 SF	118 SF	25 SF	59 SF
BEDROOM	287 SF	29 SF	64 SF	7 SF	44 SF
BEDROOM	223 SF	22 SF	54 SF	6 SF	27 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	292 SF	29 SF	62 SF	7 SF	31 SF
BEDROOM	213 SF	21 SF	34 SF	5 SF	17 SF
LIVING	703 SF	70 SF	107 SF	18 SF	54 SF
BEDROOM	178 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	283 SF	28 SF	34 SF	7 SF	17 SF
BEDROOM	144 SF	14 SF	17 SF	4 SF	8 SF
BEDROOM	162 SF	16 SF	31 SF	4 SF	16 SF
BEDROOM	158 SF	16 SF	34 SF	4 SF	17 SF
KITCHEN	382 SF	38 SF	68 SF	10 SF	34 SF
LIBRARY	204 SF	20 SF	40 SF	5 SF	20 SF
DINING	222 SF	22 SF	34 SF	6 SF	17 SF
KITCHEN	207 SF	21 SF	34 SF	5 SF	17 SF
BEDROOM	157 SF	16 SF	34 SF	4 SF	17 SF
BEDROOM	140 SF	14 SF	34 SF	4 SF	17 SF
LIBRARY	201 SF	20 SF	54 SF	5 SF	27 SF
BEDROOM	196 SF	20 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	582 SF	58 SF	93 SF	15 SF	47 SF
BEDROOM	179 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	195 SF	20 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	268 SF	27 SF	34 SF	7 SF	17 SF
BEDROOM	139 SF	14 SF	17 SF	3 SF	8 SF
BEDROOM	158 SF	16 SF	34 SF	4 SF	17 SF
KITCHEN	254 SF	25 SF	54 SF	6 SF	27 SF

OCCUPANCY GROUP D-2 82 SF

OCCUPANCY GROUP D-2 43 SF

OCCUPANCY GROUP D-2 831 SF

EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL CAPACITY
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	80	75
STAIR F	55	2.5	75	44	2	80	75
TOTAL							390

AREAS AND OCCUPANCY LOADS L17			
OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	863	200	6
D-2 (F-2)	1,922	200	12
J-2 (R-2)	34,862	140	250
TOTAL			268

1 LEVEL 17 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES

2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0' 0" EGRESS PATH TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

DEPT OF BLDGS 121191245 Job Number
ES751896176 Scan Code

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
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MEPF & SITE CIVIL ENGINEER
Stantec Inc.

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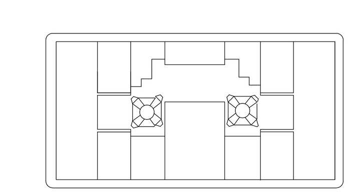
Kroll Inc.

Azmi Zahed-Atkins, RA
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-031.00

PAGE NUMBER
15 OF 137

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DEPT OF BLDGS 121191245 Job Number
ES004377488 Scan Code

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

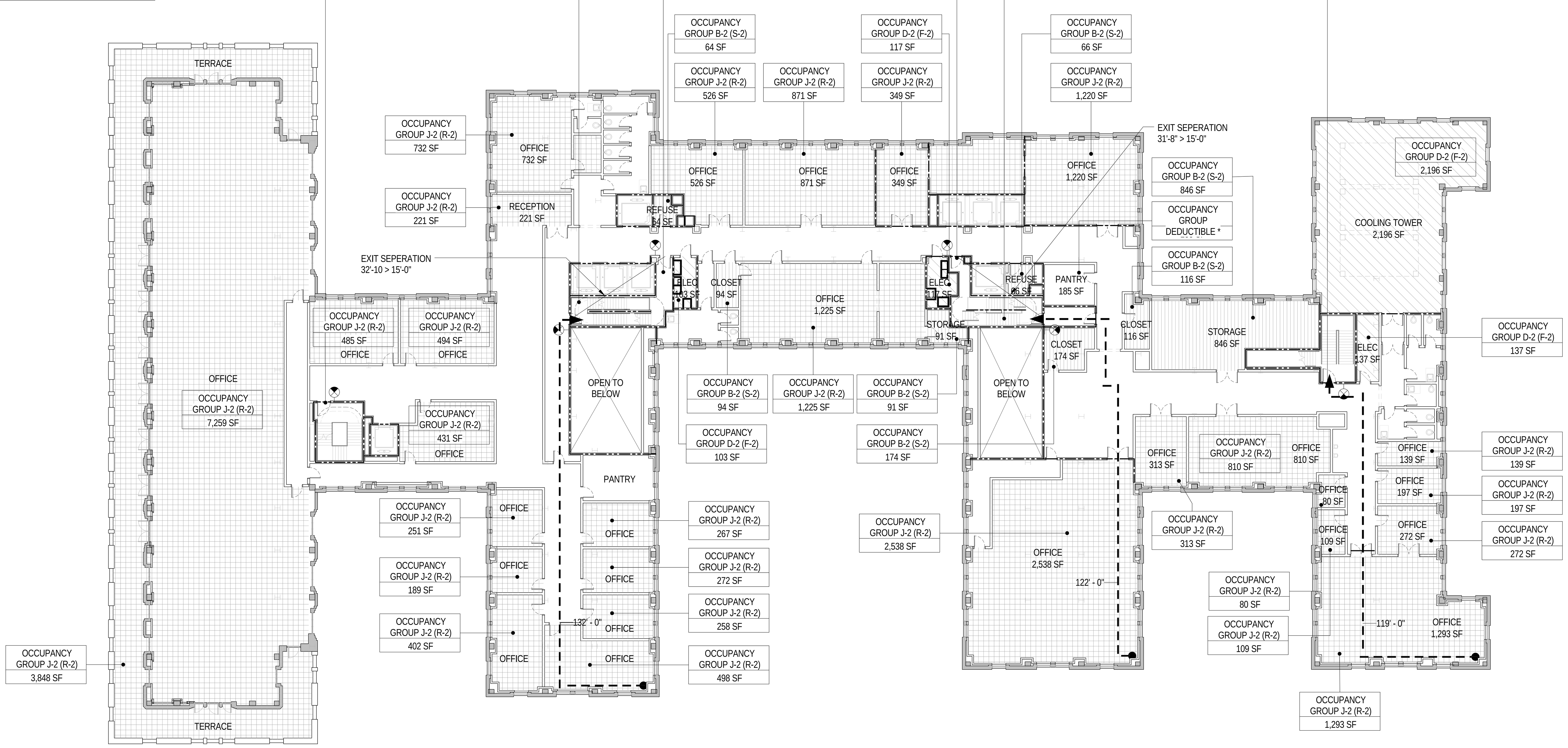
EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 120
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 100 PEOPLE / UNIT= 150 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY:	2 x 60 PEOPLE / UNIT = 120 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 150
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 100 PEOPLE / UNIT= 200 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 60 PEOPLE / UNIT = 150 PEOPLE



EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	44	2	60	36	1.5	60	60
STAIR B	44	2	60	36	1.5	60	60
STAIR C	44	2	60	36	1.5	60	60
STAIR D	44	2	60	36	1.5	60	60
STAIR E	55	2.5	75	44	2	80	75
STAIR F	55	2.5	75	44	2	80	75
TOTAL							390

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L18			
OCCUPANCY GROUP 1968	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	1,450	200	11
D-2 (F-2)	2,553	200	14
J-2 (R-2)*			
Office	80	100	1
Office	109	100	2
Office	139	100	2
Office	189	100	2
Office	197	100	2
Office	251	100	3
Office	258	100	3
Office	267	100	3
Office	272	100	3
Office	272	100	3
Office	313	100	4
Office	349	100	4
Office	402	100	5
Office	431	100	5
Office	485	100	5
Office	494	100	5
Office	498	100	5
Office	526	100	6
Office	732	100	8
Office	810	100	9
Office	871	100	9
Office	1,220	100	13
Office	1,225	100	13
Office	1,293	100	13
Office	2,538	100	26
Office	7,259	100	73
Reception	221	100	3
Terrace	2,848	D	74
TOTAL	25,483		329

* J-2 ACCESSORY

NOTE:
1. 'D' INDICATES POSTED OCCUPANCY. SIGNAGE TO BE PROVIDED TO INDICATE MAXIMUM OCCUPANCIES PER THE THE ABOVE OCCUPANT LOAD CHART.

1 LEVEL 18 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER 7 3/4"
MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES		J-2*
FIXTURE	REQUIRED	
WATER CLOSETS	(M) 0	(F) 0
LAVATORIES	(M) 0	(F)0
DRINKING FOUNTAINS	0	
SERVICE SINK **	0	

** FIXTURES TO BE LOCATED (1) LEVEL ABOVE OR BELOW THE FLOOR OCCUPIED BY THE PEOPLE FOR WHOSE USE THE FIXTURES ARE INTENDED (RS16-P104.1)

* J-2 ACCESSORY - SPACES ARE NON-SIMULTANEOUSLY OCCUPIED

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
0' 0" TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

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Stantec Inc.

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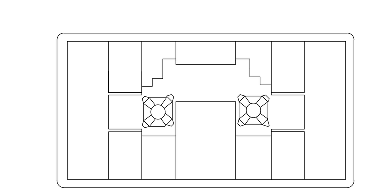
KEYPLAN



SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-032.00

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EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY: 1.5	x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY: 2	x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 60
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY: 1.5	x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	44" = 2 UNITS
STAIR CAPACITY: 2	x 30 PEOPLE / UNIT = 60 PEOPLE

EXIT STAIR E	TOTAL OCCUPANT CAPACITY: 75
DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY: 2	x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY: 2.5	x 30 PEOPLE / UNIT = 75 PEOPLE

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DOOR WIDTH:	36" = 1.5 UNITS
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DOOR CAPACITY: 2	x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY: 2.5	x 30 PEOPLE / UNIT = 75 PEOPLE

LIVING/KITCHEN	1,081 SF
LIGHT REQ (10%):	108 SF
PROVIDED:	135 SF
AIR REQ (2.5%):	27 SF
PROVIDED:	69 SF

BEDROOM	177 SF
LIGHT REQ (10%):	18 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

BEDROOM	237 SF
LIGHT REQ (10%):	24 SF
PROVIDED:	51 SF
AIR REQ (2.5%):	6 SF
PROVIDED:	25 SF

LIBRARY	149 SF
LIGHT REQ (10%):	15 SF
PROVIDED:	28 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	14 SF

LIVING/KITCHEN	328 SF
LIGHT REQ (10%):	33 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	8 SF
PROVIDED:	17 SF

BEDROOM	175 SF
LIGHT REQ (10%):	18 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

BEDROOM	178 SF
LIGHT REQ (10%):	18 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

LIBRARY	113 SF
LIGHT REQ (10%):	11 SF
PROVIDED:	28 SF
AIR REQ (2.5%):	3 SF
PROVIDED:	14 SF

BEDROOM	241 SF
LIGHT REQ (10%):	24 SF
PROVIDED:	51 SF
AIR REQ (2.5%):	6 SF
PROVIDED:	25 SF

LIVING/DINING	454 SF
LIGHT REQ (10%):	45 SF
PROVIDED:	59 SF
AIR REQ (2.5%):	11 SF
PROVIDED:	30 SF

KITCHEN	238 SF
LIGHT REQ (10%):	24 SF
PROVIDED:	54 SF
AIR REQ (2.5%):	6 SF
PROVIDED:	27 SF

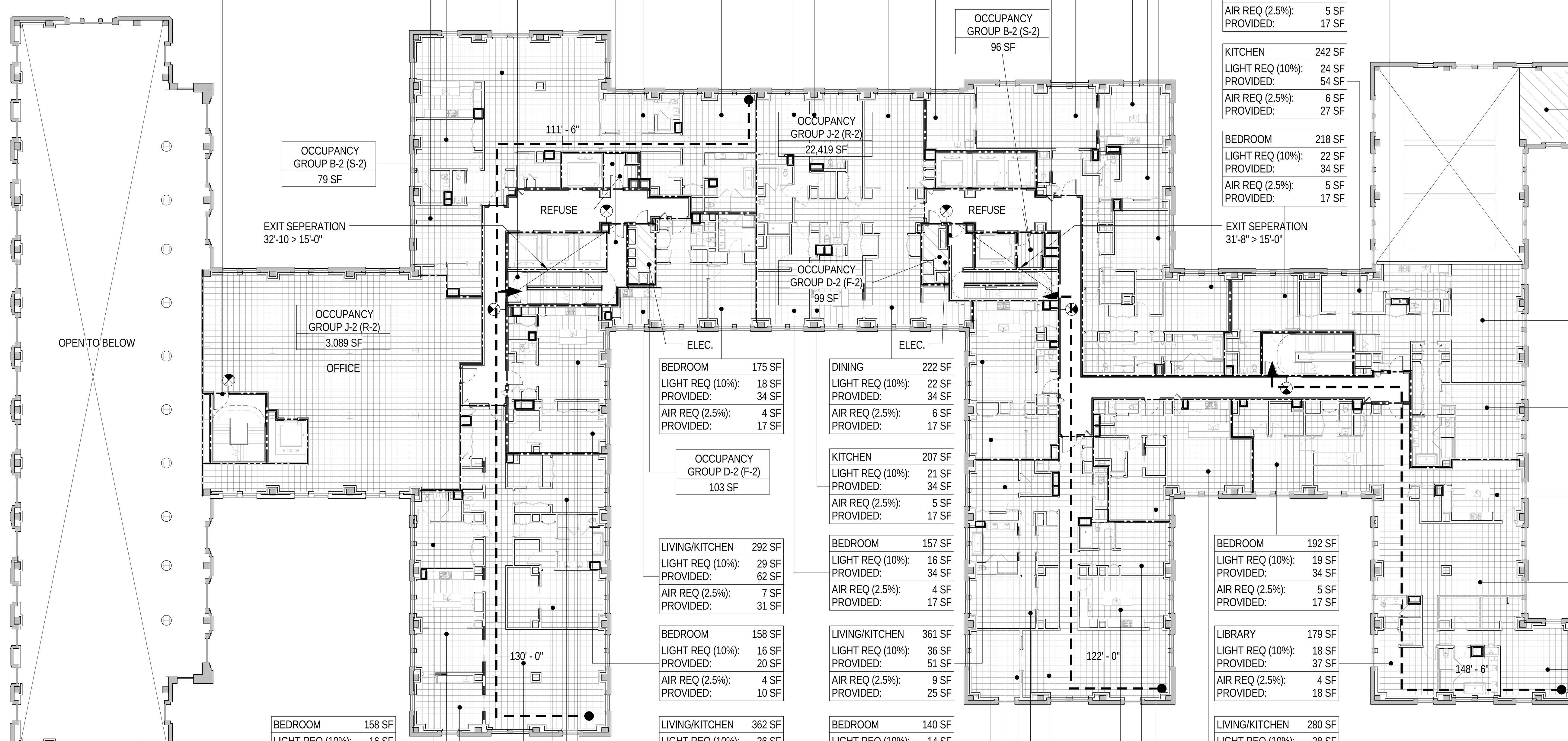
BEDROOM	144 SF
LIGHT REQ (10%):	14 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

BEDROOM	193 SF
LIGHT REQ (10%):	19 SF
PROVIDED:	37 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	18 SF

BEDROOM	216 SF
LIGHT REQ (10%):	22 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	17 SF

KITCHEN	242 SF
LIGHT REQ (10%):	24 SF
PROVIDED:	54 SF
AIR REQ (2.5%):	6 SF
PROVIDED:	27 SF

BEDROOM	218 SF
LIGHT REQ (10%):	22 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	17 SF



LIVING/DINING	509 SF
LIGHT REQ (10%):	51 SF
PROVIDED:	71 SF
AIR REQ (2.5%):	13 SF
PROVIDED:	35 SF

BEDROOM	300 SF
LIGHT REQ (10%):	30 SF
PROVIDED:	51 SF
AIR REQ (2.5%):	8 SF
PROVIDED:	25 SF

KITCHEN	192 SF
LIGHT REQ (10%):	19 SF
PROVIDED:	20 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	10 SF

LIVING/DINING	625 SF
LIGHT REQ (10%):	63 SF
PROVIDED:	59 SF
AIR REQ (2.5%):	16 SF
PROVIDED:	30 SF

BEDROOM	304 SF
LIGHT REQ (10%):	30 SF
PROVIDED:	59 SF
AIR REQ (2.5%):	8 SF
PROVIDED:	30 SF

BEDROOM	175 SF
LIGHT REQ (10%):	18 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

DINING	222 SF
LIGHT REQ (10%):	22 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	6 SF
PROVIDED:	17 SF

KITCHEN	207 SF
LIGHT REQ (10%):	21 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	17 SF

LIVING/KITCHEN	292 SF
LIGHT REQ (10%):	29 SF
PROVIDED:	62 SF
AIR REQ (2.5%):	7 SF
PROVIDED:	31 SF

BEDROOM	157 SF
LIGHT REQ (10%):	16 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

BEDROOM	192 SF
LIGHT REQ (10%):	19 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	17 SF

BEDROOM	158 SF
LIGHT REQ (10%):	16 SF
PROVIDED:	20 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	10 SF

LIVING/KITCHEN	361 SF
LIGHT REQ (10%):	36 SF
PROVIDED:	51 SF
AIR REQ (2.5%):	9 SF
PROVIDED:	25 SF

LIBRARY	179 SF
LIGHT REQ (10%):	18 SF
PROVIDED:	37 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	18 SF

BEDROOM	158 SF
LIGHT REQ (10%):	16 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

LIVING/KITCHEN	362 SF
LIGHT REQ (10%):	36 SF
PROVIDED:	51 SF
AIR REQ (2.5%):	9 SF
PROVIDED:	25 SF

BEDROOM	140 SF
LIGHT REQ (10%):	14 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

LIVING/KITCHEN	280 SF
LIGHT REQ (10%):	28 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	7 SF
PROVIDED:	17 SF

KITCHEN	382 SF
LIGHT REQ (10%):	38 SF
PROVIDED:	68 SF
AIR REQ (2.5%):	10 SF
PROVIDED:	34 SF

BEDROOM	178 SF
LIGHT REQ (10%):	18 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

BEDROOM	140 SF
LIGHT REQ (10%):	14 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

BEDROOM	139 SF
LIGHT REQ (10%):	14 SF
PROVIDED:	17 SF
AIR REQ (2.5%):	3 SF
PROVIDED:	8 SF

LIBRARY	204 SF
LIGHT REQ (10%):	20 SF
PROVIDED:	40 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	20 SF

BEDROOM	213 SF
LIGHT REQ (10%):	21 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	17 SF

LIBRARY	201 SF
LIGHT REQ (10%):	20 SF
PROVIDED:	54 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	27 SF

BEDROOM	158 SF
LIGHT REQ (10%):	16 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

LIVING	703 SF
LIGHT REQ (10%):	70 SF
PROVIDED:	107 SF
AIR REQ (2.5%):	18 SF
PROVIDED:	54 SF

BEDROOM	196 SF
LIGHT REQ (10%):	20 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	17 SF

KITCHEN	254 SF
LIGHT REQ (10%):	25 SF
PROVIDED:	54 SF
AIR REQ (2.5%):	6 SF
PROVIDED:	27 SF

LIVING/KITCHEN	582 SF
LIGHT REQ (10%):	58 SF
PROVIDED:	93 SF
AIR REQ (2.5%):	15 SF
PROVIDED:	47 SF

EXIT STAIR CAPACITY

STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	36	1.5	30	36	1.5	60	30
STAIR B	36	1.5	30	36	1.5	60	30
STAIR C	36	1.5	30	36	1.5	60	30
STAIR D	36	1.5	30	36	1.5	60	30
STAIR E	55	2.5	60	44	1.5	80	60
STAIR F	55	2.5	60	44	1.5	80	60
TOTAL							240

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L19

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
1968			
B-2 (S-2)	9,743	200	52
D-2 (F-2)	203	200	2
J-2 (R-2)	12,895	140	94
Office	3,089	100	31
TOTAL			179

* J-2 ACCESSORY

NOTE:
1. 'D' INDICATES POSTED OCCUPANCY. SIGNAGE TO BE PROVIDED TO INDICATE MAXIMUM OCCUPANCIES PER THE THE ABOVE OCCUPANT LOAD CHART.

1 LEVEL 19 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES

2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

PLUMBING FIXTURES	J-2*	
FIXTURE	REQUIRED	
WATER CLOSETS	(M) 0	(F) 0
LAVATORIES	(M) 0	(F) 0
DRINKING FOUNTAINS	0	
SERVICE SINK	0	

...FOUNTAINS ... THE REQUIRED DRIN... FOUNTAI... MAY ...ICATED PLUMBING FIXTURES WITH ...NED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT
* J-2 ACCESSORY - SPACES ARE NON-SIMULTANEOUSLY OCCUPIED
SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0' 0" EGRESS PATH
TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

DEPT OF BLDGS 121191245 Job Number
ES429413670 Scan Code

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
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STRUCTURAL ENGINEER
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Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

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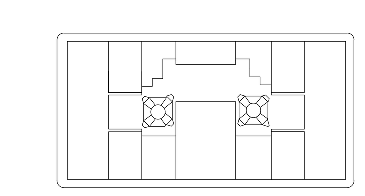
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
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DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-033.00

PAGE NUMBER
17 OF 137

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DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
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STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

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STAIR CAPACITY:	2 x 30 PEOPLE / UNIT = 60 PEOPLE

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DOOR WIDTH:	44" = 2 UNITS
DOOR CAPACITY:	2 x 40 PEOPLE / UNIT = 80 PEOPLE
STAIR WIDTH:	55" = 2.5 UNITS
STAIR CAPACITY:	2.5 x 30 PEOPLE / UNIT = 75 PEOPLE

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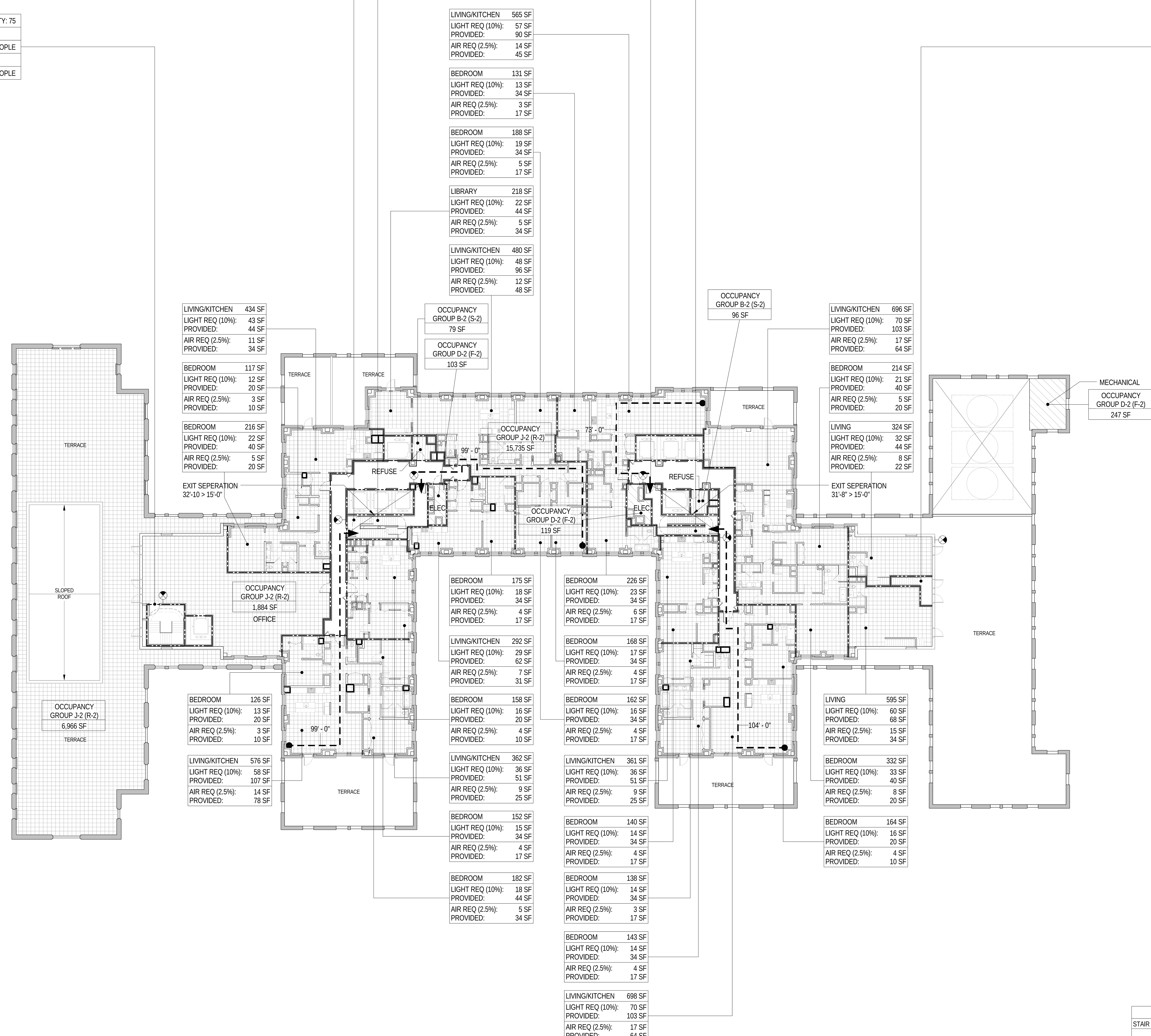
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR F	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	60" = 2.5 UNITS
DOOR CAPACITY:	2.5 x 40 PEOPLE / UNIT = 100 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE



EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL CAPACITY
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	
STAIR A	44	2	60	36	1.5	60	60
STAIR B	36	1.5	30	36	1.5	60	30
STAIR C	44	2	60	36	1.5	60	60
STAIR D	36	1.5	30	36	1.5	60	30
STAIR E	55	2.5	75	44	2	80	75
STAIR F	36	1.5	30	36	1.5	80	30
TOTAL							285

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L20			
OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
1968			
B-2 (S-2)	6,993	200	39
D-2 (F-2)	222	200	2
J-2 (R-2)*	10,444	140	72
Office	1,884	100	19
Terrace	7,360	D	74
TOTAL			206

* J-2 ACCESSORY

NOTE:
1. 'D' INDICATES POSTED OCCUPANCY. SIGNAGE TO BE PROVIDED TO INDICATE MAXIMUM OCCUPANCIES PER THE THE ABOVE OCCUPANT LOAD CHART.

1 LEVEL 20 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

BUILDING CODE
BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION
DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS
DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:
- B-2 STORAGE
- C MERCANTILE
- D-2 INDUSTRIAL (MECH. SPACES)
- F-3, F-4 ASSEMBLY
- J-1, J2 RESIDENTIAL

BUILDING LIMITATIONS
AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS
FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING FIRE SEPARATION	REQUIRED RATING FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS
CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:
- B-2 75'
- C, D-2, E 100'
- F-4 80'
- J-1, J-2 50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:
- B-2, C, J-1, J-2 36"
- D-2, E, F-4 44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:
- C, D-2, E 100'
- F-4 60'
- J-1, J-2 80'
- B-2 NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS
ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS
ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS
STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):
- MAXIMUM RISER 7 3/4"
- MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES
FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND
- EXIT SIGN
- EXIT SIGN W/ EGRESS DIRECTION
- EGRESS PATH
- 0' 0" TRAVEL DISTANCE
- 1 HR FIRE RATED CONSTRUCTION
- 2 HR FIRE RATED CONSTRUCTION
- 3 HR FIRE RATED CONSTRUCTION
- OCCUPANCY GROUP — CLASSIFICATION
- 150 SF — AREA

OCCUPANCY GROUPS
- EXISTING TO REMAIN - NOT IN CONTRACT
- B-2 (S-2)
- D-2 (F-2)
- J-2 (R-2)

WALDORF ASTORIA
301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
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MEPF & SITE CIVIL ENGINEER
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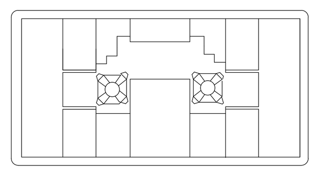
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN


SEAL
REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-034.00

PAGE NUMBER

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DEPT OF BLDGS 121191245 Job Number

ES925363186 Scan Code

2 LEVEL 22 - 30 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT SEPERATION
32'-10 > 15'-0"

EXIT SEPERATION
31'-8" > 15'-0"

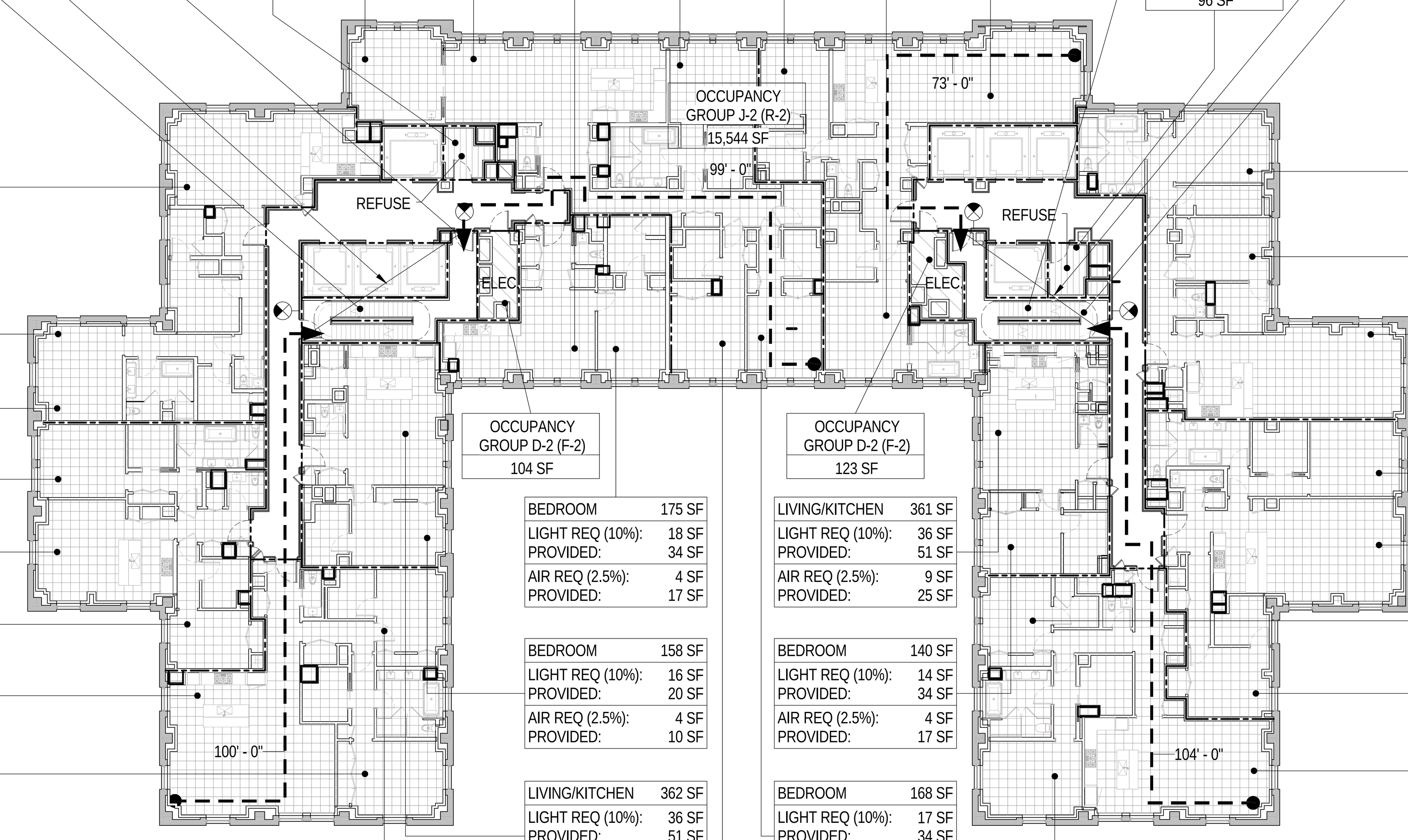
ROOM	AREA	LIGHT REQ (10%)	LIGHT PROVIDED	AIR REQ (2.5%)	AIR PROVIDED
LIVING/KITCHEN	480 SF	48 SF	96 SF	12 SF	48 SF
BEDROOM	188 SF	19 SF	34 SF	5 SF	17 SF
BEDROOM	226 SF	23 SF	34 SF	6 SF	17 SF
LIBRARY	218 SF	22 SF	48 SF	5 SF	24 SF
LIVING/KITCHEN	292 SF	29 SF	62 SF	7 SF	31 SF
BEDROOM	131 SF	13 SF	34 SF	3 SF	17 SF
LIVING/KITCHEN	565 SF	57 SF	90 SF	14 SF	45 SF
LIVING/KITCHEN	434 SF	43 SF	59 SF	11 SF	30 SF
BEDROOM	117 SF	12 SF	20 SF	3 SF	10 SF
BEDROOM	216 SF	22 SF	40 SF	5 SF	20 SF
BEDROOM	175 SF	17 SF	40 SF	4 SF	20 SF
LIVING/KITCHEN	340 SF	34 SF	59 SF	9 SF	30 SF
BEDROOM	130 SF	13 SF	20 SF	3 SF	10 SF
LIVING/KITCHEN	586 SF	59 SF	99 SF	15 SF	49 SF
BEDROOM	183 SF	18 SF	40 SF	5 SF	20 SF
BEDROOM	152 SF	15 SF	34 SF	4 SF	17 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	158 SF	16 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	362 SF	36 SF	51 SF	9 SF	25 SF
LIVING/KITCHEN	361 SF	36 SF	51 SF	9 SF	25 SF
BEDROOM	140 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	168 SF	17 SF	34 SF	4 SF	17 SF
BEDROOM	162 SF	16 SF	34 SF	4 SF	17 SF
BEDROOM	177 SF	18 SF	40 SF	4 SF	20 SF
BEDROOM	142 SF	14 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	490 SF	49 SF	59 SF	12 SF	30 SF
BEDROOM	186 SF	19 SF	40 SF	5 SF	20 SF
LIVING/KITCHEN	503 SF	50 SF	59 SF	13 SF	30 SF
BEDROOM	132 SF	13 SF	34 SF	3 SF	17 SF
BEDROOM	158 SF	16 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	458 SF	46 SF	79 SF	11 SF	40 SF
BEDROOM	201 SF	20 SF	40 SF	5 SF	20 SF

OCCUPANCY GROUP B-2 (S-2) 79 SF

OCCUPANCY GROUP B-2 (S-2) 96 SF

OCCUPANCY GROUP D-2 (F-2) 104 SF

OCCUPANCY GROUP D-2 (F-2) 123 SF



EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL CAPACITY
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	
STAIR A	36	1	30	36	1.5	60	30
STAIR B	36	1	30	36	1.5	60	30
STAIR C	36	1	30	36	1.5	60	30
STAIR D	36	1	30	36	1.5	60	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L22-30			
OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	226	200	2
J-2 (R-2)	15,544	140	112
TOTAL			116

1 LEVEL 21 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT SEPERATION
32'-10 > 15'-0"

EXIT SEPERATION
31'-8" > 15'-0"

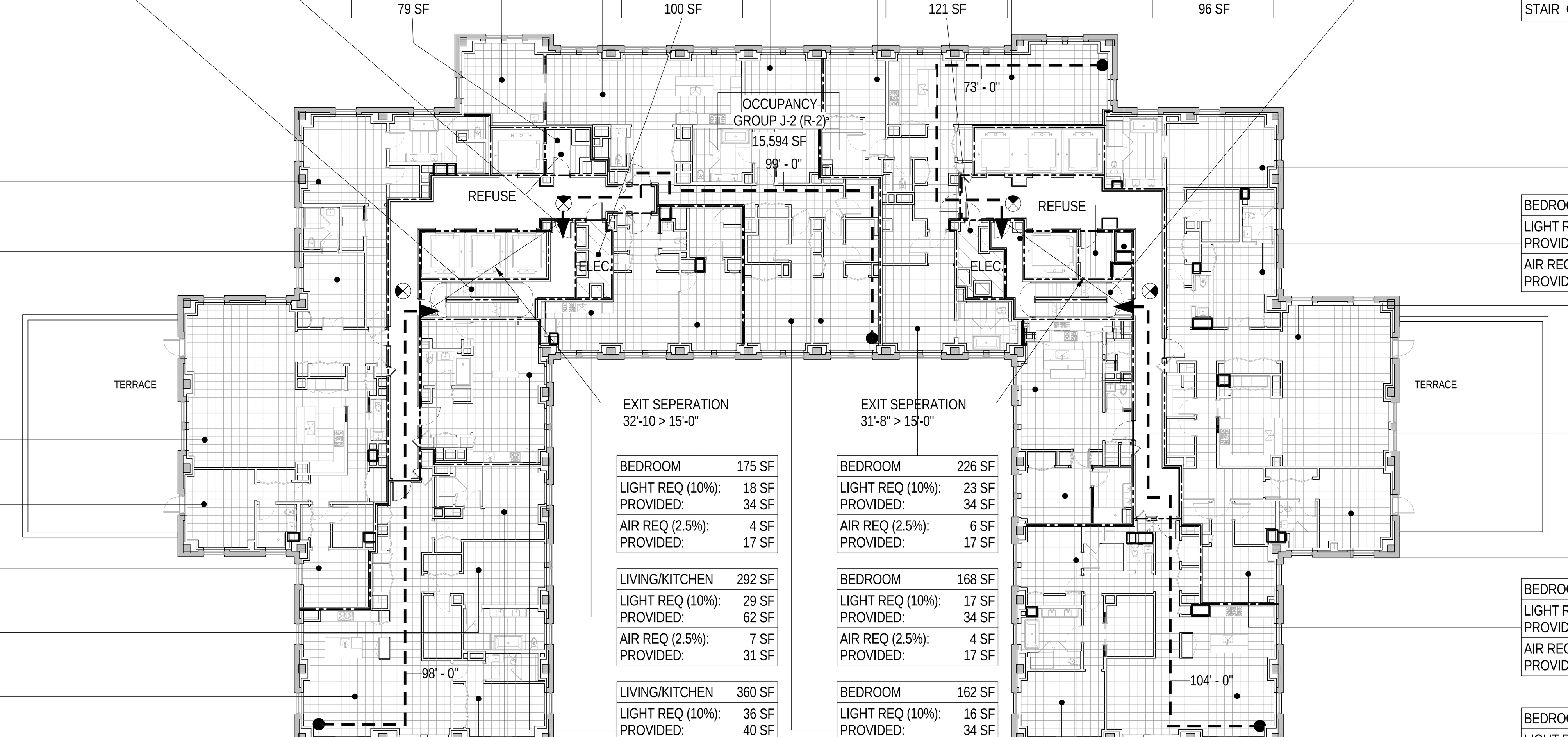
ROOM	AREA	LIGHT REQ (10%)	LIGHT PROVIDED	AIR REQ (2.5%)	AIR PROVIDED
LIBRARY	210 SF	21 SF	48 SF	5 SF	24 SF
BEDROOM	188 SF	19 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	565 SF	57 SF	90 SF	14 SF	45 SF
LIVING/KITCHEN	480 SF	48 SF	96 SF	12 SF	48 SF
BEDROOM	131 SF	13 SF	34 SF	3 SF	17 SF
BEDROOM	249 SF	25 SF	40 SF	6 SF	20 SF
BEDROOM	156 SF	16 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	775 SF	78 SF	99 SF	19 SF	49 SF
BEDROOM	340 SF	34 SF	40 SF	9 SF	20 SF
BEDROOM	132 SF	13 SF	20 SF	3 SF	10 SF
BEDROOM	184 SF	18 SF	34 SF	5 SF	17 SF
LIVING/KITCHEN	585 SF	59 SF	99 SF	15 SF	49 SF
BEDROOM	144 SF	14 SF	40 SF	4 SF	20 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	292 SF	29 SF	62 SF	7 SF	31 SF
LIVING/KITCHEN	360 SF	36 SF	40 SF	9 SF	20 SF
BEDROOM	144 SF	14 SF	20 SF	4 SF	10 SF
BEDROOM	226 SF	23 SF	34 SF	6 SF	17 SF
BEDROOM	168 SF	17 SF	34 SF	4 SF	17 SF
BEDROOM	162 SF	16 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	361 SF	36 SF	51 SF	9 SF	25 SF
BEDROOM	260 SF	26 SF	40 SF	7 SF	20 SF
BEDROOM	172 SF	17 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	614 SF	61 SF	99 SF	15 SF	49 SF
BEDROOM	140 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	191 SF	19 SF	40 SF	5 SF	20 SF
BEDROOM	143 SF	14 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	670 SF	67 SF	99 SF	17 SF	49 SF
BEDROOM	141 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	192 SF	19 SF	40 SF	5 SF	20 SF

OCCUPANCY GROUP B-2 (S-2) 79 SF

OCCUPANCY GROUP D-2 (F-2) 100 SF

OCCUPANCY GROUP D-2 (F-2) 121 SF

OCCUPANCY GROUP B-2 (S-2) 96 SF



EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL CAPACITY
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	
STAIR A	36	1	30	36	1.5	60	30
STAIR B	36	1	30	36	1.5	60	30
STAIR C	36	1	30	36	1.5	60	30
STAIR D	36	1	30	36	1.5	60	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L21			
OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	222	200	2
J-2 (R-2)	15,594	140	112
TOTAL			116

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	REQUIRED RATING: FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER 7 3/4"
MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
0' 0" TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

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STRUCTURAL ENGINEER
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CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

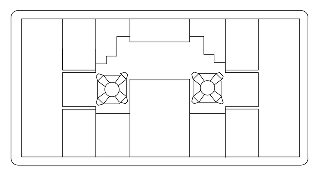
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-035.00

PAGE NUMBER
19 OF 137

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DEPT OF BLDGS 121191245 Job Number
ES967450389 Scan Code

LIVING/KITCHEN	480 SF	LIGHT REQ (10%):	48 SF	PROVIDED:	96 SF	AIR REQ (2.5%): 12 SF	PROVIDED: 48 SF
BEDROOM	188 SF	LIGHT REQ (10%):	19 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 17 SF
BEDROOM	226 SF	LIGHT REQ (10%):	23 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 6 SF	PROVIDED: 17 SF
LIBRARY	218 SF	LIGHT REQ (10%):	22 SF	PROVIDED:	48 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 24 SF
BEDROOM	131 SF	LIGHT REQ (10%):	13 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 3 SF	PROVIDED: 17 SF
LIVING/KITCHEN	565 SF	LIGHT REQ (10%):	57 SF	PROVIDED:	110 SF	AIR REQ (2.5%): 14 SF	PROVIDED: 55 SF
LIVING/KITCHEN	434 SF	LIGHT REQ (10%):	43 SF	PROVIDED:	59 SF	AIR REQ (2.5%): 11 SF	PROVIDED: 30 SF
BEDROOM	117 SF	LIGHT REQ (10%):	12 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 3 SF	PROVIDED: 10 SF
BEDROOM	216 SF	LIGHT REQ (10%):	22 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 20 SF
BEDROOM	175 SF	LIGHT REQ (10%):	17 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 20 SF
LIVING/KITCHEN	340 SF	LIGHT REQ (10%):	34 SF	PROVIDED:	59 SF	AIR REQ (2.5%): 9 SF	PROVIDED: 30 SF
BEDROOM	130 SF	LIGHT REQ (10%):	13 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 3 SF	PROVIDED: 10 SF
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BEDROOM	183 SF	LIGHT REQ (10%):	18 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 20 SF
BEDROOM	152 SF	LIGHT REQ (10%):	15 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 17 SF
BEDROOM	162 SF	LIGHT REQ (10%):	16 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 17 SF
BEDROOM	168 SF	LIGHT REQ (10%):	17 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 17 SF
BEDROOM	177 SF	LIGHT REQ (10%):	18 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 20 SF
BEDROOM	142 SF	LIGHT REQ (10%):	14 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 10 SF
LIVING/KITCHEN	490 SF	LIGHT REQ (10%):	49 SF	PROVIDED:	59 SF	AIR REQ (2.5%): 12 SF	PROVIDED: 30 SF
BEDROOM	186 SF	LIGHT REQ (10%):	19 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 20 SF
LIVING/KITCHEN	503 SF	LIGHT REQ (10%):	50 SF	PROVIDED:	59 SF	AIR REQ (2.5%): 13 SF	PROVIDED: 30 SF
BEDROOM	132 SF	LIGHT REQ (10%):	13 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 3 SF	PROVIDED: 20 SF
BEDROOM	158 SF	LIGHT REQ (10%):	16 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 10 SF
LIVING/KITCHEN	458 SF	LIGHT REQ (10%):	46 SF	PROVIDED:	79 SF	AIR REQ (2.5%): 11 SF	PROVIDED: 40 SF
BEDROOM	201 SF	LIGHT REQ (10%):	20 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 20 SF

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

OCCUPANCY GROUP B-2 (S-2) 79 SF

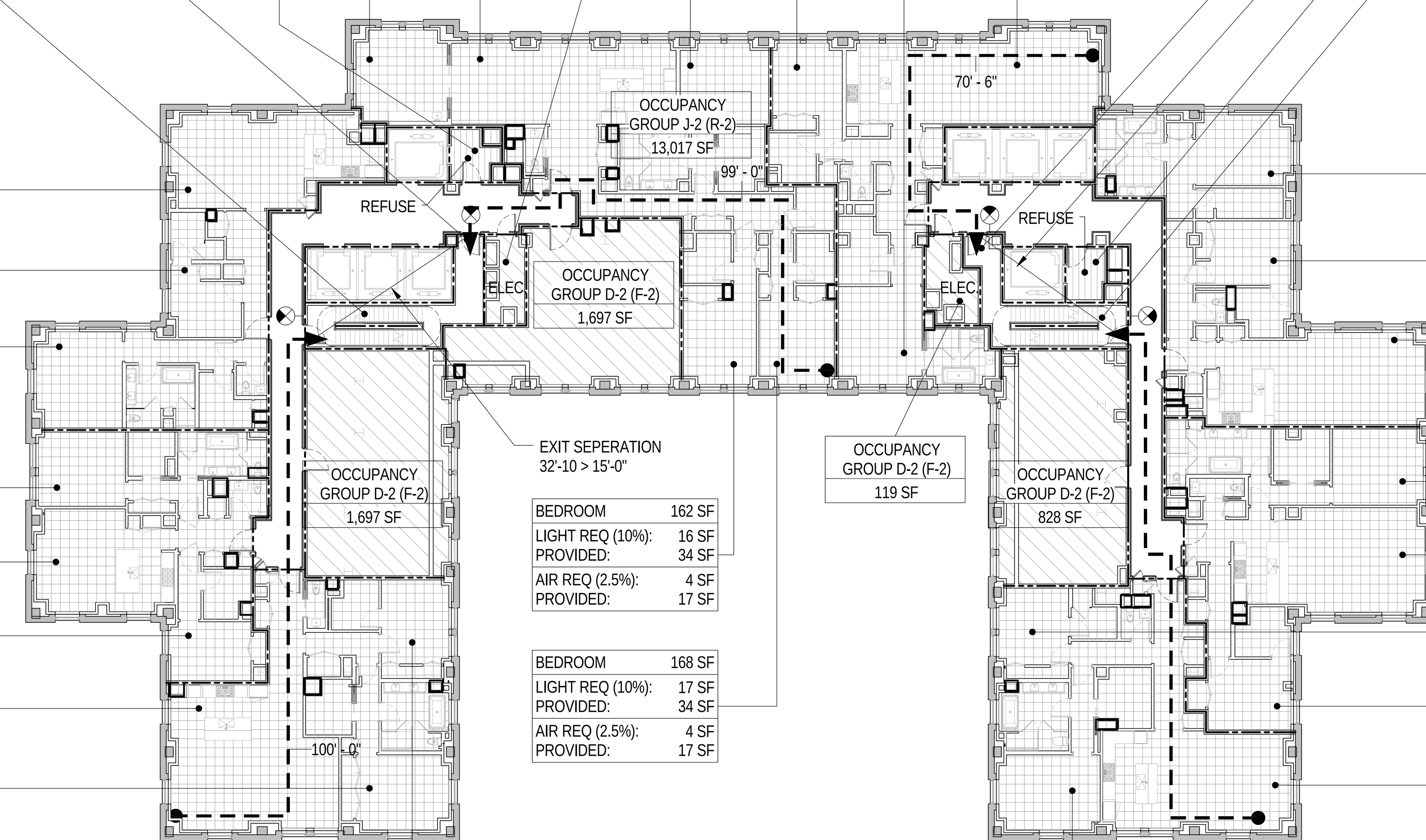
OCCUPANCY GROUP D-2 (F-2) 100 SF

OCCUPANCY GROUP B-2 (S-2) 96 SF

EXIT SEPERATION 31'-8" > 15'-0"

EXIT SEPERATION 32'-10 > 15'-0"

OCCUPANCY GROUP D-2 (F-2) 119 SF



EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	36	1	30	36	1.5	60	30
STAIR B	36	1	30	36	1.5	60	30
STAIR C	36	1	30	36	1.5	60	30
STAIR D	36	1	30	36	1.5	60	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L32			
OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	2,745	200	16
J-2 (R-2)	13,017	140	93
TOTAL			111

2 LEVEL 32 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

LIVING/KITCHEN	480 SF	LIGHT REQ (10%):	48 SF	PROVIDED:	96 SF	AIR REQ (2.5%): 12 SF	PROVIDED: 48 SF
BEDROOM	188 SF	LIGHT REQ (10%):	19 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 17 SF
BEDROOM	226 SF	LIGHT REQ (10%):	23 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 6 SF	PROVIDED: 17 SF
LIBRARY	218 SF	LIGHT REQ (10%):	22 SF	PROVIDED:	48 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 24 SF
LIVING/KITCHEN	292 SF	LIGHT REQ (10%):	29 SF	PROVIDED:	62 SF	AIR REQ (2.5%): 7 SF	PROVIDED: 31 SF
BEDROOM	131 SF	LIGHT REQ (10%):	13 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 3 SF	PROVIDED: 17 SF
LIVING/KITCHEN	565 SF	LIGHT REQ (10%):	57 SF	PROVIDED:	110 SF	AIR REQ (2.5%): 14 SF	PROVIDED: 55 SF
LIVING/KITCHEN	434 SF	LIGHT REQ (10%):	43 SF	PROVIDED:	59 SF	AIR REQ (2.5%): 11 SF	PROVIDED: 30 SF
BEDROOM	117 SF	LIGHT REQ (10%):	12 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 3 SF	PROVIDED: 10 SF
BEDROOM	216 SF	LIGHT REQ (10%):	22 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 20 SF
LIVING/KITCHEN	306 SF	LIGHT REQ (10%):	31 SF	PROVIDED:	45 SF	AIR REQ (2.5%): 8 SF	PROVIDED: 21 SF
BEDROOM	175 SF	LIGHT REQ (10%):	17 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 20 SF
LIVING/KITCHEN	340 SF	LIGHT REQ (10%):	34 SF	PROVIDED:	59 SF	AIR REQ (2.5%): 9 SF	PROVIDED: 30 SF
BEDROOM	130 SF	LIGHT REQ (10%):	13 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 3 SF	PROVIDED: 10 SF
LIVING/KITCHEN	586 SF	LIGHT REQ (10%):	59 SF	PROVIDED:	99 SF	AIR REQ (2.5%): 15 SF	PROVIDED: 49 SF
BEDROOM	183 SF	LIGHT REQ (10%):	18 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 20 SF
BEDROOM	152 SF	LIGHT REQ (10%):	15 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 17 SF
BEDROOM	144 SF	LIGHT REQ (10%):	14 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 10 SF
BEDROOM	175 SF	LIGHT REQ (10%):	18 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 17 SF
LIVING/KITCHEN	361 SF	LIGHT REQ (10%):	36 SF	PROVIDED:	51 SF	AIR REQ (2.5%): 9 SF	PROVIDED: 25 SF
BEDROOM	162 SF	LIGHT REQ (10%):	16 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 17 SF
BEDROOM	140 SF	LIGHT REQ (10%):	14 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 17 SF
BEDROOM	168 SF	LIGHT REQ (10%):	17 SF	PROVIDED:	34 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 17 SF
BEDROOM	177 SF	LIGHT REQ (10%):	18 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 20 SF
BEDROOM	142 SF	LIGHT REQ (10%):	14 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 10 SF
LIVING/KITCHEN	490 SF	LIGHT REQ (10%):	49 SF	PROVIDED:	59 SF	AIR REQ (2.5%): 12 SF	PROVIDED: 30 SF
BEDROOM	186 SF	LIGHT REQ (10%):	19 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 20 SF
LIVING/KITCHEN	503 SF	LIGHT REQ (10%):	50 SF	PROVIDED:	59 SF	AIR REQ (2.5%): 13 SF	PROVIDED: 30 SF
BEDROOM	132 SF	LIGHT REQ (10%):	13 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 3 SF	PROVIDED: 20 SF
BEDROOM	158 SF	LIGHT REQ (10%):	16 SF	PROVIDED:	20 SF	AIR REQ (2.5%): 4 SF	PROVIDED: 10 SF
LIVING/KITCHEN	458 SF	LIGHT REQ (10%):	46 SF	PROVIDED:	79 SF	AIR REQ (2.5%): 11 SF	PROVIDED: 40 SF
BEDROOM	201 SF	LIGHT REQ (10%):	20 SF	PROVIDED:	40 SF	AIR REQ (2.5%): 5 SF	PROVIDED: 20 SF

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT SEPERATION 32'-10 > 15'-0"

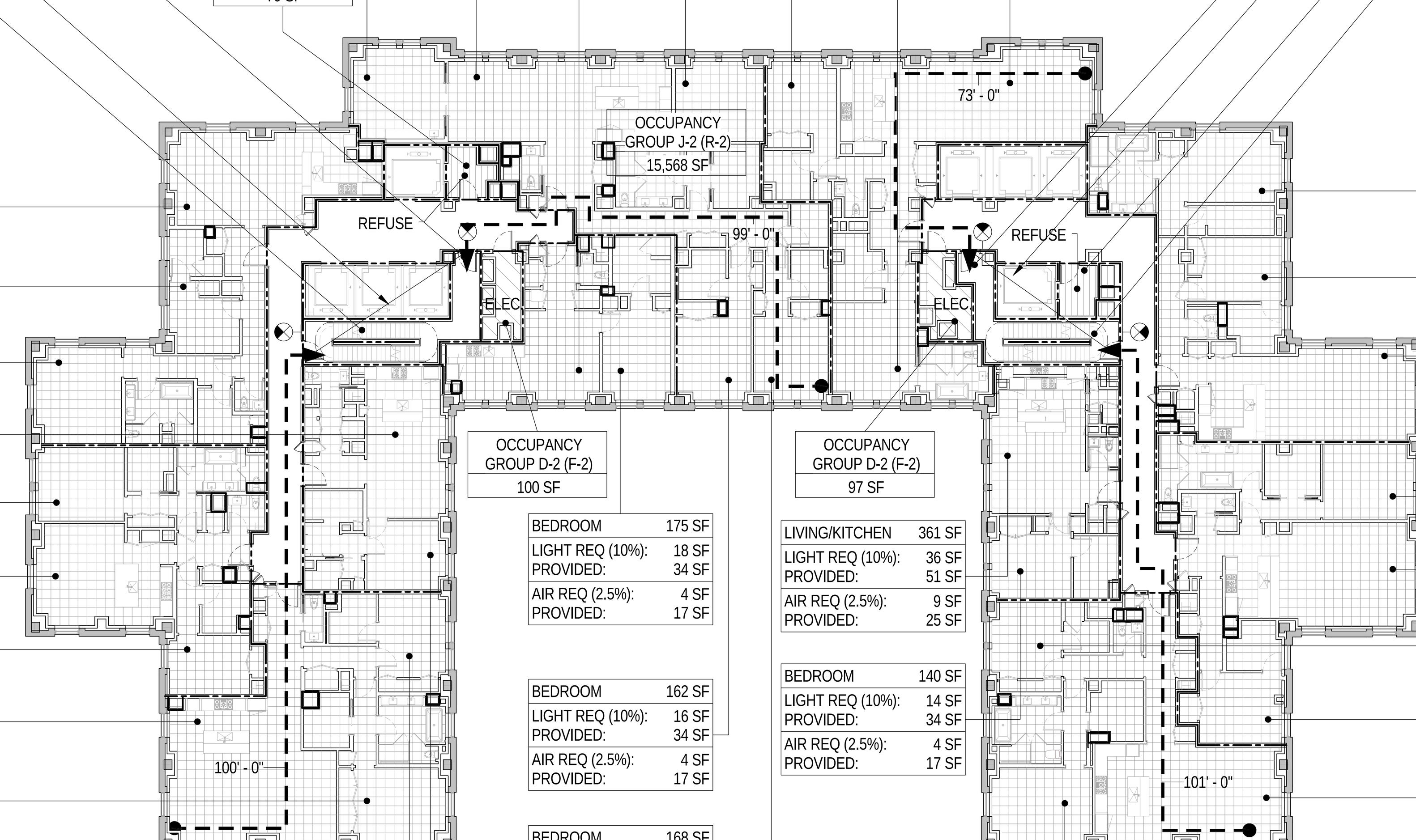
EXIT SEPERATION 31'-8" > 15'-0"

OCCUPANCY GROUP B-2 (S-2) 79 SF

OCCUPANCY GROUP B-2 (S-2) 96 SF

OCCUPANCY GROUP D-2 (F-2) 100 SF

OCCUPANCY GROUP D-2 (F-2) 97 SF



EXIT STAIR CAPACITY							
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	36	1	30	36	1.5	60	30
STAIR B	36	1	30	36	1.5	60	30
STAIR C	36	1	30	36	1.5	60	30
STAIR D	36	1	30	36	1.5	60	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L31			
OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	197	200	2
J-2 (R-2)	15,568	140	112
TOTAL			116

1 LEVEL 31 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER 7 3/4"
MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES

2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

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LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
0' 0" TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

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Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

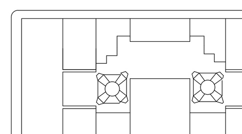
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-036.00

PAGE NUMBER
20 OF 137

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2 LEVEL 34 - 36 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
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EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
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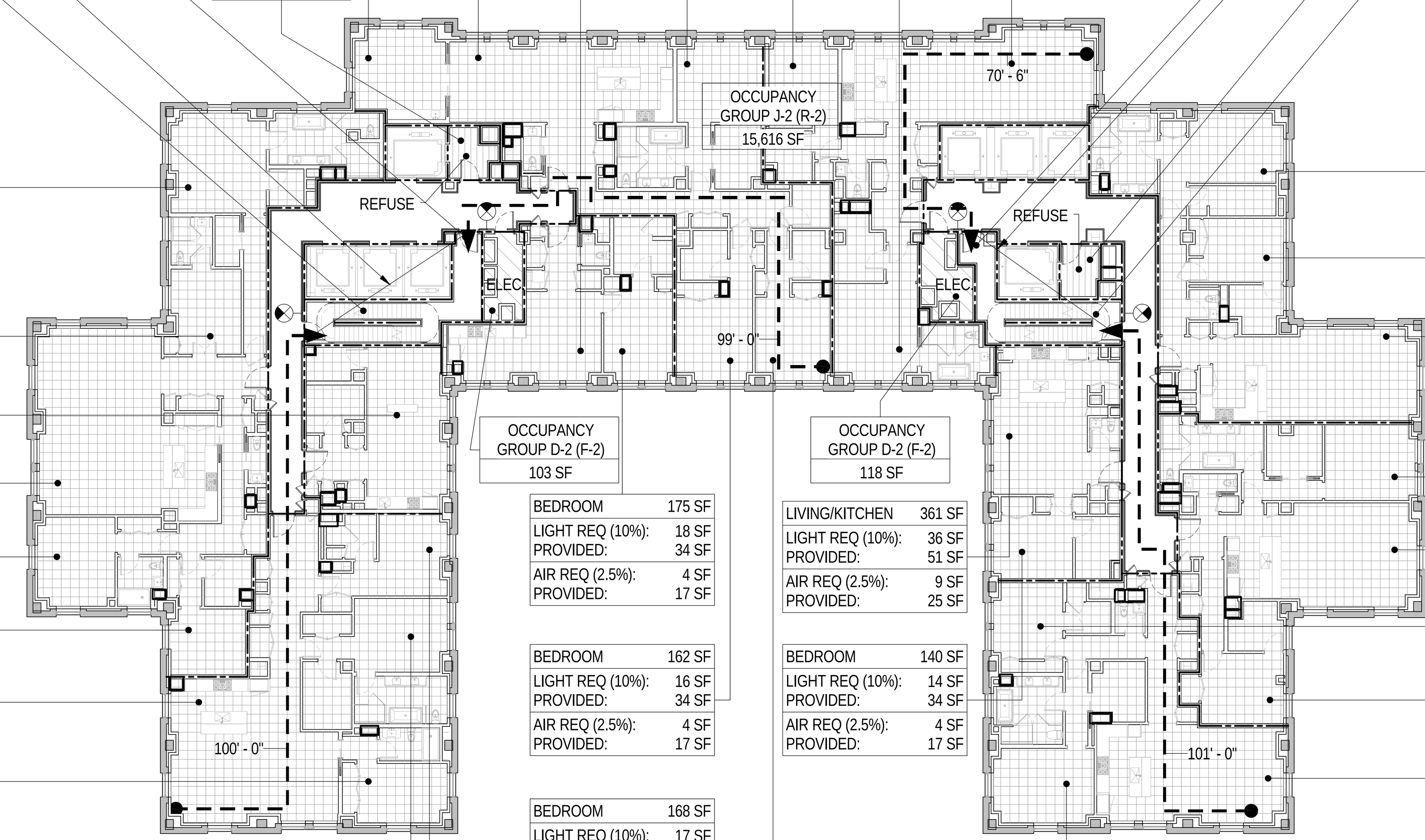
EXIT SEPERATION 32'-10 > 15'-0"

EXIT SEPERATION 31'-8" > 15'-0"

OCCUPANCY GROUP B-2 (S-2) 79 SF

OCCUPANCY GROUP B-2 (S-2) 96 SF



OCCUPANCY GROUP D-2 (F-2) 103 SF

OCCUPANCY GROUP D-2 (F-2) 118 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
LIVING/KITCHEN	480 SF	48 SF	96 SF	12 SF	48 SF
BEDROOM	188 SF	19 SF	34 SF	5 SF	17 SF
BEDROOM	226 SF	23 SF	34 SF	6 SF	17 SF
LIBRARY	218 SF	22 SF	48 SF	5 SF	24 SF
LIVING/KITCHEN	292 SF	29 SF	62 SF	7 SF	31 SF
BEDROOM	131 SF	13 SF	34 SF	3 SF	17 SF
LIVING/KITCHEN	565 SF	57 SF	110 SF	14 SF	55 SF
BEDROOM	249 SF	25 SF	40 SF	6 SF	20 SF
BEDROOM	156 SF	16 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	356 SF	36 SF	51 SF	9 SF	25 SF
LIVING/KITCHEN	775 SF	78 SF	99 SF	19 SF	49 SF
BEDROOM	340 SF	34 SF	40 SF	9 SF	20 SF
BEDROOM	132 SF	13 SF	20 SF	3 SF	10 SF
LIVING/KITCHEN	585 SF	59 SF	99 SF	15 SF	49 SF
BEDROOM	144 SF	14 SF	40 SF	4 SF	20 SF
BEDROOM	184 SF	18 SF	34 SF	5 SF	17 SF
BEDROOM	144 SF	14 SF	17 SF	4 SF	8 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	361 SF	36 SF	51 SF	9 SF	25 SF
BEDROOM	162 SF	16 SF	34 SF	4 SF	17 SF
BEDROOM	140 SF	14 SF	34 SF	4 SF	17 SF
BEDROOM	168 SF	17 SF	34 SF	4 SF	17 SF
BEDROOM	177 SF	18 SF	40 SF	4 SF	20 SF
BEDROOM	142 SF	14 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	490 SF	49 SF	59 SF	12 SF	30 SF
BEDROOM	186 SF	19 SF	40 SF	5 SF	20 SF
LIVING/KITCHEN	503 SF	50 SF	59 SF	13 SF	30 SF
BEDROOM	132 SF	13 SF	40 SF	3 SF	20 SF
BEDROOM	158 SF	16 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	458 SF	46 SF	79 SF	11 SF	40 SF
BEDROOM	201 SF	20 SF	40 SF	5 SF	20 SF

EXIT STAIR CAPACITY

STAIR	STAIR WIDTH	STAIR UNITS	STAIR CAPACITY	DOOR WIDTH	DOOR UNITS	DOOR CAPACITY	TOTAL CAPACITY
STAIR A	36	1	30	36	1.5	60	30
STAIR B	36	1	30	36	1.5	60	30
STAIR C	36	1	30	36	1.5	60	30
STAIR D	36	1	30	36	1.5	60	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L34-36

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	221	200	2
J-2 (R-2)	15,616	140	112
TOTAL			116

1 LEVEL 33 CODE ANALYSIS

SCALE: 1/16" = 1'-0"

EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
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EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
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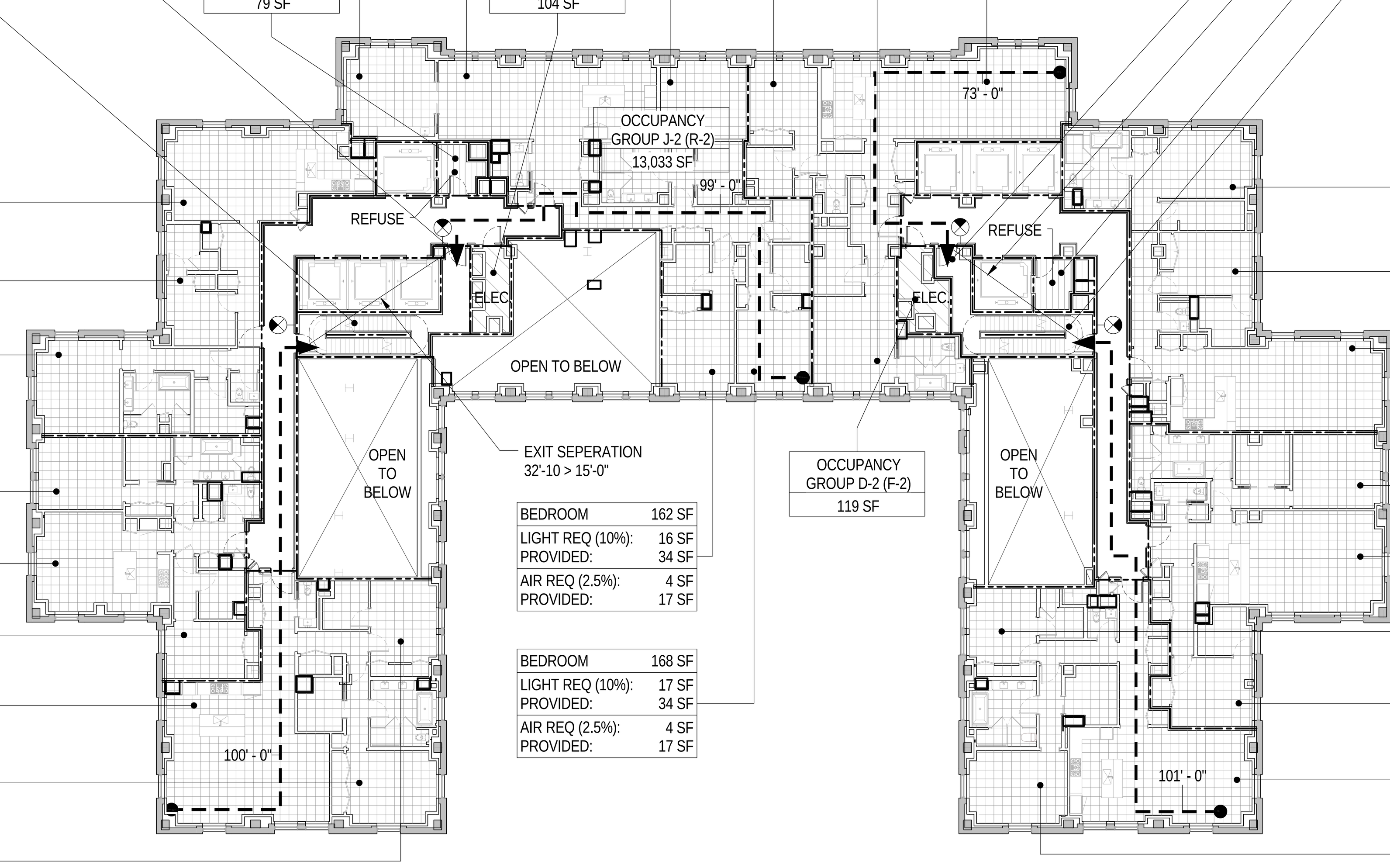
EXIT SEPERATION 31'-8" > 15'-0"

OCCUPANCY GROUP B-2 (S-2) 79 SF

OCCUPANCY GROUP D-2 (F-2) 104 SF

OCCUPANCY GROUP B-2 (S-2) 96 SF



EXIT SEPERATION 32'-10 > 15'-0"

OCCUPANCY GROUP D-2 (F-2) 119 SF

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
LIVING/KITCHEN	480 SF	48 SF	96 SF	12 SF	48 SF
BEDROOM	188 SF	19 SF	34 SF	5 SF	17 SF
BEDROOM	226 SF	23 SF	34 SF	6 SF	17 SF
LIBRARY	218 SF	22 SF	48 SF	5 SF	24 SF
BEDROOM	131 SF	13 SF	34 SF	3 SF	17 SF
LIVING/KITCHEN	565 SF	57 SF	110 SF	14 SF	55 SF
LIVING/KITCHEN	434 SF	43 SF	59 SF	11 SF	30 SF
BEDROOM	117 SF	12 SF	20 SF	3 SF	10 SF
BEDROOM	216 SF	22 SF	40 SF	5 SF	20 SF
BEDROOM	175 SF	17 SF	40 SF	4 SF	20 SF
LIVING/KITCHEN	340 SF	34 SF	59 SF	9 SF	30 SF
BEDROOM	130 SF	13 SF	20 SF	3 SF	10 SF
LIVING/KITCHEN	586 SF	59 SF	99 SF	15 SF	49 SF
BEDROOM	183 SF	18 SF	40 SF	5 SF	20 SF
BEDROOM	152 SF	15 SF	34 SF	4 SF	17 SF
BEDROOM	162 SF	16 SF	34 SF	4 SF	17 SF
BEDROOM	168 SF	17 SF	34 SF	4 SF	17 SF
BEDROOM	177 SF	18 SF	40 SF	4 SF	20 SF
BEDROOM	142 SF	14 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	490 SF	49 SF	59 SF	12 SF	30 SF
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EXIT STAIR CAPACITY

STAIR	STAIR WIDTH	STAIR UNITS	STAIR CAPACITY	DOOR WIDTH	DOOR UNITS	DOOR CAPACITY	TOTAL CAPACITY
STAIR A	36	1	30	36	1.5	60	30
STAIR B	36	1	30	36	1.5	60	30
STAIR C	36	1	30	36	1.5	60	30
STAIR D	36	1	30	36	1.5	60	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L33

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	223	200	2
J-2 (R-2)	13,033	140	94
TOTAL			98

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY
CLASSIFICATIONS IN BUILDING:

- B-2 STORAGE
- C MERCANTILE
- D-2 INDUSTRIAL (MECH. SPACES)
- F-3, F-4 ASSEMBLY
- J-1, J2 RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	REQUIRED RATING: FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:
- B-2 75'
- C, D-2, E 100'
- F-4 80'
- J-1, J-2 50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:
- B-2, C, J-1, J-2 36"
- D-2, E, F-4 44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:
- C, D-2, E 100'
- F-4 60'
- J-1, J-2 80'
- B-2 NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER 7 3/4"
MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES

2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

- EXIT SIGN
- EXIT SIGN W/ EGRESS DIRECTION
- EGRESS PATH / TRAVEL DISTANCE (0' 0")
- 1 HR FIRE RATED CONSTRUCTION
- 2 HR FIRE RATED CONSTRUCTION
- 3 HR FIRE RATED CONSTRUCTION
- OCCUPANCY GROUP — CLASSIFICATION; 150 SF — AREA

OCCUPANCY GROUPS
- EXISTING TO REMAIN - NOT IN CONTRACT
- B-2 (S-2)
- D-2 (F-2)
- J-2 (R-2)

DEPT OF BLDGS 121191245 Job Number
ES081217335 Scan Code

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

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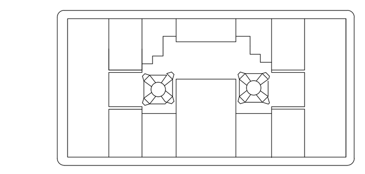

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21 OF 137

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2 LEVEL 38 CODE ANALYSIS
SCALE: 1/16" = 1'-0"

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STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

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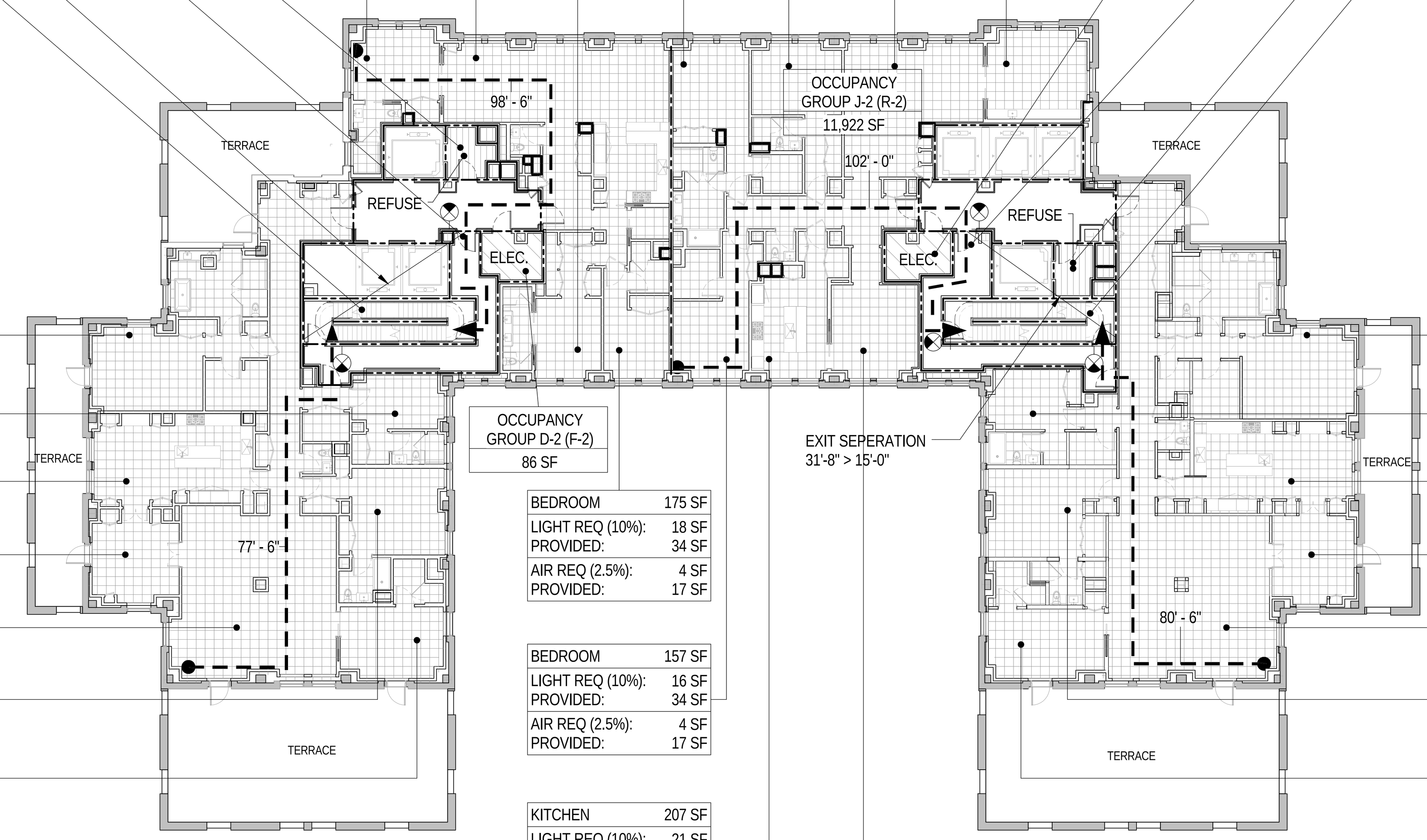
OCCUPANCY GROUP D-2 (F-2) 86 SF



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BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
LIBRARY	253 SF	25 SF	48 SF	6 SF	24 SF
BEDROOM	243 SF	24 SF	44 SF	6 SF	34 SF
BEDROOM	138 SF	14 SF	17 SF	3 SF	8 SF
KITCHEN	329 SF	33 SF	40 SF	8 SF	20 SF
DINING ROOM	182 SF	18 SF	44 SF	5 SF	34 SF
LIVING ROOM	697 SF	70 SF	87 SF	17 SF	58 SF
BEDROOM	220 SF	22 SF	37 SF	6 SF	18 SF
LIBRARY	209 SF	21 SF	44 SF	5 SF	34 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	157 SF	16 SF	34 SF	4 SF	17 SF
KITCHEN	207 SF	21 SF	34 SF	5 SF	17 SF
BEDROOM	257 SF	26 SF	48 SF	6 SF	24 SF
BEDROOM	267 SF	27 SF	44 SF	7 SF	34 SF
BEDROOM	125 SF	13 SF	17 SF	3 SF	8 SF
KITCHEN	336 SF	34 SF	40 SF	8 SF	20 SF
DINING ROOM	192 SF	19 SF	44 SF	5 SF	34 SF
LIVING ROOM	727 SF	73 SF	82 SF	18 SF	55 SF
BEDROOM	227 SF	23 SF	37 SF	6 SF	18 SF
BEDROOM	215 SF	22 SF	44 SF	5 SF	34 SF

EXIT STAIR CAPACITY

STAIR	STAIR WIDTH	STAIR UNITS	STAIR CAPACITY	DOOR WIDTH	DOOR UNITS	DOOR CAPACITY	TOTAL CAPACITY
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STAIR B	36	1	30	36	1.5	60	30
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TOTAL							120

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D-2 (F-2)	177	200	2
J-2 (R-2)	11,922	140	86
TOTAL	12,274		90

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SCALE: 1/16" = 1'-0"

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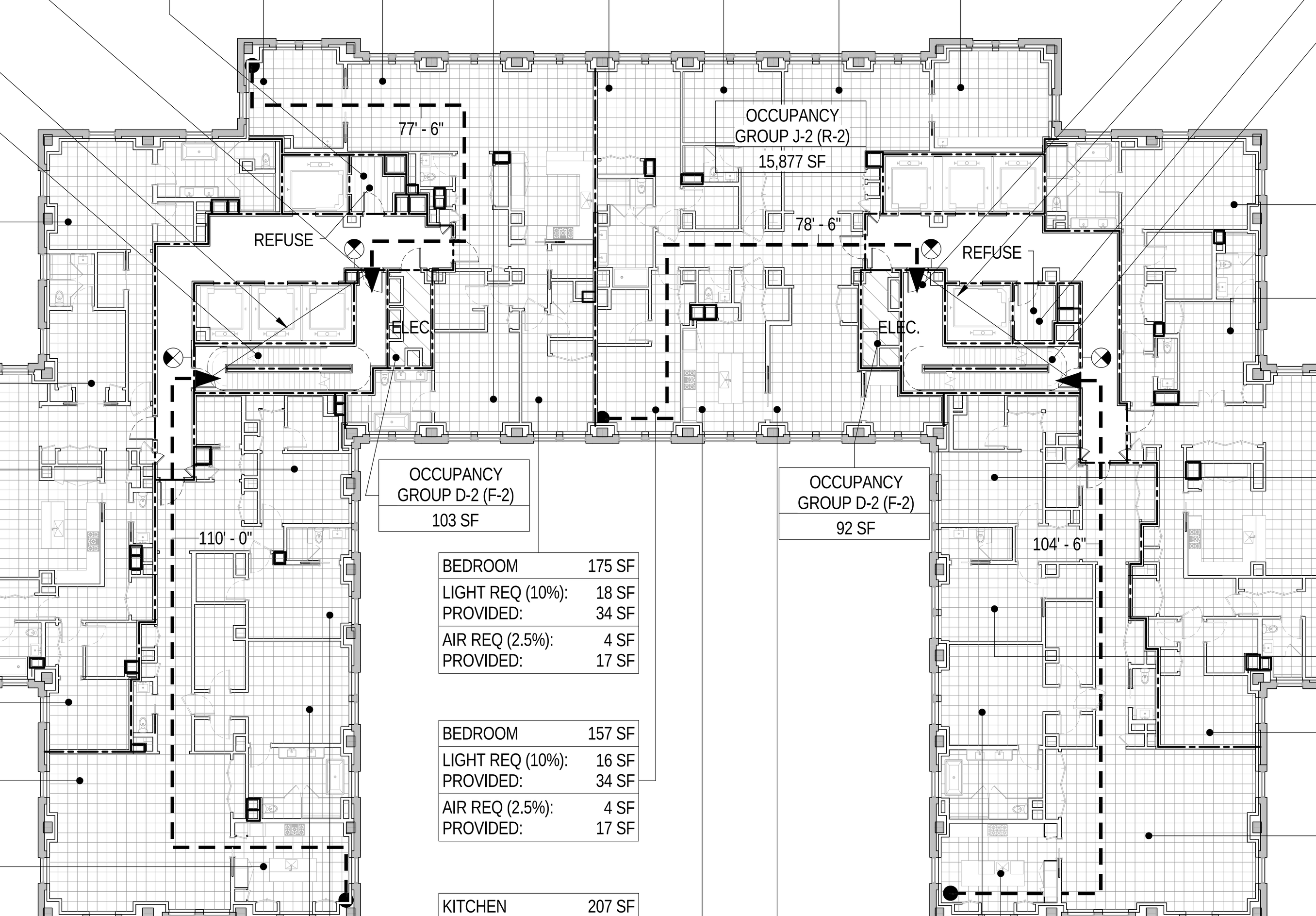
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT SEPERATION 32'-10" > 15'-0"
EXIT SEPERATION 31'-8" > 15'-0"

OCCUPANCY GROUP B-2 (S-2) 79 SF
OCCUPANCY GROUP B-2 (S-2) 96 SF
OCCUPANCY GROUP D-2 (F-2) 103 SF
OCCUPANCY GROUP D-2 (F-2) 92 SF



ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
LIVING/KITCHEN	480 SF	48 SF	96 SF	12 SF	48 SF
BEDROOM	178 SF	18 SF	34 SF	4 SF	17 SF
LIVING	404 SF	40 SF	62 SF	10 SF	31 SF
LIBRARY	218 SF	22 SF	48 SF	5 SF	24 SF
LIVING/KITCHEN	292 SF	29 SF	62 SF	7 SF	31 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
LIBRARY	253 SF	25 SF	48 SF	6 SF	24 SF
BEDROOM	249 SF	25 SF	40 SF	6 SF	20 SF
BEDROOM	156 SF	16 SF	20 SF	4 SF	10 SF
BEDROOM	145 SF	15 SF	34 SF	4 SF	17 SF
LIVING/KITCHEN	775 SF	78 SF	99 SF	19 SF	49 SF
BEDROOM	340 SF	34 SF	40 SF	9 SF	20 SF
BEDROOM	132 SF	13 SF	20 SF	3 SF	10 SF
LIVING/KITCHEN	648 SF	65 SF	99 SF	16 SF	49 SF
KITCHEN	216 SF	22 SF	40 SF	5 SF	20 SF
BEDROOM	237 SF	24 SF	34 SF	6 SF	17 SF
BEDROOM	167 SF	17 SF	20 SF	4 SF	10 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	157 SF	16 SF	34 SF	4 SF	17 SF
KITCHEN	207 SF	21 SF	34 SF	5 SF	17 SF
DINING	222 SF	22 SF	34 SF	6 SF	17 SF
BEDROOM	260 SF	26 SF	40 SF	7 SF	20 SF
BEDROOM	168 SF	17 SF	20 SF	4 SF	10 SF
LIVING/KITCHEN	791 SF	79 SF	99 SF	20 SF	49 SF
BEDROOM	170 SF	17 SF	34 SF	4 SF	17 SF
BEDROOM	215 SF	22 SF	40 SF	5 SF	20 SF
BEDROOM	178 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	168 SF	17 SF	20 SF	4 SF	10 SF
LIVING/DINING	864 SF	86 SF	99 SF	22 SF	49 SF
KITCHEN	215 SF	22 SF	40 SF	5 SF	20 SF
BEDROOM	232 SF	23 SF	34 SF	6 SF	17 SF

EXIT STAIR CAPACITY

STAIR	STAIR WIDTH	STAIR UNITS	STAIR CAPACITY	DOOR WIDTH	DOOR UNITS	DOOR CAPACITY	TOTAL CAPACITY
STAIR A	36	1	30	36	1.5	60	30
STAIR B	36	1	30	36	1.5	60	30
STAIR C	36	1	30	36	1.5	60	30
STAIR D	36	1	30	36	1.5	60	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L37

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	195	200	2
J-2 (R-2)	15,877	140	114
TOTAL			118

BUILDING CODE

BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION

DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS

DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	REQUIRED RATING: FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS

CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:
B-2 75'
C, D-2, E 100'
F-4 80'
J-1, J-2 50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:
B-2, C, J-1, J-2 36"
D-2, E, F-4 44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:
C, D-2, E 100'
F-4 60'
J-1, J-2 80'
B-2 NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER 7 3/4"
MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
0' 0" EGRESS PATH TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP 150 SF — CLASSIFICATION — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

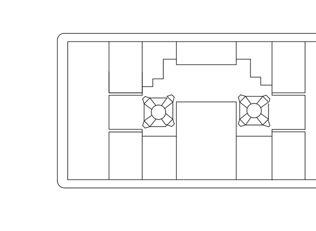
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-038.00

PAGE NUMBER
22 OF 137

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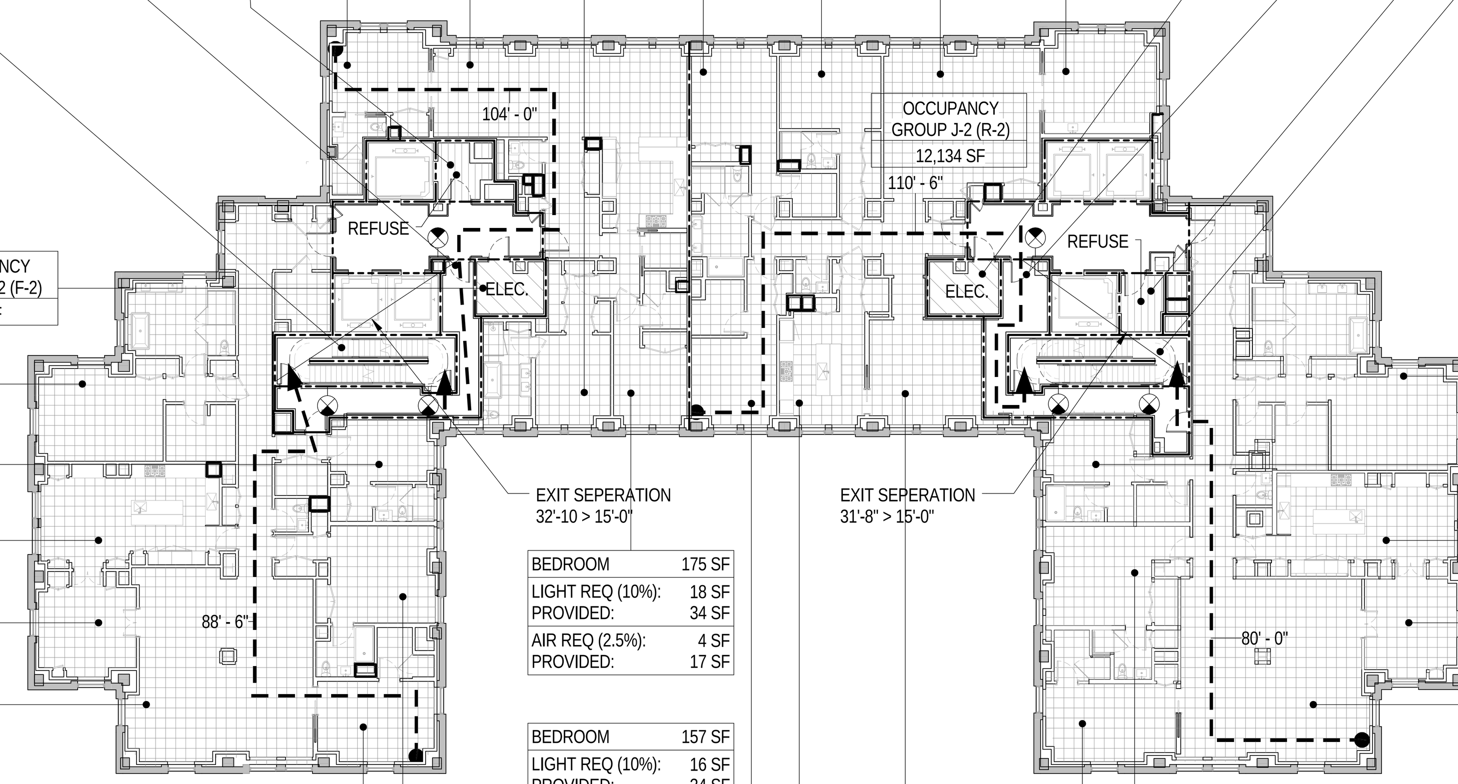
2 LEVEL 41 CODE ANALYSIS
SCALE: 1/16" = 1'-0"



EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

OCCUPANCY GROUP B-2 (S-2) 79 SF

OCCUPANCY GROUP D-2 (F-2) 89 SF

OCCUPANCY GROUP D-2 (F-2) 92 SF

OCCUPANCY GROUP B-2 (S-2) 96 SF

EXIT SEPERATION 32'-10 > 15'-0"

EXIT SEPERATION 31'-8" > 15'-0"

ROOM	AREA	LIGHT REQ (10%)	PROVIDED	AIR REQ (2.5%)	PROVIDED
LIVING/KITCHEN	480 SF	48 SF	96 SF	12 SF	48 SF
BEDROOM	178 SF	18 SF	34 SF	4 SF	17 SF
LIVING	404 SF	40 SF	62 SF	10 SF	31 SF
LIBRARY	218 SF	22 SF	48 SF	5 SF	24 SF
LIVING/KITCHEN	292 SF	29 SF	62 SF	7 SF	31 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
LIBRARY	253 SF	25 SF	48 SF	6 SF	24 SF
BEDROOM	243 SF	24 SF	44 SF	6 SF	34 SF
BEDROOM	138 SF	14 SF	17 SF	3 SF	8 SF
KITCHEN	363 SF	36 SF	40 SF	9 SF	20 SF
DINING	182 SF	18 SF	44 SF	5 SF	34 SF
LIVING	697 SF	70 SF	88 SF	17 SF	68 SF
BEDROOM	209 SF	21 SF	44 SF	5 SF	34 SF
BEDROOM	220 SF	22 SF	34 SF	6 SF	17 SF
BEDROOM	175 SF	18 SF	34 SF	4 SF	17 SF
BEDROOM	157 SF	16 SF	34 SF	4 SF	17 SF
KITCHEN	207 SF	21 SF	34 SF	5 SF	17 SF
BEDROOM	257 SF	26 SF	48 SF	6 SF	24 SF
BEDROOM	267 SF	27 SF	40 SF	7 SF	20 SF
BEDROOM	125 SF	13 SF	17 SF	3 SF	8 SF
KITCHEN	336 SF	34 SF	40 SF	8 SF	20 SF
DINING ROOM	192 SF	19 SF	40 SF	5 SF	20 SF
LIVING ROOM	727 SF	73 SF	79 SF	18 SF	40 SF
BEDROOM	227 SF	23 SF	37 SF	6 SF	18 SF
BEDROOM	215 SF	22 SF	40 SF	5 SF	20 SF

EXIT STAIR CAPACITY

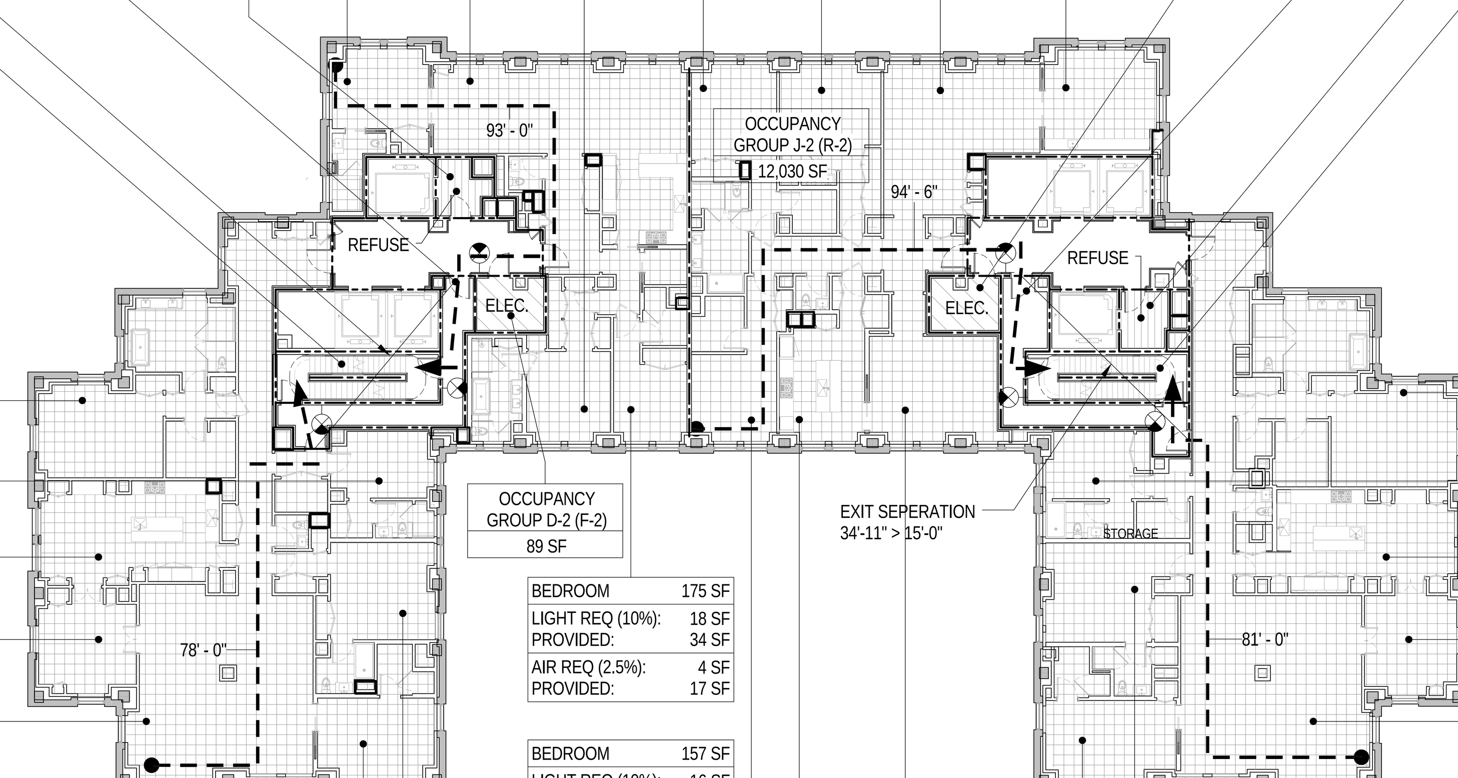
STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	36	1	30	36	1.5	60	30
STAIR B	36	1	30	36	1.5	60	30
STAIR C	36	1	30	36	1.5	60	30
STAIR D	36	1	30	36	1.5	60	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L41

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	180	200	2
J-2 (R-2)	12,134	140	87
TOTAL			91

1 LEVEL 39 - 40 CODE ANALYSIS
SCALE: 1/16" = 1'-0"



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EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
STAIR CAPACITY:	1.5 x 30 PEOPLE / UNIT = 30 PEOPLE

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH:	36" = 1.5 UNITS
DOOR CAPACITY:	1.5 x 40 PEOPLE / UNIT = 60 PEOPLE
STAIR WIDTH:	36" = 1.5 UNITS
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DOOR WIDTH:	36" = 1.5 UNITS
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STAIR WIDTH:	36" = 1.5 UNITS
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EXIT SEPERATION 33'-7" > 15'-0"

EXIT SEPERATION 34'-11" > 15'-0"

OCCUPANCY GROUP B-2 (S-2) 79 SF

OCCUPANCY GROUP D-2 (F-2) 90 SF

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AREAS AND OCCUPANCY LOADS L39-40

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	180	200	2
J-2 (R-2)	12,030	140	86
TOTAL			90

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COLUMNS, GIRDERS, TRUSSES	
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SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

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- B-2 STORAGE
- C MERCANTILE
- D-2 INDUSTRIAL (MECH. SPACES)
- F-3, F-4 ASSEMBLY
- J-1, J2 RESIDENTIAL

BUILDING LIMITATIONS

AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS

FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
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MEANS OF EGRESS

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*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
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CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:
- B-2 75'
- C, D-2, E 100'
- F-4 80'
- J-1, J-2 50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:
- B-2, C, J-1, J-2 36"
- D-2, E, F-4 44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:
- C, D-2, E 100'
- F-4 60'
- J-1, J-2 80'
- B-2 NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS

ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

DOOR REQUIREMENTS

ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS

STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):
- MAXIMUM RISER 7 3/4"
- MINIMUM TREAD 9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

REQUIRED DRINKING FOUNTAINS (410.2):
UP TO 50% OF THE REQUIRED DRINKING FOUNTAINS MAY BE SUBSTITUTED BY DEDICATED PLUMBING FIXTURES WITH FAUCETS DESIGNED FOR FILLING A CONTAINER AT LEAST 10" IN HEIGHT

SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES

FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND

- EXIT SIGN
- EXIT SIGN W/ EGRESS DIRECTION
- 0' 0" EGRESS PATH TRAVEL DISTANCE
- 1 HR FIRE RATED CONSTRUCTION
- 2 HR FIRE RATED CONSTRUCTION
- 3 HR FIRE RATED CONSTRUCTION
- OCCUPANCY GROUP — CLASSIFICATION; 150 SF — AREA

OCCUPANCY GROUPS
- EXISTING TO REMAIN - NOT IN CONTRACT
- B-2 (S-2)
- D-2 (F-2)
- J-2 (R-2)

DEPT OF BLDGS 121191245 Job Number
ES046146630 Scan Code

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

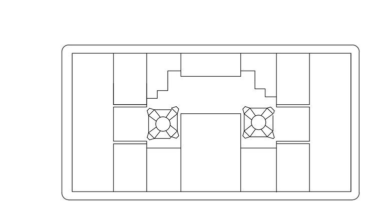
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-039.00

PAGE NUMBER
23 OF 137

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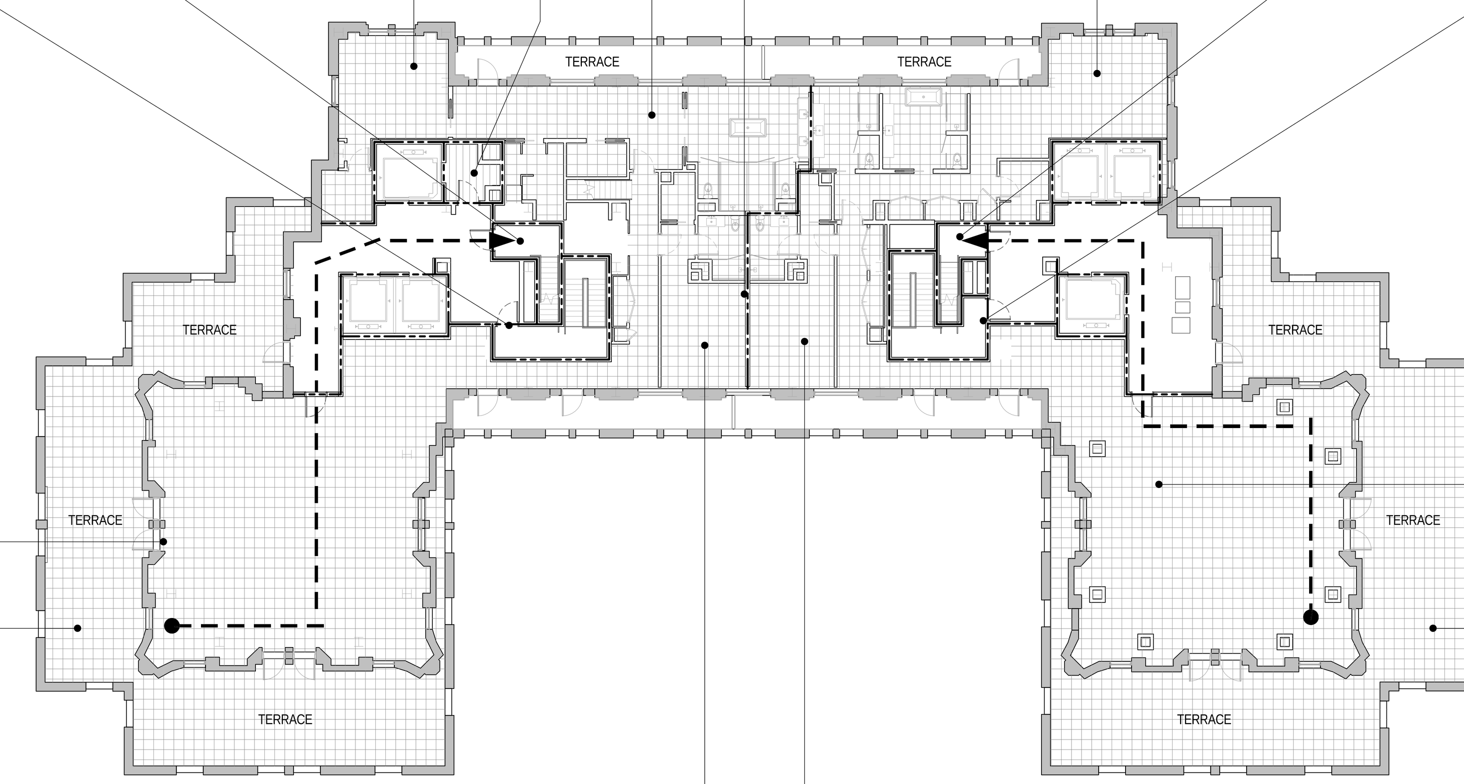
DEPT OF BLDGS 121191245 Job Number

ES002238370 Scan Code

2 LEVEL 43 CODE ANALYSIS
SCALE: 1/16" = 1'-0"



EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH: 36" = 1.5 UNITS	
DOOR CAPACITY: 1.5 x 40 PEOPLE / UNIT = 60 PEOPLE	
STAIR WIDTH: 36" = 1.5 UNITS	
STAIR CAPACITY: 1.5 x 30 PEOPLE / UNIT = 30 PEOPLE	

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH: 36" = 1.5 UNITS	
DOOR CAPACITY: 1.5 x 40 PEOPLE / UNIT = 60 PEOPLE	
STAIR WIDTH: 36" = 1.5 UNITS	
STAIR CAPACITY: 1.5 x 30 PEOPLE / UNIT = 30 PEOPLE	

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH: 36" = 1.5 UNITS	
DOOR CAPACITY: 1.5 x 40 PEOPLE / UNIT = 60 PEOPLE	
STAIR WIDTH: 36" = 1.5 UNITS	
STAIR CAPACITY: 1.5 x 30 PEOPLE / UNIT = 30 PEOPLE	

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH: 36" = 1.5 UNITS	
DOOR CAPACITY: 1.5 x 40 PEOPLE / UNIT = 60 PEOPLE	
STAIR WIDTH: 36" = 1.5 UNITS	
STAIR CAPACITY: 1.5 x 30 PEOPLE / UNIT = 30 PEOPLE	

BEDROOM	250 SF
LIGHT REQ (10%):	25 SF
PROVIDED:	28 SF
AIR REQ (2.5%):	6 SF
PROVIDED:	14 SF

LIVING	302 SF
LIGHT REQ (10%):	30 SF
PROVIDED:	80 SF
AIR REQ (2.5%):	8 SF
PROVIDED:	52 SF

BEDROOM	394 SF
LIGHT REQ (10%):	39 SF
PROVIDED:	52 SF
AIR REQ (2.5%):	10 SF
PROVIDED:	38 SF

OCCUPANCY GROUP B-2 — 79 SF

OCCUPANCY GROUP J-2 — 7,130 SF

LIVING	1,681 SF
LIGHT REQ (10%):	168 SF
PROVIDED:	220 SF
AIR REQ (2.5%):	42 SF
PROVIDED:	158 SF

OCCUPANCY GROUP J-2 (R-2) — 2,251 SF

OCCUPANCY GROUP J-2 (R-2) — 2,417 SF

LIVING	1,681 SF
LIGHT REQ (10%):	168 SF
PROVIDED:	220 SF
AIR REQ (2.5%):	42 SF
PROVIDED:	158 SF

BEDROOM	197 SF
LIGHT REQ (10%):	20 SF
PROVIDED:	28 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	14 SF

BEDROOM	237 SF
LIGHT REQ (10%):	24 SF
PROVIDED:	28 SF
AIR REQ (2.5%):	6 SF
PROVIDED:	14 SF

EXIT STAIR CAPACITY

STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	36	1.5	60	36	1.5	30	30
STAIR B	36	1.5	30	36	1.5	30	30
STAIR C	36	1.5	60	36	1.5	30	30
STAIR D	36	1.5	30	36	1.5	30	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

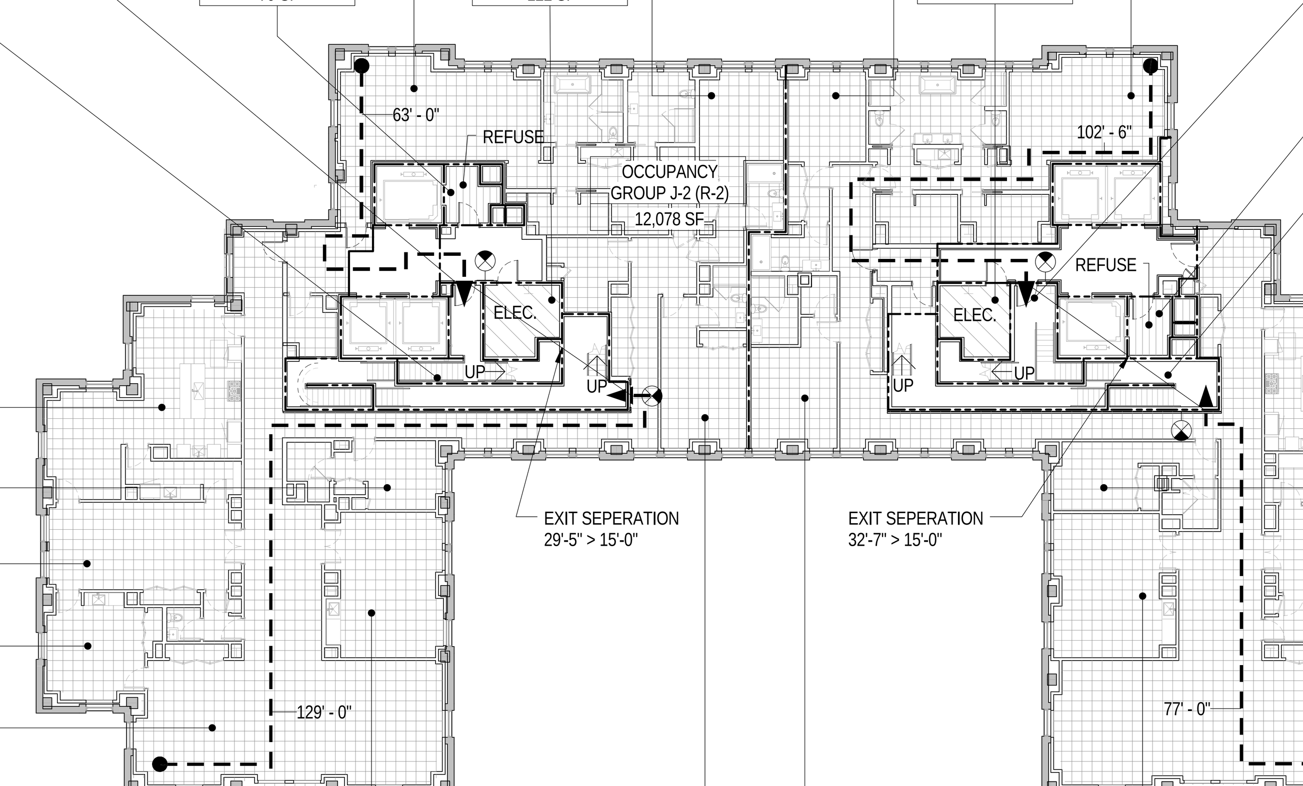
AREAS AND OCCUPANCY LOADS L43

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	79	200	1
J-2 (R-2)	7,131	140	51
Terrace	2,251	D	30
Terrace	2,417	D	30
TOTAL			112

* J-2 ACCESSORY

NOTE:
1. 'D' INDICATES POSTED OCCUPANCY. SIGNAGE TO BE PROVIDED TO INDICATE MAXIMUM OCCUPANCIES PER THE THE ABOVE OCCUPANT LOAD CHART.

1 LEVEL 42 CODE ANALYSIS
SCALE: 1/16" = 1'-0"



EXIT STAIR A	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH: 36" = 1.5 UNITS	
DOOR CAPACITY: 1.5 x 40 PEOPLE / UNIT = 60 PEOPLE	
STAIR WIDTH: 36" = 1.5 UNITS	
STAIR CAPACITY: 1.5 x 30 PEOPLE / UNIT = 30 PEOPLE	

EXIT STAIR C	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH: 36" = 1.5 UNITS	
DOOR CAPACITY: 1.5 x 40 PEOPLE / UNIT = 60 PEOPLE	
STAIR WIDTH: 36" = 1.5 UNITS	
STAIR CAPACITY: 1.5 x 30 PEOPLE / UNIT = 30 PEOPLE	

EXIT STAIR B	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH: 36" = 1.5 UNITS	
DOOR CAPACITY: 1.5 x 40 PEOPLE / UNIT = 60 PEOPLE	
STAIR WIDTH: 36" = 1.5 UNITS	
STAIR CAPACITY: 1.5 x 30 PEOPLE / UNIT = 30 PEOPLE	

EXIT STAIR D	TOTAL OCCUPANT CAPACITY: 30
DOOR WIDTH: 36" = 1.5 UNITS	
DOOR CAPACITY: 1.5 x 40 PEOPLE / UNIT = 60 PEOPLE	
STAIR WIDTH: 36" = 1.5 UNITS	
STAIR CAPACITY: 1.5 x 30 PEOPLE / UNIT = 30 PEOPLE	

BEDROOM	415 SF
LIGHT REQ (10%):	42 SF
PROVIDED:	90 SF
AIR REQ (2.5%):	10 SF
PROVIDED:	45 SF

BEDROOM	160 SF
LIGHT REQ (10%):	16 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

BEDROOM	152 SF
LIGHT REQ (10%):	15 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	4 SF
PROVIDED:	17 SF

BEDROOM	351 SF
LIGHT REQ (10%):	35 SF
PROVIDED:	62 SF
AIR REQ (2.5%):	9 SF
PROVIDED:	31 SF

OCCUPANCY GROUP B-2 (S-2) — 79 SF

OCCUPANCY GROUP D-2 (F-2) — 122 SF

OCCUPANCY GROUP D-2 (F-2) — 117 SF

OCCUPANCY GROUP B-2 (S-2) — 96 SF

KITCHEN	521 SF
LIGHT REQ (10%):	52 SF
PROVIDED:	76 SF
AIR REQ (2.5%):	13 SF
PROVIDED:	38 SF

BEDROOM	133 SF
LIGHT REQ (10%):	13 SF
PROVIDED:	17 SF
AIR REQ (2.5%):	3 SF
PROVIDED:	8 SF

DINING	333 SF
LIGHT REQ (10%):	33 SF
PROVIDED:	40 SF
AIR REQ (2.5%):	8 SF
PROVIDED:	20 SF

DINING	182 SF
LIGHT REQ (10%):	18 SF
PROVIDED:	44 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	34 SF

LIVING	803 SF
LIGHT REQ (10%):	80 SF
PROVIDED:	99 SF
AIR REQ (2.5%):	20 SF
PROVIDED:	49 SF

LIVING	322 SF
LIGHT REQ (10%):	32 SF
PROVIDED:	54 SF
AIR REQ (2.5%):	8 SF
PROVIDED:	27 SF

BEDROOM	322 SF
LIGHT REQ (10%):	32 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	8 SF
PROVIDED:	17 SF

KITCHEN	345 SF
LIGHT REQ (10%):	35 SF
PROVIDED:	40 SF
AIR REQ (2.5%):	9 SF
PROVIDED:	20 SF

DINING	210 SF
LIGHT REQ (10%):	21 SF
PROVIDED:	40 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	20 SF

BEDROOM	125 SF
LIGHT REQ (10%):	13 SF
PROVIDED:	17 SF
AIR REQ (2.5%):	3 SF
PROVIDED:	8 SF

DINING	352 SF
LIGHT REQ (10%):	35 SF
PROVIDED:	40 SF
AIR REQ (2.5%):	9 SF
PROVIDED:	20 SF

BEDROOM	201 SF
LIGHT REQ (10%):	20 SF
PROVIDED:	40 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	20 SF

LIVING	847 SF
LIGHT REQ (10%):	85 SF
PROVIDED:	119 SF
AIR REQ (2.5%):	21 SF
PROVIDED:	59 SF

LIVING	331 SF
LIGHT REQ (10%):	33 SF
PROVIDED:	54 SF
AIR REQ (2.5%):	8 SF
PROVIDED:	27 SF

BEDROOM	186 SF
LIGHT REQ (10%):	19 SF
PROVIDED:	34 SF
AIR REQ (2.5%):	5 SF
PROVIDED:	17 SF

EXIT STAIR CAPACITY

STAIR	STAIR			DOOR			TOTAL
	WIDTH	UNITS	CAPACITY	WIDTH	UNITS	CAPACITY	CAPACITY
STAIR A	36	1.5	60	36	1.5	30	30
STAIR B	36	1.5	30	36	1.5	30	30
STAIR C	36	1.5	60	36	1.5	30	30
STAIR D	36	1.5	30	36	1.5	30	30
TOTAL							120

*36" STAIRS LIMITED TO 30 PERSON OCCUPANCY. (SECT. 27-375 (b))

AREAS AND OCCUPANCY LOADS L42

OCCUPANCY GROUP	AREA (SF)	NFA PER OCCUPANT	OCCUPANT LOAD
B-2 (S-2)	175	200	2
D-2 (F-2)	239	200	2
J-2 (R-2)	12,078	140	87
TOTAL			91

BUILDING CODE
BUILDING CODE OF THE CITY OF NEW YORK (TITLES 26 AND 27 OF THE ADMINISTRATIVE CODE) - 1968 EDITION WITH REVISIONS THROUGH 2008

BUILDING CODE OF THE CITY OF NEW YORK GENERAL ADMINISTRATIVE PROVISIONS - 2014

CONSTRUCTION CLASSIFICATION
DESIGNATIONS FROM TABLE 3-4
CONSTRUCTION CLASSIFICATION: 1-A
FIRE RESISTIVE REQUIREMENTS: CLASS 1-A

BUILDING ELEMENT	RATING
EXTERIOR/INTERIOR BEARING WALLS	4 HRS
EXTERIOR NON-BEARING WALLS	
SEPARATION LESS THAN 15'-0"	2 HRS
SEPARATION BETWEEN 15'-0" AND 30'-0"	1 1/2 HRS
SEPARATION EQ. OR GREATER THAN 30'-0"	0 HRS
STAIRS, EXIT PASSAGES, HOISTWAYS, SHAFTS	2 HRS
COLUMNS, GIRDERS, TRUSSES	
SUPPORTING ONE FLOOR	3 HRS
SUPPORTING MORE THAN ONE FLOOR	4HRS
FLOOR CONSTRUCTION	3HRS
ROOF CONSTRUCTION	2 HRS
ELEMENTS GREATER THAN 20'-0" ABOVE FLOOR BELOW	NR

OCCUPANCY CLASSIFICATIONS
DESIGNATIONS FOR BUILDING: MIXED OCCUPANCY CLASSIFICATIONS IN BUILDING:

B-2	STORAGE
C	MERCANTILE
D-2	INDUSTRIAL (MECH. SPACES)
F-3, F-4	ASSEMBLY
J-1, J2	RESIDENTIAL

BUILDING LIMITATIONS
AREA AND HEIGHT LIMITATIONS FROM TABLE 4-2
SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954,
CLASS 1-A CONSTRUCTION: NO LIMIT FOR HT. AND AREA

FIRE SEPARATIONS/DIVISIONS
FIRE SEPARATIONS & DIVISIONS

	ADJACENT OCCUPANCY	REQUIRED RATING: FIRE SEPARATION	FIRE DIVISION
B-2	C	NR**	2-HR
B-2	D-2	NR**	2-HR
B-2	F-1	NR**	2-HR
B-2	F-4	NR**	2-HR
B-2	J-1	NR**	2-HR
B-2	J-2	NR**	2-HR
C	D-2	NR**	2-HR
C	J-1	NR**	2-HR
C	J-2	NR**	2-HR
D-2	F-1	NR**	2-HR
D-2	F-4	NR**	2-HR
D-2	J-1	NR**	2-HR
D-2	J-2	NR**	2-HR
F-1	F-4	NR**	2-HR
F-1	J-1	1-HR	2-HR
F-1	J-2	1-HR	2-HR
F-4	J-1	1-HR	2-HR
F-4	J-2	1-HR	2-HR
J-1	J-2	NR**	2-HR

*SPACES ARE FULLY SPRINKLERED IN ACCORDANCE WITH SECT. 27-954.
** FIRE SEPARATIONS WITH NO REQUIREMENT SHALL BE MINIMUM 1 HR RATED IF ADJACENT OCCUPANCIES ARE OCCUPIED BY DIFFERENT TENANTS. (SECT 27-341 (a))

MEANS OF EGRESS
CAPACITY OF EXITS* (TABLE 6-1, TABLE 8-1)

GROUP	MAX. TRAVEL DISTANCE PRIMARY/ SECONDARY (FT)*	DOORS OPENING TO OUTDOORS AT GRADE CAPACITY	EXIT AND CORRIDOR DOOR CAPACITY	STAIR CAPACITY
B-2	175	75	60	45
C	200	100	80	60
D-2	200	100	80	60
F-4	127.5/187.5	100	50/100**	60
J-1	200	50	40	30
J-2	200	50	40	30

*MAXIMUM TRAVEL DISTANCE LISTED FOR SPRINKLERED SPACE, U.O.N.
**DOOR CAPACITY DIRECT FROM ASSEMBLY / DIRECT FROM SAFE AREA (TABLE 8-1, SECT. 27-535)
***CORRIDORS THAT ARE ENCLOSED IN 2HR RATED CONSTRUCTION MAY HAVE DEAD-END AS OUTLINED IN TABLE 6-1 INCREASED 100% (SECT. 27-369(d)).

CAPACITY OF PASSAGEWAYS, CORRIDORS, AND RAMPS (NO. OF PERSONS PER UNIT OF WIDTH) FOR OCCUPANCIES:

B-2	75'
C, D-2, E	100'
F-4	80'
J-1, J-2	50'

MINIMUM CORRIDOR WIDTH FOR OCCUPANCIES:

B-2, C, J-1, J-2	36"
D-2, E, F-4	44"

MAXIMUM DEAD END LENGTH FOR OCCUPANCIES:

C, D-2, E	100'
F-4	60'
J-1, J-2	80'
B-2	NO REQUIREMENTS

NOTE: CAPACITIES LISTED AS PERSONS PER UNIT WIDTH. ONE UNIT WIDTH = 22" (SECT. 27-259)

EXIT ENCLOSURE REQUIREMENTS
ALL EXITS TO BE ENCLOSED IN 2 HOUR FIRE RATED ASSEMBLIES MINIMUM (TABLE 3-4 & SECT. 27-370)

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ALL DOORS IN EXIT ENCLOSURE SHALL BE 1 1/2 HOUR FIRE RATED B LEVEL, SELF CLOSING DOORS.

STAIR REQUIREMENTS
STAIR RISERS AND TREADS: (TABLE 6-4 & SECT. 27-375(e)):

MAXIMUM RISER	7 3/4"
MINIMUM TREAD	9 1/2" PLUS NOSING

NOTE: THE SUM OF 2 RISERS AND 1 TREAD MUST BE BETWEEN 24" AND 25.5" (SECT. 27-375 (e))

PLUMBING FACILITIES
2014 NYC PLUMBING CODE

MINIMUM NUMBER OF FIXTURES (SECTION 403.1):
PLUMBING FIXTURES SHALL BE PROVIDED FOR THE TYPE OF OCCUPANCY AND IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1. TYPES OF OCCUPANCIES NOT SHOWN IN TABLE 403.1 SHALL BE CONSIDERED INDIVIDUALLY BY THE COMMISSIONER. THE NUMBER OF OCCUPANTS AND OCCUPANCY CLASSIFICATION SHALL BE DETERMINED BY THE NYCBC.

PLUMBING FIXTURES	J-2
FIXTURE	REQUIRED
WATER CLOSETS	1 PER UNIT
LAVATORIES	1 PER UNIT
BATHTUB / SHOWER	1 PER UNIT
OTHER	1 KITCHEN SINK PER UNIT 1 AUTOMATIC CLOTHES WASHER COMMENCTION PER 20 UNITS

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SUBSTITUTION FOR WATER CLOSETS (419.2):
URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50% OF THE REQUIRED WATER CLOSETS

FSAE NOTES
FIRE SERVICE ACCESS ELEVATOR (SECTION 3007):

FIRE SERVICE ACCESS ELEVATOR LOBBY
NOT REQUIRED PER BC 3007.6 EXCEPTION 2

ELEVATORS R-SE1 AND R-SE2 TO OPEN ONTO A CORRIDOR ENCLOSED WITH A FIRE BARRIER WITH A MINIMUM RATING OF 1 HOUR. ALL DOORS OPENING ONTO SUCH CORRIDOR TO BE SMOKE AND DRAFT CONTROLLED DOORS.

LEGEND
EXIT SIGN
EXIT SIGN W/ EGRESS DIRECTION
EGRESS PATH
0' 0" TRAVEL DISTANCE
1 HR FIRE RATED CONSTRUCTION
2 HR FIRE RATED CONSTRUCTION
3 HR FIRE RATED CONSTRUCTION
OCCUPANCY GROUP — CLASSIFICATION
150 SF — AREA

OCCUPANCY GROUPS
EXISTING TO REMAIN - NOT IN CONTRACT
B-2 (S-2)
D-2 (F-2)
J-2 (R-2)

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

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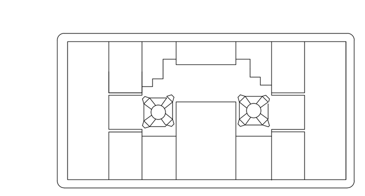
SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
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DRAWING TITLE
CODE ANALYSIS

B-SCAN - DRAWING NUMBER
A-040.00

PAGE NUMBER
24 OF 137

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1 CELLAR - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

1. ALL SLAB PENETRATIONS FOR PIPES, CONDUITS, ETC (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A 3 HOUR RATED SYSTEM. ALL MULTI PIPE PENETRATIONS TO HAVE A MULTI PIPE SYSTEM.
2. ALL PENETRATIONS THROUGH EXISTING AND NEW RATED WALL ASSEMBLIES TO HAVE A FIRESTOP ASSEMBLY SYSTEM TO MATCH THE RATING OF THE WALL.
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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

DEPT OF BLDGS 121191245 Job Number
ES315989655 Scan Code

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New York, NY 10022

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Philip Habib & Associates

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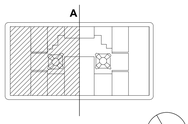
SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

DRAWING TITLE

CELLAR - PART PLAN A

B-SCAN - DRAWING NUMBER

A-105.00

PAGE NUMBER

25 OF 137

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DEPT OF BLDGS 121515245 Job Number
ES1404612SK Scan Code

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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EXTERIOR WALL CONSULTANT
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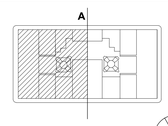
SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TILES
No. 023348
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	27 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
BASEMENT - PART PLAN A

B-SCAN - DRAWING NUMBER
A-107.00

PAGE NUMBER
26 OF 137

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1 BASEMENT - PART PLAN A
SCALE: 1/8" = 1'-0"

DEPT OF BLDGS 121151245 Job Number
E3806897503 Scan Code

1 BASEMENT - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- 200 WINDOW TAG

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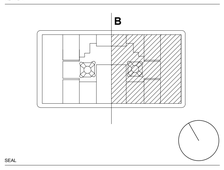
Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TAM
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
4	20 JUN 2017	ISSUED TO DOB
3	31 MAR 2017	ISSUED TO DOB
2	10 FEB 2017	ISSUED TO DOB
1	07 NOV 2016	ISSUED TO DOB

DRAWING TITLE
BASEMENT - PART PLAN B

B-SCAN - DRAWING NUMBER
A-108.00

PAGE NUMBER
27 OF 137

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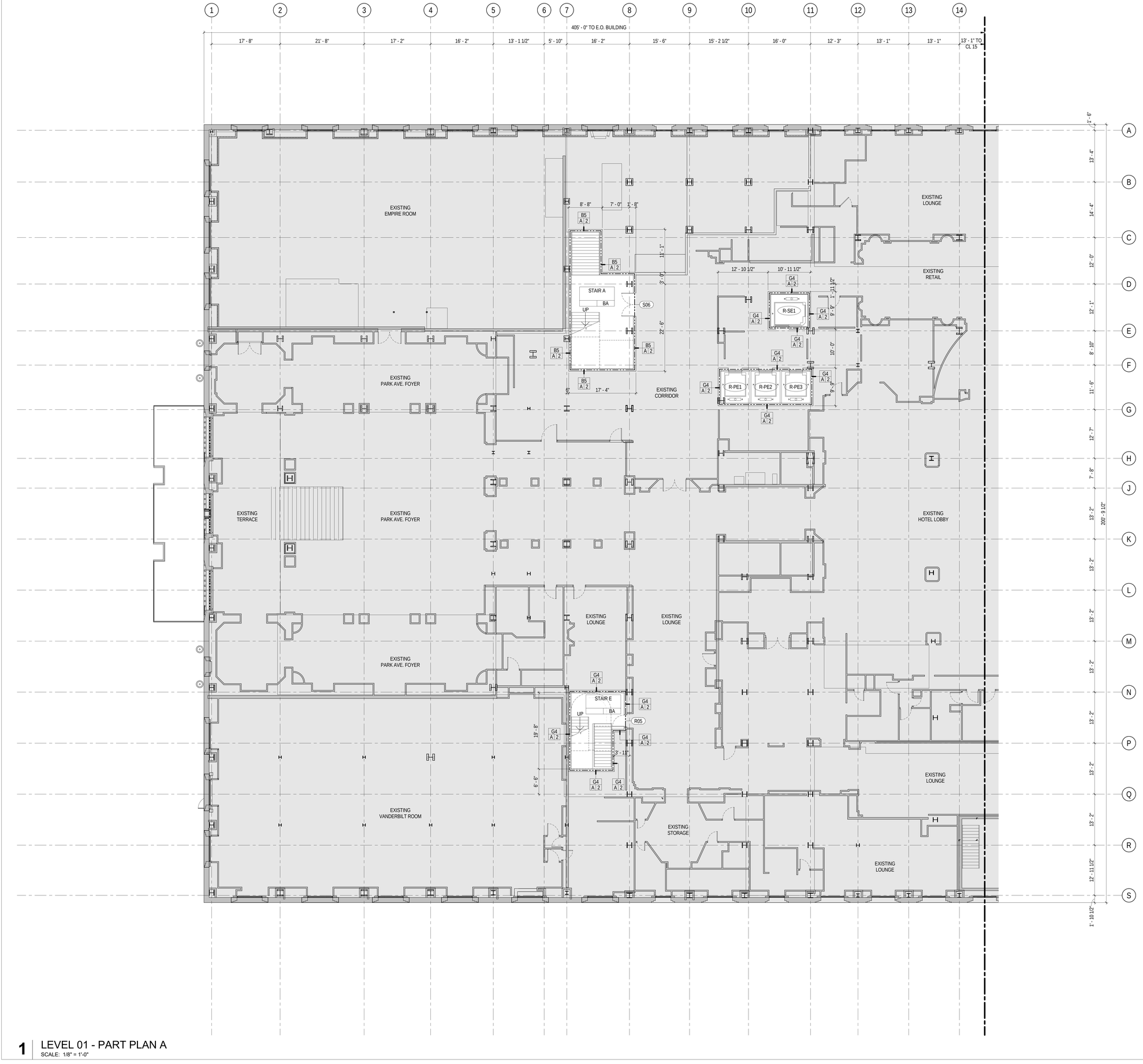
DEPT OF BLDGS 121151245 Job Number
E3957556556 Scan Code



1 LEVEL 01 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
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SHEET	KITCHEN TYPE
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
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A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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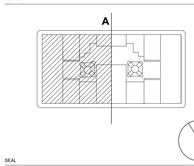
Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TILES
No. 023348
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 1 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-109.00

PAGE NUMBER
28 OF 137

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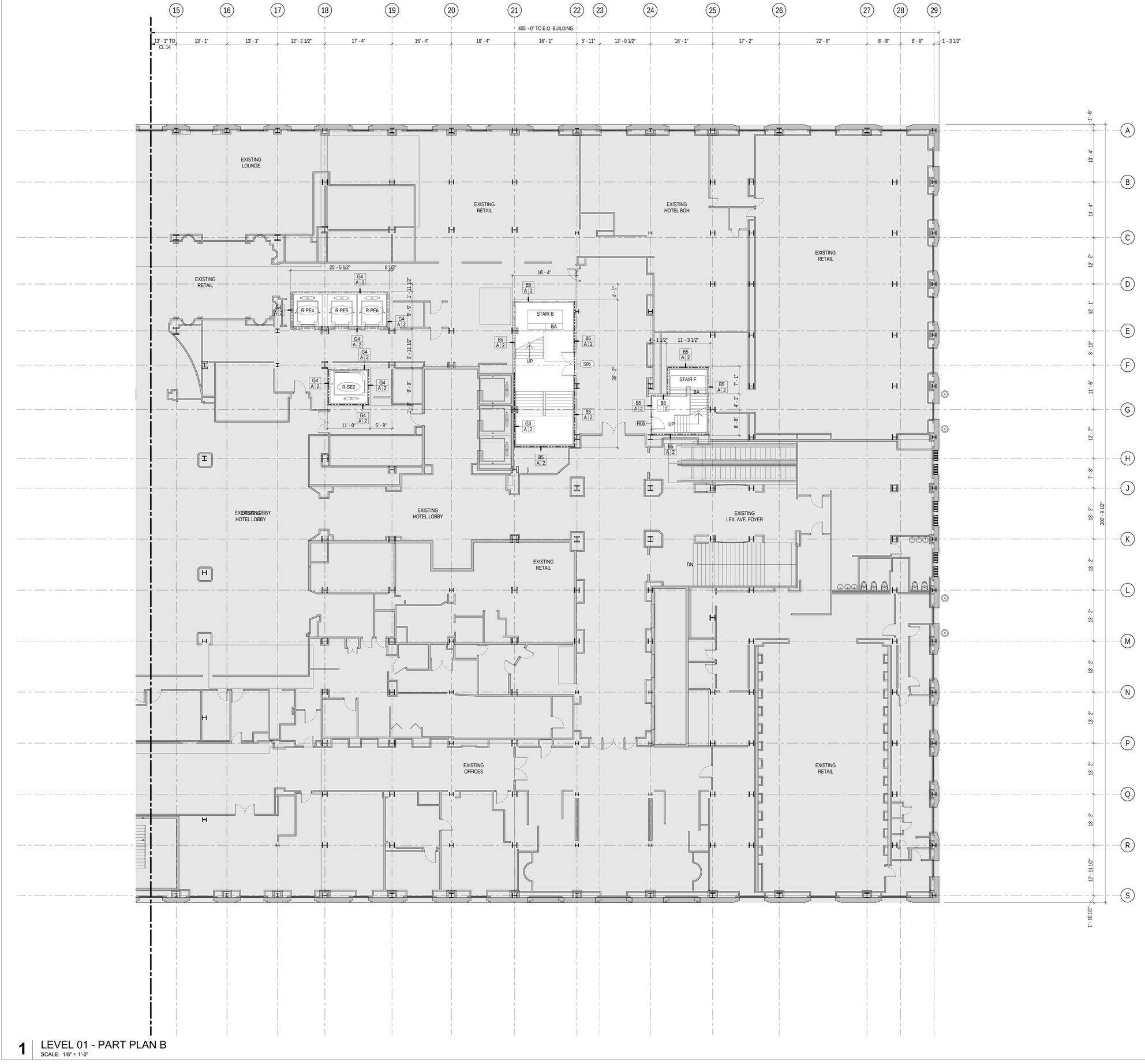
E1517295895 Scan Code



1 LEVEL 01 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
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A-723	A7, A8, A9
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A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
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4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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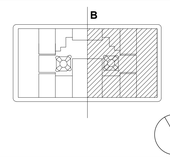
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TIBBS
No. 023325
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 1 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-110.00

PAGE NUMBER
29 OF 137

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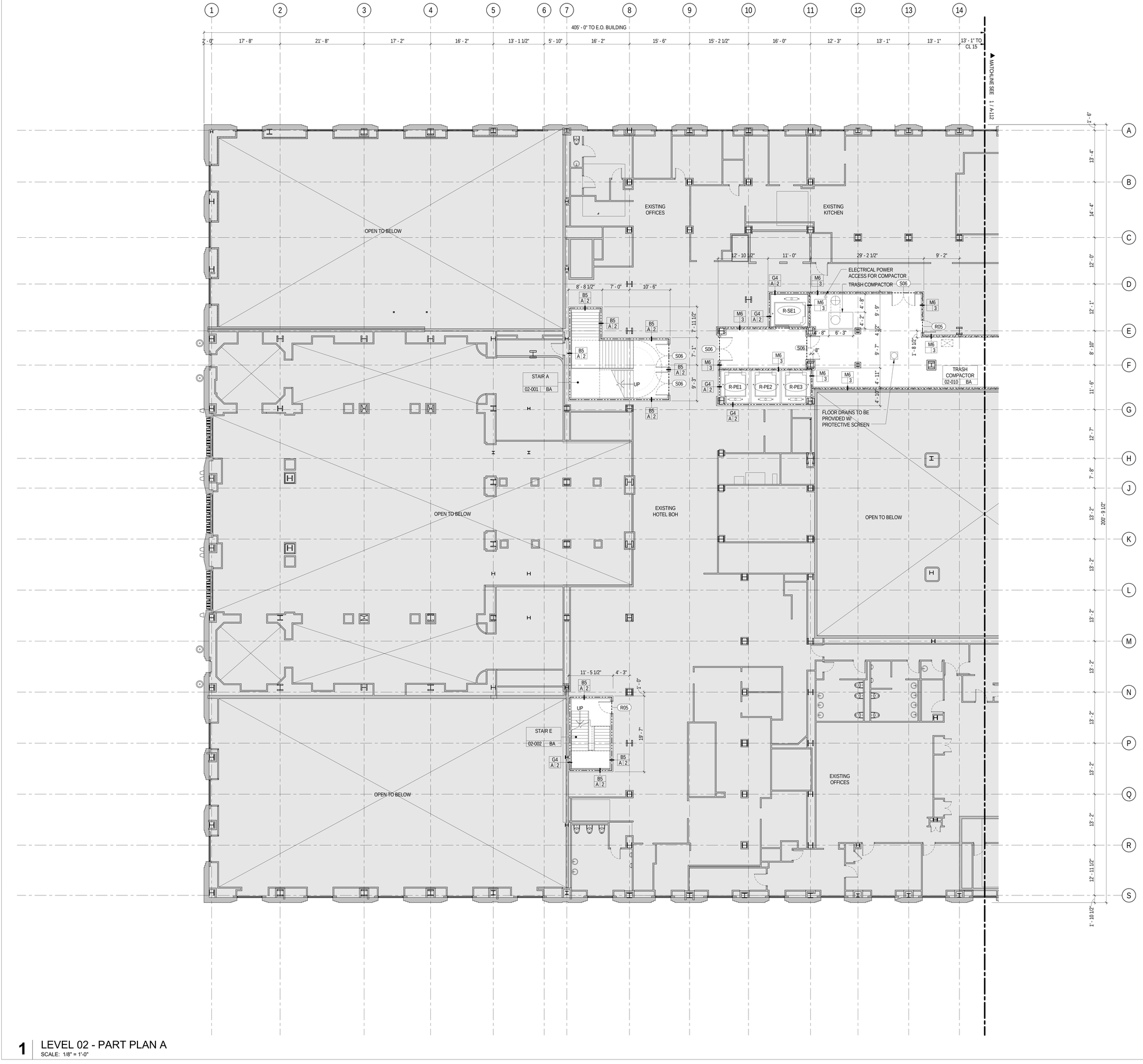
DEPT OF BLDGS 121151245 Job Number
E101087/2005 Scan Code



1 LEVEL 02 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
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A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

COMPACTOR ROOM NOTES

1. TRASH COMPACTOR ROOM TO COMPLY WITH BC1101, BC1213.3, BC708.13, AND AC24-119
2. CHUTE TERMINATION ROOM TO BE ENCLOSED BY A 3HR FIRE RESISTANCE RATING (WALLS, FLOOR, AND CEILING) CONSTRUCTED IN ACCORDANCE WITH BC 707.
3. ALL COMPACTOR ROOM WALLS (TYPE M9), FLOOR AND CEILING TO COMPLY WITH STC 50. TRASH CHUTE WALLS (TYPE G4) TO COMPLY WITH STC 50. BC 1213.3 & 708.13
4. OPENINGS INTO THE TERMINATION ROOM TO HAVE A 1 ½ HOUR FIRE RESISTANCE RATING AND SHALL BE SELF CLOSING PER BC 708.13.4
5. IMPACT INSULATION CLASS OF 50 TO BE PROVIDED FOR COMPACTOR ROOM FLOOR AND CEILING CONSTRUCTION.
6. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN
7. REFER TO 15/A-803 FOR TERMINATION DETAILS
8. VENTILATION ACCESS TO FRESH AIR TO BE PROVIDED VIA POWER VENTILATION.

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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SECURITY CONSULTANT
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Azmi Zahed-Atkins, RA
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Date: 07/14/2017
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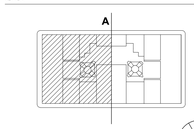
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TIBBS
No. 025348
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 2 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-111.00

PAGE NUMBER
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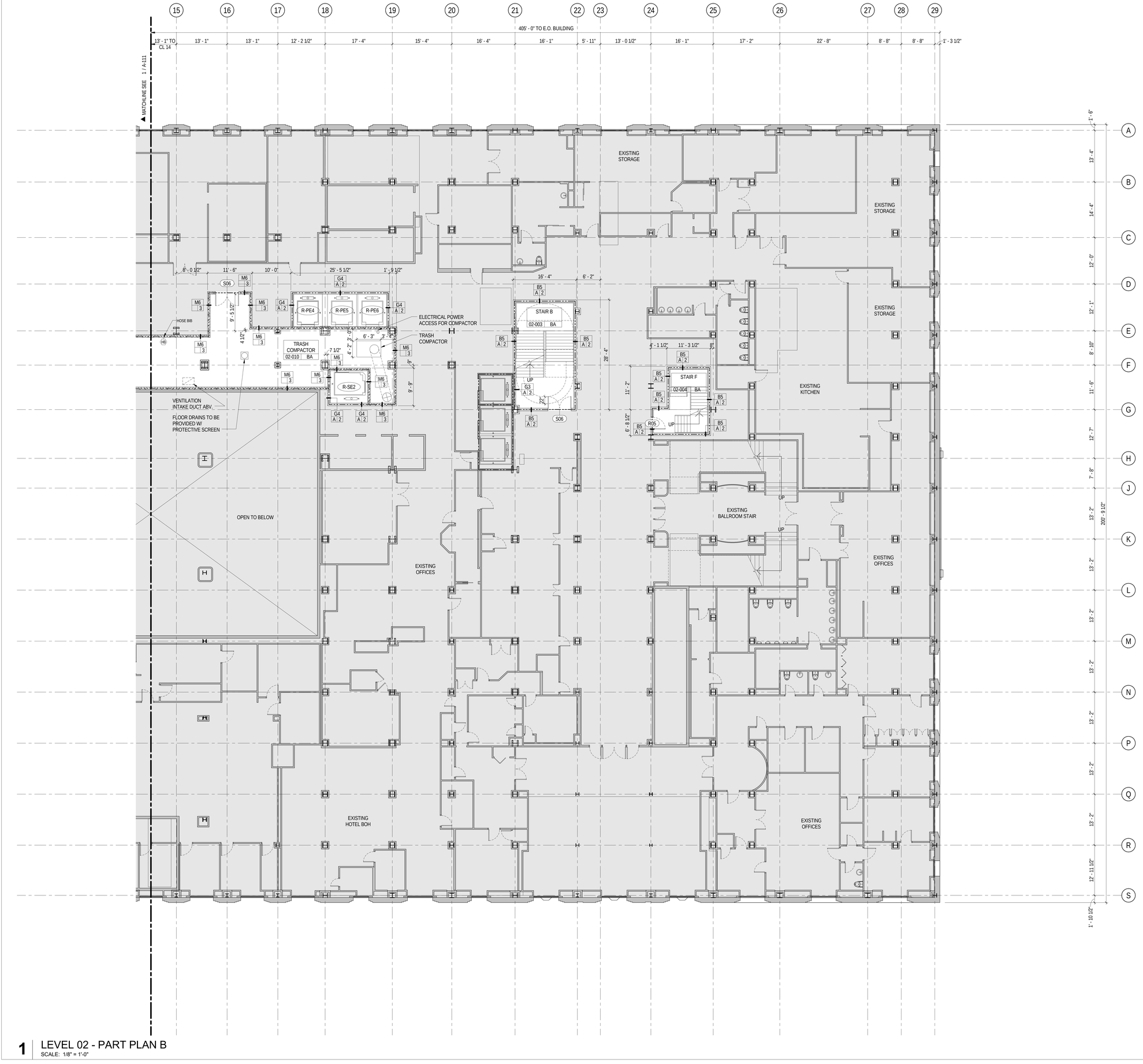
DEPT OF BLDGS 121315245 Job Number
E-DOT-FOLDER Scan Code



1 LEVEL 02 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

1. ALL SLAB PENETRATIONS FOR PIPES, CONDUITS, ETC (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A 3 HOUR RATED SYSTEM. ALL MULTI PIPE PENETRATIONS TO HAVE A MULTI PIPE SYSTEM.
2. ALL PENETRATIONS THROUGH EXISTING AND NEW RATED WALL ASSEMBLIES TO HAVE A FIRESTOP ASSEMBLY SYSTEM TO MATCH THE RATING OF THE WALL.
3. SHADED AREAS ARE NOT IN CONTRACT (N.I.C.). REFER TO ALL DISCIPLINES FOR NIC HATCH RELATIVE TO EACH DISCIPLINES SCOPE OF WORK.
4. THE PRECISE NUMBER, SIZE, AND LOCATION OF ALL HOUSEKEEPING PADS REQUIRED TO SUPPORT OR MAINTAIN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT SHALL BE CONFIRMED WITH THE EQUIPMENT SUPPLIERS
5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

COMPACTOR ROOM NOTES

1. TRASH COMPACTOR ROOM TO COMPLY WITH BC1101, BC1213.3, BC708.13, AND AC24-119
2. CHUTE TERMINATION ROOM TO BE ENCLOSED BY A 3HR FIRE RESISTANCE RATING (WALLS, FLOOR, AND CEILING) CONSTRUCTED IN ACCORDANCE WITH BC 707.
3. ALL COMPACTOR ROOM WALLS (TYPE M6), FLOOR AND CEILING TO COMPLY WITH STC 50. TRASH CHUTE WALLS (TYPE G4) TO COMPLY WITH STC 50. BC 1213.3 & 708.13
4. OPENINGS INTO THE TERMINATION ROOM TO HAVE A 1 ½ HOUR FIRE RESISTANCE RATING AND SHALL BE SELF-CLOSING PER BC 708.13.4
5. IMPACT INSULATION CLASS OF 50 TO BE PROVIDED FOR COMPACTOR ROOM FLOOR AND CEILING CONSTRUCTION.
6. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN
7. REFER TO 15/A-803 FOR TERMINATION DETAILS
8. VENTILATION ACCESS TO FRESH AIR TO BE PROVIDED VIA POWER VENTILATION.

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

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ANBANG GROUP 安邦集团

ARCHITECT
SOM
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Kroll Inc.

Azmi Zahed-Atkins, RA
No. 037975
Building
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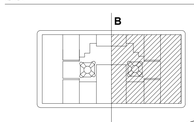
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TAM
No. 023935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 2 - PART PLAN B

B-SCAN - DRAWING NUMBER
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PAGE NUMBER
31 OF 137

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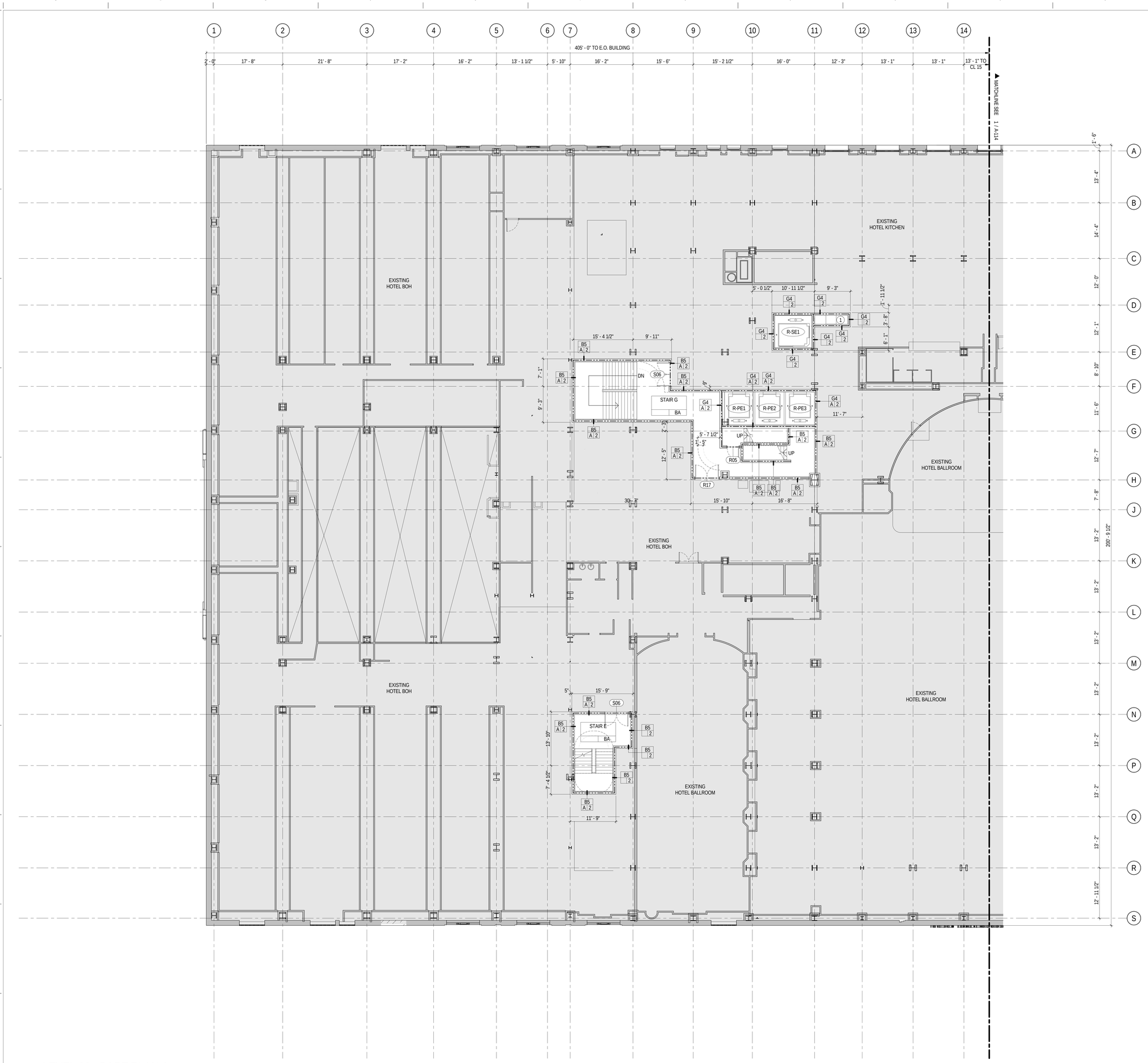

1 LEVEL 03 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
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4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
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8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

GENERAL NOTES

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

WALDORF ASTORIA

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WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM YARI
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1		

DRAWING TITLE
LEVEL 3 - PART PLAN A

B-SCAN - DRAWING NUMBER
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PAGE NUMBER
32 OF 137

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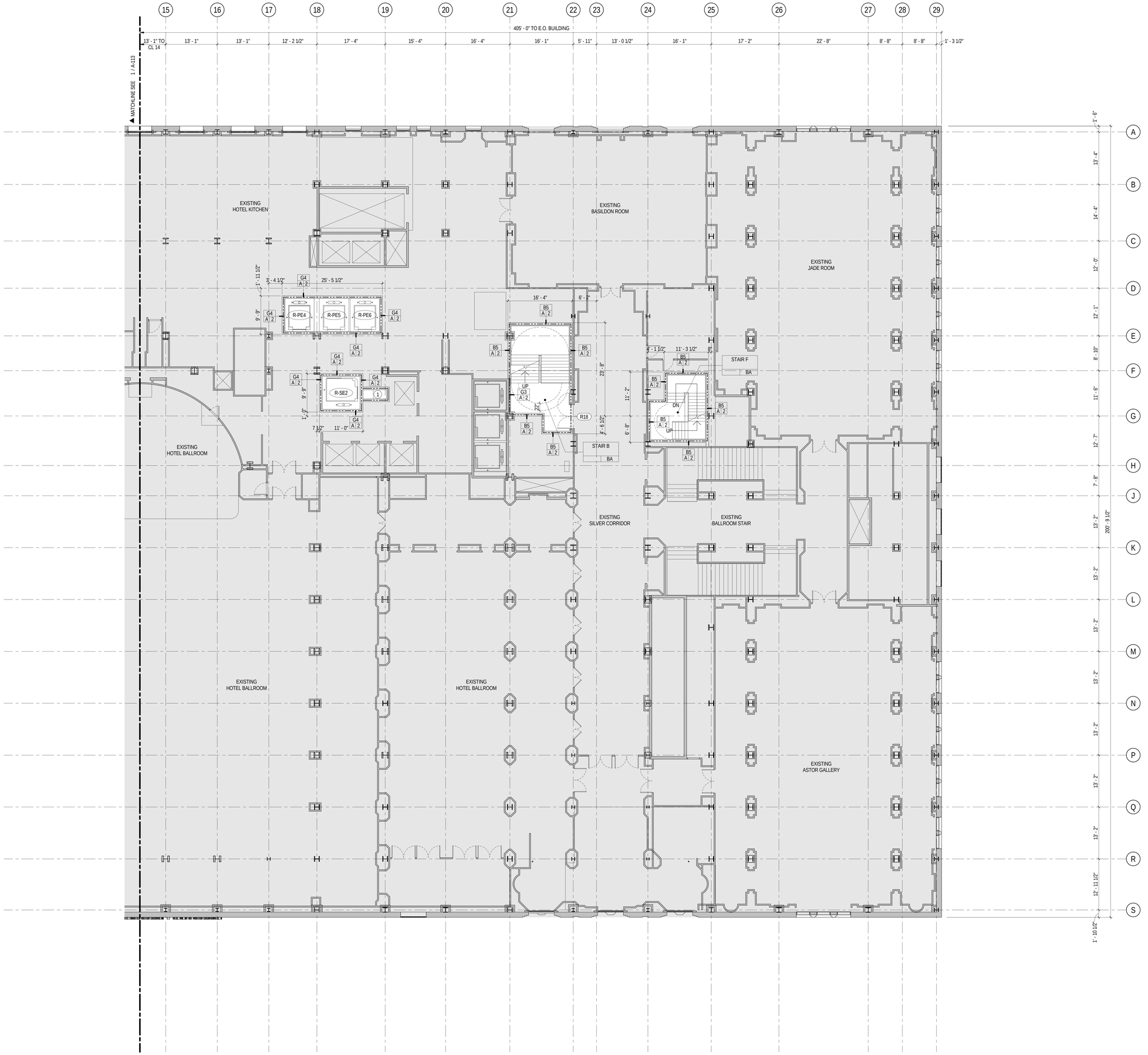

1 LEVEL 03 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
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A-724	A10, A11, A12
A-725	A13, A14, A15
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GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

WALDORF ASTORIA

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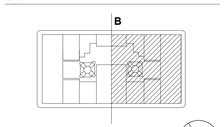
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM CREE
No. 023325
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 3 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-114.00

PAGE NUMBER
33 OF 137

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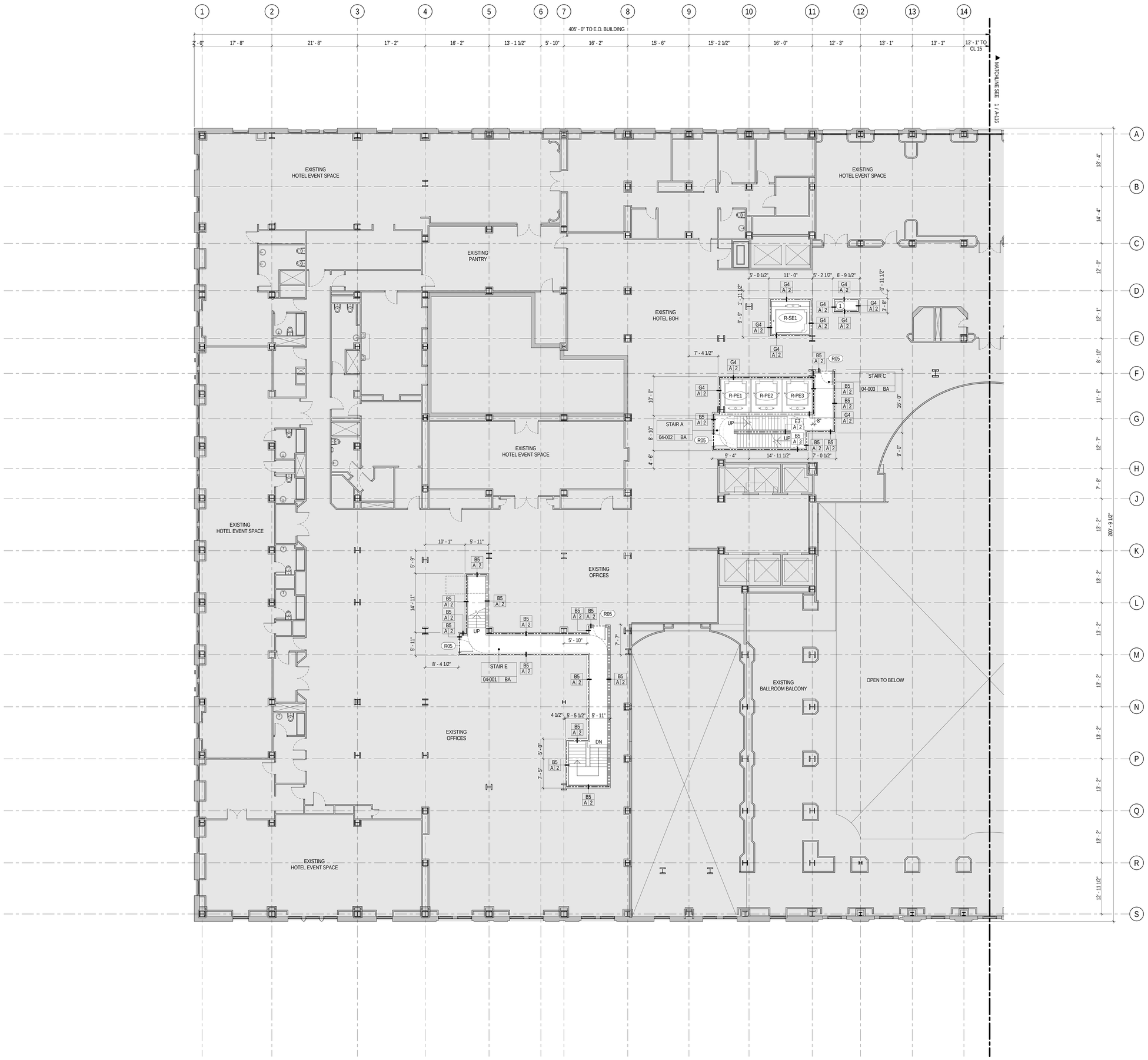

1 LEVEL 04 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
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A-725	A13, A14, A15
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GENERAL NOTES

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- 200 WINDOW TAG

WALDORF ASTORIA

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Date: 07/14/2017
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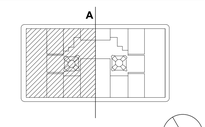
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM VAN
LIC. NO. 023325
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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DRAWING TITLE
LEVEL 4 - PART PLAN A

B-SCAN - DRAWING NUMBER
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PAGE NUMBER
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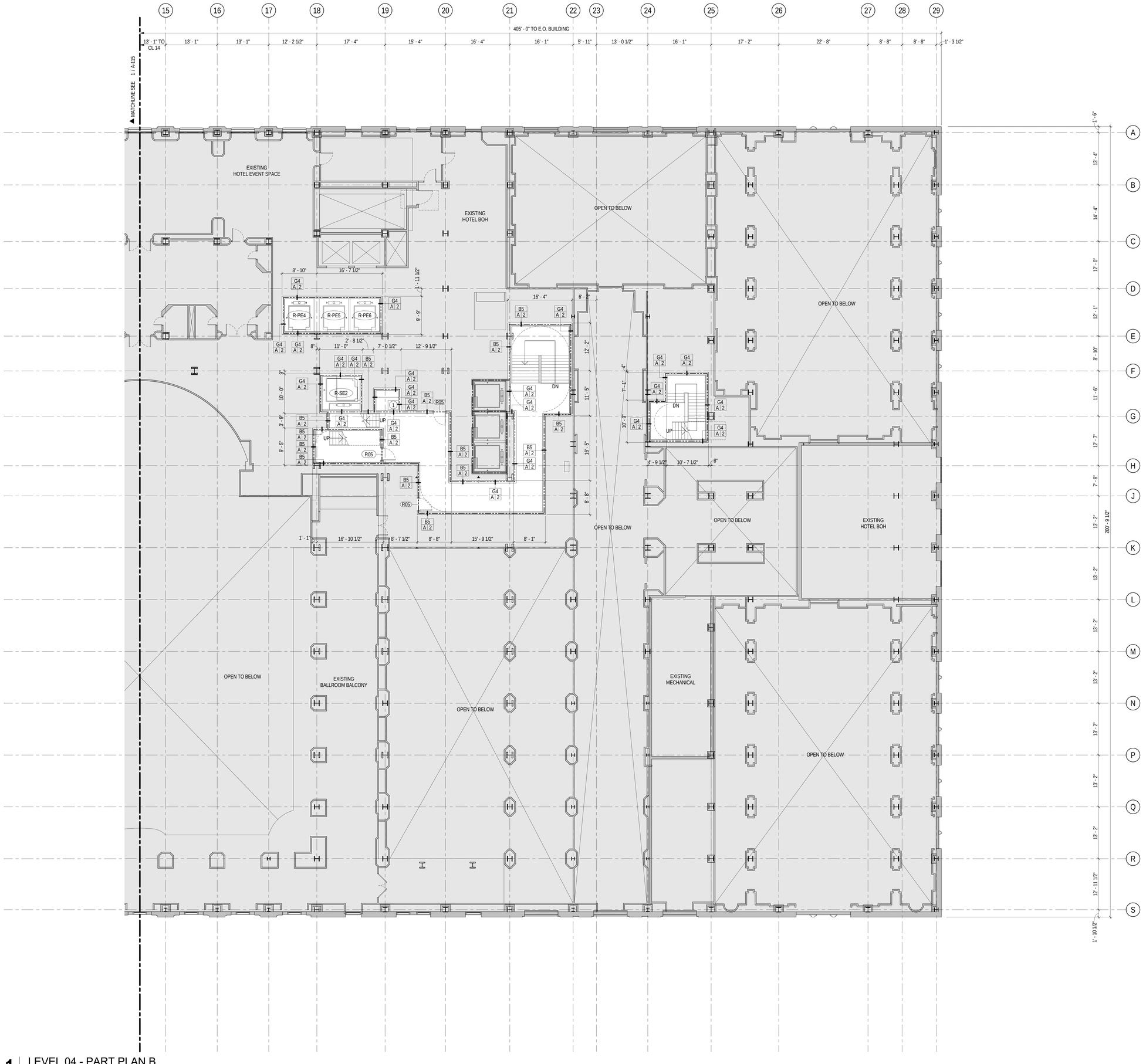

1 LEVEL 04 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
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SHEET	BATHROOM TYPE
A-721	A1, A2, A3
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A-723	A7, A8, A9
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KEYED NOTES

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LEGEND

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4 HR RATED PARTITION
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200 WINDOW TAG

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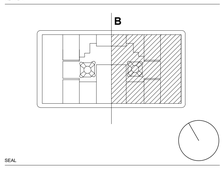
KEYPLAN



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DRAWING TITLE

LEVEL 4 - PART PLAN B

B-SCAN - DRAWING NUMBER

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E390053927FS Scan Code

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3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

1. ALL SLAB PENETRATIONS FOR PIPES, CONDUITS, ETC (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A 3 HOUR RATED SYSTEM. ALL MULTI PIPE PENETRATIONS TO HAVE A MULTI PIPE SYSTEM.
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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

1 LEVEL 05 - PART PLAN A
SCALE: 1/8" = 1'-0"

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Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL
REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1		

DRAWING TITLE
LEVEL 5 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-117.00

PAGE NUMBER
36 OF 137

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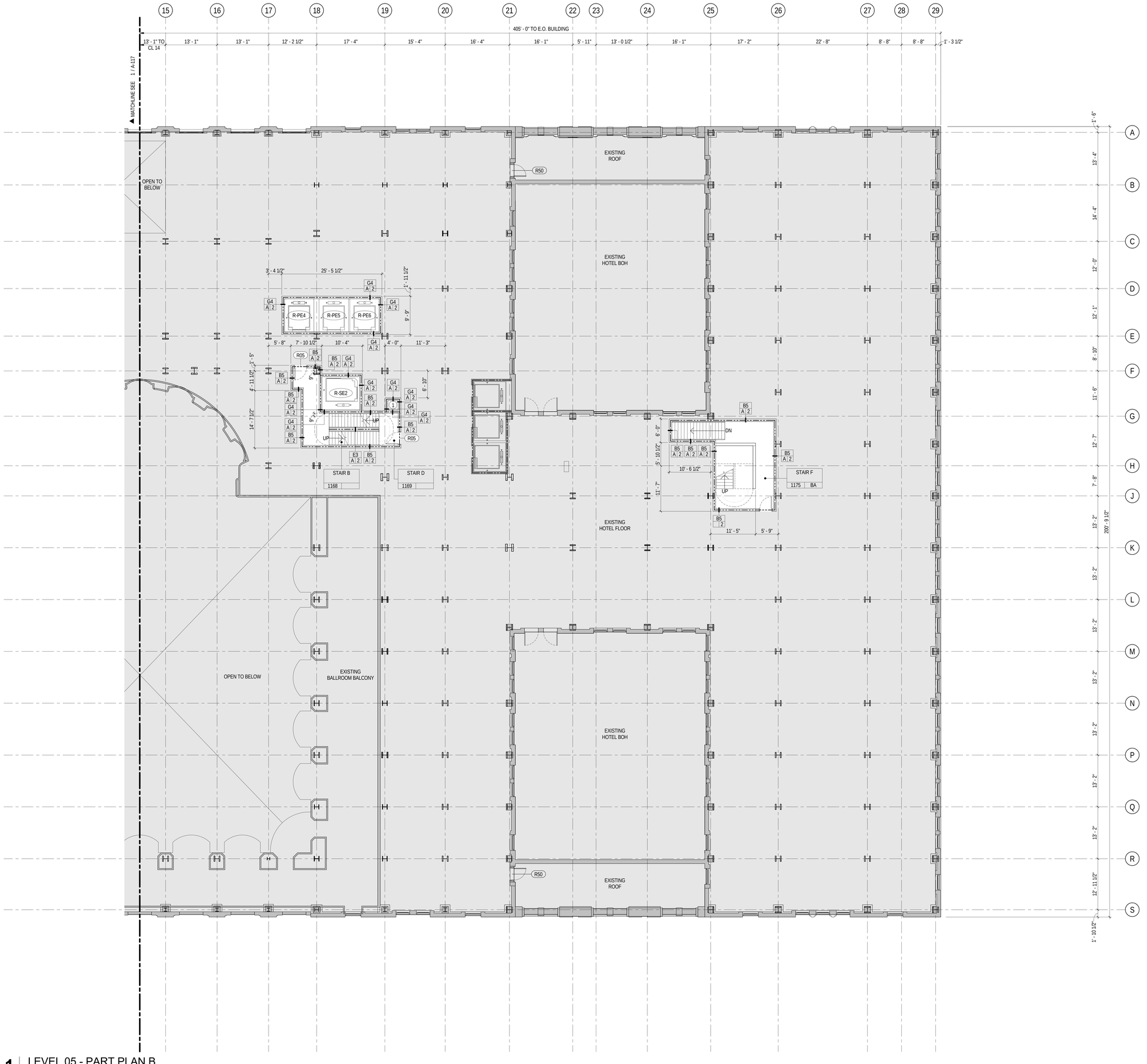
DEPT OF BLDGS 121191245 Job Number
E3305012007 Scan Code



1 LEVEL 05 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
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SHEET	KITCHEN TYPE
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A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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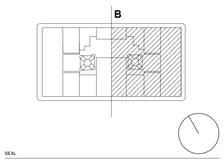
EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

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KENNETH ADAM TARR
No. 023335
STATE OF NEW YORK

NO:	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 5 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-118.00

PAGE NUMBER
37 OF 137

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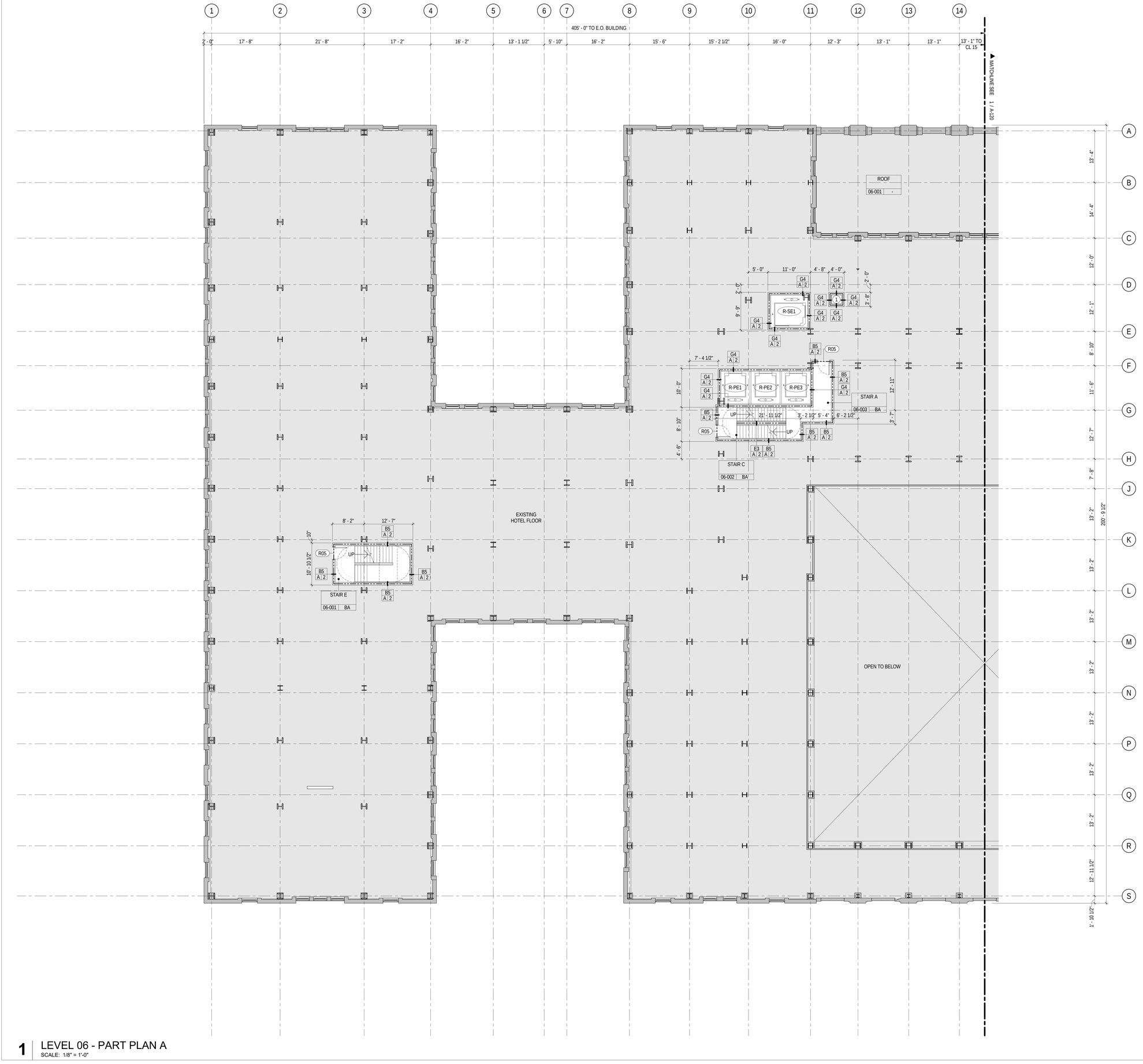

1 LEVEL 06 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
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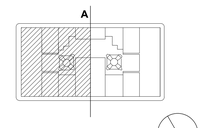

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No. 023338
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 6 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-119.00

PAGE NUMBER
38 OF 137

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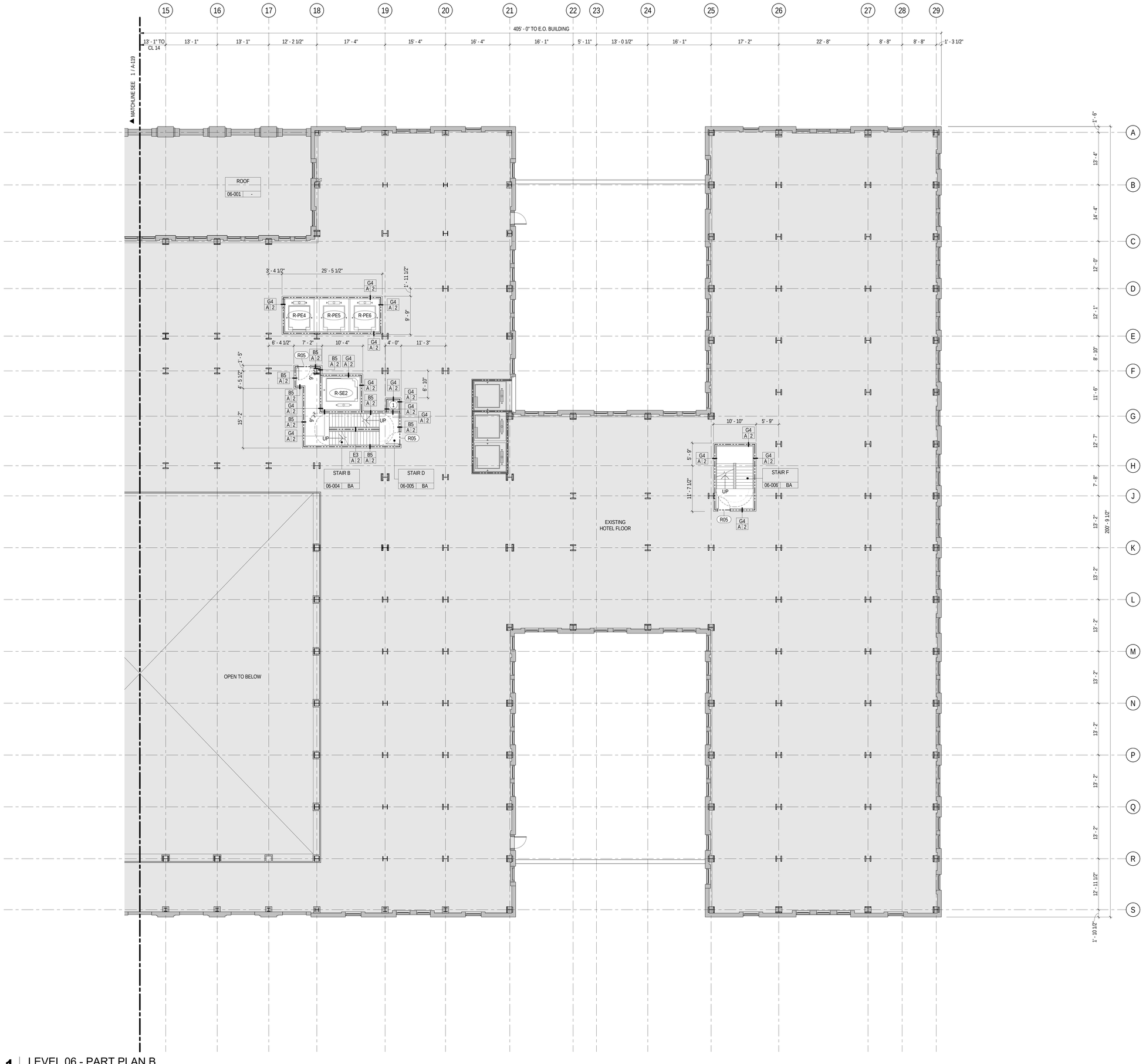

1 LEVEL 06 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
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A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

WALDORF ASTORIA

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Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
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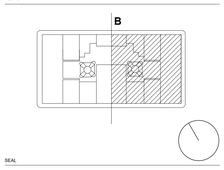
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM HAY
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 6 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-120.00

PAGE NUMBER
39 OF 137

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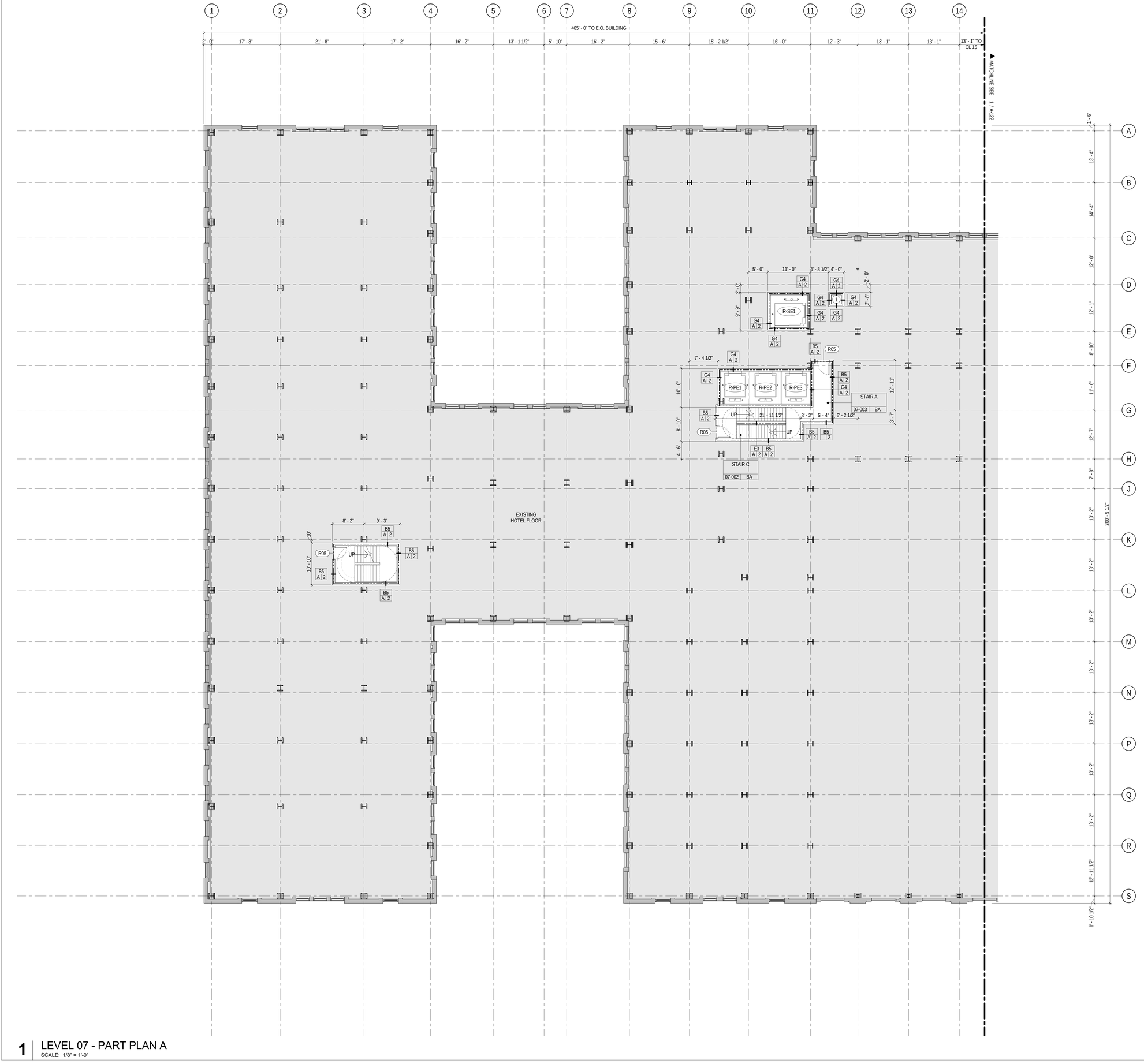

SHEET NOTES

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SHEET	KITCHEN TYPE
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SHEET	BATHROOM TYPE
A-721	A1, A2, A3
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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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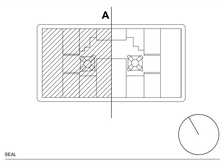
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TIEBEN
No. 023235
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 7 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-121.00

PAGE NUMBER
40 OF 137

1 LEVEL 07 - PART PLAN A
SCALE: 1/8" = 1'-0"

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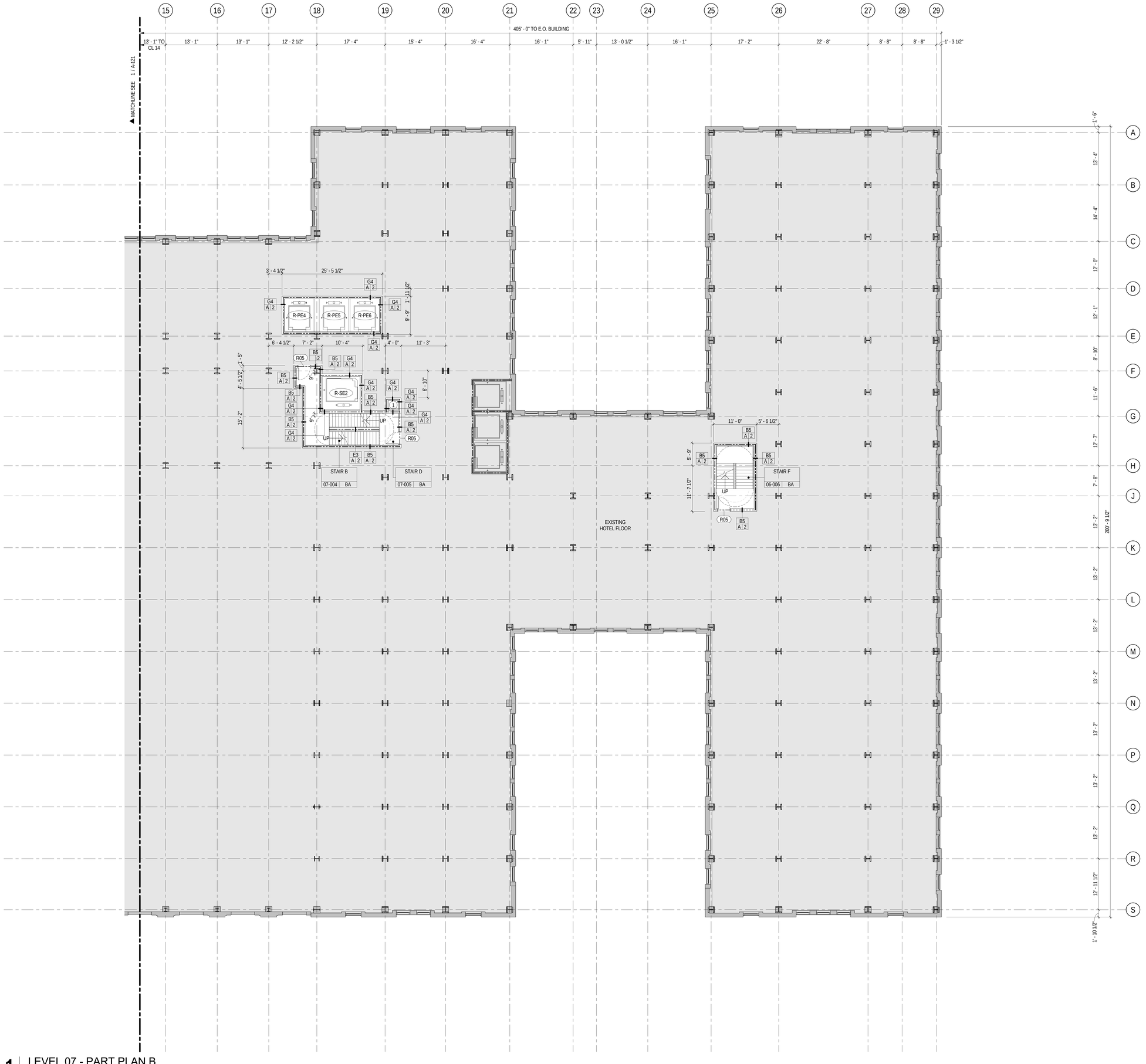

1 LEVEL 07 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
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A-703	K7, K8, K9
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A-705	K13, K14, K15
A-706	K16, K17, K18

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A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
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6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

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2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

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CODE CONSULTING
Code Consultants, Inc.

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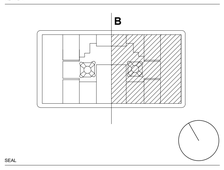
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM HAY
No. 025935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 7 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-122.00

PAGE NUMBER
41 OF 137

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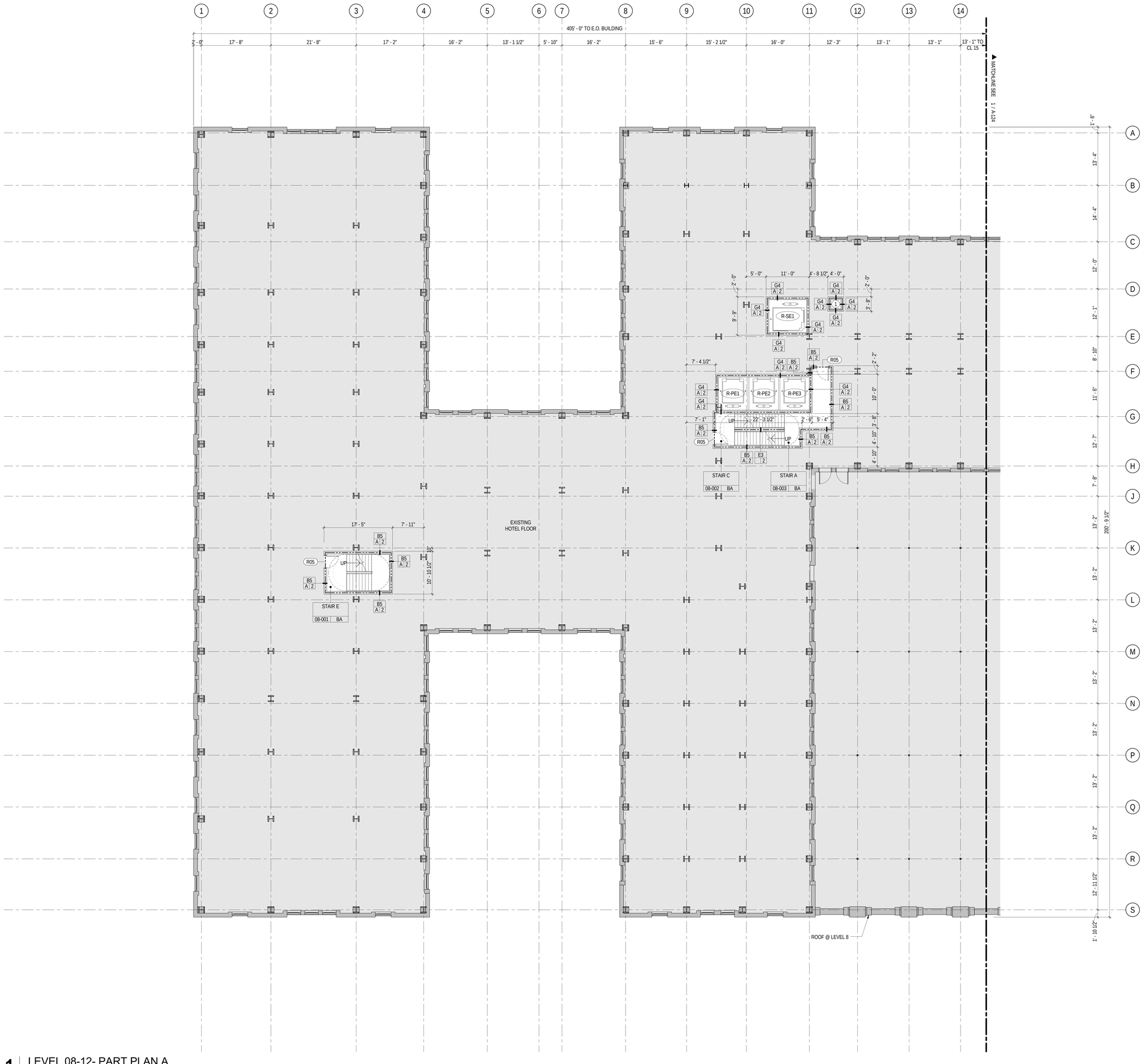
DEPT OF BLDGS 421351245 Job Number
E-597144999 Scan Code



SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- 200 WINDOW TAG

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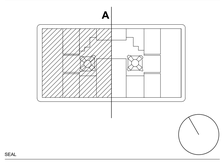

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TIEBEN
No. 023235
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 8-12 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-123.00

PAGE NUMBER
42 OF 137

1 LEVEL 08-12- PART PLAN A
SCALE: 1/8" = 1'-0"

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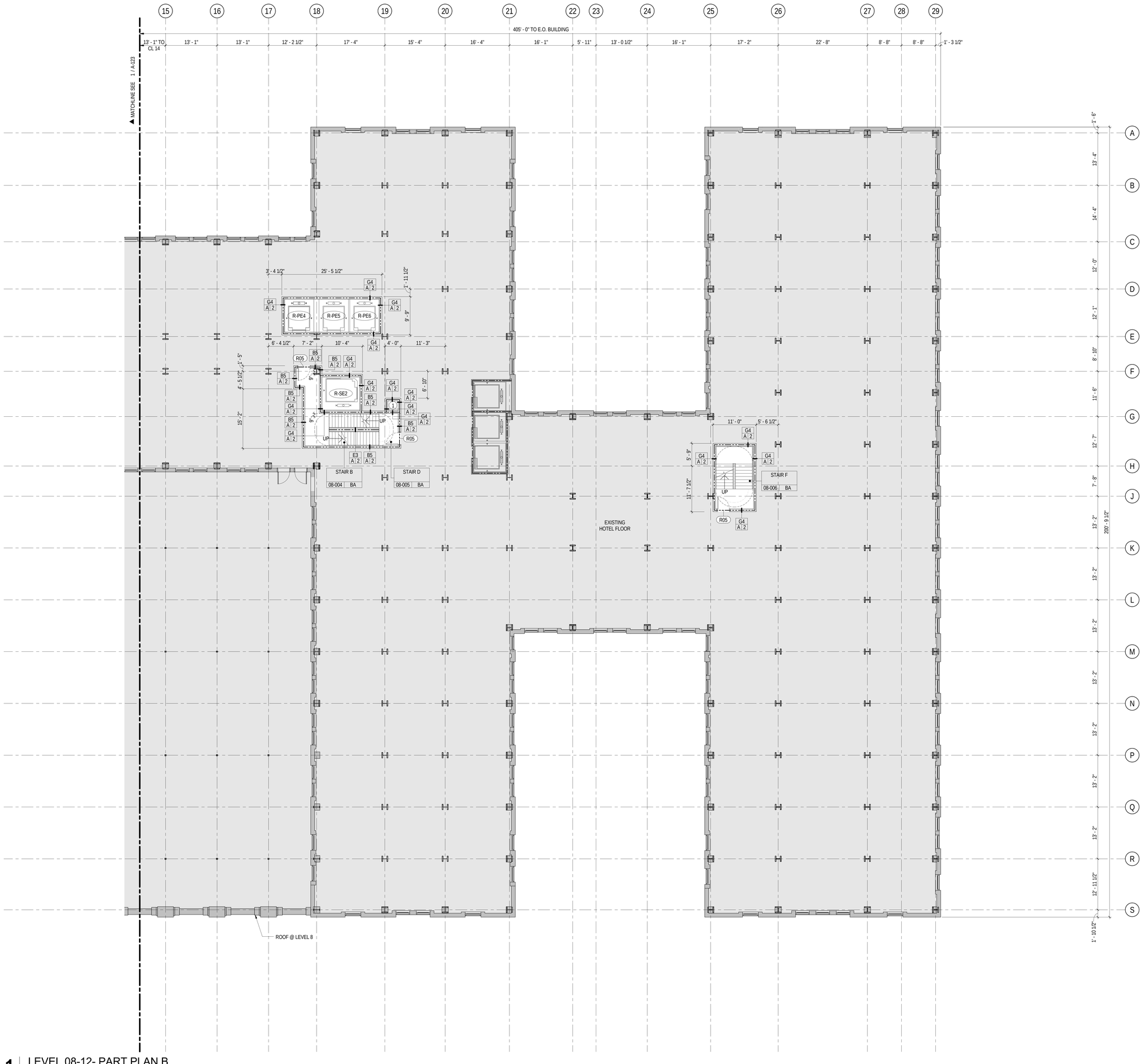

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SHEET	KITCHEN TYPE
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
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A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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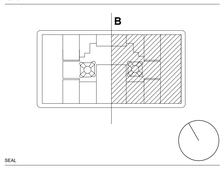
KEYPLAN:



SEAL

REGISTERED ARCHITECT
KENNETH ADAM HAY
No. 025935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 8-12 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-124.00

PAGE NUMBER
43 OF 137

1 LEVEL 08-12- PART PLAN B
SCALE: 1/8" = 1'-0"

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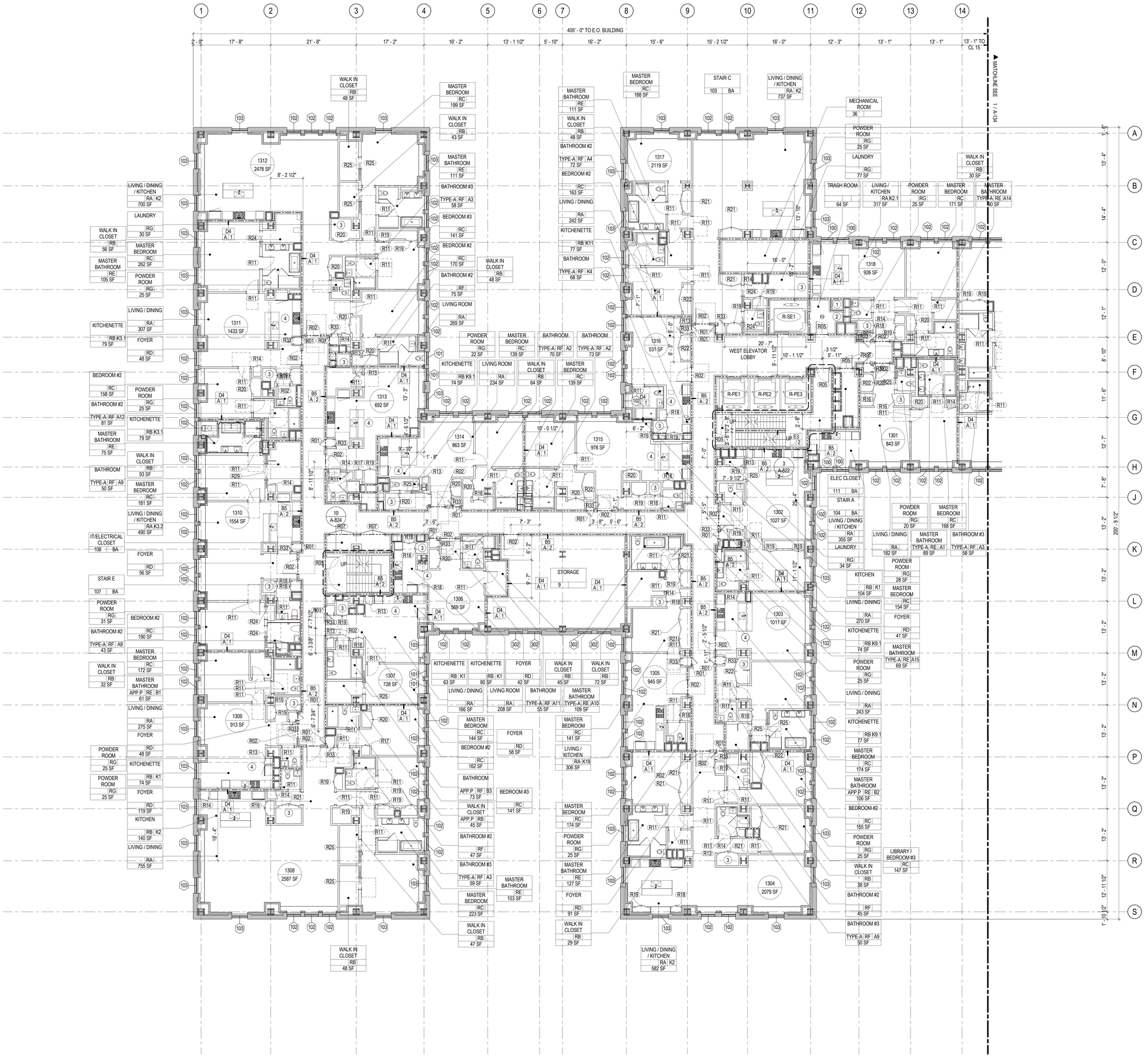

1 LEVEL 13 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
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A-722	A4, A5, A6
A-723	A7, A8, A9
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A-725	A13, A14, A15
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A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

WALDORF ASTORIA

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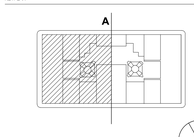
SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT AZMI ZAHED ATKINS No. 023325 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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2	31 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 13 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-133.00

PAGE NUMBER
44 OF 137

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DEPT OF BLDGS 421915745 Job Number
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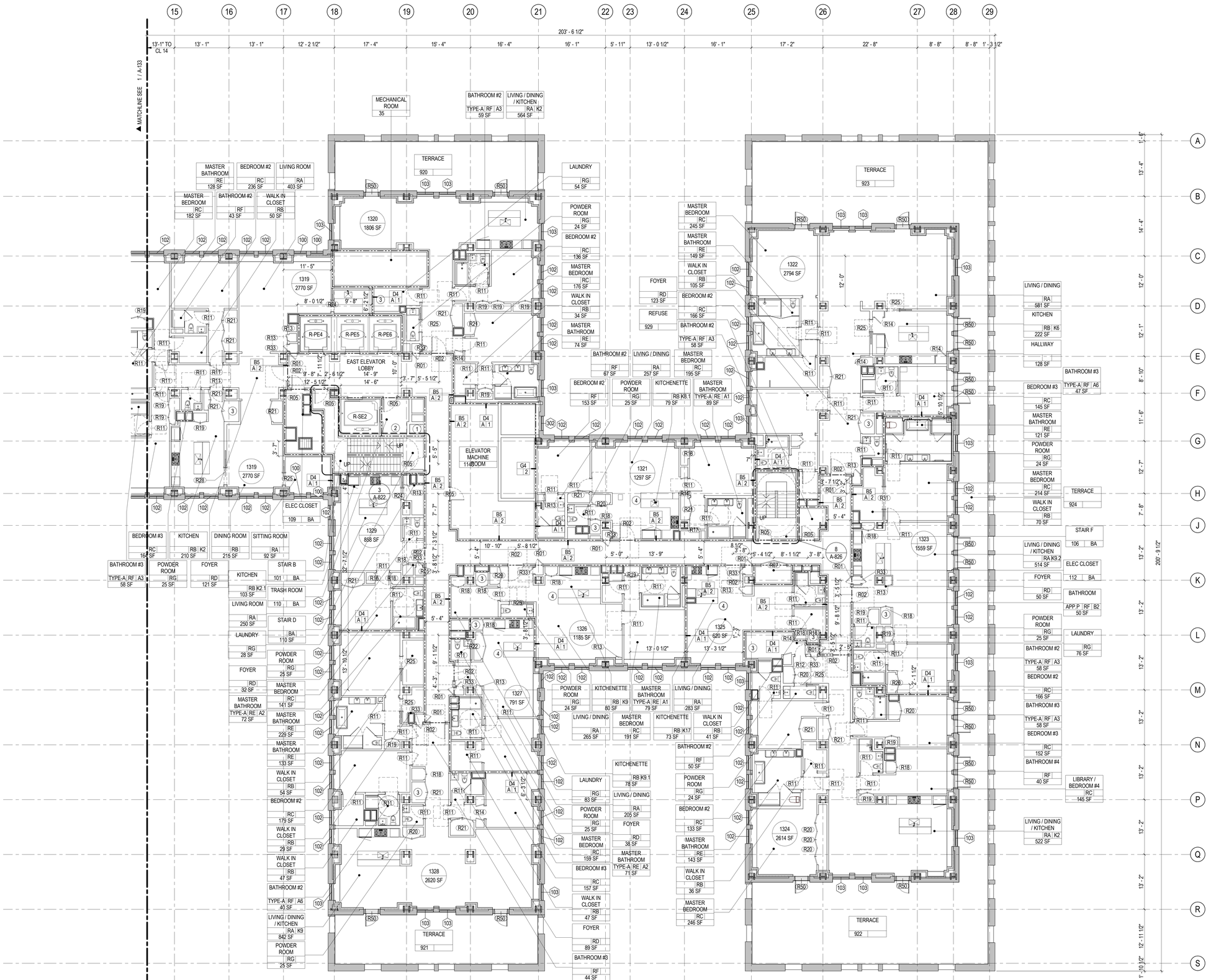

SHEET NOTES

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SHEET	KITCHEN TYPE
A-701	K1, K2, K3
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
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GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

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- 1 HR RATED PARTITION
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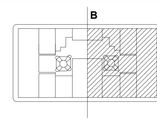
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM YEE
NO. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	26 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	13 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 13 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-134.00

PAGE NUMBER
45 OF 137

1 LEVEL 13 - PART PLAN B
SCALE: 1/8" = 1'-0"

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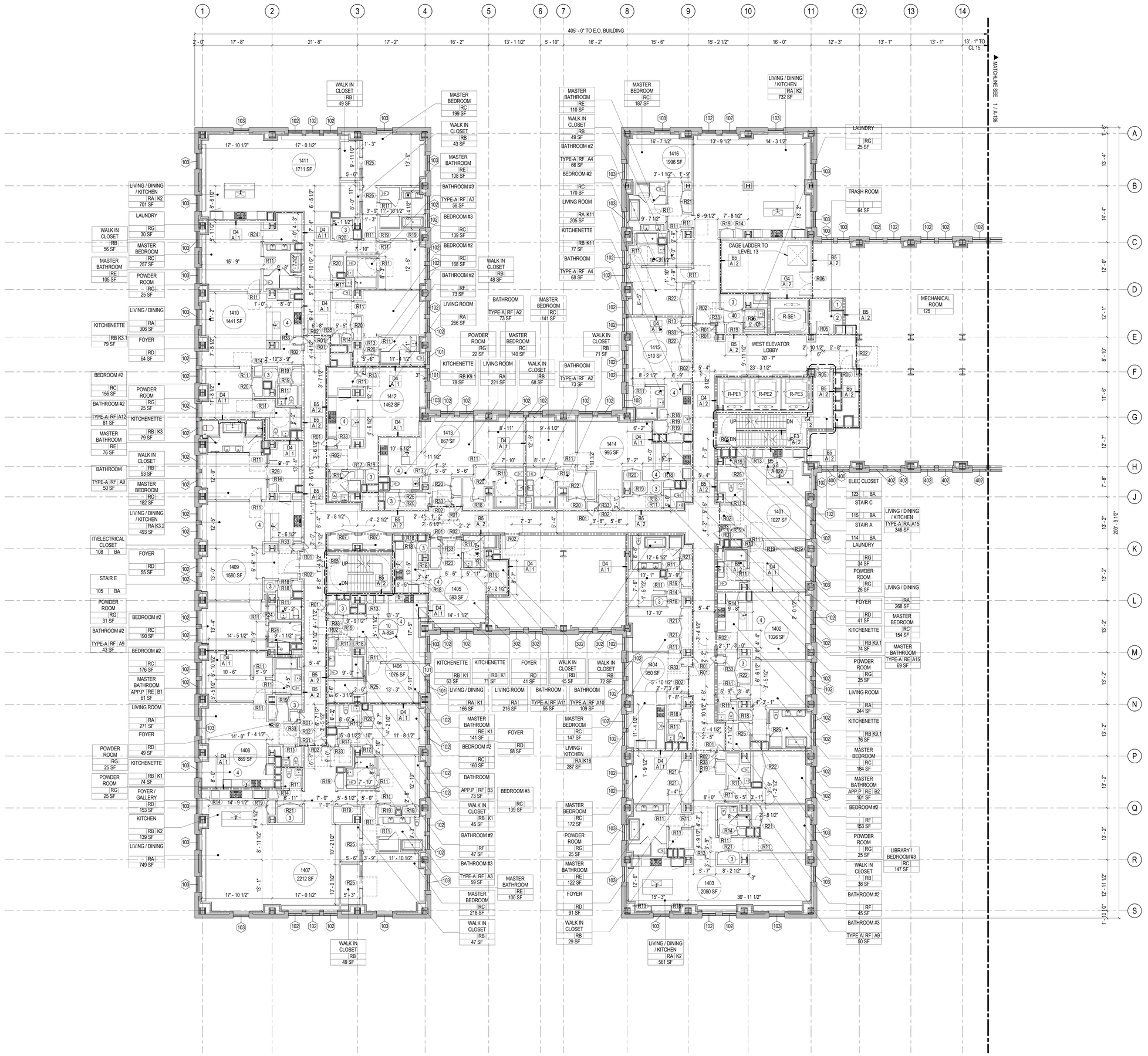

1 | LEVEL 14 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

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DRAWING TITLE
LEVEL 14 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-135.00

PAGE NUMBER
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DEPT OF BLDGS 421351245 Job Number
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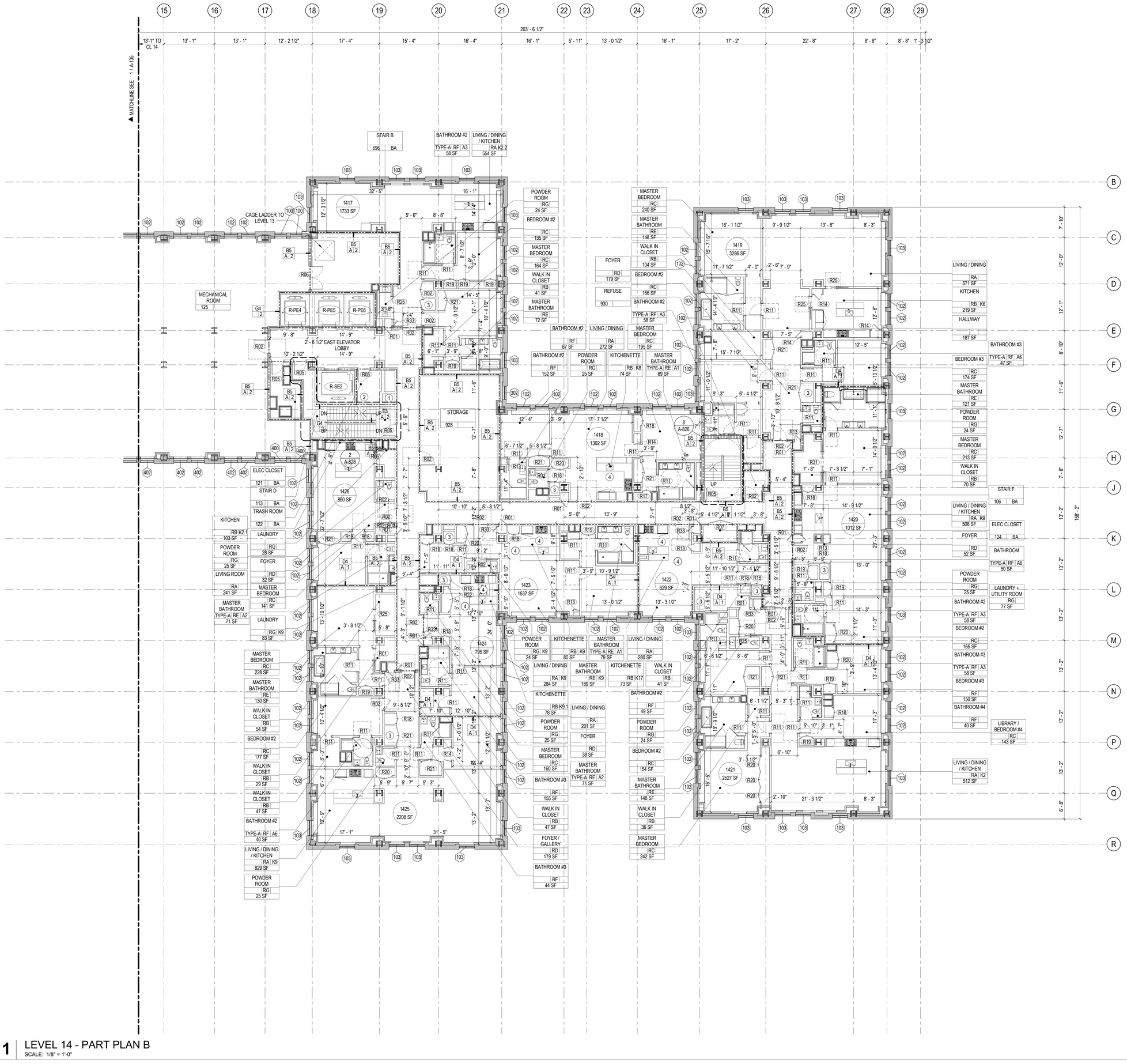

1 LEVEL 14 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

1. ALL SLAB PENETRATIONS FOR PIPES, CONDUITS, ETC (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A 3 HOUR RATED SYSTEM. ALL MULTI PIPE PENETRATIONS TO HAVE A MULTI PIPE SYSTEM.
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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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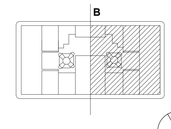
Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



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LEVEL 14 - PART PLAN B

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PAGE NUMBER
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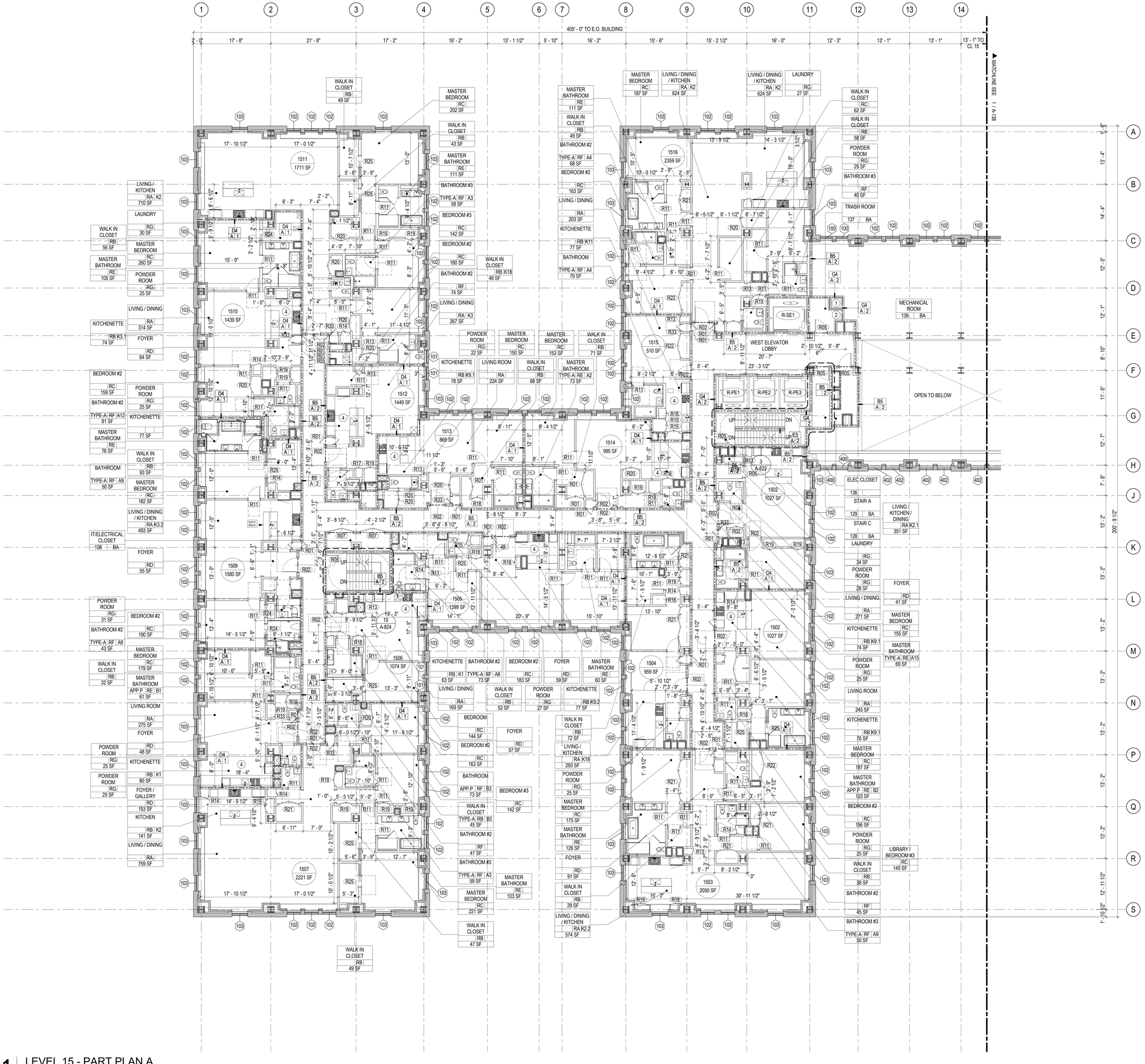

1 LEVEL 15 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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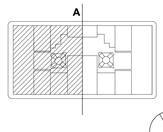
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:



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LEVEL 15 - PART PLAN A

B-SCAN - DRAWING NUMBER
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PAGE NUMBER
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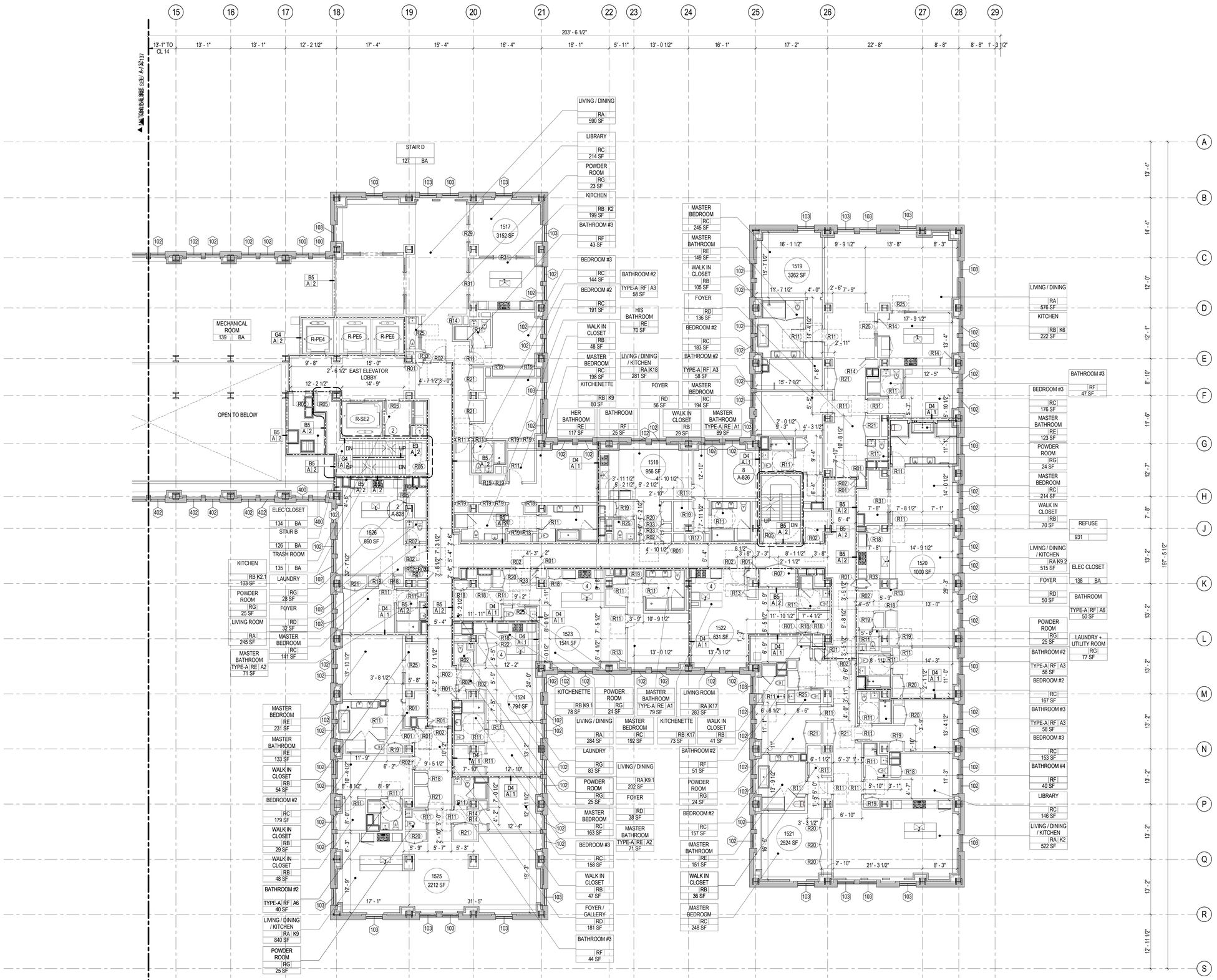

1 LEVEL 15 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
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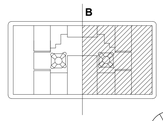
KEYPLAN



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REGISTERED ARCHITECT
KENNETH ADAM SIBBS
No. 023335
STATE OF NEW YORK

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DRAWING TITLE
LEVEL 15 - PART PLAN B

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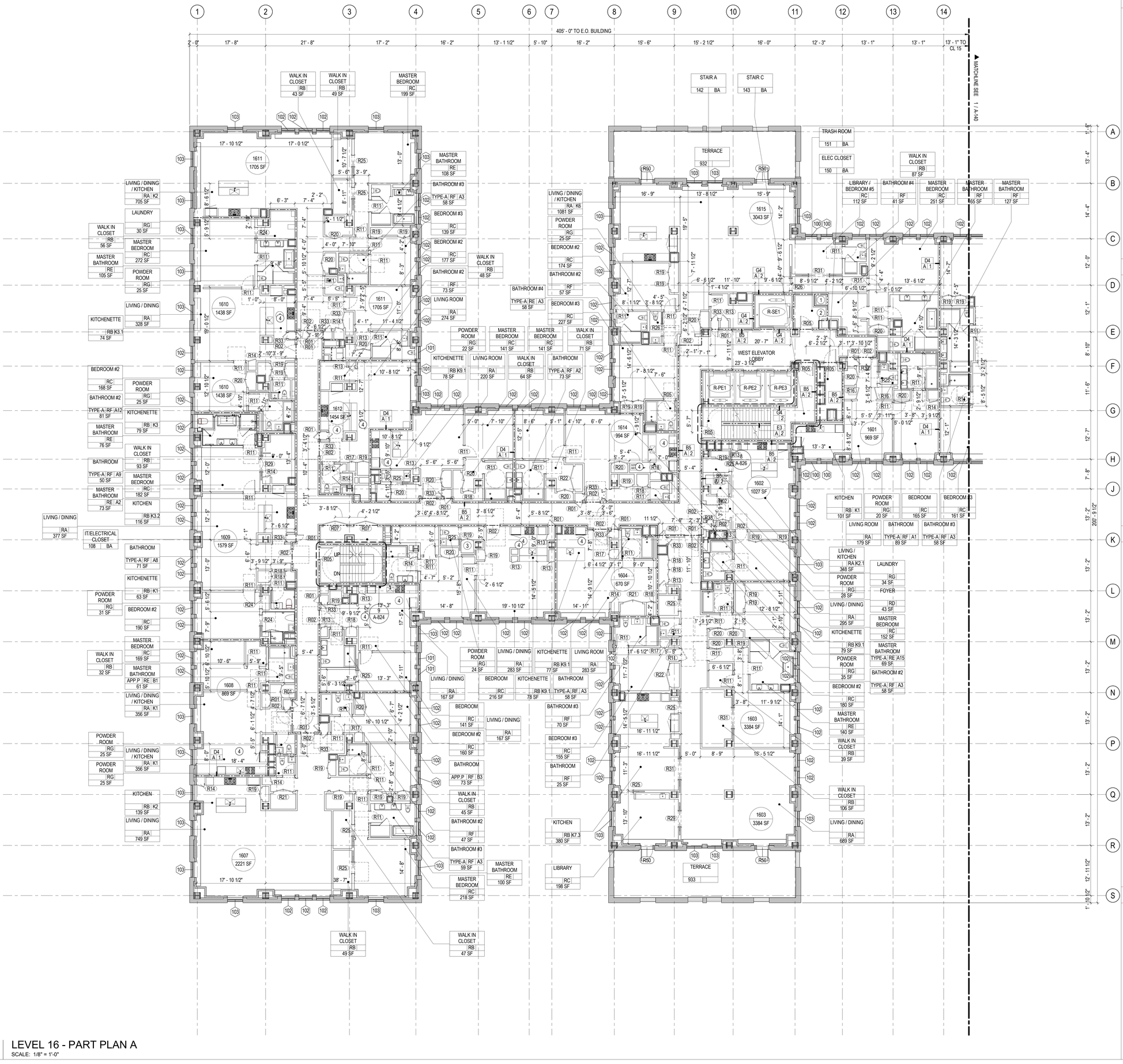

1 LEVEL 16 - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
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8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

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REGISTERED ARCHITECT KENNETH ADAM ATKINS LIC. NO. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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LEVEL 16 - PART PLAN A

B-SCAN - DRAWING NUMBER
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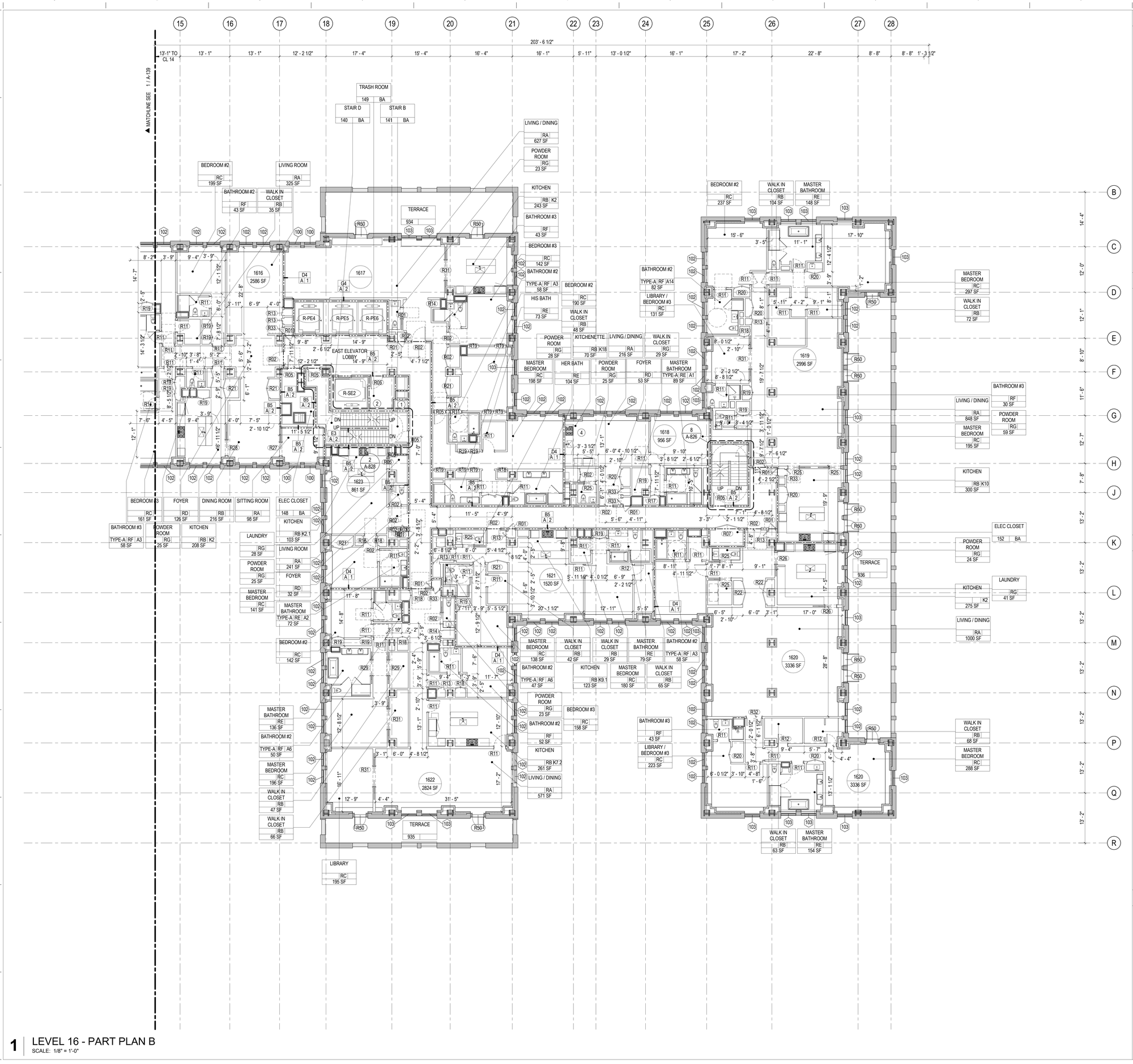

1 LEVEL 16 - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
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A-725	A13, A14, A15
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A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
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4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
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SMOKE RATING
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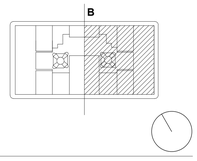
KEYPLAN



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B-SCAN - DRAWING NUMBER
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PAGE NUMBER
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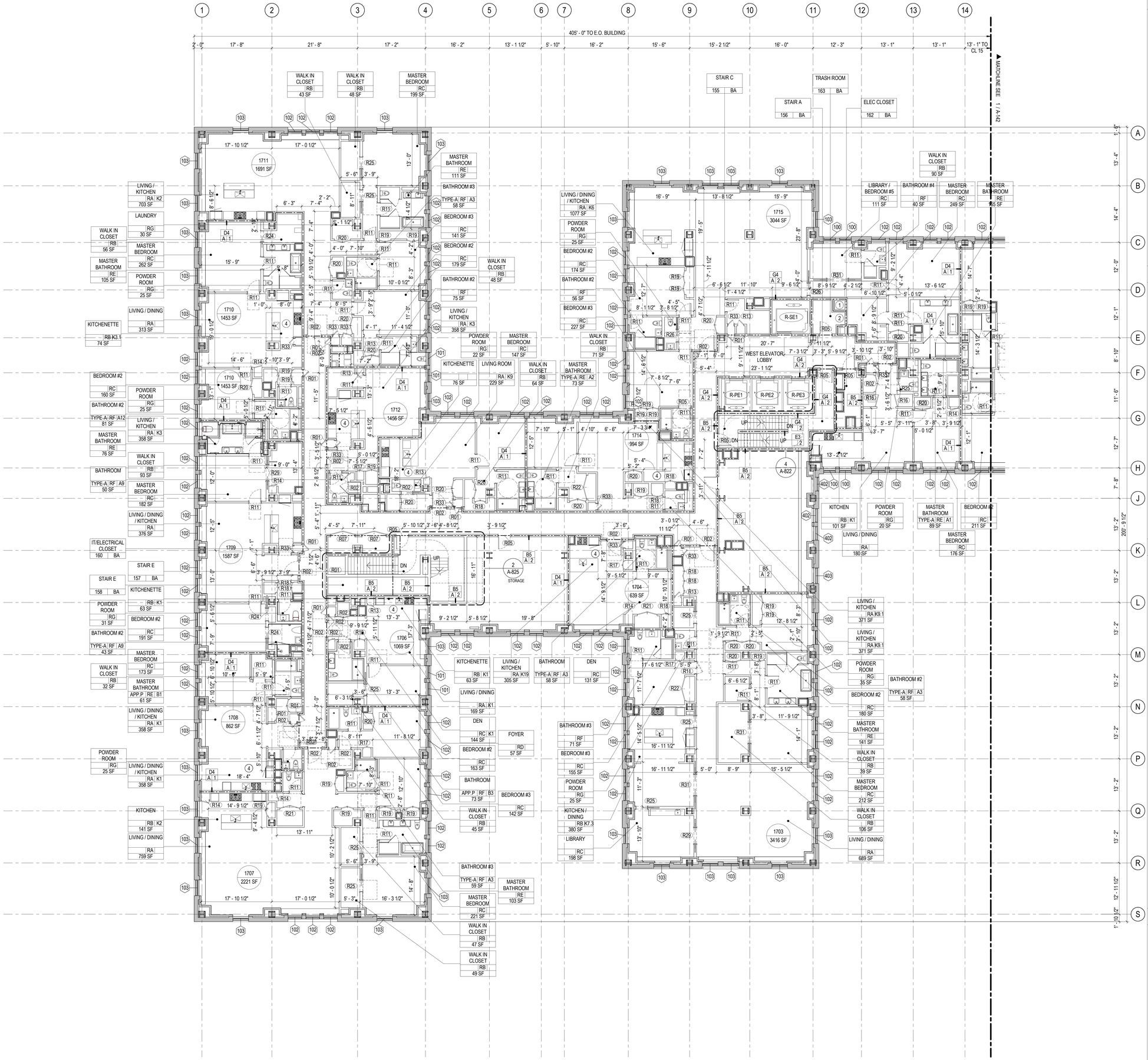

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

1 LEVEL 17 - PART PLAN A
SCALE: 1/8" = 1'-0"

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Under Directive 3 of 1975
Date: 07/14/2017
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KEYPLAN

SEAL
REGISTERED ARCHITECT AZMI ZAHED ATKINS No. 023235 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 17 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-141.00

PAGE NUMBER
52 OF 137

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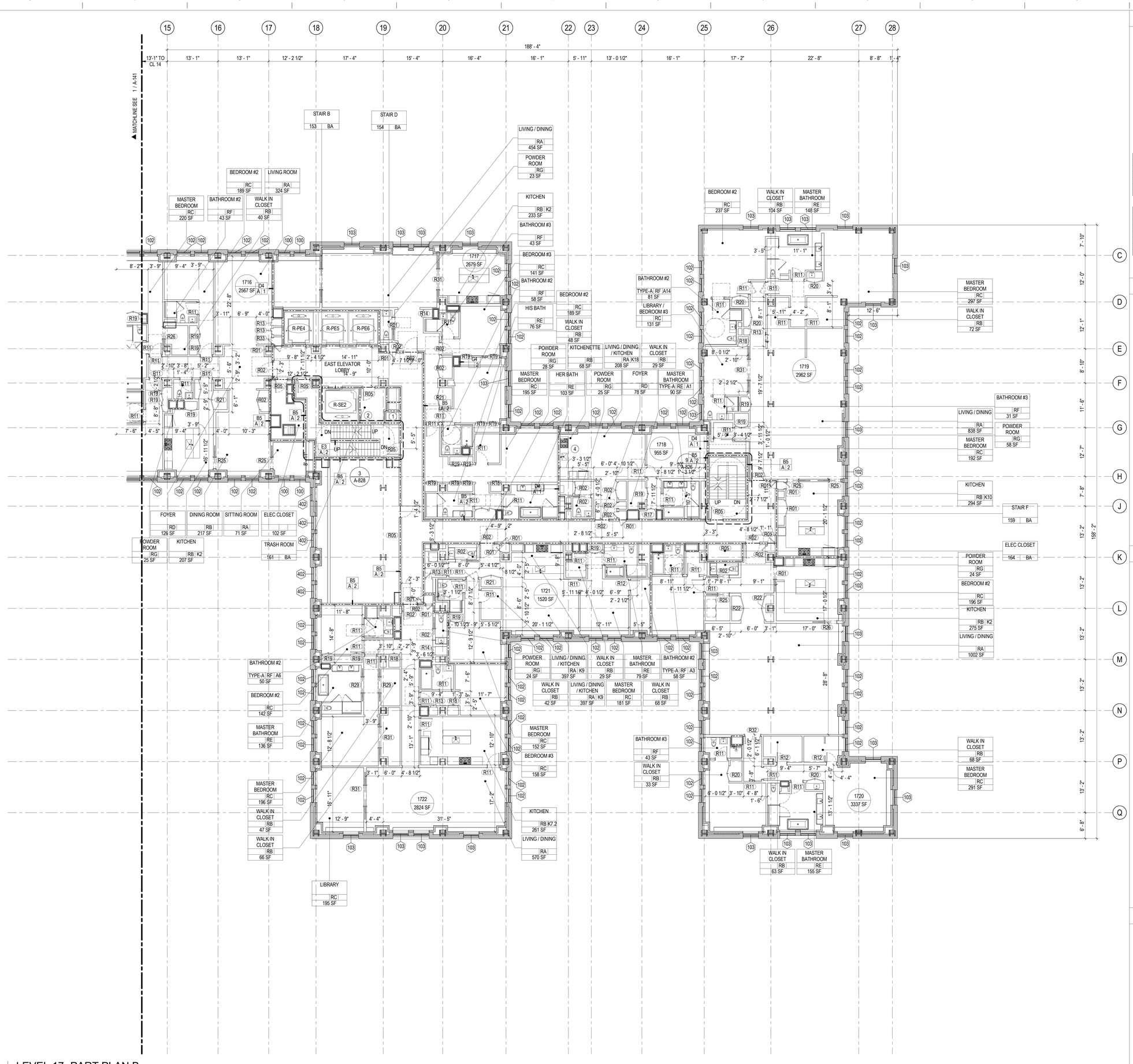
E1571503003 Scan Code



1 LEVEL 17- PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
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4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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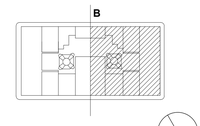
SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
Buildings
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM VAN
No. 023935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 17 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-142.00

PAGE NUMBER
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DEPT OF BLDGS 421351245 Job Number
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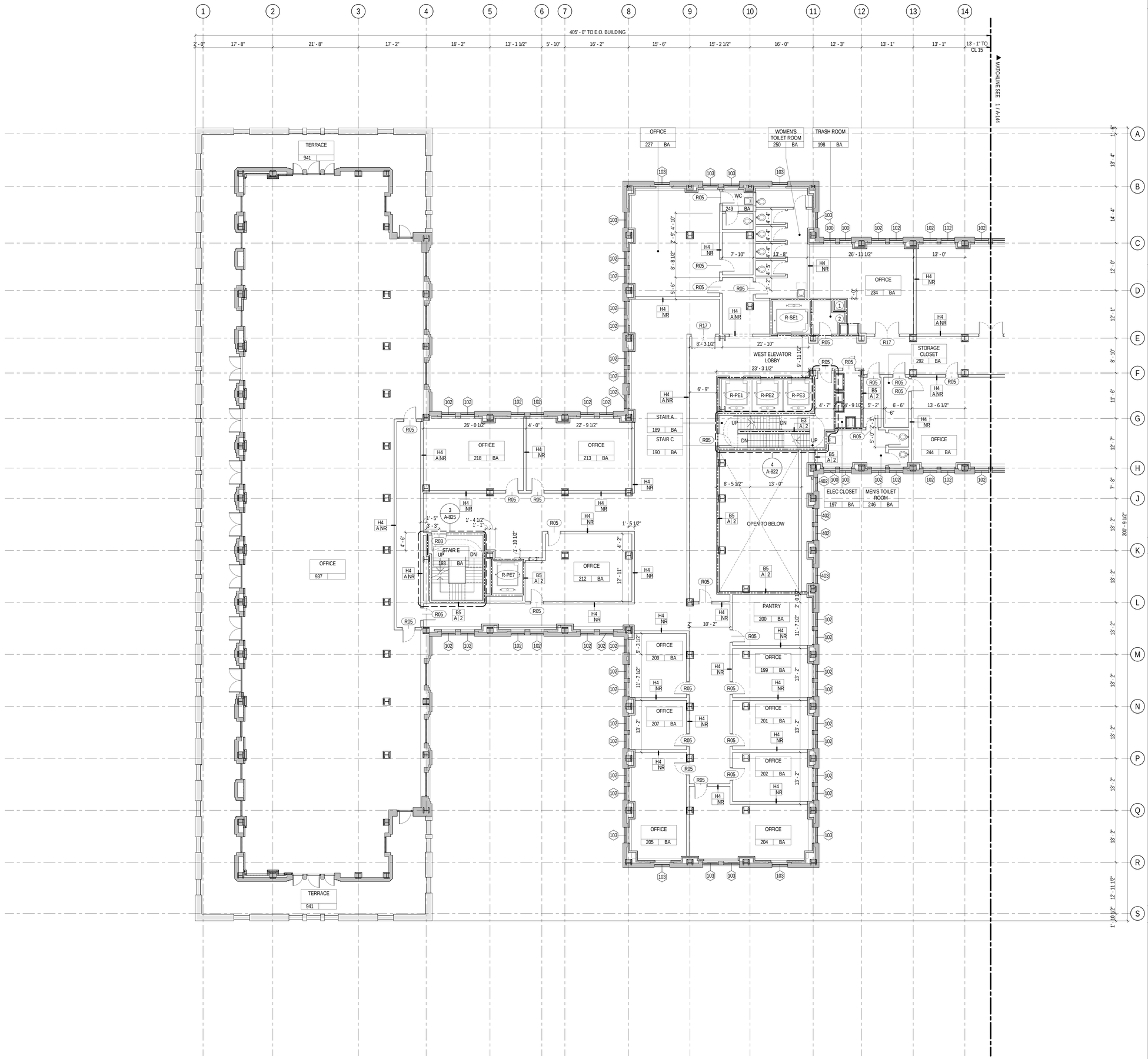

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SHEET	KITCHEN TYPE
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
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2 HR RATED PARTITION
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4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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Date: 07/14/2017
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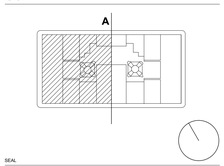

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DRAWING TITLE
LEVEL 18 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-143.00

PAGE NUMBER
54 OF 137

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1 LEVEL 18 - PART PLAN A
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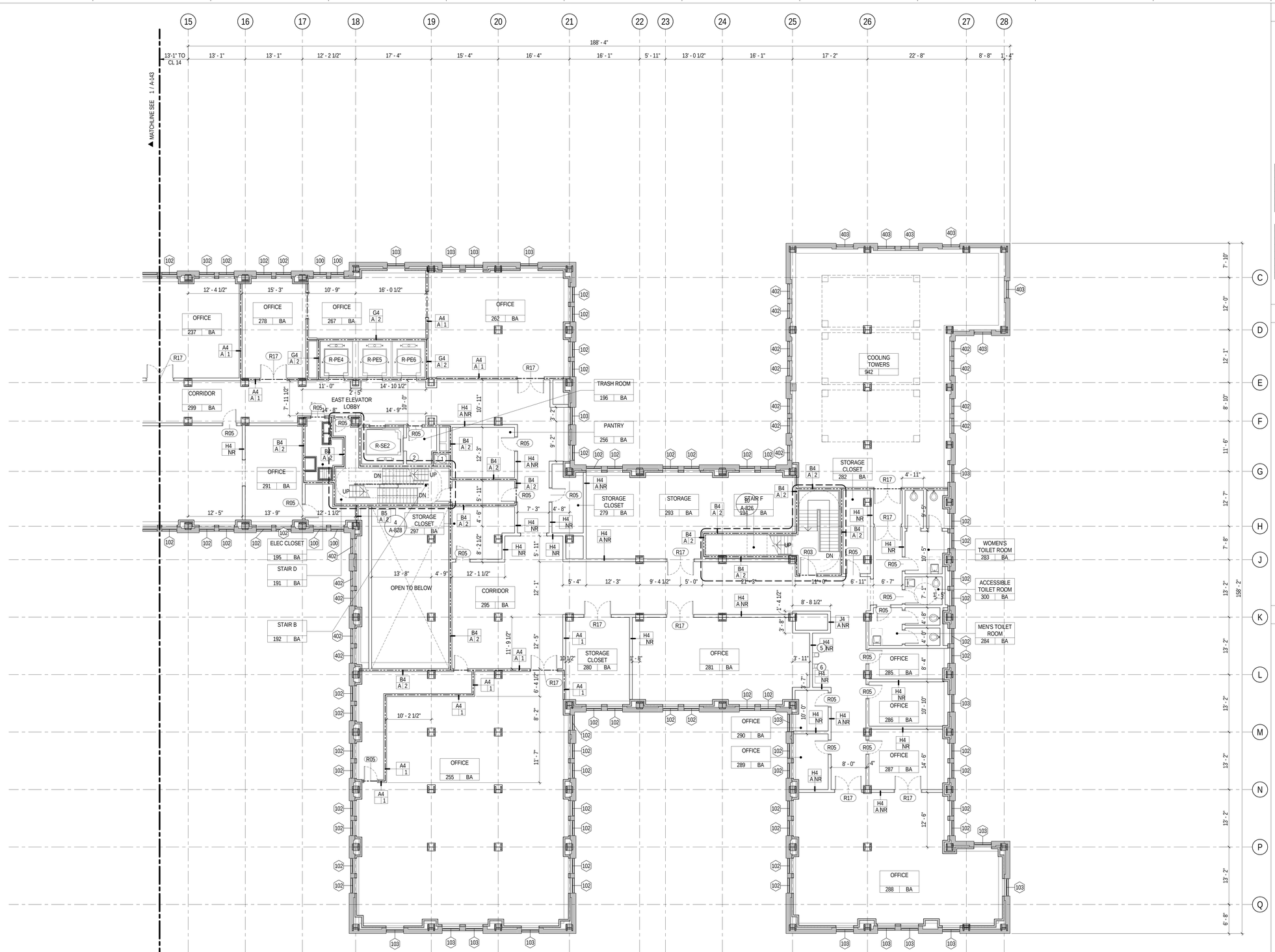

1 LEVEL 18- PART PLAN B
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SHEET NOTES

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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
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A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

WALDORF ASTORIA

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APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
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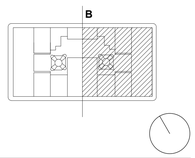

SEAL

REGISTERED ARCHITECT KENNETH ADAM HAN LIC. NO. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 18 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-144.00

PAGE NUMBER
55 OF 137

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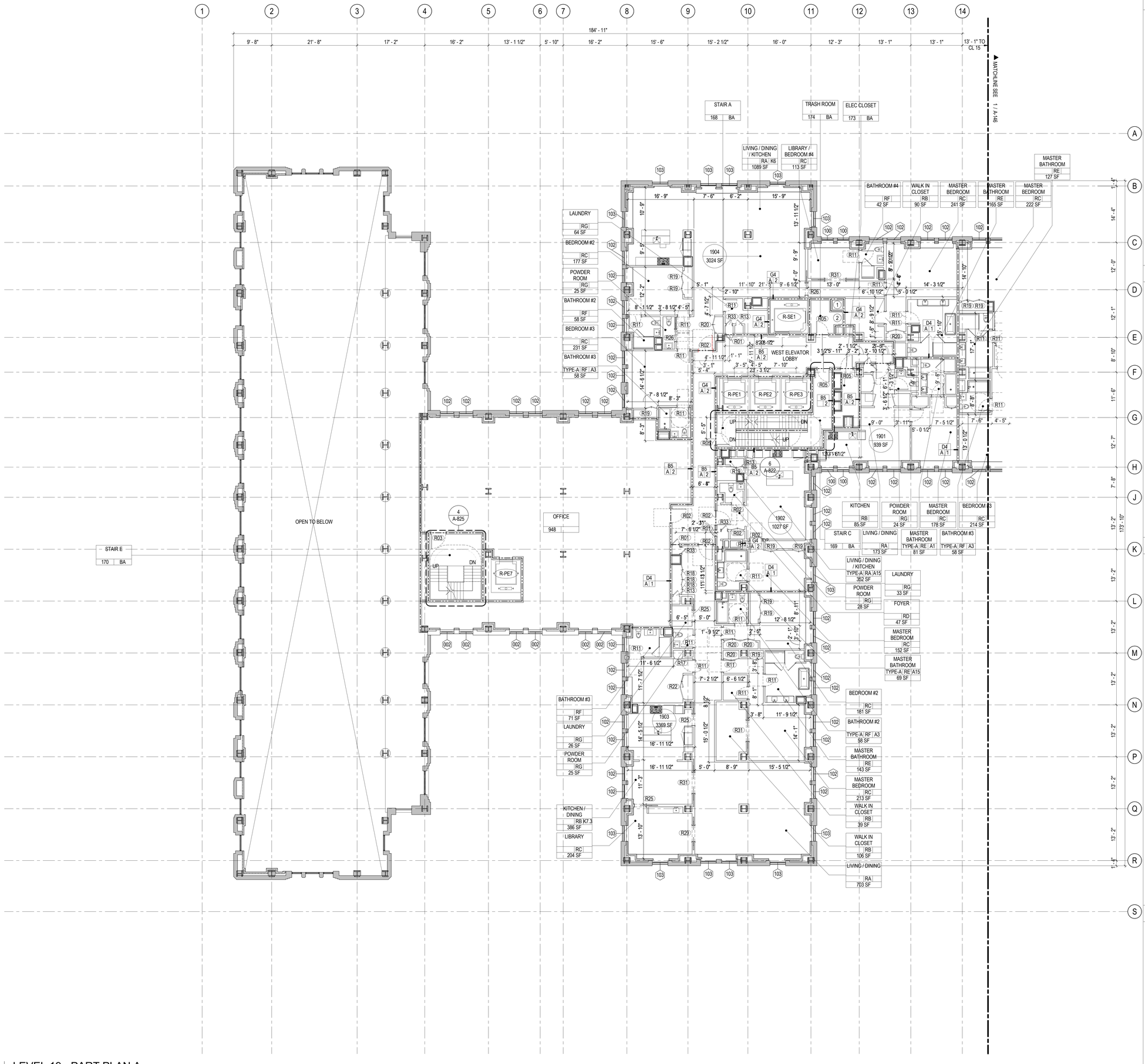

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SHEET	KITCHEN TYPE
A-701	K1, K2, K3
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
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A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
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SMOKE RATING
200 WINDOW TAG

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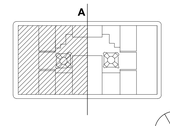
KEYPLAN



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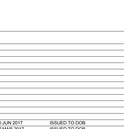

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DRAWING TITLE

LEVEL 19 - PART PLAN A

B-SCAN - DRAWING NUMBER

A-145.00

PAGE NUMBER

56 OF 137

1 LEVEL 19 - PART PLAN A
SCALE: 1/8" = 1'-0"

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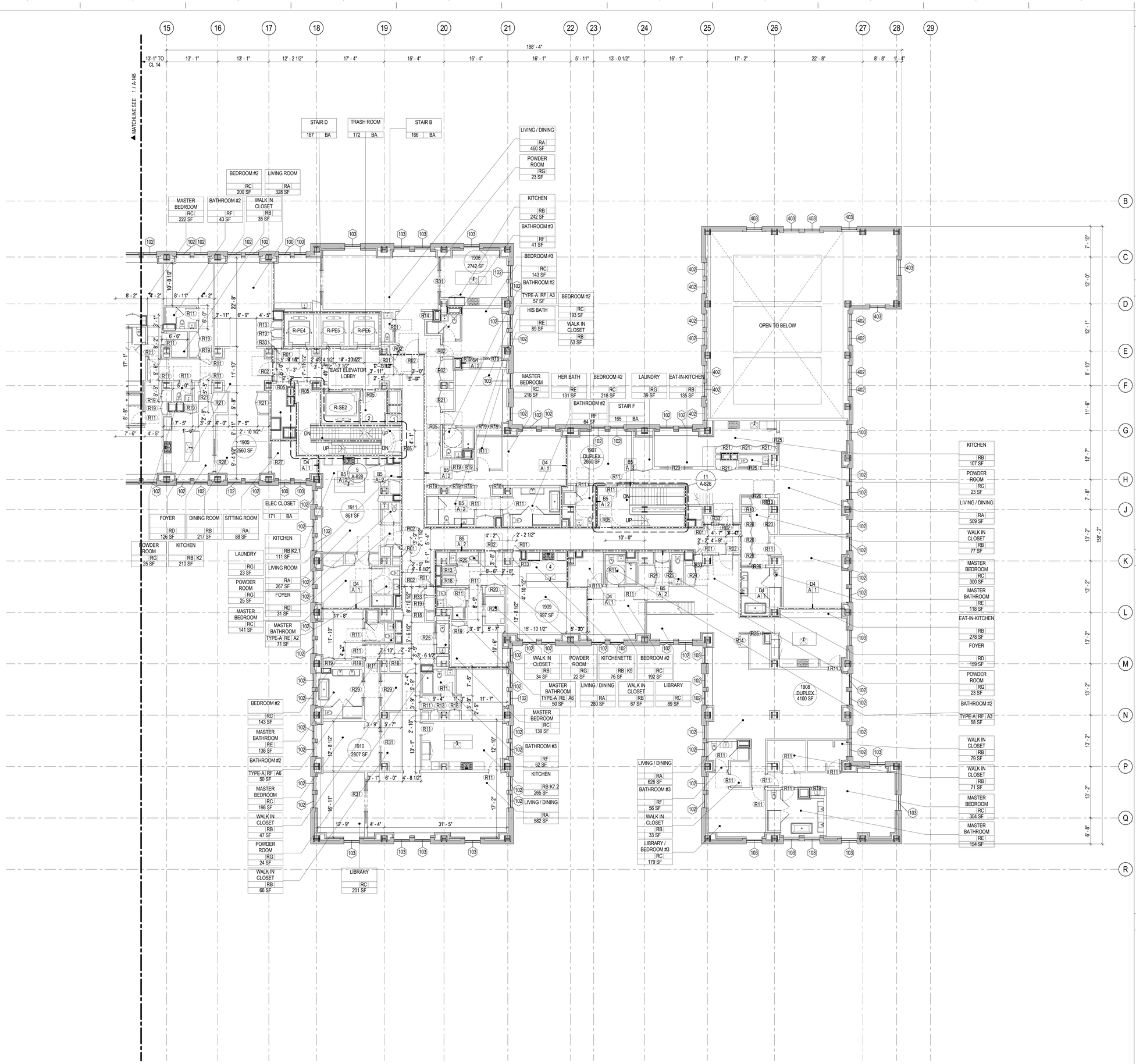

1 LEVEL 19- PART PLAN B
SCALE: 1/8" = 1'-0"

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A-704	K10, K11, K12
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SHEET	BATHROOM TYPE
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A-722	A4, A5, A6
A-723	A7, A8, A9
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A-725	A13, A14, A15
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A-727	B3

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APPROVED
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Date: 07/14/2017
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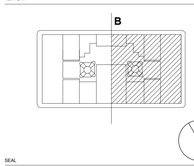
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM CREE
No. 027325
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	29 JUN 2017	ISSUED TO DOB
2	21 APR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 19 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-146.00

PAGE NUMBER
57 OF 137

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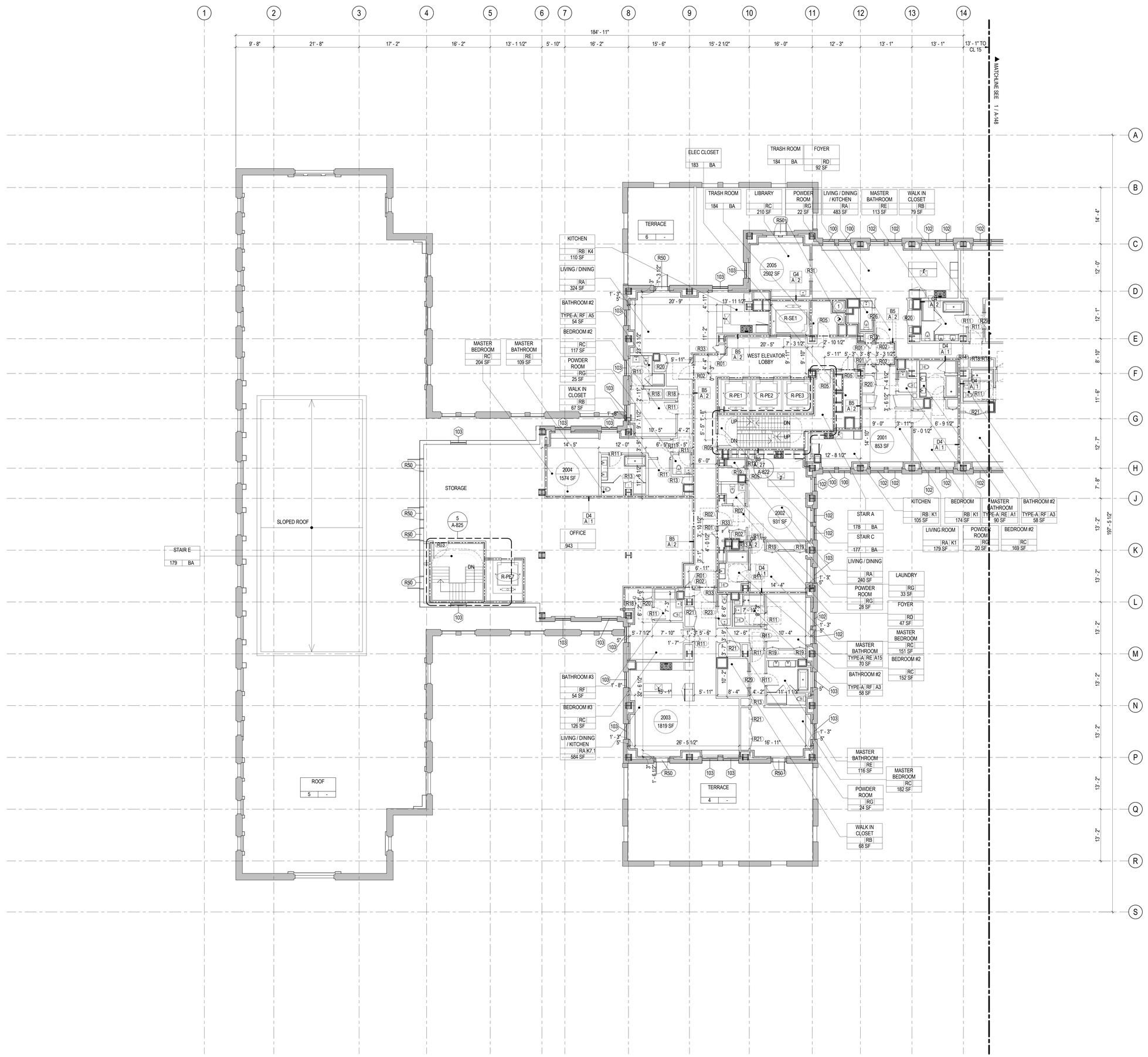
DEPT OF BLDGS 421351245 Job Number
E3408067/4765 Scan Code



SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- (200) WINDOW TAG

WALDORF ASTORIA

301 Park Ave,
New York, NY 10022

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ANBANG GROUP 安邦集团

ARCHITECT

SOM

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LOGISTICS CONSULTANT

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TRAFFIC, PARKING, AND LOADING

Philip Habib & Associates

EXTERIOR WALL CONSULTANT

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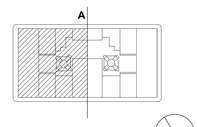
Azmi Zahed-Atkins, RA
No. 037975
Buildings
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM KRIM
No. 023325
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 20 - PART PLAN A

B-SCAN - DRAWING NUMBER

A-147.00

PAGE NUMBER

58 OF 137

1 LEVEL 20 - PART PLAN A
SCALE: 1/8" = 1'-0"

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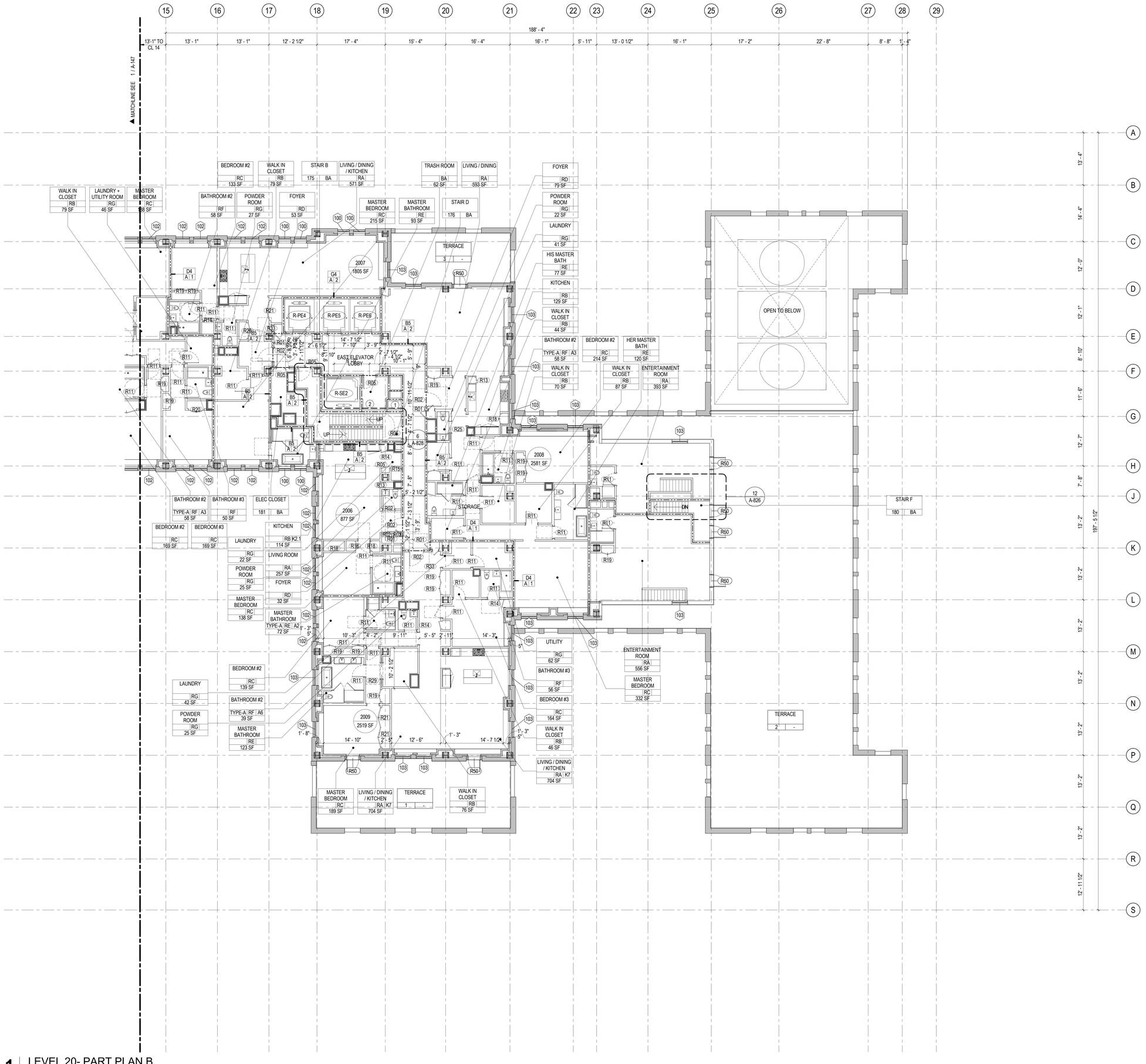
DEPT OF BLDGS 121315245 Job Number
B2015073950N Scan Code



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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
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A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

GENERAL NOTES

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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EXTERIOR WALL CONSULTANT
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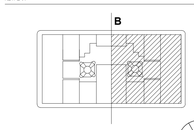
SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM ORR
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 20 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-148.00

PAGE NUMBER
59 OF 137

1 LEVEL 20- PART PLAN B
SCALE: 1/8" = 1'-0"

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DEPT OF BLDGS 321515245 Job Number
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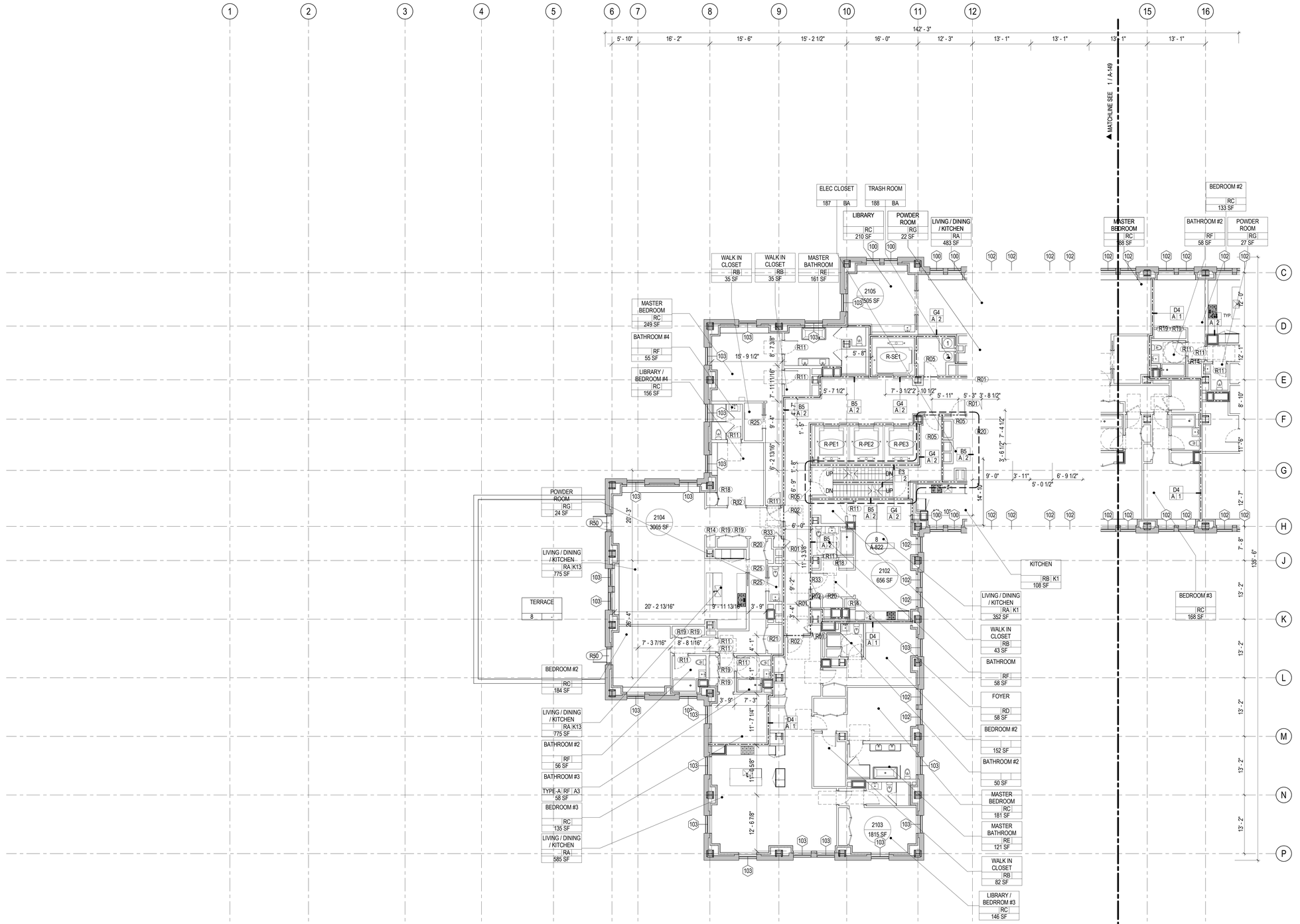

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2. REFER TO G-003 FOR MOUNTING HEIGHTS
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SHEET	KITCHEN TYPE
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A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
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A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

GENERAL NOTES

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

1 LEVEL 21 - PART PLAN A
SCALE: 1/8" = 1'-0"

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EXTERIOR WALL CONSULTANT
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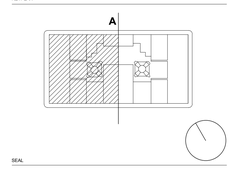
SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 21 - PART PLAN A

B-SCAN - DRAWING NUMBER
A-149.00

PAGE NUMBER
60 OF 137

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DEPT OF BLDGS 121191245 Job Number
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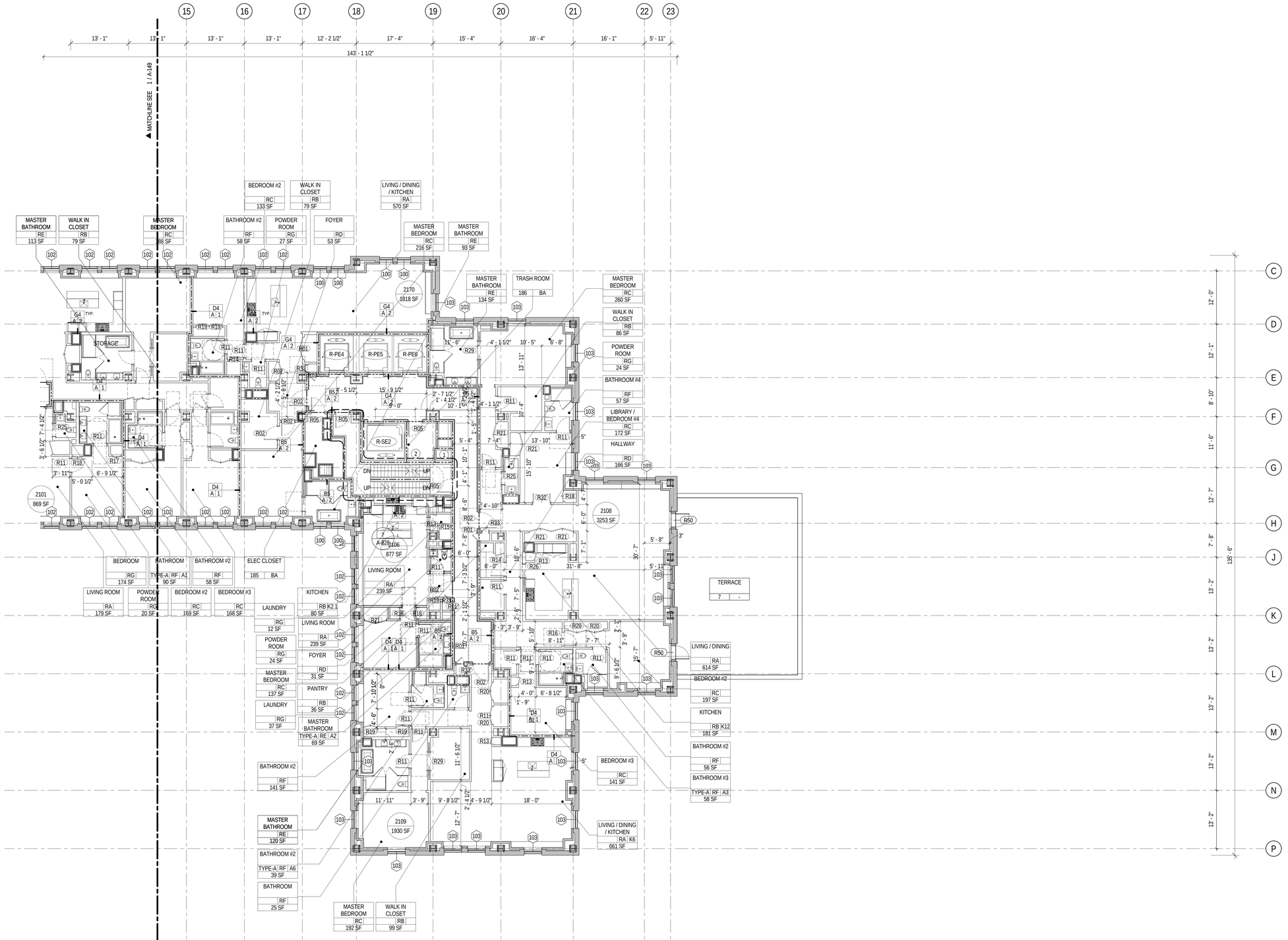

1 | LEVEL 21- PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
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6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
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8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTURAL MEMBERSTO BE FIRE-PROOPED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- 200 WINDOW TAG

WALDORF ASTORIA

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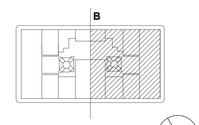
EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 023315
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 21 - PART PLAN B

B-SCAN - DRAWING NUMBER
A-150.00

PAGE NUMBER
61 OF 137

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DEPT OF BLDGS 421913245 Job Number
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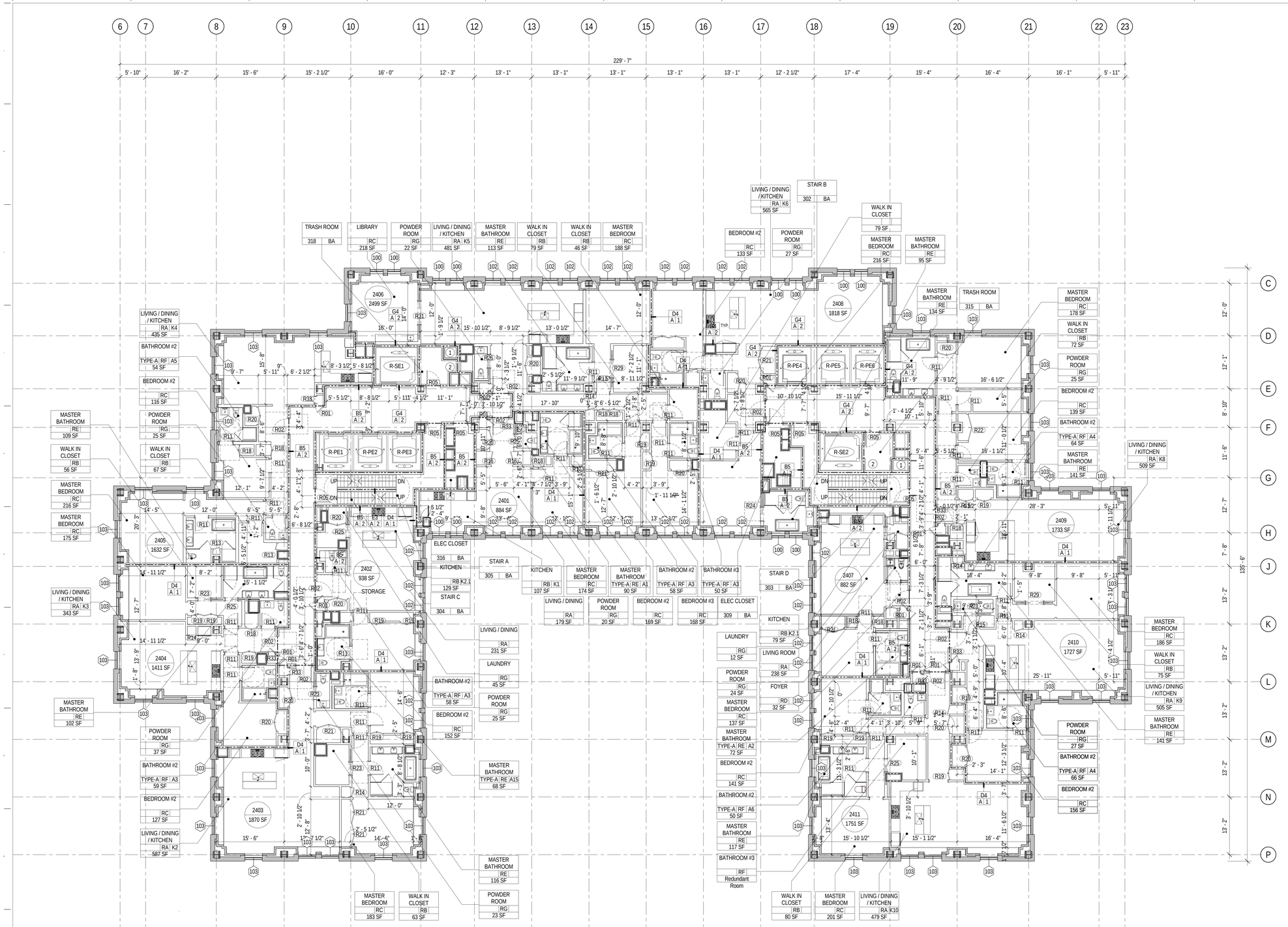

1 LEVEL 22 - 30 FLOOR PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
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KEYED NOTES

1 TRASH CHUTE
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6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
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4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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SECURITY CONSULTANT
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Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL
REGISTERED ARCHITECT KENNETH ADAM HAY No. 023383 STATE OF NEW YORK

NO:	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 22 - 30 FLOOR PLAN

B-SCAN - DRAWING NUMBER
A-151.00

PAGE NUMBER
62 OF 137

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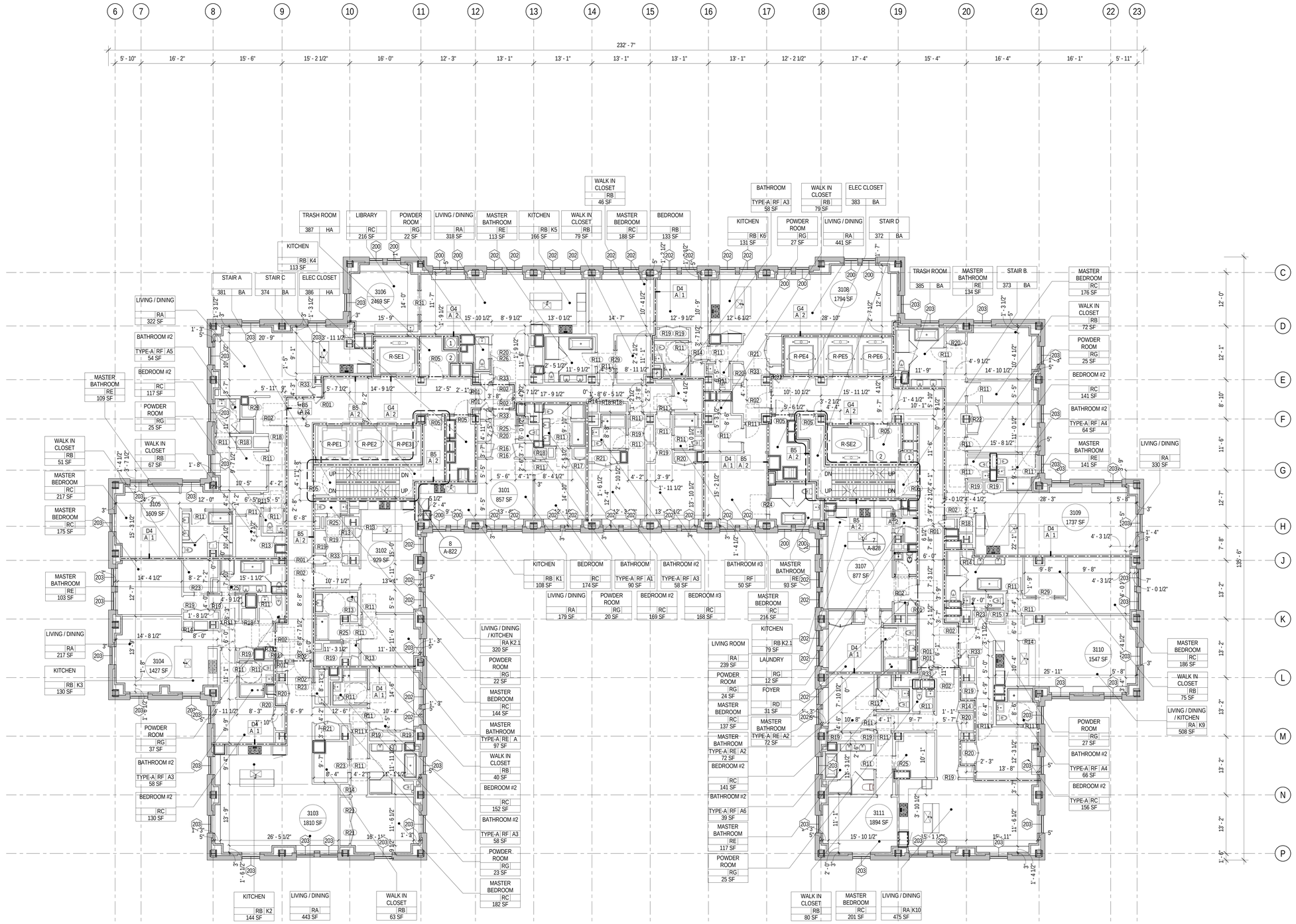
DEPT OF BLDGS 121351245 Job Number

B3040500180 Scan Code



1 LEVEL 31
SCALE: 1/8" = 1'-0"

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A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

1. ALL SLAB PENETRATIONS FOR PIPES, CONDUITS, ETC (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A 3 HOUR RATED SYSTEM. ALL MULTI PIPE PENETRATIONS TO HAVE A MULTI PIPE SYSTEM.
2. ALL PENETRATIONS THROUGH EXISTING AND NEW RATED WALL ASSEMBLIES TO HAVE A FIRESTOP ASSEMBLY SYSTEM TO MATCH THE RATING OF THE WALL.
3. SHADED AREAS ARE NOT IN CONTRACT (N.I.C.). REFER TO ALL DISCIPLINES FOR NIC HATCH RELATIVE TO EACH DISCIPLINES SCOPE OF WORK.
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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

WALDORF ASTORIA

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Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL
REGISTERED ARCHITECT
KENNETH ADAM ATKINS
No. 023348
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 31 FLOOR PLAN

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63 OF 137

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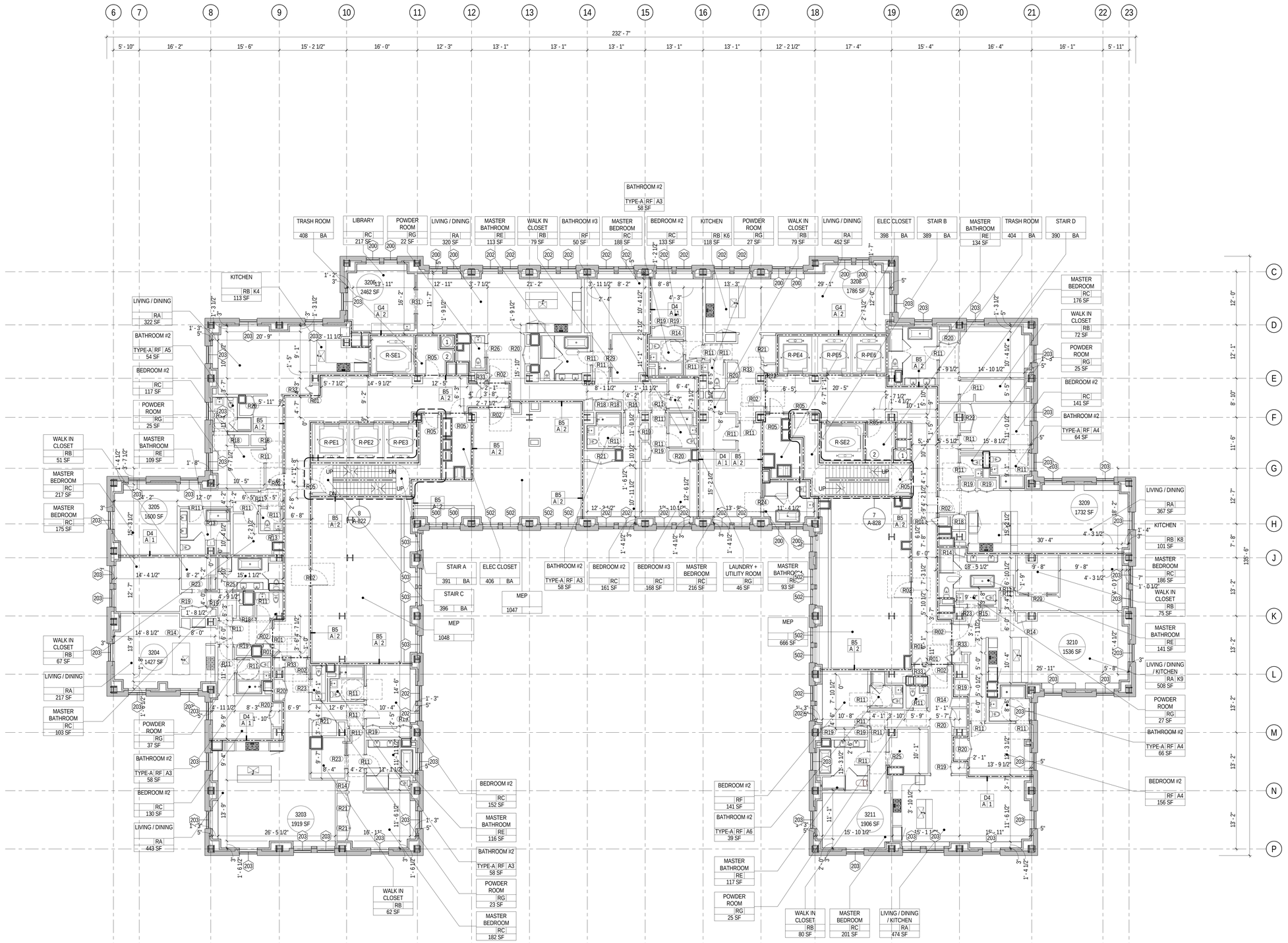

1 LEVEL 32 FLOOR PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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5. ALL STRUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- 200 WINDOW TAG

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VERTICAL TRANSPORTATION
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TRAFFIC, PARKING, AND LOADING
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EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT KENNETH ADAM TIBBS No. 025348 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 32 FLOOR PLAN

B-SCAN - DRAWING NUMBER
A-161.00

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64 OF 137

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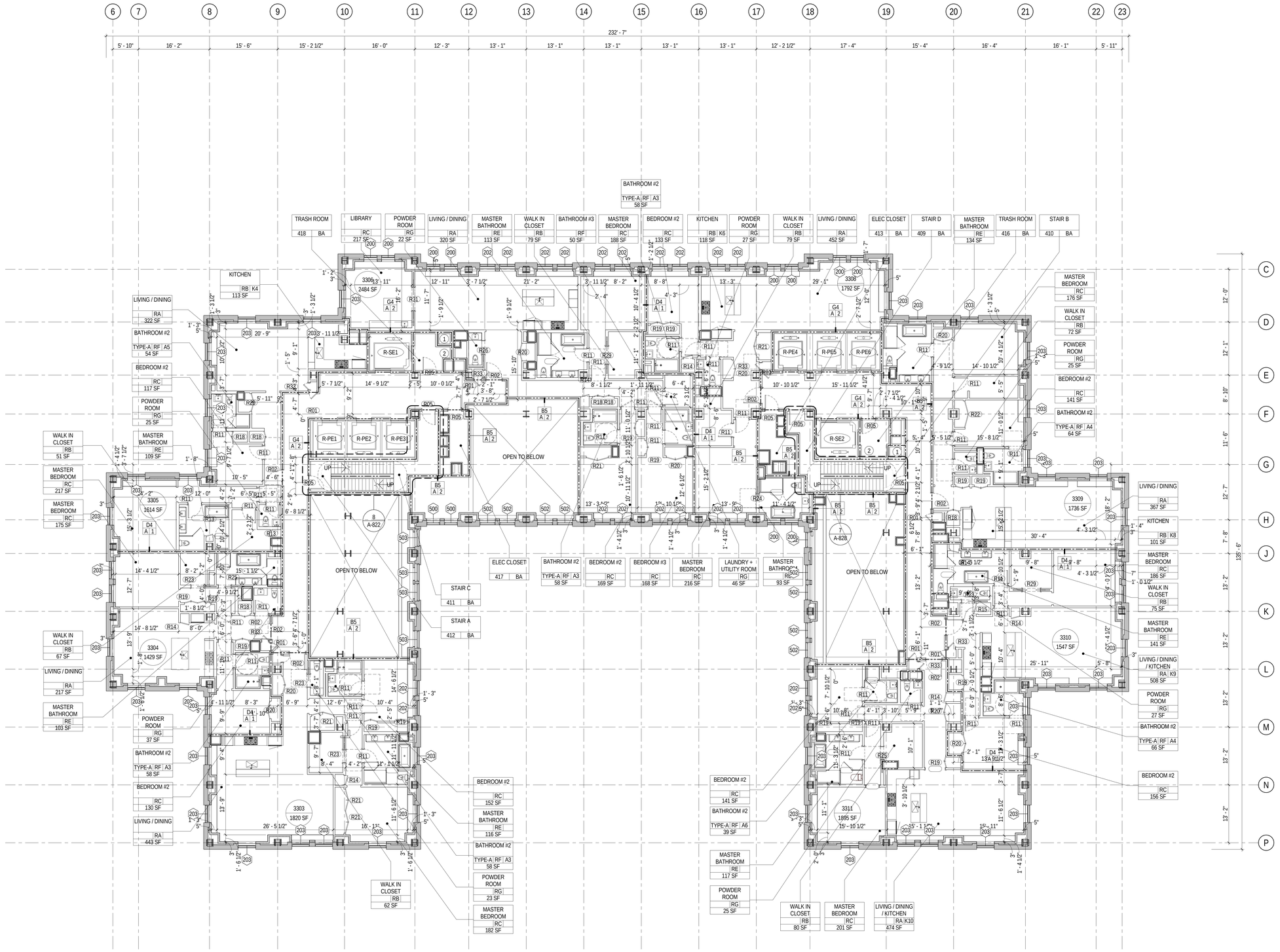

SHEET NOTES

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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- 200 WINDOW TAG

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WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM GRAF
No. 023338
STATE OF NEW YORK

NO:	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 33 FLOOR PLAN

B-SCAN - DRAWING NUMBER

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PAGE NUMBER

65 OF 137

1 LEVEL 33 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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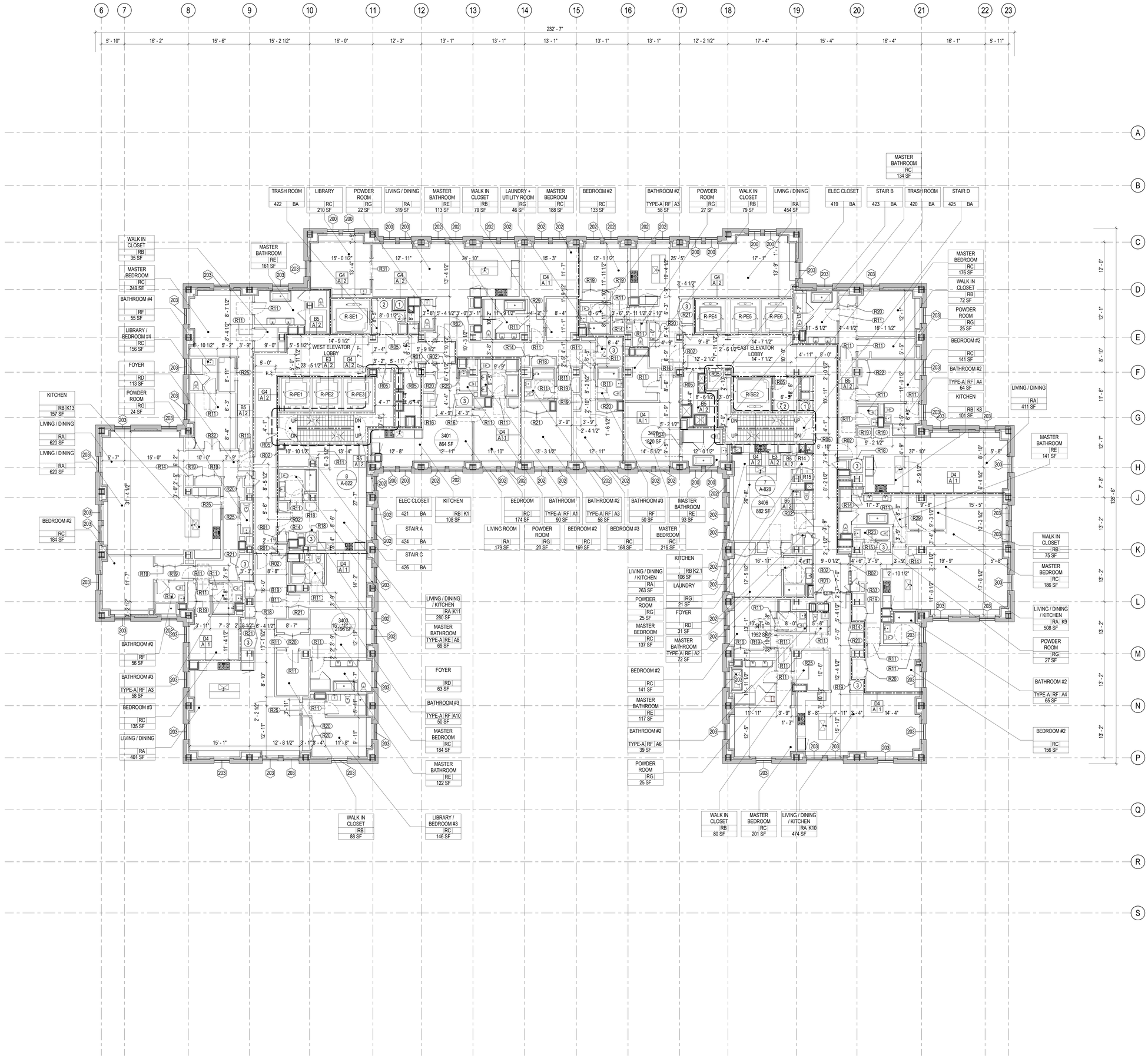
E3436547W030 Scan Code



1 LEVEL 34-36 FLOOR PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
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7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
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KEYPLAN

SEAL

REGISTERED ARCHITECT KENNETH ADAM TIBBS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 34-36 FLOOR PLAN

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A-163.00

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66 OF 137

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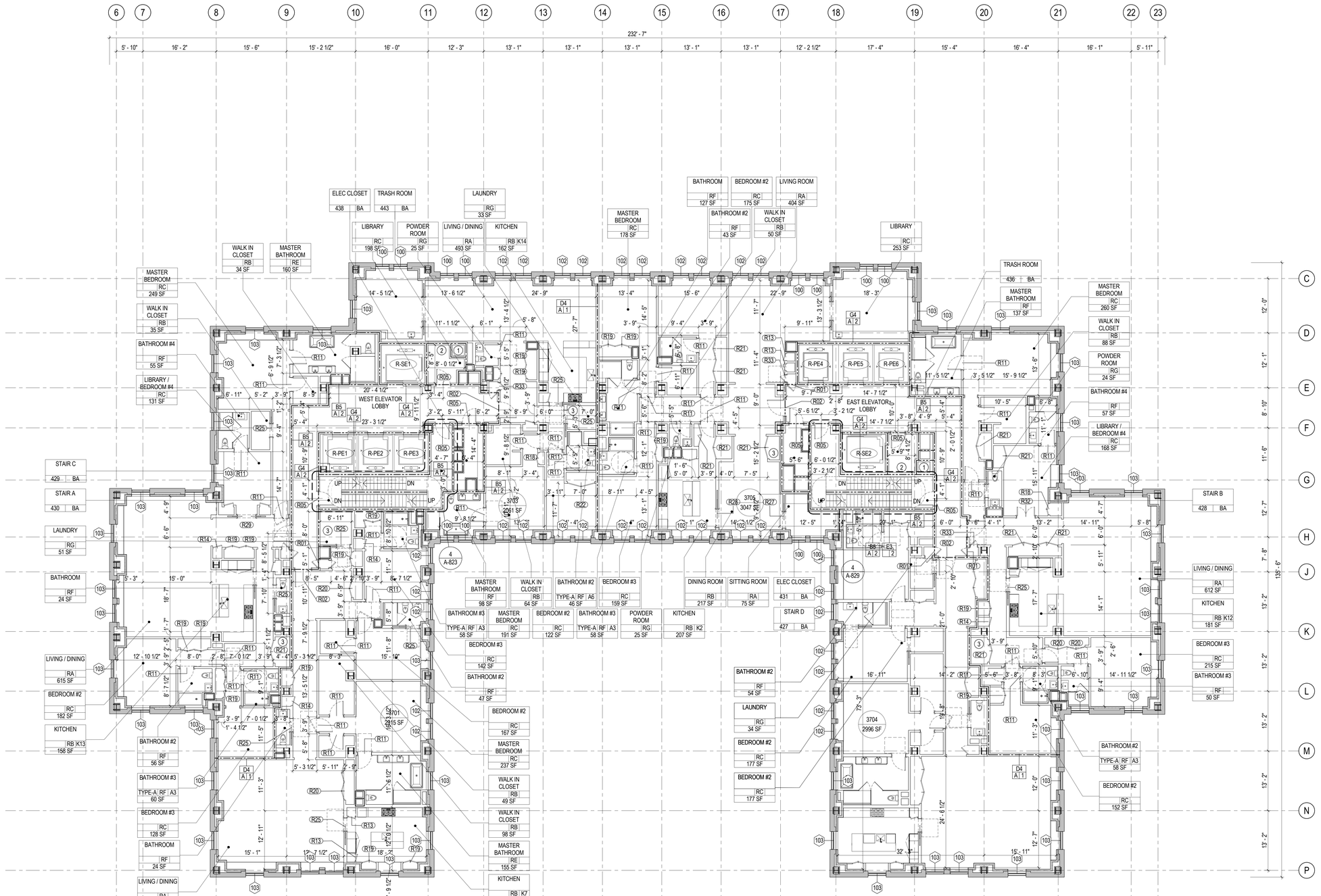

SHEET NOTES

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5. REFER TO A-813 FOR WINDOW SCHEDULE
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7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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SECURITY CONSULTANT
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Azmi Zahed-Atkins, RA
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NYC Development Hub

KEYPLAN

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REGISTERED ARCHITECT
AZMI ZAHED-ATKINS
No. 023235
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 37 FLOOR PLAN

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67 OF 137

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1 LEVEL 37 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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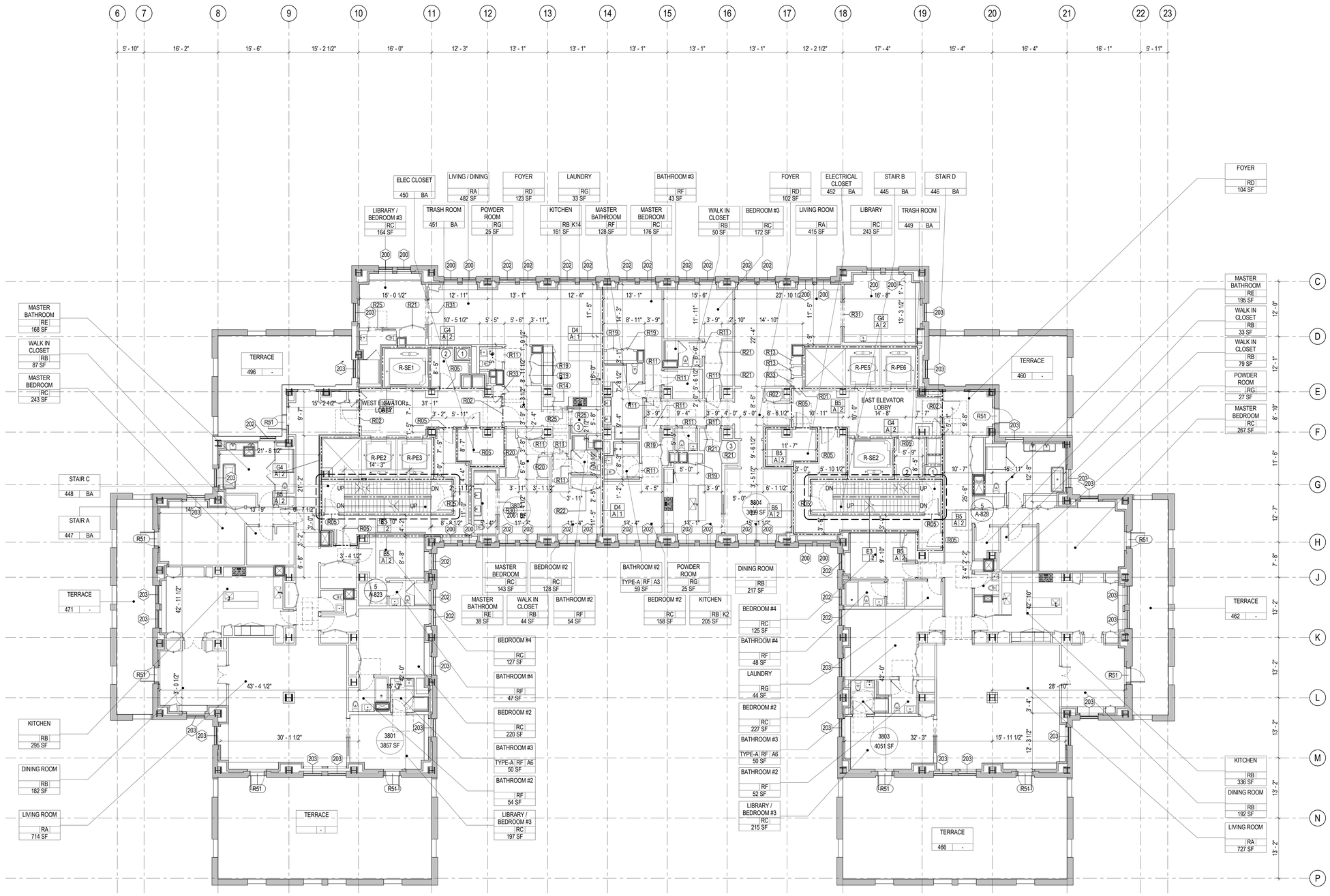
ES1965412385 Scan Code



SHEET NOTES

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5. REFER TO A-813 FOR WINDOW SCHEDULE
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7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
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9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
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A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

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A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
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A-727	B3

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
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4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- 200 WINDOW TAG

1 LEVEL 38 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL
REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 38 FLOOR PLAN

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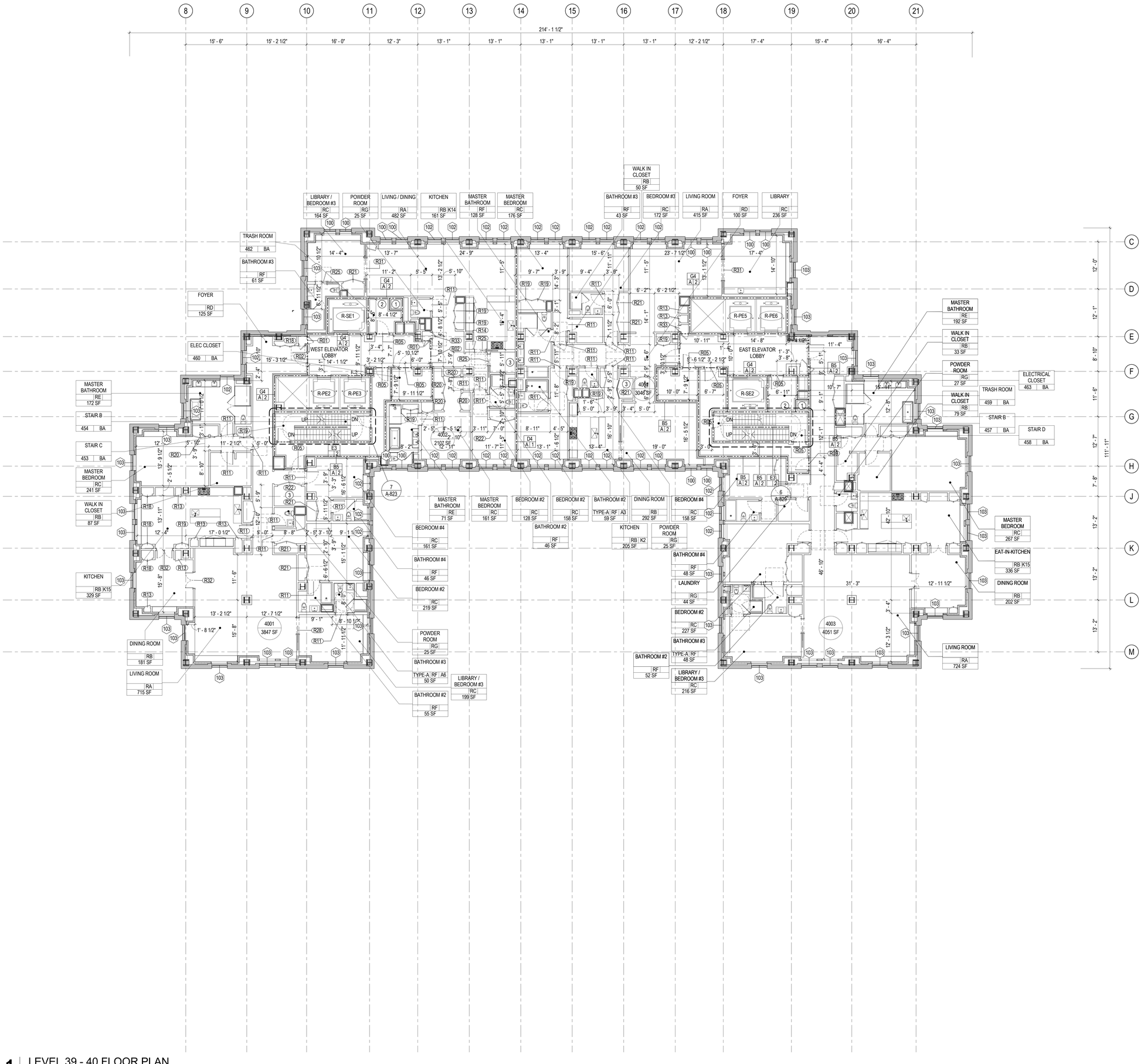

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8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

1. ALL SLAB PENETRATIONS FOR PIPES, CONDUITS, ETC (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A 3 HOUR RATED SYSTEM. ALL MULTI PIPE PENETRATIONS TO HAVE A MULTI PIPE SYSTEM.
2. ALL PENETRATIONS THROUGH EXISTING AND NEW RATED WALL ASSEMBLIES TO HAVE A FIRESTOP ASSEMBLY SYSTEM TO MATCH THE RATING OF THE WALL.
3. SHADED AREAS ARE NOT IN CONTRACT (N.I.C.). REFER TO ALL DISCIPLINES FOR NIC HATCH RELATIVE TO EACH DISCIPLINES SCOPE OF WORK.
4. THE PRECISE NUMBER, SIZE, AND LOCATION OF ALL HOUSEKEEPING PADS REQUIRED TO SUPPORT OR MAINTAIN MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT SHALL BE CONFIRMED WITH THE EQUIPMENT SUPPLIERS
5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- (200) WINDOW TAG

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SECURITY CONSULTANT
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Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 39-40 FLOOR PLAN

B-SCAN - DRAWING NUMBER
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PAGE NUMBER
69 OF 137

1 LEVEL 39 - 40 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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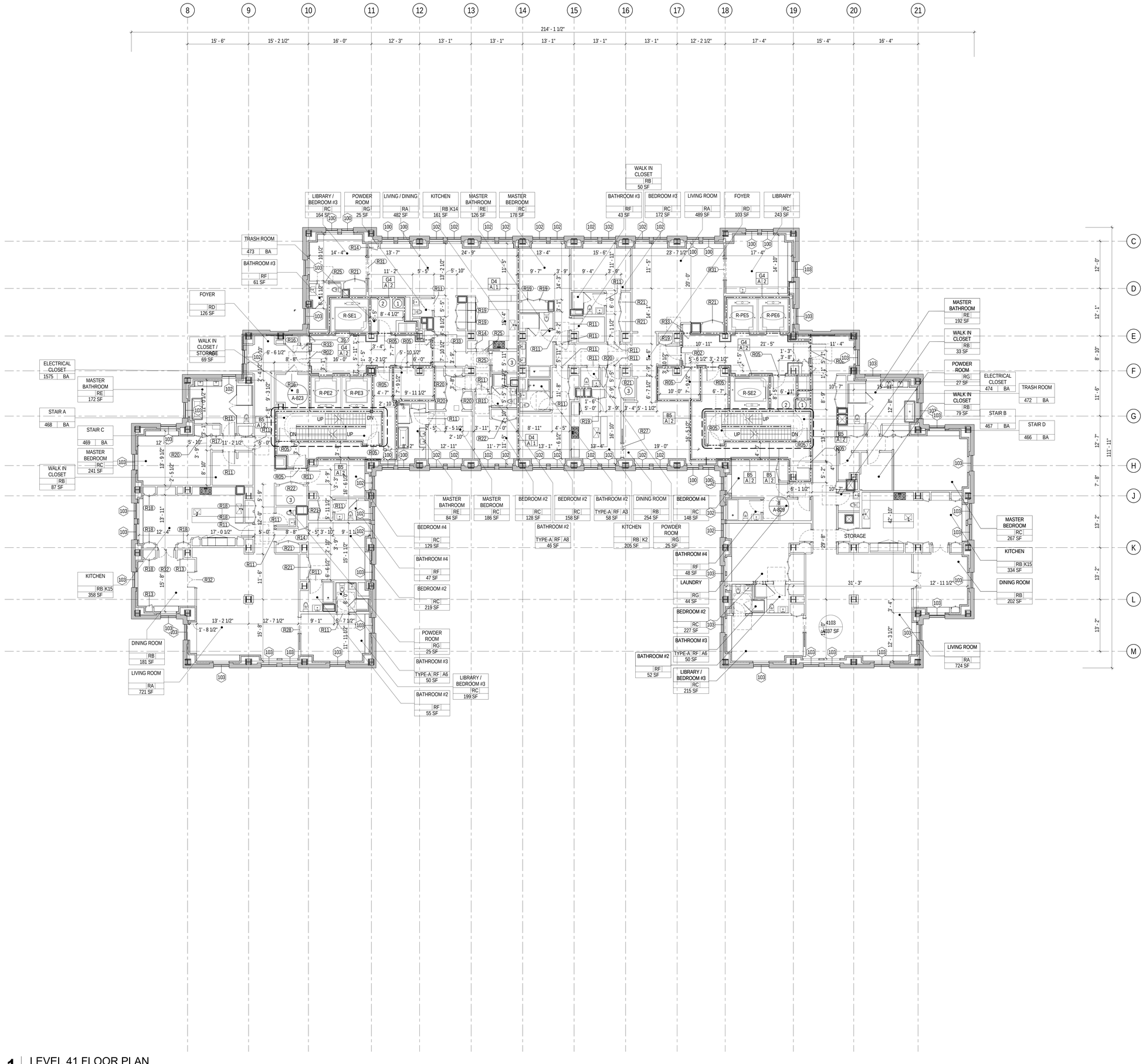
DEPT OF BLDGS 421910245 Job Number
E1515710959 Scan Code



SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

1. ALL SLAB PENETRATIONS FOR PIPES, CONDUITS, ETC (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A 3 HOUR RATED SYSTEM. ALL MULTI PIPE PENETRATIONS TO HAVE A MULTI PIPE SYSTEM.
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5. ALL STRUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- NOT IN CONTRACT
- 1 HR RATED PARTITION
- 2 HR RATED PARTITION
- 3 HR RATED PARTITION
- 4 HR RATED PARTITION
- SMOKE RATING
- 200 WINDOW TAG

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LOGISTICS CONSULTANT
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TRAFFIC, PARKING, AND LOADING
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EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
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Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM HAHN
No. 023338
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 41 FLOOR PLAN

B-SCAN - DRAWING NUMBER
A-170.00

PAGE NUMBER
70 OF 137

1 LEVEL 41 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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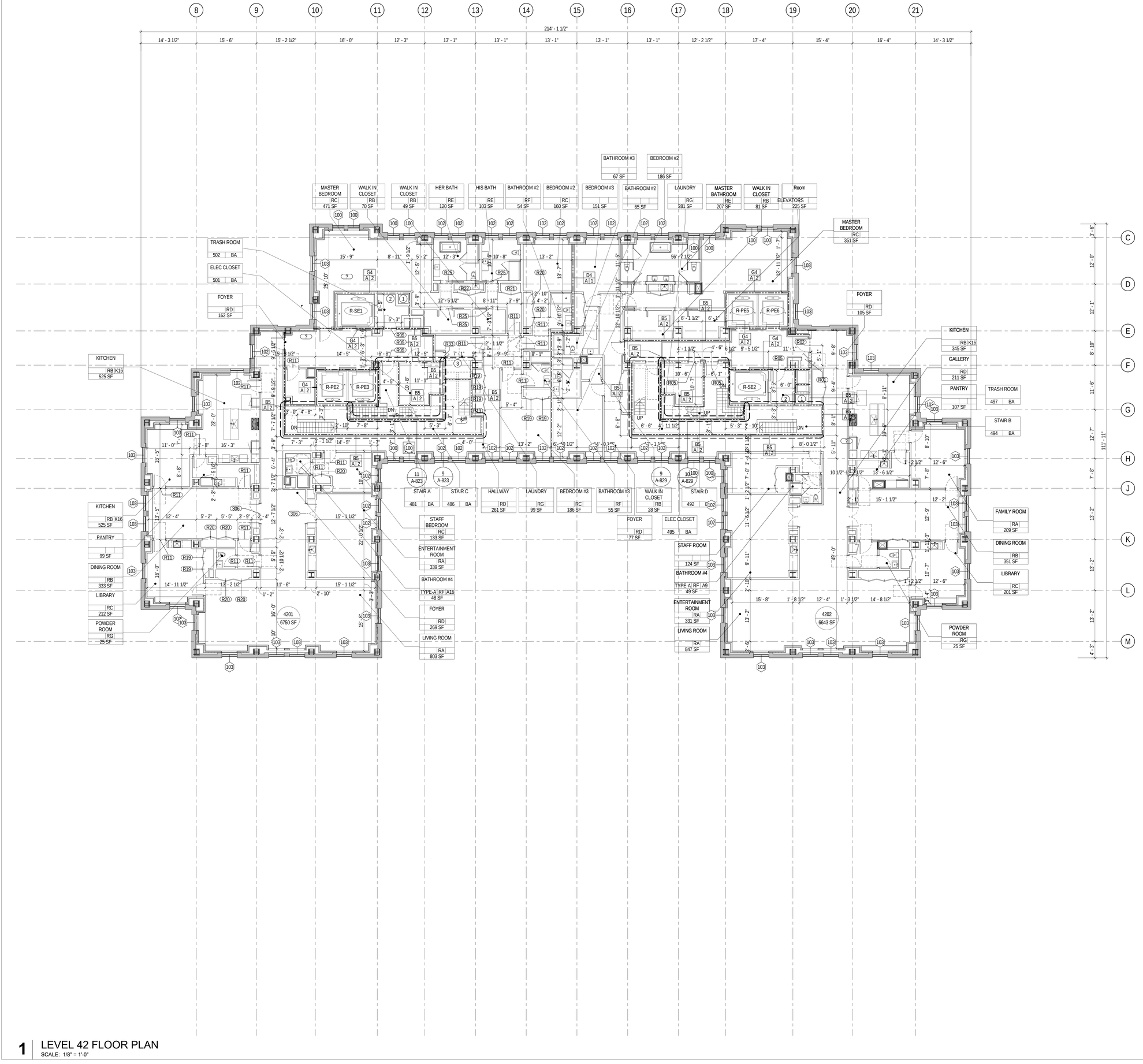
E304662639 Scan Code



1 LEVEL 42 FLOOR PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
6. REFER TO A-700 SERIES FOR KITCHEN PLANS AND ELEVATIONS
7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
A-702	K4, K5, K6
A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

1. ALL SLAB PENETRATIONS FOR PIPES, CONDUITS, ETC (OUTSIDE OF RATED SHAFTS) ARE TO BE FIRESAFED WITH A 3 HOUR RATED SYSTEM. ALL MULTI PIPE PENETRATIONS TO HAVE A MULTI PIPE SYSTEM.
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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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TRAFFIC, PARKING, AND LOADING
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EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
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Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM ZAHED ATKINS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
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DRAWING TITLE
LEVEL 42 FLOOR PLAN

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71 OF 137

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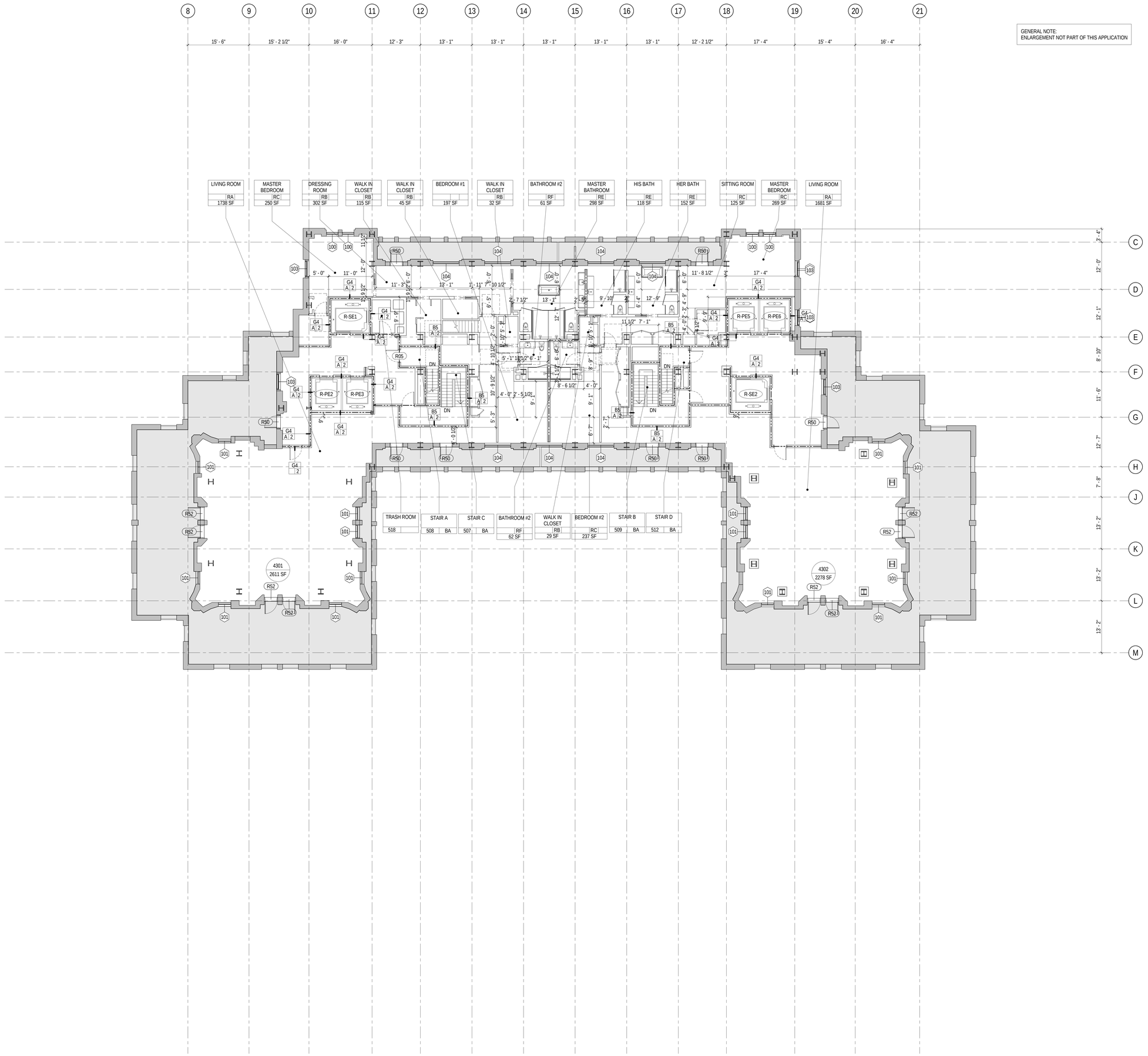

1 LEVEL 43 FLOOR PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
3. REFER TO A-801 AND A-802 FOR PARTITION TYPES
4. REFER TO A-812 FOR DOOR SCHEDULE
5. REFER TO A-813 FOR WINDOW SCHEDULE
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7. REFER TO A-720 SERIES FOR BATHROOM PLANS AND ELEVATIONS
8. ALL SPACES INDICATED AS STORAGE ARE GENERAL BUILDING STORAGE ROOMS
9. REFER TO A-701 FOR TYPICAL ENLARGED REFUSE ROOM PLAN

SHEET	KITCHEN TYPE
A-701	K1, K2, K3
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A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

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5. ALL STRUCTUCTURAL MEMBERSTO BE FIRE-PROOFED IN ACCORDANCE WITH NOTES ON G-002

KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

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LOGISTICS CONSULTANT
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TRAFFIC, PARKING, AND LOADING
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EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
Building Department
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Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

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DANIEL ADAM TREES
No. 023235
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NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 43 - FLOOR PLAN

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72 OF 137

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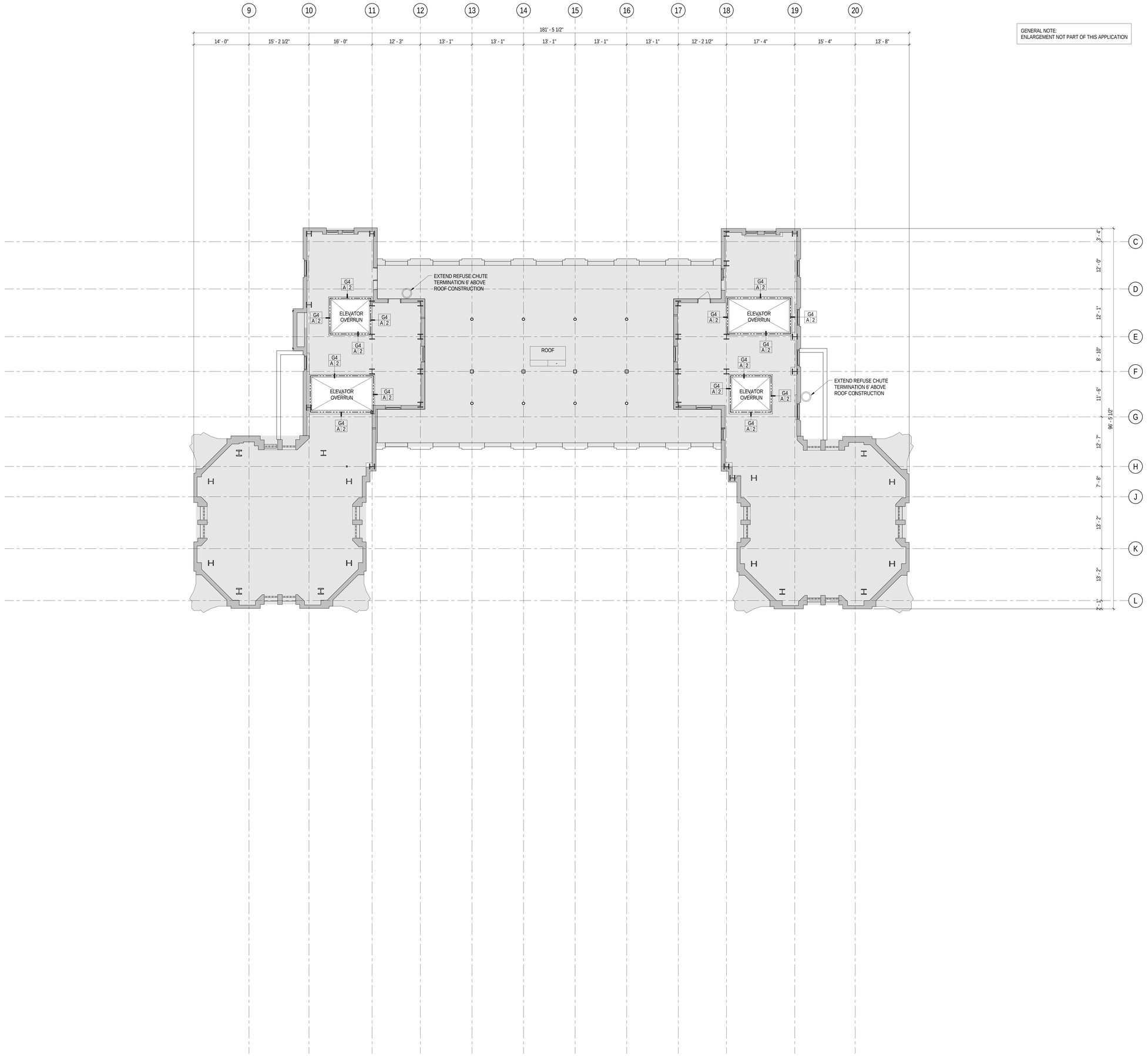

GENERAL NOTE:
ENLARGEMENT NOT PART OF THIS APPLICATION

SHEET NOTES

1. REFER TO G-002 FOR FINISH SCHEDULE
2. REFER TO G-003 FOR MOUNTING HEIGHTS
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4. REFER TO A-812 FOR DOOR SCHEDULE
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SHEET	KITCHEN TYPE
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A-703	K7, K8, K9
A-704	K10, K11, K12
A-705	K13, K14, K15
A-706	K16, K17, K18

SHEET	BATHROOM TYPE
A-721	A1, A2, A3
A-722	A4, A5, A6
A-723	A7, A8, A9
A-724	A10, A11, A12
A-725	A13, A14, A15
A-726	A16, B1, B2
A-727	B3

GENERAL NOTES

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KEYED NOTES

1 TRASH CHUTE
2 RECYCLABLE HOLDING AREA
3 WASHING MACHINE AND DRYER
4 SOFFIT ABOVE
5 DRINKING FOUNTAIN
6 ACCESSIBLE DRINKING FOUNTAIN

LEGEND

NOT IN CONTRACT
1 HR RATED PARTITION
2 HR RATED PARTITION
3 HR RATED PARTITION
4 HR RATED PARTITION
SMOKE RATING
200 WINDOW TAG

1 LEVEL 44 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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TRAFFIC, PARKING, AND LOADING
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EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
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Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

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REGISTERED ARCHITECT
KENNETH ADAM TOMEI
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2	20 JUN 2017	ISSUED TO DOB
1	27 MAR 2017	ISSUED TO DOB

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LEVEL 44 - FLOOR PLAN

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73 OF 137

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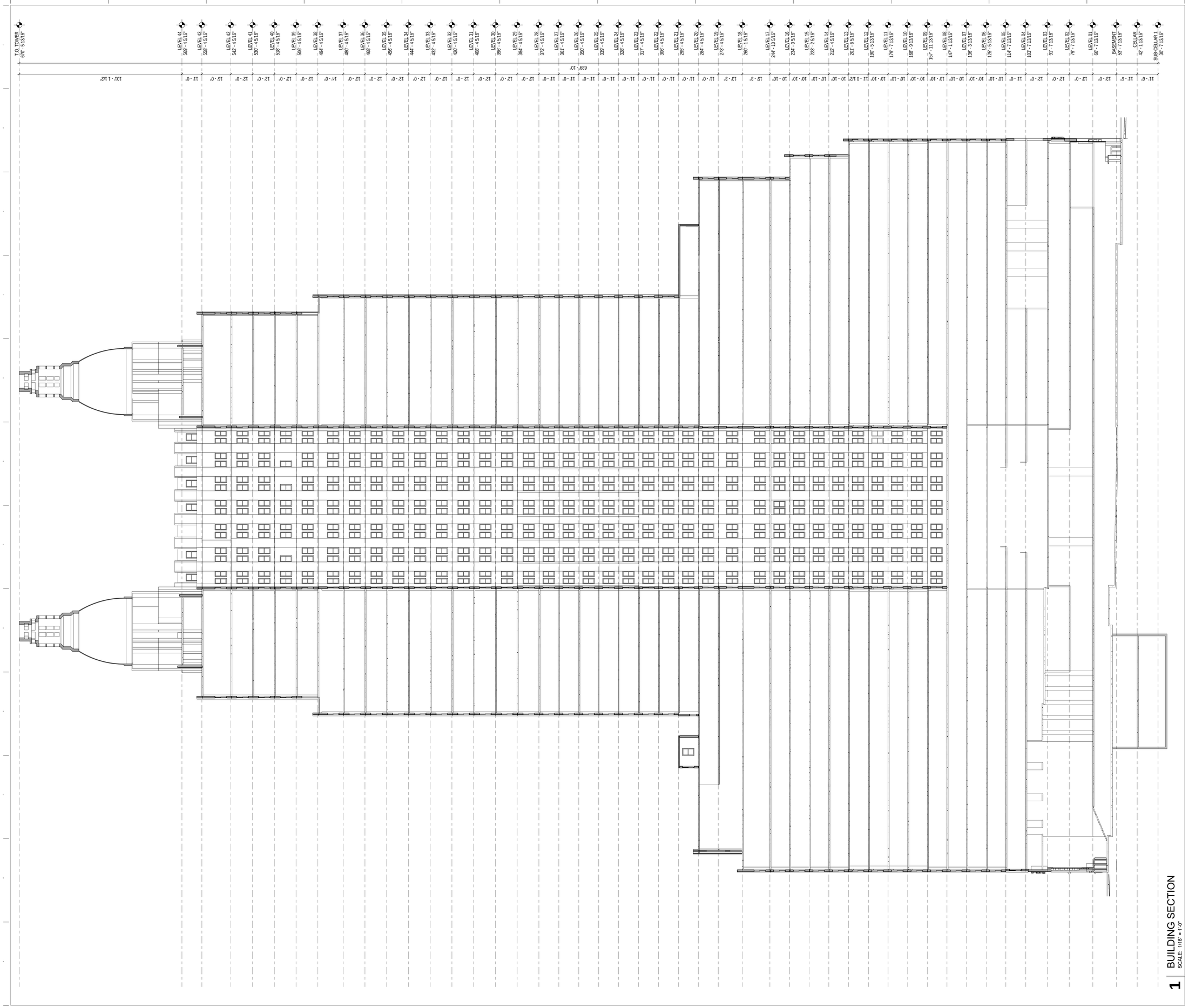

1 BUILDING SECTION
SCALE: 1/16" = 1'-0"

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Buildings
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NYC Development Hub

KEYPLAN

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KENNETH ADAM LEWIS
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DRAWING TITLE

BUILDING SECTION

B-SCAN - DRAWING NUMBER

A-221.00

PAGE NUMBER

74 OF 137

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1 BASEMENT - REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
2. ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURES U.N.O.
3. DEVICES AND LIGHT FIXTURES ARE NOT SHOWN IN ROOMS WITH EXPOSED STRUCTURE U.N.O. REFER TO MEP DRAWINGS
4. CEILING ELEVATION DIMENSIONED FROM FIN FLOOR U.N.O.

KEYED NOTES

LEGEND

- ELEV.REL.TO FIN FLR
- F1:FLOURESCENT STRIP FIXTURE
- F2:COVE LIGHT
- F3:DOWNLIGHT RECESSED CAN
- F4:PENDANT LIGHT
- F5:LIGHT SCONCE
- F6:RECESSED FLOURESCENT FIXTURE
- F7:WALL MOUNTED FLOURESCENT FIXTURE
- OS OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR

WALDORF ASTORIA

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OWNER

ANBANG GROUP 安邦集团

ARCHITECT

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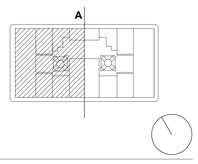
SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



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REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

BASEMENT REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-307.00

PAGE NUMBER

75 OF 137

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1 BASEMENT - REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

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2. ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURES U.N.O.
3. DEVICES AND LIGHT FIXTURES ARE NOT SHOWN IN ROOMS WITH EXPOSED STRUCTURE U.N.O. REFER TO MEP DRAWINGS
4. CEILING ELEVATION DIMENSIONED FROM FIN FLOOR U.N.O.

KEYED NOTES

LEGEND

- ELEV.REL.TO FIN FLR
- F1:FLOURESCENT STRIP FIXTURE
- F2:COVE LIGHT
- F3:DOWNLIGHT RECESSED CAN
- F4:PENDANT LIGHT
- F5:LIGHT SCONCE
- F6:RECESSED FLOURESCENT FIXTURE
- F7:WALL MOUNTED FLOURESCENT FIXTURE
- OS OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR

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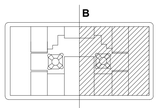
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

BASEMENT REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER

A-308.00

PAGE NUMBER

76 OF 137

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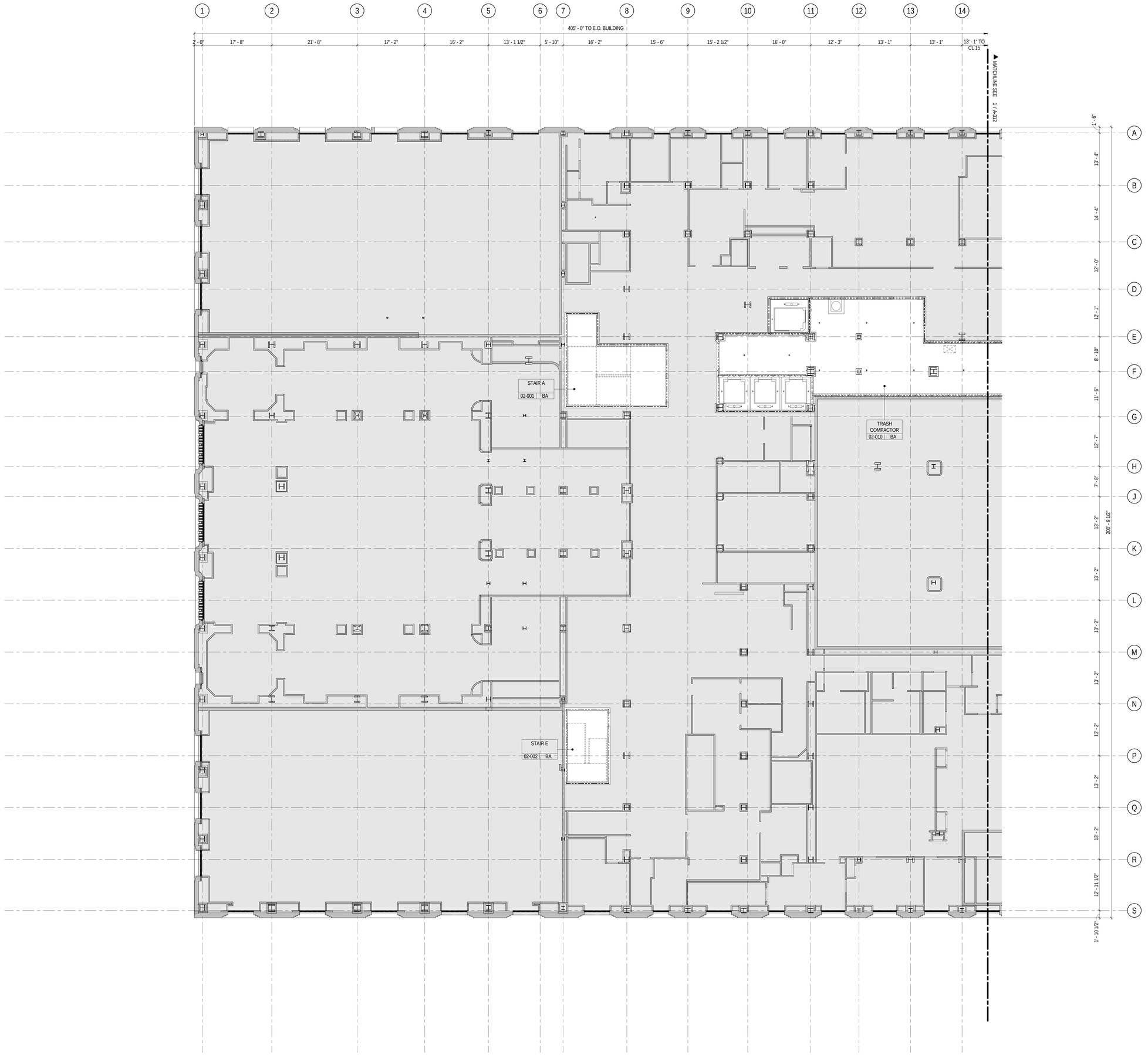

1 LEVEL 02 REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
2. ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURES U.N.O.
3. DEVICES AND LIGHT FIXTURES ARE NOT SHOWN IN ROOMS WITH EXPOSED STRUCTURE U.N.O. REFER TO MEP DRAWINGS
4. CEILING ELEVATION DIMENSIONED FROM FIN FLOOR U.N.O.

KEYED NOTES

1 1'-0" SOFFIT

LEGEND

- ELEV.REL.TO FIN FLR
- F1:FLOURESCENT STRIP FIXTURE
- F2:COVE LIGHT
- F3:DOWNLIGHT RECESSED CAN
- F4:PENDANT LIGHT
- F5:LIGHT SCONCE
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- F7:WALL MOUNTED FLOURESCENT FIXTURE
- OS OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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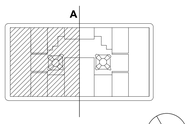
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 2 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-311.00

PAGE NUMBER

77 OF 137

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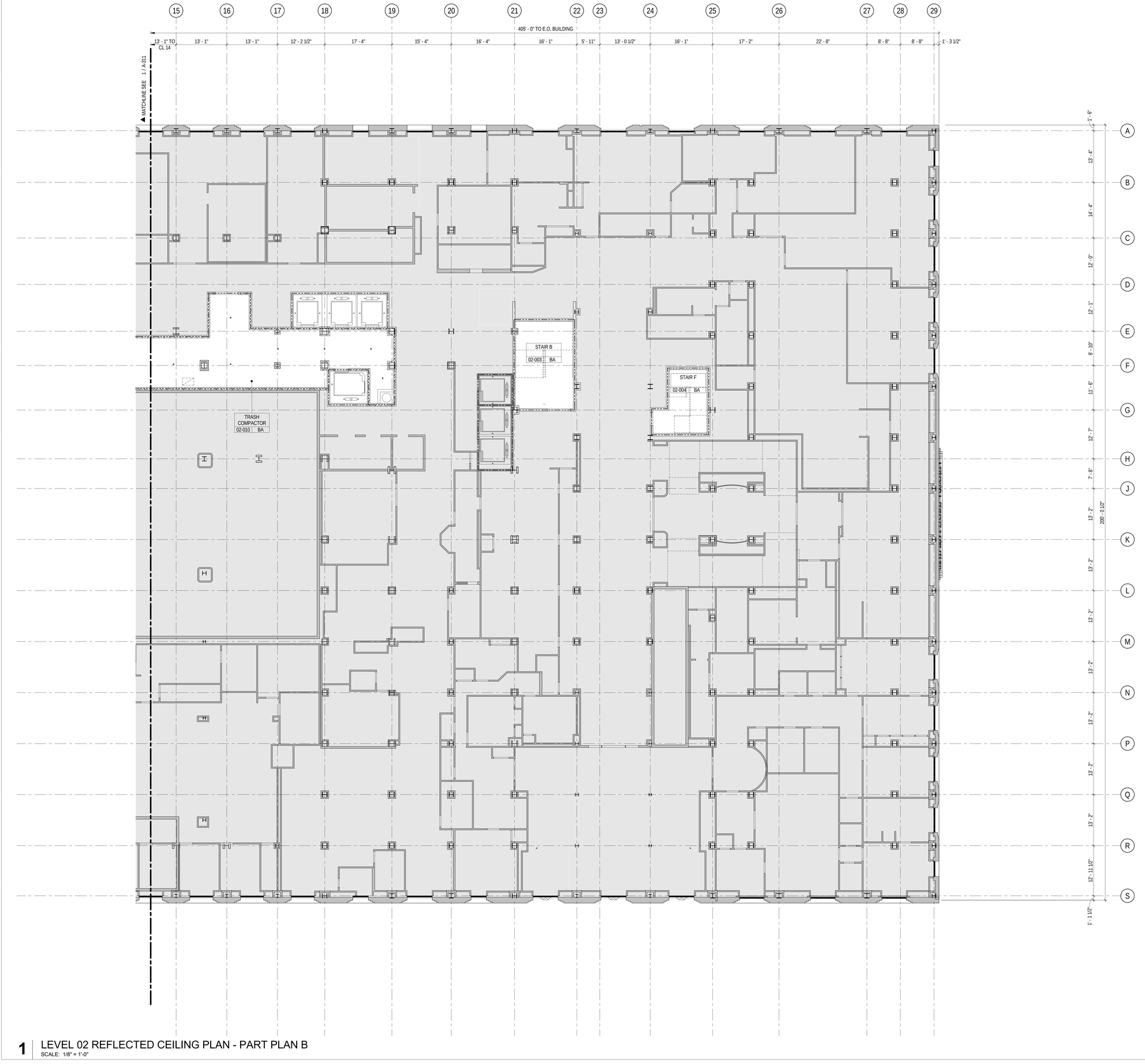

1 LEVEL 02 REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

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2. ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURES U.N.O.
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KEYED NOTES

1 1'-0" SOFFIT

LEGEND

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- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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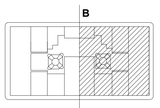
KEYPLAN



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REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	27 MAR 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 2 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER

A-312.00

PAGE NUMBER

78 OF 137

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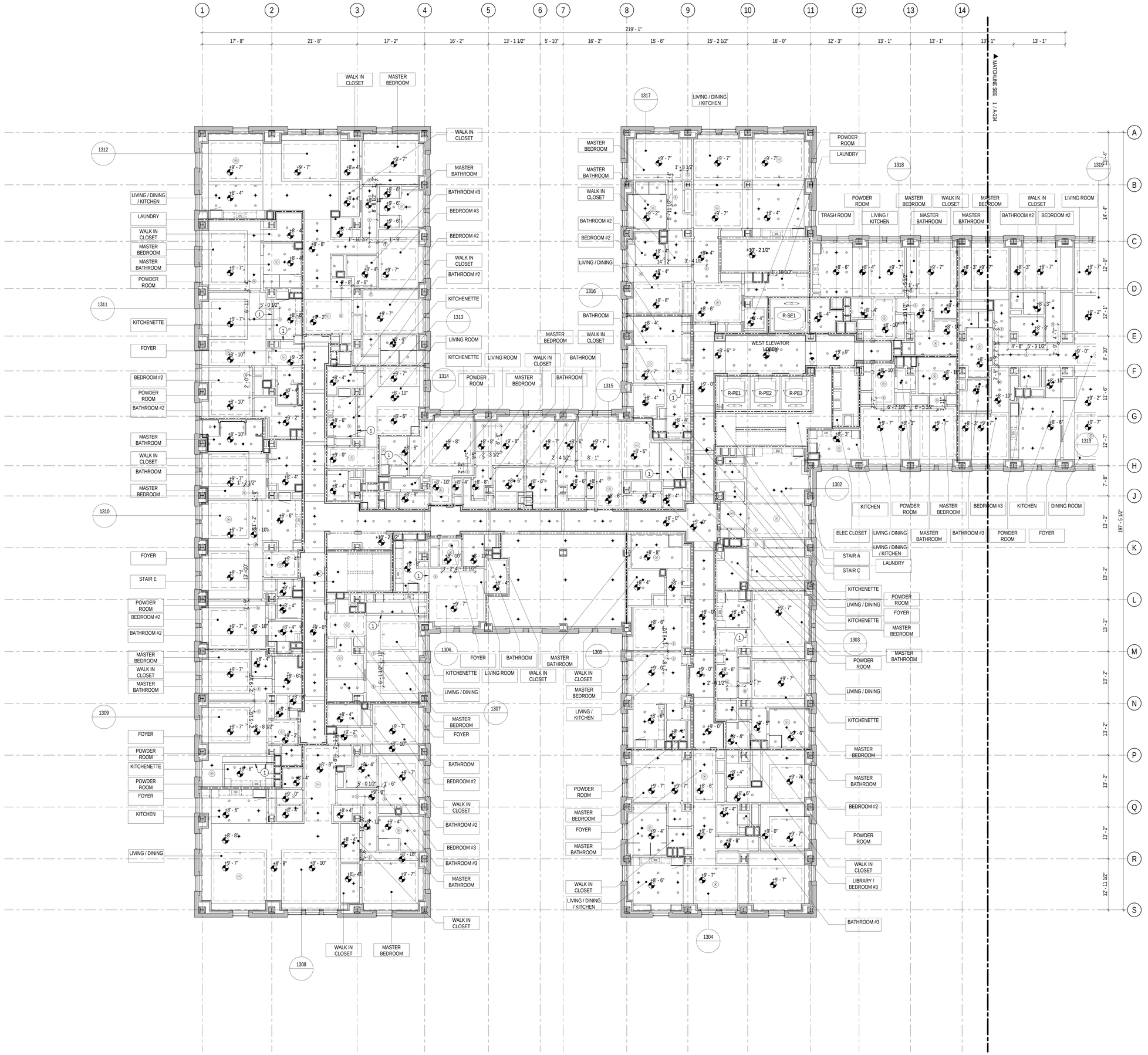

1 LEVEL 13 REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

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KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

LEGEND

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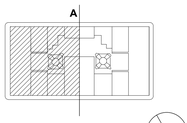

SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 13 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-333.00

PAGE NUMBER

79 OF 137

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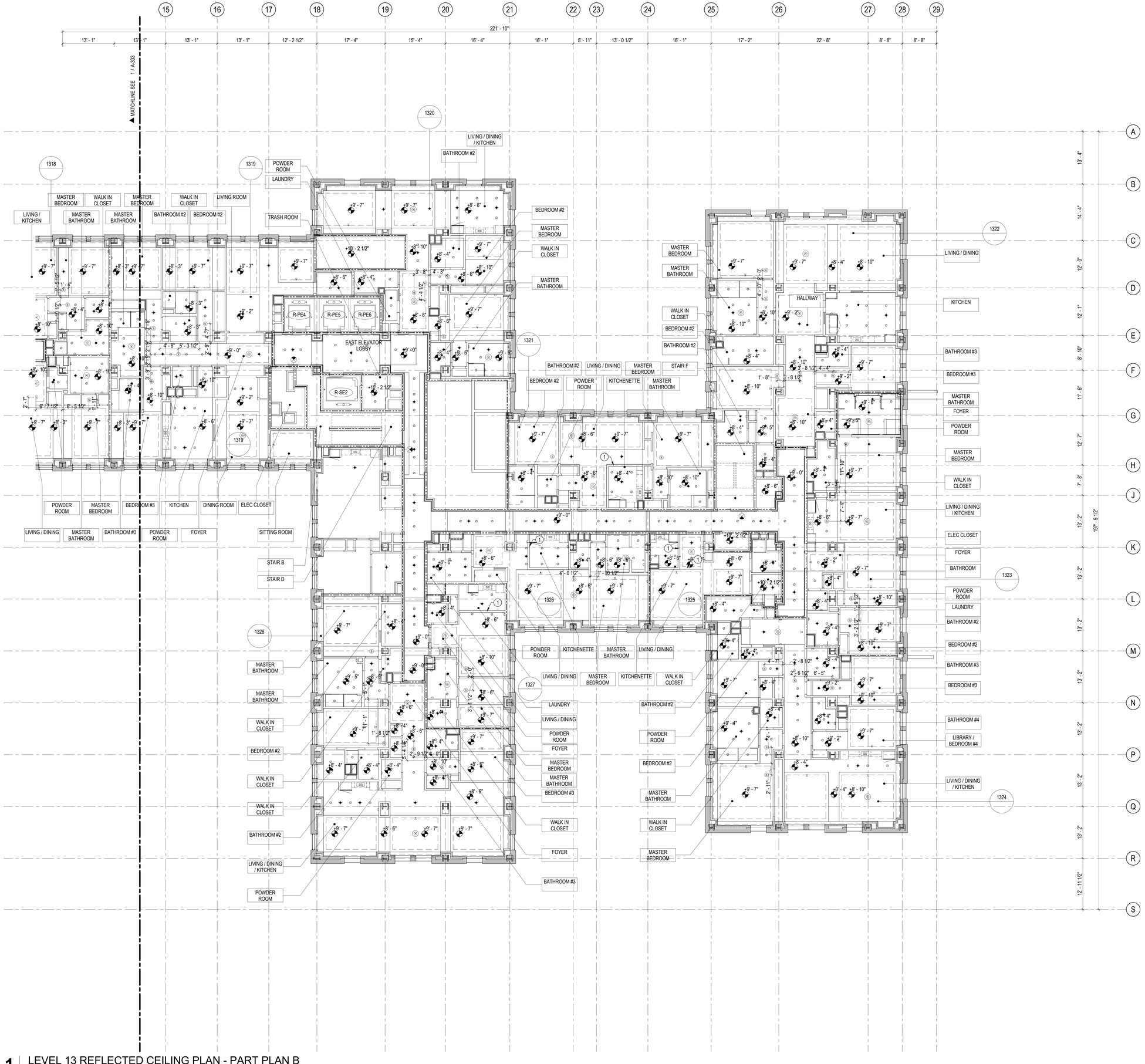

1 LEVEL 13 REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
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KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

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- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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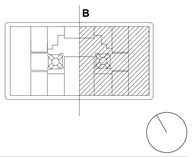

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KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
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1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 13 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER

A-334.00

PAGE NUMBER

80 OF 137

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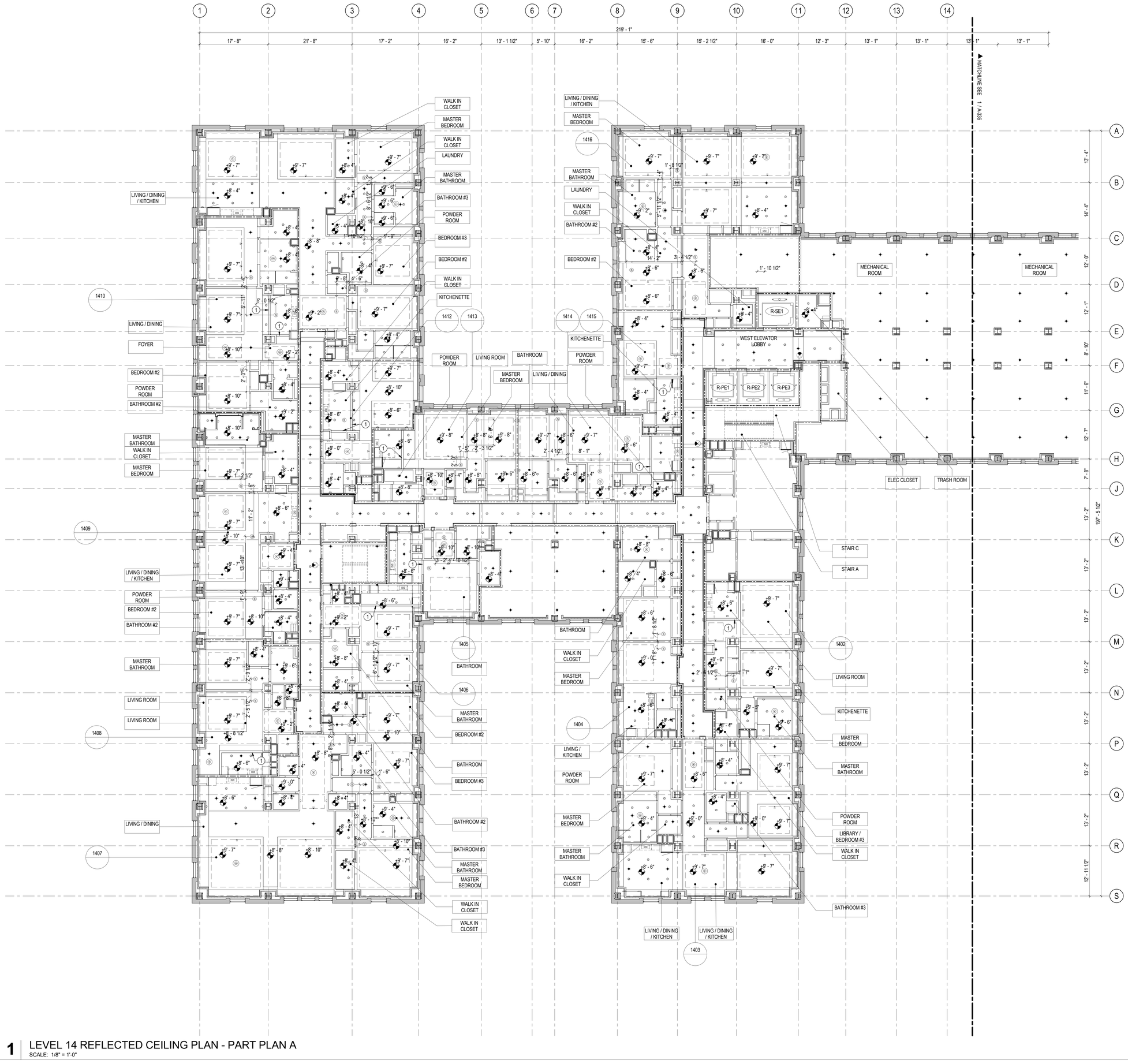
DEPT OF BLDGS 421191245 Job Number
E3970958026 Scan Code



1 LEVEL 14 REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

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KEYED NOTES

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- OS: OCCUPANCY SENSOR
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- S: SMOKE & CO DETECTOR
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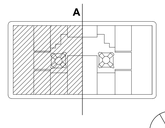

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REGISTERED ARCHITECT
KENNETH ADAM ORR
No. 023338
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NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 14 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-335.00

PAGE NUMBER
81 OF 137

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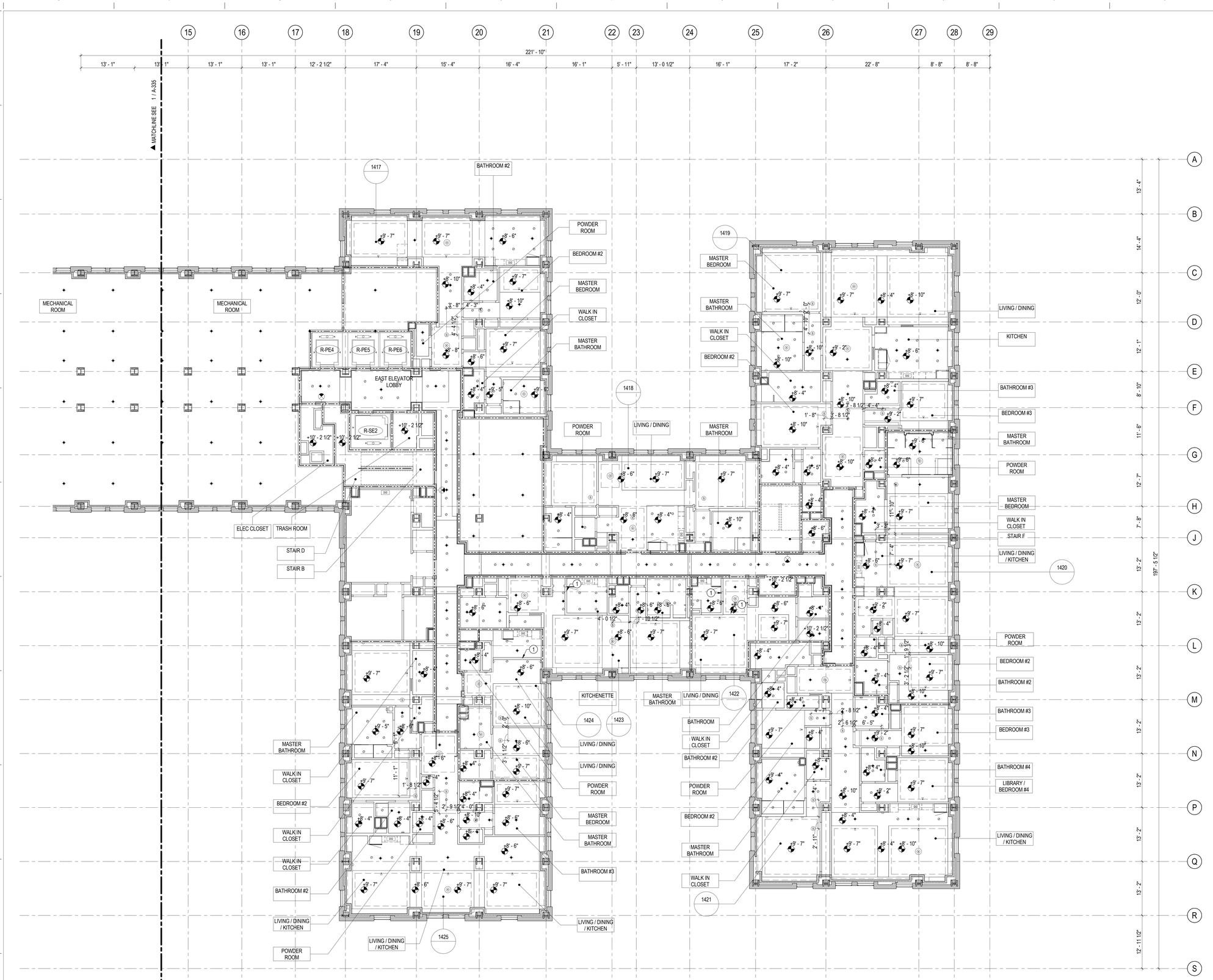

1 LEVEL 14 REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

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KEYED NOTES

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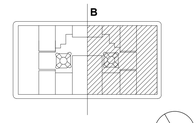

SEAL

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No. 023535
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3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 14 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER
A-336.00

PAGE NUMBER
82 OF 137

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E1605785305 Scan Code

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
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5. ALL KITCHENETTES TO HAVE EXHAUST GRILLE, TYPICAL

KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

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SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
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REGISTERED ARCHITECT
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STATE OF NEW YORK

NO.	DATE	DESCRIPTION
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DRAWING TITLE

LEVEL 15 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-337.00

PAGE NUMBER
83 OF 137

1 LEVEL 15 REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

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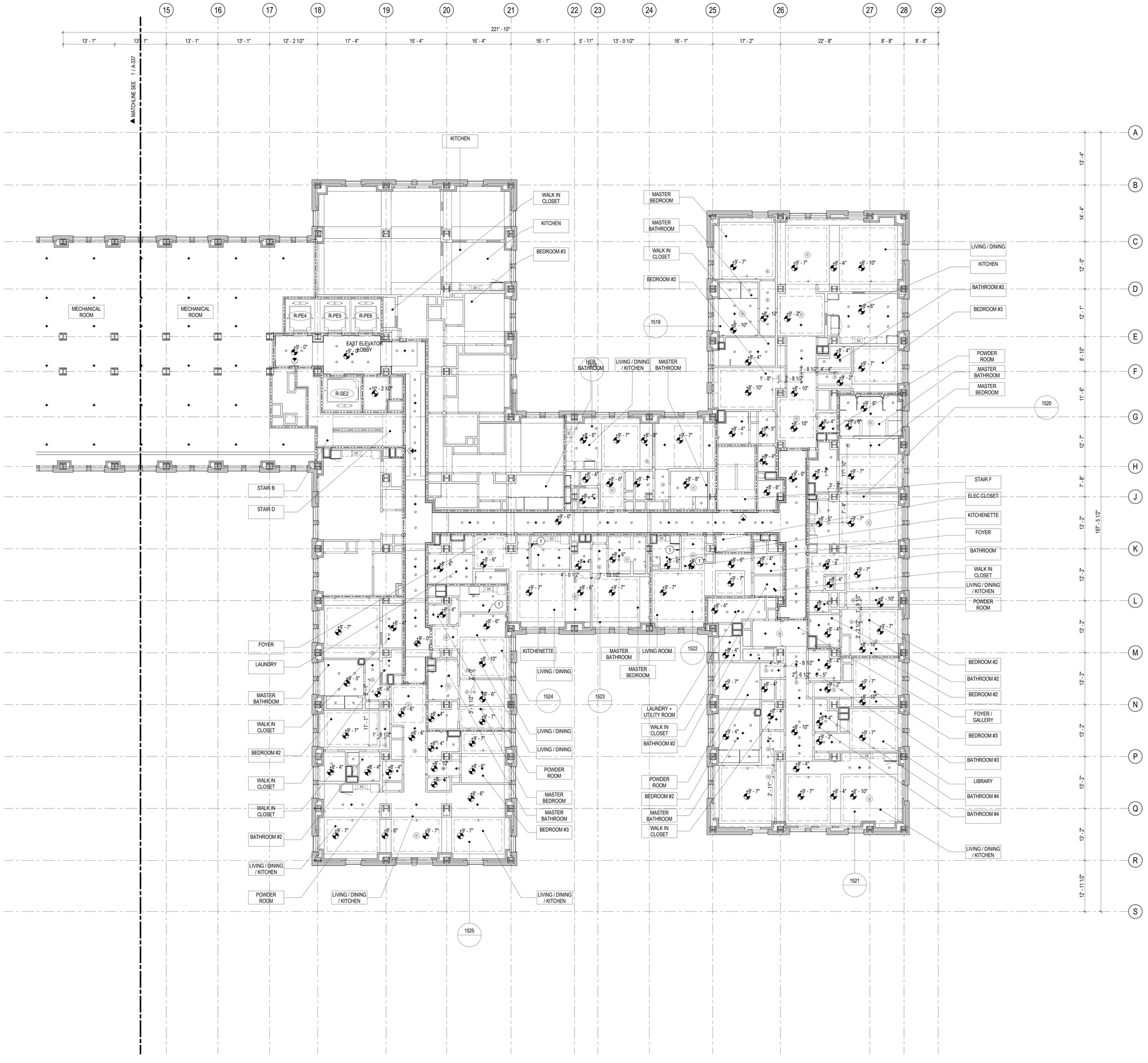

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
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3. DEVICES AND LIGHT FIXTURES ARE NOT SHOWN IN ROOMS WITH EXPOSED STRUCTURE U.N.O. REFER TO MEP DRAWINGS
4. CEILING ELEVATION DIMENSIONED FROM FIN FLOOR U.N.O.
5. ALL KITCHENETTES TO HAVE EXHAUST GRILLE, TYPICAL

KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

LEGEND

- ELEV.REL.TO FIN FLR
- F1:FLOURESCENT STRIP FIXTURE
- F2:COVE LIGHT
- F3:DOWNLIGHT RECESSED CAN
- F4:PENDANT LIGHT
- F5:LIGHT SCONCE
- F6:RECESSED FLOURESCENT FIXTURE
- F7:WALL MOUNTED FLOURESCENT FIXTURE
- OS OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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TRAFFIC, PARKING, AND LOADING
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SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
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Under Directive 2 of 1975
Date: 07/14/2017
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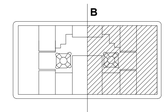
KEYPLAN:



SEAL

REGISTERED ARCHITECT
KENNETH ADAM PEH
No. 023935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 15 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER

A-338.00

PAGE NUMBER
84 OF 137

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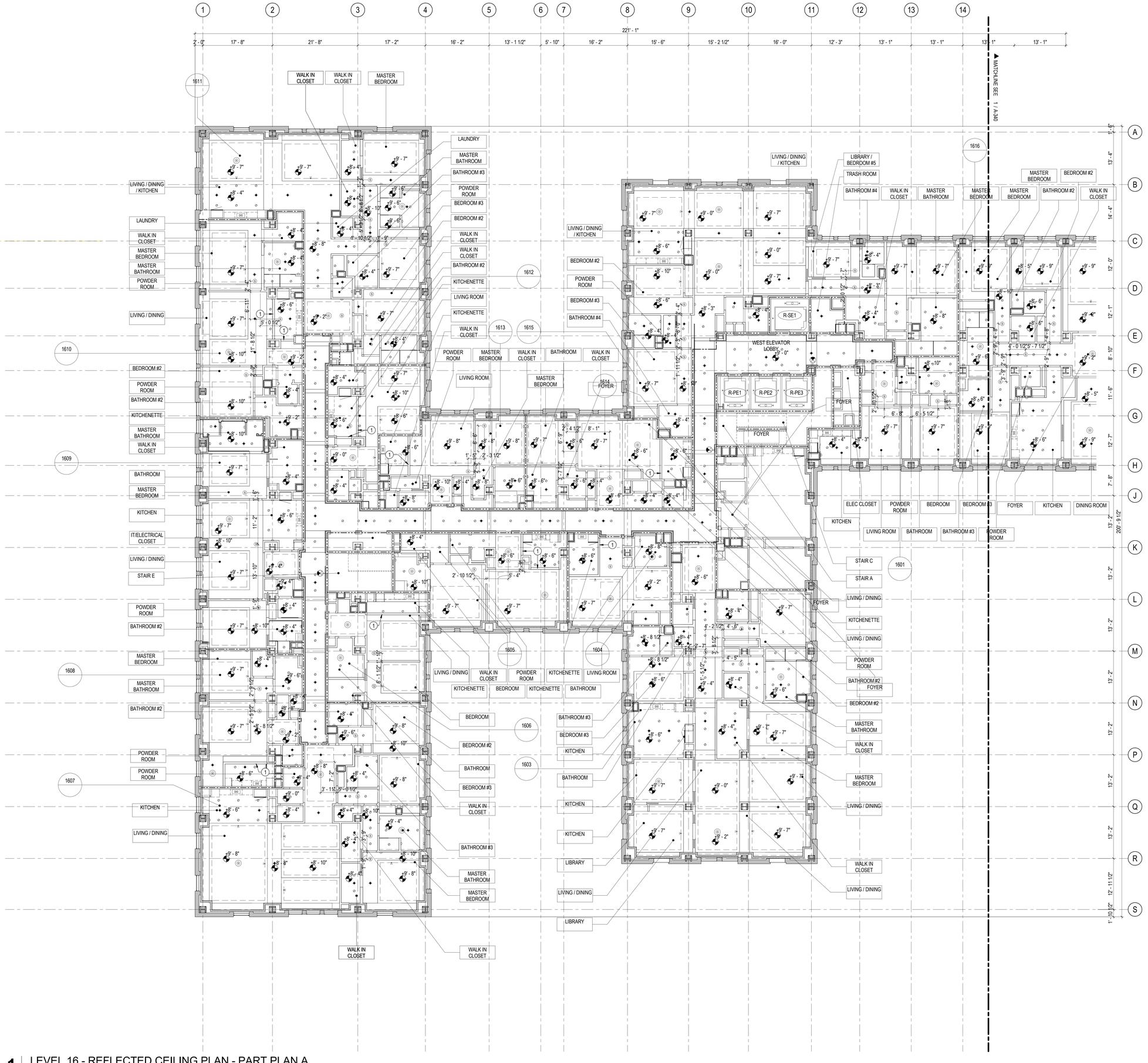
DEPT OF BLDGS 421910745 Job Number
E509561218N Scan Code



1 LEVEL 16 - REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

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- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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Kroll Inc.

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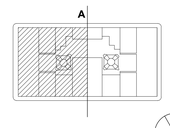

SEAL

REGISTERED ARCHITECT KENNETH ADAM PEH No. 023935 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 16 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-339.00

PAGE NUMBER
85 OF 137

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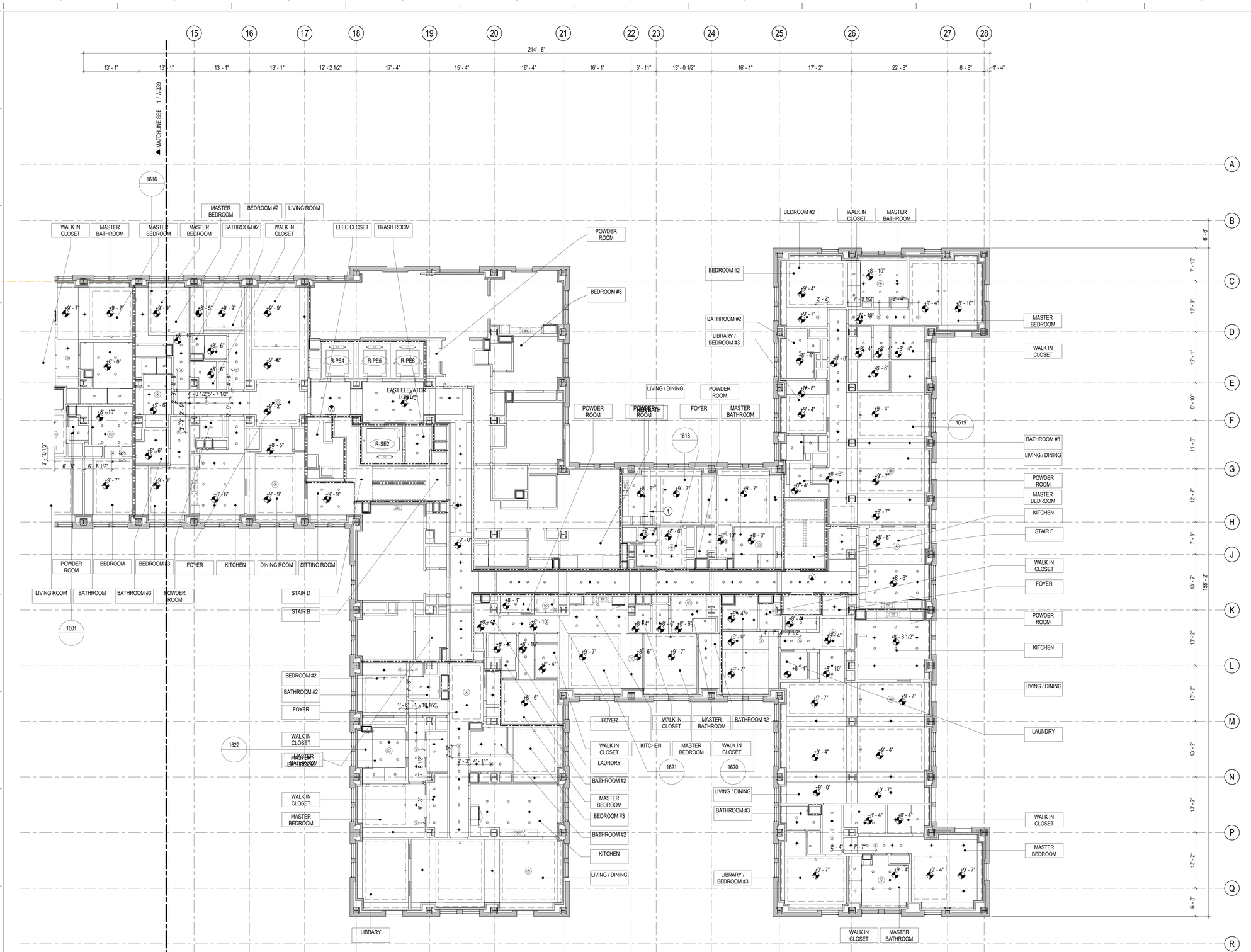

1 LEVEL 16 - REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
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Kroll Inc.

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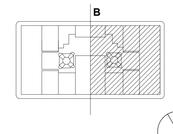
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM NOE
No. 023383
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 16 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER

A-340.00

PAGE NUMBER
86 OF 137

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DEPT OF BLDGS 421351245 Job Number
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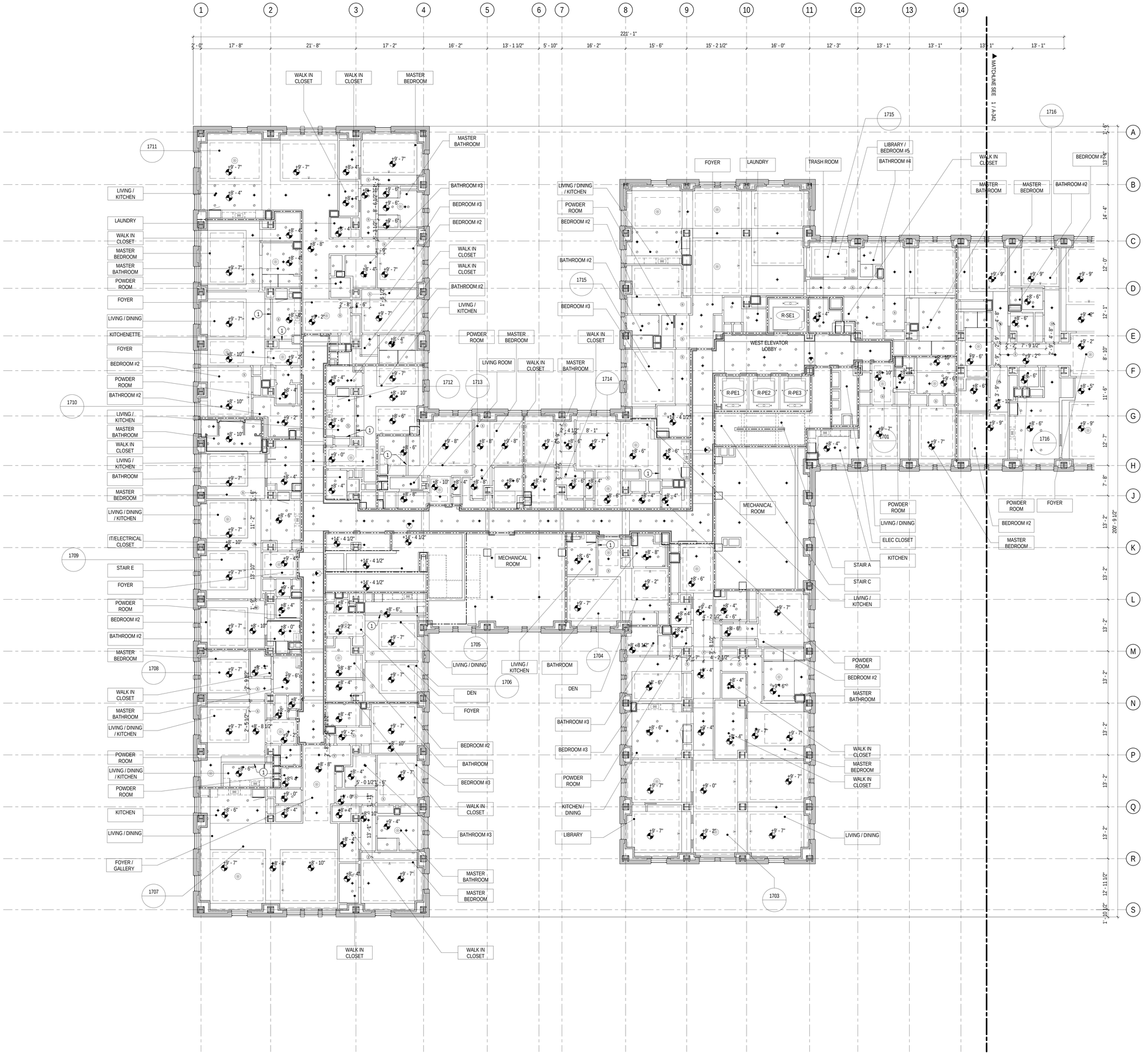

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- SIDEWALL SPRINKLER HEAD
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- WALL MOUNTED EXIT SIGN
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- KITCHEN HOOD

1 LEVEL 17 REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

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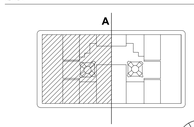
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM PEHL
NO. 023328
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 17 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-341.00

PAGE NUMBER
87 OF 137

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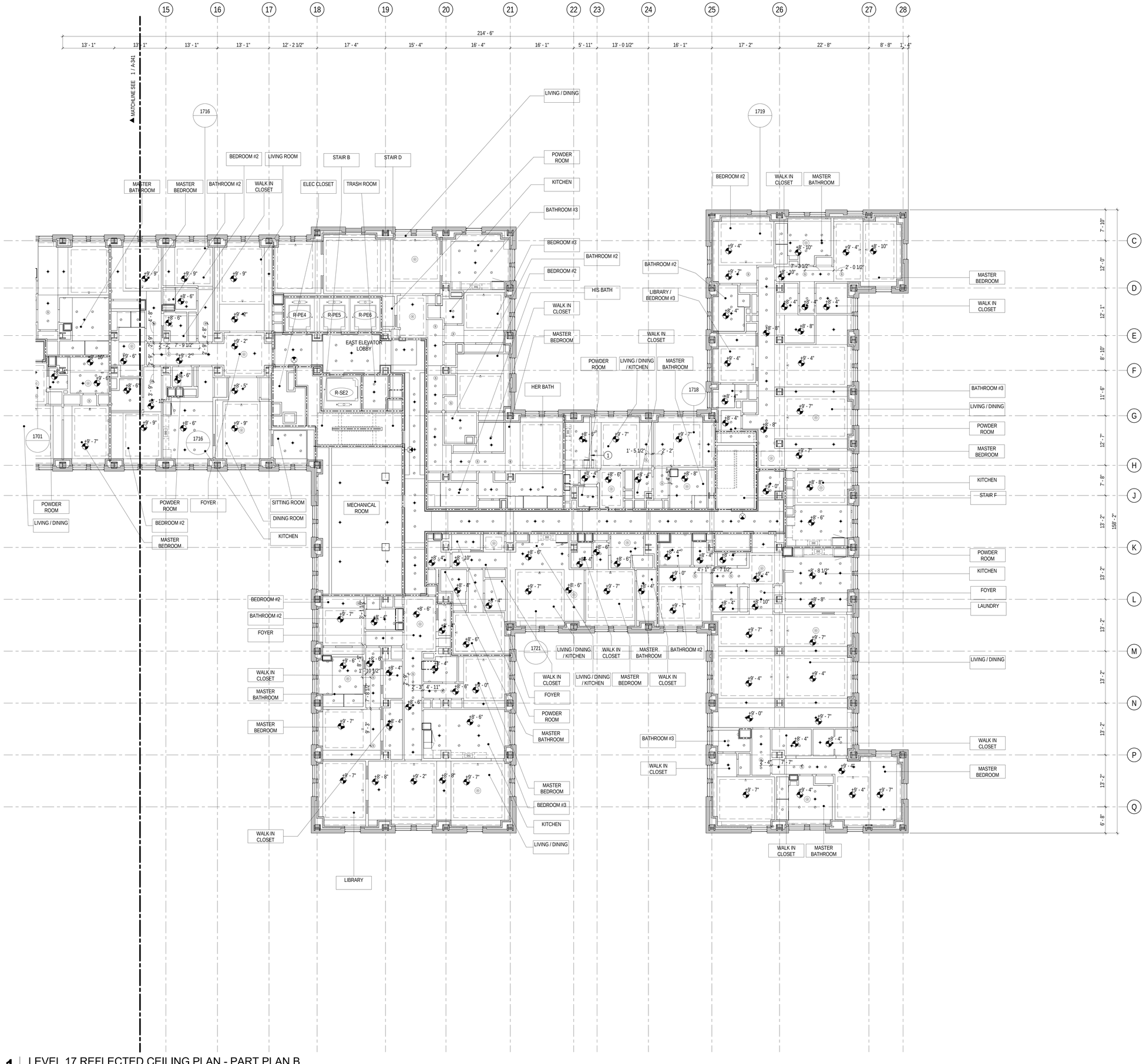
E350220548001 Scan Code



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- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S: SMOKE & CO DETECTOR
- KITCHEN HOOD

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VERTICAL TRANSPORTATION

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Date: 07/14/2017
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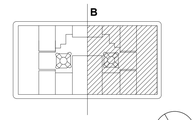
KEYPLAN:



SEAL

REGISTERED ARCHITECT
KENNETH ADAM CHIN
NO. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 17 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER

A-342.00

PAGE NUMBER

88 OF 137

1 LEVEL 17 REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

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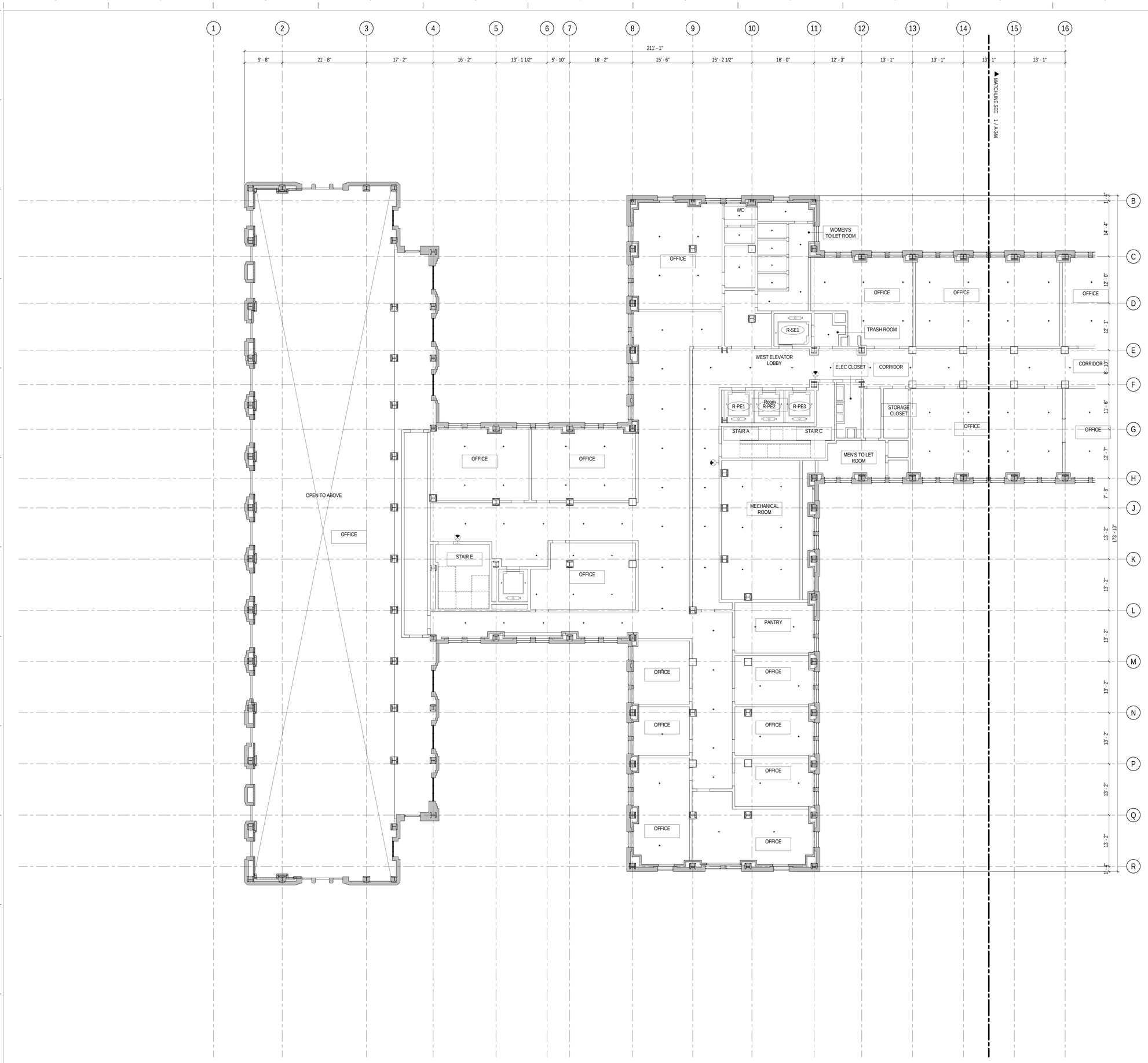

1 LEVEL 18 REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

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Date: 07/14/2017
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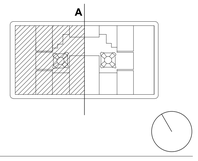
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	29 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 18 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-343.00

PAGE NUMBER

89 OF 137

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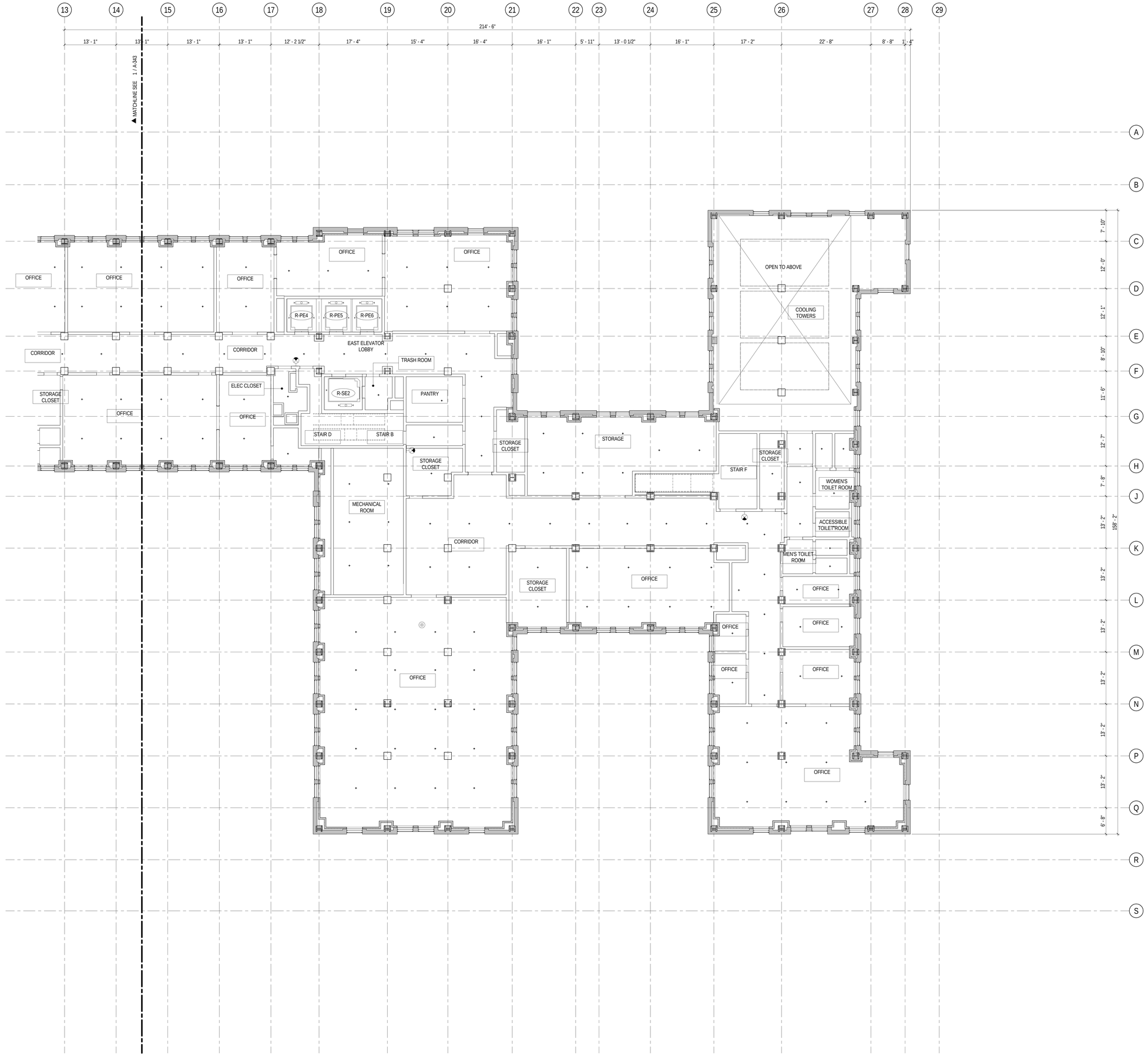
E3640652W13 Scan Code



1 LEVEL 18 REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

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VERTICAL TRANSPORTATION
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New York City Buildings
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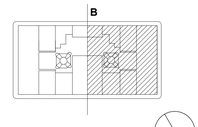
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM WEIN
No. 029325
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 18 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER
A-344.00

PAGE NUMBER
90 OF 137

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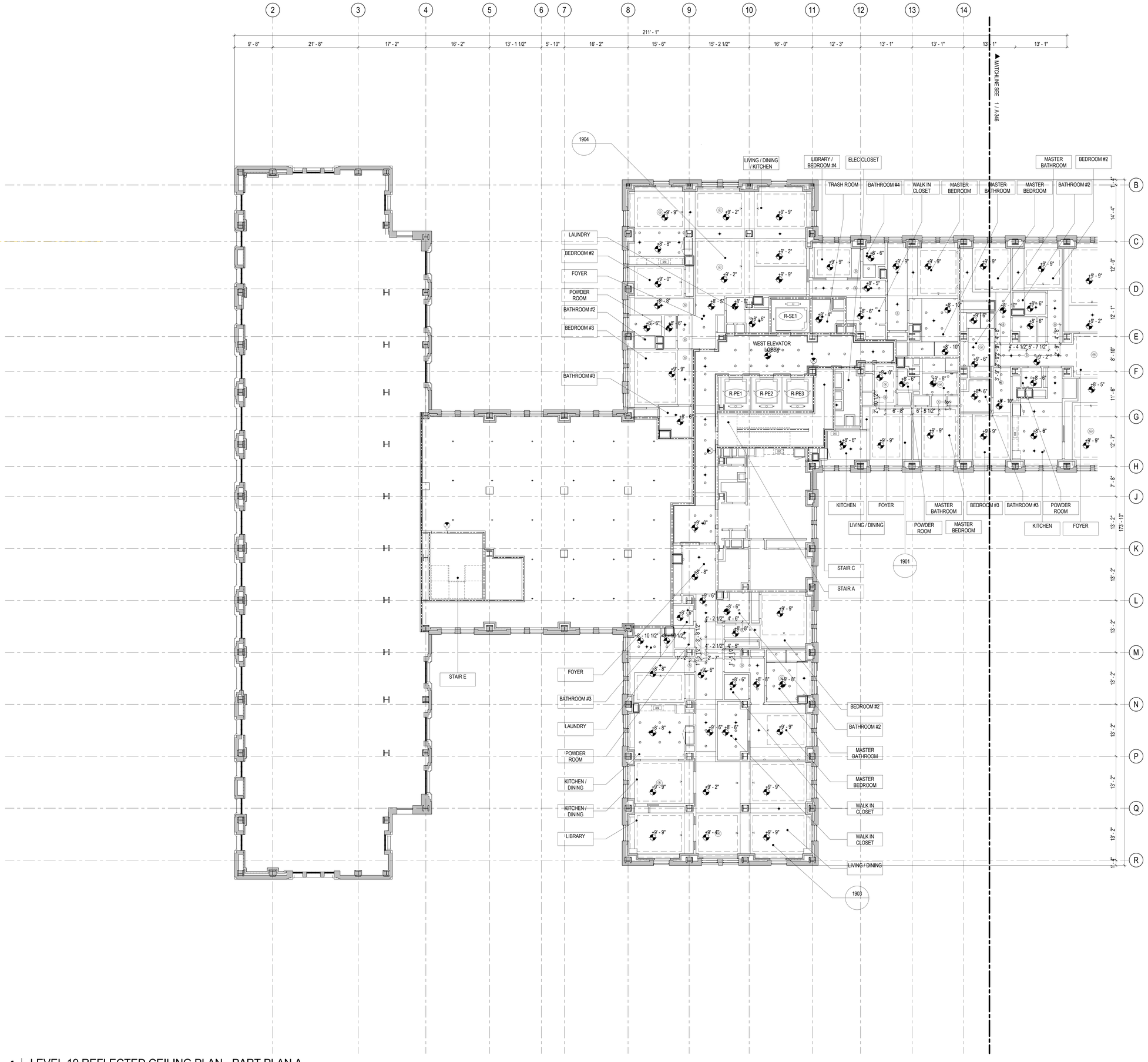

1 LEVEL 19 REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
2. ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURES U.N.O.
3. DEVICES AND LIGHT FIXTURES ARE NOT SHOWN IN ROOMS WITH EXPOSED STRUCTURE U.N.O. REFER TO MEP DRAWINGS
4. CEILING ELEVATION DIMENSIONED FROM FIN FLOOR U.N.O.
5. ALL KITCHENETTES TO HAVE EXHAUST GRILLE, TYPICAL

KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

LEGEND

- ELEV.REL.TO FIN FLR
- F1:FLOURESCENT STRIP FIXTURE
- F2:COVE LIGHT
- F3:DOWNLIGHT RECESSED CAN
- F4:PENDANT LIGHT
- F5:LIGHT SCONCE
- F6:RECESSED FLOURESCENT FIXTURE
- F7:WALL MOUNTED FLOURESCENT FIXTURE
- OS: OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S: SMOKE & CO DETECTOR
- KITCHEN HOOD

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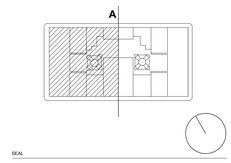
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TIRES
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	16 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 19 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER
A-345.00

PAGE NUMBER
91 OF 137

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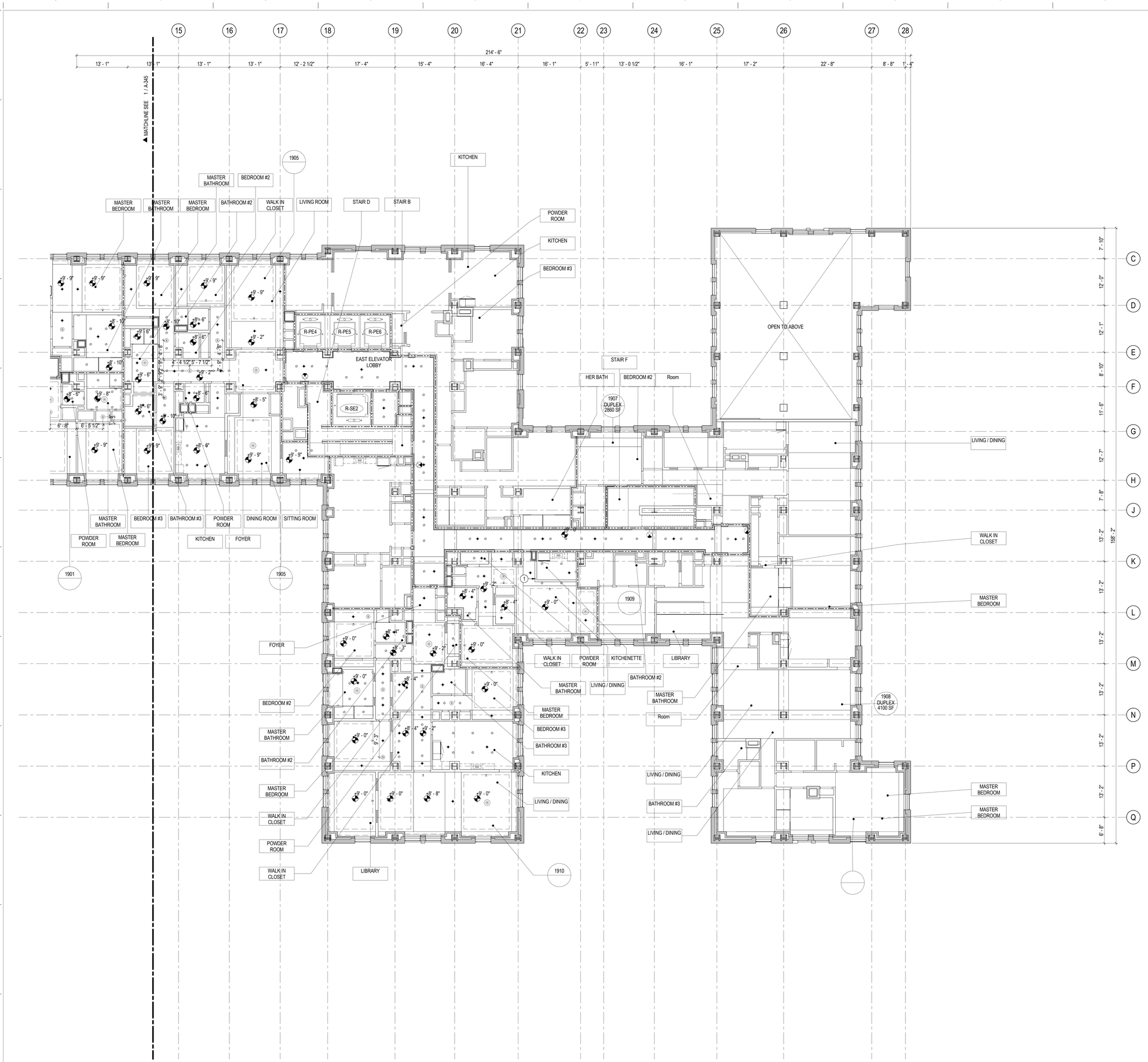
E535/M07/050 Scan Code



1 LEVEL 19 REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

SHEET NOTES

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Date: 07/14/2017
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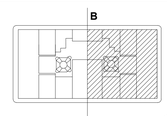

SEAL

REGISTERED ARCHITECT
KENNETH ADAM YANG
No. 023535
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 19 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER

A-346.00

PAGE NUMBER
92 OF 137

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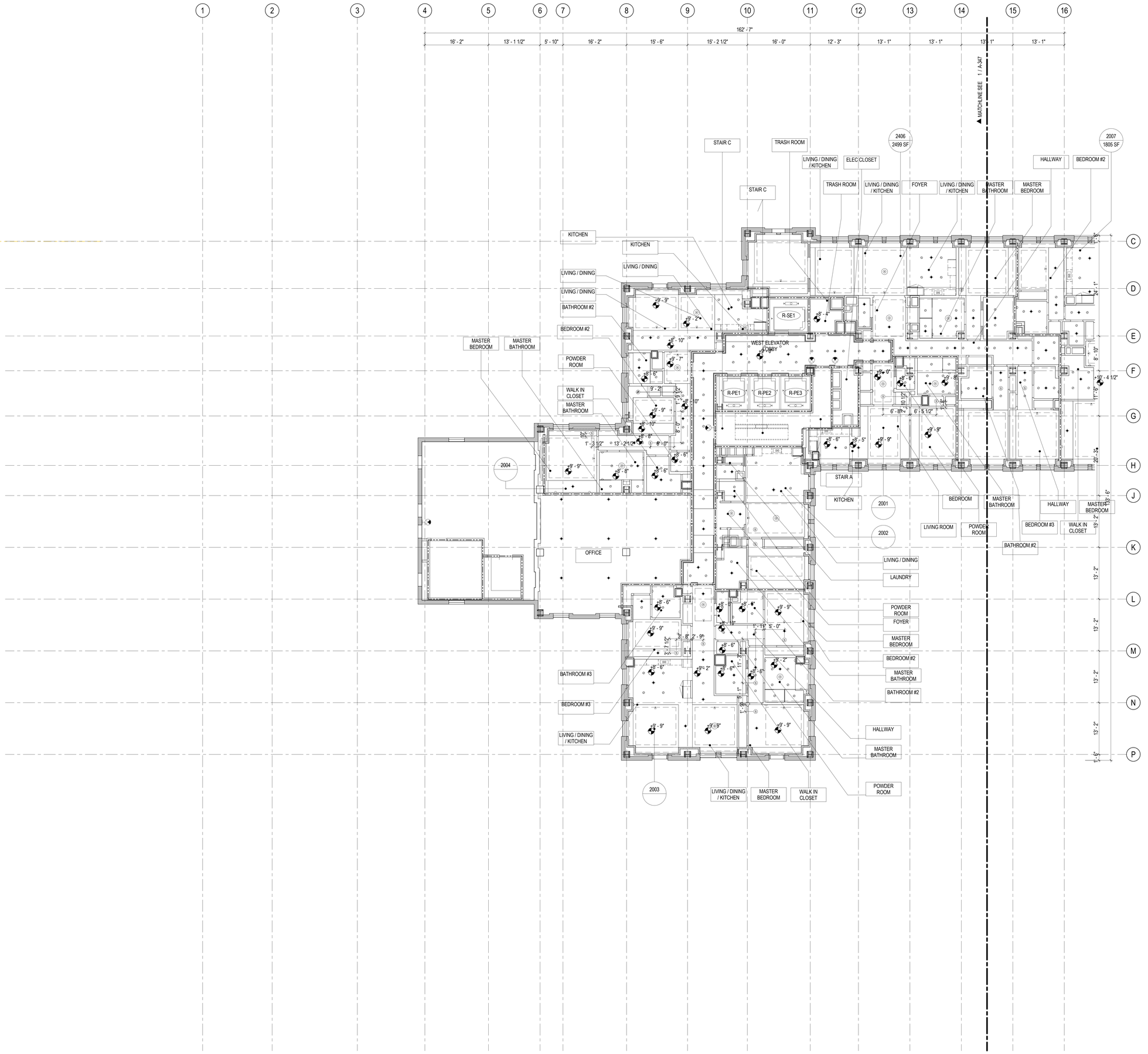

1 LEVEL 20 REFLECTED CEILING PLAN - PART PLAN A
SCALE: 1/8" = 1'-0"

SHEET NOTES

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- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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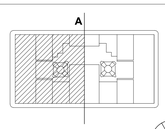
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	15 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 20 REFLECTED CEILING PLAN - PART PLAN A

B-SCAN - DRAWING NUMBER

A-347.00

PAGE NUMBER

93 OF 137

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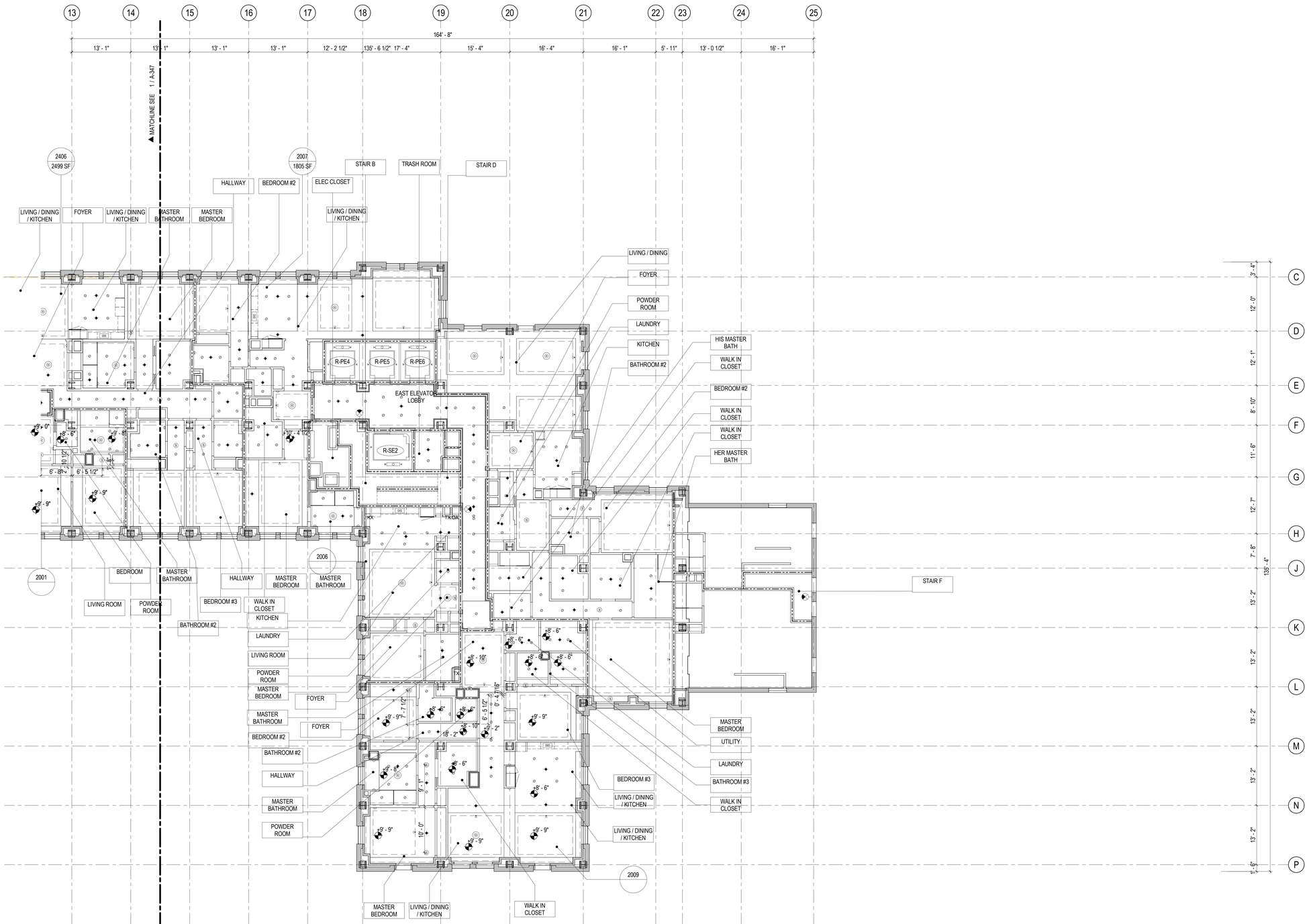

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- CEILING MOUNTED EXIT SIGN
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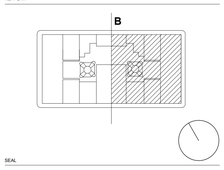

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 20 REFLECTED CEILING PLAN - PART PLAN B

B-SCAN - DRAWING NUMBER

A-348.00

PAGE NUMBER

94 OF 137

1 LEVEL 20 REFLECTED CEILING PLAN - PART PLAN B
SCALE: 1/8" = 1'-0"

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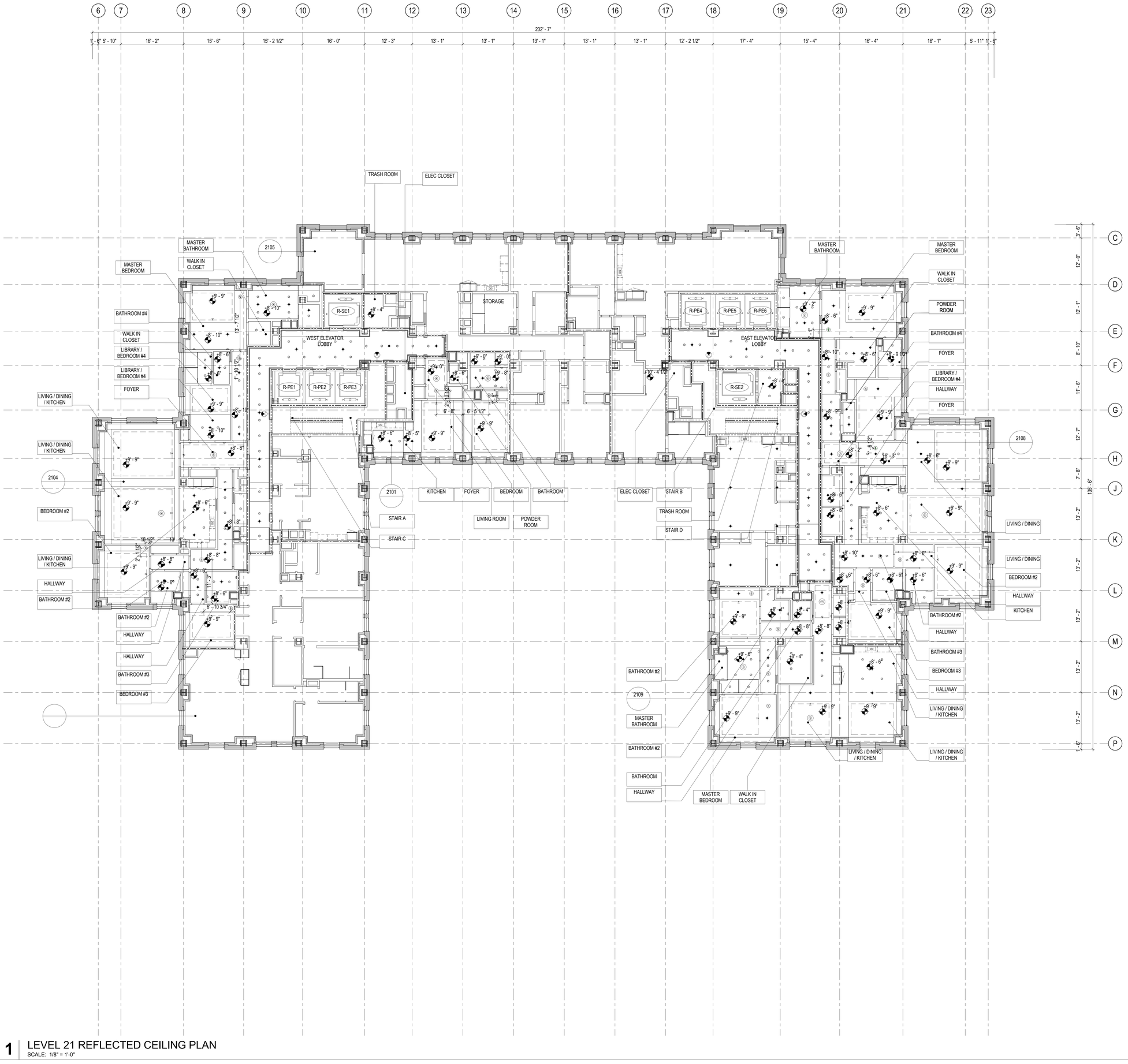

1 LEVEL 21 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

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- OS OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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Date: 07/14/2017
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KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	13 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 21 REFLECTED CEILING PLAN

B-SCAN - DRAWING NUMBER

A-349.00

PAGE NUMBER

95 OF 137

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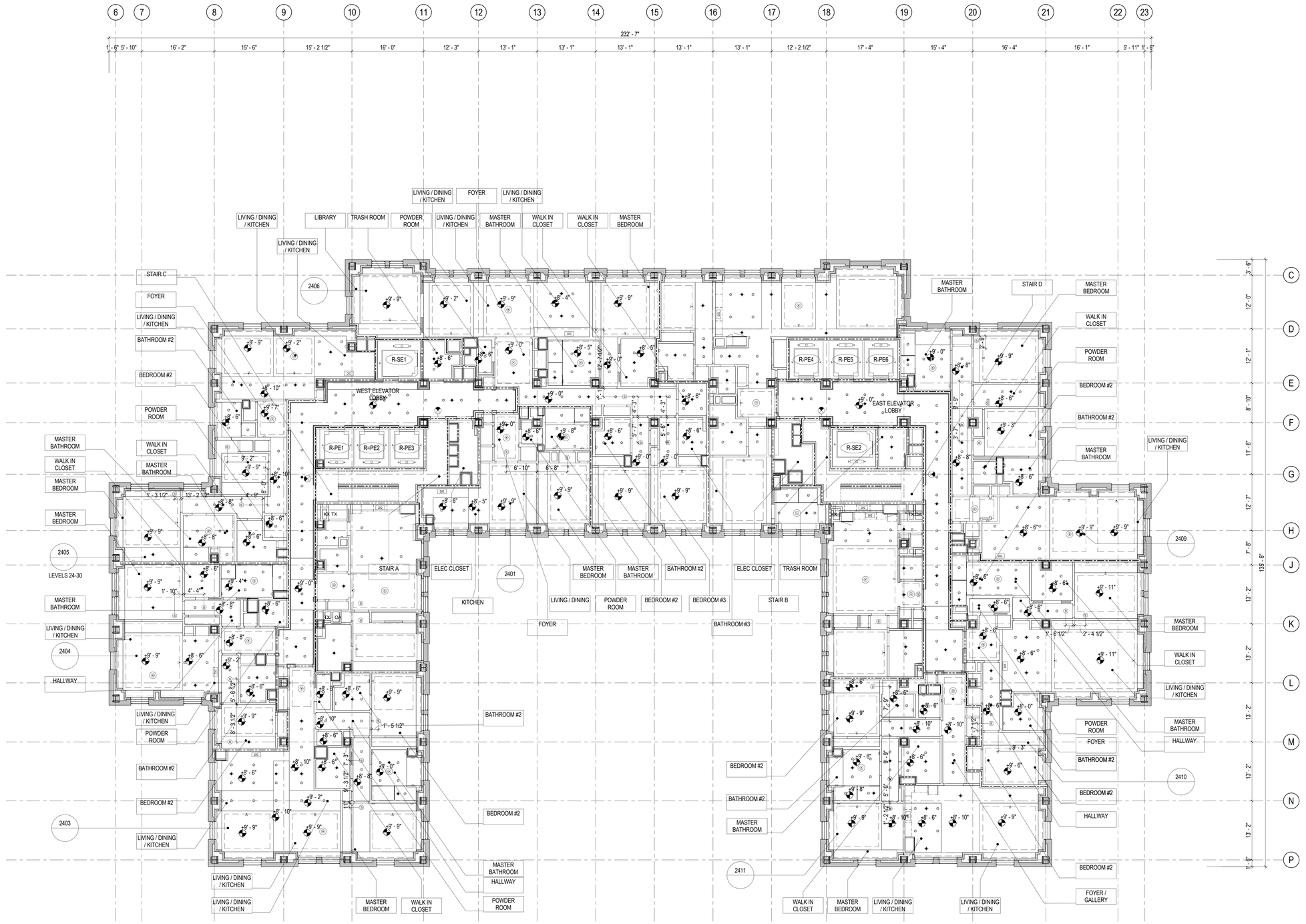

1 LEVEL 22-30 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

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KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

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SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
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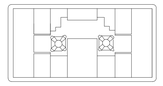
KEYPLAN



SEAL

REGISTERED ARCHITECT
KENNETH ADAM TREES
No. 023348
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
LEVEL 22-30 REFLECTED CEILING PLAN

B-SCAN - DRAWING NUMBER
A-351.00

PAGE NUMBER
96 OF 137

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DEPT OF BLDGS 321915245 Job Number
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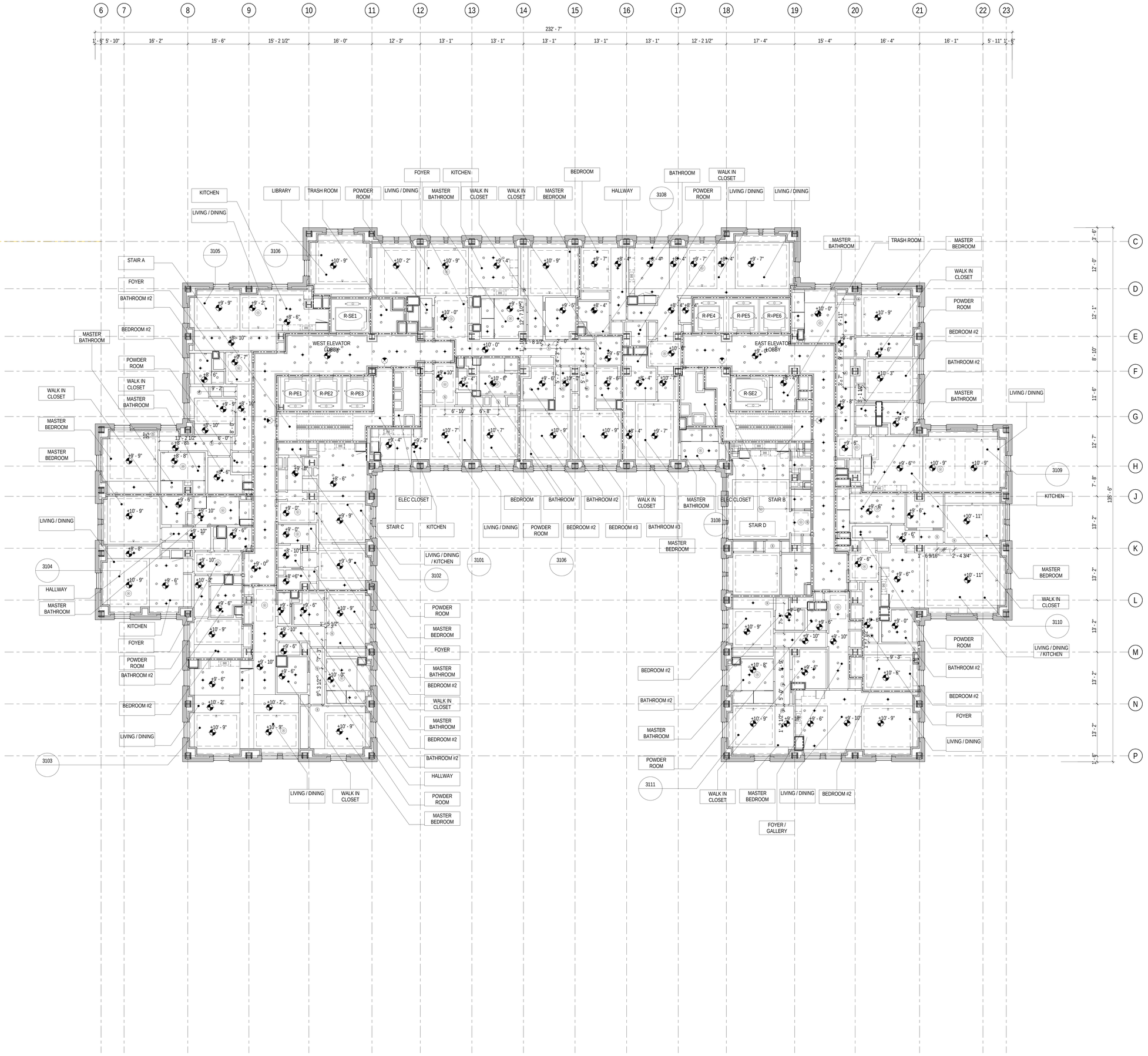

1 LEVEL 31 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

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Philip Habib & Associates

EXTERIOR WALL CONSULTANT

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SECURITY CONSULTANT

Kroll Inc.

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Under Directive 3 of 9/75
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KEYPLAN:

SEAL:

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KENNETH ADAM TAYLOR
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
3	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 31 REFLECTED CEILING PLAN

B-SCAN - DRAWING NUMBER

A-360.00

PAGE NUMBER

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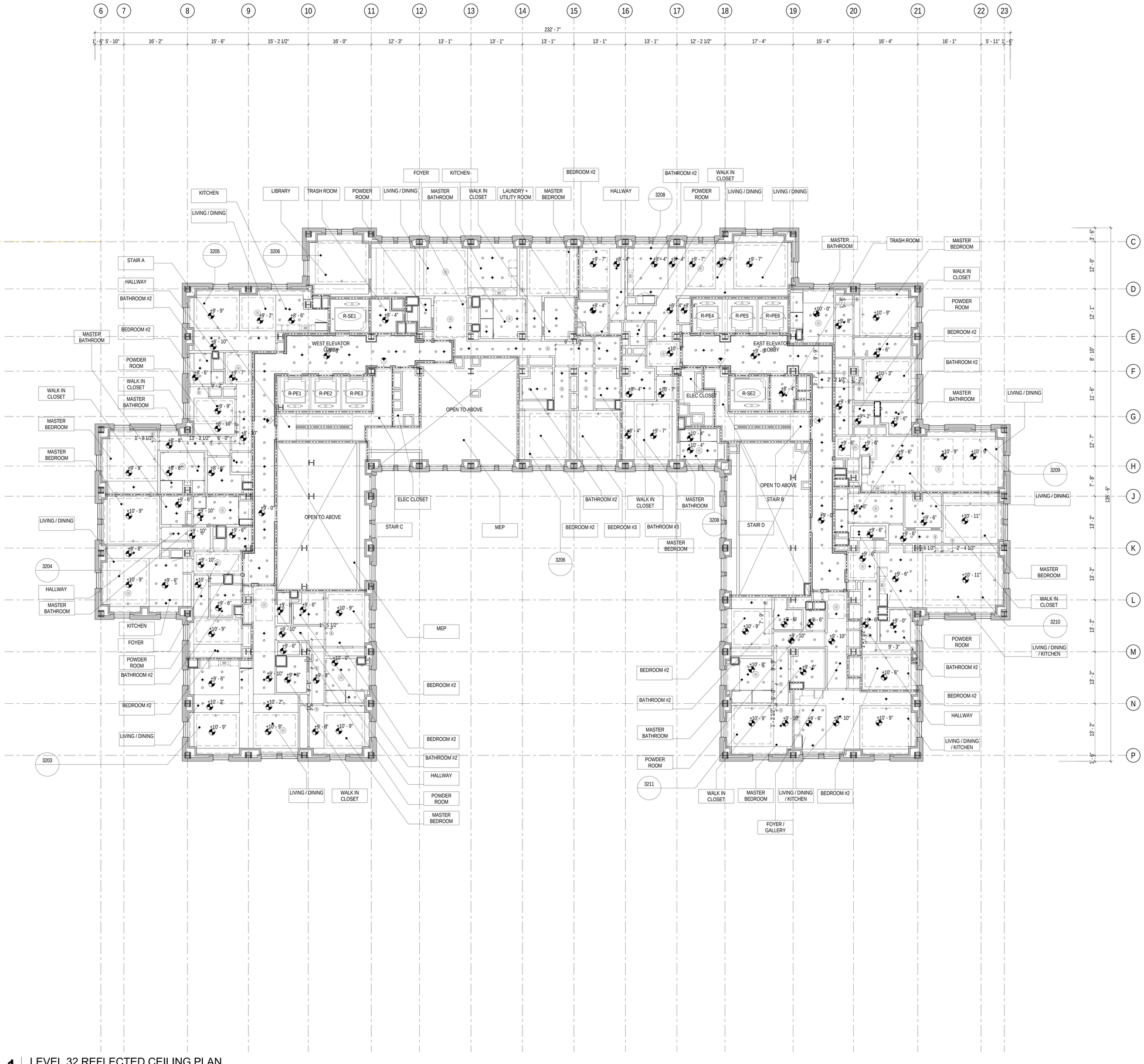

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- S — SMOKE & CO DETECTOR
- KITCHEN HOOD

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KENNETH ADAM TARR
No. 025335
STATE OF NEW YORK

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2	10 FEB 2017	ISSUED TO DOB
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LEVEL 32 REFLECTED CEILING PLAN

B-SCAN - DRAWING NUMBER

A-361.00

PAGE NUMBER

98 OF 137

1 LEVEL 32 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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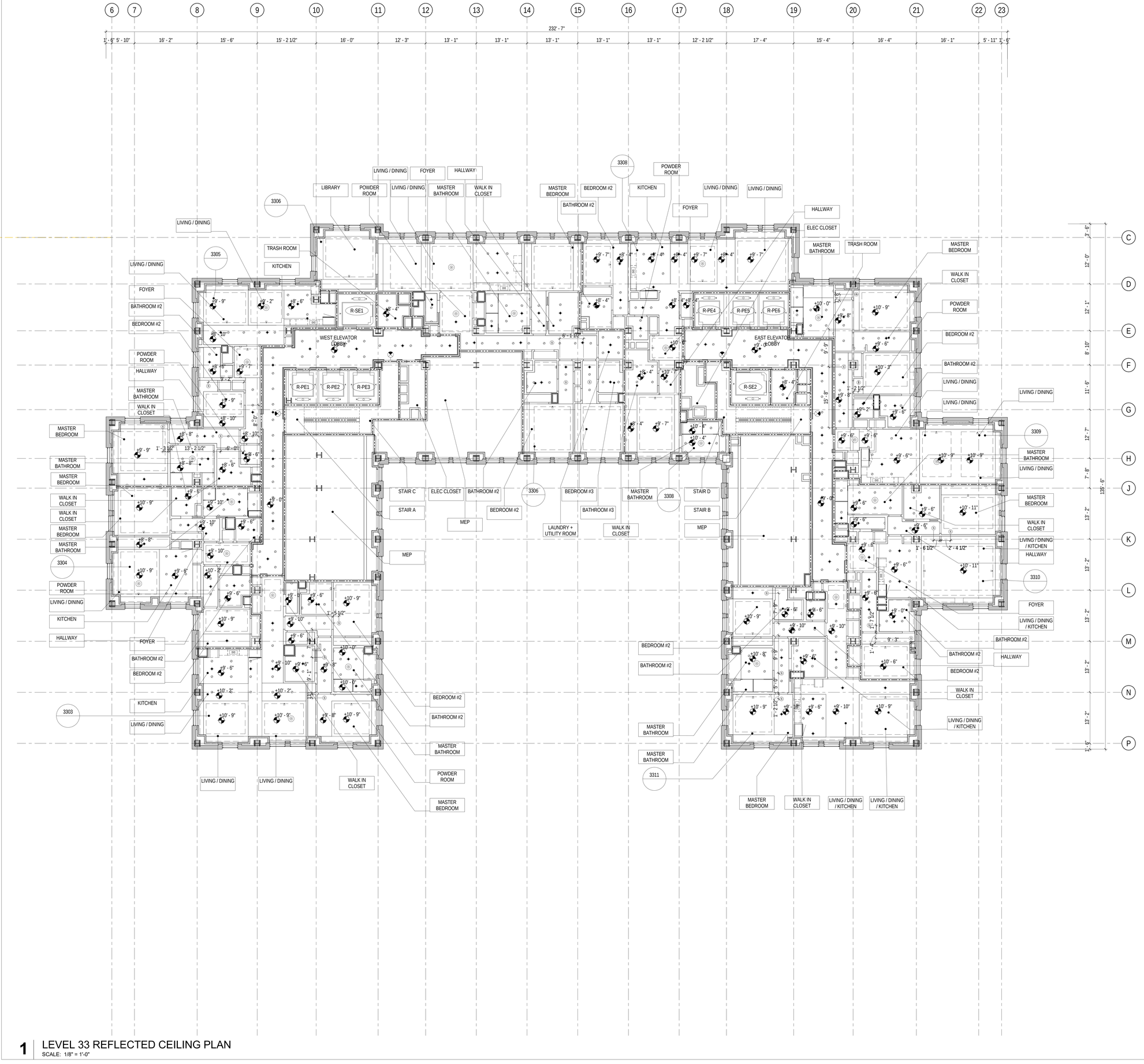

1 LEVEL 33 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
2. ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURES U.N.O.
3. DEVICES AND LIGHT FIXTURES ARE NOT SHOWN IN ROOMS WITH EXPOSED STRUCTURE U.N.O. REFER TO MEP DRAWINGS
4. CEILING ELEVATION DIMENSIONED FROM FIN FLOOR U.N.O.
5. ALL KITCHENETTES TO HAVE EXHAUST GRILLE, TYPICAL

KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

LEGEND

- ELEV.REL.TO FIN FLR
- F1:FLOURESCENT STRIP FIXTURE
- F2:COVE LIGHT
- F3:DOWNLIGHT RECESSED CAN
- F4:PENDANT LIGHT
- F5:LIGHT SCONCE
- F6:RECESSED FLOURESCENT FIXTURE
- F7:WALL MOUNTED FLOURESCENT FIXTURE
- OS OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR
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LEVEL 33 REFLECTED CEILING PLAN

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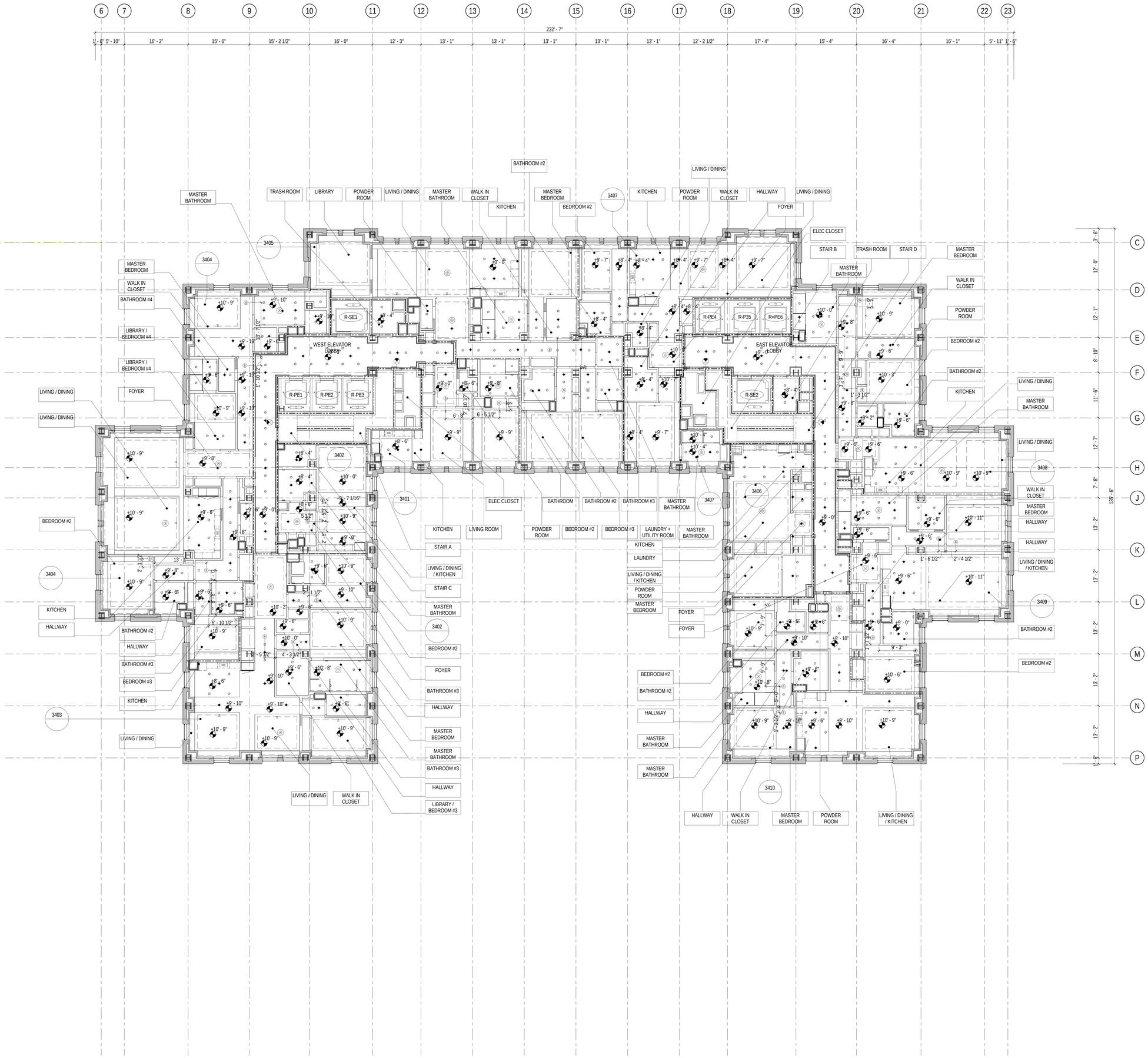

1 LEVEL 34-36 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
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KEYED NOTES

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- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
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LEVEL 34-36 REFLECTED CEILING PLAN

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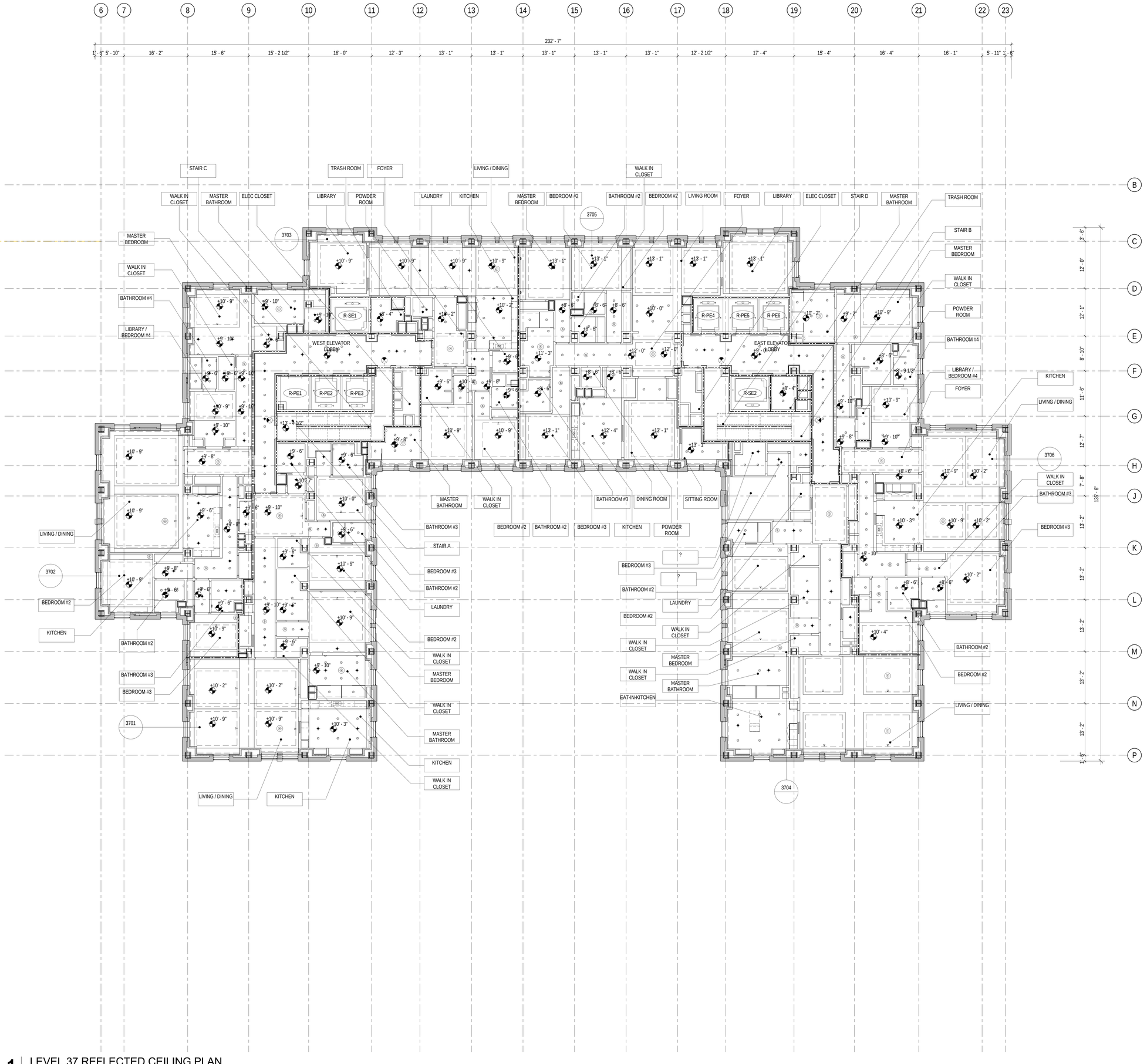

1 LEVEL 37 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

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- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
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- WALL MOUNTED EXIT SIGN
- S: SMOKE & CO DETECTOR
- KITCHEN HOOD

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LEVEL 37 REFLECTED CEILING PLAN

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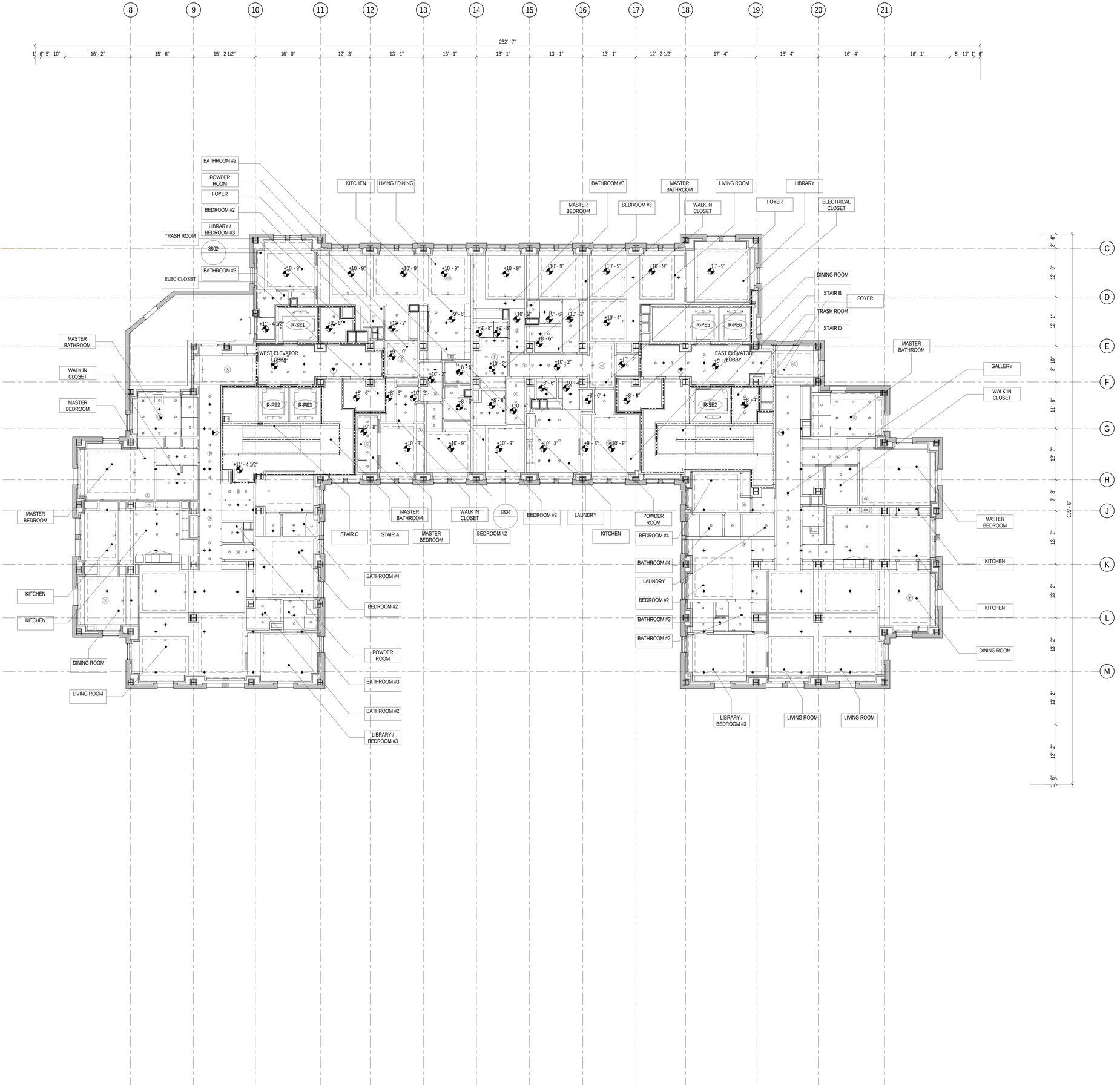

1 LEVEL 38 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

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- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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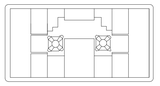

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LEVEL 38 REFLECTED CEILING PLAN

B-SCAN - DRAWING NUMBER

A-367.00

PAGE NUMBER

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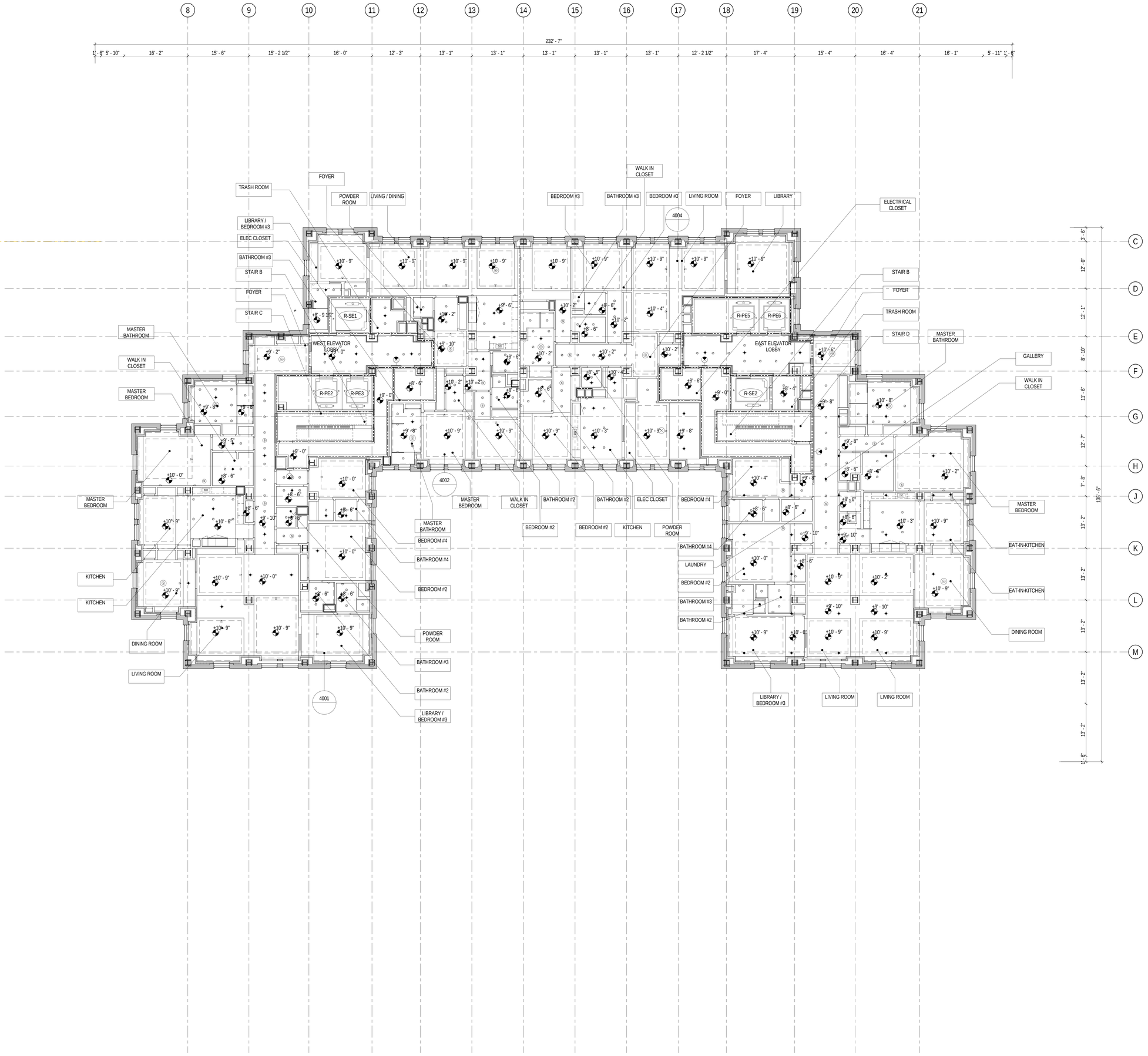

1 LEVEL 39-40 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
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3. DEVICES AND LIGHT FIXTURES ARE NOT SHOWN IN ROOMS WITH EXPOSED STRUCTURE U.N.O. REFER TO MEP DRAWINGS
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KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

LEGEND

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- F4:PENDANT LIGHT
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- OS OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S SMOKE & CO DETECTOR
- KITCHEN HOOD

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LEVEL 39-40 REFLECTED CEILING PLAN

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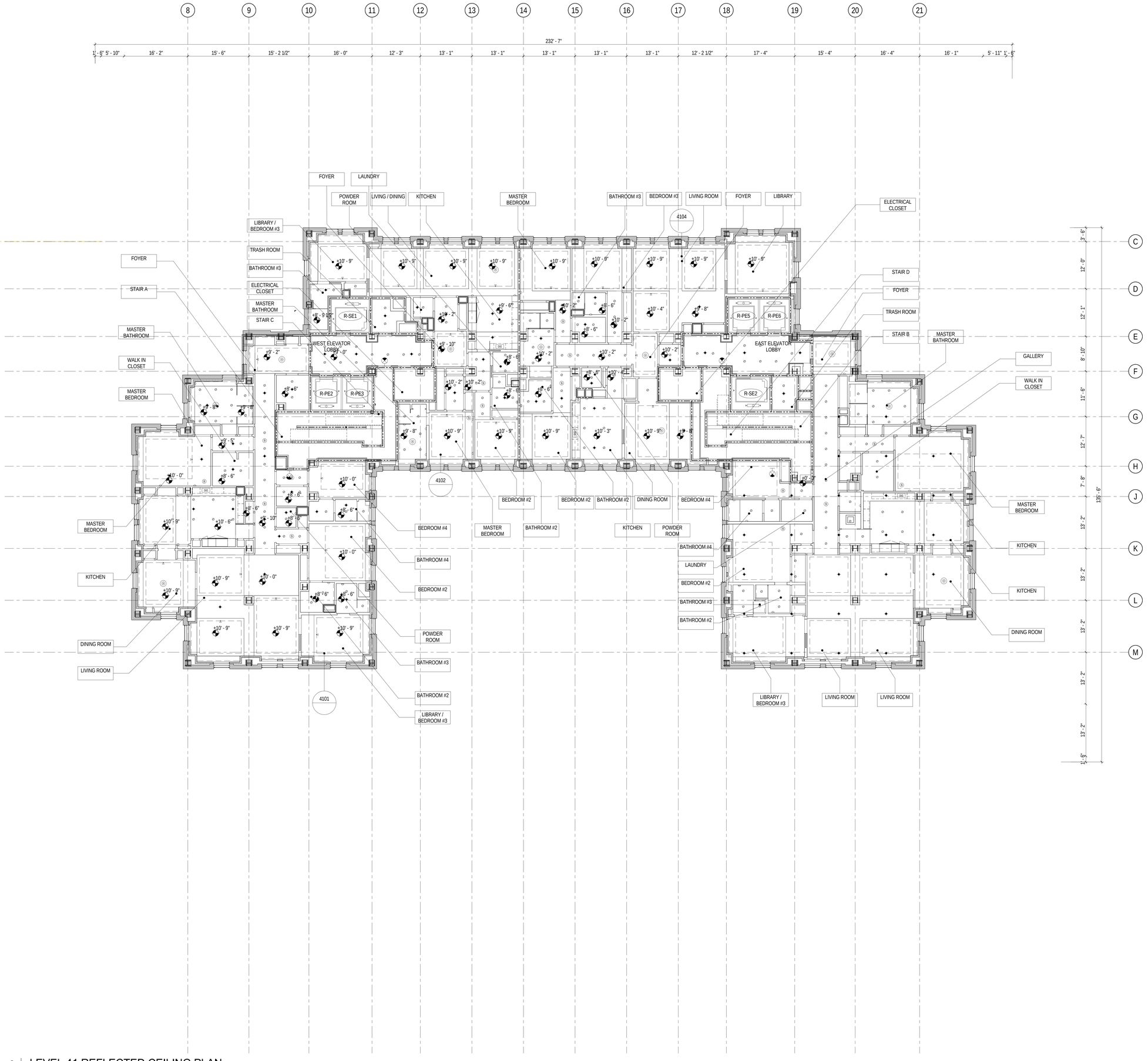

1 LEVEL 41 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
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KEYED NOTES

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- F6:RECESSED FLOURESCENT FIXTURE
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LEVEL 41 REFLECTED CEILING PLAN

B-SCAN - DRAWING NUMBER

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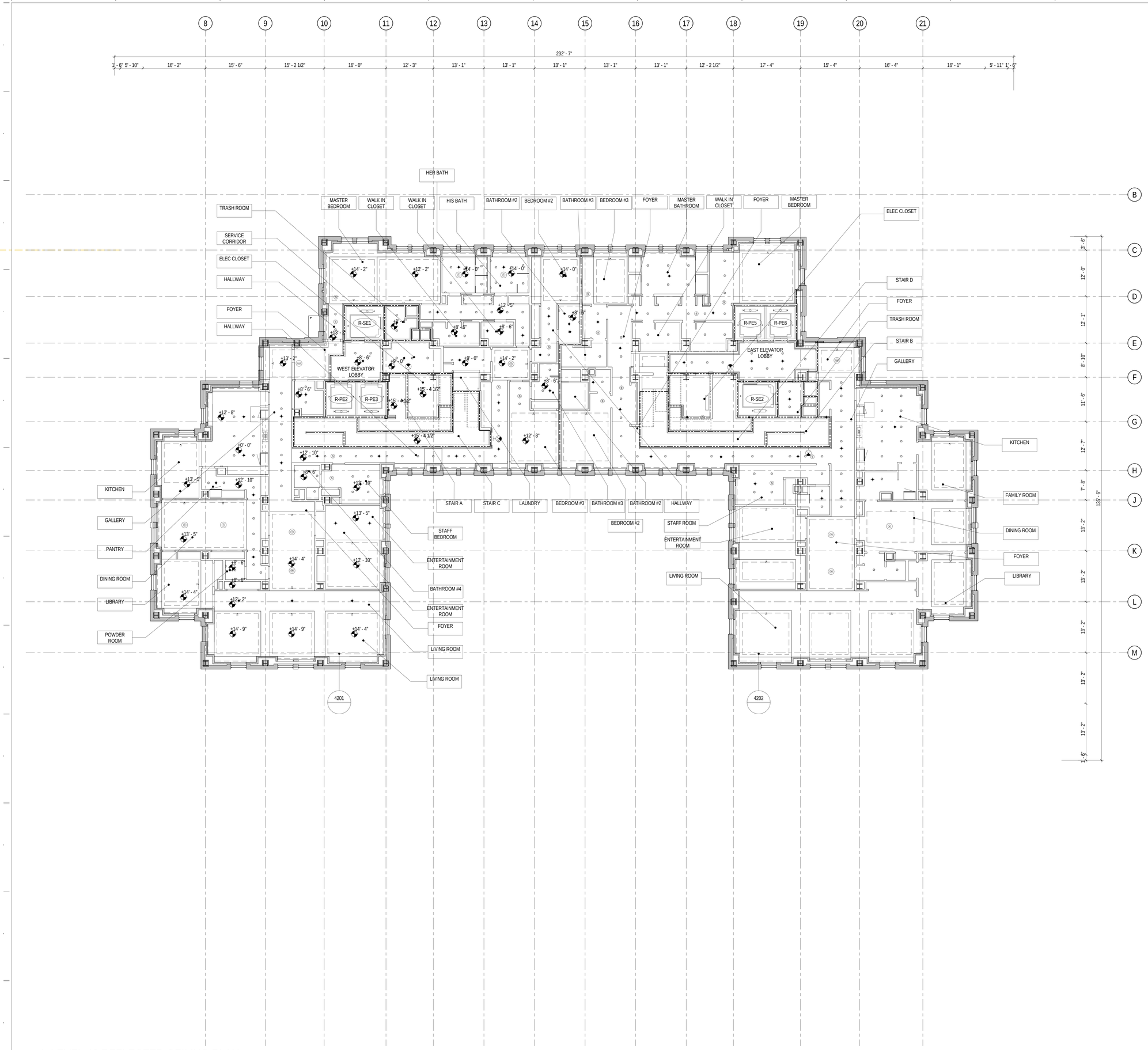

1 LEVEL 42 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

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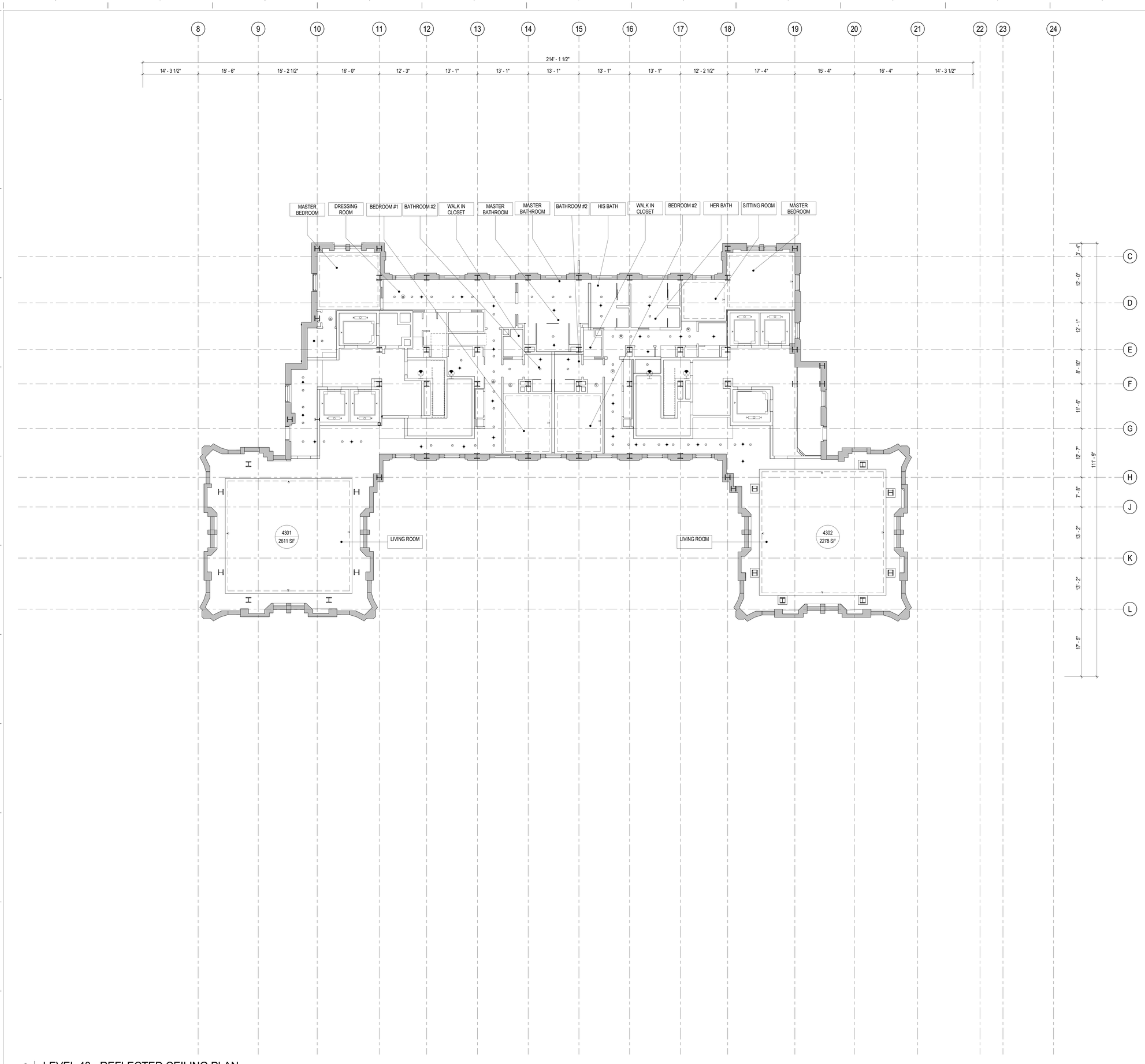

1 LEVEL 43 - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
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- WALL MOUNTED EXIT SIGN
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LEVEL 43 REFLECTED CEILING PLAN

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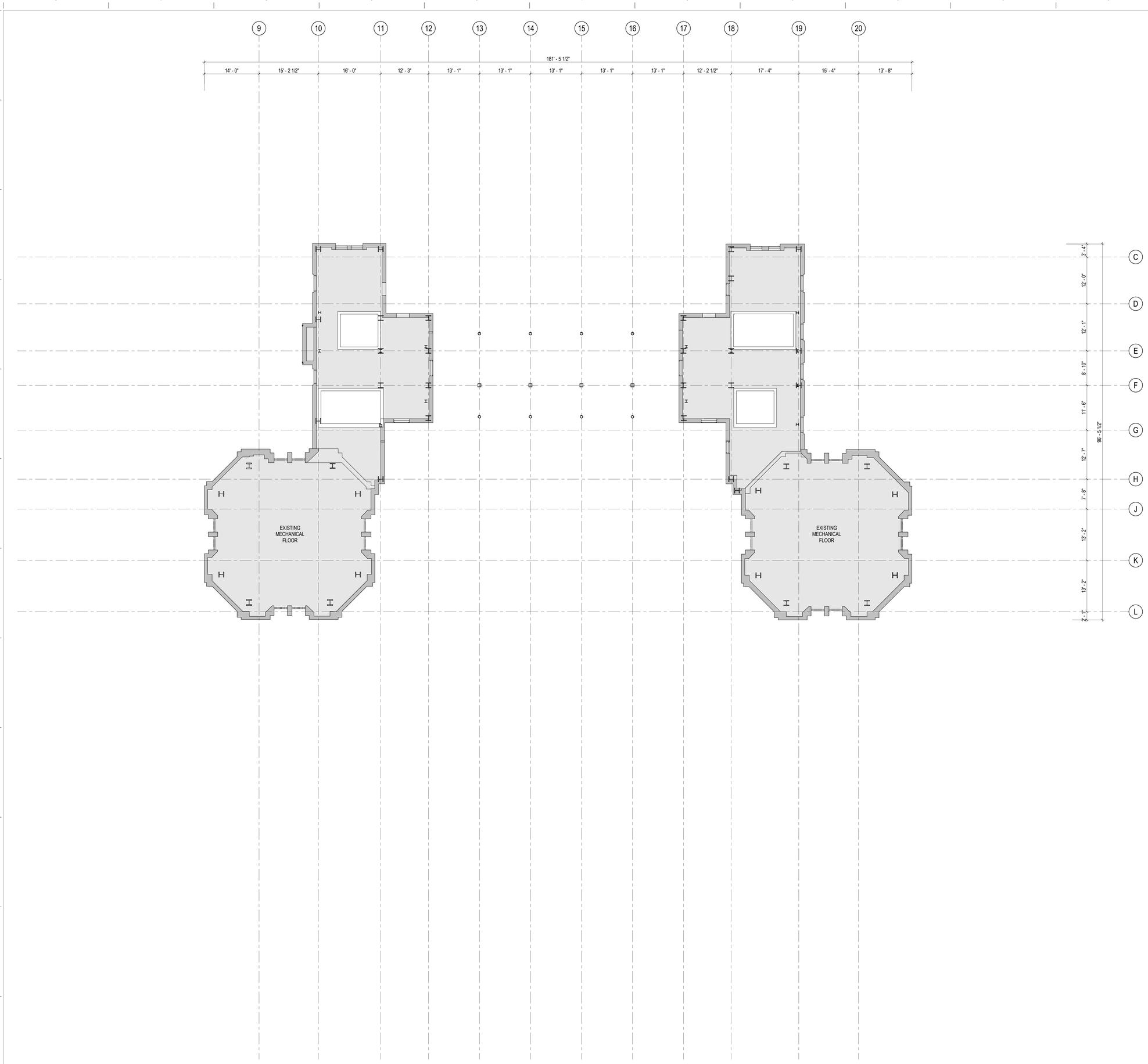

SHEET NOTES

1. REFER TO G-003 FOR MOUNTING HEIGHTS
2. REFER TO A-804 FOR CEILING DETAILS

GENERAL NOTES

1. ALL FIXTURES & DEVICES LOCATED WITHIN CEILING GRID TO BE CENTERED ON TILE U.N.O.
2. ALL DIMENSIONS ARE TO CENTERLINE OF FIXTURES U.N.O.
3. DEVICES AND LIGHT FIXTURES ARE NOT SHOWN IN ROOMS WITH EXPOSED STRUCTURE U.N.O. REFER TO MEP DRAWINGS
4. CEILING ELEVATION DIMENSIONED FROM FIN FLOOR U.N.O.
5. ALL KITCHENETTES TO HAVE EXHAUST GRILLE, TYPICAL

KEYED NOTES

1. 1'-0" DROPPED SOFFIT PROVIDED

LEGEND

- ELEV.REL.TO FIN FLR
- F1:FLOURESCENT STRIP FIXTURE
- F2:COVE LIGHT
- F3:DOWNLIGHT RECESSED CAN
- F4:PENDANT LIGHT
- F5:LIGHT SCONCE
- F6:RECESSED FLOURESCENT FIXTURE
- F7:WALL MOUNTED FLOURESCENT FIXTURE
- OS — OCCUPANCY SENSOR
- SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- S — SMOKE & CO DETECTOR
- KITCHEN HOOD

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EXTERIOR WALL CONSULTANT

WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA

APPROVED
Under Directive 3 of 1975

Date: 07/14/2017

NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TARR
No. 025335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	20 JUN 2017	ISSUED TO DOB

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LEVEL 44 REFLECTED CEILING PLAN

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PAGE NUMBER

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1 LEVEL 44 - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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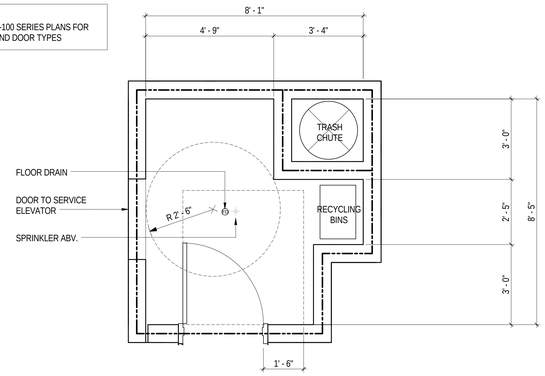
NOTE:
REFER TO A-100 SERIES PLANS FOR PARTITION AND DOOR TYPES



4 ENLARGED REFUSE ROOM
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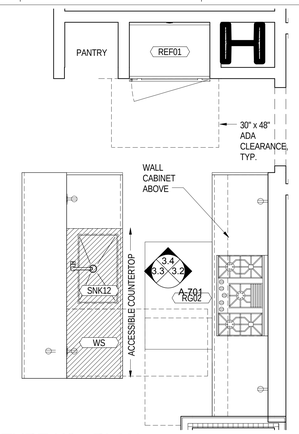

3.1 KITCHEN TYPE K3 - PLAN
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K3

TYPE	LEVELS	UNIT	WIDTH	DEPTH
K3	22 - 33	04	14' - 6"	8' - 10"

NOTE:
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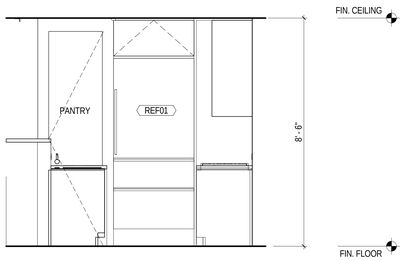
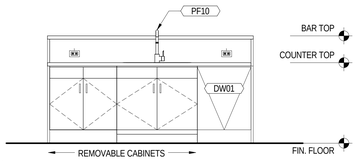
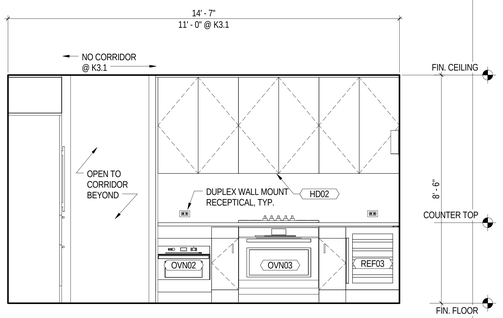
2. ADAPTABLE TO ACCESSIBLE WORK SURFACES & SINKS: PORTION OF THE COUNTER TO BE LOWERED TO BE BETWEEN 30" MIN. AND 34" MAX. WITH NO CABINET BELOW.
3. REFER TO WINDOW SCHEDULE FOR EXTERIOR WINDOW OPENINGS.



3.4 KITCHEN TYPE K3 - ELEVATION 3
SCALE: 1/2" = 1'-0"



3.3 KITCHEN TYPE K3 - ELEVATION 2
SCALE: 1/2" = 1'-0"



3.2 KITCHEN TYPE K3 - ELEVATION 1
SCALE: 1/2" = 1'-0"

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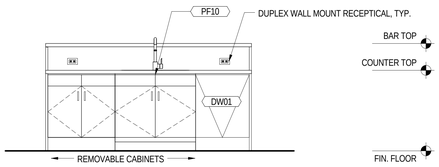
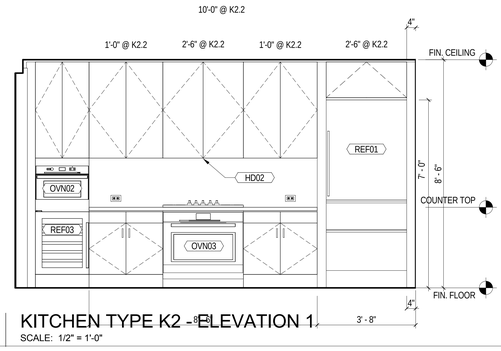
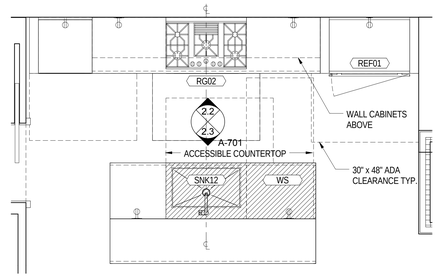


2.3 KITCHEN TYPE K2 - ELEVATION 2
SCALE: 1/2" = 1'-0"



2.2 KITCHEN TYPE K2 - ELEVATION 1
SCALE: 1/2" = 1'-0"



2.1 KITCHEN TYPE K2 - PLAN
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K2

TYPE	LEVELS	UNIT	WIDTH	DEPTH
K2	20, 22 - 30	02	14' - 9"	8' - 9"
K2 SIM	31	02	14' - 6"	8' - 10"
K2 SIM	20, 22 - 33	03	14' - 6"	8' - 10"
K2 SIM	21, 34 - 36	03	14' - 6"	8' - 10"
K2 MIR	20 - 31, 34 - 36	07	14' - 6"	8' - 10"

NOTE:
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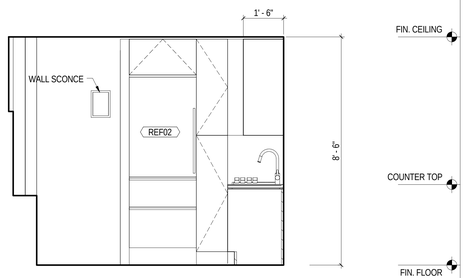
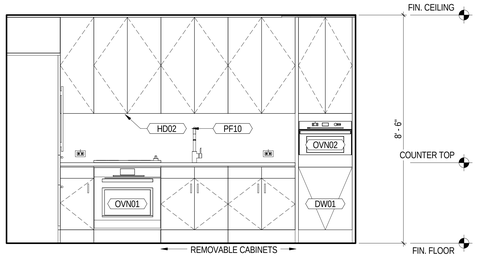
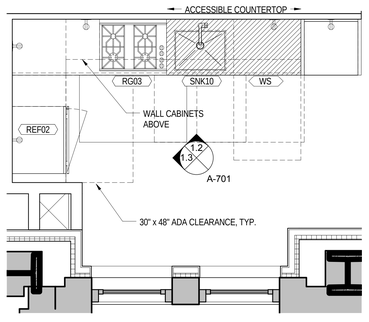
3. REFER TO WINDOW SCHEDULE FOR EXTERIOR WINDOW OPENINGS.



1.3 KITCHEN TYPE K1 - ELEVATION 2
SCALE: 1/2" = 1'-0"



1.2 KITCHEN TYPE K1 - ELEVATION 1
SCALE: 1/2" = 1'-0"



1.1 KITCHEN TYPE K1 - PLAN
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K1

TYPE	LEVELS	UNIT	WIDTH	DEPTH
K1	20 - 31, 34 - 36	01	13' - 1"	9' - 4"

NOTE:
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Azmi Zahed-Atkins, RA
Buildings
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL:

REGISTERED ARCHITECT
KENNETH ADAM PEH
No. 023935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

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ENLARGED PLANS & ELEVATIONS

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GENERAL NOTE:

1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.

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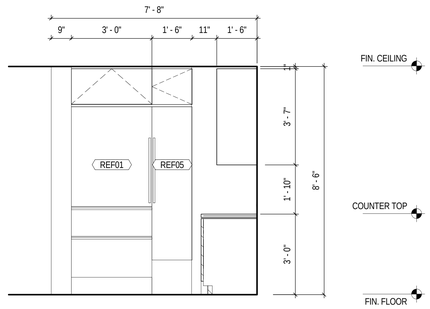
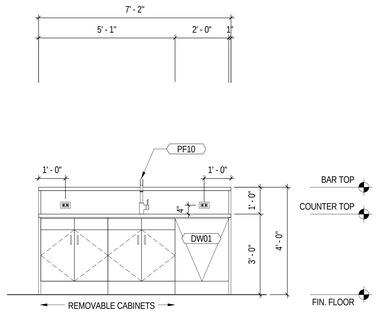
3. REFER TO WINDOW SCHEDULE FOR EXTERIOR WINDOW OPENINGS.

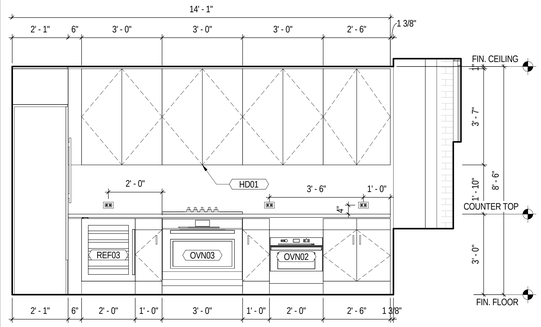
4. ALL COUNTER & WALL ELECTRICAL OUTLETS SHALL NOT BE LOWER THAN 15" OR HIGHER THAN 48" ABOVE THE FINISH FLOOR.



3.3 ELEVATION
SCALE: 1/2" = 1'-0"



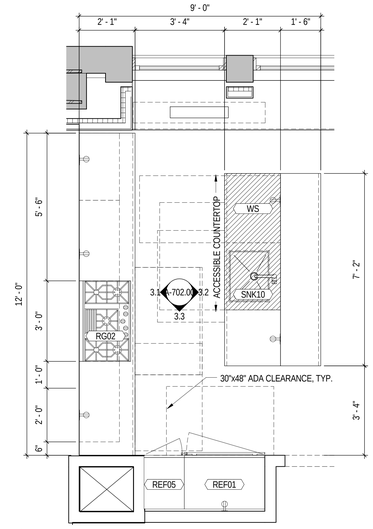
3.2 ELEVATION
SCALE: 1/2" = 1'-0"



3.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K6

TYPE	LEVELS	WIDTH	DEPTH
K6	13-15, 20 - 36	9'-0"	12'-0"



3 PLAN
SCALE: 1/2" = 1'-0"

2.3 ELEVATION
SCALE: 1/2" = 1'-0"

2.2 ELEVATION
SCALE: 1/2" = 1'-0"

2.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K5

TYPE	LEVELS	WIDTH	DEPTH
K5	20 - 36	12'-7"	12'-2"

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

1.3 ELEVATION
SCALE: 1/2" = 1'-0"

1.2 ELEVATION
SCALE: 1/2" = 1'-0"

1.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K4

TYPE	LEVELS	WIDTH	DEPTH
K4	20, 22 - 33	13'-4"	10' - 4"

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

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GENERAL NOTE:

1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.

2. ▨ ADAPTABLE WORK SURFACE & SINK: ACCESSIBLE PORTION OF THE COUNTERTOP TO BE LOWERED TO BE BETWEEN MINIMUM 29" AND MAXIMUM 34". CABINETS BELOW TO BE REMOVED.

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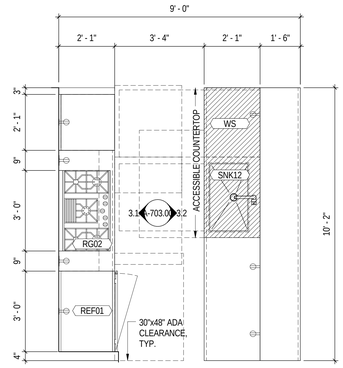
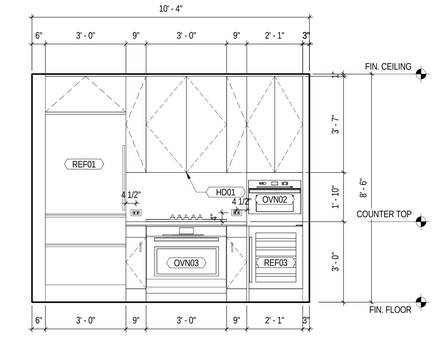
KITCHEN - TYPE K9

TYPE	LEVELS	WIDTH	DEPTH
K9	13 - 17, 22 - 36	9' - 0"	10' - 2"



3 | PLAN
SCALE: 1/2" = 1'-0"



3.1 | ELEVATION
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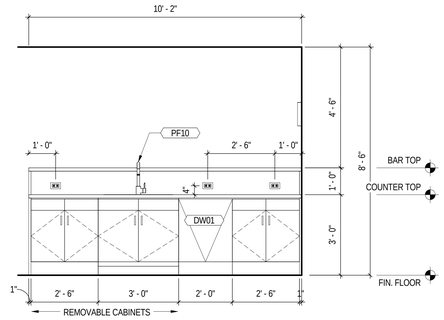
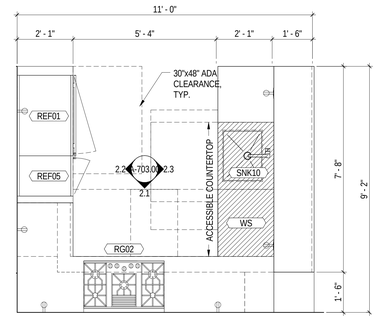


3.2 | ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K8

TYPE	LEVELS	WIDTH	DEPTH
K8	13 - 17, 22 - 36	11' - 0"	9' - 2"



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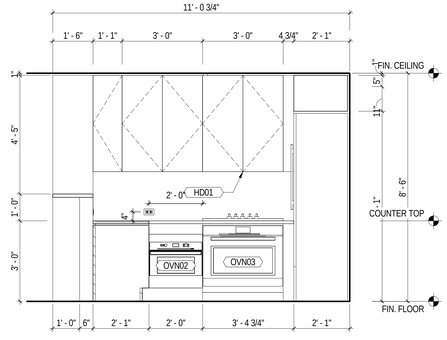

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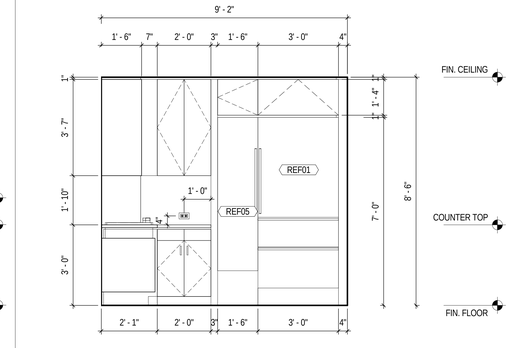

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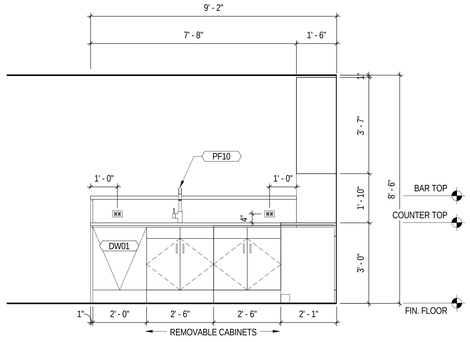
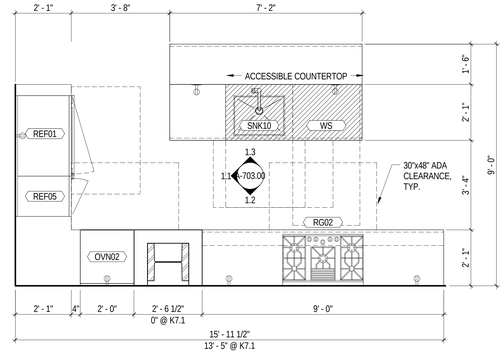


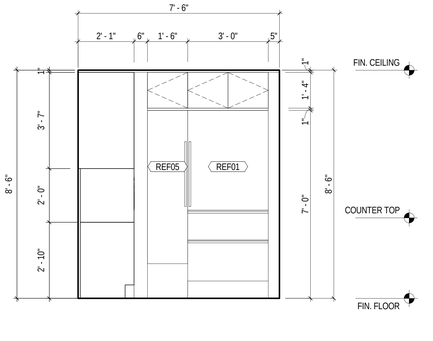
2.3 | ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K7

TYPE	LEVELS	WIDTH	DEPTH
K7	16, 17, 19	15'-11 1/2"	9'-0"
K7.1	20	13'-5"	9'-0"

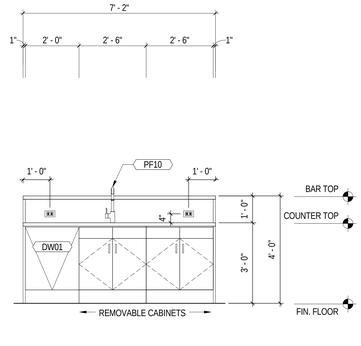


1 | PLAN
SCALE: 1/2" = 1'-0"



1.1 | ELEVATION
SCALE: 1/2" = 1'-0"

1.2 | ELEVATION
SCALE: 1/2" = 1'-0"



1.3 | ELEVATION
SCALE: 1/2" = 1'-0"

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Kroll Inc.

Azmi Zahed-Atkins, RA
Not Building
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM ATKINS
No. 023935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION

DRAWING TITLE
ENLARGED PLANS & ELEVATIONS - KITCHENS

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GENERAL NOTE:

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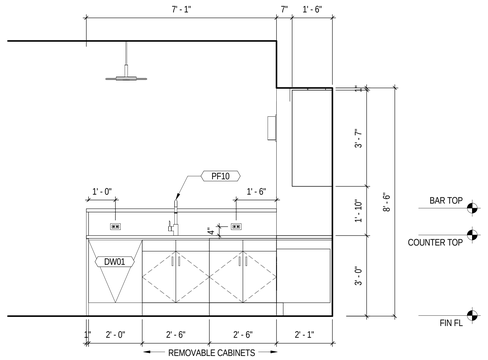
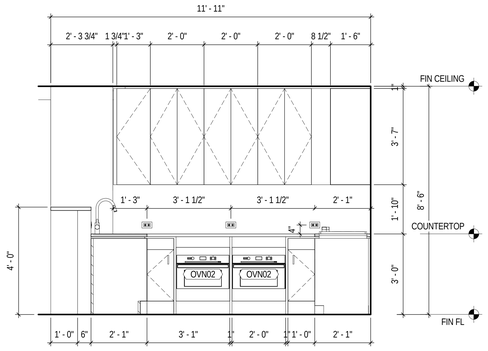
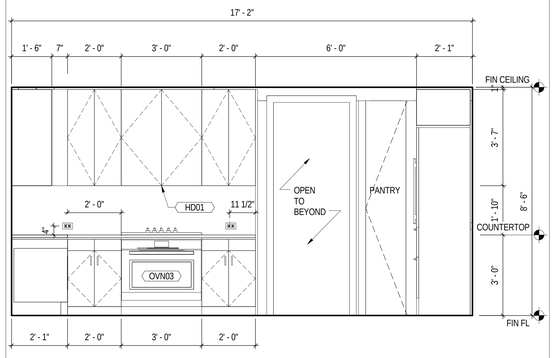


3.3 ELEVATION
SCALE: 1/2" = 1'-0"



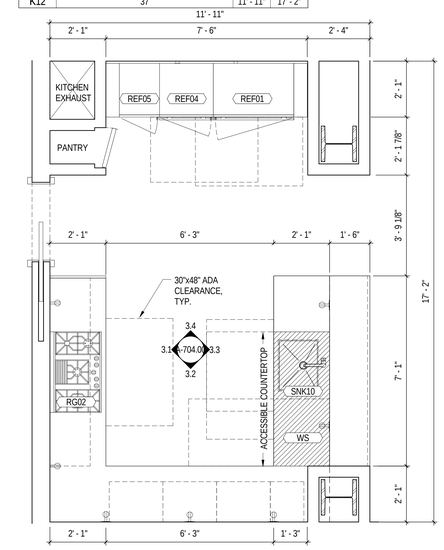
3.2 ELEVATION
SCALE: 1/2" = 1'-0"



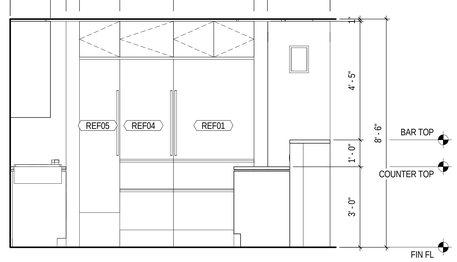
3.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K12

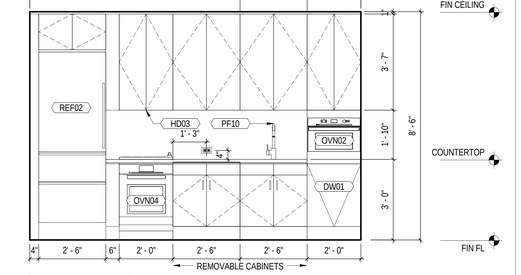
TYPE	LEVELS	WIDTH	DEPTH
K12	37	11' - 11"	17' - 2"



3 PLAN
SCALE: 1/2" = 1'-0"



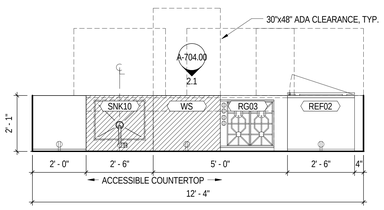
3.4 ELEVATION
SCALE: 1/2" = 1'-0"



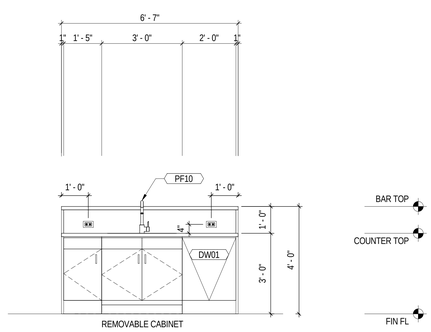
2.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K11

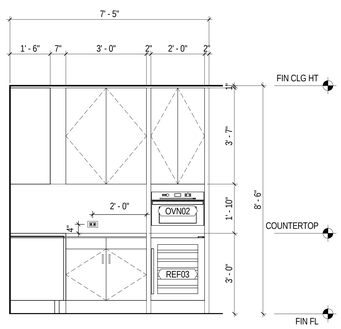
TYPE	LEVELS	WIDTH	DEPTH
K11	13 - 15, 34 - 36	12' - 4"	2' - 1"



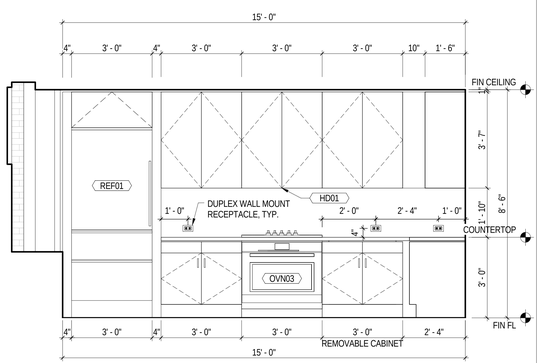
2 PLAN
SCALE: 1/2" = 1'-0"



1.3 ELEVATION
SCALE: 1/2" = 1'-0"



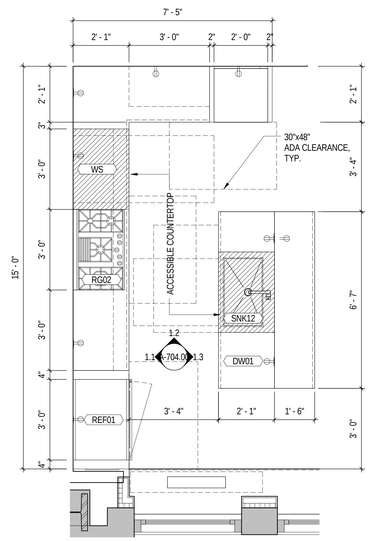
1.2 ELEVATION
SCALE: 1/2" = 1'-0"



1.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K10

TYPE	LEVELS	WIDTH	DEPTH
K10	22 - 36	8' - 11"	15' - 0"



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

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Date: 07/24/2017
NYC Development Hub

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KENNETH ADAM TABER
No. 023325
STATE OF NEW YORK

NO.	DATE	DESCRIPTION

DRAWING TITLE
ENLARGED PLANS & ELEVATIONS - KITCHENS

B-SCAN - DRAWING NUMBER
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PAGE NUMBER
111 OF 137

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E390606175 Scan Code

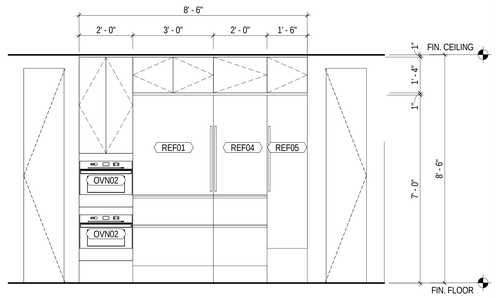
GENERAL NOTE:

1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.

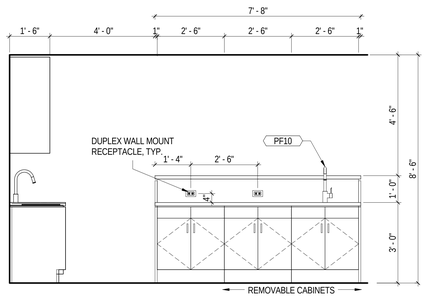
2. ADAPTABLE WORK SURFACE & SINK: ACCESSIBLE PORTION OF THE COUNTERTOP TO BE LOWERED TO BE BETWEEN MINIMUM 29" AND MAXIMUM 34". CABINETS BELOW TO BE REMOVED.

3. REFER TO WINDOW SCHEDULE FOR EXTERIOR WINDOW OPENINGS.

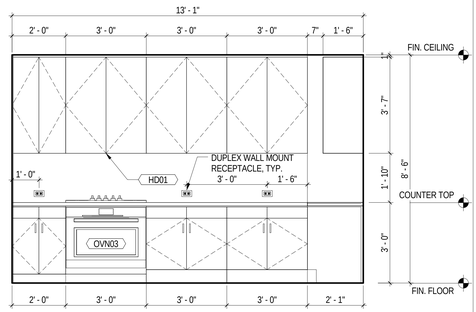
4. ALL COUNTER & WALL ELECTRICAL OUTLETS SHALL NOT BE LOWER THAN 15" OR HIGHER THAN 48" ABOVE THE FINISH FLOOR.



3.3 ELEVATION
SCALE: 1/2" = 1'-0"



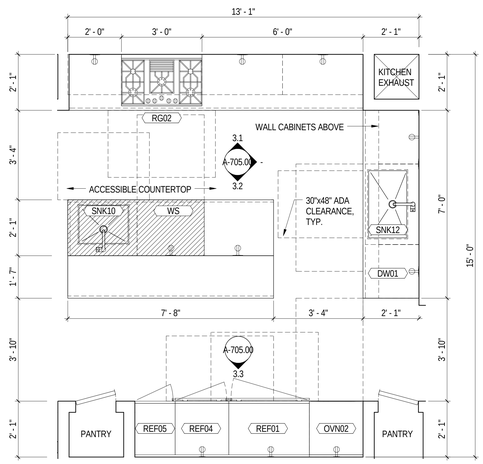
3.2 ELEVATION
SCALE: 1/2" = 1'-0"



3.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K15

TYPE	LEVELS	WIDTH	DEPTH
K15	40, 41	13' - 1"	15' - 0"



3 PLAN
SCALE: 1/2" = 1'-0"

2.3 ELEVATION
SCALE: 1/2" = 1'-0"

2.2 ELEVATION
SCALE: 1/2" = 1'-0"

2.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K14

TYPE	LEVELS	WIDTH	DEPTH
K14	37	12' - 7"	13' - 7"

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

1.4 ELEVATION
SCALE: 1/2" = 1'-0"

1.3 ELEVATION
SCALE: 1/2" = 1'-0"

1.2 ELEVATION
SCALE: 1/2" = 1'-0"

1.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K13

TYPE	LEVELS	WIDTH	DEPTH
K13	34 - 36	9' - 0"	13' - 9"

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

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ENLARGED PLANS & ELEVATIONS - KITCHENS

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A-705.00

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B3000569769 Scan Code

GENERAL NOTE:

1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.

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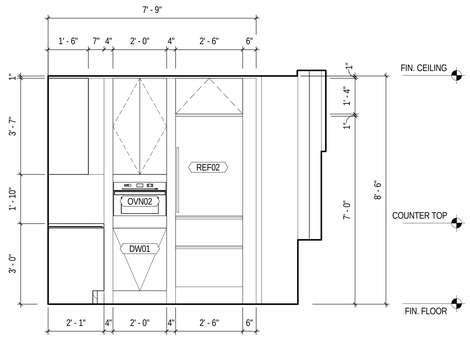
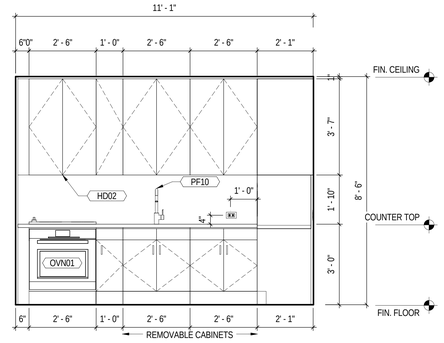


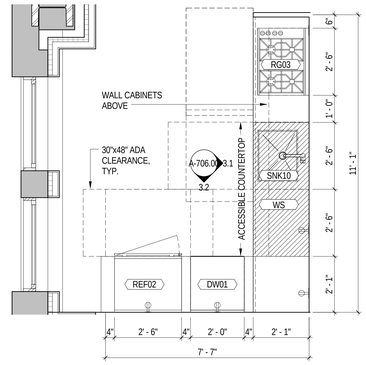
3.2 ELEVATION
SCALE: 1/2" = 1'-0"



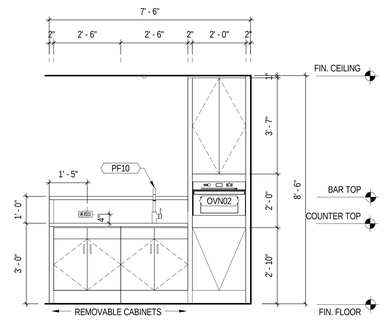
3.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K18

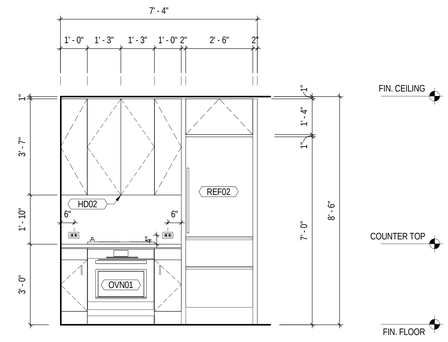
TYPE	LEVELS	WIDTH	DEPTH
K18	13 - 15	7' - 7"	11' - 1"



3 PLAN
SCALE: 1/2" = 1'-0"



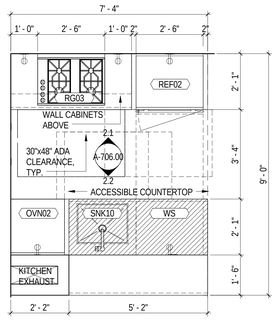
2.2 ELEVATION
SCALE: 1/2" = 1'-0"



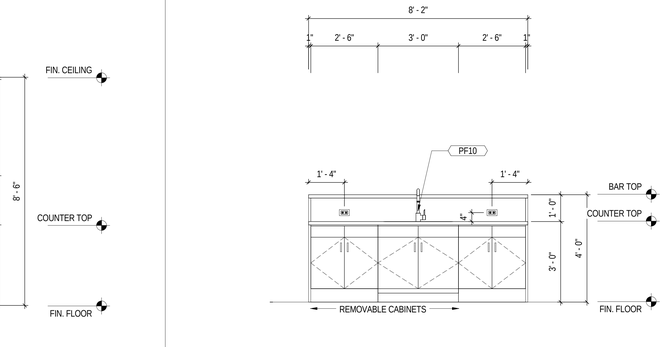
2.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K17

TYPE	LEVELS	WIDTH	DEPTH
K17	13 - 15	7' - 4"	9' - 0"

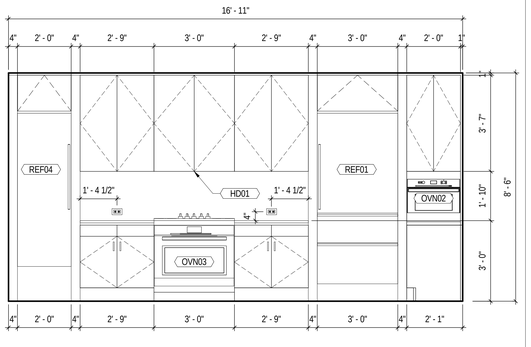


2 PLAN
SCALE: 1/2" = 1'-0"



1.3 ELEVATION
SCALE: 1/2" = 1'-0"

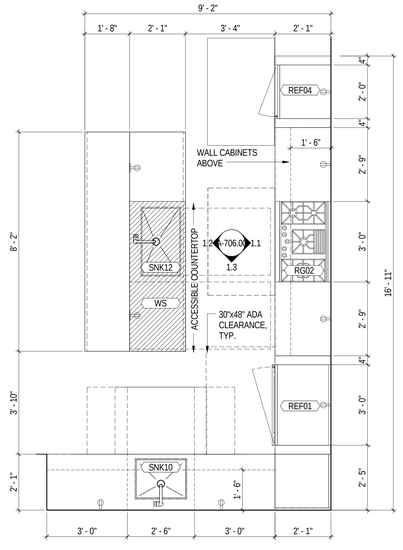
1.2 ELEVATION
SCALE: 1/2" = 1'-0"



1.1 ELEVATION
SCALE: 1/2" = 1'-0"

KITCHEN - TYPE K16

TYPE	LEVELS	WIDTH	DEPTH
K16	42	10' - 7"	16' - 11"



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

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ENLARGED PLANS & ELEVATIONS - KITCHENS

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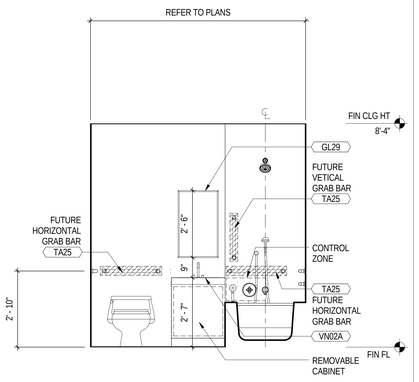
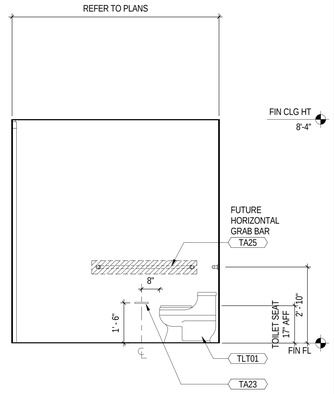
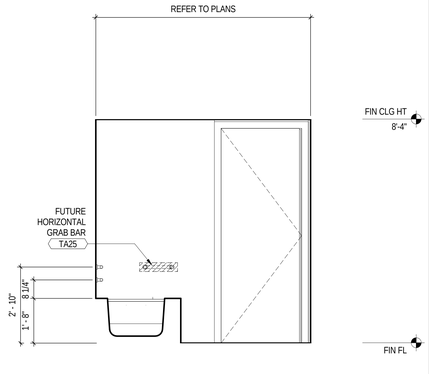


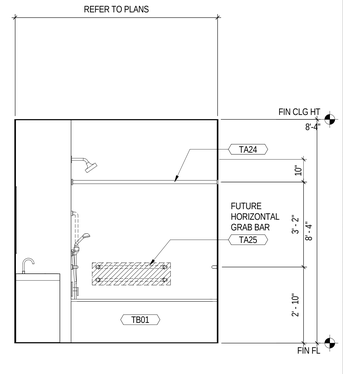
3.4 ELEVATION
SCALE: 1/2" = 1'-0"



3.3 ELEVATION
SCALE: 1/2" = 1'-0"



3.2 ELEVATION
SCALE: 1/2" = 1'-0"

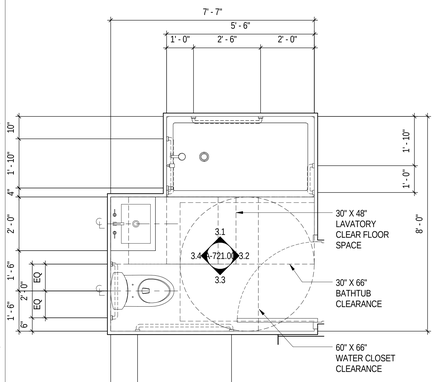


3.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A3

TYPE	LEVELS	WIDTH	DEPTH
A3	13-17, 19-41	7'-7"	8'-0"
A3.1	13-17, 19-31, 34-37		

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.
2. TYPE A3.1 CONTRAINS SIMILAR LAYOUT WITH MIRRORED CONDITIONS.



3 PLAN
SCALE: 1/2" = 1'-0"

2.4 ELEVATION
SCALE: 1/2" = 1'-0"

2.3 ELEVATION
SCALE: 1/2" = 1'-0"

2.2 ELEVATION
SCALE: 1/2" = 1'-0"

2.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A2

TYPE	LEVELS	WIDTH	DEPTH
A2	13-16, 19-31, 34-36	7'-2"	10'-1"
A2.1	13-16		

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.
2. TYPE A2.1 CONTRAINS SIMILAR LAYOUT WITH MIRRORED CONDITIONS.

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

1.5 ELEVATION
SCALE: 1/2" = 1'-0"

1.4 ELEVATION
SCALE: 1/2" = 1'-0"

1.3 ELEVATION
SCALE: 1/2" = 1'-0"

1.2 ELEVATION
SCALE: 1/2" = 1'-0"

1.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A1

TYPE	LEVELS	WIDTH	DEPTH
A1	13-17, 19-31, 34-36	9'-5 1/2"	9'-2"

NOTE:
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1 PLAN
SCALE: 1/2" = 1'-0"

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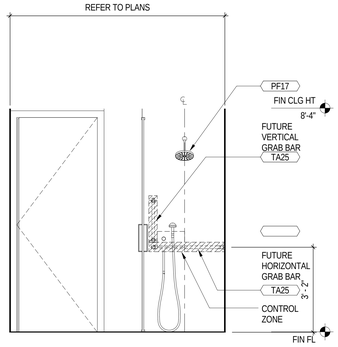
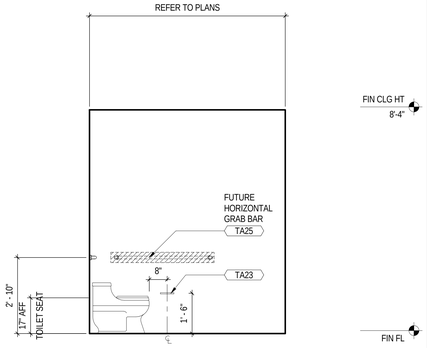
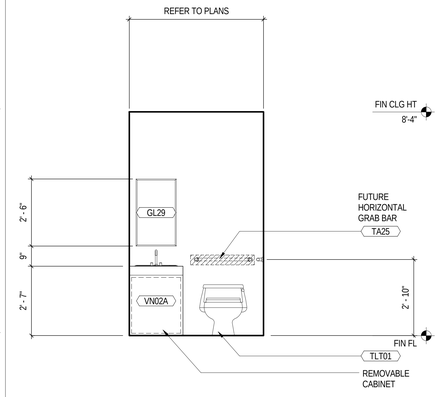


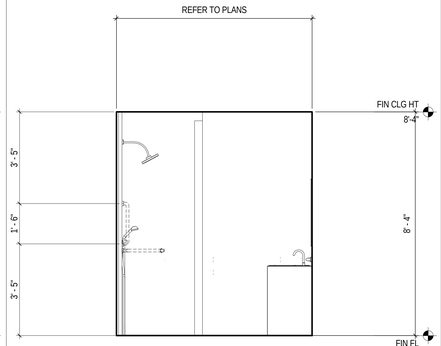
3.4 ELEVATION
SCALE: 1/2" = 1'-0"



3.3 ELEVATION
SCALE: 1/2" = 1'-0"



3.2 ELEVATION
SCALE: 1/2" = 1'-0"

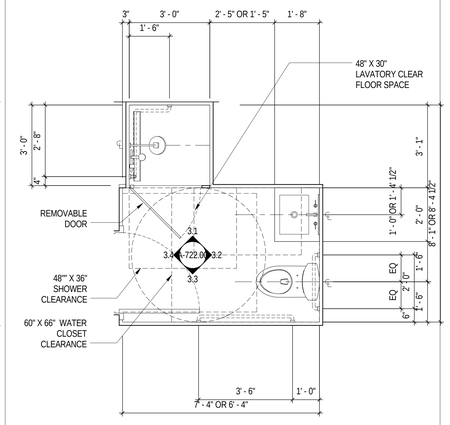


3.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A6

TYPE	LEVELS	WIDTH	DEPTH
A6	13-17, 19-36	7'-4"	8'-1"
A6.1	13-15, 38-41		
A6.2	15-17, 37-41	6'-4"	8'-4 1/2"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.
2. TYPE A3.1 CONTRAINS SIMILAR LAYOUT WITH MIRRORED CONDITIONS.



3 PLAN
SCALE: 1/2" = 1'-0"

2.4 ELEVATION
SCALE: 1/2" = 1'-0"

2.3 ELEVATION
SCALE: 1/2" = 1'-0"

2.2 ELEVATION
SCALE: 1/2" = 1'-0"

2.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A5

TYPE	LEVELS	WIDTH	DEPTH
A5	20, 22-33	8'-7 1/2	7'-7"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.
2. REFER TO WINDOW SCHEDULE FOR EXTERIOR WINDOW OPENINGS.

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

1.4 ELEVATION
SCALE: 1/2" = 1'-0"

1.3 ELEVATION
SCALE: 1/2" = 1'-0"

1.2 ELEVATION
SCALE: 1/2" = 1'-0"

1.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A4

TYPE	LEVELS	WIDTH	DEPTH
A4	13-15, 22-36	9'-1 1/2"	8'-1 1/2"
A4.1	13-15 22-36		

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.
2. REFER TO WINDOW SCHEDULE FOR EXTERIOR WINDOW OPENINGS.
3. TYPE A4.1 SIMILAR LAYOUT WITH MORRORED CONDITIONS.

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

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SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM HAHN
No. 025345
STATE OF NEW YORK

NO.	DATE	DESCRIPTION

DRAWING TITLE
ENLARGED PLANS & ELEVATIONS - ACCESSIBLE BATHROOMS

B-SCAN - DRAWING NUMBER
A-722.00

PAGE NUMBER
115 OF 137

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E-5968651/1333 Scan Code

REFER TO G-004 FOR GRAB BAR MOUNTING DETAILS.
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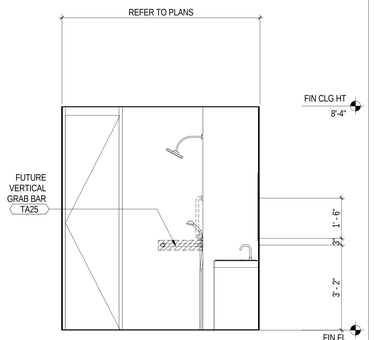
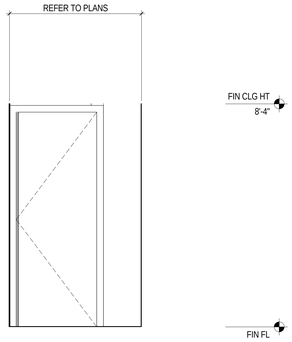
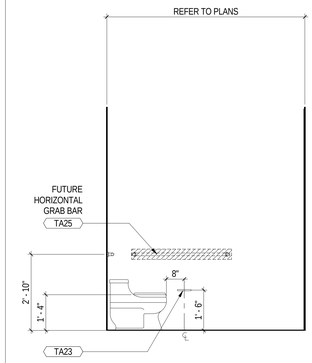


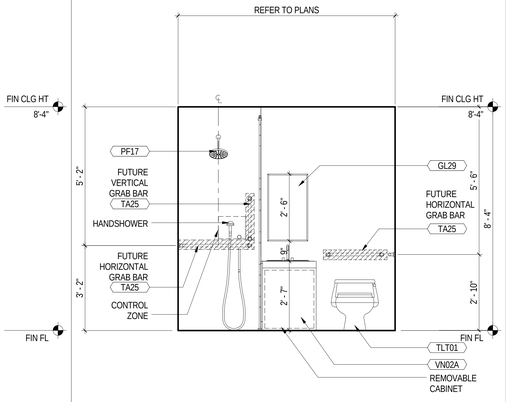
3.4 ELEVATION
SCALE: 1/2" = 1'-0"



3.3 ELEVATION
SCALE: 1/2" = 1'-0"



3.2 ELEVATION
SCALE: 1/2" = 1'-0"

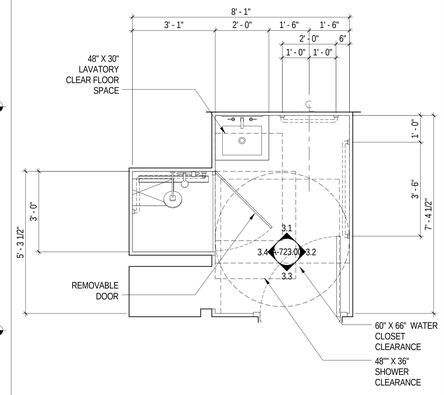


3.1 ELEVATION
SCALE: 1/2" = 1'-0"

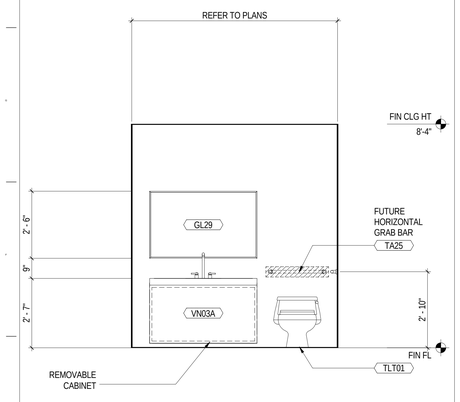
ADA (TYPE A) BATHROOM - TYPE A9

TYPE	LEVELS	WIDTH	DEPTH
A9	13-17, 19, 21, 34-36, 42	8'-1"	7'-4 1/2"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.



3 PLAN
SCALE: 1/2" = 1'-0"



2.4 ELEVATION
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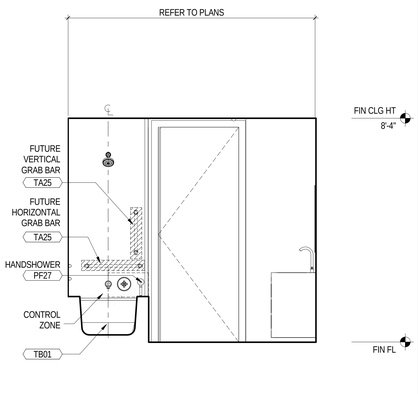
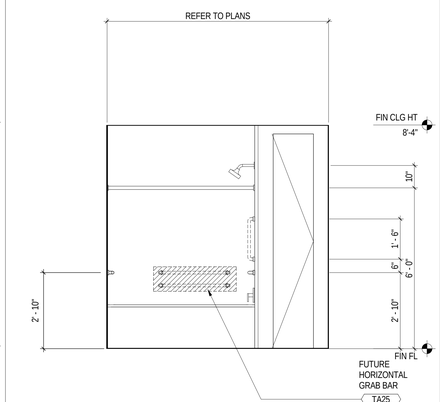
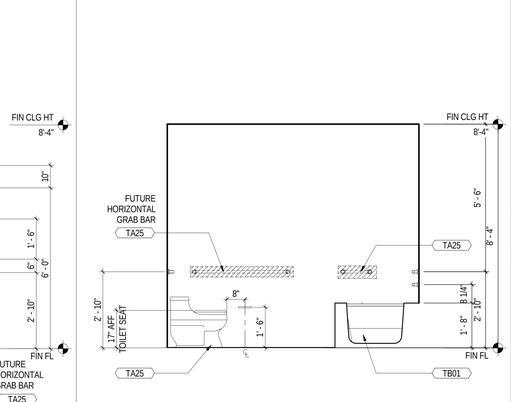


2.3 ELEVATION
SCALE: 1/2" = 1'-0"



2.2 ELEVATION
SCALE: 1/2" = 1'-0"

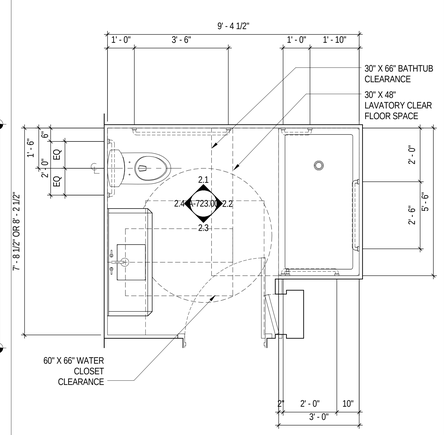


2.1 ELEVATION
SCALE: 1/2" = 1'-0"

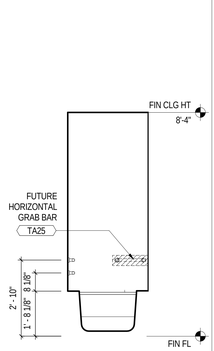
ADA (TYPE A) BATHROOM - TYPE A8

TYPE	LEVELS	WIDTH	DEPTH
A8	34-36	9'-4 1/2"	7' 8 1/2"
A8.1	15-16		8' - 2 1/2"

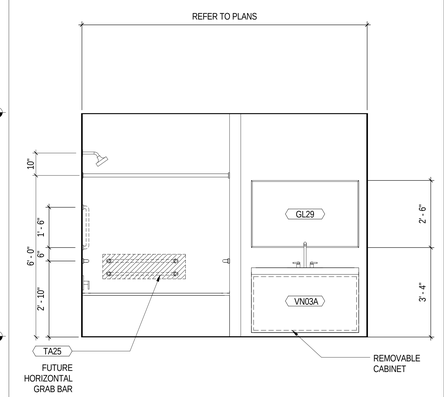
NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.



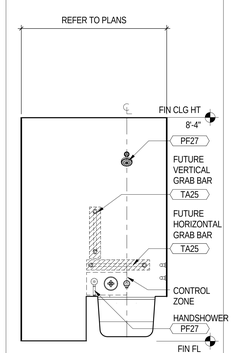
2 PLAN
SCALE: 1/2" = 1'-0"



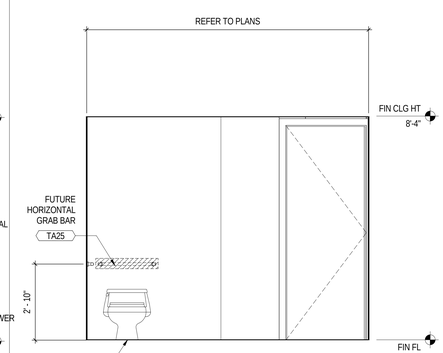
1.5 ELEVATION
SCALE: 1/2" = 1'-0"



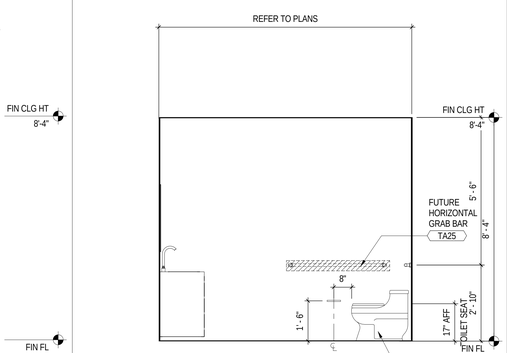
1.4 ELEVATION
SCALE: 1/2" = 1'-0"



1.3 ELEVATION
SCALE: 1/2" = 1'-0"



1.2 ELEVATION
SCALE: 1/2" = 1'-0"

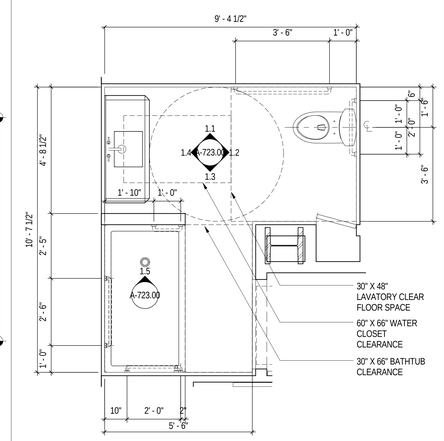


1.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A7

TYPE	LEVELS	WIDTH	DEPTH
A7	31	9'-4 1/2"	10'-7 1/2"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.



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

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Under Directive 3 of 1975
Date: 07/24/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TABER
No. 023325
STATE OF NEW YORK

NO.	DATE	DESCRIPTION

DRAWING TITLE
ENLARGED PLANS & ELEVATIONS - ACCESSIBLE BATHROOMS

B-SCAN - DRAWING NUMBER
A-723.00

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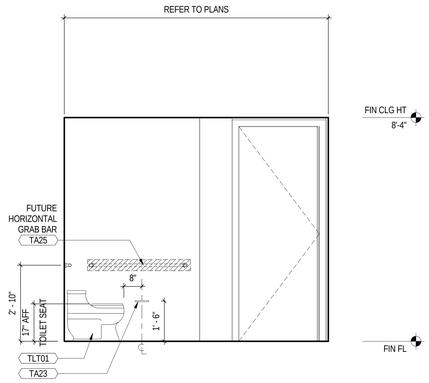
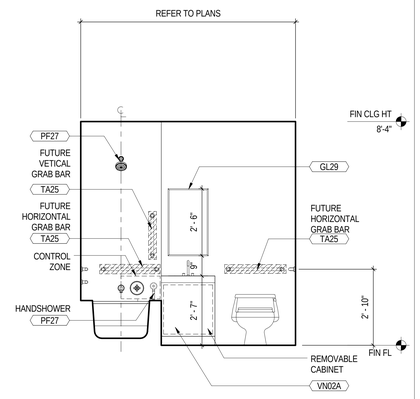
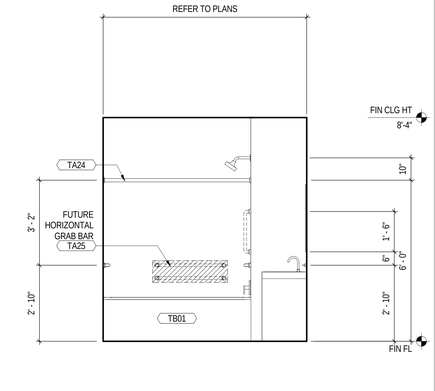


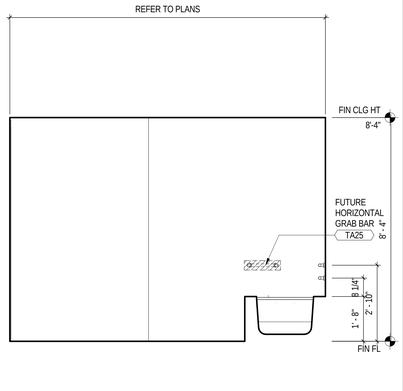
3.4 ELEVATION
SCALE: 1/2" = 1'-0"



3.3 ELEVATION
SCALE: 1/2" = 1'-0"



3.2 ELEVATION
SCALE: 1/2" = 1'-0"

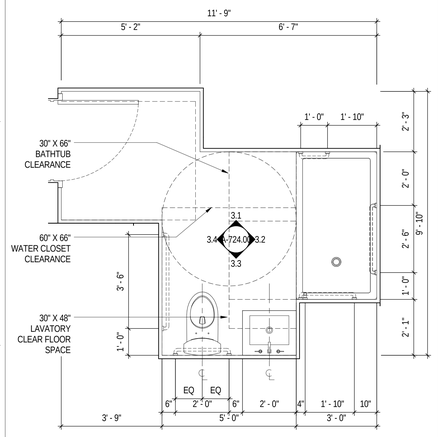


3.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A12

TYPE	LEVELS	WIDTH	DEPTH
A12	13	11'-9"	9'-10"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.



3 PLAN
SCALE: 1/2" = 1'-0"

2.4 ELEVATION
SCALE: 1/2" = 1'-0"

2.3 ELEVATION
SCALE: 1/2" = 1'-0"

2.2 ELEVATION
SCALE: 1/2" = 1'-0"

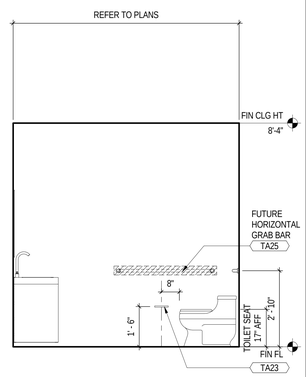
2.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A11

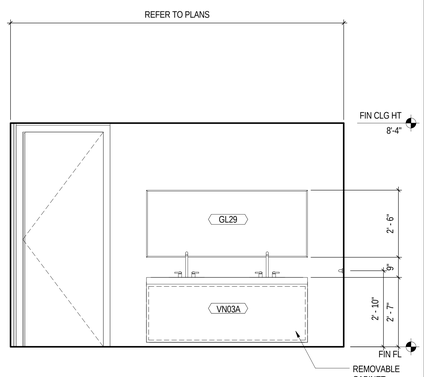
TYPE	LEVELS	WIDTH	DEPTH
A11	13-14	8'-3 1/2"	8'-0 1/2"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.

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



1.4 ELEVATION
SCALE: 1/2" = 1'-0"



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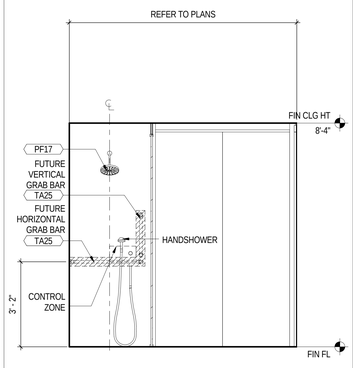

1.2 ELEVATION
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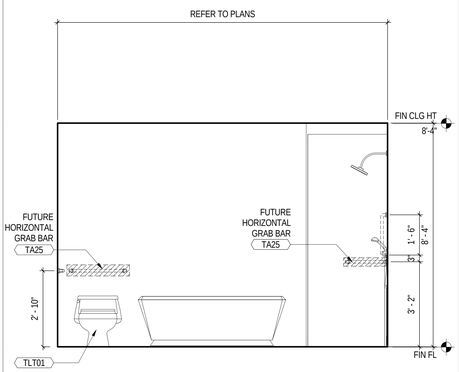
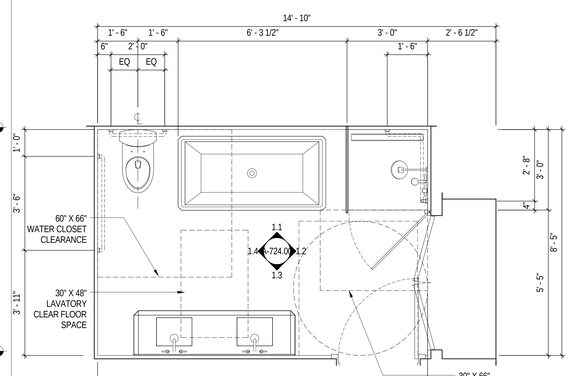


1.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A10

TYPE	LEVELS	WIDTH	DEPTH
A10	13-15	14'-10"	8'-5"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.



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

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WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TIBBS
No. 023338
STATE OF NEW YORK

NO.	DATE	DESCRIPTION

DRAWING TITLE
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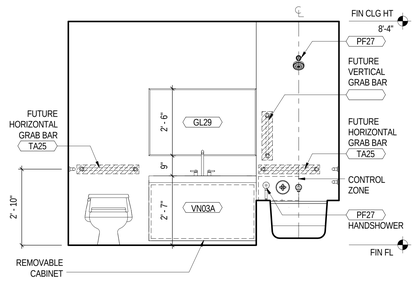

3.4 ELEVATION
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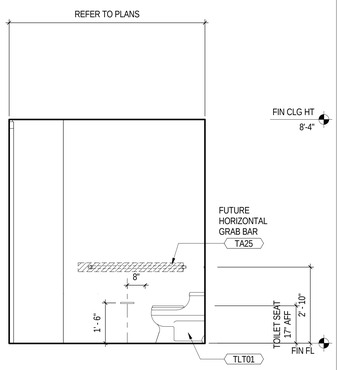
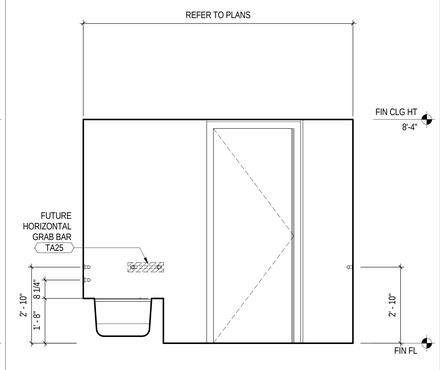


3.3 ELEVATION
SCALE: 1/2" = 1'-0"



3.2 ELEVATION
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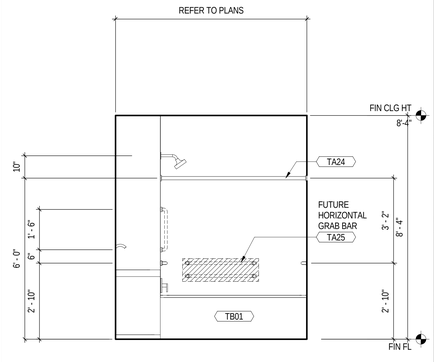
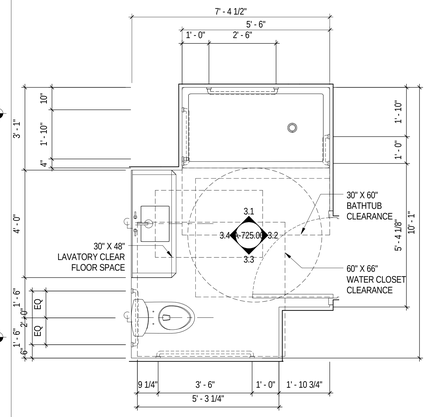


3.1 ELEVATION
SCALE: 1/2" = 1'-0"

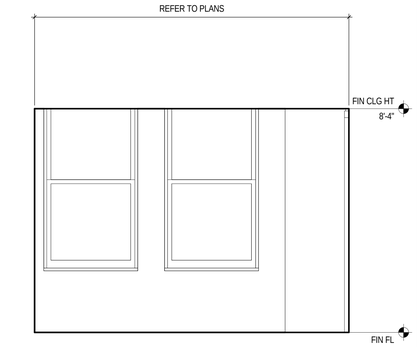
ADA (TYPE A) BATHROOM - TYPE A15

TYPE	LEVELS	WIDTH	DEPTH
A15	13-16, 19-20, 22-30	7'-4 1/2"	10'-1"

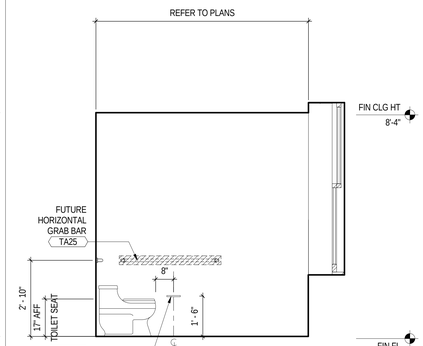
NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.



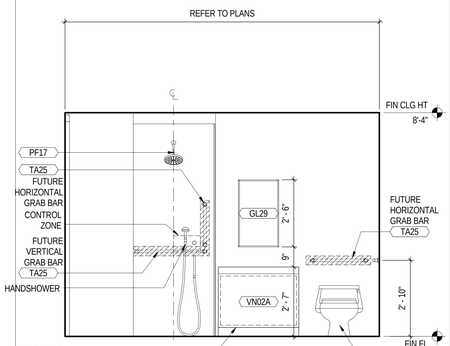
3 PLAN
SCALE: 1/2" = 1'-0"



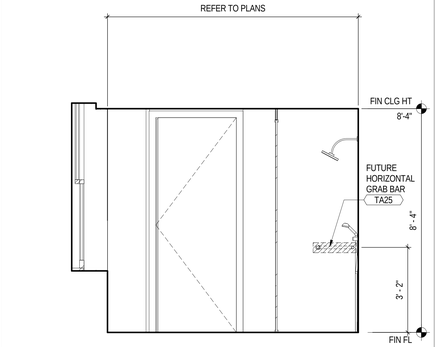
2.4 ELEVATION
SCALE: 1/2" = 1'-0"



2.3 ELEVATION
SCALE: 1/2" = 1'-0"



2.2 ELEVATION
SCALE: 1/2" = 1'-0"

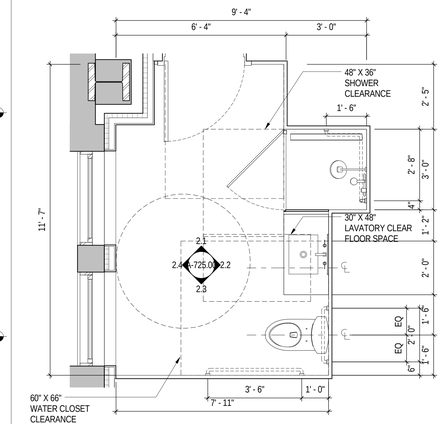


2.1 ELEVATION
SCALE: 1/2" = 1'-0"

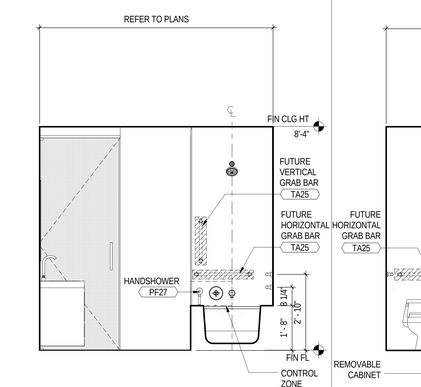
ADA (TYPE A) BATHROOM - TYPE A14

TYPE	LEVELS	WIDTH	DEPTH
A14	16-17	9'-4"	11'-7"

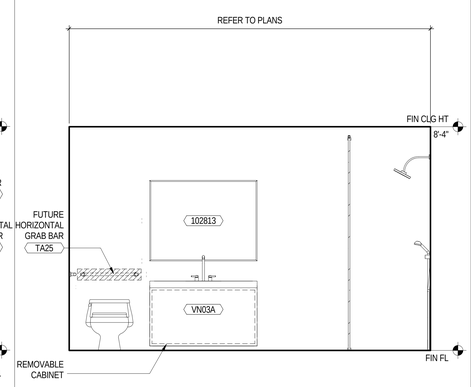
NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.
2. REFER TO WINDOW SCHEDULE FOR EXTERIOR WINDOW OPENINGS.



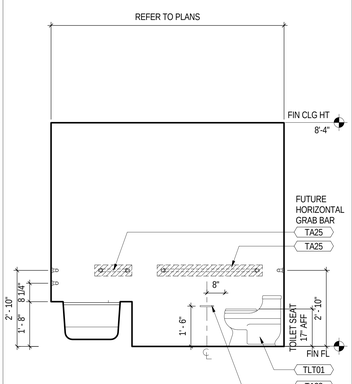
2 PLAN
SCALE: 1/2" = 1'-0"



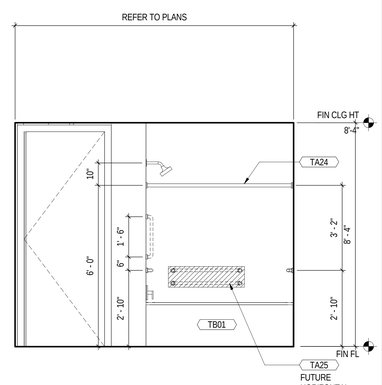
1.4 ELEVATION
SCALE: 1/2" = 1'-0"



1.3 ELEVATION
SCALE: 1/2" = 1'-0"



1.2 ELEVATION
SCALE: 1/2" = 1'-0"

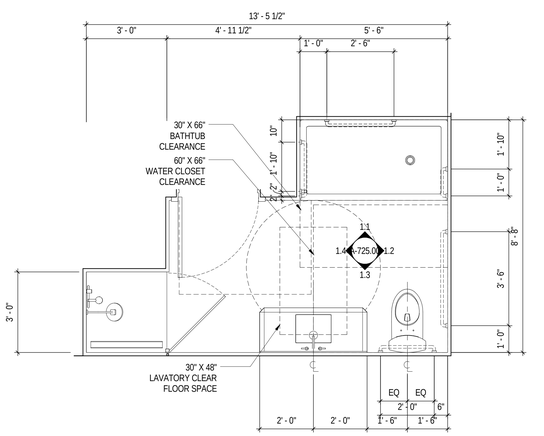


1.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A13

TYPE	LEVELS	WIDTH	DEPTH
A13	13	13-5 1/2"	8'-8"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.



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

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Azmi Zahed-Atkins, RA
Building
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM PEREZ
No. 023935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION

DRAWING TITLE
ENLARGED PLANS & ELEVATIONS - ACCESSIBLE BATHROOMS

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REFER TO G-004 FOR GRAB BAR MOUNTING DETAILS.
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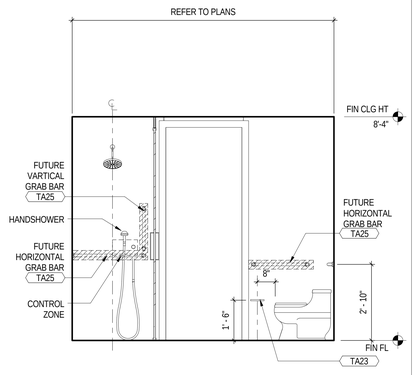
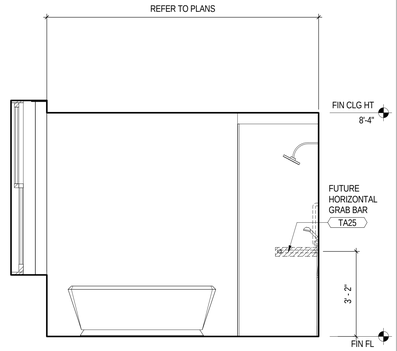
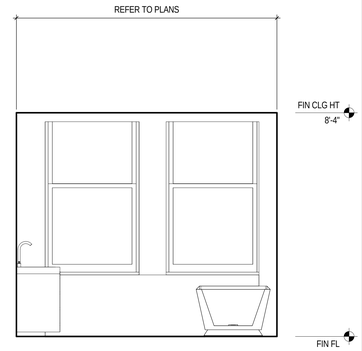


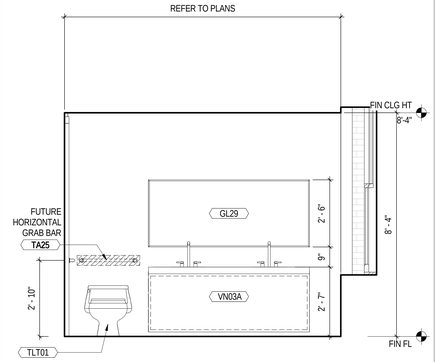
3.4 ELEVATION
SCALE: 1/2" = 1'-0"



3.3 ELEVATION
SCALE: 1/2" = 1'-0"



3.2 ELEVATION
SCALE: 1/2" = 1'-0"

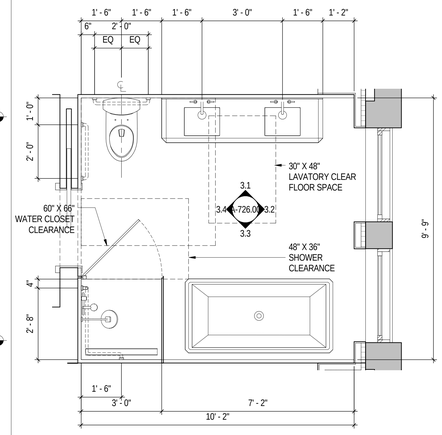


3.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (APPENDIX P) BATHROOM - TYPE B2

TYPE	LEVELS	WIDTH	DEPTH
B2	13-15	10'-2"	9'-9"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.
2. REFER TO WINDOW SCHEDULE FOR EXTERIOR WINDOW OPENINGS.



3 PLAN
SCALE: 1/2" = 1'-0"

2.4 ELEVATION
SCALE: 1/2" = 1'-0"

2.3 ELEVATION
SCALE: 1/2" = 1'-0"

2.2 ELEVATION
SCALE: 1/2" = 1'-0"

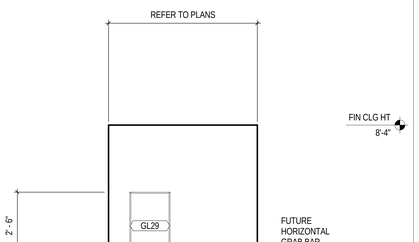
2.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (APPENDIX P) BATHROOM - TYPE B1

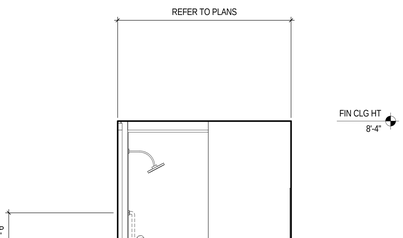
TYPE	LEVELS	WIDTH	DEPTH
B1	13-17	6'-7"	9'-2"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.

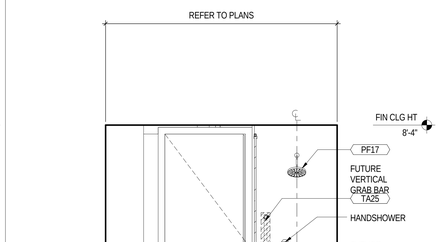
2 PLAN
SCALE: 1/2" = 1'-0"



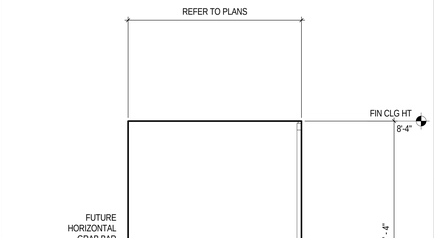
1.4 ELEVATION
SCALE: 1/2" = 1'-0"



1.3 ELEVATION
SCALE: 1/2" = 1'-0"



1.2 ELEVATION
SCALE: 1/2" = 1'-0"



1.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (TYPE A) BATHROOM - TYPE A16

TYPE	LEVELS	WIDTH	DEPTH
A16	42		8'-7 1/2

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.

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

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WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL:

REGISTERED ARCHITECT
KENNETH ADAM LANG
No. 023535
STATE OF NEW YORK

NO.	DATE	DESCRIPTION

DRAWING TITLE
ENLARGED PLANS & ELEVATIONS - ACCESSIBLE BATHROOMS

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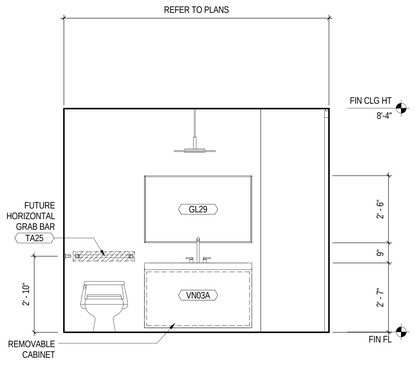
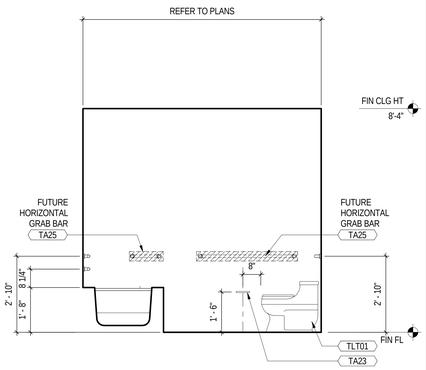
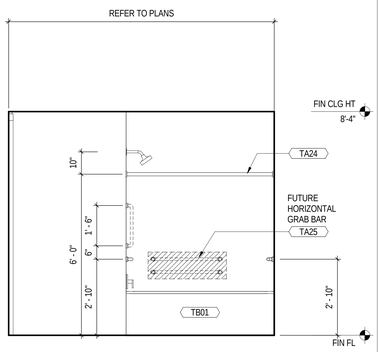


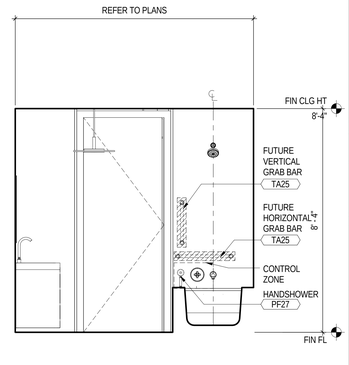
1.4 ELEVATION
SCALE: 1/2" = 1'-0"



1.3 ELEVATION
SCALE: 1/2" = 1'-0"



1.2 ELEVATION
SCALE: 1/2" = 1'-0"

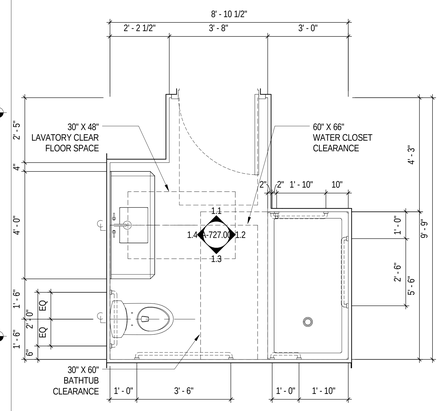


1.1 ELEVATION
SCALE: 1/2" = 1'-0"

ADA (APPENDIX P) BATHROOM - TYPE B3

TYPE	LEVELS	WIDTH	DEPTH
B3	13-17	8'-10 1/2"	9'-9"

NOTE:
1. ACTUAL DIMENSIONS TO BE VERIFIED IN FIELD.



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

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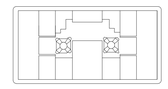
KEYPLAN



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REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	10 FEB 2017	ISSUED FOR BID PACKAGE 003

DRAWING TITLE

ENLARGED PLANS & ELEVATIONS - ACCESSIBLE BATHROOMS

B-SCAN - DRAWING NUMBER

A-727.00

PAGE NUMBER

120 OF 137

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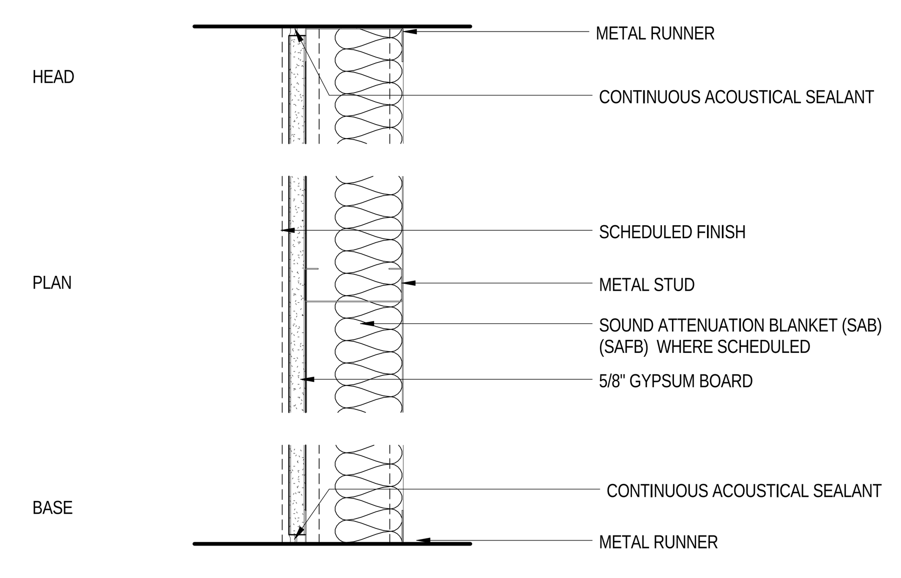
SHEET NOTES:

1. REFER TO OVERALL FLOOR PLANS AND CORE PLANS FOR PARTITION TYPES AND REQUIREDMINIMUM FIRE RATINGS
2. ALL GYPSUM BOARD AND STUDS ARE FULL HEIGHT, UNO.
3. ALL GYPSUM BOARD IS 5/8" TYP., UNO.
4. ALL FIRE RATED PARTITIONS TO BE TYPE 'X' GYPSUM BOARD.
5. USE WATER-RESISTANT GYPSUM BOARD ON PARTITION SCHEDULED TO RECEIVE CERAMIC TILE;EXCEPTION: SHOWERS TO RECEIVE CEMENTITIOUS BACKER BOARD.
6. PARTITIONS ARE DIMENSIONED FROM FACE GWB/CMU ON PLANS U.N.O.
7. GAUGE OF RUNNERS TO MATCH GAUGE OF STUDS.
8. STUD GAUGES SHOWN ARE MINIMUM REQUIRED.
9. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT SILL AND HEAD PARTITIONS WHERE AN STC RATING IS REQUIRED.
10. TAPE, BED, FLOAT, AND FINISH ALL GYPSUM BOARD CORNERS AND JOINTS READY FOR FINISH.
11. FOR FINISHES REFER TO FINISH SCHEDULE. COORDINATE FRAMING WITH FINISHES AS SHOWN IN THE DOCUMENTS.
12. PROVIDE CONTINUOUS CAULKING AT ALL DUCT PIPE AND CONDUIT PENETRATIONS THROUGHWALLS REQUIRING FIRE RATING AND ACOUSTICAL SEPARATION.
13. UL ASSEMBLIES ARE BASED ON 2005 FIRE RESISTANCE DIRECTORY.
14. SSMA REFERS TO STEEL STUD MANUFACTURERS ASSOCIATION. USG REFERS TO UNITED STATES GYPSUM BOARD COMPANY. GA REFERS TO THE GYPSUM ASSOCIATION.
15. PROVIDE SOUND ATTENUATION BLANKET (SAB) AND/OR SOUND ATTENUATION FIRE BLANKET (SAFB) AS REQUIRED TO OBTAIN FIRE RATING ASSEMBLY AND STC RATING WHERE SHOWN, SCHEDULED AND TAGGED.
16. SEE SPECIFICATION FOR ADDITIONAL PARTITION REQUIREMENTS.
17. PARTITION ASSEMBLIES ARE IDENTIFIED THROUGH THE FOLLOWING PARTITION TAG:

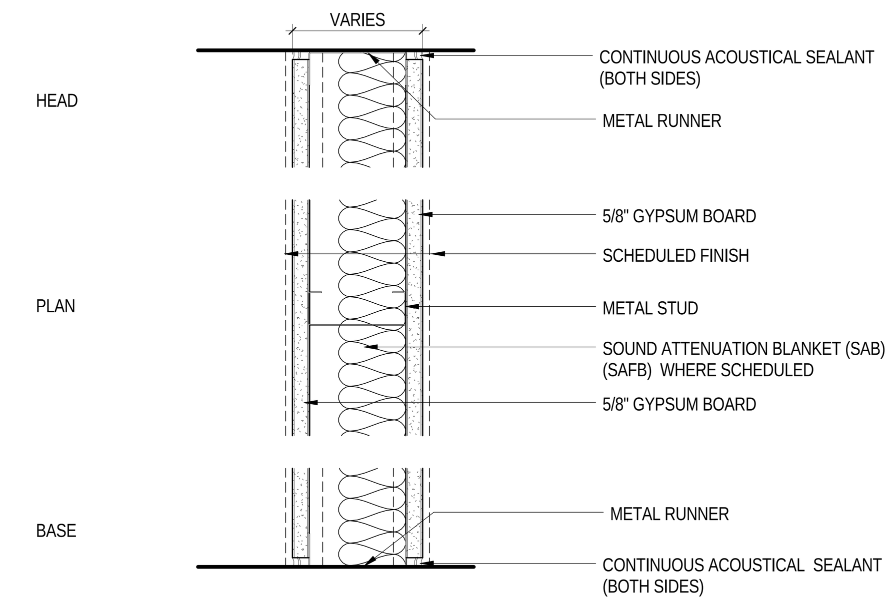
XX — PARTITION TYPE
- - — REQUIRED FIRE RATING INDICATED IN HOURS
ACOUSTIC RATING REQUIRED - INDICATED BY AN "A"

INSULATION SCHEDULE		
INSULATION THICKNESS	STUD SIZE	REMARK
1-1/2" *	1-5/8"	* SAFB AT FIRE RATED PARTITION
2" *	2"	* SAFB AT FIRE RATED PARTITION
3" *	3-5/8" AND ABOVE	* SAFB AT FIRE RATED PARTITION



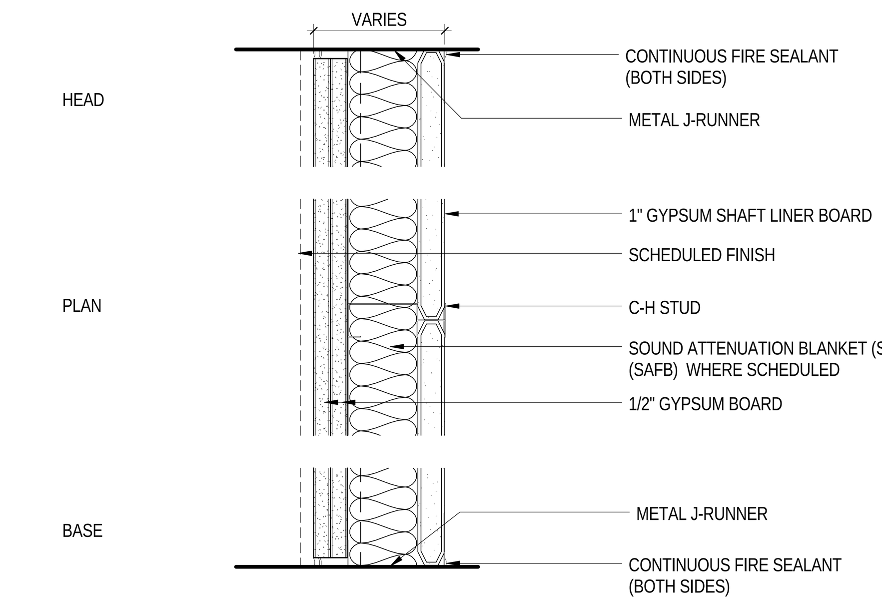
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
J1	2 1/2"	3 1/8"	NR		31	ESTIMATE	20	11' - 7"	10' - 2"	9' - 2"	8' - 1"
J2	3 5/8"	4 1/4"	NR		31	ESTIMATE	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"
J3	4"	4 5/8"	NR		31	ESTIMATE	25	12' - 10"	10' - 5"	9' - 1"	7' - 5"
J4	4"	4 5/8"	NR		31	ESTIMATE	20	16' - 8"	14' - 7"	13' - 1"	10' - 8"
J5	6"	6 5/8"	NR		31	ESTIMATE	20	22' - 11"	18' - 11"	16' - 5"	13' - 5"

9 TYPE J - CHASE WALL (NON-RATED)
SCALE: 3" = 1'-0"



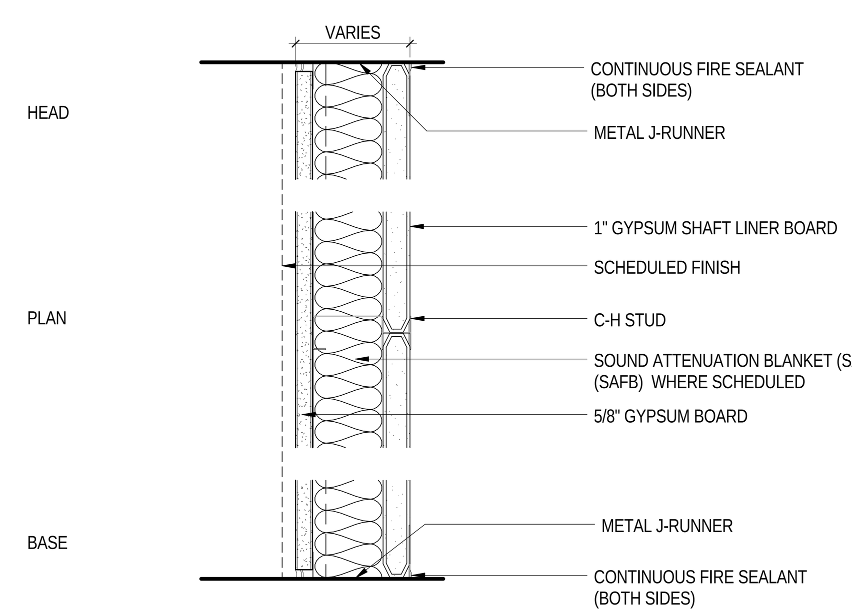
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
H1	2 1/2"	3 3/4"	NR		47	SA-831001	20	11' - 7"	10' - 2"	9' - 2"	8' - 1"
H2	3 5/8"	4 7/8"	NR		49	SA-870717	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"
H3	4"	5 1/4"	NR		49	ESTIMATE	25	12' - 10"	10' - 5"	9' - 1"	7' - 5"
H4	4"	5 1/4"	NR		49	ESTIMATE	20	16' - 8"	14' - 7"	13' - 1"	10' - 8"
H5	6"	7 1/4"	NR		49	ESTIMATE	20	22' - 11"	18' - 11"	16' - 5"	13' - 5"

6 TYPE H - GWB PARTITION (NON RATED)
SCALE: 3" = 1'-0"



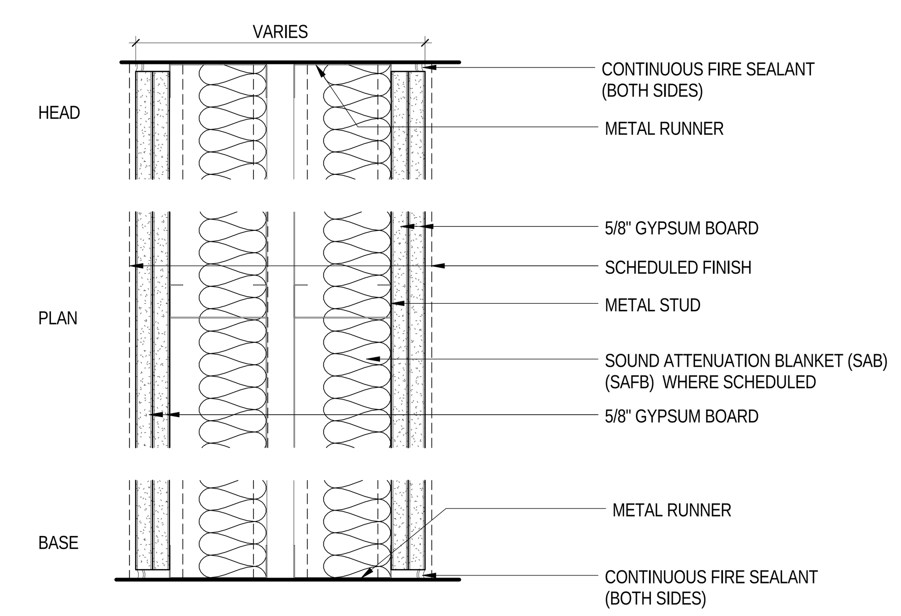
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
G1	2 1/2"	3 1/2"	2 HR	UL U415	38	BBN-750706	25		11' - 4"		9' - 0"
G2	2 1/2"	3 1/2"	2 HR	UL U415	38	BBN-750706	20		12' - 10"		10' - 2"
G3	4"	5"	2 HR	UL U415	50	OT-04-019	25		15' - 7"		12' - 5"
G4	4"	5"	2 HR	UL U415	50	OT-04-019	20		18' - 1"		14' - 4"
G5	6"	7"	2HR	UL U415	50	OT-04-019	20		21' - 9"		17' - 4"

3 TYPE G - SHAFT WALL (2 HR)
SCALE: 3" = 1'-0"



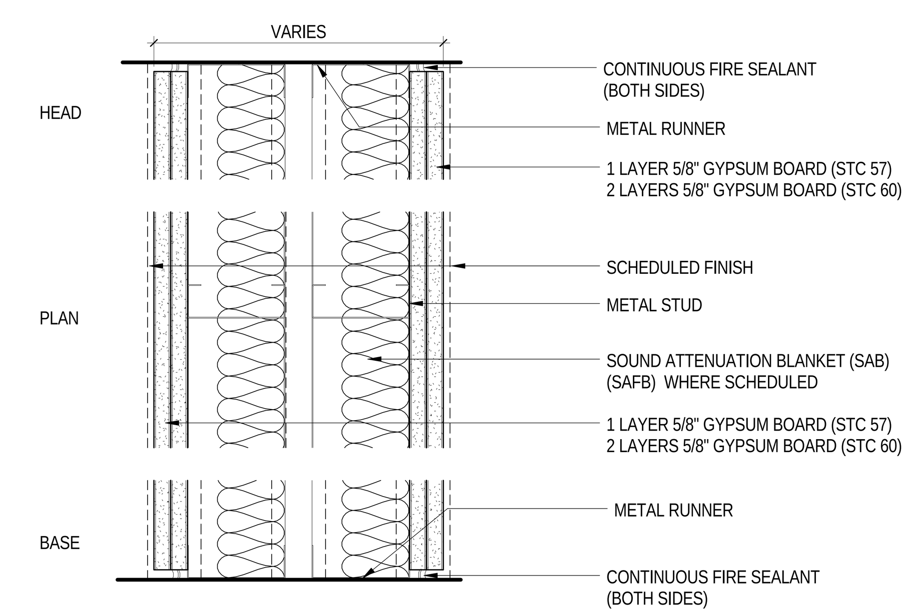
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
F1	2 1/2"	3 1/8"	1 HR	UL U415	-	-	25		10' - 7"		8' - 4"
F2	2 1/2"	3 1/8"	1 HR	UL U415	-	-	20		12' - 3"		9' - 9"
F3	4"	4 5/8"	1 HR	UL U415	39	USG-040901	25		14' - 5"		10' - 9"
F4	4"	4 5/8"	1 HR	UL U415	39	USG-040901	20		17' - 6"		13' - 10"
F5	6"	6 5/8"	1 HR	UL U415	39	USG-040901	20		24' - 0"		18' - 7"

11 TYPE F - SHAFT WALL (1 HR)
SCALE: 3" = 1'-0"



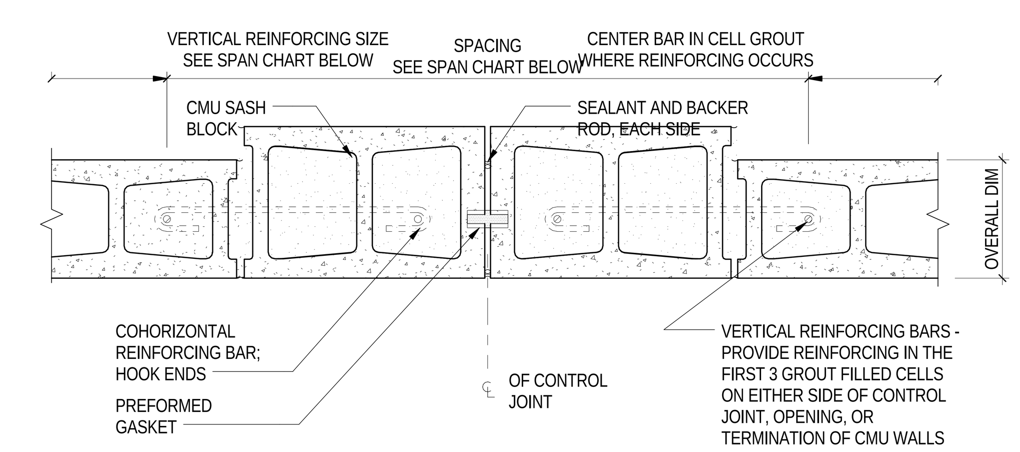
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
E1	2 1/2"	8 1/2"	2 HR	UL U493	60	USG-050819	20	11' - 7"	10' - 2"	9' - 2"	8' - 1"
E2	3 5/8"	10 3/4"	2 HR	UL U493	60	USG-050819	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"
E3	3 5/8"	10"	2 HR	UL U493	60	USG-050819	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"

8 TYPE E - DOUBLE STUD WALL (2 HR)
SCALE: 3" = 1'-0"



WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
D1	2 1/2"	7 1/4"	1 HR	UL U493	57	TL-76-156	20	11' - 7"	10' - 2"	9' - 2"	8' - 1"
D2	3 5/8"	9 1/2"	1 HR	UL U493	57	TL-76-156	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"
D3	4"	10 1/4"	1 HR	UL U493	57	TL-76-156	20	16' - 8"	14' - 7"	13' - 1"	10' - 8"
D4	3 5/8"	10 3/4"	1 HR	UL U493	60	USG-050819	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"

5 TYPE D - DOUBLE STUD WALL (1 HR)
SCALE: 3" = 1'-0"



PLAN

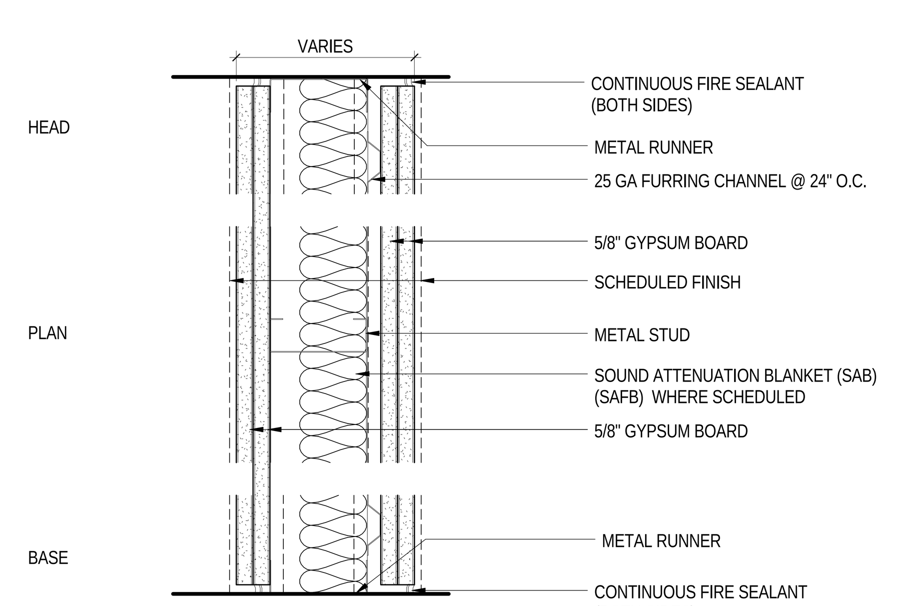
C.M.U. WALL SPAN CHART

REINFORCING REQUIRED FOR SINGLE-WYTHE NON-LOAD BEARING CONCRETE UNIT MASONRY PARTITIONS AND WALL

VERTICAL REINFORCING: MINIMUM REQUIRED SIZE & SPACING BELOW
HORIZONTAL REINFORCING: #5 - 24" MAX. SPACING

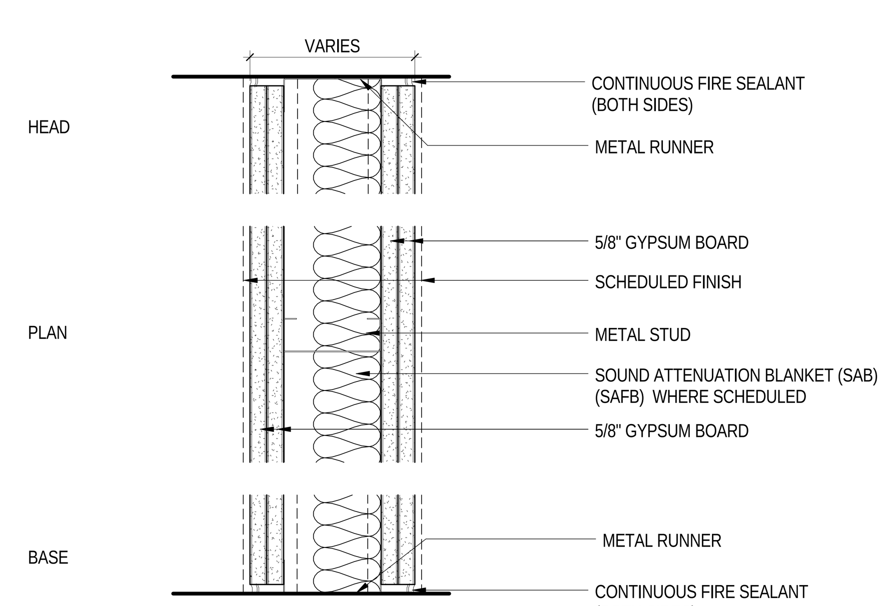
WALL HEIGHT (FT-IN)	LATERAL DESIGN PRESSURE (PSF)	OVERALL DIM = 6"	OVERALL DIM = 8"	OVERALL DIM = 10"	OVERALL DIM = 12"
8'-0"	5	NONE	NONE	NONE	NONE
	10	NONE	NONE	NONE	NONE
	20	#5 . 48	#5 . 48	NONE	NONE
	30	#5 . 48	#5 . 48	#5 . 48	NONE
	40	#5 . 48	#5 . 48	#5 . 48	#5 . 48
	50	#5 . 48	#5 . 48	#5 . 48	#5 . 48
10'-0"	5	NONE	NONE	NONE	NONE
	10	#5 . 48	NONE	NONE	NONE
	20	#5 . 48	#5 . 48	NONE	NONE
	30	#5 . 40	#5 . 48	#5 . 48	#5 . 48
	40	#5 . 16	#5 . 48	#5 . 48	#5 . 48
	50	#5 . 16	#5 . 40	#5 . 48	#5 . 48
13'-0"	5	#5 . 48	NONE	NONE	NONE
	10	#5 . 48	#5 . 48	NONE	NONE
	20	#5 . 24	#5 . 48	#5 . 48	#5 . 48
	30	#5 . 16	#5 . 40	#5 . 40	#5 . 48
	40	--------	#5 . 24	#5 . 32	#5 . 40
	50	--------	#5 . 16	#5 . 24	#5 . 32
17'-0"	5	#5 . 48 (2)	#5 . 48	NONE (2)	NONE
	10	#5 . 48 (2)	#5 . 48	#5 . 48	NONE
	20	------- (5)	#5 . 24	#5 . 40	#5 . 48
	30	--------	#5 . 16	#5 . 24	#5 . 32
	40	--------	--------	#5 . 24	#5 . 24
	50	--------	--------	--------	#5 . 24
23'-0"	5	--------	#5 . 48 (2)	#5 . 48	#5 . 48
	10	--------	#5 . 32	#5 . 48	#5 . 48
	20	--------	--------	#5 . 24	#5 . 24
	30	--------	--------	--------	#5 . 24
	40	--------	--------	--------	#8 . 8
	50	--------	--------	--------	--------

NOTES:
1. SEE SPECIFICATIONS SECTION 04220 'CONCRETE UNIT MASONRY' AND CONCRETE UNIT MASONRY NOTES FOR INFORMATION REGARDING MASONRY, MORTAR AND REINFORCING REQUIREMENTS, AND LATERAL DESIGN PRESSURE.
2. FOR USE AT INTERIOR WALLS ONLY.
3. DO NOT USE FOR SEISMIC DESIGN.
4. VERIFY SLAB ASSEMBLY RATING AT CMU WALL RATING TO BE GREATER THAN 2 HR.
5. ---- INDICATES GREATER "OVERALL DIM" REQUIRED.
6. "OVERALL DIM" IS NOMINAL WALL THICKNESS.
7. ALLOWABLE DEFLECTION = L/240.



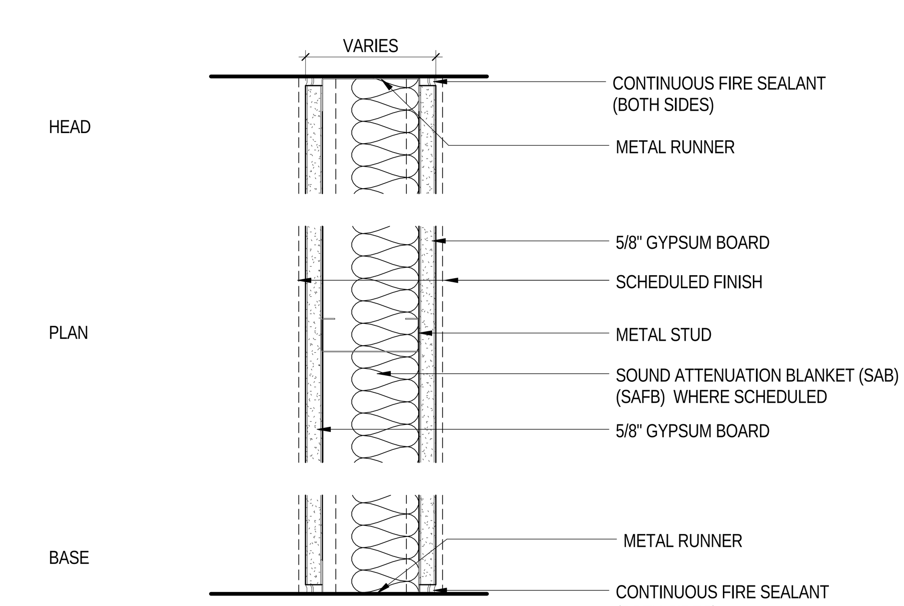
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
C1	3 5/8"	6 5/8"	2 HR	UL U423	61	SA-830628	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"
C2	4"	7"	2 HR	UL U423	61	ESTIMATE	25	12' - 10"	10' - 5"	9' - 1"	7' - 5"
C3	4"	7"	2 HR	UL U423	61	ESTIMATE	20	16' - 8"	14' - 7"	13' - 1"	10' - 8"
C4	6"	9"	2HR	UL U423	61	ESTIMATE	20	22' - 11"	18' - 11"	16' - 5"	13' - 5"

10 TYPE C - GWB PARTITION (2 HR)
SCALE: 3" = 1'-0"



WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
B1	2 1/2"	5"	2 HR	UL U419	56	USG-840819	20	11' - 7"	10' - 2"	9' - 2"	8' - 1"
B2	3 5/8"	6 1/8"	2 HR	UL U419	56	ESTIMATE	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"
B3	4"	6 1/2"	2 HR	UL U419	56	ESTIMATE	25	12' - 10"	10' - 5"	9' - 1"	7' - 5"
B4	4"	6 1/2"	2 HR	UL U419	56	ESTIMATE	20	16' - 8"	14' - 7"	13' - 1"	10' - 8"
B5	6"	8 1/2"	2 HR	UL U419	56	ESTIMATE	20	22' - 11"	18' - 11"	16' - 5"	13' - 5"

7 TYPE B - GWB PARTITION (2 HR)
SCALE: 3" = 1'-0"



WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
A1	2 1/2"	3 3/4"	1 HR	UL U419	47	SA-831001	20	11' - 7"	10' - 2"	9' - 2"	8' - 1"
A2	3 5/8"	4 7/8"	1 HR	UL U419	49	SA-870717	20	15' - 6"	13' - 6"	12' - 3"	10' - 2"
A3	4"	5 1/4"	1 HR	UL U419	49	ESTIMATE	25	12' - 10"	10' - 5"	9' - 1"	7' - 5"
A4	4"	5 1/4"	1 HR	UL U419	49	ESTIMATE	20	16' - 8"	14' - 7"	13' - 1"	10' - 8"
A5	6"	7 1/4"	1 HR	UL U419	49	ESTIMATE	20	22' - 11"	18' - 11"	16' - 5"	13' - 5"

4 TYPE A - GWB PARTITION (1HR)
SCALE: 3" = 1'-0"

WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
M6		8"	3	UL U907	-	-	-				

1 TYPE M - MASONRY WALL
SCALE: 3" = 1'-0"

WALDORF ASTORIA

301 Park Ave.
New York, NY 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

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NYC Buildings
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

REGISTERED ARCHITECT
KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	27 MAR 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
PARTITION TYPES

B-SCAN - DRAWING NUMBER
A-801.00

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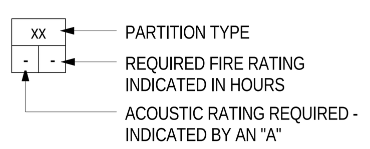
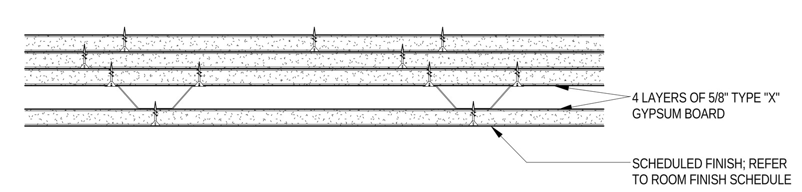
SHEET NOTES:

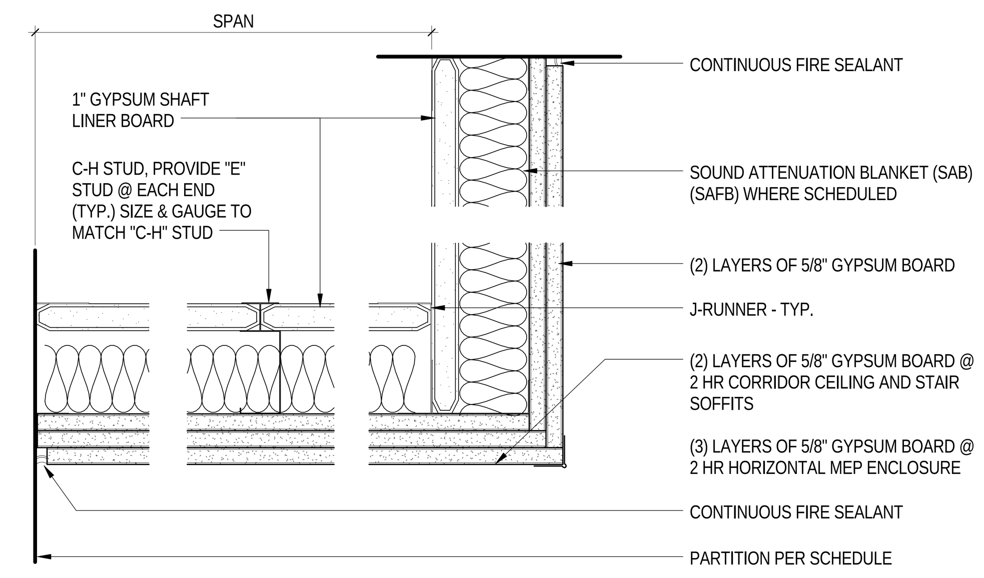
1. REFER TO OVERALL FLOOR PLANS AND CORE PLANS FOR PARTITION TYPES AND REQUIREDMINIMUM FIRE RATINGS
2. ALL GYPSUM BOARD AND STUDS ARE FULL HEIGHT, UNO.
3. ALL GYPSUM BOARD IS 5/8" TYP., UNO.
4. ALL FIRE RATED PARTITIONS TO BE TYPE 'X' GYPSUM BOARD.
5. USE WATER-RESISTANT GYPSUM BOARD ON PARTITION SCHEDULED TO RECEIVE CERAMIC TILE;EXCEPTION: SHOWERS TO RECEIVE CEMENTITIOUS BACKER BOARD.
6. PARTITIONS ARE DIMENSIONED FROM FACE GWB/CMU ON PLANS U.N.O.
7. GAUGE OF RUNNERS TO MATCH GAUGE OF STUDS.
8. STUD GAUGES SHOWN ARE MINIMUM REQUIRED.
9. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT SILL AND HEAD PARTITIONS WHERE AN STC RATING IS REQUIRED.
10. TAPE, BED, FLOAT, AND FINISH ALL GYPSUM BOARD CORNERS AND JOINTS READY FOR FINISH.
11. FOR FINISHES REFER TO FINISH SCHEDULE. COORDINATE FRAMING WITH FINISHES AS SHOWN IN THE DOCUMENTS.
12. PROVIDE CONTINUOUS CAULKING AT ALL DUCT PIPE AND CONDUIT PENETRATIONS THROUGHWALLS REQUIRING FIRE RATING AND ACOUSTICAL SEPARATION.
13. UL ASSEMBLIES ARE BASED ON 2005 FIRE RESISTANCE DIRECTORY.
14. SSMA REFERS TO STEEL STUD MANUFACTURERS ASSOCIATION. USG REFERS TO UNITED STATES GYPSUM BOARD COMPANY. GA REFERS TO THE GYPSUM ASSOCIATION.
15. PROVIDE SOUND ATTENUATION BLANKET (SAB) AND/OR SOUND ATTENUATION FIRE BLANKET (SAFB) AS REQUIRED TO OBTAIN FIRE RATING ASSEMBLY AND STC RATING WHERE SHOWN, SCHEDULED AND TAGGED.
16. SEE SPECIFICATION FOR ADDITIONAL PARTITION REQUIREMENTS.
17. PARTITION ASSEMBLIES ARE IDENTIFIED THROUGH THE FOLLOWING PARTITION TAG:



INSULATION SCHEDULE		
INSULATION THICKNESS	STUD SIZE	REMARK
1-1/2" *	1-5/8"	* SAFB AT FIRE RATED PARTITION
2" *	2"	* SAFB AT FIRE RATED PARTITION
3" *	3-5/8" AND ABOVE	* SAFB AT FIRE RATED PARTITION

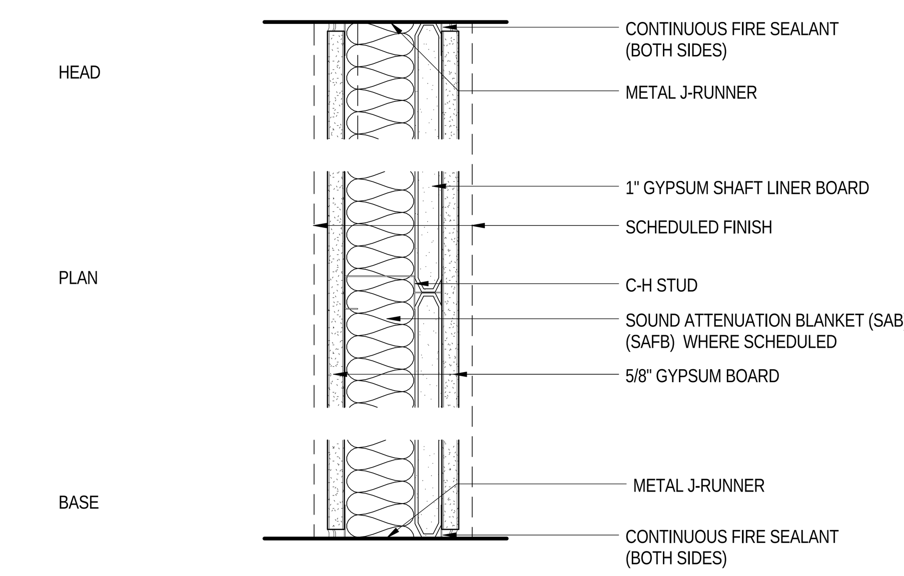


9 TYPE Y - STAIR SOFFIT ASSEMBLY (2 HR)
SCALE: 3" = 1'-0"



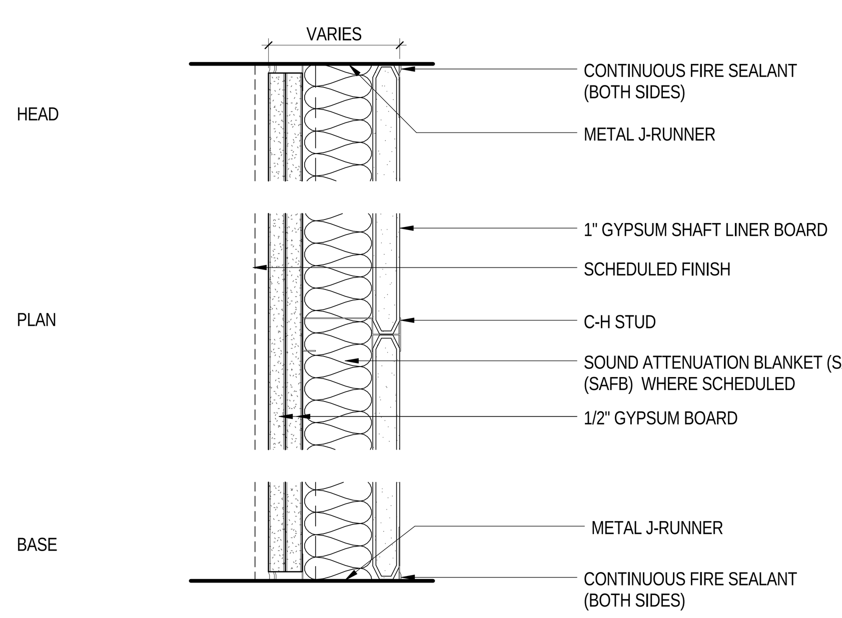
WALL TYPE	C-H STUD SIZE	GUAGE	LIMITING HORIZONTAL SPAN @ 24" O.C.	RATING	LIMITING HORIZONTAL SPAN @ 24" O.C	RATING	TEST REFERENCE
W2	4"			1 HR		2 HR	AER-09038
W3	6"			1 HR		2 HR	AER-09038

6 TYPE W - COLD FORMED HORIZONTAL SHAFT WALL
SCALE: 3" = 1'-0"



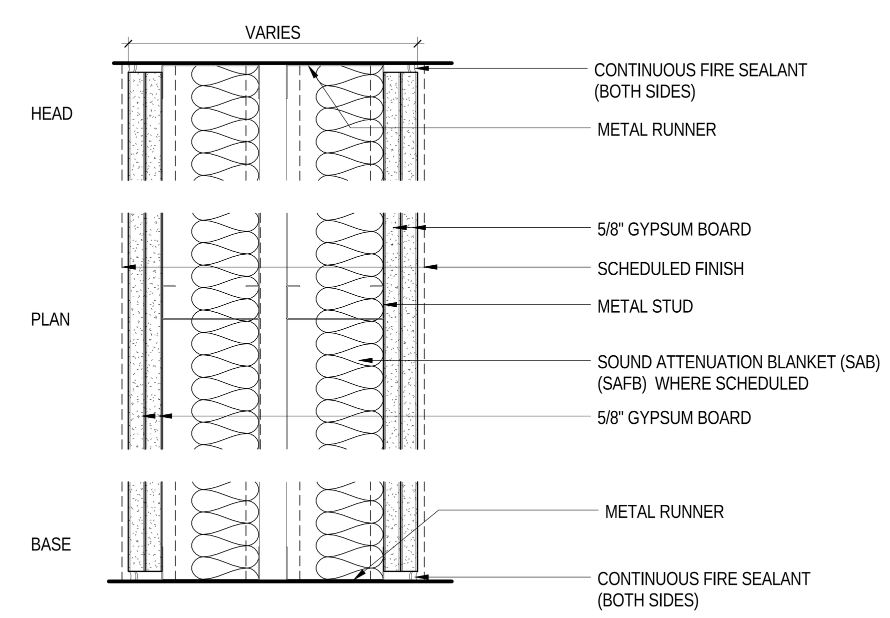
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
V1	4"	5"	2 HR	UL U415	44	USG-040911					
V2	6"	7"	2HR	UL U415	44	USG-040911					

3 TYPE V - COLD FORMED STAIR SHAFT WALL
SCALE: 3" = 1'-0"



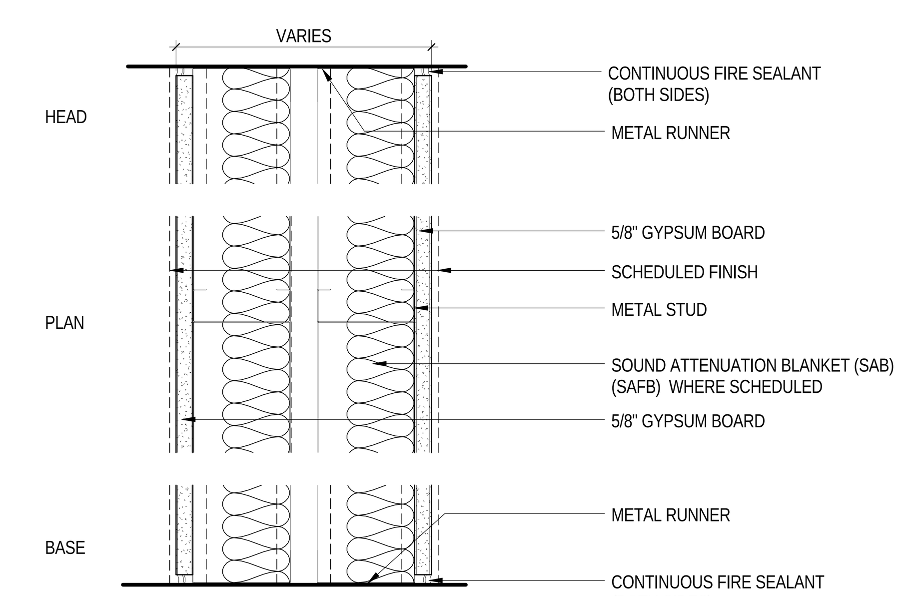
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
U1	4"	5"	2 HR	UL U415	50	OT-04-019					
U2	6"	7"	2HR	UL U415	50	OT-04-019					

11 TYPE U - COLD FORMED SHAFT WALL (2 HR)
SCALE: 3" = 1'-0"



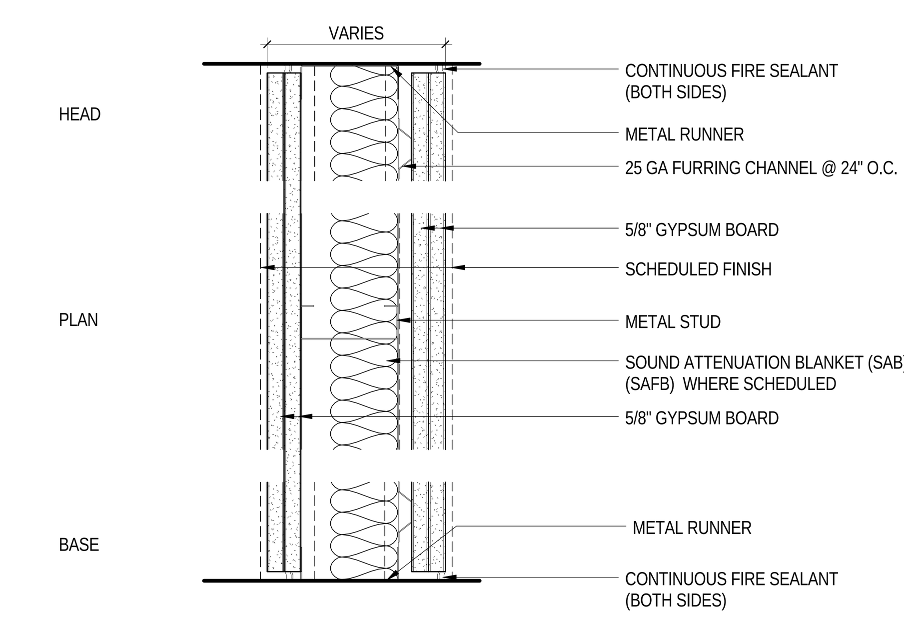
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
T1	2 1/2"	8 1/2"	2 HR	UL U493	60	USG-050819					
T2	3 5/8"	10 3/4"	2 HR	UL U493	60	USG-050819					

8 TYPE T - COLD FORMED DOUBLE STUD WALL (2 HR)
SCALE: 3" = 1'-0"



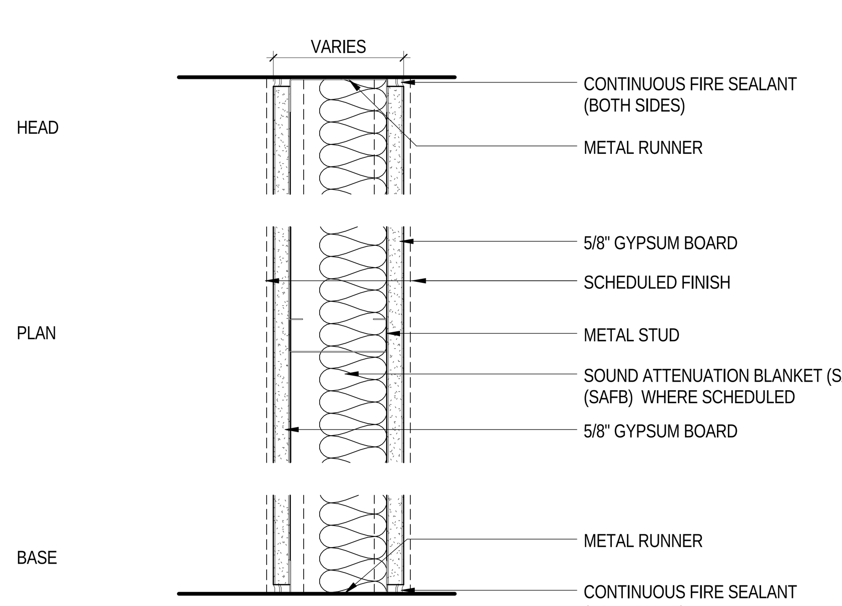
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
R1	3 5/8"	9 1/2"	1 HR	UL U493	57	TL-76-156					
R2	4"	10 1/4"	1 HR	UL U493	57	TL-76-156					

5 TYPE R - COLD FORMED DOUBLE STUD WALL (1 HR)
SCALE: 3" = 1'-0"



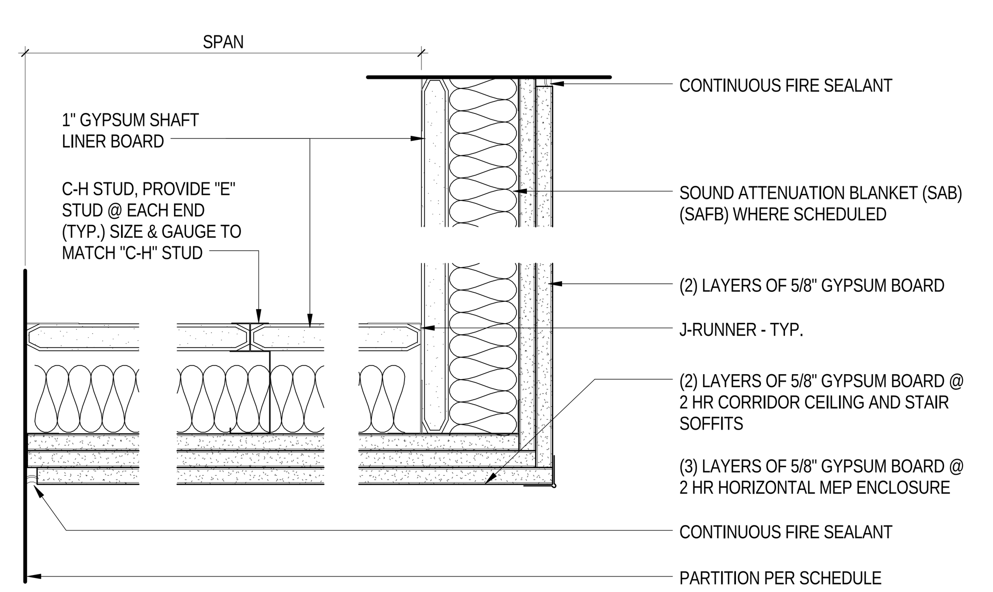
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
Q1	3 5/8"	6 5/8"	2 HR	UL U423	61	SA-830628					
Q2	4"	7"	2 HR	UL U423	61	ESTIMATE					

2 TYPE Q - COLD FORMED GWB PARTITION (2 HR)
SCALE: 3" = 1'-0"



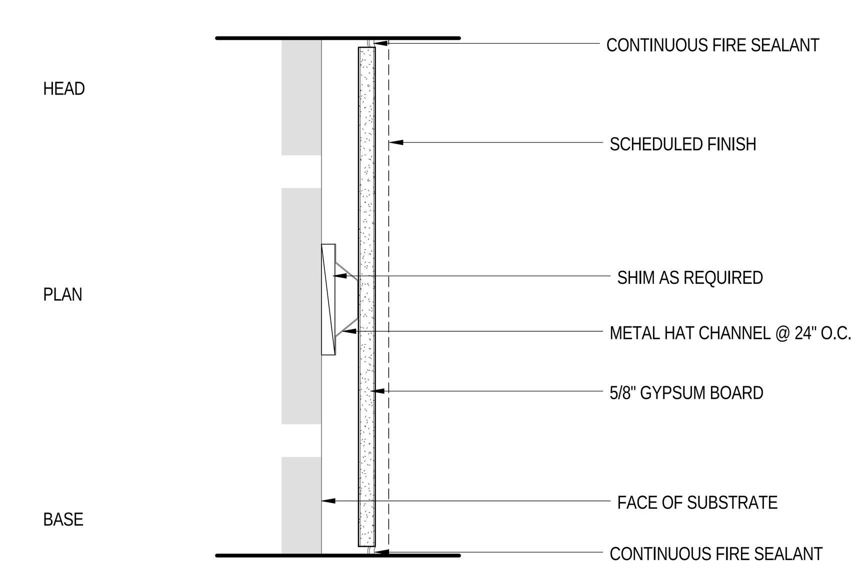
WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
P1	4"	5 1/4"	1 HR	UL U419	49	ESTIMATE					
P2	6"	7 1/4"	1 HR	UL U419	49	ESTIMATE					

10 TYPE P - COLD FORMED GWB PARTITION (1HR)
SCALE: 3" = 1'-0"



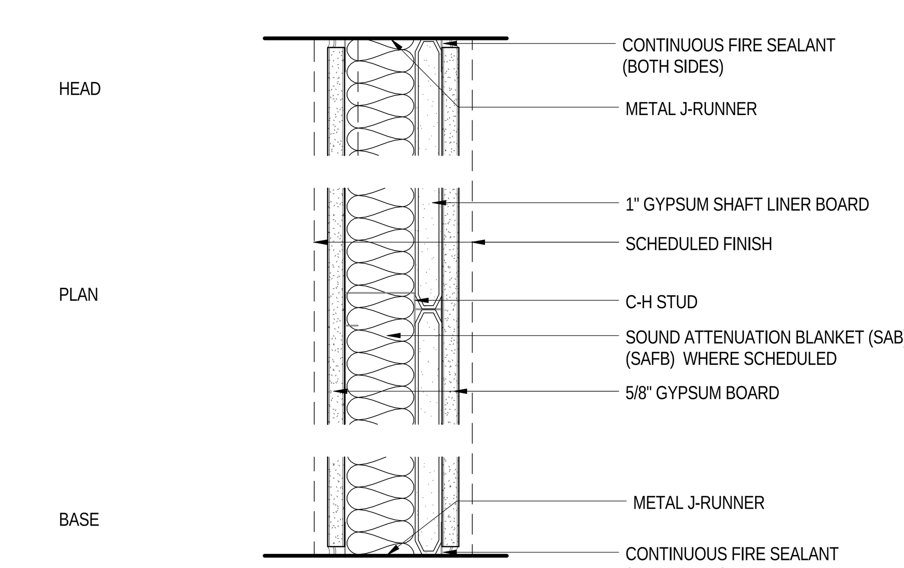
WALL TYPE	C-H STUD SIZE	GUAGE	LIMITING HORIZONTAL SPAN @ 24" O.C.	RATING	LIMITING HORIZONTAL SPAN @ 24" O.C	RATING	TEST REFERENCE
N1	2 1/2"	25	8' - 0"	1 HR	7' - 2"	2 HR	AER-09038
N2	2 1/2"	20	10' - 5"	1 HR	9' - 8"	2 HR	AER-09038
N3	4"	25	10' - 6"	1 HR	9' - 5"	2 HR	AER-09038
N4	4"	20	14' - 0"	1 HR	14' - 0"	2 HR	AER-09038
N5	6"	20	20' - 11"	1 HR	19' - 1"	2 HR	AER-09038
W1	2 1/2"			1 HR		2 HR	AER-09038

7 TYPE N - HORIZONTAL SHAFT WALL
SCALE: 3" = 1'-0"



WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
L1	7/8"	2"					20				
L2	1 1/2"	2 5/8"					20				

4 TYPE L - FURRING
SCALE: 3" = 1'-0"



WALL TYPE	STUD SIZE	OVERALL DIM	FIRE RATING	DESIGN NUMBER	ACOUSTIC RATING STC	ACOUSTIC RATING TEST REFERENCE	STUD GAUGE	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 16" O.C.	LIMITING HEIGHT - L/240 @ 5 PSF SPAN @ 24" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 16" O.C.	LIMITING HEIGHT - L/240 @ 10 PSF Span @ 24" O.C.
K1	2 1/2"	3 1/2"	2 HR	UL U415	44	USG-040911	25		11' - 2"		8' - 10"
K2	2 1/2"	3 1/2"	2 HR	UL U415	44	USG-040911	20		13' - 0"		10' - 4"
K3	4"	5"	2 HR	UL U415	44	USG-040911	25		15' - 2"		12' - 0"
K4	4"	5"	2 HR	UL U415	44	USG-040911	20		17' - 11"		14' - 3"
K5	6"	7"	2HR	UL U415	44	USG-040911	20		24' - 10"		19' - 9"

1 TYPE K - STAIR SHAFT WALL (2 HR)
SCALE: 3" = 1'-0"

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APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

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REGISTERED ARCHITECT KENNETH ADAM LEWIS No. 023335 STATE OF NEW YORK

NO.	DATE	DESCRIPTION
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
PARTITION TYPES

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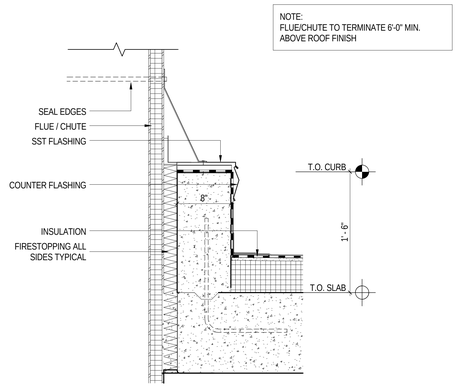
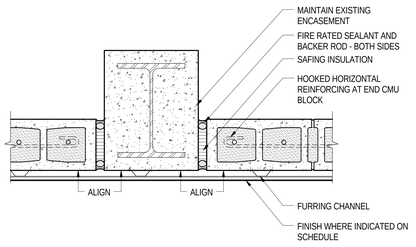


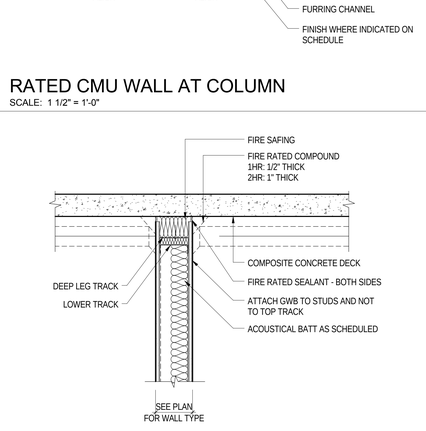
15 FLUE / CHUTE PENETRATION DETAIL - ROOF
SCALE: 1 1/2" = 1'-0"

14 CONTROL JOINT AT RATED CMU WALL
SCALE: 1 1/2" = 1'-0"

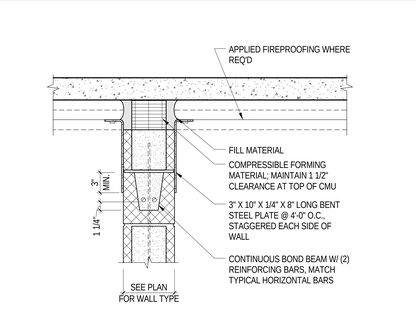


13 RATED CMU WALL AT COLUMN
SCALE: 1 1/2" = 1'-0"

17 PARTITION HEAD PERPENDICULAR TO DECK
SCALE: 1 1/2" = 1'-0"

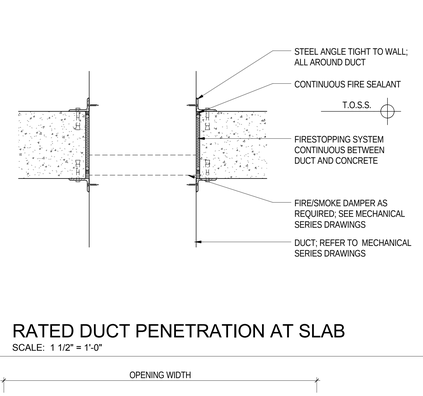


12 PARTITION HEAD PERPENDICULAR TO DECK
SCALE: 1 1/2" = 1'-0"

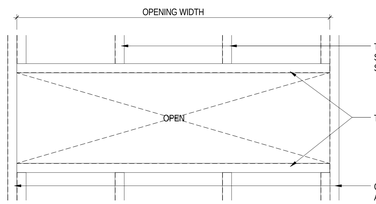


16 CMU SECTION DETAIL PERPENDICULAR TO DECK
SCALE: 1 1/2" = 1'-0"

11 CMU SECTION DETAIL PERPENDICULAR TO DECK
SCALE: 1 1/2" = 1'-0"

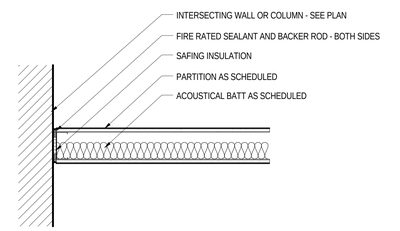


10 RATED DUCT PENETRATION AT SLAB
SCALE: 1 1/2" = 1'-0"

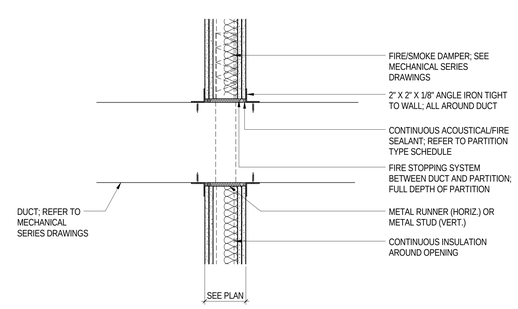


OPENING FRAMING SCHEDULE			
OPENING WIDTH	TOP & BOTTOM TRACK GAUGE	BRACING REQUIRED	CRIPPLE STUDS & ADJOINING STUDS
32"	TO MATCH PARTITION STUD GA.	NONE	TO MATCH PARTITION STUD GA.
48" TO 60"	20 GAUGE MIN.	NONE	20 GA. MIN
60" TO 120"	20 GAUGE NESTED TRACKS	DIAGONAL STUDS TO TOP TRACK @ 32" O.C. MAX.	20 GA. NESTED STUDS

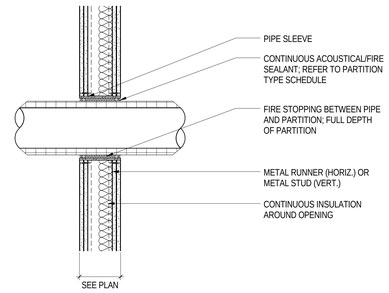
9 TYPICAL DUCT PENETRATION FRAMING
SCALE: 1 1/2" = 1'-0"



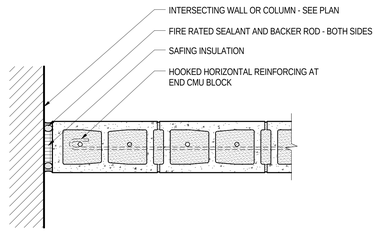
8 RATED GWB PARTITION DETAIL AT WALL
SCALE: 1 1/2" = 1'-0"



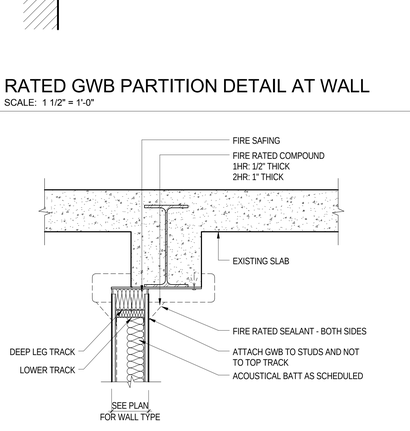
5 RATED PARTITION AT DUCT PENETRATION
SCALE: 1 1/2" = 1'-0"



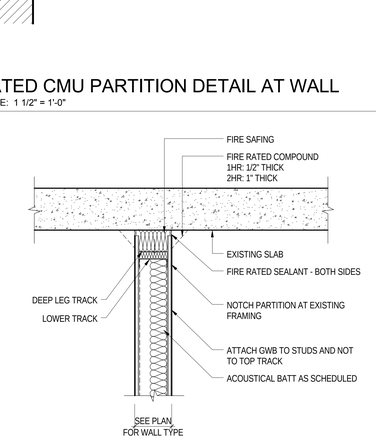
4 RATED PARTITION AT PIPE PENETRATION
SCALE: 1 1/2" = 1'-0"



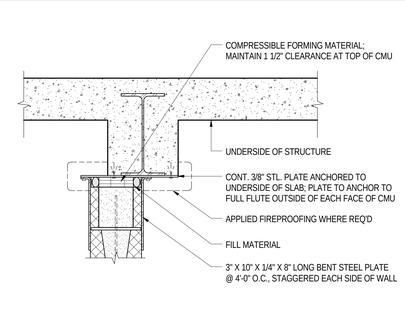
3 RATED CMU PARTITION DETAIL AT WALL
SCALE: 1 1/2" = 1'-0"



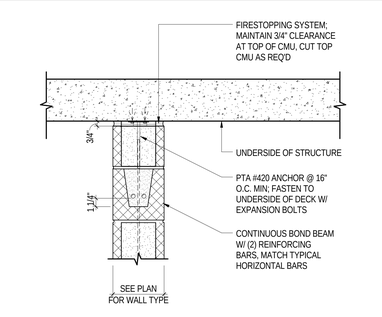
7 RATED PARTITION OFFSET FROM EXISTING BEAM
SCALE: 1 1/2" = 1'-0"



2 RATED PARTITION AT EXISTING SLAB
SCALE: 1 1/2" = 1'-0"



6 CMU SECTION DETAIL AT HEAD - EXISTING BEAM
SCALE: 1 1/2" = 1'-0"



1 CMU SECTION DETAIL AT HEAD - EXISTING SLAB
SCALE: 1 1/2" = 1'-0"

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Azmi Zahed-Atkins, RA
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

REGISTERED ARCHITECT
KENNETH ADAM TOBEY
No. 025935
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	20 JUN 2017	ISSUED TO DOB
1	10 FEB 2017	ISSUED TO DOB

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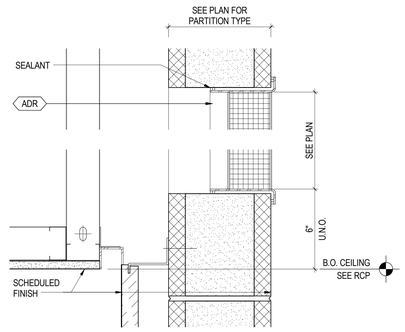
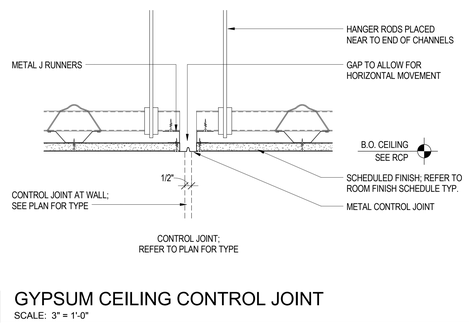
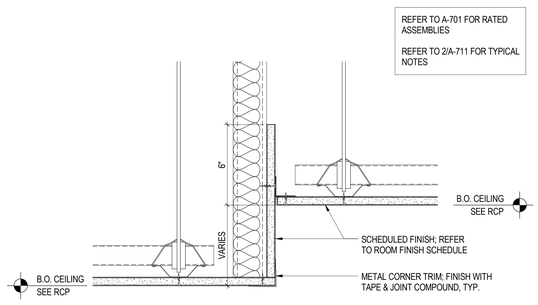


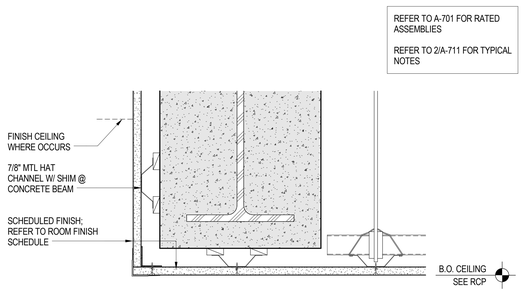
8 TYPICAL SECTION @ ACCESS DOOR
SCALE: 3" = 1'-0"



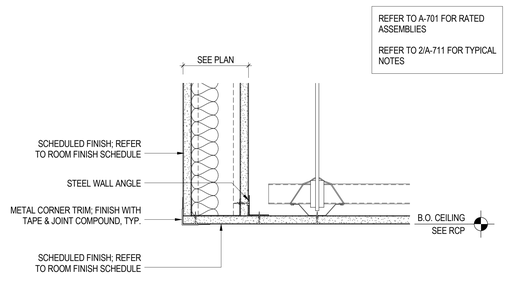
5 GYPSUM CEILING CONTROL JOINT
SCALE: 3" = 1'-0"



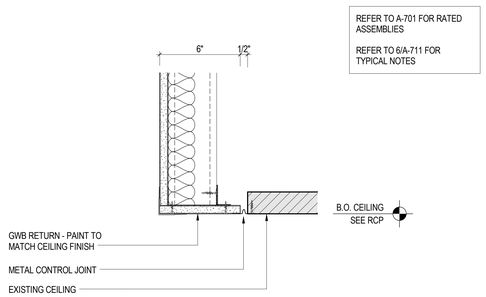
2 GYPSUM TO GYPSUM CEILING
SCALE: 3" = 1'-0"



10 GYPSUM SOFFIT AT EXISTING BEAM
SCALE: 3" = 1'-0"



7 GYPSUM SOFFIT
SCALE: 3" = 1'-0"



4 GYPSUM SOFFIT @ EXISTING CEILING
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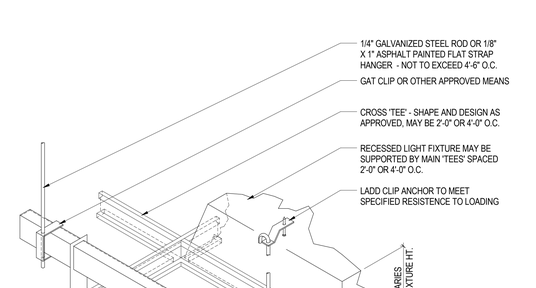
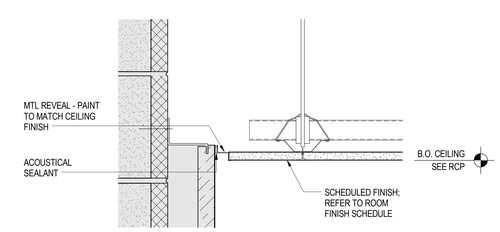
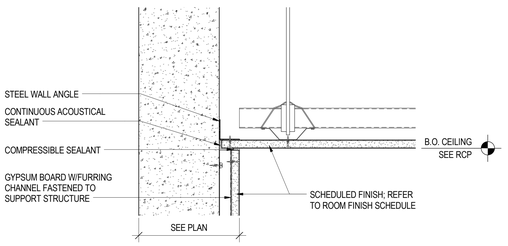


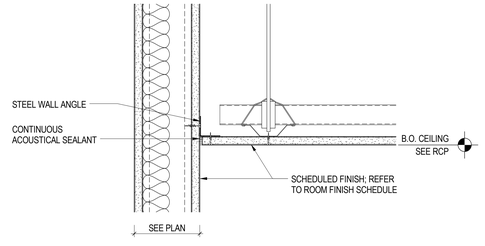
1 HUNG CEILING SUSPENSION SYSTEM DIAGRAM
SCALE: 3" = 1'-0"



9 GYPSUM ASSEMBLY @ EXISTING STONE PARTITION
SCALE: 3" = 1'-0"



6 GYPSUM ASSEMBLY @ MASONRY PARTITION
SCALE: 3" = 1'-0"



3 GYPSUM ASSEMBLY @ PARTITION
SCALE: 3" = 1'-0"

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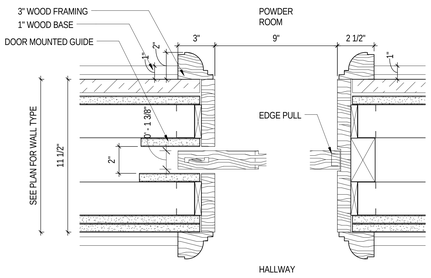
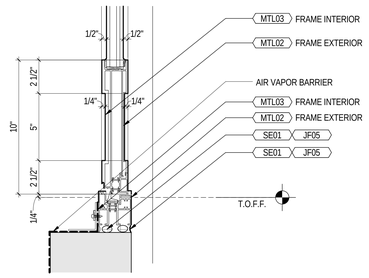


12 POCKED DOOR PLAN DETAIL
SCALE: 3" = 1'-0"

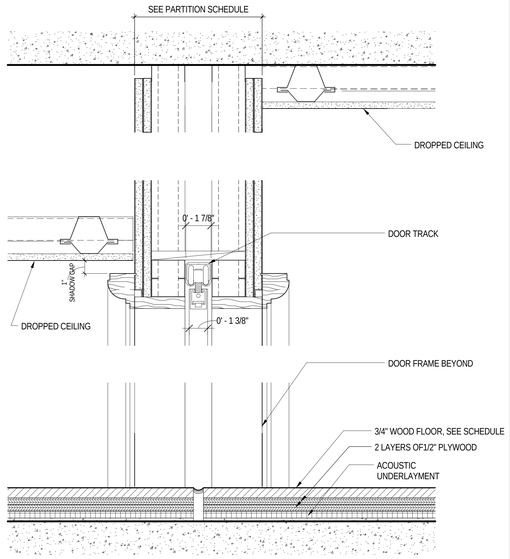


9 SECTION DETAIL
SCALE: 3" = 1'-0"

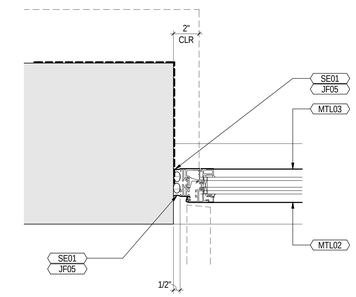
DOOR SCHEDULE

DOOR							DETAIL			FIRE	
NUMBER	WIDTH	HEIGHT	THICKNE...	MATERI...	TYPE	MATERI...	TYPE	HEAD	JAMB	SILL	RATING	COMMENTS
R01	1' - 5"	8' - 0"	0' - 1 3/4"	HM	1	HM	1	6	4	3	90	SEE NOTE 1
R02	3' - 6"	8' - 0"	0' - 1 3/4"	HM	1	HM	1	6	4	3	90	SEE NOTE 1
R03	3' - 8"	8' - 0"	0' - 1 3/4"	HM	1	HM	1	6	4	3	90	SEE NOTE 1
R05	3' - 0"	8' - 0"	0' - 1 3/4"	HM	1	HM	1	6	4	3	90	SEE NOTE 1
R06	6' - 0"	8' - 0"	0' - 1 3/4"	HM	2	HM	2	6	4	3	90	SEE NOTE 1
R07	6' - 0"	8' - 0"	0' - 1 3/4"	HM	2	HM	2	6	4	3	90	SEE NOTE 1
R11	2' - 11"	8' - 0"	0' - 1 3/4"	WD	1	WD	1	10	10	3	NR	
R12	2' - 5"	8' - 0"	0' - 1 3/4"	WD	1	WD	1	10	10	3	NR	
R13	1' - 6"	8' - 0"	0' - 1 3/4"	WD	1	WD	1	10	10	3	NR	
R14	2' - 0"	8' - 0"	0' - 1 3/4"	WD	1	WD	1	10	10	3	NR	
R15	2' - 6"	8' - 0"	0' - 1 3/4"	WD	1	WD	1	10	10	3	NR	
R16	3' - 0"	8' - 0"	0' - 1 3/4"	WD	1	WD	1	10	10	3	NR	
R17	2' - 0"	8' - 0"	0' - 1 3/4"	WD	1	WD	1	10	10	3	NR	
R18	2' - 6"	8' - 0"	0' - 1 3/4"	WD	2	WD	2	10	10	3	NR	
R19	3' - 0"	8' - 0"	0' - 1 3/4"	WD	2	WD	2	10	10	3	NR	
R20	4' - 0"	8' - 0"	0' - 1 3/4"	WD	2	WD	2	10	10	3	NR	
R21	5' - 0"	8' - 0"	0' - 1 3/4"	WD	2	WD	2	10	10	3	NR	
R22	6' - 0"	8' - 0"	0' - 1 3/4"	WD	2	WD	2	10	10	3	NR	
R23	2' - 10"	8' - 0"	0' - 3"	WD	1	WD	1	10	10	3	NR	
R25	2' - 10"	8' - 0"	0' - 3"	WD	1	WD	1	11	12	11	NR	
R26	3' - 0"	8' - 0"	0' - 3"	WD	1	WD	1	11	12	11	NR	
R27	3' - 6"	8' - 0"	0' - 3"	WD	1	WD	1	11	12	11	NR	
R28	4' - 0"	8' - 0"	0' - 3"	WD	1	WD	1	11	12	11	NR	
R29	4' - 0"	8' - 0"	0' - 3"	WD	1	WD	1	11	12	11	NR	
R30	5' - 3"	8' - 0"	0' - 3"	WD	1	WD	1	11	12	11	NR	
R31	5' - 3"	8' - 0"	0' - 3"	WD	1	WD	1	11	12	11	NR	
R32	3' - 11"	8' - 0"	0' - 3"	WD	1	WD	1	11	12	11	NR	
R33	1' - 5"	8' - 0"	0' - 1 3/4"	WD	1	WD	1	10	10	3	NR	
R50	3' - 4"	8' - 2"	DETAILS	GL	1	DETAILS	3	7	8	9	NR	
R51	3' - 4"	9' - 2"	DETAILS	GL	1	DETAILS	3	7	8	9	NR	
R21	3' - 5"	8' - 2"	DETAILS	GL	1	DETAILS	3	7	8	9	NR	
S05	3' - 0"	8' - 0"	0' - 1 3/4"	WD	1	HM	1	6	4	3	NR	
S06	6' - 0"	8' - 0"	0' - 1 3/4"	WD	2	HM	2	6	4	3	NR	

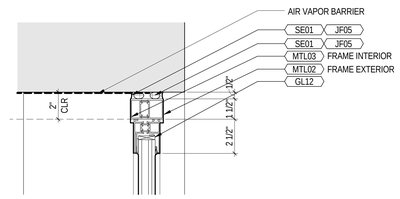
NOTE 1 PER BC 3007.6, ALL DOORS OPENING ONTO CORRIDORS PROVIDING ACCESS TO THE FSAE SHALL BE SMOKE AND DRAFT CONTROLLED DOORS COMPLYING WITH BC SECTION 715.4.3.1 WITH THE UL 1784 TEST CONDUCTED WITHOUT ARTIFICIAL BOTTOM SEAL. SMOKE AND DRAFT CONTROLLED DOORS SHALL BE INSTALLED, INSPECTED, TESTED, AND MAINTAINED IN ACCORDNACE WITH NFPA80 AND NFPA 105



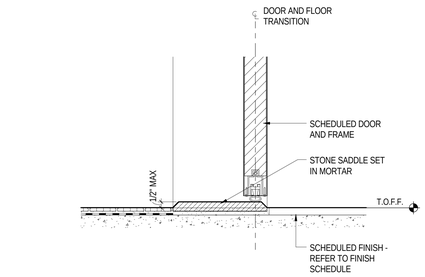
11 POCKET DOOR SECTION DETAIL
SCALE: 3" = 1'-0"



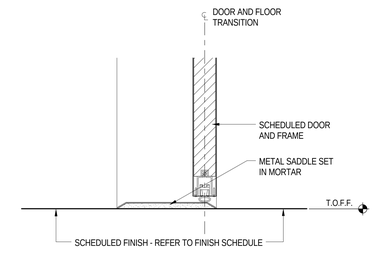
8 PLAN DETAIL
SCALE: 3" = 1'-0"



7 SECTION DETAIL
SCALE: 3" = 1'-0"



5 TYPICAL DOOR SILL DETAIL AT CERAMIC TILE1
SCALE: 3" = 1'-0"



3 TYPICAL DOOR SILL DETAIL
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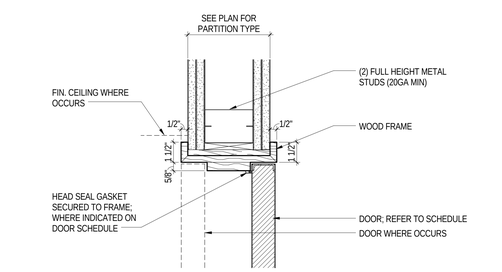
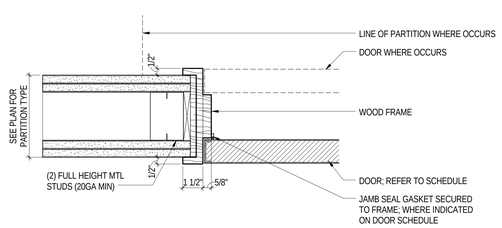
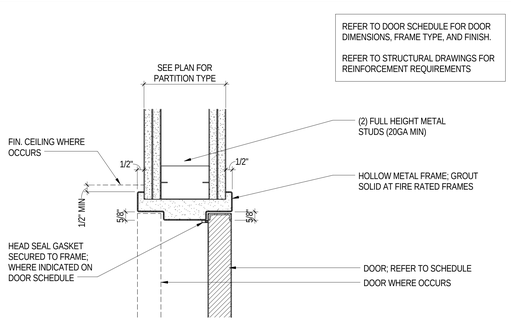
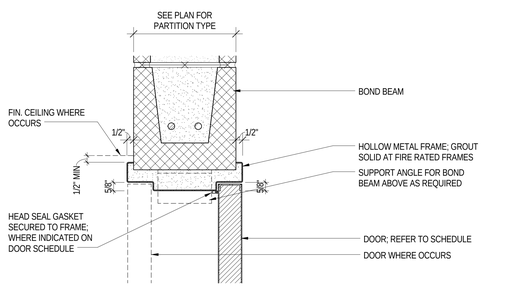


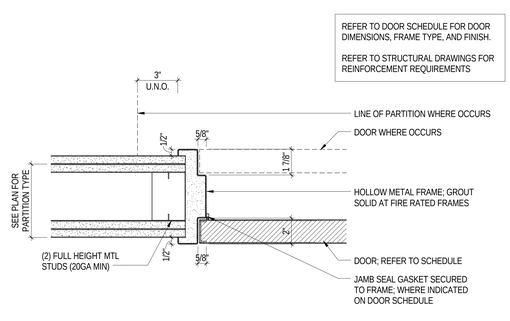


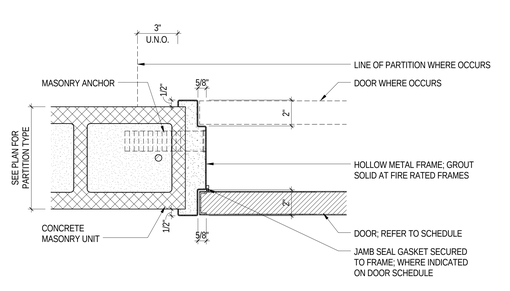
10 TYP WOOD DOOR DETAILS
SCALE: 3" = 1'-0"



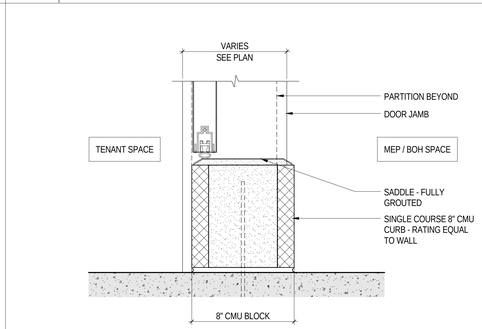


6 TYPICAL DOOR HEADER DETAIL1
SCALE: 3" = 1'-0"





4 TYPICAL DOOR JAMB DETAIL1
SCALE: 3" = 1'-0"



2 DOOR DETAIL AT CURB1
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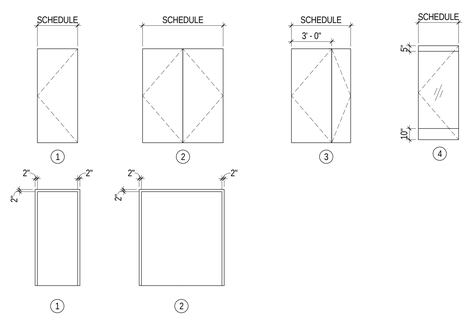

1 DOOR & FRAME TYPES
SCALE: 1/4" = 1'-0"

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AZMI ZAHED ATKINS
No. 023235
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DOOR DETAILS

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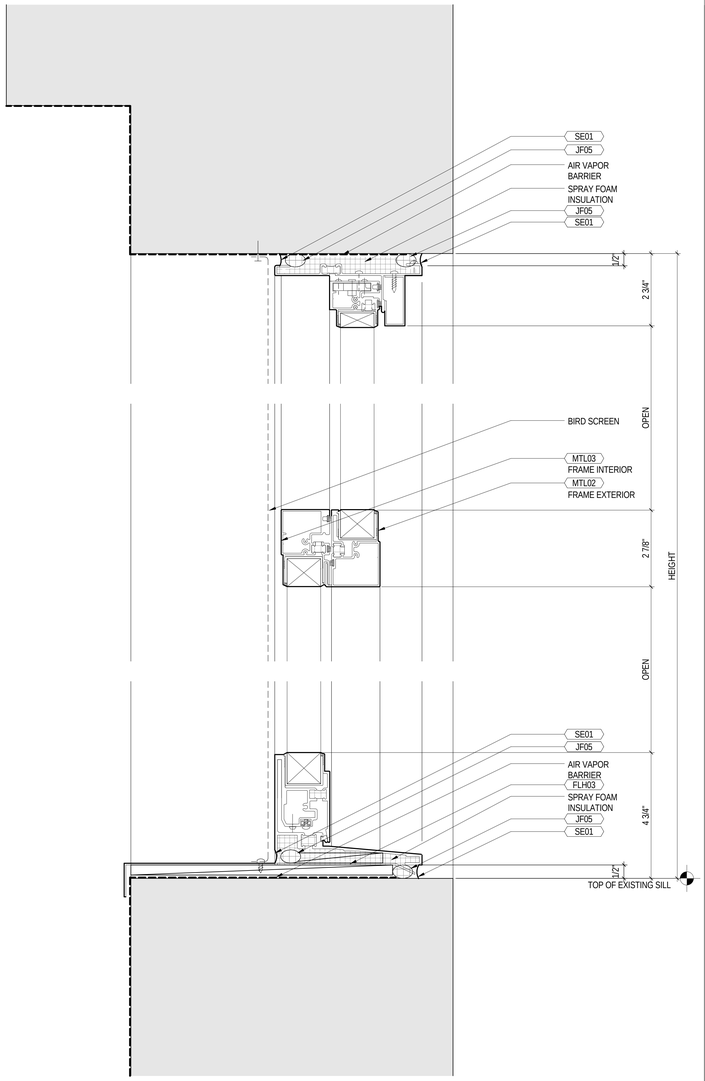

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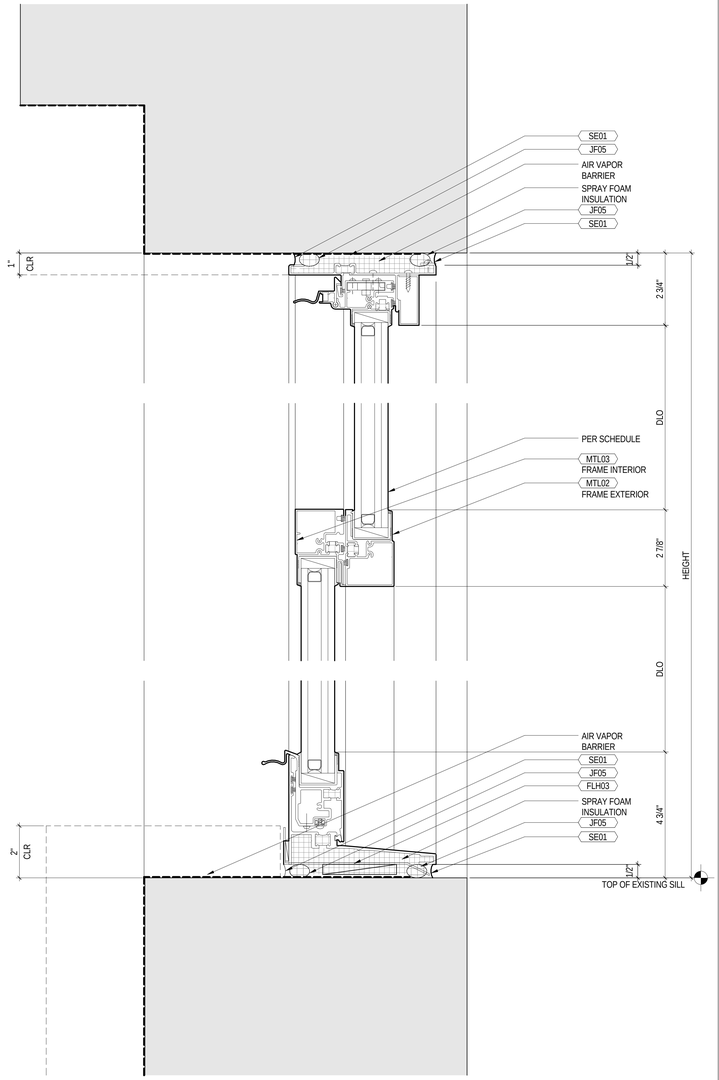

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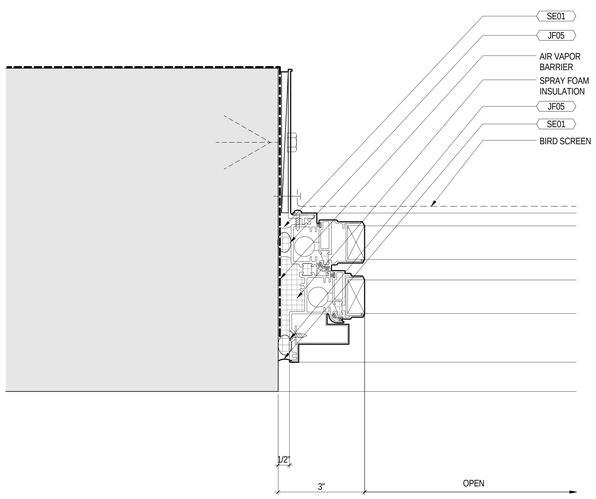

4 PLAN DETAIL
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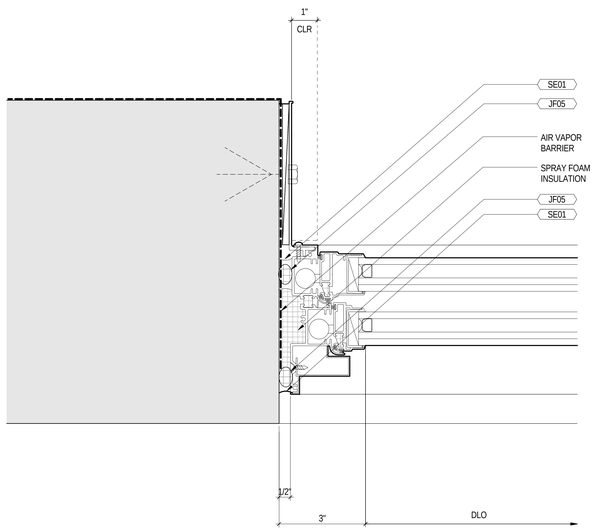

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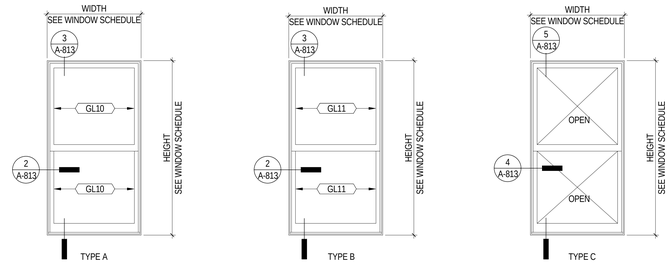

WINDOW SCHEDULE				
NUMBER	TYPE	WIDTH	HEIGHT	OPERABLE
100	A	3' - 0"	6' - 6"	Yes
101	A	3' - 3"	6' - 6"	Yes
102	A	3' - 6"	6' - 6"	Yes
103	A	4' - 0"	6' - 6"	Yes
104	A	6' - 8"	6' - 6"	Yes
200	A	3' - 0"	7' - 6"	Yes
202	A	3' - 6"	7' - 6"	Yes
203	A	4' - 0"	7' - 6"	Yes
302	B	3' - 6"	6' - 6"	No
303	B	4' - 0"	6' - 6"	No
400	C	3' - 0"	6' - 6"	No
402	C	3' - 6"	6' - 6"	No
403	C	4' - 0"	6' - 6"	No
500	C	3' - 0"	7' - 6"	No
502	C	3' - 6"	7' - 6"	No
503	C	4' - 0"	7' - 6"	No

GENERAL NOTE : HEIGHT AND WIDTH INDICATE ROUGH OPENING

1 WINDOW SCHEDULE AND LEGEND

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Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

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KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

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WINDOW DETAILS

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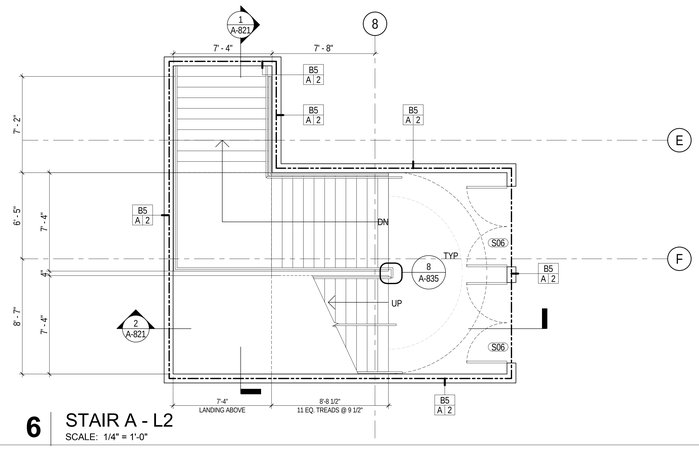

6 STAIR A - L2
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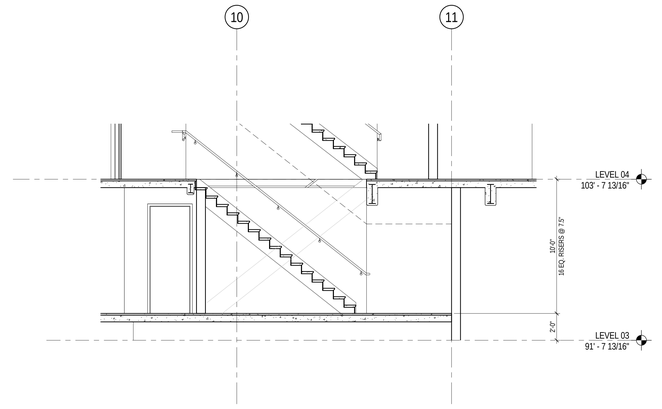

3 STAIRS A & C - E/W SECTION L3
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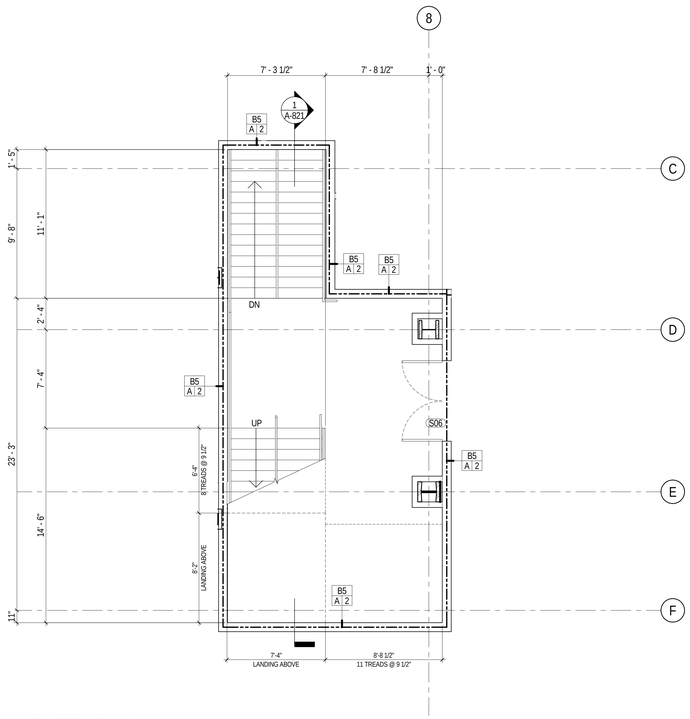

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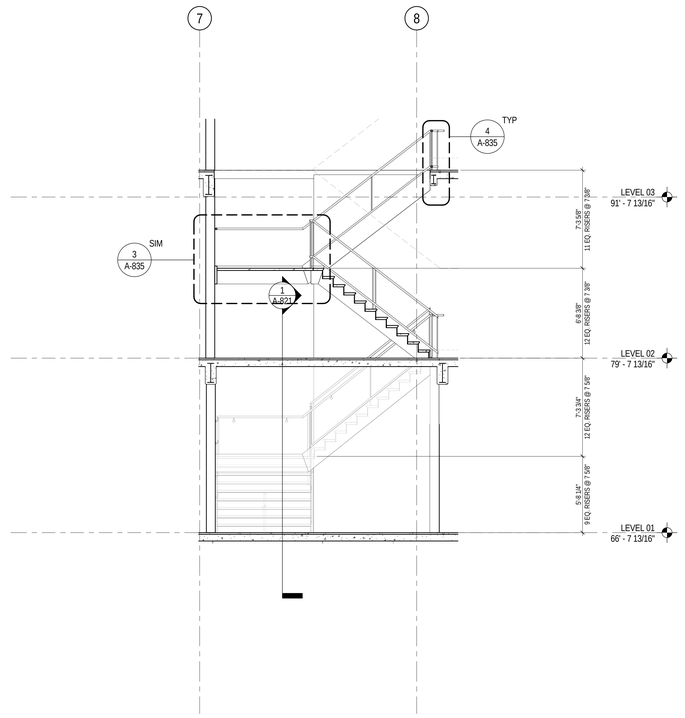

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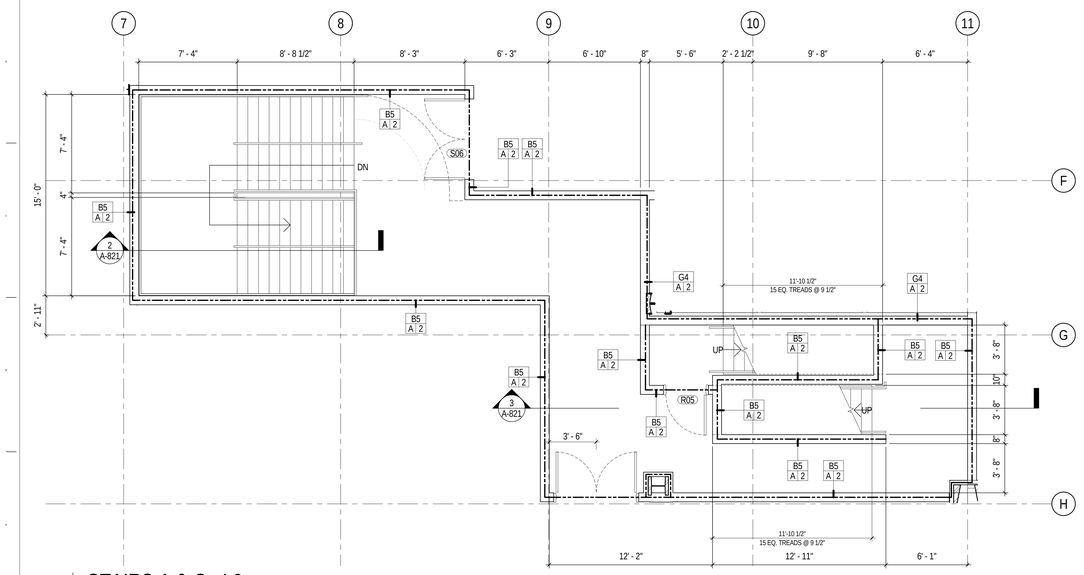

7 STAIRS A & C - L3
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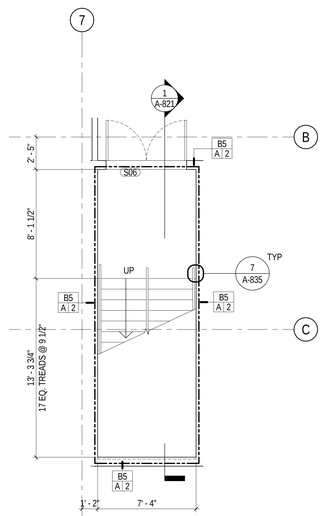
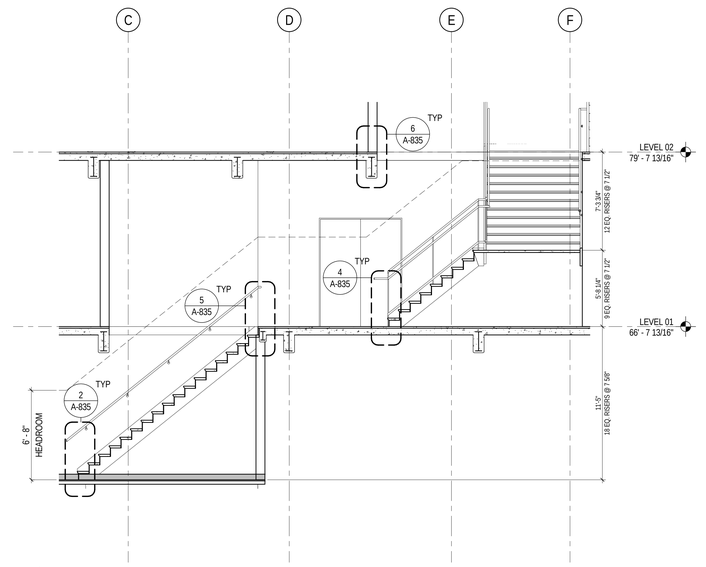


4 STAIR A - BASEMENT
SCALE: 1/4" = 1'-0"



1 STAIR A - N/S SECTION BASEMENT-L1
SCALE: 1/4" = 1'-0"

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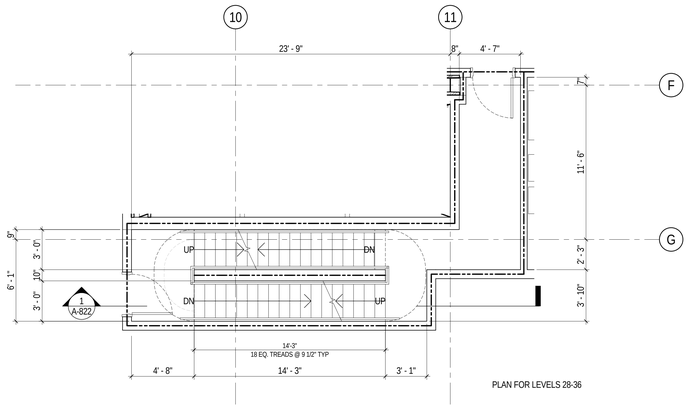
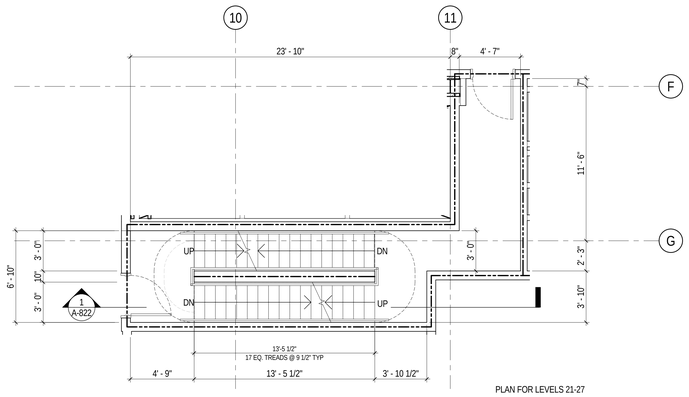


PLAN FOR LEVELS 28-36



PLAN FOR LEVELS 21-27

8 STAIRS A & C - L21-36
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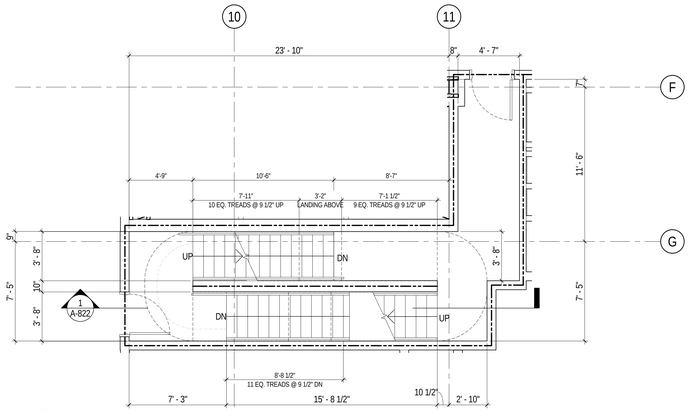

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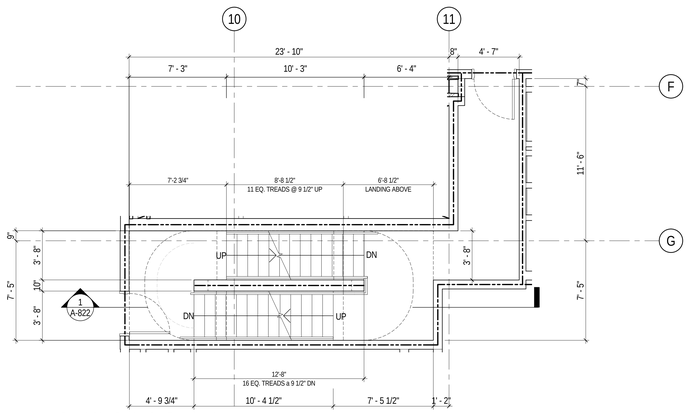

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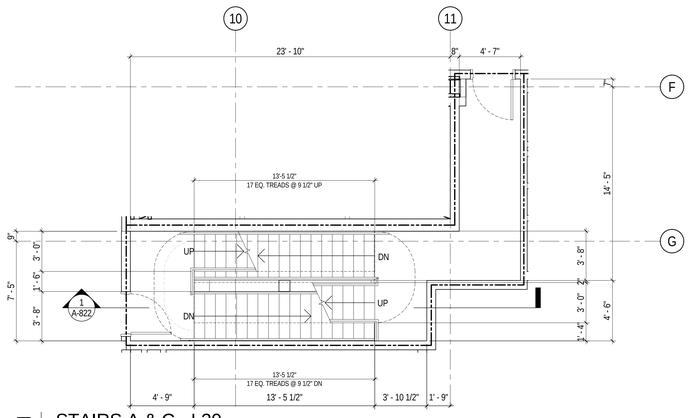

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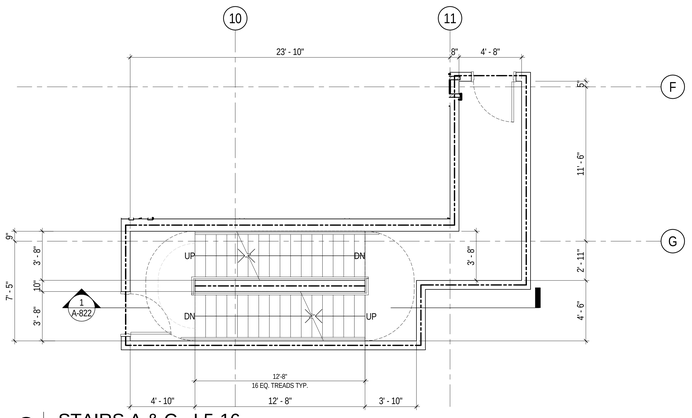

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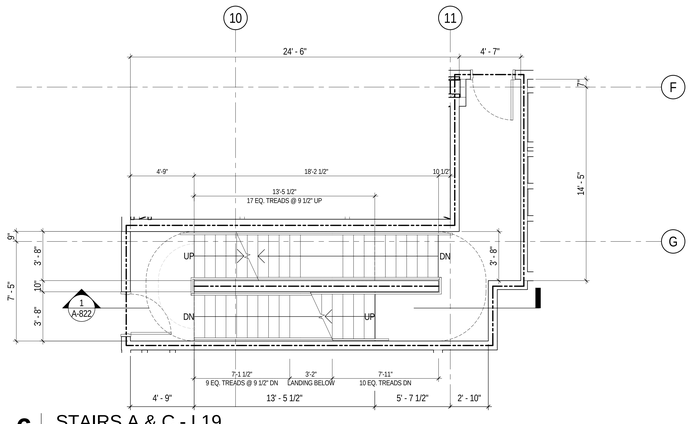

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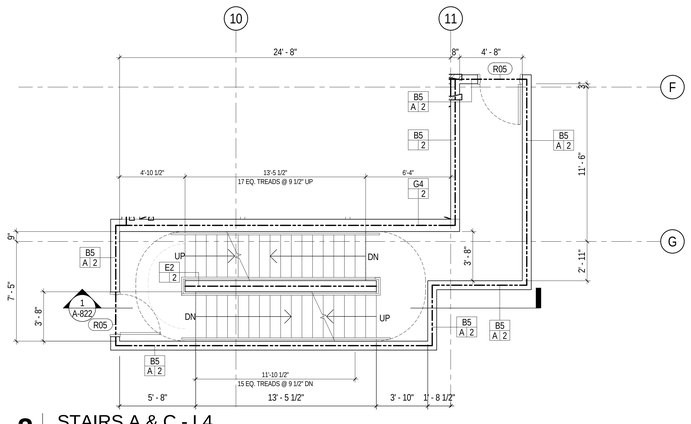

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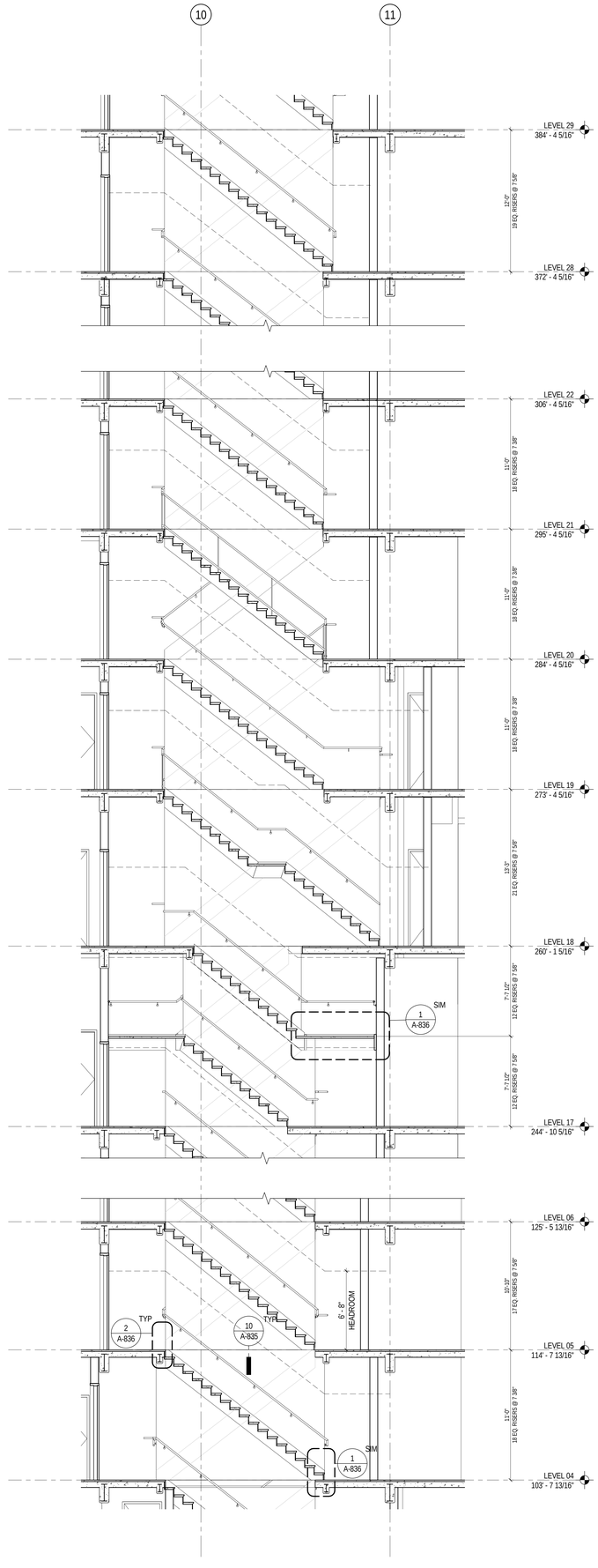

1 STAIRS A & C - E-W SECTION L4-20
SCALE: 1/4" = 1'-0"

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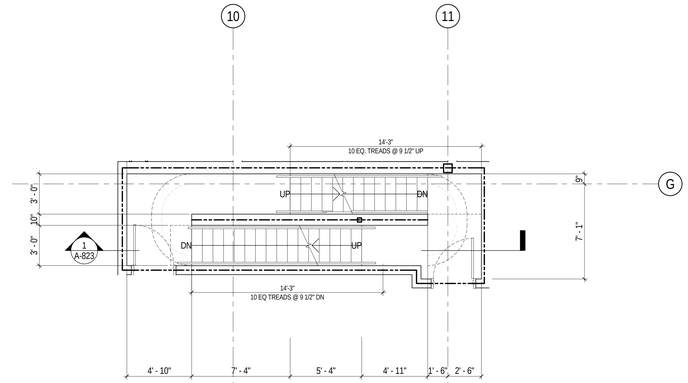

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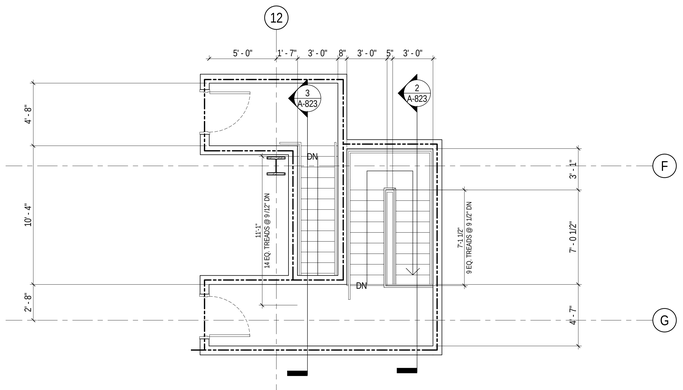

10 STAIR A & C - L43
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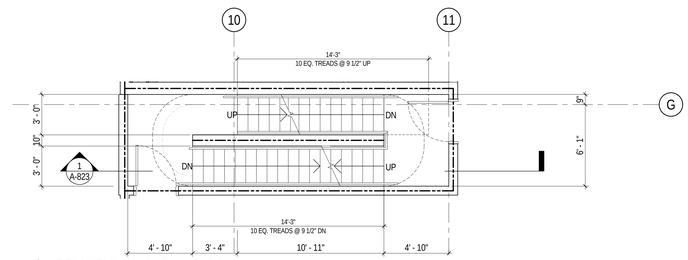

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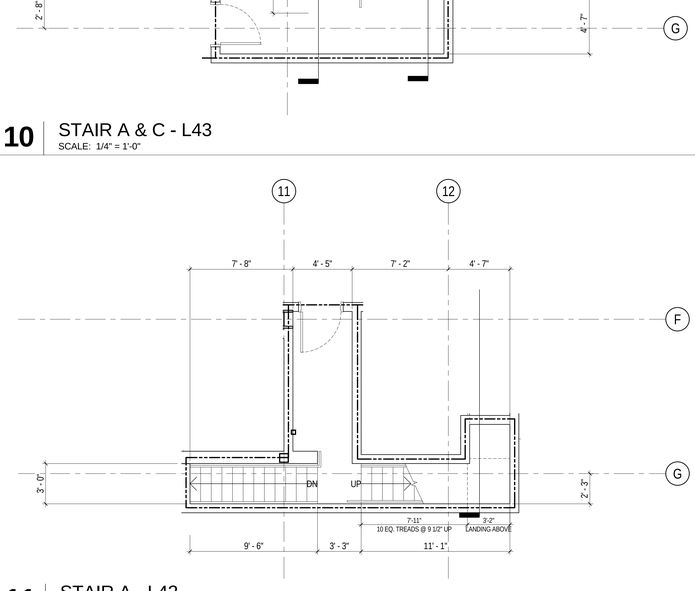
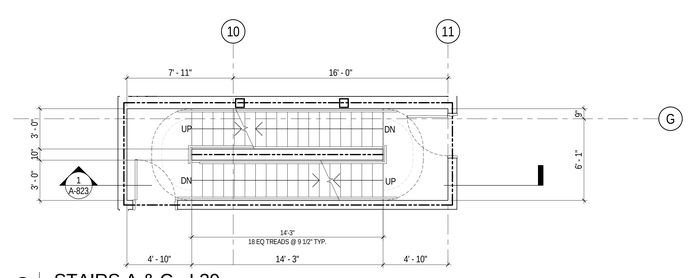


11 STAIR A - L42
SCALE: 1/4" = 1'-0"



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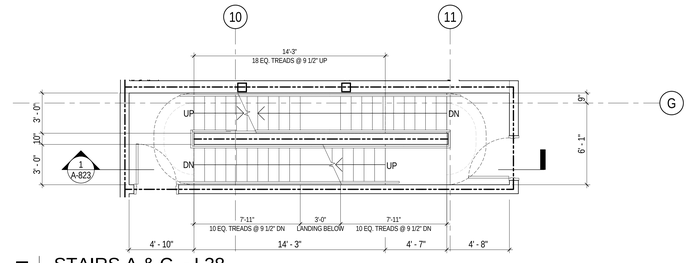

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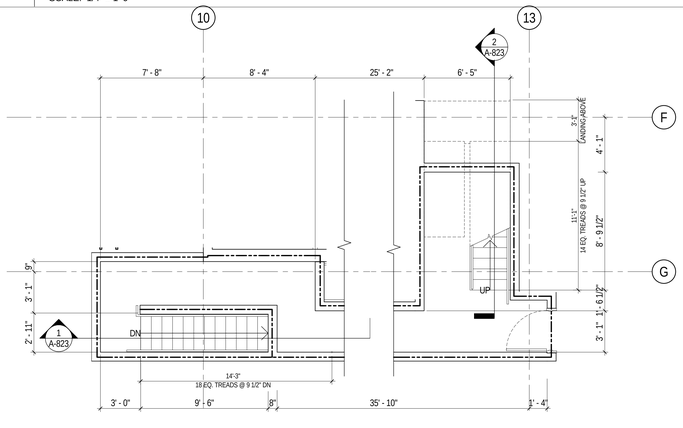

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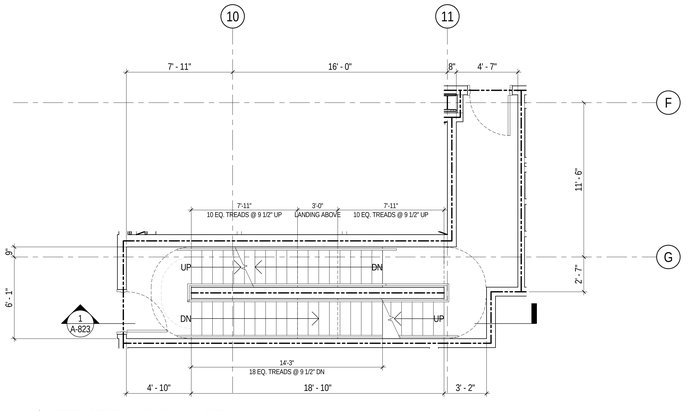

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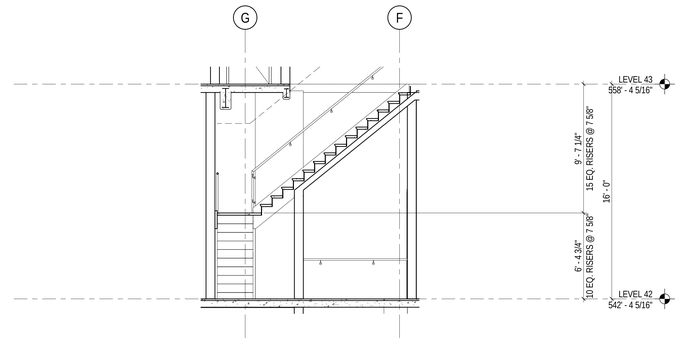

3 STAIR A- E/W SECTION L42
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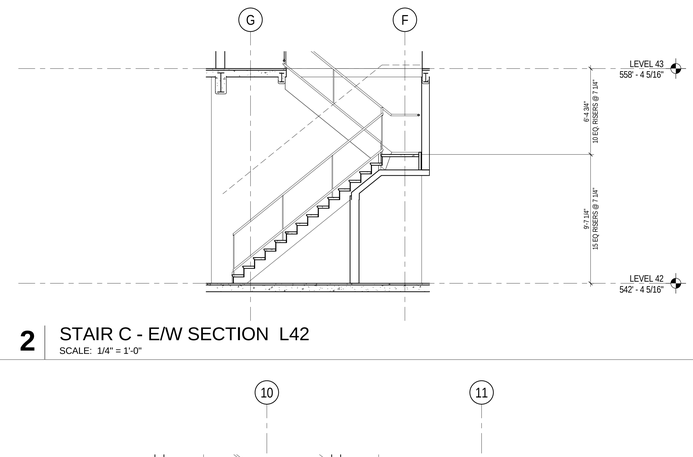

2 STAIR C - E/W SECTION L42
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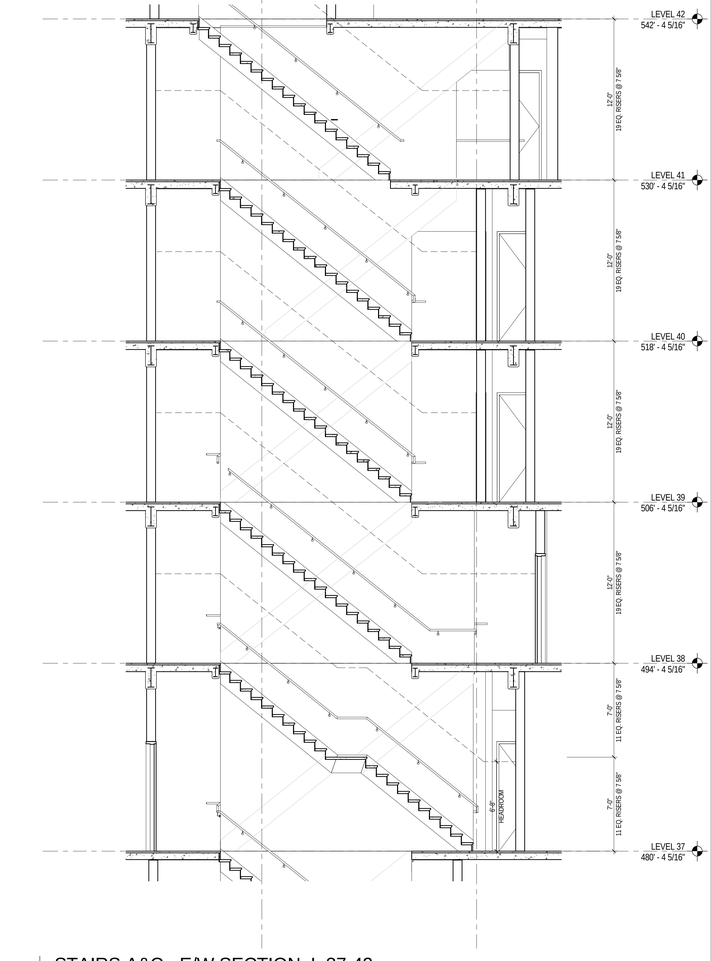

1 STAIRS A&C - E/W SECTION L 37-42
SCALE: 1/4" = 1'-0"

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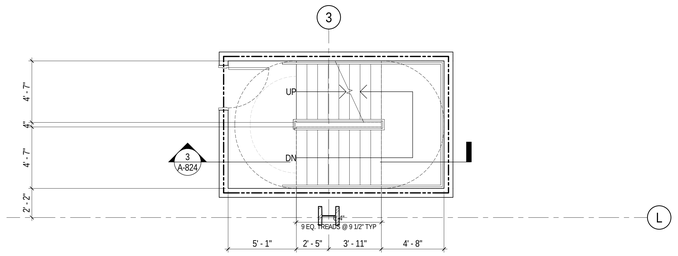

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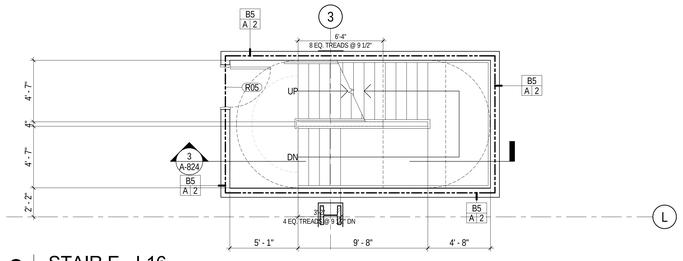

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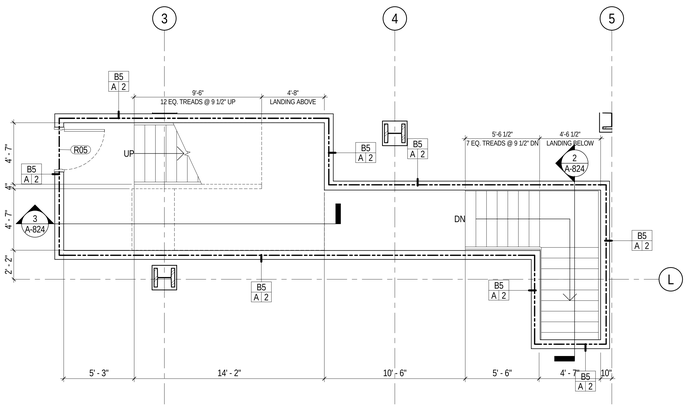

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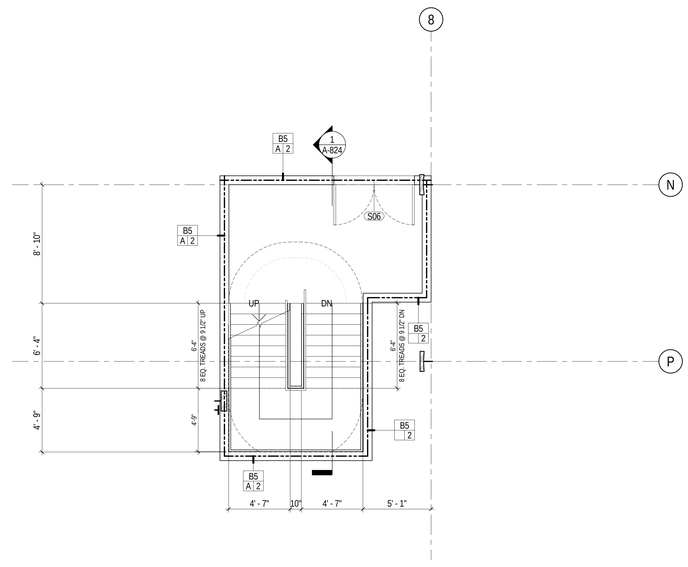

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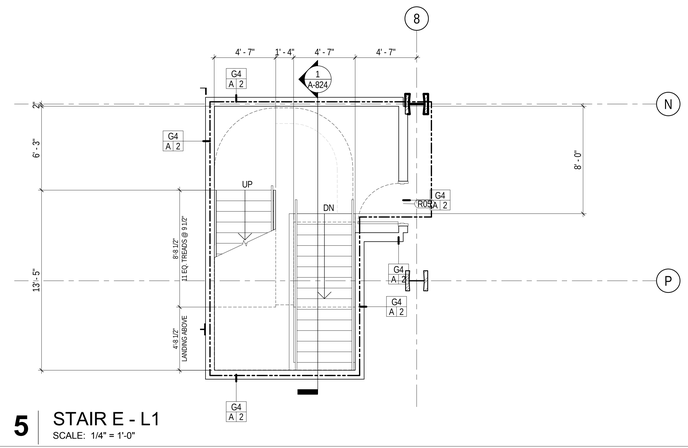

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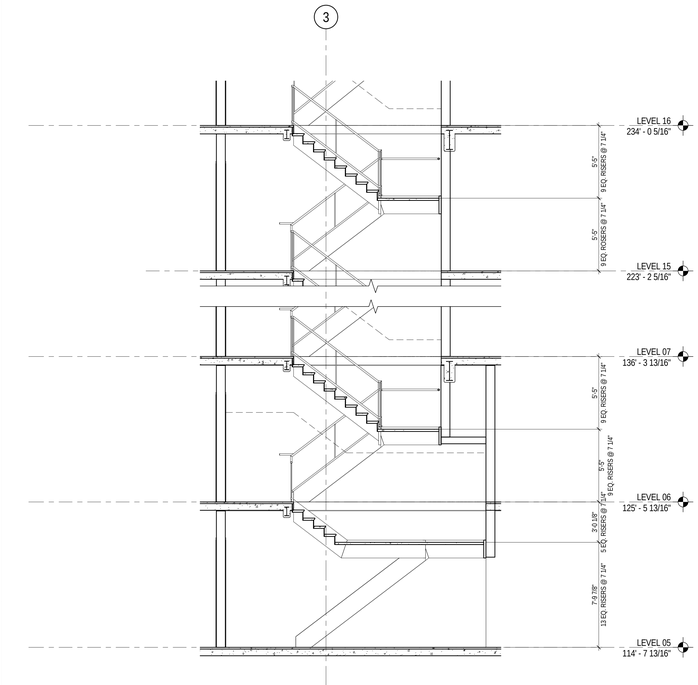

3 STAIR E - E-W SECTION L5-16
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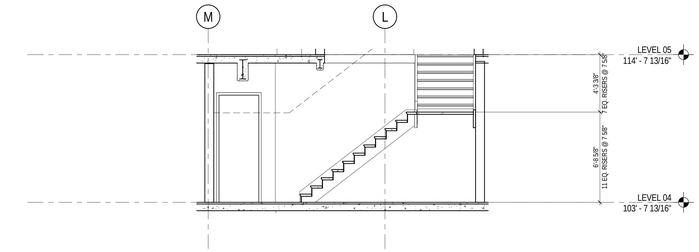

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1 STAIR E - N-S SECTION BASEMENT - L3
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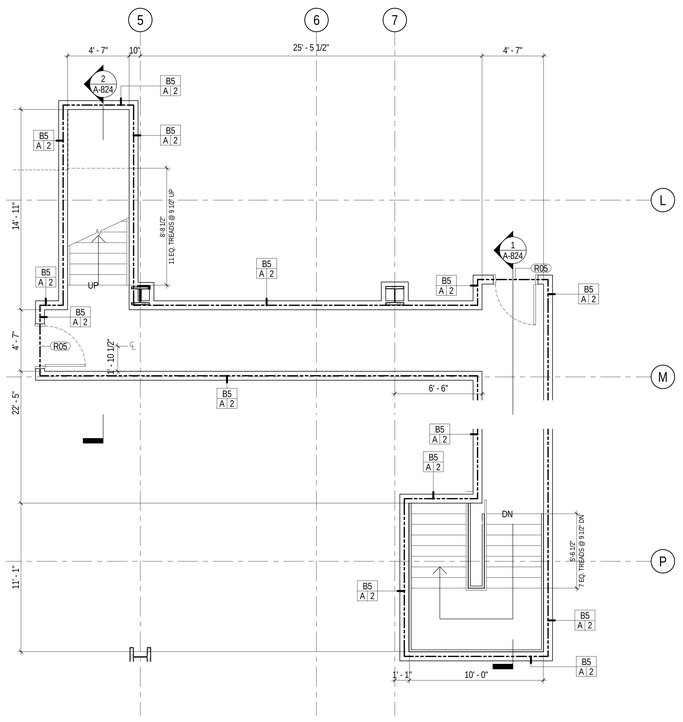

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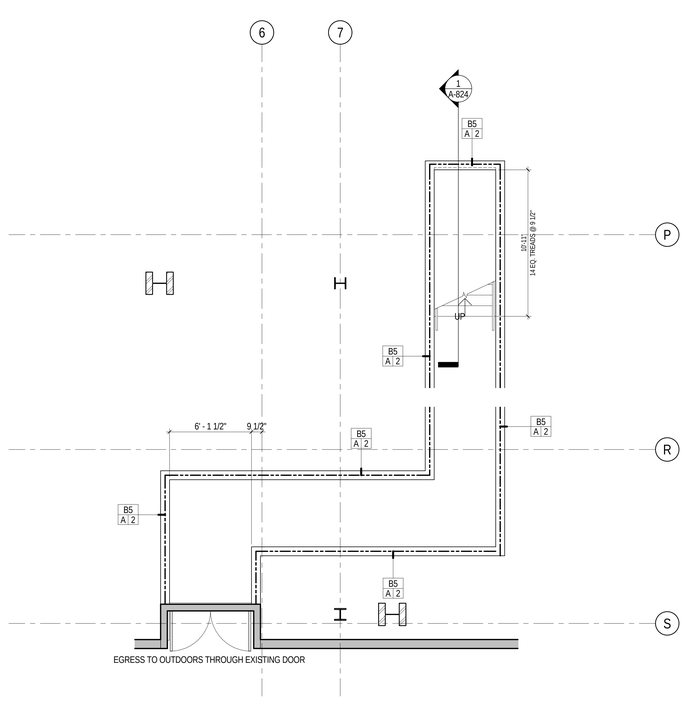

4 STAIR E - BASEMENT
SCALE: 1/4" = 1'-0"

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Under Directive 3 of 1975
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NYC Development Hub

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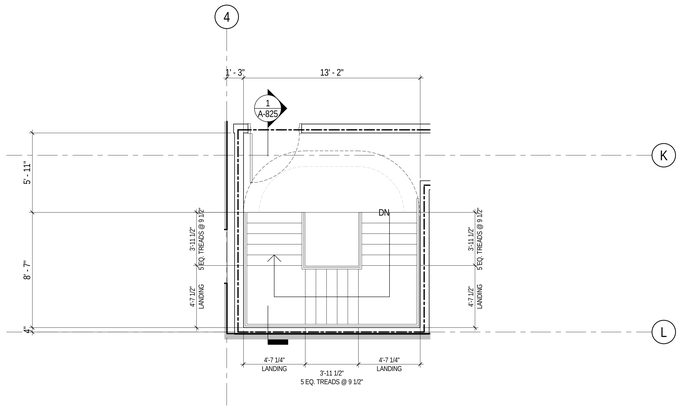

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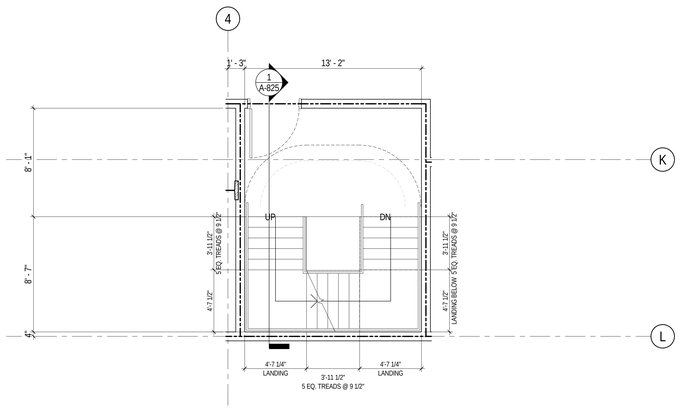

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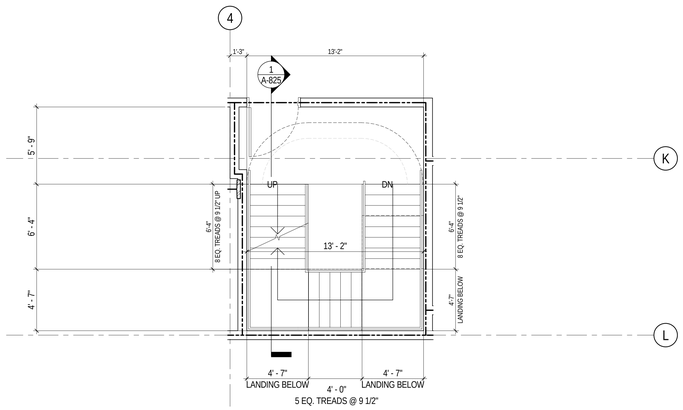

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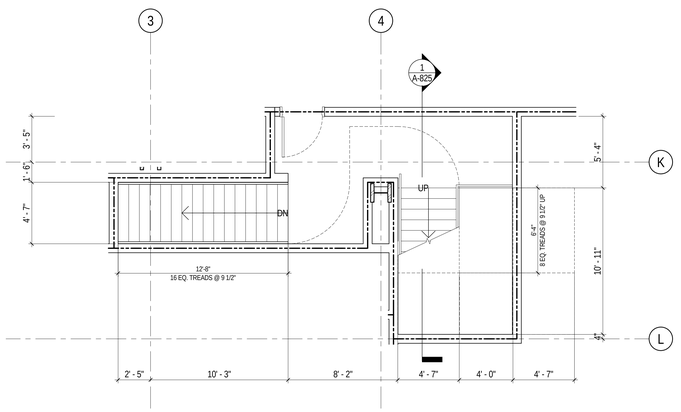

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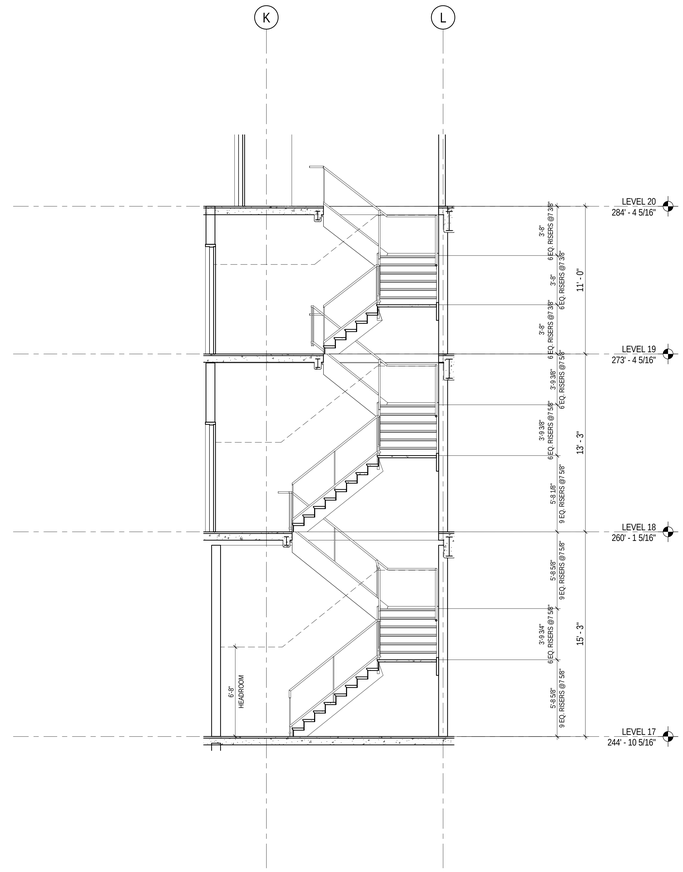

1 STAIR E - N/S SECTION L16-20
SCALE: 1/4" = 1'-0"

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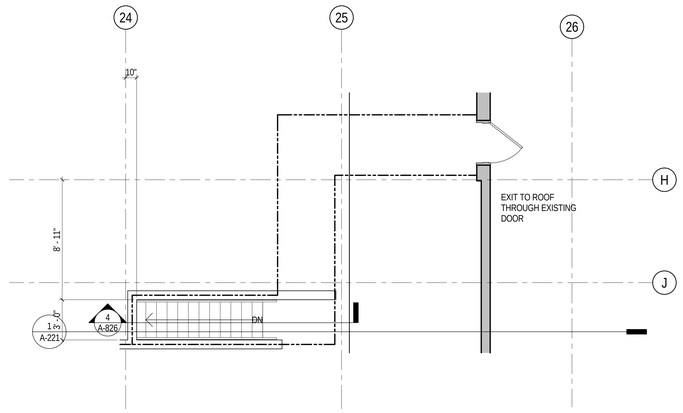

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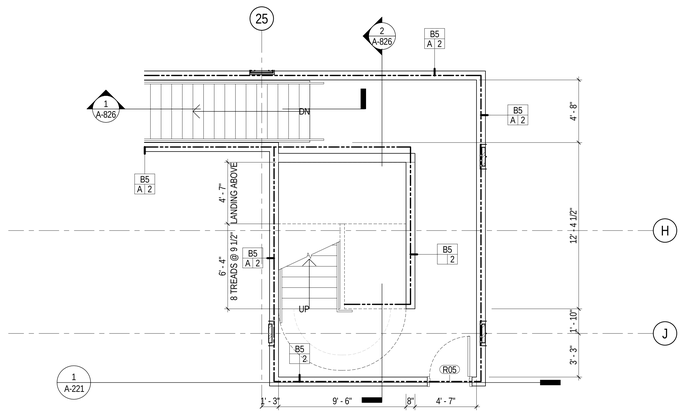

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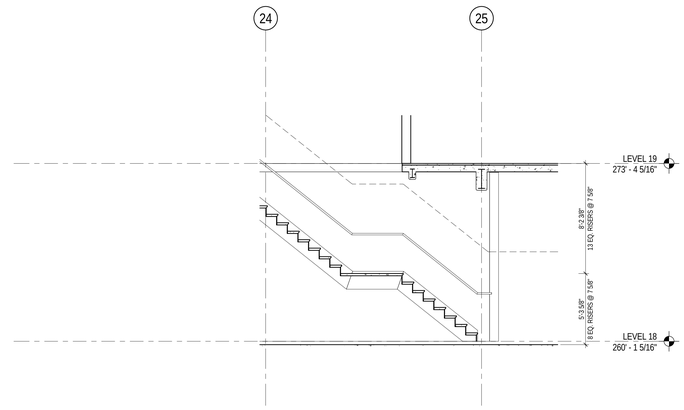

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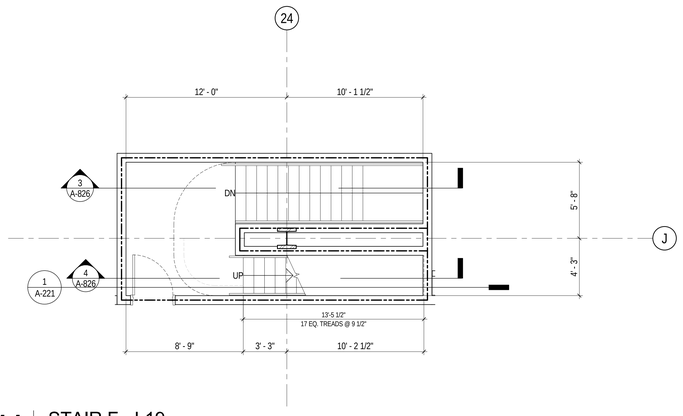

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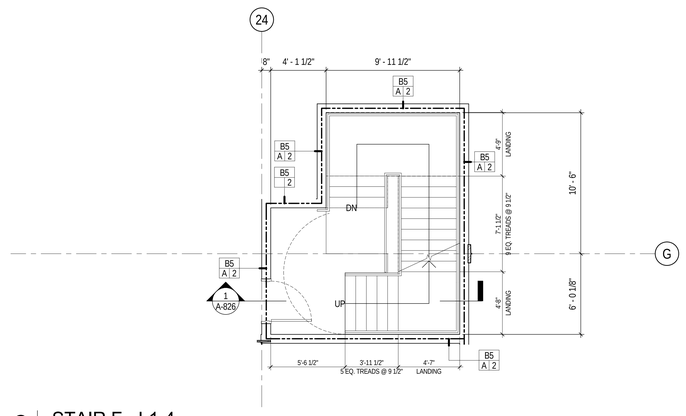

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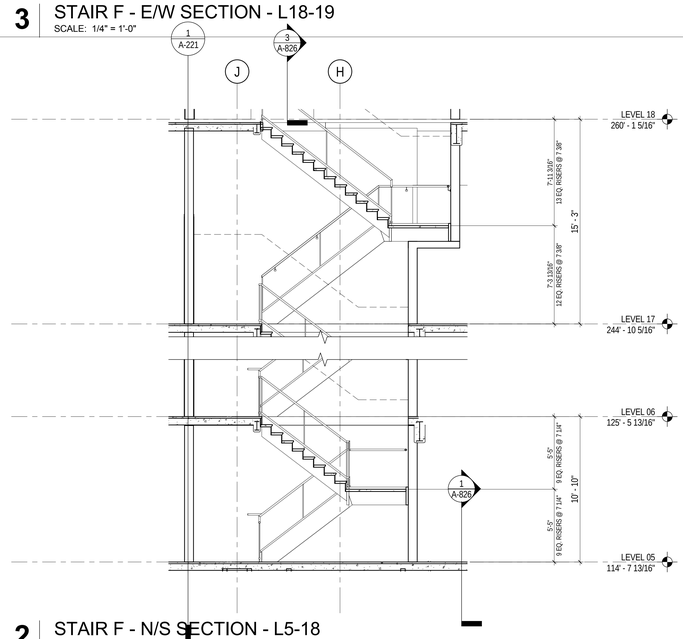

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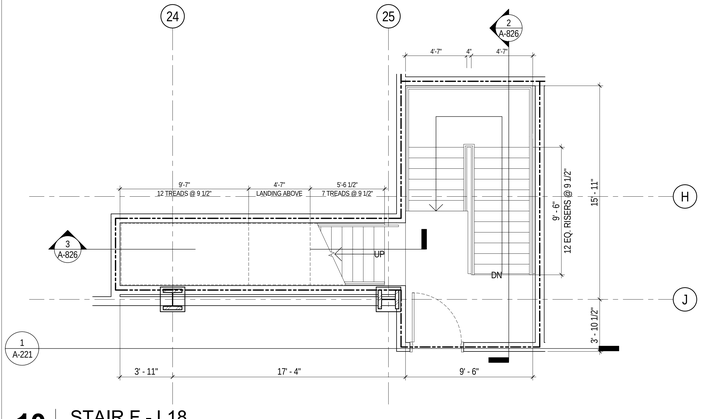

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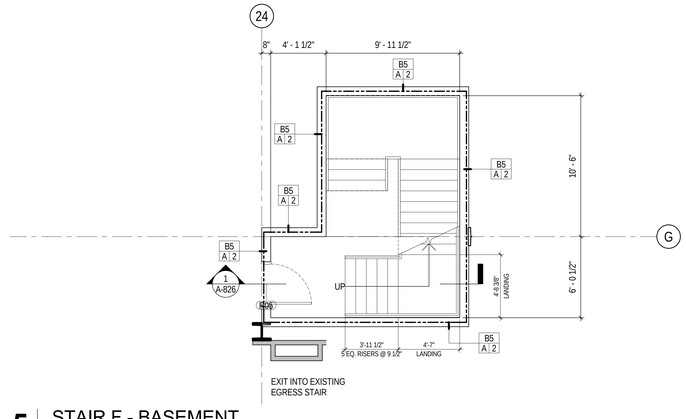

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1 STAIR F - N/S SECTION - L2-5
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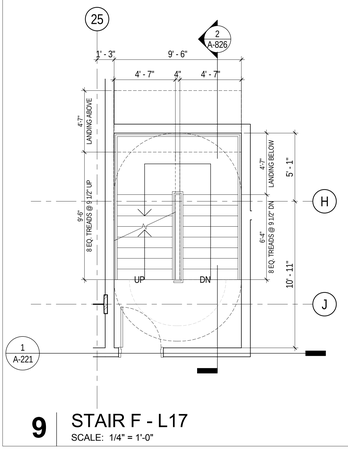

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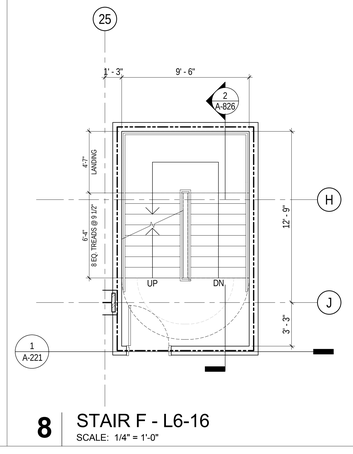

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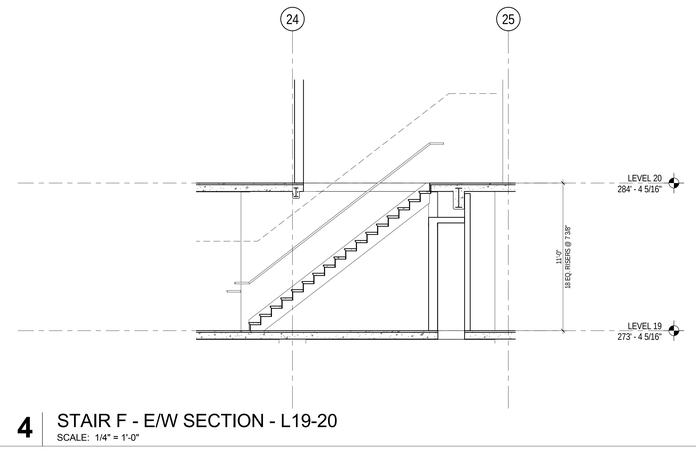

4 STAIR F - E/W SECTION - L19-20
SCALE: 1/4" = 1'-0"

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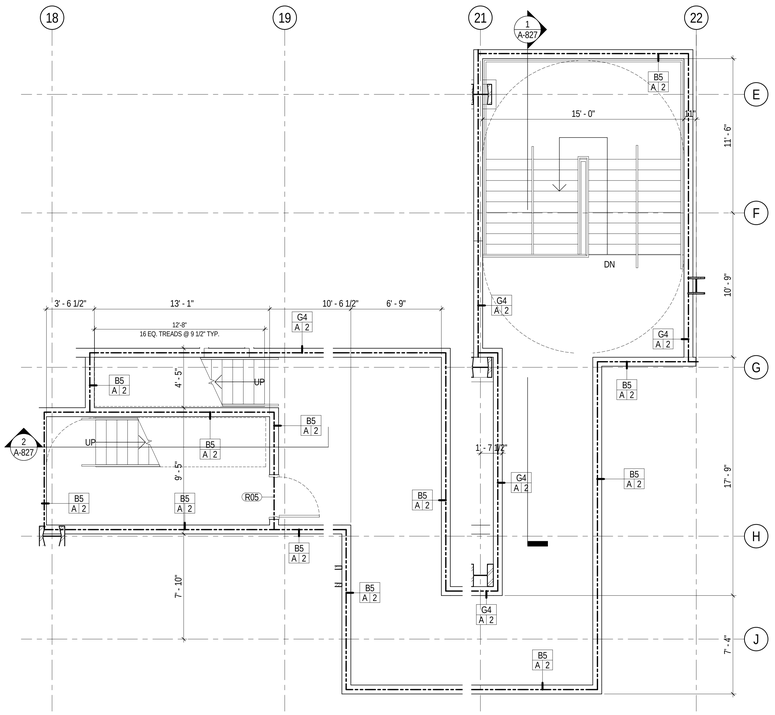

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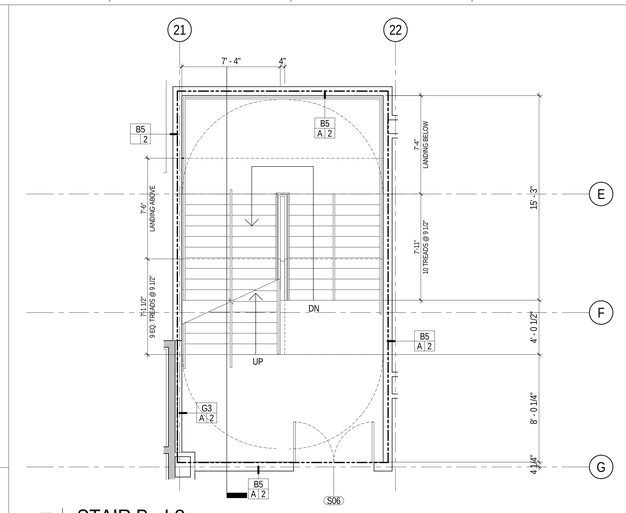

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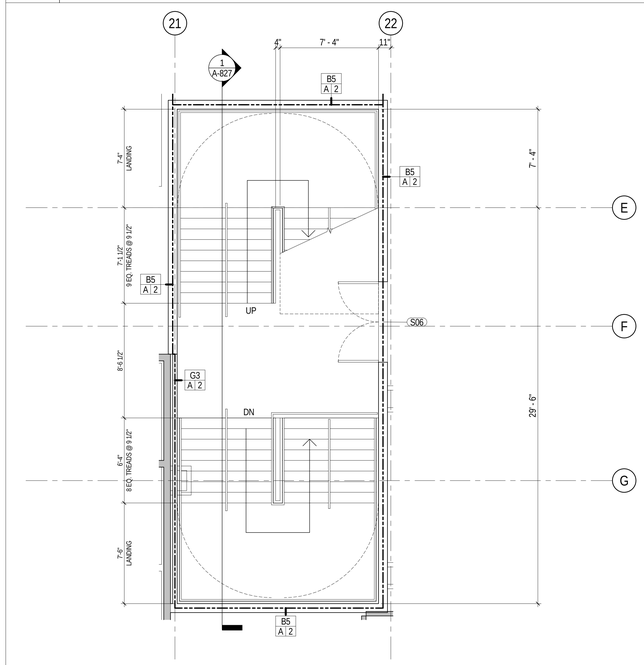

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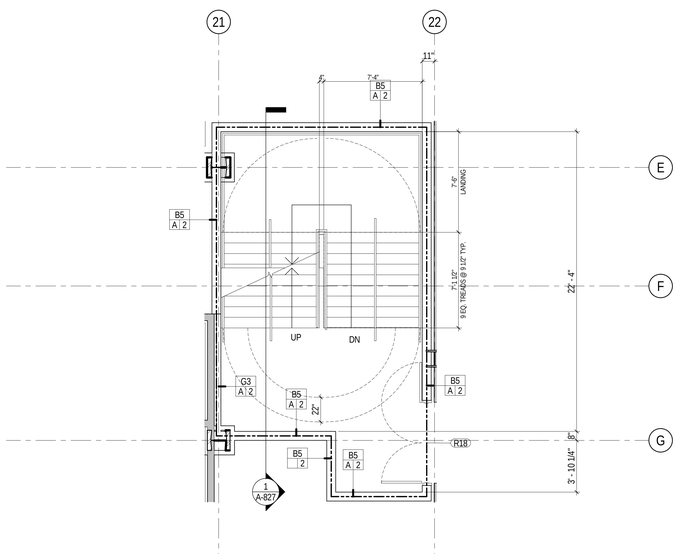

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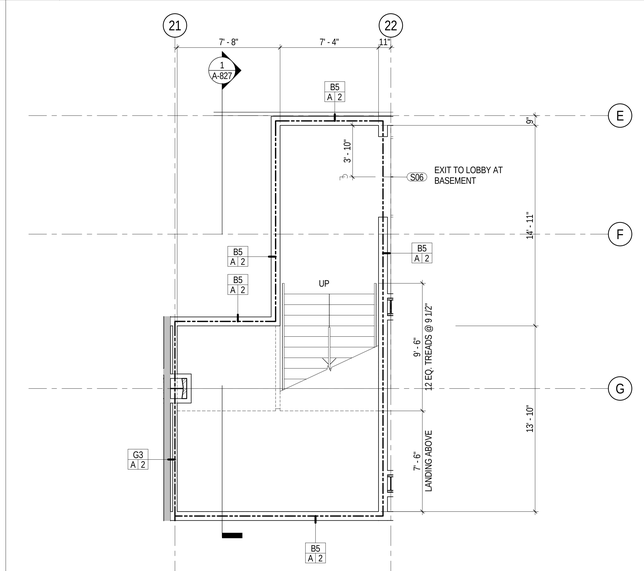

3 STAIR B - BASEMENT
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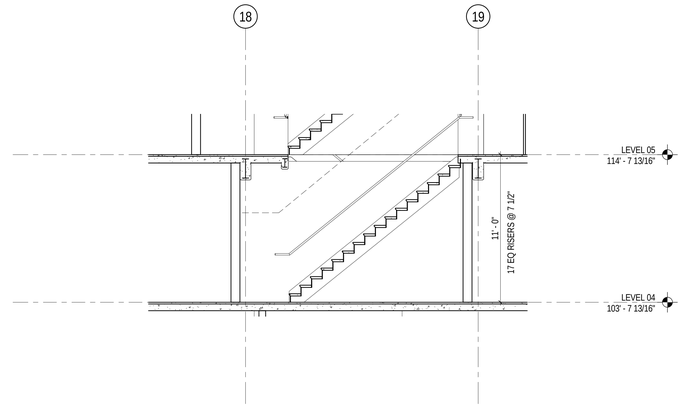
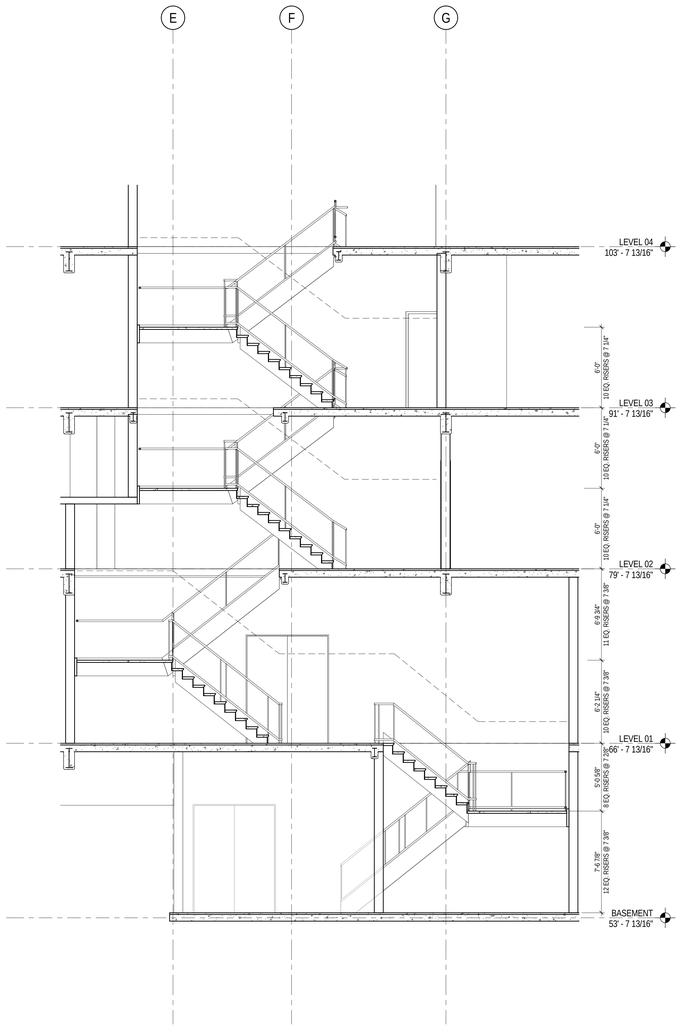


2 STAIR B & D - L4
SCALE: 1/4" = 1'-0"



1 STAIR B - BASEMENT - L4
SCALE: 1/4" = 1'-0"

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KENNETH ADAM LEWIS
No. 023335
STATE OF NEW YORK

NO.	DATE	DESCRIPTION
2	27 MAR 2017	ISSUED TO DOB
1	13 FEB 2017	ISSUED TO DOB

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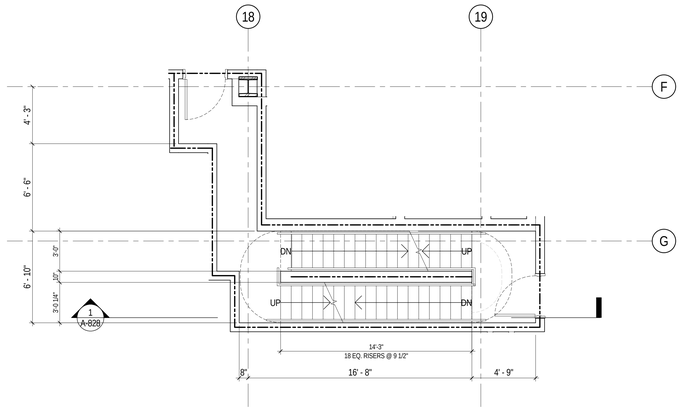

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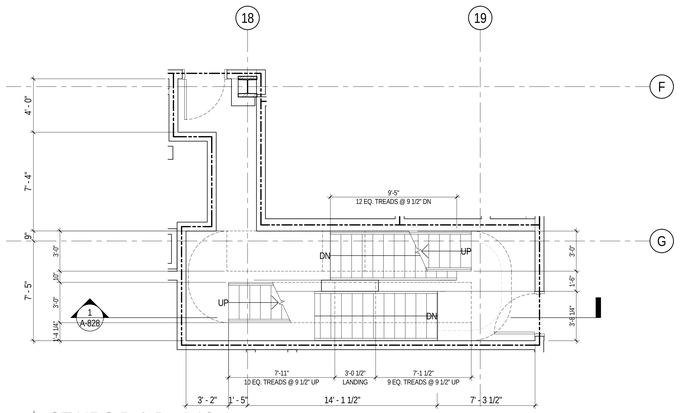

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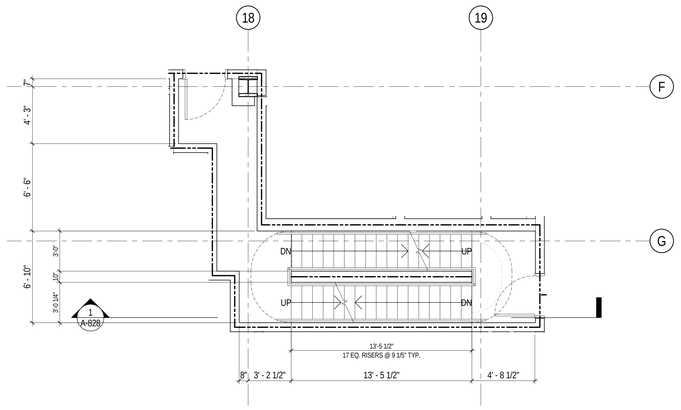

7 STAIRS B & D - L21-36
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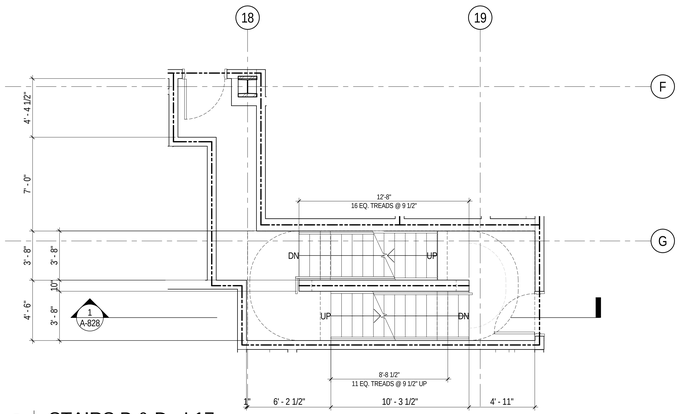

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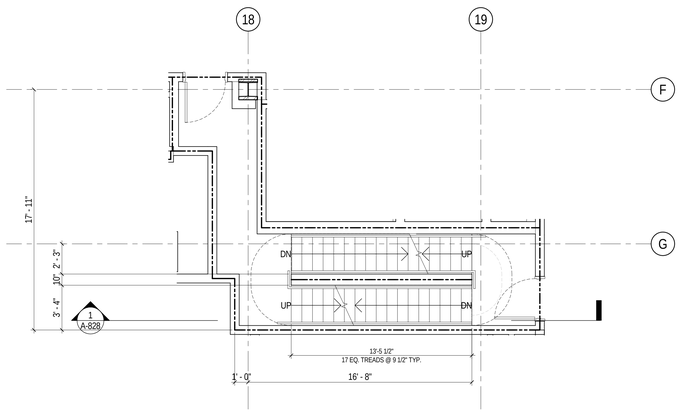

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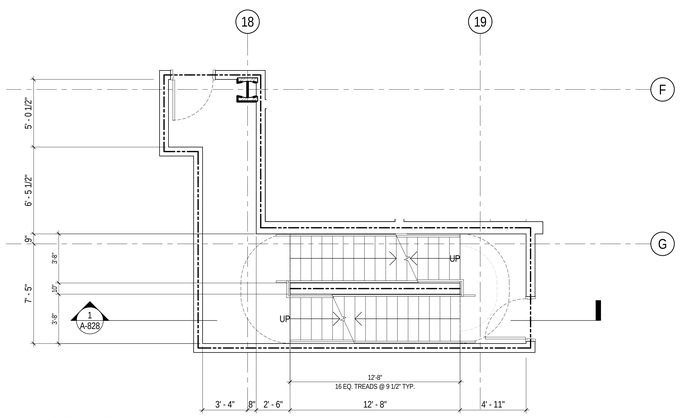

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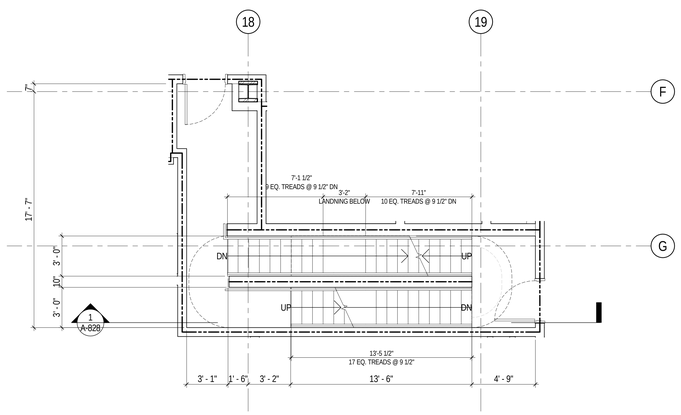

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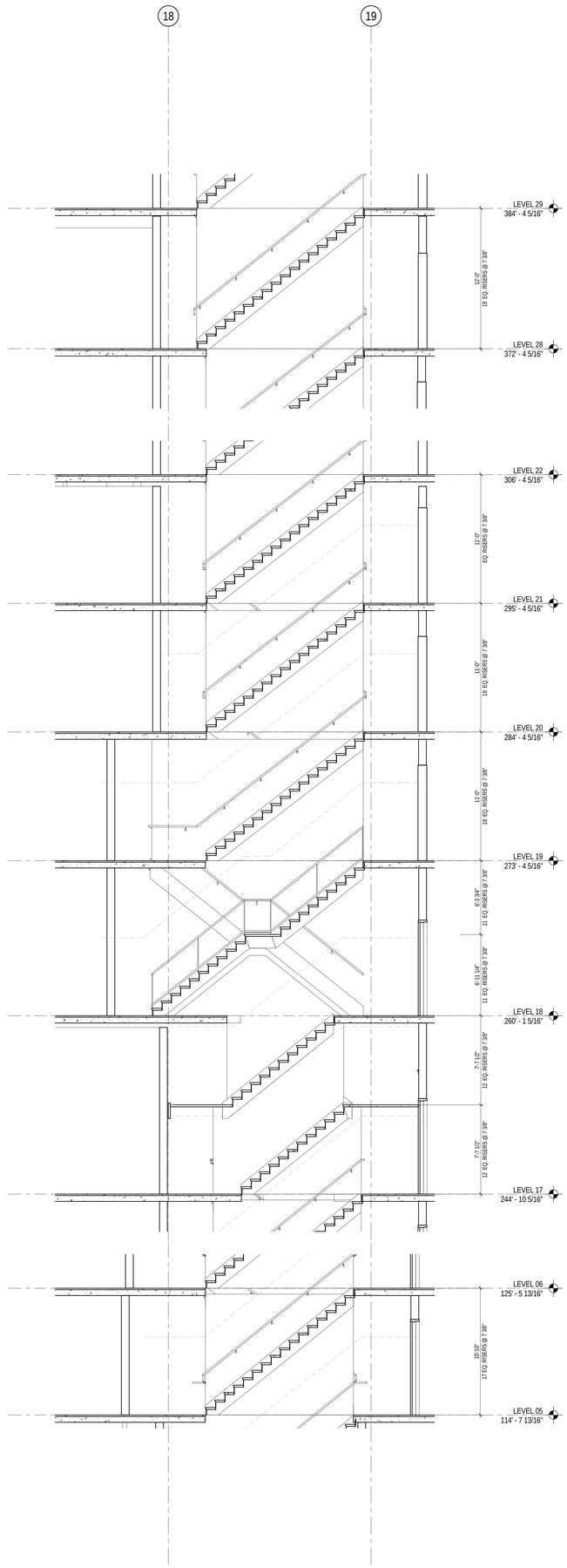

1 STAIRS B & D - E-W SECTION L4-29
SCALE: 1/4" = 1'-0"

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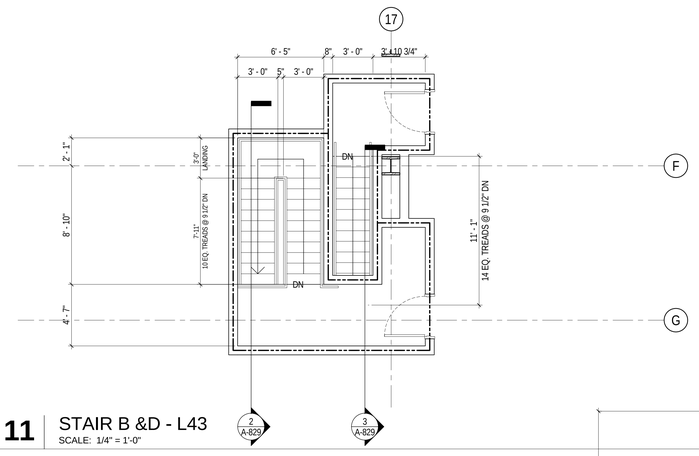
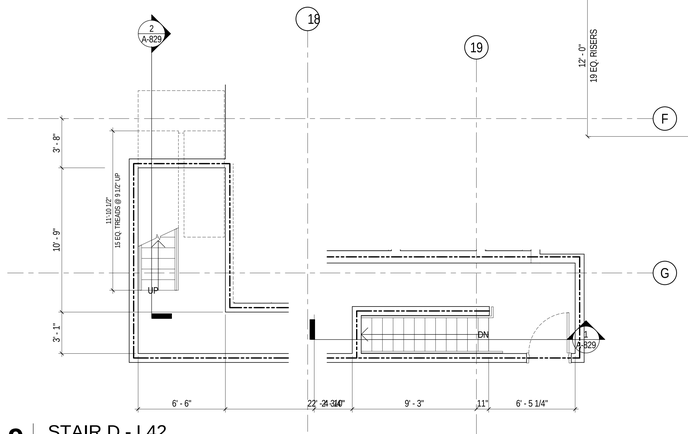


11 STAIR B &D - L43
SCALE: 1/4" = 1'-0"

10 STAIR B - L42
SCALE: 1/4" = 1'-0"



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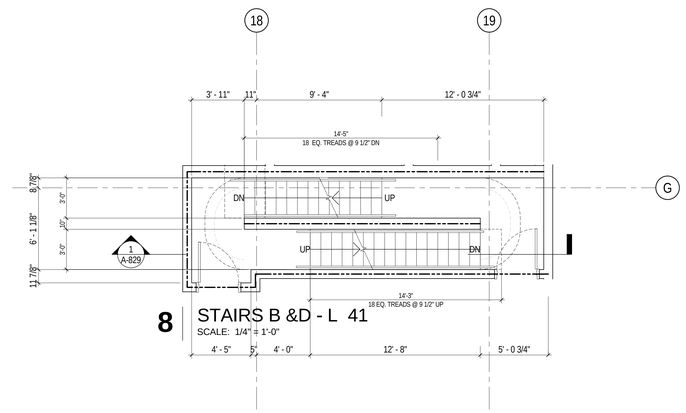

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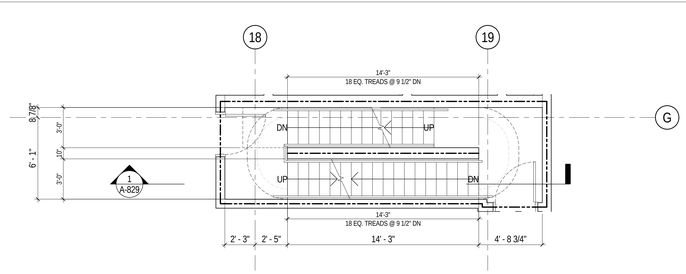

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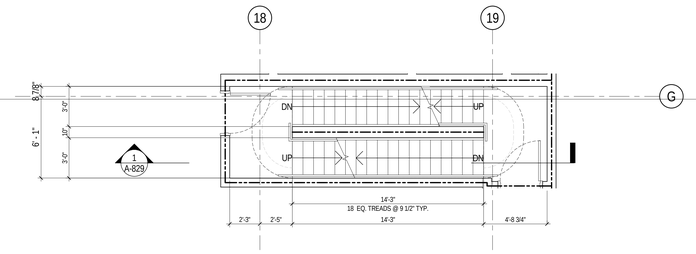

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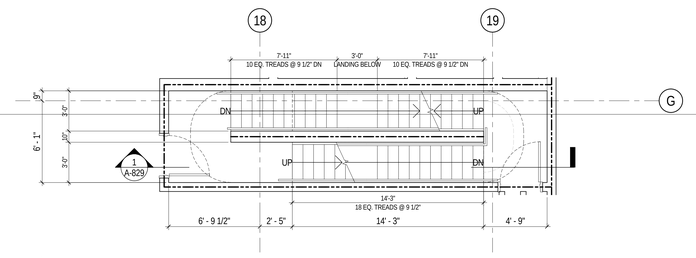

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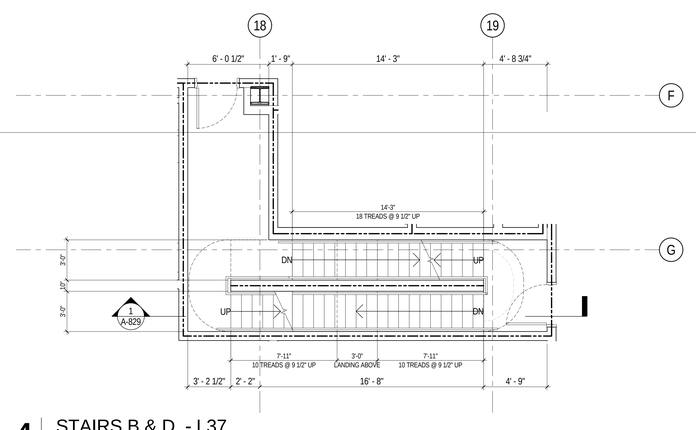

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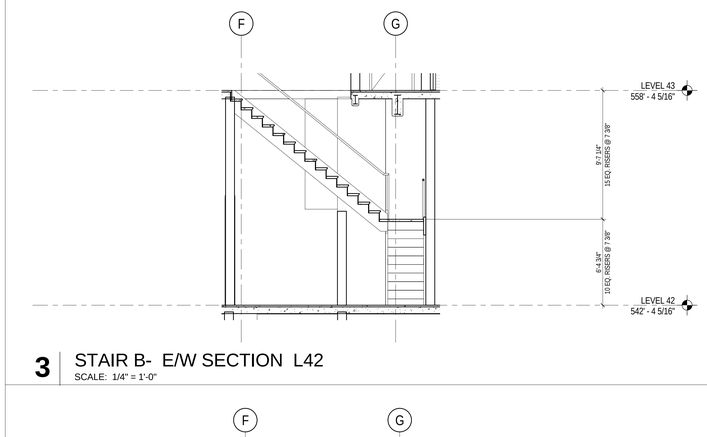

3 STAIR B- E/W SECTION L42
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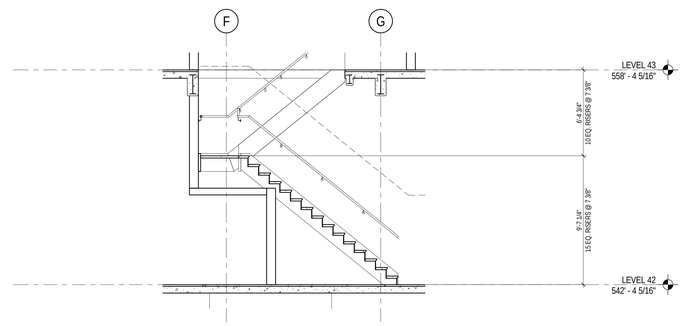

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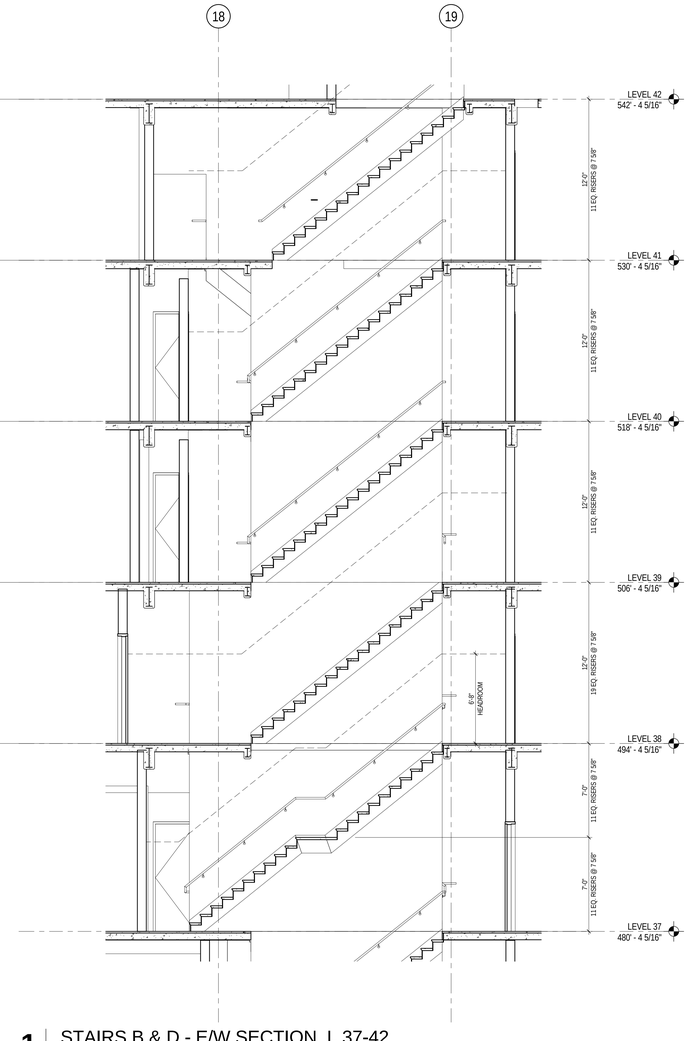

1 STAIRS B & D - E/W SECTION L 37-42
SCALE: 1/4" = 1'-0"

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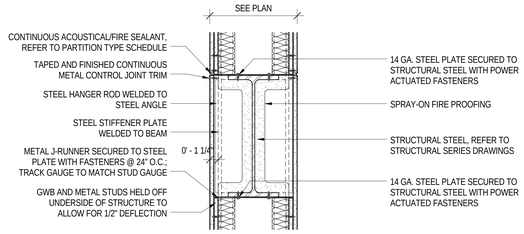
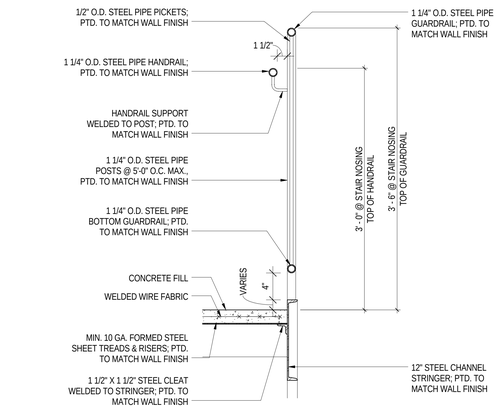
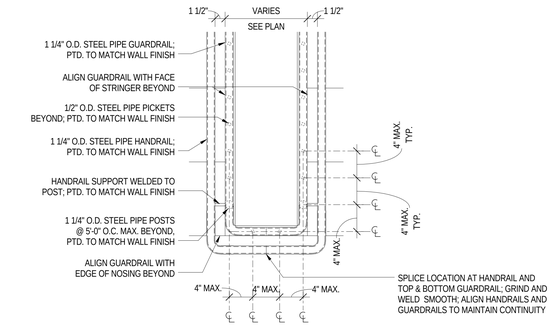


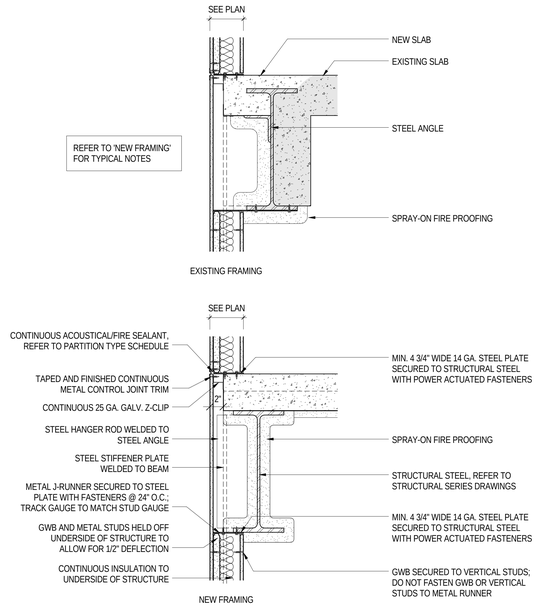
10 METAL PAN STAIR - SECTION @ BEAM
SCALE: 1 1/2" = 1'-0"



9 METAL PAN STAIR - SECTION @ GUARDRAIL
SCALE: 1 1/2" = 1'-0"



8 METAL PAN STAIR - PLAN @ GUARDRAIL
SCALE: 1 1/2" = 1'-0"



6 METAL PAN STAIR - SECTION @ HANGAR
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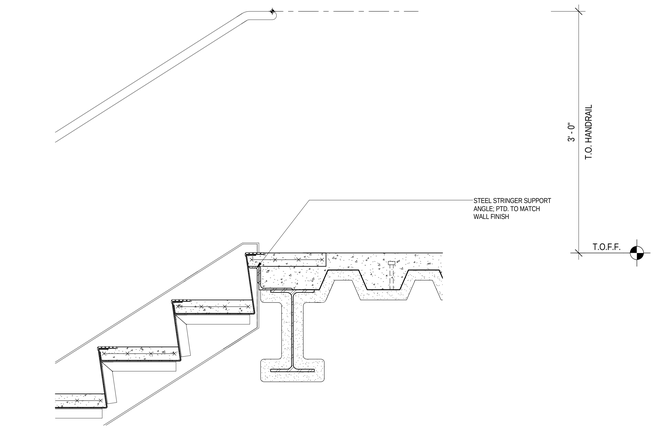
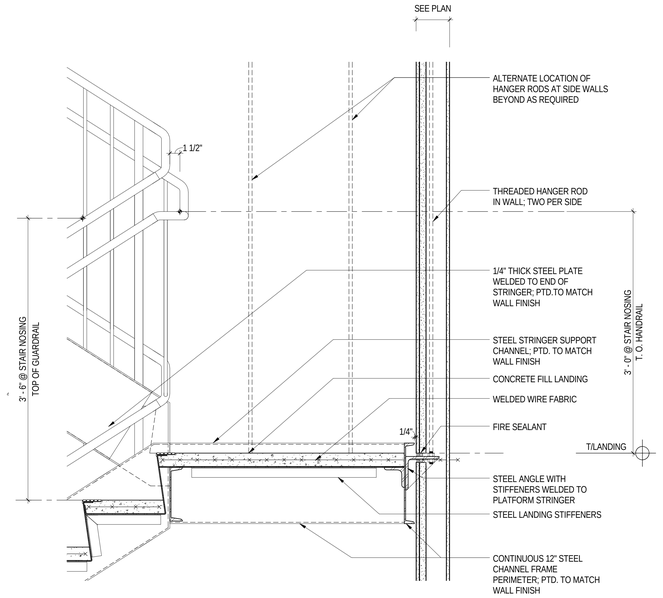


5 METAL PAN STAIR - SECTION @ TOP LANDING
SCALE: 1 1/2" = 1'-0"



3 METAL PAN STAIR - SECTION @ INTERMEDIATE LANDING
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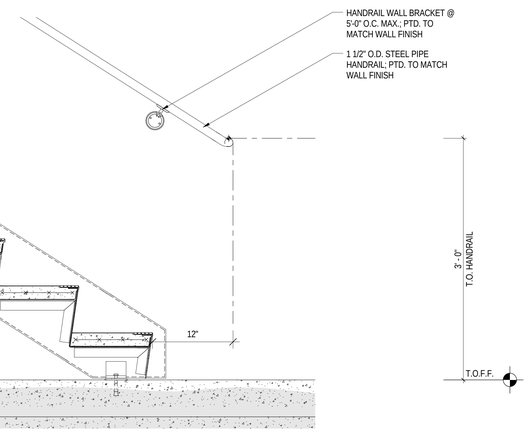
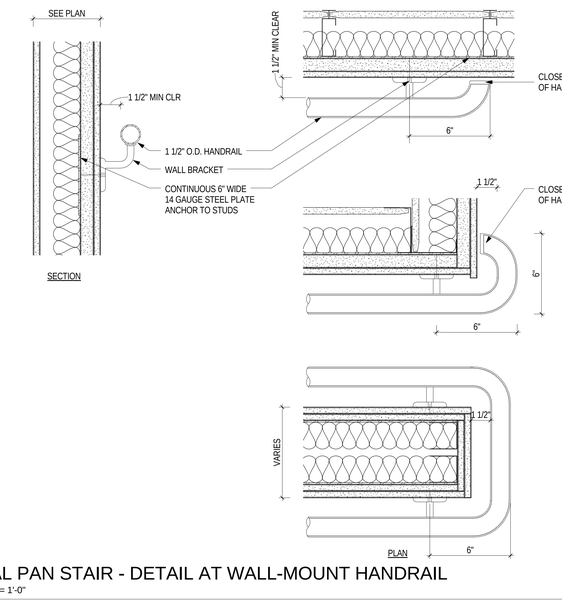


2 METAL PAN STAIR - SECTION @ BOTTOM LANDING HANDRAIL
SCALE: 1 1/2" = 1'-0"



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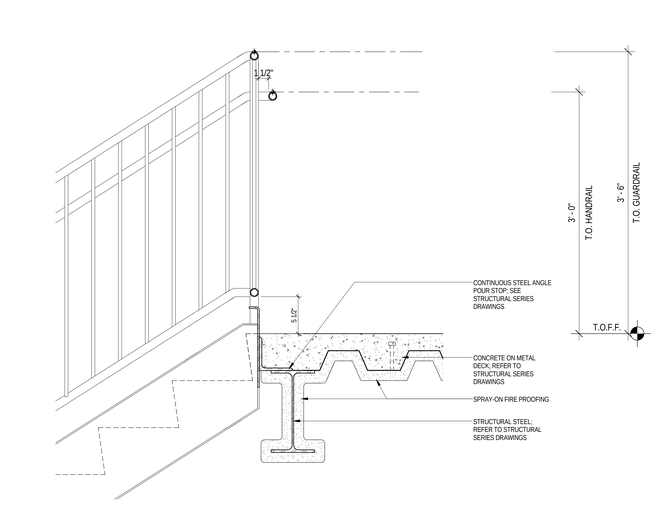

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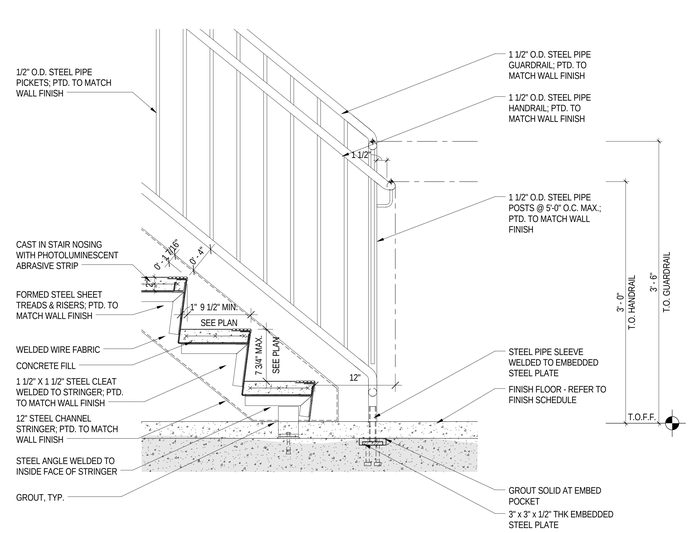
SCALE: 1 1/2" = 1'-0"



1 METAL PAN STAIR - SECTION @ BOTTOM LANDING GUARDRAIL
SCALE: 1 1/2" = 1'-0"

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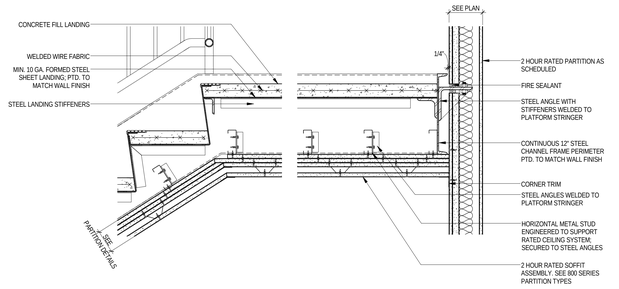
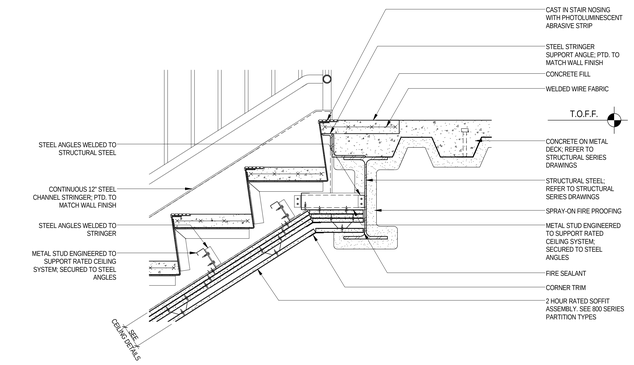


3 METAL PAN STAIR - SECTION @ FIRE RATED INTERMEDIATE LANDING
SCALE: 1 1/2" = 1'-0"



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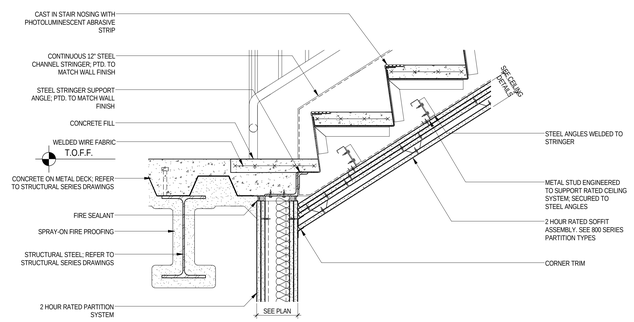
SCALE: 1 1/2" = 1'-0"



1 METAL PAN STAIR - SECTION @ FIRE RATED STAIR BOTTOM LANDING
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COMMERCIAL

2014 BUILDING DEPARTMENT NOTES, MECHANICAL

1. ALL WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK, EFFECTIVE JANUARY 1, 2015 AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.
2. *REFER TO THE TABLE BELOW FOR MATERIALS AND EQUIPMENT SUBJECT TO SPECIAL AND PROGRESS INSPECTIONS.

ENGINEER TO EDIT THE MECHANICAL SPECIAL INSPECTION AND PROGRESS INSPECTION LIST FOR PROJECT SPECIFIC REQUIREMENTS

THE FOLLOWING IS A LIST OF ALL REQUIRED MECHANICAL SPECIAL INSPECTIONS:

A. SMOKE CONTROL	BC 1704.15
B. MECHANICAL SYSTEMS	BC 1704.16
C. FUEL STORAGE AND FUEL PIPING SYSTEMS	BC 1704.17
D. HIGH PRESSURE STEAM	BC 1704.18
E. HEATING SYSTEMS	BC 1704.25
F. CHIMNEYS	BC 1704.26
G. THROUGH PENETRATION FIRESTOP SYSTEMS	BC 1704.27
H. FLOOD ZONE COMPLIANCE	BC 1704.29
I. EMERGENCY AND STANDBY POWER SYSTEMS	BC 1704.31
SEISMIC REQUIRED SPECIAL INSPECTIONS	
J. MECHANICAL AND ELECTRICAL COMPONENTS	BC 1704.7
K. SEISMIC ISOLATION SYSTEM	BC 1704.8

THE FOLLOWING IS A LIST OF ALL REQUIRED PROGRESS INSPECTIONS:

A. FIRE-RESISTANCE RATED CONSTRUCTION	BC 109.3.4.
B. ENERGY CODE COMPLIANCE	
· COMMERCIAL BUIILDINGS	B C 109 ,3,5 .
IIB1 - FIREPLACES	ECC C402.2.9
IIB2 - OUTDOOR AIR INTAKE AND EXHAUST DAMPERS	ECC C403.2.4.4
IIB3 - SERVICE WATER HEATING AND POOL EQUIPMENT SIZING AND PERFORMANCE	ECC C403.2, C404.2, C404.7, C404.6.2
IIB4 - HVAC SYSTEM CONTROLS AND ECONOMIZERS AND SERVICE HOT WATER SYSTEM CONTROLS	ECC C403.2.4, C403.2.5.1, C403.2.11, C403.3, C403.4, C404.3
IIB5 - DUCT, PLENUM AND PIPING INSULATION AND SEALING	ECC C403.2.7, C403.2.8, C404.5
IIB6 - AIR LEAKAGE AND TESTING FOR HIGH PRESSURE DUCT SYSTEMS	ECC C403.2.7.1.3
IIC7 - ELECTRIC MOTORS	ECC 403.2.10
IID1 - MAINTENANCE INFORMATION	ECC C303.3, C408.2.5.2

*THE CONTRACTOR SHALL INCLUDE IN THE COST OF HIS OR HER WORK, THE COST OF REQUIRED PROGRESS INSPECTIONS, AS PERFORMED BY ACCEPTABLE NYC DOB REGISTERED ENGINEER OR TESTING COMPANY. IN ADDITION THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ASSURE AN APPROVED DOB SPECIAL INSPECTION AGENCY HAS BEEN RETAINED.

3. THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE FOLLOWING CODE CHAPTER AND SUB-SECTION.

A. STANDARDS OF HEATING	CHAPTER 3, MC-312
B. HEATING CAPACITY	CHAPTER 3, MC-312
C. NOISE CONTROL	CHAPTER 9, SUB-SECTION MC-928
D. NOISE CRITERIA LEVELS AND TEST PROCEDURES FOR SPL	CHAPTER 9, SUB-SECTION MC-928
E. DUCT CONSTRUCTION, SUPPORTS, AIR INTAKES, EXHAUSTS AND RELIEFS	CHAPTER 4, 5, 6 AND 7
F. AIR FILTERS, FANS, AIR COOLING AND HEATING EQUIPMENT	CHAPTER 5 AND 6
G. ELECTRIC WIRING	NYC ELECTRIC CODE.

4. MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 70ºF WITH AN OUTDOOR TEMPERATURE OF 5ºF, WITH A 15 MPH WIND.
5. THE VENTILATION INDEX FOR ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS PER CHAPTER 4 AND ALL SUBSECTIONS. ALL TOILET ROOMS TO BE VENTILATED IN ACCORDANCE WITH CHAPTER 4, SUB-SECTION MC-403.
6. UPON COMPLETION OF THIS VENTILATION SYSTEM, A TEST SHALL BE CONDUCTED IN THE PRESENCE OF AND UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT QUALIFIED TO CONDUCT SUCH TESTS. FOR SYSTEMS OF LESS THAN 5,000 CFM THE INSPECTION MAY BE BY A PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING INSTALLATION OF VENTILATING SYSTEMS. THE CONTRACTOR WILL BE REQUIRED TO RETAIN THE SERVICES OF THE PROPER PERSON TO CONDUCT THE TEST. THE TESTS SHALL SHOW COMPLIANCE WITH THE CODE REQUIREMENTS FOR VENTILATION AND THE PROPER FUNCTIONING OF ALL SMOKE DETECTION, FIRE PROTECTION AND OPERATING DEVICES BEFORE THE SYSTEM IS APPROVED. THE LICENSED PROFESSIONAL ENGINEER OF REGISTERED ARCHITECT SHO CONDUCTS THE TESTS SHALL FILE A CERTIFICATE AS TO WHETHER THE SYSTEM COMPLIES WITH THE APPLICABLE LAWS. HE SHALL ALSO FILE WITH THIS CERTIFICATION A REPORT OF THE TEST. THE TEST AND REPORT SHALL BE MADE IN A MANNER SATISFACTORY TO THE SUPERINTENDENT.
7. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATING SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY CODE.
8. ALL VENTILATING AND AIR CONDITIONING DUCTWORK, BOTH LOW AND HIGH VELOCITY, TO BE CONSTRUCTED IN ACCORDANCE WITH THE DUCT MANUALS OF SMACNA, 2005.
9. DUCT SUPPORT SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION MC-603. ALL DUCTWORK SHALL BE CONSTRUCTED OF ANY OF THE FOLLOWING: IRON, STEEL, ALUMINUM, COPPER, CONCRETE, MASONRY OR CLAY TILE.
10. FIRE DAMPERS SHALL BE PROVIDED AT ALL FRESH AIR INTAKES AS PER CHAPTER 4, SECTION 401.5.1 AND IN ALL DUCTS PENETRATING FIRE RATED PARTITIONS AS PER CHAPTER 6.
11. ALL FIRE DAMPERS SHALL BE APPROVED BY THE NEW YORK CITY BOARD OFSTANDARDS AND APPEALS AND SH ALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH UL 555 (2006), STANDARD FOR FIRE DAMPERS AND CEILING DAMPERS.
12. SMOKE DETECTORS AND SMOKE DAMPERS SHALL BE INSTALLED AS REQUIRED IN CHAPTER 4, SECTION 401. 4 .1 AND CHAPTER 6. DAMPER OPERATION SHALL CONFORM WITH CHAPTER 5 AND 6.
13. SMOKE DAMPERS SHALL BE APPROVED BY THE NEW YORK CITY BOARD OF STANDARDS AND APPEALS AND SHALL BE MANUFACTURED AND INSTALLED WITH UL 555S (1999) STANDARD FOR LEAKAGE RATED DAMPERS FOR USE IN SMOKE CONTROL SYSTEMS, FIRST EDITION.
14. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS AND RATED CONSTRUCTION.
15. TESTS OF SOUND POWER LEVEL OF MECHANICAL EQUIPMENT SHALL BE CONDUCTED AND RESULTS SUBMITTED AS REQUIRED AS PER CHAPTER 9, SECTION MC-92 8. NOISE CRITERIA LEVEL AND TEST PROCEDURES FOR SOUND POWER LEVEL SHALL COMPLY WITH CHAPTER 9, SECTION MC-928.

GENERAL MECHANICAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST NEW YORK STATE AND CITY CODES AND SUPPLEMENTS. INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

A. 2008 NYC BUILDING CODE
B. 2008 NYC PLUMBING CODE.
C. 2008 NYC MECHANICAL CODE.
D. 2011 NYS ENERGY CONSERVATION AND CONSTRUCTION CODE.
E. APPLICABLE ASTM.
F. APPLICABLE ANSI
G. APPLICABLE UL.
H. BUILDING RULES AND REGULATIONS

2. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH ALL STATE AND LOCAL GOVERNING AUTHORITIES.
3. DRAWINGS INDICATE STANDARD REQUIREMENTS. ADDITIONAL REQUIREMENTS BY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS ARE PART OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE IN HIS/HER WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS WITH NO INCREASE IN COSTS TO THE BUILDING OWNER, EDWARDS & ZUCK, P.C., OR THE ARCHITECT.
4. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. THE CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE CONTRACT DOCUMENT SET WITH ALL OTHER TRADES FOR PROPER INSTALLATION OF WORK. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS COORDINATED WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR LOCATIONS OF OPENINGS, RECESSES, BUILT-IN WORK, CLEARANCE REQUIREMENTS, POWER REQUIREMENTS, SUPPORTS, ETC. TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
5. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON-SITE AT ALL TIMES AND INSURE THE DISTRIBUTION OF NEW DRAWINGS, UPDATED TO REFLECT "AS-BUILT" CONDITIONS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND SHALL BE REMOVED FROM THE CONTRACT AREA.
6. MECHANICAL DRAWINGS, PLANS, AND DETAILS ARE DIAGRAMMATIC AND DO NOT SHOW ALL INTERFERENCE'S AND CONDITIONS VISIBLE AND/OR HIDDEN THAT MAY EXIST. THE CONTRACTOR MUST VISIT THE JOB SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ASSUME RESPONSIBILITY FOR CONDITIONS THEREOF, BEFORE BIDDING AND DURING THE CONDUCT OF WORK.
7. THE LOCATION OF EQUIPMENT AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND SHALL COORDINATE THE WORK OF ALL SUB-CONTRACTORS.
8. PROVIDE AIR TIGHT SEALING AND FIRE STOPPING (U.L. LISTED) AT ALL PIPE AND DUCT PENETRATIONS OF FIRE RATED AND SMOKE RESISTIVE PARTITIONS AND FLOORS. REFER TO ARCHITECTURAL CODE SHEETS.
9. ANY AND ALL ERRORS, DISCREPANCIES, AND 'MISSED' ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR ARCHITECT DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS WHICH ARE REQUIRED FOR COMPLETION, FUNCTIONALITY AND SERVICEABILITY OF ITEMS SPECIFIED.
10. IN THE EVENT OF ANY AMBIGUITY OR DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL APPLY CONSISTENT WITH DESIGN INTENT. HOWEVER, PRIOR TO COMMENCEMENT WITH THE WORK IN QUESTION, THE ENGINEER SHALL BE NOTIFIED FOR DETERMINATION.
11. CONTRACTOR SHALL SUBMIT COORDINATED SHOP DRAWINGS BEFORE START OF CONSTRUCTION AND ORDERING EQUIPMENT TO THE ARCHITECT FOR REVIEW. THE SHOP DRAWING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO "AS BUILT" DRAWING LAYOUTS OF EQUIPMENT, PIPING, DUCTWORK, CONTROLS, LOUVERS, AND BOILER FLUE CONNECTORS. SHOP DRAWINGS MUST BEAR THE CONTRACTORS APPROVAL STAMP BEFORE SUBMITTAL TO THE ARCHITECT FOR REVIEW.
12. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND ANGLES, PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
13. THE CONTRACTOR SHALL VERIFY ALL MANUFACTURER'S CATALOG NUMBERS WITH MANUFACTURERS FOR CURRENT CONFIGURATIONS AND FUNCTIONS. ALL EQUIPMENT AND MATERIAL SHALL BE LABELED, LISTED, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
14. SUBSTITUTION OF SPECIFIED EQUIPMENT IS SUBJECT TO THE OWNER'S AND ENGINEER'S REVIEW AND ACCEPTANCE. ALL DESIGN, INSTALLATION LABOR, MATERIALS AND WARRANTIES NECESSARY TO ACCOMMODATE SUBSTITUTION REQUIREMENTS MUST BE PROVIDED AT NO EXTRA COST TO THE OWNER.
15. CONTRACTOR SHALL PROTECT PEOPLE, BUILDINGS, EQUIPMENT, FURNISHINGS, GROUNDS, AND PLANTINGS FROM DAMAGE. PROVIDE PROTECTIVE COVERINGS AND BARRICADES AS REQUIRED. PROTECT FINISHED BUILDING SURFACES AS REQUIRED. LIMIT TRAFFIC AND STORAGE OF MATERIALS ON WATERPROOFED AND ROOFED SURFACES. SEE SPECIFICATIONS FOR ADDITIONAL PROTECTIVE MEASURES.
16. THE TERM "PROVIDE" SHALL MEAN FURNISH, INSTALL, CONNECT, AND MAKE OPERABLE.
17. THE TERM "INDICATED" SHALL MEAN AS SHOWN IN CONTRACT DOCUMENTS (DRAWINGS SPECIFICATIONS AND RELATED ATTACHMENTS).
18. BEFORE SELECTING MATERIALS AND/OR EQUIPMENT AND PROCEEDING WITH THE WORK, INSPECT ALL AREAS TO INSURE SUITABILITY, FIT, CLEARANCES, AND INTERCONNECTIONS.
19. FABRICATE AND INSTALL SUPPLY & RETURN DUCTWORK IN PREMEASURED LENGTHS SO THAT DUCT FLANGES AND DUCT SUPPORTS CLEAR LIGHT FIXTURES AND STRUCURAL SUPPORT STEEL. TO MINIMIZE CLEARANCE REQUIREMENTS ABOVE CEILING SPACE. COORDINATE WORK WITH STRUCURAL PLANS AND RELECFTED CEILING PLANS.
20. PROVIDE THE OWNER WITH ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.
21. ALL PIPE AND DUCT DIMENSIONS ARE INSIDE DIMENSIONS. ALLOWANCE SHALL BE MADE FOR OVERALL DIMENSIONS AND FOR INSULATION SPACE REQUIREMENTS WHEN DETERMINING CLEARANCE REQUIREMENTS.
22. ALL DIMENSIONS SHOWN ARE TO FINISH FACE UNLESS NOTED.
23. PROVIDE BALANCING DAMPERS AT ALL DUCT BRANCHES. DO NOT INSTALL DAMPERS AT REGISTERS OR DIFFUSERS. PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DAMPERS INSTALLED ABOVE GYP-BOARD CEILINGS.
24. SIZE ALL TRANSFER DUCTS AND AIR OUTLETS AT 500 FPM. PROVIDE 1" ACOUSTICAL LINING.
25. PROVIDE ACCESS DOORS IN DUCTWORK AT ALL BALANCING DAMPERS, FIRE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS.
26. PROVIDE VOLUME DAMPERS IN EACH BRANCH DUCT SERVING AN AIR INLET OR OUTLET. LOCATE DAMPER AS FAR AWAY FROM INLET/OUTLET AS POSSIBLE.
26. COORDINATE LOCATION OF THERMOSTATS WITH ARCHITECTURAL PLANS.
27. COORDINATE LOCATION & ROUTING OF DUCTWORK AND PIPING TO MAINTAIN CLG. HEIGHT AS SHOWN ON REFLECTED CEILING PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN DIRECTION & FITTINGS TO MAINTAIN CLEARANCE ABOVE CEILING. PROVIDE DETAILED COORDINATION DRAWINGS IN AREAS OF CONGESTION.
28. PROVIDE ONE THERMOSTAT FOR EACH VARIABLE VOLUME BOX. THERMOSTATS SHALL BE WALL MOUNTED. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWING.
29. WHERE SUPPLY AIR DUCT SIZE AT DISCHARGE OF VARIABLE VOLUME BOX IS NOT SPECIFIED, IT SHALL BE SAME SIZE AS BOX CONNECTION.
30. ALLOW 6" MINIMUM CLEAR SPACE IN FRONT OF VOLUME DAMPER IN CEILING PLENUMS.
31. SUPPORT TERMINAL UNIT INDEPENDENTLY FROM STRUCTURE. DO NOT ATTACH TO METAL DECKS. PROVIDE ADDITIONAL STEEL BRACING AS REQUIRED TO SPAN STRUCTURAL STEEL. PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINTS ON EQUIPMENT SUPPORTED FROM STRUCTURE.
32. PROVIDE 1" ACOUSTIC LINING ON ALL TRANSFER DUCTS AND ON RETURN AIR DUCTS. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
33. PROVIDE WIRE MESH SCREEN OVER ALL DUCT OPENINGS.
34. PROVIDE FULL RADIUS ELBOWS OR TURNING VANES ON PRESSURIZED DUCTWORK.
35. PROVIDE UL LISTED FIRE STOPPING AT ALL DUCT AND PIPING PENETRATIONS OF RATED WALLS. REFER TO ARCHITECTURAL CODE SHEETS.
36. PROVIDE FIRE DAMPER AT PENETRATION OF WALLS RATED IN EXCESS OF ONE HOUR PER CODE. FIRE DAMPER PERFORMANCE SHALL MATCH OR EXCEED RATING OF WALL. PROVIDE COMBINATION FIRE/SMOKE DAMPER AT PENETRATION OF WALL RATED IN EXCESS OF TWO HOURS PER CODE.
37. COORDINATE LOCATION OF AIR OUTLETS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
38. PROVIDE FLEXIBLE CONNECTORS UPSTREAM AND DOWNSTREAM OF ALL FAN POWERED EQUIPMENT.
39. DO NOT INSTALL PLASTIC PIPE CONDUIT, DUCTWORK & ASSOCIATED COMPONENTS IN PLENUM CEILING SPACE.
40. CONTRACTOR SHALL PROVIDE ACCESS DOOR IN CHASES AND GYPSUM BOARD CEILINGS TO ALLOW ACCESS TO FIRE DAMPERS, FIRE/SMOKE DAMPERS AND VOLUME DAMPERS.
41. PROVIDE ADDITIONAL STEEL BRACING, STRUTS, ANGLE AND CHANNEL AS REQUIRED TO SPAN STRUCTURAL STEEL TO DISTRIBUTE WEIGHT OF SUPPORTED MECHANICAL SYSTEMS.

MECHANICAL DRAWING LIST

Sheet	Sheet Title	9/30/2016 ISSUED FOR PROGRESS	10/07/2016 ISSUED FOR SCHEMATIC DESIGN	2/10/2017 ISSUED TO DOB Rev00	3/17/2017 ISSUED FOR BID PACKAGE 006	4/13/2017 ISSUED TO DOB Rev01	6/7/2017 ISSUED TO DOB Rev02
M-001	MECHANICAL NOTES	●	●	●	●	●	●
M-002	MECHANICAL SYMBOLS & ABBREVIATIONS	●	●	●	●	●	●
M-101	MECHANICAL SUB-CELLAR 2 PLAN A	●	●		●		
M-102	MECHANICAL SUB-CELLAR 2 PLAN B	●	●				
M-103	MECHANICAL SUB-CELLAR 1 PLAN A	●	●		●		
M-104	MECHANICAL SUB-CELLAR 1 PLAN B	●	●				
M-105	MECHANICAL CELLAR PLAN A	●	●		●		
M-106	MECHANICAL CELLAR PLAN B	●	●				
M-107	MECHANICAL BASEMENT PART PLAN A	●	●	●		●	●
M-108	MECHANICAL BASEMENT PART PLAN B	●	●	●		●	●
M-109	MECHANICAL 1ST FLOOR PART PLAN A	●	●				
M-110	MECHANICAL 1ST FLOOR PART PLAN B	●	●				
M-111	MECHANICAL 2ND FLOOR PART PLAN A	●	●				
M-112	MECHANICAL 2ND FLOOR PART PLAN B	●	●				
M-113	MECHANICAL 3RD FLOOR PART PLAN A	●	●				
M-114	MECHANICAL 3RD FLOOR PART PLAN B	●	●				
M-115	MECHANICAL 4TH FLOOR PART PLAN A	●	●				
M-116	MECHANICAL 4TH FLOOR PART PLAN B	●	●				
M-117	MECHANICAL 5TH FLOOR PART PLAN A	●					
M-118	MECHANICAL 5TH FLOOR PART PLAN B	●					
M-119	MECHANICAL 6TH FLOOR PART PLAN A	●	●				
M-120	MECHANICAL 6TH FLOOR PART PLAN B	●	●				
M-121	MECHANICAL 7TH FLOOR PART PLAN A	●	●				
M-122	MECHANICAL 7TH FLOOR PART PLAN B	●	●				
M-123	MECHANICAL 8TH FLOOR PART PLAN A						
M-124	MECHANICAL 8TH FLOOR PART PLAN B						
M-125	MECHANICAL 9TH FLOOR PART PLAN A						
M-126	MECHANICAL 9TH FLOOR PART PLAN B						
M-127	MECHANICAL 10TH FLOOR PART PLAN A						
M-128	MECHANICAL 10TH FLOOR PART PLAN B						
M-129	MECHANICAL 11TH FLOOR PART PLAN A						
M-130	MECHANICAL 11TH FLOOR PART PLAN B						
M-131	MECHANICAL 12TH FLOOR PART A PLAN						
M-132	MECHANICAL 12TH FLOOR PART B PLAN						
M-133	MECHANICAL 13TH FLOOR PART PLAN A			●		●	●
M-134	MECHANICAL 13TH FLOOR PART PLAN B			●		●	●
M-135	MECHANICAL 14TH FLOOR PART PLAN A	●	●	●		●	●
M-136	MECHANICAL 14TH FLOOR PART PLAN B	●	●	●		●	●
M-137	MECHANICAL 15TH FLOOR PART PLAN A	●	●	●		●	●
M-138	MECHANICAL 15TH FLOOR PART PLAN B	●	●	●		●	●
M-139	MECHANICAL 16TH FLOOR PART PLAN A			●		●	●
M-140	MECHANICAL 16TH FLOOR PART PLAN B			●		●	●
M-141	MECHANICAL 17TH FLOOR PART PLAN A	●	●	●	●	●	●
M-142	MECHANICAL 17TH FLOOR PART PLAN B	●	●	●	●	●	●
M-143	MECHANICAL 18TH FLOOR PART PLAN A	●	●	●	●	●	●
M-144	MECHANICAL 18TH FLOOR PART PLAN B	●	●	●	●	●	●
M-145	MECHANICAL 19TH FLOOR PART PLAN A			●		●	●
M-146	MECHANICAL 19TH FLOOR PART PLAN B			●		●	●
M-147	MECHANICAL 20TH FLOOR PART PLAN A			●		●	●
M-148	MECHANICAL 20TH FLOOR PART PLAN B			●		●	●
M-149	MECHANICAL 21ST FLOOR PART PLAN A		●	●		●	●
M-150	MECHANICAL 21ST FLOOR PART PLAN B		●	●		●	●
M-151	MECHANICAL 22ND-30TH FLOOR PLAN	●	●	●		●	●
M-160	MECHANICAL 31ST FLOOR PLAN			●		●	●
M-161	MECHANICAL 32ND FLOOR PLAN	●	●	●	●	●	●
M-162	MECHANICAL 33RD FLOOR PLAN	●	●	●	●	●	●
M-163	MECHANICAL 34TH THRU 36TH FLOOR PLAN			●		●	●
M-166	MECHANICAL 37TH FLOOR PLAN		●	●		●	●
M-167	MECHANICAL 38TH FLOOR PLAN			●		●	●
M-168	MECHANICAL 39TH-40TH FLOOR PLAN			●		●	●
M-170	MECHANICAL 41ST FLOOR PLAN			●		●	●
M-171	MECHANICAL 42ND FLOOR PLAN			●		●	●
M-172	MECHANICAL 43RD FLOOR PLAN						
M-173	MECHANICAL 44TH FLOOR PLAN						
M-174	TOWER B FLOOR PLAN						
M-175	TOWER C FLOOR PLAN						
M-201	MECHANICAL SECTION 1				●		
M-401	MECHANICAL PART PLAN 1				●		
M-501	MECHANICAL MASTER AIR RISER DIAGRAM 1		●	●		●	●
M-502	MECHANICAL MASTER AIR RISER DIAGRAM 2		●	●		●	●
M-503	MECHANICAL AIR SIDE RISER DIAGRAM 2	●	●	●		●	●
M-504	MECHANICAL AIR SIDE RISER DIAGRAM 3	●	●	●		●	●
M-505	MECHANICAL AIR SIDE RISER DIAGRAM 4	●	●	●		●	●
M-506	MECHANICAL AIR SIDE RISER DIAGRAM 5	●	●	●		●	●
M-507	MECHANICAL AIR SIDE RISER DIAGRAM 6	●	●	●		●	●
M-508	MECHANICAL AIR SIDE RISER DIAGRAM 7	●	●	●		●	●
M-509	MECHANICAL AIR SIDE RISER DIAGRAM 8	●	●	●		●	●
M-510	MECHANICAL MASTER WATER SIDE DIAGRAM	●	●	●	●	●	●
M-511	MECHANICAL WATER RISER DIAGRAM 2	●	●	●		●	●
M-512	MECHANICAL WATER RISER DIAGRAM 3	●	●	●		●	●
M-513	MECHANICAL WATER RISER DIAGRAM 4	●	●	●		●	●
M-514	MECHANICAL WATER RISER DIAGRAM 5	●	●	●		●	●
M-515	MECHANICAL WATER RISER DIAGRAM 6	●	●	●		●	●
M-516	MECHANICAL WATER RISER DIAGRAM 7	●	●	●		●	●
M-601	MECHANICAL SCHEDULES 1	●	●	●	●	●	●
M-602	MECHANICAL SCHEDULES 2	●	●	●	●	●	●
M-603	MECHANICAL SCHEDULES 3	●	●	●		●	●
M-701	MECHANICAL DETAILS 1	●	●	●	●	●	●
M-702	MECHANICAL DETAILS 2	●	●	●	●	●	●
M-703	MECHANICAL DETAILS 3	●	●	●	●	●	●
M-704	MECHANICAL DETAILS 4	●	●	●	●	●	●
M-705	MECHANICAL DETAILS 5	●	●	●	●	●	●
M-706	MECHANICAL DETAILS 6	●	●	●	●	●	●
M-707	MECHANICAL DETAILS 7	●	●	●	●	●	●

MECHANICAL SCOPE OF WORK FOR ALT-1

THESE DRAWINGS ARE USED FOR INITIAL INFRASTRUCTURE APPROVAL FROM NYC DEVELOPMENT HUB FOR FLOORS: BASEMENT LEVEL & 13 THROUGH 42. LPC/EXTERIOR SPACES & NON-R2 SERVICES ARE NOT PART OF THIS APPLICATION. DEMOLITION OF THESE FLOORS HAVE BEEN FILED UNDER A SEPARATE APPLICATION. REFER TO PLANS FOR AREA OF WORK AND AREAS NOT IN CONTRACT.

HVAC ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AH	AIR HANDLING UNIT
AL	ACOUSTIC LINING
ATC	AUTOMATIC TEMPERATURE CONTROL
B	BOILER
B(500)	DIFFUSER TYPE - REFER TO SCHEDULE (CUBIC FEET PER MINUTE)
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CRP	CONDENSATE RETURN PUMP
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	DOMESTIC COLD WATER PIPING
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CT	COOLING TOWER
DHWS	DOMESTIC HOT WATER SUPPLY
DHWR	DOMESTIC HOT WATER RETURN
DX	DIRECT EXPANSION
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXISTING EQUIPMENT TO BE REMOVED
EWT	ENTER WATER TEMPERATURE
FXC	FLEXIBLE CONNECTION
FC	FAN COIL
FD	FIRE DAMPER WITH ACCESS DOOR
FLA	FULL LOAD AMPS
FPI	FIN PER INCH
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FSD	COMBINATION FIRE/SMOKE DAMPER WITH ACCESS DOOR
FTR	FIN TUBE RADIATION
G	GAS PIPING
GPM	GALLONS PER MINUTE
GS&R	GLYCOL SUPPLY & RETURN
GX	GENERAL EXHAUST
HWP	HOT WATER PUMP
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HX	HEAT EXCHANGER
HZ	HERTZ
IU	INDUCTION UNIT
KW	KILOWATT
KX	KITCHEN EXHAUST
LAT	LEAVING AIR TEMPERATURE
LPR	LOW PRESSURE RETURN
LPS	LOW PRESSURE SUPPLY (BELOW 15 PSIG)
LRD	LINEAR RETURN DIFFUSE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS (BELOW 15 PSIG)
MD	MOTORIZED DAMPER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OED	OPEN END DUCT
PC	PUMPED CONDENSATE
PD	PUMP DISCHARGE
PH	PHASE
PSI	POUND PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
RF	RETURN FAN
SD	SMOKE DETECTOR
SD/AD	SMOKE DAMPER WITH DUCT ACCESS DOOR
TO	TRANSFER OPENING
TR	TOP REGISTER
TX	TOILET EXHAUST
TYP	TYPICAL
VN	VENT
V	VOLTS
VAV	VARIABLE AIR VOLUME
VCRP	VACUUM RETURN PUMP
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN

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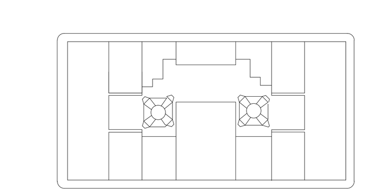

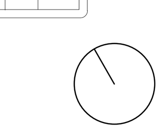

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MECHANICAL NOTES

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M-001

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HVAC DUCTWORK SYMBOL LIST

18X12	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
18Ø	ROUND DUCT DIAMETER
	ACOUSTIC LINING IN DUCT
AD	ACCESS DOOR IN DUCT
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT
VD	VOLUME DAMPER
FD	FIRE DAMPER W/ DUCT ACCESS DOOR
MD	MOTORIZED DAMPER W/DUCT ACCESS DOOR
SD	SMOKE DAMPER W/DUCT ACCESS DOOR
C.S.D.	COMBINATION FIRE/SMOKE DAMPER W/DUCT ACCESS DOOR
	SUPPLY REGISTER
	RETURN OR EXHAUST REGISTER OR GRILLE
	SUPPLY CEILING DIFFUSER (4-WAY BLOW)
	SUPPLY CEILING DIFFUSER (3-WAY BLOW)
	SUPPLY CEILING DIFFUSER (2-WAY BLOW)
	SUPPLY CEILING DIFFUSER (1-WAY BLOW)
B(500)	DIFFUSER TYPE AND CFM (CUBIC FEET PER MINUTE). REFER TO SCHEDULE.
	RETURN CEILING GRILLE OR REGISTER
	SUPPLY LINEAR DIFFUSER W/ PLENUM
	RETURN LINEAR DIFFUSER W/ PLENUM
R	SLOPING RISE IN DUCT IN DIRECTION OF ARROW
R	SLOPING DROP IN DUCT IN DIRECTION OF ARROW
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	ELBOW WITH TURNING VANES
	RADIUS ELBOW
	DUCT SPLIT OR BRANCH TAKEOFF
	DOOR LOUVER
	UNDERCUT DOOR
	FIN TUBE RADIATION
HC CC PHC	COIL HC=HEATING COIL CC=COOLING COIL COIL PHC=PREHEAT COIL
50 FT.	TRANSFER GRILLES ON BOTH SIDES OF WALL/PARTITION AND SQ. FT. OPENING SIZE
	CONTINUATION FOR DUCTWORK
50 FT.	TRANSFER OPENING IN WALL/PARTITION AND SQ. FT. OPENING SIZE
	FAN (RISER)
	CEILING MOUNTED INLINE EXHAUST FAN
VAV B(500)	TERMINAL BOX (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE, AND CFM. QUANTITY (REFER TO SCHEDULES).
VAV B(500)	TERMINAL BOX WITH REHEAT COIL (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE AND CFM. QUANTITY (REFER TO SCHEDULES).
18X12	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
18Ø	ROUND DUCT DIAMETER
	ACCESS DOOR IN DUCT
	GRADUAL RISE IN DUCT
	GRADUAL DRIP IN DUCT
	ELBOW WIT TURNING VANES
	RADIUS ELBOW
	DUCT SPLIT
	BRANCH TAKEOFF
	DOUBLE LINE DUCTWORK CONTINUATION
	EXISTING DUCTWORK TO REMAIN
	EXISTING DUCTWORK TO BE REMOVED
	NEW DUCT WORK
	DUCTWORK WITH ACOUSTIC LINING
	CEILING DIFFUSER (SUPPLY)
	CEILING REGISTER/CEILING GRILLE (RETURN OR EXHAUST)
	REGISTER (SUPPLY)
	REGISTER RETURN OR EXHAUST
VD	VOLUME DAMPER
FD/AD	FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
MD	MOTORIZED DAMPER W/DUCT ACCESS DOOR
C.S.D.	COMBINATION FIRE/SMOKE DAMPER W/DUCT ACCESS DOOR
SD	SMOKE DAMPER W/DUCT ACCESS DOOR
	FLEXIBLE CONNECTION

HVAC PIPING SYMBOL LIST

CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CW	DOMESTIC COLD WATER MAKE-UP
HWS	HOT WATER SUPPLY.(UP TO 220° AND 160 PSIG)
HWR	HOT WATER RETURN
H/CS	HOT/CHILLED WATER SUPPLY
H/CR	HOT/CHILLED WATER RETURN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FOG	FUEL OIL-GAUGE LINE
FOF	FUEL OIL FILL
G	GAS LINE
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
A	COMPRESSED AIR LINE
D	DRAIN LINE (GRAVITY)
PD	PUMP DISCHARGE COLD OR HOT. (LESS THAN 210°) CONDENSATE.
V	VENT LINE
PCWS	PRIMARY CONDENSER WATER SUPPLY
PCWR	PRIMARY CONDENSER WATER RETURN
SCWS	SECONDARY CONDENSER WATER SUPPLY
SCWR	SECONDARY CONDENSER WATER RETURN
PCHWS	PRIMARY CHILLED WATER SUPPLY
PCHWR	PRIMARY CHILLED WATER RETURN
SCHWS	SECONDARY CHILLED WATER SUPPLY
SCHWR	SECONDARY CHILLED WATER RETURN
HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY. (350°F TO 400°F AND 300 PSIG)
HTHWR	HIGH TEMPERATURE HOT WATER RETURN
MTHWS	MEDIUM TEMPERATURE HOT WATER SUPPLY. (250° TO 350° UP TO 160 PSIG)
MTHWR	MEDIUM TEMPERATURE HOT WATER RETURN
RD	REFRIGERANT DISCHARGE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RV	REFRIGERANT-SAFETY VALVE RELIEF LINE
HPS	HIGH PRESSURE STEAM (GREATER THAN 15 PSIG)
HPR	HIGH PRESSURE STEAM CONDENSATE (GRAVITY) RETURN
LPS	LOW PRESSURE STEAM (15 PSIG AND BELOW)
LPR	LOW PRESSURE CONDENSATE GRAVITY RETURN
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION JOINT (SEE SPECIFICATION FOR TYPE)
	CONCENTRIC REDUCER (FLOW IN DIRECTION OF ARROW)
	ECCENTRIC REDUCER (FLOW IN DIRECTION OF ARROW)
	UNION
	PIPE FLANGE
	CAPPED PIPE
	CAPPED AND VALVE CONNECTION
	STRAINER WITH BLOW DOWN VALVE
	STRAINER
	BASKET TYPE STRAINER
	DUPLEX STRAINER
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	FLEXIBLE CONNECTION
	SHUT-OFF VALVE (GATE VALVE SEE SPECS)
	SHUT-OFF VALVE (BALL VALVE SEE SPECS)
	GLOBE VALVE
	CHECK VALVE
	AUTOMATIC THREE WAY VALVE
	AUTOMATIC TWO WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PLUG VALVE
	SOLENOID VALVE
	BUTTERFLY VALVE (MANUAL)
	BUTTERFLY VALVE (MOTORIZED)
	VALVE IN VERTICAL PIPE
	HOSE BIBB
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	THERMOMETER
	PIPE SENSOR WELL

HVAC PIPING SYMBOL LIST (CONTINUED)

	PRESSURE GAUGE WITH SHUT OFF VALVE
	PIPE SLEEVE
	LOW PRESSURE STEAM DRIP ASSEMBLY (SEE DETAIL).
	MEDIUM OR HIGH PRESSURE STEAM DRIP ASSEMBLY (SEE DETAIL)
PRV	PRESSURE REDUCING STATION
CP	CONDENSATE PUMP (SEE SCHEDULES FOR TYPE)
FLOW	FLOW METER
BTU	BTU METER
	FLOW SWITCH
	PRESSURE CONTROL
	PRESSURE RELIEF VALVE
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	FLEXIBLE CONNECTION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE (ARROW INDICATES FLOW DIRECTION. SEE SPECIFICATIONS FOR TYPE)
	AUTOMATIC THREE WAY VALVE
	AUTOMATIC TWO WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	PLUG VALVE
	SOLENOID VALVE
	BUTTERFLY VALVE (MANUAL)
	BUTTERFLY VALVE (MOTORIZED)
	PIPE GUIDE
	EXPANSION JOINT
	CONCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
	ECCENTRIC REDUCER (ARROW INDICATES FLOW DIRECTION)
	UNION
	CAPPED PIPE
	VALVED AND CAPPED CONNECTION (GATE)
	VALVED AND CAPPED CONNECTION (BALL)
	"Y" TYPE STRAINER WITH BLOW DOWN VALVE
	BASKET TYPE STRAINER
	DUPLEX STRAINER
	PIPE SLEEVE
P S	PLATE AND FRAME HEAT EXCHANGER (RISER)
	SHELL AND TUBE HEAT EXCHANGER (RISER)
	PUMP (RISER)
	GAS TURBINE
	STEAM TURBINE
MC	MOTOR CONTROL

HVAC LINE REPRESENTATION

	NEW PIPING, DUCTWORK OR EQUIPMENT
	EXISTING PIPING, DUCTWORK OR EQUIPMENT TO REMAIN
	EXISTING PIPING, DUCTWORK OR EQUIPMENT TO BE REMOVED
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED
E	EXISTING EQUIPMENT TO REMAIN
ER	EXISTING EQUIPMENT TO BE RELOCATED
RE	RELOCATED POSITION OF EXISTING EQUIPMENT

HVAC DRAWING NOTATIONS

	DRAWING NOTE TAG
A B	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A - SECTION DESIGNATION B - DRAWING NO.
	POINT OF NEW CONNECTION TO EXISTING WORK
	REMOVE AND PATCH EXISTING WORK
	REVISION SYMBOL

MISCELLANEOUS HVAC SYMBOLS

	THERMOSTAT, SELF CONTAINED TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.
H	HUMIDISTAT OR HUMIDITY SENSOR TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.
S	ELECTRIC ON/OFF THERMALLY PROTECTED SWITCH WITH PILOT LIGHT
SD	SMOKE DETECTOR
SD	DUCT MOUNTED SMOKE DETECTOR
	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUTDOWN
LD	SPOT TYPE LIQUID DETECTOR
	TIME CLOCK
	THERMOSTAT/SENSOR WIRING FROM SENSING DEVICE TO CONTROLLED DEVICE
SP	STATIC PRESSURE SENSOR
	STARTER / DISCONNECT SWITCH
	STARTER
	DISCONNECT
SC	SPEED CONTROLLER
	REMOTE BULB THERMOSTAT
T	TEMPERATURE SENSOR

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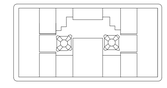

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MECHANICAL SYMBOLS

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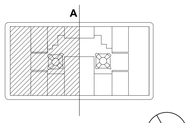

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MECHANICAL BASEMENT PART PLAN A

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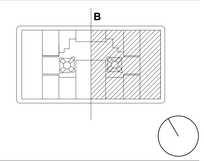

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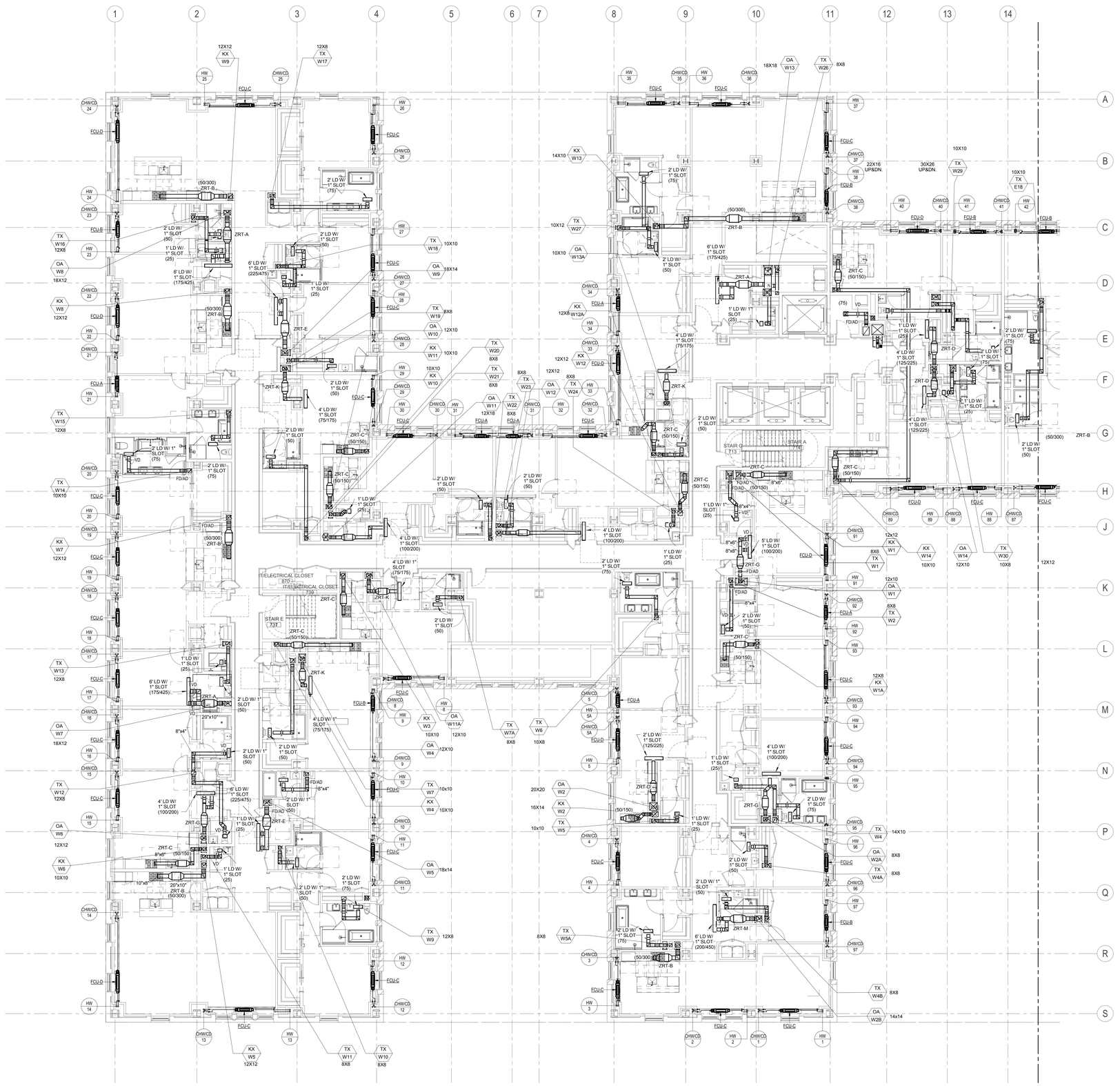

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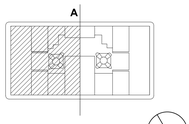

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MECHANICAL 13TH FLOOR PART PLAN A

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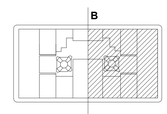

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MECHANICAL 13TH FLOOR PART PLAN B

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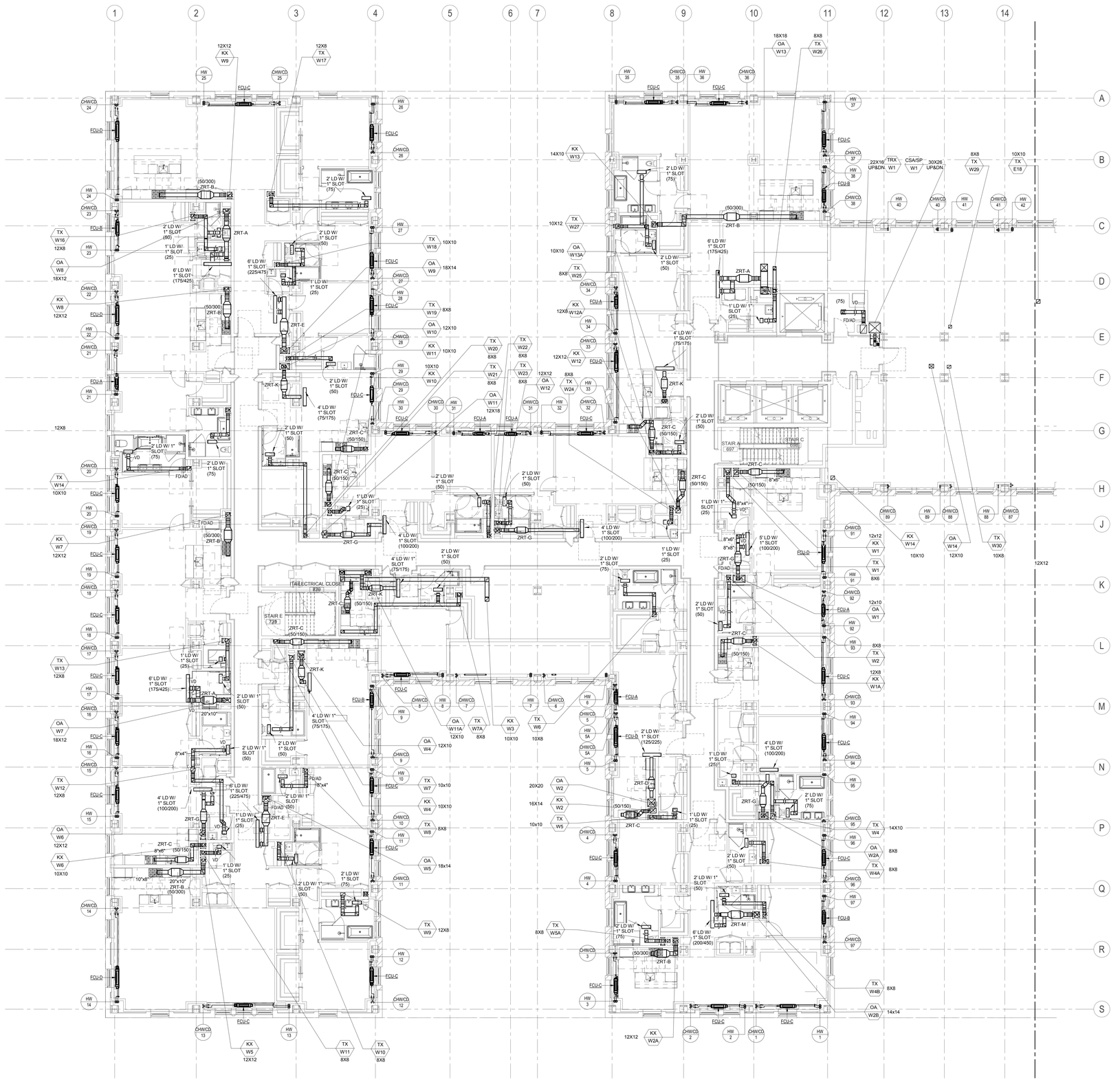

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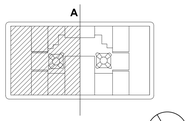

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MECHANICAL 14TH FLOOR PART PLAN A

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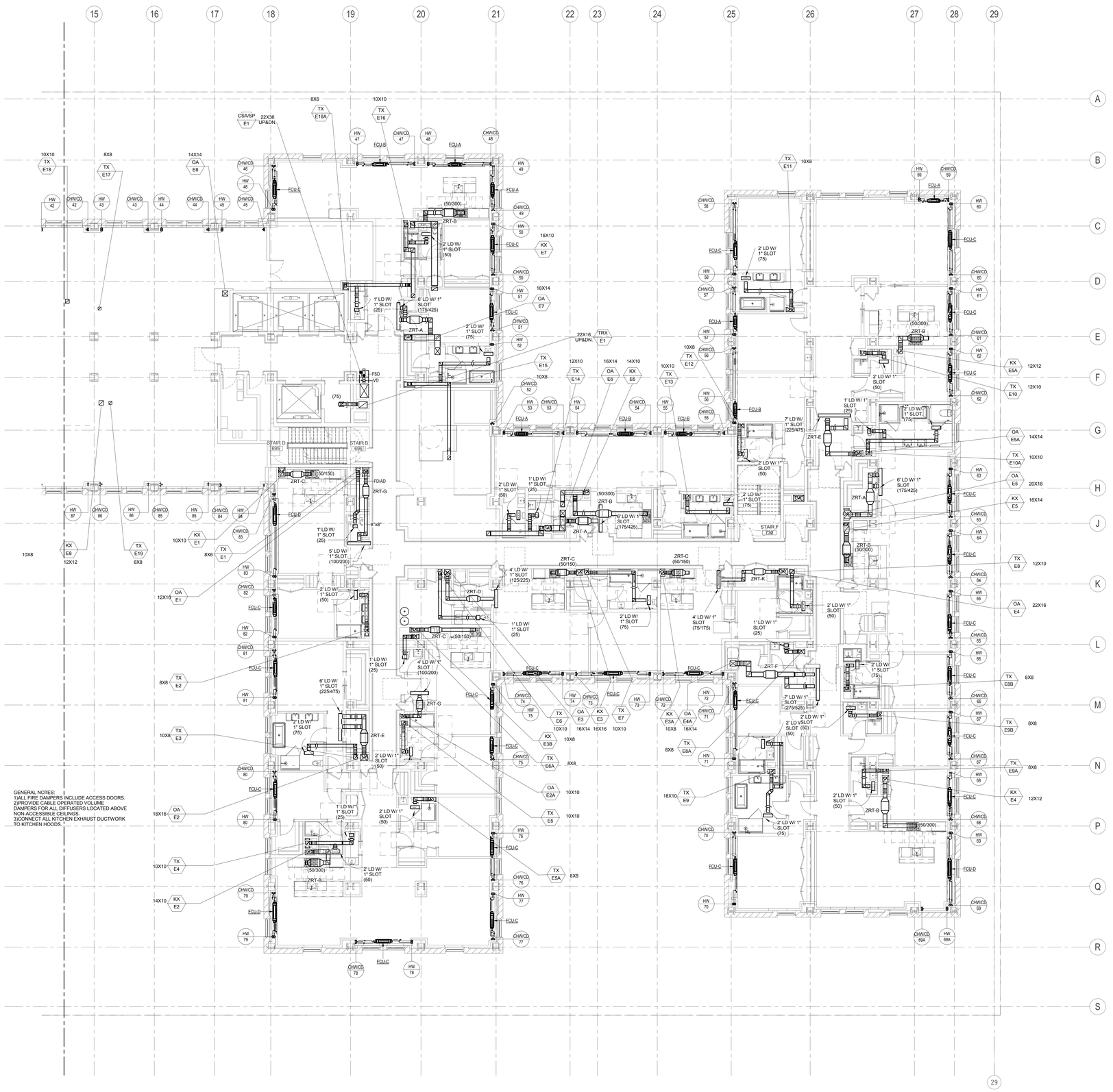

GENERAL NOTES:
1)ALL FIRE DAMPERS INCLUDE ACCESS DOORS.
2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.

1 HVAC - LEVEL 14 PART PLAN B
1/8" = 1'-0"

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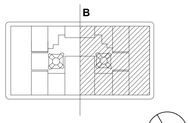

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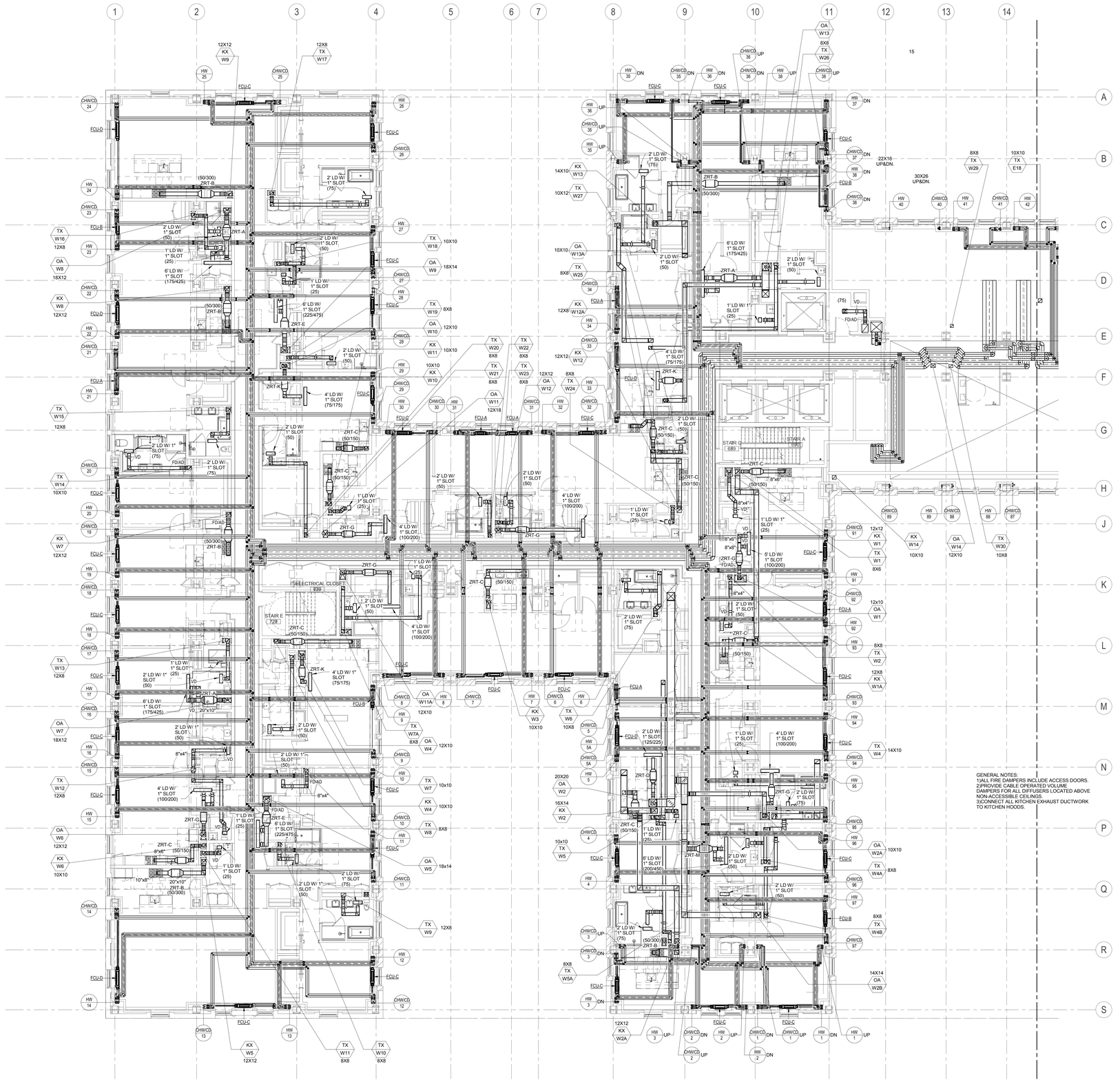

GENERAL NOTES:
1)ALL FIRE DAMPERS INCLUDE ACCESS DOORS.
2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.

1 HVAC - LEVEL 15 PART PLAN A
1/8" = 1'-0"

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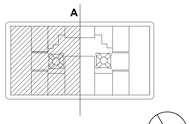

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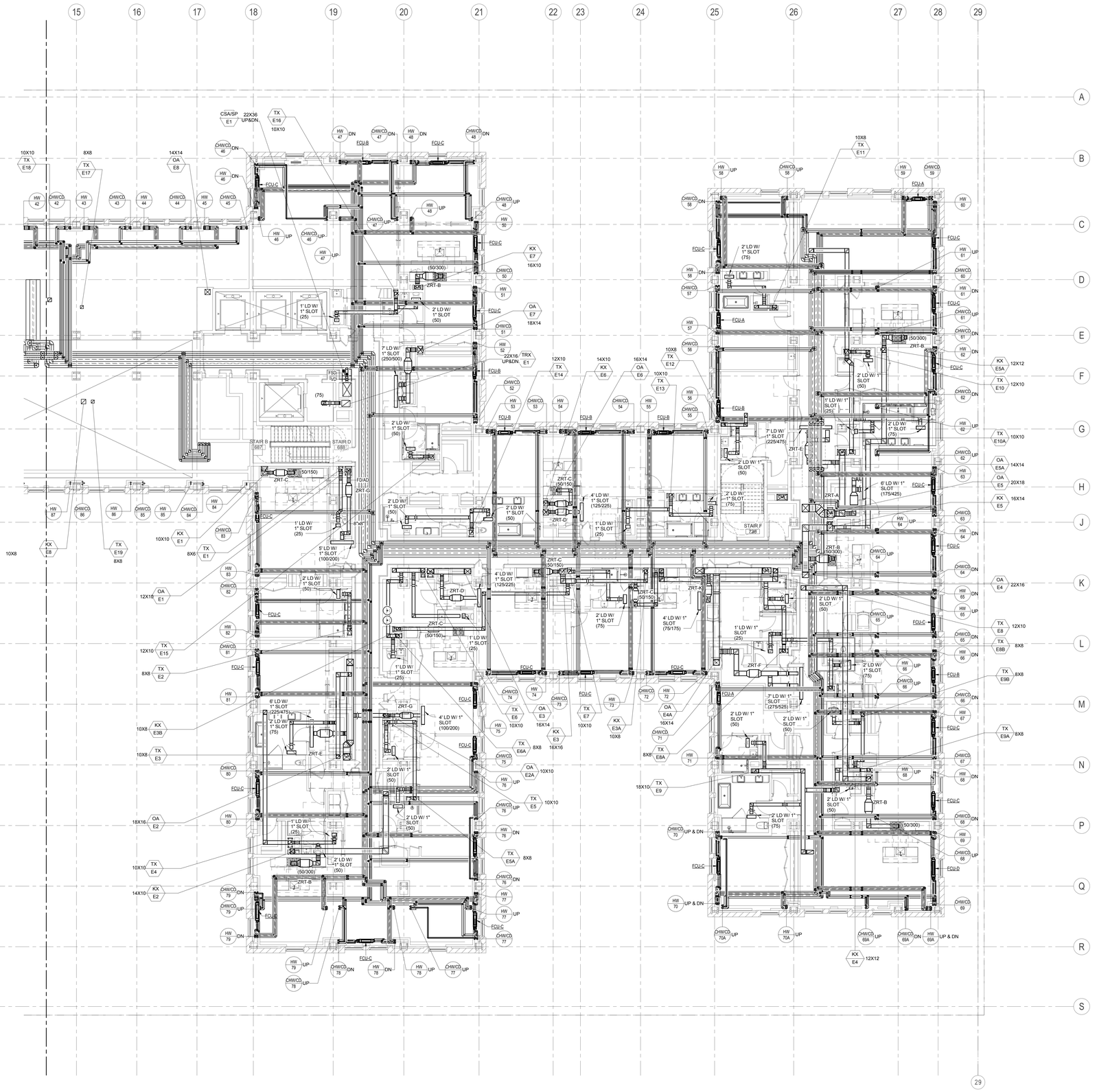

1 HVAC - LEVEL 15 PART PLAN B
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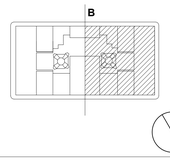

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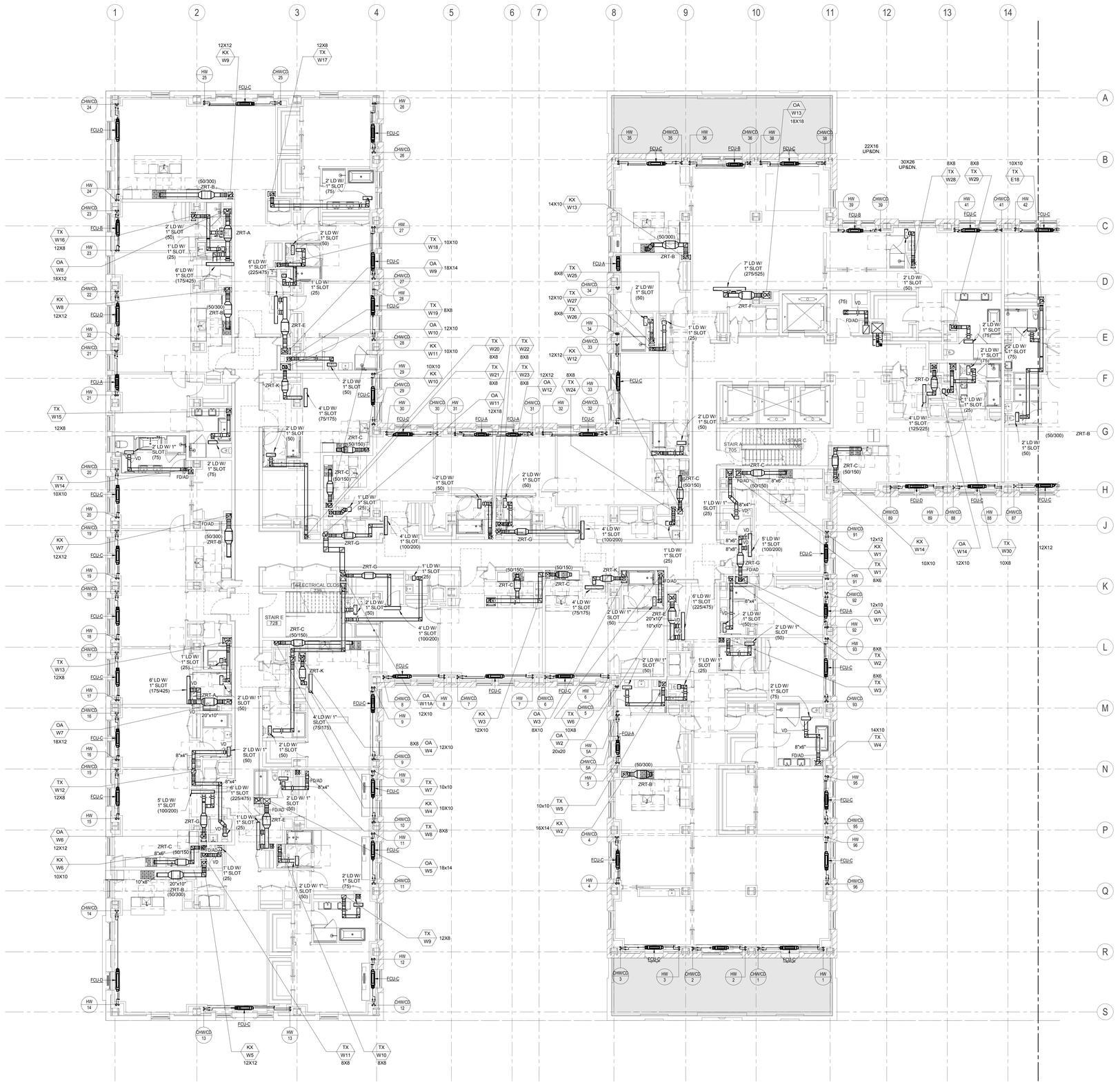

1 HVAC - LEVEL 16 PART PLAN A
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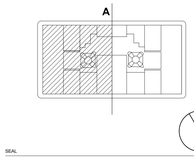

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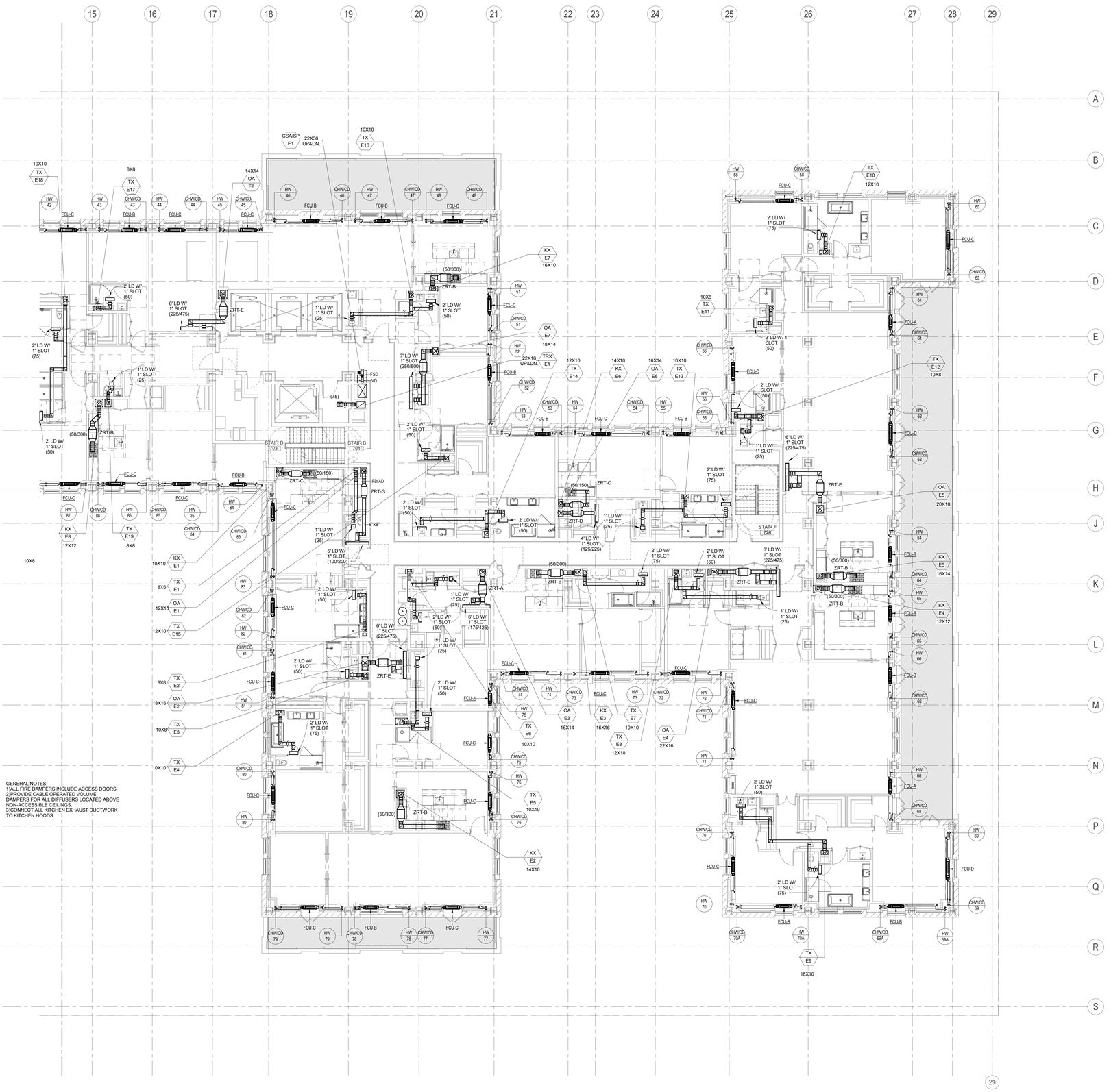

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1 HVAC - LEVEL 16 PART PLAN B
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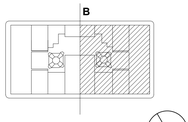

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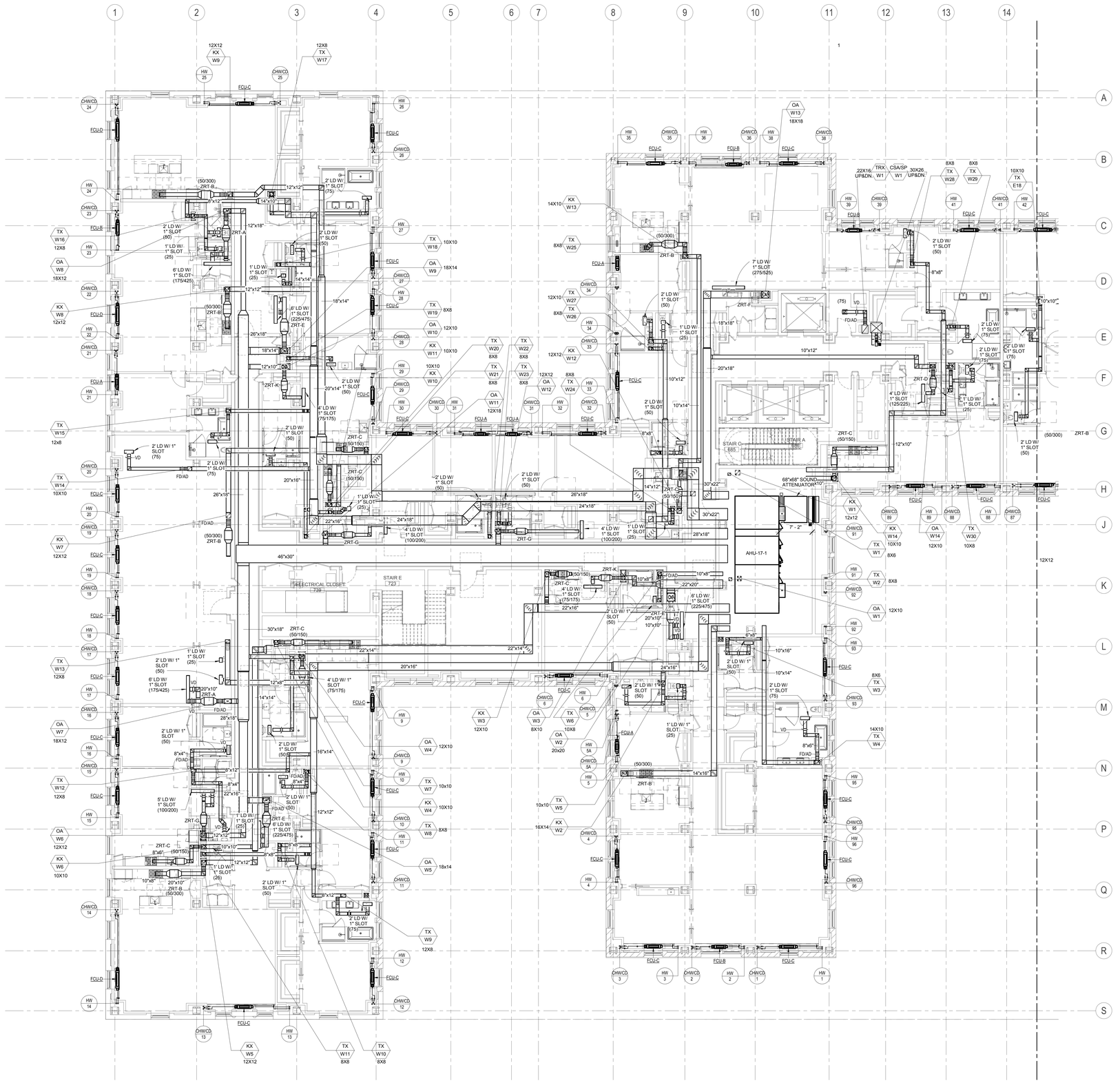

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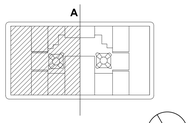

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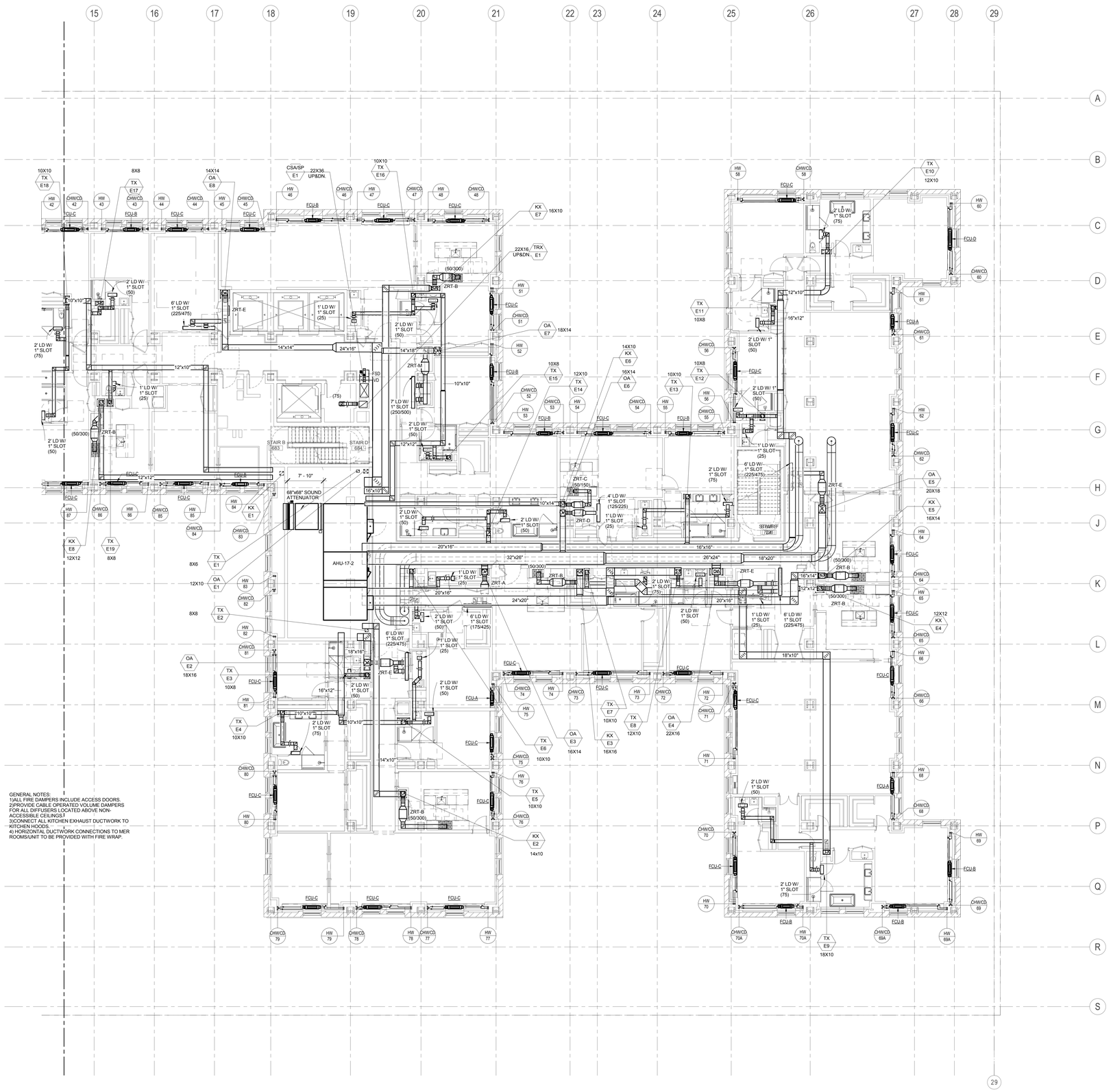

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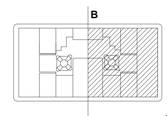

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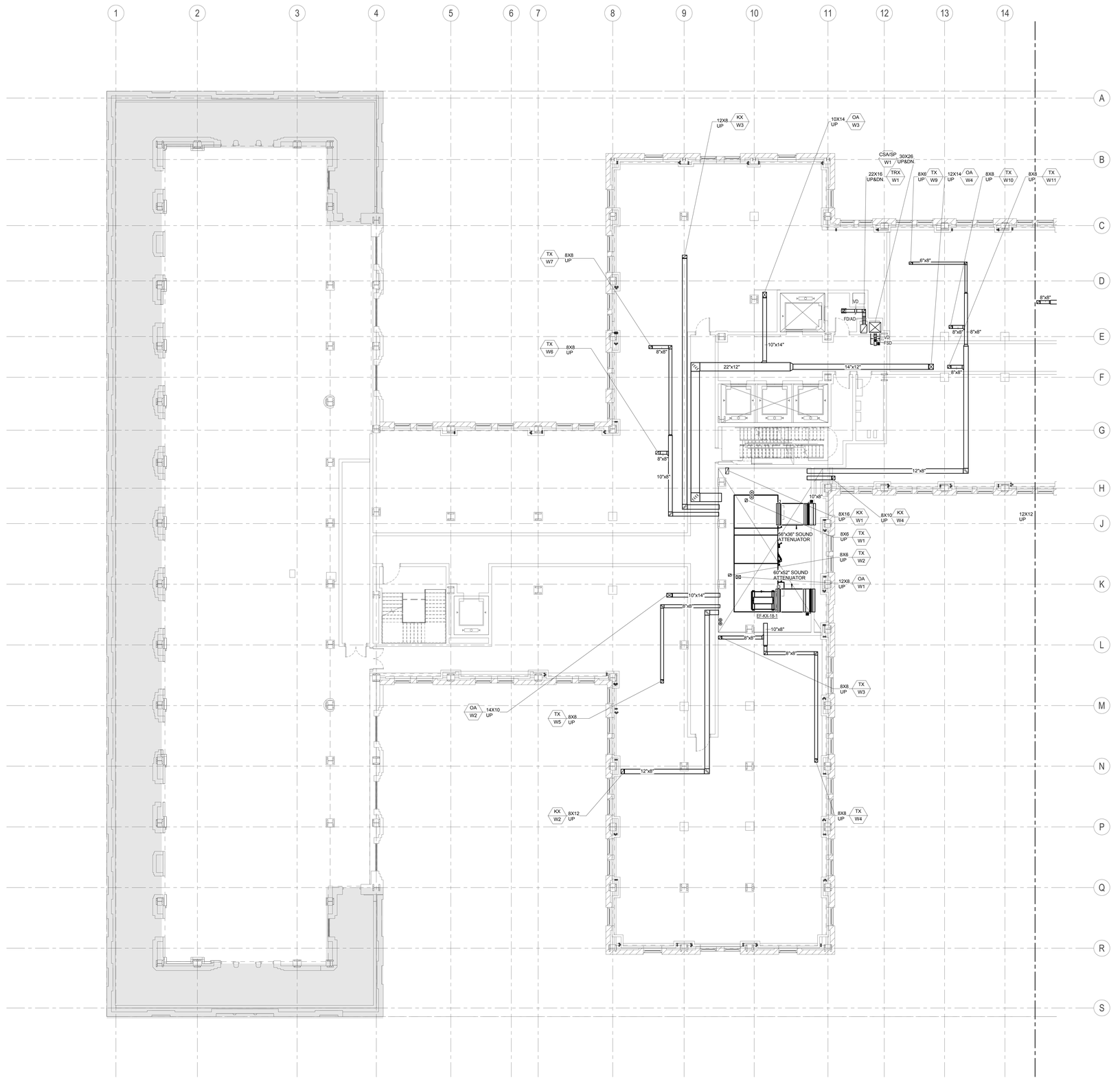

1 HVAC - LEVEL 18 PART PLAN A
1/8" = 1'-0"

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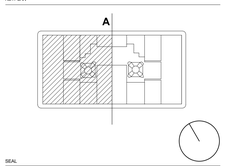

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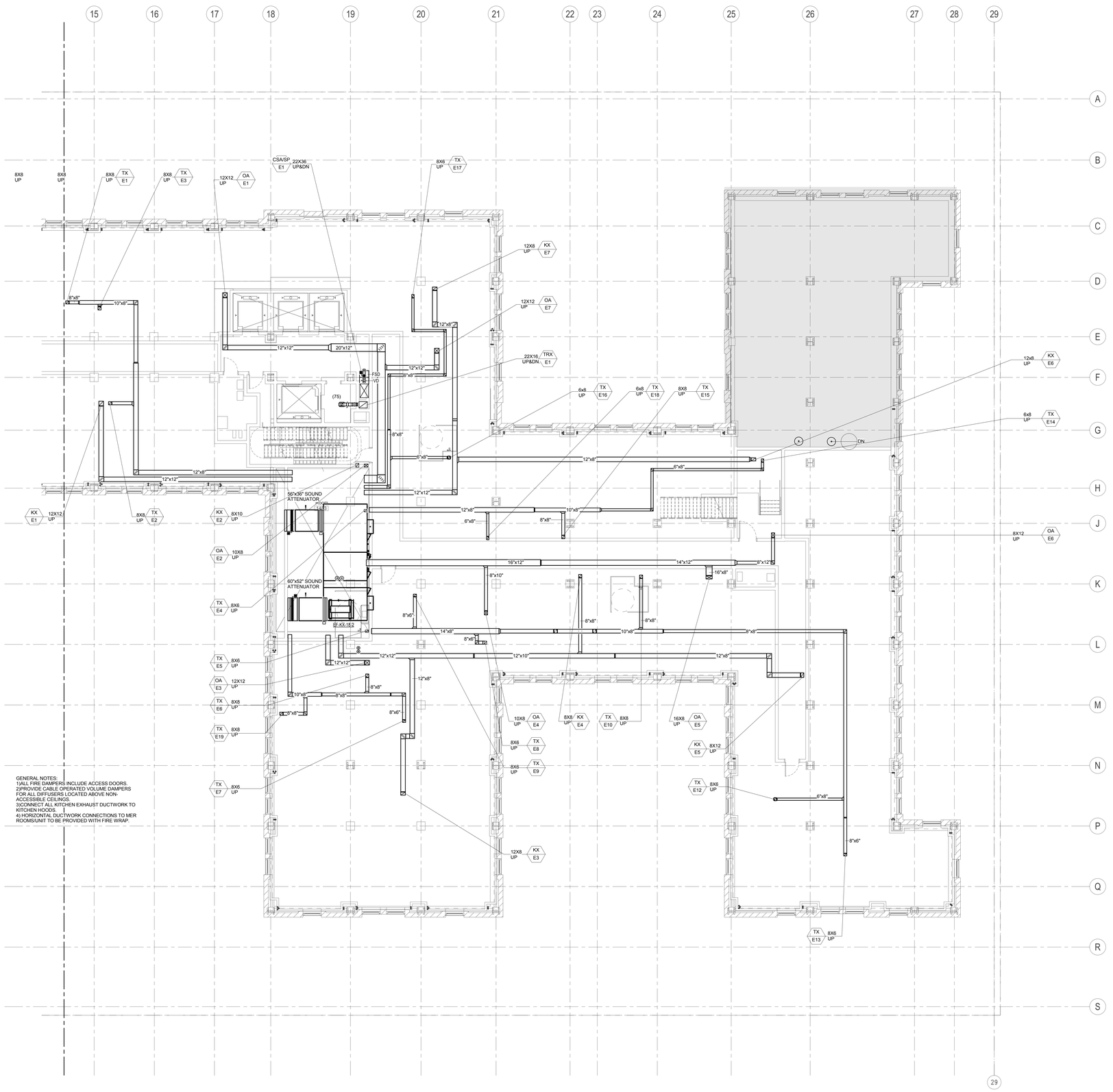

GENERAL NOTES:
1)ALL FIRE DAMPERS INCLUDE ACCESS DOORS.
2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.
4) HORIZONTAL DUCTWORK CONNECTIONS TO MER ROOMS/UNIT TO BE PROVIDED WITH FIRE WRAP.

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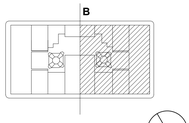

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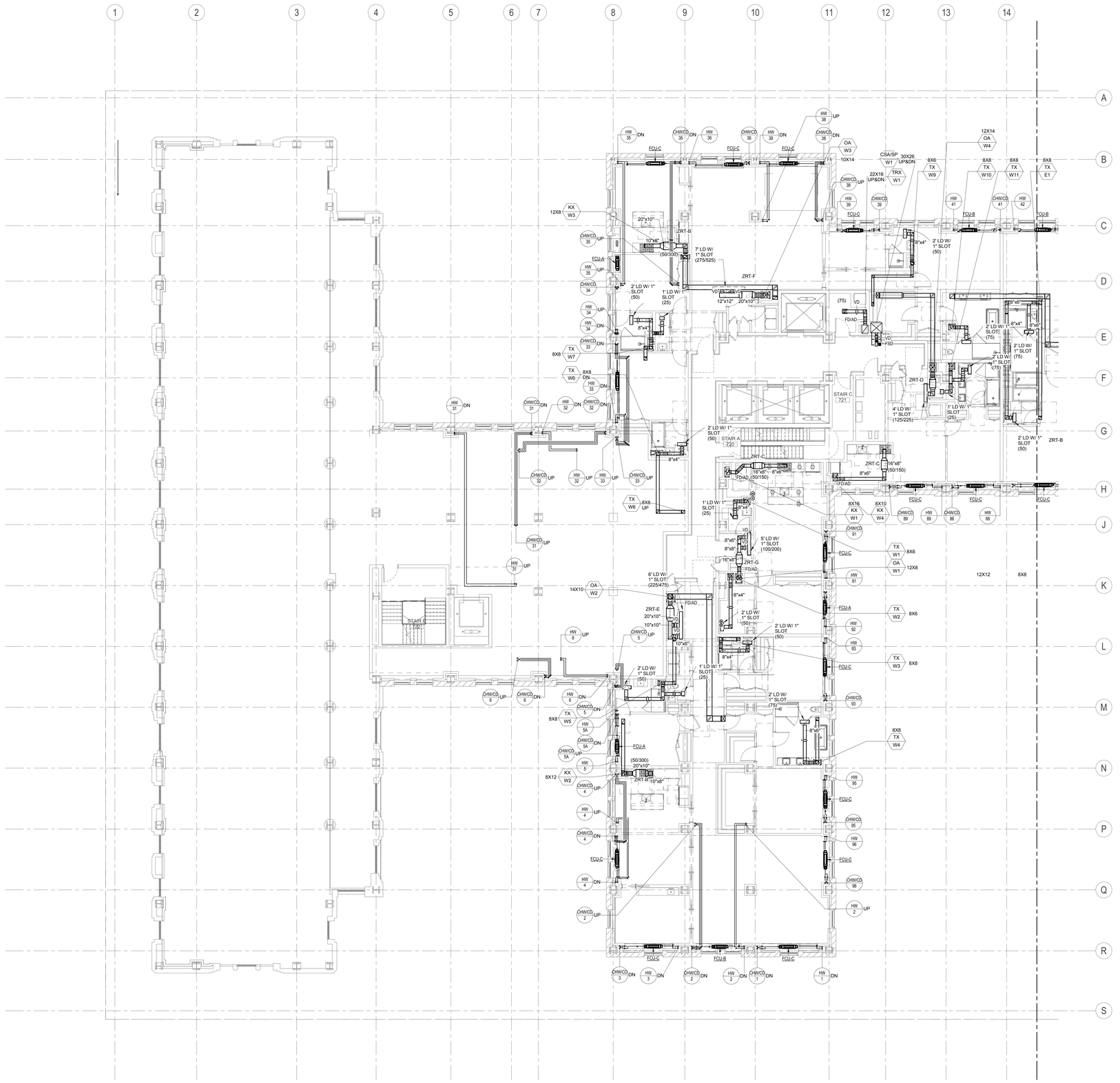

1 HVAC - LEVEL 19 PART PLAN A
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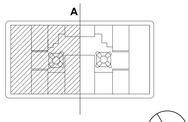

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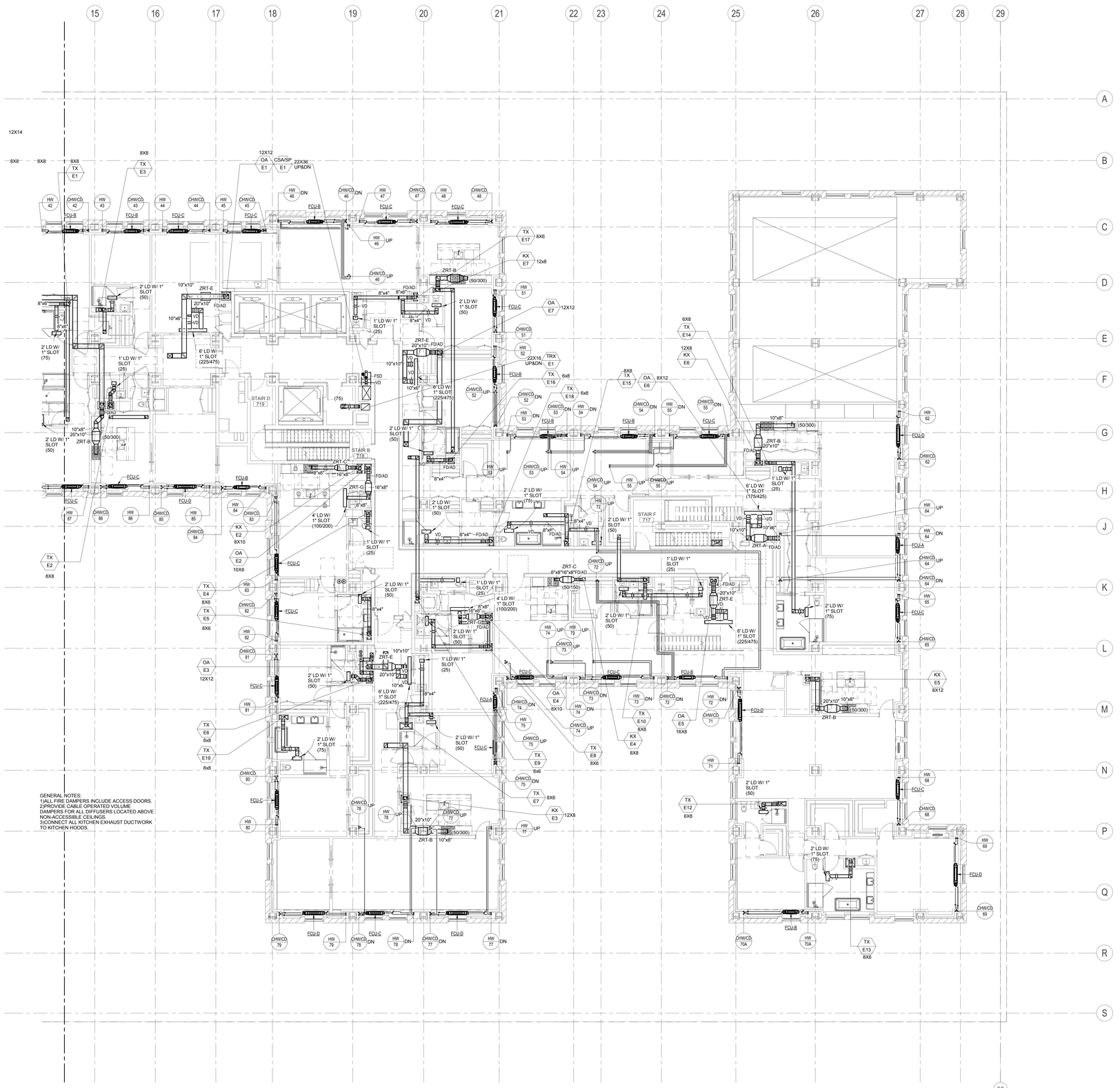

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2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.

1 HVAC - LEVEL 19 PART PLAN B
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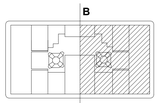

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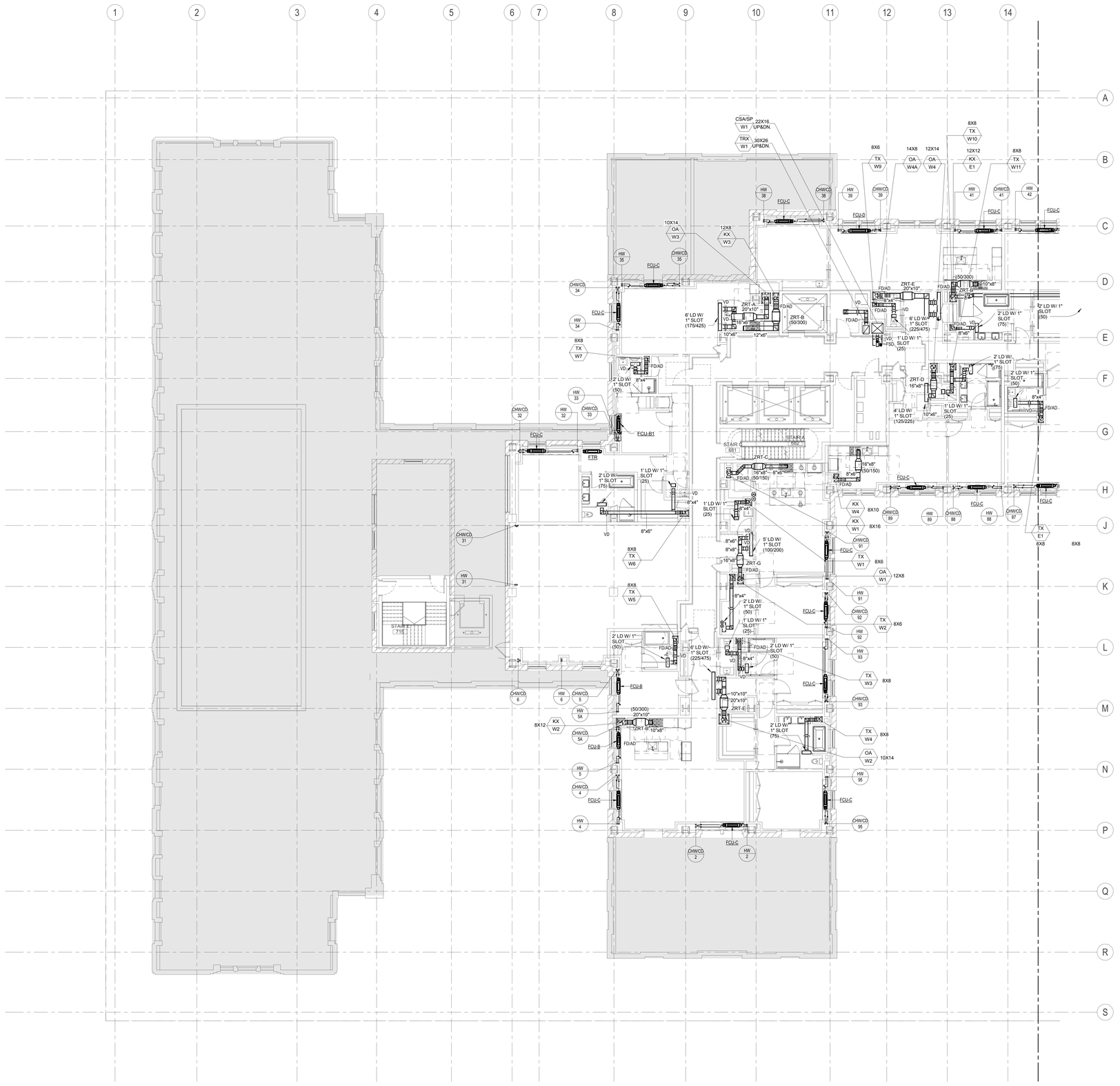

1 HVAC - LEVEL 20 PART PLAN A
1/8" = 1'-0"

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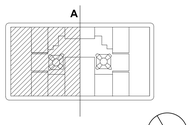

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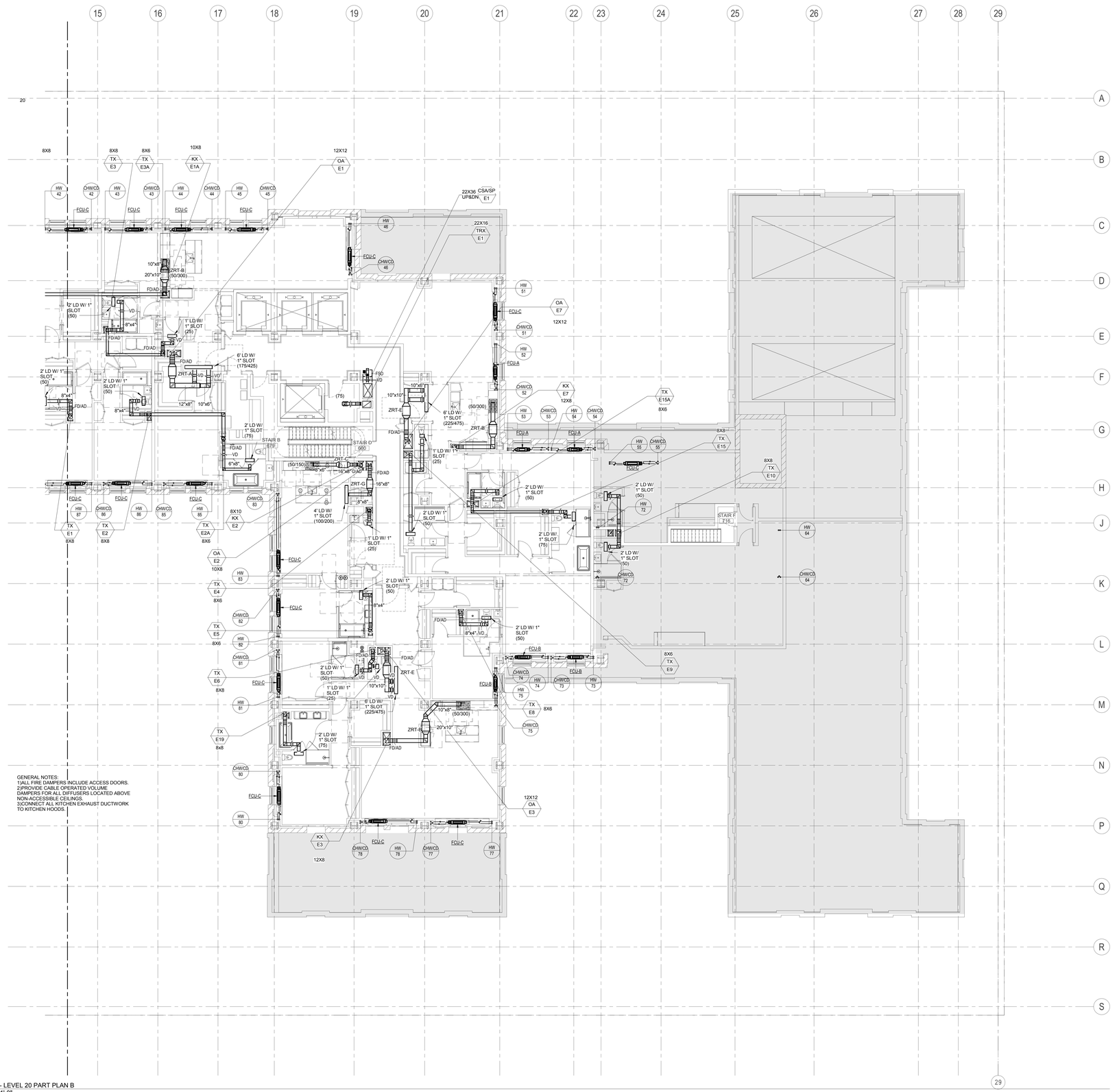

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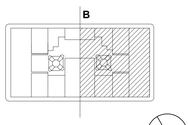

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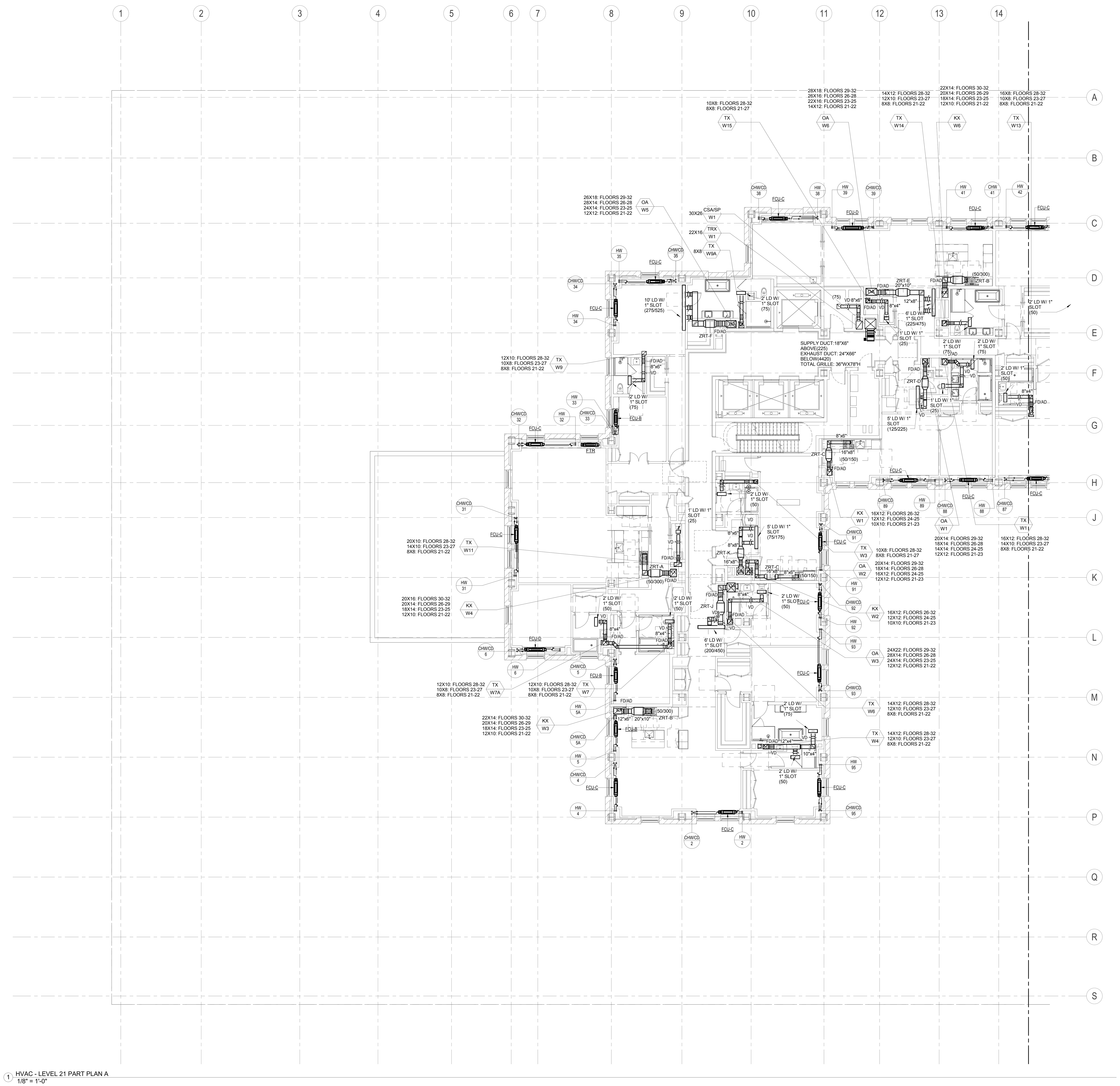

1 HVAC - LEVEL 21 PART PLAN A
1/8" = 1'-0"

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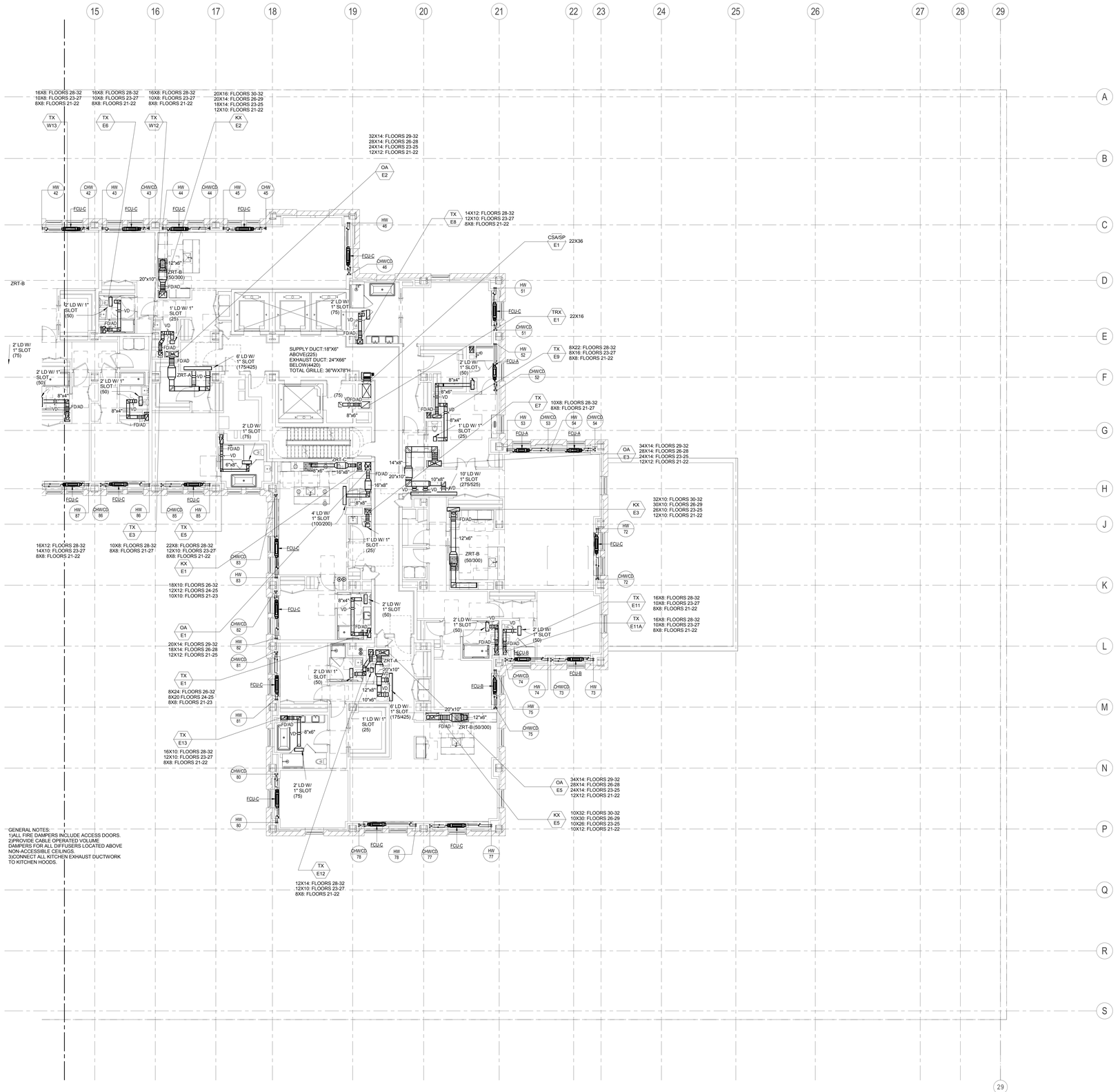

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1 HVAC - LEVEL 21 PART PLAN B
1/8" = 1'-0"

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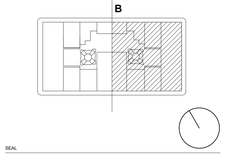

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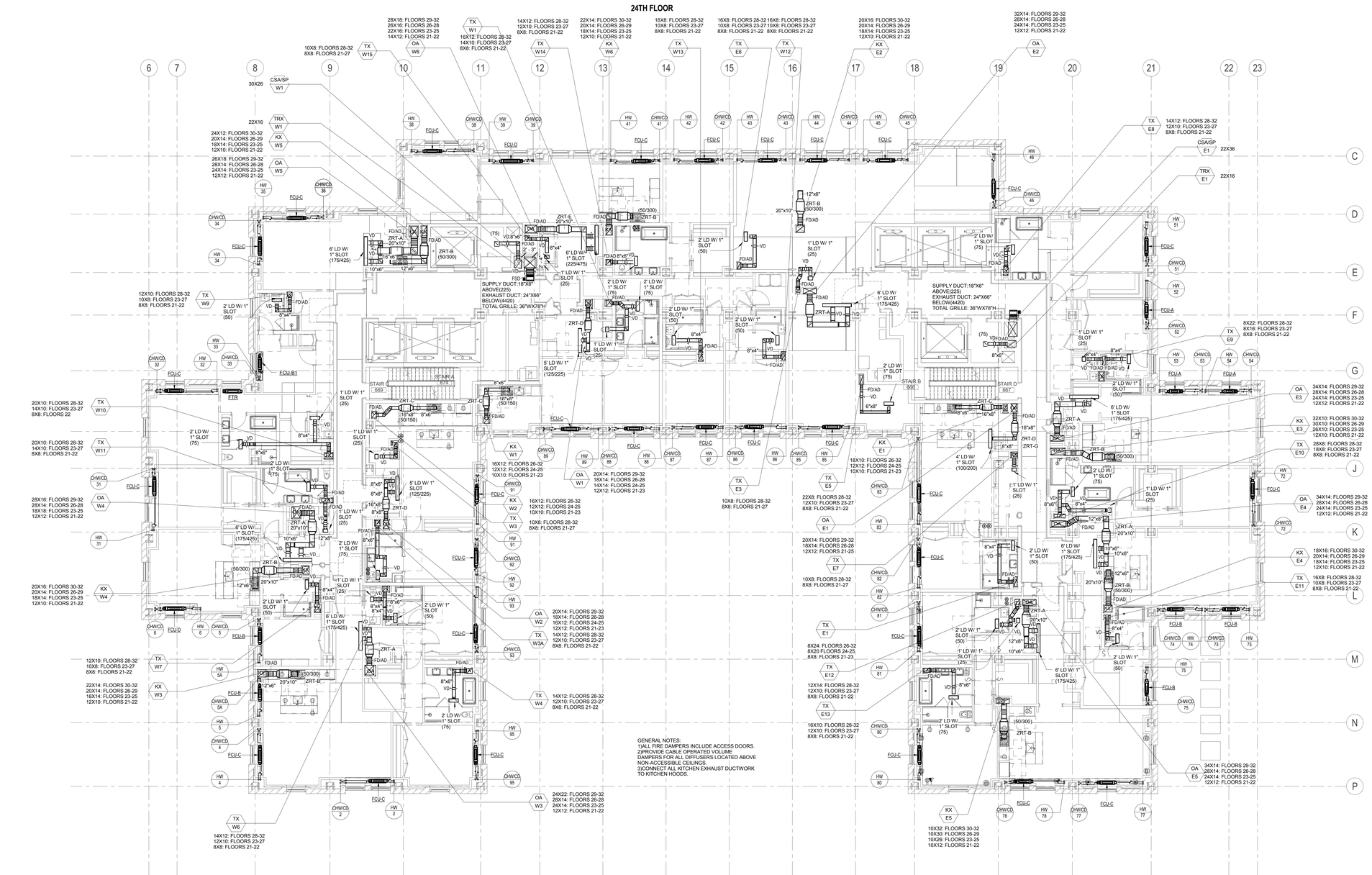

1 HVAC - LEVEL 24
1/8" = 1'-0"

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MECHANICAL 22ND-30TH FLOOR PLAN

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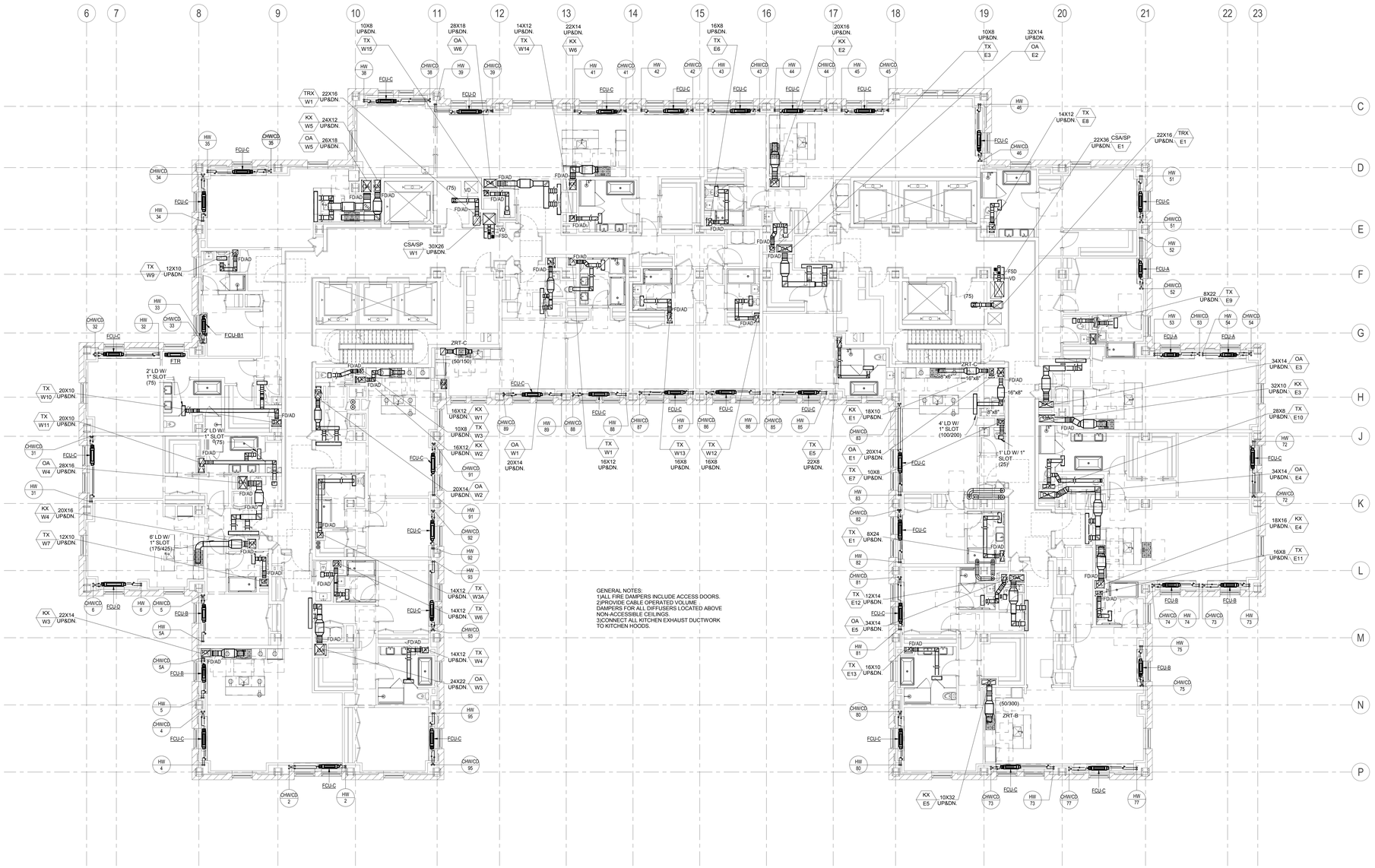

GENERAL NOTES:
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2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.

1 HVAC - LEVEL 31
1/8" = 1'-0"

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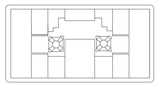

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MECHANICAL 31ST FLOOR PLAN

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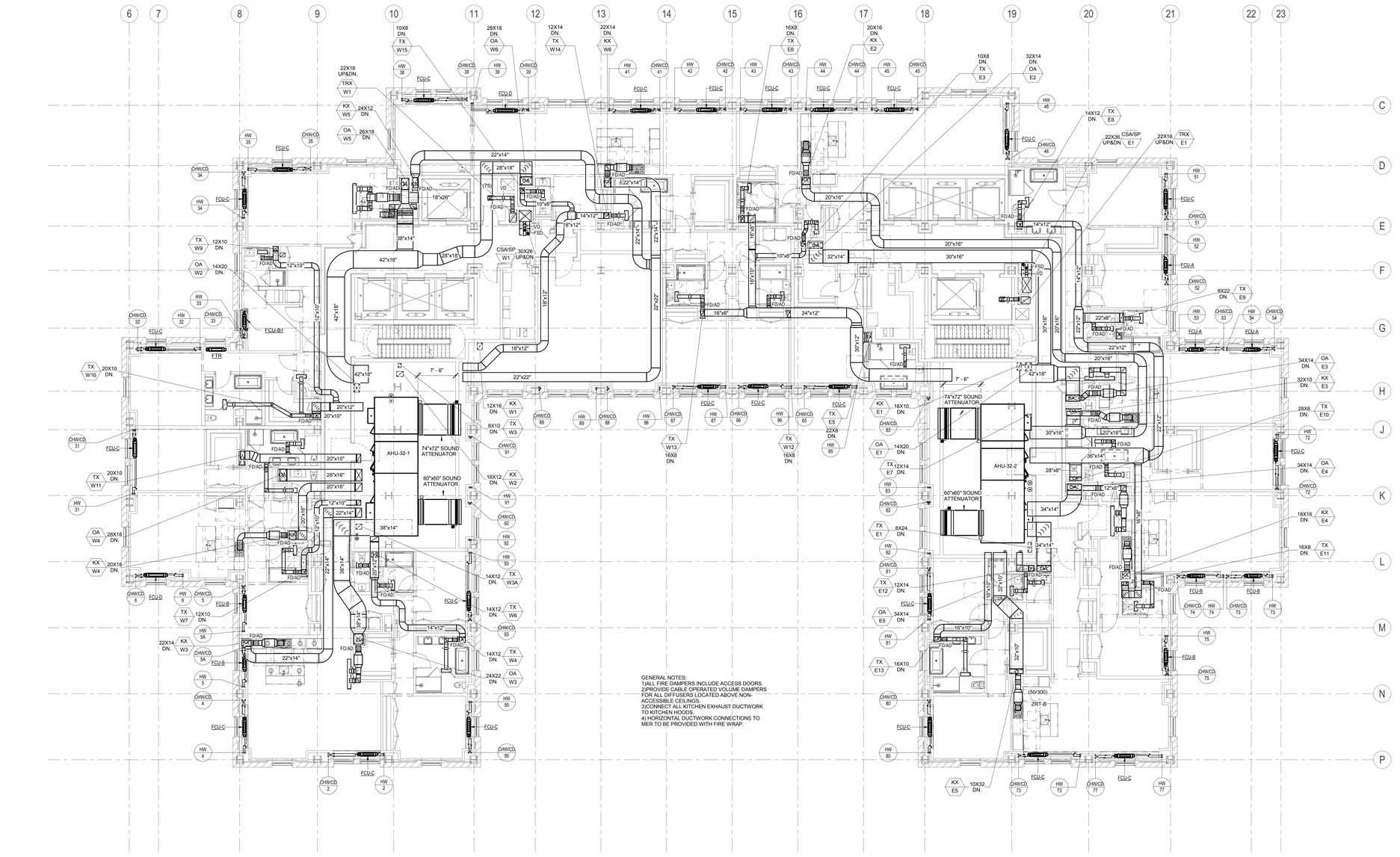

GENERAL NOTES:
1)ALL FIRE DAMPERS INCLUDE ACCESS DOORS.
2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.
4) HORIZONTAL DUCTWORK CONNECTIONS TO MER TO BE PROVIDED WITH FIRE WRAP.

1 HVAC - LEVEL 32
1/8" = 1'-0"

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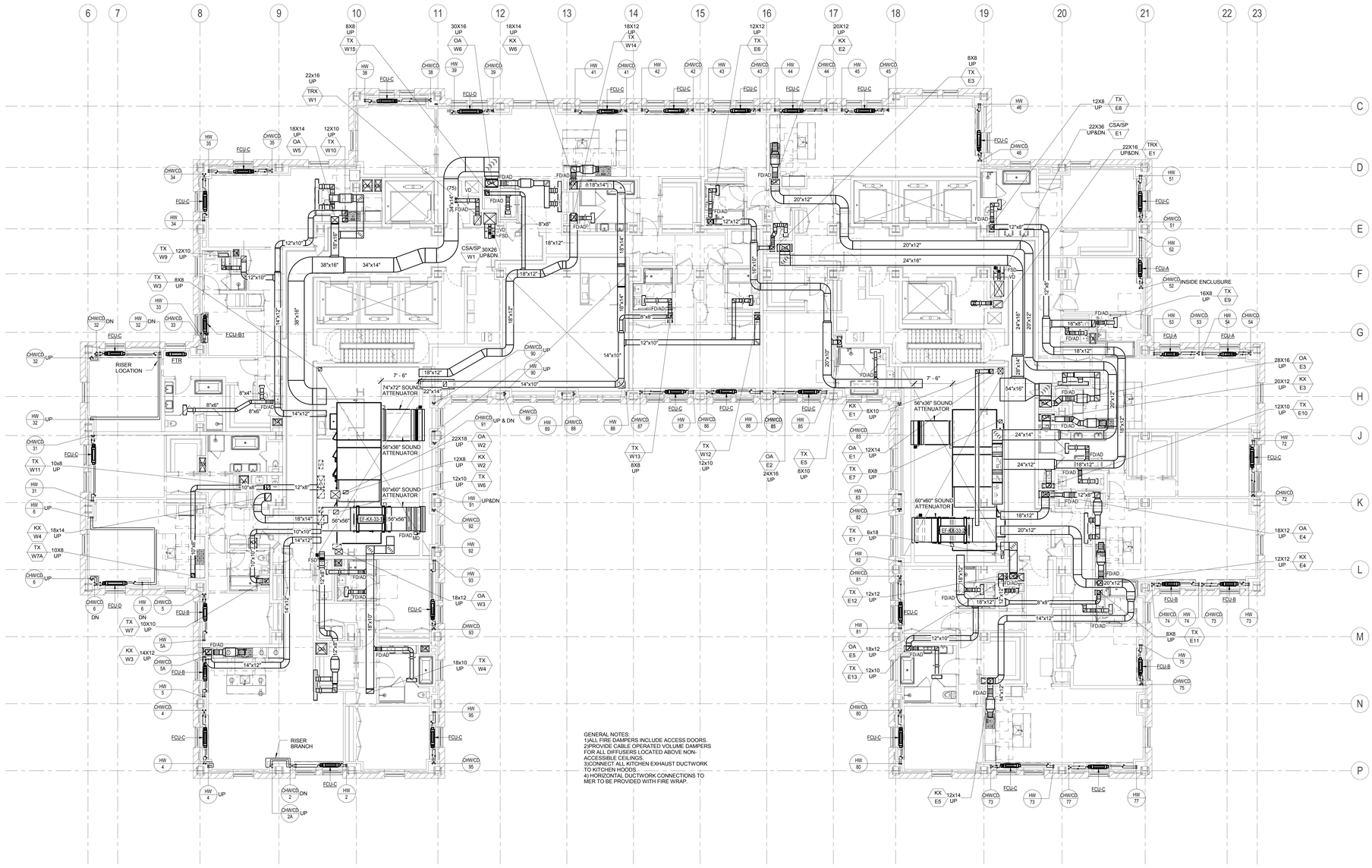

1 HVAC - LEVEL 33
1/8" = 1'-0"

GENERAL NOTES:
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2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.
4) HORIZONTAL DUCTWORK CONNECTIONS TO MER TO BE PROVIDED WITH FIRE WRAP.

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MECHANICAL 33RD FLOOR PLAN

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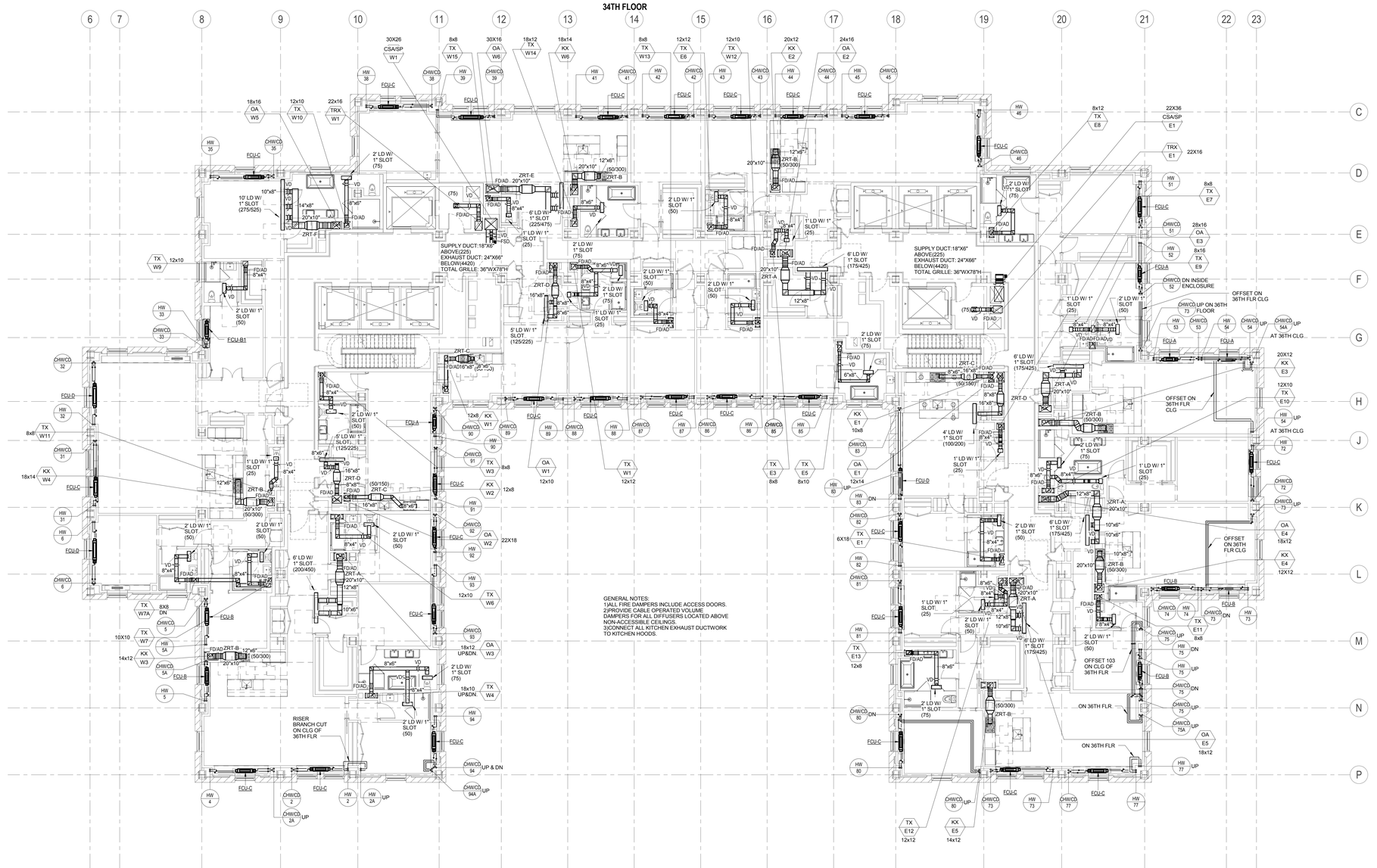

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2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
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1 HVAC - LEVEL 34
1/8" = 1'-0"

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MECHANICAL 34TH THRU 36TH FLOOR PLAN

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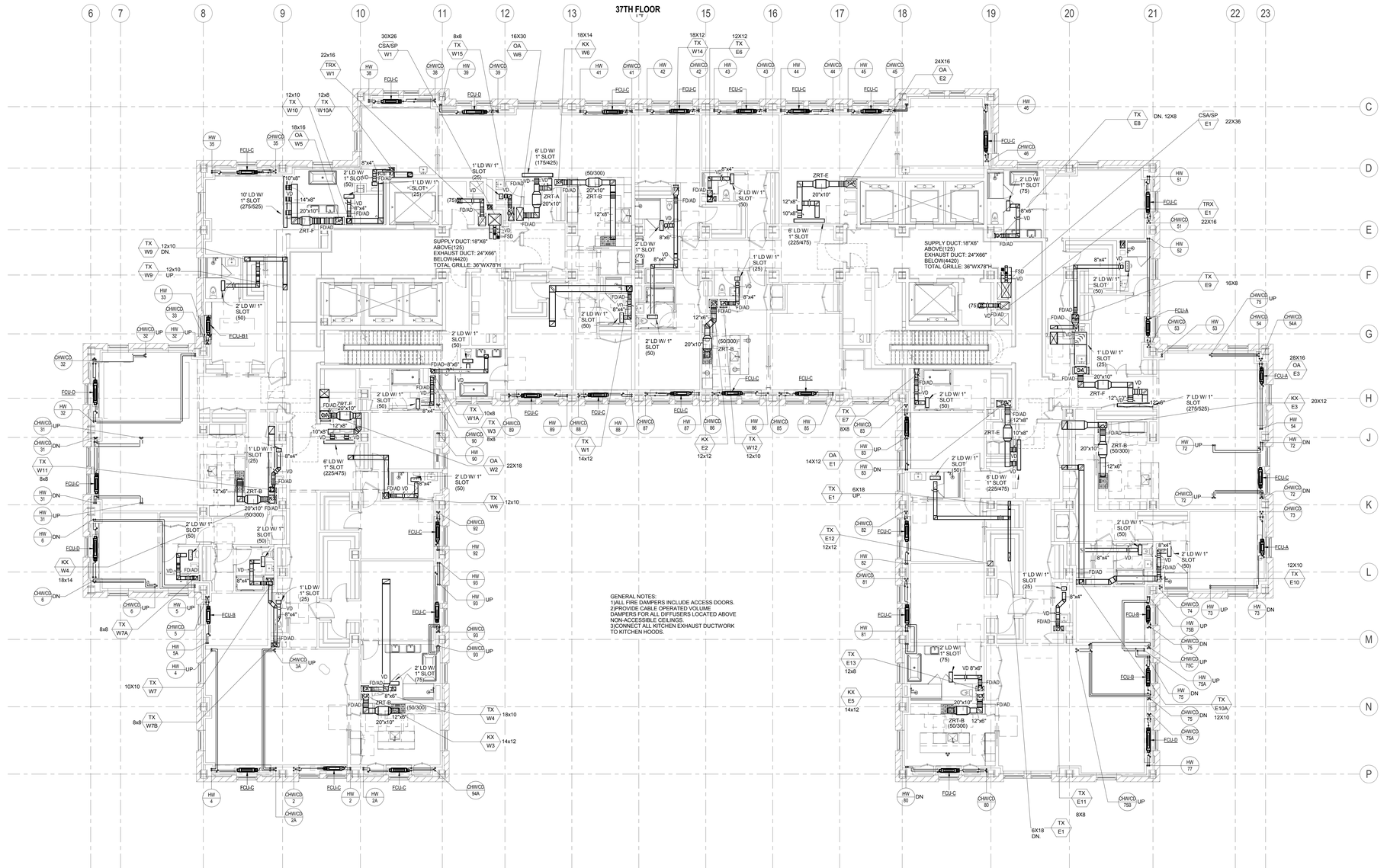

GENERAL NOTES:
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2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
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1 HVAC - LEVEL 37
1/8" = 1'-0"

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MECHANICAL 37TH FLOOR PLAN

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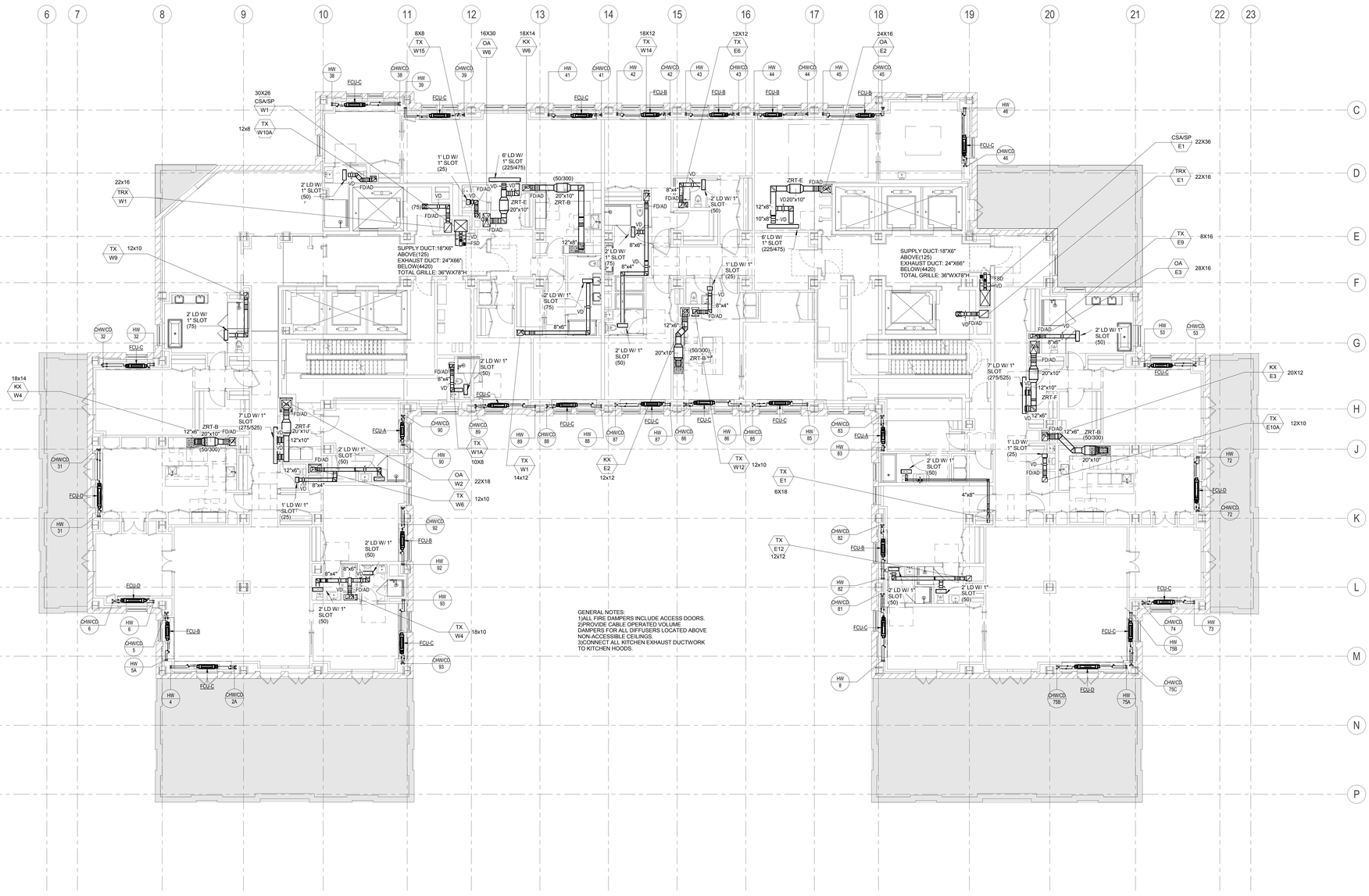

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2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.

1 HVAC - LEVEL 38
1/8" = 1'-0"

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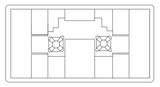

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MECHANICAL 38TH FLOOR PLAN

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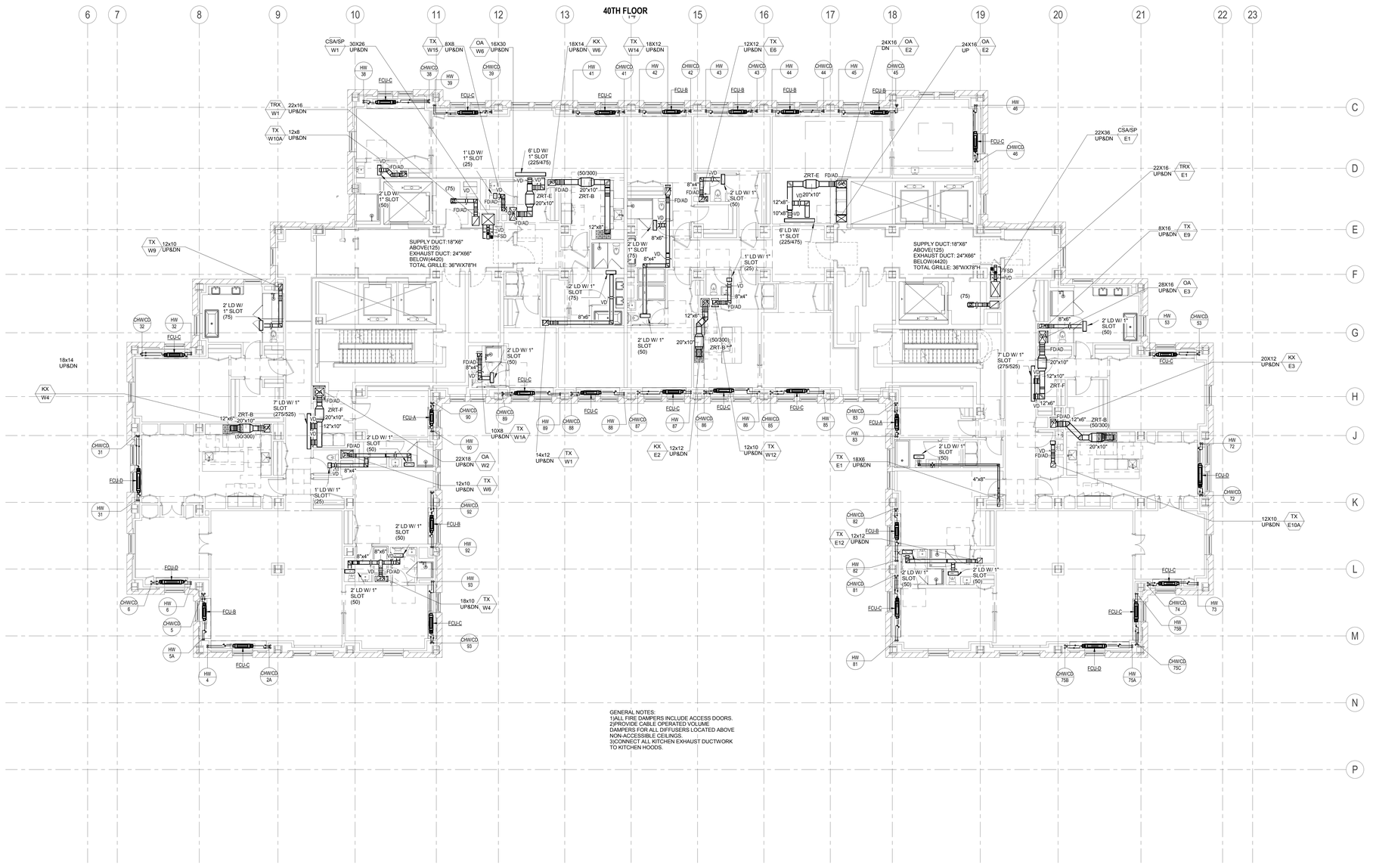

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2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
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1 HVAC - LEVEL 40
1/8" = 1'-0"

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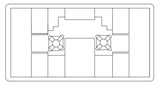

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MECHANICAL 39-40TH FLOOR PLAN

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E5095977507 Scan Code

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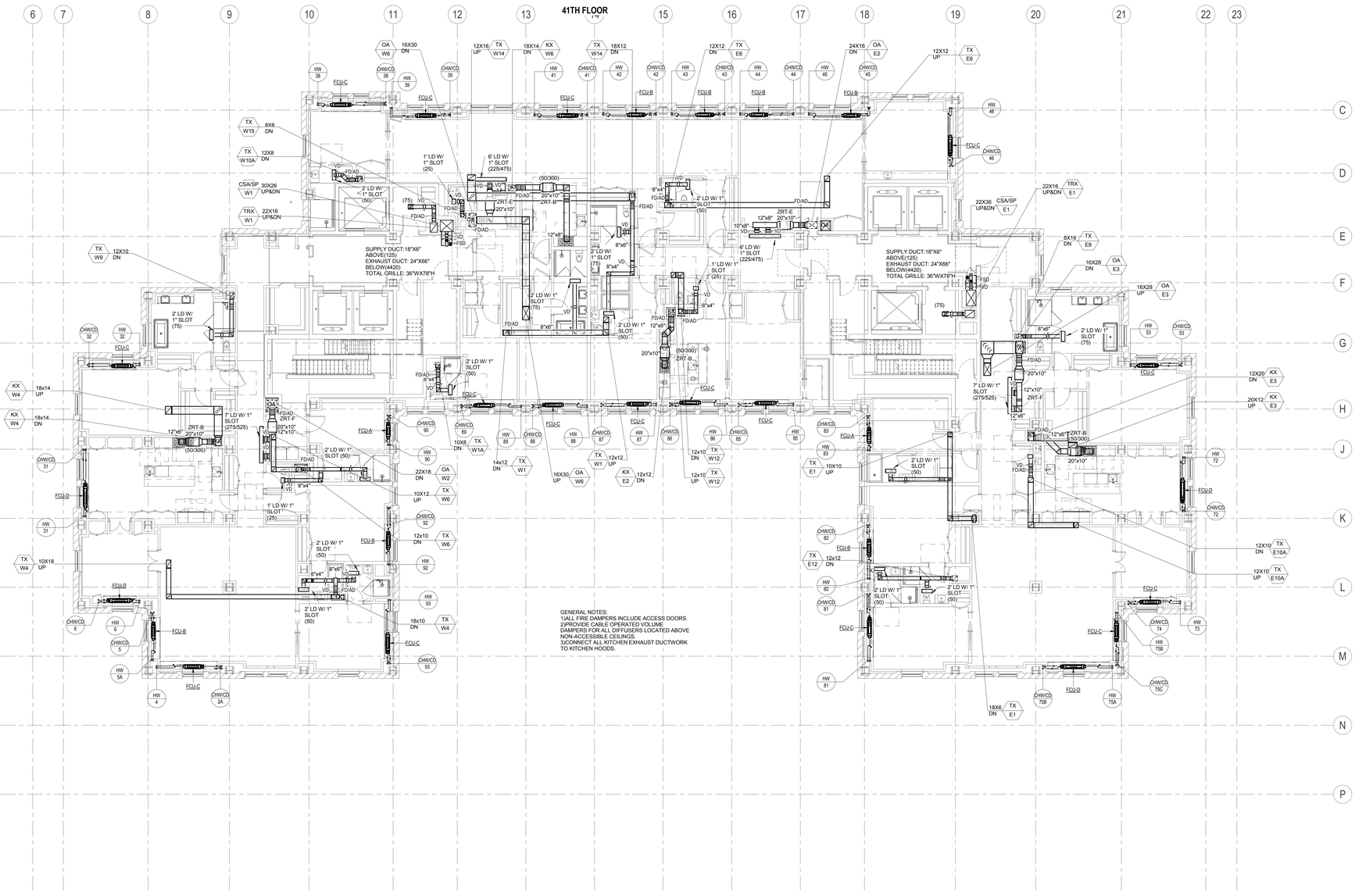

1 HVAC - LEVEL 41
1/8" = 1'-0"

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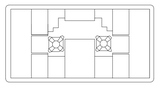

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MECHANICAL 41ST FLOOR PLAN

B-SCAN - DRAWING NUMBER

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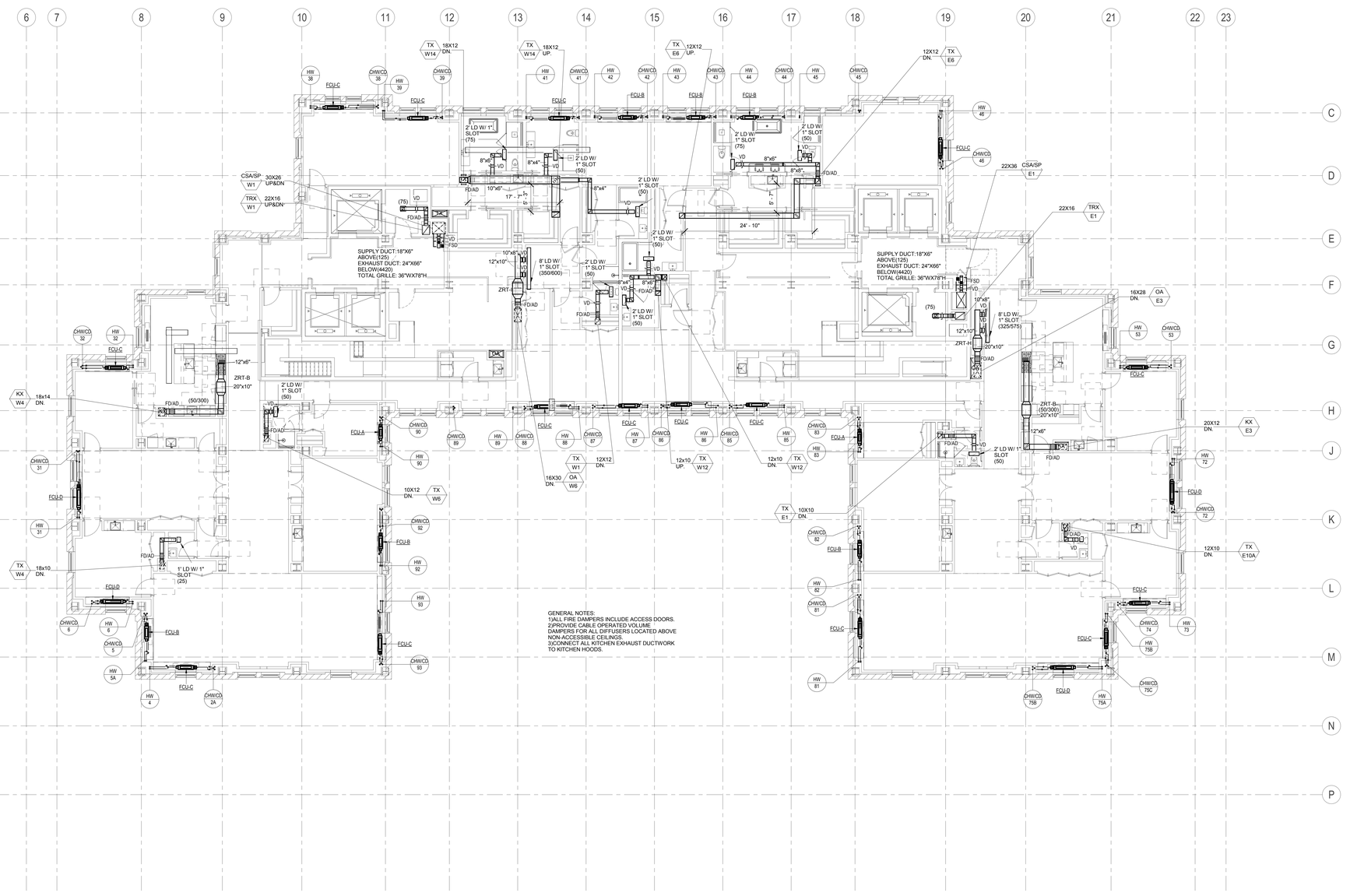
42nd FLOOR



GENERAL NOTES:
1)ALL FIRE DAMPERS INCLUDE ACCESS DOORS.
2)PROVIDE CABLE OPERATED VOLUME DAMPERS FOR ALL DIFFUSERS LOCATED ABOVE NON-ACCESSIBLE CEILINGS.
3)CONNECT ALL KITCHEN EXHAUST DUCTWORK TO KITCHEN HOODS.

1 HVAC - LEVEL 42
1/8" = 1'-0"

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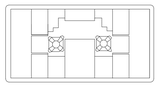

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MECHANICAL 42ND FLOOR PLAN

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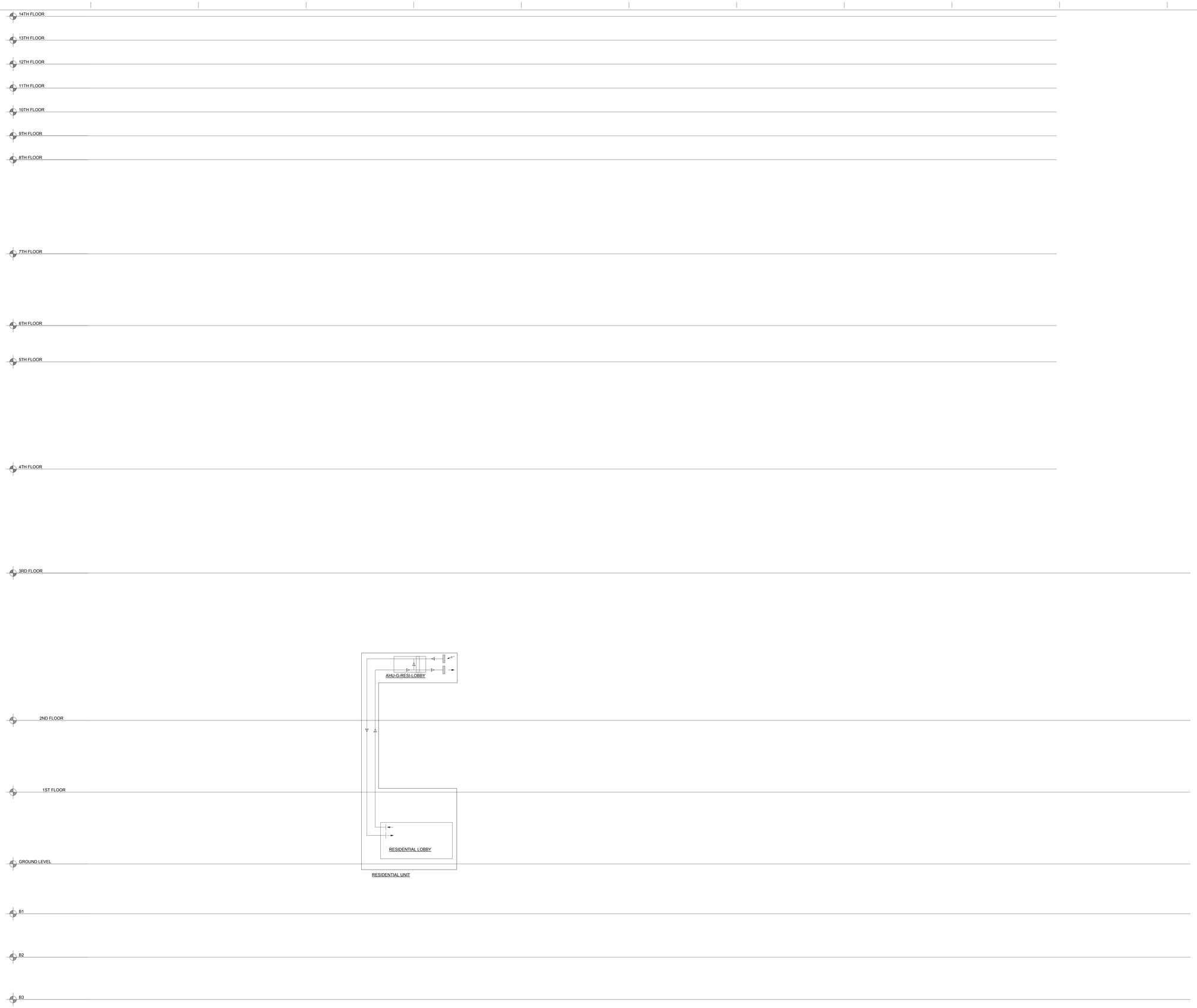

MECHANICAL AIR SIDE MASTER RISER DIAGRAM (FLOORS B3-14TH)

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MECHANICAL MASTER AIR RISER DIAGRAM 1

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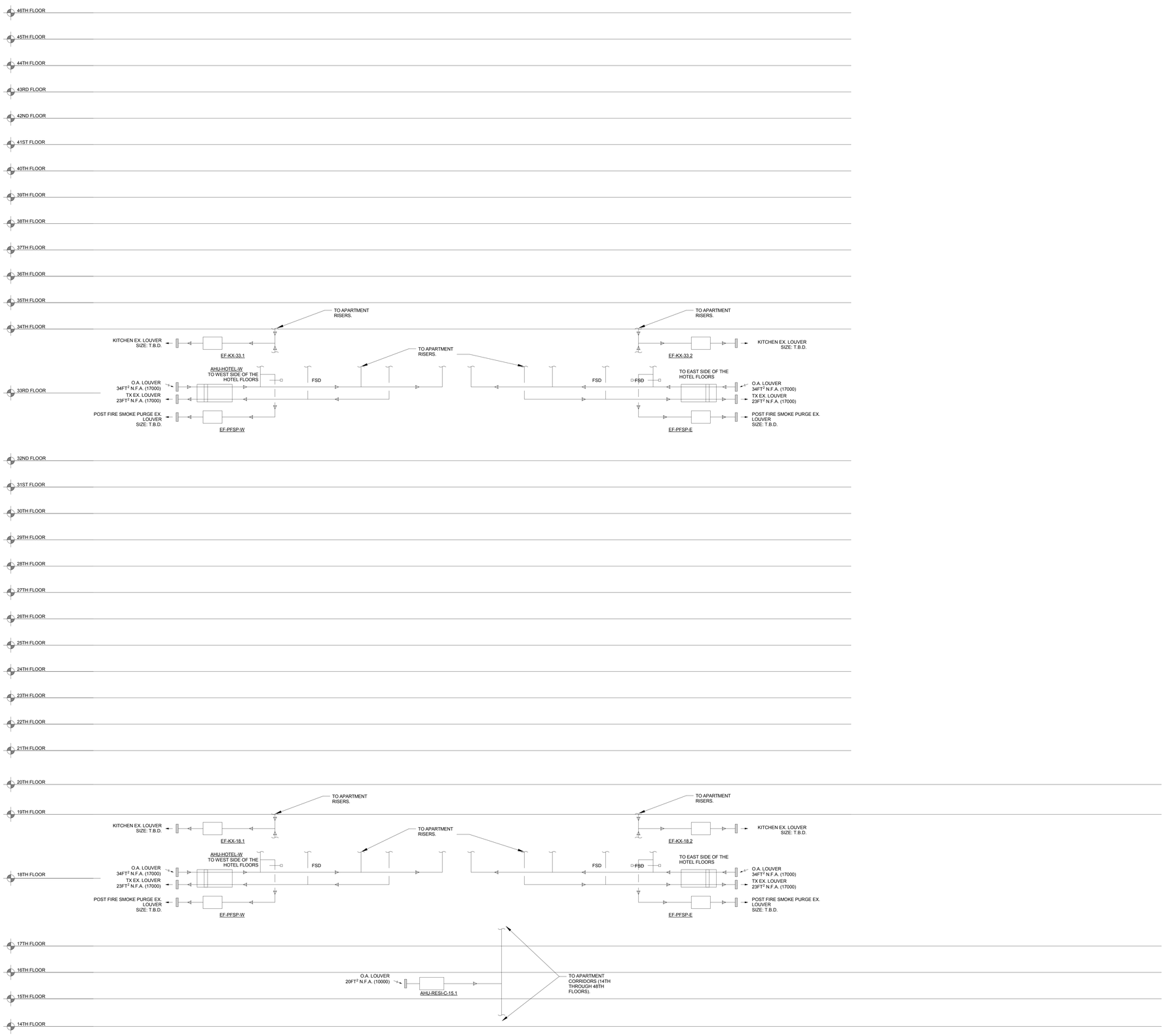
MECHANICAL AIR SIDE MASTER RISER DIAGRAM (FLOORS 14TH-48TH)



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MECHANICAL MASTER AIR RISER DIAGRAM 2

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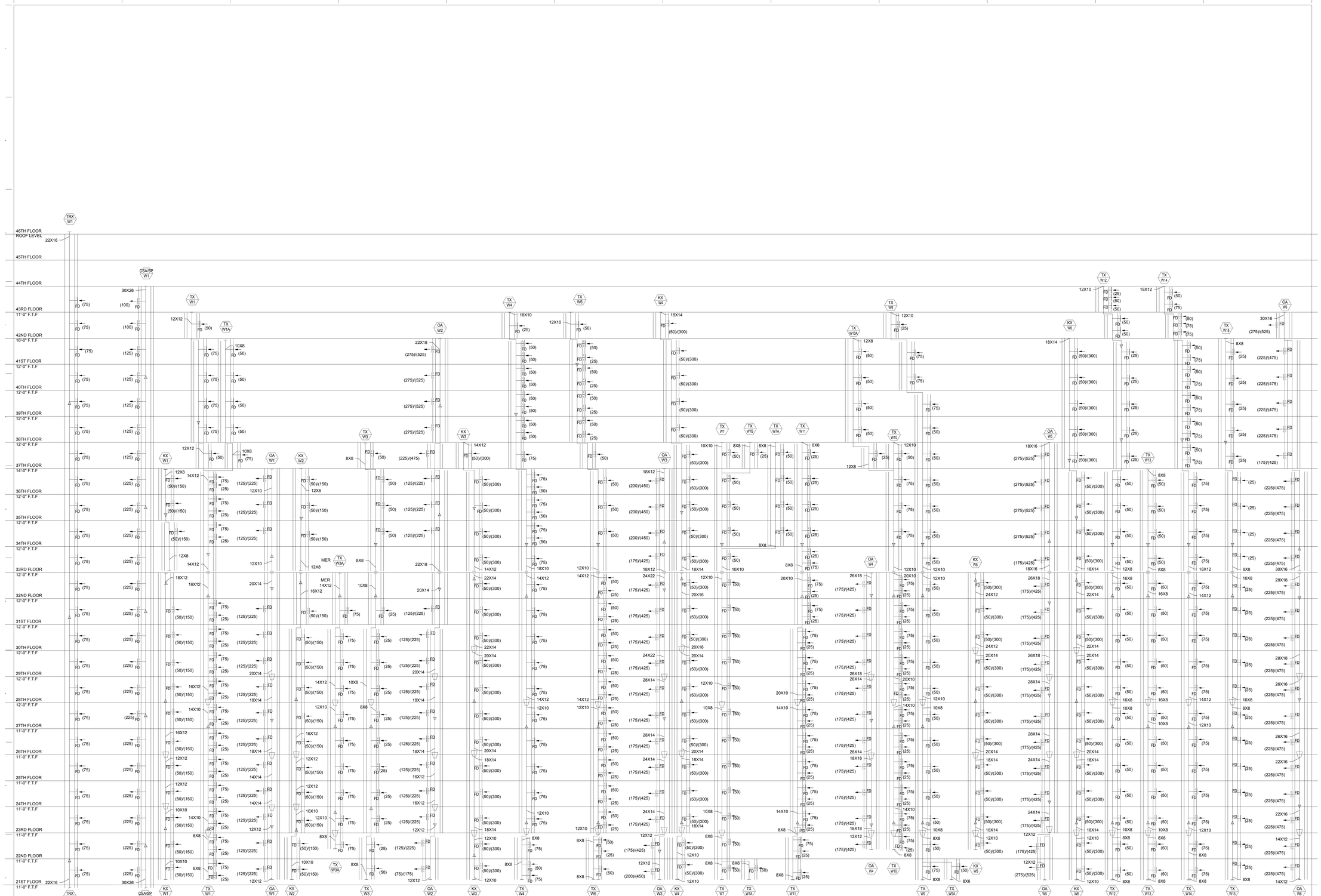

GENERAL NOTES:

1)FOR KX CONNECTIONS TO EF-KX-33-1 & EF-KX-33-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
2)FOR KX CONNECTIONS TO EF-KX-18-1 & EF-KX-18-2 EQUIPMENT SEE 17TH & 18TH FLOORS.
3) FOR TX AND OA CONNECTIONS TO AHU-32-1 & AHU-32-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
4) FOR TX AND OA CONNECTIONS TO AHU-17-1 & AHU-17-2 EQUIPMENT SEE 17TH & 18TH FLOORS.
4) FOR CSA/SP CONNECTIONS TO AHU-18-1 EQUIPMENT SEE 18TH FLOOR.
5) FOR TRX CONNECTIONS TO EF-TRX-E-R1 & EF-TRX-W-R1 SEE ROOF LEVEL.
6) FOR PESP-18-1 CONNECTION, SEE 18TH FLOOR.
6) TYPICAL MIN/MAX CFM FOR A SMALL KITCHEN: MIN=50CFM
MAX=150CFM
7) TYPICAL MIN/MAX FOR A LARGE KITCHEN:
MIN=50CFM
MAX=300CFM

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MECHANICAL AIR SIDE RISER DIAGRAM 3

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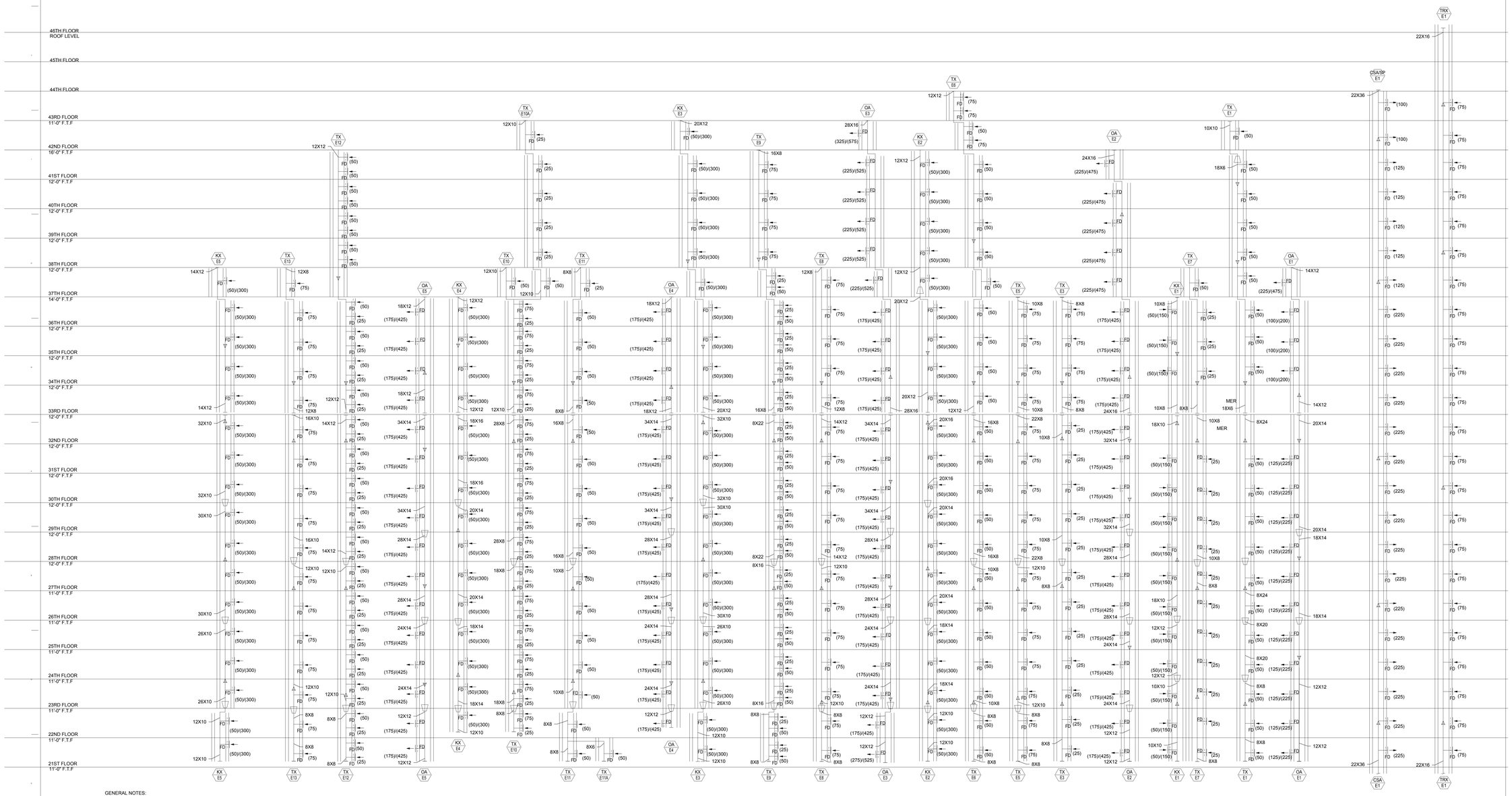

GENERAL NOTES:

1)FOR KX CONNECTIONS TO EF-KX-33-1 & EF-KX-33-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
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MAX=150CFM
7) TYPICAL MIN/MAX FOR A LARGE KITCHEN:
MIN=50CFM
MAX=300CFM

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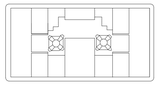

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MECHANICAL AIR SIDE RISER DIAGRAM 4

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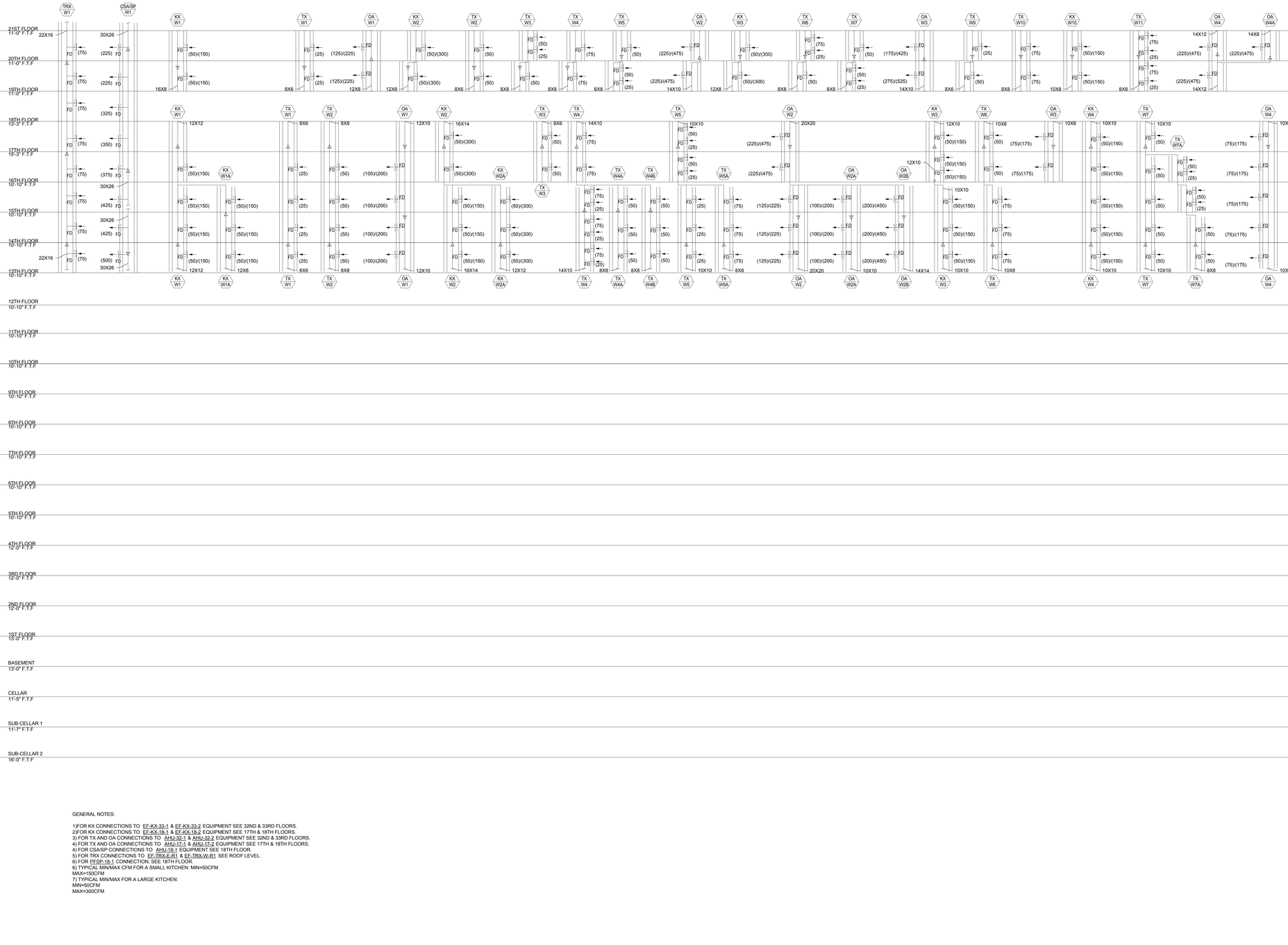

GENERAL NOTES:

1)FOR KX CONNECTIONS TO EF-KX-33-1 & EF-KX-33-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
2)FOR KX CONNECTIONS TO EF-KX-18-1 & EF-KX-18-2 EQUIPMENT SEE 17TH & 18TH FLOORS.
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5) FOR TRX CONNECTIONS TO EF-TRX-E-R1 & EF-TRX-W-R1 SEE ROOF LEVEL.
6) FOR PFSP-18-1 CONNECTION, SEE 18TH FLOOR.
6) TYPICAL MIN/MAX CFM FOR A SMALL KITCHEN: MIN=50CFM
MAX=150CFM
7) TYPICAL MIN/MAX FOR A LARGE KITCHEN:
MIN=50CFM
MAX=300CFM

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MECHANICAL AIR SIDE RISER DIAGRAM 5

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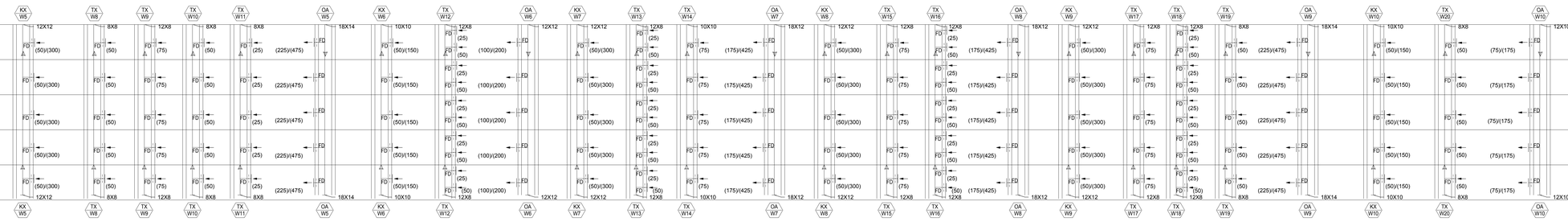

GENERAL NOTES:

1)FOR KX CONNECTIONS TO EF-KX-33-1 & EF-KX-33-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
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7) TYPICAL MIN/MAX FOR A LARGE KITCHEN:
MIN=50CFM
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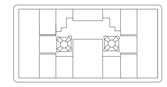

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MECHANICAL AIR SIDE RISER DIAGRAM 6

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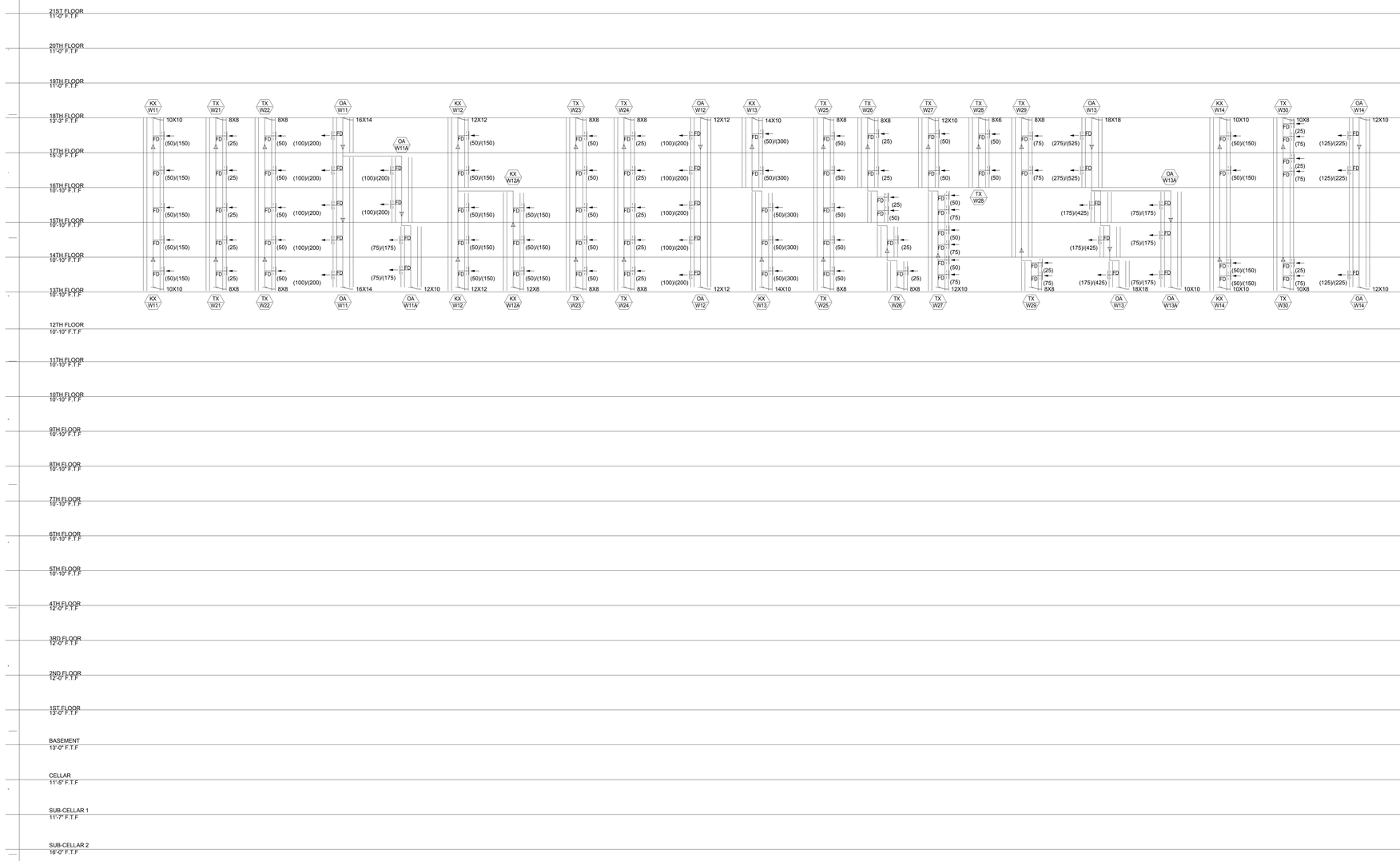

GENERAL NOTES:

1)FOR KX CONNECTIONS TO EF-KX-33-1 & EF-KX-33-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
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6) FOR PESP-18-1 CONNECTION, SEE 18TH FLOOR.
6) TYPICAL MIN/MAX CFM FOR A SMALL KITCHEN: MIN=50CFM
MAX=150CFM
7) TYPICAL MIN/MAX FOR A LARGE KITCHEN:
MIN=50CFM
MAX=300CFM

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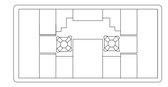

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MECHANICAL AIR SIDE RISER DIAGRAM 7

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21ST FLOOR
11'-0" F.T.F

20TH FLOOR
11'-0" F.T.F

19TH FLOOR
11'-0" F.T.F

18TH FLOOR
13'-3" F.T.F

17TH FLOOR
10'-3" F.T.F

16TH FLOOR
10'-10" F.T.F

15TH FLOOR
10'-10" F.T.F

14TH FLOOR
10'-10" F.T.F

13TH FLOOR
10'-10" F.T.F

12TH FLOOR
10'-10" F.T.F

11TH FLOOR
10'-10" F.T.F

10TH FLOOR
10'-10" F.T.F

9TH FLOOR
10'-10" F.T.F

8TH FLOOR
10'-10" F.T.F

7TH FLOOR
10'-10" F.T.F

6TH FLOOR
10'-10" F.T.F

5TH FLOOR
10'-10" F.T.F

4TH FLOOR
12'-0" F.T.F

3RD FLOOR
12'-0" F.T.F

2ND FLOOR
12'-0" F.T.F

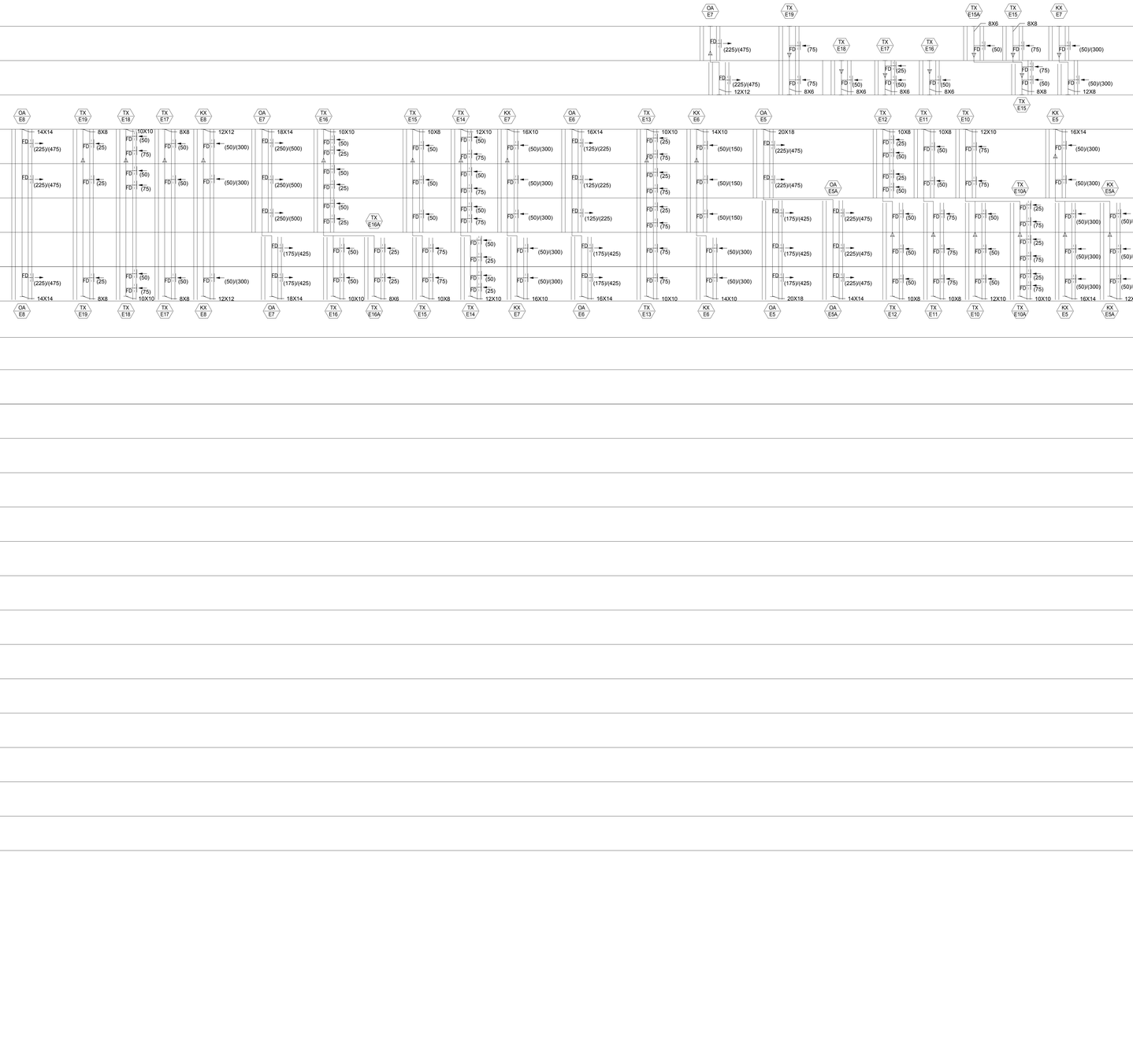
1ST FLOOR
13'-0" F.T.F

BASEMENT
13'-0" F.T.F

CELLAR
11'-5" F.T.F

SUB-CELLAR 1
11'-7" F.T.F

SUB-CELLAR 2
16'-0" F.T.F



GENERAL NOTES:

1)FOR KX CONNECTIONS TO EF-KX-33-1 & EF-KX-33-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
2)FOR KX CONNECTIONS TO EF-KX-18-1 & EF-KX-18-2 EQUIPMENT SEE 17TH & 18TH FLOORS.
3) FOR TX AND OA CONNECTIONS TO AHU-32-1 & AHU-32-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
4) FOR TX AND OA CONNECTIONS TO AHU-17-1 & AHU-17-2 EQUIPMENT SEE 17TH & 18TH FLOORS.
4) FOR CSA/SP CONNECTIONS TO AHU-18-1 EQUIPMENT SEE 18TH FLOOR.
5) FOR TRX CONNECTIONS TO EF-TRX-E-R1 & EF-TRX-W-R1 SEE ROOF LEVEL.
6) FOR PFSP-18-1 CONNECTION, SEE 18TH FLOOR.
6) TYPICAL MIN/MAX CFM FOR A SMALL KITCHEN: MIN=50CFM
MAX=150CFM
7) TYPICAL MIN/MAX FOR A LARGE KITCHEN:
MIN=50CFM
MAX=300CFM

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MECHANICAL AIR SIDE RISER DIAGRAM 8

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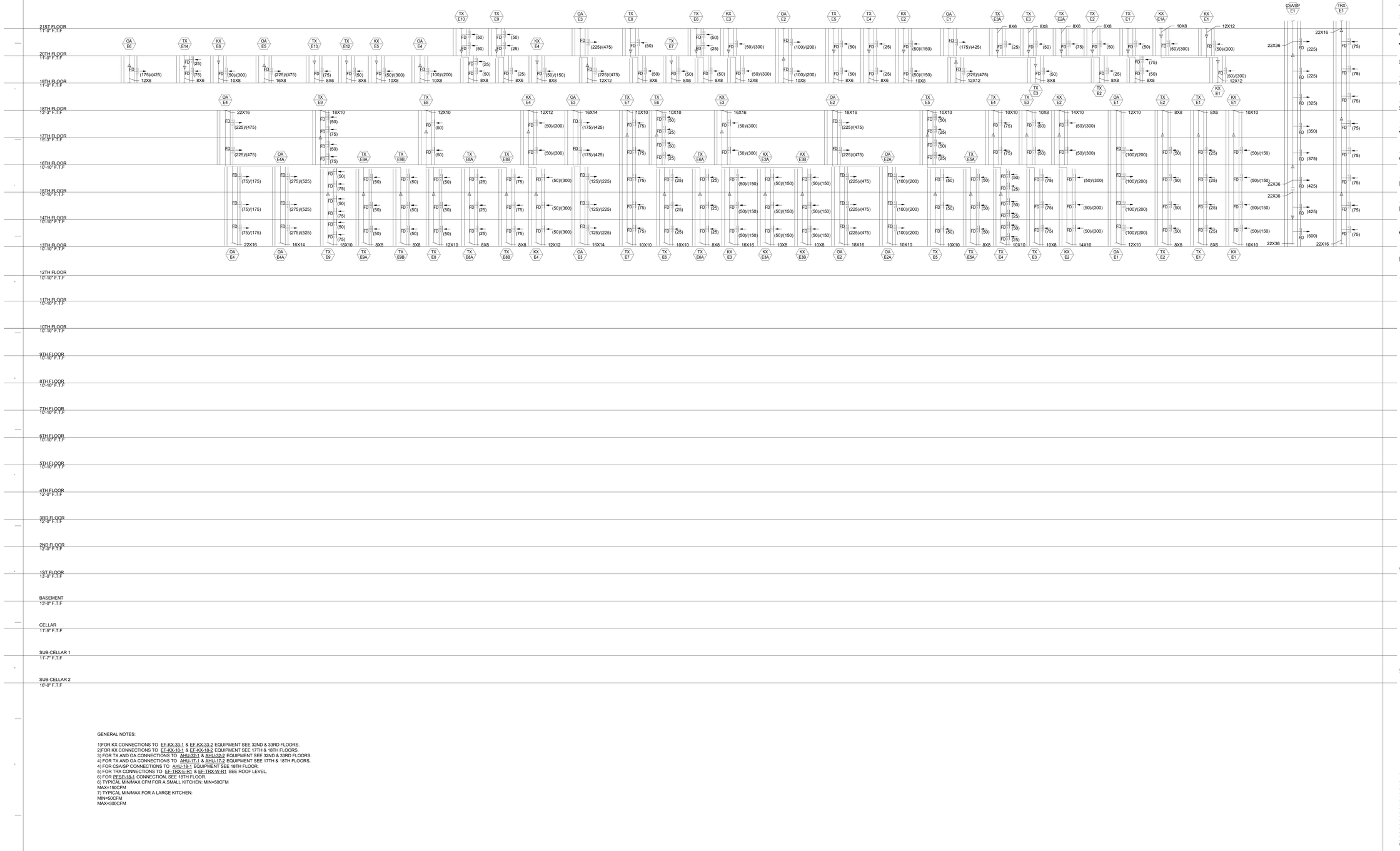

GENERAL NOTES:

1)FOR KX CONNECTIONS TO EF-KX-33-1 & EF-KX-33-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
2)FOR KX CONNECTIONS TO EF-KX-18-1 & EF-KX-18-2 EQUIPMENT SEE 17TH & 18TH FLOORS.
3) FOR TX AND OA CONNECTIONS TO AHU-32-1 & AHU-32-2 EQUIPMENT SEE 32ND & 33RD FLOORS.
4) FOR TX AND OA CONNECTIONS TO AHU-17-1 & AHU-17-2 EQUIPMENT SEE 17TH & 18TH FLOORS.
4) FOR CSA/SP CONNECTIONS TO AHU-18-1 EQUIPMENT SEE 18TH FLOOR.
5) FOR TRX CONNECTIONS TO EF-TRX-E-R1 & EF-TRX-W-R1 SEE ROOF LEVEL.
6) FOR PESP-18-1 CONNECTION, SEE 18TH FLOOR.
6) TYPICAL MIN/MAX CFM FOR A SMALL KITCHEN: MIN=50CFM
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7) TYPICAL MIN/MAX FOR A LARGE KITCHEN:
MIN=50CFM
MAX=300CFM

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MECHANICAL AIR SIDE RISER DIAGRAM 9

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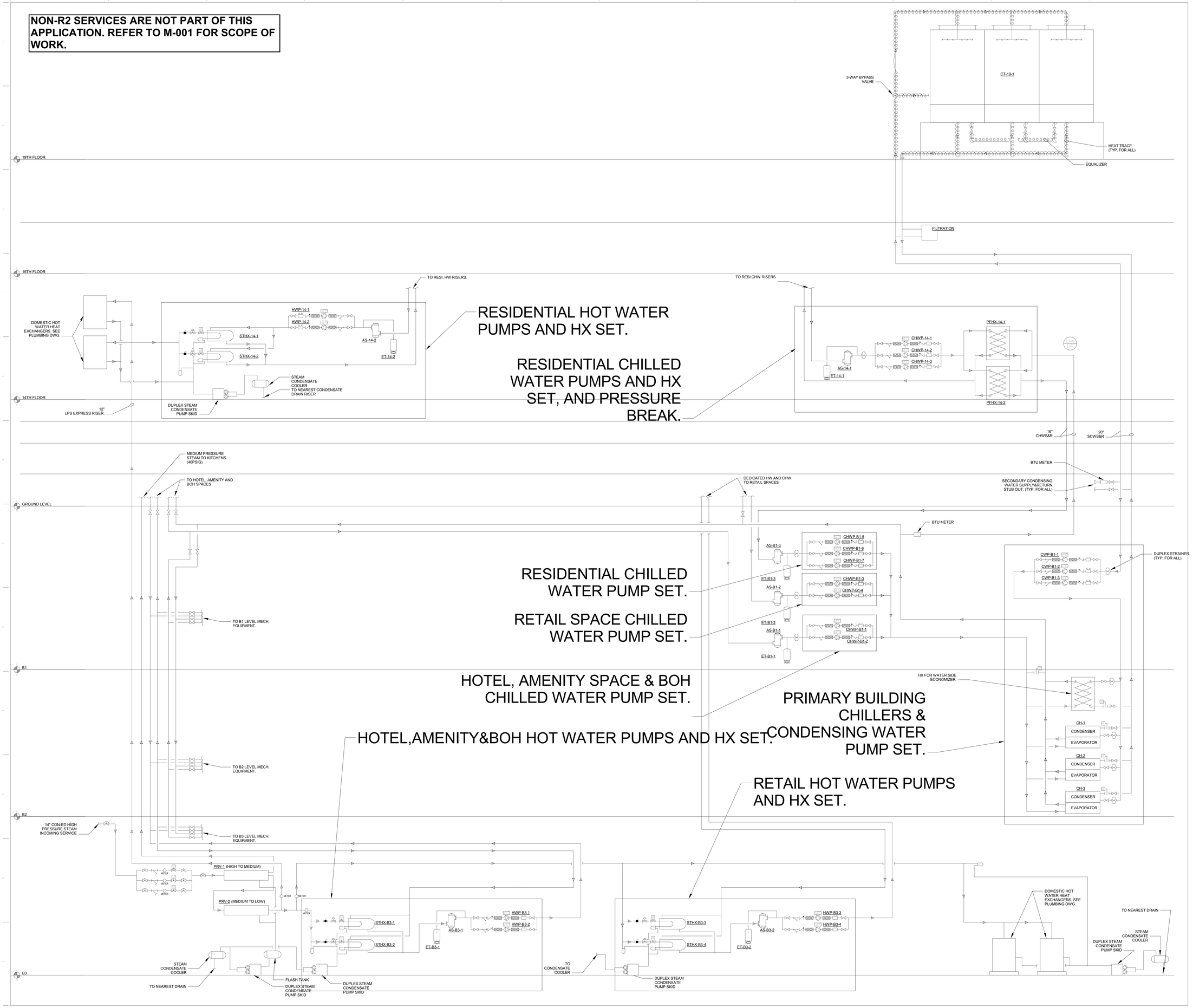

SCHEMATIC DESIGN WATER SIDE RISER DIAGRAM

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MECHANICAL MASTER WATER SIDE DIAGRAM

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DRAWING TITLE

MECHANICAL WATER RISER DIAGRAM 2

DRAWING NUMBER

M-511

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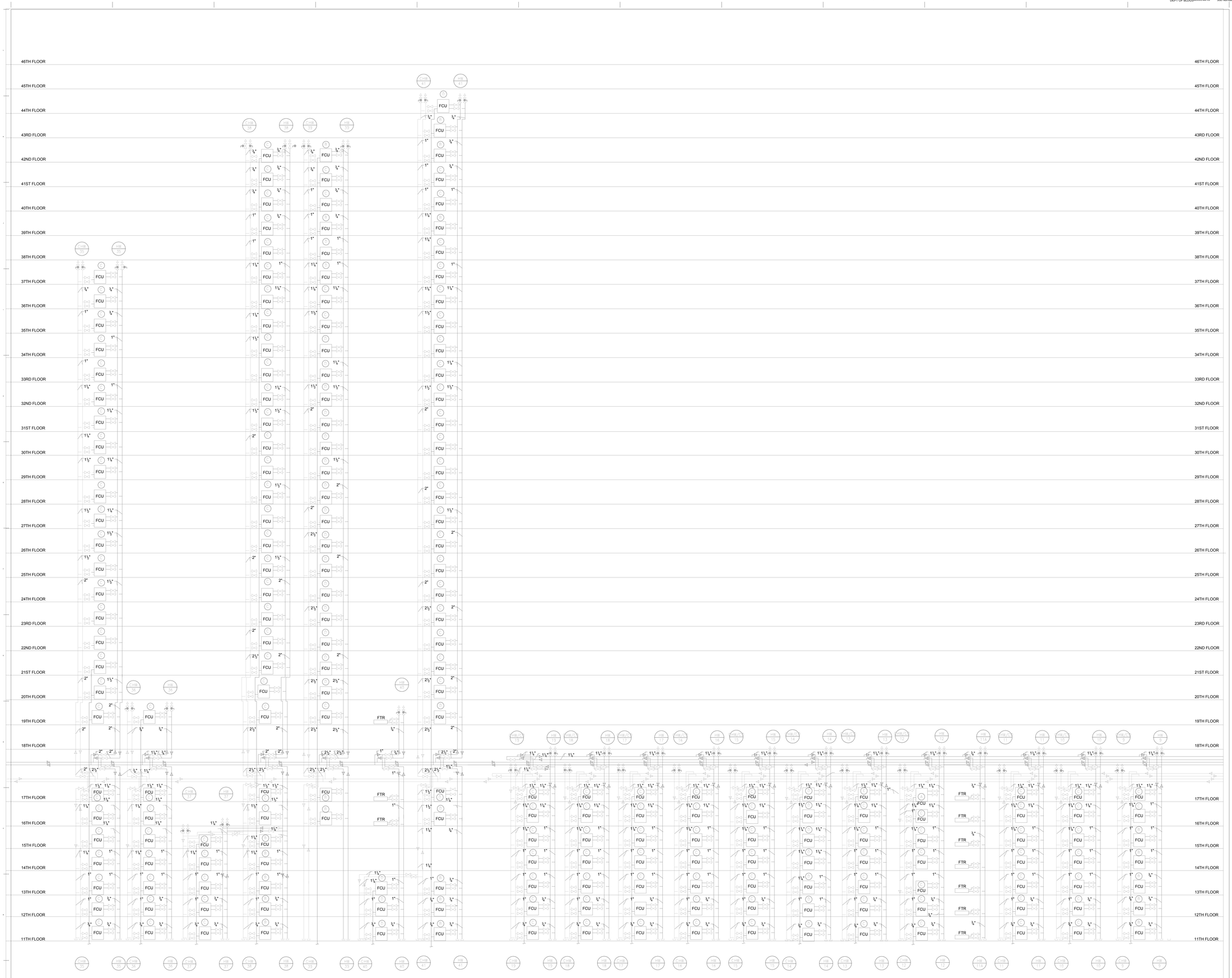

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MECHANICAL WATER RISER DIAGRAM 3

DRAWING NUMBER

M-512

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DEPT OF BLDGS 121512145 Job Number
E350226295S9 Scan Code

46TH FLOOR
45TH FLOOR
44TH FLOOR
43RD FLOOR
42ND FLOOR
41ST FLOOR
40TH FLOOR
39TH FLOOR
38TH FLOOR
37TH FLOOR
36TH FLOOR
35TH FLOOR
34TH FLOOR
33RD FLOOR
32ND FLOOR
31ST FLOOR
30TH FLOOR
29TH FLOOR
28TH FLOOR
27TH FLOOR
26TH FLOOR
25TH FLOOR
24TH FLOOR
23RD FLOOR
22ND FLOOR
21ST FLOOR
20TH FLOOR
19TH FLOOR
18TH FLOOR
17TH FLOOR
16TH FLOOR
15TH FLOOR
14TH FLOOR
13TH FLOOR
12TH FLOOR
11TH FLOOR

FROM CHW/CD-2A RISERS - SEE M-511

TO CHW/CD-2A RISERS - SEE M-512

TO FCU ASSOCIATED WITH CHW/CD-9S RISERS - SEE M-512

TO HW-2A RISER - SEE M-511

CONNECT TO 93 AT 15TH FLOOR

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MECHANICAL WATER RISER DIAGRAM 4

DRAWING NUMBER

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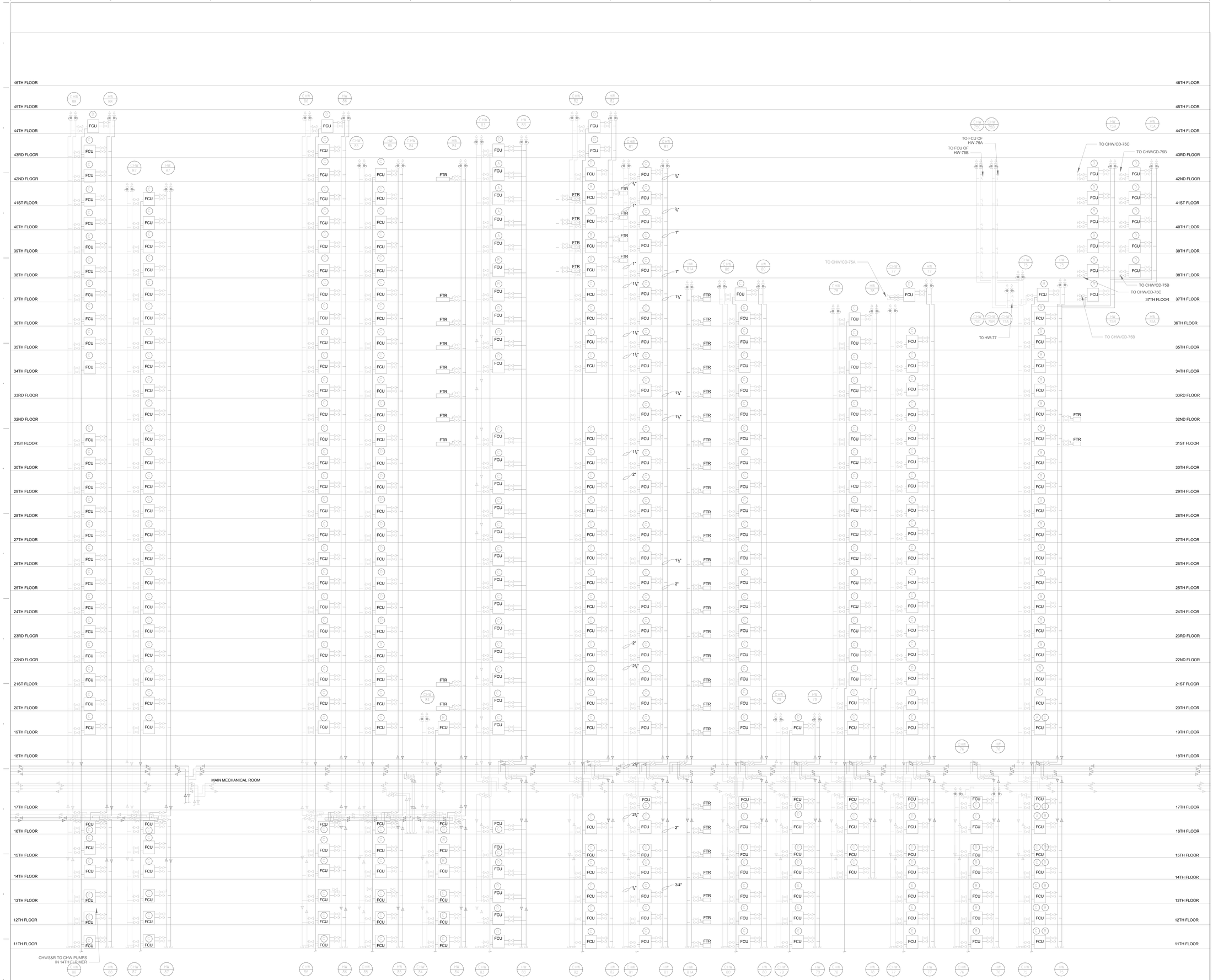
E301729939SI Scan Code



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MECHANICAL WATER RISER DIAGRAM 5

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M-514

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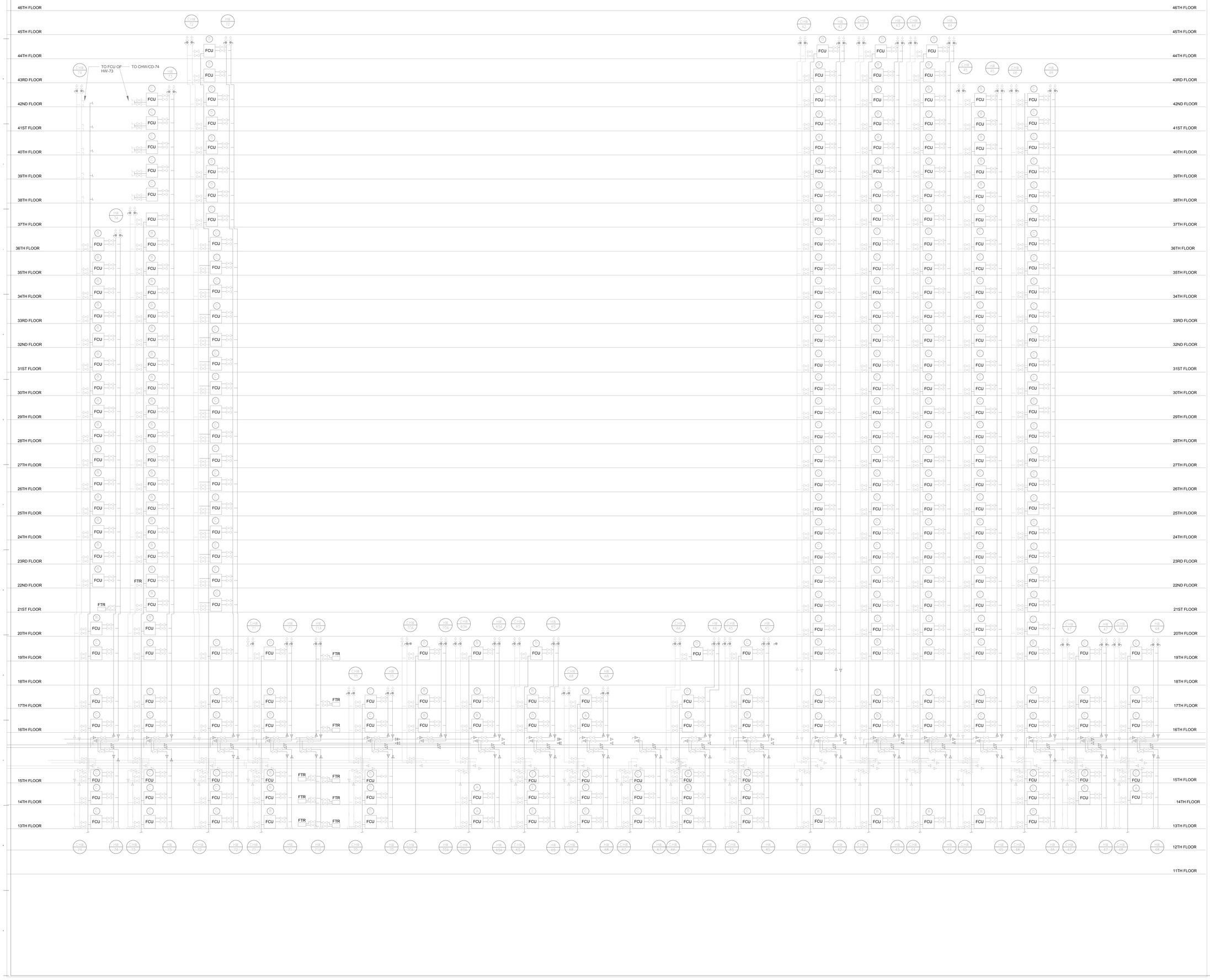

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MECHANICAL WATER RISER DIAGRAM 6

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MECHANICAL WATER RISER DIAGRAM 7

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M-516

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ES467786736 Scan Code

MS-008 AIR HANDLING UNIT SCHEDULE

DESIGNATION	LOCATION	SERVICE	SUPPLY FAN DATA CFM	SUPPLY FAN TOTAL SP	SUPPLY FAN RPM	SUPPLY FAN OA CFM	SUPPLY FAN BHP/HP	SUPPLY FAN DRIVE	SUPPLY FAN TYPE	COOLING CAPACITY EAT	COOLING CAPACITY LAT	COOLING CAPACITY TOTAL MBH	COOLING CAPACITY SENSIBLE MBH	CHILLED WATER GPM	CHILLED WATER EWT	CHILLED WATER LWT	CHILLED WATER P.D.	NO. OF ROWS	FACE VEL (FPM)	HEATING AIR EAT	HEATING AIR LAT	HEATING AIR SENSIBLE CAPACITY MBH	HEATING AIR A.P.D.	HEATING WATER GPM	HEATING WATER EWT	HEATING WATER LWT	HEATING WATER FLUID P.D.	PREFILTER TYPE	PREFILTER EFF%	PREFILTER INITIAL P.D.	PREFILTER FINAL P.D.	FINAL FILTER TYPE	FINAL FILTER EFF%	FINAL FILTER INITIAL P.D.	FINAL FILTER FINAL P.D.	WARMER SECTION(SUMMER) CFM	WARMER SECTION(SUMMER) ENT. AIR (F)	WARMER SECTION(SUMMER) LVG. AIR (F)	COLDER SECTION(SUMMER) CFM	COLDER SECTION(SUMMER) ENT. AIR (F)	COLDER SECTION(SUMMER) LVG. AIR (F)	WARMER SECTION(WINTER) CFM	WARMER SECTION(WINTER) ENT. AIR (F)	WARMER SECTION(WINTER) LVG. AIR (F)	COLDER SECTION(WINTER) CFM	COLDER SECTION(WINTER) ENT. AIR (F)	COLDER SECTION(WINTER) LVG. AIR (F)	TX EXHAUST FAN CFM	TX EXHAUST FAN TOTAL SP	TX EXHAUST FAN RPM	TX EXHAUST FAN BHP/HP	TX EXHAUST FAN DRIVE	TX EXHAUST FAN TYPE	VIBRATION TYPE	VIBRATION DEFLECTION	DIMENSIONS (LXWXH)	WEIGHT (LBS)	ELECTRICAL V/□/Hz	STARTER TYPE	STARTER SW	MANUFACTURER	MODEL	REMARKS
AHU-17-1	17TH FLOOR WEST	FLOORS 13-20 WEST	37500	4.0	2349	37500	58.8	-	-	85.9	53.5	2115.6	1342.5	383.2	44	55	8.22	8	469.73	36.7	89.6	2150	0.1	220.9	180	160	6.2	-	-	-	-	-	-	-	-	-	92	74	-	-	-	-	-	-	-	-	-	15000	2	1985	11.5	-	-	SEE SPEC.	SEE SPEC.	370x134x191	26328	460/3/60	VFD	-	GIL-BAR VENTROL	-	-
AHU-17-2	17TH FLOOR EAST	FLOORS 13-20 EAST	37500	3.5	2349	37500	58.8	-	-	85.9	53.5	2115.6	1342.5	383.2	44	55	8.22	8	469.73	36.7	89.6	2150	0.1	220.9	180	160	6.2	-	-	-	-	-	-	-	-	-	92	74	-	-	-	-	-	-	-	-	-	15000	2	1985	11.5	-	-	SEE SPEC.	SEE SPEC.	370x134x191	26328	460/3/60	VFD	-	GIL-BAR VENTROL	-	-
AHU-18-1	18TH FLOOR	RESI.CORR. OA	15800	4.5	1500	15800	50	-	-	-	-	1137.6	-	-	44	55	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	92	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	SEE SPEC.	SEE SPEC.	-	-	460/3/60	VFD	-	GIL-BAR VENTROL	-	-
AHU-32-1	32ND FLOOR WEST	FLOORS 21-43	44000	3.75	2950	44000	73.53	-	-	86.3	54.2	2425.8	1556.6	439.4	44	55	10.3	6	482.4	35	88.8	2564.9	0.1	262.4	180	160	4.75	-	-	-	-	-	-	-	-	-	92	74	-	-	-	-	-	-	-	-	-	16500	2.2	1780	11.18	-	-	SEE SPEC.	SEE SPEC.	365X135X219	27607	460/3/60	VFD	-	GIL-BAR VENTROL	-	-
AHU-32-2	32ND FLOOR EAST	FLOORS 21-43	44000	2.5	2950	44000	73.53	-	-	86.3	54.2	2425.8	1556.6	439.4	44	55	10.3	6	482.4	35	88.8	2564.9	0.1	262.4	180	160	4.75	-	-	-	-	-	-	-	-	-	92	74	-	-	-	-	-	-	-	-	-	16500	2	1780	11.18	-	-	SEE SPEC.	SEE SPEC.	365X135X219	27607	460/3/60	VFD	-	GIL-BAR VENTROL	-	-

MS-009 FAN COIL UNIT SCHEDULE

DESIGNATION	LOCATION	SERVICE	TYPE	FAN DATA CFM	FAN DATA EXT.SP (IN W.G.)	FAN DATA SPEED	DRIVE TYPE	COOLING AIR SIDE EDB (°F)	COOLING AIR SIDE EWB (°F)	COOLING CAPACITY (BTU/HR) TOTAL	COOLING CAPACITY (BTU/HR) SENSIBLE	COOLING WATER SIDE GPM	COOLING WATER SIDE EWT (°F)	COOLING WATER SIDE LWT (°F)	COOLING WATER SIDE MAX P.D. (FT)	COOLING # OF ROWS	HEATING AIR EAT (°F)	HEATING AIR LAT (°F)	HEATING CAPACITY (BTU/HR) TOTAL	HEATING WATER GPM	HEATING WATER EWT (°F)	HEATING WATER LWT (°F)	HEATING WATER MAX P.D. (FT)	HEATING # OF ROWS	DIMENSIONS (LXWXH)	OPERATING WEIGHT (LBS)	ELECTRICAL DATA V/□/Hz	ELECTRICAL DATA MCA	STARTER TYPE	STARTER SWITCHES	VIBRATION DATA TYPE	VIBRATION DATA DEFLECTION	MANUFACTURER	MODEL NO.	REMARKS
FCU-A	SEE PLANS	CONDO	CONSOLE	178	0.05	MEDIUM	PSC	78	65	5542	4287	1.1	45	55	4.3	4	70	109.2	7534	0.8	180	160	0.4	1	35 3/4 X 9 1/4 X 25	-	208/1/60	-	-	-	SEE SPEC.	SEE SPEC.	GIL-BAR/IEC	FHY02	-
FCU-B	SEE PLANS	CONDO	CONSOLE	209	0.05	MEDIUM	PSC	78	65	6822	5171	1.4	45	55	6.7	4	70	110.9	9243	0.9	180	160	0.7	1	39 3/4 X 9 1/4 X 25	-	208/1/60	-	-	-	SEE SPEC.	SEE SPEC.	GIL-BAR/IEC	FHY03	-
FCU-C	SEE PLANS	CONDO	CONSOLE	311	0.05	MEDIUM	PSC	78	65	10216	7700	2	45	55	14.7	4	70	109.9	13389	1.4	180	160	1.4	1	45 3/4 X 9 1/4 X 25	-	208/1/60	-	-	-	SEE SPEC.	SEE SPEC.	GIL-BAR/IEC	FHY04	-
FCU-D	SEE PLANS	CONDO	CONSOLE	503	0.05	MEDIUM	PSC	78	65	15294	11895	3	45	55	5.7	4	70	108.4	20887	2.1	180	160	3.5	1	55 3/4 X 9 1/4 X 25	-	208/1/60	-	-	-	SEE SPEC.	SEE SPEC.	GIL-BAR/IEC	FHY06	-
FCU-E	SEE PLANS	CONDO	CONSOLE	530	0.05	MEDIUM	PSC	78	65	17106	12994	3.4	45	55	8.3	4	70	110.7	23272	2.4	180	160	4.4	1	57 3/4 X 9 1/4 X 25	-	208/1/60	-	-	-	SEE SPEC.	SEE SPEC.	GIL-BAR/IEC	FHY08	-

MS-020 FAN SCHEDULE

DESIGNATION	LOCATION	SERVICE	CFM	FAN TYPE	TOTAL STATIC PRESSURE (IN. W.G.)	FAN DATA WHEEL DIA. (IN)	FAN DATA FAN TYPE	FAN DATA DRIVE TYPE	FAN DATA OUTLET VELOCITY (FPM)	FAN DATA MOTOR HP	FAN DATA BHP	FAN DATA RPM	STARTER	SWITCHES	VIBRATION DATA TYPE	VIBRATION DATA DEFLECTION	ELECTRICAL V/□/Hz	EMERGENCY POWER	DIMENSIONS (LXWXH)	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
EF-KX-18-1	18TH FLOOR WEST	FLOORS 13-20 WEST	25600	VANE AXIAL INLINE	2.6	-	AXIAL	DIRECT	3587	30	21.8	1770	VFD	-	SEE SPEC.	SEE SPEC.	460/3/60	NO	-	-	GREENHECK	AX-90-400-0626-A300	-
EF-KX-18-2	18TH FLOOR EAST	FLOORS 13-20 EAST	25600	VANE AXIAL INLINE	2	-	AXIAL	DIRECT	2390	25	15.91	1170	VFD	-	SEE SPEC.	SEE SPEC.	460/3/60	NO	-	-	GREENHECK	AX-113-533-0822-B250	-
EF-KX-33-1	33RD FLOOR WEST	FLOORS 21-43 WEST	30000	VANE AXIAL INLINE	2.5	-	AXIAL	DIRECT	2798	30	24.36	1170	VFD	-	SEE SPEC.	SEE SPEC.	460/3/60	NO	-	-	GREENHECK	AX-113-533-1225-B300	-
EF-KX-33-2	33RD FLOOR EAST	FLOORS 21-43 EAST	30000	VANE AXIAL INLINE	2	-	AXIAL	DIRECT	2778	25	19.43	1170	VFD	-	SEE SPEC.	SEE SPEC.	460/3/60	NO	-	-	GREENHECK	AX-113-533-0826-B250	-
EF-TRX-E-R1	EAST ROOF	RESI. TRASH RM.	2625	CENTRI. UTILITY	2	-	UTILITY	-	1672	2	1.48	1616	-	-	SEE SPEC.	SEE SPEC.	230/1/60	NO	37X33X46	236	GREENHECK	USF-316-10-BI-20	-
EF-TRX-W-R1	WEST ROOF	RESI. TRASH RM.	2625	CENTRI. UTILITY	2	-	UTILITY	-	1672	2	1.48	1616	-	-	SEE SPEC.	SEE SPEC.	230/1/60	NO	37X33X46	236	GREENHECK	USF-316-10-BI-20	-
PFSP-18-1	18TH FLOOR	RESI.POST FIRE SMOKE PURGE	8000	VANE AXIAL INLINE	2.4	-	AXIAL	DIRECT	3224	7.5	5.93	3500	VFD	-	SEE SPEC.	SEE SPEC.	460/3/60	YES	-	-	GREENHECK	AX-54-190-0416-M75	-

M-153 FIN TUBE RADIATION SCHEDULE

DESIGNATION	LOCATION	SERVICE	FIN DATA TYPE	FIN DATA HEIGHT (INCH)	FIN DATA FIN/FT	FIN DATA FIN THICKNESS	PIPE DATA TYPE	PIPE DATA SIZE	ROWS HIGH	BTUH PER FT	EDR/LIN. FT.	HOT WATER EWT	HOT WATER LWT	HOT WATER GPM/LF	STEAM LB/HR	STEAM PSIG	PIPE DATA TYPE	PIPE DATA SIZE	LENGTH	MOUNTING HEIGHT	ENCLOSURE DIMENSIONS (LXWXH)	MANUFACTURER	MODEL NO. ELEMENT	MODEL NO. ENCLOSURE	REMARKS
FTR	EXTERIOR BATHROOMS	EXTERIOR BATROOMS	FLAT PANEL RADIANT HEAT WALL MOUNTED	8-5/8"	-	1-5/8"	-	-	3	433	-	180	160	0.0433	-	-	-	-	-	-	8-5/8"HX2"W X VARIES LENGTH	RUNTAL RADIATORS	R-3	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES:
1. IN ADDITION TO FTR, PROVIDE FLOOR ELECTRIC RADIANT HEAT (HEAT MAT) IN EACH EXTERIOR BATHROOM.

ZONE CONTROL TERMINALS SCHEDULE

STANDARD MFR: ALDES

TAG.	LOCATION	SERVICE	TYPE	MODEL	GRILLE SIZE L x W	EXHAUST BOX DIMENSIONS L x W x H	ACTUATOR DIMENSIONS (ADD TO WIDTH)	NECK (DUCT) SIZE (INCH)	CAR Dimensions	AIRFLOW RANGE CFM (STAGE 1 / STAGE 2)	AIRFLOW RANGE (TOTAL)	BALANCING TOLERANCE	DIFFERENTIAL PRESSURE RANGE (IN. WG.)	Discharge NC MIN/MAX @ 0.4 in wg.	ELECTRICAL (V/PHASE/HZ)	SEQUENCE OF OPERATION	REMARKS
ZRT-A	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-20x10-120-175/250	NA	20" x 10" x 23-5/8"	3-1/8"	20" x 10"	6"/ 8"	175/250	425	+/-10%	(0.2-0.8)	36	120/1		
ZRT-B	TYPICAL GUEST ROOMS	KITCHEN EXHAUST	INLINE	ZRT-PDIL-20x10-120-50/235	NA	20" x 10" x 23-5/8"	3-1/8"	20" x 10"	5"/8"	50/235	285	+/-10%	(0.2-0.8)	36	120/1	INTERLOCK WITH KITCHEN HOOD	Interlock with current sensor
ZRT-C	TYPICAL GUEST ROOMS	KITCHEN EXHAUST	INLINE	ZRT-PDIL-16x8-120-50/105	NA	16" x 8" x 21-5/8"	3-1/8"	16" x 8"	4"/ 6"	50/105	155	+/-10%	(0.2-0.8)	36	120/1	INTERLOCK WITH KITCHEN HOOD	Interlock with current sensor
ZRT-D	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-16x8-120-125/230	NA	16" x 8" x 21-5/8"	3-1/8"	16" x 8"	6"/ 6"	125/105	230	+/-10%	(0.2-0.8)	36	120/1		
ZRT-E	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-20x10-120-235/235	NA	20" x 10" x 23-5/8	3-1/8"	20" x 10"	8"/ 8"	235/235	470	+/-10%	(0.2-0.8)	36	120/1		
ZRT-F	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-20x10-120-295/295	NA	20" x 10" x 23-5/8	3-1/8"	20" x 10"	8"/ 8"	295/295	590	+/-10%	(0.2-0.8)	36	120/1		
ZRT-G	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-16x8-120-105/105	NA	16" x 8" x 21-5/8"	3-1/8"	16" x 8"	6"/6"	105/105	210	+/-10%	(0.2-0.8)	36	120/1		
ZRT-H	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-24x12-120-325/265	NA	24" x12" x 25-5/8"	3-1/8"	24" x 12"	10"/8"	325/265	590	+/-10%	(0.2-0.8)	36	120/1		
ZRT-I	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-24x12-120-355/265	NA	24" x12" x 25-5/8"	3-1/8"	24" x 12"	10"/8"	355/265	620	+/-10%	(0.2-0.8)	36	120/1		
ZRT-J	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-20x10-120-205/265	NA	20" x 10" x 23-5/8	3-1/8"	20" x 10"	8"/8"	205/265	470	+/-10%	(0.2-0.8)	36	120/1		
ZRT-K	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-16x8-120-75/105	NA	16" x 8" x 21-5/8"	3-1/8"	16" x 8"	5"/6"	75/105	180	+/-10%	(0.2-0.8)	36	120/1		
ZRT-L	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-20x10-120-160/265	NA	20" x 10" x 23-5/8	3-1/8"	20" x 10"	6"/8"	160/265	425	+/-10%	(0.2-0.8)	36	120/1		
ZRT-M	TYPICAL GUEST ROOMS	ROOM SUPPLY	INLINE	ZRT-PDIL-20x10-120-265/265	NA	20" x 10" x 23-5/8	3-1/8"	20" x 10"	8"/8"	265/265	530	+/-10%	(0.2-0.8)	36	120/1		

NOTES:
1. ALL DUCTWORK AND ASSOCIATED RISERS CONTAINING CONSTANT AIR REGULATING DEVICES SHALL BE CONSTRUCTED AND SEALED TO MINIMIZE LEAKAGE TO NO GREATER THAN 5%. DUCT LEAKAGE TESTING SHALL BE CONDUCTED DURING PHASE OF CONSTRUCTION WHERE FULL ACCESS TO RISERS ARE
2. ZRT AND CAR ASSEMBLIES SHALL BE INSTALLED AND SEALED TO AVOID LEAKAGE. ZRT HEIGHTS AND LOCATIONS SHALL BE COORDINATED WITH CEILING CONTRACTOR TO ENSURE A FLUSH INSTALLATION WITH SHEETROCK CEILING.
3. ZRT SHALL BE PROVIDED WITH LINE VOLTAGE SPRING RETURN ACTUATOR. UPON POWERING UP VIA LIGHT SWITCH OR OTHER POWER SOURCE THE ACTUATOR SHALL MODULATE THE MINIMUM CAR-II OUT OF THE AIRSTREAM ALLOWING THE MAXIMUM CAR-II TO BALANCE TO MAXIMUN CFM. UPON LOSS
4 ZRT ASSEMBLIES SHALL BE CAPABLE OF POWERING UP TRACKING DEVICES SUCH AS ZRT'S USED ON THE SUPPLY FOR MAKE UP AIR APPLICATIONS.
7 SUBMIT DIFFUSER AND GRILLES NC RATINGS FOR APPROVAL
8 COORDINATE FINISH WITH ARCHITECT

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APPROVED
Under Directive 2 of 1975
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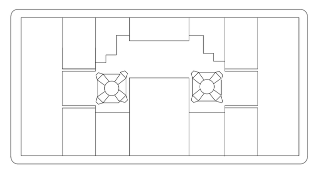

SEAL

STATE OF NEW YORK
PETER J. SPOSATO
062489-1
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

MECHANICAL SCHEDULES 1

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[redacted] NOT IN CONTRACT

PLATE AND FRAME HEAT EXCHANGER SCHEDULE (MS-185)

DESIGNATION	LOCATION	SERVICE	CAPACITY (MBH)	DESIGN PRESSURE (PSI)	NO. OF PLATES/MAX NO. OF PLATES	SURFACE AREA (SQ. FT.)	OVERALL HEAT TRANSFER COEFFICIENT (BTU/FT²h°F)	FOULING FACTOR	PRIMARY SERVICE (COLD SIDE) FLUID/% GLYCOL	FLOW (GPM)	EWT (°F)	LWT (°F)	PRESS. DROP (PSI)	SECONDARY SERVICE (HOT SIDE) FLUID	FLOW (GPM)	EWT (°F)	LWT (°F)	PRESS. DROP (PSI)	DIMENSION (LxWxH)	OPERATION WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
[redacted]																							
PFHX-14-1&2	14TH FLR MECH. RM.	RESI. CHILLED WATER	9046	300	565/663	5454	829.6	-	WATER	1800	42	52	9.99	WATER	1800	44	54	9.93	133"X31"X87"	12100	ALFA LAVAL	AQ8-FD	SEE NOTES
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- -	-	-

NOTES:
1. PROVIDE FRAME WITH FUTURE CAPACITY FOR 30% ADDITIONAL PLATES.

HEAT EXCHANGER SCHEDULE (SHELL & TUBE) (MS-186)

DESIGNATION	LOCATION	SERVICE	CAPACITY (GPM)	HEATING MEDIUM / STEAM FLOW (LBS/HR)	STEAM PRESSURE (PSIG)	HEATED FLUID / HOT WATER FLOW (GPM)	PRESSURE DROP (PSIG)	INLET TEMP. (°F)	OUTLET TEMP. (°F)	FOULING FACTOR	MAX. WORKING PRESSURE (PSIG)	SHELL DIA. (IN)	LENGTH (IN)	NO. OF PASSES	MAX. WORKING PRESSURE (PSIG)	DIMENSION (LxWxH)	WEIGHT	MANUFACTURER	MODEL	REMARKS
[redacted]																				
STHX-14-1,2&3	14TH FLR. MECH RM.	CONDO HW	-	-	15	-	-	160	180	-	-	-	-	-	-	-	-	- -	-	-

PUMP SCHEDULE (MS-184)

DESIGNATION	LOCATION	SERVICE	TYPE	FLUID DATA GPM	TDH (FT)	FLUID TEMP	WORKING PRESSURE	MOTOR DATA RPM	BHP	HP	STARTER TYPE	SWITCHES	ELECTRICAL V/□/Hz	VIBRATION DATA TYPE	DEFLECTION	DIMENSION (LxWxH)	OPERATION WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
[redacted]																				
CHWP-14-1,2&3	14TH FLR.	CHILLED WATER	VERTICAL SPLIT CASE	-	-	47	-	-	-	-	VFD	-	460/3/60	SEE SPEC.	SEE SPEC.	-	-	BELL&GOSSETT	-	-
HWP-14-1,2&3	14TH FLR.	HOT WATER	END SUCTION	-	-	200	-	-	-	-	VFD	-	460/3/60	SEE SPEC.	SEE SPEC.	-	-	BELL&GOSSETT	-	-

AIR SEPARATOR SCHEDULE

DESIGNATION	LOCATION	SERVICE	TYPE	FLOW (GPM)	MAXIMUM VELOCITY (FPS)	MAXIMUM PRESSURE DROP (FT. HEAD)	OPERATING PRESSURE (PSIG)	SIZE (IN. NPT)	MOUNTING	OPERATING WEIGHT (LBS)	DIMENSIONS (L"xW"xH")	MANUFACTURER	MODEL	REMARKS
[redacted]														
AS-14-1	14TH FLR MECH. RM.	CHILLED WATER	INLINE	-	-	-	-	-	HANGING	-	-	BELL & GOSSETT	-	-
AS-14-2	14TH FLR MECH. RM.	HOT WATER	INLINE	-	-	-	-	-	HANGING	-	-	BELL & GOSSETT	-	-

EXPANSION TANK SCHEDULE

DESIGNATION	SERVICE	LOCATION	DIMENSION □xH (IN)	MAX. OPER. PRESS (PSIG)	VOLUME (GAL.)	ACCEPT. FACOTR	PRE CHARGE PRESS (PSIG)	MODEL NO.	WEIGHT (LBS) (WET)
[redacted]									
ET-14-1	CHILLED WATER	14TH FLOOR	-	-	-	-	-	-	-
ET-14-2	HOT WATER	14TH FLOOR	-	-	-	-	-	-	-

LINEAR DIFFUSER SCHEDULE (MS-101)

DESIGNATION	LOCATION	SERVICE	TYPE	CFM/ LIN. FT	NO. OF SLOTS	SLOT SIZE (IN)	ACTIVE LENGTH (FT)	PLENUM SIZES L x W x D (IN)	MANUFACTURER	MODEL	REMARKS
LD	ALL FLOORS	SUPPLY SYSTEMS	FREE FLOW	45	1	1"	SEE DWGS	SEE DWGS	ANEMOSTAT	FF-100	NC=22
LD	ALL FLOORS	SUPPLY SYSTEMS	FREE FLOW	70	1	1.5"	SEE DWGS	SEE DWGS	ANEMOSTAT	FF-150	NC=22
LDR	ALL FLOORS	EXHAUST/ RETURN SYSTEMS	FREE FLOW	45-70	1	1", 1.5"	SEE DWGS	SEE DRAWINGS	ANEMOSTAT	FF-100, FF-150	NC=20

NOTES:

1. FINISHES SHALL BE SPECIFIED BY THE ARCHITECT.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL DIFFUSERS SHALL BE SUITABLE FOR THE TYPE OF CEILING CONSTRUCTION THAT ARE BEING INSTALLED IN. COORDINATE WITH ARCHITECT FOR CORRECT DIFFUSER TRIM.
4. PROVIDE LINEAR DIFFUSERS WITH PLENUM AND CABLE OPERATED OPPOSED BLADE VOLUME DAMPER.
5. LINEAR DIFFUSER WIDTH IS DETERMINED BY THE # OF SLOTS. REFER TO DRAWING FOR # OF SLOTS AND ARCHITECTURAL DRAWING FOR EXACT LENGTH AND MOUNTING LOCATION.

AIR OUTLET SCHEDULE (MS-100)

DESIGNATION	OVERALL SIZE	NECK SIZE	FRAME SIZE	CFM RANGE	MAX NC	MANUFACTURER	MODEL	REMARKS
CD-A	24X24	6"	24X24	0-100	-	TITUS	OMNI	-
CD-B	24X24	8"	24X24	101-175	-	TITUS	OMNI	-
CD-C	24X24	10"	24X24	176-270	-	TITUS	OMNI	-
CD-D	24X24	12"	24X24	271-390	-	TITUS	OMNI	-
CD-E	24X24	14"	24X24	391-530	-	TITUS	OMNI	-
CD-F	24X24	15"	24X24	531-600	-	TITUS	OMNI	

NOTES: 1. FINISHES SHALL BE SPECIFIED BY THE ARCHITECT.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. 3. ALL DIFFUSERS SHALL BE SUITABLE FOR THE TYPE OF CEILING CONSTRUCTION THAT ARE BEING INSTALLED IN. COORDINATE WITH ARCHITECT. 4. INSTALL FOUR (4) WAY DIFFUSER WITH BLANK OFF BAFFLES FOR 2-WAY OR 3-WAY BLOW.
5. ALL DIFFUSERS THAT SERVE AREAS WITHOUT HUNG CEILING SHALL BE SUITABLE FOR DUCTWORK MOUNTING.

AIR OUTLET/INLET SCHEDULE (MS-103)

DESIGNATION	SIZE	CFM RANGE	MAX NC	THROW	MANUFACTURER	MODEL	REMARKS
TR-A	10X6	0-170	12	-	TITUS	300RS	-
TR-B	12X6	171-200	13	-	TITUS	300RS	-
TR-C	18X6	201-300	15	-	TITUS	300RS	-
TR-D	24X6	301-430	16	-	TITUS	300RS	-
TR-E	24X12	431-900	19	-	TITUS	300RS	-
TR-F	36X12	901-1000	15	-	TITUS	300RS	-
CG-A	12X12	0-400	19	-	TITUS	350RL	-
CG-12	24X24	401-1800	18	-	TITUS	350RL	-

UNIT HEATER SCHEDULE (MS-155)

HEATER NO	LOCATION	SERVICE	TYPE	MBH	HEATING DATA HOT WATER EWT (°F)	LWT (°F)	GPM	P.D. (FT.H₂O)	GAS FIRED TYPE OF GAS	MIN PRESS	MBH	ELECTRIC KW	STEPS	UNIT ELECTRICAL DATA V/□/HZ	FLA	MOCP	VIBRATION DATA TYPE	DEFLECTION	DIMENSIONS LXWXH	WEIGHT	MANUFACTURER	MODEL	REMARKS
-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	- -	-	-
-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	- -	-	-
-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	- -	-	-
-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	- -	-	-
-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	- -	-	-

EXPANSION JOINT SCHEDULE

MNF.: FLEXHOSE

DESIGNATION	SERVICE	LOCATION	PIPE SIZE	MODEL	PIPE JOINT	COMPRESSION (IN)	ENTENSION (IN)	DESIGN PRESSURE PSIG
EXPANSION JOINT	HOT WATER & CW	PER PLANS & RISER	3/4" - 3"	FLEXCOMP: HP-STL-MxM: STEEL PIPING; HP-CPR-FSxFS: COPPER PIPING	STEEL: THREADED; COPPER: SWEATED	1.75	.25	200
EXPANSION JOINT	HOT WATER & CW	PER PLANS & RISER	4" - 8"	FLEXPRESS: FPS-FxF150: STEEL PIPING	FLANGED	4"	.75"	150

NOTES:
1. PROVIDE RATED ACCESS DOOR FOR ALL EXPANSION JOINTS LOCATED IN SHAFTS OR CEILINGS.
2. ALL EXPANSION JOINTS SHALL BE READILY ACCESSIBLE FOR REPLACEMENT WITHOUT DAMAGING OR OTHERWISE MODIFYING OTHER PIPES, WALLS, ACCESS DOORS, ETC.
3. PROVIDE FLEXHOSE PIPE GUIDES & ANCHORS PER FLEXHOSE CO. RECOMENDATIONS & PER PIPE GUIDE POSITIONING SCHEDULE.
4. EXPANSION JOINT SIZING BASED ON RISER INSTALLATION AT O.A. TEMPS OF 50° F OR HIGHER & FOLLOWING SLAB POURS BY A MINIMUM OF 30 DAYS.

NYC MINIMUM DUCT AND PLENUM INSULATION THICKNESSESS (MS-321)

ELEMENT	R-VALUE INTERIOR	EXTERIOR	WITHIN BUILDING ENVELOPE	SEALING REQUIREMENTS LOW PRESSURE < OR EQUAL TO 2" WG	MEDIUM PRESSURE > 2" < OR EQUAL TO 3" WG	HIGH PRESSURE > 3" WG SEALING	LEAK TESTING REQUIRED	REMARKS
DUCTWORK	R-6	R-8	R-8	SECTION C403.2.7.1.1	SECTION C403.2.7.1.2	SECTION C403.2.7.1.3	YES	
PLENUMS	R-6	R-8	R-8	SECTION C403.2.7.1.1	SECTION C403.2.7.1.2	SECTION C403.2.7.1.3		

NOTES:
1. INSULATION IS NOT REQUIRED WHERE THE TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15°F
2. CONTINUOUSLY WELDED AND LOCKING TYPE LONGITUDINAL JOINTS AND SEAMS ON DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2" WG.
3. ALL DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED.

NYC MINIMUM PIPE INSULATION THICKNESS SCHEDULE (MS-320)

FLUID OPERATING TEMPERATURE AND RANGE (°F)	INSULATION CONDUCTIVIVTY: CONDUCTIVITY BTU-IN/(H-FT2-°F)	MEAN RATING TEMPERATURE °F	NOMINAL PIPE OR TUBE THICKNESS (INCHES): <1	1 to < 1-1/2	1-1/2 to <4	4 to <8	> OR EQUAL TO 8
>350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0,29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
<40	0.20 - 0.26	75	0.5	1.0	1.0	1.0	1.5

NOTES:
1. FOR PIPING SMALLER THAN 1-1/2" AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, THICKNESS CAN BE REDUCED BY 1" BUT NEVER LESS THAN 1" THICK.
2. DIRECT BURIED HEATING AND HOT WATER PIPING SYSTEMS THICKNESS CAN BE REDUCED BY 1-1/2" BUT NEVER LESS THAN 1"
3. INSULATION THICKNESS FOR OUTDOOR PIPING: INSULATION ON OUTDOOR PIPING SHALL BE TWICE THE THICKNESS LISTED FOR INDOOR PIPE BUT NOT MORE THAN 5".

AC CONDENSATE PIPE SIZING SCHEDULE (MS-400)

(GRAVITY FLOW)

PIPE SIZE	MAXIMUM CONNECTED TONNAGE
3/4"	2
1"	5
1 1/4"	30
1 1/2"	50
2"	170
3"	300
4"	430
5"	700

NOTE: WHERE HORIZONTAL RUNS HAVE A PITCH OF LESS THAN 1" IN 10 FEET, INCREASE SCHEDULED PIPE SIZE BY ONE PIPE SIZE.

PIPE GUIDE POSITIONING SCHEDULE

MNF.: FLEXHOSE

(SCHED 40, STEEL) PIPE SIZE	1st PIPE GUIDE DISTANCE FROM EXPANSION JOINT	2nd PIPE GUIDE DISTANCE FROM EXPANSION JOINT	REMARKS
3/4"	3.0"	10.0"	-ALL PIPE GUIDES SHALL BE GUIDELINE MODEL, MANUFACTURED BY FLEXHOSE CO. -SPACING BASED ON GUIDELINE MODEL PIPE GUIDES MANUFACTURED BY FLEXHOSE CO. AND USED WITH FLEXHOSE CO. EXPASION JOINTS. -FOR DIFFERENT EXPANSION JOINT MANUFACTURER, FOLLOW SPACING REQUIREMENTS OF SELECTED EXPANSION JOINT MANUFACTURER.
1"	4.0"	1'-2"	
1 1/4"	5.0"	1'-5"	
1 1/2"	6.0"	1'-9"	
2"	8.0"	2'-4"	
2 1/2"	10"	2'-11"	
3"	1'-0"	3'-6"	
4"	1'-4"	4'-8"	
5"	1'-8"	5'-10"	
6"	2'-0"	7'-0"	
8"	2'-8"	9'-4"	

DEPT OF BLDGS 121191245 Job Number
ES691074684 Scan Code

WALDORF ASTORIA

301 Park Avenue
New York, NY, 10022

OWNER
ANBANG GROUP 安邦集团

ARCHITECT
SOM
Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER
Silman

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

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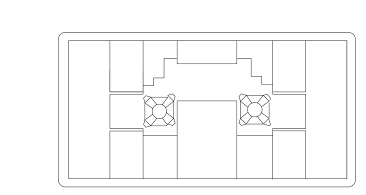
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



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STATE OF NEW YORK
PETER J. SPOSATO
062489-1
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
MECHANICAL SCHEDULES 2

B-SCAN - DRAWING NUMBER
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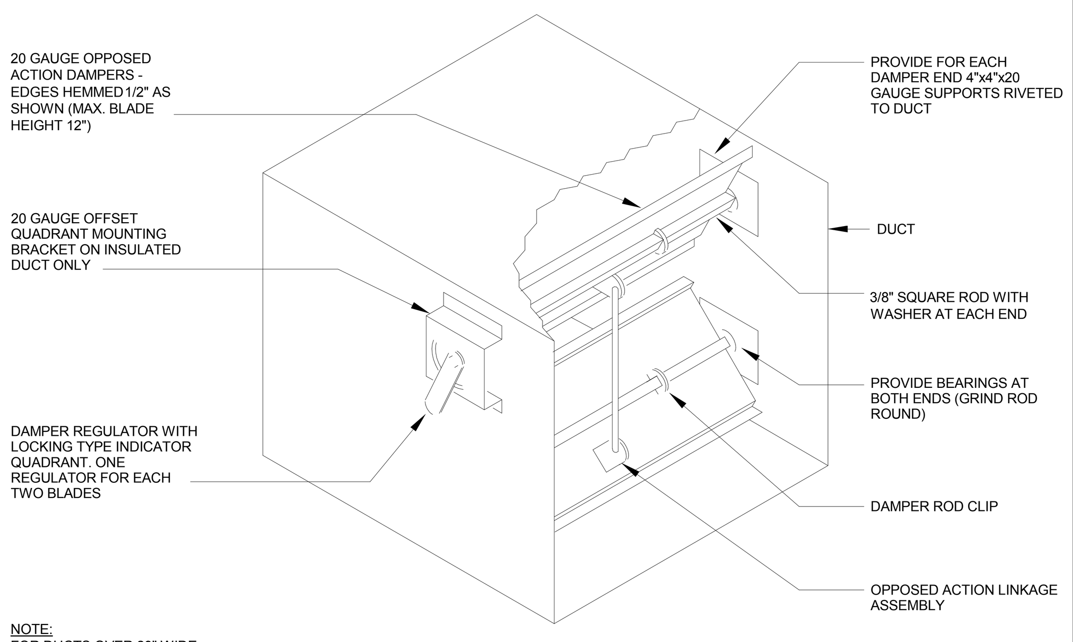
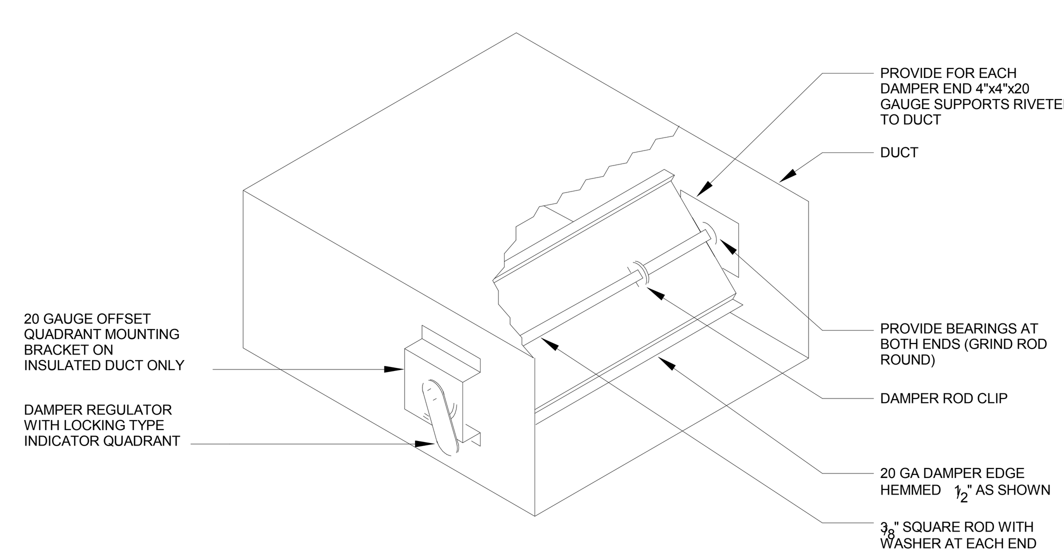


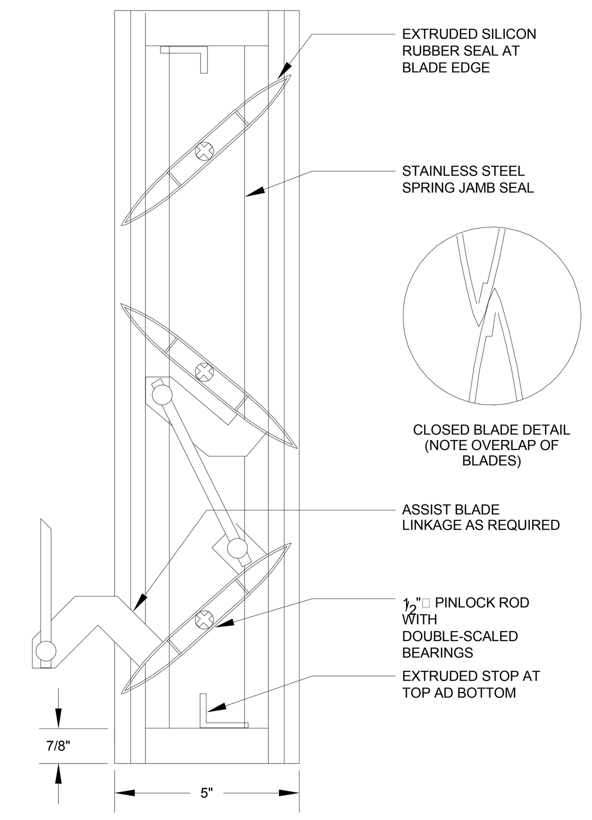
NOTE:
FOR DUCTS OVER 29" WIDE AND/OR OVER 12" HIGH

LOW PRESSURE BALANCING DAMPER
NOT TO SCALE

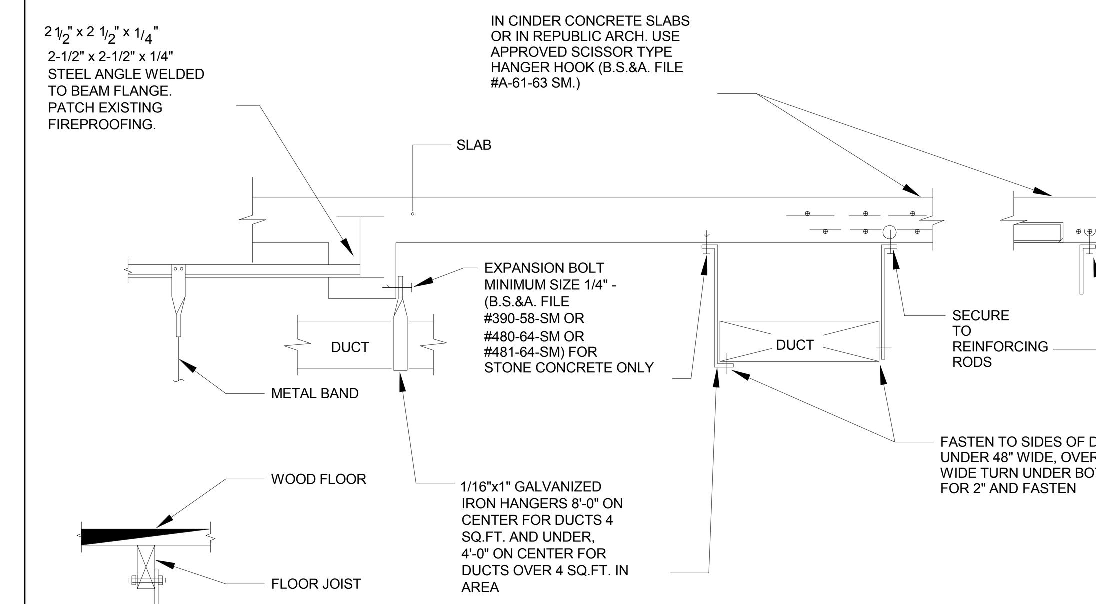


NOTE:
FOR DUCTS UP TO 12" HIGH

LOW PRESSURE BALANCING DAMPER
NOT TO SCALE



OPPOSED BLADE DAMPER
NOT TO SCALE



NOTES:
1. FOR NON-STEEL DUCTS HANGERS TO BE ISOLATED TO PREVENT GALVANIC ACTION.
2. SLOT TO BE CUT IN EXISTING TERRACOTTA ARCH WITH CARBORUNDUM SAW, APPROXIMATELY 1-1/4" LONG (FOR SPLIT TEE TOGGLE).

TYPICAL DUCT HANGING DETAIL - CONCRETE SLAB
NOT TO SCALE

CHECKLIST:
1. COORDINATE WITH CEILING HEIGHTS

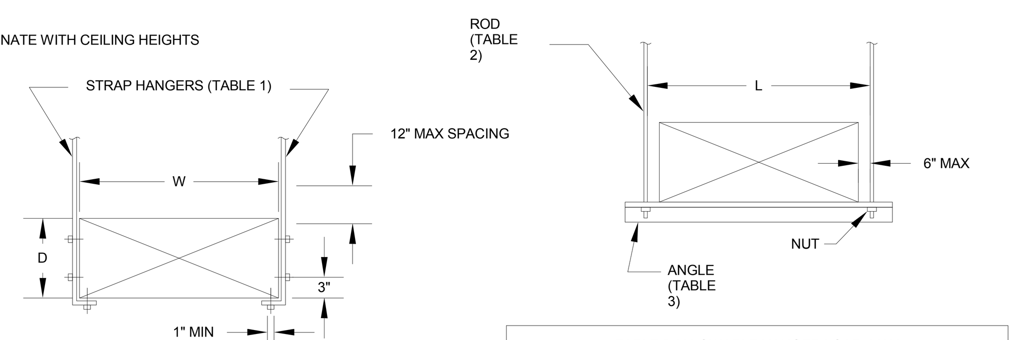


TABLE 1 STRAP HANGERS (PAIR) SPACED	
W+D MAX.	8'-0" MAX.
72"	1" X 22 GA
96"	1" X 20 GA
120"	1" X 18 GA
168"	
192"	

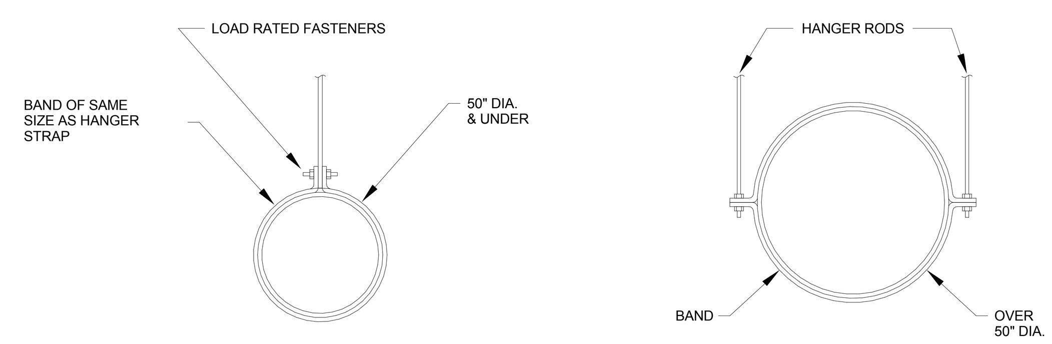
TABLE 2 ALLOWABLE HANGER LOAD, MAX			
STRAPS	LBS	STRAPS	LBS
2 - 1" X 22 GA	520	2 - 3/8" DIA	360
2 - 1" X 22 GA	640	2 - 3/8" DIA	2500
2 - 1" X 22 GA	840	2 - 3/8" DIA	4000
2 - 1" X 22 GA	1400	2 - 3/8" DIA	6000

TABLE 3 TRAPEZE ANGLE LOAD, MAX		
L	2" X 2" X 1/4"	2 1/2" X 2 1/2" X 1/4"
36"	1200 LBS	1940 LBS
48"	1160 LBS	1900 LBS
60"	1060 LBS	1800 LBS
72"	900 LBS	1640 LBS
84"	660 LBS	1400 LBS
96"	320 LBS	1060 LBS

NOTES:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.
2. PROVIDE HIGH DENSITY INSERT AT TRAPEZE FOR INSULATED DUCTS.
3. NO PIPING OR ELECTRIC CONDUIT SHALL BE HUNG FROM THE DUCTWORK.

RECTANGULAR DUCT HANGERS
NOT TO SCALE

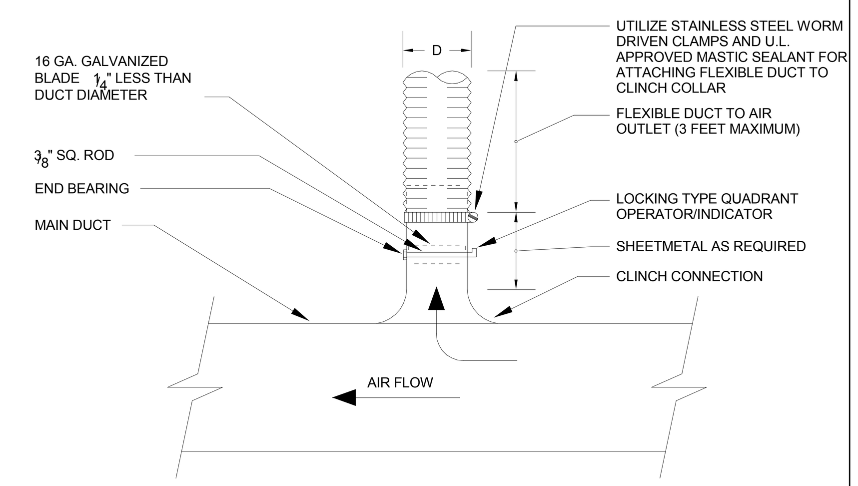
CHECKLIST:
1. VERIFY HOW HANGER RODS ARE SUPPORTED TO BUILDING STRUCTURE.



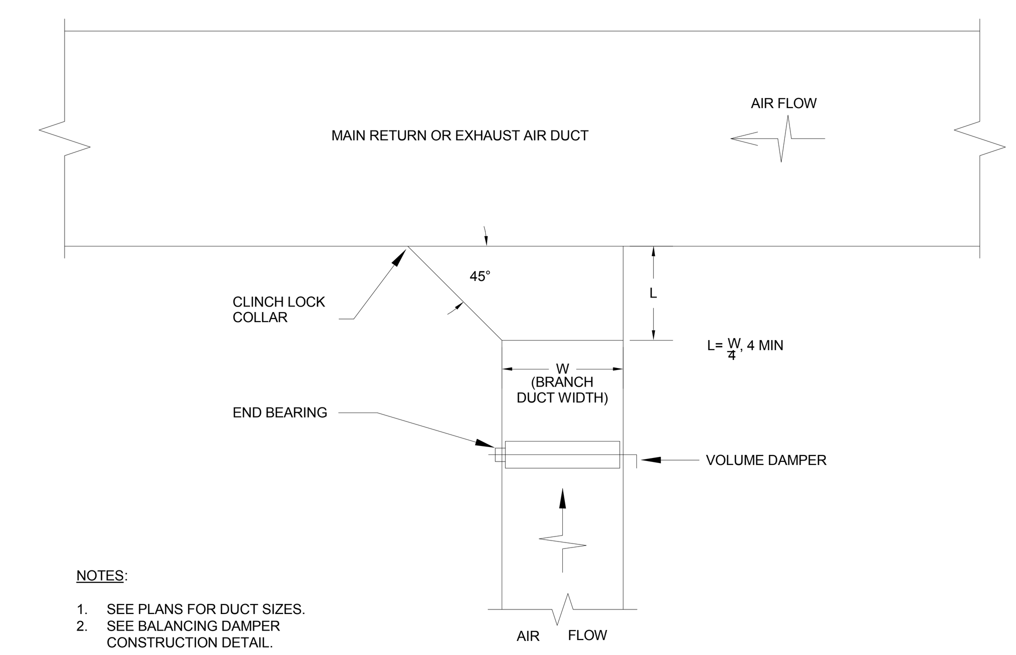
HANGER STRAPS OR RODS			
MAX. CUT DIAMETER	HANGER	MAX. LOAD LBS	MAX. SPACING FT.
26"	ONE 1" X 22 GA STRAP	260	12
36"	ONE 1" X 18 GA STRAP	420	12
50"	ONE 1" X 16 GA STRAP	700	12
60"	TWO 3/8" DIA. RODS	1320	12
84"	TWO 1/2" DIA. RODS	2500	12

NOTES:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.
2. INSULATION AROUND HANGER.

ROUND DUCTWORK HANGERS
NOT TO SCALE

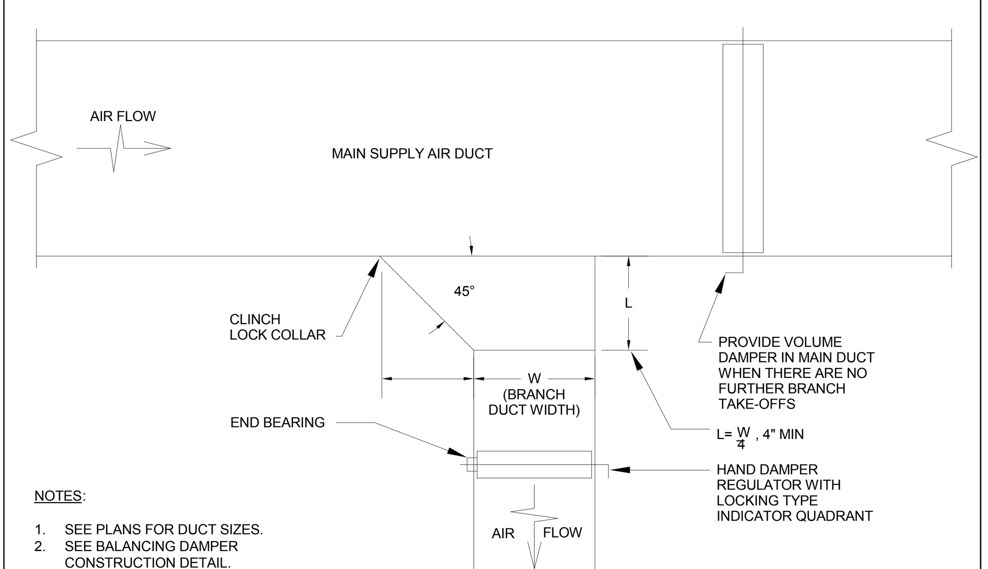


CIRCULAR BRANCH CONNECTION TO SINGLE AIR OUTLET
NOTE TO SCALE



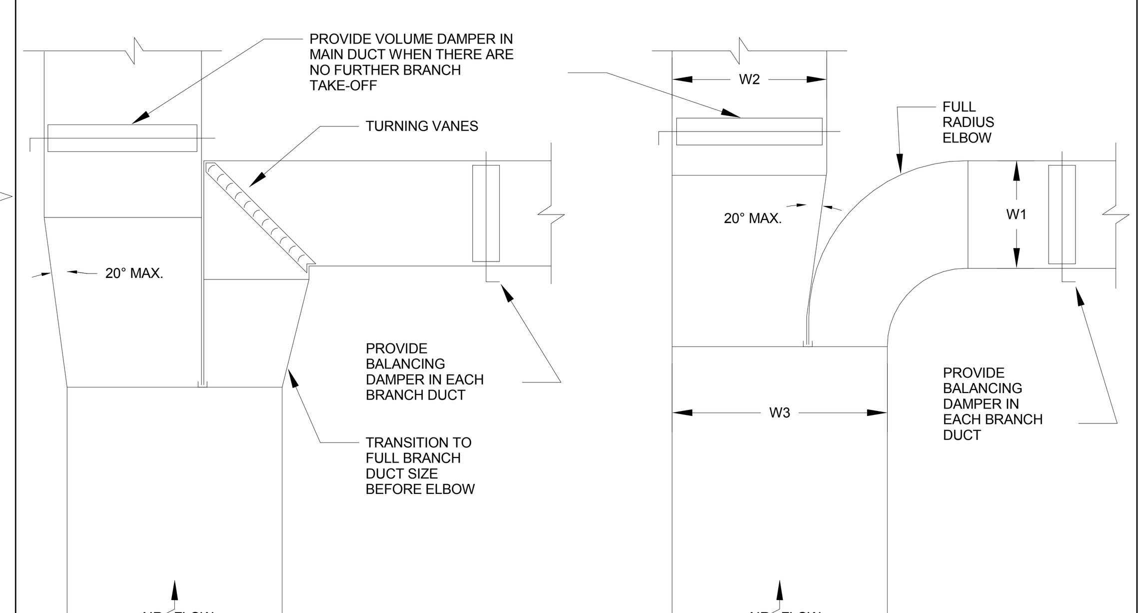
NOTES:
1. SEE PLANS FOR DUCT SIZES.
2. SEE BALANCING DAMPER CONSTRUCTION DETAIL.

TYPICAL DETAIL OF RECTANGULAR RETURN OR EXHAUST AIR DUCT TAP (WITH VOLUME DAMPER)
NOT TO SCALE



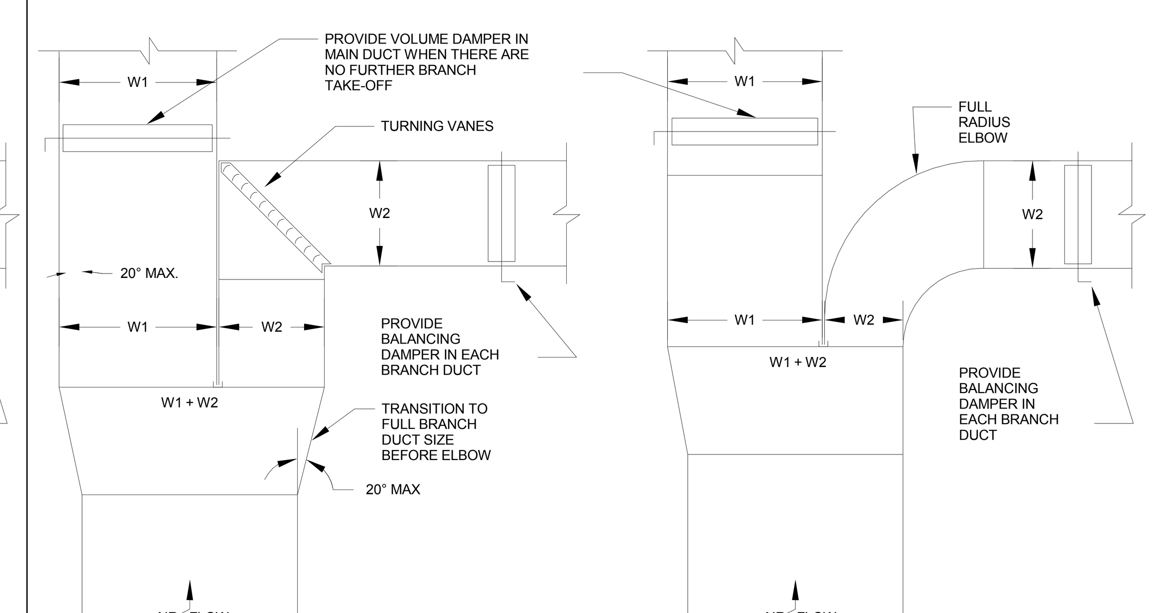
NOTES:
1. SEE PLANS FOR DUCT SIZES.
2. SEE BALANCING DAMPER CONSTRUCTION DETAIL.

TYPICAL DETAIL OF RECTANGULAR SUPPLY AIR DUCT TAP (WITH VOLUME DAMPER)
NOT TO SCALE



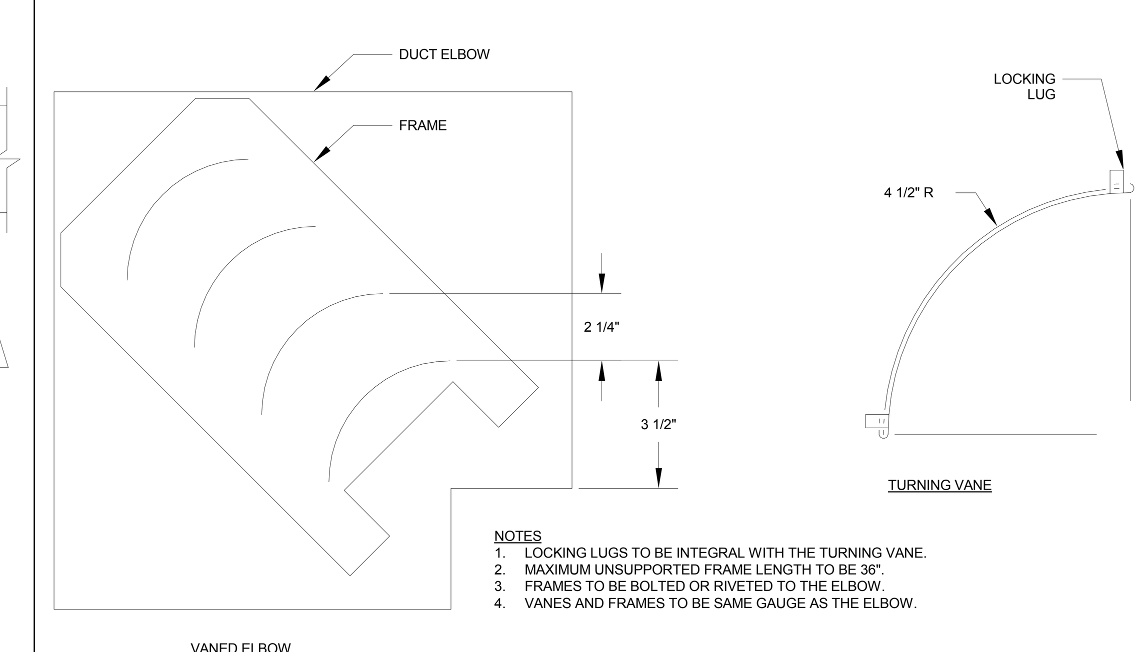
NOTES:
1. SEE PLANS FOR DUCT SIZES.
2. SEE BALANCING DAMPER CONSTRUCTION DETAIL.

DETAIL OF LOW PRESSURE SUPPLY AIR DUCT NECK CONNECTIONS (WITH VOLUME DAMPERS)
NOT TO SCALE



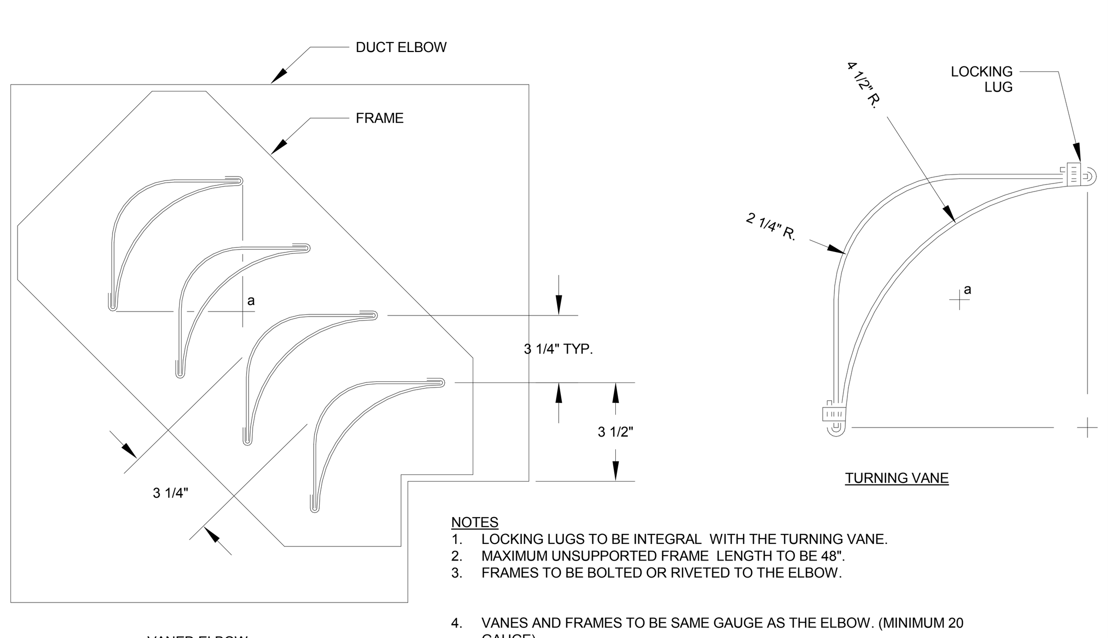
NOTES:
1. SEE PLANS FOR DUCT SIZES.
2. SEE BALANCING DAMPER CONSTRUCTION DETAIL.

DETAIL OF MEDIUM PRESSURE SUPPLY AIR DUCT NECK CONNECTIONS (WITH VOLUME DAMPERS)
NOT TO SCALE



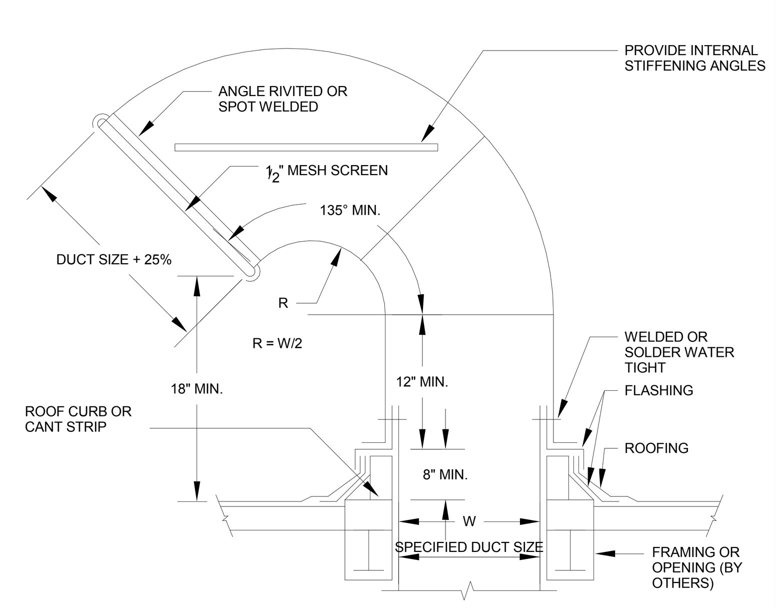
NOTES
1. LOCKING LUGS TO BE INTEGRAL WITH THE TURNING VANE.
2. MAXIMUM UNSUPPORTED FRAME LENGTH TO BE 36".
3. FRAMES TO BE BOLTED OR RIVETED TO THE ELBOW.
4. VANES AND FRAMES TO BE SAME GAUGE AS THE ELBOW.

SINGLE THICKNESS TURNING VANES DETAIL
NOT TO SCALE



NOTES
1. LOCKING LUGS TO BE INTEGRAL WITH THE TURNING VANE.
2. MAXIMUM UNSUPPORTED FRAME LENGTH TO BE 48".
3. FRAMES TO BE BOLTED OR RIVETED TO THE ELBOW.
4. VANES AND FRAMES TO BE SAME GAUGE AS THE ELBOW. (MINIMUM 20 GAUGE)
5. SQUARE ELBOWS ARE TO BE USED ONLY WHEN SPECIFICALLY INDICATED ON THE DESIGN DRAWINGS.

DOUBLE THICKNESS TURNING VANES FOR MITERED ELBOWS
NOT TO SCALE



GOOSENECK DETAIL
NOT TO SCALE

FIRE DAMPER AND COMBINATION FIRE AND SMOKE DAMPER NOTES

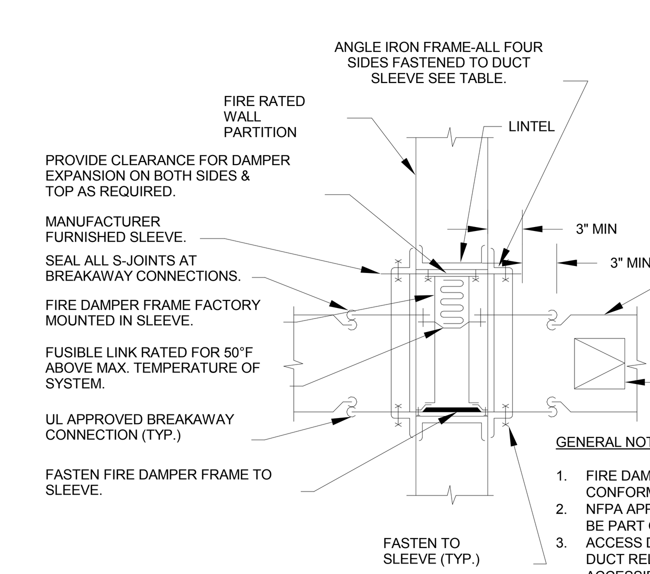
A. FIRE DAMPER

1. FURNISH AND INSTALL A FIRE DAMPER WHERE ON THE DRAWINGS.
2. ALL FIRE DAMPERS SHALL BE RATED TO MAINTAIN THE RATING OF THE FIRE SEPARATION. THEY SHALL BE APPROVED AND LABELED BY UNDERWRITER'S LABORATORIES (U.L.) AND BOARD OF STANDARDS AND APPEALS (B,S,A,) NEW YORK CITY ONLY. THE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED INSTRUCTIONS. DAMPERS SHALL BE AS MANUFACTURED BY IMPERIAL DAMPER CO. MODEL # 150 TYPE A,B OR C (MEA # 300-93-M) OR APPROVED EQUAL BY THE ENGINEER.
3. ALL DUCT-SLEEVE CONNECTION SHALL COMPLY WITH UL 555 ASHRAE & SMACNA.
4. CONNECTIONS BETWEEN SLEEVE AND DUCTWORK SHALL BE BREAKAWAY TYPE SUCH AS "S" SLIP, CRIMP. OR OTHER SLIP TYPE IN ACCORDANCE WITH UL 555.
5. FIRE DAMPER SLEEVE SHALL BE OF THICKNESS NOT LESS THAN THAT REQUIRED BY THE STANDARD FOR INSTALLATION OF AIR CONDITIONING SYSTEMS, NFPA 90A (LATEST EDITION). (IN NEW YORK CITY BUILDING CODE RS.13-1 PARA 3-3.7.2.3).
6. AFTER THE INSTALLATION AT DAMPERS THE CONTRACTOR SHALL SEAL AND TAPE ALL JOINTS FOR AIR TIGHTNESS. SEALANTS USED SHALL BE 3M COMPANY NO. 800, MIRACLE ADHESIVE CORPORATION, OR AS APPROVED AND GREY VINYL DUCT TAPE AS MANUFACTURED BY NASHUA CORPORATION OR AS APPROVED. BREAKAWAY CONNECTION SHALL BE SEALED PER FIRE DAMPER MANUFACTURER'S RECOMMENDATION.
7. TO ALLOW FOR EXPANSION, DAMPERED SHALL HAVE A TOP CLEARANCE EQUIVALENT TO 1/8" FOR EACH FOOT OF DAMPER HEIGHT. THE SIDE CLEARANCE SHALL BE 1/8" FOR EACH FOOT OF DAMPER WIDTH DIVIDED EQUALLY TO THE RIGHT AND LEFT OF THE COLLAR. THE MAXIMUM CLEARANCE FOR THE TOP AND THE TOTAL OF BOTH SIDES SHALL BE 1/2" EACH. THE RATAINING ANGLES SHALL BE 1-1/2"x1-1/2"x14 GAUGE BENT ANGLE SO THAT THERE
8. WILL BE A MINIMUM OF 1" OF OVERLAP ON THE FIRE SEPARATION. DAMPER SHALL BE SECURED TO SLEEVE WITH EITHER 1/2" TACKWELDS, NO. 10 SHEET METAL SCREWS, 1/4" DIA. NUTS AND BOLTS, OR 3/16" STEEL RIVETS ALL ON 8" CENTER.
9. GALVANIZED STEEL RETAINING ANGLES SHALL BE SECURED TO SLEEVE WITH EITHER 1/2" TACK WELDS, NO. 10 SHEETMETAL SCREWS, 1/4" DIA. NUTS AND BOLTS, OR 3/16" STEEL RIVETS, ALL 8" ON CENTER.
10. WHERE THE HUNG CEILING DOES NOT HAVE REMOVABLE TILES AN ACCESS DOOR (FIRE RATED WHERE REQUIRED) SHALL BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED IN CEILING NEAR LOCATION OF FIRE DAMPER.
11. ALL DUCT ACCESS DOORS SHALL BE LOCATED SO THAT THERE WILL NOT BE ANY INTERFERANCES FOR MAINTENANCE AND INSPECTION OF DAMPER.

B. COMBINATION FIRE/SMOKE DAMPERS (CFSD):

1. FURNISH & INSTALL COMBINATION FIRE SMOKE DAMPERS WHERE INDICATED ON THE DRAWINGS.
2. DAMPERS ARE TO BE 1 1/2 OR 3 HOUR (AS REQUIRED) UL 555 RATED AND UL 555S CLASSIFICATION FOR C.F.S.D.
3. PROVIDE FIRESATE, ELECTRIC OR PNEUMATIC OPERATOR FOR EACH CSFD. (SEE SPECIFICATIONS FOR REQUIREMENTS).
4. OPERATION: DAMPER SHALL BE CLOSED UPON RECEIVING A SIGNAL FROM THE FIRE ALARM PANEL AND/OR IN RESPONSE TO LOCAL FIRE/SMOKE SIGNAL: WHEN DAMPER IS CLOSED IN RESPONSE TO SMOKE OR FIRE, A MANUAL OVERIDE SIGNAL FROM THE FIRE ALARM PANEL SHALL OPEN THE DAMPER IF REQUIRED. DAMPER OPERATION CAPABILITIES ARE TO BE MAINTAINED REGARDLESS OF PRESENCE OF FIRE OR SMOKE CONDITIONS.
5. INSTALL DUCT DETECTORS AS INDICATED ON PLANS (FURNISHED BY ELECTRICAL CONTRACTOR). LOCATE DUCT DETECTORS UPSTREAM OF THE DAMPERS IN THE DIRECTION OF AIR FLOW. COORDINATE ALL WORK WITH ELECTRICAL CONTRACTOR.

CHECKLIST:
1. VERIFY LOCATION OF ACCESS DOORS
2. VERIFY WHETHER FIRE DAMPER OR FIRE SMOKE DAMPER IS REQUIRED.



ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 54"	1 1/2"X1 1/2"X 1/8"
55" TO 84"	3"X2"X 3/16"
85" TO 120"	3"X2"X 3/16"

NOTE:
RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS.

GENERAL NOTES:
1. FIRE DAMPER TO BE U.L. LABELED AND CONFORM TO NFPA 90A.
2. NFPA APPROVED INSTALLATION DETAILS TO BE PART OF SHOP DRAWING SUBMISSION.
3. ACCESS DOOR IS SHOWN IN SIDE OF DUCT RELOCATE IF FUSIBLE LINK IS MORE ACCESSIBLE FROM BOTTOM OF DUCT.
4. THIS DETAIL IS A GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

VERTICAL FIRE DAMPER DETAIL TYPE "B" (OUT OF AIR STREAM)
NOT TO SCALE

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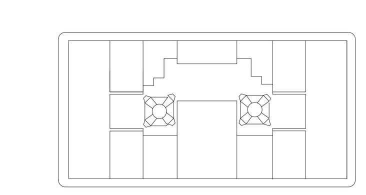

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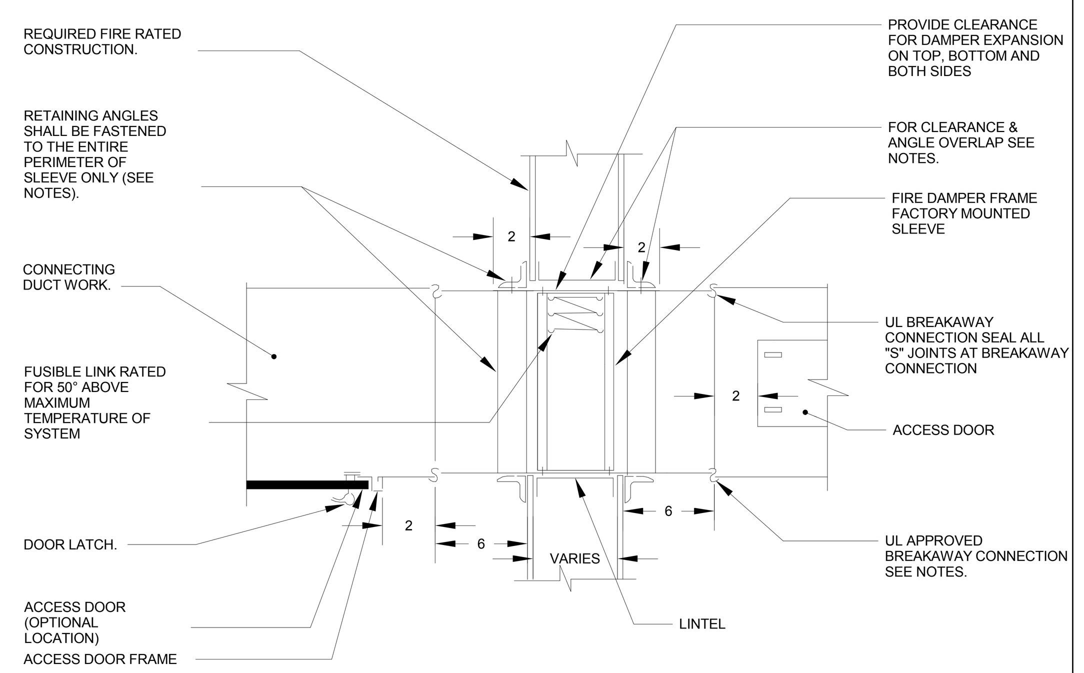


BRANCH OR MAIN DUCT WITH TYPE "A" FIRE DAMPER

NOT TO SCALE

ENGINEERS NOTE:

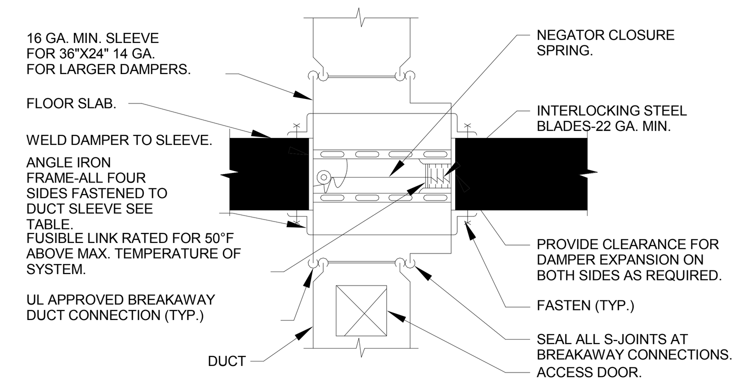
FIRE DAMPER NOTES MD-014 MUST ACCOMPANY THIS DETAIL. DO NOT USE FOR DUCTS LESS THAN 12" DEEP DUE TO LARGE PRESSURE LOSS.

GENERAL NOTES:

1. FIRE DAMPER TO BE U.L. LABELED AND CONFORM TO NFPA 90A.
2. NFPA APPROVED INSTALLATION DETAILS TO BE PART OF SHOP DRAWING SUBMISSION.
3. ACCESS DOOR IS SHOWN IN SIDE OF DUCT RELOCATE IF FUSIBLE LINK IS MORE ACCESSIBLE FROM BOTTOM OF DUCT.
4. THIS DETAIL IS A GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 54"	1 1/2"X1 1/2"X 1/8"
55" TO 84"	3"X2"X 3/16"
85" TO 120"	3"X2"X 3/16"

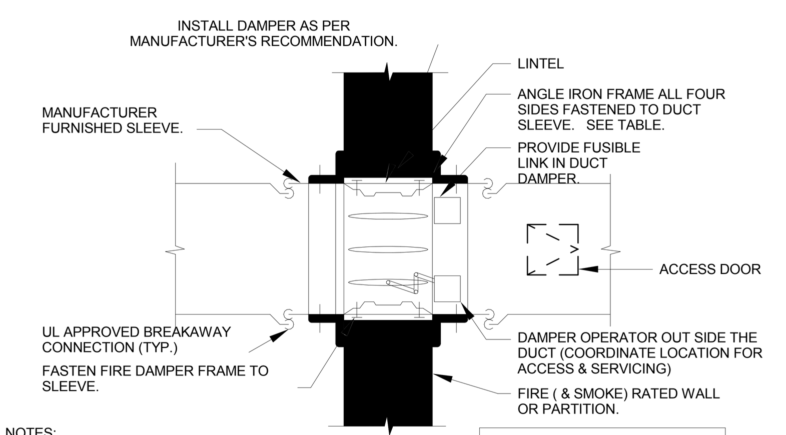
NOTE:
RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS.



HORIZONTAL FIRE DAMPER DETAIL TYPE "B"

NOT TO SCALE

ENGINEERING NOTES:
1. NOT APPLICABLE FOR SMOKE EXHAUST WITH FIRE DAMPER, SEE MD-020.
2. PROVIDE COORDINATION WITH ELECTRICAL ENGINEERS.
3. PROVIDE SEQUENCE OF OPERATION.
4. VERIFY ACCESS TO FIRE SMOKE DAMPERS.



GENERAL NOTES:

1. FIRE DAMPER TO BE N.F.P.A. 90A AND BSA APPROVED.
2. N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF COMBINATION FIRE & SMOKE DAMPER FOR APPROVAL WHICH SHALL MEET N.F.P.A. STANDARD 90A AND BSA APPROVED.
3. DETAILS SHOWN ARE FOR COMBINATION FIRE AND SMOKE DAMPERS IN HORIZONTAL DUCT WORK.
4. ACCESS DOOR IS SHOWN IN SIDE OF DUCT .
5. THIS DETAIL IS A GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

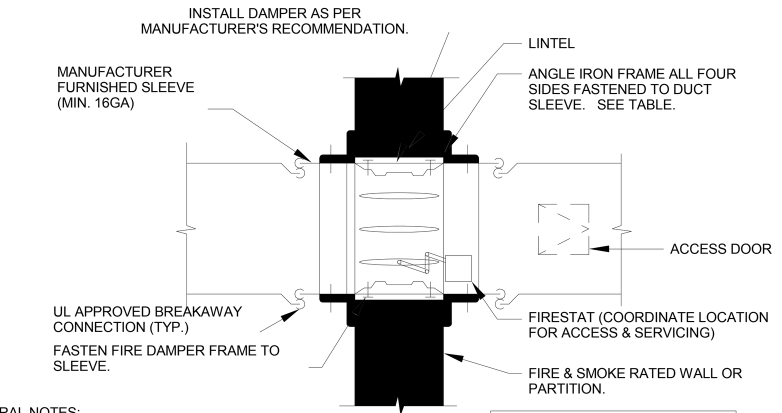
ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 54"	1-1/2"x1-1/2"x1/8"
55" TO 84"	3"x2"x3/16"
85" TO 120"	3"x2"x3/16"

NOTE:
RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS.

COMBINATION OF FIRE & SMOKE DAMPER WITH FUSIBLE LINK

NOT TO SCALE

ENGINEERING NOTES:
1. PROVIDE COORDINATION WITH ELECTRICAL ENGINEERS.
2. PROVIDE SEQUENCE OF OPERATION.
3. VERIFY ACCESS TO FIRE SMOKE DAMPERS.



GENERAL NOTES:

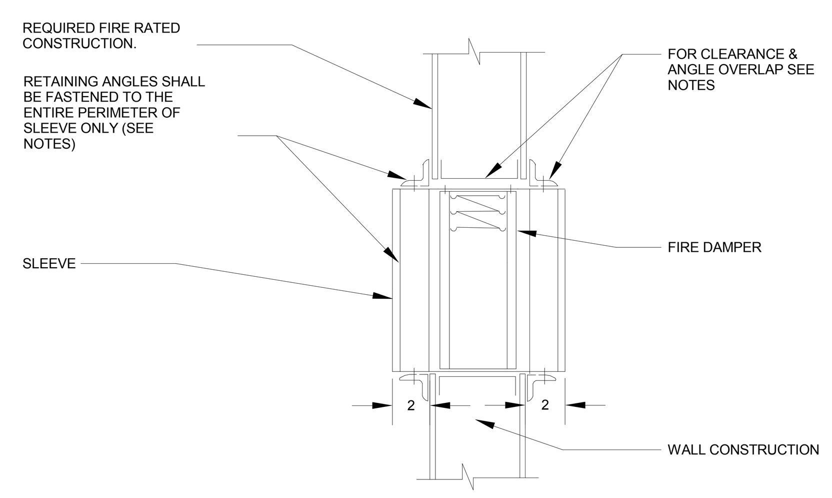
1. FIRE DAMPER TO BE N.F.P.A. 90A AND BSA APPROVED.
2. N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF COMBINATION FIRE & SMOKE DAMPER FOR APPROVAL THAT SHALL MEET N.F.P.A. STANDARD 90A AND BSA APPROVED.
3. DETAILS SHOWN ARE FOR COMBINATION FIRE AND SMOKE DAMPERS IN HORIZONTAL DUCT WORK. FOR DAMPERS IN VERTICAL DUCTWORK, DETAIL IS SIMILAR.
4. ACCESS DOOR IS SHOWN IN SIDE OF DUCT.
5. DETAIL FOR SMOKE DAMPER SHALL BE SIMILAR TO COMBINATION DAMPER EXCEPT DELETE FUSIBLE LINK IN DAMPER.
6. THIS DETAIL IS A GUIDE ONLY. INSTALL DAMPER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 54"	1-1/2"x1-1/2"x1/8"
55" TO 84"	3"x2"x3/16"
85" TO 120"	3"x2"x3/16"

NOTE:
RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MIN. AND COVER CORNERS OF OPENINGS.

COMBINATION OF FIRE & SMOKE DAMPER FOR ENGINEERED SMOKE PURGE SYSTEM ONLY

NOT TO SCALE



NOTE:

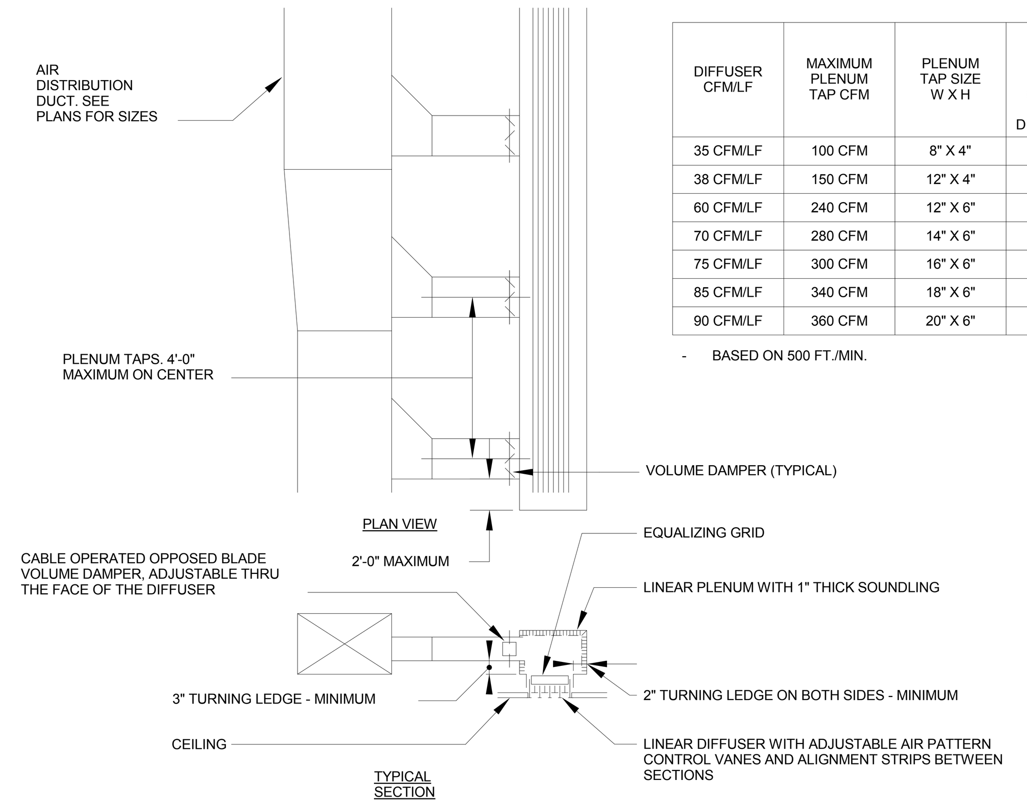
REFER TO FIRE DAMPER NOTES.

TRANSFER DUCT WITH TYPE "A" FIRE DAMPER

NOT TO SCALE

ENGINEERS NOTE:

FIRE DAMPER NOTES H01-028 MUST ACCOMPANY THIS DETAIL. DO NOT USE FOR DUCTS LESS THAN 12" DEEP DUE TO LARGE PRESSURE LOSS, USE TYPE "B" DAMPER.

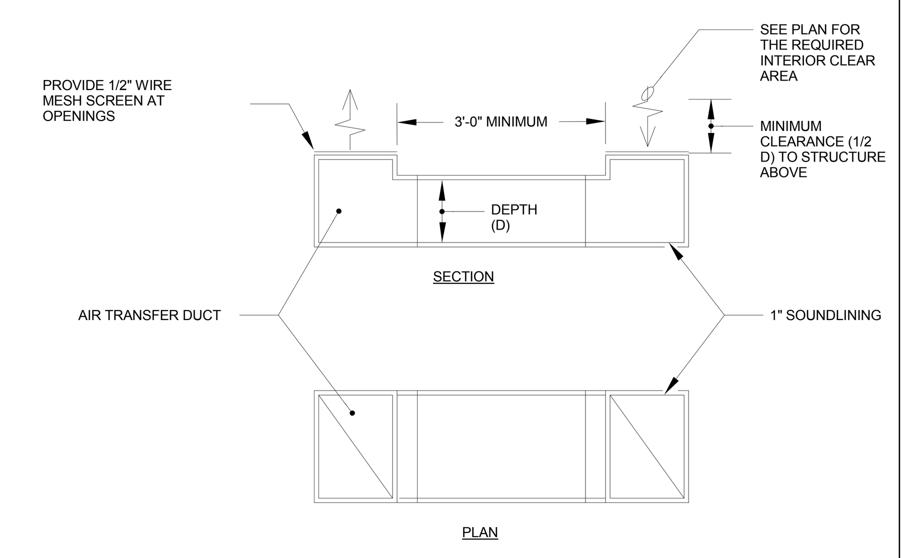


DIFFUSER CFM/LF	MAXIMUM PLENUM TAP CFM	PLENUM TAP SIZE W X H	MINIMUM PLENUM SIZE W X H (INTERIOR CLEAR DIMENSIONS)
35 CFM/LF	100 CFM	8" X 4"	6" X 6"
38 CFM/LF	150 CFM	12" X 4"	8" X 6"
60 CFM/LF	240 CFM	12" X 6"	8" X 8"
70 CFM/LF	280 CFM	14" X 6"	10" X 8"
75 CFM/LF	300 CFM	16" X 6"	10" X 10"
85 CFM/LF	340 CFM	18" X 6"	10" X 10"
90 CFM/LF	360 CFM	20" X 6"	10" X 10"

- BASED ON 500 FT./MIN.

DETAIL OF LINEAR DIFFUSER INSTALLATION

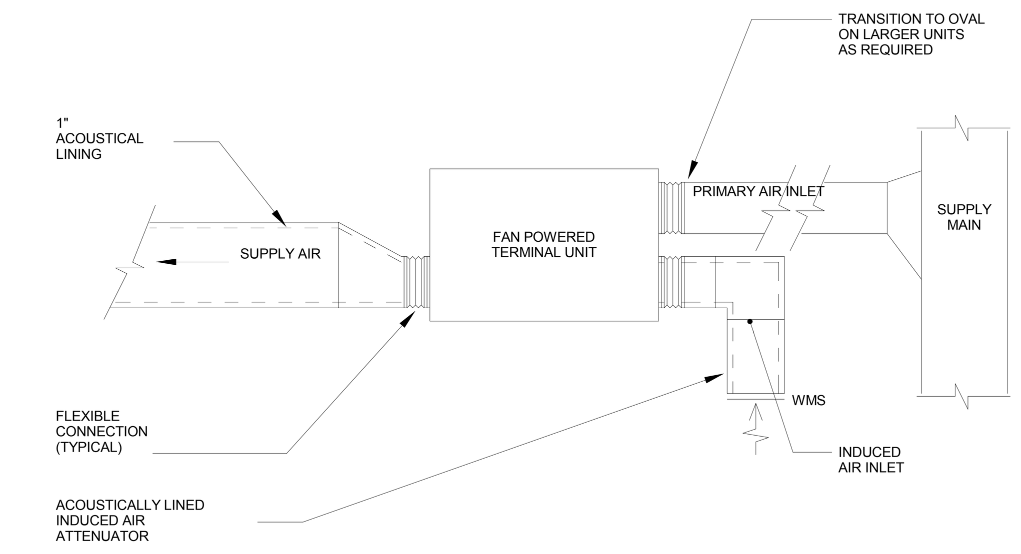
NOT TO SCALE



NOTE:
REVERSE TRANSFER OPENINGS TO FACE DOWNWARD IF MINIMUM CLEARANCE CANNOT BE MAINTAINED AS INDICATED.

TYPICAL DETAIL OF SOUND-LINED TRANSFER DUCT

NOT TO SCALE

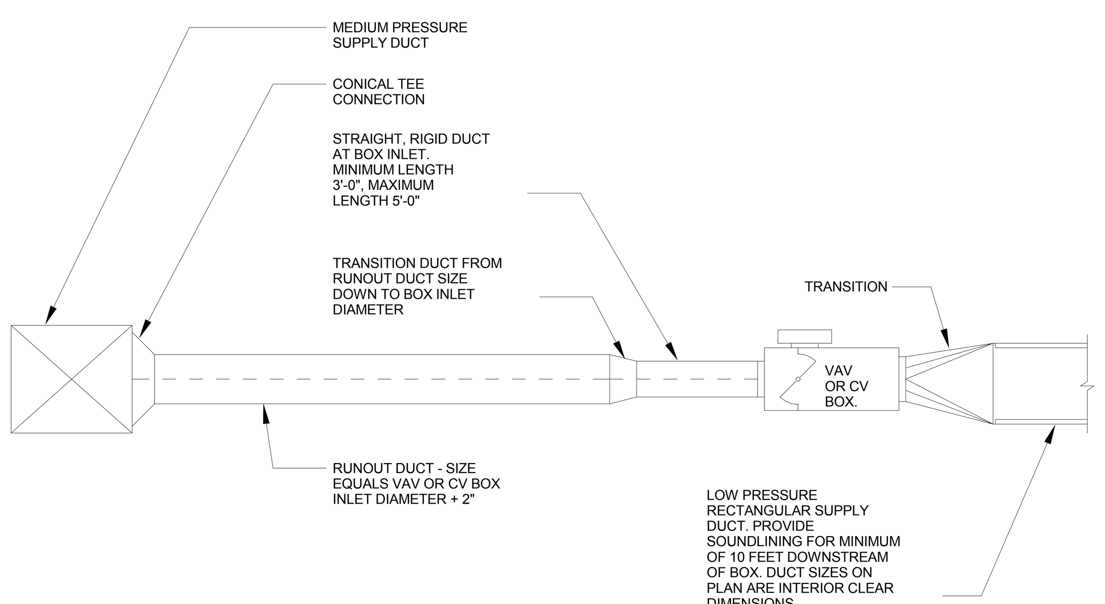


NOTES:

1. ALL UNITS TO BE PROVIDED WITH VIBRATION ISOLATORS AND TO BE SUPPORTED FROM CONSTRUCTION SLAB OR STRUCTURAL STEEL.
2. INSTALL TERMINAL UNITS CLEAR OF LIGHTS FOR ACCESS.
3. SEE HVAC EQUIPMENT HANGING DETAIL FOR SUPPORT.
4. SEE TERMINAL UNIT DETAIL FOR PRIMARY AIR INLET REQUIREMENTS.

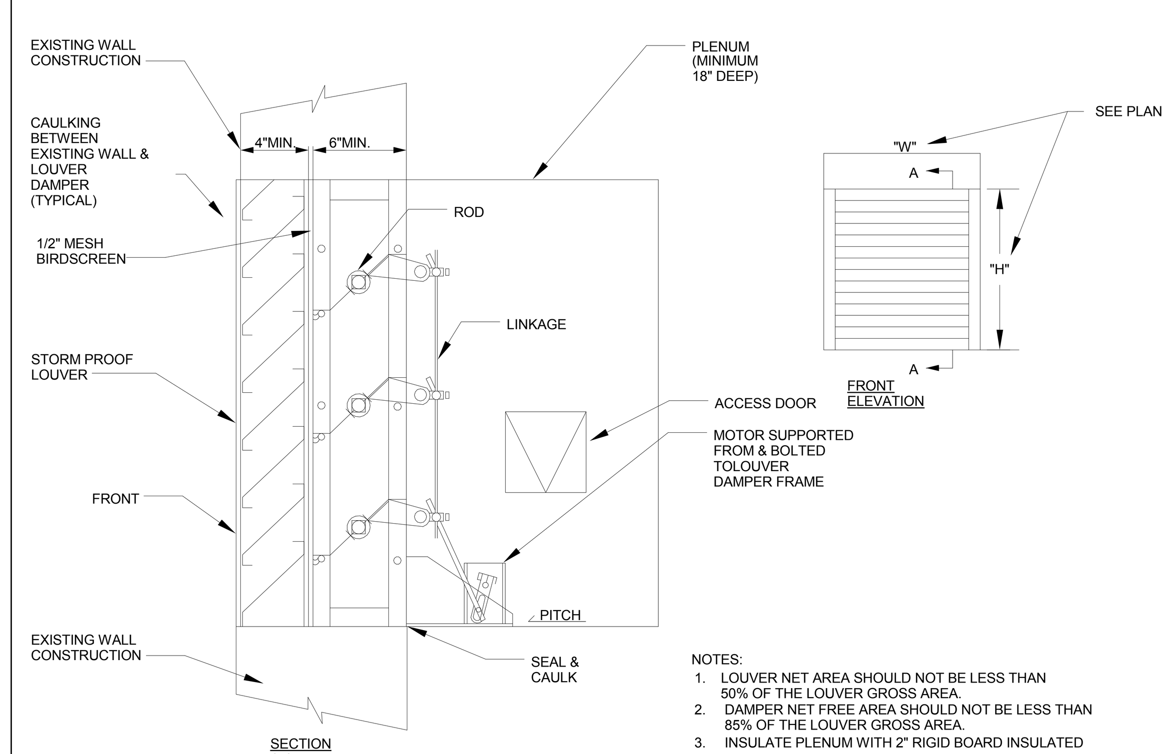
FAN POWERED TERMINAL UNIT DETAIL

NOT TO SCALE



DETAIL OF VAV OR CV BOX CONNECTIONS

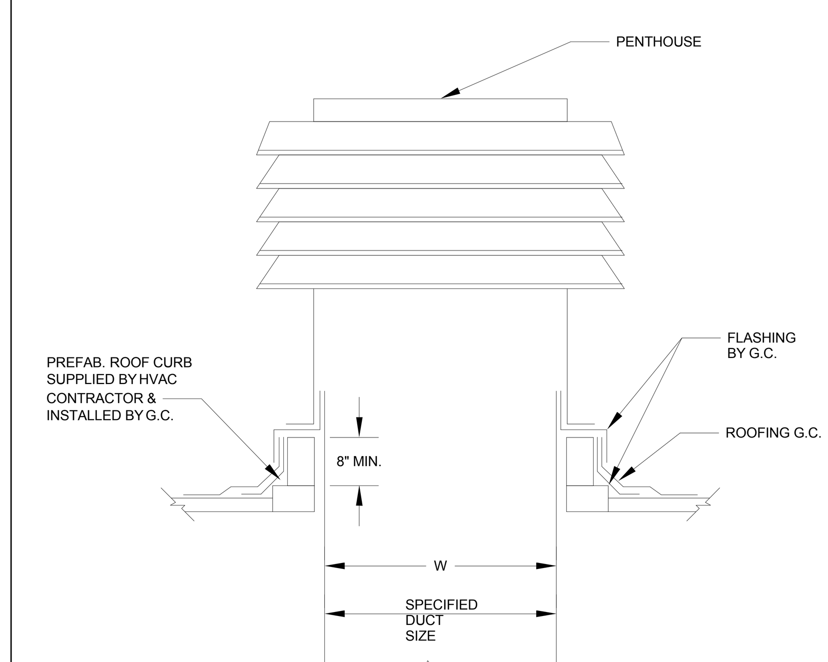
NOT TO SCALE



NOTES:
1. LOUVER NET AREA SHOULD NOT BE LESS THAN 50% OF THE LOUVER GROSS AREA.
2. DAMPER NET FREE AREA SHOULD NOT BE LESS THAN 85% OF THE LOUVER GROSS AREA.
3. INSULATE PLENUM WITH 2" RIGID BOARD INSULATED

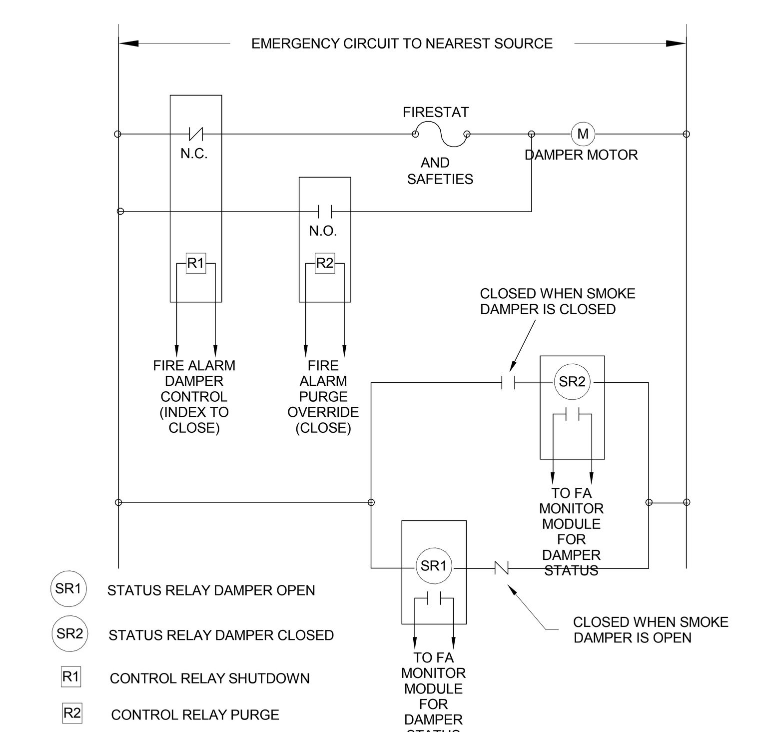
MOTORIZED LOUVER DAMPER

NOT TO SCALE



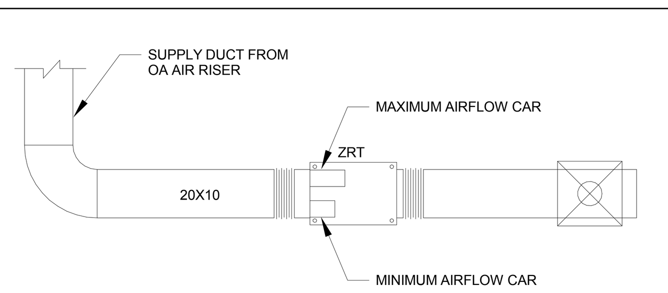
LOUVERED PENTHOUSE DETAIL

NOT TO SCALE



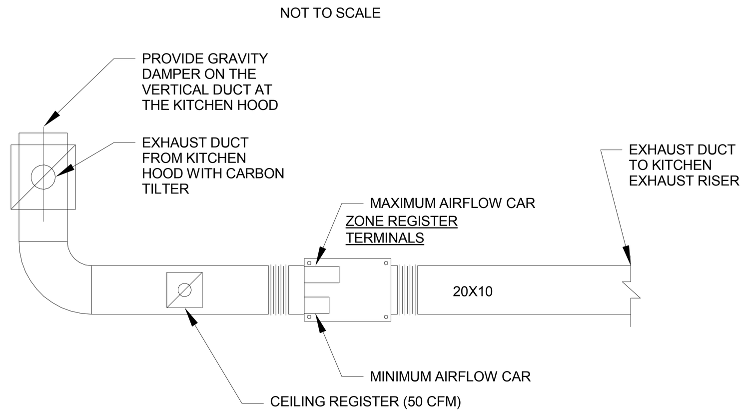
WIRING DIAGRAM FOR FIRE/SMOKE DAMPER MONITORING AND CONTROL VIA FIRE ALARM SYSTEM

NOT TO SCALE



ZONE REGISTER TERMINAL :OA SUPPLY

NOT TO SCALE

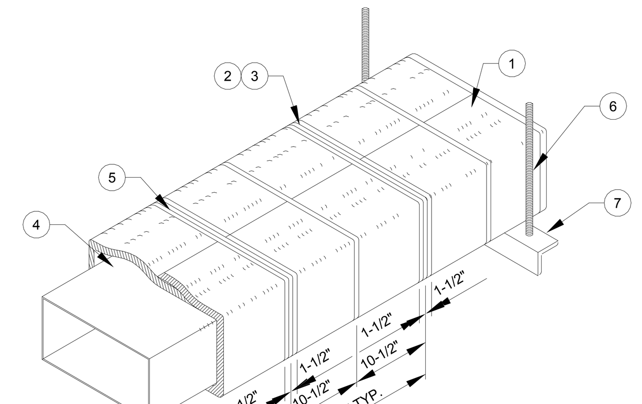


ZONE REGISTER TERMINAL :KX EXHAUST (ZRT) DETAIL

NOT TO SCALE

NOTES:
1. DUCTS > 24" WIDE REQUIRE PINNING ON THE BOTTOM SIDE OF HORIZONTAL DUCTS AND A MINIMUM OF ONE OF THE WIDER SIDES OF A VERTICAL DUCT.
2. VERTICAL DUCTS > 48" WIDE REQUIRE PINNING ON ALL SIDES.
3. DUCT SHALL NOT EXCEED 85"WIDE TO MEET UL RATING (SEE TABLE)

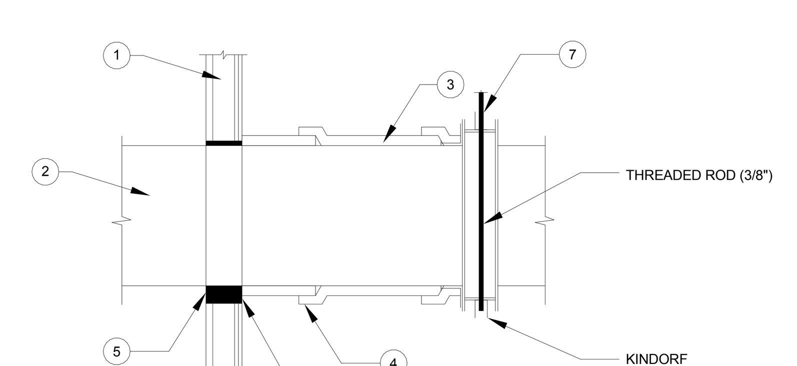
LEGEND	
1	ONE LAYER FIREMASTER DUCT WRAP 615+
2	FILAMENT TAPE (3/4")
3	STEEL BANDING - 1/2"
4	3" PERIMETER OVERLAP
5	3" LONGITUDINAL OVERLAP
6	1/2" DIAMETER HANGER ROD
7	1-1/2"x1-1/2"x1/8" ANGLE



VENTILATION DUCT REQUIREMENTS			
DUCT TYPE	MIN. GAUGE	MAX DIMENSION	MAX. AREA
1	26	12	144
2	24	40	400
3	22	60	1440
4	22	85	2040

FIREWRAP VENTILATION DUCT SYSTEM

NOT TO SCALE



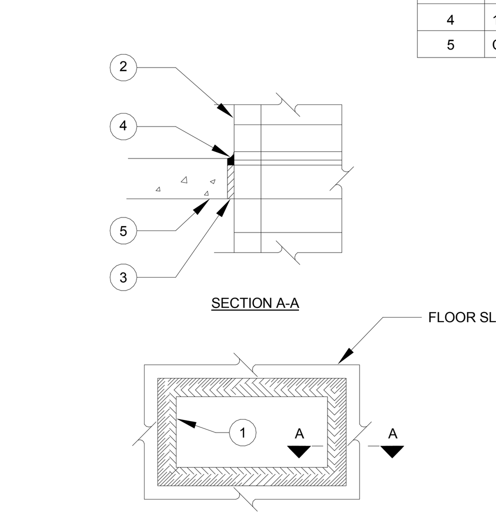
1. GYPSUM SHAFTWALL ASSEMBLY.
2. MAX. 24"X85" HVAC DUCT PER 3MU/DI 120-01
3. 3M FIRE BARRIER DUCT WRAP 615+
4. BANDING OR PINNING.
5. MIN. 4 PCF MINERAL WOOL COMPRESSED 33%.
6. CP 25WB+ OR FB 1000 NS, MIN 5/8 IN.
7. DAMPER SUPPORT.

NOTE: SUPPORT DAMPER PER DAMPER MANUFACTURER GUIDELINES.

FIRE WRAP VENTILATION DUCT DAMPER EXTENSION DETAIL

NOT TO SCALE

LEGEND	
1	DUCT
2	ONE LAYER FIREMASTER DUCT WRAP
3	4-1/4" FIREMASTER DUCT WRAP
4	1/4" 3M FIRE BARRIER 2000+ SILICONE
5	CONCRETE SLAB



FIREWRAP VENTILATION DUCT FLOOR/WALL THROUGH PENETRATION SYSTEM

NOT TO SCALE

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ANBANG GROUP 安邦集团

ARCHITECT
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Skidmore, Owings & Merrill LLP

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Silman

MEPF & SITE CIVIL ENGINEER
Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

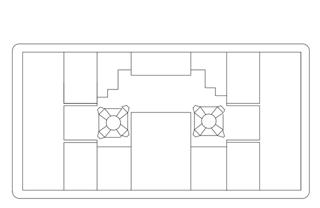
TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



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NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
MECHANICAL DETAILS 2

B-SCAN - DRAWING NUMBER
M-702.00

PAGE NUMBER

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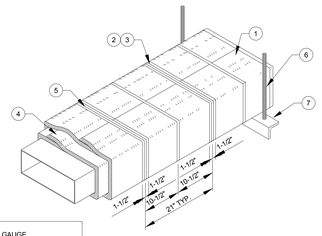
B1900620250 Scan Code

NOTES:
1. DUCTS > 24" WIDE REQUIRE PINNING ON THE BOTTOM SIDE OF HORIZONTAL DUCTS AND A MINIMUM OF ONE OF THE WIDER SIDES OF A VERTICAL DUCT.
2. VERTICAL DUCTS > 48" WIDE REQUIRE PINNING ON ALL SIDES.

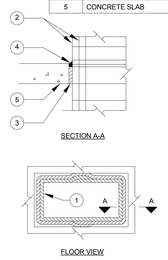
LEGEND	
1	TWO LAYERS FIREMASTER DUCT WRAP
2	FILAMENT TAPE
3	BANDING
4	3" PERIMETER OVERLAP
5	3" LONGITUDINAL OVERLAP
6	1/2" DIAMETER HANGER ROD
7	1-1/2"x1-1/2"x1/8" ANGLE



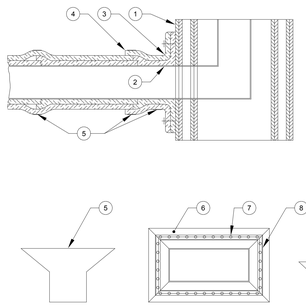
DUCTWORK MINIMUM GAUGE	
DUCT CROSS SECTIONAL AREA	MINIMUM GAUGE
UP TO 155 SQ. IN.	NO. 16
155 TO 200 SQ. IN.	NO. 14
> 200 SQ. IN.	NO. 12

FIREWRAP GREASE DUCT SYSTEM
NOT TO SCALE

LEGEND	
1	DUCT
2	TWO LAYERS FIREMASTER DUCT WRAP
3	4-1/4" FIREMASTER DUCT WRAP
4	1/4" 3M FIRE BARRIER 2000+ SILICONE
5	CONCRETE SLAB



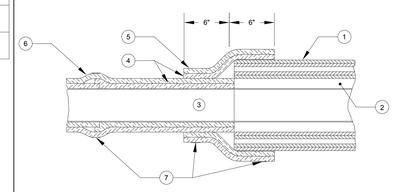
FIREMASTER GREASE DUCT FLOOR/WALL THROUGH PENETRATION SYSTEM
NOT TO SCALE



LEGEND	
1	RATED SHAFT WALL
2	1st LAYER FIREMASTER DUCT WRAP
3	2nd LAYER FIREMASTER DUCT WRAP
4	3" MINIMUM OVERLAP
5	BANDING
6	FIREMASTER DUCT WRAP
7	ANCHORED GYPSUM BOARD SCREWS
8	BAR STOCK 2"-3" WIDE, 1/8" THICK
9	1st LAYER TRANSITION PATTERN FIREMASTER DUCT WRAP
10	2nd LAYER TRANSITION PATTERN FIREMASTER DUCT WRAP

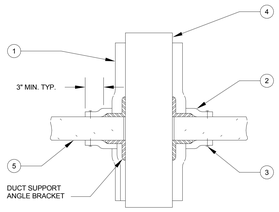
GREASE DUCT VERTICAL SHAFT GREASE DUCT TRANSITION INSTALLATION DETAIL
NOT TO SCALE

LEGEND	
1	RATED SHAFT WALL
2	3" MINIMUM AIR GAP
3	DUCT
4	1st LAYER FIREMASTER DUCT WRAP
5	2nd LAYER FIREMASTER DUCT WRAP
6	3" OVERLAP
7	BANDING



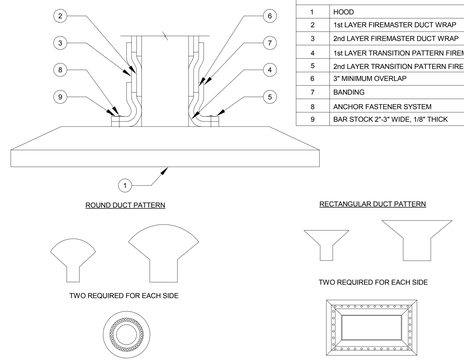
GREASE DUCT HORIZONTAL OR VERTICAL GREASE DUCT SHAFT TRANSITION INSTALLATION DETAIL
NOT TO SCALE

LEGEND	
1	ONE LAYER FIREMASTER DUCT WRAP
2	ONE LAYER FIREMASTER DUCT WRAP
3	MECHANICAL FASTENERS & WASHERS
4	DUCT
5	RATED FLOOR



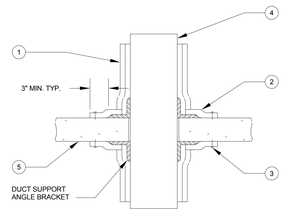
TYPICAL VERTICAL VENTILATION DUCT SUPPORT INSTALLATION DETAIL
NOT TO SCALE

LEGEND	
1	HOOD
2	1st LAYER FIREMASTER DUCT WRAP
3	2nd LAYER FIREMASTER DUCT WRAP
4	1st LAYER TRANSITION PATTERN FIREMASTER DUCT WRAP
5	2nd LAYER TRANSITION PATTERN FIREMASTER DUCT WRAP
6	3" MINIMUM OVERLAP
7	BANDING
8	ANCHOR FASTENER SYSTEM
9	BAR STOCK 2"-3" WIDE, 1/8" THICK



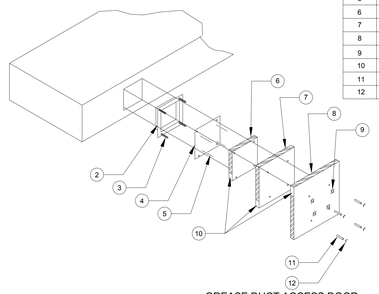
TERMINATION OF GREASE DUCT WRAP AT HOOD LOCATION INSTALLATION DETAIL
NOT TO SCALE

LEGEND	
1	TWO LAYER FIREMASTER DUCT WRAP
2	ONE LAYER FIREMASTER DUCT WRAP
3	MECHANICAL FASTENERS & WASHERS
4	DUCT
5	RATED FLOOR



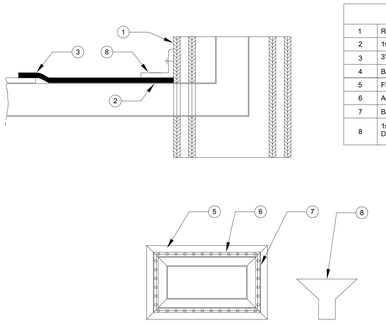
TYPICAL VERTICAL GREASE DUCT SUPPORT INSTALLATION DETAIL
NOT TO SCALE

LEGEND	
1	DOOR HOLE
2	ACCESS FRAME WELDED TO DUCT
3	1/4" DIAMETER ALL THREAD RODS
4	ACCESS COVER - 16 GAUGE
5	INSULATION PINS - WELDED
6	FIREMASTER DUCT WRAP
7	FIREMASTER DUCT WRAP 1" OVERLAP
8	FIREMASTER DUCT WRAP 1" OVERLAP
9	SPEED CLIPS
10	ALUMINUM TAPE AT EDGES
11	SPOOL PIECES FOR THREADED RODS
12	1/4" DIAMETER WING NUTS



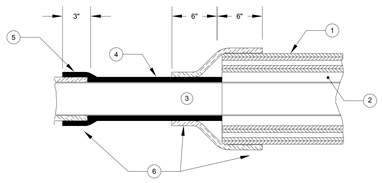
GREASE DUCT ACCESS DOOR ENCLOSURE INSTALLATION
NOT TO SCALE

LEGEND	
1	RATED SHAFT WALL
2	1st LAYER FIREMASTER DUCT WRAP
3	3" MINIMUM AIR GAP
4	DUCT
5	1st LAYER FIREMASTER DUCT WRAP
6	3" OVERLAP
7	BANDING
8	ANCHORED GYPSUM BOARD SCREWS

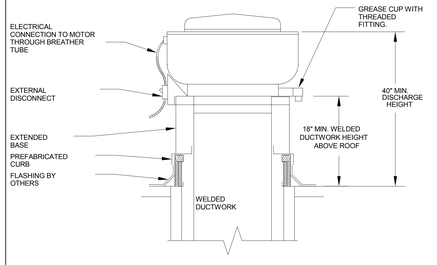


VENTILATION DUCT VERTICAL SHAFT TRANSITION INSTALLATION DETAIL
NOT TO SCALE

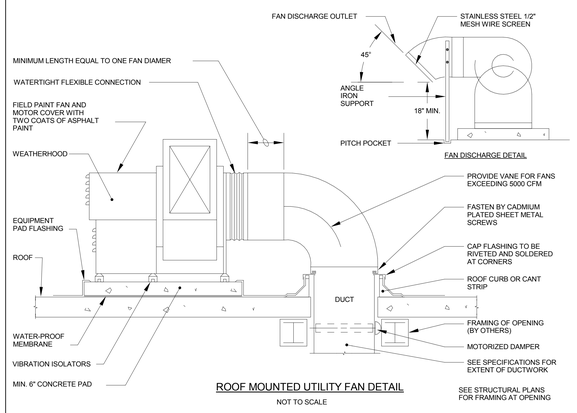
LEGEND	
1	RATED SHAFT WALL
2	3" MINIMUM AIR GAP
3	DUCT
4	1st LAYER FIREMASTER DUCT WRAP
5	3" OVERLAP
6	BANDING



GREASE DUCT HORIZONTAL OR VERTICAL GREASE DUCT SHAFT TRANSITION INSTALLATION DETAIL
NOT TO SCALE



KITCHEN ROOF EXHAUST FAN DETAIL
NOT TO SCALE



ROOF MOUNTED UTILITY FAN DETAIL
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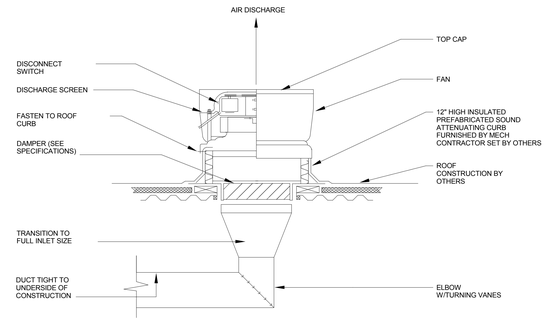

UPBLAST ROOF EXHAUST FAN DETAIL
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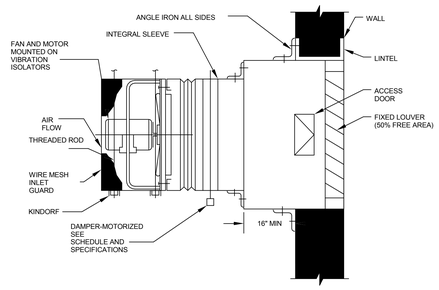

PROPELLER FAN DETAIL
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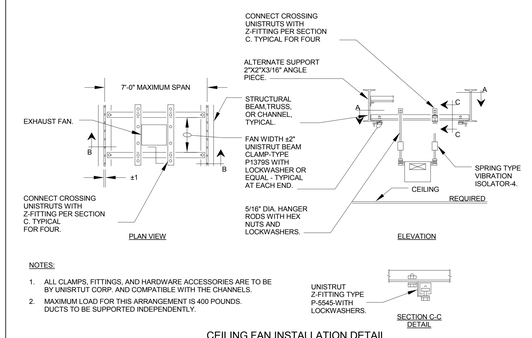
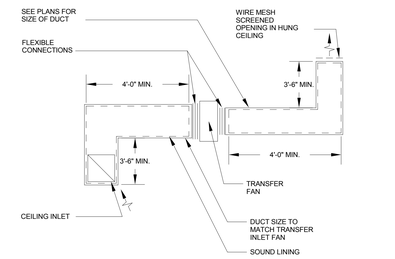


CEILING FAN INSTALLATION DETAIL
NOT TO SCALE



TYPICAL AIR TRANSFER FAN DETAIL
NOT TO SCALE

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Stantec Inc.

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EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

STATE OF NEW YORK · AZMI ZAHED-ATKINS · LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
3	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
MECHANICAL DETAILS 3

B-SCAN - DRAWING NUMBER
M-703.00

PAGE NUMBER
53 OF 57

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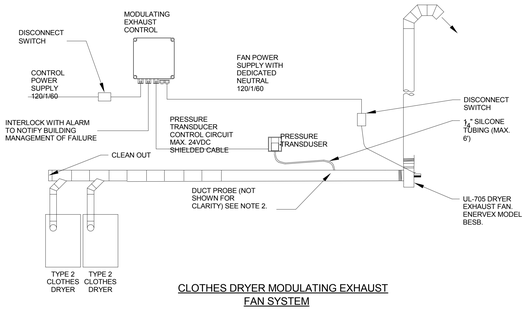
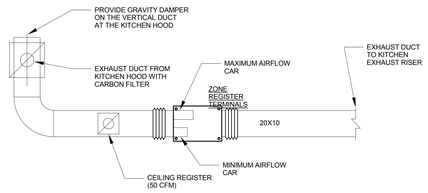
DEPT OF BLDGS 121191245 Job Number
E390468980504 Scan Code

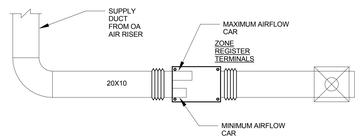
DRAWING NOTES:
1. WIRING INFORMATION IS SUITABLE FOR ENERVEX MDVS250.
2. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF FAN AND CONTROLS. DUCT PROBE LOCATION IS JOB SPECIFIC; CONTACT CHIMNEY DESIGN SOLUTIONS AT 800-685-7077.
3. FOLLOW EQUIPMENT MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION OF CLOTHES DRYERS.
4. FOLLOW VENT MANUFACTURER'S RECOMMENDATIONS FOR CORRECT INSTALLATION METHODS.
5. FOLLOW ALL PERTINENT NATIONAL, STATE, AND LOCAL CODES FOR PROPER INSTALLATION OF EQUIPMENT AND MATERIAL.



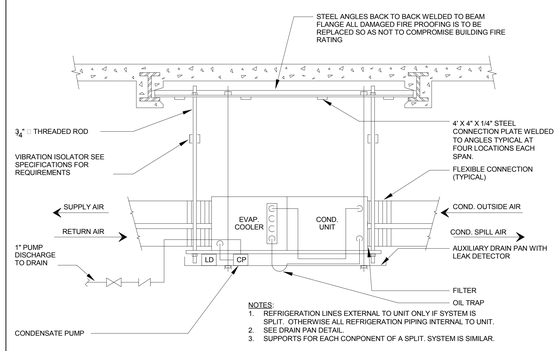
CLOTHES DRYER MODULATING EXHAUST FAN SYSTEM
NOT TO SCALE



ZONE REGISTER TERMINALS: KX EXHAUST
NOT TO SCALE

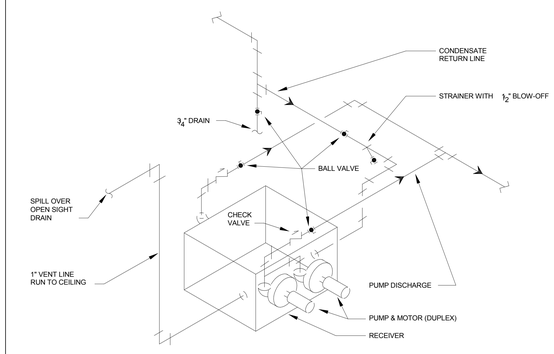


ZONE REGISTER TERMINALS: OA SUPPLY
NOT TO SCALE



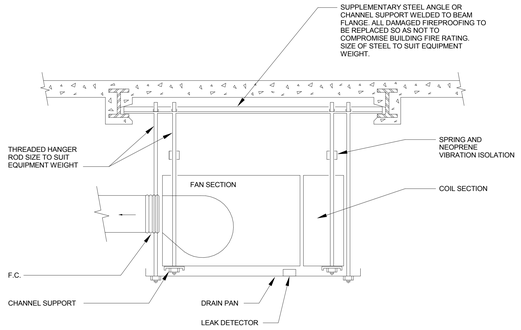
NOTES:
1. REFRIGERATION LINES EXTERNAL TO UNIT ONLY IF SYSTEM IS SPLIT. OTHERWISE ALL REFRIGERATION PIPING INTERNAL TO UNIT.
2. SEE DRAIN PAN DETAIL.
3. SUPPORTS FOR EACH CONPONENT OF A SPLIT. SYSTEM IS SIMILAR.

CEILING HUNG PACKAGED AIR COOLED A.C. UNIT DETAIL
NOT TO SCALE

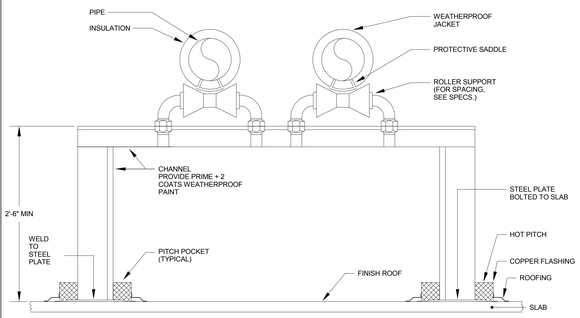


NOTE: G.C. SHALL PROVIDE 2" HOUSE KEEPING PAD FOR PUMP.

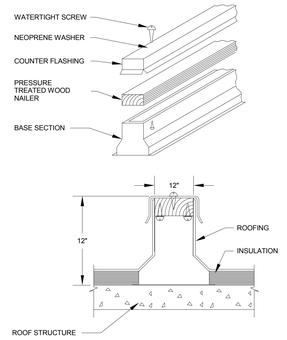
DUPLEX CONDENSATE PUMP AND RECEIVER DETAIL
NOT TO SCALE



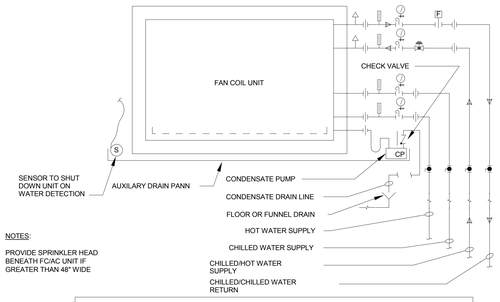
HVAC EQUIPMENT HANGING DETAIL
NOT TO SCALE



PIPING SUPPORT ON ROOF
SCALE: NONE



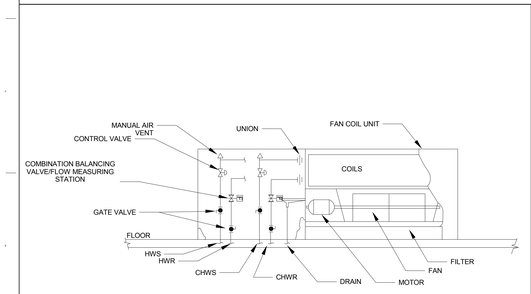
EQUIPMENT ROOF RAIL DETAIL
NOT TO SCALE



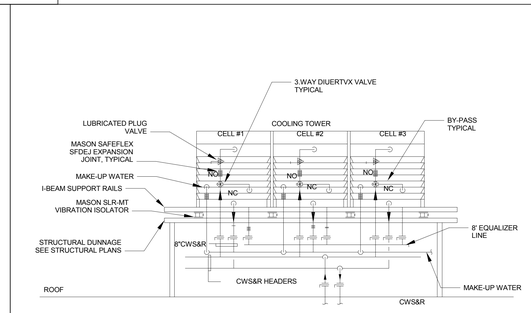
NOTES:
PROVIDE SPRINKLER HEAD BENEATH FC/AC UNIT IF GREATER THAN 48" WIDE

KEY			
	BALL VALVE		AIR VENT
	PRESSURE GAUGE WITH STOP-CLOCK		THERMOMETER
F	SPRING LOADED FLOW CONTROL VALVE		2-WAY CONTROL VALVE
	UNION	S	LEAK DETECTION SENSOR

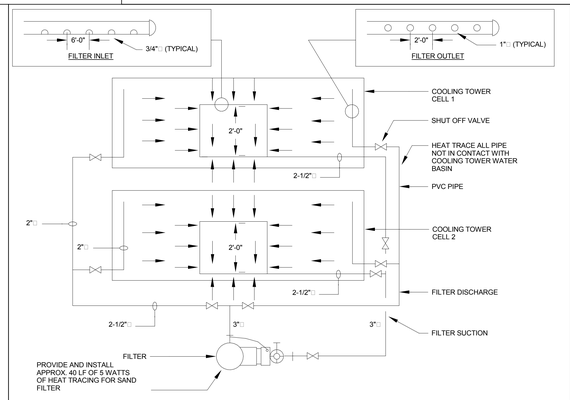
TYPICAL 4 PIPE FAN COIL UNIT PIPING
NOT TO SCALE



CONSOLE 4-PIPE FAN COIL UNIT DETAIL
FOUR PIPE
NTS



COOLING TOWER MULTI-CELL PIPING DIAGRAM BY PASS
NOT TO SCALE



TOWER SUMP FILTER PIPING DETAIL
NOT TO SCALE

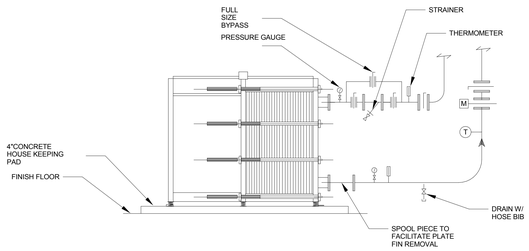
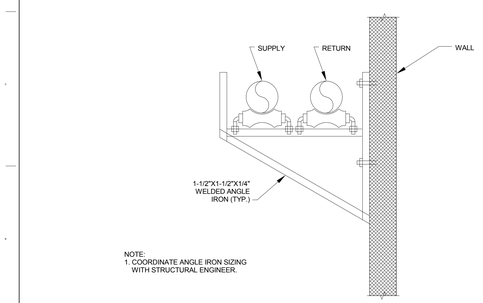


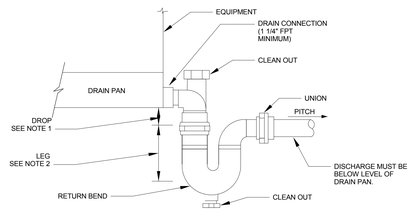
PLATE AND FRAME HEAT EXCHANGE PIPING DETAIL & INDIRECT FIRED DOMESTIC HOT WATER HEATERS
NOT TO SCALE

NOTES:
1. PROVIDE INSULATED JACKET AROUND PLATE FRAME HEAT EXCHANGER. ALL HOT & COLD PIPING TO BE INSULATED.
2. PROVIDE SPRING ISOLATORS WITH 2" DEFLECTION PLATE FRAME H.X.
3. HEAT EXCHANGERS TO BE 300 PSI RATED
4. PROVIDE 4-WAY MOTORIZED VALVE COMPLETE WITH AUTOMATIC BACKWASH SYSTEM CONTROL PANEL FOR EACH HEAT EXCHANGER ON PRIMARY SIDE ONLY. MANUFACTURER: WSA ENGINEERED SYSTEMS VALVE SIZE: 15", 460V/3PH/60HZ ACTUATOR POWER SUPPLY 110/1PH/60HZ CONTROL PANEL VOLTAGE. 4-WAY VALVES SHALL BE RATED FOR 300 PSI.
5. INSTALL 4-WAY MOTORIZED VALVES ON PFHX-6-1 AND PFHX-39-1 ONLY.



NOTE:
1. COORDINATE ANGLE IRON SIZING WITH STRUCTURAL ENGINEER.

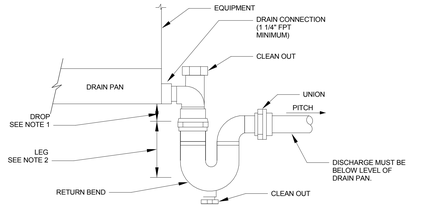
PIPING SUPPORT FROM VERTICAL WALL DETAIL
NOT TO SCALE



NOTES:
1. 1" MIN. DROP REQUIRED USE OF STANDARD FITTINGS SHOWN EXCEEDS THIS MINIMUM.
2. X/2+1"=LEG FOR DRAW THRU UNIT WHERE X= NEGATIVE STATIC PRESSURE AT FAN INLET (MIN. 5")
3. ADD STRUCTURAL STEEL TO RAISE THE BOTTOM OF THE UNIT TO ACCOMMODATE TRAP HEIGHT.
4. PITCH DRAIN FOR PROPER RUN-OFF AND DISCHARGE TO APPROVED RECEPTACLE.
5. SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
6. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.

PIPE SIZE	MAX. COOLING LOAD
¾"	<=20 TONS
1"	20 TONS TO 40 TONS
1 ¼"	40 TONS TO 90 TONS
1 ½"	90 TONS TO 125 TONS
2"	>125 TONS TO 250 TONS

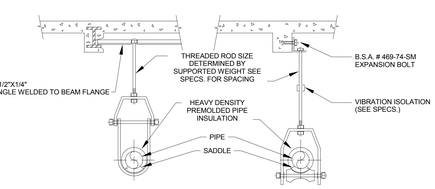
TYPICAL CONDENSATE DRAIN PIPING DETAIL
(BLOW THROUGH CONFIGURATION)
NOT TO SCALE



NOTES:
1. 1" MIN. DROP REQUIRED USE OF STANDARD FITTINGS SHOWN EXCEEDS THIS MINIMUM.
2. X/2+1"=LEG FOR DRAW THRU UNIT WHERE X= NEGATIVE STATIC PRESSURE AT FAN INLET (MIN. 5")
3. ADD STRUCTURAL STEEL TO RAISE THE BOTTOM OF THE UNIT TO ACCOMMODATE TRAP HEIGHT.
4. PITCH DRAIN FOR PROPER RUN-OFF AND DISCHARGE TO APPROVED RECEPTACLE.
5. SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
6. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.

PIPE SIZE	MAX. COOLING LOAD
¾"	<=20 TONS
1"	20 TONS TO 40 TONS
1 ¼"	40 TONS TO 90 TONS
1 ½"	90 TONS TO 125 TONS
2"	>125 TONS TO 250 TONS

TYPICAL CONDENSATE DRAIN PIPING DETAIL
(DRAW THROUGH CONFIGURATION)
NOT TO SCALE



TYPICAL PIPE HANGING DETAIL
NOT TO SCALE

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Stantec Inc.

VERTICAL TRANSPORTATION
Van Deusen & Associates

CODE CONSULTING
Code Consultants, Inc.

LOGISTICS CONSULTANT
Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 1 of 1975
Date: 07/24/2017
NYC Development Hub

KEYPLAN

SEAL

STATE OF NEW YORK
AZMI ZAHED ATKINS
LICENSED PROFESSIONAL ENGINEER
026957

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REVS2
4	10 APR 2017	ISSUED TO DOB Rev1
3	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
MECHANICAL DETAILS 4

B-SCAN - DRAWING NUMBER
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PAGE NUMBER
54 OF 57

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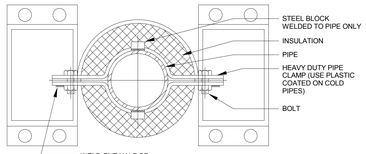
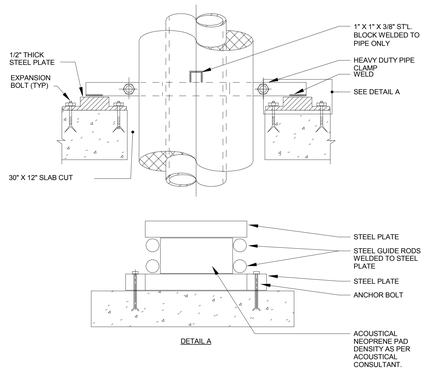
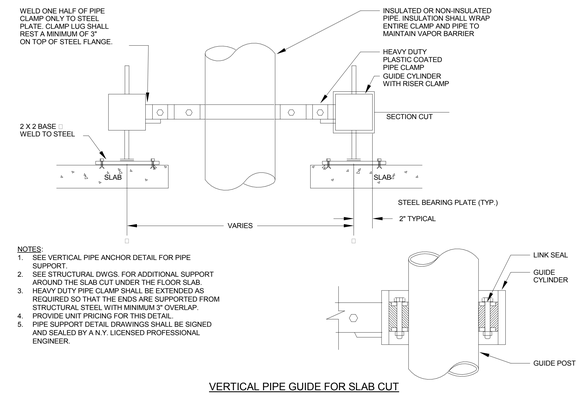




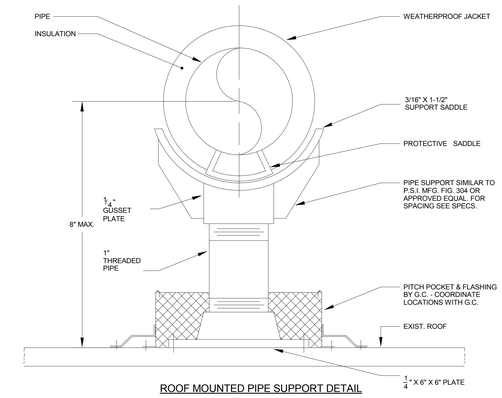
NOTES:
1. SEE VERTICAL PIPE GUIDE DETAIL FOR PIPE ALIGNMENT.
2. SEE STRUCTURAL DWGS. FOR ADDITIONAL SUPPORT AROUND THE SLAB CUT UNDER THE FLOOR SLAB.
3. NEOPRENE PADS SHALL BE AS PER ACOUSTICAL CONSULTANT.
4. SUPPORT DETAIL SHOP DRAWINGS WITH CALCULATIONS SHALL BE SUBMITTED FOR REVIEW BY STRUCTURAL ENGINEER.
5. HEAVY DUTY PIPE CLAMP SHALL BE EXTENDED AS REQUIRED WHERE THE END OR ENDS ARE SUPPORTED FROM STRUCTURAL STEEL.
6. PROVIDE UNIT PRICING FOR THIS DETAIL.
7. PIPE SUPPORT DETAIL DRAWINGS SHALL BE SIGNED AND SEALED BY A.N.Y. LICENSED PROFESSIONAL ENGINEER.

VERTICAL PIPE SUPPORT
NOT TO SCALE



NOTES:
1. SEE VERTICAL PIPE ANCHOR DETAIL FOR PIPE SUPPORT.
2. SEE STRUCTURAL DWGS. FOR ADDITIONAL SUPPORT AROUND THE SLAB CUT UNDER THE FLOOR SLAB.
3. HEAVY DUTY PIPE CLAMP SHALL BE EXTENDED AS REQUIRED SO THAT THE ENDS ARE SUPPORTED FROM STRUCTURAL STEEL WITH MINIMUM 3" OVERLAP.
4. PROVIDE UNIT PRICING FOR THIS DETAIL.
5. PIPE SUPPORT DETAIL DRAWINGS SHALL BE SIGNED AND SEALED BY A.N.Y. LICENSED PROFESSIONAL ENGINEER.

VERTICAL PIPE GUIDE FOR SLAB CUT
NOT TO SCALE



ROOF MOUNTED PIPE SUPPORT DETAIL
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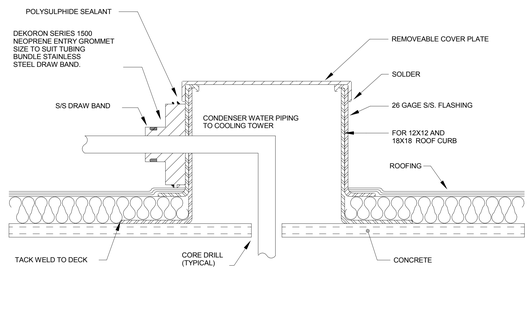
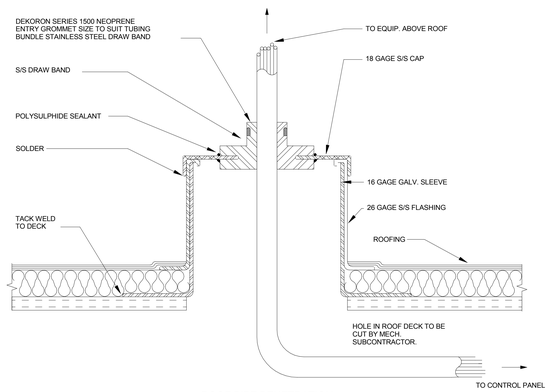


CURB FOR PIPE PENETRATIONS THROUGH ROOF
NOT TO SCALE



ROOF PIPE PENETRATION
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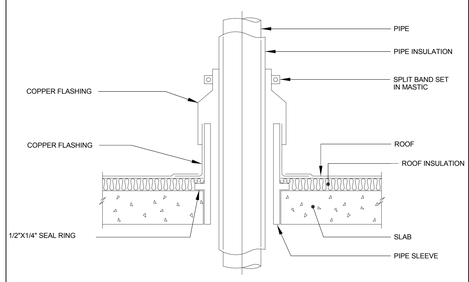
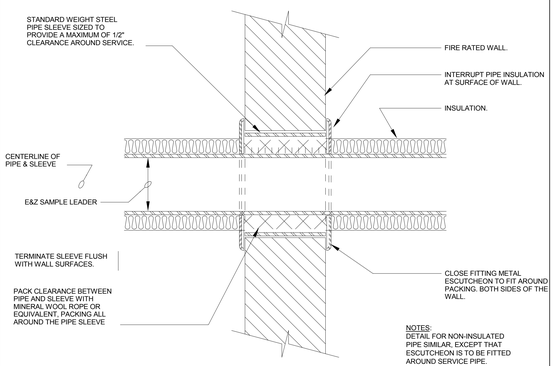
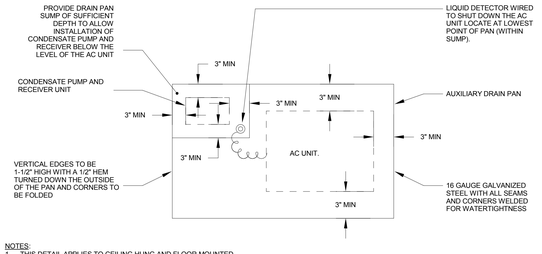


DETAIL OF PIPE PENETRATION THROUGH ROOF
NOT TO SCALE

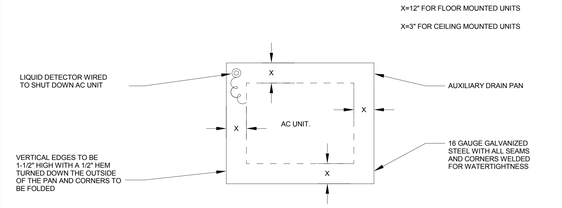


DETAIL OF PIPE THROUGH REQUIRED RATED PARTITION
NOT TO SCALE



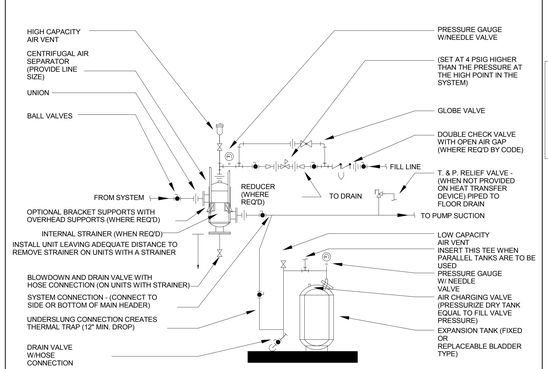
NOTES:
1. THIS DETAIL APPLIES TO CEILING HUNG AND FLOOR MOUNTED AC UNITS WITH SEPARATE CONDENSATE PUMP/RECEIVER UNITS.
2. COORDINATE DIMENSIONS OF DRAIN PAN AND SUMP WITH THE ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE AC UNIT, PUMP AND PIPING.
3. FOR CEILING INSTALLATIONS, SUPPORT AC UNIT, CONDENSATE PUMP/RECEIVER UNIT, AND DRAIN PAN INDEPENDENTLY FROM STRUCTURE OVERHEAD.
4. PROVIDE 3/4" PLUGGED DRAIN AT LOW POINT.
5. PROVIDE AUXILIARY CONTACT ON LIQUID DETECTOR FOR INTERFACE WITH THE BUILDING MANAGEMENT SYSTEM WHEN SPECIFIED.

DETAIL OF AUXILIARY DRAIN PAN FOR CEILING HUNG AC UNITS WITH EXTERNAL CONDENSATE PUMP
NOT TO SCALE

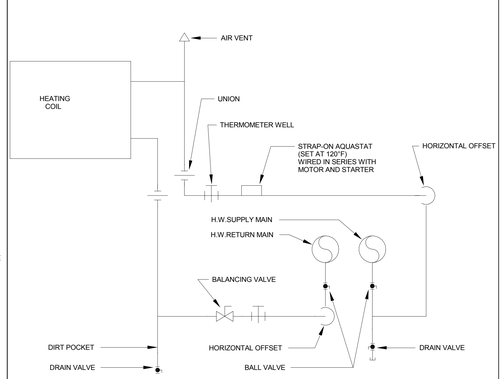


NOTES:
1. THIS DETAIL APPLIES TO-
-FLOOR MOUNTED OR CEILING HUNG AC UNITS WITH INTEGRAL CONDENSATE DISCHARGE PUMPS.
-FLOOR MOUNTED OR CEILING HUNG AC UNITS WITH GRAVITY FLOW CONDENSATE DRAIN PIPING.
2. FOR CEILING INSTALLATIONS, SUPPORT AC UNIT AND DRAIN PAN INDEPENDENTLY FROM STRUCTURE OVERHEAD.
3. PITCH DRAIN PAN TO LIQUID DETECTOR. PROVIDE 3/4" PLUGGED DRAIN AT LOW POINT.
4. PROVIDE AUXILIARY CONTACT OR LIQUID DETECTOR FOR INTERFACE WITH THE BUILDING MANAGEMENT SYSTEM WHEN SPECIFIED.

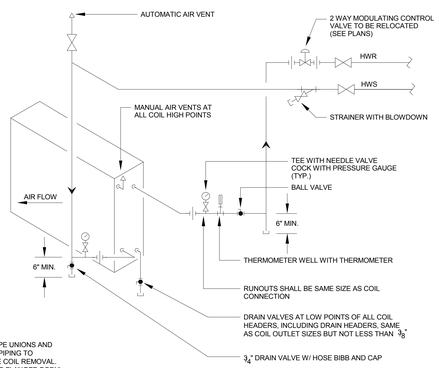
TYPICAL DETAIL OF AUXILIARY DRAIN PAN FOR AC UNITS WITH INTERNAL CONDENSATE PUMP
NOT TO SCALE



AIR SEPARATOR AND EXPANSION TANK DETAIL - (VERTICAL FLOOR MOUNTED - REPLACEABLE BLADDER)
NOT TO SCALE

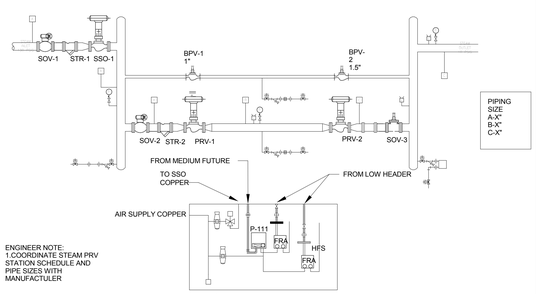


HOT WATER CABINET HEATER PIPING DETAIL
NOT TO SCALE



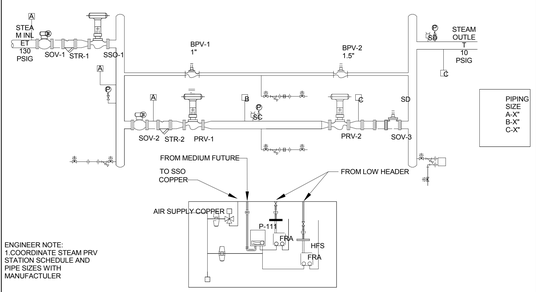
NOTES:
1. LOCATE PIPE UNIONS AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
2. UNIONS (OR FLANGED BODY) REQUIRED TO PERMIT REMOVAL OF CONTROL VALVES.
3. PROVIDE SIMILAR PIPING ARRANGEMENTS ON EACH SIDE FOR TWO SECTION WIDE COIL ASSEMBLY.

HOT WATER HEAT COIL PIPING DETAIL WITH 2-WAY CONTROL VALVE
NOT TO SCALE



ENGINEER NOTE:
1.COORDINATE STEAM PRV STATION SCHEDULE AND PIPE SIZES WITH MANUFACTULER

STEAM PRV STATION
(DOUBLE REDUCTION SINGLE FLOW)



ENGINEER NOTE:
1.COORDINATE STEAM PRV STATION SCHEDULE AND PIPE SIZES WITH MANUFACTULER

STEAM PRV STATION
(DOUBLE REDUCTION SINGLE FLOW)

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CODE CONSULTING
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LOGISTICS CONSULTANT
Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING
Philip Habib & Associates

EXTERIOR WALL CONSULTANT
WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

Azmi Zahed-Atkins, RA
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

STATE OF NEW YORK — AZMI ZAHED-ATKINS — LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	14 APR 2017	ISSUED TO DOB Rev01
1	10 FEB 2017	ISSUED TO DOB

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MECHANICAL DETAILS 5

B-SCAN - DRAWING NUMBER
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PAGE NUMBER
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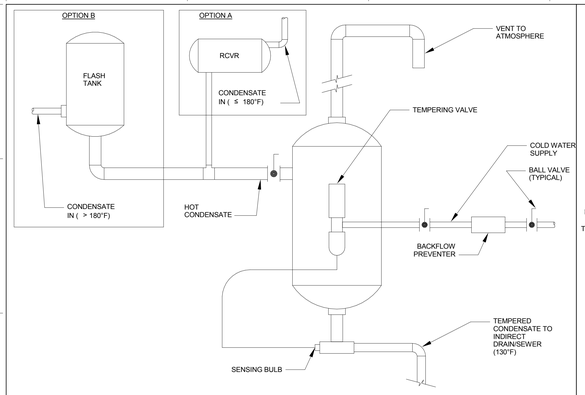
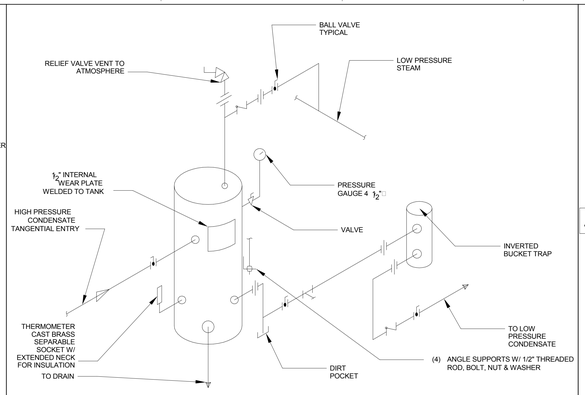


CONDENSATE COOLING UNIT DETAIL

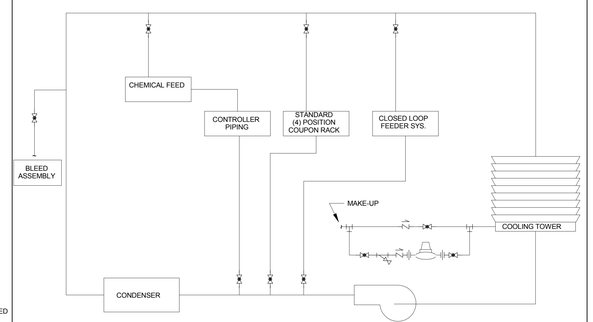
(ARMSTRONG MODEL CC-25 & CC-40)

NOT TO SCALE



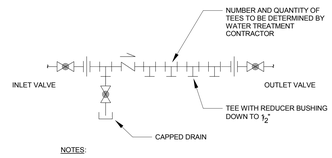
CONDENSATE FLASH TANK DETAIL

NOT TO SCALE



WATER TREATMENT PIPING SYSTEM DETAIL

NOT TO SCALE

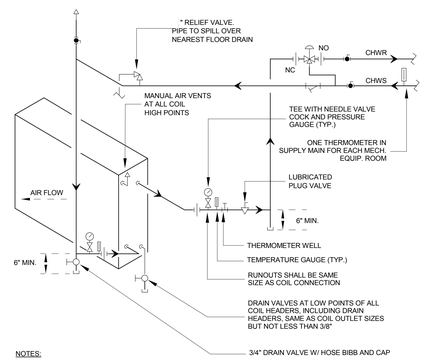


NOTES:

1. ALL FITTINGS ARE TO BE STAINLESS STEEL.
2. MINIMUN DIAMETER PIPE TO USE IS 3/4", HOWEVER LARGER IS RECOMMENDED--ONCE ANNUALLY REMOVE AND CLEAN.
3. USE PROPER FITTINGS AS SYSTEM PRESSURE REQUIRES.
4. USE PROPER PROTECTION WHENEVER REMOVING THIS PIPE SECTION--CHEMICAL RESIDUAL AND BIO-HAZARD ARE WITHIN.
5. USE ONLY TEFLON TAPE PIPE THREAD SEALANT.
6. IT IS RECOMMENDED ALL PIPING OUT OF THIS FEEDER TO THE SYSTEM BE STAINLESS STEEL.

WATER TREATMENT CHEMICAL FEED STATION DETAIL

NOT TO SCALE

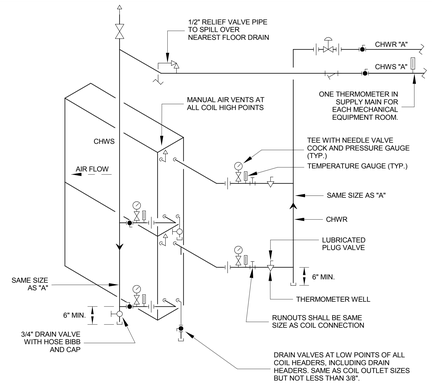


NOTES:

1. LOCATE PIPING UNIONS AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
2. UNIONS (OR FLANGED BODY) REQUIRED TO PERMIT REMOVAL OF CONTROL VALVES.
3. PROVIDE SIMILAR PIPING ARRANGEMENTS ON EACH SIDE FOR TWO SECTION WIDE COIL ASSEMBLY.
4. ON LINES 2" AND SMALLER, LOCATE THERMOMETER WELLS IN PIPE BELOW.

CHILLED WATER COOLING COIL PIPING DETAIL - ONE HIGH

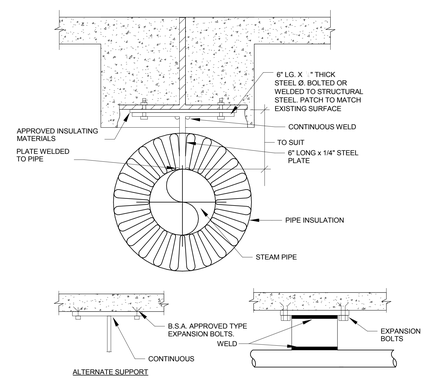
NOT TO SCALE



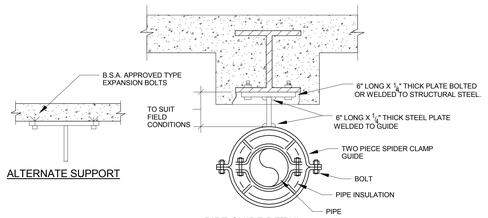
1. PROVIDE SIMILAR PIPING FOR 3 OR MORE COILS HIGH.
2. ON LINE 2" AND SMALLER, LOCATE THERMOMETER WELLS IN PIPE BELOW.
3. LOCATE PIPE UNIONS AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
4. UNIONS (OR FLANGED BODY) REQUIRED TO PERMIT REMOVAL OF CONTROL VALVE.
5. PROVIDE SIMILAR PIPING ARRANGEMENTS ON EACH SIDE FOR TWO SECTION WIDE COIL ASSEMBLY.

CHILLED WATER COOLING COIL PIPING DETAIL- TWO HIGH

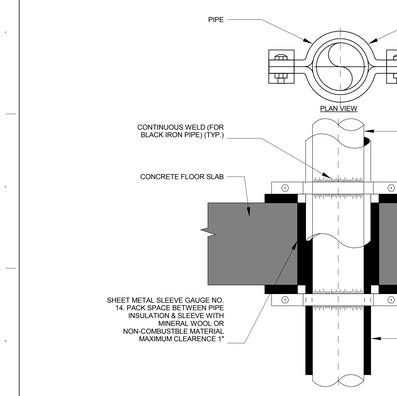
NOT TO SCALE



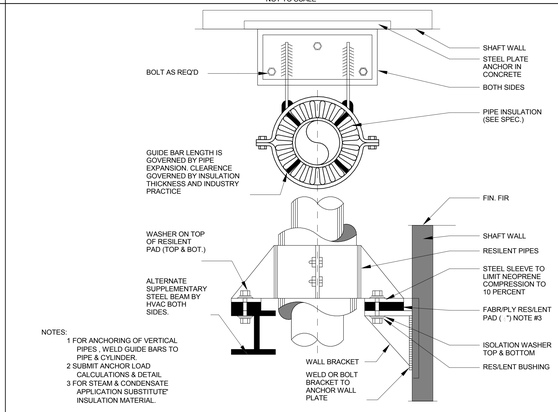
PIPE ANCHOR DETAIL



PIPE GUIDE DETAIL

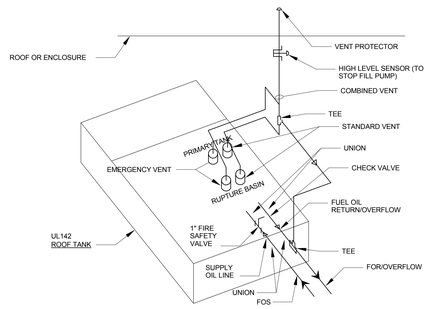


PIPE ANCHOR DETAIL - (3" ' & BELOW)



NOTES:
1 FOR ANCHORING OF VERTICAL PIPES , WELD GUIDE BARS TO PIPE & CYLINDER.
2 SUBMIT ANCHOR LOAD CALCULATIONS & DETAIL
3 FOR STEAM & CONDENSATE APPLICATION SUBSTITUTE INSULATION MATERIAL.

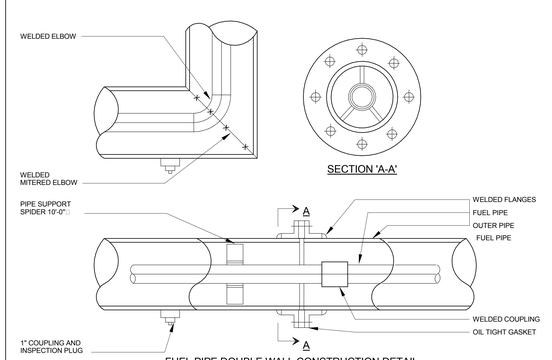
VERTICAL RISER GUIDE & ANCHOR (4"Ø & ABOVE)



NOTE:
1. VENT LINES SIZED FOR GAS FLOW
2. OVERFLOW LINE SIZED FOR PUMP RATE

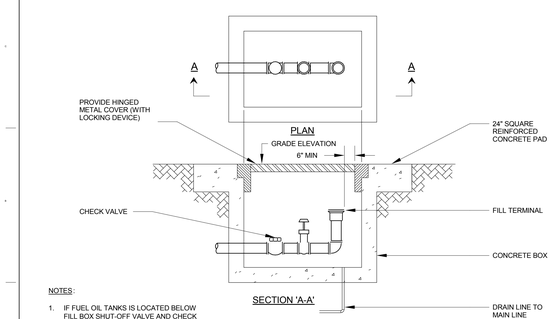
NYC DAY TANK PIPING DETAIL

NOT TO SCALE



FUEL PIPE DOUBLE WALL CONSTRUCTION DETAIL

NOT TO SCALE

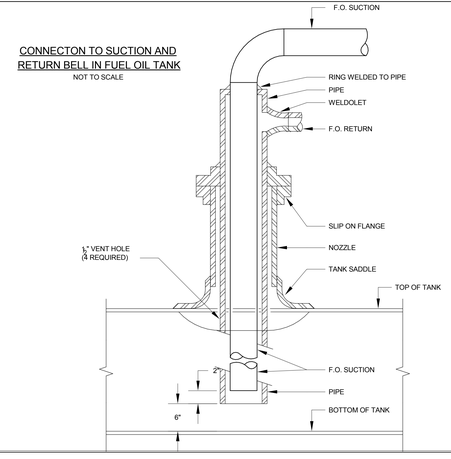


NOTES:

1. IF FUEL OIL TANKS IS LOCATED BELOW FILL BOX SHUT-OFF VALVE AND CHECK SHOULD BE DELETED.
2. TYPICAL FOR EACH TANK.

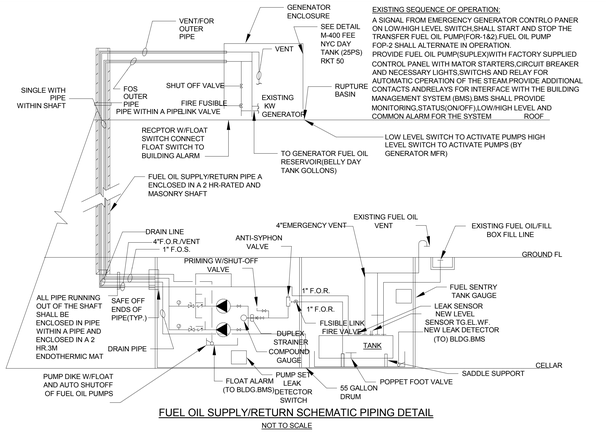
FUEL FILL BOX DETAIL

NOT TO SCALE



CONNECTON TO SUCTION AND RETURN BELL IN FUEL OIL TANK

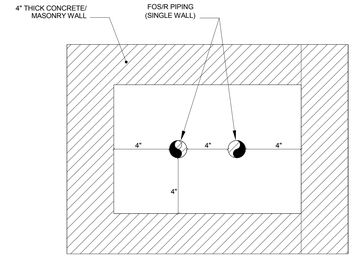
NOT TO SCALE



EXISTING SEQUENCE OF OPERATION:
A SIGNAL FROM EMERGENCY GENERATOR CONTRLO PANER ON LOW/HIGH LEVEL SWITCH,SHALL START AND STOP THE TRANSFER FUEL OIL PUMP(FOR-1&2).FUEL OIL PUMP FOP-2 SHALL ALTERNATE IN OPERATION.
PROVIDE FUEL OIL PUMP(SUPLEX)WITH FACTORY SUPPLIED CONTROL PANEL WITH MATOR STARTERS,CIRCUIT BREAKER AND NECESSARY LIGHTS,SWITCHS AND RELAY FOR AUTOMATIC CPERATION OF THE STEAM.PROVIDE ADDITIONAL CONTACTS ANDRELAYS FOR INTERFACE WITH THE BUILDING MANAGEMENT SYSTEM (BMS).BMS SHALL PROVIDE MONITORING,STATUS(ON/OFF),LOW/HIGH LEVEL AND COMMON ALARM FOR THE SYSTEM

FUEL OIL SUPPLY/RETURN SCHEMATIC PIPING DETAIL

NOT TO SCALE



VERTICAL FUEL OIL RISER SHAFT DETAIL

NOT TO SCALE

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Van Deusen & Associates

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Philip Habib & Associates

EXTERIOR WALL CONSULTANT

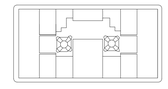
WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
Buildings
APPROVED
Under Directive 1 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



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AZMI ZAHED ATKINS
LICENSED PROFESSIONAL ENGINEER

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5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
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MECHANICAL DETAILS 6

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PAGE NUMBER

56 OF 57

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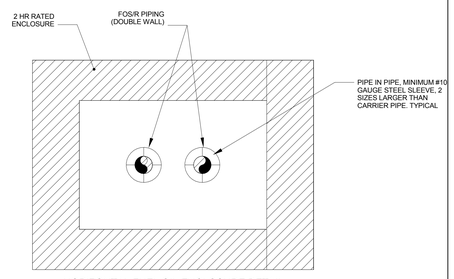
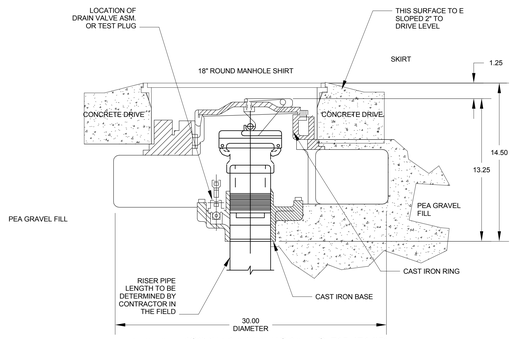


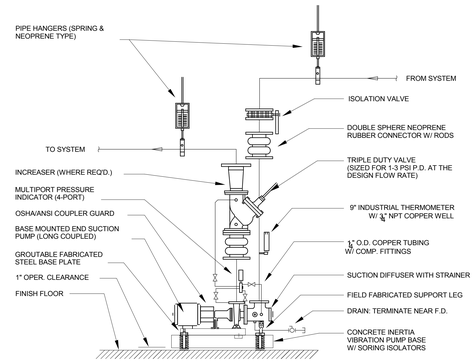
HORIZONTAL FUEL OIL ENCLOSURE DETAIL

NOT TO SCALE



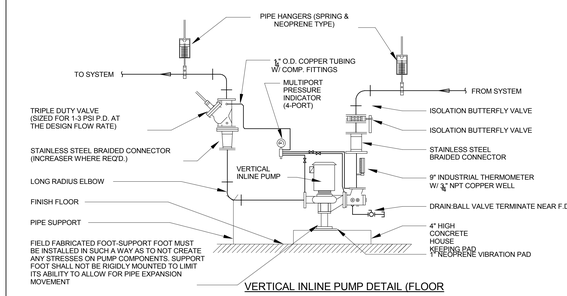
FUEL FILL BOX (MFR EBWM MODEL NO. 715-474-65)

NOT TO SCALE



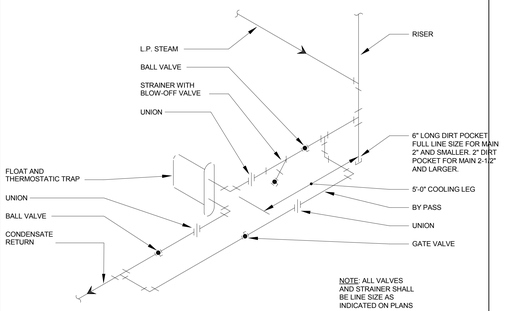
END SUCTION PUMP DETAIL WITH LONG RADIUS ELBOW (BASE MOUNTED ON A CONCRETE INERTIA BASE)

NOT TO SCALE



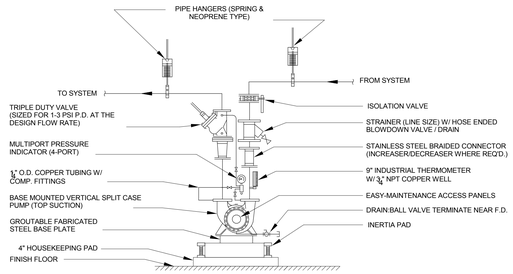
VERTICAL INLINE PUMP DETAIL (FLOOR MOUNTED ON A HOUSEKEPING PAD)

NOT TO SCALE



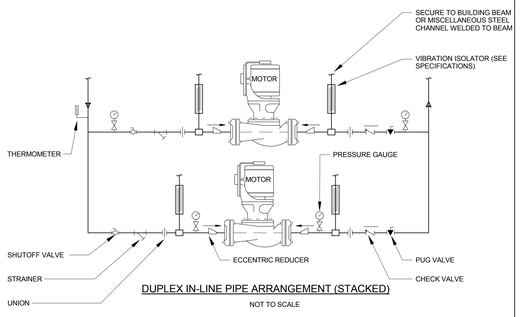
LOW PRESSURE STEAM DRIP TRAP RIG

NOT TO SCALE



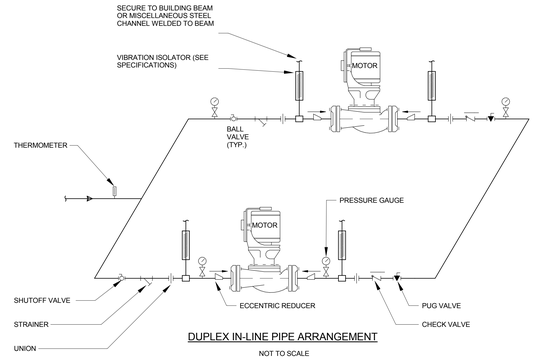
VERTICAL SPLIT CASE (SIDE SUCTION) PUMP DETAIL (BASE MOUNTED ON A HOUSEKEEPING PAD)

NOT TO SCALE



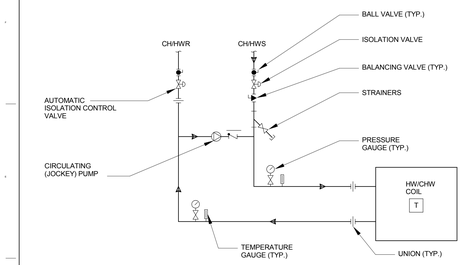
DUPLEX IN-LINE PIPE ARRANGEMENT (STACKED)

NOT TO SCALE



DUPLEX IN-LINE PIPE ARRANGEMENT

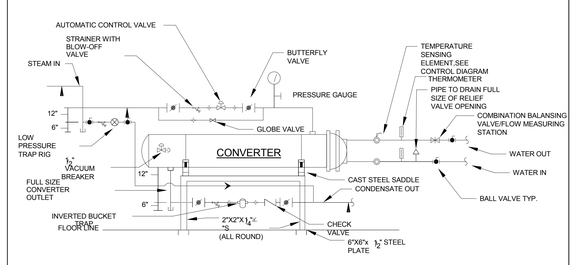
NOT TO SCALE



1. JOCKEY PUMP TO START WHEN AIR TEMPERATURE ACROSS COIL DROPS TO 40°F AND THERE IS NO CALL FOR MAIN LOOP WATER FLOW.
2. AUTOMATIC ISOLATION/CONTROL VALVE TO CLOSE DURING JOCKEY PUMP OPERATION.
3. SUPPLY SIDE ISOLATION VALVE TO REMAIN OPEN DURING JOCKEY PUMP OPERATION.

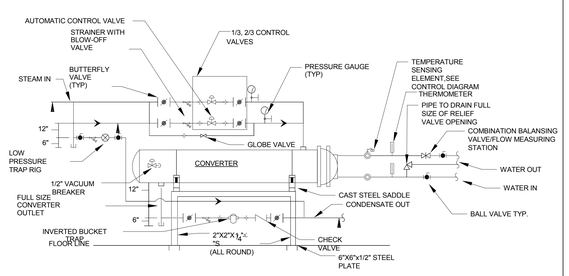
FREEZE PROTECTION PUMP DETAIL

NOT TO SCALE



STEAM TO WATER CONVERTER PIPING DETAIL

NOT TO SCALE



STEAM TO WATER CONVERTER PIPING DETAIL (1/3-2/3 CONTROL)

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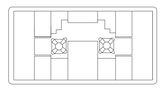

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INSPECTIONS, PROGRESS INSPECTIONS, SPECIAL INSPECTIONS, AND TESTING OF PLUMBING SYSTEMS

1. THE FOLLOWING INSPECTIONS, TESTS, PROGRESS INSPECTIONS AND SPECIAL INSPECTIONS SHALL BE CONSIDERED PART OF THE CONTRACT WORK.
2. UPON COMPLETION OR PARTIAL COMPLETION OF THE PERMITTED PLUMBING WORK, INSPECTIONS, PROGRESS INSPECTIONS, SPECIAL INSPECTIONS AND TESTS SHALL BE CONDUCTED BY APPROVED AGENCIES OR SPECIAL INSPECTORS QUALIFIED TO CONDUCT SUCH INSPECTIONS AND TESTS. INSPECTIONS AND PROGRESS INSPECTIONS SHALL BE PERFORMED IN COMPLIANCE WITH SECTION BC 110 OF THE NEW YORK CITY BUILDING CODE. SPECIAL INSPECTIONS SHALL BE PERFORMED IN COMPLIANCE WITH SECTIONS BC 1704 AND BC 1707 OF THE NEW YORK CITY BUILDING CODE FOR ALL PLUMBING SYSTEMS REGULATED BY THE NEW YORK CITY PLUMBING CODE, SECTIONS PC 107, PC 312, CHAPTERS 6, 7, 9 AND 11, THE NEW YORK CITY FUEL GAS CODE, SECTIONS FGC 107, AND FGC 406. REFER TO ARTICLE 116 OF CHAPTER 1 OF TITLE 28 OF THE ADMINISTRATIVE CODE FOR ADDITIONAL PROVISIONS RELATED TO INSPECTIONS.
3. SPECIAL INSPECTIONS OF PLUMBING SYSTEMS SHALL INCLUDE THE FOLLOWING AS APPLICABLE TO THE SYSTEM:
   A. VISUAL CERTIFICATION THAT REQUIRED COMPONENTS OF SUCH SYSTEMS ARE COMPLETE IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION GUIDELINES AND THE APPROVED CONSTRUCTION DOCUMENTS.
   B. SUPPORTS, HANGERS, SEISMIC BRACING, AND VIBRATION ISOLATION EQUIPMENT ARE PROPERLY SPACED AND ANCHORED TO SUPPORTING STRUCTURE.
   C. INSTALLATION OF REQUIRED SIGNAGE AND SAFETY INSTRUCTIONS.
   D. ELECTRICAL COMPONENTS ARE INSTALLED AND ELECTRICAL SIGN- OFF ISSUED.
   E. REQUIRED LABELING, OPERATIONAL INSTRUCTIONS AND SAFETY SIGNAGE PROPERLY POSTED.
   F. ALL RELATED SPECIAL INSPECTIONS FOR SUCH SYSTEMS ARE COMPLETE.
4. PROGRESS INSPECTIONS OF PLUMBING SYSTEMS SHALL INCLUDE THE FOLLOWING AS APPLICABLE TO THE SYSTEM:
   A. THROUGH-PENETRATION FIRE STOPPING.
5. TESTS AND INSPECTIONS OF PLUMBING SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING NEW YORK CITY BUILDING CODE AND NEW YORK CITY PLUMBING CODE SECTIONS:

TESTING ITEM	CODE/SECTION
UNDERGROUND INSPECTION	PC 107.2.1.1
ROUGH-IN INSPECTION	PC 107.2.1.2
ENERGY CODE INSPECTIONS	PC 107.2.1.3
DRAINAGE & VENT WATER TEST	PC 312.2
DRAINAGE & VENT AIR TEST	PC 312.3
DRAINAGE & VENT FINAL TEST	PC 312.4
WATER SUPPLY SYSTEM TEST	PC 312.5
WATER SERVICE PIPE	PC 312.5.1
GRAVITY SEWER TEST	PC 312.6
FORCED SEWER TEST	PC 312.7
STORM DRAINAGE SYSTEM TEST	PC 312.8
SHOWER LINER TEST	PC 312.9
INSPECTION AND TESTING OF BACKFLOW PREVENTION ASSEMBLIES	PC 312.10
GAS UNDERGROUND INSPECTION	FGC 107.1.1
GAS ROUGH-IN INSPECTION	FGC 107.1.2
GAS ENERGY CODE INSPECTIONS	FGC 107.1.3
REGULATORS AND VALVE ASSEMBLIES	FGC 406.1.5
EXPANSION JOINTS	FGC 406.3.1
GAS DISTRIBUTION PIPING	FGC 406.4
GAS LEAKAGE TEST	FGC 406.6

6. THE FOLLOWING IS A LIST OF ALL REQUIRED SPECIAL INSPECTIONS:

SPECIAL INSPECTION ITEM	CODE/SECTION
FUEL-GAS PIPING (WELDING)	BC 1704.19
SOIL PERCOLATION TEST - PRIVATE ON-SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS AND DETENTION FACILITIES INSTALLATION	BC 1704.21.1.2
PRIVATE ON-SITE STORM WATER DRAINAGE DISPOSAL SYSTEMS, AND DETENTION FACILITIES INSTALLATION	BC 1704.21.2
INDIVIDUAL ON-SITE PRIVATE SEWAGE DISPOSAL SYSTEMS INSTALLATION	BC 1704.22
SOIL PERCOLATION TEST - INDIVIDUAL ON-SITE PRIVATE SEWAGE DISPOSAL SYSTEMS	BC 1704.22
FIRE-RESISTANT PENETRATIONS AND JOINTS	BC 1704.27

SEISMIC SPECIAL INSPECTION ITEM	CODE/SECTION
MECHANICAL, PLUMBING, FUEL GAS, AND ELECTRICAL COMPONENTS	BC 1707.7
SEISMIC ISOLATION SYSTEM	BC 1707.8

7. THE FOLLOWING IS A LIST OF ALL REQUIRED PROGRESS INSPECTIONS:

PROGRESS INSPECTION ITEM	CODE/SECTION
FIRE-RESISTIVE RATED CONSTRUCTION	BC 110.3.4
ENERGY CODE COMPLIANCE INSPECTIONS	BC 110.3.5

8. UPON SATISFACTORY INSPECTION OF SERVICE EQUIPMENT AND THE SATISFACTION OF ALL THE REQUIREMENTS FOR SIGN-OFF, THE BUILDING DEPARTMENT SHALL ISSUE A CERTIFICATE OF COMPLIANCE AS APPLICABLE FOR THE FOLLOWING EQUIPMENT:
   A. FUEL-GAS-BURNING EQUIPMENT.
   B. HEATING SYSTEMS.
   C. BOILERS.

THE PLUMBING CONTRACTOR SHALL SECURE ALL CERTIFICATES OF COMPLIANCE FOR THE FOLLOWING SERVICE EQUIPMENT AND TRANSMIT SAME TO OWNER.

SYMBOL LIST

Symbol	Description
S	SANITARY OR WASTE ABOVE FLOOR (S OR W)
	SANITARY OR WASTE BELOW GROUND (S OR W)
PD	PUMP DISCHARGE PIPING (PD)
SD	SUMP PUMP DISCHARGE PIPING (SD)
ED	SEWAGE EJECTOR DISCHARGE PIPING (ED)
	VENT PIPING (V)
	EXISTING VENT PIPING (V)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	PIPING WITH ELECTRIC HEAT TRACING
	HOT WATER RECIRCULATION PIPING (HWR)
L	STORM DRAINAGE PIPING (L)
OF	OVERFLOW STORM PIPING (O)
G	GAS PIPING (G)

Symbol	Description	Symbol	Description
P	SANITARY STACK	G	GAS RISER
L	STORM LEADER		CONNECT NEW PIPING TO EXISTING
	HOT WATER BALANCING VALVE RIG	BFP	BACKFLOW PREVENTER (BFP)
	CLEANOUT (CO)	RPZ	REDUCED PRESSURE ZONE VALVE (RPZ)
	AREA, FLOOR OR ROOF DRAIN (AD, FD, RD)	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
	GAS VALVE		CHECK VALVE
	HOUSE TRAP		CLEANOUT DECK PLATE (CODP)
	PRESSURE REDUCING VALVE (PRV)		FLOOR SINK (FS)
	PRESSURE RELIEF VALVE		GATE VALVE
	SHOCK ABSORBER (SA)		BALL VALVE
	THERMOSTATIC MIXING VALVE ASSEMBLY (TMV)		NON-FREEZE WALL HYDRANT (NFWH)
TP	TRAP PRIMER (TP)		PRESSURE REGULATING VALVE
	DIRECTION OF FLOW		PUMP
	PIPE UP UNLESS OTHERWISE NOTED	S	SOLENOID VALVE
	PIPE DROP UNLESS OTHERWISE NOTED		PRESSURE GAUGE
	VALVED CAPPED OUTLET		VACUUM BREAKER (VB)
	NEW TEE CONNECTION		DROP OR RISE
	NEW ELBOW CONNECTION		TOP CONNECTION
	NEW CONNECTION POINT		BOTTOM CONNECTION
	STRAINER AND METER		CAPPED CONNECTION
	CIRCULATOR PUMP		TRAP
	UNION		BREAK
	VENT INCREASER		HOSE BIBB
	THERMOMETER (T)		STRAINER
	VALVE ON RISE		OS&Y VALVE WITH TAMPER SWITCH
	WATER-PROOF PIPE SLEEVE		OS&Y VALVE
	PIPE SLEEVE		SCHEMATIC PUMP
M	METER		VENT THROUGH ROOF (VTR)
F	FILTER		FRESH AIR INTAKE (FAI)

PLUMBING NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE DEMOLITION PLAN AND THE CONSTRUCTION PLANS, CONSTRUCTION PLANS AND INTENT SHALL GOVERN.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND FUNCTIONAL.
5. NOTIFY BUILDING MANAGER AT LEAST 48 HOURS BEFORE NEW WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED AT TENANT'S COST, AT DESIGNATED TIMES UNDER BUILDING MANAGER'S SUPERVISION AND ONLY WITH HIS APPROVAL.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
7. PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH RESPECT TO ALL OTHER TRADES, INCLUDING STRUCTURE AND CEILING HEIGHTS. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL LAYOUTS, INCLUDING CEILING HEIGHTS.
8. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
9. DRAWINGS ARE NOT TO BE SCALED.
10. CONTRACTOR SHALL COMPLY WITH ALL NEW YORK CITY BUILDING DEPARTMENT AND REGULATORY AGENCIES AND CODE REQUIREMENTS. BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
11. CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY COOPERATIVE CORPORATION AND OBSERVE THEIR PERMITTED HOURS FOR WORK.
12. CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS, SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
13. ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
14. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
15. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS WITH APPLICABLE CODES, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
16. UPON COMPLETION OF THE WORK, COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF ALL LABELS (AFTER ARCHITECT'S INSPECTION), CLEANING OF ALL THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, NEW AND OLD, IN THAT CONSTRUCTION AREA. MAINTENANCE MANUAL SHALL BE PROVIDED TO THE OWNER.
17. BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
18. AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE OWNER AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
19. VACUUM BREAKER AND RELATED PIPING SHALL BE INSTALLED BEHIND WALL; PROVIDE AN ACCESS PANEL TO THE VACUUM BREAKER. ALL EXPOSED PIPING AT THE PANTRY SHALL BE STEEL WITH CHROME PLATED FINISH.
20. CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR, STARTING FROM DATE OF FINAL COMPLETION OF ALL WORK.
21. PROVIDE CLEANOUTS FOR CHANGES IN DIRECTION FOR ALL SANITARY PIPING.
22. CONTRACTOR SHALL COORDINATE ALL FLOOR CORING SLEEVES AND FLOOR OPENINGS WITH STRUCTURAL DRAWINGS.
23. ALL EXPOSED PIPING PENETRATIONS THROUGH WALLS OR CEILINGS SHALL BE PROVIDED WITH APPROPRIATE FIRE RETARDANT SEALANT AND ESCUTCHEONS.
24. THE CONTRACTOR MUST MAKE ALLOWANCE FOR NECESSARY MODIFICATIONS TO EXISTING CONDITIONS TO PERFORM WORK.
25. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL EXISTING MAIN STACKS AND RISERS AND CONNECTIONS FROM EXISTING FIXTURES PRIOR TO NEW WORK.
26. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
27. COORDINATE THE NEW WATER, VENT AND SANITARY DRAINAGE PIPING CONNECTION TO THE EXISTING. THE CONTRACTOR SHALL MAKE THE NECESSARY PIPING MODIFICATIONS REQUIRED TO ACCOMMODATE THE CONNECTIONS.
28. PLUMBING CONTRACTOR SHALL OBTAIN THE BUILDINGS RULES AND REGULATIONS PRIOR TO BID AND SHALL MEET ALL REQUIREMENTS. NO EXTRA MONIES WILL BE AWARDED FOR ANY WORK PERFORMED AND MATERIAL PURCHASED THAT DOES NOT MEET THE REQUIREMENTS.
29. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
30. PLATFORMS, CURBS, AND FLASHINGS FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
31. PROVIDE DRAIN DRIP PANS UNDER ALL PLUMBING DRAINAGE PIPING TO BE INSTALLED WITHIN THE ELECTRICAL AND TELEPHONE EQUIPMENT, KITCHEN, PANTRY OR FOOD PREPARATION AND DINING ROOM CEILINGS. PROVIDE TELLTALE DRAINAGE PIPE AND SPILL OVER CLOSET FLOOR DRAIN OR SERVICE SINK.
32. PROVIDE ACCESS DOORS FOR SHUTOFF VALVES, SHOCK ABSORBERS, HOT WATER RETURN BALANCING RIGS, TRAP PRIMERS AND CLEANOUTS.
33. CONTRACTOR TO VERIFY SYSTEM WORKING PRESSURE AND PROVIDE PRESSURE REDUCING VALVES WHERE APPLICABLE.
34. CONTRACTOR TO PROVIDE SHOCK ABSORBERS PRIOR TO ALL QUICK CLOSING VALVES.

UNDERGROUND PLUMBING NOTES

1. ALL PIPE & FITTINGS LOCATED BELOW THE SLAB SHALL BE SUPPORTED FROM THE SLAB WITH GALVANIZED PIPE SUPPORTS (INCLUDING BUT NOT LIMITED TO RODS, HANGERS, SUPPORTS, NUTS, BOLTS, WASHERS, ETC).
2. ALL PIPE & SLEEVE ELEVATIONS FOR BELOW SLAB PIPING ARE TAKEN FROM TOP OF SLAB REFERENCE ELEVATION UNLESS OTHERWISE NOTED.
3. WHERE NOTED, EXTEND PIPING ABOVE SLAB FOR FUTURE EXTENSION. PROVIDE CLEANOUTS LOCATED APPROXIMATELY 2'-0" ABOVE THE TOP OF SLAB ON ALL SOIL, WASTE & LEADER PIPING. ALL SOIL, WASTE, VENT & LEADER PIPING SHALL BE PLUGGED WITH BLIND PLUGS.
4. PIPING ADJACENT TO COLUMNS AND STRUCTURAL WALLS SHALL BE INSTALLED TIGHT TO COLUMN AND WALLS WITH ADEQUATE SPACE FOR FUTURE EXTENSION.
5. PROVIDE LONG SWEEP BENDS AT ALL VERTICAL TO HORIZONTAL CHANGES IN DIRECTION (I.E. BASE OF STACKS, CLEAN-OUT DECK PLATES, ETC.) UTILIZE SHORT SWEEP BENDS ONLY WHERE REQUIRED DUE TO STRUCTURAL CONDITIONS.
6. REFER TO ARCHITECTURAL, STRUCTURAL, GEOTECHNICAL AND ELECTRICAL DRAWINGS AND DOCUMENTS FOR ADDITIONAL INFORMATION AND SLAB ELEVATIONS.
7. FINAL FLOOR DRAIN LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND INDICATED ON SHOP DRAWINGS.
8. WHERE PIPING IS FOUND TO BE SLOPED LESS THAN THE MINIMUM SPECIFIED, THE PIPING SHALL BE CORRECTED TO ATTAIN PROPER SLOPE PRIOR TO BACKFILLING.
9. COORDINATE LAYOUT OF PIPE AND TRENCHES WITH ALL TRADES.
10. COORDINATE TERMINATION CONDITION OF ALL FLOOR DRAINS AND CLEANOUTS WITH GENERAL CONTRACTOR FOR FINISHED FLOOR ELEVATIONS, SLOPED SLAB, WATERPROOFING & FINISHES.
11. ALL EXCAVATION AND BACKFILL SHALL BE BY THE PLUMBING CONTRACTOR - THE PLUMBING CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COORDINATION OF TRENCH ROUTING, SLOPE, ELEVATION, AND FIRM BEDDING MATERIAL REQUIRED FOR SETTING OF PIPING WITHIN TRENCH.

2014 NEW YORK CITY PLUMBING ENERGY CODE NOTES

1. CONDENSER WATER HEAT RECOVERY SHALL BE INSTALLED FOR HEATING OR RE-HEATING OF SERVICE HOT WATER, PROVIDED THAT THE FACILITY OPERATES 24 HOURS A DAY, WHERE THE TOTAL INSTALLED HEAT CAPACITY OF THE WATER-COOLED SYSTEMS EXCEEDS 6,000,000 BTU/H OF HEAT REJECTION AND THE DESIGN SERVICE WATER HEATING LOAD EXCEEDS 1,000,000 BTU/H AS REQUIRED BY SECTION C403.4.6 OF THE NEW YORK CITY ENERGY CODE.
2. SERVICE WATER-HEATING EQUIPMENT PERFORMANCE EFFICIENCY FOR WATER-HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 AS REQUIRED BY SECTION C404.2 OF THE NEW YORK CITY ENERGY CODE.
3. SERVICE WATER-HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS TO ALLOW A SETPOINT OF 110°F FOR EQUIPMENT SERVING DWELLING UNITS AND 90°F FOR EQUIPMENT SERVING OTHER OCCUPANCIES. THE OUTLET TEMPERATURE OF LAVATORIES IN PUBLIC FACILITY REST ROOMS SHALL BE LIMITED TO 110°F AS REQUIRED BY SECTION C404.3 OF THE NEW YORK CITY ENERGY CODE.
4. WATER-HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVICING NON-CIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT AS REQUIRED BY SECTION C404.4 OF THE NEW YORK CITY ENERGY CODE.
5. PIPING IN AUTOMATIC CIRCULATING HOT WATER AND HEAT-TRACED SYSTEMS SHALL BE INSULATED WITH NOT LESS THAN 1 INCH OF INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H x FT^2 x °F AS REQUIRED BY SECTION C404.5 OF THE NEW YORK CITY ENERGY CODE.
6. CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND AND READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS AS REQUIRED BY SECTION C404.6 OF THE NEW YORK CITY ENERGY CODE.

PLUMBING DEMOLITION NOTES

1. EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
3. VERIFY ALL GOVERNING DIMENSIONS, PIPE SIZES AND LOCATION OF THE PIPING AND EQUIPMENT TO BE REMOVED.
4. NOTIFY BUILDING MANAGER AT LEAST 48 HOURS BEFORE DEMOLITION WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES. RISER SHUT DOWNS SHALL BE PERFORMED AT TENANT'S COST, AT DESIGNATED TIMES UNDER BUILDING MANAGER'S SUPERVISION AND ONLY WITH HIS APPROVAL.
5. ALL FIXTURES, EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, RELOCATED, TURNED OVER TO THE TENANT OR SALVAGED AS DIRECTED BY THE ARCHITECT.
6. UPON COMPLETION OF ALL NEW WORK NO ABANDONED PIPING SHALL REMAIN.
7. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
8. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED AT THE SITE.
9. NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC. SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
10. REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING HEIGHTS.
11. UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED BY THE OWNER FOR SUCH PURPOSES.
12. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES ALL DEBRIS RESULTING FROM PLUMBING WORK. UNNECESSARY NOISE SHALL BE AVOIDED AT ALL TIMES AND NECESSARY NOISE SHALL BE REDUCED TO A MINIMUM.
13. WHERE THE WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, THEY SHALL BE MADE AT NIGHT OR AT TIMES AS WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE OF THE BUILDING.
14. THIS CONTRACTOR SHALL ARRANGE THE WORK CONTINUOUSLY, INCLUDING APPROVED BY ARCHITECT OVERTIME OF REQUIRED, TO ASSURE THAT SERVICES WILL BE SHUTDOWN AND CUT-INS ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO EXISTING WORK.
15. ANY AND ALL REQUIRED DEMOLITION WORK TO BE PERFORMED ABOVE EXISTING SUSPENDED CEILINGS AND FURRED OUT WALLS SHALL BE DONE AT THE TIME WHEN THE EXISTING CEILINGS AND FURRED OUT WALLS ARE REMOVED BY THE GENERAL CONTRACTOR.
16. ALL EQUIPMENT AND INSTALLATIONS MUST BE EQUAL TO THE STANDARDS OF THE BASE BUILDING. ANY DEVIATION FROM BUILDING STANDARDS WILL BE PERMITTED ONLY IF INDICATED OR SPECIFIED ON THESE PLANS AND SPECIFICATIONS, AND APPROVED.
17. TO INSURE CONTINUOUS OPERATIONS, MAKE ALL NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. ALL COSTS RESULTING FROM TEMPORARY SHUTDOWNS SHALL BE BORNE BY THE CONTRACTOR.

2014 NEW YORK CITY BUILDING DEPARTMENT FUEL GAS NOTES

1. THE FUEL GAS SYSTEM AND ALL ASSOCIATED EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2014 NEW YORK CITY BUILDING CODE, PLUMBING CODE, FUEL GAS CODE, FIRE CODE AND CURRENT REVISIONS.
2. GAS PIPING SYSTEM INSTALLATIONS AND ALL RELATED APPURTENANCES SHALL COMPLY WITH CHAPTER 4 OF THE 2014 NEW YORK CITY BUILDING CODE, CHAPTERS 1, 4, 6 AND APPENDICES E AND G OF THE NEW YORK CITY FUEL GAS CODE, AND NFPA #54-2006.
3. GAS METERS AND SERVICE PIPING SHALL BE INSTALLED AS PER FGC SECTION 401.1.1 AND APPENDIX E.
4. GAS PIPING SHALL BE SIZED AND INSTALLED AS PER FGC SECTION 402.
5. PIPING MATERIALS SHALL CONFORM WITH FGC SECTION 403.
6. PIPING SHALL BE INSTALLED IN LOCATIONS AS PER FGC SECTION 404.
7. PIPING SHALL NOT BE INSTALLED IN THE PROHIBITED LOCATIONS SPECIFIED IN FGC SECTION 404.1.
8. PIPING THROUGH A FOUNDATION WALL UNDERGROUND SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE WITH THE ANNULAR SPACE BETWEEN THE GAS PIPING AD THE SLEEVE SHALL BE SEALED AS PER FGC SECTION 404.4.
9. ABOVE-GROUND OUTDOOR GAS PIPING SHALL BE INSTALLED AS PER FGC SECTION 404.7.
10. GAS PIPING SHALL BE PROTECTED AGAINST CORROSION AS PER FGC SECTION 404.9.
11. UNDERGROUND GAS PIPING SHALL BE INSTALLED AT MINIMUM DEPTH OF 24 INCHES BELOW GRADE AS PER FGC SECTION 404.10.
12. GAS PIPING BENDS AND CHANGES IN DIRECTION SHALL COMPLY WITH FGC SECTION 405.
13. GAS PIPING SHALL BE INSPECTED, TESTED, AND PURGED AS PER FGC SECTION 406.
14. GAS PIPING SHALL BE SUPPORTED AS PER FGC SECTION 407 AND 415.
15. DRIP LEGS AND SLOPED GAS PIPING SHALL BE INSTALLED AS PER FGC SECTION 408.
16. SHUT OFF VALVES SHALL BE INSTALLED IN GAS PIPING AS PER FGC SECTION 409.
17. GAS PIPING SHALL BE INSTALLED WITH FLOW CONTROLS AS PER FC SECTION 410.
18. GAS APPLIANCE CONNECTIONS SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE WITH FGC SECTION 411.
19. ALL OUTDOOR GAS PIPING SHALL RECIEVE ONE (1) COAT OF TNEMEC 10-99 OR BENJAMIN MOORE IRON CLAD RETARDO RUST INHIBITIVE PRIMER PAINT AND ONE (1) FINISHED COAT OF SAFETY YELLOW PAINT.
20. NO GAS PIPING SHALL BE INSTALLED IN PUBLIC CORRIDORS UNLESS ENCASED IN FIRE RATED ENCLOSURE EQUAL TO THE RATING OF THE CORRIDOR OR IN ACCORDANCE WITH FGC SECTION 404.1.5.
21. COOKING APPLIANCES AND EQUIPMENT THAT IS DESIGNED FOR PERMANENT INSTALLATION SHALL BE TESTED AND INSTALLED AS PER FGC SECTION 623.
22. ALL OUTDOOR COOKING EQUIPMENT GAS SUPPLY PIPING SHALL COMPLY WITH FGC SECTIONS 404, 623.1, AND 627.1.
23. ALL OUTDOOR LPG AND NATURAL GAS FUELED PORTABLE OUTDOOR COOKING EQUIPMENT SHALL INSTALLED, MAINTAINED, AND OPERATED IN ACCORDANCE WITH NEW YORK CITY FIRE CODE SECTION 307.5.
24. ALL OUTDOOR GAS PIPING SHALL BE CONTINUOUSLY BONDED ELECTRICALLY TO AN EFFECTIVE GROUD-FAULT CURRENT PATH AS PER FGC SECTION 310.1.
25. THE NYC MEA NUMBER FOR OUTDOOR COOKING EQUIPMENT SHALL BE LISTED ON THE PROJECT'S ARCHITECTURAL PLANS.
26. WHERE PERMISSIBLE BY CODE, GAS SERVICE PIPING, GAS METERS, AND GAS BOOSTER PUMPS SHALL BE INSTALLED AS PER UTILITY COMPANY AND MANUFACTURER REQUIREMENTS.

NYC FLOOD HAZARD AREA NOTES

- FEMA FLOOD MAPS OBTAINED FROM FEMA FLOOD MAP SERVICE CENTER WEBSITE. DESIGN APPLICANT MAKES NO CLAIM AS TO THEIR ACCURACY.
- PROPERTY IS NOT IN SPECIAL FLOOD HAZARD AREA PER EFFECTIVE 2007 FIRM.

2014 NEW YORK CITY BUILDING DEPARTMENT PLUMBING NOTES

1. THE PLUMBING SYSTEMS (SANITARY, WASTE, VENT, DOMESTIC WATER DISTRIBUTION, ETC.) AND ALL ASSOCIATED EQUIPMENT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FULL REQUIREMENTS OF THE 2014 NEW YORK CITY BUILDING CODE, PLUMBING CODE, AND CURRENT REVISIONS.
2. ALL PLUMBING WORK SHALL COMPLY WITH CHAPTER 4 OF THE 2014 NEW YORK CITY BUILDING CODE AND CHAPTERS 1 THROUGH 13 AND APPENDICES A THROUGH G OF THE NEW YORK CITY PLUMBING CODE.
3. RODENT PROOFING SHALL COMPLY WITH PC304-RODENT PROOFING.
4. PROTECTION OF PIPING AS OUTLINED IN PC305-PROTECTION OF PIPES AND PLUMBING SYSTEM COMPONENTS, SHALL BE PROVIDED AS REQUIRED.
5. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC306-TRENCHING, EXCAVATION, AND BACKFILL.
6. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR WORKERS AS PER PC311-TOILET FACILITIES FOR WORKERS.
7. VERTICAL AND HORIZONTAL PIPING WILL BE HUNG AND SUPPORTED AS DIRECTED IN SPECIFICATIONS AND WITH THE FULL COMPLIANCE WITH SECTION PC308-PIPING SUPPORT.
8. THE INSTALLATION OF PLUMBING FIXTURES, FAUCETS AND FIXTURE FITTINGS SHALL BE IN ACCORDANCE WITH PC401 THROUGH PC429.
9. ALL CONNECTIONS BETWEEN DRAINAGE PIPING AND PLUMBING FIXTURES SHALL CONFORM TO SECTION PC405.
10. WATER HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH PC501 THROUGH PC505. THE HOT WATER DISTRIBUTION SYSTEM AND RETURN CIRCULATION SYSTEM SHALL BE INSTALLED AND COMPLY PER PC607.
11. THE WATER SUPPLY AND DISTRIBUTION SYSTEM SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH SECTIONS PC601 THROUGH PC614.
12. VALVES SHALL BE PROVIDED AS PER SECTION PC606.
13. BACKFLOW PROTECTION OF THE POTABLE WATER SUPPLY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION PC608.13 THROUGH PC608.16 AND PC301.4.
14. THE SANITARY DRAINAGE SYSTEM SHALL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC701 THROUGH PC715.
15. THE MATERIALS USED IN THE PLUMBING SYSTEM SHALL BE PROVIDED IN FULL ACCORDANCE WITH SECTION PC605-MATERIALS, JOINTS & CONNECTIONS AND SECTION PC702-MATERIALS.
16. SANITARY/WASTE AND VENT PIPING WITHIN SUDS PRESSURE ZONES SHALL BE COORDINATED WITH AND INSTALLED IN FULL COMPLIANCE WITH SECTION PC704.6.
17. ALL JOINTS IN SANITARY DRAINAGE PIPING SHALL CONFORM TO SECTION PC705.
18. ALL CONNECTIONS AND CHANGES IN DIRECTION BETWEEN DRAINAGE PIPING AND FITTINGS SHALL CONFORM TO SECTION PC706.
19. CLEANOUTS SHALL BE INSTALLED IN SANITARY AND STORM DRAINAGE PIPING AS PER SECTION PC708 AND PC1101.8.
21. INDIRECT, SPECIAL AND MISCELLANEOUS PIPING SHALL BE INSTALLED AS DIRECTED AND IN FULL COMPLIANCE WITH SECTIONS PC801 THROUGH PC804.
22. THE DISCHARGE FROM A COMMERCIAL DISHWASHING MACHINE SHALL BE THROUGH AN AIR GAP OR AIR BREAK INTO A STANDPIPE OR WASTE RECEPTOR AS PER SECTION PC 802.1.7.
23. THE SANITARY VENTING SYSTEM SHALL BE SIZED AND INSTALLED IN FULL COMPLIANCE WITH SECTIONS PC901 THROUGH PC919.
24. RELIEF VENTS FOR SANITARY/WASTE STACKS GREATER THAN 10 BRANCH INTERVALS SHALL BE PROVIDED IN FULL COMPLIANCE WITH SECTION PC914.
25. VENTS FOR SANITARY/WASTE STACK OFFSETS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION PC915.
26. TRAPS FOR FIXTURES SHALL BE INSTALLED IN FULL COMPLIANCE WITH SECTION PC1002.
27. A GREASE TRAP SHALL BE PROVIDED TO RECIEVE THE DRAINAGE FROM FIXTURES AND EQUIPMENT WITH GREASE-LADEN WASTE LOCATED IN FOOD PREPARATION AREAS, SUCH AS IN RESTAURANTS, HOTEL KITCHENS, HOSPITALS, SCHOOL KITCHENS, BARS, FACTORY CAFETERIAS , OR RESTAURANTS AND CLUBS AS PER SECTION PC 1003.3.1.
28. STORM DRAINAGE PIPING SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF PC1101 THROUGH PC1114.
29. SPECIAL PIPING AND STORAGE SYSTEMS SHALL BE INSTALLED AS DIRECTED IN SECTIONS PC1201 THROUGH PC1204.
30. WATER SUB-METERING SHALL BE PROVIDED ON ALL BOILER MAKE-UP FOR BUILDINGS GREATER THAN 6 STORIES, COOLING TOWER MAKE-UP, COMMERCIAL KITCHENS, LAUNDRIES, SWIMMING POOLS, AND SPAS. ALL SUB-METERS TO BE EQUIPPED WITH ELECTRONIC ENCODERS PER LOCAL LAW 56/10.

ABBREVIATIONS LIST

Abbreviation	Meaning	Abbreviation	Meaning
	SQUARE FOOT	LAV.	LAVATORY
A.B.D.	AUTOMATIC BALL DRIP	L.SK	LAUNDRY SINK
A.F.F.	ABOVE FINISHED FLOOR	M.B.H.	THOUSAND BTU/HOUR
A.F.C.	ABOVE FINISHED CEILING	M.H.	MANHOLE
A.D.	ACCESS DOOR	M.S.	MOP SINK
A. DR.	AREA DRAIN	M.S.B.	MOP SERVICE BASIN
B.F.F.	BELOW FINISHED FLOOR	N.I.C.	NOT IN CONTRACT
B.F.G.	BELOW FINISHED GRADE	N.C.	NORMALLY CLOSED
B.F.P.	BACKFLOW PREVENTION DEVICE	O.S.&Y.	OUTSIDE SCREW & YOKE
B.T.	BATH TUB	P.C.	PLUG COCK
C.D.	CANOPY DRAIN	P.O.	PLUGGED OUTLET
C.F.H.	CUBIC FEET PER HOUR	PZD	PLAZA DRAIN
C.F.M.	CUBIC FEET PER MINUTE	R.P.Z.	REDUCED PRESSURE ZONE
C.F.S.	CUBIC FEET PER SECOND	R.D.	ROOF DRAIN
CLG.	CEILING	R.T.	RUNNING TRAP
C.O.	CLEANOUT	R.C.V.	RISER CONTROL VALVE
C.O.D.P.	CLEAN OUT DECK PLATE	S.P.O.	SOIL PLUGGED OUTLET
D.I.	DROP INLET	SHR.- SHWR.	SHOWER
D.F.	DRINKING FOUNTAIN	SK.	SINK
D.F.U.	DRAINAGE FIXTURE UNIT	S.S.	SERVICE SINK
DN.	DOWN	S.E.	SEWAGE EJECTOR
EL.	ELEVATION	TER.D.	TERRACE DRAIN
E.W.C.	ELECTRIC WATER COOLER	T.D.	TERRACE DRAIN
EJD	SEWAGE EJECTOR DISCHARGE	T.E.	TERRACE ELEVATION
F.A.I.	FRESH AIR INLET	T.M.V.	THERMOSTATIC MIXING VALVE
F.D.	FLOOR DRAIN	T.W. UR.	TEMPERED WATER URINAL
FL.	FLOOR	V.I.F.	VERIFY IN FIELD
F.O.	FLOOR OUTLET	V.T.R.	VENT THRU ROOF
F.U.	FIXTURE UNITS	VAL. O.	VALVED OUTLET
FUN. DR.	FUNNEL DRAIN	V.P.O.	VENT PLUGGED OUTLET
F.S.	FLOOR SINK	W.H.A.	WATER HAMMER ARRESTER
F.V.	FLUSH VALVE	W.C.	WATER CLOSET
G.P.H.	GALLON PER HOUR	W.S.F.U.	WATER SUPPLY FIXTURE UNIT
G.D.	GARAGE DRAIN		
G.P.M.	GALLON PER MINUTE		
G.V.	GATE VALVE		
H.C.	HUNG CEILING		
INV.	INVERT		

PLUMBING DRAWING LIST

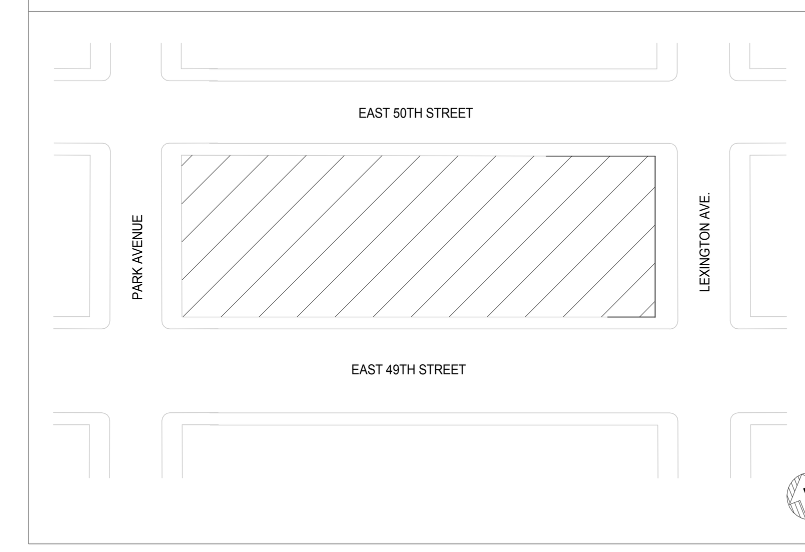
Sheet	Sheet Title	02/10/2017 ISSUED TO DOB Rev 00	04/13/2017 ISSUED TO DOB Rev 01	06/07/2017 ISSUED TO DOB Rev 02
P-001	PLUMBING SYMBOLS, NOTES AND ABBREVIATIONS	●	●	●
P-107	PLUMBING BASEMENT PART PLAN A	●	●	●
P-108	PLUMBING BASEMENT PART PLAN B	●	●	●
P-133	PLUMBING 13TH FLOOR PART PLAN A	●	●	●
P-134	PLUMBING 13TH FLOOR PART PLAN B	●	●	●
P-135	PLUMBING 14TH FLOOR PART PLAN A	●	●	●
P-136	PLUMBING 14TH FLOOR PART PLAN B	●	●	●
P-137	PLUMBING 15TH FLOOR PART PLAN A	●	●	●
P-138	PLUMBING 15TH FLOOR PART PLAN B	●	●	●
P-139	PLUMBING 16TH FLOOR PART PLAN A	●	●	●
P-140	PLUMBING 16TH FLOOR PART PLAN B	●	●	●
P-141	PLUMBING 17TH FLOOR PART PLAN A	●	●	●
P-142	PLUMBING 17TH FLOOR PART PLAN B	●	●	●
P-143	PLUMBING 18TH FLOOR PART PLAN A	●	●	●
P-144	PLUMBING 18TH FLOOR PART PLAN B	●	●	●
P-145	PLUMBING 19TH FLOOR PART PLAN A	●	●	●
P-146	PLUMBING 19TH FLOOR PART PLAN B	●	●	●
P-147	PLUMBING 20TH FLOOR PART PLAN A	●	●	●
P-148	PLUMBING 20TH FLOOR PART PLAN B	●	●	●
P-149	PLUMBING 21ST FLOOR PART PLAN A	●	●	●
P-150	PLUMBING 21ST FLOOR PART PLAN B	●	●	●
P-151	PLUMBING 22ND THRU 30TH FLOOR PLAN	●	●	●
P-160	PLUMBING 31ST FLOOR PLAN	●	●	●
P-161	PLUMBING 32ND FLOOR PLAN	●	●	●
P-162	PLUMBING 33RD FLOOR PLAN	●	●	●
P-163	PLUMBING 34TH THRU 36TH FLOOR PLAN	●	●	●
P-166	PLUMBING 37TH FLOOR PLAN	●	●	●
P-167	PLUMBING 38TH FLOOR PLAN	●	●	●
P-168	PLUMBING 39TH-40TH FLOOR PLAN	●	●	●
P-170	PLUMBING 41ST FLOOR PLAN	●	●	●
P-171	PLUMBING 42ND FLOOR PLAN	●	●	●
P-501	PLUMBING DOMESTIC WATER RISER DIAGRAM SHEET #1	●	●	●
P-502	PLUMBING DOMESTIC WATER RISER DIAGRAM SHEET #2	●	●	●
P-503	PLUMBING SANITARY RISER DIAGRAM SHEET	●	●	●
P-504	PLUMBING SANITARY RISER DIAGRAM SHEET	●	●	●
P-505	PLUMBING STORM WATER RISER DIAGRAM SHEET	●	●	●
P-506	PLUMBING STORM WATER RISER DIAGRAM SHEET	●	●	●
P-507	PLUMBING NATURAL GAS RISER DIAGRAM SHEET	●	●	●
P-508	PLUMBING NATURAL GAS RISER DIAGRAM SHEET	●	●	●
P-601	PLUMBING SCHEDULES	●	●	●
P-701	PLUMBING DETAILS	●	●	●

PLUMBING SCOPE OF WORK FOR ALT-1

THESE DRAWINGS ARE USED FOR INITIAL INFRASTRUCTURE APPROVAL FROM NYC DEVELOPMENT HUB FOR FLOORS: BASEMENT LEVEL & 13 THROUGH 42. LPC/EXTERIOR SPACES & NON-R2 SERVICES ARE NOT PART OF THIS APPLICATION. DEMOLITION OF THESE FLOORS HAVE BEEN FILED UNDER A SEPARATE APPLICATION. REFER TO PLANS FOR AREA OF WORK AND AREAS NOT IN CONTRACT.

PLOT PLAN & ZONING DATA

PROJECT ADDRESS: 301 PARK AVENUE, NEW YORK, NY 10022
TAX BLOCK: 1304
TAX LOT: 7501



PLUMBING INFRASTRUCTURE SCOPE OF WORK

1. LIST OF MAJOR PLUMBING EQUIPMENT FOR INFRASTRUCTURE PACKAGE:
2. DOMESTIC WATER BOOSTER PUMPS - ZONE 1, DBP-1
3. DOMESTIC WATER BOOSTER PUMPS - ZONE 2, DBP-2
4. DOMESTIC WATER BOOSTER PUMPS - ZONE 5, DBP-5
5. DOMESTIC WATER BOOSTER PUMPS - ZONE 6, DBP-6
6. TANK FILL PUMPS, TF-1
7. HOT WATER HEATERS - ZONE 1, DHW-1
8. HOT WATER HEATERS - ZONE 2, DHW-2
9. HOT WATER HEATERS - ZONE 3, DHW-3
10. HOT WATER HEATERS - ZONE 4, DHW-4
11. HOT WATER HEATERS - ZONE 5, DHW-5
12. HOT WATER HEATERS - ZONE 6, DHW-6
13. DOMESTIC WATER HOUSE TANK

NOTES:
- REFER TO DOMESTIC WATER RISER DIAGRAM P-501 FOR PLUMBING EQUIPMENT AND SYSTEMS THAT ARE PART OF THE MEP INFRASTRUCTURE - BID SET PACKAGE 006.
- REFER TO FLOOR PLANS FOR MER LOCATIONS AND EQUIPMENT LOCATIONS.
- PROVIDE ALL VALVES FITTINGS AND APPURTENANCES ASSOCIATED WITH THE PLUMBING EQUIPMENT LISTED, INCLUDING PNEUMATIC TANKS.
- REFER TO TYPICAL DETAILS & SPECIFICATIONS FOR SCHEMATIC PIPING REQUIREMENTS
- REFER TO SCHEDULES FOR EQUIPMENT CAPACITIES, PERFORMANCE AND MANUFACTURER BASIS OF DESIGN.
- REFER TO SPECIFICATIONS FOR LISTED EQUIPMENT MANUFACTURERS AND MINIMUM EQUIPMENT REQUIREMENTS.

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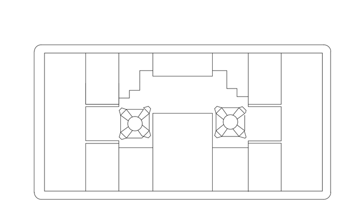

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4	13 APR 2017	ISSUED TO DOB Rev 01
3	17 MAR 2017	ISSUED FOR BID PACKAGE 006
2	10 FEB 2017	RESIDENTIAL DOB FILING BASIS
1	10 FEB 2017	ISSUED TO DOB Rev 00

DRAWING TITLE

PLUMBING SYMBOLS, NOTES AND ABBREVIATIONS

DRAWING NUMBER

P-001

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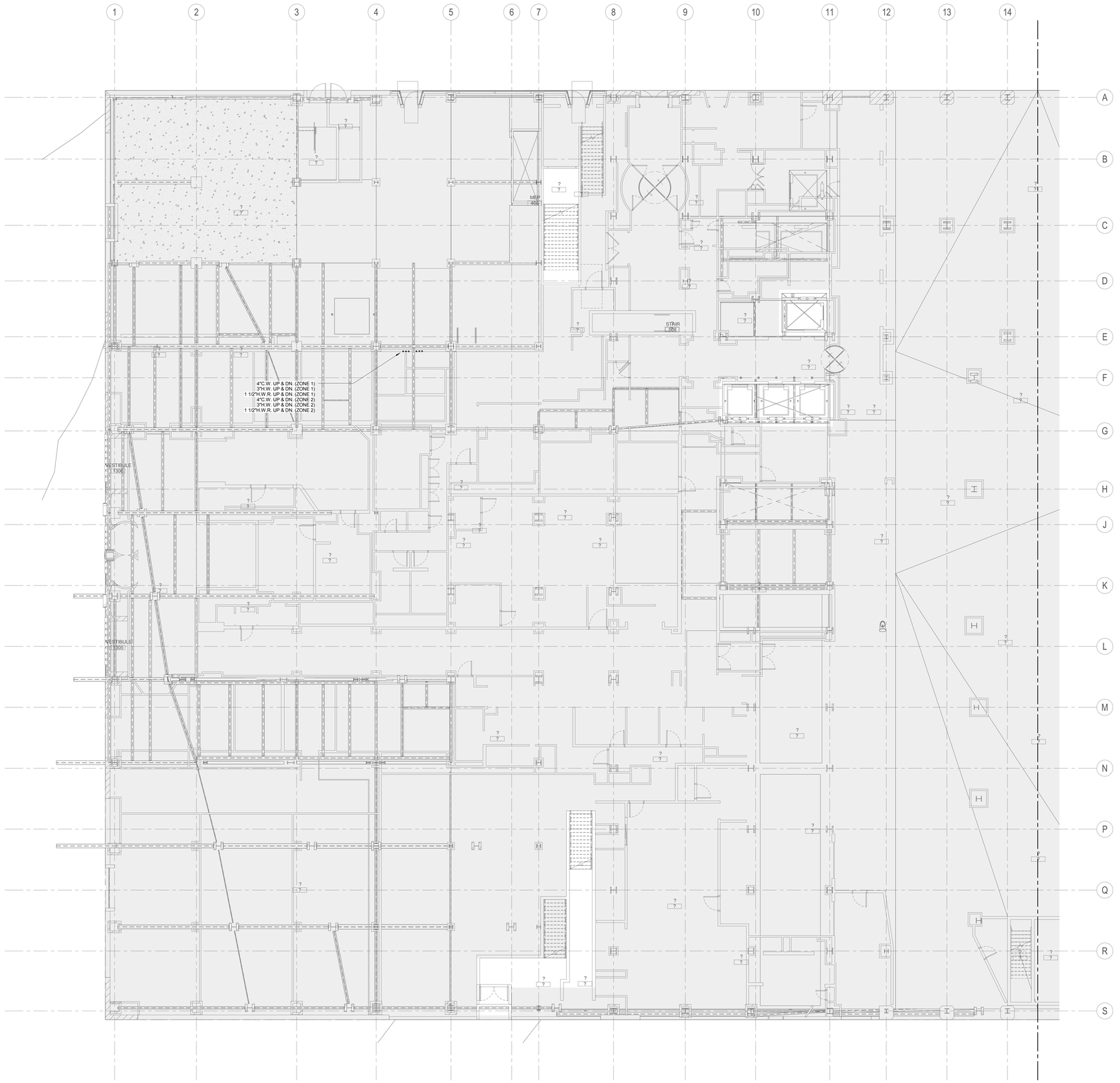

1 PLUMBING - BASEMENT PART PLAN A
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1	10 APR 2017	ISSUED TO DOB

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PLUMBING BASEMENT PART PLAN A

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P-107.00

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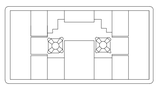

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DRAWING TITLE

PLUMBING BASEMENT PART PLAN B

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3 OF 41

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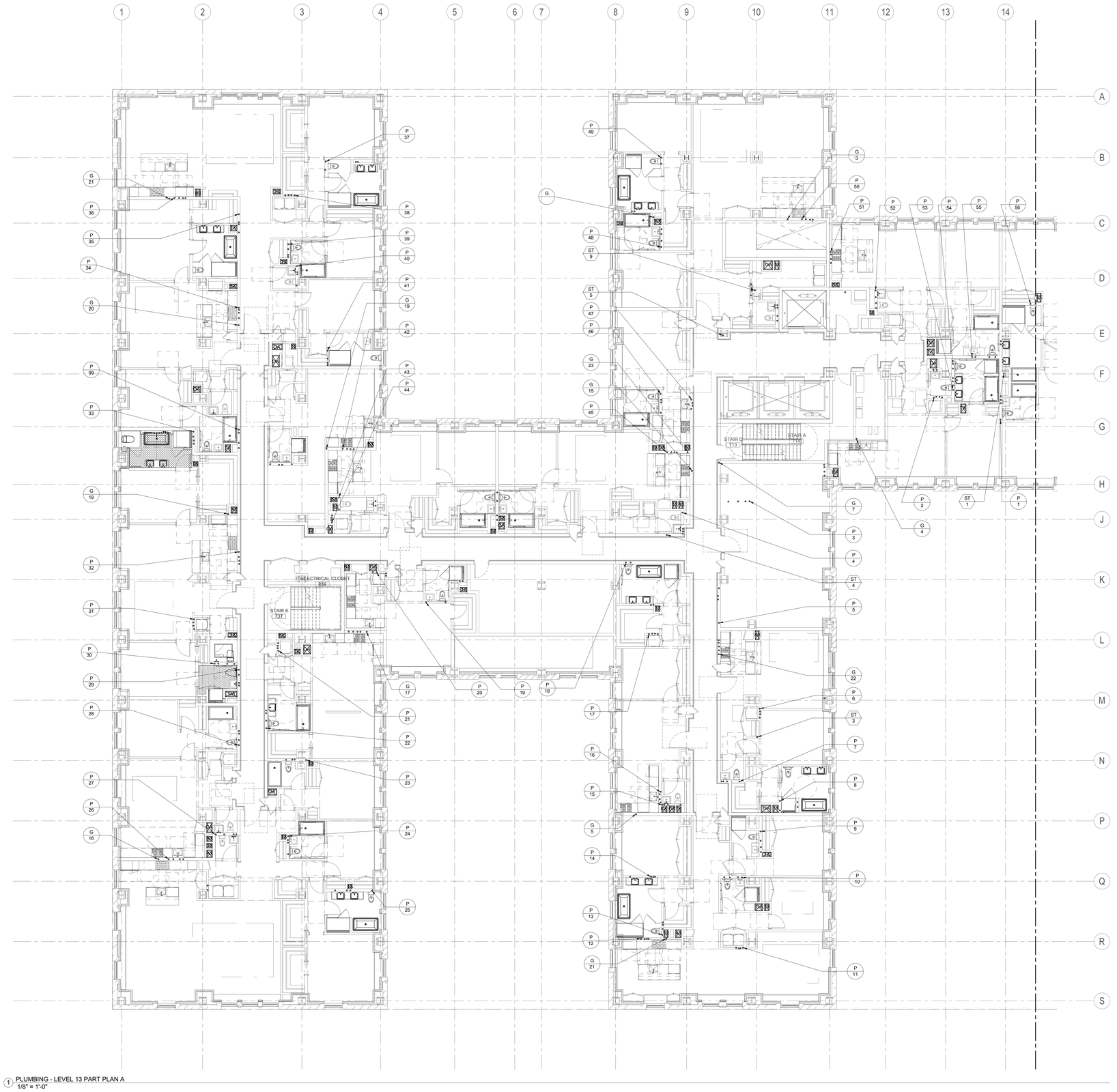

1 PLUMBING - LEVEL 13 PART PLAN A
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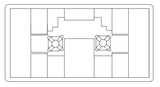

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PLUMBING 13TH FLOOR PART PLAN A

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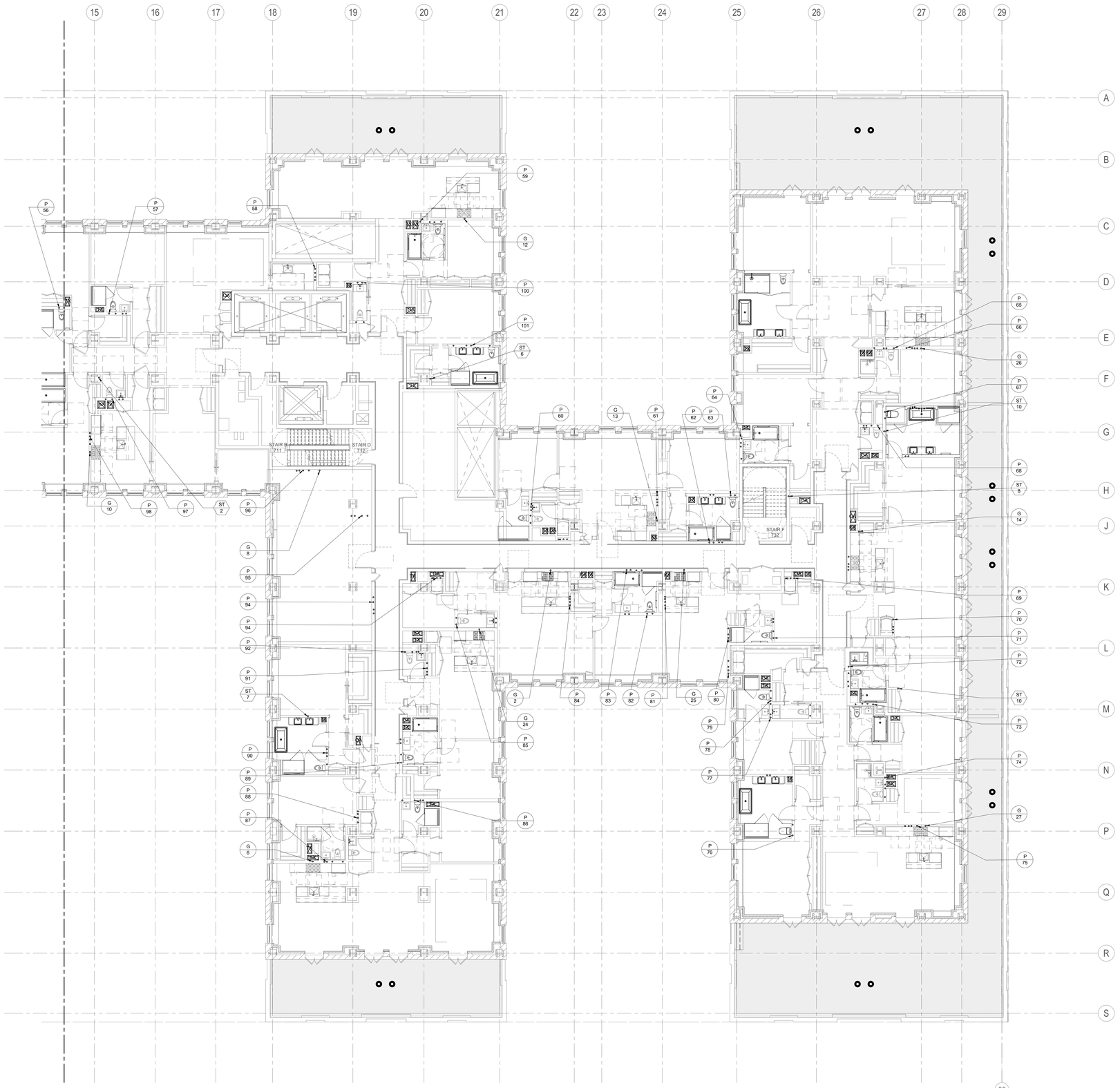

1 PLUMBING - LEVEL 13 PART PLAN B
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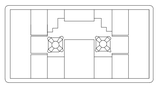

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PLUMBING 13TH FLOOR PART PLAN B

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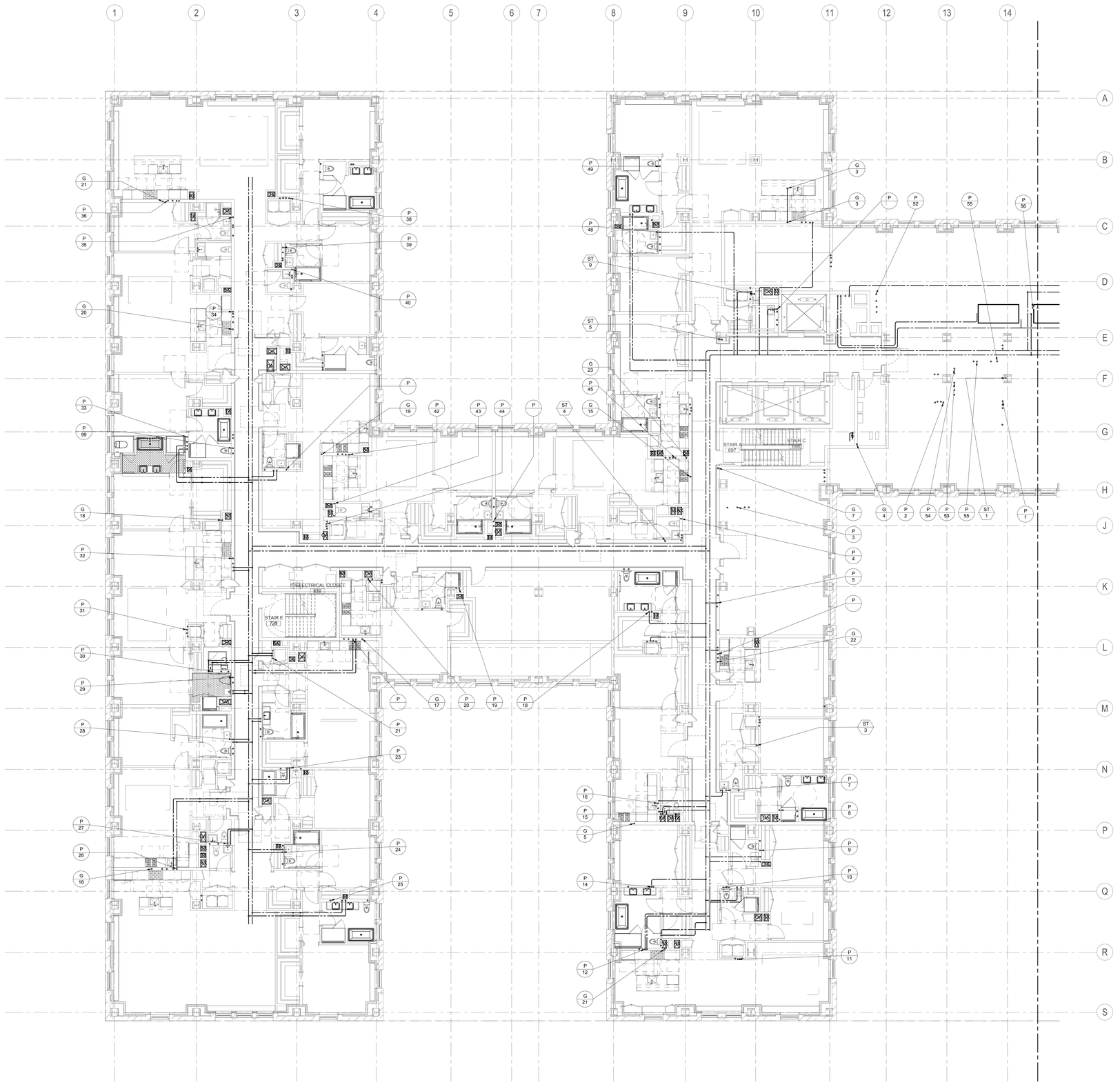

1 PLUMBING - LEVEL 14 PART PLAN A
1/8" = 1'-0"

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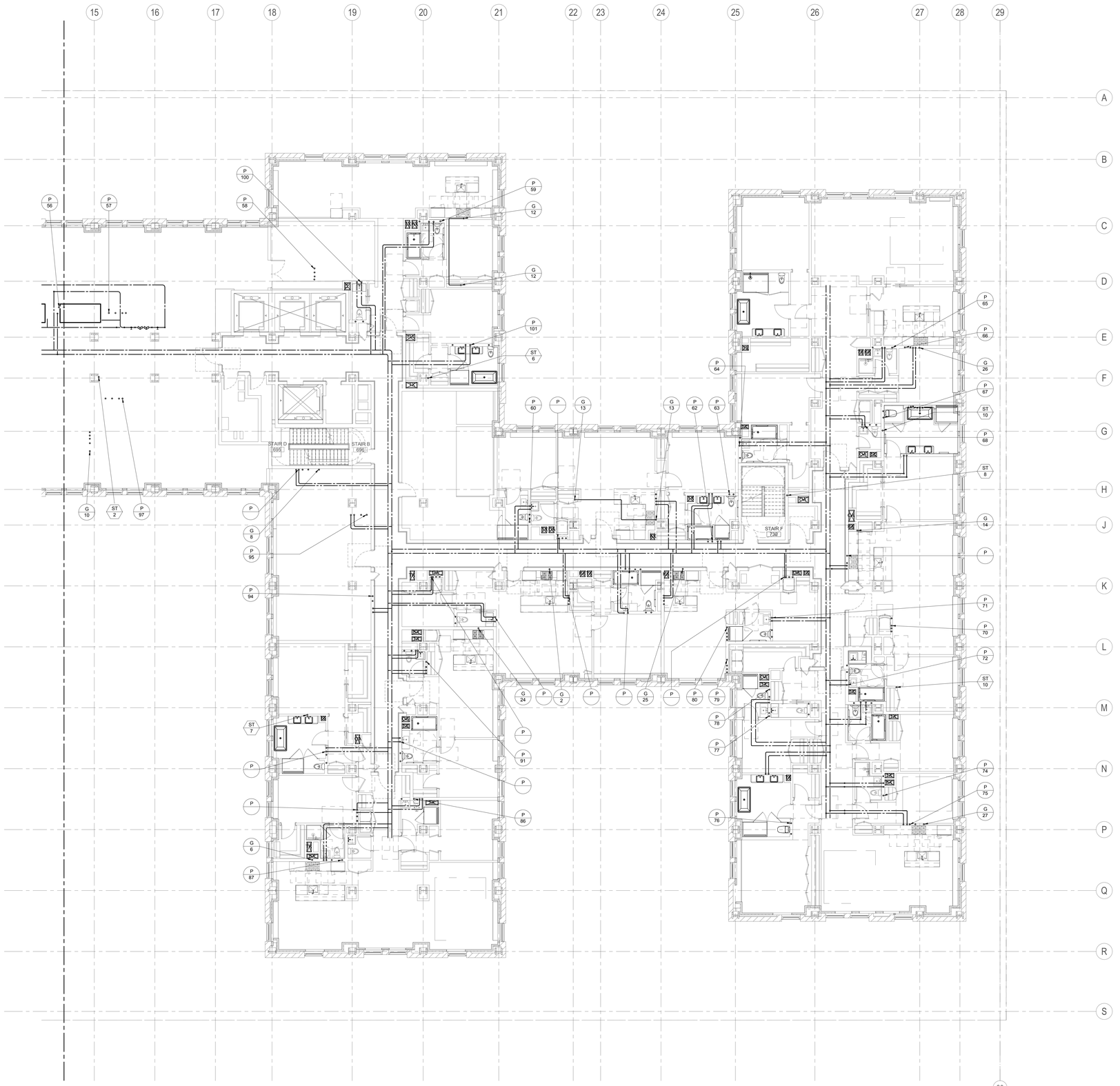

1 PLUMBING - LEVEL 14 PART PLAN B
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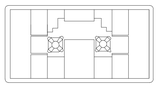

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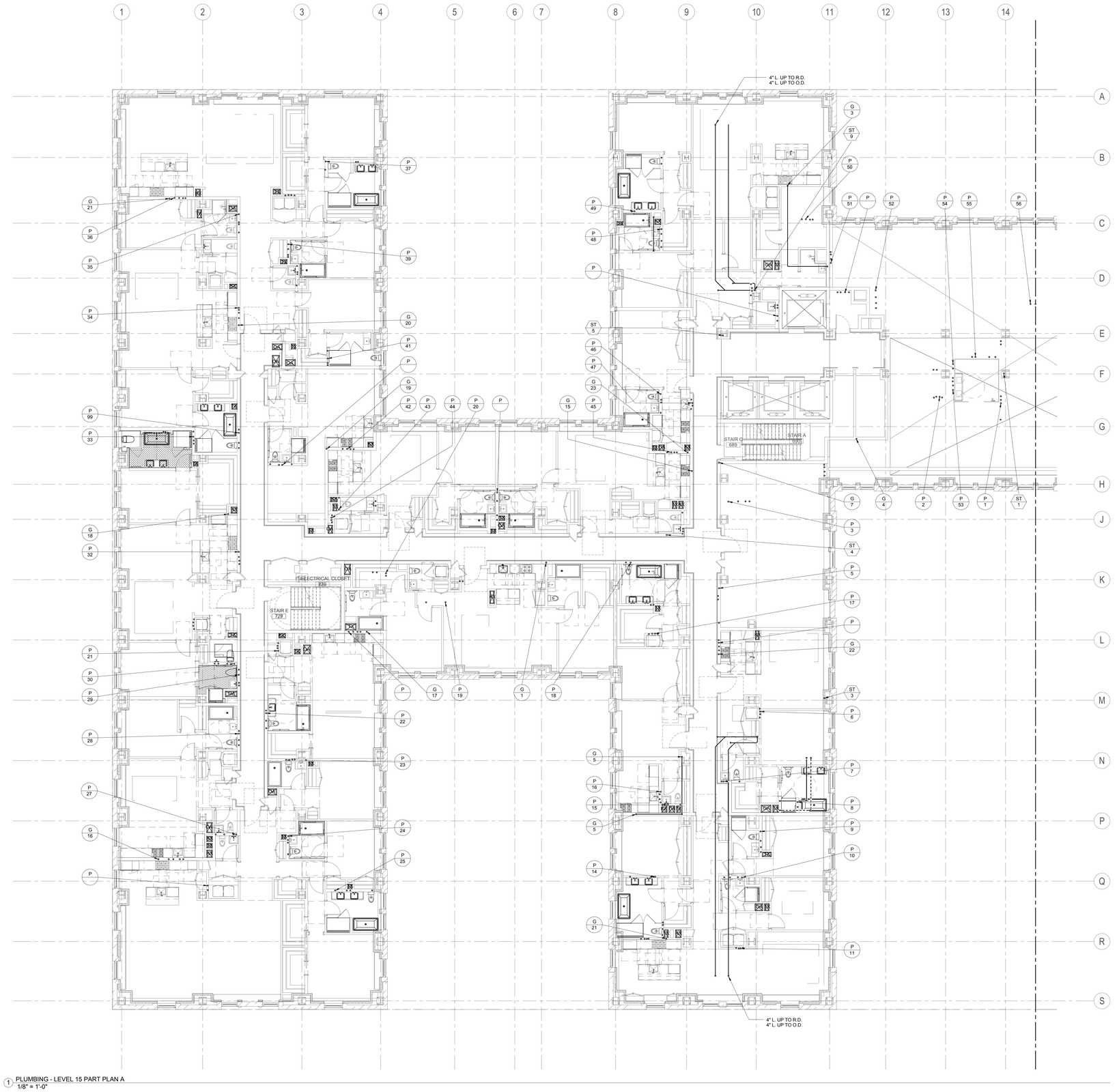

1 PLUMBING - LEVEL 15 PART PLAN A
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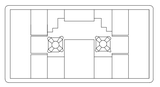

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PLUMBING 15TH FLOOR PART PLAN A

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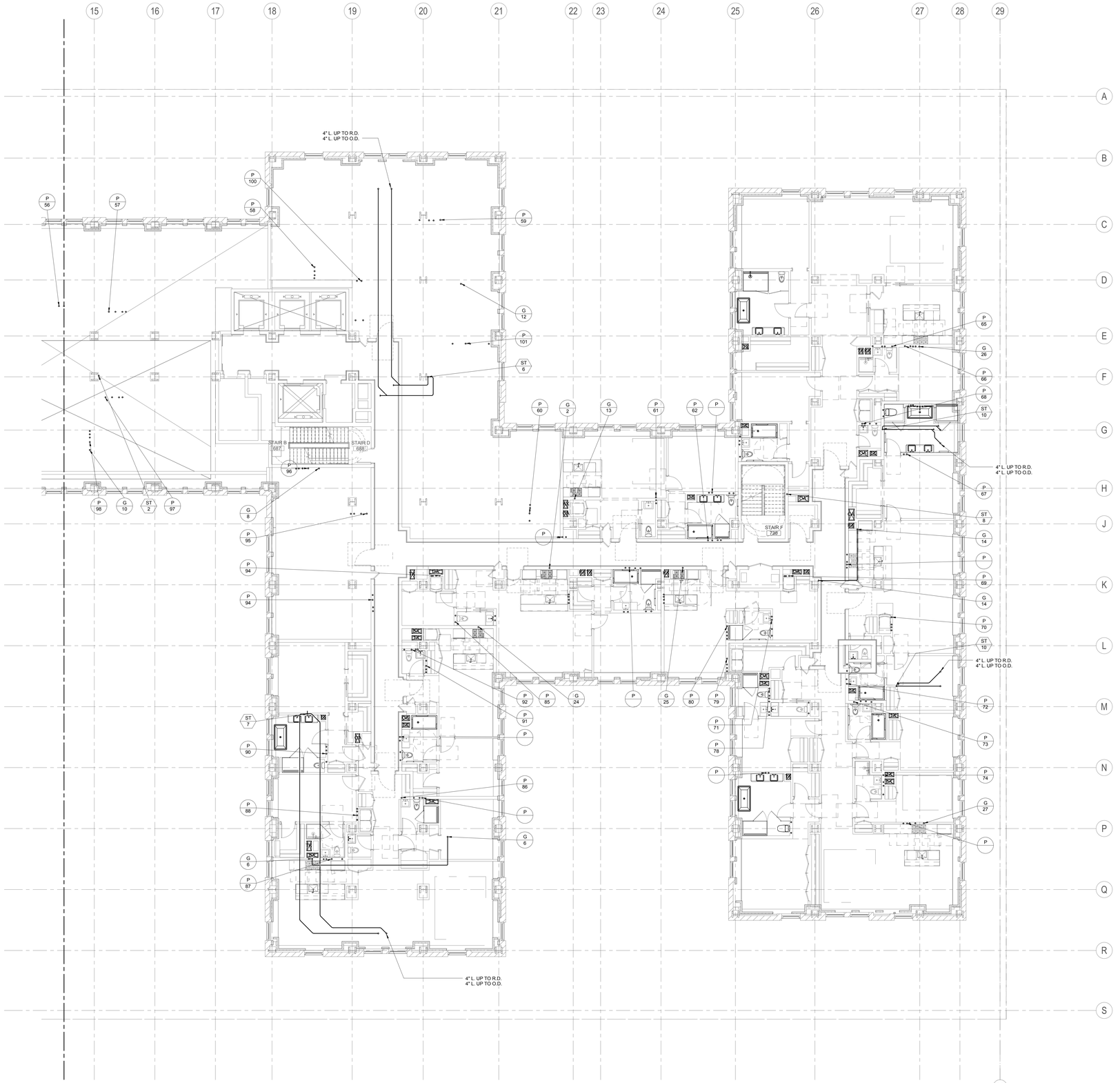

1 PLUMBING - LEVEL 15 PART PLAN B
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PAGE NUMBER

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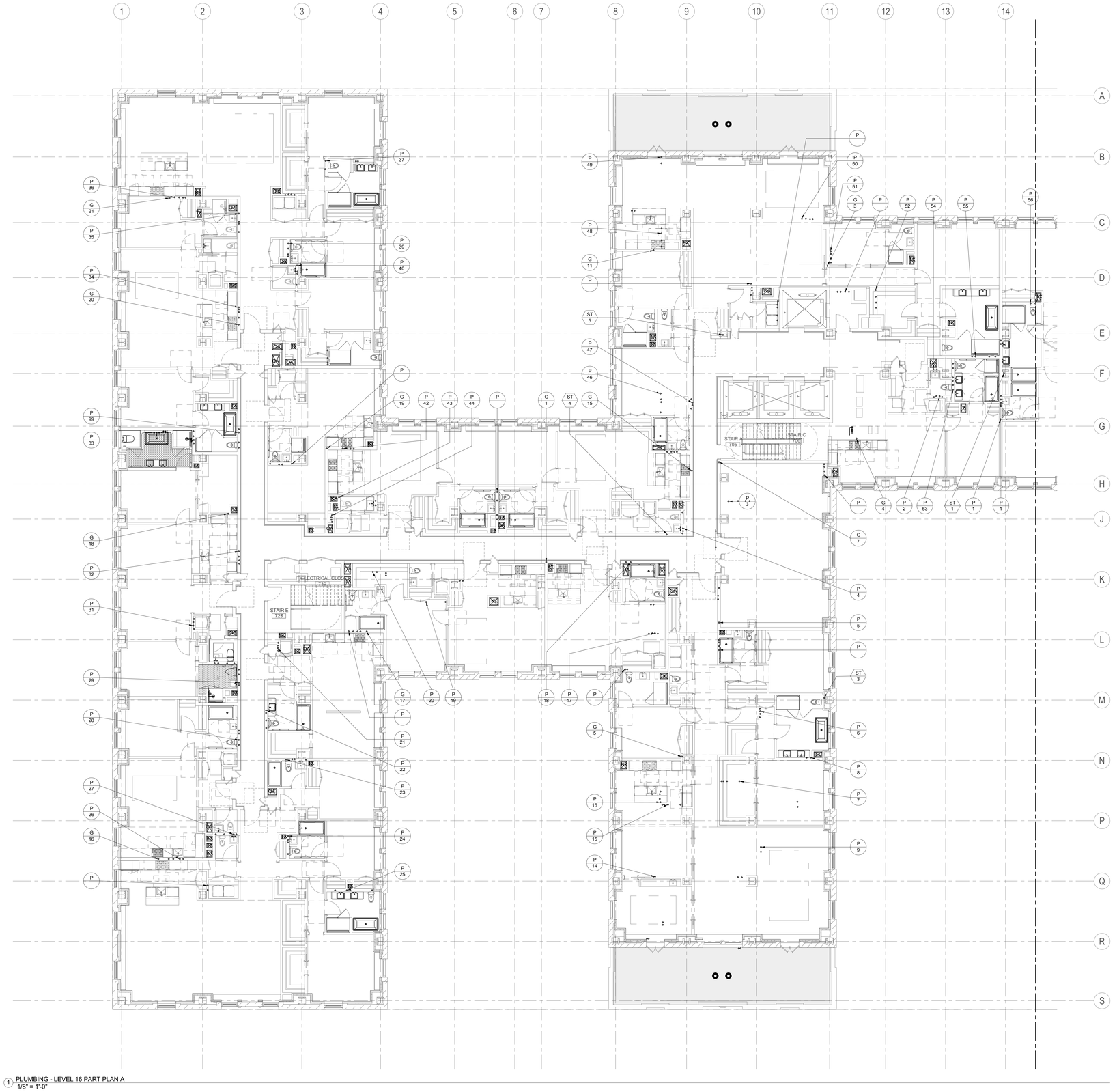

1 PLUMBING - LEVEL 16 PART PLAN A
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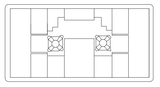

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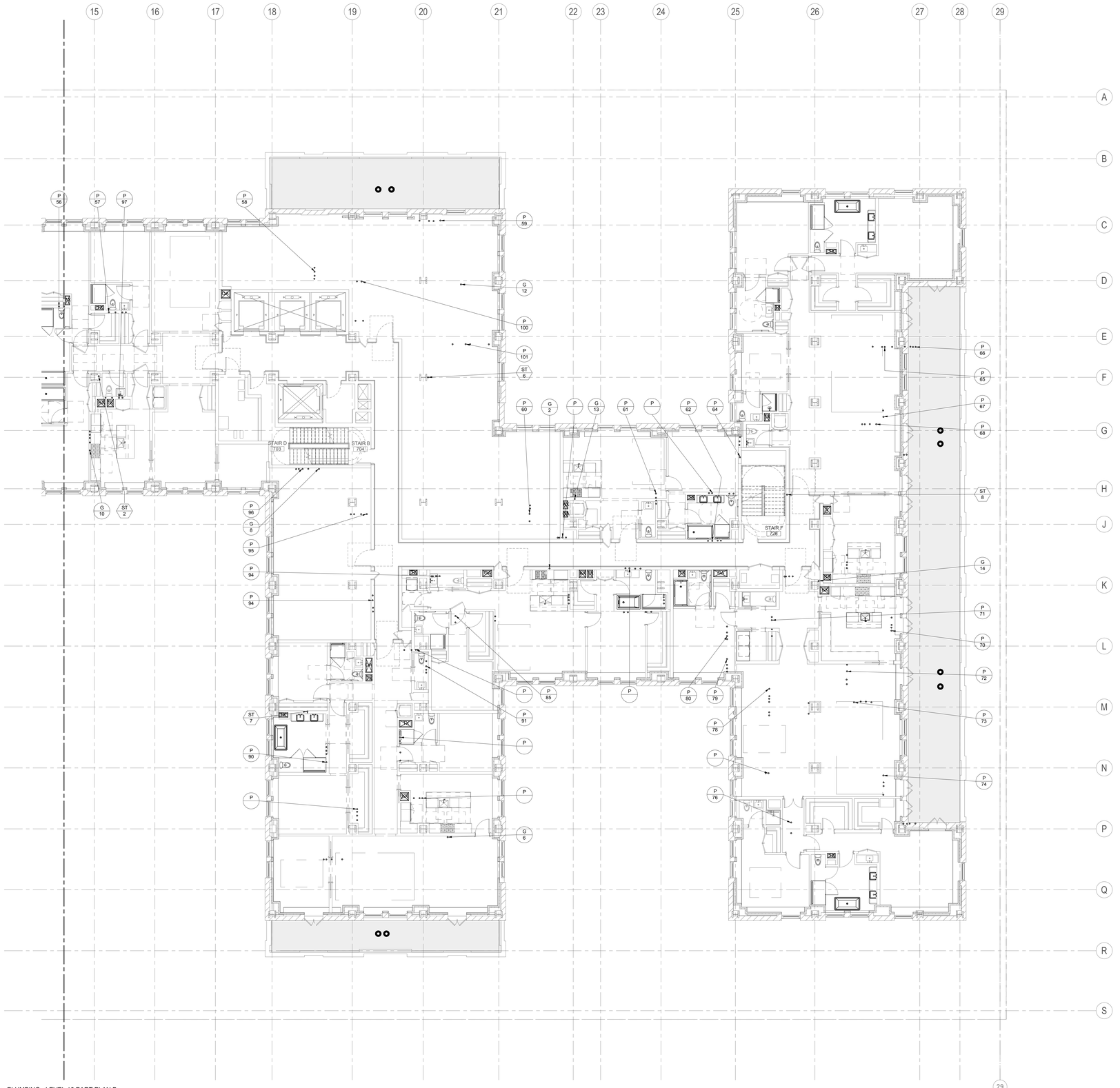

1 PLUMBING - LEVEL 16 PART PLAN B
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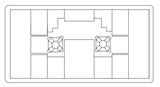

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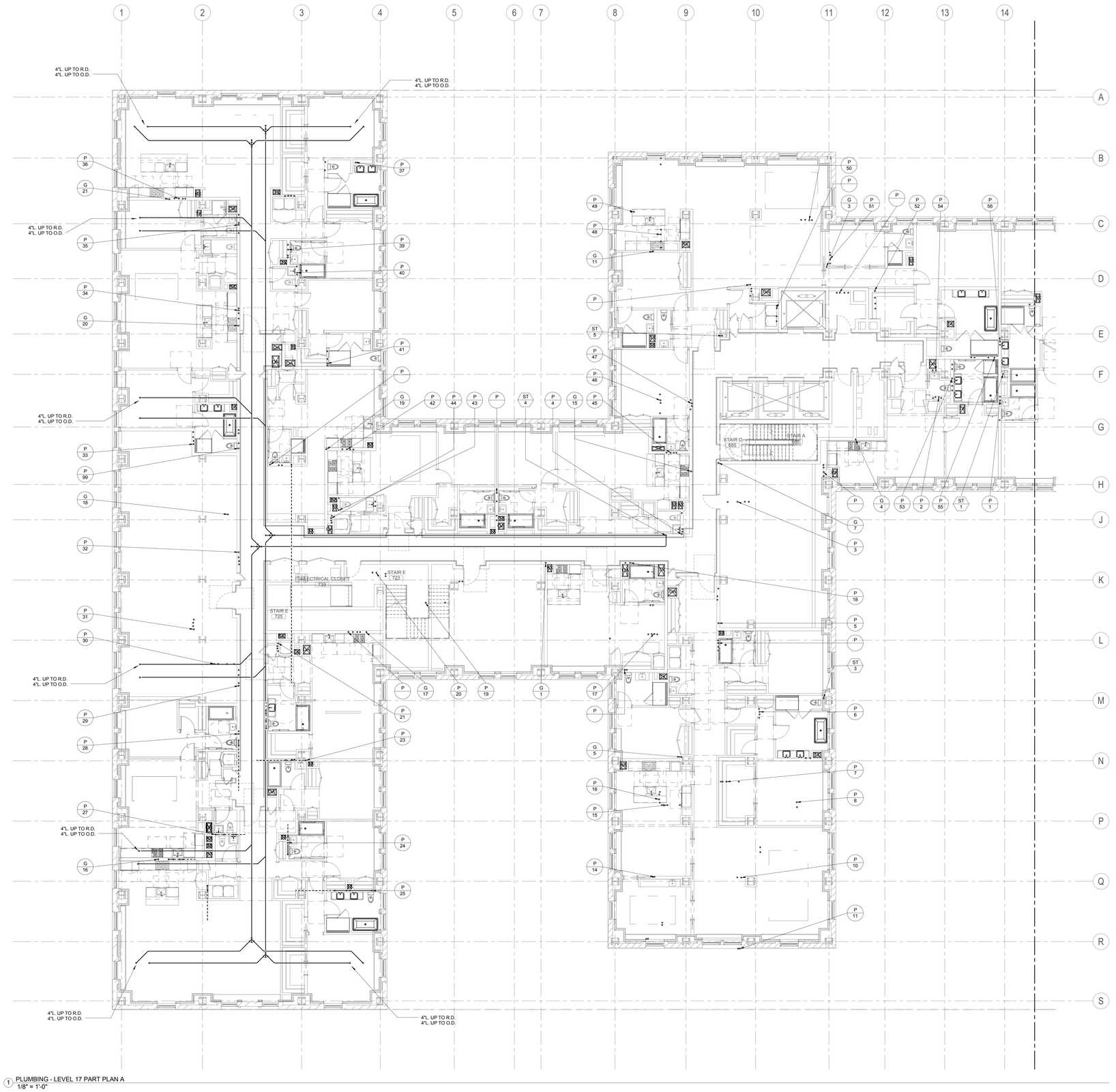

1 PLUMBING - LEVEL 17 PART PLAN A
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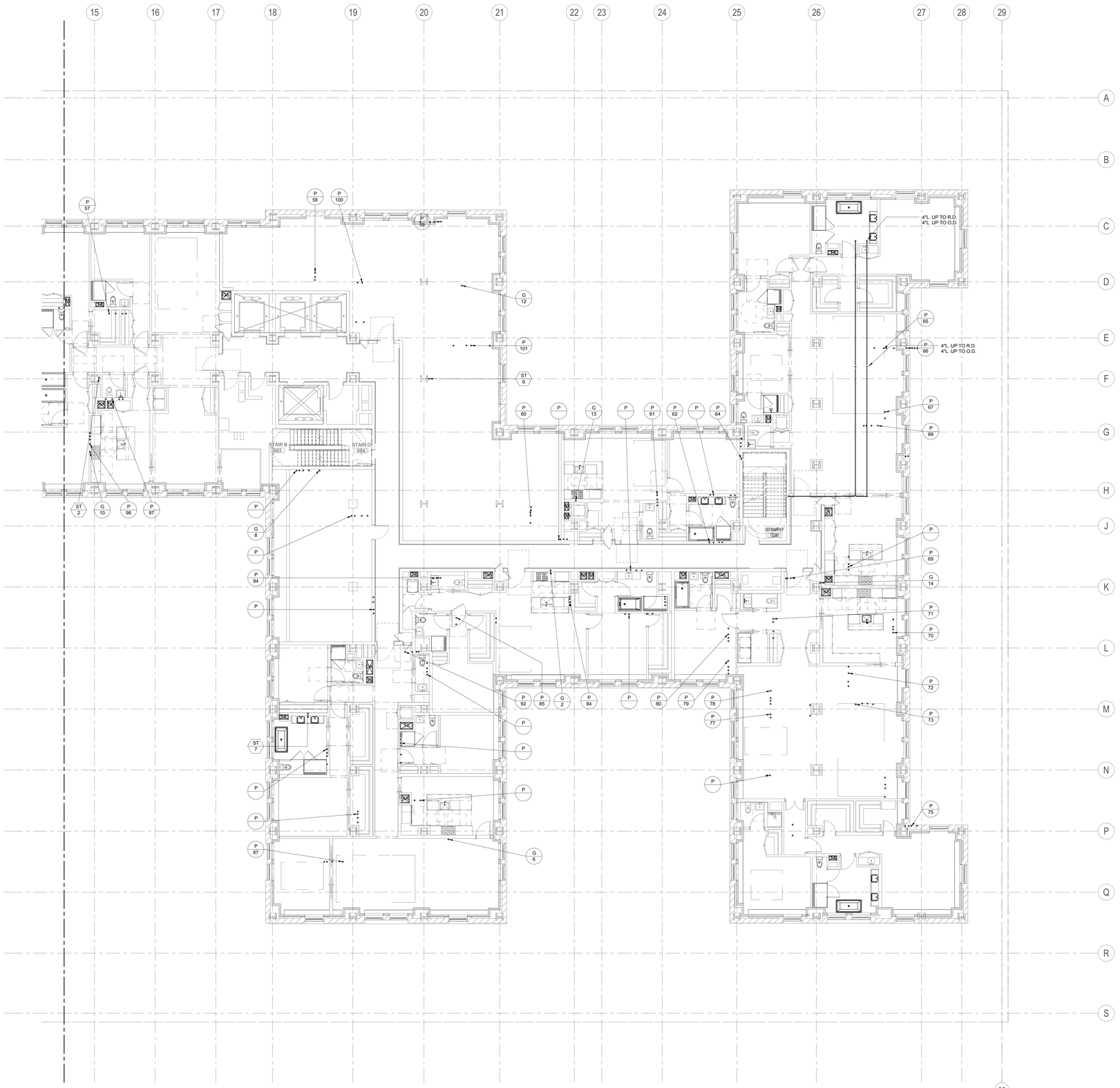

1 PLUMBING - LEVEL 17 PART PLAN B
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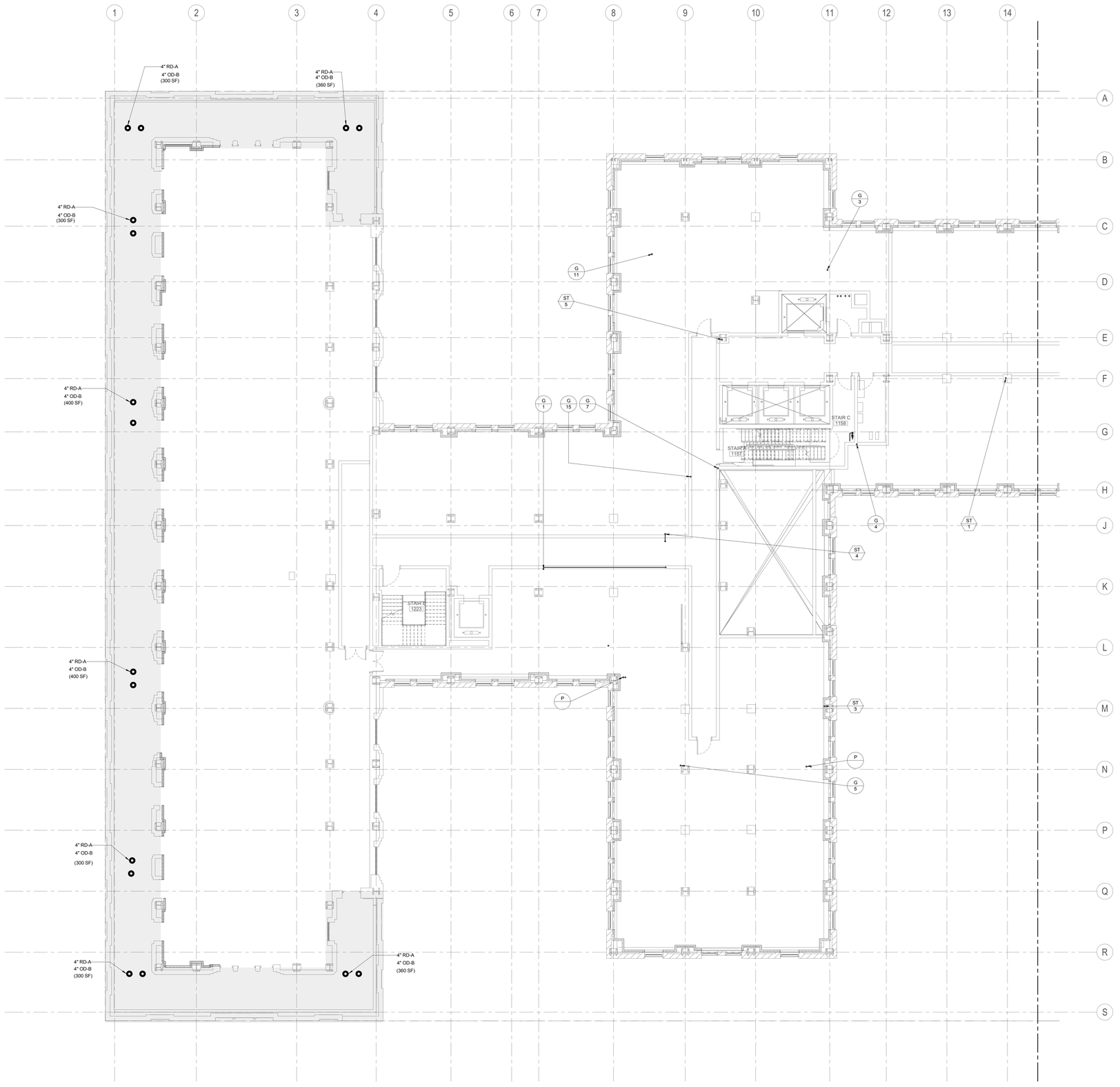

1 PLUMBING - LEVEL 18 PART PLAN A
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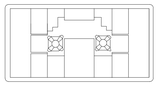

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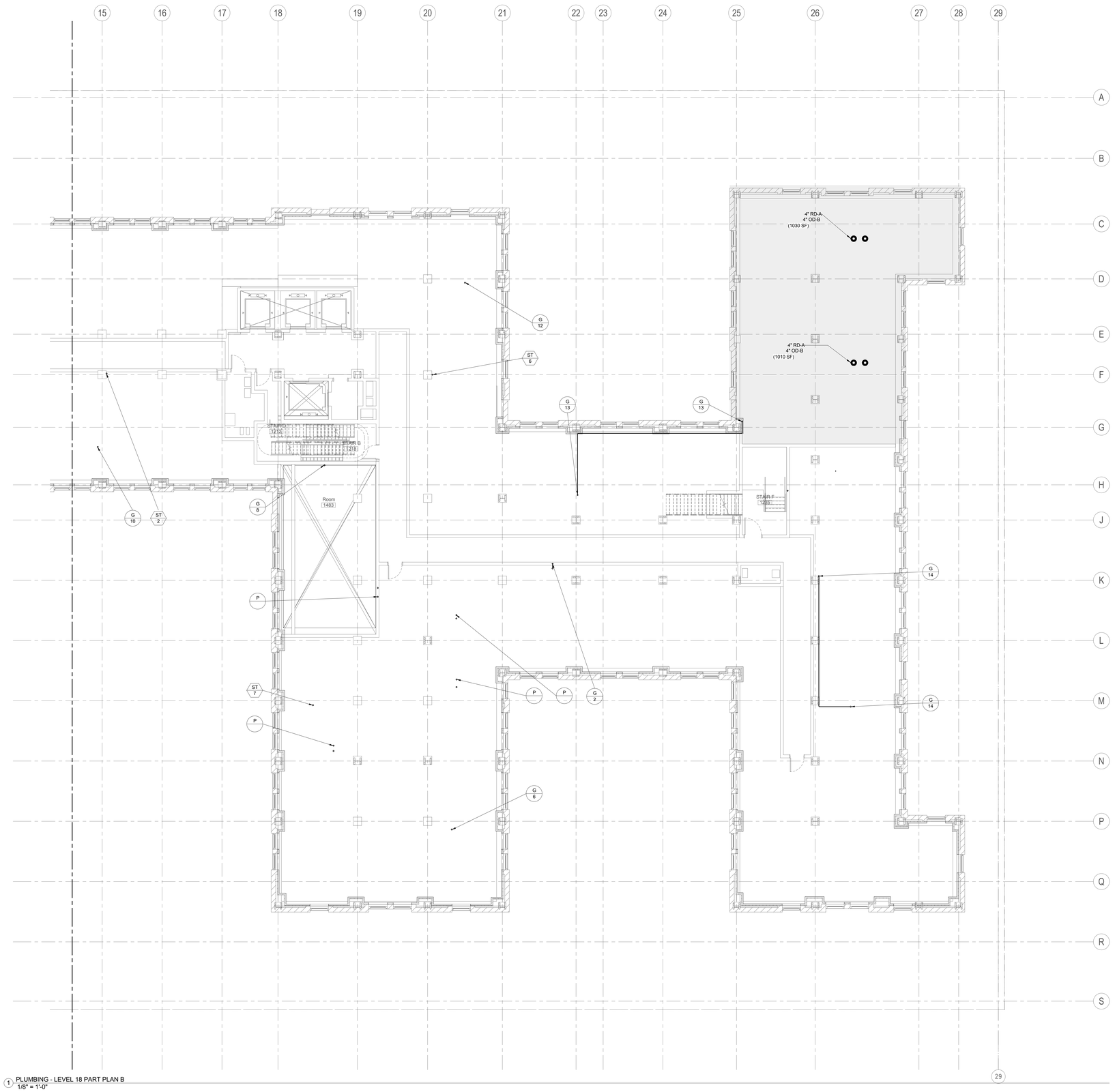

1 PLUMBING - LEVEL 18 PART PLAN B
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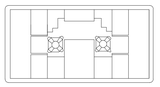

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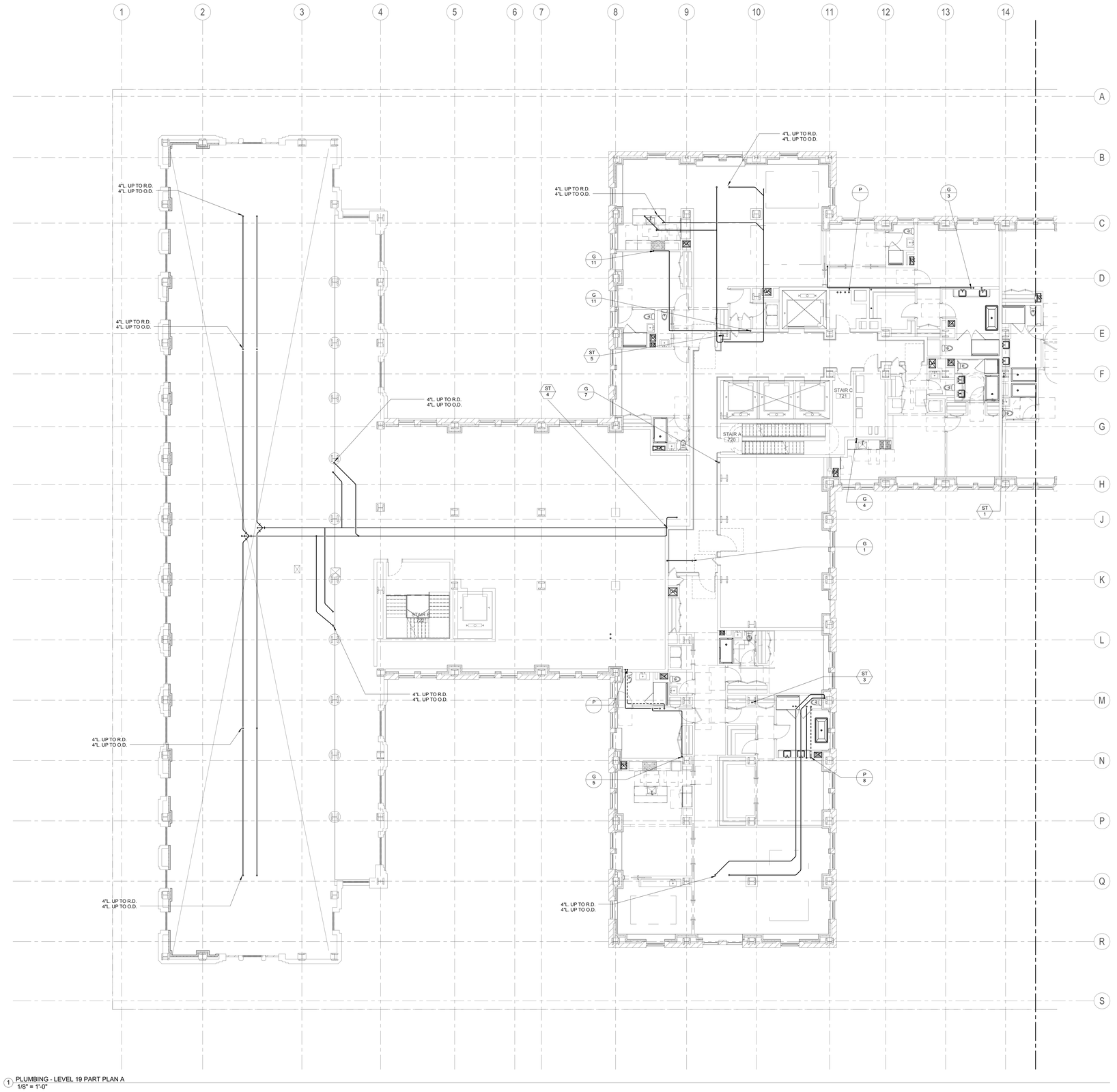

1 PLUMBING - LEVEL 19 PART PLAN A
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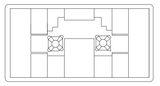

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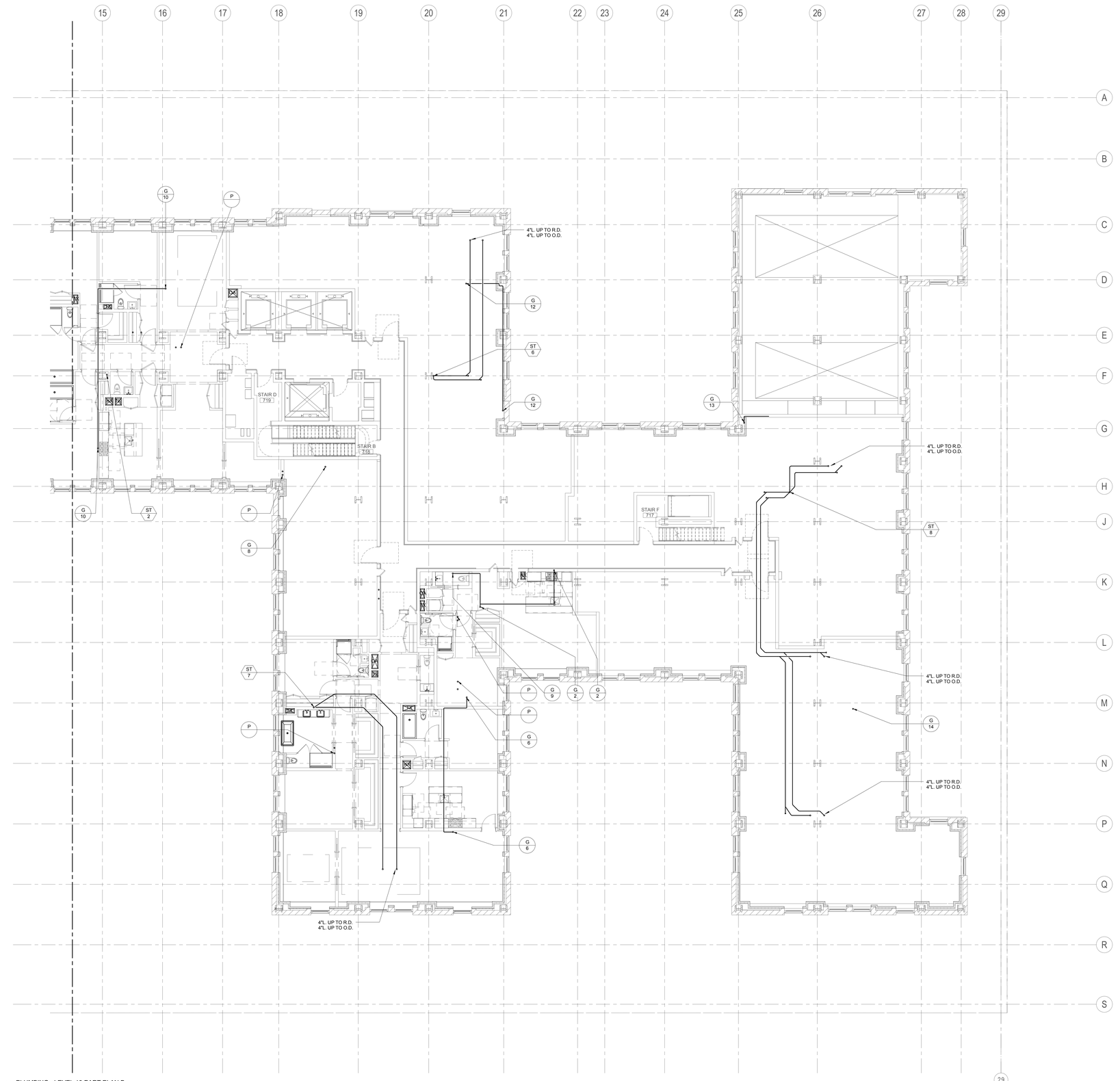

1 PLUMBING - LEVEL 19 PART PLAN B
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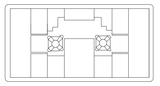

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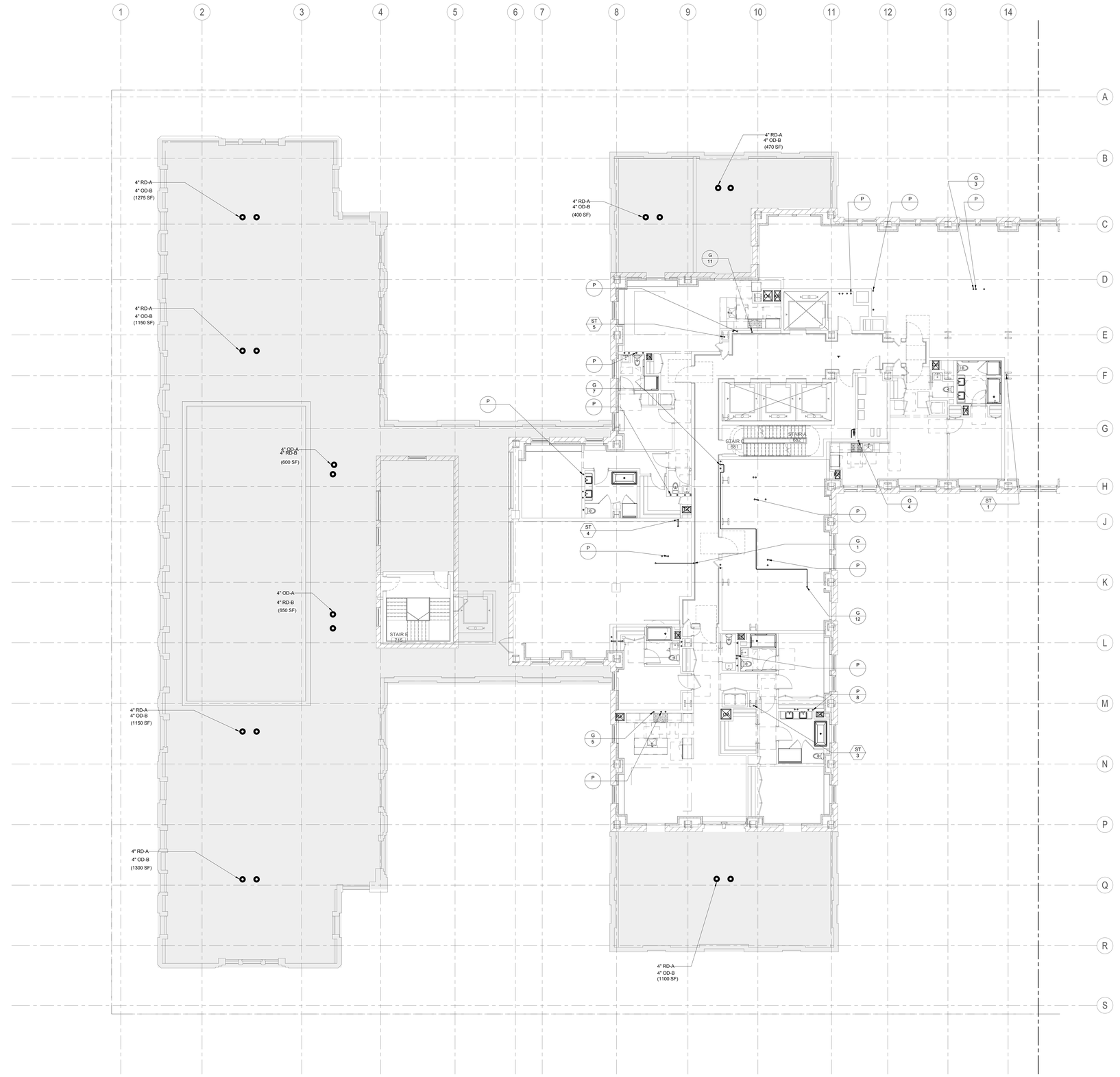

1 PLUMBING - LEVEL 20 PART PLAN A
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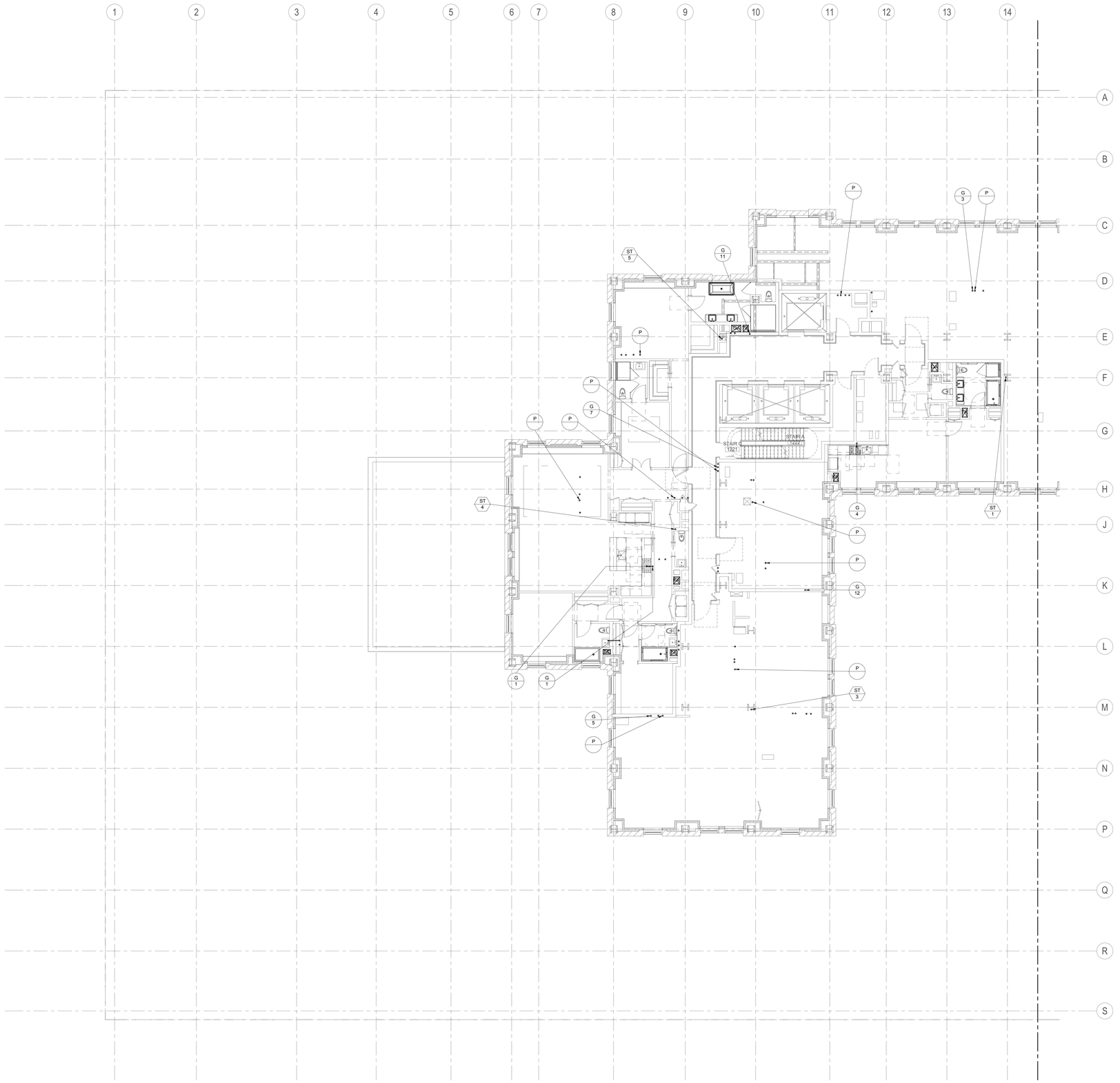

1 PLUMBING - LEVEL 21 PART PLAN A
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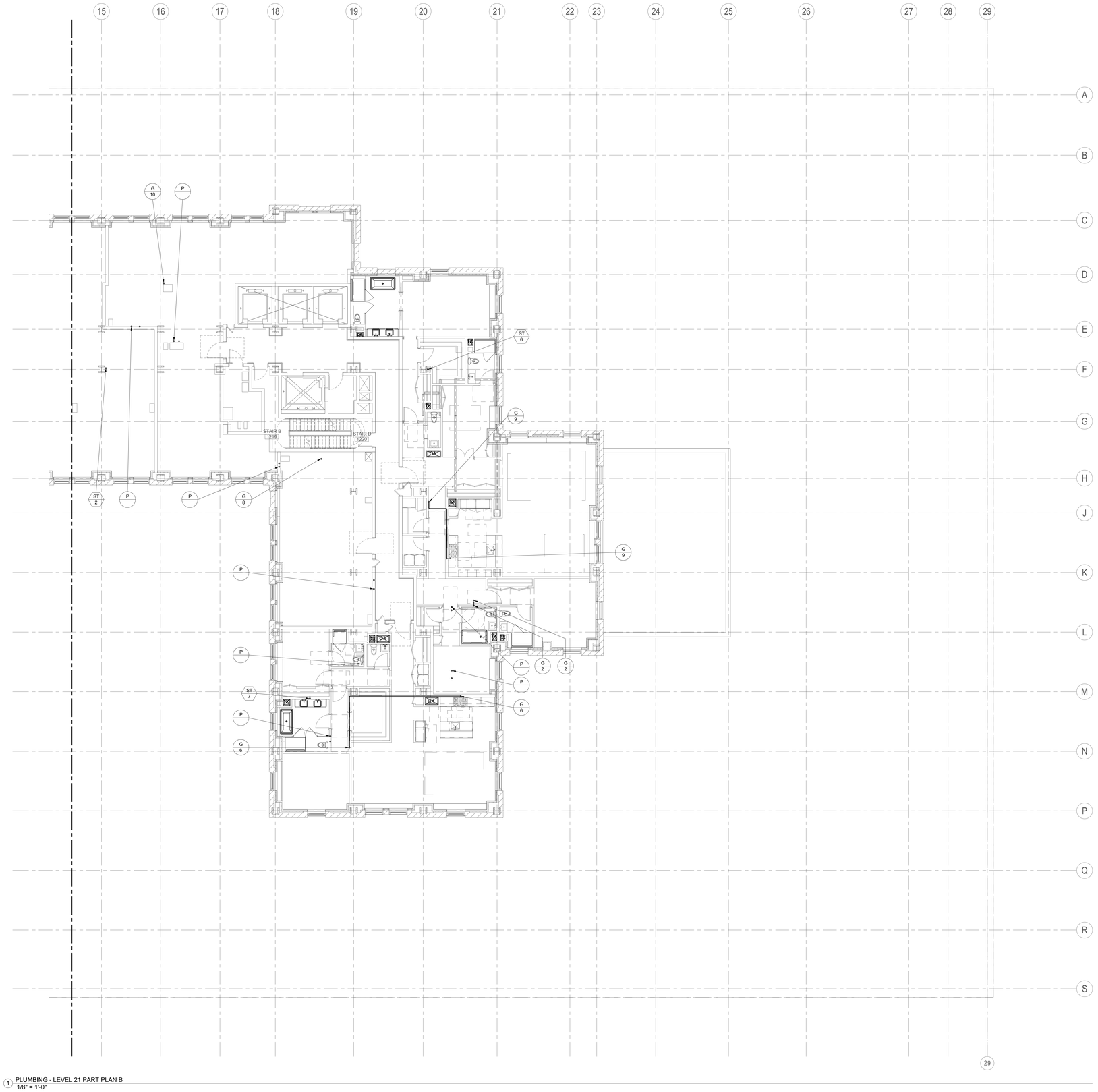

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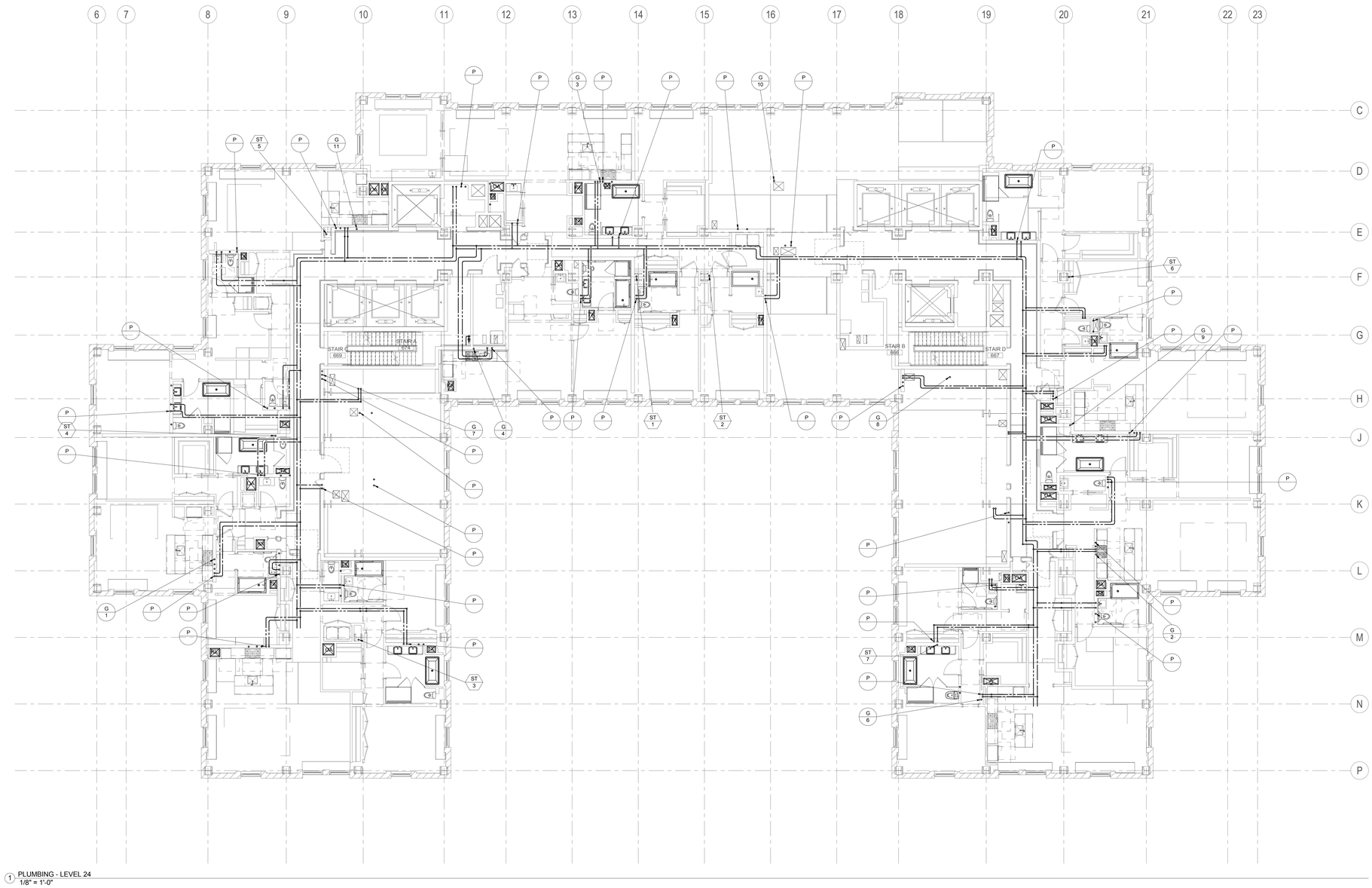

1 PLUMBING - LEVEL 24
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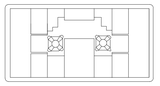

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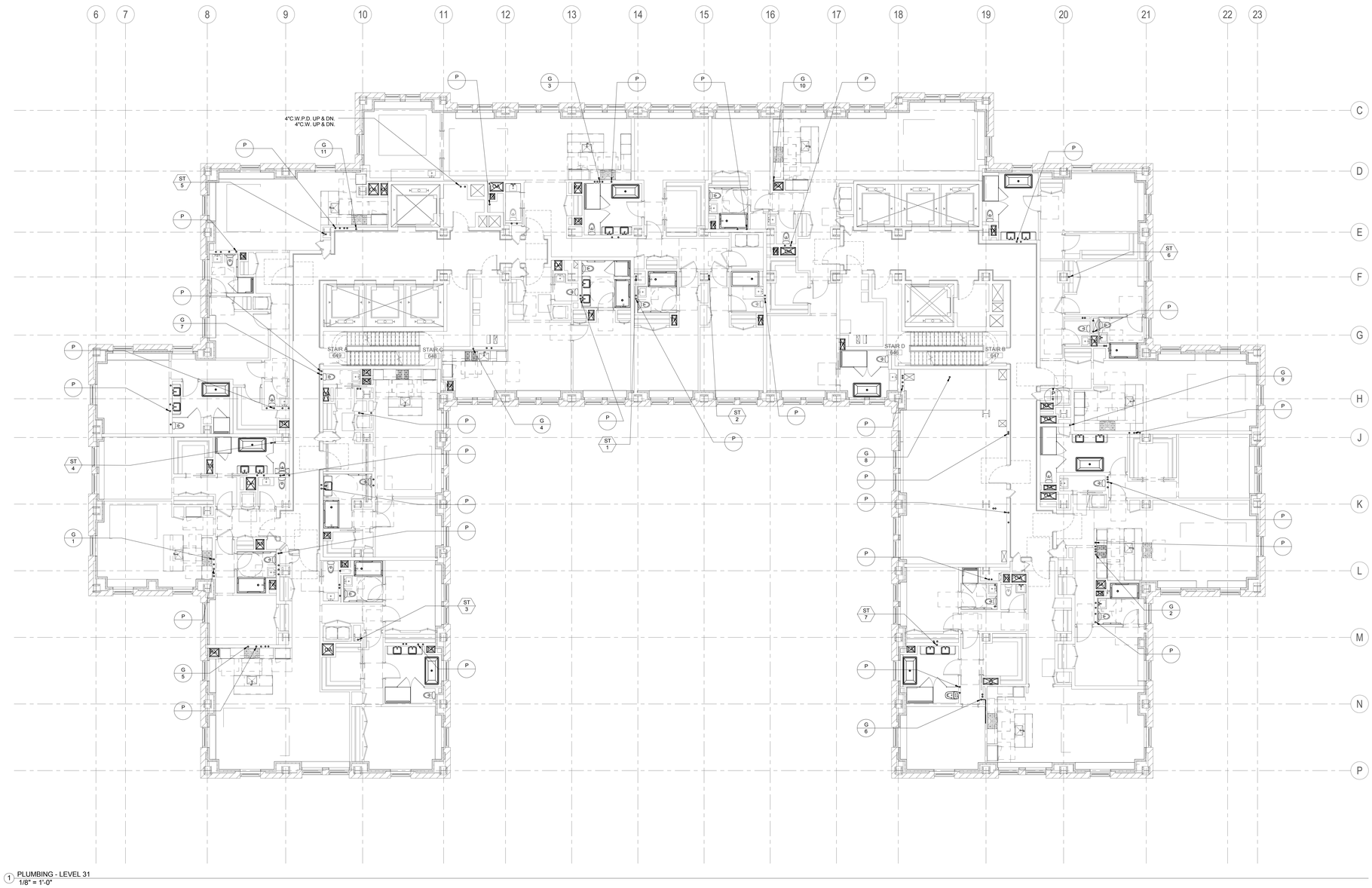

1 PLUMBING - LEVEL 31
1/8" = 1'-0"

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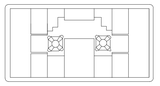

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5	7 JUNE 2017	ISSUED TO DOB REV02
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PLUMBING 31ST FLOOR PLAN

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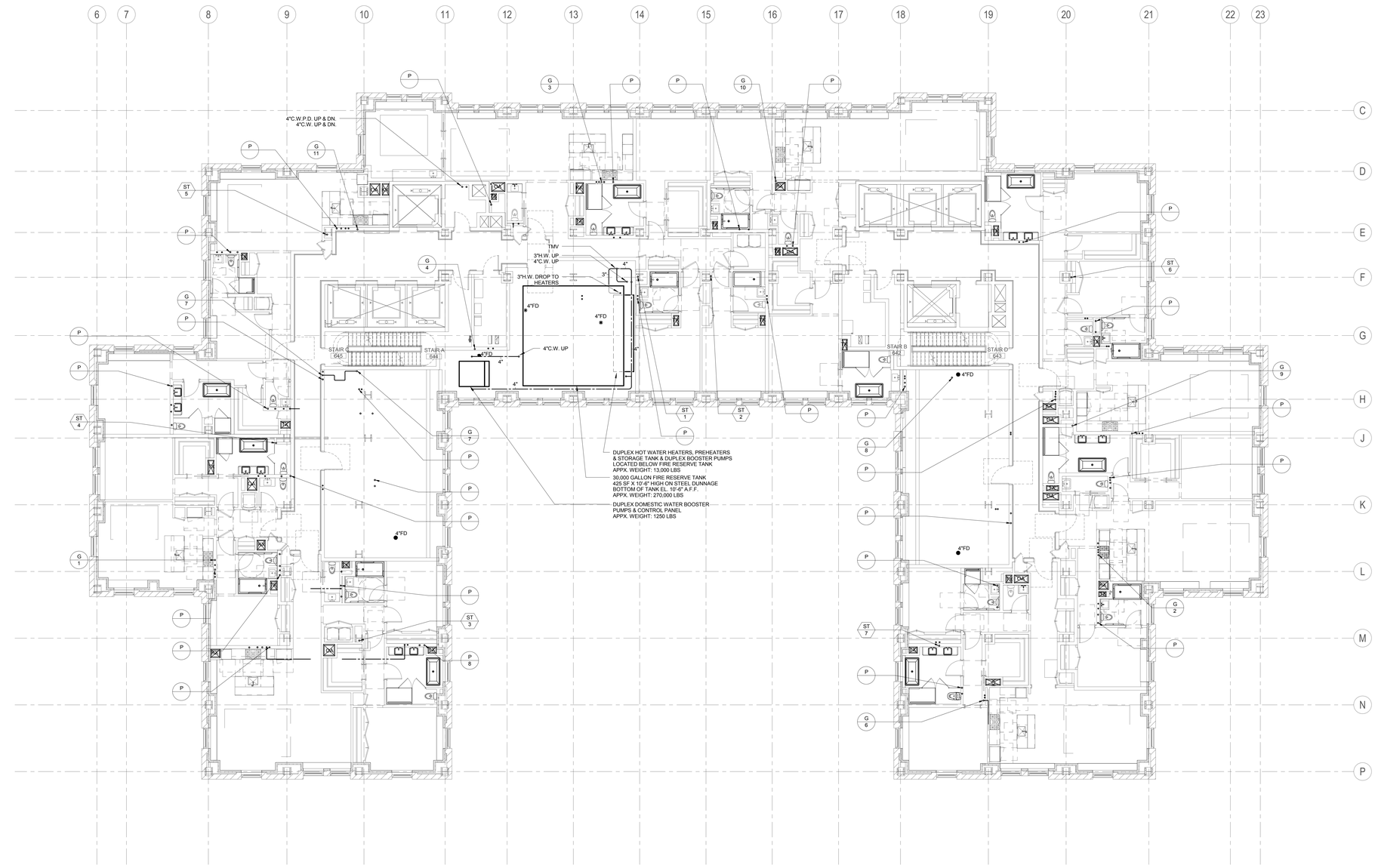

1 PLUMBING - LEVEL 32
1/8" = 1'-0"

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PLUMBING 32ND FLOOR PLAN

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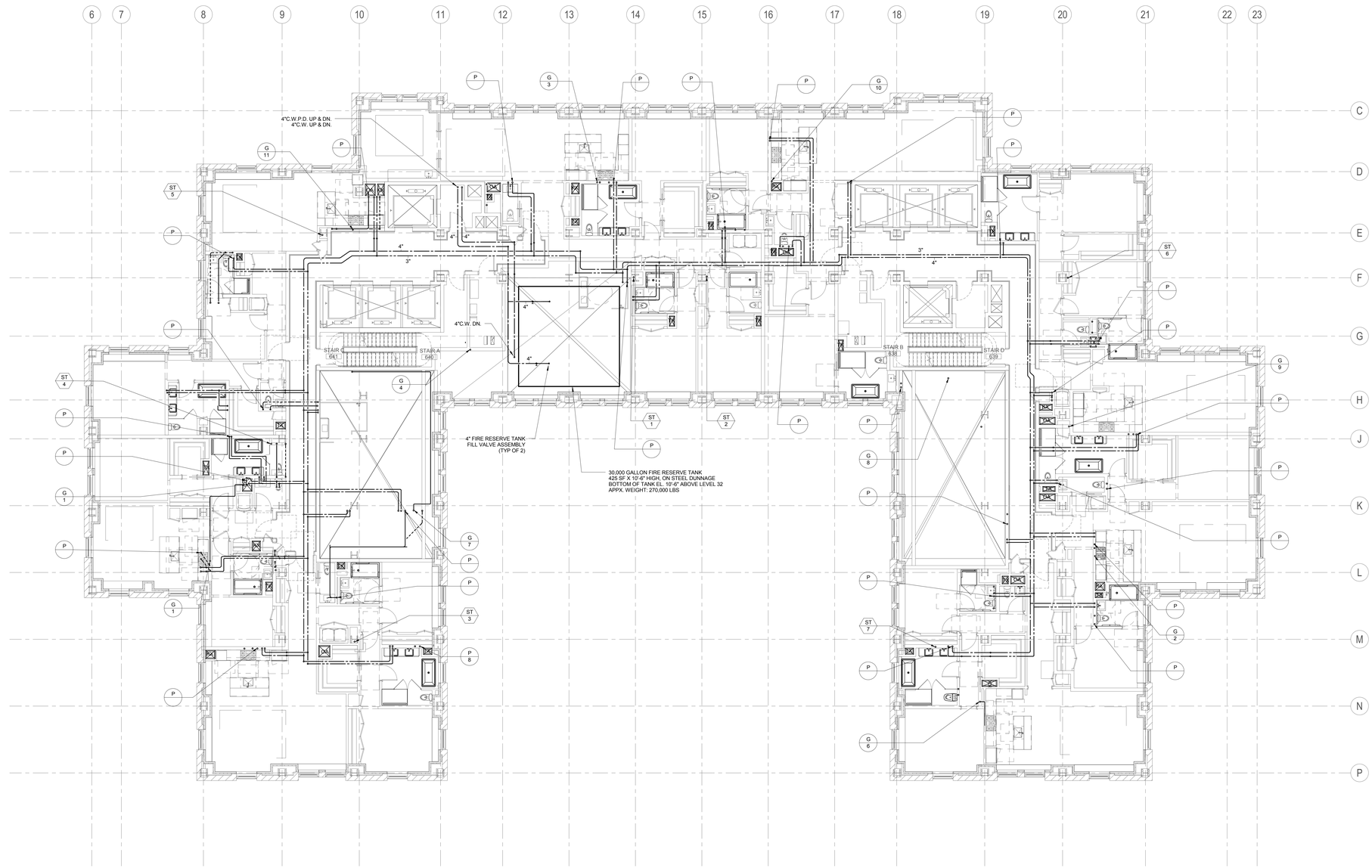

1 PLUMBING - LEVEL 33
1/8" = 1'-0"

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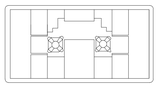

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PLUMBING 33RD FLOOR PLAN

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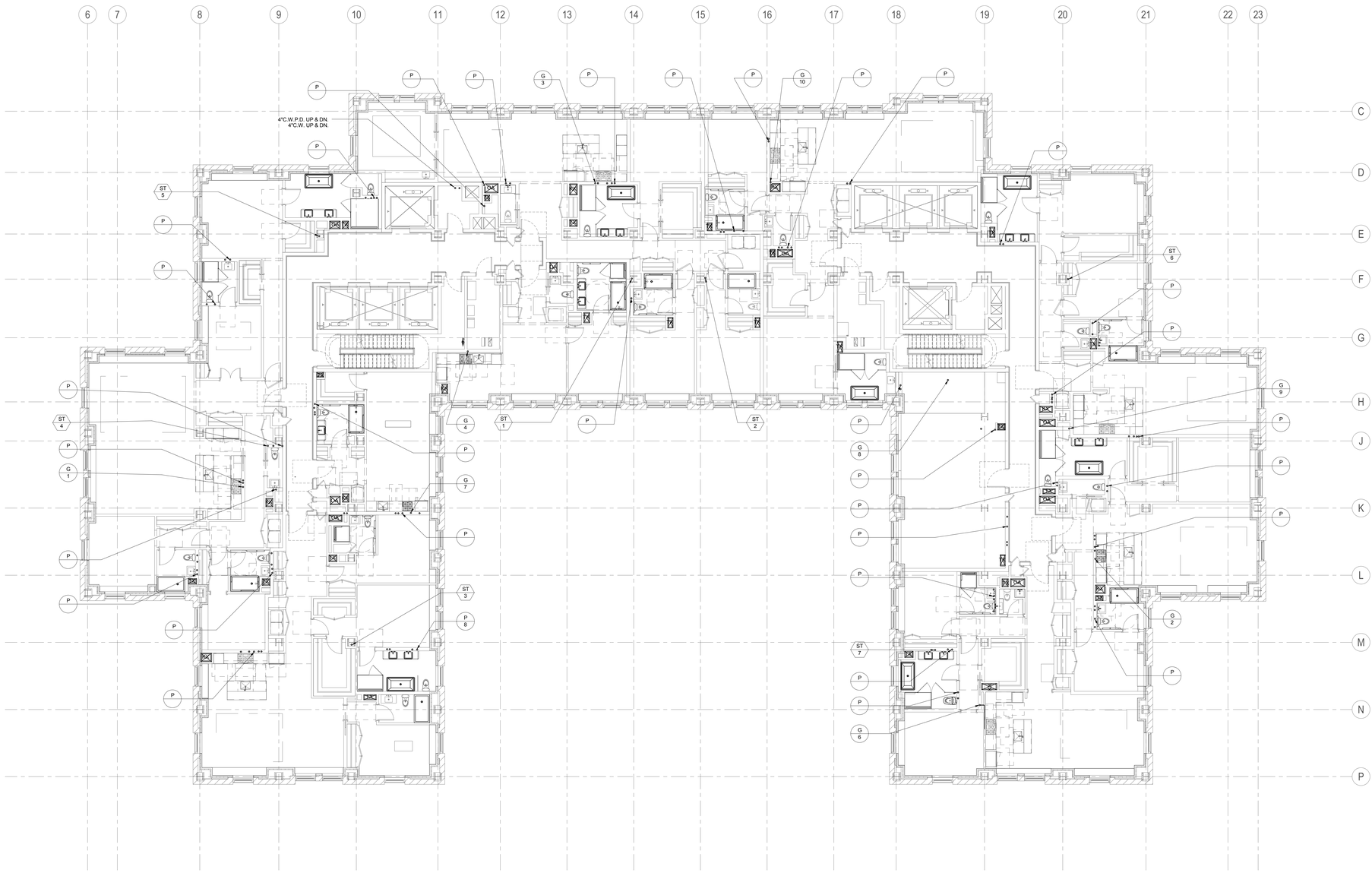

1 PLUMBING - LEVEL 34
1/8" = 1'-0"

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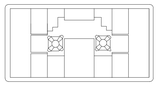

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PLUMBING 34TH THRU 36TH FLOOR PLAN

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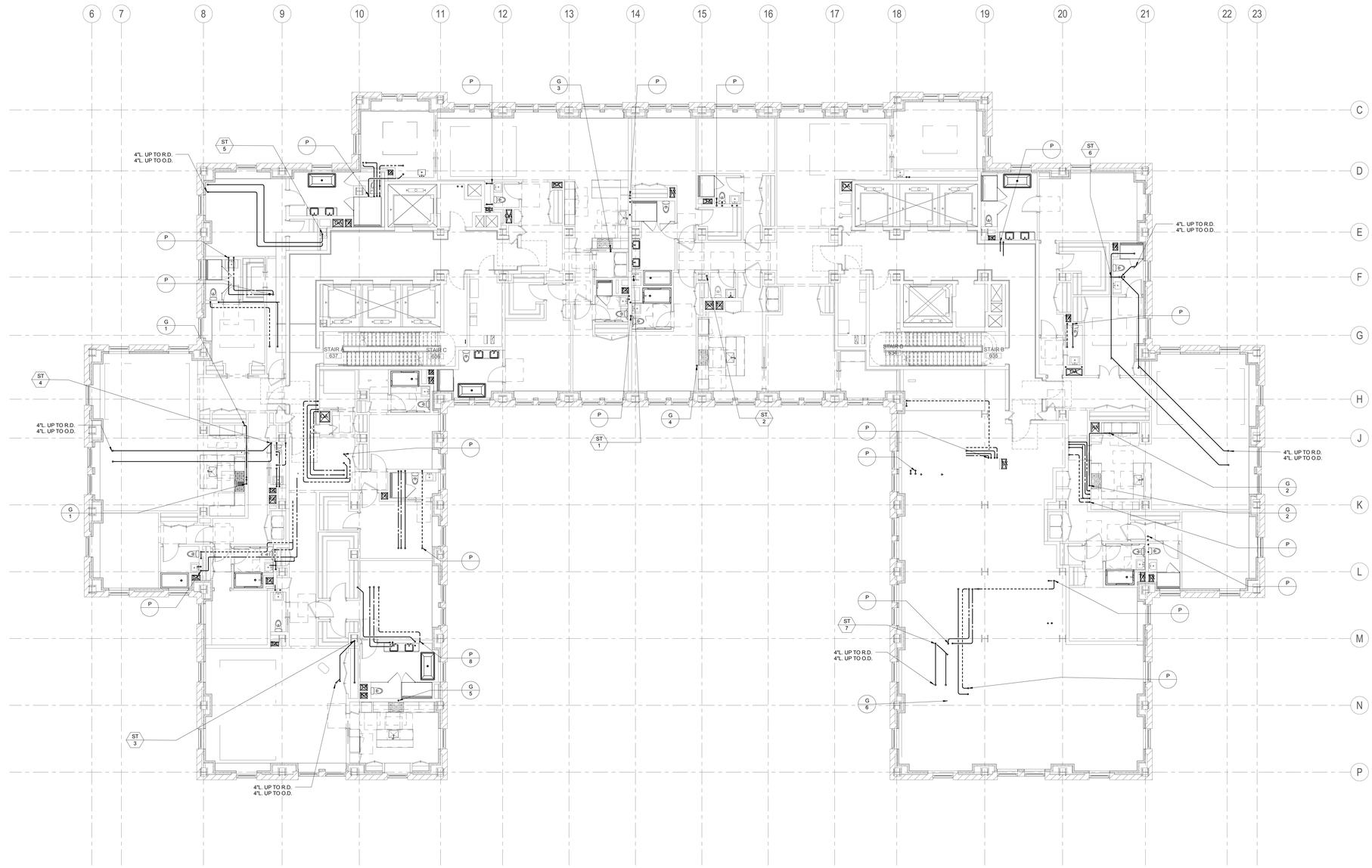

1 PLUMBING - LEVEL 37
1/8" = 1'-0"

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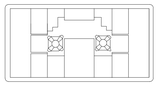

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PLUMBING 37TH FLOOR PLAN

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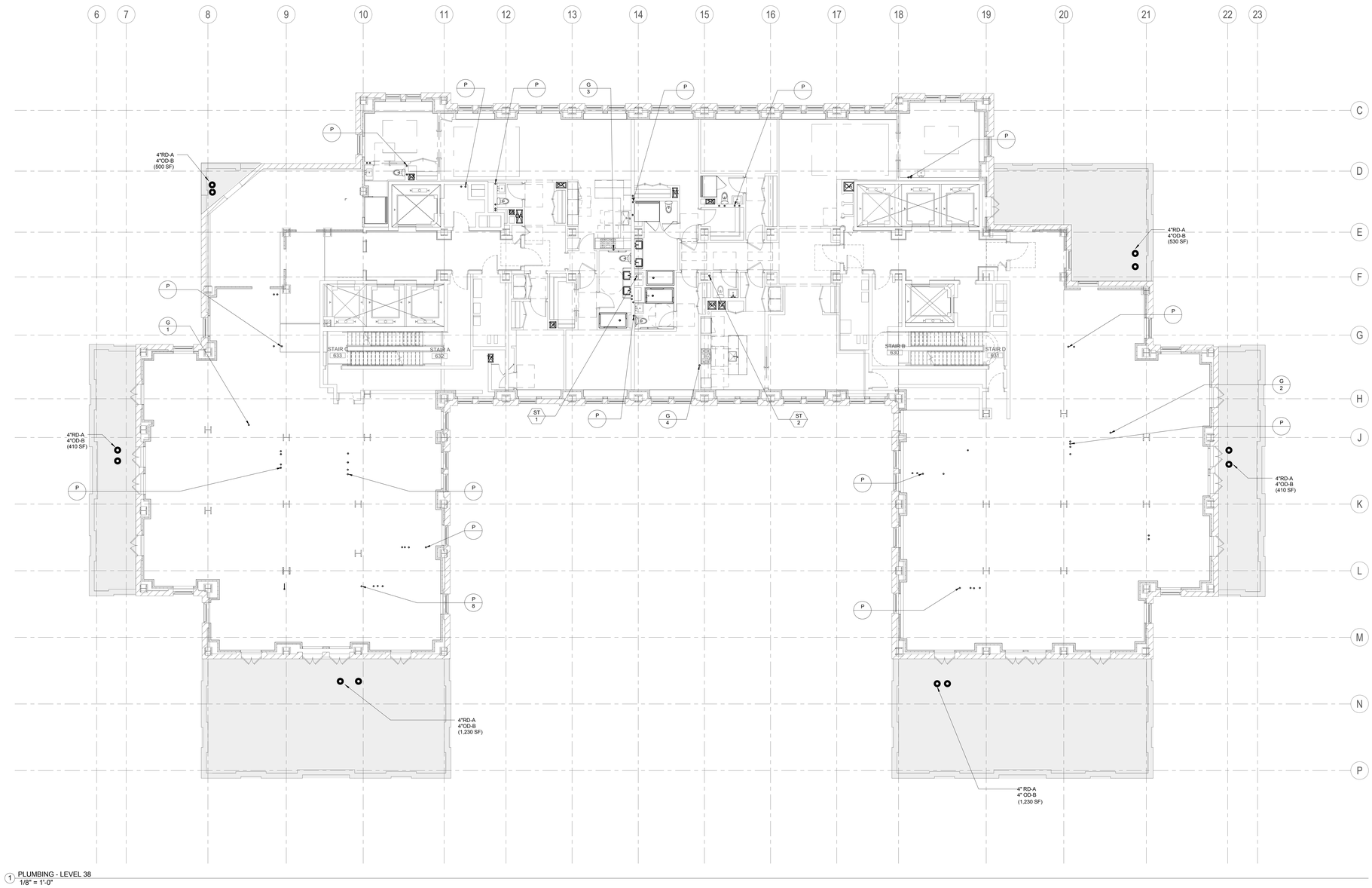

1 PLUMBING - LEVEL 38
1/8" = 1'-0"

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PLUMBING 38TH FLOOR PLAN

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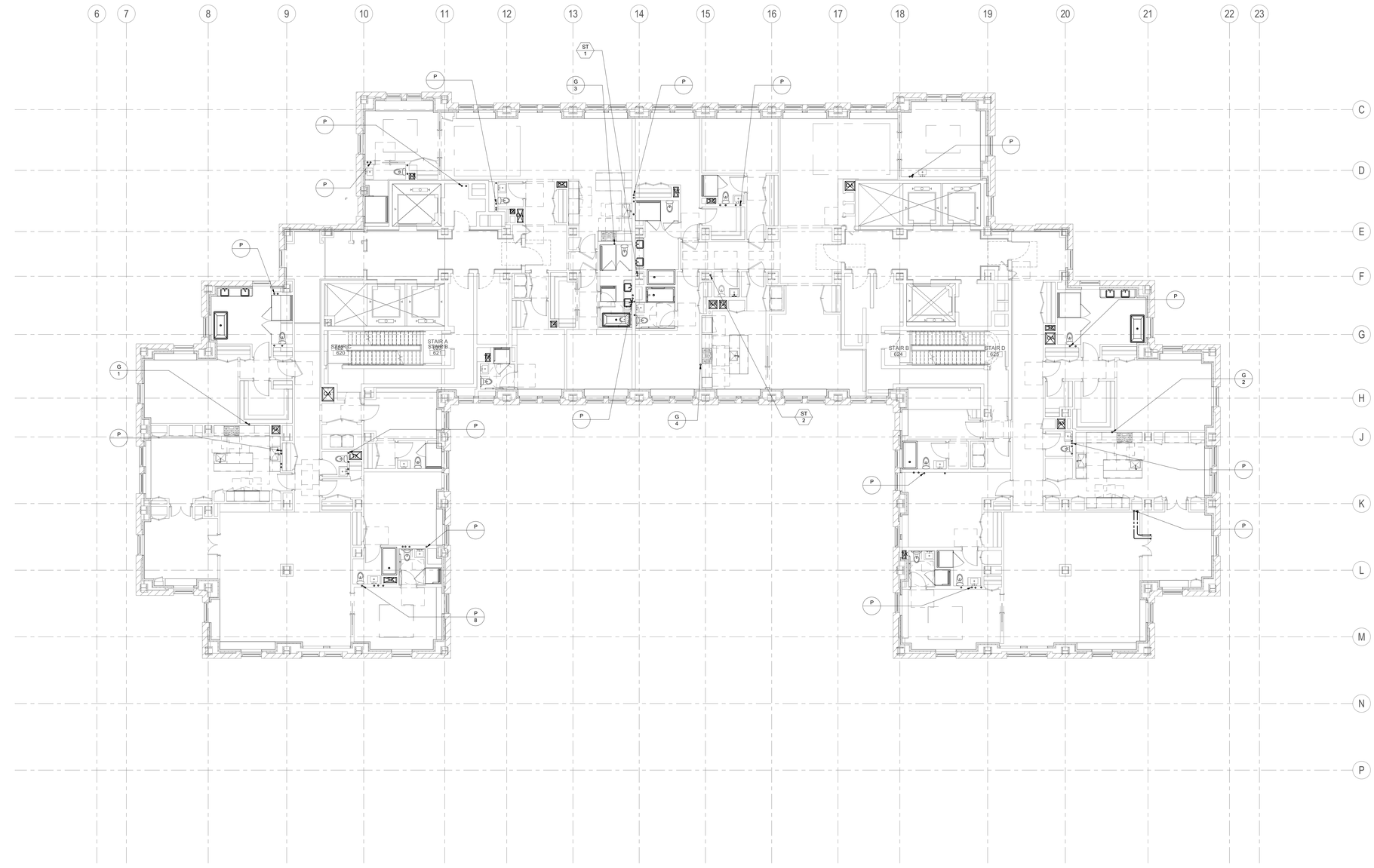

1 PLUMBING - LEVEL 40
1/8" = 1'-0"

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PLUMBING 39-40TH FLOOR PLAN

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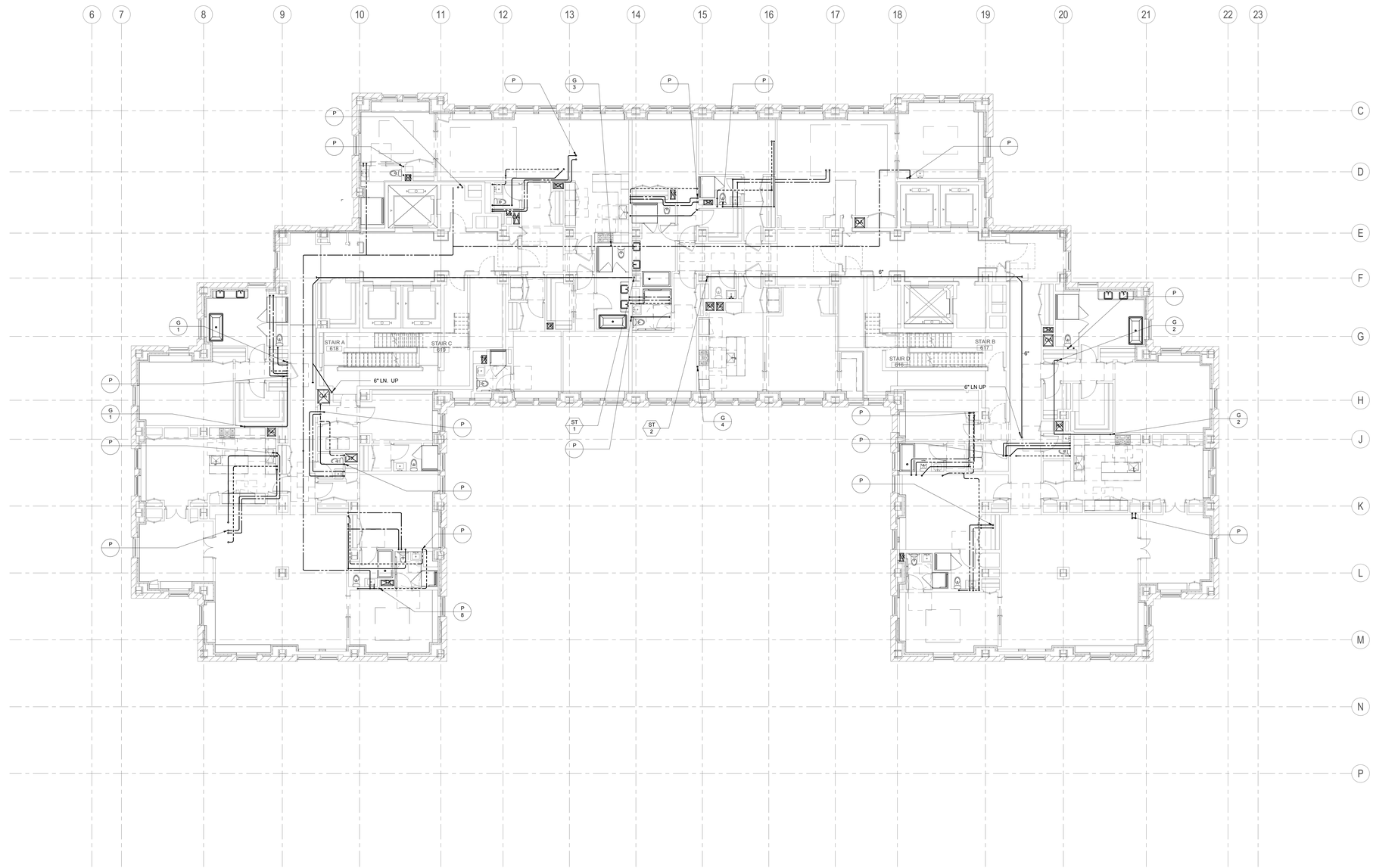

1 PLUMBING - LEVEL 41
1/8" = 1'-0"

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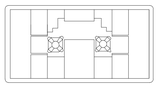

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PLUMBING 41ST FLOOR PLAN

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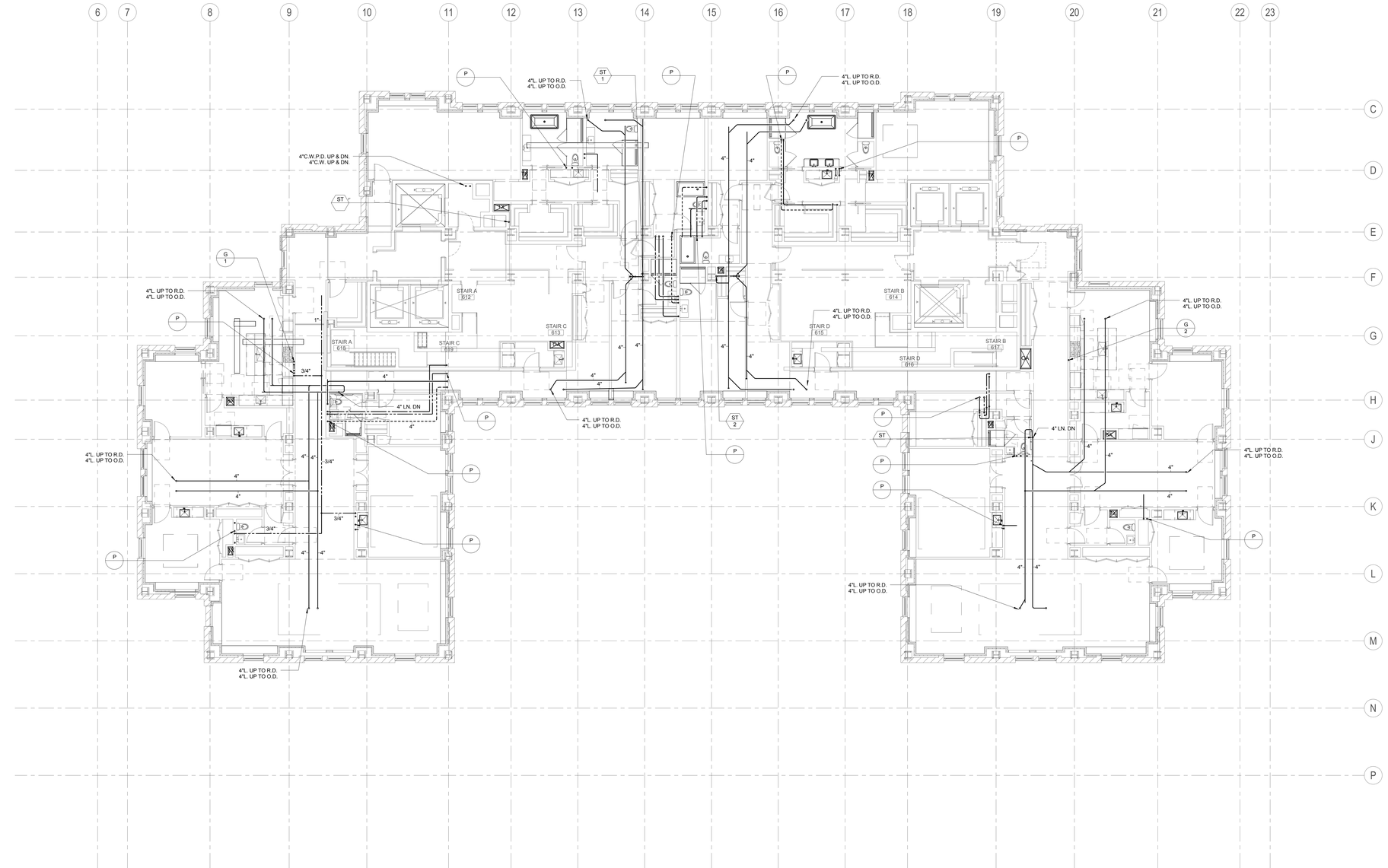

1 PLUMBING - LEVEL 42
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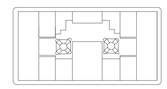

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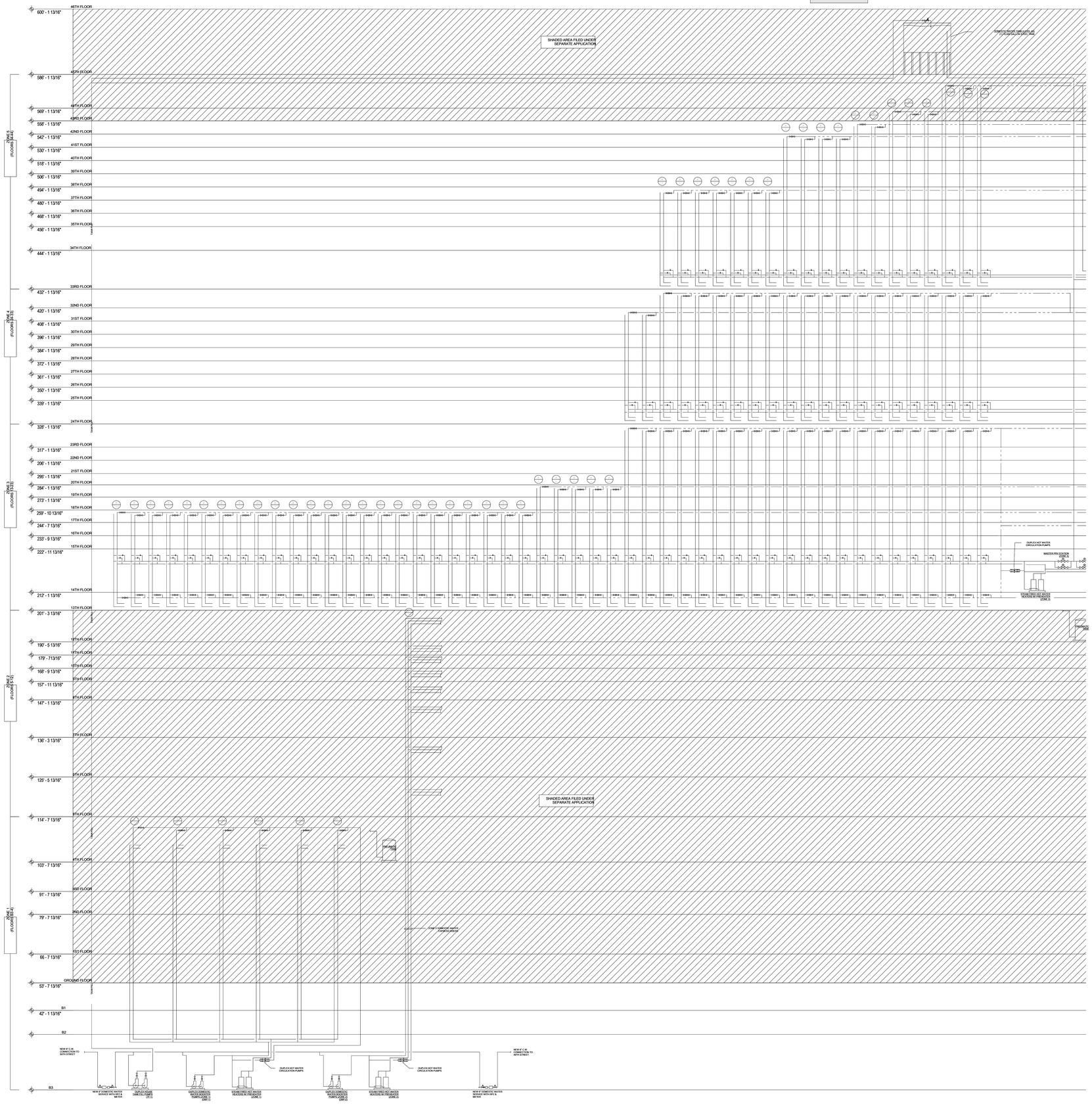

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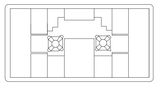

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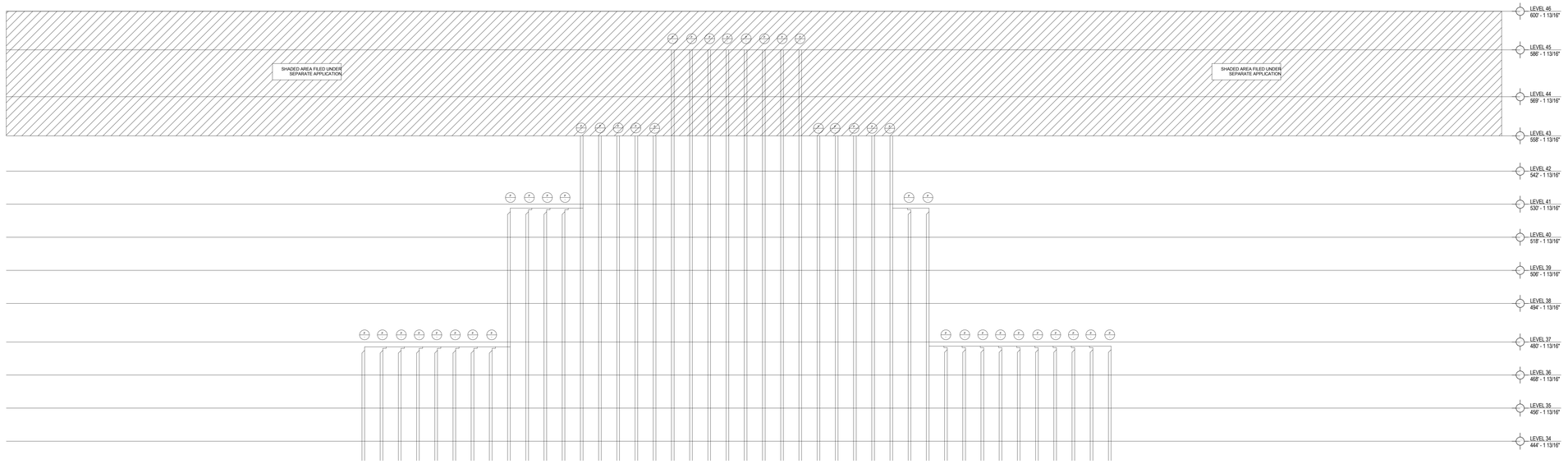

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273' - 1 13/16"

18TH FLOOR
259' - 10 13/16"

17TH FLOOR
244' - 7 13/16"

16TH FLOOR
233' - 9 13/16"

15TH FLOOR
222' - 11 13/16"

14TH FLOOR
212' - 1 13/16"

13TH FLOOR
201' - 3 13/16"

12TH FLOOR
190' - 5 13/16"

11TH FLOOR
179' - 7 13/16"

10TH FLOOR
168' - 9 13/16"

9TH FLOOR
157' - 11 13/16"

8TH FLOOR
147' - 1 13/16"

7TH FLOOR
136' - 3 13/16"

6TH FLOOR
125' - 5 13/16"

5TH FLOOR
114' - 7 13/16"

4TH FLOOR
103' - 7 13/16"

3RD FLOOR
91' - 7 13/16"

2ND FLOOR
79' - 7 13/16"

1ST FLOOR
66' - 7 13/16"

GROUND FLOOR
53' - 7 13/16"

B1
42' - 1 13/16"

B2

B3

NOT IN CONTRACT

COOLING TOWER MAKE-UP

SHADED AREA FILED UNDER SEPARATE APPLICATION

SECONDARY OVERFLOW OUTLET AT BUILDING WALL

16" PINCH VALVE (NORMALLY OPEN)

SOF

ELEVATOR SUMP PIT & PUMP

DUPLEX STORM WATER DETENTION TANK PUMPS

STEEL STORM WATER DETENTION TANK (90,000 GALLONS STORAGE)

STORM WATER FILTRATION & DUPLEX COOLING TOWER MAKE-UP PUMPS

Waldorf Astoria

301 Park Avenue
New York, NY, 10022

OWNER

ANBANG GROUP 安邦集团

ARCHITECT

SOM

Skidmore, Owings & Merrill LLP

STRUCTURAL ENGINEER

Silman

MEPF & SITE CIVIL ENGINEER

Stantec Inc.

VERTICAL TRANSPORTATION

Van Deusen & Associates

CODE CONSULTING

Code Consultants, Inc.

LOGISTICS CONSULTANT

Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING

Philip Habib & Associates

EXTERIOR WALL CONSULTANT

WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA

APPROVED
Under Directive 2 of 1975

Date: 07/14/2017

NYC Development Hub

KEYPLAN

SEAL

STATE OF NEW YORK
AZMI ZAHED ATKINS
087195
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	10 APR 2017	ISSUED TO DOB Rev01
1	10 APR 2017	ISSUED TO DOB

DRAWING TITLE

PLUMBING STORM WATER RISER DIAGRAM SHEET

B-SCAN - DRAWING NUMBER

P-505.00

PAGE NUMBER

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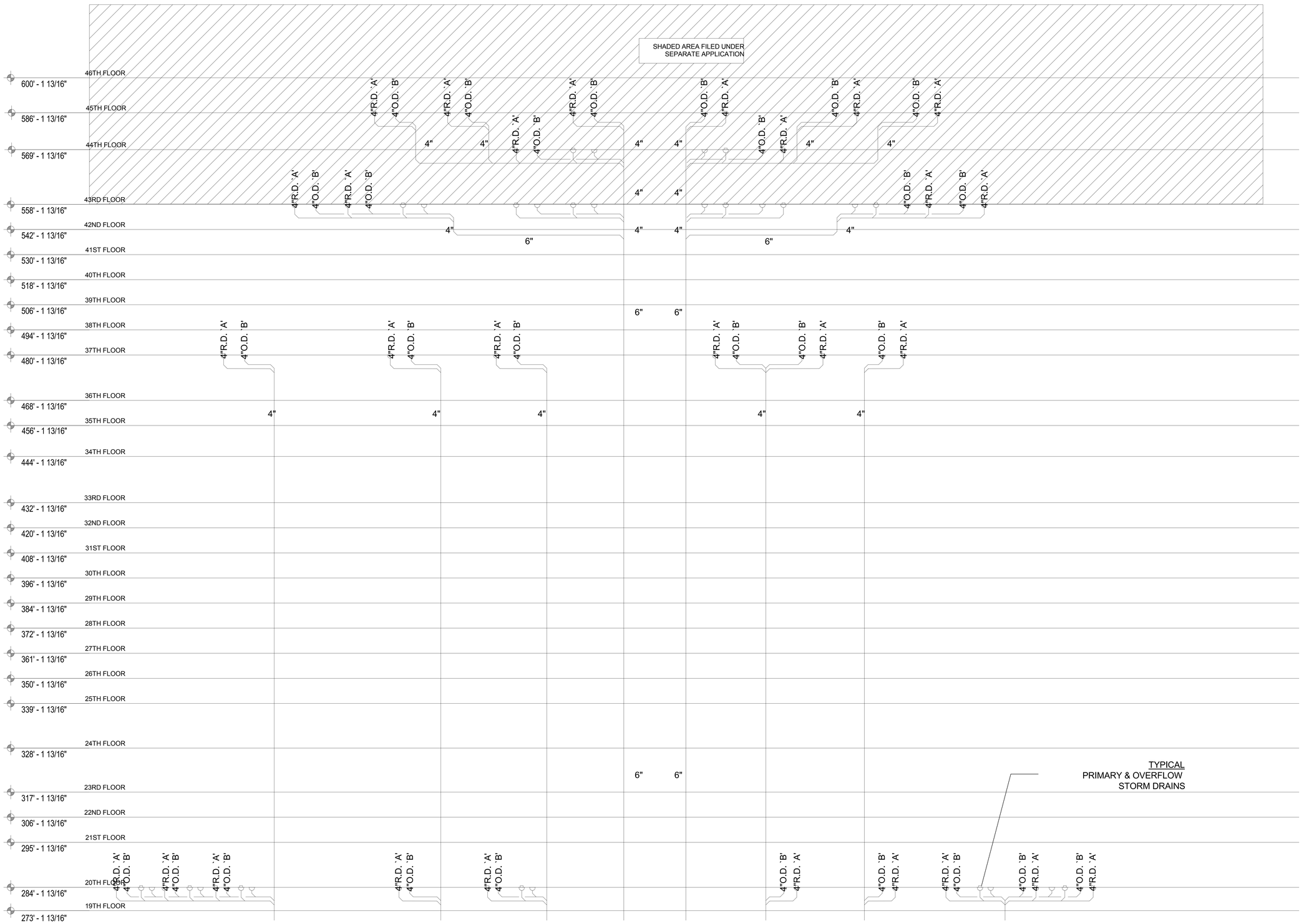

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SECURITY CONSULTANT

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Azmi Zahed-Atkins, RA

APPROVED
Under Directive 3 of 1975

Date: 07/14/2017
NYC Development Hub

KEYPLAN:

SEAL

STATE OF NEW YORK · AZMI ZAHED-ATKINS · LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

PLUMBING STORM WATER RISER DIAGRAM SHEET

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P-506.00

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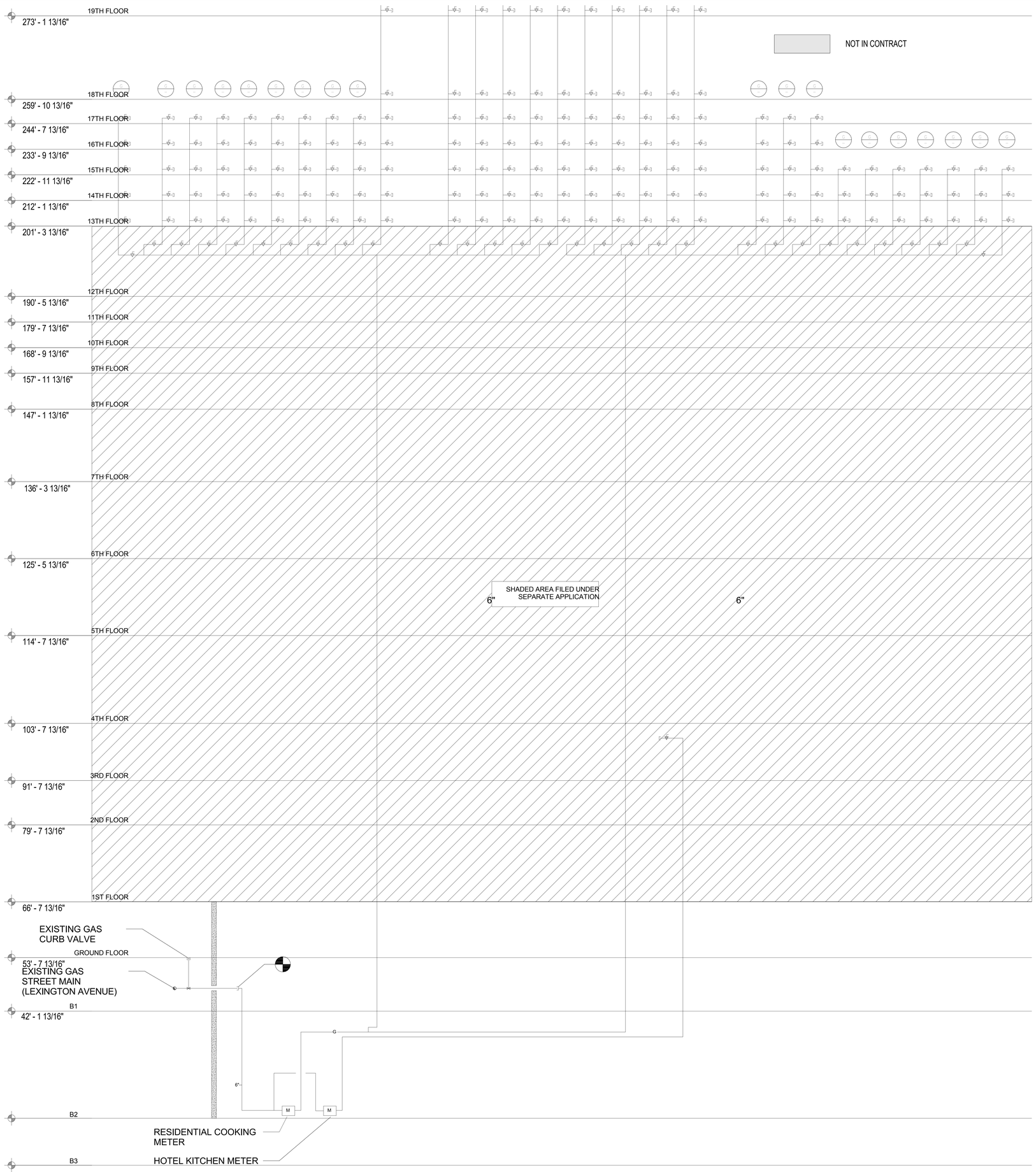

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1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

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Date: 07/14/2017
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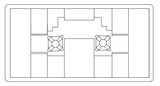
KEYPLAN



SEAL

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

PLUMBING NATURAL GAS RISER DIAGRAM SHEET

B-SCAN - DRAWING NUMBER

P-508.00

PAGE NUMBER

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MATERIAL SCHEDULE

PIPE

SYSTEMS	EXTRA HEAVY CAST IRON (E.H.C.I.)	CAST IRON SOIL PIPE (C.I.S.P.)	DUCTILE IRON AWWA/C151	SCH. 40, 316 STAINLESS STL	SCH. 40, 304 STAINLESS STL	DURION A.R.C.I.	SCHEDULE 40 BLACK STEEL	SCHEDULE 40 GALVANIZED STEEL	TYPE "K" COPPER TUBING	TYPE "L" COPPER TUBING	TYPE "M" COPPER TUBING	D.I.W.P. (CEMENT LINED)	D.I.W.P. (GROOVED ENDS)	GLASS	POLYPROPYLENE P.P.	C.P.V.C. SCHEDULE 80
HOUSE DRAINS		○														
SANITARY STACKS (10" & SMALLER)		○														
SANITARY STACKS (12" & LARGER)		○														
SANITARY BRANCHES		○														
VENTS		○														
LEADERS STACKS (2ND - ROOF 10" & SMALLER)		○														
LEADER STACKS (2ND-ROOF, 12" & LARGER)		○														
LEADER STACKS (B3-2ND, 12" & LARGER)								○								
LEADER & SANITARY STACKS (BELOW 2ND FLOOR)								○								
LEADER RUNOUTS		○														
LEADER DRAINS		○														
C.W.										○						
PUMP DISCHARGE (HOUSE PUMP & C.T. DISCHARGE)					○											
H.W. AND H.W.C.										○						
NATURAL GAS SYSTEM (1/2" TO 2 1/2")							○									
NATURAL GAS SYSTEM (3" & LARGER)							○									
EJECTOR DISCHARGE								○								
SUMP DISCHARGE								○								
C.W. SERVICE												○				
INDIRECT WASTE											○					
INDIRECT STACKS		○														
IRRIGATION SUPPLY										○						

FITTINGS

SYSTEMS	C.I. NO-HUB	EXTRA HEAVY CAST IRON (E.H.C.I.)	C.I. SOIL	DUCTILE IRON AWWA C110/C153	DUCTILE IRON (GROOVED ENDS)	DUCTILE IRON CLASS 350 (LINED)	STD.C.I.-175# W.W.P.	EX. H. C.I. 400# W.W.P.	STD. C.I. FLG.-175# W.W.P.	STD. MALL.-300# W.W.P.	DURION A.R.C.I.	CAST BRONZE-175# W.W.P.	CAST BRONZE-400# W.W.P.	POLYPROPYLENE P.P.	SOLDER FITTINGS	C.P.V.C. SCHEDULE 80	GLASS	SCH. 40 BLACK STEEL	SCHEDULE 40 GALVANIZED	SCHEDULE 40 STAINLESS STEEL
HOUSE DRAINS			○																	
SANITARY STACKS (10" & SMALLER)	○																			
SANITARY STACKS (12" & LARGER)			○																	
SANITARY BRANCHES	○																			
VENTS	○																			
LEADERS STACKS (2ND - ROOF 10" & SMALLER)	○																			
LEADER STACKS (2ND-ROOF, 12" & LARGER)			○																	
LEADER STACKS (B3-2ND, 12" & LARGER)																			○	
LEADER & SANITARY STACKS (BELOW 2ND FLOOR)																			○	
LEADER RUNOUTS	○																			
LEADER DRAINS			○																	
C.W.															○					
PUMP DISCHARGE (HOUSE PUMP & C.T. DISCHARGE)																				○
H.W. AND H.W.C.															○					
NATURAL GAS SYSTEM (1/2" TO 2 1/2")																		○		
NATURAL GAS SYSTEM (3" & LARGER)																		○		
EJECTOR DISCHARGE																			○	
SUMP DISCHARGE																			○	
C.W. SERVICE				○																
INDIRECT WASTE															○					
INDIRECT STACKS			○																	
IRRIGATION SUPPLY															○					

JOINTS

SYSTEMS	CAULKED	THREADED	SCH. 40 WELDED	SOLDERED 95-5 (LEAD FREE)	GALVANIZED GROOVED	PUSH-ON JOINT - AWWA C11	S.S. COUPLING	BRAZED	SCH. 40 GROOVED STAINLESS STEEL	NO-HUB S.S. COUPLING (HEAVY DUTY)	GASKET	SOLVENT WELDED
HOUSE DRAINS											○	
SANITARY STACKS (10" & SMALLER)										○		
SANITARY STACKS (12" & LARGER)											○	
SANITARY BRANCHES										○		
VENTS										○		
LEADERS STACKS (2ND - ROOF 10" & SMALLER)										○		
LEADER STACKS (2ND-ROOF, 12" & LARGER)											○	
LEADER STACKS (B3-2ND, 12" & LARGER)					○							
LEADER & SANITARY STACKS (BELOW 2ND FLOOR)					○							
LEADER RUNOUTS										○		
LEADER DRAINS											○	
C.W.				○								
PUMP DISCHARGE (HOUSE PUMP & C.T. DISCHARGE)									○			
H.W. AND H.W.C.				○								
NATURAL GAS SYSTEM (1/2" TO 2 1/2")		○										
NATURAL GAS SYSTEM (3" & LARGER)			○									
EJECTOR DISCHARGE					○							
SUMP DISCHARGE					○							
C.W. SERVICE						○						
INDIRECT WASTE				○								
INDIRECT STACKS										○		
IRRIGATION SUPPLY				○								

NOTE: THIS VALVE SCHEDULE IS BASED ON MILWAUKEE VALVES

PLUMBING VALVE SCHEDULE

VALVE SPECIFICATION

TYPE	MILWAUKEE FIG. NO.	SIZE	FLANGED	SCREWED	SOLDER	SOCKET	BRASS	W/ADAPTER	O.S.&Y.	N.R.S.	BRONZE	I.B.B.M.	ALL IRON	CAST STEEL	HOSE END	175# WWP	200# WWP	250# WWP	300# WWP	400# WWP	500# WWP	600# WWP	960# WWP	1440# WWP	BURIED SERV.
GATE VALVES	115	3/8"-3"			○					○	○						○								
	105	1/4"-3"		○						○	○						○								
	F-2885	2"-12"	○						○			○					○								
	F-2882	2"-12"	○							○		○					○								
	G-743**	2"-16"						○		○		○					○								○
BALL VALVES	BA-100	1/4"-2"		○			○															○			
	BA-150	1/4"-2"			○		○															○			
CHECK VALVES	F-2974	2"-12"	○									○					○								
	G927**	2"-6"		○								○					○								
	2974	2"-12"	○									○					○								
	510T	1/4"-2"		○							○								○						
	1509	3/8"-3"			○						○						○								
GLOBE & ANGLE VALVES	502	1/8"-3"		○							○														
	1590T	3/8"-3"			○						○								○						
	595T	1/8"-3"		○							○								○						
	F-2981	2"-10"	○						○			○					○								
	24***	3/4"-3"		○						○	○				○		○								
	F-541**	3'-8"	○									○									○				
PLUG VALVES	611*	1/2"-6"		○									○				○								
	611*	1"-4"		○									○			○									
	612*	1"-8"	○										○				○								

LOCATION

TYPE	MILWAUKEE FIG. NO.	SIZE	REQ.AT EQUIP.	SUMP DISCH.	EJECT.DISCH.	GAS	C.W.SERVICE	C.W. 4"& UP	C.W. 3"& DN	HW HWC 4"&UP	HW HWC 3"&DN	D.W. D.W.C.	C.W. 2"& DN	HW HWC 2"&DN
GATE VALVES	115	3/8"-3"							○		○	○		
	105	1/4"-3"							○					
	F-2885	2"-12"	○	○	○			○		○				
	F-2882	2"-12"												
	G-743**	2"-16"					○							
BALL VALVES	BA-100	1/4"-2"											○	○
	BA-150	1/4"-2"											○	○
CHECK VALVES	F-2974	2"-12"						○		○				
	G927**	2"-6"												
	2974	2"-12"		○	○									
	510T	1/4"-2"												
	1509	3/8"-3"							○		○	○		
GLOBE & ANGLE VALVES	502	1/8"-3"							○		○			
	1590T	3/8"-3"									○	○		
	595T	1/8"-3"												
	F-2981	2"-10"												
	24***	3/4"-3"							○		○	○		
	F-541**	3'-8"	○											
PLUG VALVES	611*	1/2"-6"				○								
	611*	1"-4"				○								
	612*	1"-8"				○								

* HOMESTEAD FIGURE NUMBERS
** STOCKHAM FIGURE NUMBERS
*** WALWORTH FIGURE NUMBERS

DOMESTIC HOT WATER GENERATING STATION SCHEDULE

AERCO/HUBBELL/FPS AS STANDARD

NOT IN CONTRACT

DESIGNATION	LOCATION	SERVICE	PLUMBING DATA: NOMINAL CAPACITY MBH	MIN NET OUTPUT GPH	DHW RISE (DEG F)	STORAGE (GAL)	WORKING PRESSURE (PSIG)	HEAT RECOVERY (PREHEATER) DATA: DHW RISE (DEG F)	WORKING PRESSURE (PSIG)	CONDENSER FLOW (GPM)	CONDENSER TEMP DEG F)	WORKING PRESSURE (PSIG)	DHWG ELECTRICAL: [illegible]	[illegible]	PHM ELECTRICAL: [illegible]MPS	V/Ø/Hz	PHYSICAL DATA- DHWG SKID: DIMENSIONS L X W X H (INCHES)	SHIPPING WEIGHT (LBS)	OPERATING MAX WEIGHT (LBS)	PHYSICAL DATA- PRE HEAT MODULE: DIMENSIONS L X W X H (INCHES)	SHIPPING WEIGHT (LBS)	OPERATING MAX WEIGHT (LBS)	OPTIONAL ACCESSORIES	DHWG MANUFACTURERS SERIES
DHWG-1	B3 LEVEL	ZONE 1	–	–	40–140	–	150	40–85	150	–	–	150	[illegible]	[illegible]	[illegible]) 30	120/1/60	48x48x75	2800	2800	48x48x75	2800	2800	2-WAY/3-WAY FCV	DHWG-HX-PHM
DHWG-2	B3 LEVEL	ZONE 2	–	–	40–140	–	150	40–85	150	–	–	150	(2) 30	120/1/60	(1) 30	120/1/60	48x48x75	2800	2800	48x48x75	2800	2800	2-WAY/3-WAY FCV	DHWG-HX-PHM
DHWG-3	LEVEL 18	ZONE 3	–	–	40–140	–	150	40–85	150	–	–	150	(2) 30	120/1/60	(1) 30	120/1/60	48x48x75	2800	2800	48x48x75	2800	2800	2-WAY/3-WAY FCV	DHWG-HX-PHM
DHWG-4	LEVEL 18	ZONE 4	–	–	40–140	–	150	40–85	150	–	–	150	(2) 30	120/1/60	(1) 30	120/1/60	48x48x75	2800	2800	48x48x75	2800	2800	2-WAY/3-WAY FCV	DHWG-HX-PHM
DHWG-5	LEVEL 33	ZONE 5	–	–	40–140	–	150	40–85	150	–	–	150	(2) 30	120/1/60	(1) 30	120/1/60	48x48x75	2800	2800	48x48x75	2800	2800	2-WAY/3-WAY FCV	DHWG-HX-PHM

1. INTEGRATE WITH BAS/BOILER PLANT CONTROLS FOR EMERGENCY MODE AND HIGH MIXING VALVES MODES, SIGNALS, AND ALARMS.
2. MIXING VALVE TEMPERATURE SENSOR FIELD INSTALLED.
3. INSULATION SHALL BE FIELD APPLIED AS PER INSULATION SPECIFICATION REQUIREMENTS AND ENERGY CODE.

FIXTURE CONNECTION SCHEDULE

FIXTURE	ABBR	H.W.	C.W.	W	V	REMARKS
WATER CLOSET	WC	——	3/4"	4"	2"	REFER TO ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL FIXTURE SPECIFICATIONS & SCHEDULES
LAVATORY	LAV	1/2"	1/2"	1-1/2"	1-1/2"	
SHOWER	SH	1/2"	1/2"	2"	1-1/2"	
KITCHEN SINK	SK	1/2"	1/2"	3"	1-1/2"	
BATHTUB	BT	1/2"	1/2"	2"	1-1/2"	

WHERE HOT OR COLD WATER SUPPLIES MORE THAN ONE FIXTURE, MINIMUM SIZE SHALL BE 3/4" DIA. EXCEPT FOR FLUSH VALVE FIXTURE.

WATER HAMMER ARRESTOR SCHEDULE

FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
PDI UNITS	A	B	C	D	E	F
PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"

NOTE:
SIZING BASED ON 50 FT LENGTH AND WATER PRESSURE UP TO 65 PSIG WHEN WATER PRESSURE IN LINE EXCEEDS 65 PSI, SELECT NEXT LARGER SIZE
PDI - PLUMBING &DRAINAGE INSTITUTE

PUMP SCHEDULE

DESIGNATION	DESCRIPTION	NO. REQUIRED	G.P.M. (EACH)	T.D.H. (FEET HEAD)	MODEL NO.	MECH. SEAL	STAGES	END SUCTION	VERTICAL	WORKING PRESS.	H.P.	R.P.M.	VOLTS	PHASE	CYCLE	MANUAL CONTROL	STARTING STEPS	AUTO CONTROL	PILOT LIGHT	PRESSURE GAUGE RANGE	CONTROL CENTER	EMERGENCY POWER	SUBMERSIBLE PUMPS	WX-451C-CUSHION TANK-158 GAL
DBP-1	DOMESTIC WATER BOOSTER PUMPS (ZONE 1)	2	100	165	-	-	-	-	○	-	7	-	208	3	60	-	-	-	-	0-300	-	-	-	○
DBP-2	DOMESTIC WATER BOOSTER PUMPS (ZONE 2)	2	100	285	-	-	-	-	○	-	15	-	208	3	60	-	-	-	-	0-300	-	-	-	○
DBP-3	DOMESTIC WATER BOOSTER PUMPS (ZONE 3)	2	50	87	-	-	-	-	○	-	2	-	208	3	60	-	-	-	-	0-300	-	-	-	-
TFP-1	TANK FILL PUMPS	2	125	530	-	-	-	○	-	-	35	-	208	3	60	-	-	-	-	0-300	-	-	-	-
EJ-1	EJECTOR PUMP	4	100	50	-	-	-	-	-	-	3	-	208	3	60	-	-	-	-	0-300	-	-	○	-
SP-1	SUMP PUMP	2	100	50	-	-	-	-	-	-	3	-	208	3	60	-	-	-	-	0-300	-	-	○	-
ESP-1	ELEVATOR SUMP PUMP	8	50	40	-	-	-	-	-	-	1	-	208	3	60	-	-	-	-	0-300	-	-	○	-
HWC-1	HOT WATER CIRCULATION PUMP	2	15	30	-	-	-	-	-	-	1/2	-	115	1	60	-	-	-	-	0-300	-	-	-	-
HWC-2	HOT WATER CIRCULATION PUMP	2	15	30	-	-	-	-	-	-	1/2	-	115	1	60	-	-	-	-	0-300	-	-	-	-
HWC-3	HOT WATER CIRCULATION PUMP	2	15	30	-	-	-	-	-	-	1/2	-	115	1	60	-	-	-	-	0-300	-	-	-	-
HWC-4	HOT WATER CIRCULATION PUMP	2	15	30	-	-	-	-	-	-	1/2	-	-	-	-	-	-	-	-	0-300	-	-	-	-
HWC-5	HOT WATER CIRCULATION PUMP	2	15	30	-	-	-	-	-	-	1/2	-	-	-	-	-	-	-	-	0-300	-	-	-	-
SWP-1	STORM WATER DETENTION TANK PUMP	2	112.2	50	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	0-300	-	-	-	-
CTMU-1	COOLING TOWER MAKE-UP PUMP	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0-300	-	-	-	-

DRAIN SCHEDULE

BODY

DESIGNATION	REQUIRED	ZURN SERIES NO.	CAST IRON	LACQUER COATED	STAINLESS STEEL	ALL BRONZE	NICKEL BRONZE	POLYMER CONCRETE	BOTTOM OUTLET	45 OUTLET	SIDE OUTLET	OTHER OUTLET	CLAMPING DEVICE	BACK WATER VALVE	THREADED OUTLET	NO HUB	R.D. RECIEVER PLATE
A	○	Z-100	○	○					○				○			○	
B	○	Z-100	○	○					○				○			○	
C	○	Z-526	○	○					○				○			○	
D	○	Z-415	○	○					○							○	
E	○	Z-154	○	○					○				○			○	

STRAINER / REMARKS

DESIGNATION	ACID RESISTANT COATED	INSIDE GASKET	CAST IRON	LACQUER COATED	STAINLESS STEEL	DUCTILE IRON	SEDIMENT BUCKET	SECONDARY STRAINER	BRONZE	NICKEL BRONZE	CHROME PLATED	POLISHED FINISH	SATIN FINISH (STAINLESS STEEL)	TRACTOR GRATE	SOLID COVER	HEEL PROOF GRATE	FLAT TOP	HIGH DOME	LOW DOME	EXTENSION PIECE	VERTICAL ADJUSTMENT	TOP SIZE	ANGLE TYPE	RAISED LIP	MESH SCREEN OVER DOME	GENERAL AREA OR LOCATION
A		○	○				○	○											○		○	15"				ROOF
B		○	○				○	○											○	○	○	15"				ROOF OVERFLOW
C		○	○				○	○						○			○				○	12"				MER
D		○							○								○				○	5"				TOILET RM.
E		○	○				○							○		○	○					12"				PAVER

PRESSURE VESSELS

DESIGNATION	NO. REQUIRED	MODEL	WATER TEMP. (°F)	WATER VOLUME (GALS.)	DIMENSIONS (L x W x H)	W.W.P.(PSI)	STEAM PRESSURE (PSIG)	G.P.H./HTR	TEMP. RISE F	BTU/HR.	STEAM CONDENSATE FLOW GPM	STEAM LOAD #/HR/HEATER	DOMESTIC WATER FLOW GPM EACH HTR	LOCATION
PNEUMATIC TANK (PT-1)	1	AMTROL	-	-	-	125	-	-	-	-	-	-	-	LEVEL 4
PNEUMATIC TANK (PT-2)	1	AMTROL	-	-	-	125	-	-	-	-	-	-	-	LEVEL 12
PNEUMATIC TANK (PT-3)	1	AMTROL	-	-	-	125	-	-	-	-	-	-	-	LEVEL 44

NON-PRESSURE VESSELS & PITS

	NO. REQUIRED	COMPARTMENTS	USABLE DOMESTIC WATER (GALLONS)	USABLE FSP/SPRINKLER (GALLONS)	USABLE COOLING TOWER MAKE-UP (GALLONS)	TOTAL USABLE WATER STORAGE (GALLONS)	SIZE	MATERIAL	LOCATION
EJECTOR PIT (EJ-1)	1	1	-	-	-	475	5-0" x 5-0" x 8'-0" DEEP	CONCRETE	BE LEVEL
SUMP PIT (SP-1)	1	1	-	-	-	265	5-0" x 5'-0" x 8'-0" DEEP	CONCRETE	BE LEVEL

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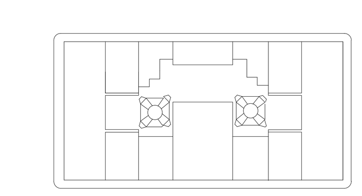
KEYPLAN



SEAL

NO.	DATE	DESCRIPTION
5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE
PLUMBING SCHEDULES

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P-601.00

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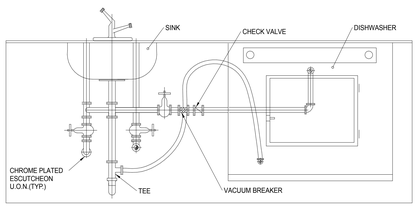
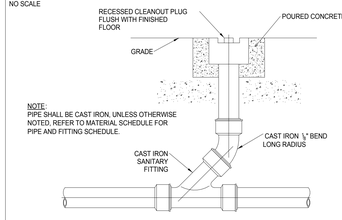
SCHEMATIC - DISHWASHER & SINK INSTALLATION

NO SCALE



FLOOR CLEANOUT DETAIL

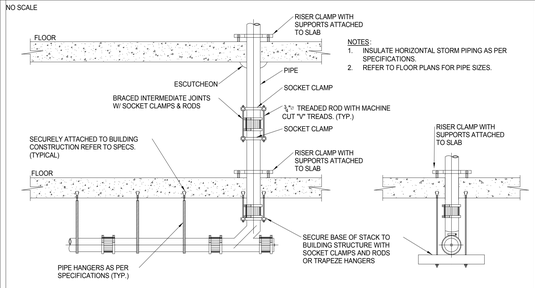
NO SCALE



NOTE:
PIPE SHALL BE CAST IRON, UNLESS OTHERWISE NOTED, REFER TO MATERIAL SCHEDULE FOR PIPE AND FITTING SCHEDULE.

NO-HUB PIPE BRACING FOR SANITARY & STORM PIPING

NO SCALE

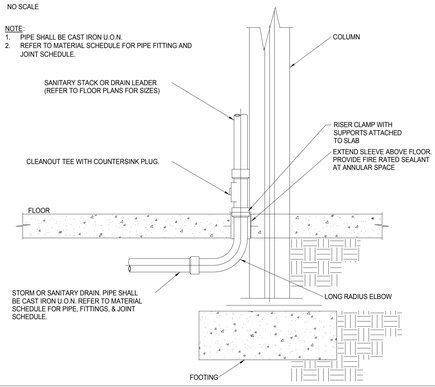


NOTES:
1. INSULATE HORIZONTAL STORM PIPING AS PER SPECIFICATIONS.
2. REFER TO FLOOR PLANS FOR PIPE SIZES.

DETAIL OF LEADER OR SANITARY STACK BASE W/ CLEANOUT.

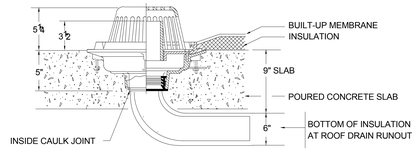
NO SCALE

NOTE:
1. PIPE SHALL BE CAST IRON U.O.N.
2. REFER TO MATERIAL SCHEDULE FOR PIPE FITTING AND JOINT SCHEDULE.



OVERFLOW ROOF DRAIN DETAIL

NOT TO SCALE



ROOF DRAIN DETAIL

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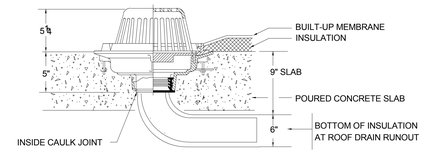
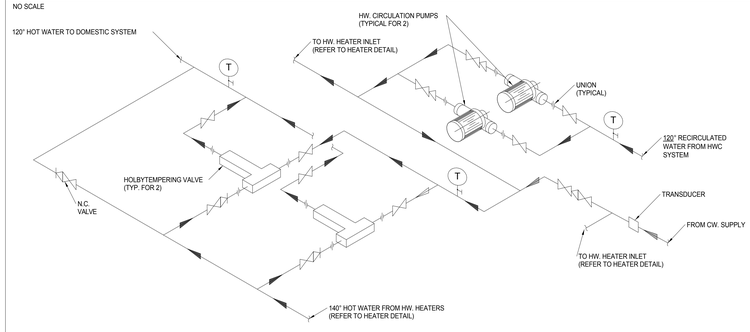


HW CIRCULATING PUMP & HOLBY VALVE ARRANGEMENT

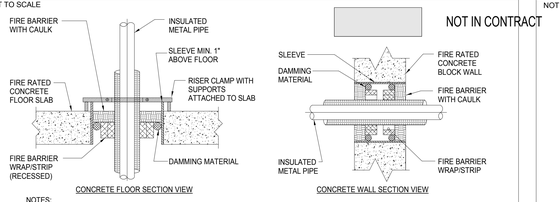
NO SCALE



PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH A CONCRETE FLOOR WALL

NOT TO SCALE

NOT IN CONTRACT



NOTES:

1. WALL PENETRATION FIRESTOPS MUST BE INSTALLED ON BOTH SIDES OF THE WALL, THE FLOOR PENETRATION FIRESTOP IS TO BE INSTALLED FOR THE TOP OF THE FLOOR SURFACE.
2. THE ANNULAR SPACE MUST BE LARGE ENOUGH TO ACCOMODATE THE MIN. NUMBER OF WRAP/STRIPS REQUIRED IN BOTH THE FLOOR OR WALL. THE MINIMUM ANNULAR SPACE MUST ACCOMODATE THE MINIMUM NUMBER OF WRAP/STRIPS REQUIRED PER INSULATION THICKNESS. (SEE TABLE BELOW)

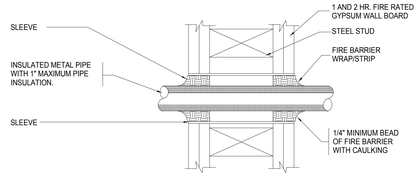
TABLE 1

WRAP	CAULK (MIN.)	INSULATION	HOUR RATING
2 WRAPS	1/2" DEPTH	1" THICK	3
3 WRAPS	1/2" DEPTH	2" THICK	2
4 WRAPS	1/2" DEPTH	3" THICK	2

3. IF THE ANNULAR SPACE IS GREATER THAN 1/2" AFTER THE INSTALLATION OF THE WRAP/STRIP, IT MAY BE FILLED WITH ADDITIONAL WRAP/STRIPS UP TO LESS THAN 1/2" OR FILLED WITH THE PROPER AMOUNT OF CAULK (SEE TABLE 1). A SUITABLE DAMMING MATERIAL SUCH AS MINERAL WOOL MUST BE PROVIDED TO SUPPORT THE CAULK AND PREVENT LEAKAGE.
4. SEAL THE SURFACE AND EDGES OF THE THROUGH OPENINGS WITH A MINIMUM 1/4" BEAD OF CAULK.
5. INSTALLATION MUST CONFORM WITH PRODUCT MANUFACTURERS PERFORMANCE RATINGS PER ASTM E-814 (UL 1479) FIRE TEST AND UL RESPECTIVE CLASSIFICATION FOR FIRE STOPPING.
6. IN ADDITION TO THE REQUIREMENTS OF THE APPROVED UL LISTED FIRE STOPPING ASSEMBLIES, ESCUTCHEON PLATES SHALL BE INSTALLED ON EACH SIDE OF THE FIRE RATED WALL AND SLAB CONSTRUCTION IN ACCORDANCE WITH ARTICLE 15710-1.15 OF THE SPECIFICATIONS AND AS REQUIRED BY THE NEW YORK CITY BUILDING CODE.

PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH GYPSUM WALL BOARD

NOT TO SCALE



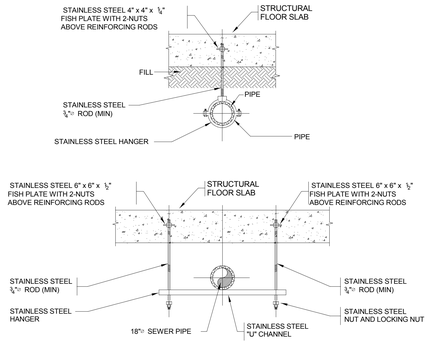
PLAN VIEW

NOTES:

1. THE SPACE BETWEEN THE PENETRATING ITEM AND WALL BOARD MUST ACCOMODATE AT LEAST ONE WRAP OF 1/4" FIRE BARRIER WRAP/STRIP.
2. IF THE ANNULAR SPACE IS LESS THAN 1/2", ONE WRAP OF WRAP/STRIP IS REQUIRED. IF THE ANNULAR SPACE IS 1/2" OR GREATER, FILL WITH ADDITIONAL WRAPS OF WRAP/STRIP UNTIL THE SPACE IS LESS THAN 1/4". WRAP/STRIP MAY BE FRICTION FIT INTO OPENING SECURED WITH FOIL TAPE OR 16 GAUGE STEEL TIE WIRE.
3. SLIDE THE WALL STRIPS INTO THE OPENING, LEAVING A MAXIMUM OF 3/4" EXPOSED WRAP BEYOND THE WALL SURFACE.
4. SEAL THE WRAP/STRIP EDGES AND SEAMS WITH 1/4" MINIMUM BEAD OF FIRE BARRIER CAULK.
5. INSTALL FIRESTOP ON BOTH SIDES OF THE WALL.
6. INSTALLATION MUST CONFORM WITH PRODUCT MANUFACTURERS PERFORMANCE RATINGS PER ASTM E-814 (UL 1479) FIRE TEST AND UL RESPECTIVE CLASSIFICATION FOR FIRE STOPPING.

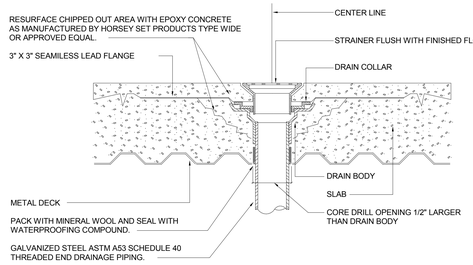
DETAILS OF PIPE HANGERS FOR PIPES BELOW SLAB

NOT TO SCALE



TYPICAL FLOOR DRAIN INSTALLATION

NOT TO SCALE

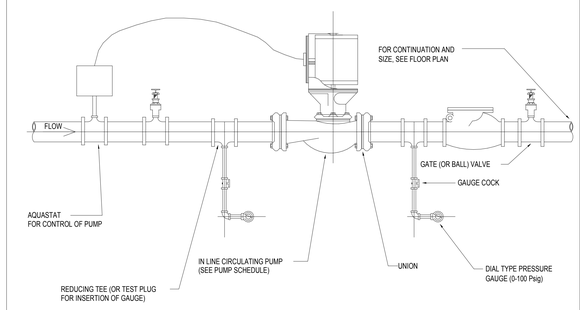


NOTES

1. WATERPROOF EXISTING FLOOR OF ROOM WHERE FLOOR DRAIN IS TO BE LOCATED USING THOROSEAL SEALANT OR APPROVED EQUAL.

TYPICAL CIRCULATION PUMP DETAIL

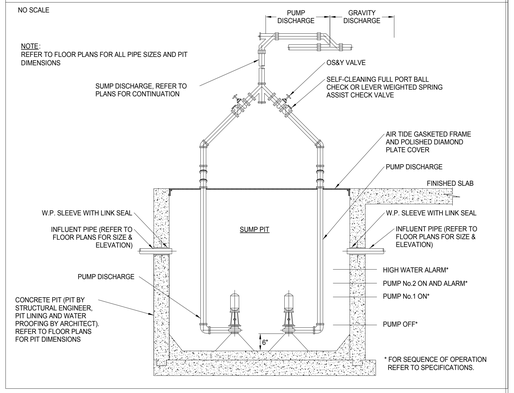
NOT TO SCALE



TYPICAL DETAIL OF SUBMERSIBLE SUMP/EJECTOR PUMP IN CONCRETE PIT

NO SCALE

NOTE:
REFER TO FLOOR PLANS FOR ALL PIPE SIZES AND PIT DIMENSIONS



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Date: 07/14/2017
NYC Development Hub

KEYPLAN:

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STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER

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5	7 JUNE 2017	ISSUED TO DOB REV02
4	13 APR 2017	ISSUED TO DOB Rev01
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

PLUMBING DETAILS

B-SCAN - DRAWING NUMBER

P-701.00

PAGE NUMBER

41 OF 41

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GENERAL NOTES

1. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE NEW YORK CITY BUILDING CODE, 2014 EDITION.
2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING, AND SHEETING AND MAKE SAFE ALL FLOORS, ROOFS, WALLS, AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION, HIRED BY THE CONTRACTOR, WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.
3. DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.
4. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. THESE NOTES HIGHLIGHT RATHER THAN REPLACE THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE ACI FOLLOWING GOVERNING STANDARDS.
   - A. AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318), LATEST EDITION. PER GOVERNING BUILDING CODE
   - B. ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION
   - C. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE", LATEST EDITION
2. ALL CONCRETE COMPOSITE ON METAL DECK SHALL BE LIGHT WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
3. ALL OTHER CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
4. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR A775 EPOXY COATED WHEN CALLED OUT ON PLAN. REINFORCING STEEL SHALL BE DETAILED ACCORDING TO THE ACI "DETAILS AND DETAILING OF REINFORCEMENT", (ACI 315), LATEST EDITION.
5. REINFORCING STEEL TO BE WELDED TO CONFORM TO ASTM A706 GRADE 60.
6. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064, WITH A MINIMUM YIELD STRENGTH OF 65,000 PSI.
7. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND PIPE SLEEVES WITH ALL OTHER DISCIPLINES DRAWINGS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6".
8. ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.
9. PROVIDE CLEARANCE FROM FACE OF CONCRETE TO REINFORCEMENT AS FOLLOWS:
   - A. SLABS: 3/4"
   - B. BEAMS & COLUMNS: 1-1/2"
   - C. FOOTINGS: 3"
   - D. EXTERIOR WALLS: 2" FOR #6 OR LARGER, 1-1/2" FOR #5 OR SMALLER
   - E. INTERIOR WALLS: 3/4"
10. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO CONCRETE WORK SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
11. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE PRIOR TO PLACEMENT.
12. SEE OTHER DRAWINGS IN THIS PROJECT FOR SIZE AND LOCATIONS OF EQUIPMENT PADS, INSERT AND EMBED ITEMS.
13. REINFORCING DOWELS, WATERSTOPS, AND OTHER EMBED ITEMS SHALL BE INSTALLED AND SECURED PRIOR TO CONCRETE PLACEMENT. "WET-SETTING" OF EMBEDDED ITEMS IS NOT PERMITTED.
14. WELDED WIRE REINFORCEMENT IN COMPOSITE CONSTRUCTION SHALL HAVE TENSION SPLICES AND BE ANCHORED AT DISCONTINUOUS EDGES.

CONCRETE BLOCK

1. ALL CONCRETE BLOCK WORK SHALL CONFORM TO THE "NATIONAL CONCRETE MASONRY ASSOCIATION TEK MANUAL FOR THE DESIGN AND CONSTRUCTION OF CONCRETE MASONRY", LATEST EDITION AND "ACI 530-BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", LATEST EDITION. PER GOVERNING CODE.
2. CONCRETE BLOCK SHALL BE OF LIGHTWEIGHT AGGREGATE AND CONFORM TO THE FOLLOWING STANDARDS: SOLID/HOLLOW BLOCK: ASTM C90.

NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (PSI)	NET AREA COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY, F'm (PSI) USING TYPE S MORTAR
1900	1500
2800	2000
3750	2500
4800	3000

UNLESS OTHERWISE NOTED ON PLANS AND/OR ELEVATIONS, CONCRETE BLOCK UNIT STRENGTH SHALL BE 1900 PSI MIN. NOTE: CONCRETE BLOCK WITH UNIT STRENGTH HIGHER THAN 1900 PSI REQUIRE LONGER DELIVERY LEAD TIMES.

3. ALL MORTAR SHALL BE ASTM C270, TYPE S.
4. ALL GROUT FOR FILLING CELLS SHALL BE ASTM C 476 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI BUT NOT LESS THAN THE COMPRESSIVE STRENGTH OF THE MASONRY ASSEMBLY, F'm. WHERE GROUT CELLS DO NOT EXCEED 4" IN DIAMETER FINE GROUT SHALL BE USED.
5. ALL BLOCK DIMENSIONS INDICATED ON STRUCTURAL PLANS ARE NOMINAL DIMENSIONS.
6. ALL CONCRETE BLOCK BELOW GRADE SHALL BE FILLED SOLID WITH GROUT.
7. CONCRETE BLOCK BELOW BEAM OR TRUSS BEARING POINTS SHALL BE FILLED SOLID FOR A MINIMUM OF TWO COURSES IN DEPTH AND A MINIMUM OF 32" IN WIDTH, UNLESS NOTED OTHERWISE.
8. INSTALL STANDARD WEIGHT LADDER JOINT REINFORCEMENT AT 16" ON CENTER (SPACED VERTICALLY).
9. UNLESS NOTED OTHERWISE ALL MASONRY WALLS SHALL BE REINFORCED WITH #4@48" ON CENTER VERTICAL. GROUT ALL REINFORCED CELLS SOLID. PROVIDE DOWELS TO MATCH VERTICAL REINFORCING AT FOUNDATION.
10. WHERE CMU IS SUPPORTED ON STRUCTURAL STEEL MEMBERS, PROVIDE WELDED REBAR DOWELS BETWEEN STEEL AND CMU, DOWELS TO MATCH SIZE AND SPACING OF CMU REINFORCEMENT AND MUST PROVIDE FULL TENSION LAP SPLICE WITH CMU REINFOCEMENT. DOWELS MUST BE WELDABLE AND CONFORM TO ASTM A706, GRADE 60.

METAL DECK

1. METAL DECKING WORK SHALL CONFORM TO THE AISI NORTH AMERICAN "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION. PER GOVERNING BUILDING CODE.
2. METAL DECKING UNITS AND ACCESSORY ITEMS SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A611 OR A653 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. BEFORE FORMING, THE STEEL SHEET SHALL RECEIVE A HOT DIP GALVANIZED COATING CONFORMING TO ASTM A653, GRADE 90.
3. METAL DECKING SHALL BE SHORED AS REQUIRED BY PLANS OR BY SPAN AND LOAD CONDITIONS TO SUPPORT WET WEIGHT OF CONCRETE AND ALL CONSTRUCTION LOADS.
4. THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BY APPROVED METHOD (TO BE SHOWN ON SHOP DRAWINGS) BETWEEN SUPPORTS, AT INTERVALS TO PROVIDE SUFFICIENT DIAPHRAGM STRENGTH TO MAINTAIN BUILDING ALIGNMENT AND TO SUSTAIN LOCAL CONSTRUCTION LOADS WITHOUT DISTORTION OR SEPARATION, MAXIMUM SPACING SHALL BE 3'-0" [2'-0" FOR NYC] BETWEEN SUPPORT BEAMS. END LAPS OF SHEETS SHALL BE A MINIMUM OF 2 INCHES.
5. EXCEPT AS OTHERWISE NOTED, DECK SHALL BE ATTACHED TO STRUCTURAL STEEL BY 3/4"Ø FUSION WELDS @12" ON CENTER. AT END AND INTERIOR SUPPORTS PERPENDICULAR TO THE DECK SPAN AND AT EDGE AND INTERIOR SUPPORTS PARALLEL TO THE DECK SPAN. WELDS MAY BE OMITTED IN RIBS IN WHICH SHEAR CONNECTORS ARE TO BE APPLIED, EXCEPT THAT EACH DECK SECTION SHALL HAVE SUFFICIENT WELDS TO ADEQUATELY SECURE THE DECK, BRING THE DECK INTO DIRECT CONTACT WITH THE SUPPORTING STEEL AND TO PROVIDE SUFFICIENT DIAPHRAGM STRENGTH TO MAINTAIN BUILDING ALIGNMENT.
6. PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE METAL DECKING SHOWING DECK GAUGE, SIZE, AND LAYOUT AS WELL AS CLOSURE CONDITIONS, WELDS TO SUPPORTS AND SIDE LAP DETAILS.
7. ALL REINFORCED OPENINGS IN METAL DECK SHALL BE INSTALLED BY METAL DECK SUBCONTRACTOR. METAL DECK SUBCONTRACTOR TO PROVIDE REINFORCING AS PER TYPICAL DETAILS.
8. AT METAL DECK WITHOUT CONCRETE FILL THE FOLLOWING MAY BE ATTACHED WITHOUT SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER: ACOUSTICAL TILE AND GYPSUM BOARD CEILING ONLY; NO PIPING, DUCTING OR CONDUIT. MAXIMUM CEILING WEIGHT = 3.5 PSF. MAXIMUM WIRE HANGER LOAD = 60 LBS.
9. WHERE SUSPENSION OF HANGER WIRES ARE REQUIRED BY OTHERS, VERIFY AND COORDINATE LOCATIONS, PATTERNS, SPACING, ETC. WITH THE APPROPRIATE TRADE. DRILL OR PUNCH HOLES AT BOTTOM OF DECK FLUTES OF SUFFICIENT SIZE TO PASS SUPPORT WIRES. WIRE SUPPORTS HALL BE LOOPED AND SECURED WITH A MINIMUM OF THREE (3) TIGHT TURNS AROUND A MINIMUM 11/2"x12" LONG FURRING CHANNEL OR NO. 3x12" LONG REINFORCING BAR CENTERED ABOVE THE HOLE AND LAID IN THE DECK FLUTES.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
   - A. AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" LATEST EDITION PER GOVERNING CODE
   - B. AMERICAN WELDING SOCIETY (AWS D1.1) "STRUCTURAL WELDING CODE - STEEL"
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
   - A. WIDE FLANGE BEAMS, COLUMNS, AND STRUCTURAL TEES: ASTM A992
   - B. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B
   - C. STRUCTURAL PIPE SECTIONS: ASTM A53, GRADE B
   - D. CHANNELS AND ANGLES: ASTM A36 UNLESS OTHERWISE NOTED.
   - E. STRUCTURAL STEEL PLATE SHALL BE ASTM A572 GRADE 50 HAVING A MINIMUM YIELD POINT OF 50,000 PSI. GRADE 42 HAVING A MINIMUM YIELD POINT OF 42,000 PSI FOR THICKNESS GREATER THAN 4".
   - F. BOLTED CONNECTIONS OF BEAMS/GIRDERS ARE TO BE DESIGNED AS FOLLOWS:
     - a. STANDARD BEAM TO BEAM/GIRDER: ASTM A325, ASTM F1852, ASTM A490 OR ASTM F2280 BOLTS IN BEARING TYPE CONNECTIONS (3/4" DIAMETER MINIMUM WITH HARDENED WASHERS).
     - b. BEAM/GIRDER TO COLUMN CONNECTIONS: ASTM A325, ASTM F1852, ASTM A490 OR ASTMF2280 BOLTS IN SLIP CRITICAL CONNECTIONS (3/4" DIAMETER MINIMUM WITH HARDENED WASHERS). FAYING SURFACE SHALL BE CLASS A UNLESS OTHERWISE NOTED.
     - c. PER AISC-341-05 SECTION 7.2 ALL BOLTS AT MOMENT CONNECTIONS AND BRACED FRAMES SHOULD BE PRE-TENSIONED HIGH STRENGTH BOLTS AND MEET THE REQUIREMENTS FOR SURFACE PREP FOR SLIP CRITICAL CONNECTIONS. THE AVAILABLE SHEAR STRENGTH OF BOLTED JOINTS USING STANDARDS HOLES SHALL BE CALCULATED AS THAT FOR BEARING TYPE JOINTTS.
   - G. ANCHOR BOLTS: ASTM F1554, GRADE 36.
3. STEEL CONNECTION SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, AND SHALL BE DESIGNED BY A LICENSED ENGINEER WORKING FOR THE FABRICATOR, WHO SHALL PROVIDE CALCULATIONS, UTILIZING ASD LOADS AND PROCEDURES.
   - A. FOR NON-COMPOSITE MEMBERS, PROVIDE CONNECTIONS BASED ON REACTION AS DETERMINED FROM AISC UNIFORM LOAD TABLE (UNLESS OTHERWISE NOTED ON PLANS).
   - B. REINFORCING IS TO BE PROVIDED AT CONNECTIONS WHERE CUTS REDUCE THE SHEAR OR MOMENT CAPACITY BELOW THAT REQUIRED TO SUSTAIN THE REACTION. FLANGES AND WEB ARE TO BE REINFORCED WHERE THE LOCAL CAPACITY TO SUSTAIN CONNECTION LOAD IS INADEQUATE.
   - C. CONNECTIONS SHALL BE DESIGNED FOR SHEAR AND ECCENTRICITY, CONSIDERING THAT THE CONNECTION IS AN EXTENSION OF THE BEAM AND GIRDERS.
4. MINIMUM WELD SIZE IS 1/4" FILLET UNLESS NOTED OTHERWISE.
5. ALL BEAMS EXCEPT CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED WITH NATURAL CAMBER UP. CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED SO THAT NATURAL CAMBER RAISES CANTILEVER END.
6. FIELD CUTTING OR BURNING OF STEEL IS PROHIBITED EXCEPT WITH THE EXPRESS WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. (IN WHICH CASE ALL BURNING OF STEEL MUST CONFORM TO THE THERMAL CUTTING REQUIREMENTS OF AISC AND AWS)
7. WELDING SHALL BE PERFORMED BY CERTIFIED LICENSED, AWS-QUALIFIED WELDERS. ELECTRODES SHALL BE AWS 5.1, CLASS E70XX (FOR ASTM A572 GRADE 50 KSI PLATE USE ELECTRODE E7018 OR APPROVED EQUAL.
8. SHOP PAINT EXTERIOR EXPOSED STEEL MEMBERS, STEEL MEMBERS NOT ENCASED IN CONCRETE OR SPRAY FIREPROOFED, AND ALL STEEL MEMBERS AT THE EXTERIOR WALL WITH TNEMEC #10-99 "OR APPROVED EQUAL EXCEPT FOR MEMBERS TO BE HOT DIPPED GALVANIZED.
9. HOT DIP GALVANIZING SHALL CONFORM TO ASTM A123, REPAIR SCRATCHES OR ABRADED GALVANIZED SURFACE WITH ZINC RICH PAINT. ALL EXTERIOR EXPOSED STEEL AND STEEL SUPPORTING EXTERIOR SHALL BE HOT DIPPED GALVANIZED.
10. LINTELS SHALL BE INSTALLED OVER ALL OPENINGS IN MASONRY WALLS AS FOLLOWS:

MASONRY OPENING	LINTEL
4'-0" OR LESS	L4x3-1/2x5/16 LLV
4'-1" to 7'-0"	L6x3-1/2x5/16 LLV

   - A. 3-1/2" LEGS ARE HORIZONTAL.
   - B. PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS.
   - C. PROVIDE L5x5x5/16 ANGLES FOR 6" THICK WALLS AND PARTITIONS WITH OPENINGS UP TO 6'-0".
   - D. PROVIDE MINIMUM 6" BEARING AT EACH END.
   - E. LINTELS OVER 4'-0" SHALL BE FIREPROOFED.

10. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
11. PROVIDE MECHANICALLY GALVANIZED BOLTS FOR EXTERIOR APPLICATIONS.
12. ALL STEEL CONNECTIONS MUST MEET THE REQUIREMENTS OF SECTION 2213 OF THE NYC BUILDING CODE.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:
   - A. STRUCTURAL STEEL - WELDING (BC 1704.3.1)
   - B. STRUCTURAL STEEL - DETAILS (BC 1704.3.2)
   - C. STRUCTURAL STEEL - HIGH STRENGTH BOLTING (BC 1704.3.3)
   - D. CONCRETE - CAST-IN-PLACE (BC 1704.4)
   - E. MASONRY (BC 1704.5)
   - F. STRUCTURAL STABILITY - EXISTING BUILDINGS (BC 1704.20.1)
   - G. POST-INSTALLED ANCHORS (BB# 2014-018, 2014-019) (BC 1704.32)
   - H. CONCRETE DESIGN MIX - TR3 (BC 1905.3, BC1913.5)
   - I. CONCRETE SAMPLING AND TESTING - TR2 (BC 1905.6, BC 1913.10)

   THE TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE BUILDING DEPARTMENT.

PROGRESS INSPECTIONS

1. INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:
   - A. FINAL (28-116.2.4.2, BC 110.5, DIRECTIVE 14 OF 1975, AND 1 RCNY 101-10)

   THE TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE BUILDING DEPARTMENT.

STANDARD ABBREVIATIONS

ADD'L	ADDITIONAL
ADJ.	ADJACENT
A/E	DESIGN TEAM OF RECORD
ALT.	ALTERNATE
ANCH.	ANCHOR
APPROX.	APPROXIMATE/APPROXIMATELY
ARCH.	ARCHITECT/ARCHITECTURAL
BLDG.	BUILDING
BM.	BEAM
B.O.	BOTTOM OF
BOT.	BOTTOM
BRG.	BEARING
BSMT.	BASEMENT
CANT.	CANTILEVER
CFS	COLD FORMED STEEL
C.I.P.	CAST IN PLACE
C.J.	CONTRACTION JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COMP.	COMPOSITE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
COORD.	COORDINATE/COORDINATION
CONTR.	CONTRACTOR
COTR	CONTRACT OFFICER'S TECHNICAL REPRESENTATIVE
CTR.	CENTER
DBL.	DOUBLE
DEMO	DEMOLITION/DEMOLISH
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
D.L.	DEAD LOAD
DN.	DOWN
DTL.	DETAIL
DWG(S)	DRAWING(S)
DWL.	DOWEL
EA.	EACH
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMBED.	EMBEDMENT
E.O.	EDGE OF
ENGR.	ENGINEER

STANDARD ABBREVIATIONS

E.O.R.	ENGINEER OF RECORD
EQ.	EQUAL
E.S.	EACH SIDE
E.W.	EACH WAY
EXP.	EXPANSION
EXT.	EXTERIOR
FDN.	FOUNDATION
FIN.	FINISH
FLR.	FLOOR
FRMG.	FRAMING
F.S.	FAR SIDE
FT.	FEET
FTG.	FOOTING
GA.	GAGE
GALV.	GALVANIZED
G.B.	GRADE BEAM
HDR.	HEADER
HGR.	HANGER
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
HT.	HEIGHT
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
I.D.	INSIDE DIAMETER
I.F.	INSIDE FACE
I.J.	ISOLATION JOINT
INFO	INFORMATION
INT.	INTERIOR
JT.	JOINT
K	KIP
LB.	POUND
L.L.	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
L.P.	LOW POINT
L.W.	LIGHTWEIGHT
L.W.	LONG WAY
MAS.	MASONRY
MAX	MAXIMUM
MECH.	MECHANICAL
MEP	MECH., ELECT., PLUMBING, & F.P.
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
N.F.	NEAR FACE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER

STANDARD ABBREVIATIONS

N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
N.W.	NORMAL WEIGHT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPNG.	OPENING
OPP.	OPPOSITE
PC.	PIECE
P/C	PRECAST
PED	PEDESTAL
PERP.	PERPENDICULAR
PL.	PLATE
PLF	POUNDS PER LINEAR FOOT
PREFAB.	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P-T	POST-TENSIONED
REINF.	REINFORCE(D)/REINFORCEMENT
REQ'D	REQUIRED
REV.	REVISION
SCHED.	SCHEDULE
SECT.	SECTION
S.I.F.	STEP IN FOOTING
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STIFF.	STIFFENER
STL.	STEEL
S.W.	SHORT WAY
SYM.	SYMMETRIC
T & B	TOP & BOTTOM
TEMP.	TEMPORARY/TEMPERATURE
THK.	THICK(NESS)
T.O.	TOP OF
TR.	TRANSFER
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/	WITH
W.P.	WORK POINT
W.W.R.	WELDED WIRE REINFORCEMENT
#	NUMBER/SIZE
Ø	DIAMETER

STANDARD ABBREVIATIONS FOR EXISTING STRUCTURES

C.I.	CAST IRON
(E)	EXISTING MEMBER OR DMIENSION
EXIST.	EXISTING
T.C.	TERRACOTTA
U-P	UNDERPINNING
V.I.F.	VERIFY IN FIELD

DESIGN LOAD AND PARAMETER TABLE

GOVERNING CODE:		NEW YORK CITY BUILDING CODE, 2014 EDITION
LIVE LOADS:		
40 PSF		APARTMENTS & HOTEL ROOMS
40 PSF		CORRIDORS ABOVE FIRST FLOOR
100 PSF		FIRST FLOOR CORRIDOR & PUBLIC SPACES
50 PSF		OFFICES
40 PSF		PARKING
75 PSF		MECHANICAL SPACES
30 PSF		ROOF
100 PSF		STAIRS
100 PSF		ASSEMBLY SPACE, STORES, RESTAURANTS, BALLROOMS
		(1) SLL 15PSF PARTITIONS ALSO APPLIED AS LIVE LOAD
		(2) USED IN ABSENCE OF ACTUAL WEIGHT OF MECHANICAL EQUIPMENT AND INCLUDES MIN. FLAT ROOF SNOW LOAD OF 30 PSF
SNOW LOADS:		
25 PSF	Pg	GROUND SNOW LOAD
20 PSF	Pf	FLAT ROOF SNOW LOAD
0.9	Ce	SNOW EXPOSURE FACTOR
1.1	Is	SNOW LOAD IMPORTANCE FACTOR
1.0	Ct	THERMAL FACTOR
SEISMIC DESIGN AND WIND DESIGN:		ALTERATION TO EXISTING BUILDING DOES NOT IMPACT EXISTING SEISMIC OR WIND DESIGN PERFORMANCE

LEGEND

Symbol	Description
	EXISTING CONCRETE FOOTING
	CONCRETE FOOTING, GRADE BEAM OR PILE CAP
	WALL OR CONCRETE BEAM BELOW
	EXISTING BRICK MASONRY
	BRICK MASONRY
	EXISTING CONCRETE MASONRY (CMU)
	CONCRETE MASONRY (CMU)
	EXISTING CONCRETE WALL
	CONCRETE WALL
	STEEL COLUMN
	EXISTING STEEL COLUMN
A-1	EXISTING COLUMN REINFORCEMENT OF COLUMN BELOW. SEE REINFORCEMENT SCHEDULE FOR DETAILS AND EXTENTS.
(E)W_X_	EXISTING STEEL BEAM
W_X_	STEEL BEAM
W_X_	EXISTING STEEL BEAM TO BE DEMOLISHED
L	STEEL LINTEL (SEE SCHEDULE)
	STEEL BRACING
WP#	MECHANICAL WEB PENETRATION
	LEDGER ANGLE (SEE DETAIL)
	STEEL BEAM SLOPE
	BENT STEEL FRAMING
	SHEAR CONNECTION
	MOMENT CONNECTION
	NEW CONCRETE ON METAL DECK FOR REPAIR OF EXISTING UNFRAMED OPENING, FOR INFILL OF EXISTING FRAMED OPENING OR FOR NEW DECK TO BE INSTALLED DUE TO REFRAMED ZONE FOR NEW PROGRAM.
	2 1/2" L.W. CONCRETE OPN 2"-18 GAGE METAL DECK (4 1/2" TOTAL DEPTH)
S.O.G.	SLAB ON GRADE (SEE SCHEDULE)
	COLUMN ABOVE /BELOW
+#'-#"	TOP OF SLAB ELEVATION
T.O. STEEL=#'-#"	SPOT ELEVATION
	INDICATES STEP DOWN IN STRUCTURAL SLAB
	INDICATES SLOPE DOWN OR UP
<##'-##">	TOP OF FRAMING ELEVATION RELATIVE TO DATUM
{##'-##"}	TOP OF PIER ELEVATION RELATIVE TO DATUM
(##'-##")	BOTTOM OF BASE PLATE ELEVATION RELATIVE TO DATUM
#	COLUMN LINE
#	EXISTING COLUMN LINE. (DIMENSIONS BETWEEN EXISTING COLUMN LINES ARE FOR REFERENCE ONLY.)
	AREA NOT IN SCOPE OF SD PACKAGE
	METRO NORTH SPACE
	WT REINFORCING
	REMOVE EXISITNG FILL AND FINISH, RAISE SLAB 3" LW CONCRETE ON POLYSTYREME, SEE PLAN FOR ELEVATIONS, SEE TYPICAL DETAILS FOR CONSTRUCTION INFORMATION

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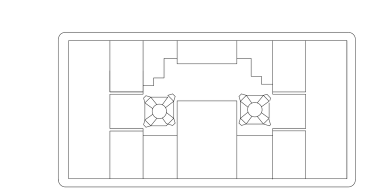
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN



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STATE OF NEW YORK
ALASTAIR C. ELLIOTT
No. 081677
LICENSED PROFESSIONAL ENGINEER

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GENERAL NOTES AND ABBREVIATIONS

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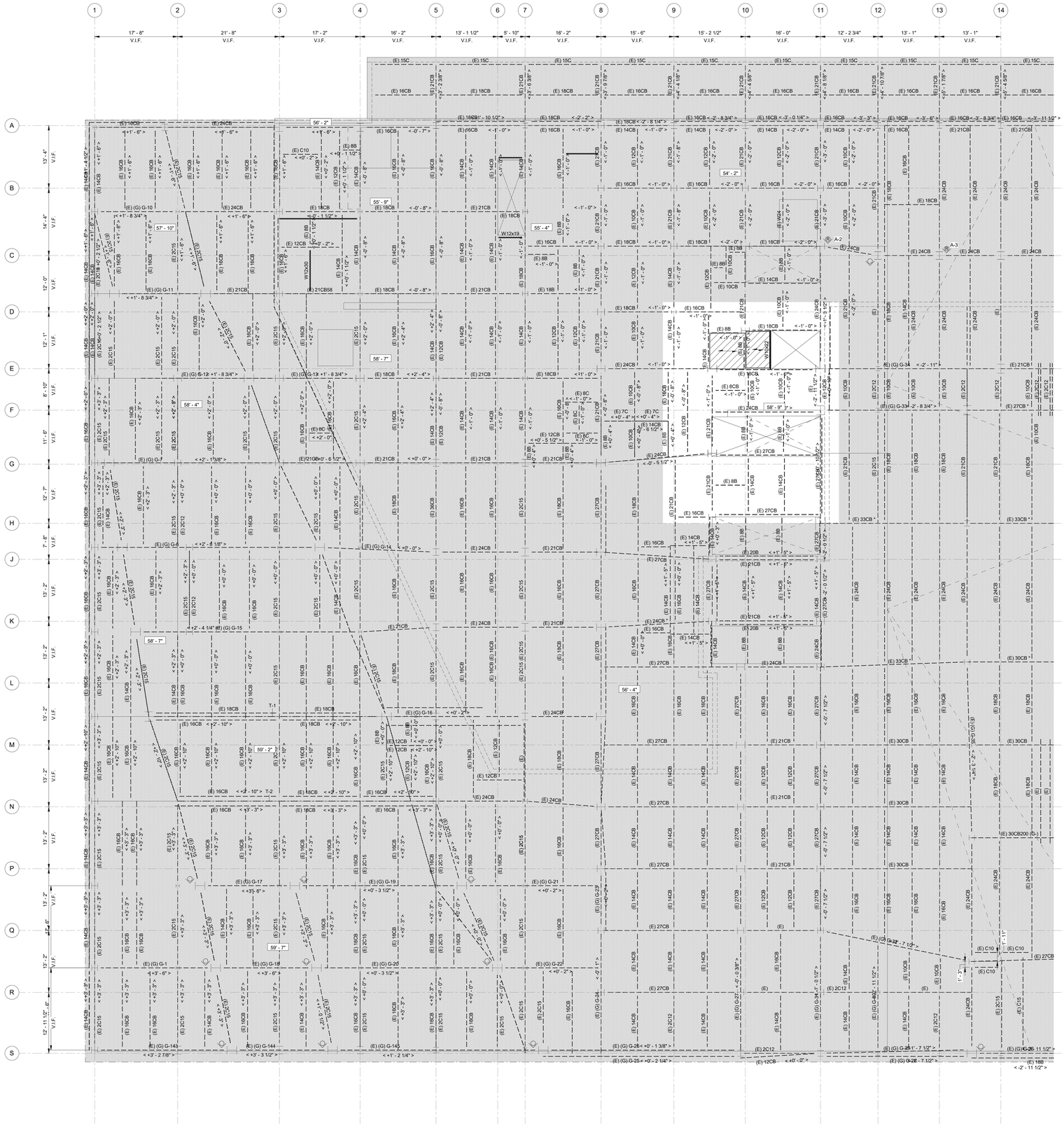

1 S-107 BASEMENT STEEL - PART PLAN A
1/8" = 1'-0"
TOP OF SLAB ELEVATION TO BE 54'-0 3/8" (52'-4 1/2" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
3. ALL ELEVATIONS NOTED ARE RELATIVE TO NAVD88. REFER TO ARCHITECTURAL DRAWINGS FOR SURVEY ORIGIN
4. TOP OF EXISTING STEEL ELEVATION TO BE (-4 ½") BELOW TOP OF SLAB ELEVATION, TYP
5. TOP OF NEW STEEL ELEVATION TO BE (-1") BELOW BOTTOM OF SLAB ELEVATION, TYP U.O.N ON PLAN
6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION NOT SHOWN ON PLAN
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.

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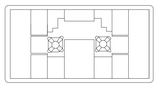

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BASEMENT FRAMING - PART PLAN A

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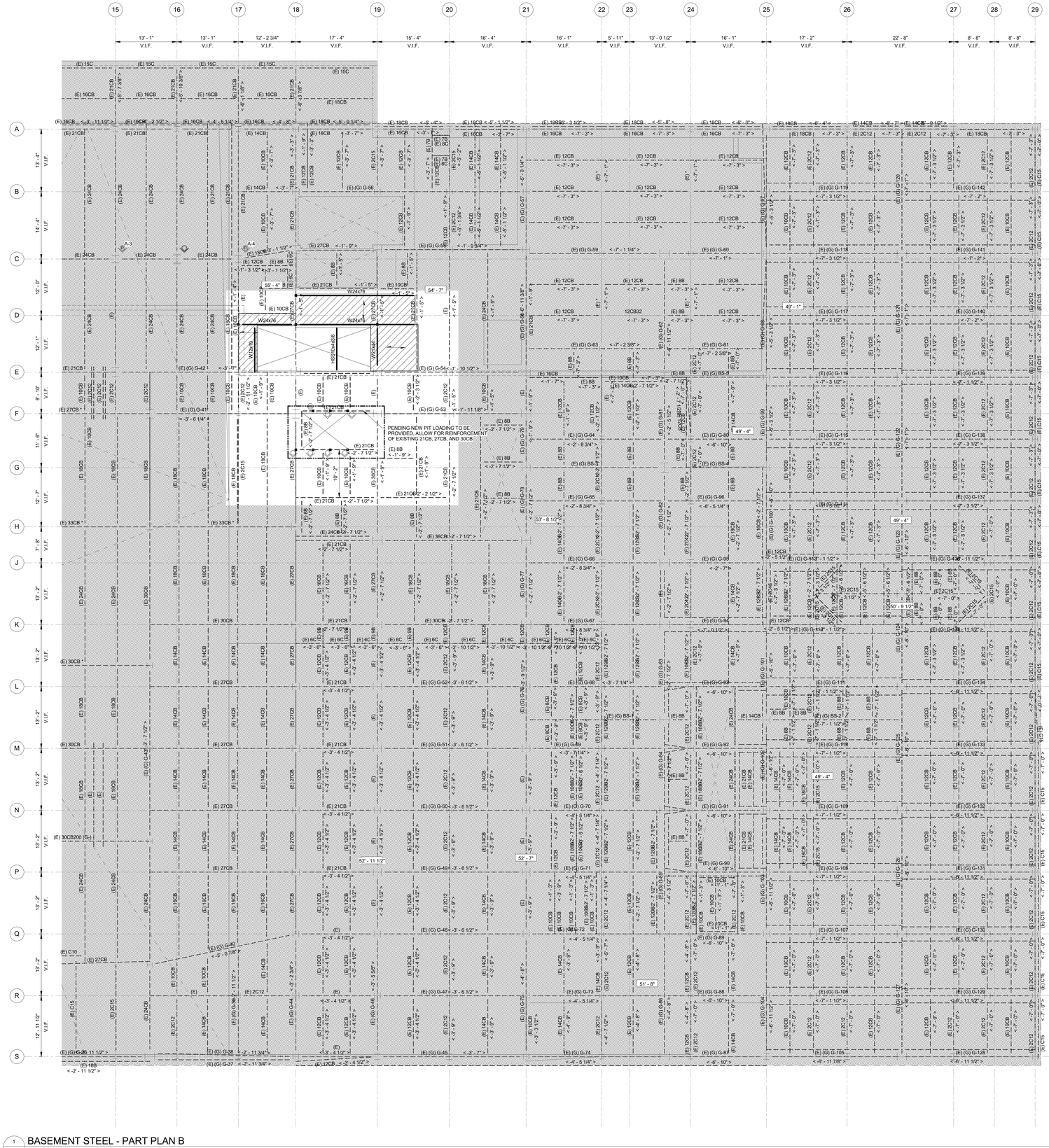

1 S-108 BASEMENT STEEL - PART PLAN B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 54'-0 3/8" (52'-4 1/2" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
3. ALL ELEVATIONS NOTED ARE RELATIVE TO NAVD88. REFER TO ARCHITECTURAL DRAWINGS FOR SURVEY ORIGIN
4. TOP OF EXISTING STEEL ELEVATION TO BE (-4 ½") BELOW TOP OF SLAB ELEVATION, TYP
5. TOP OF NEW STEEL ELEVATION TO BE (-1") BELOW BOTTOM OF SLAB ELEVATION, TYP U.O.N ON PLAN
6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION NOT SHOWN ON PLAN
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.

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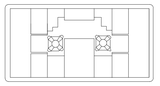

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BASEMENT FRAMING - PART PLAN B

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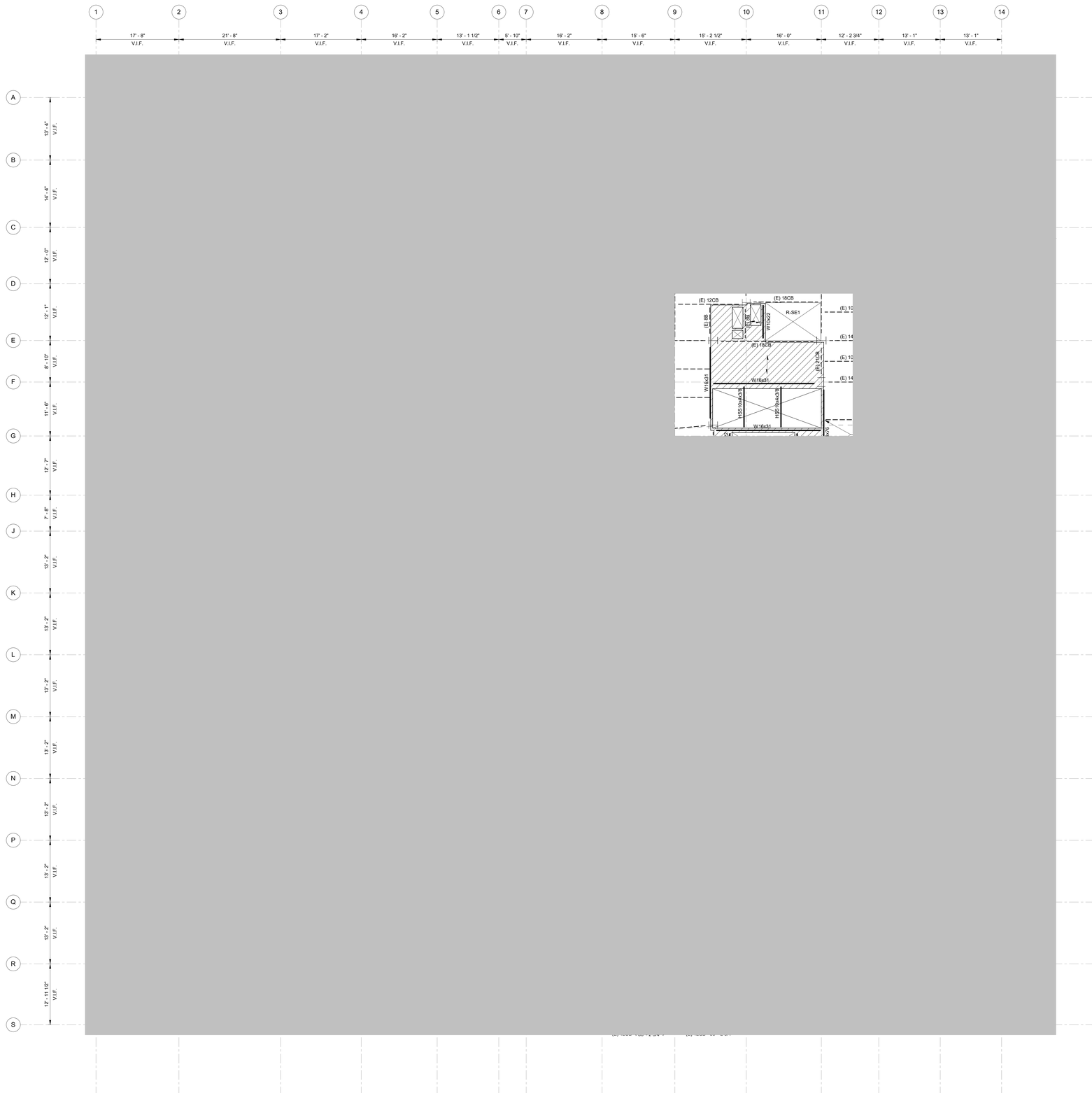

1 S-109 LEVEL 01 STEEL - PART PLAN A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 66'-7 7/8" (65'-0" ON EXISTING DRAWINGS)

NOTES

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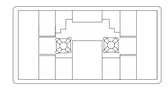

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3	19 JUN 2017	ISSUED TO DOB
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LEVEL 1 FRAMING - PART PLAN A

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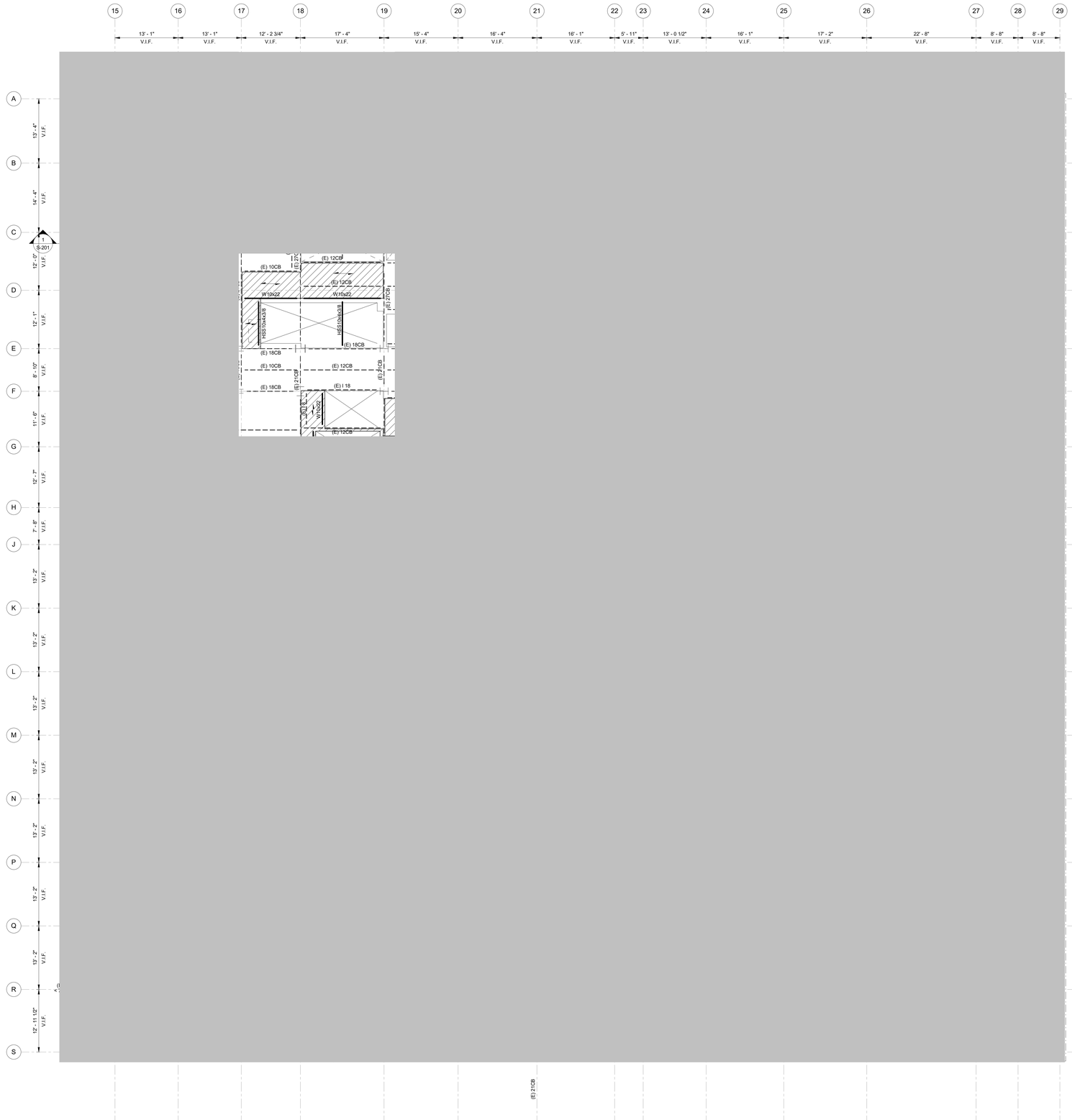

1 S-110 LEVEL 01 STEEL - PART PLAN B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 66'-7 7/8" (65'-0" ON EXISTING DRAWINGS)

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LEVEL 1 FRAMING - PART PLAN B

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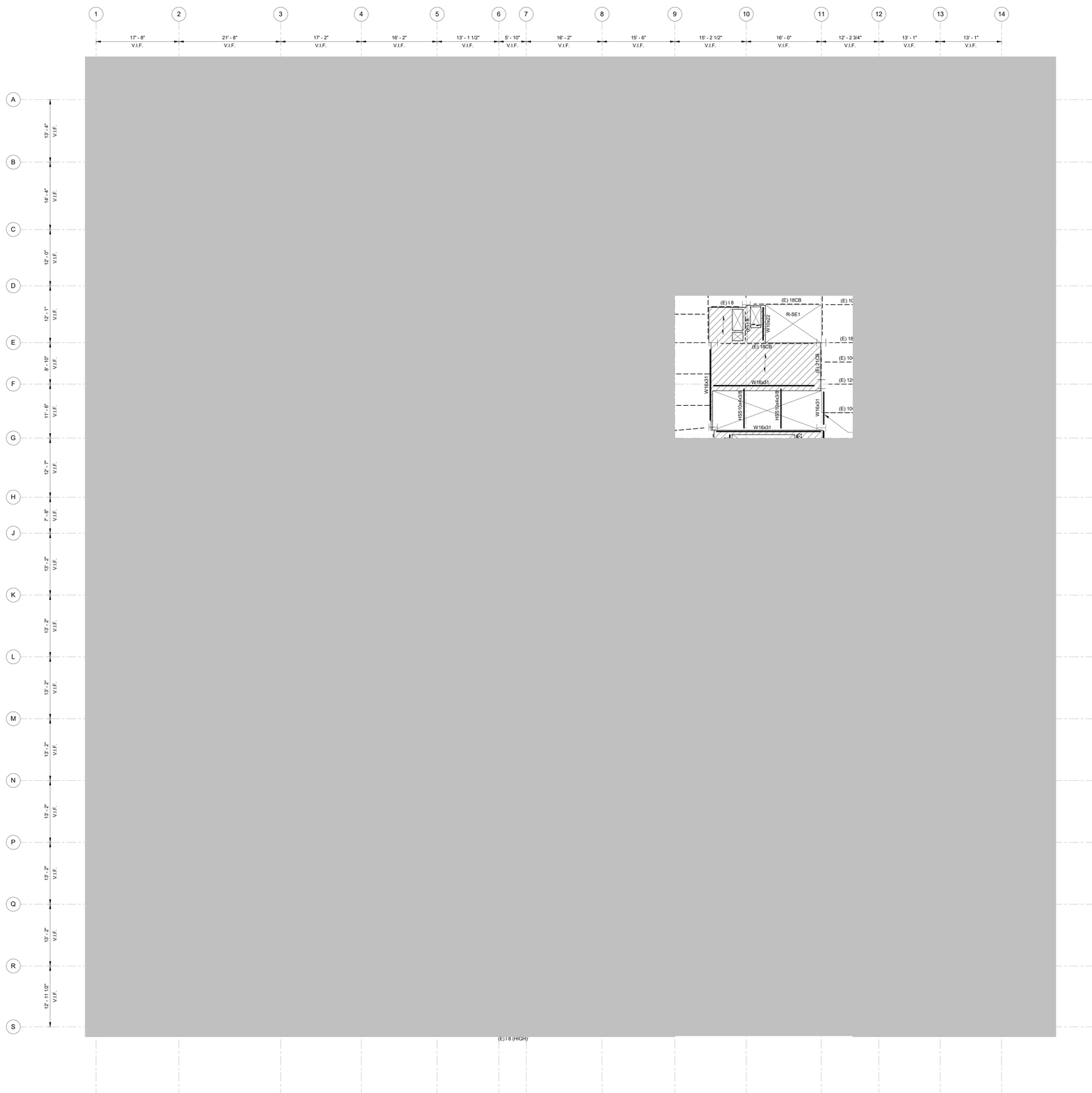

1 S-111 LEVEL 02 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 79'-7 7/8" (78'-0" ON EXISTING DRAWINGS)

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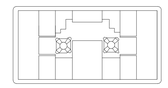

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LEVEL 2 FRAMING - PART PLAN A

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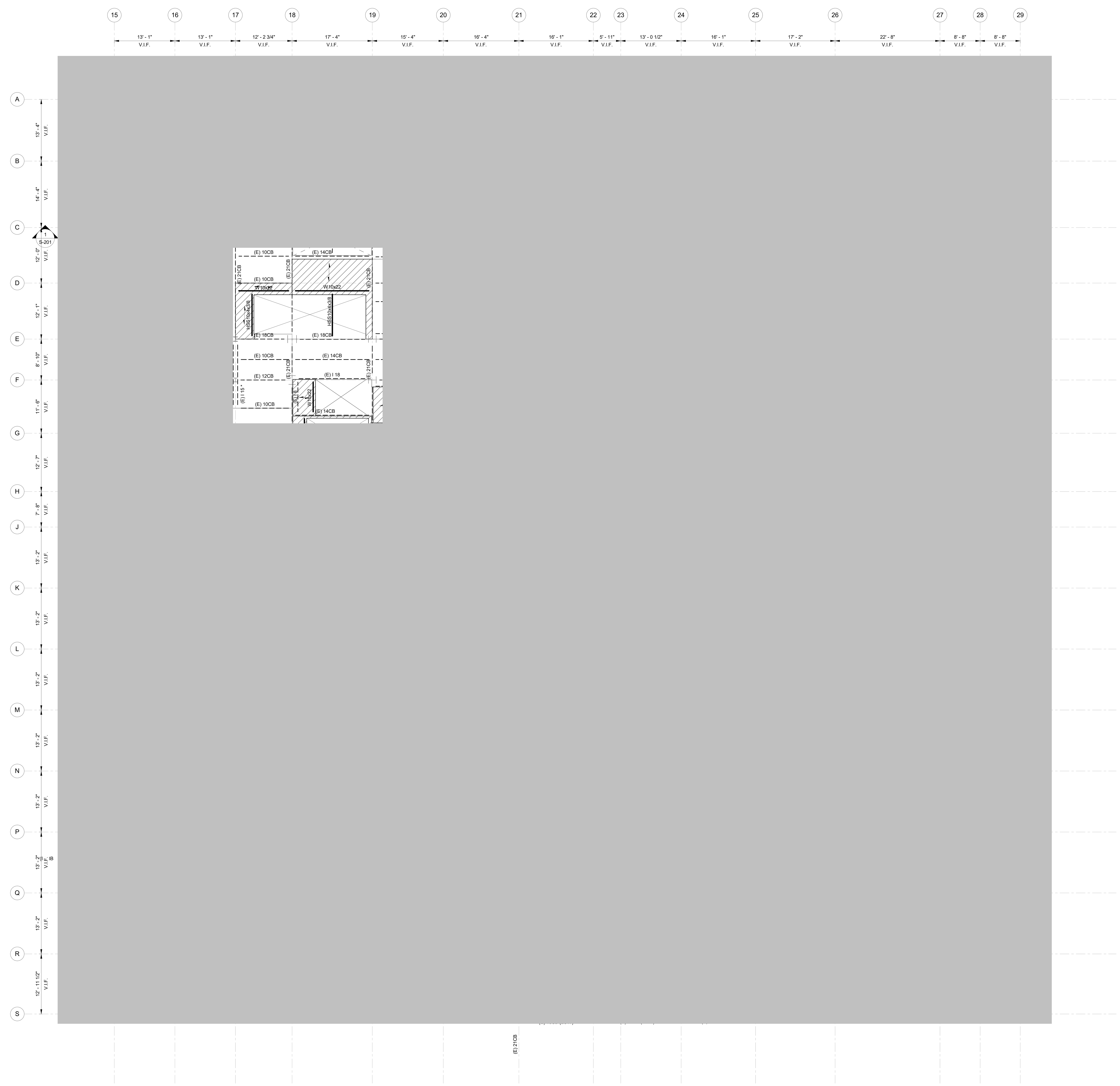

LEVEL 02 STEEL - PART B

1 / S-112

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 79'-7 7/8" (78'-0" ON EXISTING DRAWINGS)

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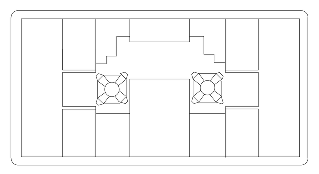

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LEVEL 2 FRAMING - PART PLAN B

B-SCAN - DRAWING NUMBER

S-112.00

PAGE NUMBER

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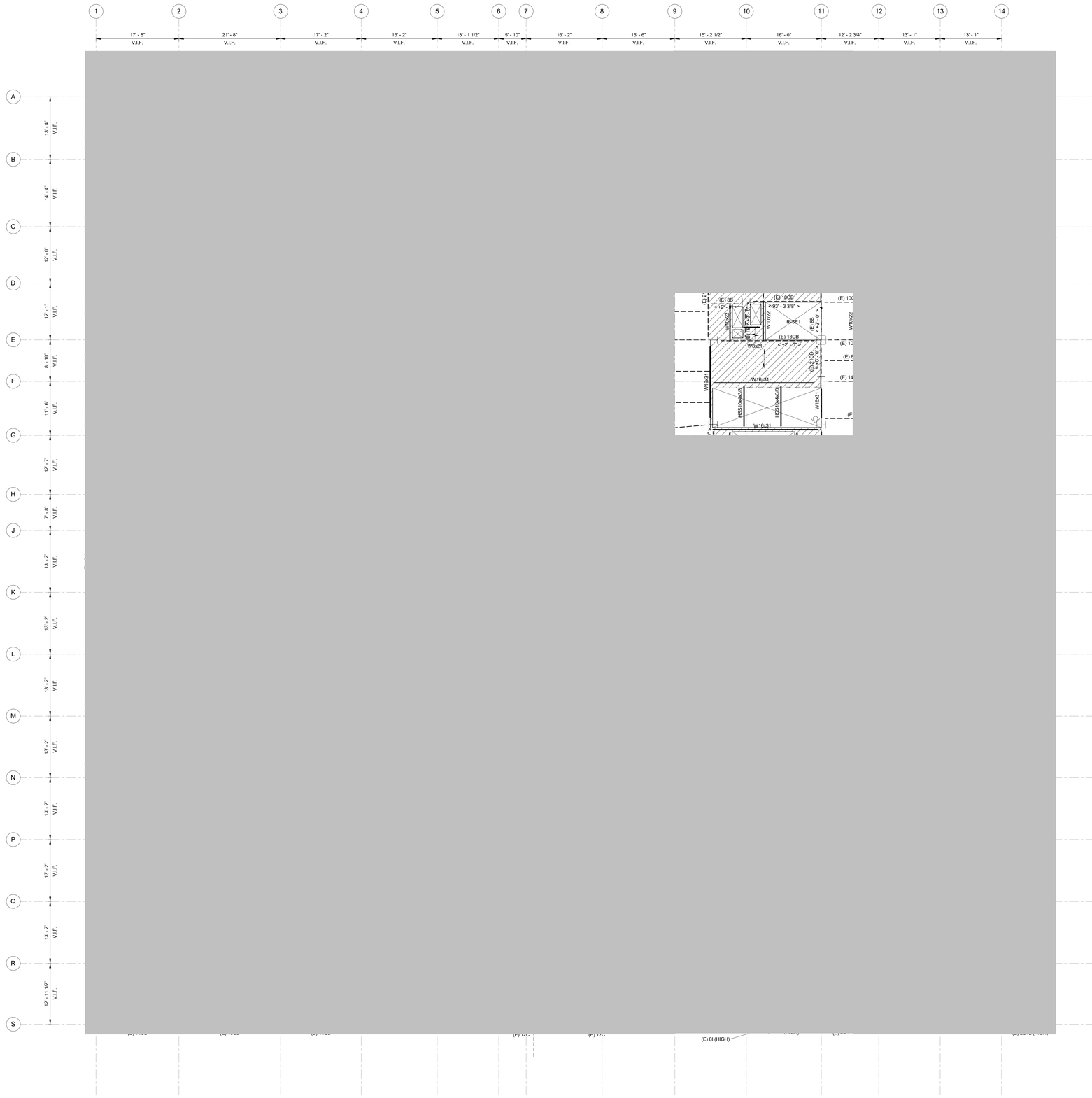

1 S-113 LEVEL 03 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 91'-7 7/8" (90'-0" ON EXISTING DRAWINGS)

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LEVEL 3 FRAMING - PART PLAN A

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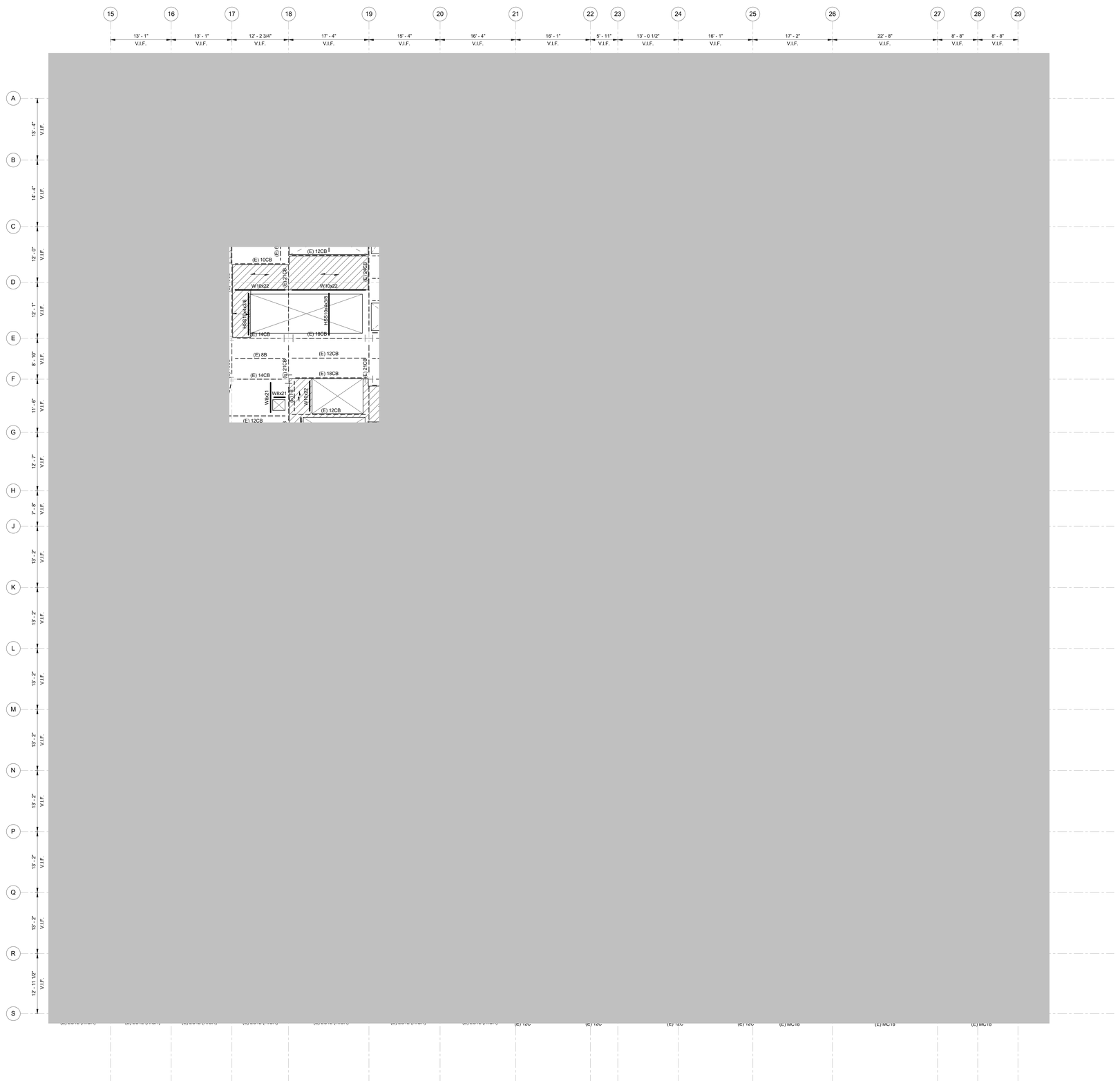

1 S-114 LEVEL 03 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 91'-7 7/8" (90'-0" ON EXISTING DRAWINGS)

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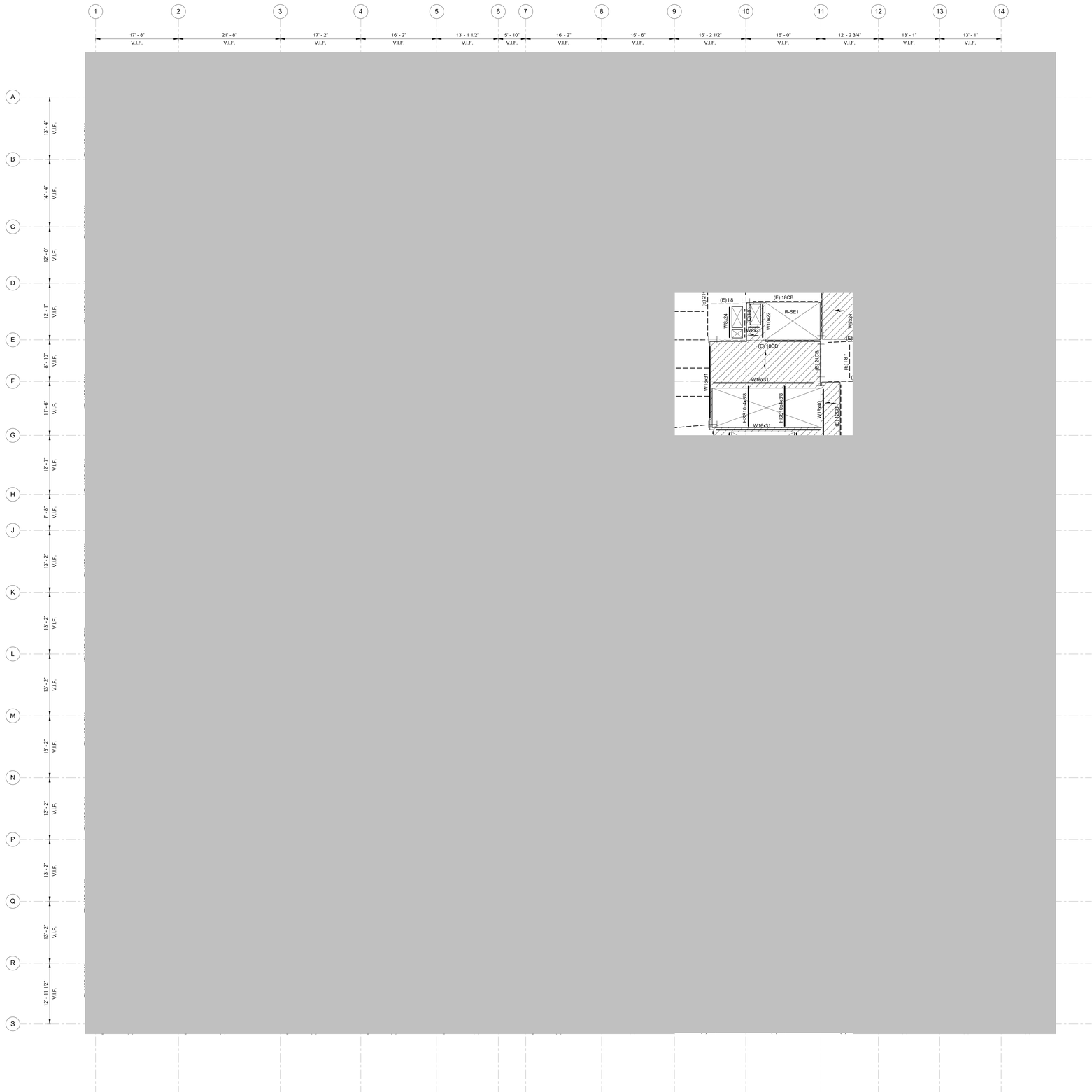

1 S-115 LEVEL 04 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 103'-7 7/8" (102'-0" ON EXISTING DRAWINGS)

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DRAWING TITLE

LEVEL 4 FRAMING - PART PLAN A

B-SCAN - DRAWING NUMBER

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87

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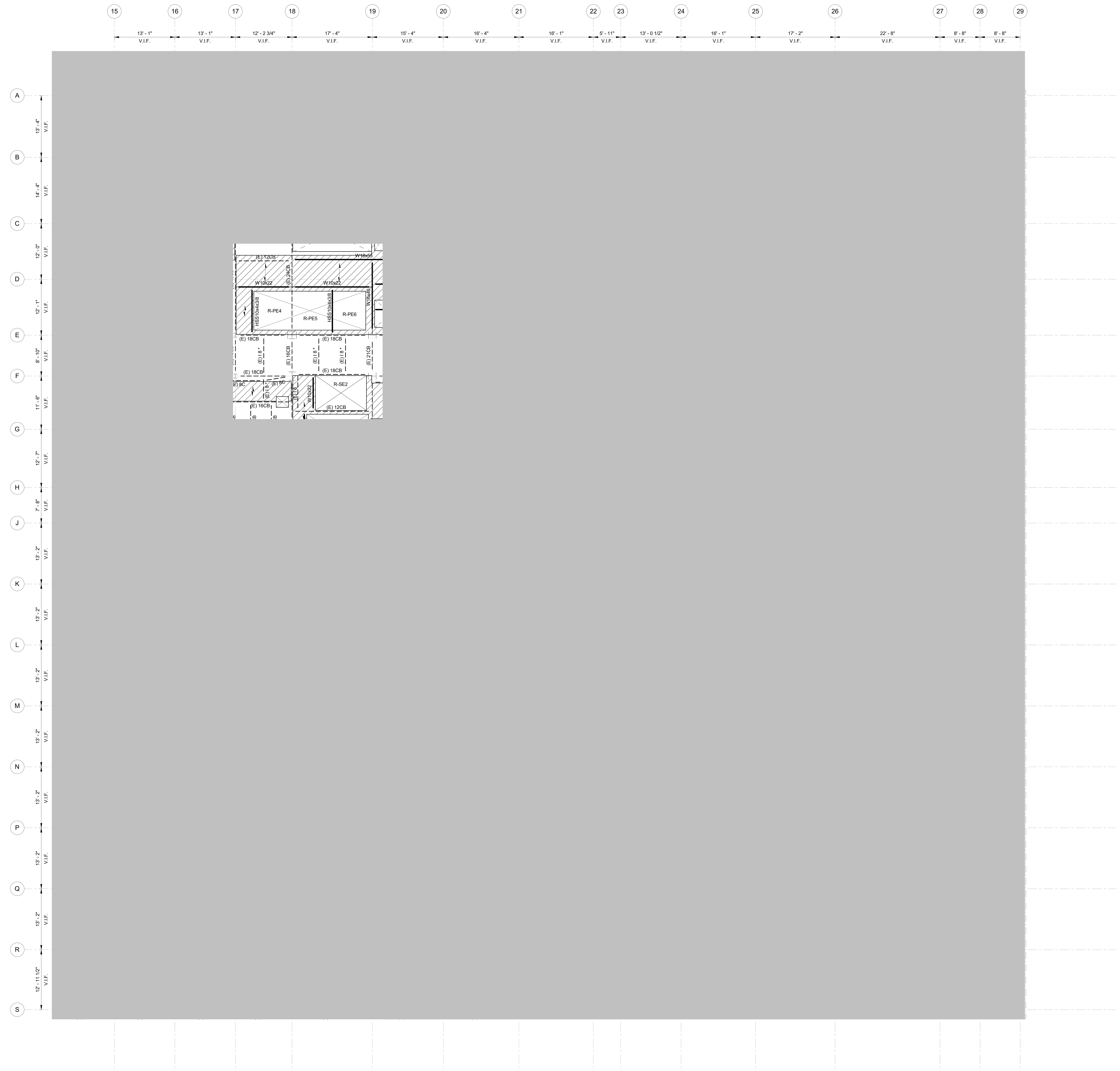

1 S-116 LEVEL 04 STEEL - PART B
1/8" = 1'-0"
TOP OF SLAB ELEVATION TO BE 103'-7 7/8" (102'-0" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
3. ALL ELEVATIONS NOTED ARE RELATIVE TO NAVD88. REFER TO ARCHITECTURAL DRAWINGS FOR SURVEY ORIGIN
4. TOP OF EXISTING STEEL ELEVATION TO BE (-4 ½") BELOW TOP OF SLAB ELEVATION, TYP
5. TOP OF NEW STEEL ELEVATION TO BE (-1") BELOW BOTTOM OF SLAB ELEVATION, TYP U.O.N ON PLAN
6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION NOT SHOWN ON PLAN
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.

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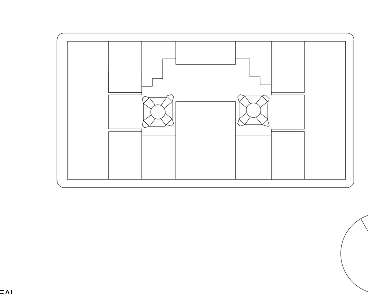

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STATE OF NEW YORK · ALASTAIR C. ELLIOTT · No. 081677 · LICENSED PROFESSIONAL ENGINEER

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3	19 JUN 2017	ISSUED TO DOB
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LEVEL 4 FRAMING - PART PLAN B

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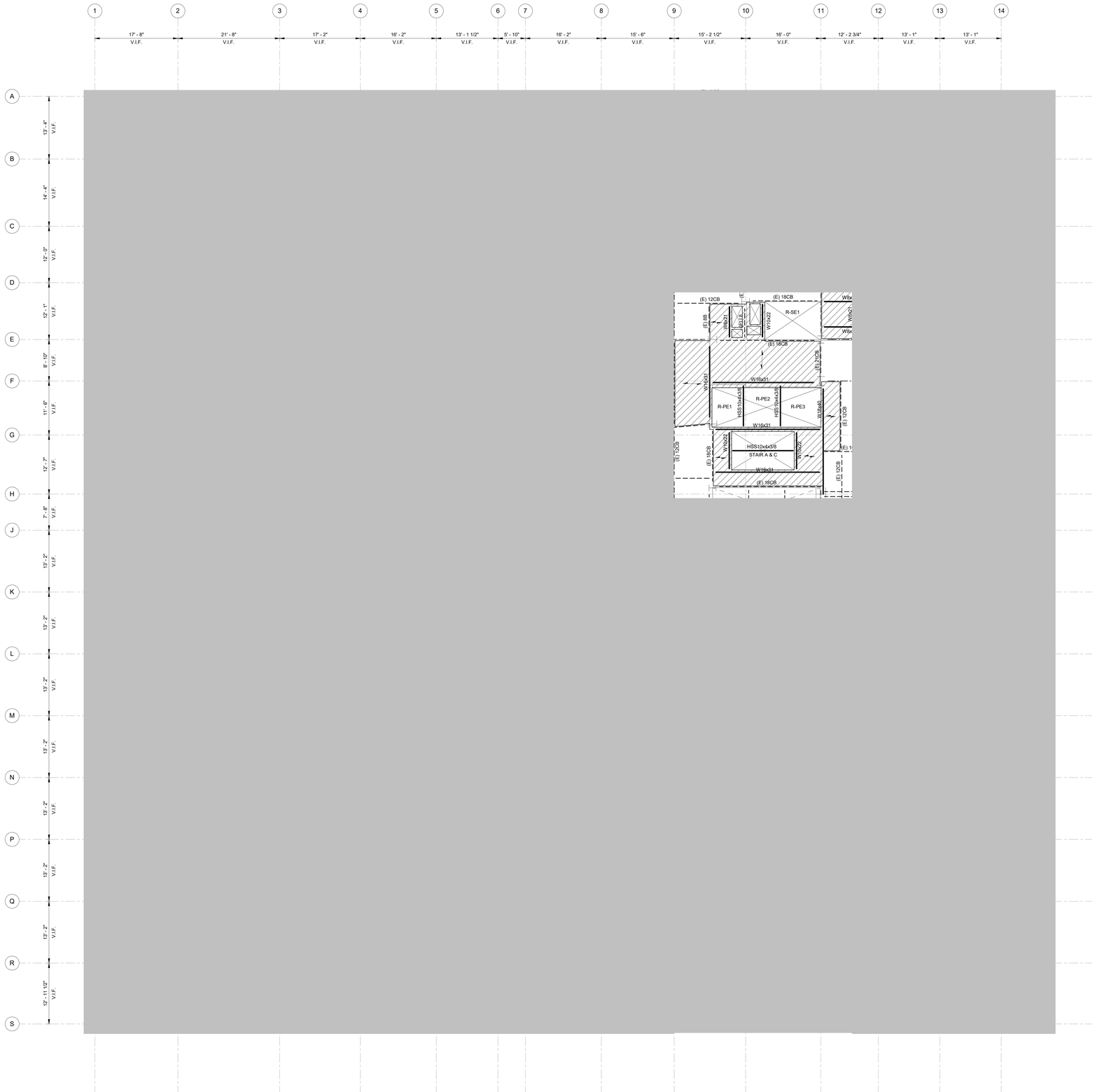

1 S-117 LEVEL 05 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 114'-7 7/8" (113'-0" ON EXISTING DRAWINGS).

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12. HOTEL LAYOUTS ARE STILL IN SCHEMATIC DESIGN. REFER TO THE 8TH - 12TH FRAMING PLANS AS REPRESENTATIVE OF THE ESTIMATED STEEL TONNAGE REQUIRED FOR NEW HOTEL FLOOR PENETRATIONS.

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LEVEL 5 FRAMING - PART PLAN A

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PAGE NUMBER

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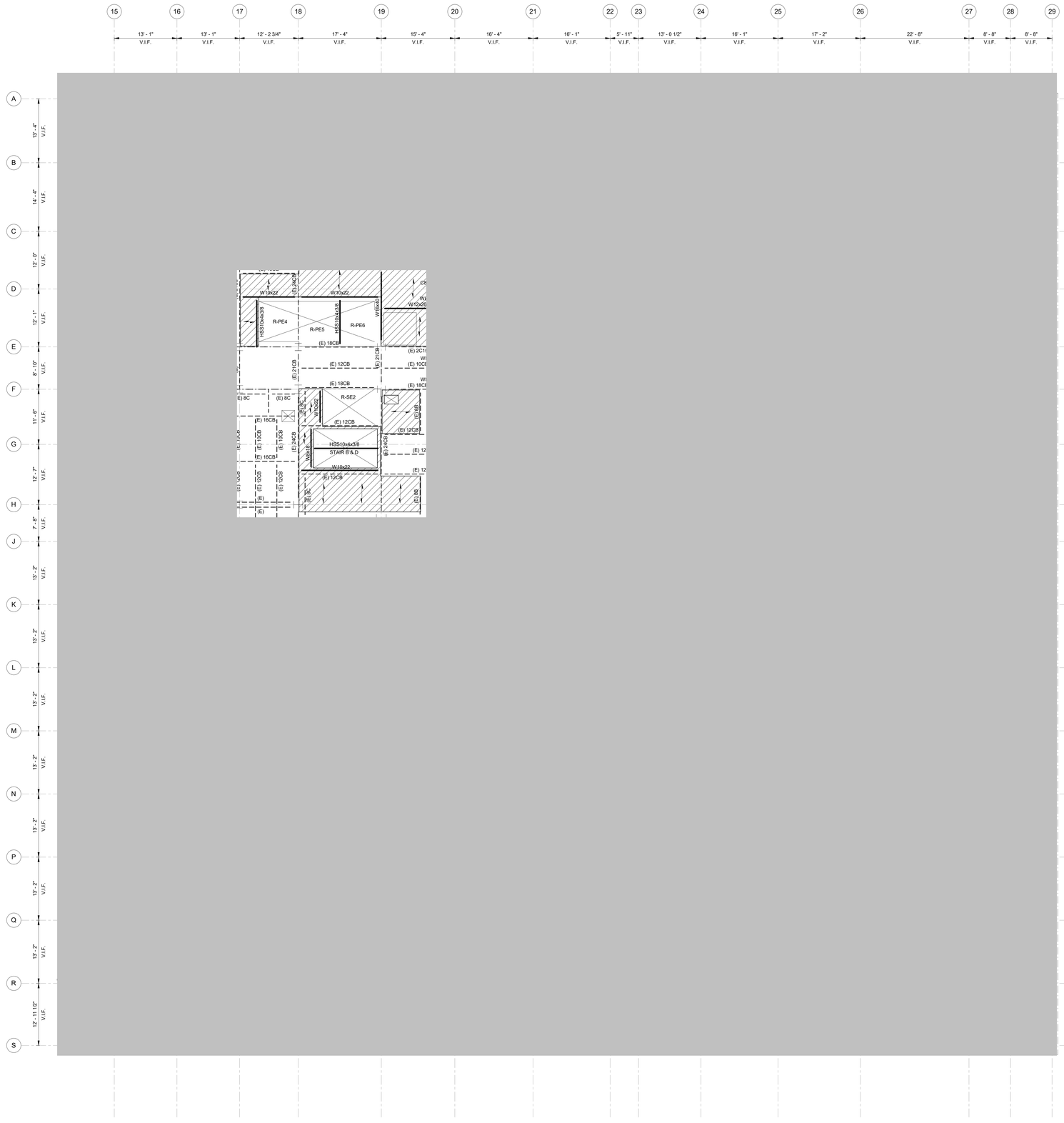

1 S-118 LEVEL 05 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 114'-7 7/8" (113'-0" ON EXISTING DRAWINGS)

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PAGE NUMBER

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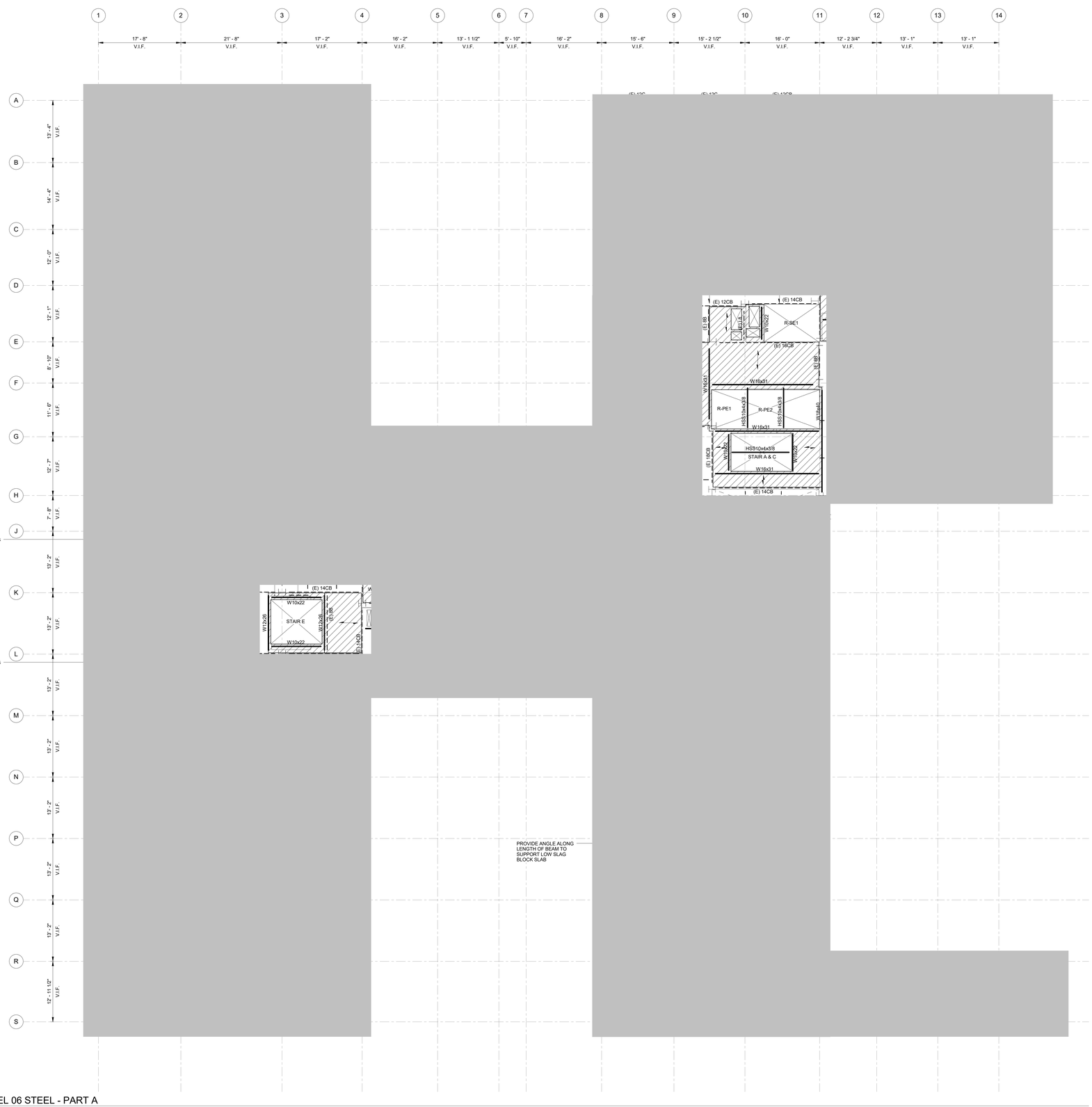

1 S-119 LEVEL 06 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 125'-5 7/8" (123'-10" ON EXISTING DRAWINGS)

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Date: 07/14/2017
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ARTHUR C. ELLIOTT
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3	19 JUN 2017	ISSUED TO DOB
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LEVEL 6 FRAMING - PART PLAN A

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87

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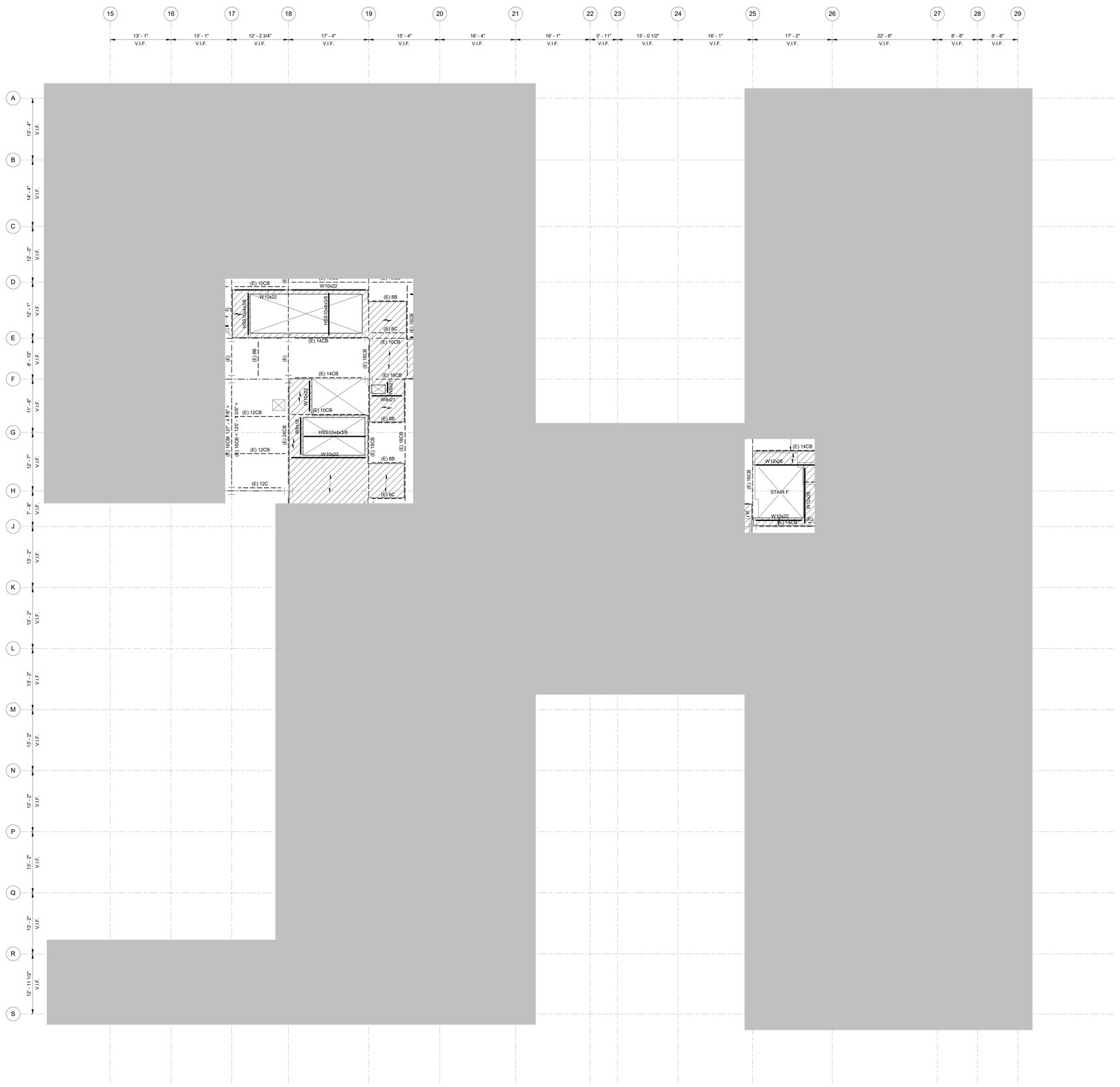

1 S-120 LEVEL 06 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 125'-5 7/8" (123'-10" ON EXISTING DRAWINGS)

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12. HOTEL LAYOUTS ARE STILL IN SCHEMATIC DESIGN. REFER TO THE 8TH - 12TH FRAMING PLANS AS REPRESENTATIVE OF THE ESTIMATED STEEL TONNAGE REQUIRED FOR NEW HOTEL FLOOR PENETRATIONS.

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190.08161
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PAGE NUMBER

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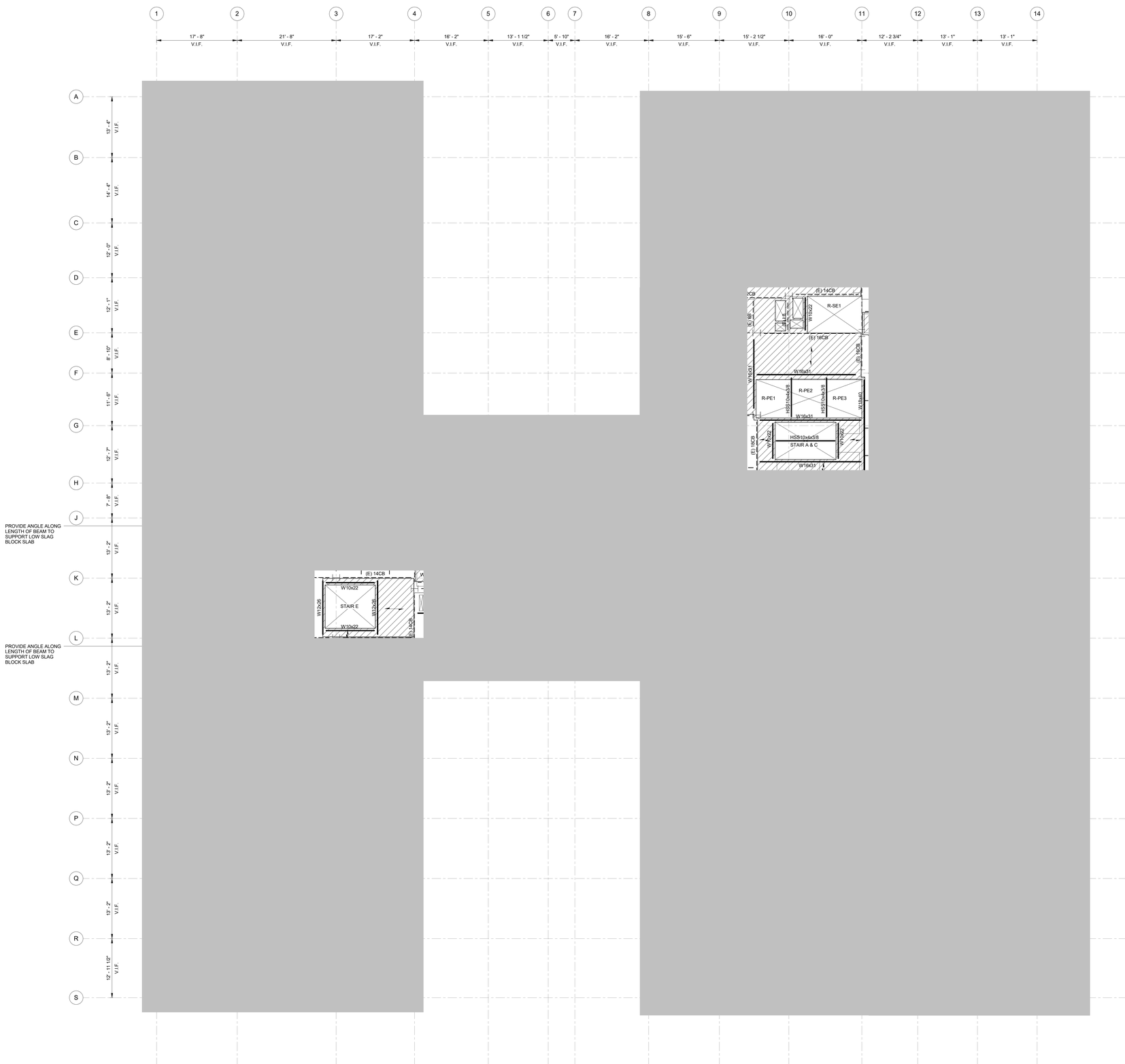

1 S-121 LEVEL 07 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 136'-3 7/8" (134'-8" ON EXISTING DRAWINGS)

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ELINOR C. ELLIOTT
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LEVEL 7 FRAMING - PART PLAN A

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PAGE NUMBER

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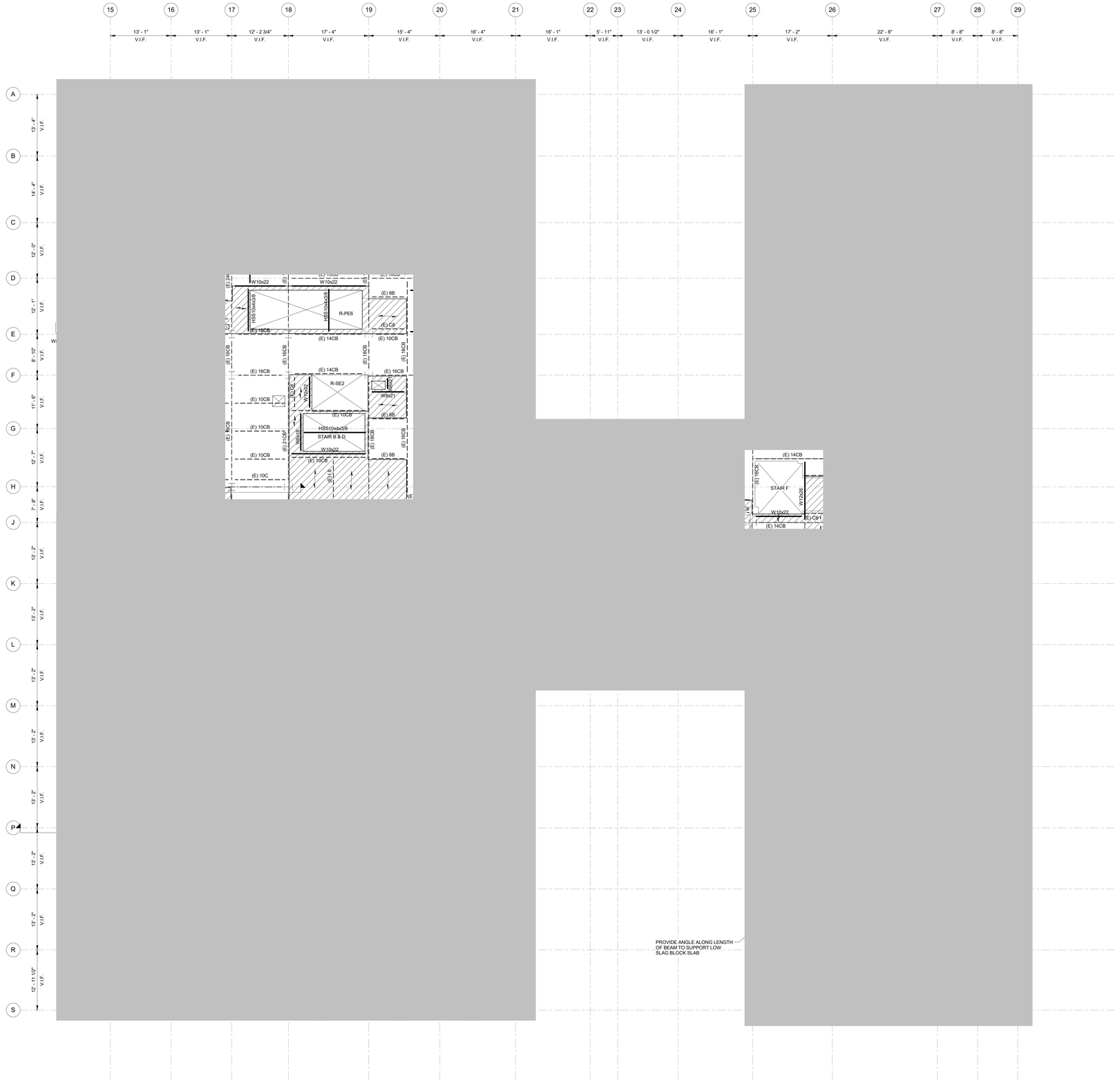

1 / S-122 LEVEL 07 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 136'-3 7/8" (134'-8" ON EXISTING DRAWINGS)

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11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.
12. HOTEL LAYOUTS ARE STILL IN SCHEMATIC DESIGN. REFER TO THE 8TH - 12TH FRAMING PLANS AS REPRESENTATIVE OF THE ESTIMATED STEEL TONNAGE REQUIRED FOR NEW HOTEL FLOOR PENETRATIONS.

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3	19 JUN 2017	ISSUED TO DOB
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LEVEL 7 FRAMING - PART PLAN B

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S-122.00

PAGE NUMBER

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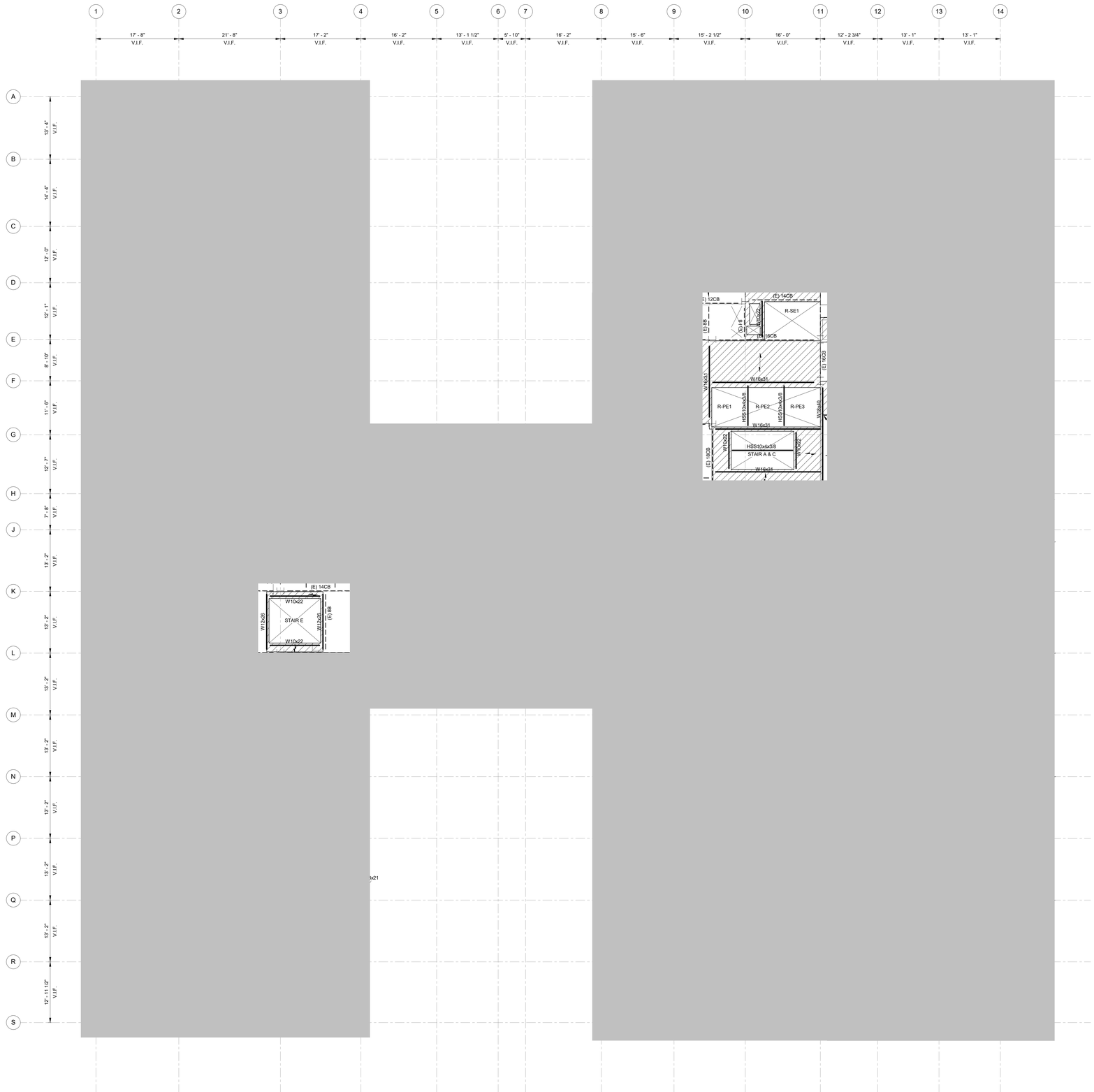

1 S-123 LEVEL 08 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 147'-1 7/8" (145'-6" ON EXISTING DRAWINGS)

NOTES

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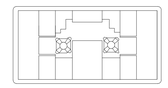

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LEVEL 8 FRAMING - PART PLAN A

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PAGE NUMBER

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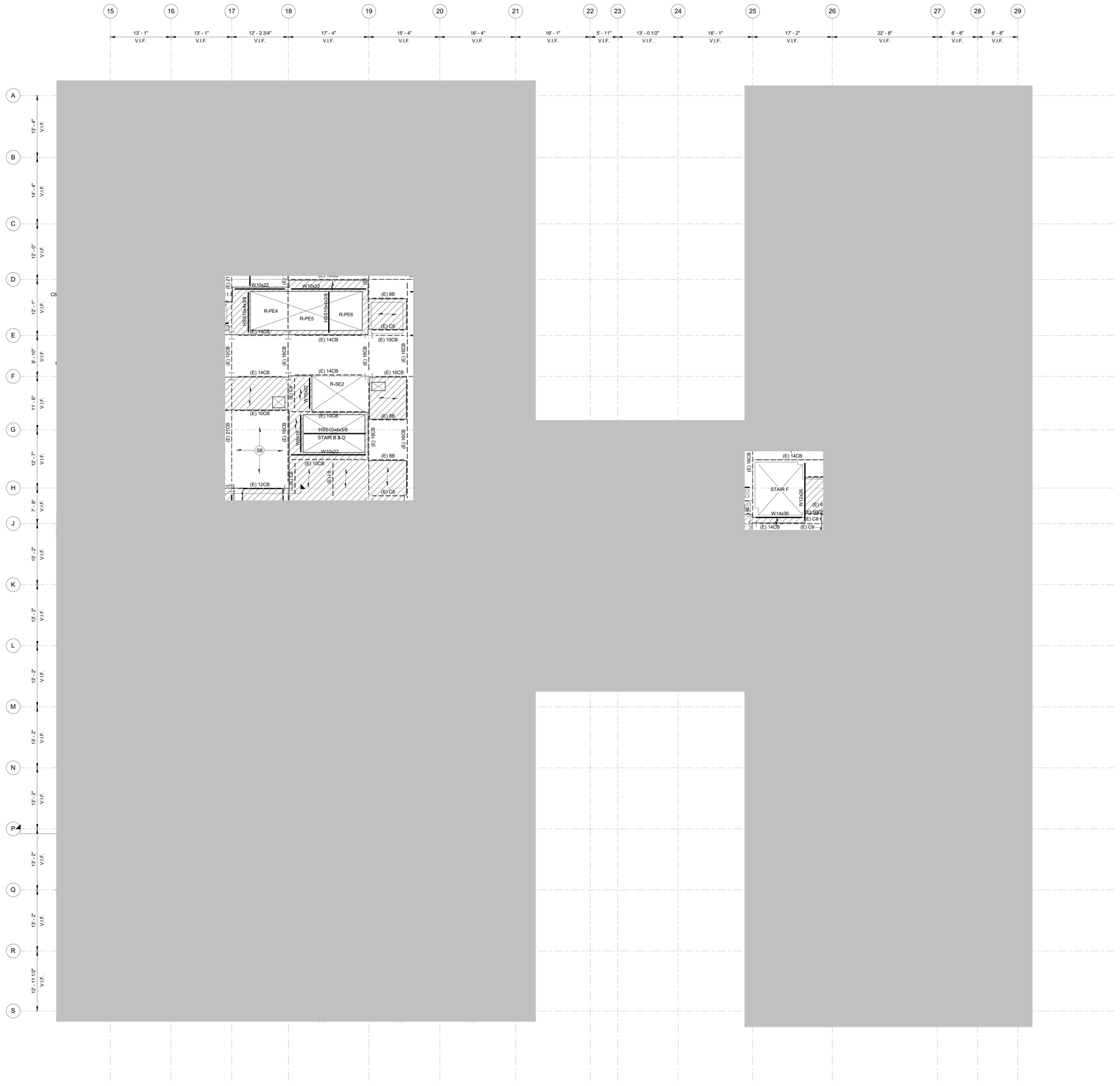

1 S-124 LEVEL 08 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 147'-1 7/8" (145'-6" ON EXISTING DRAWINGS)

NOTES

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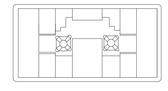

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LEVEL 8 FRAMING - PART PLAN B

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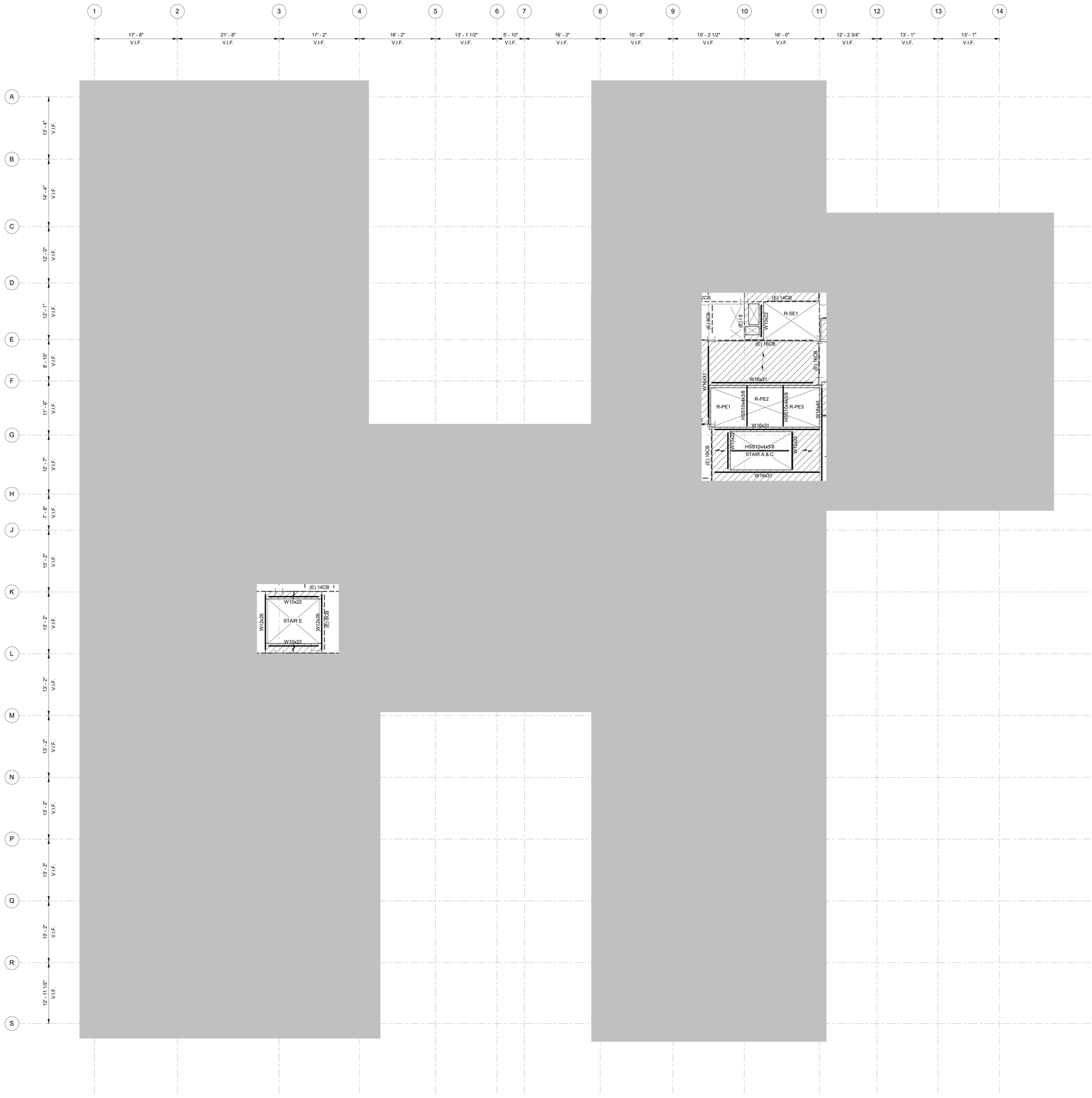

1 S-125 LEVEL 09 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 157'-11 7/8" (156'-4" ON EXISTING DRAWINGS)

NOTES

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LEVEL 9 FRAMING - PART PLAN A

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PAGE NUMBER

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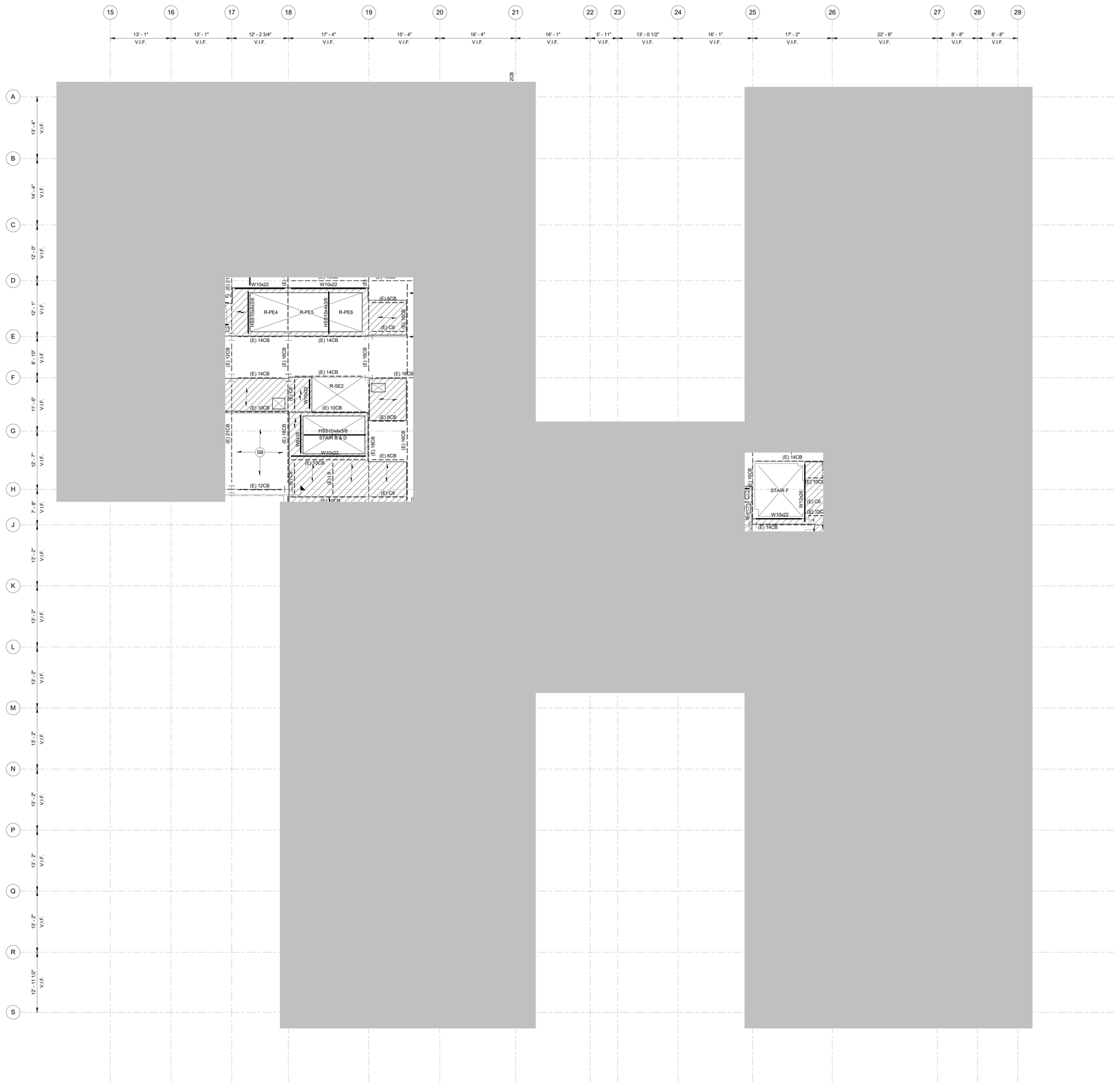

1 / S-126 LEVEL 09 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 157'-11 7/8" (156'-4" ON EXISTING DRAWINGS)

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LEVEL 9 FRAMING - PART PLAN B

B-SCAN - DRAWING NUMBER

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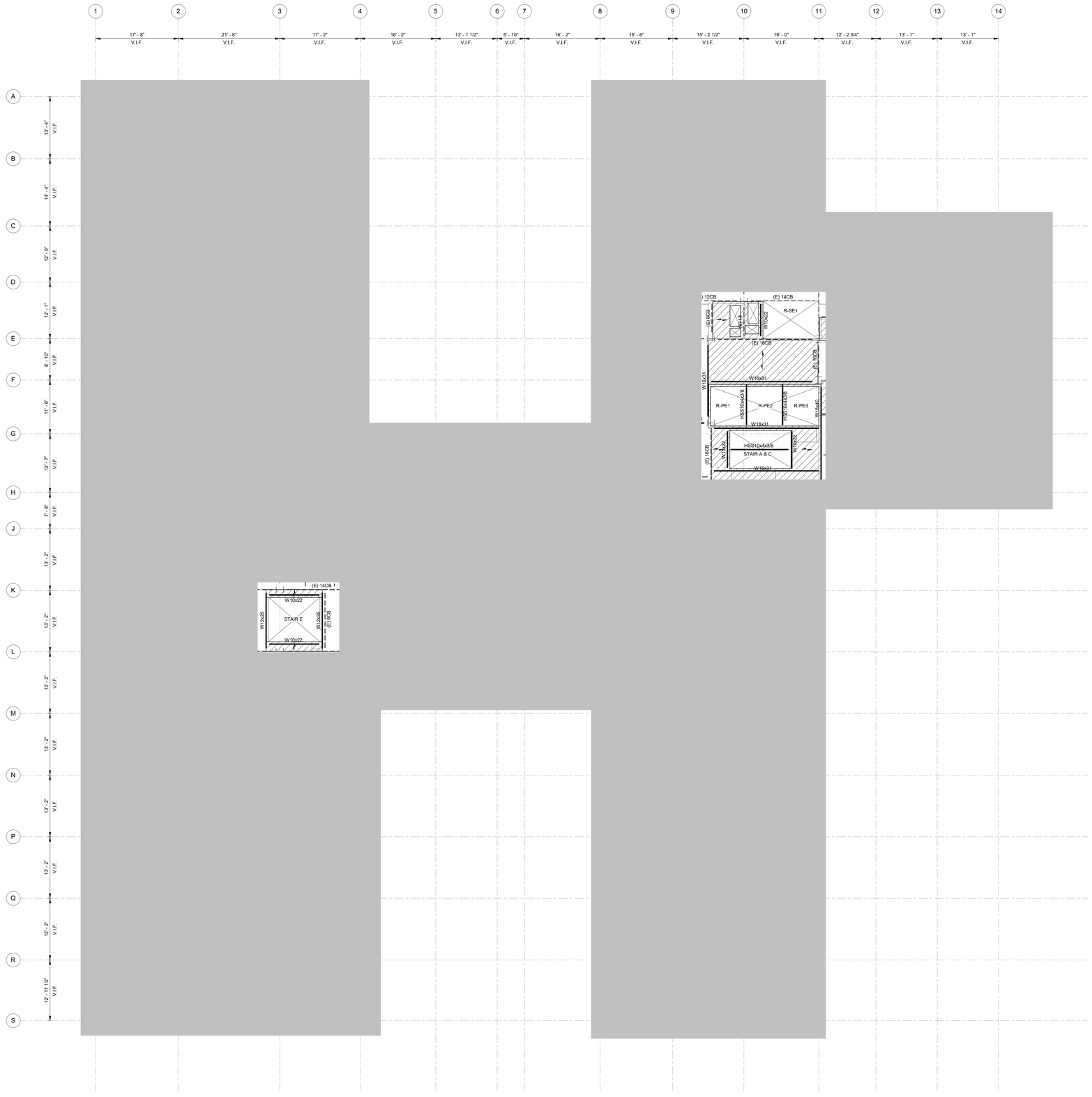

1 S-127 LEVEL 10 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 168'-9 7/8" (167'-2" ON EXISTING DRAWINGS)

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LEVEL 10 FRAMING - PART PLAN A

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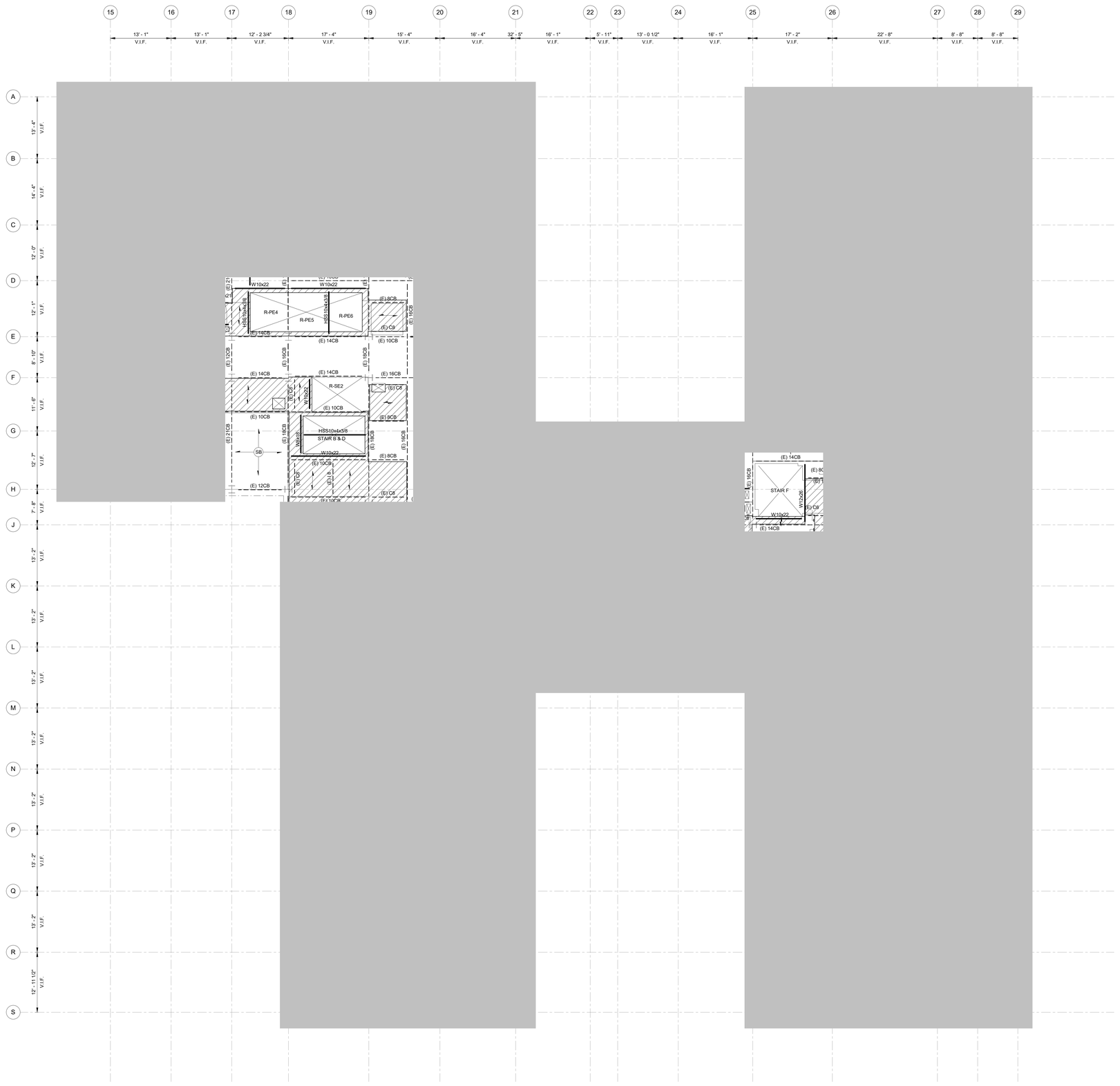

1 S-128 LEVEL 10 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 168'-9 7/8" (167'-2" ON EXISTING DRAWINGS)

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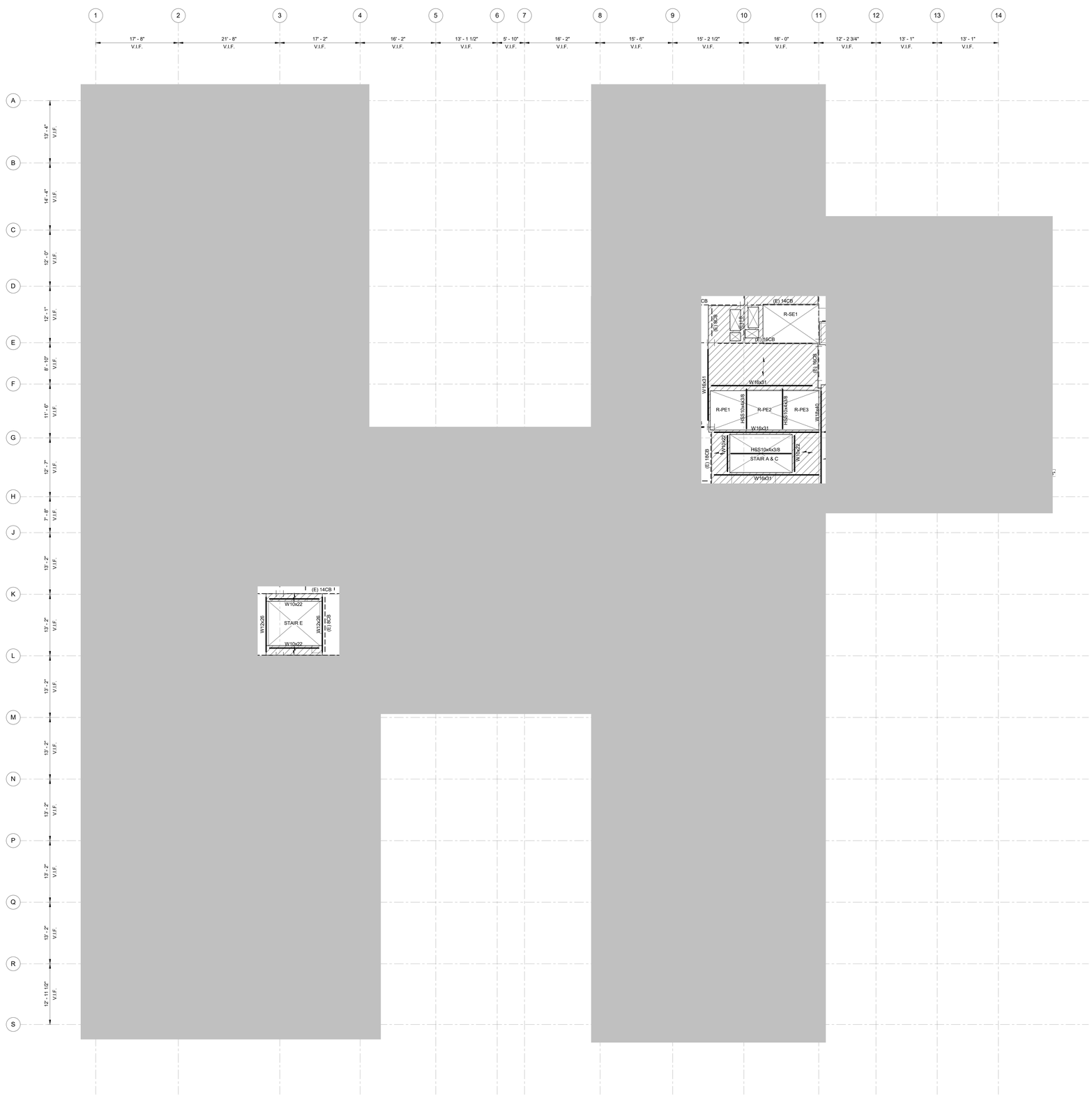

1 S-129 LEVEL 11 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 179'-7 7/8" (178'-0" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
3. ALL ELEVATIONS NOTED ARE RELATIVE TO NAVD88. REFER TO ARCHITECTURAL DRAWINGS FOR SURVEY ORIGIN
4. TOP OF EXISTING STEEL ELEVATION TO BE (-4 ½") BELOW TOP OF SLAB ELEVATION, TYP
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8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
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3	19 JUN 2017	ISSUED TO DOB
2	31 MAR 2017	ISSUED FOR BID PACKAGE 002.01
1	10 FEB 2017	ISSUED FOR BID PACKAGE 002

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LEVEL 11 FRAMING - PART PLAN A

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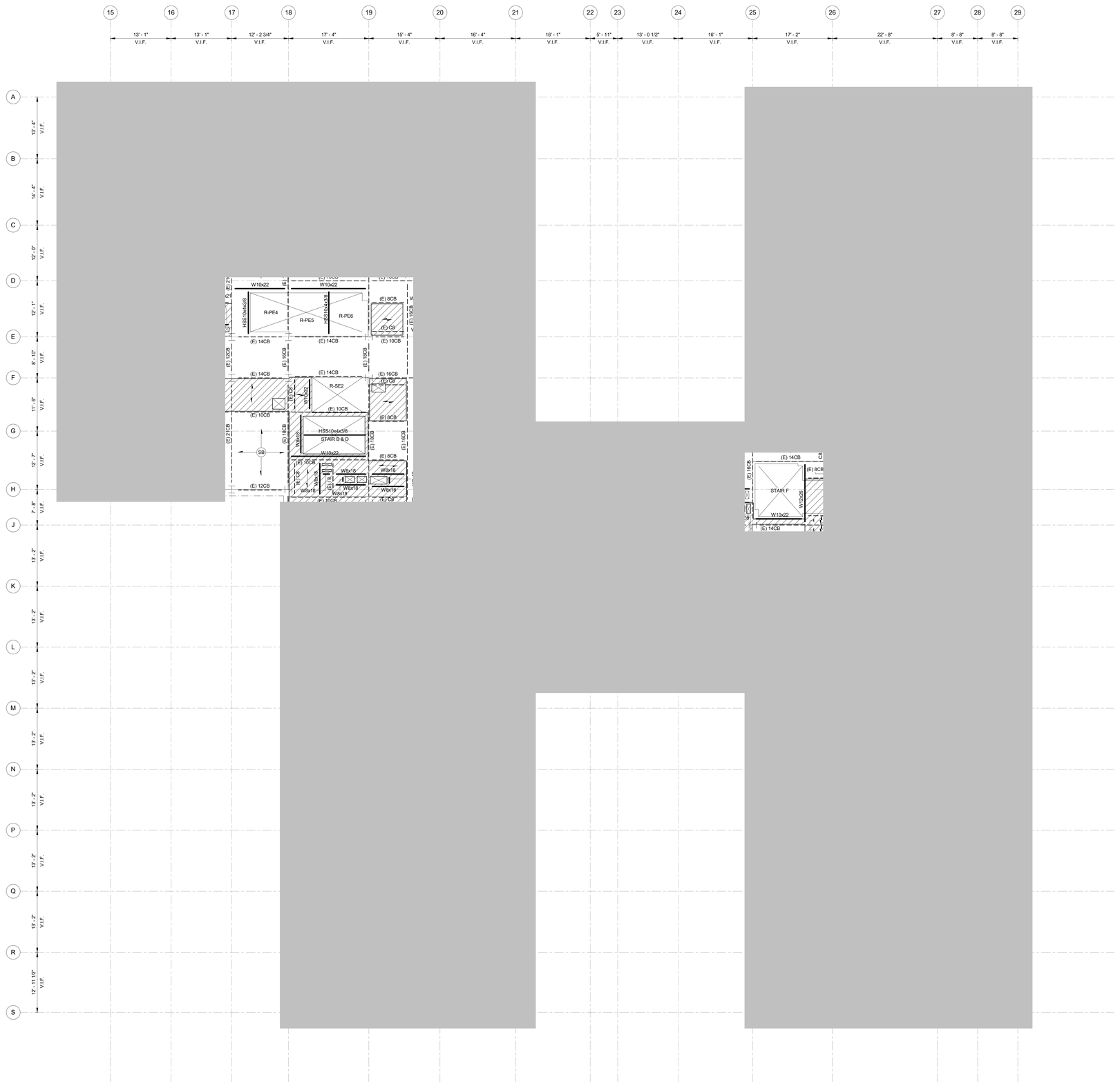

1 S-130 LEVEL 11 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 179'-7 7/8" (178-0" ON EXISTING DRAWINGS)

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LEVEL 11 FRAMING - PART PLAN B

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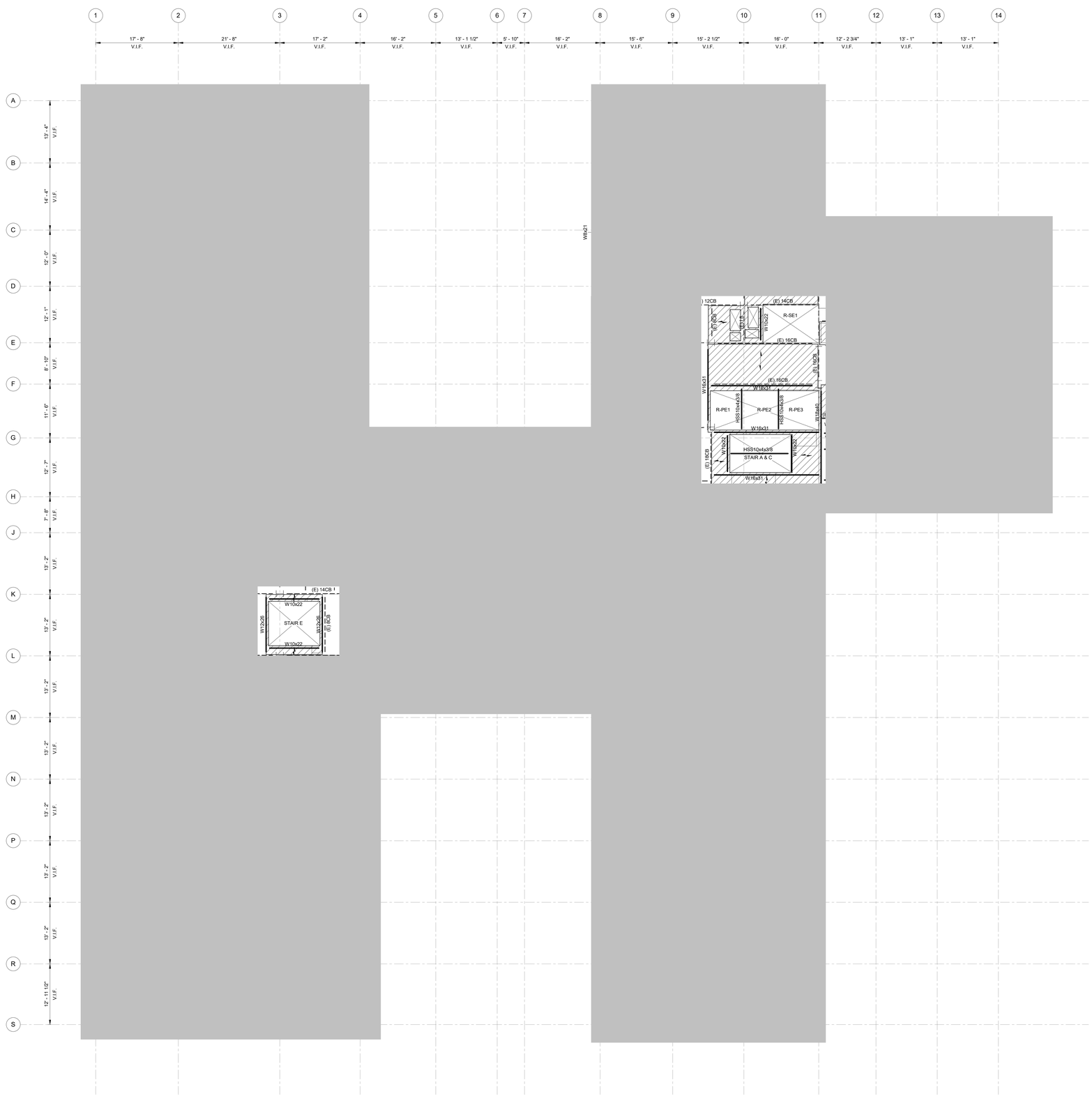

1 S-131 LEVEL 12 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 190'-5 7/8" (188'-10" ON EXISTING DRAWINGS)

NOTES

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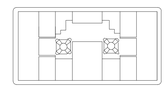

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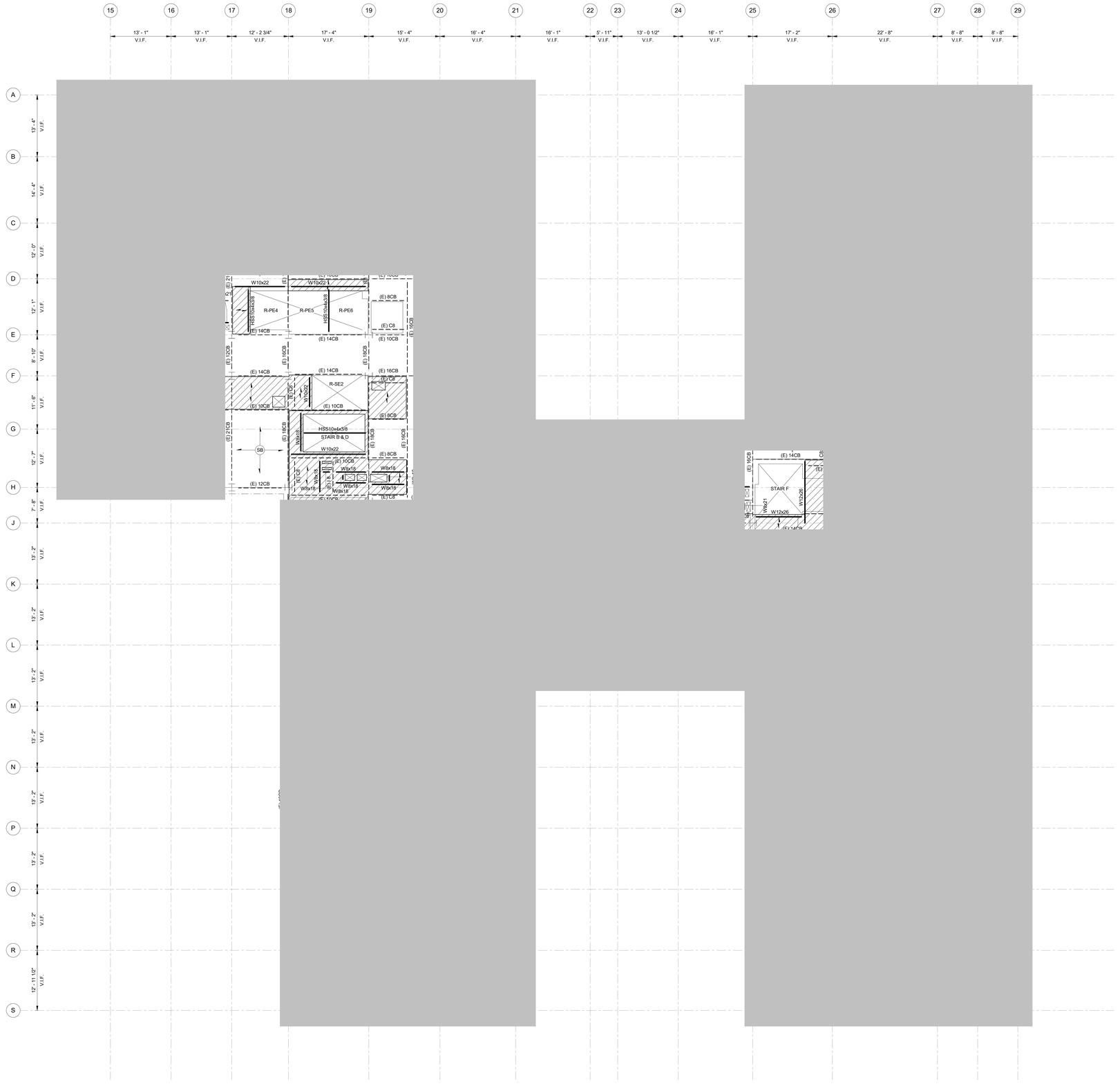

1 S-132 LEVEL 12 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 190'-5 7/8" (188'-10" ON EXISTING DRAWINGS)

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LEVEL 12 FRAMING - PART PLAN B

B-SCAN - DRAWING NUMBER

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PAGE NUMBER

87

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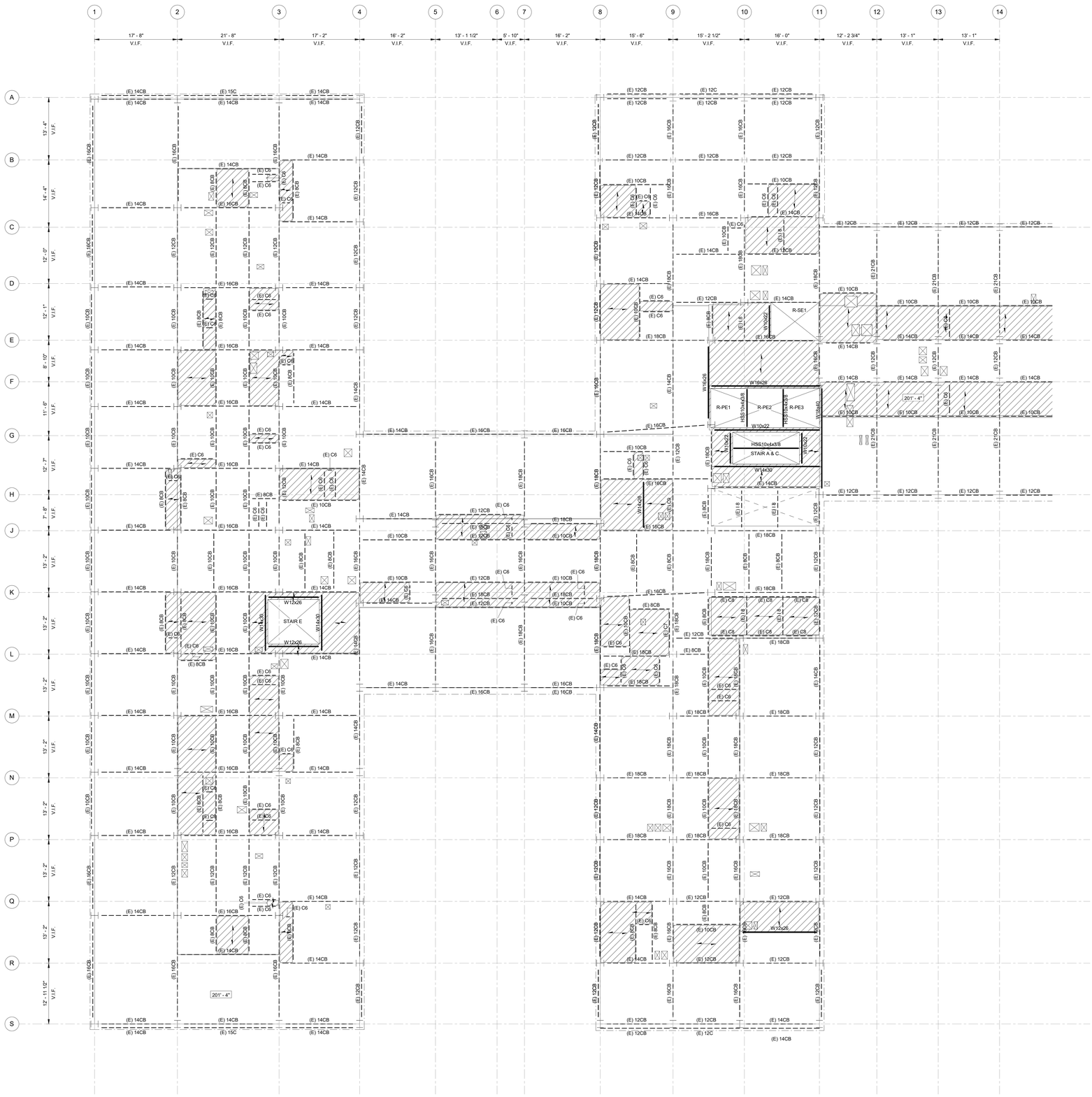

1 S-133 LEVEL 13 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 201'-3 7/8" (199'-8" ON EXISTING DRAWINGS)

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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

WALDORF ASTORIA

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LEVEL 13 FRAMING - PART PLAN A

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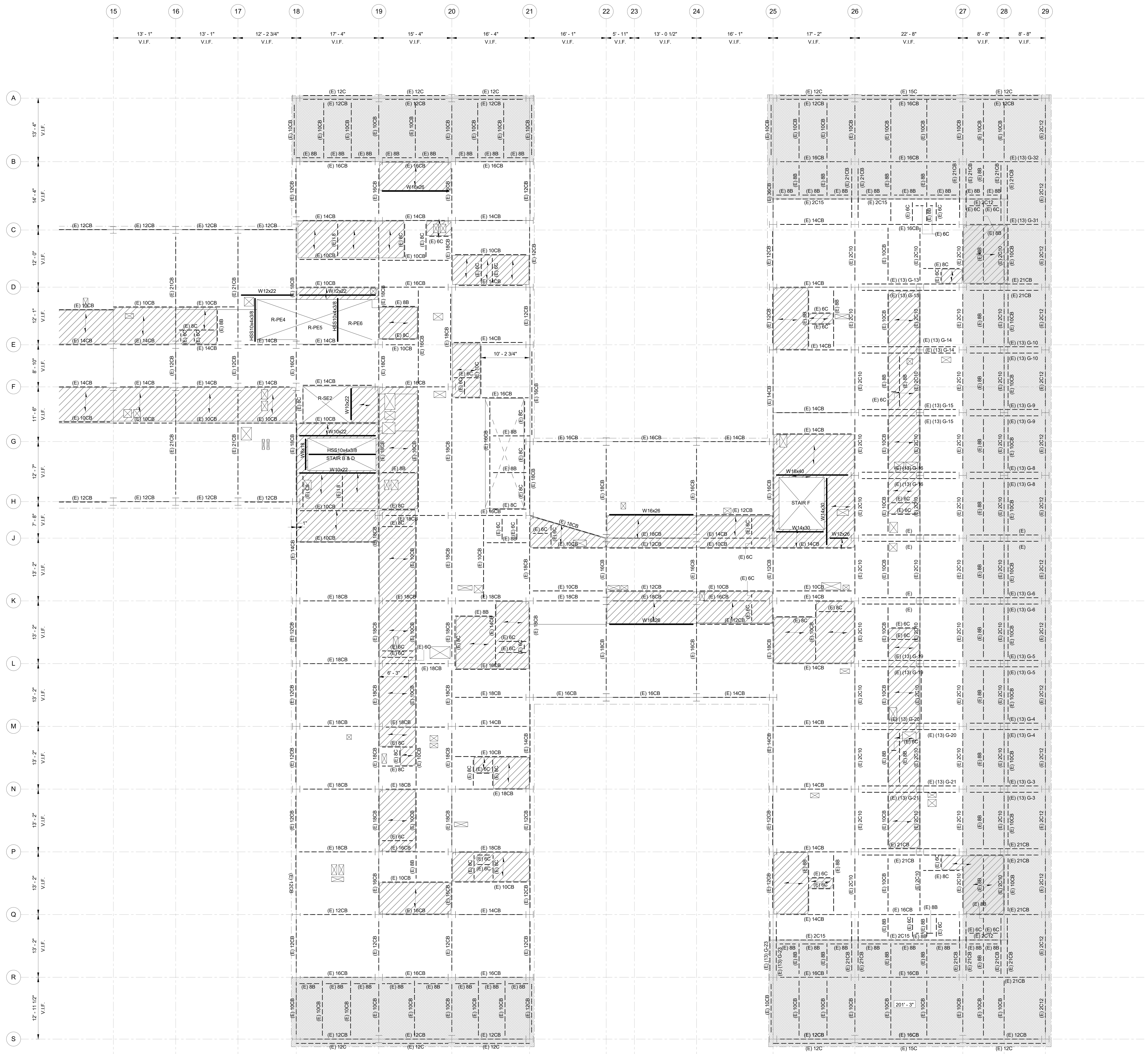

1 S-134 LEVEL 13 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 201'-3 7/8" (199'-8" ON EXISTING DRAWINGS)

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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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LEVEL 13 FRAMING - PART PLAN B

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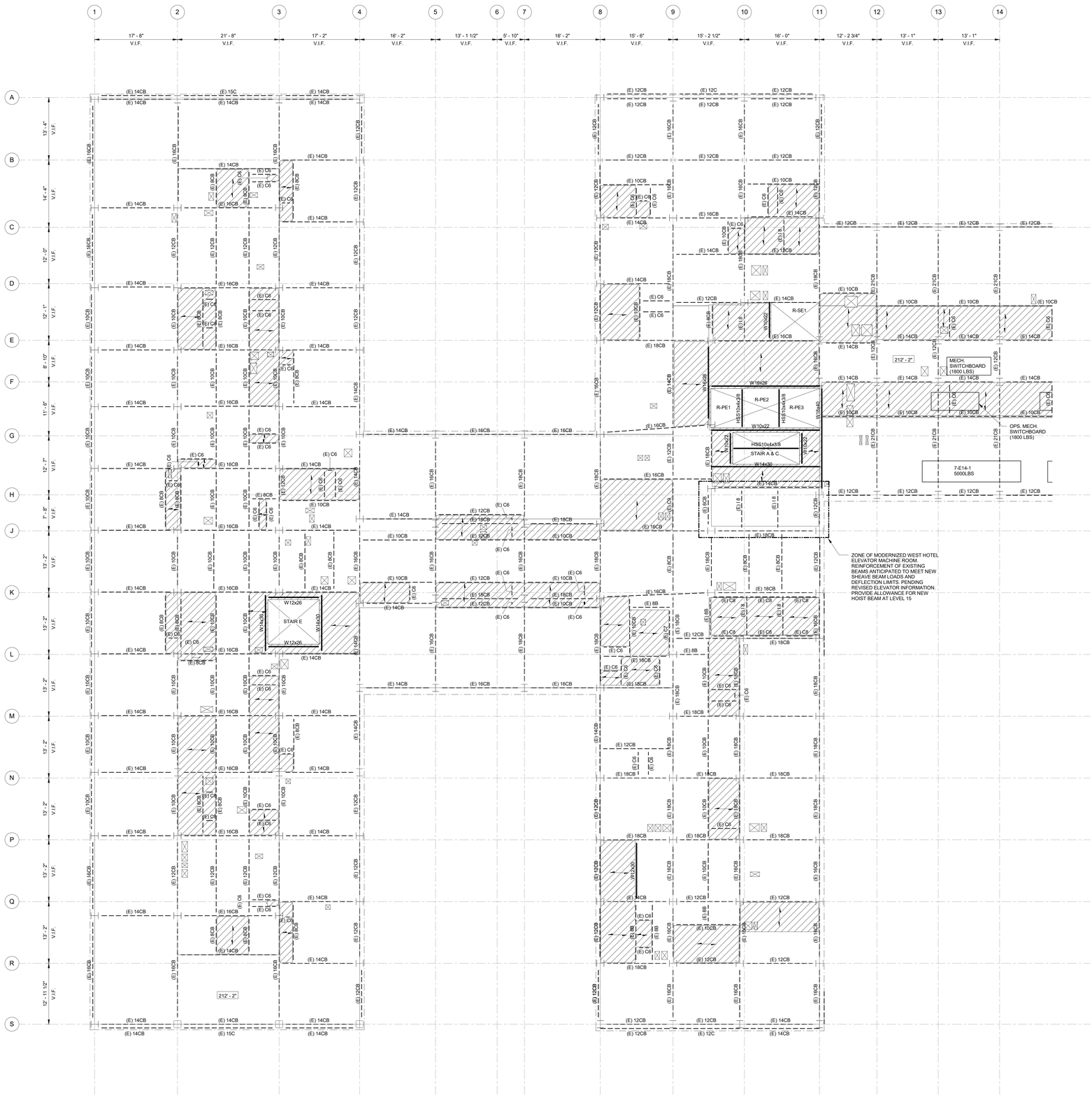

1 S-135 LEVEL 14 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 212'-1 7/8" (210'-6" ON EXISTING DRAWINGS)

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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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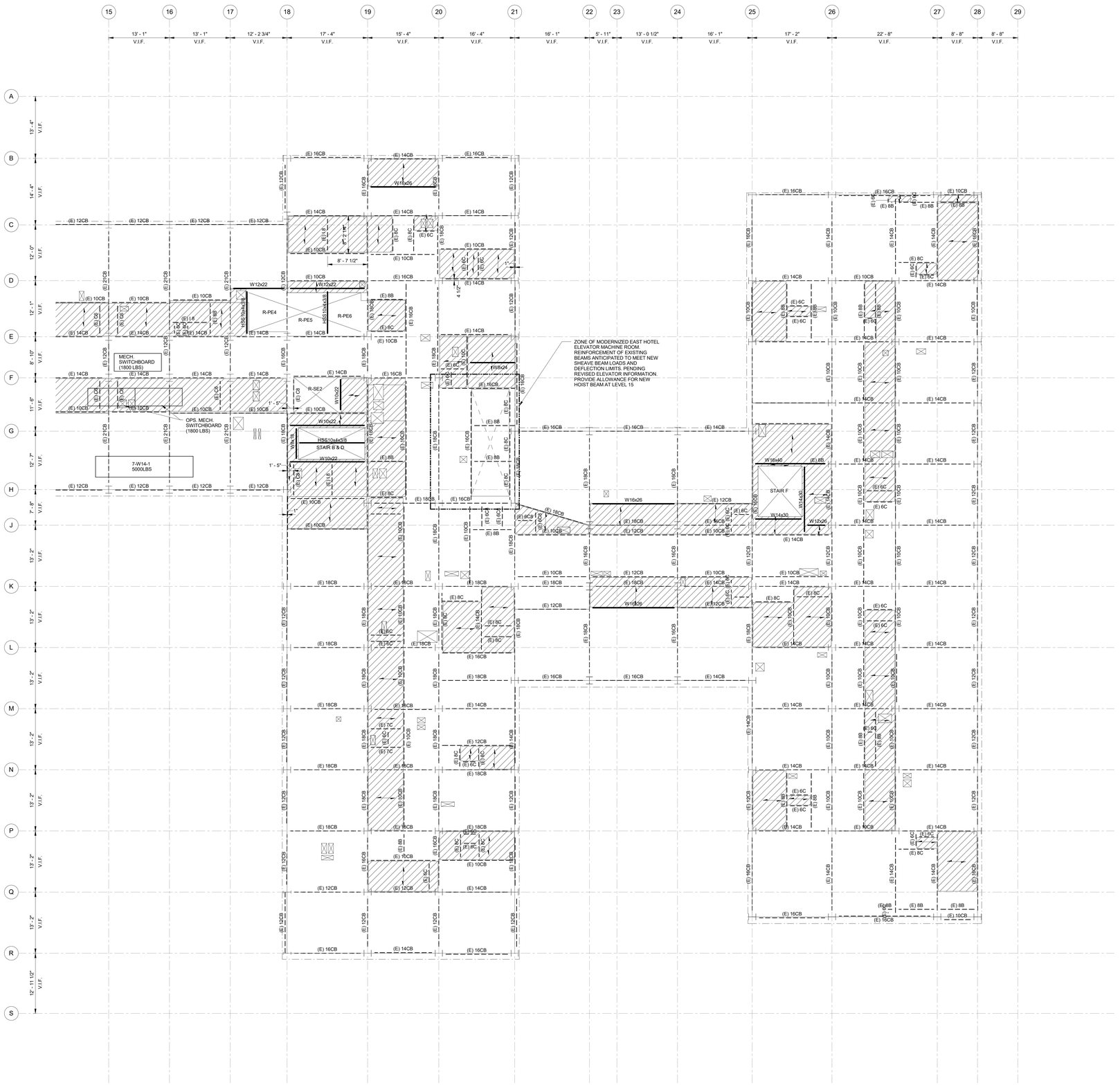
E1535920025 Scan Code



1 LEVEL 14 STEEL - PART B
S-136 1/8" = 1'-0"
TOP OF SLAB ELEVATION TO BE 212' 1 7/8" (210'-6" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
3. ALL ELEVATIONS NOTED ARE RELATIVE TO NAVD88. REFER TO ARCHITECTURAL DRAWINGS FOR SURVEY ORIGIN
4. TOP OF EXISTING STEEL ELEVATION TO BE (-4 ½") BELOW TOP OF SLAB ELEVATION, TYP
5. TOP OF NEW STEEL ELEVATION TO BE (-1") BELOW BOTTOM OF SLAB ELEVATION, TYP U.O.N ON PLAN
6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION NOT SHOWN ON PLAN
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.

SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

WALDORF ASTORIA

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VERTICAL TRANSPORTATION
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TRAFFIC, PARKING, AND LOADING
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WPM Engineering, P.C.

SECURITY CONSULTANT
Kroll Inc.

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Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

STATE OF NEW YORK
ELIHU C. ELIJOR
160.08161
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
1	10 FEB 2017	ISSUED TO DOB

DRAWING TITLE

LEVEL 14 FRAMING - PART PLAN B

B-SCAN - DRAWING NUMBER

S-136.00

PAGE NUMBER
7 OF 87

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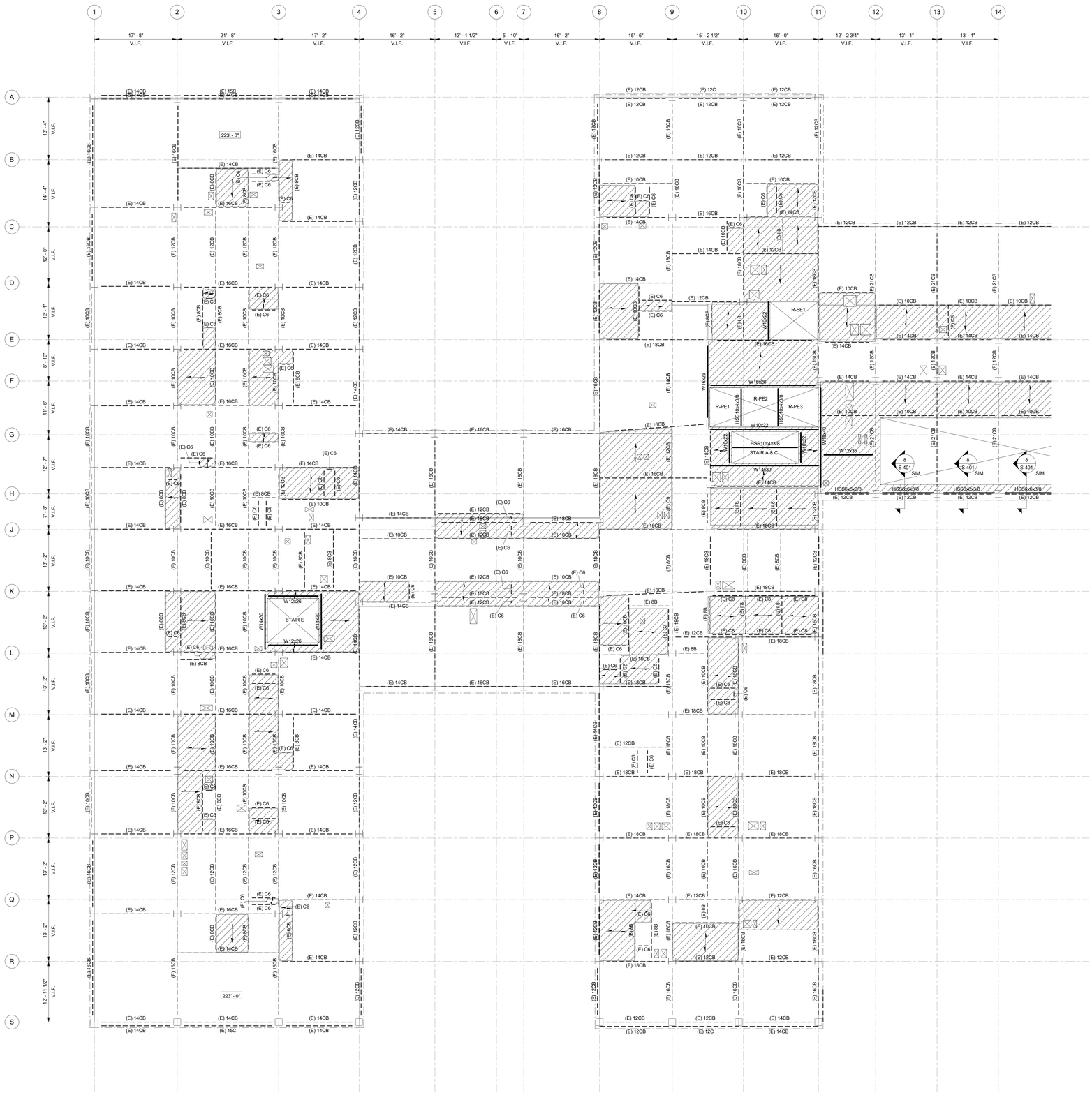
DEPT OF BLDGS 421351245 Job Number
E395083983 Scan Code



1 S-137 LEVEL 15 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 222'-11 7/8" (221'-4" ON EXISTING DRAWINGS)

NOTES

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SCOPE NOTES:

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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STEPHEN C. ELLIOTT
No. 082617
LICENSED PROFESSIONAL ENGINEER

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LEVEL 15 FRAMING - PART PLAN A

B-SCAN - DRAWING NUMBER

S-137.00

PAGE NUMBER

8 OF 87

SILMAN #17140

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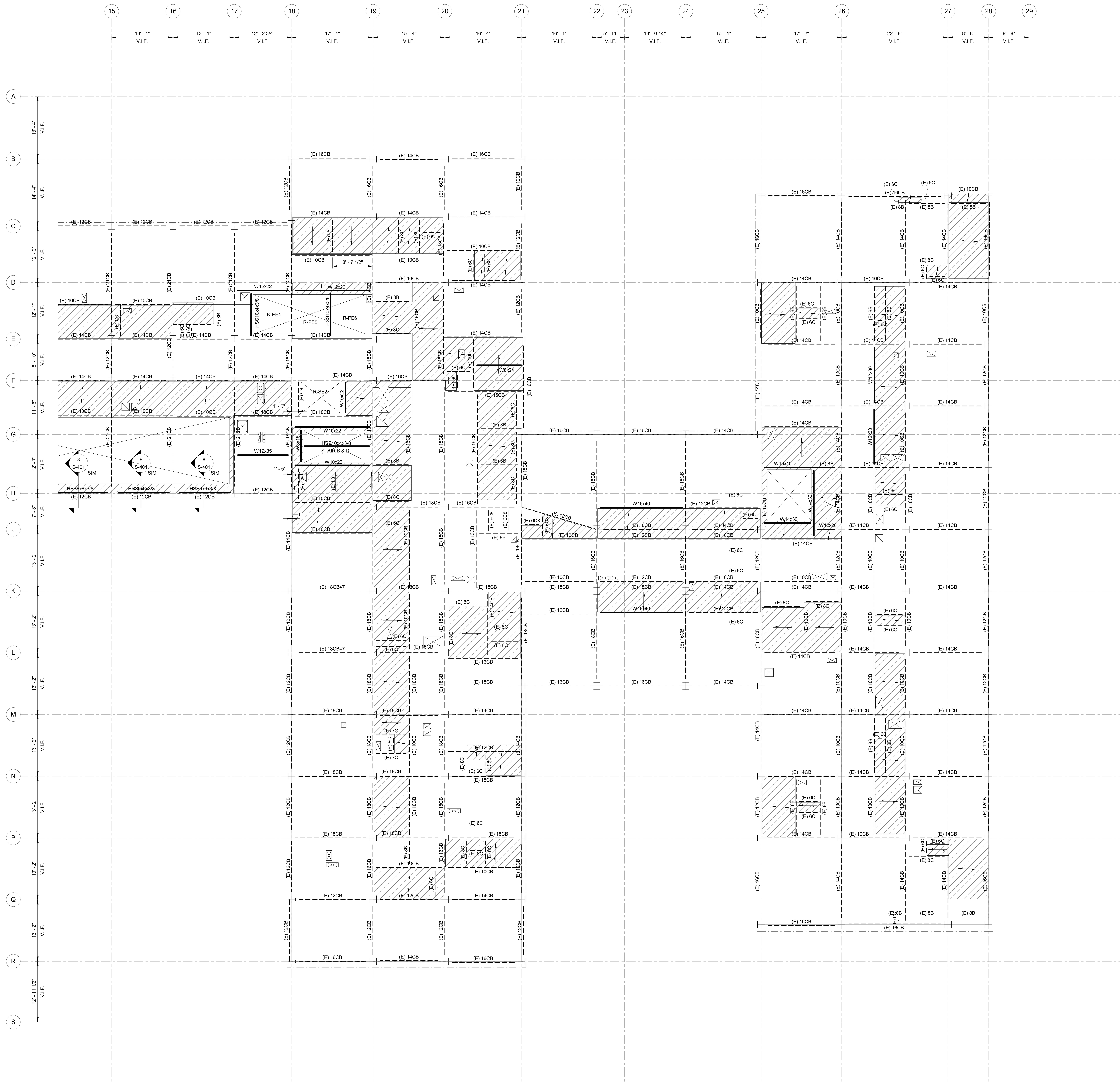

LEVEL 15 STEEL - PART B

1 S-138

1/8" = 1'-0"

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SILMAN #17140

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SECURITY CONSULTANT

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LEVEL 15 FRAMING - PART PLAN B

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S-138.00

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9 OF 87

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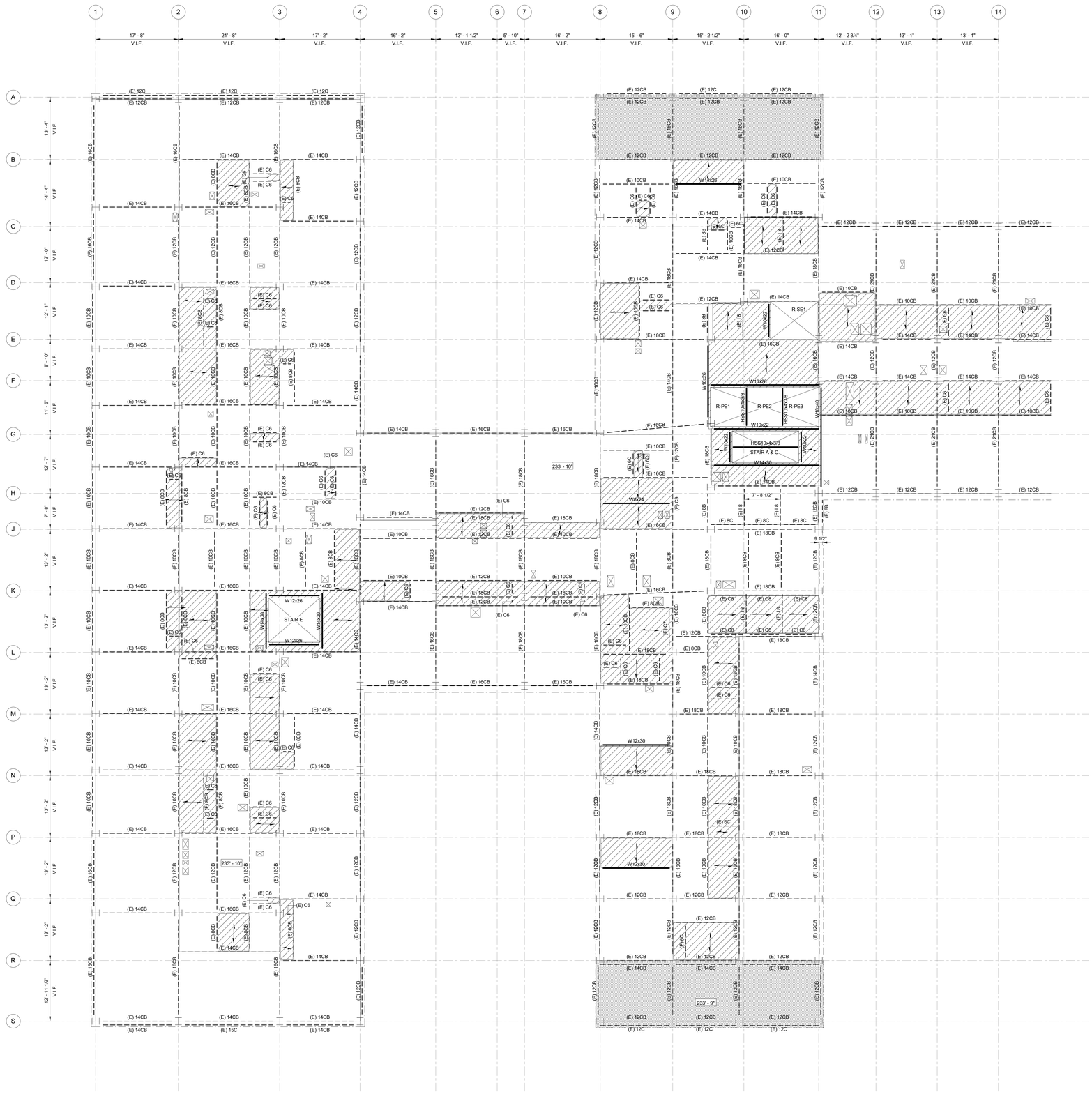

1 S-139 LEVEL 16 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 233'-9 7/8" (232'-2" ON EXISTING DRAWINGS)

NOTES

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BLAIR C. ELIOT
NO. 085161
LICENSED PROFESSIONAL ENGINEER

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LEVEL 16 FRAMING - PART PLAN A

B-SCAN - DRAWING NUMBER

S-139.00

PAGE NUMBER

10 OF 87

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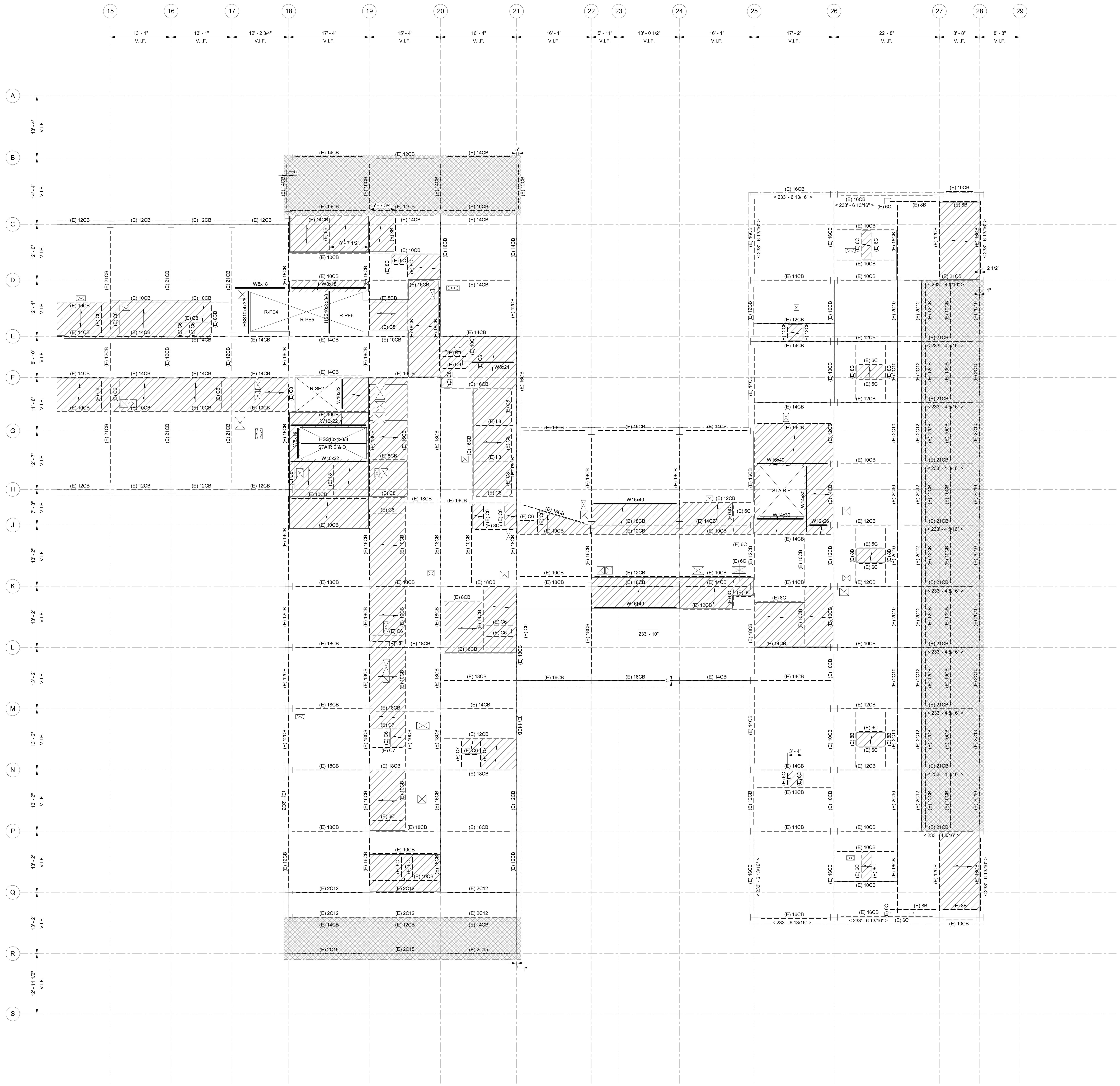

1 S-140

LEVEL 16 STEEL - PART B

1/8" = 1'-0"

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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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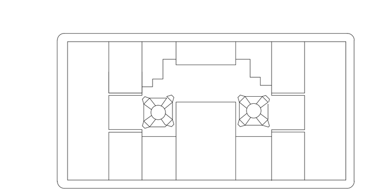

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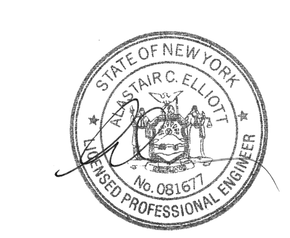

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LEVEL 16 FRAMING - PART PLAN B

B-SCAN - DRAWING NUMBER

S-140.00

PAGE NUMBER

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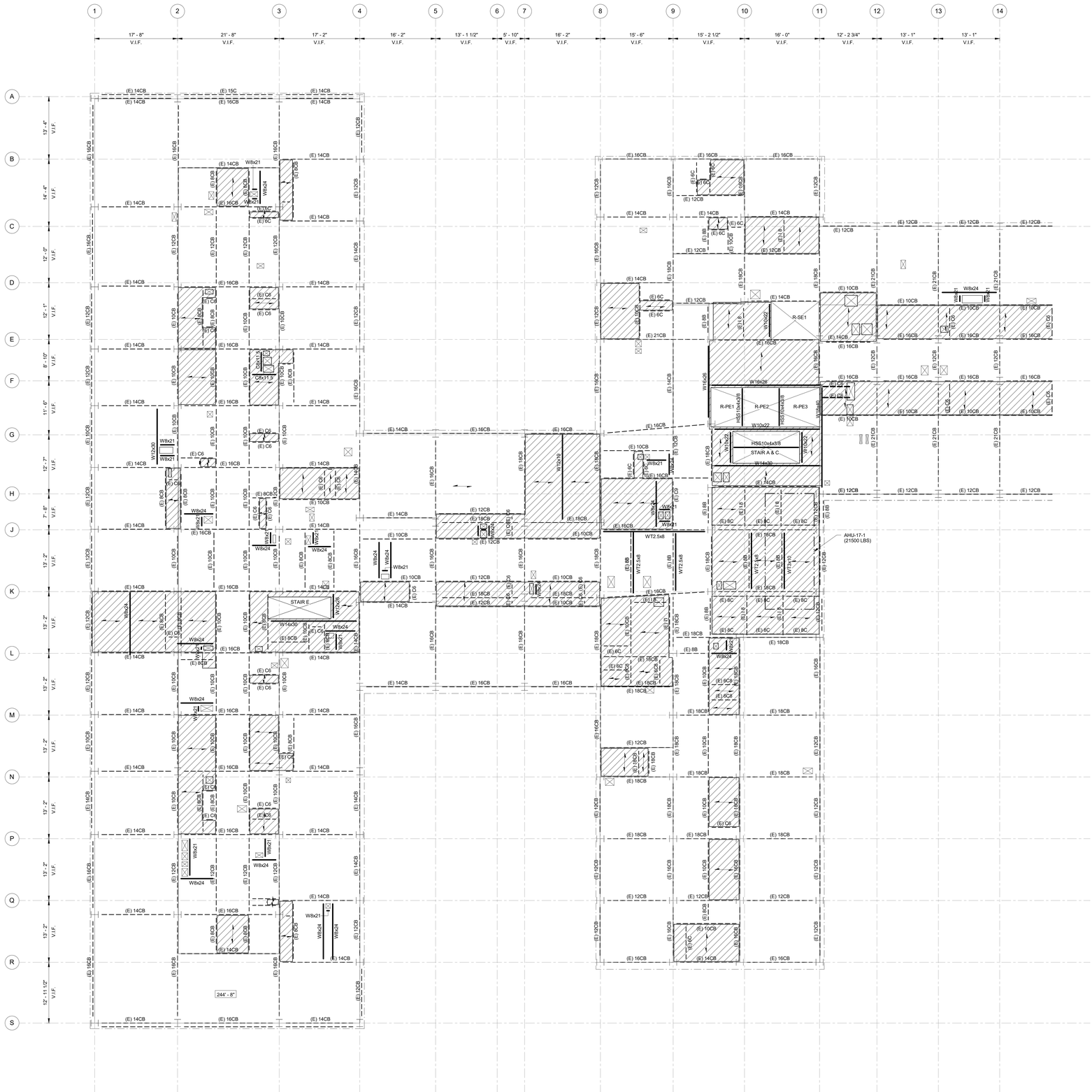
ES5143991605 Scan Code



1 LEVEL 17 STEEL - PART A
S-141 1/8" = 1'-0"
TOP OF SLAB ELEVATION TO BE 244'-7 7/8" (243'-0" ON EXISTING DRAWINGS)

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No. 081677
LICENSED PROFESSIONAL ENGINEER

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DRAWING TITLE

LEVEL 17 FRAMING - PART PLAN A

B-SCAN - DRAWING NUMBER

S-141.00

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12 OF 87

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DEPT OF BLDGS 121315245 Job Number
E389535037SI Scan Code

1 LEVEL 17 STEEL - PART B
S-142
1/8" = 1'-0"
TOP OF SLAB ELEVATION TO BE 244'-7 7/8" (243'-0" ON EXISTING DRAWINGS)

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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

WALDORF ASTORIA

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LOGISTICS CONSULTANT

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EXTERIOR WALL CONSULTANT

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DRAWING TITLE

LEVEL 17 FRAMING - PART PLAN B

B-SCAN - DRAWING NUMBER

S-142.00

PAGE NUMBER

13 OF 87

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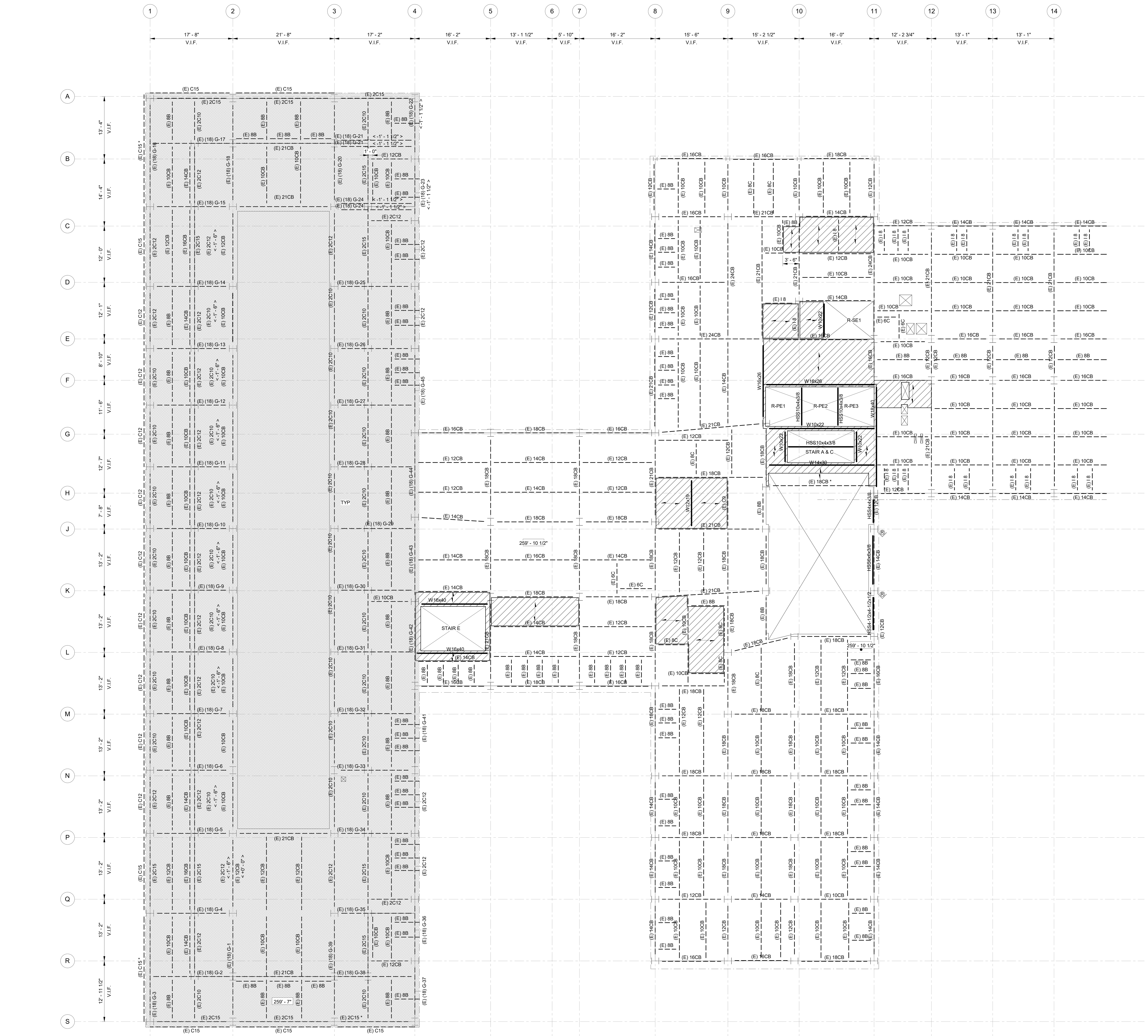

1 LEVEL 18 STEEL - PART A
S-143
1/8" = 1'-0"
TOP OF SLAB ELEVATION TO BE 259'-10 7/8" (258'-3" ON EXISTING DRAWINGS)

NOTES

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5. TOP OF NEW STEEL ELEVATION TO BE (-1") BELOW BOTTOM OF SLAB ELEVATION, TYP U.O.N ON PLAN
6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION NOT SHOWN ON PLAN
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.

SCOPE NOTES:

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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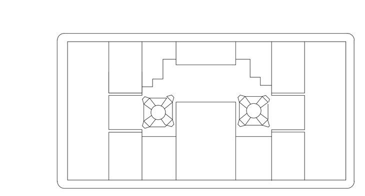

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LEVEL 18 FRAMING - PART PLAN A

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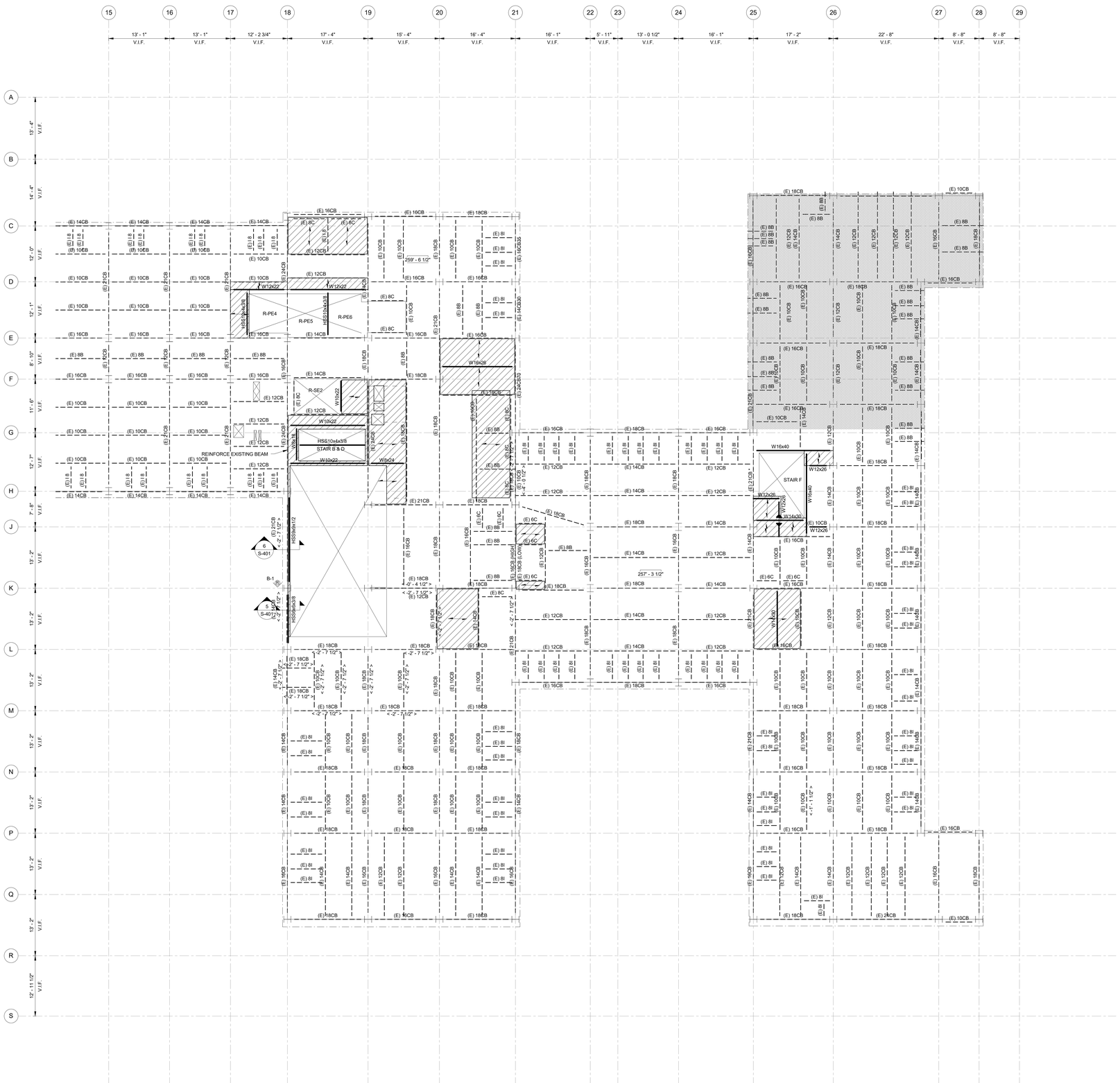

1 S-144 LEVEL 18 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 273'-1 7/8" (271'-6" ON EXISTING DRAWINGS)

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SCOPE NOTES:

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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LEVEL 18 FRAMING - PART PLAN B

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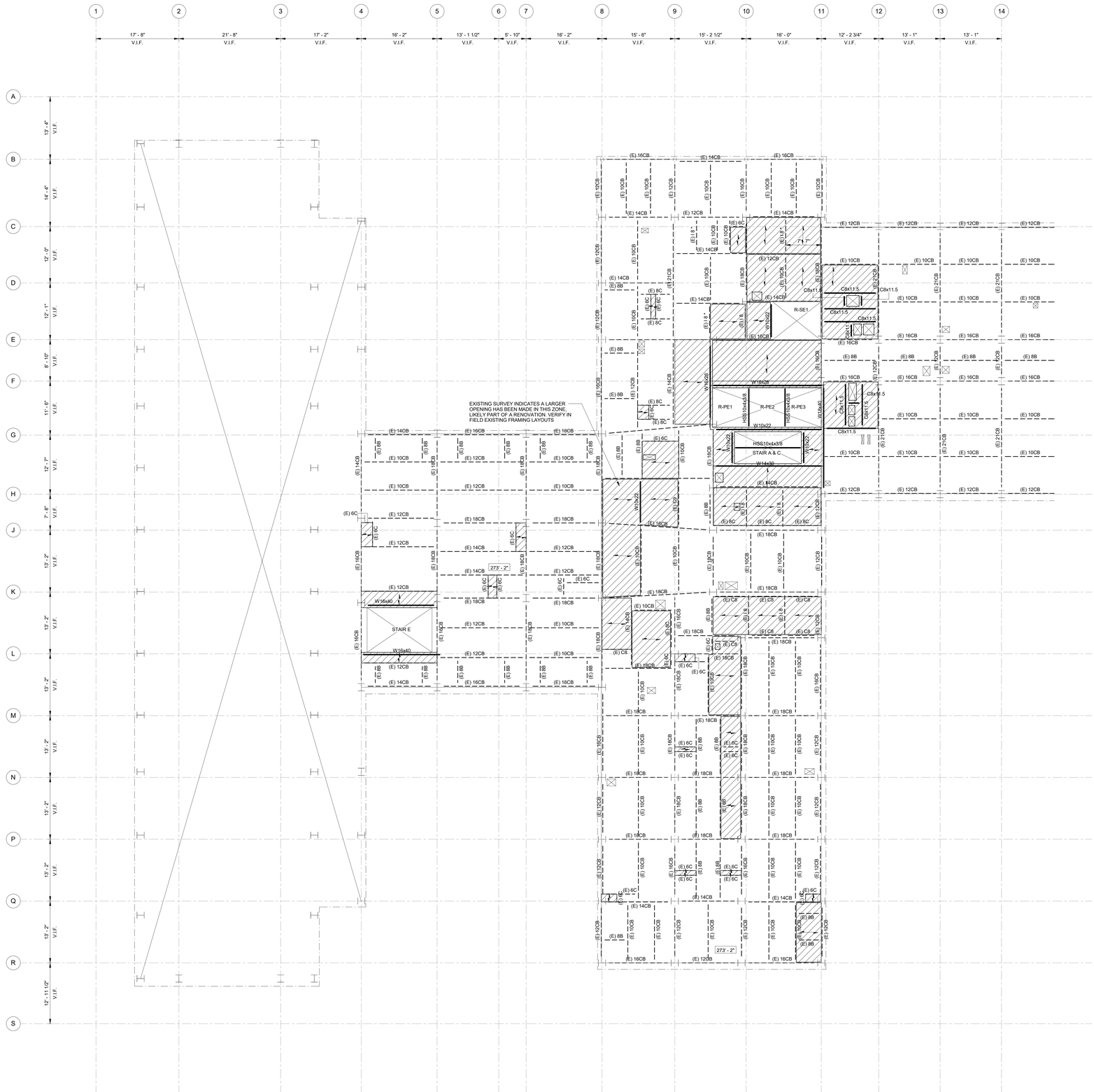

1 LEVEL 19 STEEL - PART A
S-145
1/8" = 1'-0"
TOP OF SLAB ELEVATION TO BE 273'-1 7/8" (271'-6" ON EXISTING DRAWINGS)

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LEVEL 19 FRAMING - PART PLAN A

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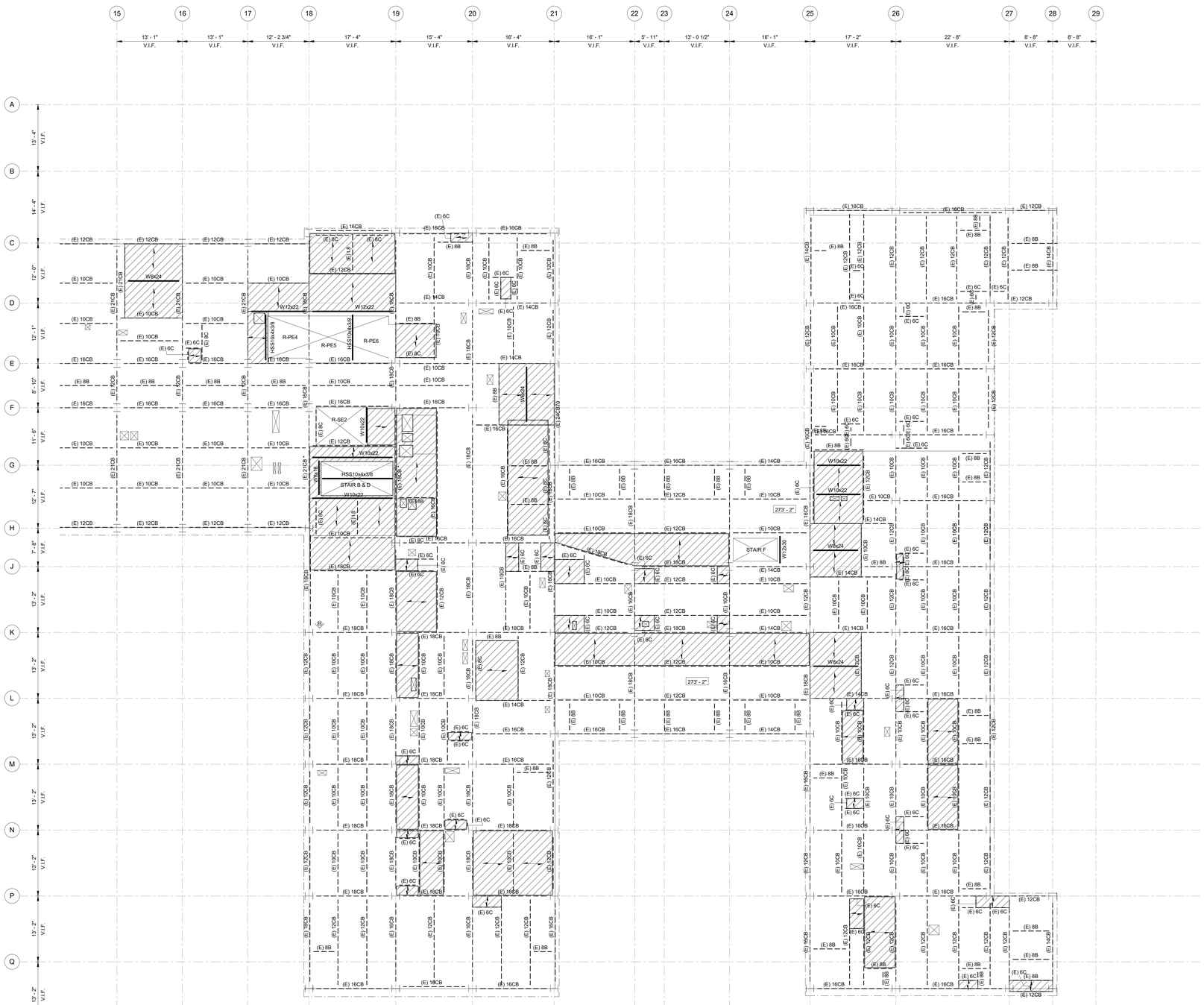

1 S-146 LEVEL 19 STEEL - PART B

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 273'-1 7/8" (271'-6" ON EXISTING DRAWINGS)

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LEVEL 19 FRAMING - PART PLAN B

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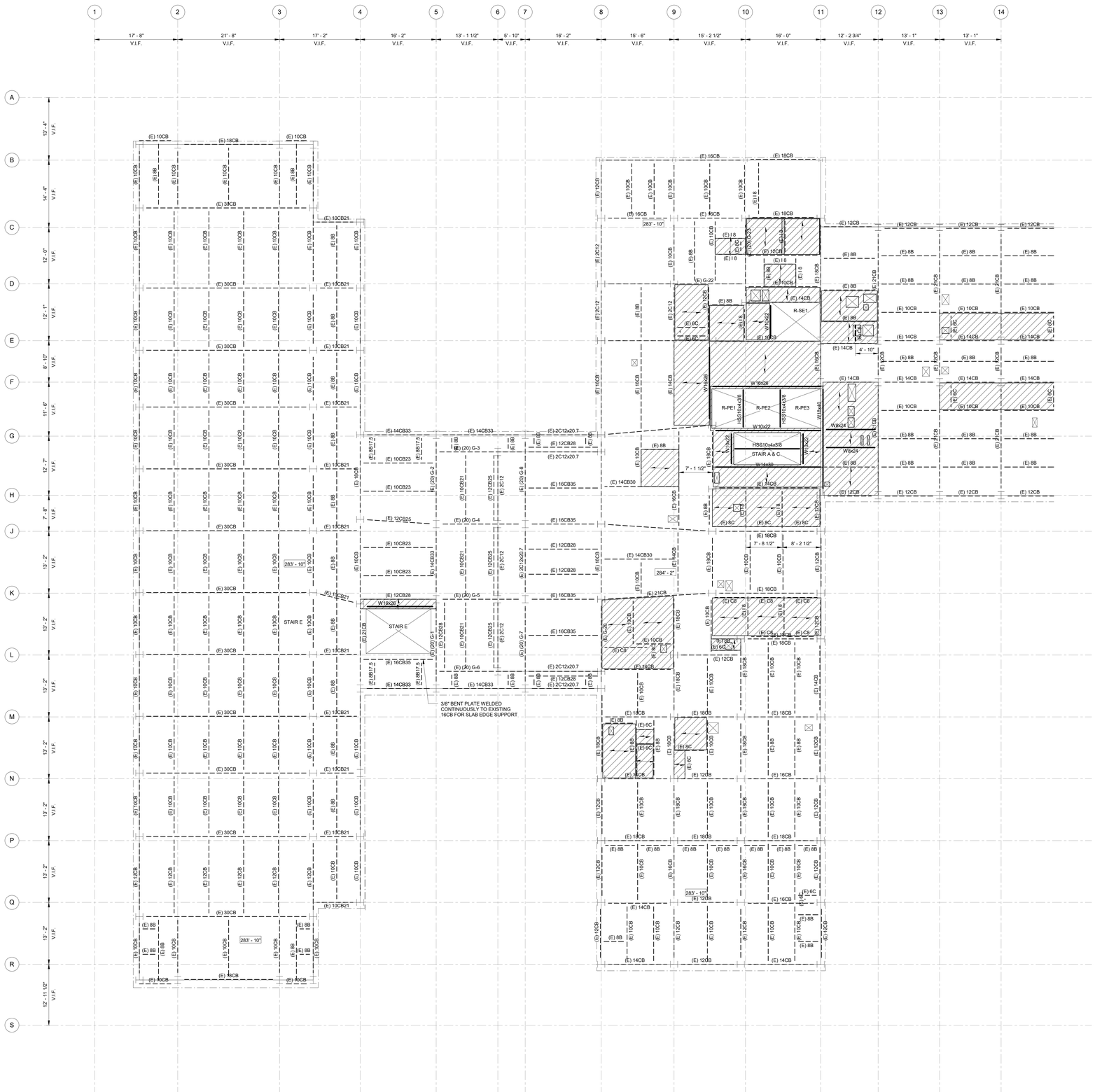

1 S-147 LEVEL 20 STEEL - PART A

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 284'-1 7/8" (282'-6" ON EXISTING DRAWINGS)

NOTES

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LEVEL 20 FRAMING - PART PLAN A

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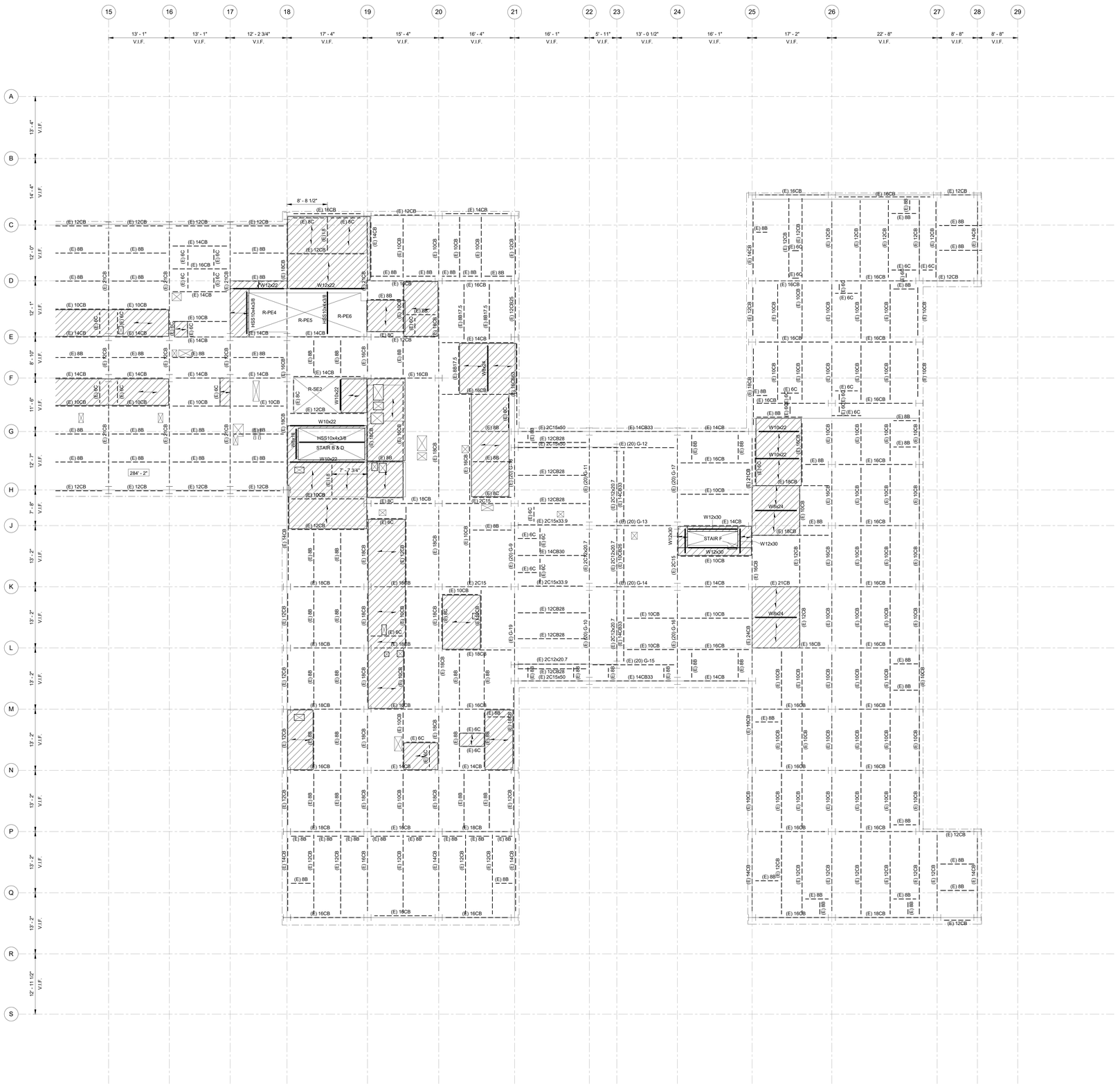

1 S-148 LEVEL 20 STEEL - PART B

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TOP OF SLAB ELEVATION TO BE 284'-1 7/8" (282'-6" ON EXISTING DRAWINGS)

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LEVEL 20 FRAMING - PART PLAN B

B-SCAN - DRAWING NUMBER

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1 / S-149 LEVEL 21 STEEL - PART A
1/8" = 1'-0"

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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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LEVEL 21 FRAMING - PART PLAN A

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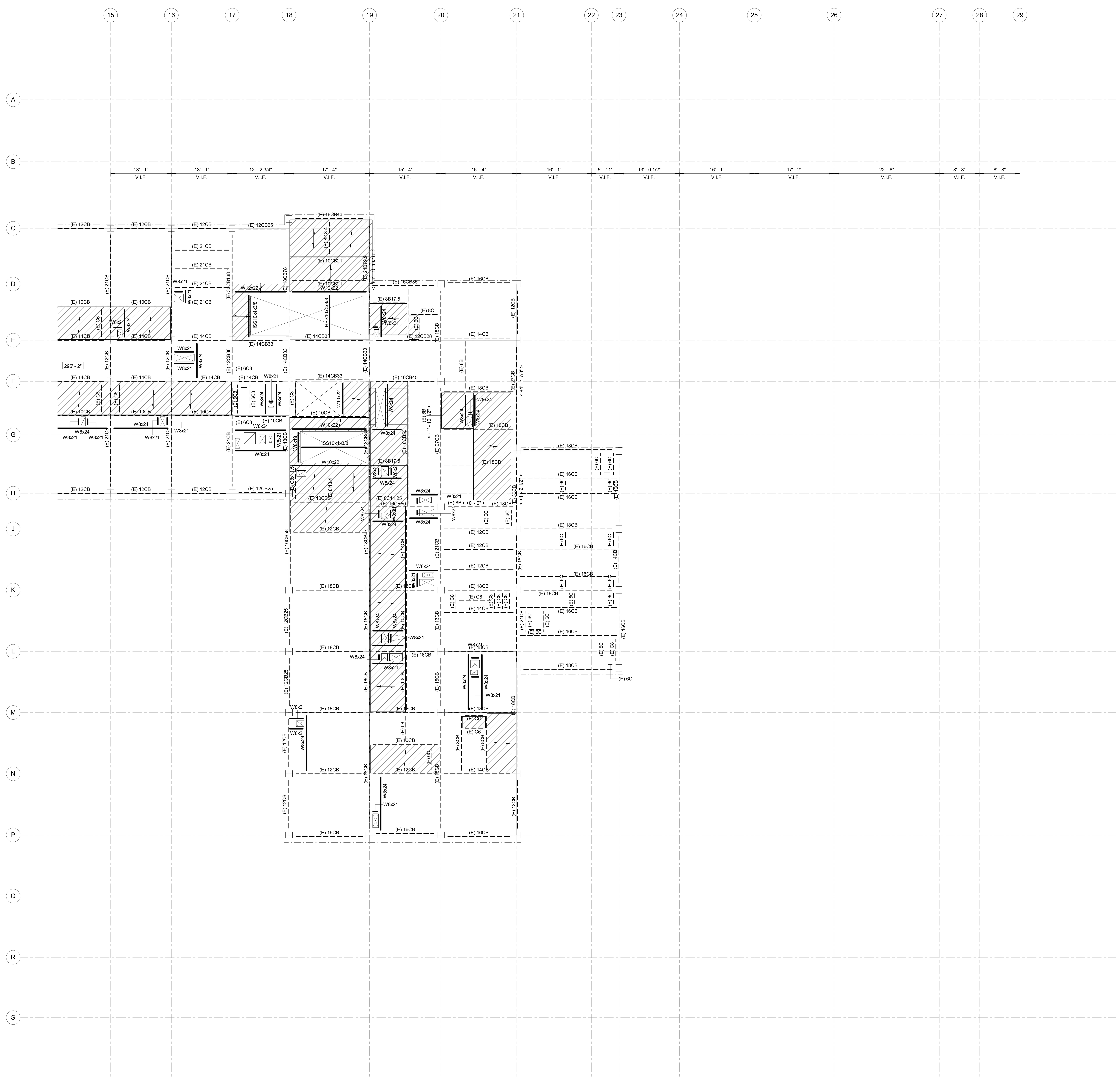

1 S-150 LEVEL 21 STEEL - PART B

1/8" = 1'-0"

SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
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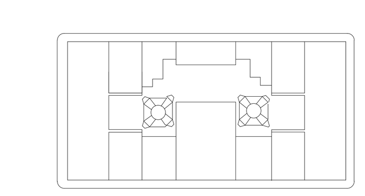

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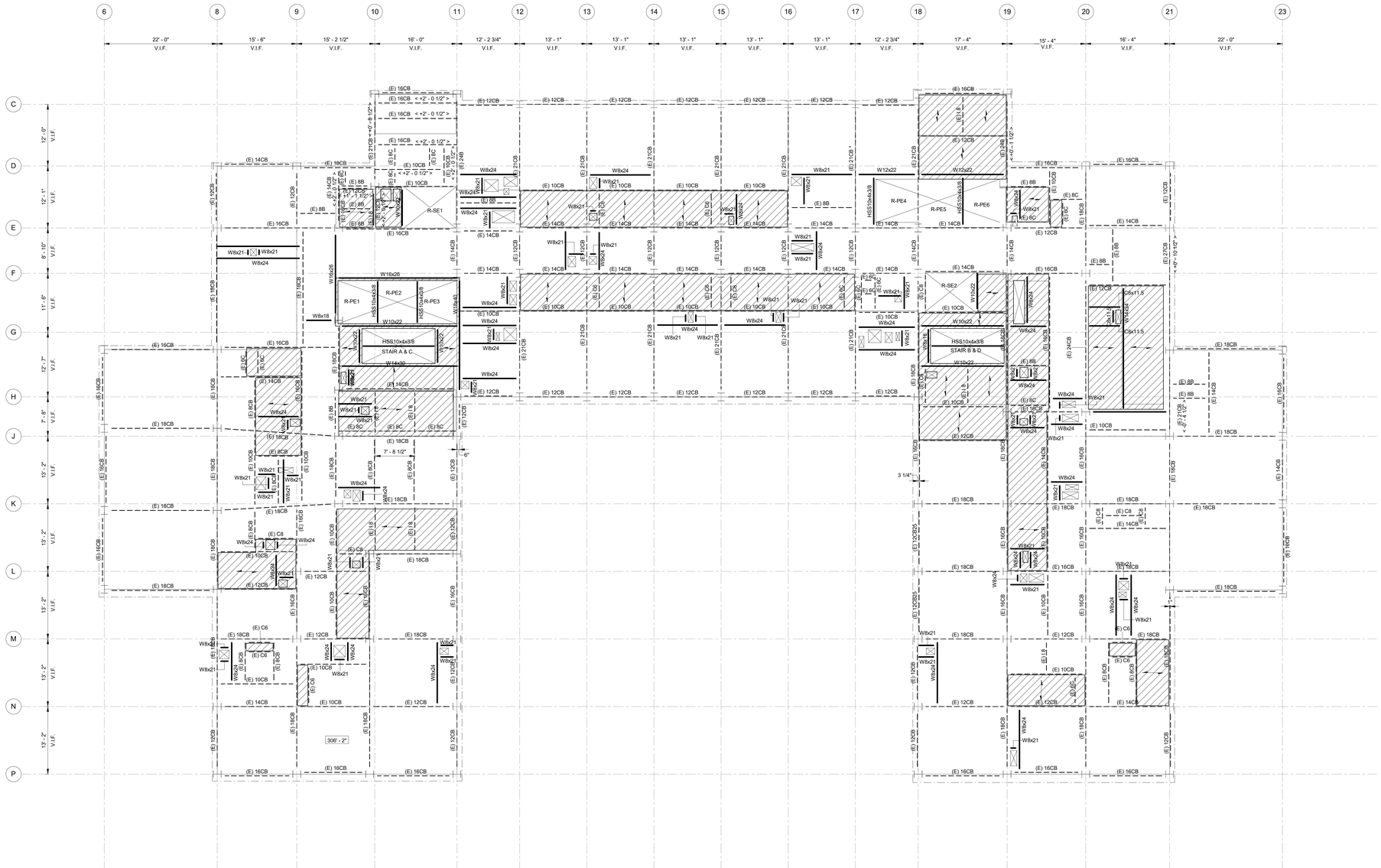

1 S-151 LEVEL 22 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 306'-1 7/8" (304'-6" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
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6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION NOT SHOWN ON PLAN
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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LEVEL 22 FRAMING PLAN

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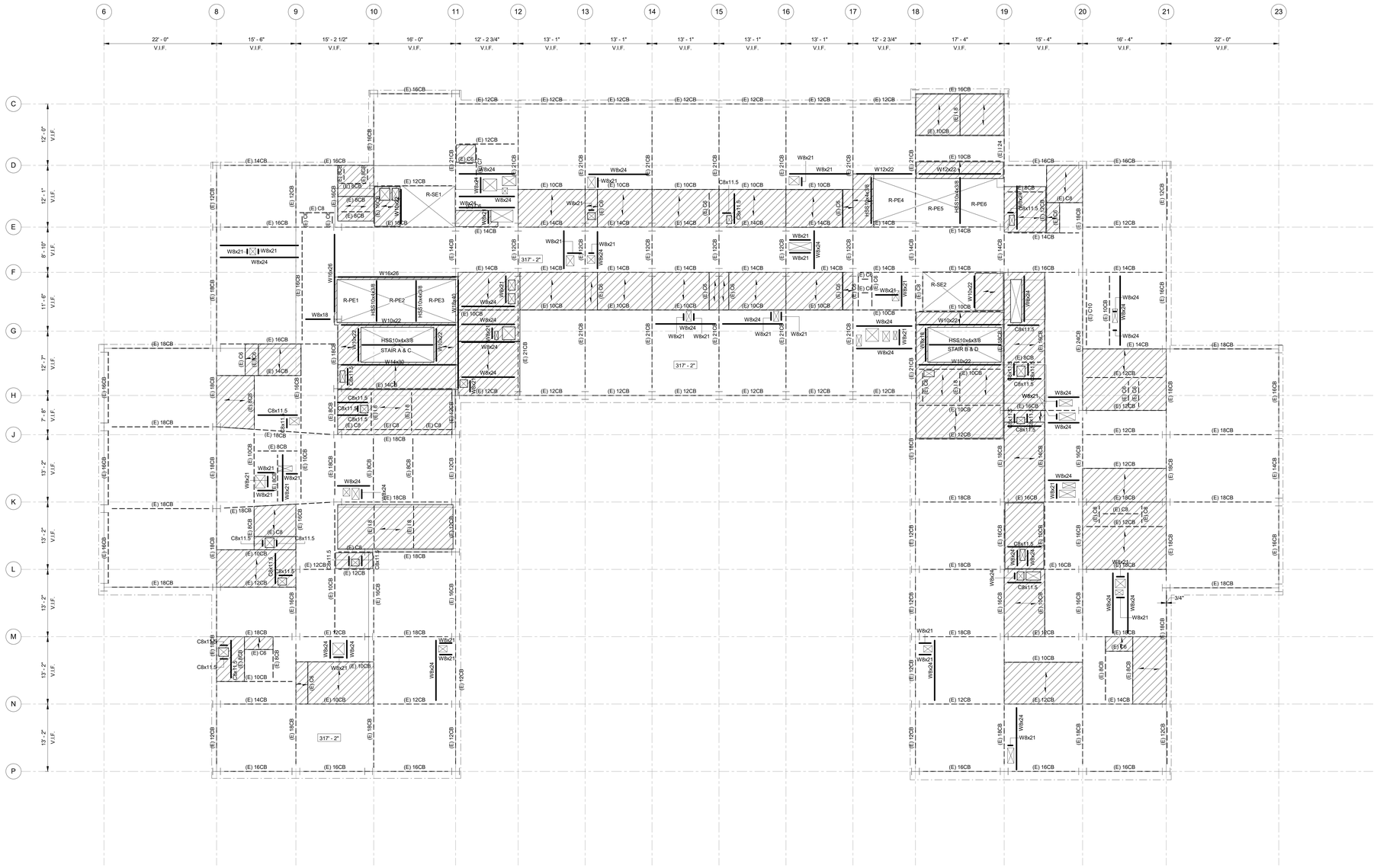

1 S-152 LEVEL 23 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 317'-1 7/8" (315'-6" ON EXISTING DRAWINGS)

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LEVEL 23 FRAMING PLAN

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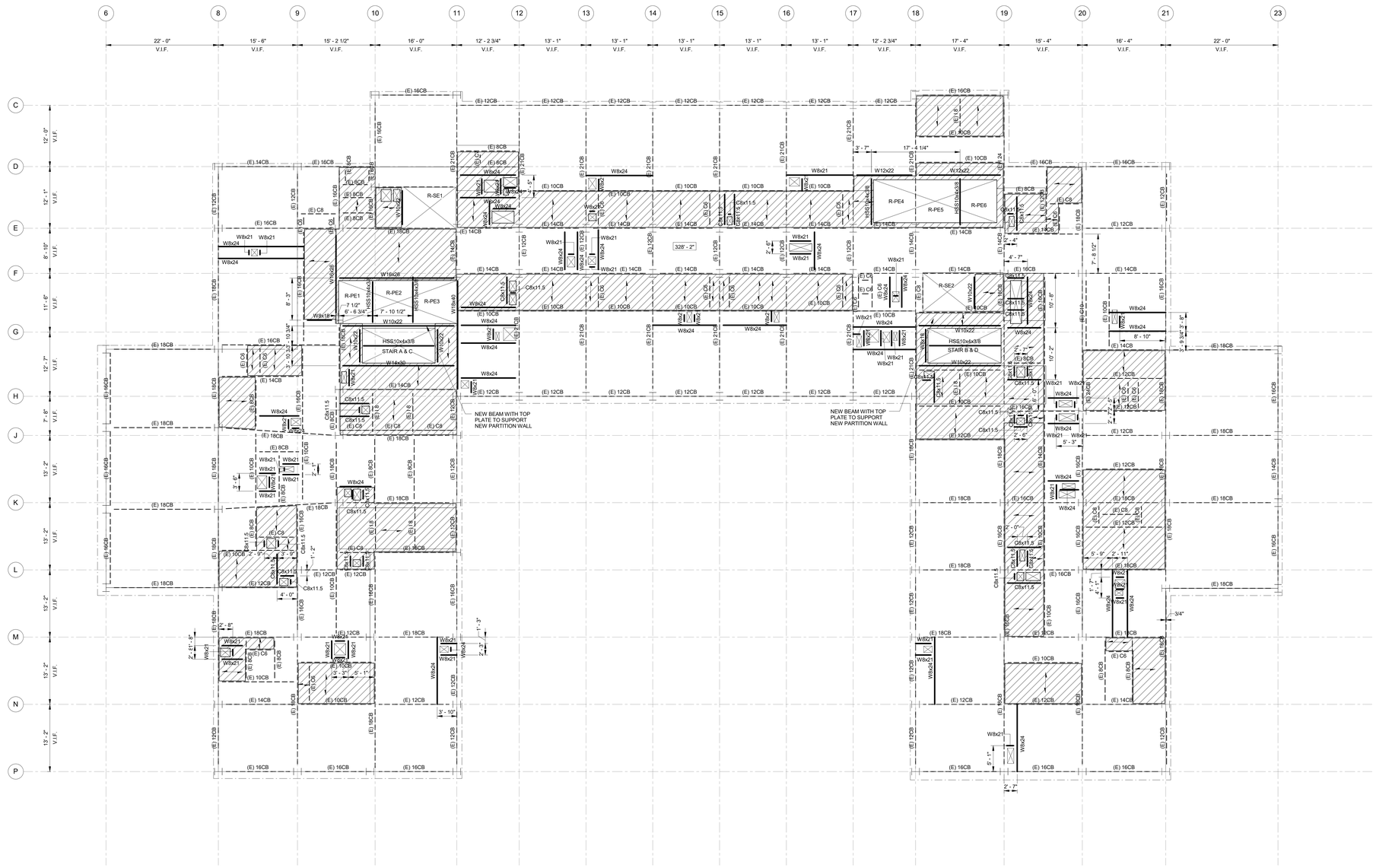

1 S-153 LEVEL 24 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 328'-1 7/8" (326'-6" ON EXISTING DRAWINGS)

NOTES

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SCOPE NOTES:

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LEVEL 24 FRAMING PLAN

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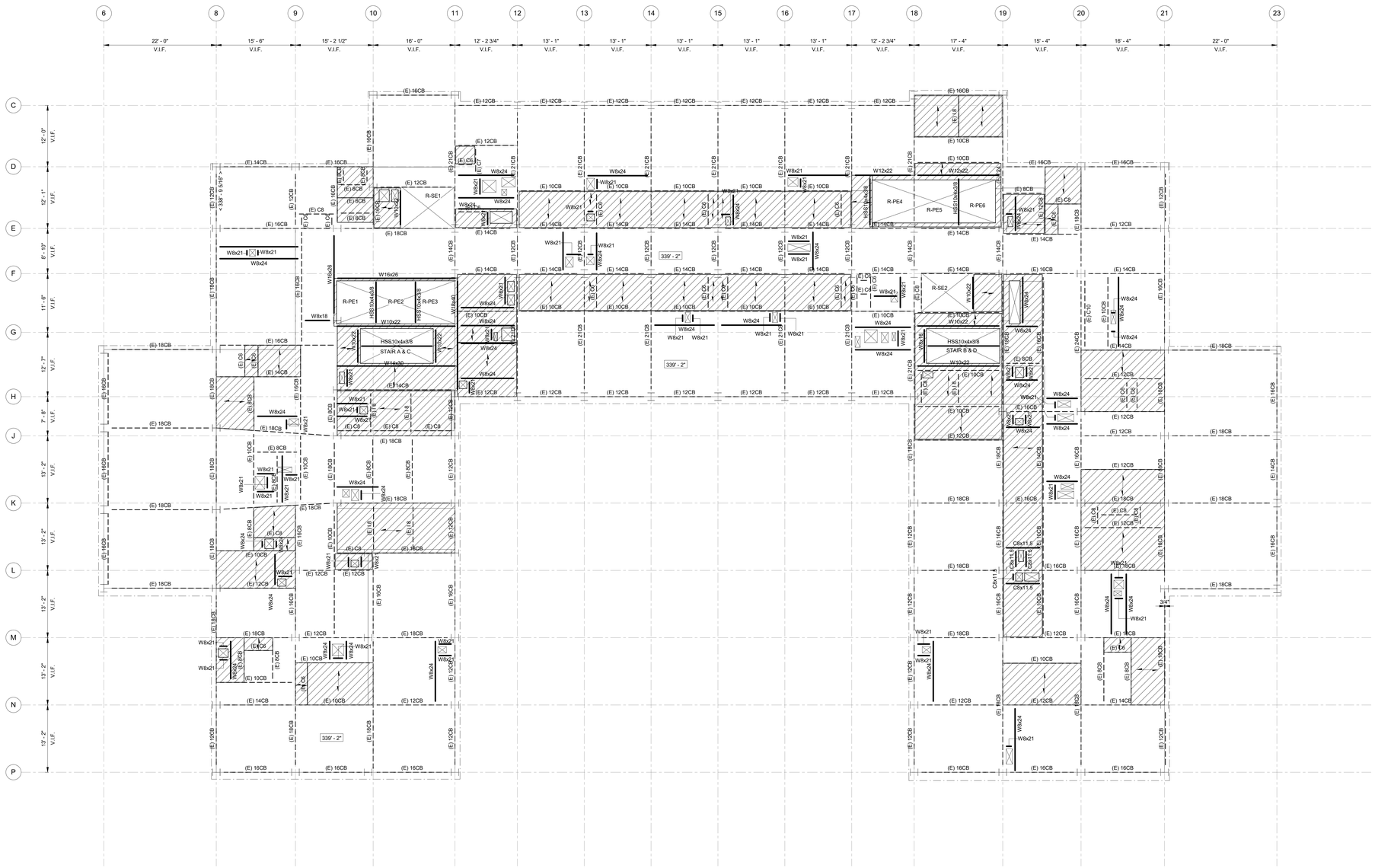

1 S-154 LEVEL 25 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 339'-1 7/8" (337'-6" ON EXISTING DRAWINGS)

NOTES

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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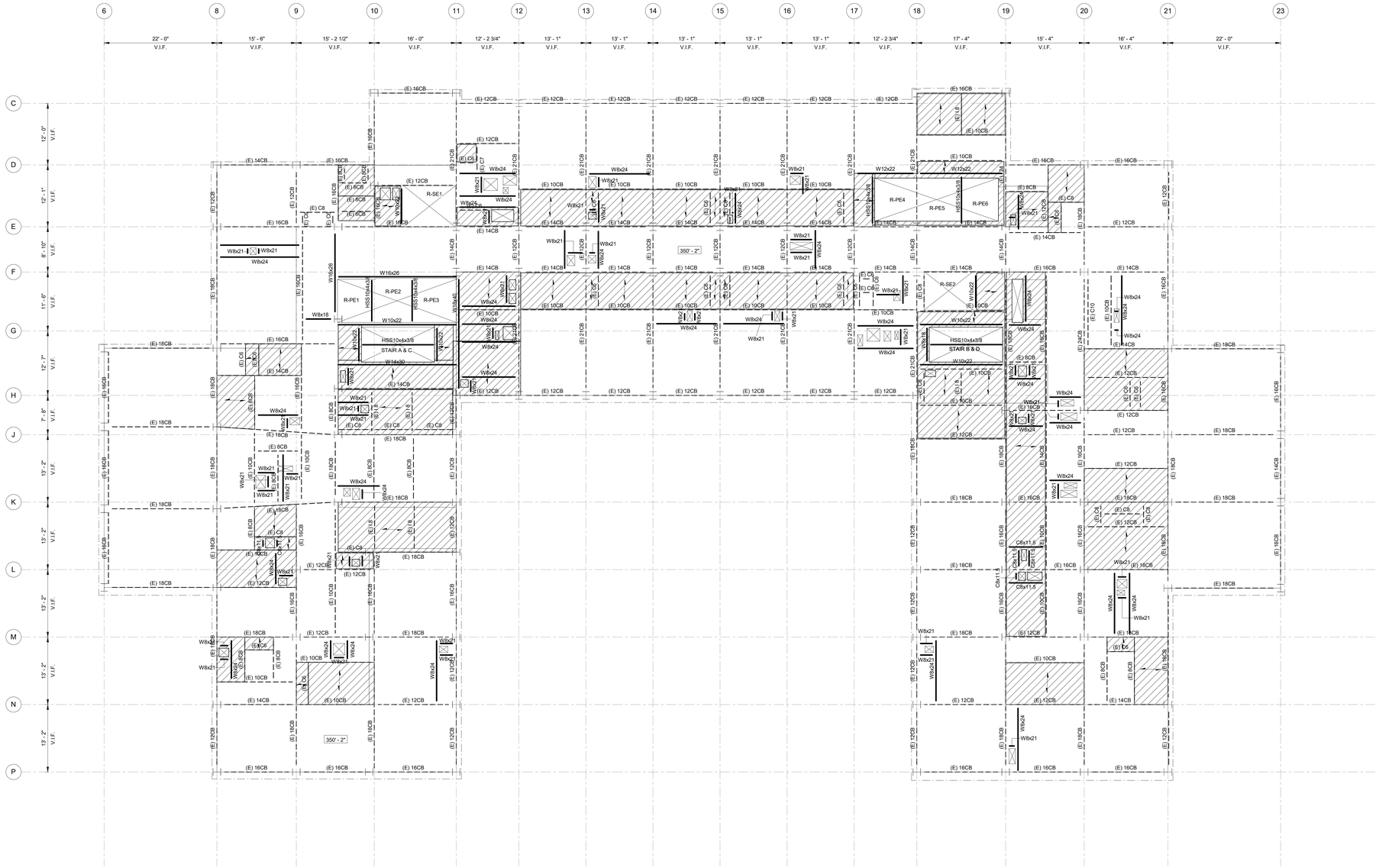

1 S-155 LEVEL 26 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 350'-1 7/8" (348'-6" ON EXISTING DRAWINGS)

NOTES

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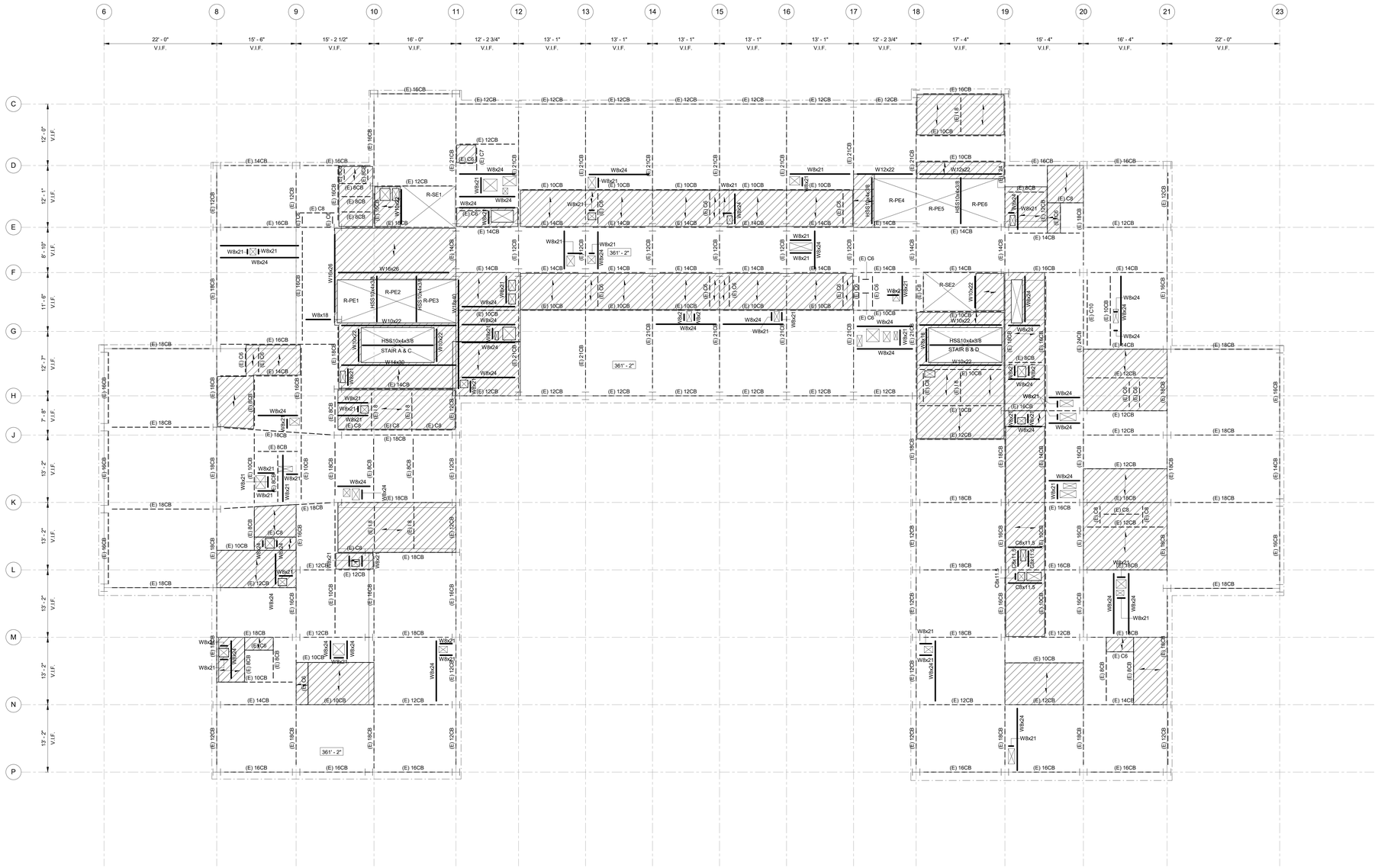

1 S-156 LEVEL 27 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 361'-1 7/8" (359'-6" ON EXISTING DRAWINGS)

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

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LEVEL 27 FRAMING PLAN

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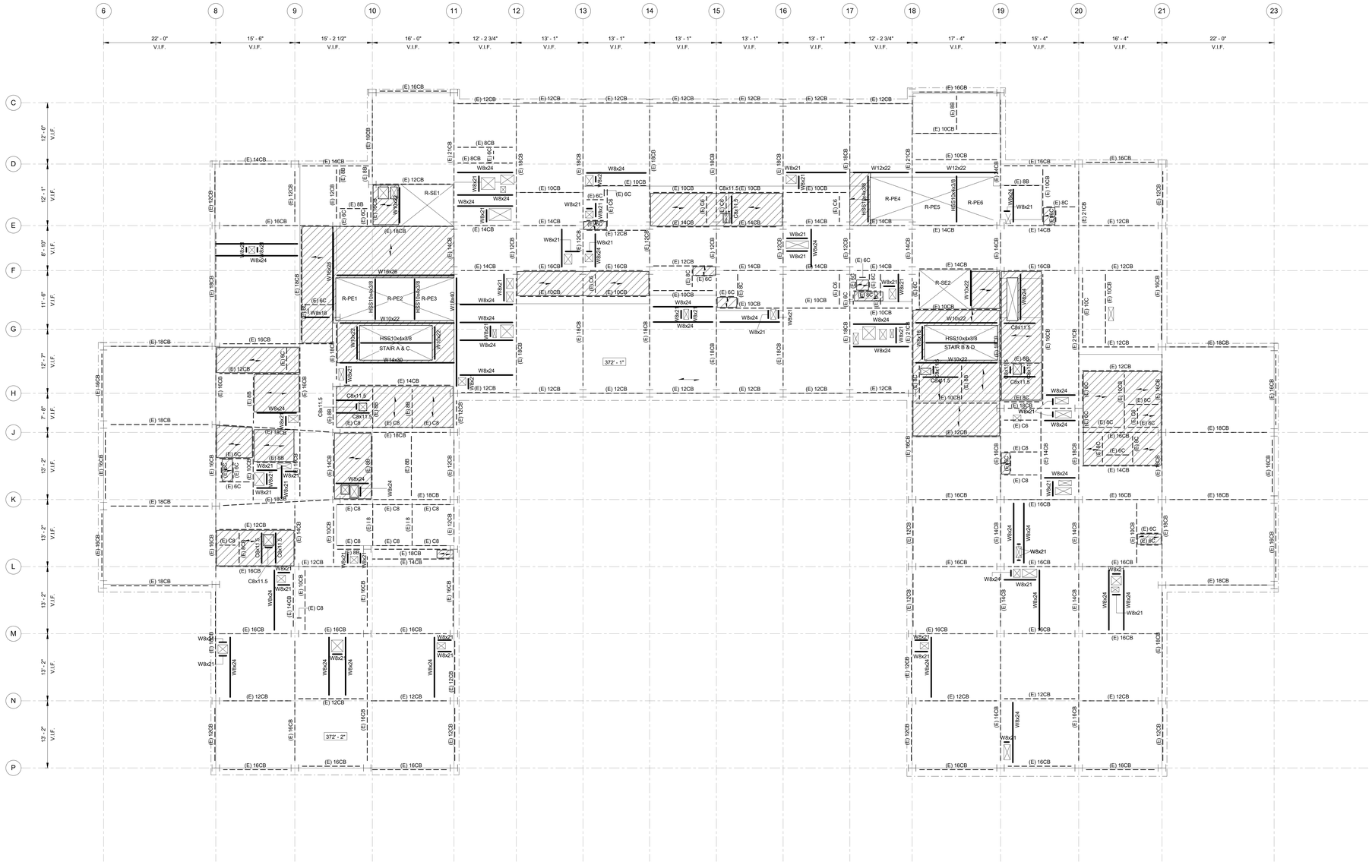

1 / S-157 LEVEL 28 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 372'-1 7/8" (370'-6" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
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6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION NOT SHOWN ON PLAN
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.

SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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LEVEL 28 FRAMING PLAN

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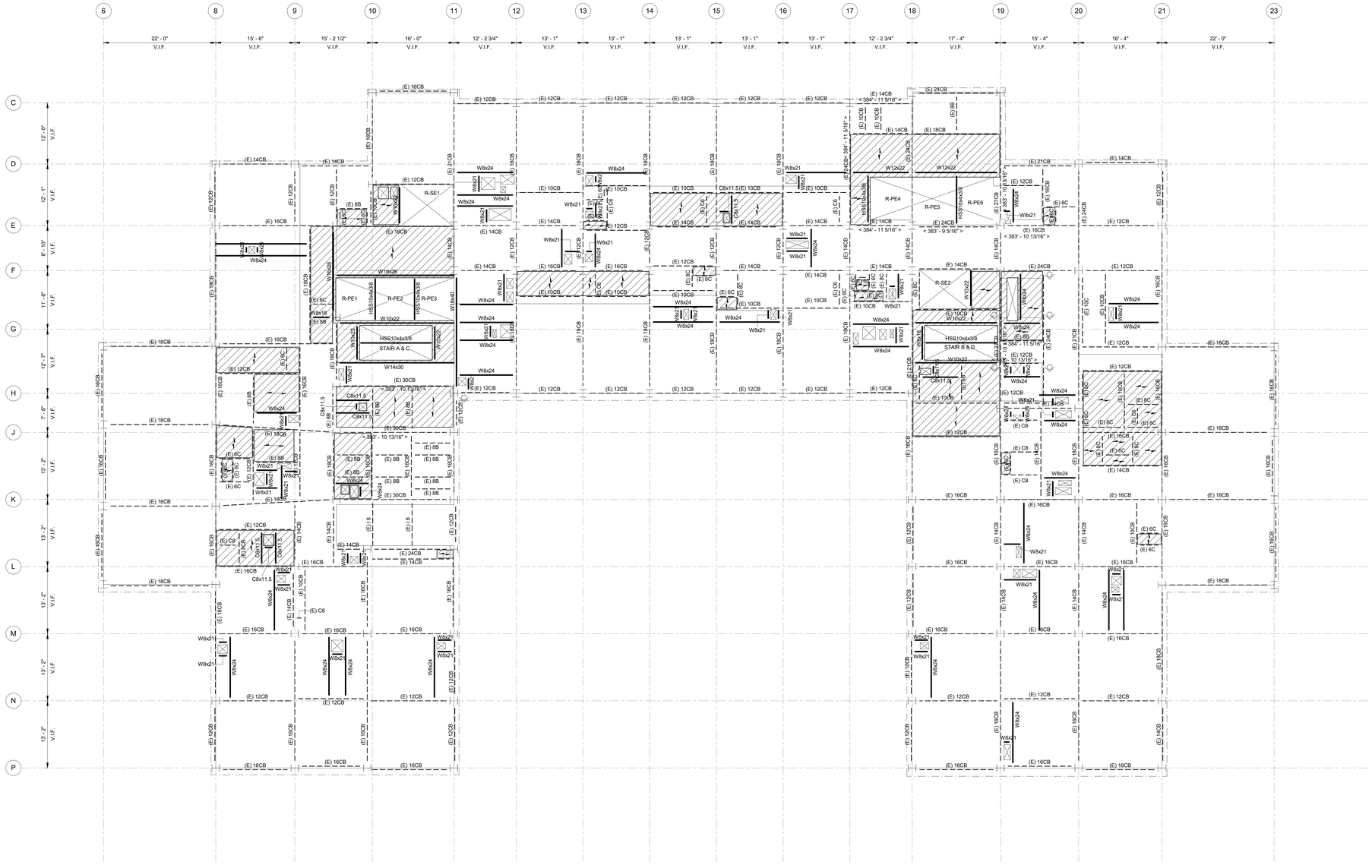

1 S-158 LEVEL 29 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 384'-1 7/8" (382'-6" ON EXISTING DRAWINGS)

NOTES

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SCOPE NOTES:

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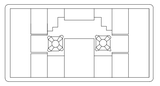

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LEVEL 29 FRAMING PLAN

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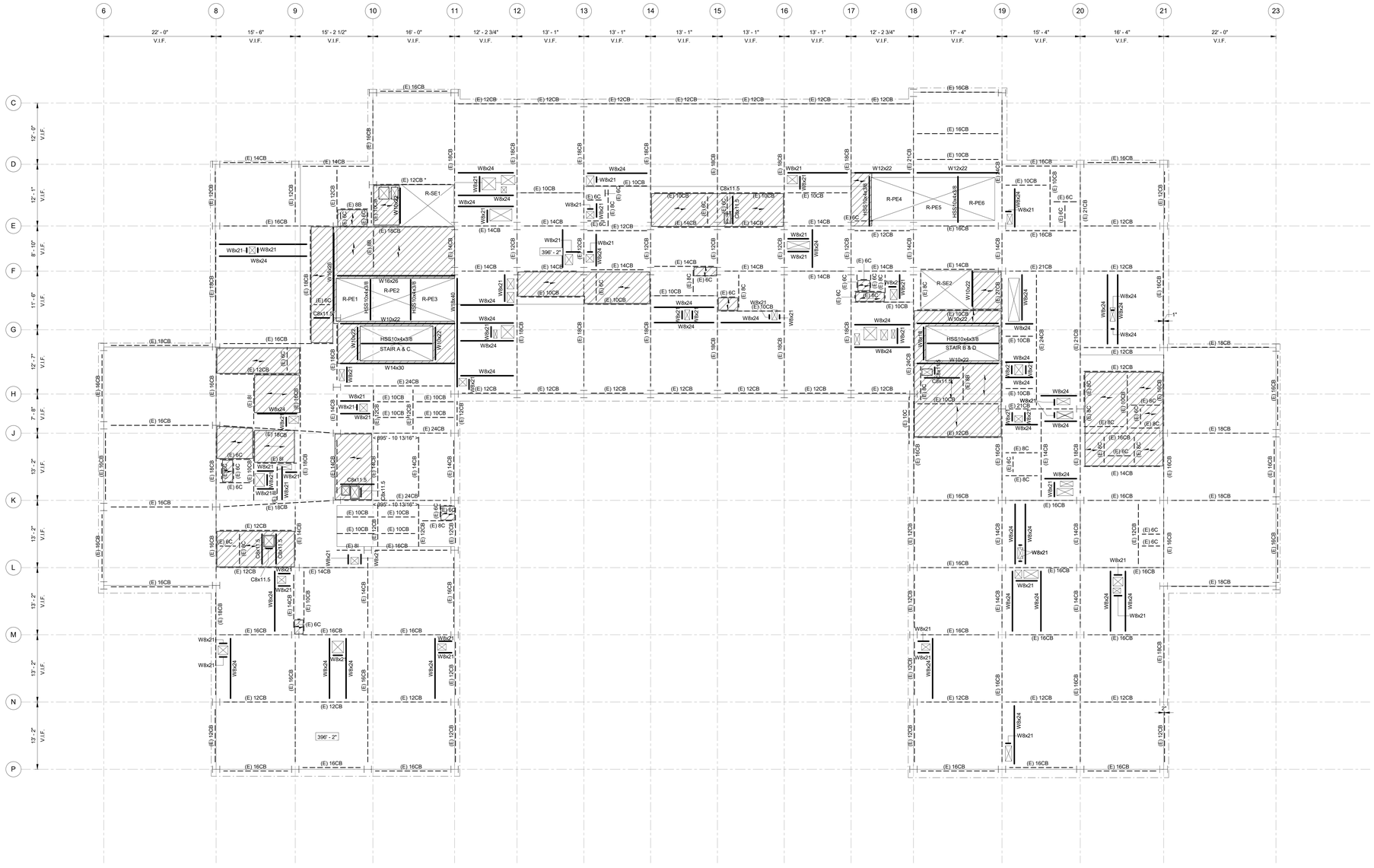

1 / S-159 LEVEL 30 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 396'-1 7/8" (394'-6" ON EXISTING DRAWINGS)

NOTES

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SCOPE NOTES:

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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SECURITY CONSULTANT

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LEVEL 30 FRAMING PLAN

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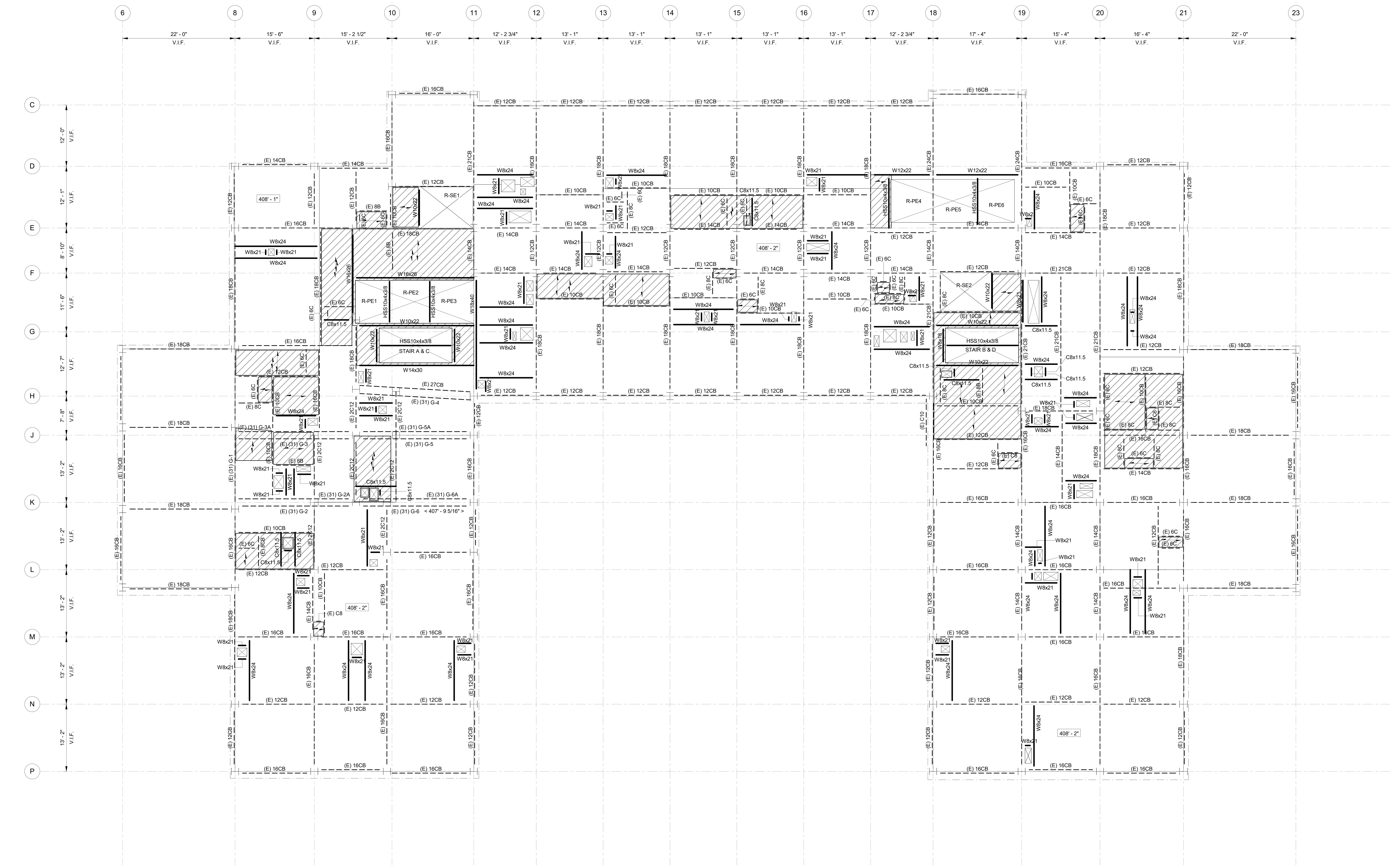

LEVEL 31 STEEL - TOWER

1 / S-160

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 408'-1 7/8" (406'-6" ON EXISTING DRAWINGS)

NOTES

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LOGISTICS CONSULTANT

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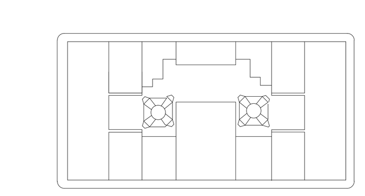

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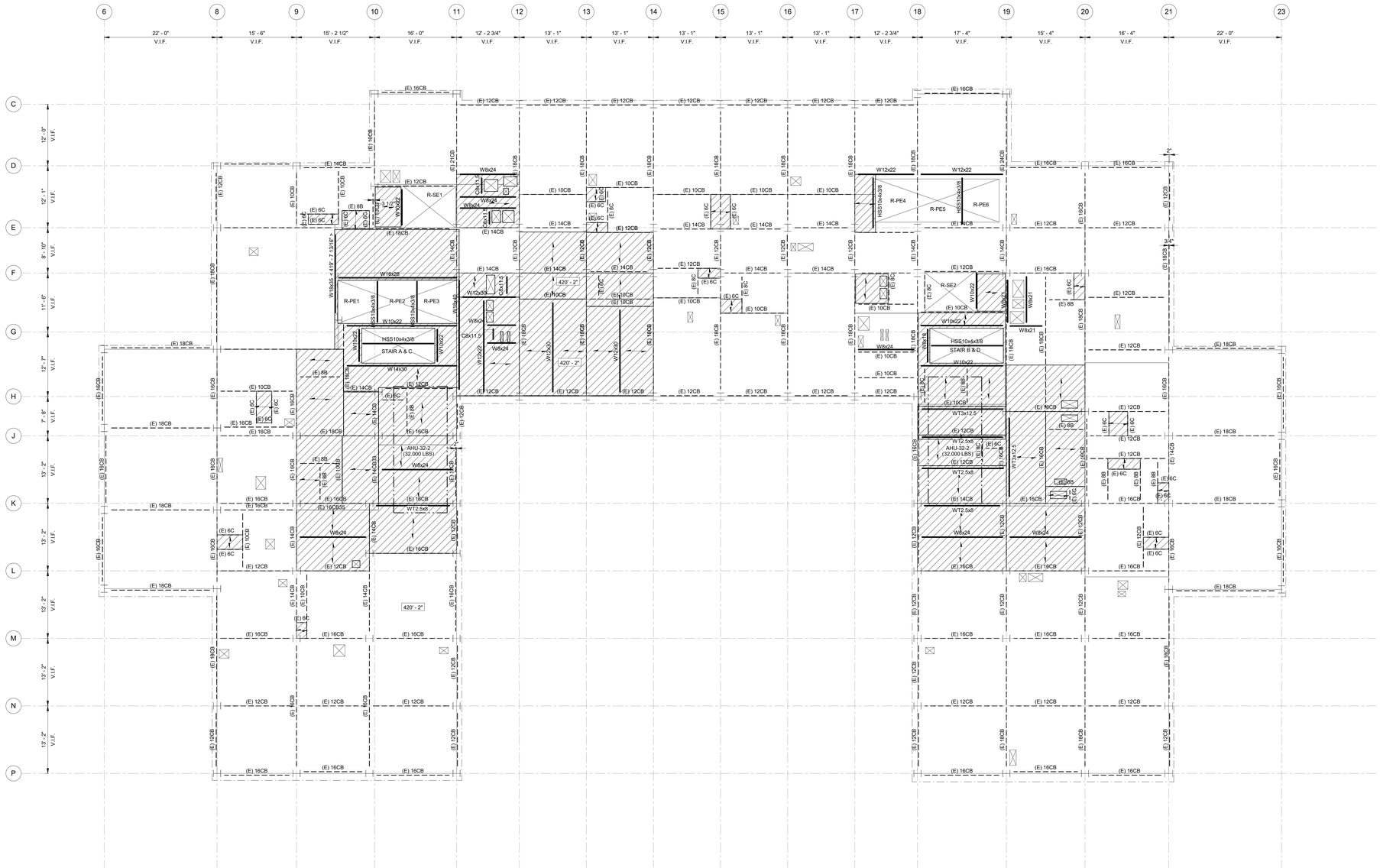

1 / S-161 LEVEL 32 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 420'-1 7/8" (418'-6" ON EXISTING DRAWINGS)

NOTES

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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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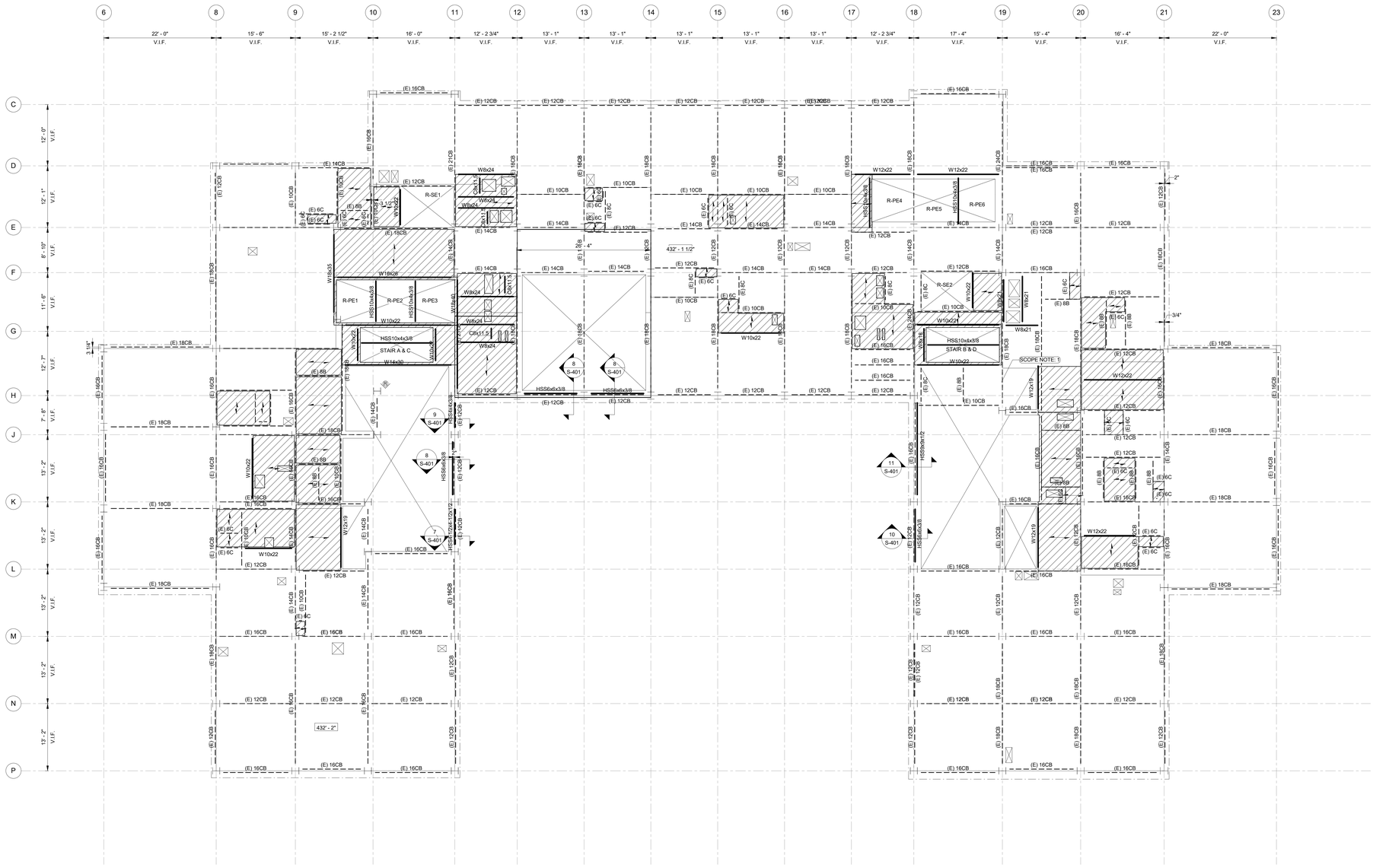

1 / S-162 LEVEL 33 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 432'-1 7/8" (430'-6" ON EXISTING DRAWINGS)

NOTES

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No. 081617

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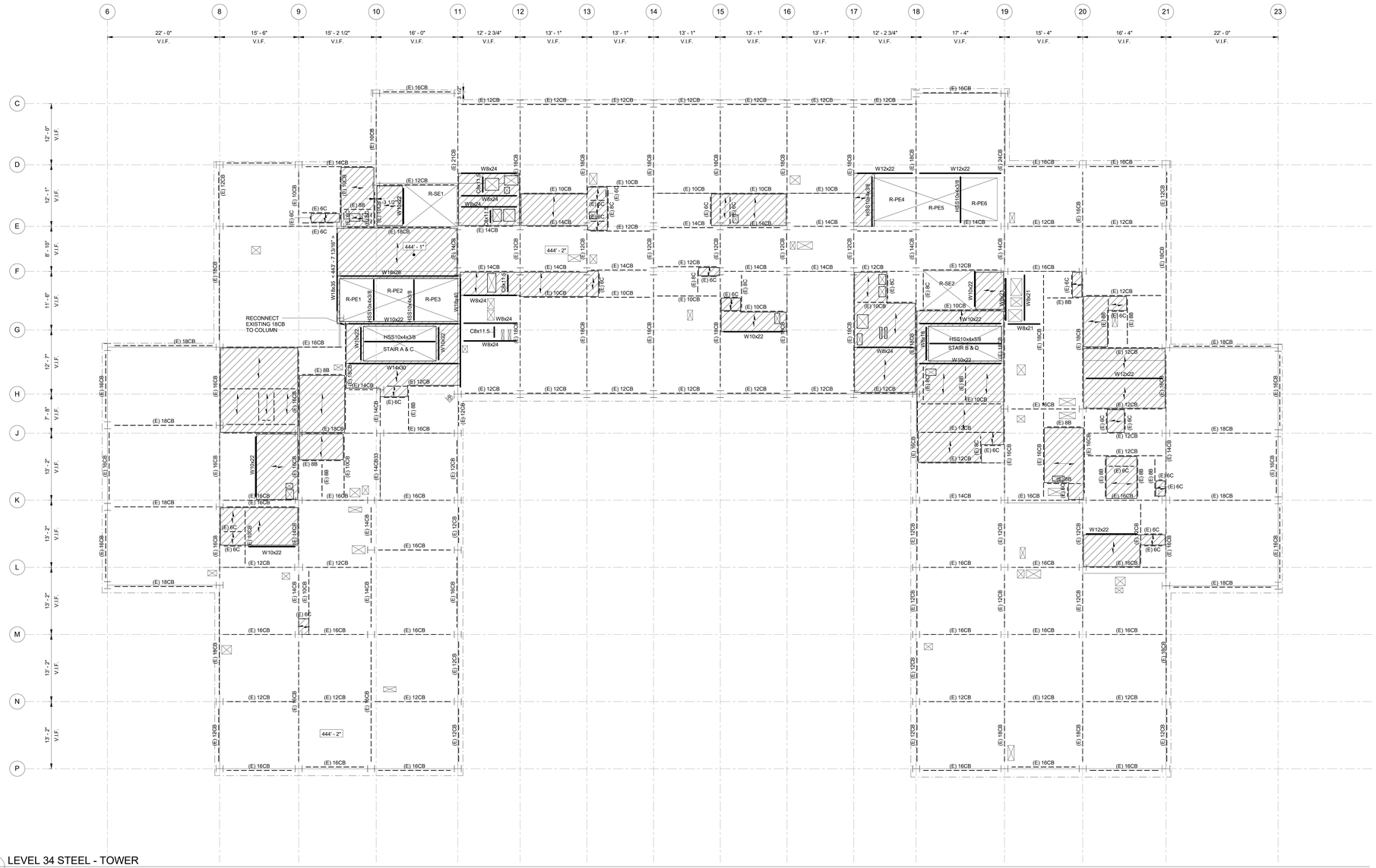

1 S-163 LEVEL 34 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 444'-1 7/8" (442'-6" ON EXISTING DRAWINGS)

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7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.

SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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Date: 07/14/2017

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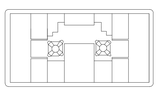

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NO.	DATE	DESCRIPTION
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LEVEL 34 FRAMING PLAN

B-SCAN - DRAWING NUMBER

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34 OF 87

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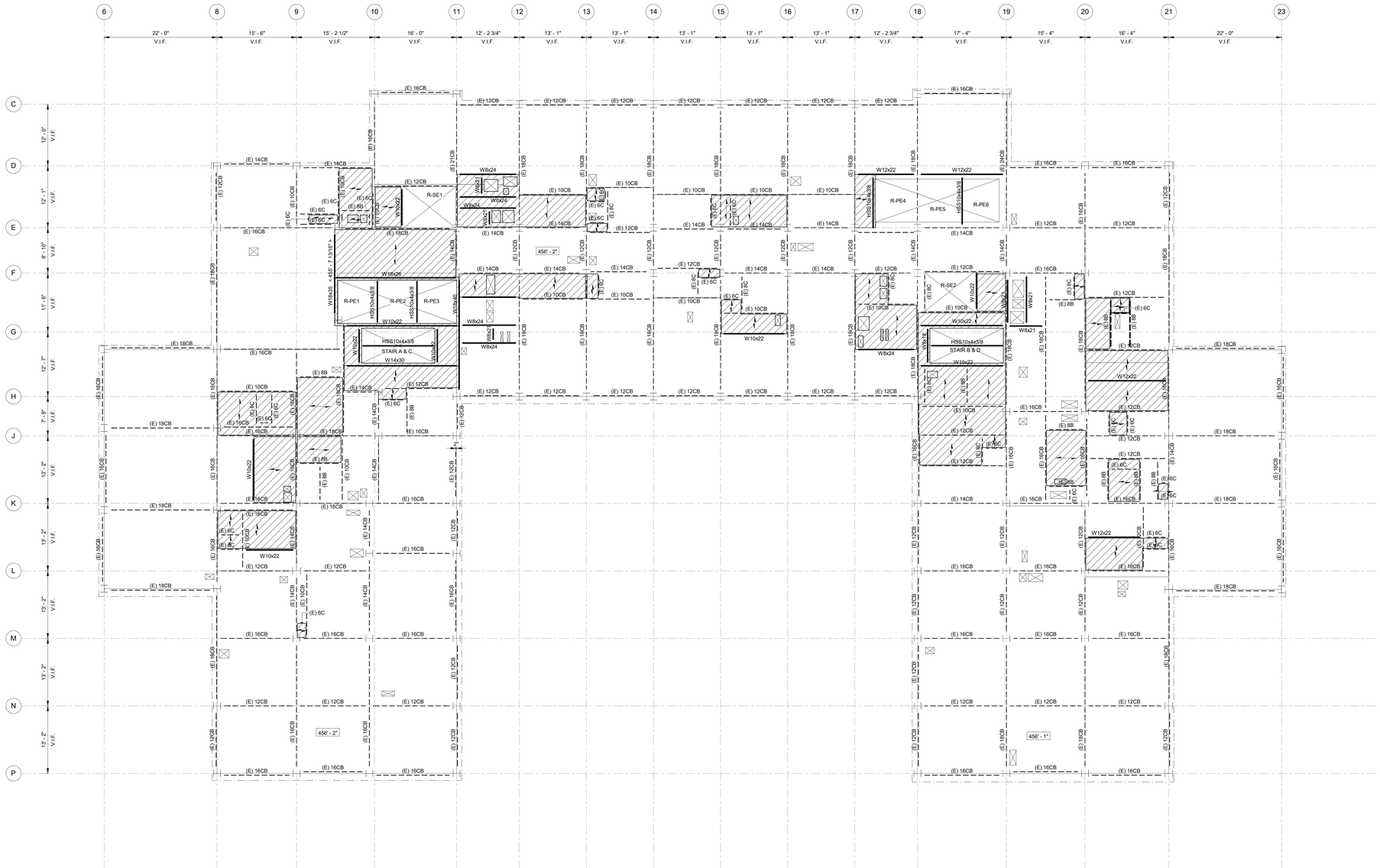

1 / S-164 LEVEL 35 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE456'-1 7/8" (454'-6" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
3. ALL ELEVATIONS NOTED ARE RELATIVE TO NAVD88. REFER TO ARCHITECTURAL DRAWINGS FOR SURVEY ORIGIN
4. TOP OF EXISTING STEEL ELEVATION TO BE (-4 ½") BELOW TOP OF SLAB ELEVATION, TYP
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7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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Date: 07/14/2017

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LEVEL 35 FRAMING PLAN

B-SCAN - DRAWING NUMBER

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PAGE NUMBER

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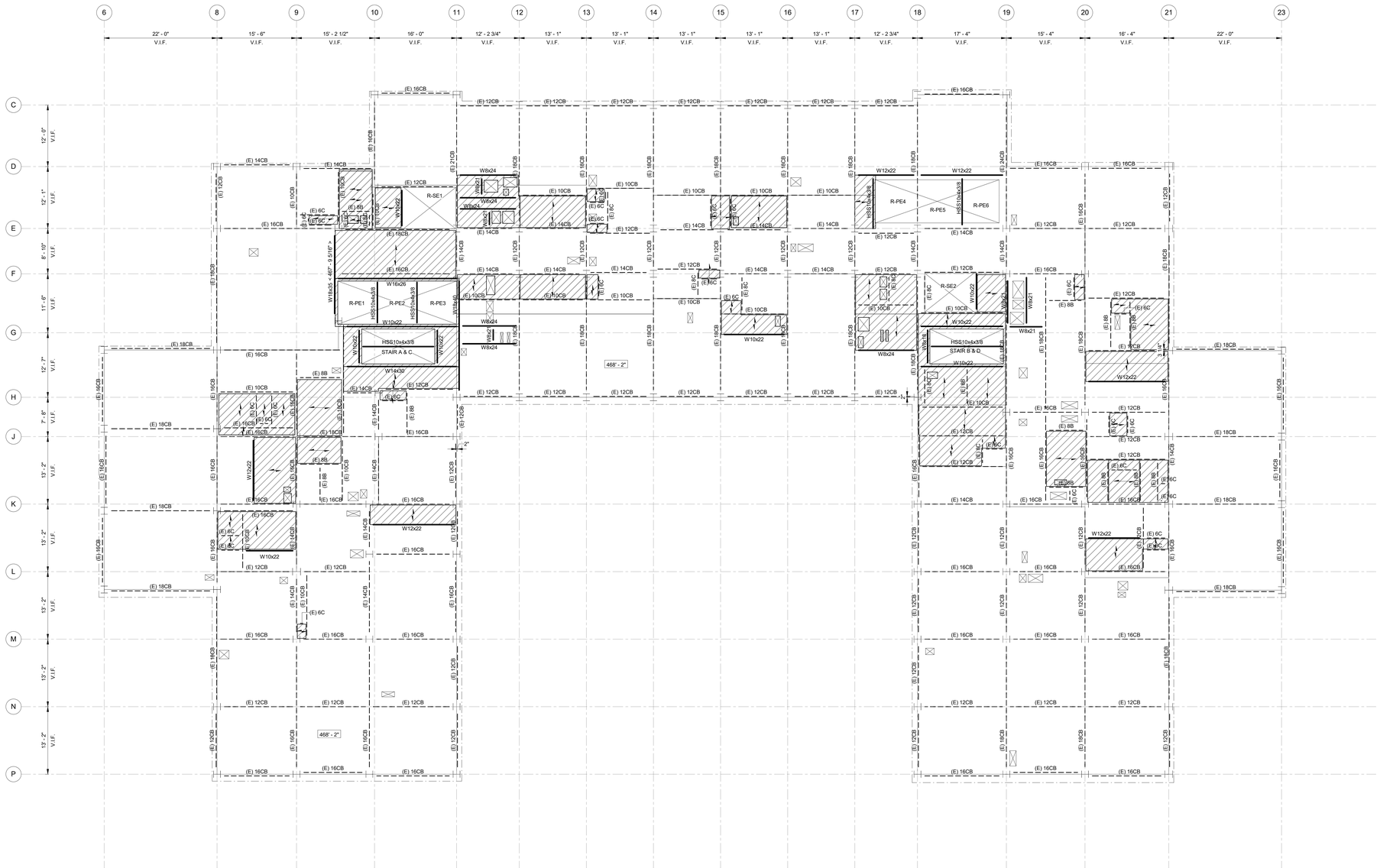

1 S-165 LEVEL 36 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 468'-1 7/8" (466'-6" ON EXISTING DRAWINGS)

NOTES

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SCOPE NOTES:

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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LEVEL 36 FRAMING PLAN

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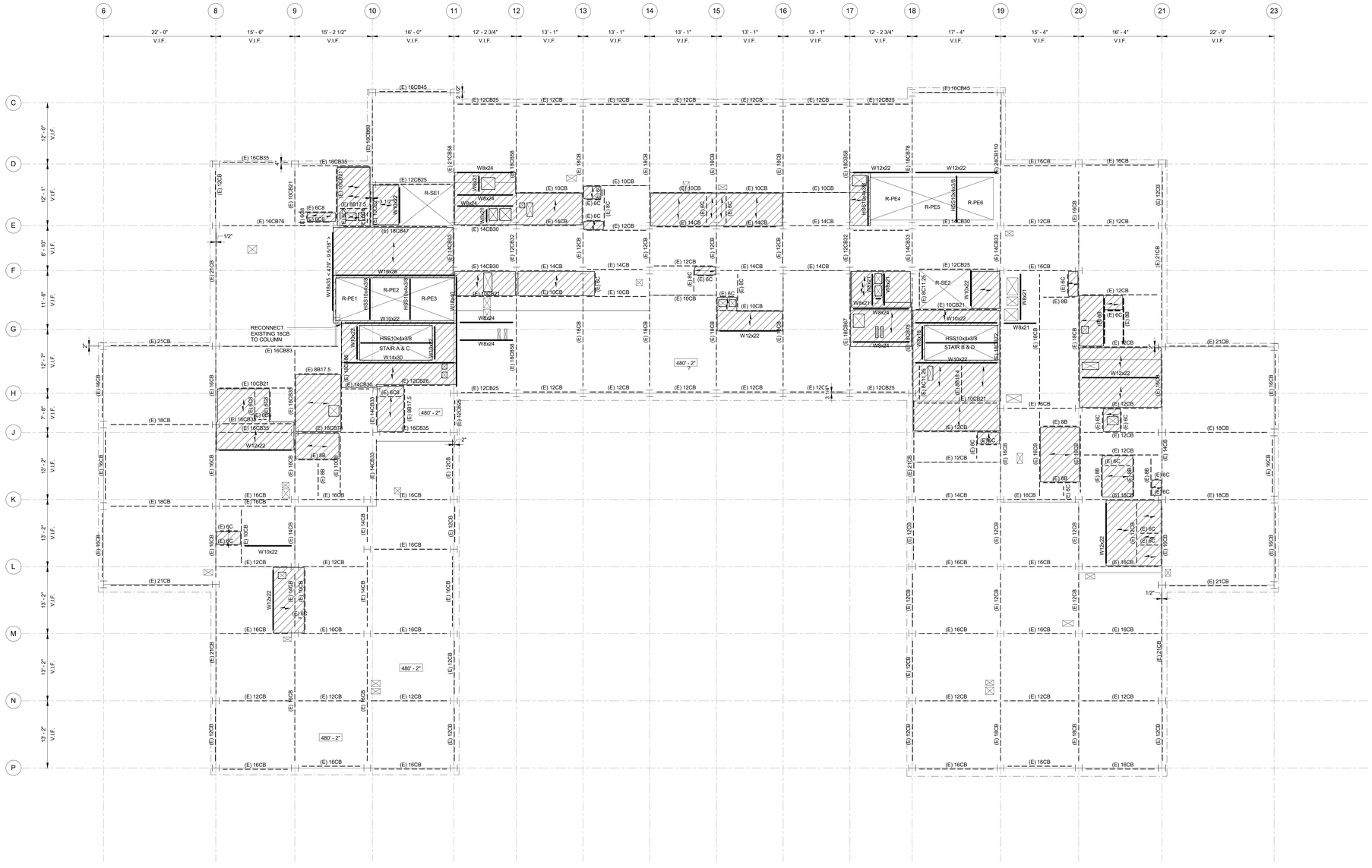

1 / S-166 LEVEL 37 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 480'-1 7/8" (478'-6" ON EXISTING DRAWINGS)

NOTES

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SCOPE NOTES:

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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SECURITY CONSULTANT

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LEVEL 37 FRAMING PLAN

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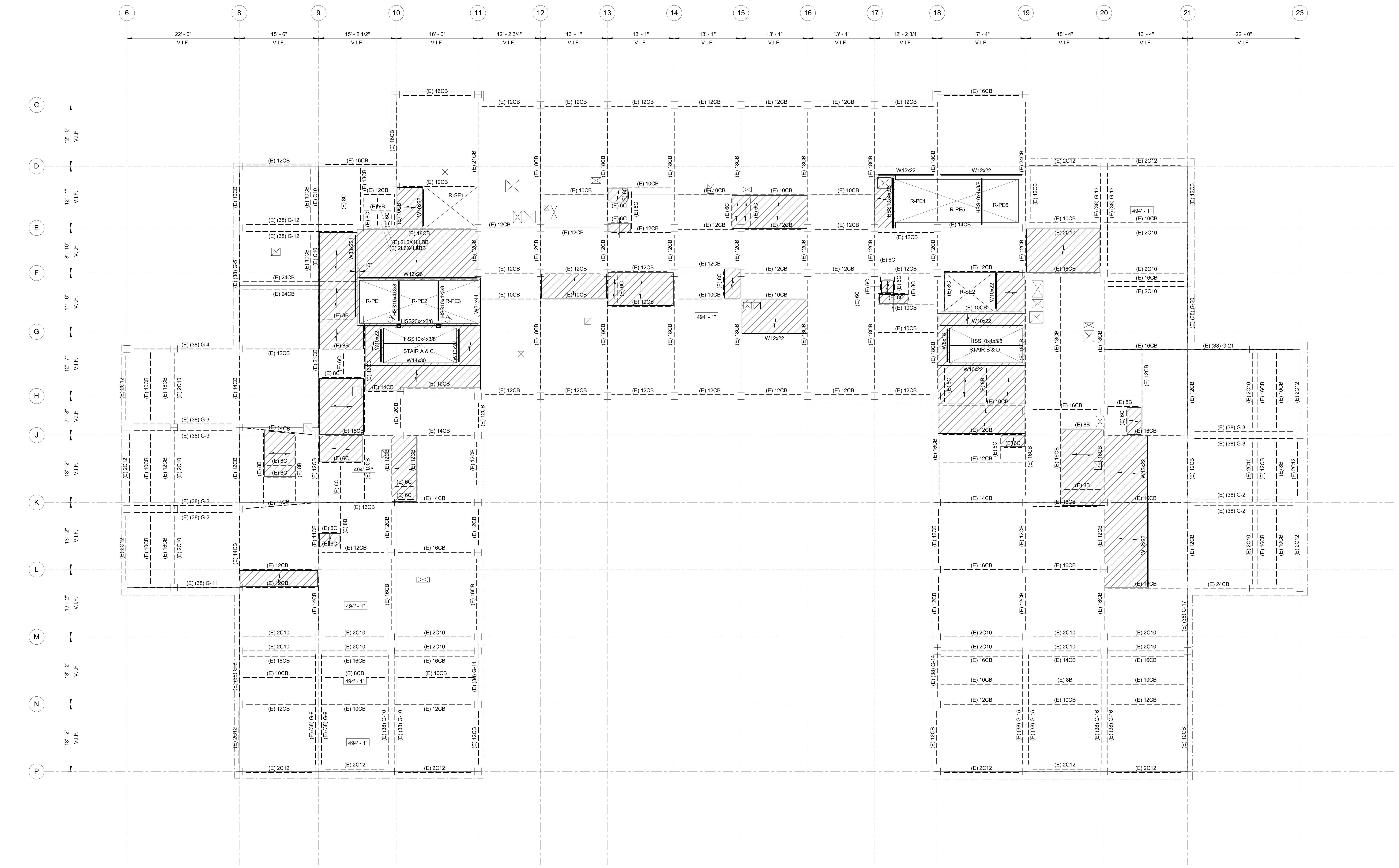

1 LEVEL 38 STEEL - TOWER
S-167

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 494'-1 7/8" (492'-6" ON EXISTING DRAWINGS)

NOTES

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SCOPE NOTES:

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2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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TRAFFIC, PARKING, AND LOADING

Philip Habib & Associates

EXTERIOR WALL CONSULTANT

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SECURITY CONSULTANT

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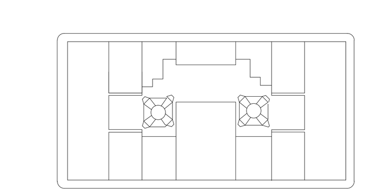

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LEVEL 38 FRAMING PLAN

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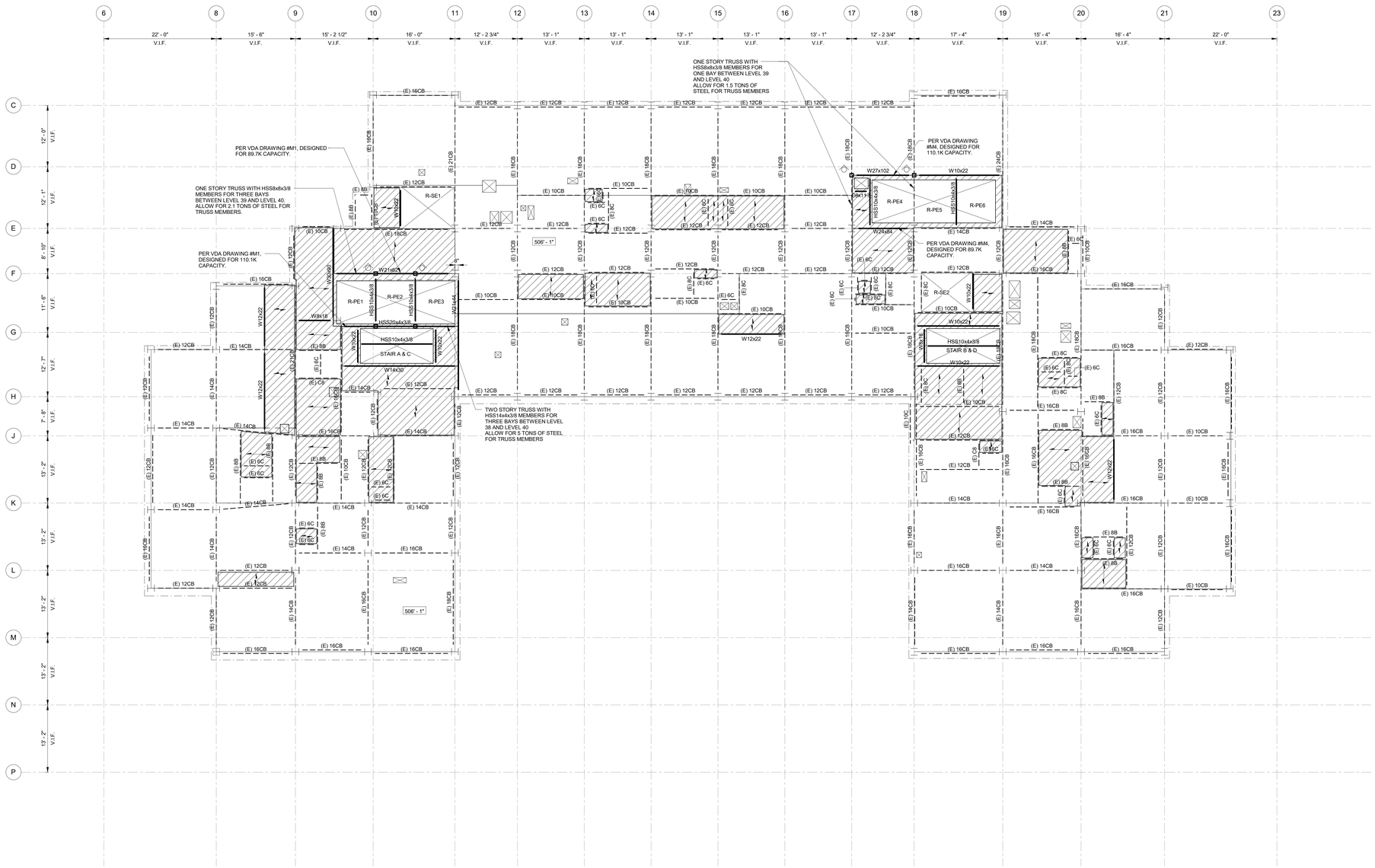

1 LEVEL 39 STEEL - TOWER
S-168

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 506'-1 7/8" (504'-6" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
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SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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LEVEL 39 FRAMING PLAN

B-SCAN - DRAWING NUMBER

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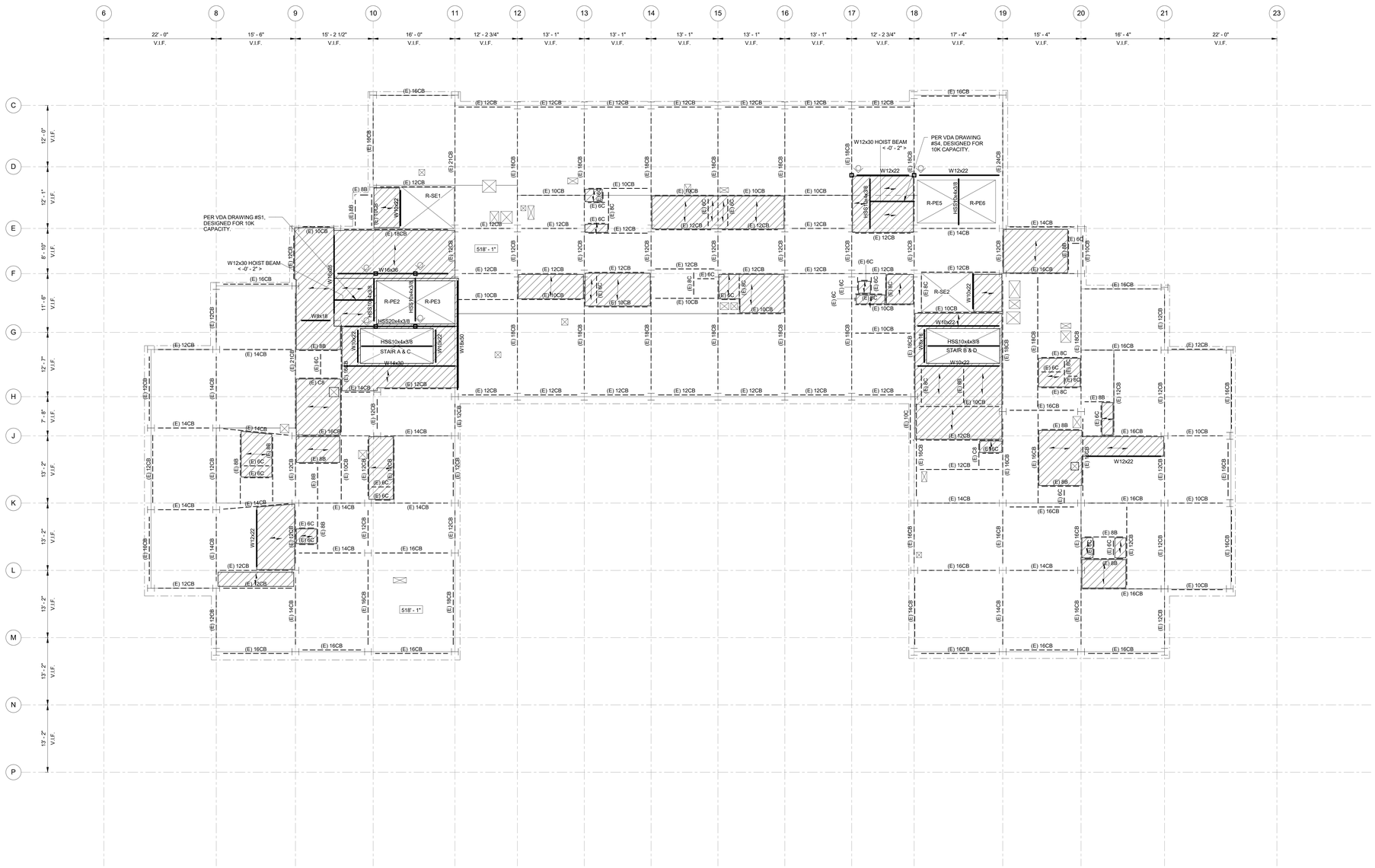

1 S-169 LEVEL 40 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 518'-1 7/8" (516'-6" ON EXISTING DRAWINGS)

SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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STATE OF NEW YORK
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LEVEL 40 FRAMING PLAN

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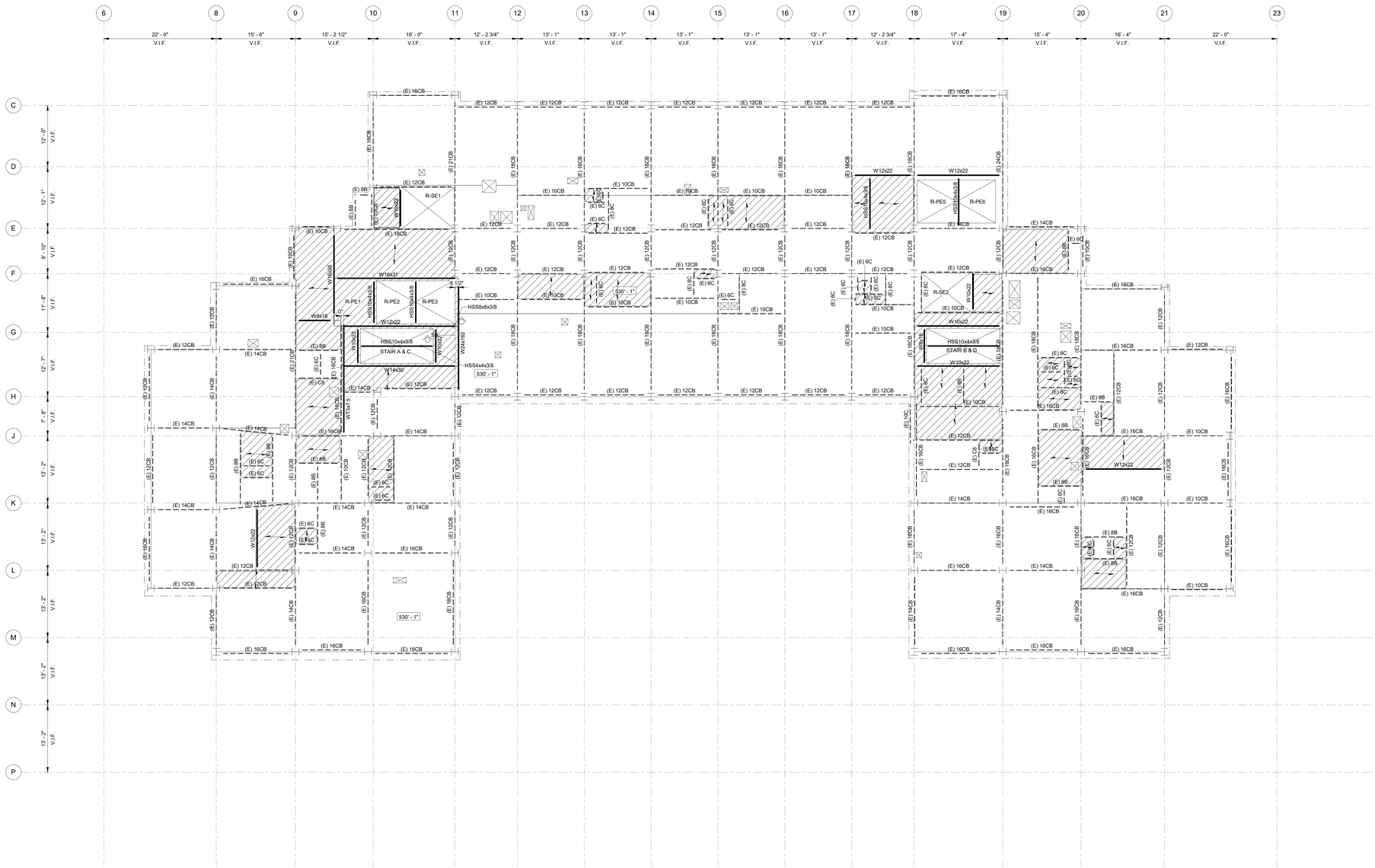

1 / S-170

LEVEL 41 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 530'-1 7/8" (528'-6" ON EXISTING DRAWINGS)

NOTES

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11. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING SLAG BLOCK SLAB ZONES ALLOWED, BUT MUST BE REVIEWED BY EOR. SEE TYPICAL DETAILS S-500 SERIES FOR ANCHORAGE DETAILS AND SUGGESTED PULL-TESTING REGIMEN FOR BOTH DRAPED MESH AND SLAG BLOCK SLABS.

SCOPE NOTES:

1. ANY OPENING WITHOUT STEEL SHOWN SHOULD ALLOW FOR 0.25 TONS OF STEEL FOR REINFORCING.
2. PLUMBING CHASES HAVE NOT BEEN COORDINATED FOR LEVELS 13-43.

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Silman

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Stantec Inc.

VERTICAL TRANSPORTATION

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Under Directive 3 of 1975
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STATE OF NEW YORK
ALEXANDER C. ELLIOTT
100-091617
LICENSED PROFESSIONAL ENGINEER

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DRAWING TITLE

LEVEL 41 FRAMING PLAN

B-SCAN - DRAWING NUMBER

S-170.00

PAGE NUMBER

41 OF 87

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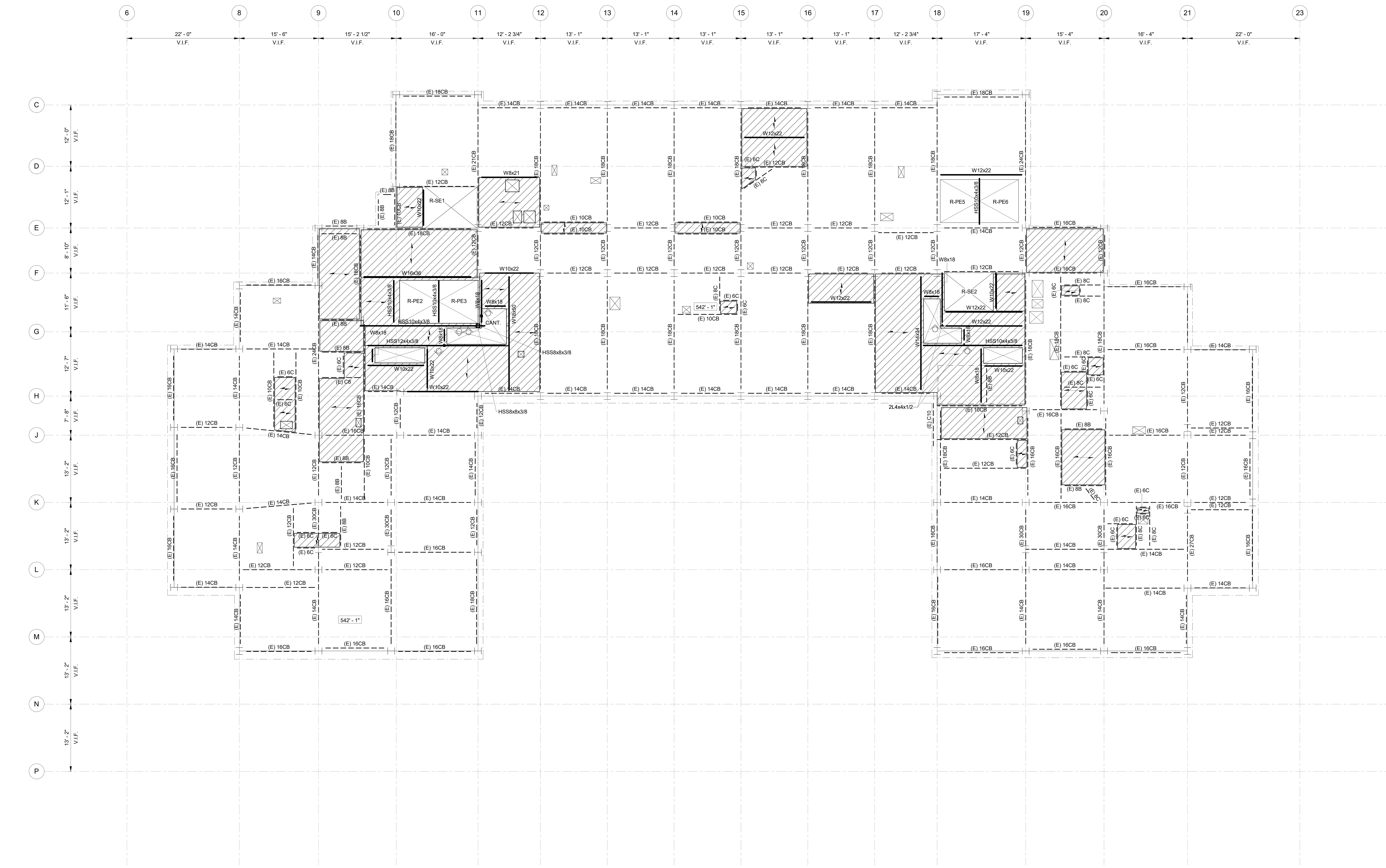

1 S-171 LEVEL 42 STEEL - TOWER

1/8" = 1'-0"

TOP OF SLAB ELEVATION TO BE 542'-1 7/8" (540'-6" ON EXISTING DRAWINGS)

NOTES

1. ALL EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD OBSERVATIONS AND VARIOUS EXISTING DRAWINGS MADE AVAILABLE TO ENGINEER OF RECORD.
2. CONDITION OF EXISTING SLABS ARE BASED ON LIMITED FIELD OBSERVATIONS (12TH AND 24TH FLOORS), ASSUMPTIONS WITHIN SCOPE NOTES ARE BASED ON THOSE OBSERVATIONS
3. ALL ELEVATIONS NOTED ARE RELATIVE TO NAVD88. REFER TO ARCHITECTURAL DRAWINGS FOR SURVEY ORIGIN
4. TOP OF EXISTING STEEL ELEVATION TO BE (-4 ½") BELOW TOP OF SLAB ELEVATION, TYP
5. TOP OF NEW STEEL ELEVATION TO BE (-1") BELOW BOTTOM OF SLAB ELEVATION, TYP U.O.N ON PLAN
6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION NOT SHOWN ON PLAN
7. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNIT LOCATIONS
8. REFER TO S-500 SERIES DRAWINGS FOR TYPICAL DETAILS, INCLUDING SLAB REPAIR DETAILS
9. SEE S-002 FOR LEGEND
10. MECHANICAL, ELECTRICAL AND PLUMBING HANGERS FOR DUCTWORK AND PIPES TO BE SUSPENDED FROM EXISTING STEEL BEAMS ONLY IN ZONES OF DRAPE MESH SLAB. LIGHTWEIGHT CEILING AND LIGHTING HANGERS CAN BE SUSPENDED FROM DRAPED MESH SLABS, HOWEVER PULL TESTING OF ANCHORS FOR EACH SLAB TYPE IS REQUIRED TO IDENTIFY MAX HANGER LOADING.
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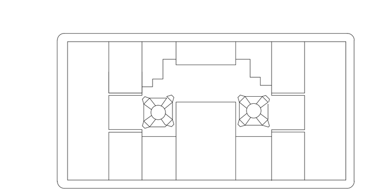

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LEVEL 42 FRAMING PLAN

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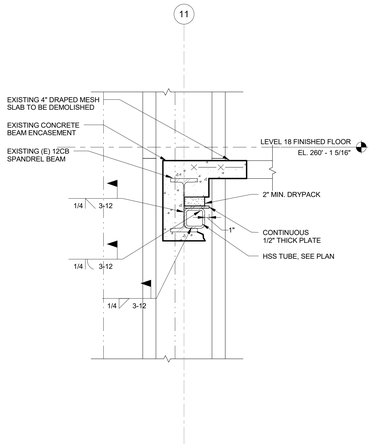
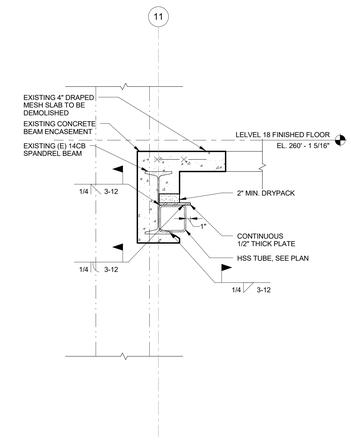


2 S-401 SECTION
1" = 1'-0"



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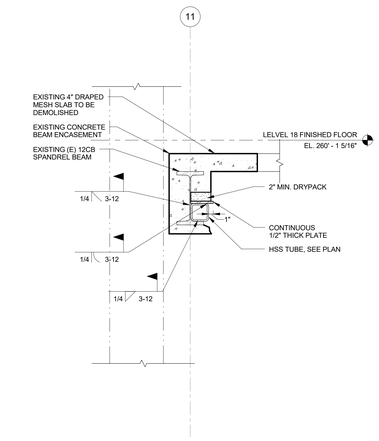

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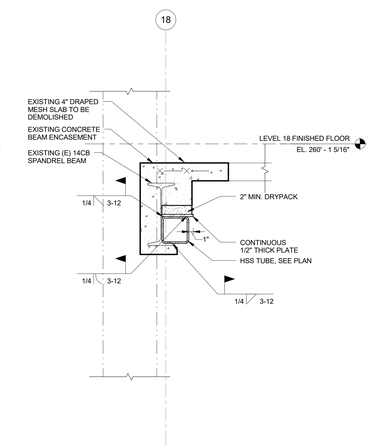

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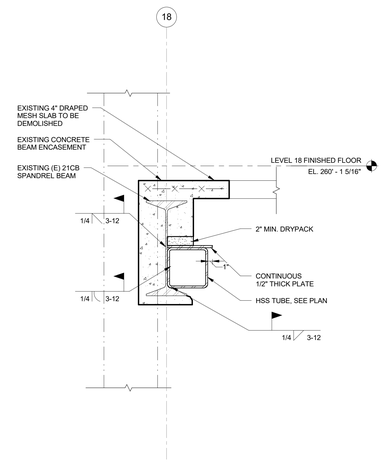

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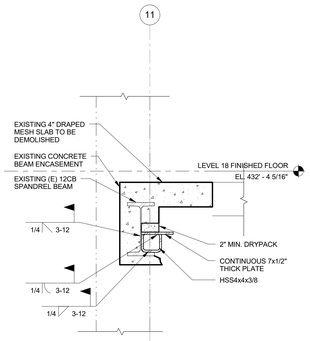

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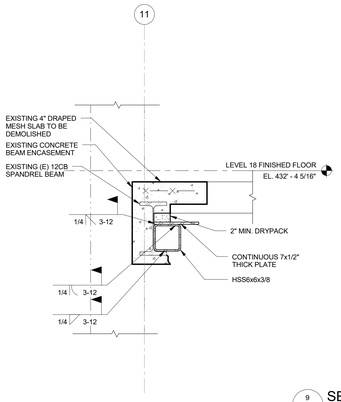

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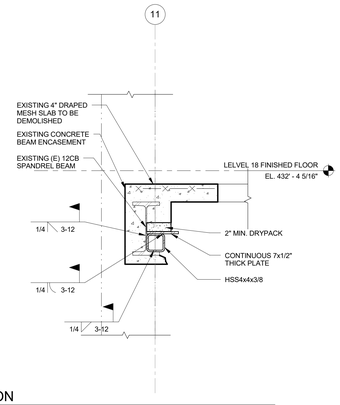

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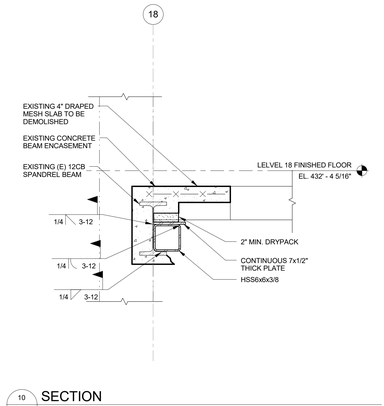

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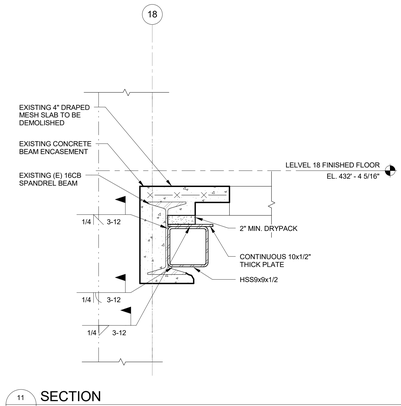

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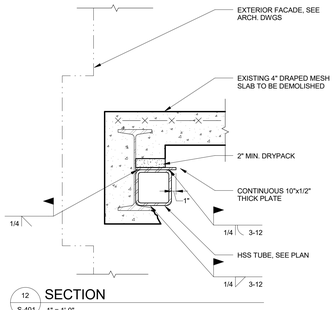

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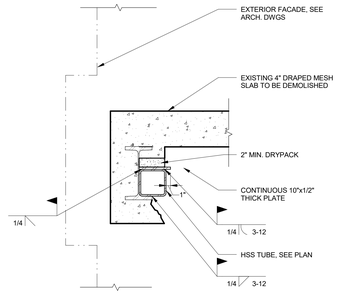

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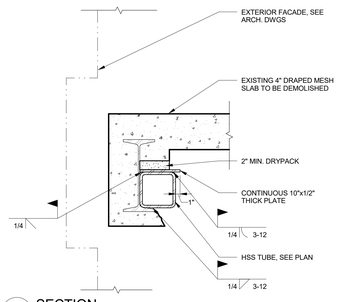

14 S-401 SECTION
1" = 1'-0"

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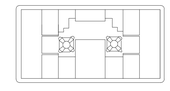

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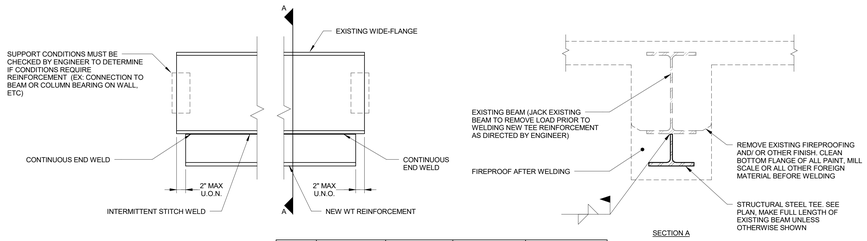
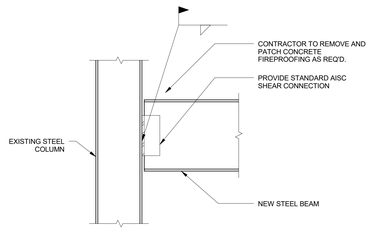


TYPE	LENGTH OF WT	FILLET WELD SIZE	STITCH WELD PATTERN	CONTINUOUS END WELD
WT2.5x8	FULL	1/4"	6@12" alt. sides	12"
WT3x10	FULL	1/4"	6@12" alt. sides	12"
WT3x12.5	FULL	1/4"	6@12" alt. sides	15"
WT4x15.5	FULL	1/4"	6@12" alt. sides	19"

TYPICAL REINFORCING OF EXISTING STRUCTURAL STEEL BEAM WITH WT SECTION

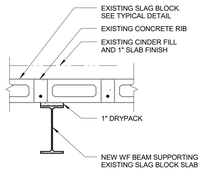
1" = 1'-0"



NOTE: IF EXISTING CONNECTIONS ON COLUMN INTERFERE WITH THIS DETAIL, CONTRACTOR SHALL SUBMIT ALTERNATE DETAIL FOR REVIEW.

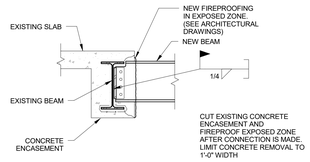
TYPICAL CONNECTION OF NEW BEAM TO EXISTING COLUMN

1" = 1'-0"

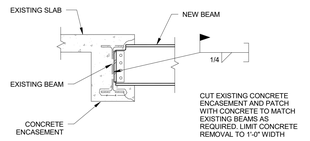


TYPICAL DETAIL NEW STEEL BEAM SUPPORTING EXISTING SLAGBLOCK SLAB

3/4" = 1'-0"



AT CONCEALED CEILING LOCATIONS

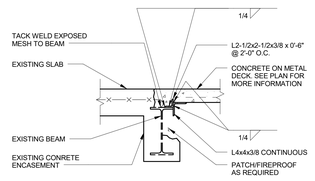


AT EXPOSED CEILING LOCATIONS

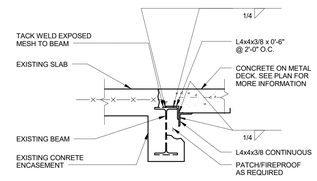
NOTE: IF EXISTING CONNECTIONS INTERFERE WITH THIS DETAIL, CONTRACTOR SHALL SUBMIT ALTERNATE DETAIL FOR REVIEW.

TYPICAL CONNECTION OF NEW BEAM TO EXISTING

3/4" = 1'-0"



OPTION "A"

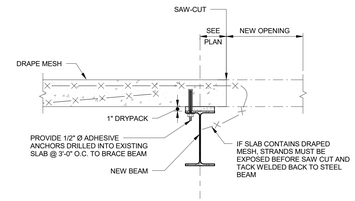


OPTION "B"

NOTE: CHOOSE OPTION "A" OR "B" THAT IS APPROPRIATE FOR EXISTING SLAB CONSTRUCTION AND FOR RELATIVE HEIGHTS OF EXISTING BEAM AND NEW SLAB

TYPICAL DETAIL NEW SLAB AND DECK TO EXISTING BEAM

3/4" = 1'-0"

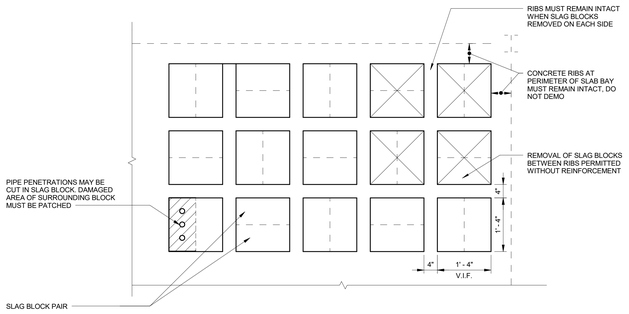


CONSTRUCTION SEQUENCE NOTE:

1. ERECT BEAM AND DRYPACK. DRYPACK SHALL BE (1) PART CEMENT + (2) PART SAND AND HAVE ZERO SLUMP.
2. AFTER DRYPACKING HAS CURED, SAW-CUT PERIPHERY OF OPENING AND REMOVE CONCRETE WITHIN SO AS NOT TO DAMAGE REMAINING FINISHES AND STRUCTURE

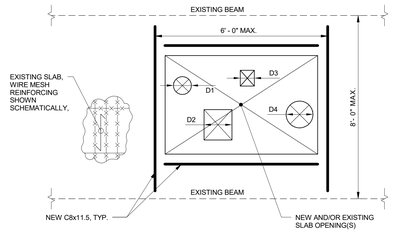
TYPICAL BEAM DRYPACKED BELOW EXISTING DRAPE MESH SLAB AT NEW OPENING

1" = 1'-0"



TYPICAL UNREINFORCED SLAGBLOCK SLAB DEMO PLAN DETAIL

3/4" = 1'-0"



NOTES:

1. PROVIDE NEW FRAMING WHERE TOTAL LENGTH AND/OR WIDTH OF OPENINGS WITHIN A 10'-0" DISTANCE IS MORE THAN 1'-6" (I.E., FOR MULTIPLE OPENINGS, D1+D2+D3+D4...ETC. > 1'-6"), REGARDLESS OF SPACING BETWEEN OPENINGS.
2. LOCATION, SIZE, AND CONFIGURATION OF NEW/EXISTING OPENINGS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR. WHERE POSSIBLE, REUSE EXISTING OPENINGS.
3. REINFORCING WIRES IN EXISTING SLAB ARE ASSUMED TO BE SPACED AT 3" TO 4" PARALLEL TO SLAB SPAN AND 16" PERPENDICULAR TO SLAB SPAN. CONTRACTOR SHALL LOCATE REINFORCING WIRES IN SLAB PRIOR TO CUTTING OPENINGS. WHERE POSSIBLE, LOCATE OPENINGS IN BETWEEN WIRES AND ALIGN OPENINGS RELATIVE TO WIRES SO AS TO MINIMIZE NUMBER OF WIRES THAT ARE CUT. ATTACH EXISTING WIRES TO NEW FRAMING AS PER TYPICAL DETAIL OF BEAM DRYPACKED BELOW EXISTING SLAB AT NEW OPENING
4. NEW FRAMING SHOWN IS REPRESENTATIVE. LOCATIONS REQUIRING NEW FRAMING SHALL BE IDENTIFIED IN THE FIELD BY THE CONTRACTOR, AND THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS FOR GUIDANCE.

TYPICAL DETAIL NEW OPENING(S) IN DRAPED MESH SLAB (FOR SINGLE AND MULTIPLE OPENINGS WITH LENGTH AND/OR WIDTH GREATER THAN 1'-6")

1" = 1'-0"

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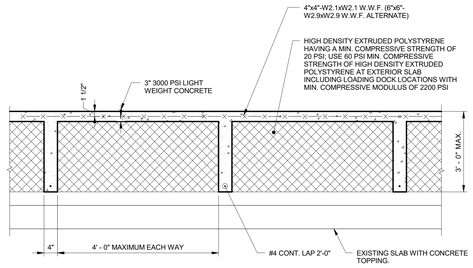
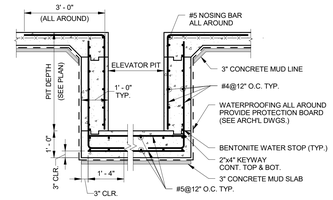


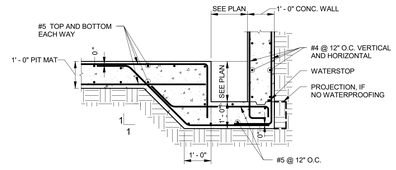
TYPICAL RAISED SLAB

3/4" = 1'-0"



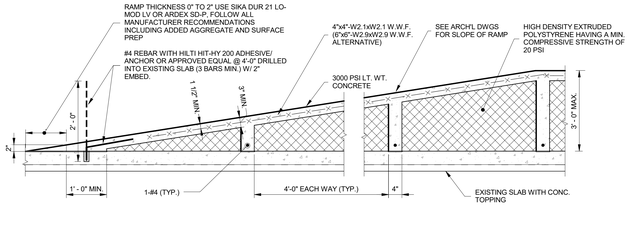
TYPICAL ELEVATOR PIT

N.T.S.



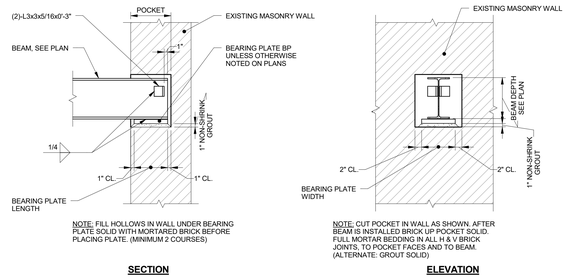
TYPICAL ELEVATOR SUMP PIT

N.T.S.



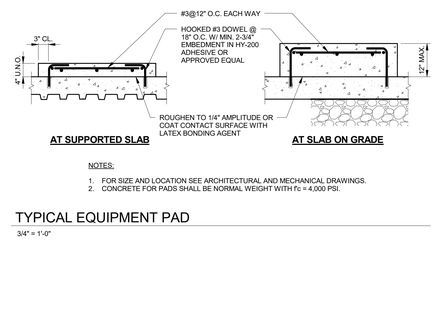
TYPICAL RAISED SLAB WITH RAMP

3/4" = 1'-0"



TYPICAL BEAM BEARING ON EXISTING WALL

3/4" = 1'-0"

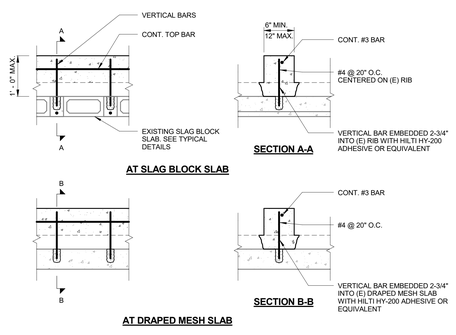


NOTES:

1. FOR SIZE AND LOCATION SEE ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. CONCRETE FOR PADS SHALL BE NORMAL WEIGHT WITH f'c = 4,000 PSI.

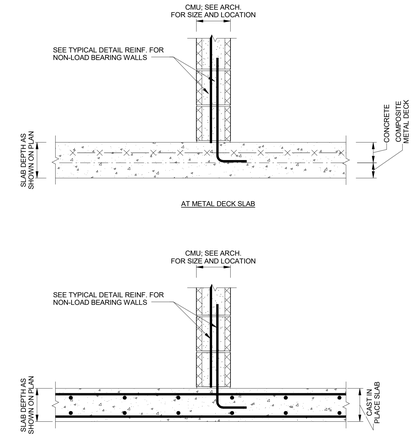
TYPICAL EQUIPMENT PAD

3/4" = 1'-0"



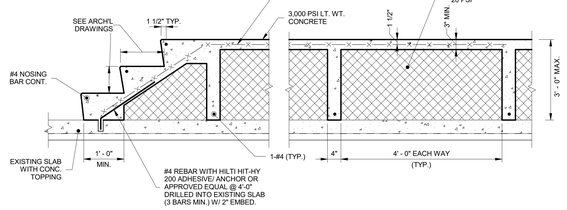
TYPICAL DETAIL NEW CONCRETE CURB ON EXISTING SLAG BLOCK OR DRAPED MESH SLAB

3/4" = 1'-0"



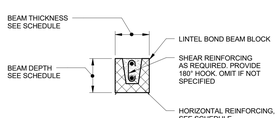
TYPICAL REINFORCING FOR NON-LOAD BEARING MASONRY WALLS

1" = 1'-0"



TYPICAL RAISED SLAB AT STAIR

3/4" = 1'-0"



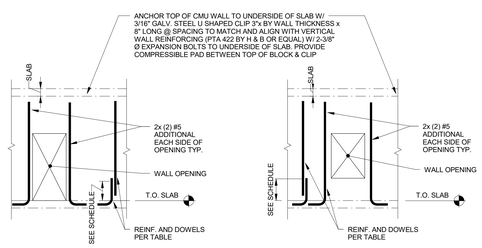
CMU BOND BEAM SCHEDULE				
LENGTH	BEAM THICKNESS	BEAM DEPTH	HORIZONTAL REINF.	SHEAR REINF.
0'-0" - 4'-0"	6"	8" (1 COURSE HIGH)	1-#5	

NOTES:

1. ALL BOND BEAM BEAMS TO BE GROUTED SOLID FOR FULL LENGTH OF BEAM.
2. ALL CMU BOND BEAM TO HAVE MIN. 6" BEARING ON EACH END.
3. ALL BOND BEAMS (SPANNING) WITH NO MASONRY ABOVE TO BE SINGLE COURSE WITH 1-#5 HORIZONTAL REINFORCING.
4. ALL OTHER (NON-SPANNING) BOND BEAMS TO BE SINGLE COURSE WITH 2-#4 HORIZONTAL REINFORCING.
5. VERTICAL PLACEMENT OF HORIZONTAL REINFORCEMENT IN ALL BOND BEAMS SHALL BE 3" FROM THE BOTTOM OF THE BEAM TO CENTER OF BAR, U.N.O. LINTEL REINFORCEMENT SHALL BE SUPPORTED BY WIRE CHAIRS.
6. HORIZONTAL PLACEMENT BETWEEN PARALLEL BARS SHALL NOT BE LESS THAN THE NOMINAL DIAMETER OF THE BARS OR 1".

TYPICAL CMU LINTEL BOND BEAM SCHEDULE

1" = 1'-0"



NOTE: PROVIDE LINTELS AS REQUIRED OVER WALL OPENINGS.

INTERIOR WALLS				
NOMINAL CMU THICKNESS	VERTICAL REBAR	HORIZONTAL REBAR	MAXIMUM HEIGHT (FT)	DOWELS
6"	#4 @ 48"	9 GAGE LADDER REINFORCING @ 16" O.C.	23'-6"	SAME AS VERTICAL BARS
8"	#4 @ 48"	9 GAGE LADDER REINFORCING @ 16" O.C.	27'-7"	SAME AS VERTICAL BARS

EXTERIOR WALLS				
NOMINAL CMU THICKNESS	VERTICAL REBAR	HORIZONTAL REBAR	MAXIMUM HEIGHT (FT)	DOWELS
6"	#5 @ 24"	9 GAGE LADDER REINFORCING @ 16" O.C.	14'-6"	SAME AS VERTICAL BARS
8"	#5 @ 24"	9 GAGE LADDER REINFORCING @ 16" O.C.	18'-8"	SAME AS VERTICAL BARS

TYPICAL REINFORCING FOR NON-LOAD BEARING MASONRY WALLS

1" = 1'-0"

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VERTICAL TRANSPORTATION

Van Deusen & Associates

CODE CONSULTING

Code Consultants, Inc.

LOGISTICS CONSULTANT

Lerch Bates Inc.

TRAFFIC, PARKING, AND LOADING

Philip Habib & Associates

EXTERIOR WALL CONSULTANT

WPM Engineering, P.C.

SECURITY CONSULTANT

Kroll Inc.

Azmi Zahed-Atkins, RA
Buildings
APPROVED
Under Directive 2 of 1975
Date: 07/14/2017
NYC Development Hub

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STATE OF NEW YORK
ESTHER C. ELIOT
No. 081671
LICENSED PROFESSIONAL ENGINEER

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TYPICAL DETAILS

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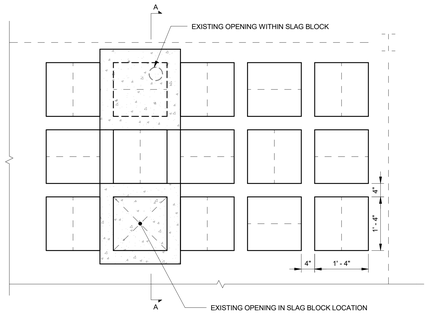
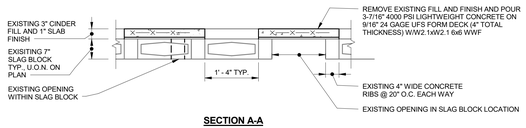


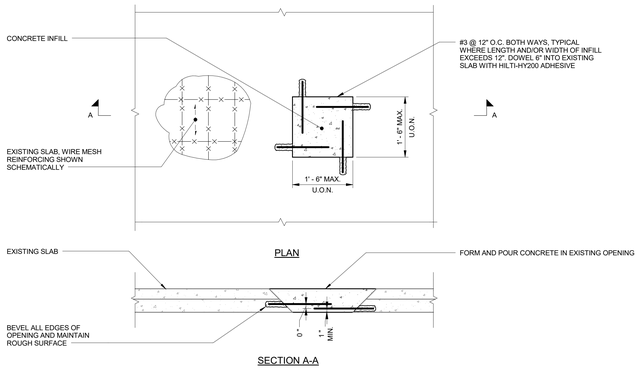
PLAN DETAIL



SECTION A-A

TYPICAL INFILL OF EXISTING PENETRATIONS AND NEW PARTIAL PENETRATIONS IN SLAG BLOCK

3/4" = 1'-0"



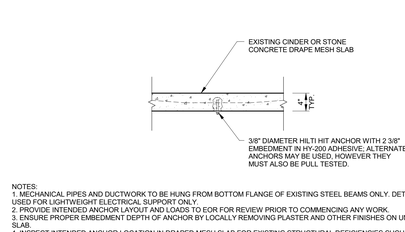
SECTION A-A

NOTES:

1. WHEN BEVELING EDGES OF EXISTING OPENINGS, CONTRACTOR SHALL TAKE CARE TO AVOID EXCESSIVE SLAB REMOVAL OR DAMAGE TO SURROUNDING EXISTING SLAB.
2. CONTRACTOR SHALL USE HAND TOOLS FOR SLAB PREPARATION.
3. WHEN EXISTING REINFORCEMENT IS PRESENT, PROVIDE MINIMUM 1" COVER ALL AROUND BAR TO ALLOW NEW CONCRETE TO ENGAGE EXISTING BAR. REMOVE ANY CORROSION FROM EXISTING REINFORCING.
4. PROVIDE BONDING AGENT AT SURFACE BETWEEN EXISTING AND NEW CONCRETE.

TYPICAL DETAIL PATCH AT EXISTING SMALL OPENING IN DRAPE MESH SLAB

3/4" = 1'-0"



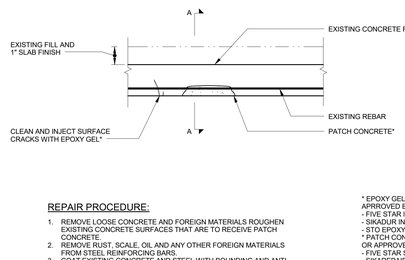
NOTES:

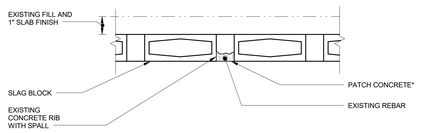
1. HANG MECHANICAL ELECTRICAL AND PLUMBING FIXTURES DIRECTLY FROM STEEL BEAMS TO HELP LIMIT HANGING IN SLAG BLOCK SLABS AS MUCH AS POSSIBLE. PROVIDE INTENDED ANCHOR LAYOUT AND LOADS TO EOR FOR REVIEW PRIOR TO COMMENCING ANY WORK.
2. ENSURE PROPER EMBEDMENT DEPTH OF ANCHOR BY LOCALLY REMOVING PLASTER AND OTHER FINISHES ON UNDERSIDE OF EXISTING SLAB.
3. INSPECT INTENDED ANCHOR LOCATION IN SLAG BLOCK SLAB FOR EXISTING STRUCTURAL DEFICIENCIES SUCH AS CRACKS AND SPALLS. ANCHORS SHALL NOT BE HUNG IN LOCATIONS WITH STRUCTURAL DEFICIENCIES.
5. PRIOR TO START OF CONSTRUCTION, PERFORM PULL TESTS IN THE EXISTING SLAG BLOCK TO ESTABLISH ALLOWABLE SERVICE LOAD INFORMATION FOR ANCHORS TO BE USED TO HANG MEP, LIGHTING AND CEILING CONSTRUCTION PER REGIMEN NOTED BELOW:

SUGGESTED PULL TEST REGIMEN:
A. THE FOLLOWING TWO ANCHOR TYPES ARE TO BE TESTING FOR ANCHORAGE INTO SLACK BLOCK: HILTI HAS-E ROD (3/8" DIAMETER) WITH 16X85 SCREEN IN HY-70 ADHESIVE WITH 4" EMBEDMENT OR HILTI HTB TOGGLER BOLT (3/8" DIAMETER)
B. A SERIES OF THREE (MINIMUM) PULL TESTS IN THE EXISTING SLAG BLOCK SHOULD BE PERFORMED IN THE CEILING OF THE FOLLOWING FLOORS FOR THE TWO APPROVED ANCHOR TYPES LISTED ABOVE;
LEVEL 3, LEVEL 4, LEVEL 8, LEVEL 12, LEVEL 16, LEVEL 24, LEVEL 32, LEVEL 40, LEVEL 42.
C. OBTAIN MAXIMUM ALLOWABLE SERVICE LOAD INFORMATION, AND RECOMMEND ANCHOR PARAMETERS FOR EOR REVIEW. LOCATE TEST ANCHORS IN MATERIAL PER DETAIL ABOVE.
D. SPACE ANCHORS TO BE TESTED AT EACH FLOOR IN DIFFERENT FRAMING BAYS. TEST ANCHORS IN SLAB OBSERVED TO BE IN GOOD CONDITION.
E. TEST ANCHORS TO 1500 LBS TO PROVIDE ALLOWABLE ANCHOR LOAD OF 300 LBS.
F. DO NOT TEST ANCHORS TO FAILURE.
G. PROVIDE E.O.R. WITH SIGNED TEST REPORT.

TYPICAL DETAIL FOR HANGERS AND ATTACHMENTS TO EXISTING SLAG BLOCK

3/4" = 1'-0"





SECTION A-A

REPAIR PROCEDURE:

1. REMOVE LOOSE CONCRETE AND FOREIGN MATERIALS ROUGHEN EXISTING CONCRETE SURFACES THAT ARE TO RECEIVE PATCH CONCRETE.
2. REMOVE RUST, SCALE, OIL AND ANY OTHER FOREIGN MATERIALS FROM STEEL REINFORCING BARS.
3. COAT EXISTING CONCRETE AND STEEL WITH BOUNDING AND ANTI-CORROSION AGENTS AS SPECIFIED BY MANUFACTURER.
4. PREPARE AND APPLY PATCH CONCRETE PER MANUFACTURER'S SPECIFICATIONS. FOLLOW INSTRUCTIONS FOR LIFT LAYERS, ENVIROMENT CONDITIONS, TOOLS, AND ALL OTHER PROCEDURES.

* EPOXY GEL SHALL BE ONE OF THE FOLLOWING, OR APPROVED EQUAL:
- FIVE STAR INJECTION GEL BY FIVE STAR;
- SIKADUR INJECTION GEL BY SIKA;
- STO EPOXY GEL CR535 BY STO.
* PATCH CONCRETE SHALL BE ONE OF THE FOLLOWING, OR APPROVED EQUAL:
- FIVE STAR STRUCTURAL CONCRETE V/O BY FIVE STAR;
- SIKAREPAIR SHA BY SIKA;
- STO TROWEL-GRADE MORTAR BY STO.

NOTE:

ALL REPAIR PRODUCTS SHALL BE BY SIKA, STO, FIVE STAR, OR OTHER APPROVED MANUFACTURER. CONTRACTOR SHALL SUBMIT SPECIFICATIONS OF ALL PRODUCTS TO THE ARCHITECT AND ENGINEER PRIOR TO STAGING THE WORK.

TYPICAL REPAIR SPALL FROM CONCRETE RIB, REBAR EXPOSED BUT INTACT

1" = 1'-0"

NOTES:
1. MECHANICAL PIPES AND DUCTWORK TO BE HUNG FROM BOTTOM FLANGE OF EXISTING STEEL BEAMS ONLY. DETAIL ABOVE TO BE USED FOR LIGHTWEIGHT ELECTRICAL SUPPORT ONLY.
2. PROVIDE INTENDED ANCHOR LAYOUT AND LOADS TO EOR FOR REVIEW PRIOR TO COMMENCING ANY WORK.
3. ENSURE PROPER EMBEDMENT DEPTH OF ANCHOR BY LOCALLY REMOVING PLASTER AND OTHER FINISHES ON UNDERSIDE OF EXISTING SLAB.
4. INSPECT INTENDED ANCHOR LOCATION IN DRAPED MESH SLAB FOR EXISTING STRUCTURAL DEFICIENCIES SUCH AS CRACKS AND SPALLS. ANCHORS SHALL NOT BE HUNG IN LOCATIONS WITH STRUCTURAL DEFICIENCIES.
5. PRIOR TO START OF CONSTRUCTION, PERFORM PULL TESTS IN THE EXISTING DRAPE MESH SLAB TO ESTABLISH ALLOWABLE SERVICE LOAD INFORMATION FOR ANCHORS TO BE USED TO HANG LIGHTING AND CEILING CONSTRUCTION PER REGIMEN NOTED BELOW:

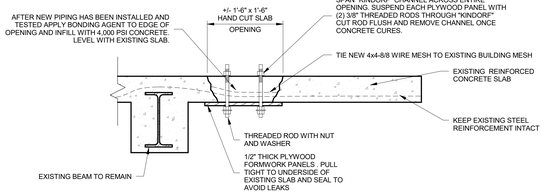
SUGGESTED PULL TEST REGIMEN:
THE FOLLOWING TWO ANCHOR TYPE IS TO BE TESTING FOR ANCHORAGE INTO SLACK BLOCK: HILTI HIT-Z 3/8" DIAMETER ANCHOR WITH 2 3/8" EMBEDMENT.
A. SERIES OF THREE (MINIMUM) PULL TESTS IN THE EXISTING DRAPE MESH SLAB IN THE CEILING OF THE FOLLOWING FLOORS FOR ANCHOR INTENDED TO BE USED (E.G. HILTI HIT HY-200) :
SUB-CELLAR 2, SUB-CELLAR 1, CELLAR, BASEMENT, LEVEL 1, LEVEL 2, LEVEL 5, LEVEL 8, LEVEL 12, LEVEL 17, LEVEL 18, LEVEL 19, LEVEL 24, LEVEL 32, LEVEL 40, LEVEL 42, LEVEL 44.

OBTAIN MAXIMUM ALLOWABLE SERVICE LOAD INFORMATION, AND RECOMMEND ANCHOR PARAMETERS FOR EOR REVIEW. LOCATE TEST ANCHORS IN MATERIAL SIMILAR TO THAT OF THE FINAL ANCHOR LOCATIONS.

B. SPACE ANCHORS TO BE TESTED AT EACH FLOOR IN DIFFERENT FRAMING BAYS. TEST ANCHORS IN SLAB OBSERVED TO BE IN GOOD CONDITION.
C. TEST ANCHORS TO 750 LBS TO PROVIDE ALLOWABLE ANCHOR LOAD OF 150 LBS.
D. DO NOT TEST ANCHORS TO FAILURE.
E. PROVIDE E.O.R. WITH SIGNED TEST REPORT.

TYPICAL DETAIL FOR HANGERS AND ATTACHMENTS TO EXISTING CINDER AND STONE CONCRETE DRAPE MESH SLABS.

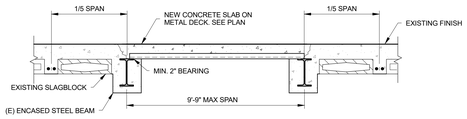
1" = 1'-0"



NOTES:
1. DETAIL SHOWN IS TYPICAL AT NEW SLAB OPENINGS IN EXISTING CONCRETE SLAB FOR NEW PIPING.
2. EXACT LAYOUT OF NEW SLAB OPENINGS WILL BE DETERMINED ONCE DEMOLITION IS COMPLETE AND PIPING RUNS CAN BE DETERMINED. NO OPENINGS ARE TO BE MADE WITHOUT APPROVAL OF THE EOR.
3 EACH NEW SLAB OPENING TO BE REVIEWED BY THE EOR. MAX OPENING SIZE AT NORED ABOVE. MINIMUM SPACING BETWEEN OPENINGS TO BE 3'-0" CLEAR IN EITHER DIRECTION.

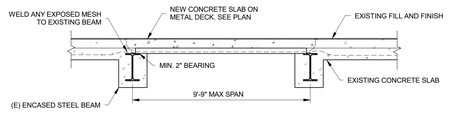
TYPICAL DETAIL EXISTING PIPE PENETRATION SLAB INFILL

1 1/2" = 1'-0"



TYPICAL INFILL OF EXISTING OPENING IN SLAGBLOCK SLAB

3/4" = 1'-0"



TYPICAL INFILL OF EXISTING OPENING IN DRAPED MESH SLAB

3/4" = 1'-0"

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SECURITY CONSULTANT
Kroll Inc.

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Buildings
APPROVED
Under Directive 3 of 1975
Date: 07/14/2017
NYC Development Hub

KEYPLAN

SEAL

STATE OF NEW YORK
ALEXANDER C. ELLIOT
NO. 086167
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
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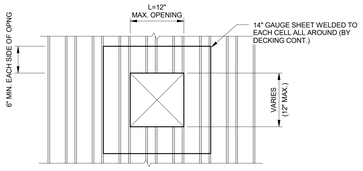
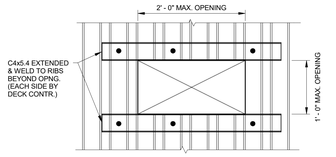


NO REINF. REQUIRED WHERE "L" IS 6" OR LESS IN DIRECTION PERPENDICULAR TO DECK.

FOR OPENINGS UP TO 12" PERPENDICULAR TO DECK



NO REINF. REQUIRED FOR HOLES 6" Ø OR LESS.

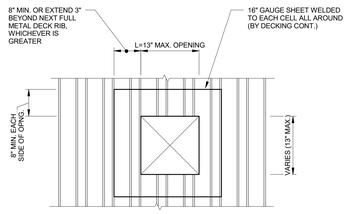
FOR OPENINGS UP TO 2'-0" PERPENDICULAR TO DECK

NOTES:

1. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR OPENING SIZE AND LOCATION.
2. WHERE POSSIBLE; EXTEND DECK CONTINUOUSLY OVER OPENING REINFORCE, BLOCK/BOX OUT CONCRETE, AND CUT DECK WHEN OPENING IS REQUIRED.

TYPICAL REINFORCEMENT FOR UNFRAMED OPENINGS IN COMPOSITE FLOOR DECK

1" = 1'-0"



NO REINF. REQUIRED WHERE "L" IS 2" OR LESS IN DIRECTION PERPENDICULAR TO DECK.

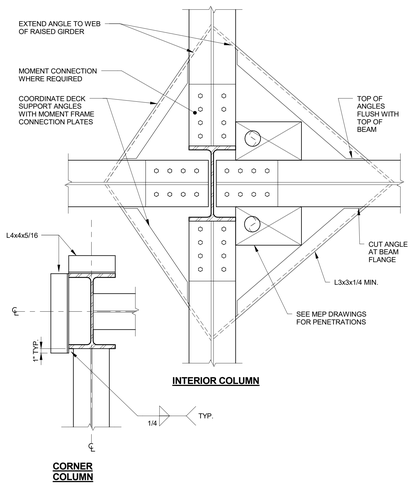
FOR OPENINGS UP TO 13" PERPENDICULAR TO DECK

NOTES:

1. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR OPENING SIZE AND LOCATION.
2. WHERE POSSIBLE; EXTEND DECK CONTINUOUSLY OVER OPENING, REINFORCE AND CUT DECK WHEN OPENING IS REQUIRED.

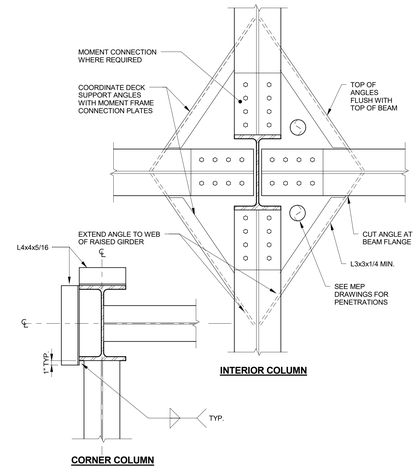
TYPICAL REINFORCEMENT FOR UNFRAMED OPENINGS IN ROOF DECK

1" = 1'-0"



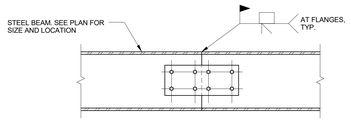
TYPICAL DECK SUPPORT AT COLUMNS

1" = 1'-0"



TYPICAL DECK SUPPORT AT COLUMNS

1" = 1'-0"

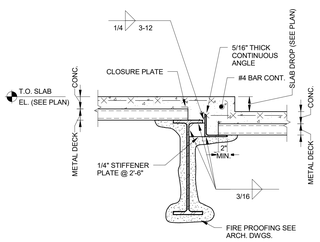


NOTES:

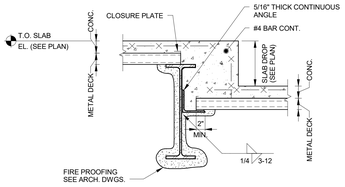
1. FLANGE AND WEB SPLICE CONNECTIONS TO DEVELOP THE FULL CAPACITY OF THOSE BEAM ELEMENTS.
2. ALTERNATE BOLTED FLANGE PLATE IS ACCEPTABLE AT BEAM FLANGE SPLICE CONNECTIONS PROVIDED THAT THE CONNECTION DEVELOPS THE FULL CAPACITY OF BEAM FLANGE.
3. COORDINATE AND SUBMIT SPLICE LOCATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
4. ALL FULL PENETRATION WELDS TO BE ULTRASONICALLY TESTED.

TYPICAL BEAM SPLICE FOR PRICING

3/4" = 1'-0"



DETAIL AT SLAB DROP 5" OR LESS

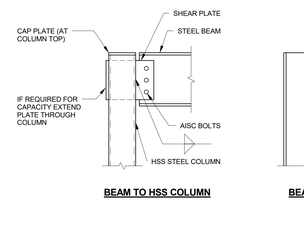


DETAIL AT SLAB DROP GREATER THAN 5"

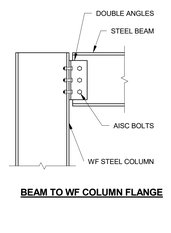
NOTE: FOR NOTES AND INFORMATION NOT SHOWN SEE TYPICAL FLOOR CONSTRUCTION

TYPICAL STEP IN SLAB ON METAL DECK

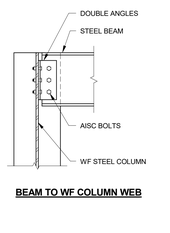
1" = 1'-0"



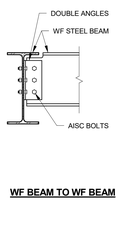
BEAM TO HSS COLUMN



BEAM TO WF COLUMN FLANGE



BEAM TO WF COLUMN WEB



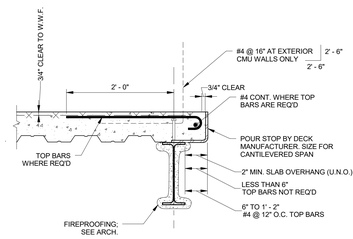
WF BEAM TO WF BEAM

NOTES:

1. CONNECTION DETAILS SHOWN ABOVE ARE SCHEMATIC ONLY. THE CONTRACTOR MAY SUBMIT ALTERNATE DETAILS FROM THOSE SHOWN ABOVE, BUT IN ANY CASE THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING STEEL SHOP DRAWINGS IN ACCORDANCE WITH THE PROJECT GENERAL NOTES AND AISC GUIDELINES. CALCULATIONS SHALL BE SUBMITTED AS REQUIRED IN THE GENERAL NOTES AND ELSEWHERE IN THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL DETAIL THE PROJECT CONNECTIONS FOR THE LOADS AS INDICATED IN THE CONTRACT DOCUMENTS, PER AISC GUIDELINES. THE SCHEMATIC DETAILS ABOVE ARE NOT SUGGESTIVE OF SPECIFIC CAPACITIES. THE NUMBER AND SIZE OF BOLTS, SIZE AND LENGTH OF WELDS, AND SIZE OF STEEL PIECES MUST BE DETERMINED PER AISC GUIDELINES AND THE CONTRACT DOCUMENTS.
3. PROVIDE FULL DEPTH CONNECTIONS AT ALL PERIMETER BEAM CONNECTIONS AND AT BEAM CONNECTIONS TO PERIMETER BEAMS, UNLESS OTHERWISE NOTED.

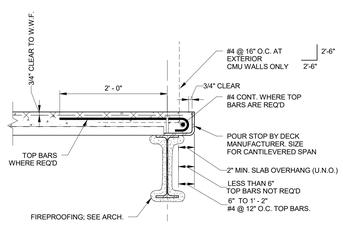
TYPICAL SUGGESTED SHEAR CONNECTIONS AT GRAVITY LOADS ONLY

1" = 1'-0"



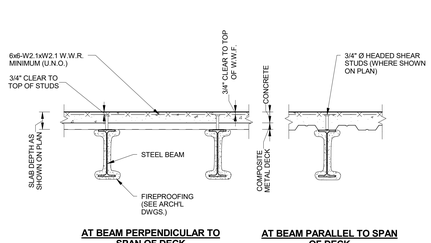
TYPICAL COMPOSITE FLOOR DECK PARALLEL EDGE CONDITION

1" = 1'-0"



TYPICAL COMPOSITE FLOOR DECK PERPENDICULAR EDGE CONDITION

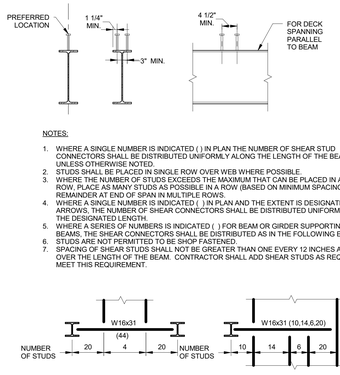
1" = 1'-0"



AT BEAM PERPENDICULAR TO SPAN OF DECK **AT BEAM PARALLEL TO SPAN OF DECK**

TYPICAL COMPOSITE BEAM & SLAB CONSTRUCTION

3/4" = 1'-0"



NOTES:

1. WHERE A SINGLE NUMBER IS INDICATED ( ) IN PLAN THE NUMBER OF SHEAR STUD CONNECTORS SHALL BE DISTRIBUTED UNIFORMLY ALONG THE LENGTH OF THE BEAM, UNLESS OTHERWISE NOTED.
2. STUDS SHALL BE PLACED IN SINGLE ROW OVER WEB WHERE POSSIBLE.
3. WHERE THE NUMBER OF STUDS EXCEEDS THE MAXIMUM THAT CAN BE PLACED IN A SINGLE ROW, PLACE AS MANY STUDS AS POSSIBLE IN A ROW (BASED ON MINIMUM SPACING) AND ADD REMAINDER AT END OF SPAN IN MULTIPLE ROWS.
4. WHERE A SINGLE NUMBER IS INDICATED ( ) IN PLAN AND THE EXTENT IS DESIGNATED BY ARROWS, THE NUMBER OF SHEAR CONNECTORS SHALL BE DISTRIBUTED UNIFORMLY ALONG THE DESIGNATED LENGTH.
5. WHERE A SERIES OF NUMBERS IS INDICATED ( ) FOR BEAM OR GIRDER SUPPORTING OTHER BEAMS, THE SHEAR CONNECTORS SHALL BE DISTRIBUTED AS IN THE FOLLOWING EXAMPLE.
6. STUDS ARE NOT PERMITTED TO BE SHOP FASTENED.
7. SPACING OF SHEAR STUDS SHALL NOT BE GREATER THAN ONE EVERY 12 INCHES AVERAGED OVER THE LENGTH OF THE BEAM. CONTRACTOR SHALL ADD SHEAR STUDS AS REQUIRED TO MEET THIS REQUIREMENT.

TYPICAL COMPOSITE BEAMS SHEAR STUD CONNECTORS

3/4" = 1'-0"

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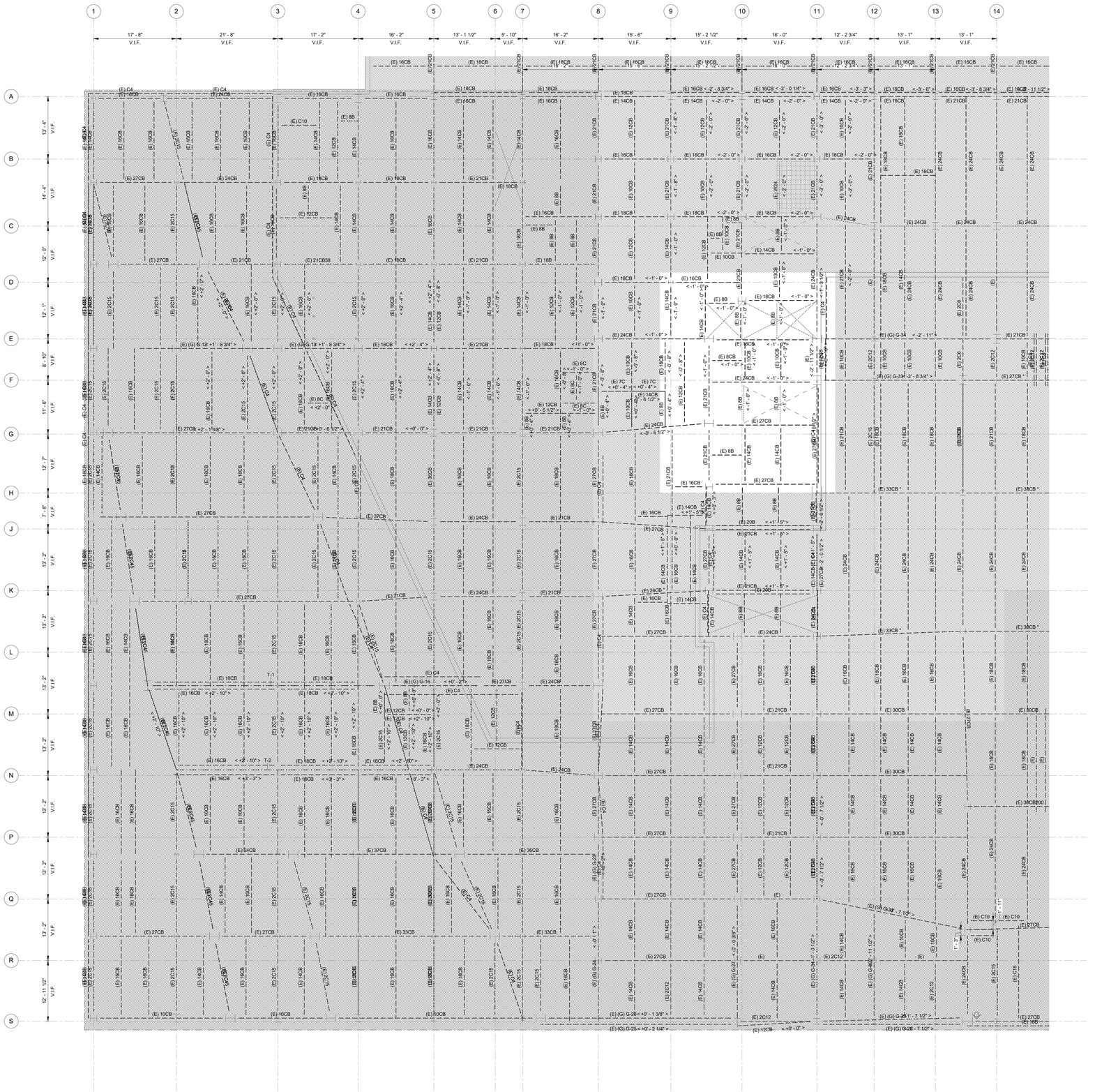

1 S-707 BASEMENT STEEL - PART PLAN A
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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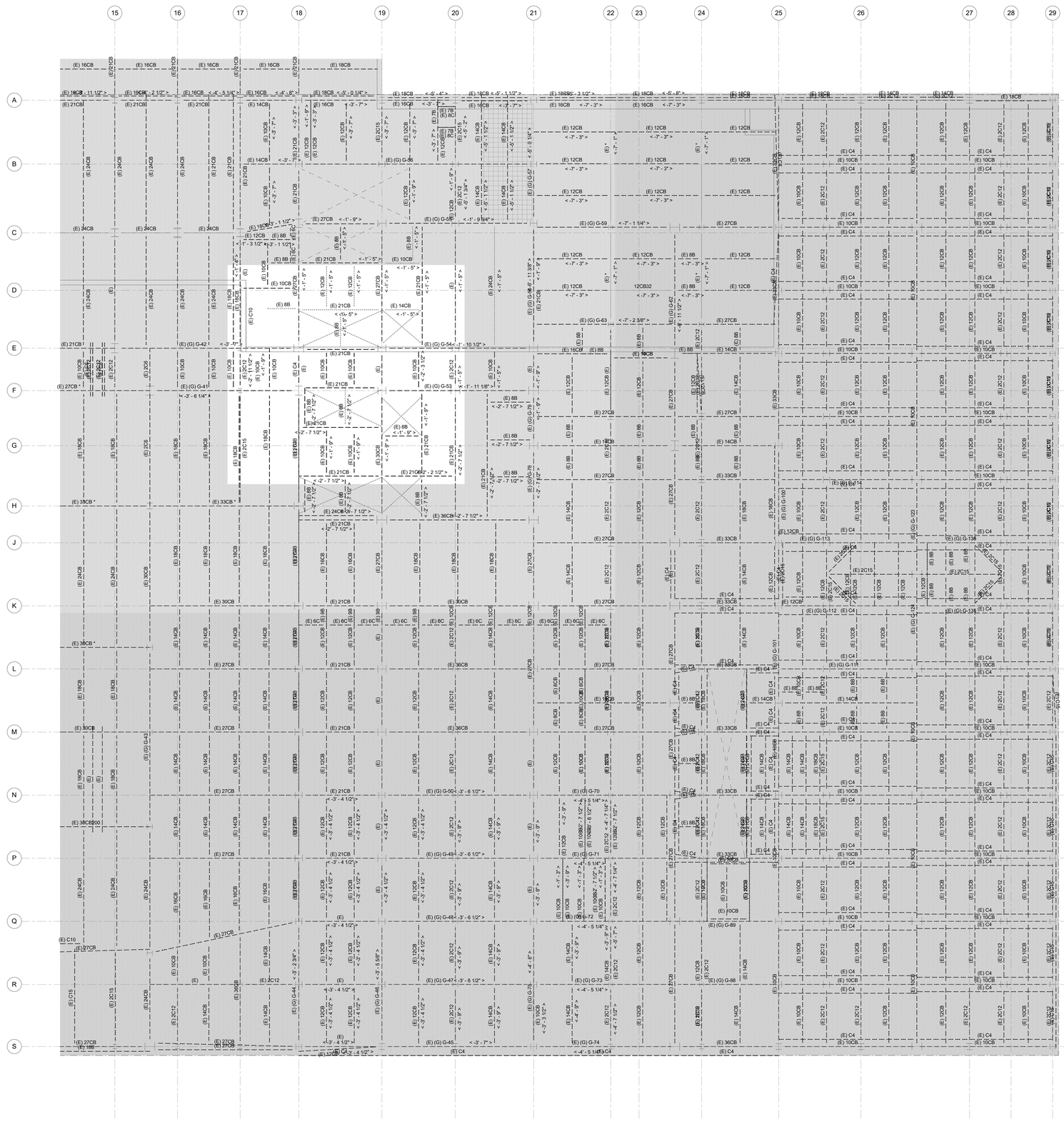

1 S-708 BASEMENT STEEL - PART PLAN B
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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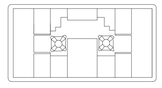

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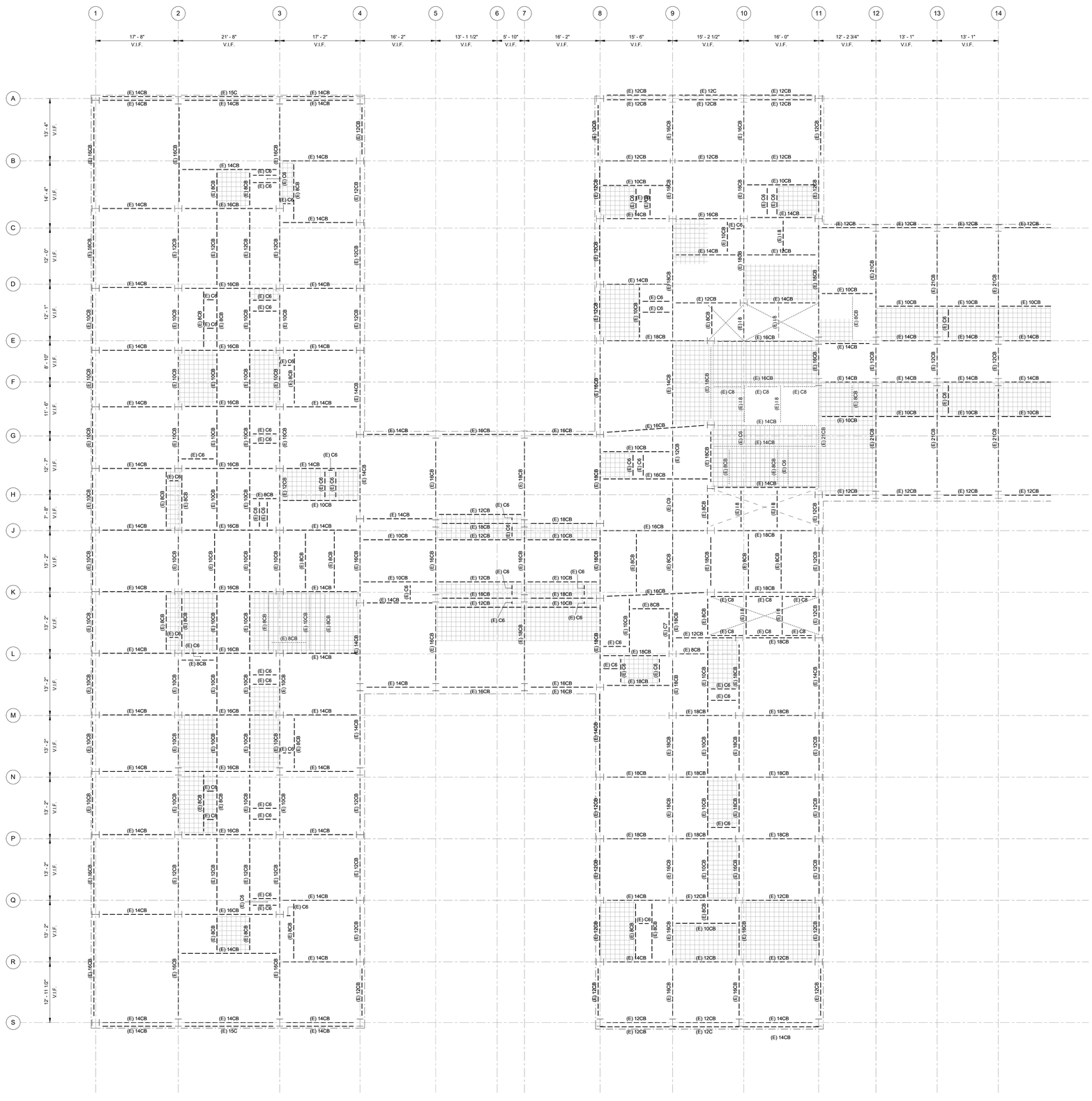

2 S-733 LEVEL 13 STEEL - PART A
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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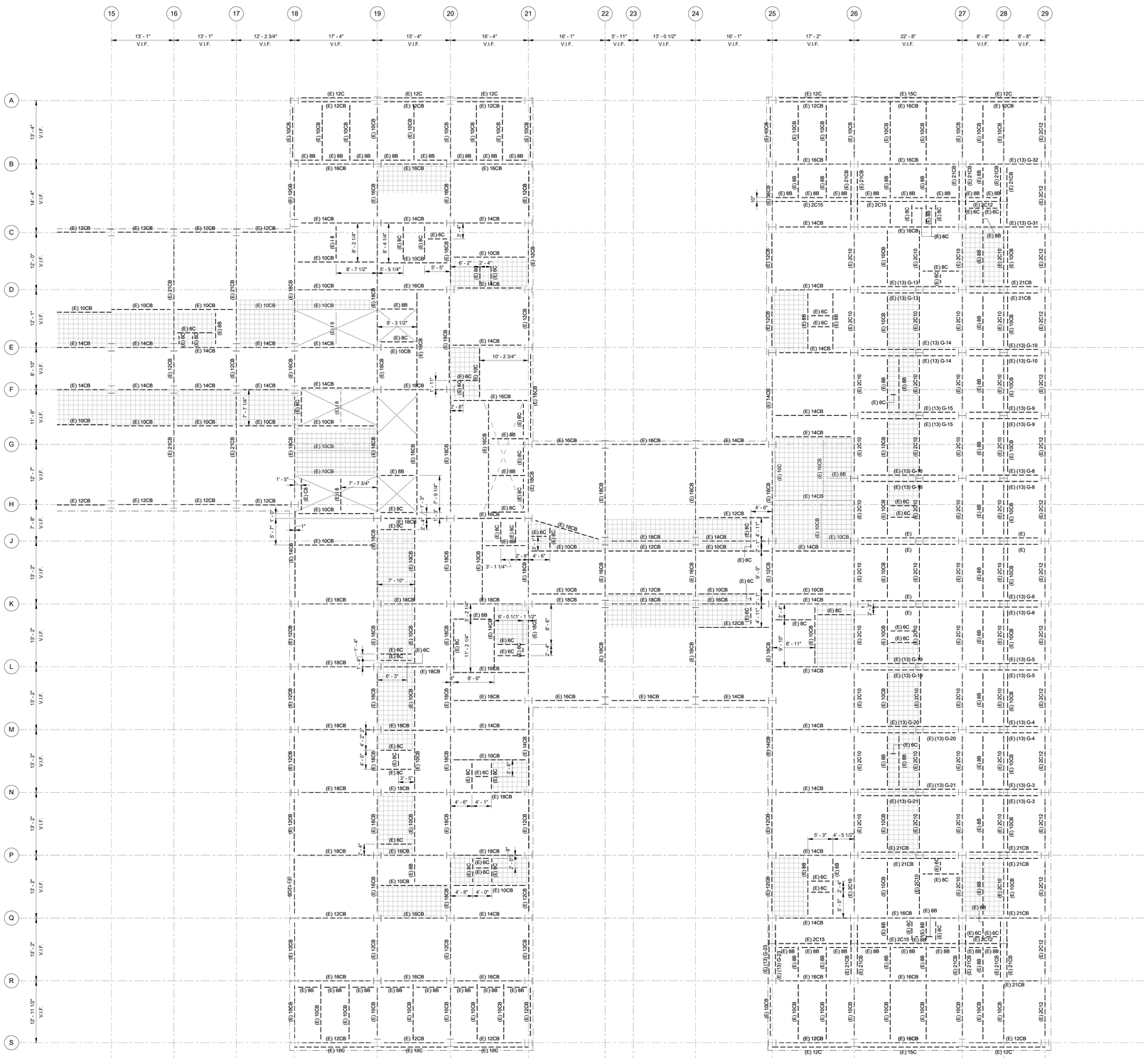

2 LEVEL 13 STEEL - PART B
S-734 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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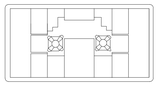

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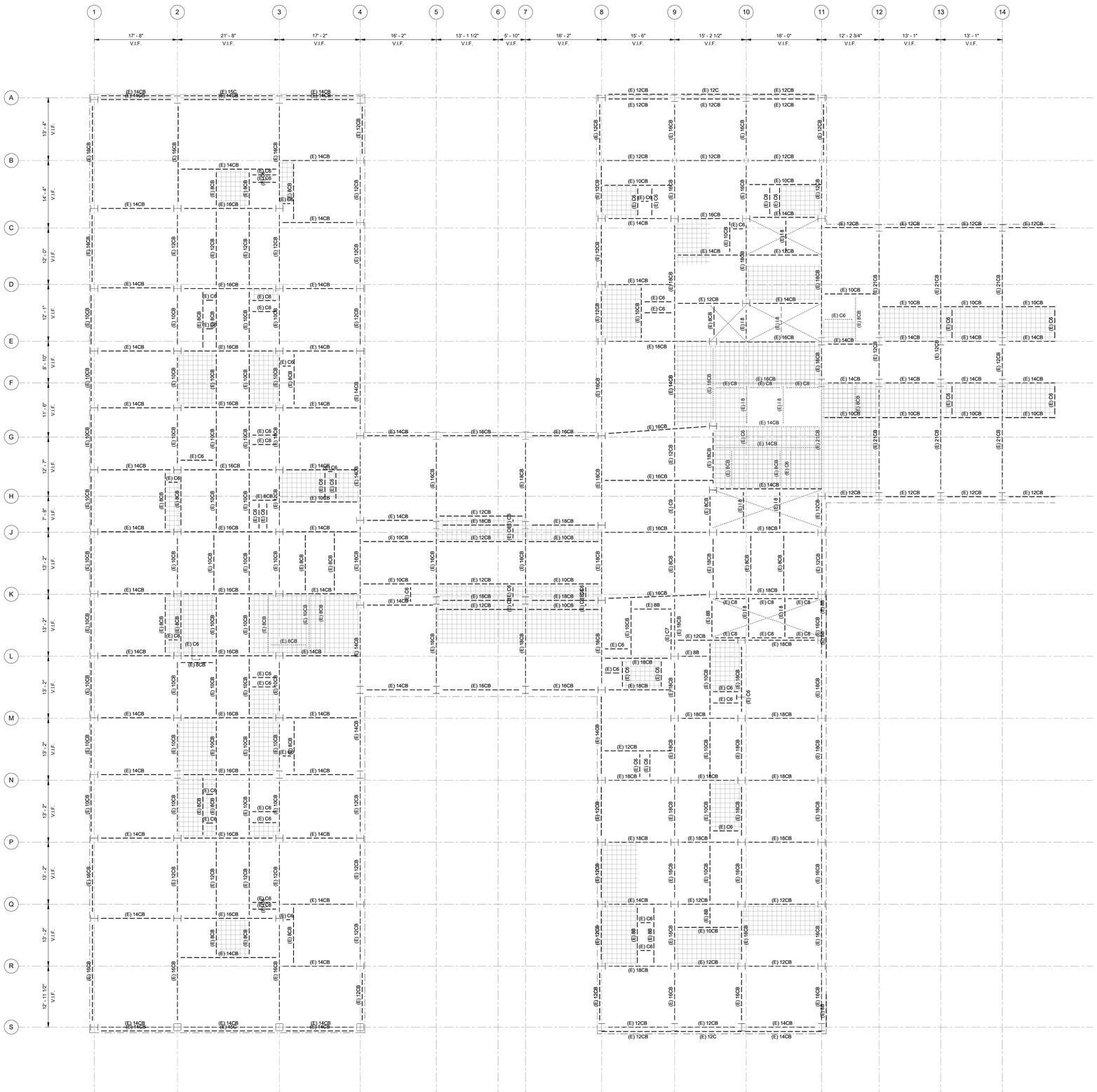

2 S-735 LEVEL 14 STEEL - PART A
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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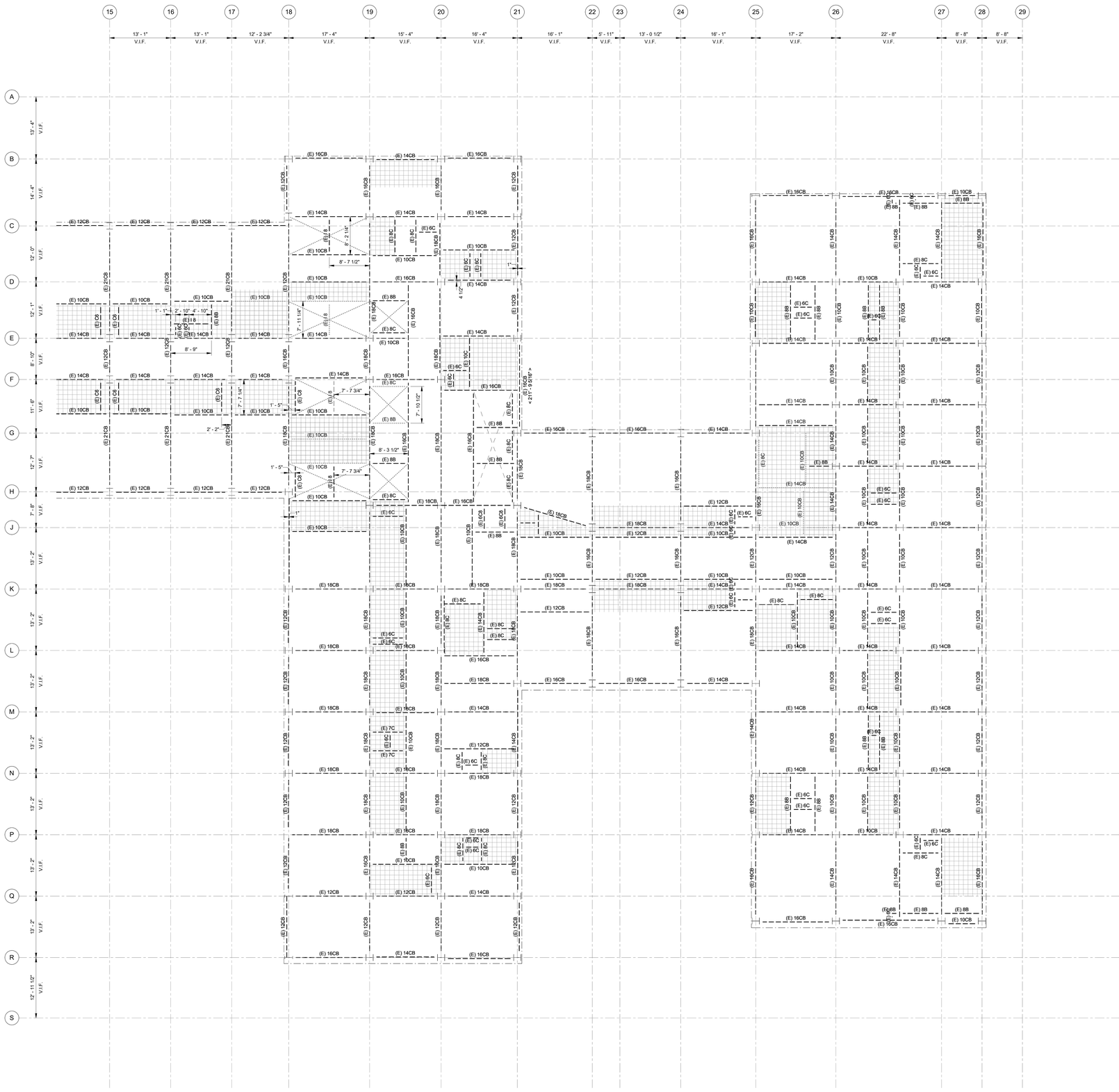

2 LEVEL 14 STEEL - PART B
S-736 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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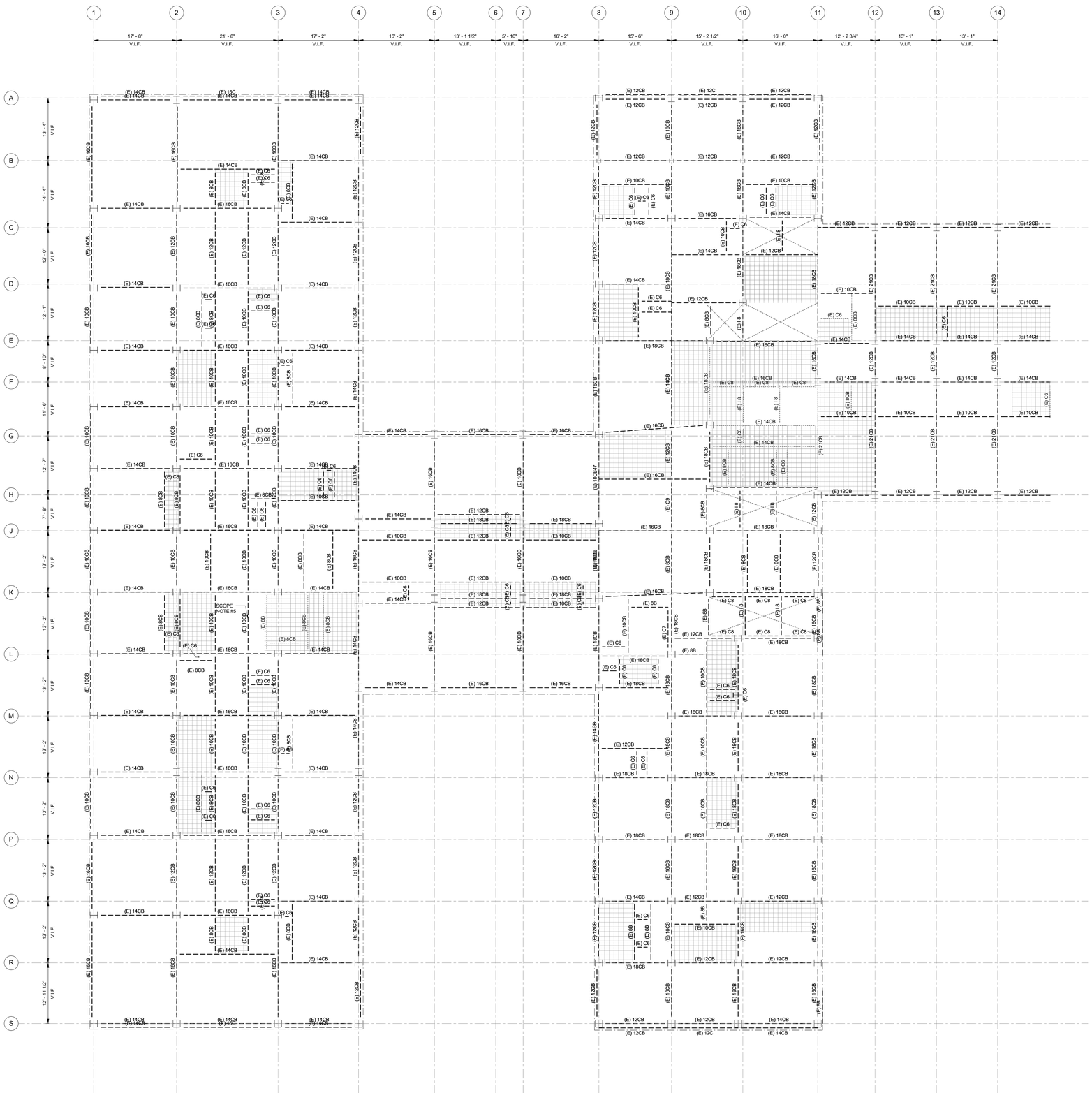

2 S-737 LEVEL 15 STEEL - PART A

1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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4. CONTRACTOR SHALL ADHERE TO ANY REQUIREMENTS REGARDING NOISE, DUST-CONTROL, PEDESTRIAN PROTECTION AND SIDEWALK ACCESS STIPULATED BY THE DOB OR ANY ENTITY HAVING JURISDICTION

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LEVEL 15 DEMO - PART PLAN A

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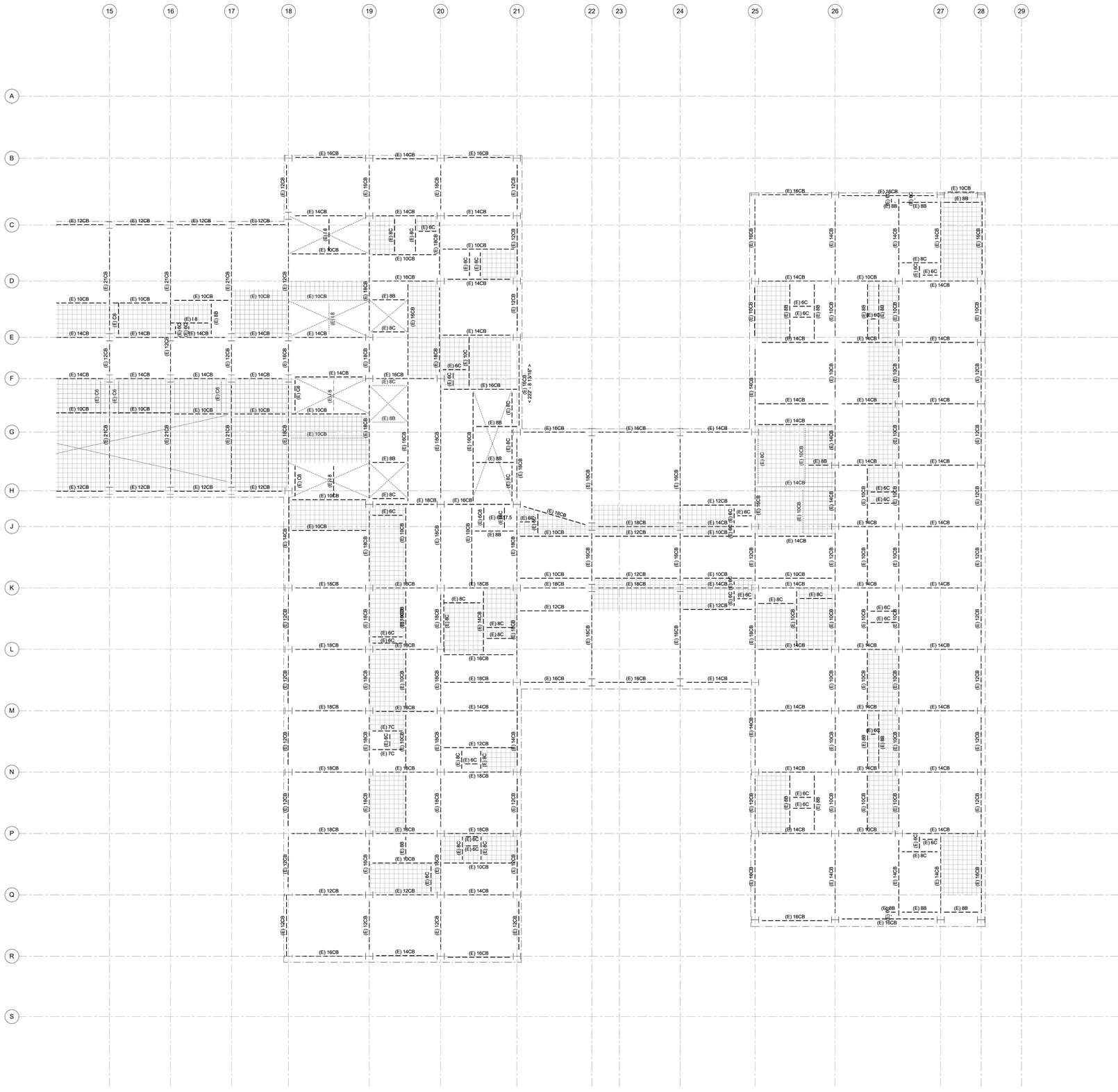

2 S-738 LEVEL 15 STEEL - PART B
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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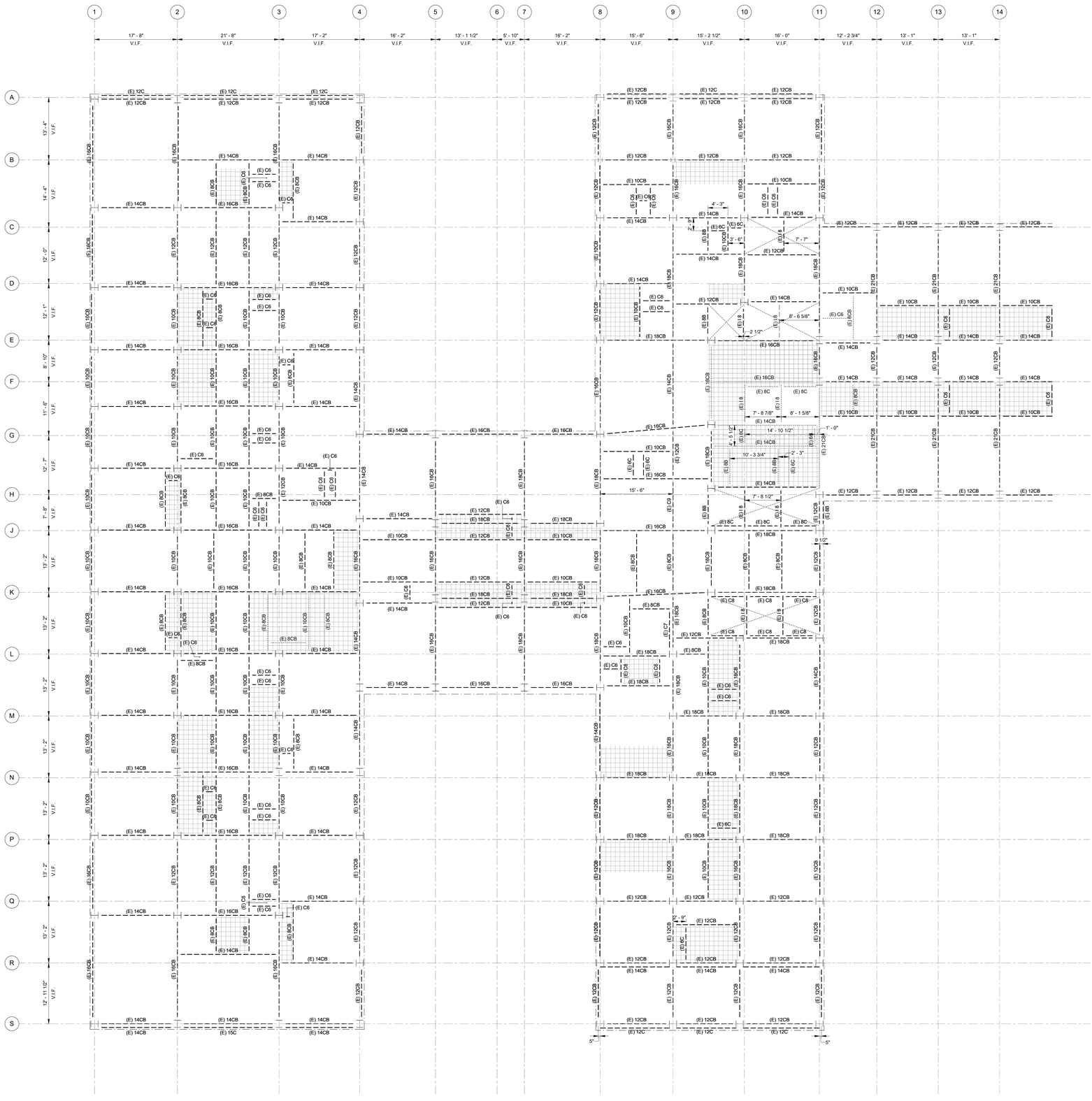

2 S-739 LEVEL 16 STEEL - PART A
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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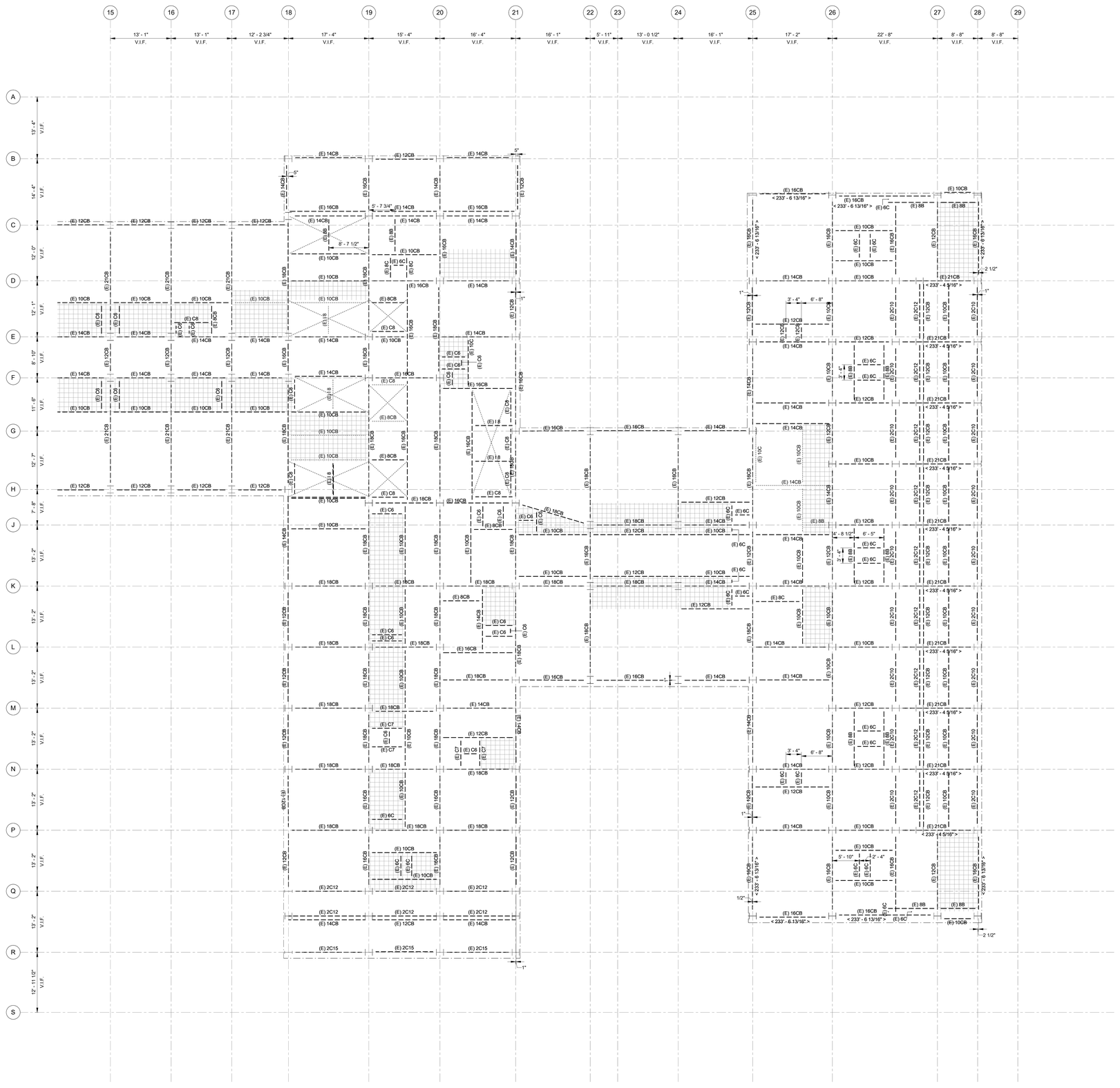

2 S-740 LEVEL 16 STEEL - PART B
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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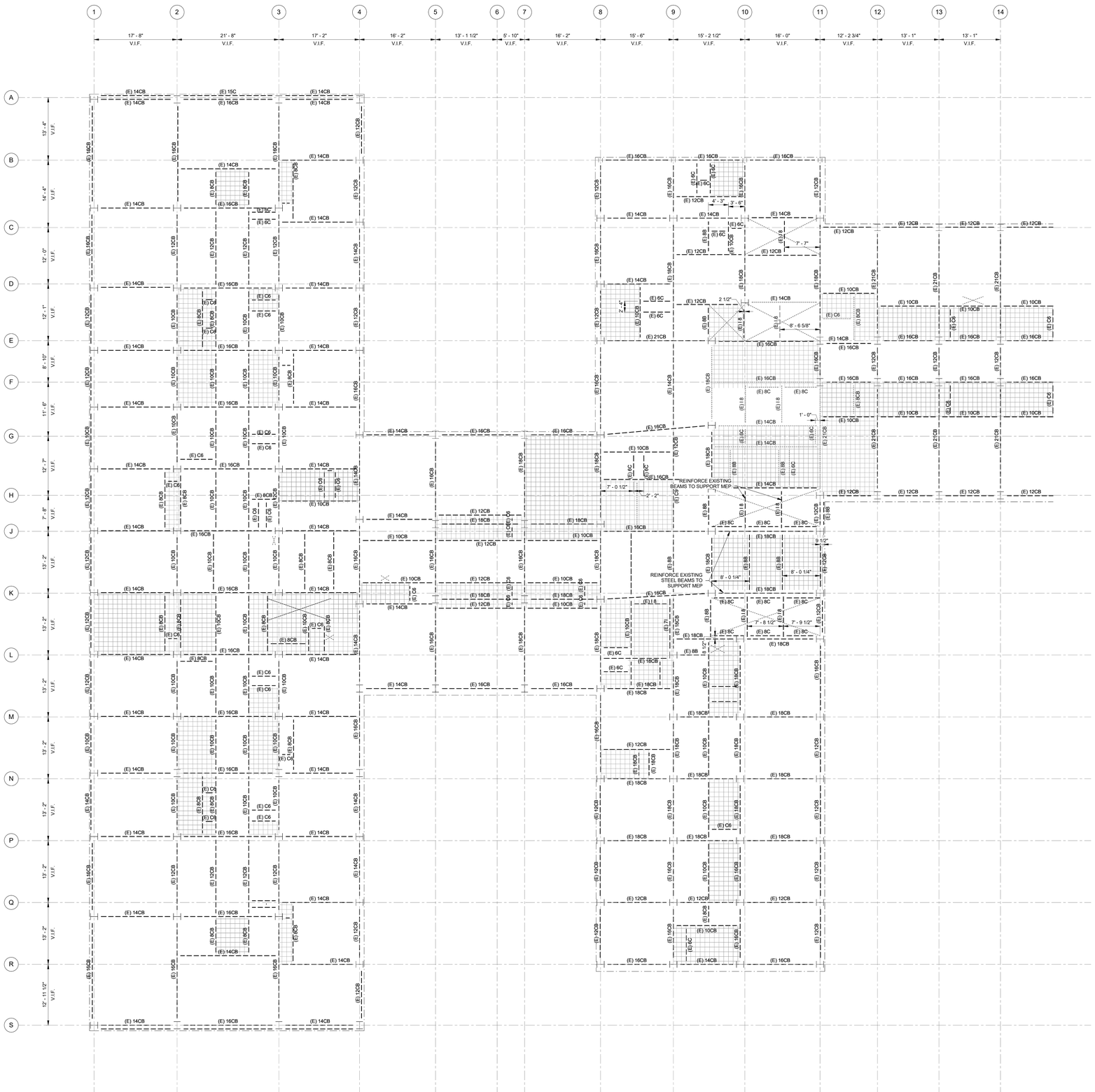

2 / S-741 LEVEL 17 STEEL - PART A
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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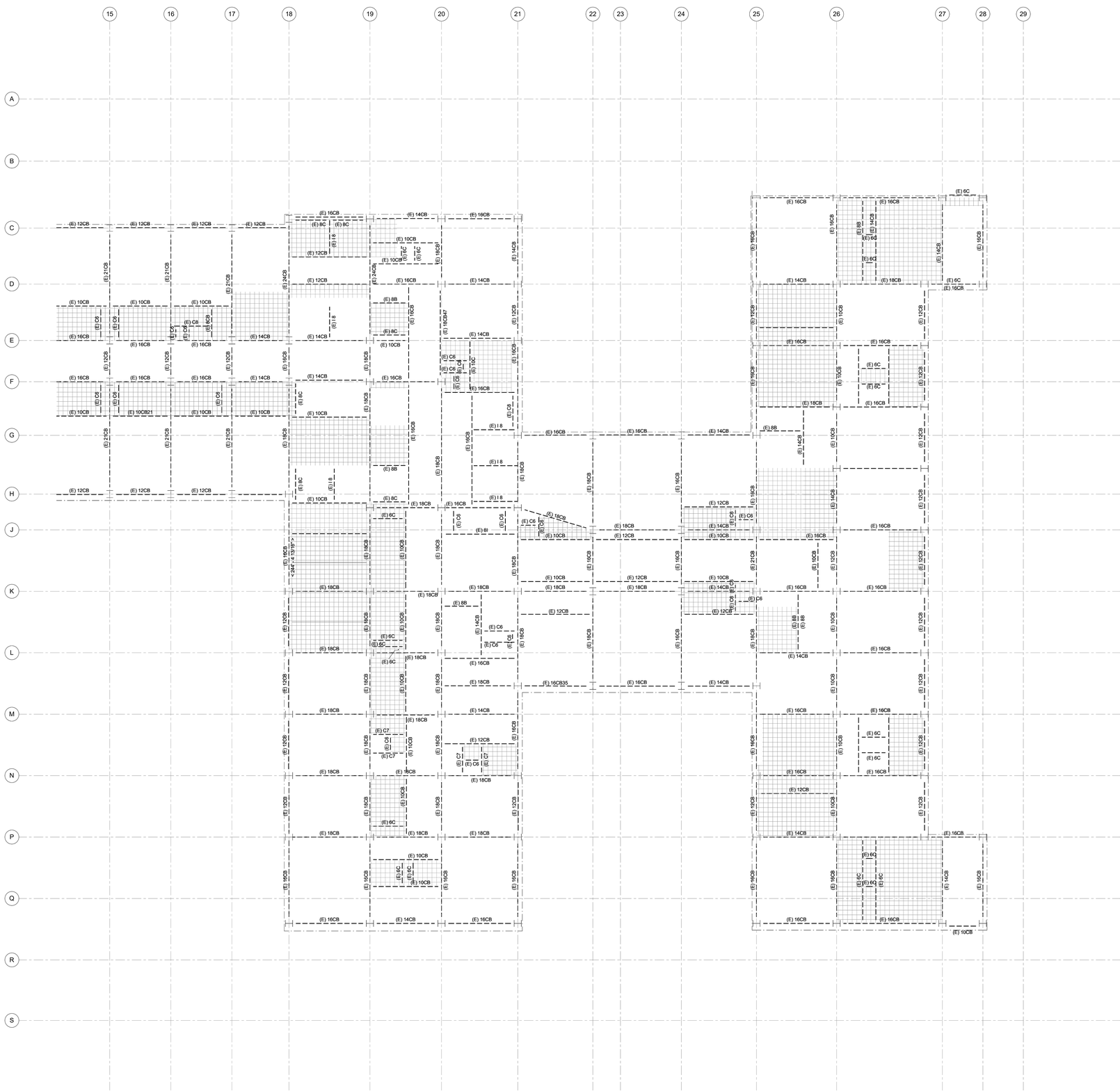

2 LEVEL 17 STEEL - PART B
S-742 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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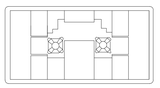

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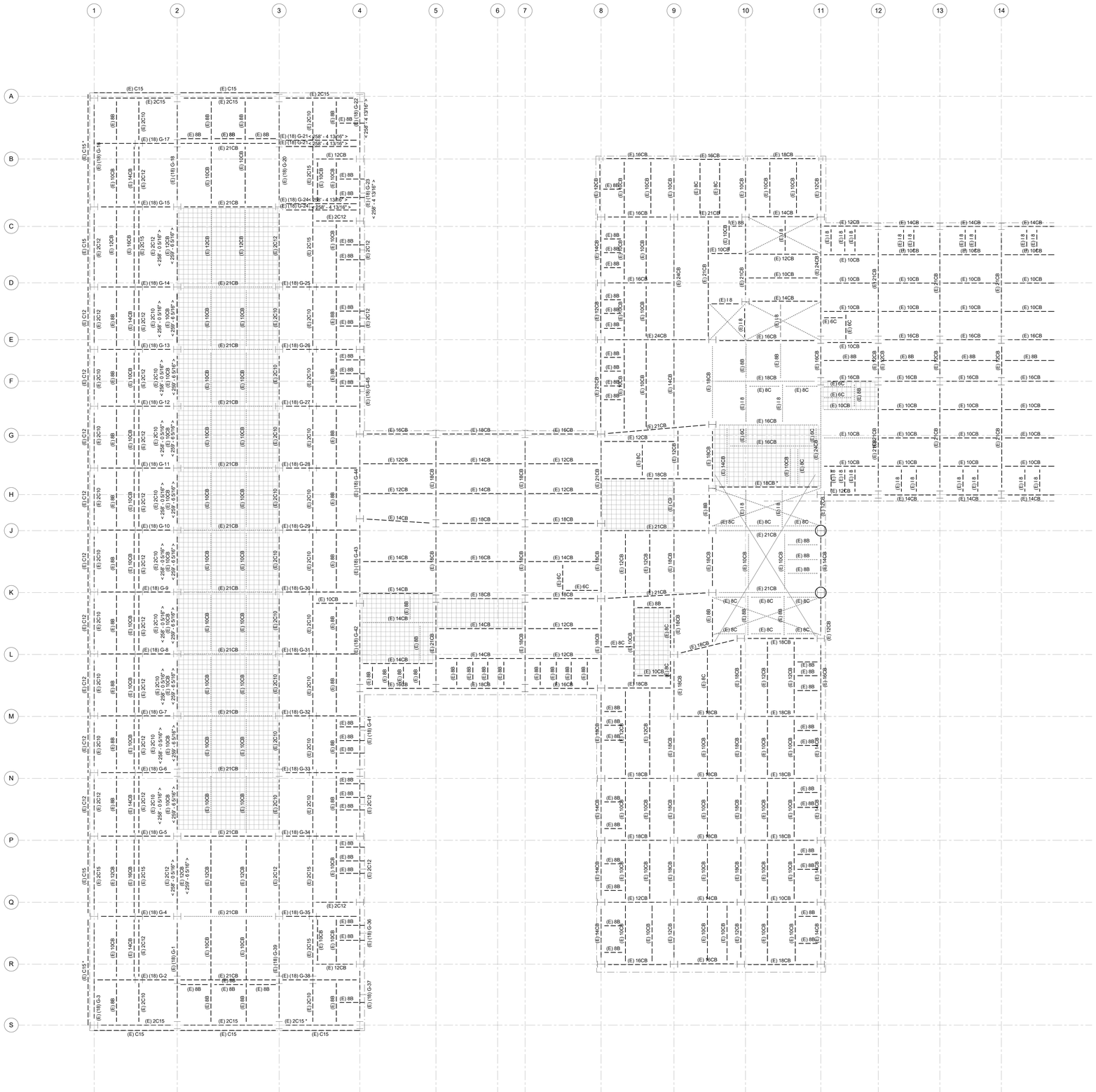

1 S-743 LEVEL 18 STEEL - PART A
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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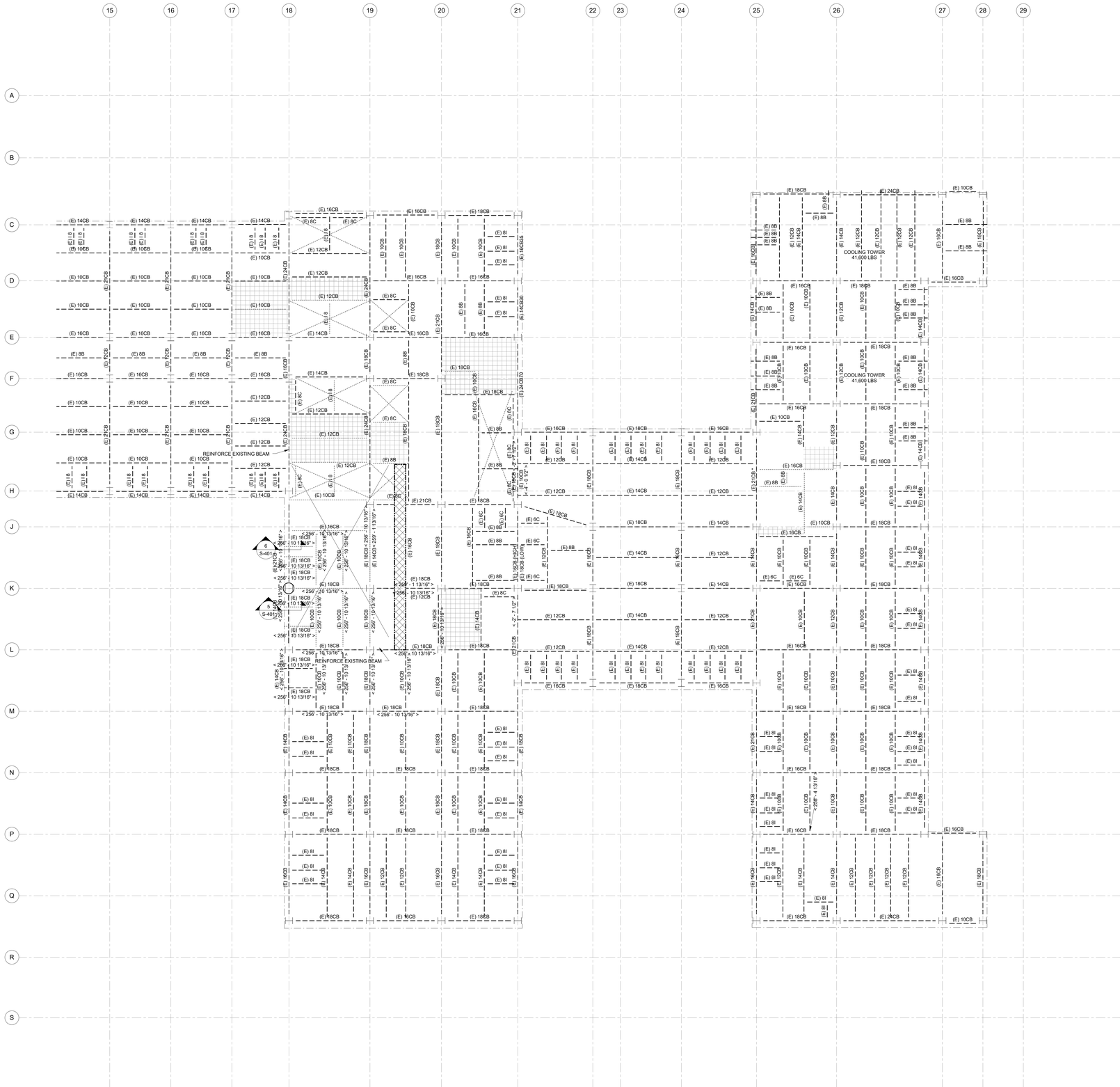

1 S-744 LEVEL 18 STEEL - PART B
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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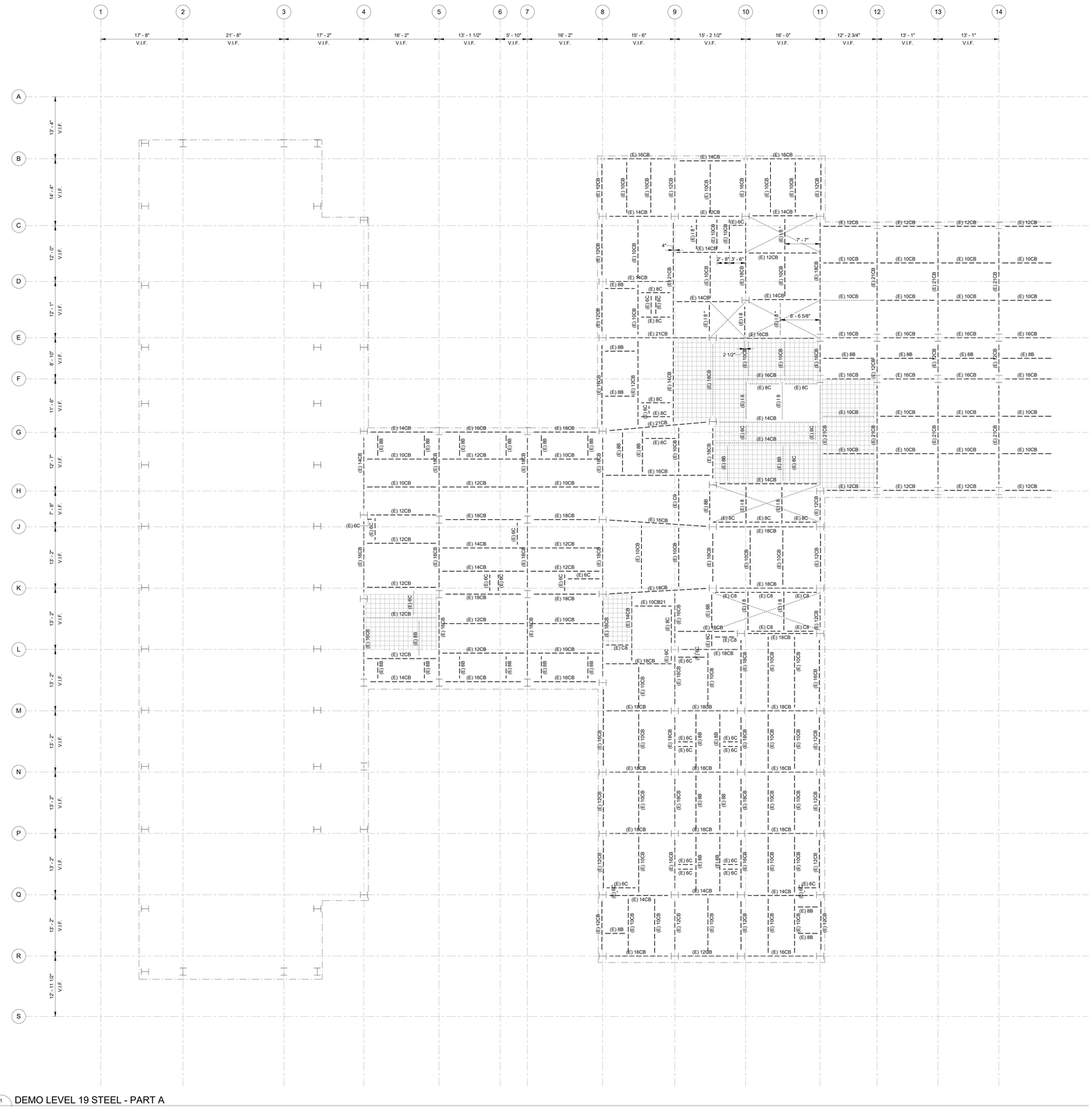

1 S-745 DEMO LEVEL 19 STEEL - PART A
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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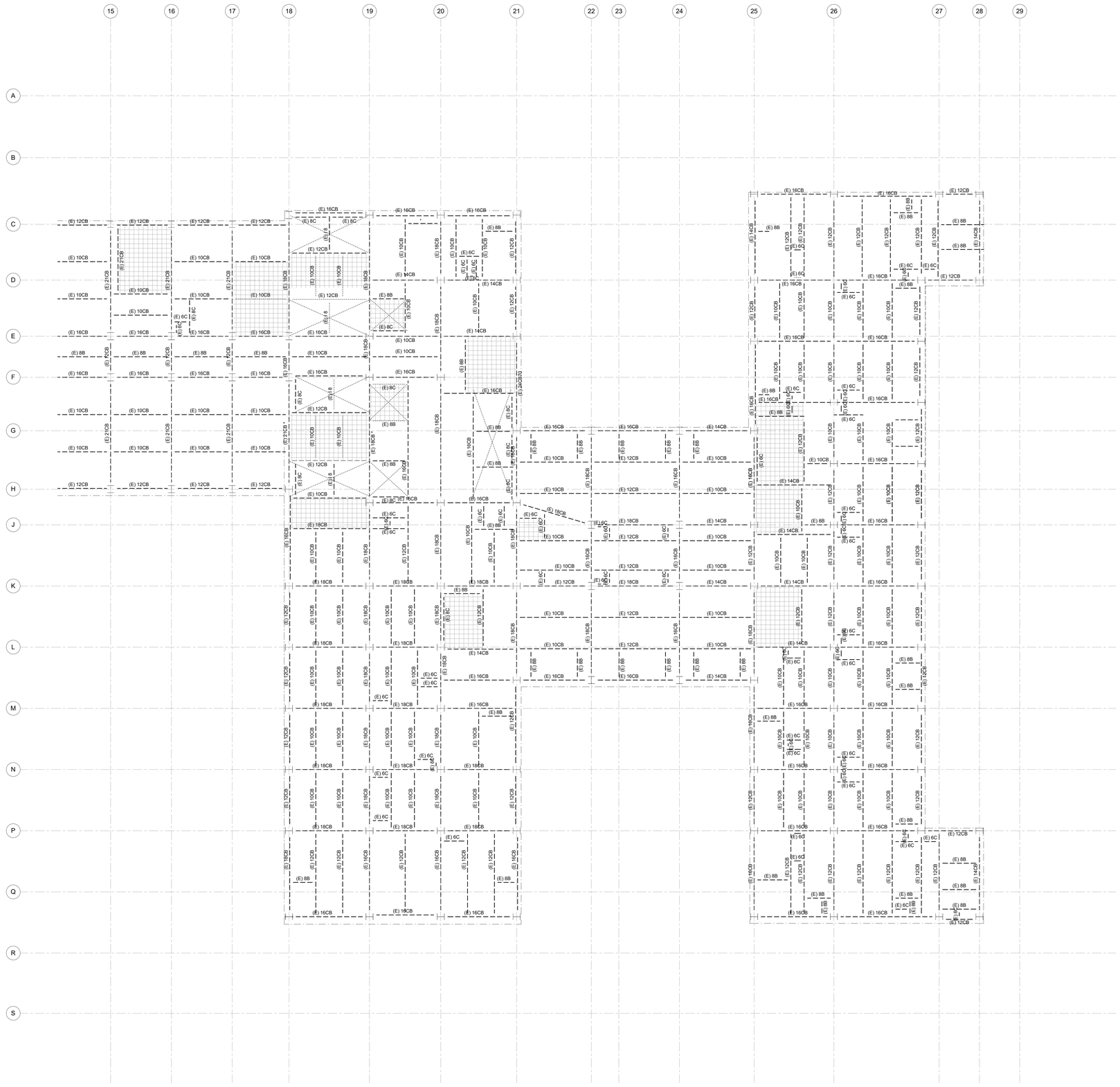

1 S-746 DEMO LEVEL 19 STEEL - PART B
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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LEVEL 19 DEMO - PART PLAN B

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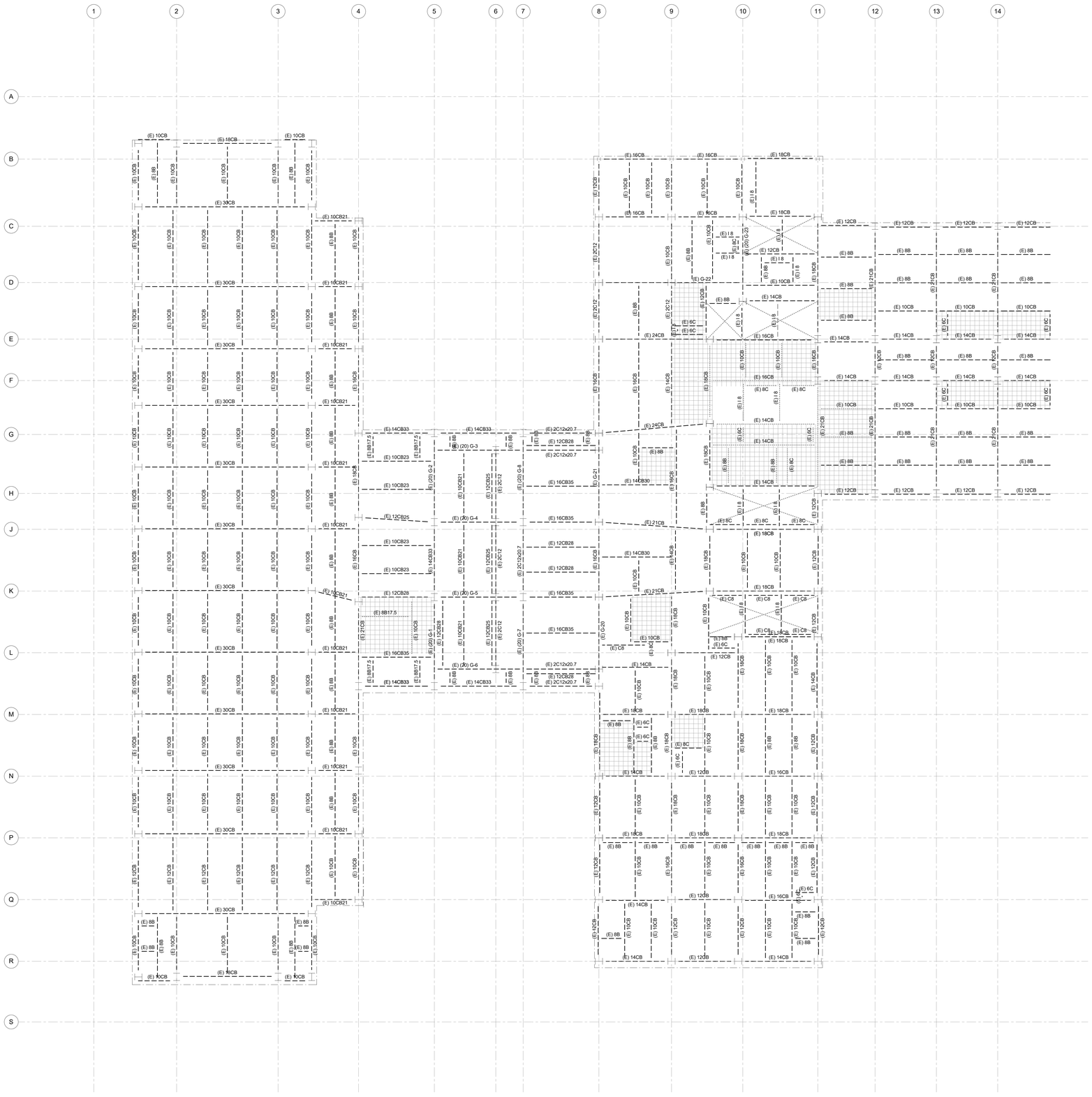

1 S-747 DEMO LEVEL 20 STEEL - PART A
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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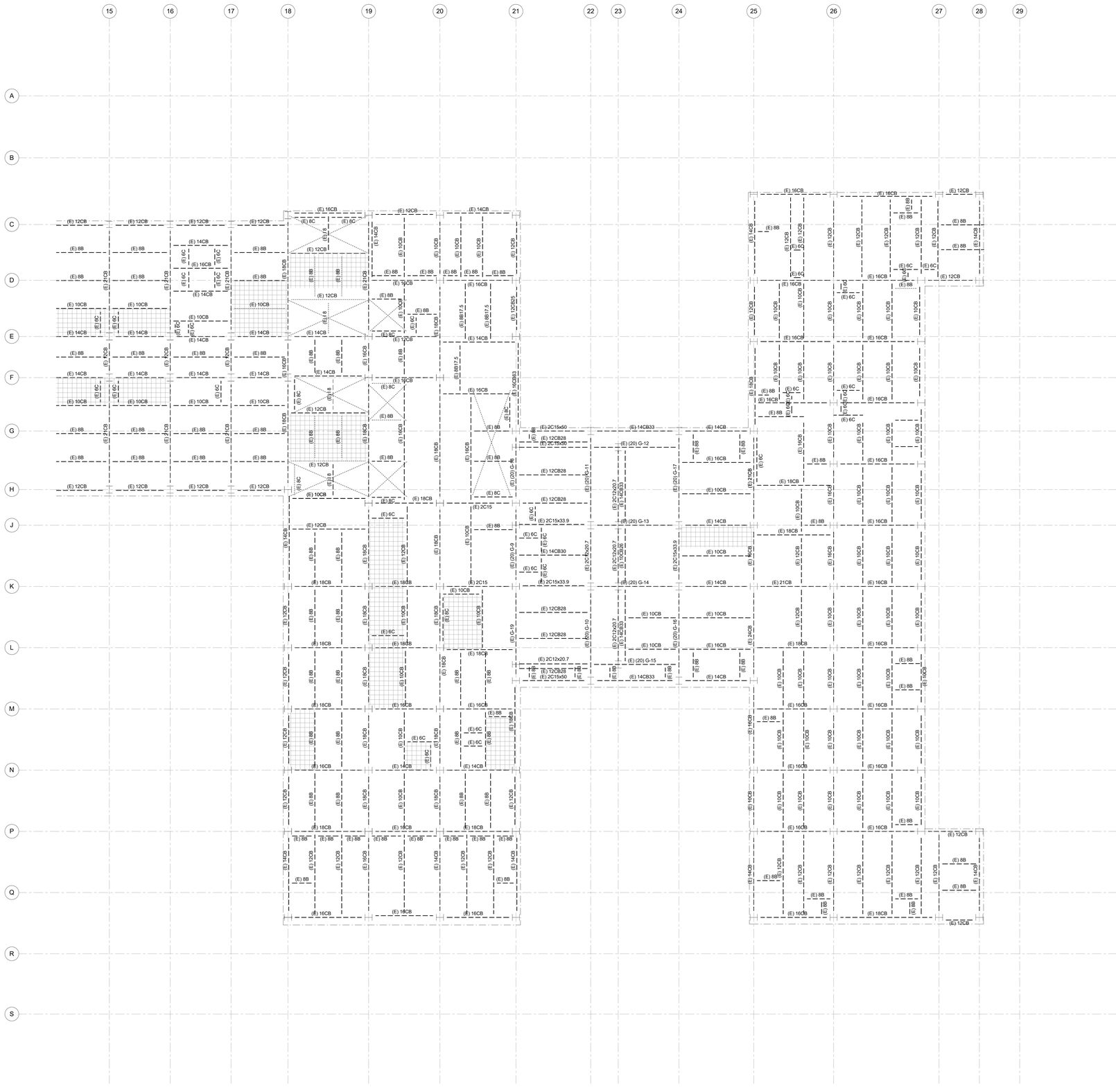

1 DEMO LEVEL 20 STEEL - PART B
S-748 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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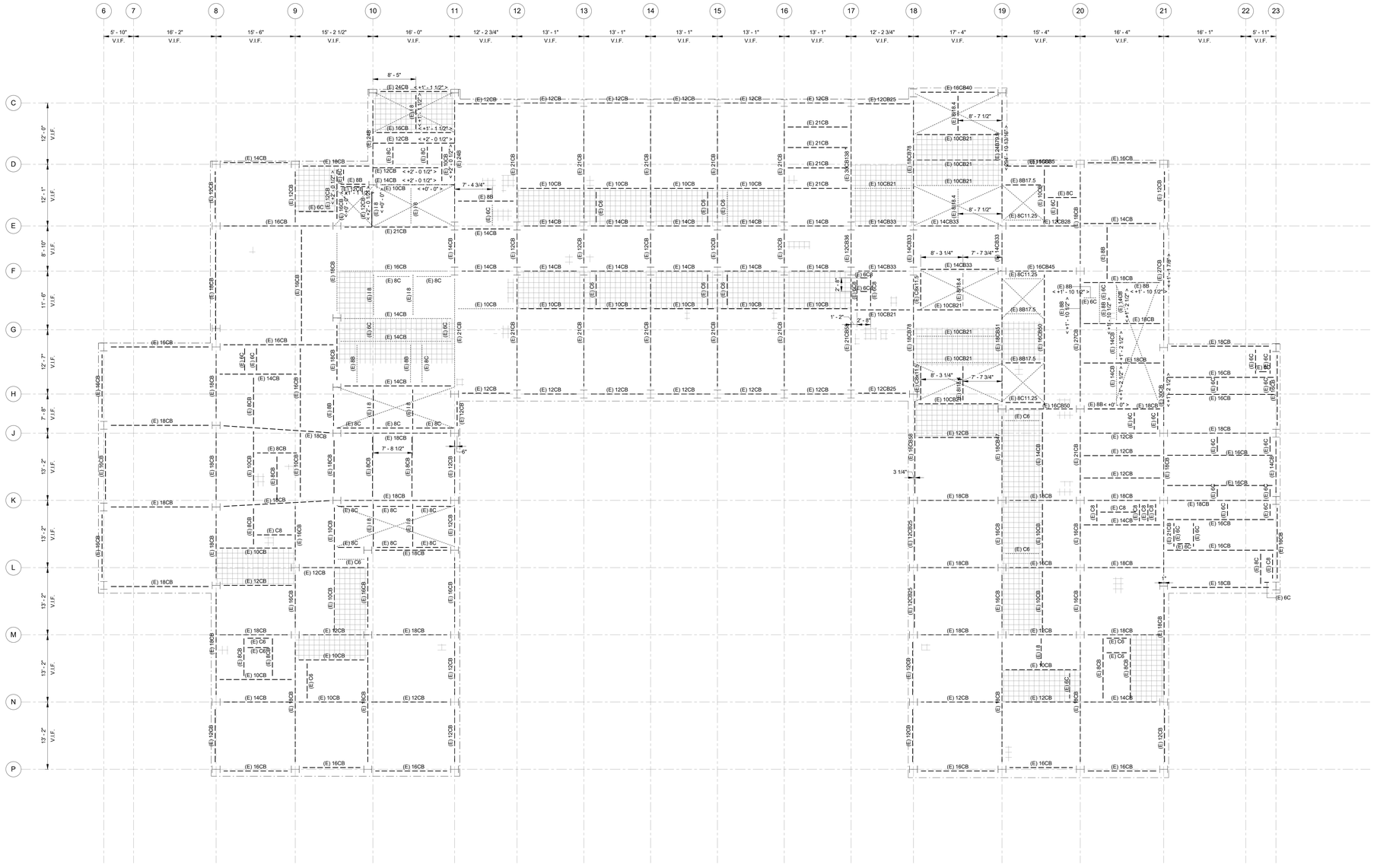

1 S-749 LEVEL 21 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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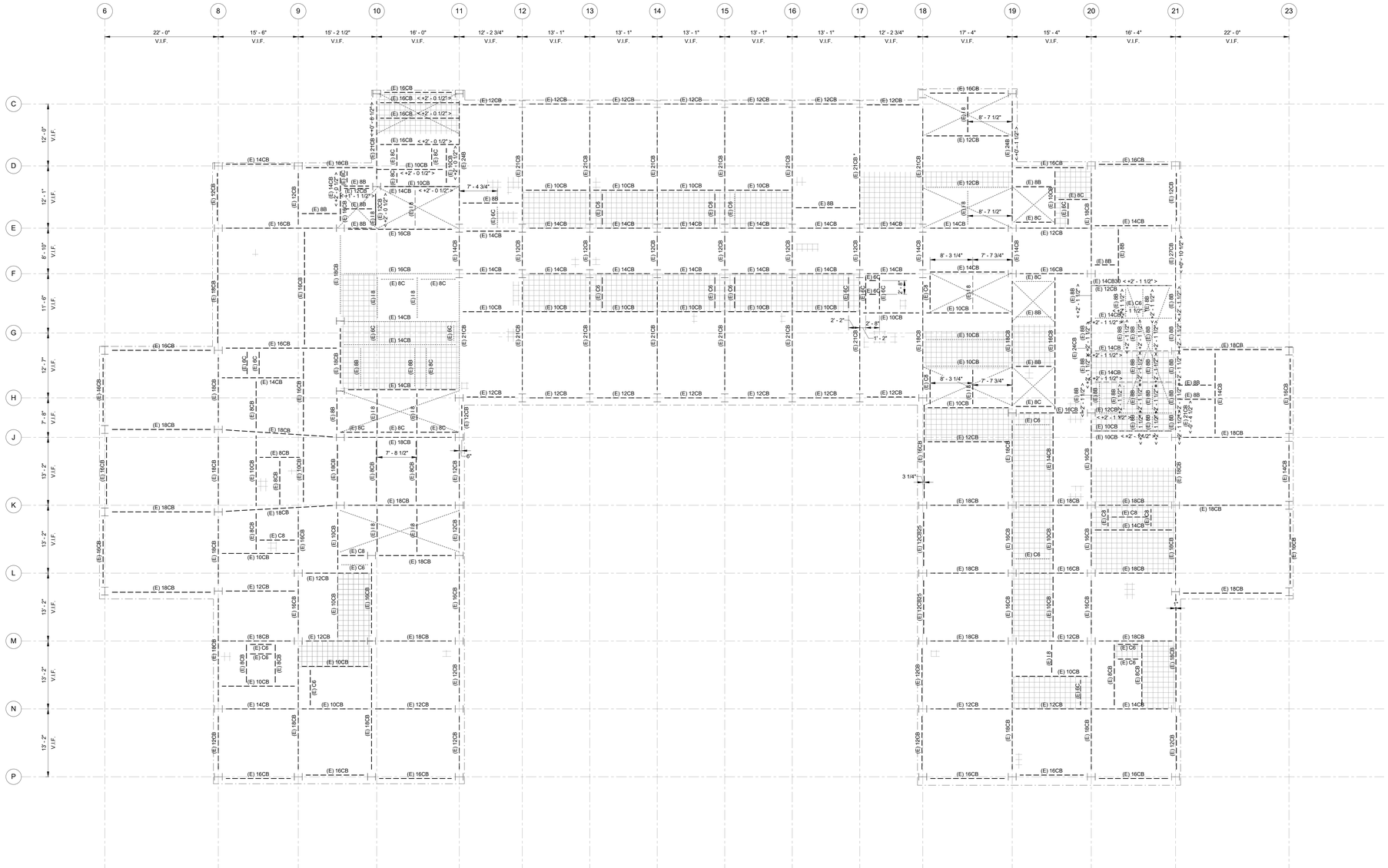

1 LEVEL 22 STEEL - TOWER
S-750 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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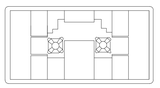

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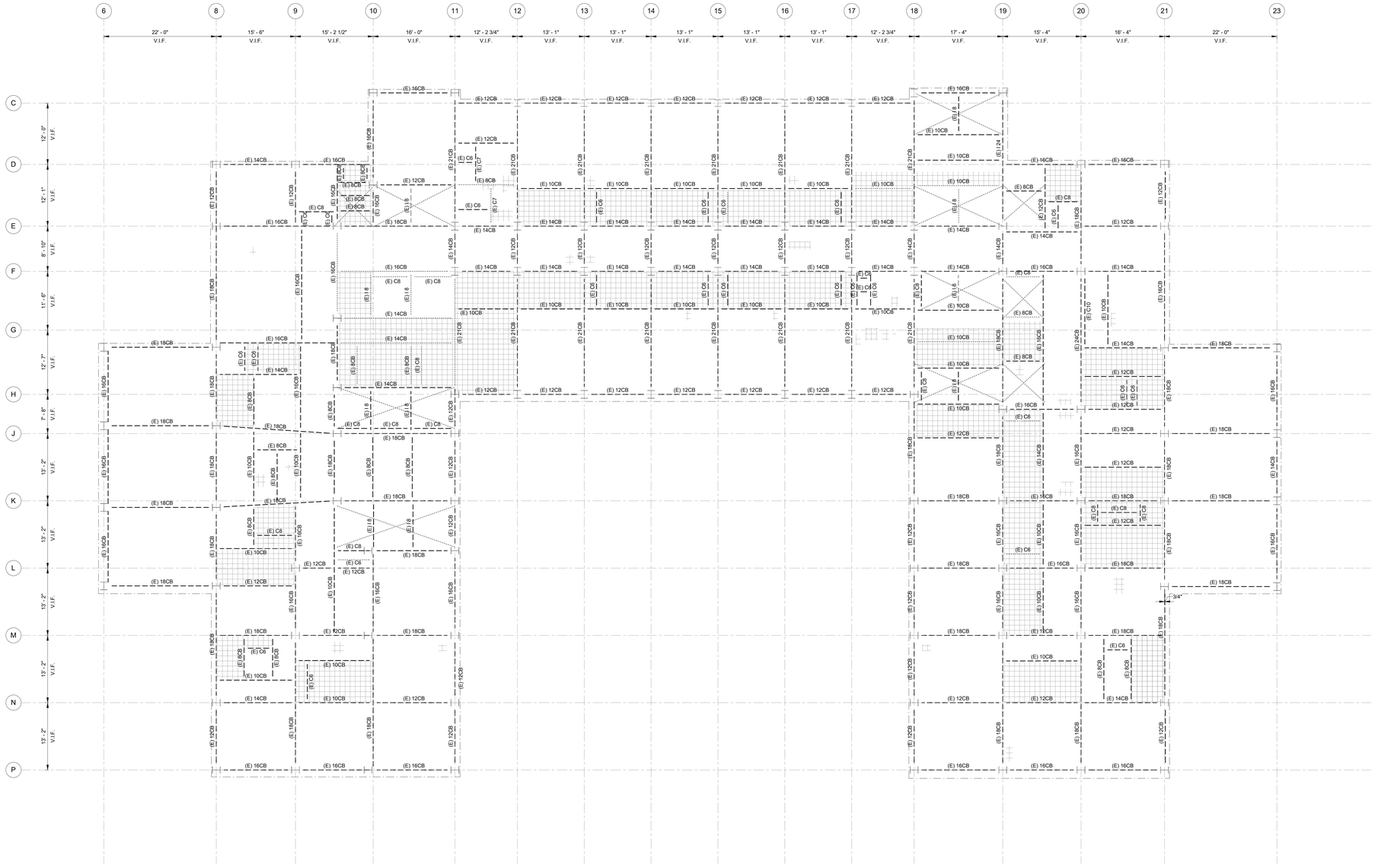

1 LEVEL 23 STEEL - TOWER
S-751 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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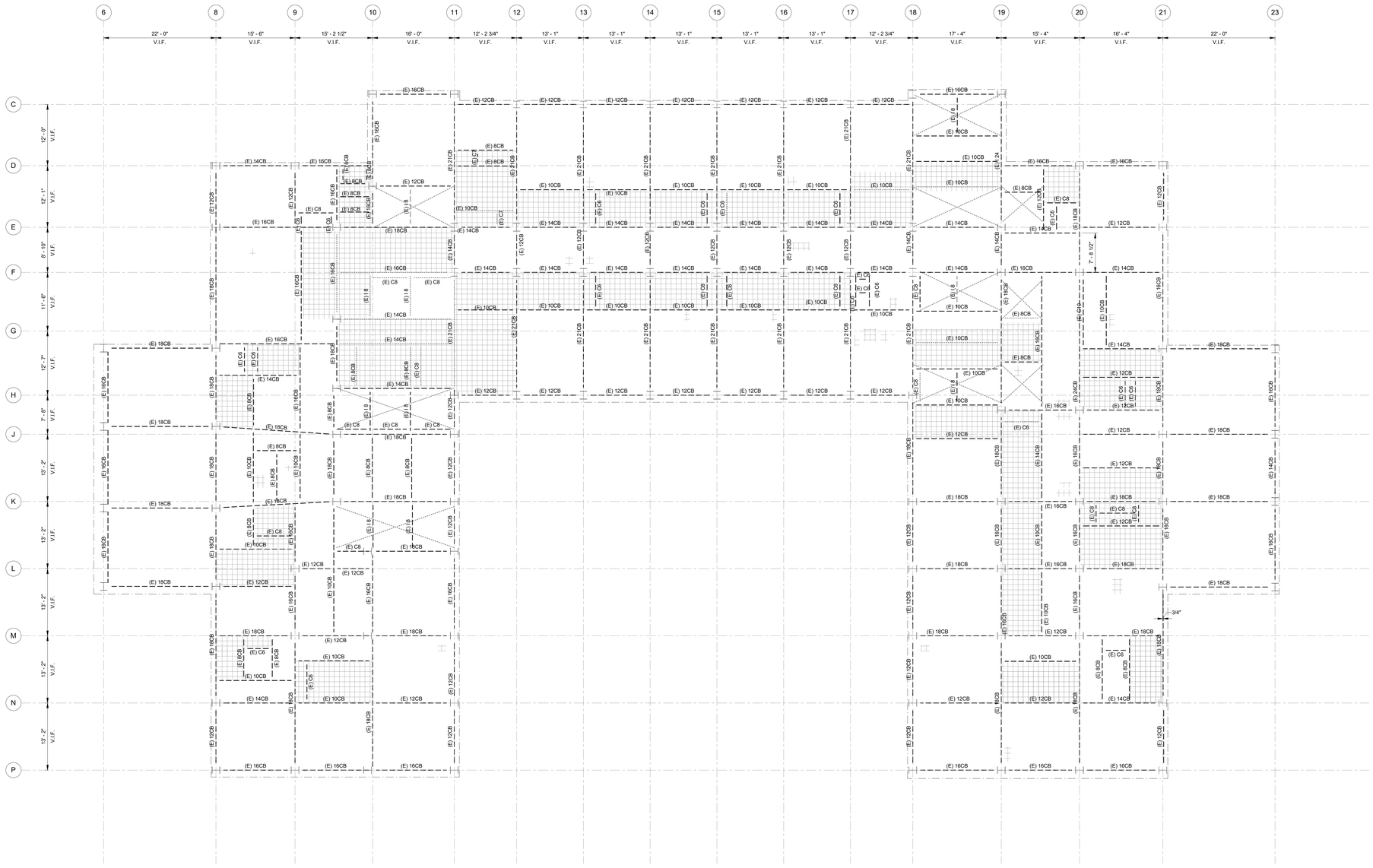

1 S-752 LEVEL 24 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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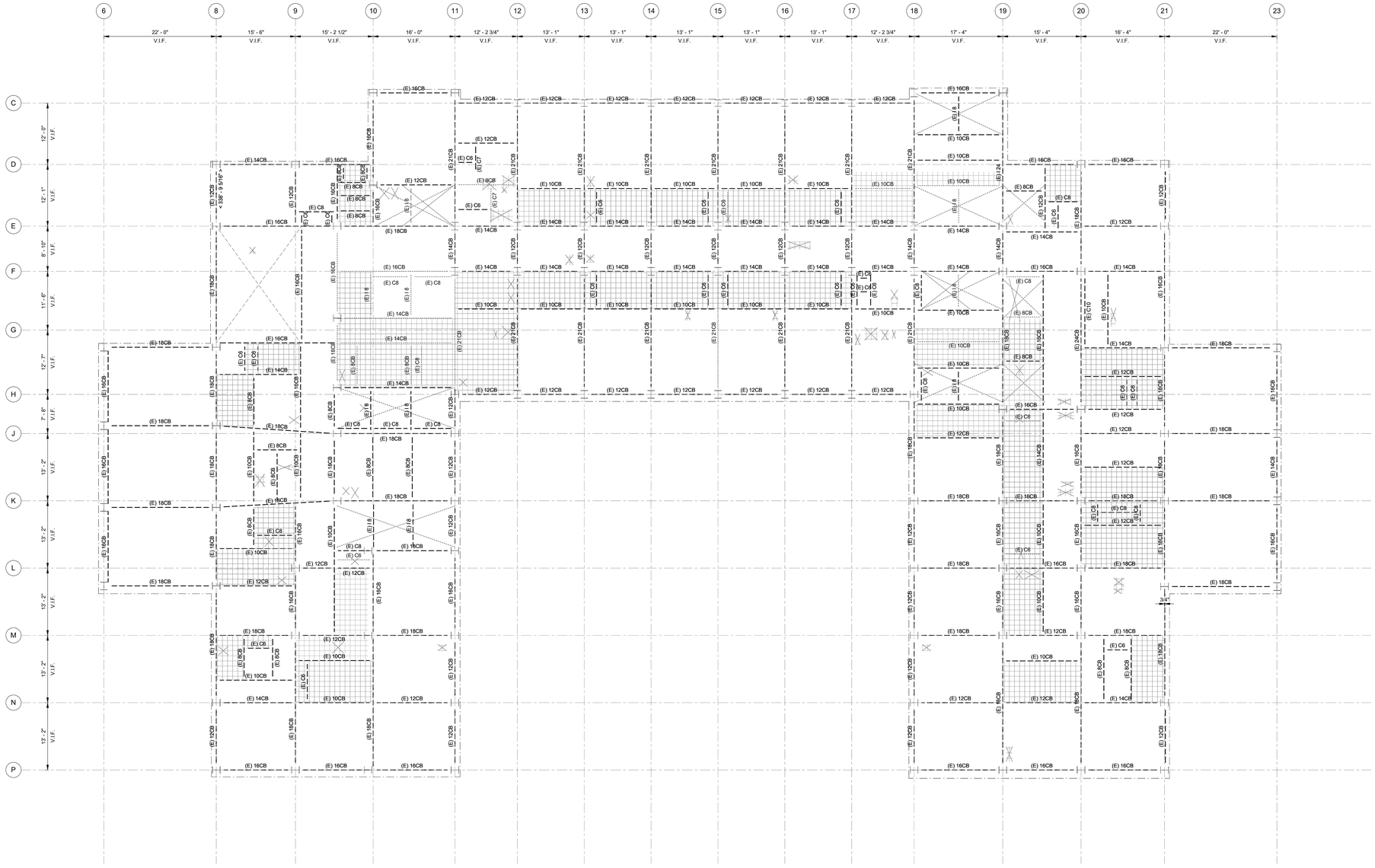

2 S-753 LEVEL 25 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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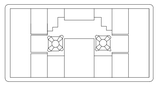

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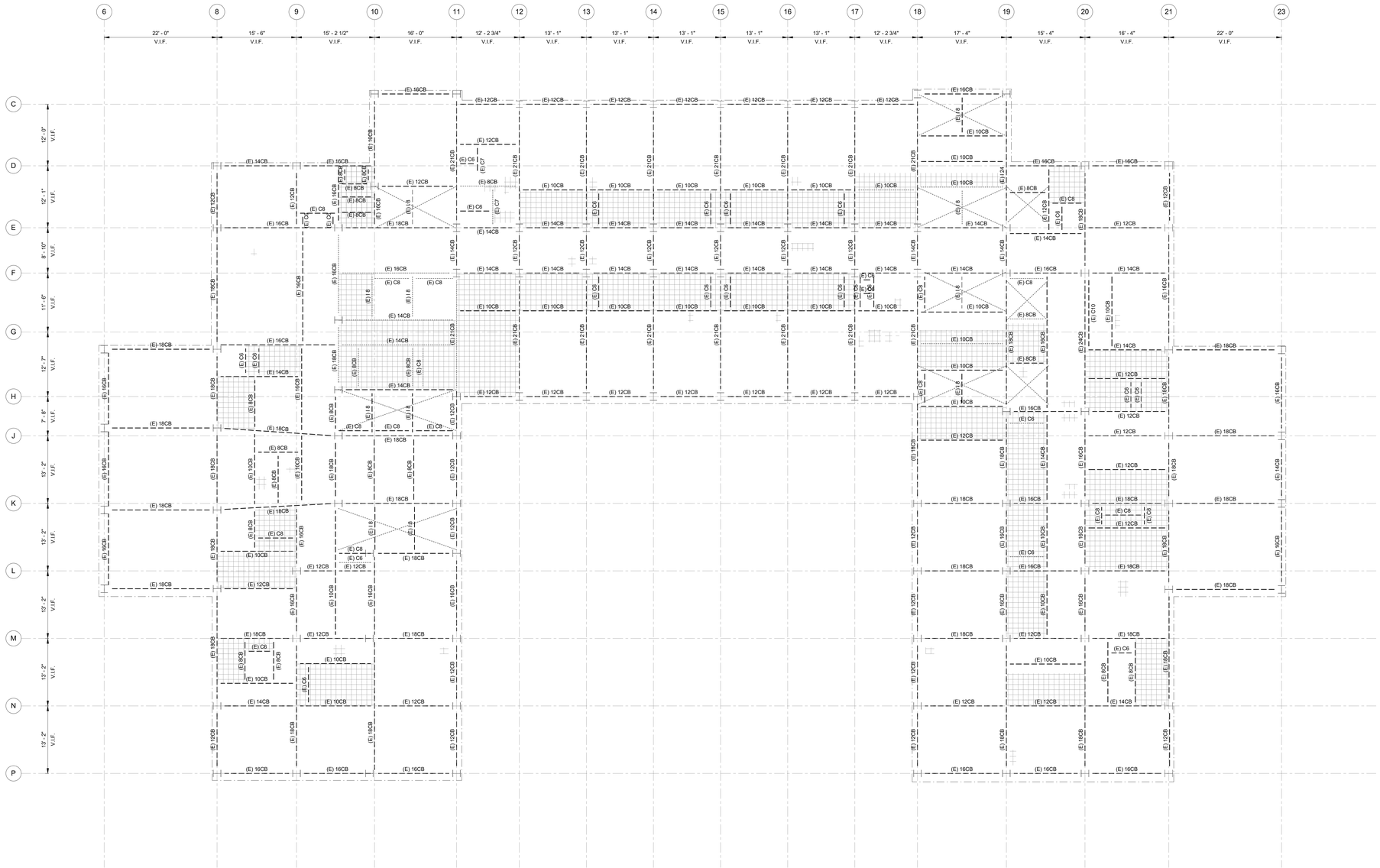

1 S-754 LEVEL 26 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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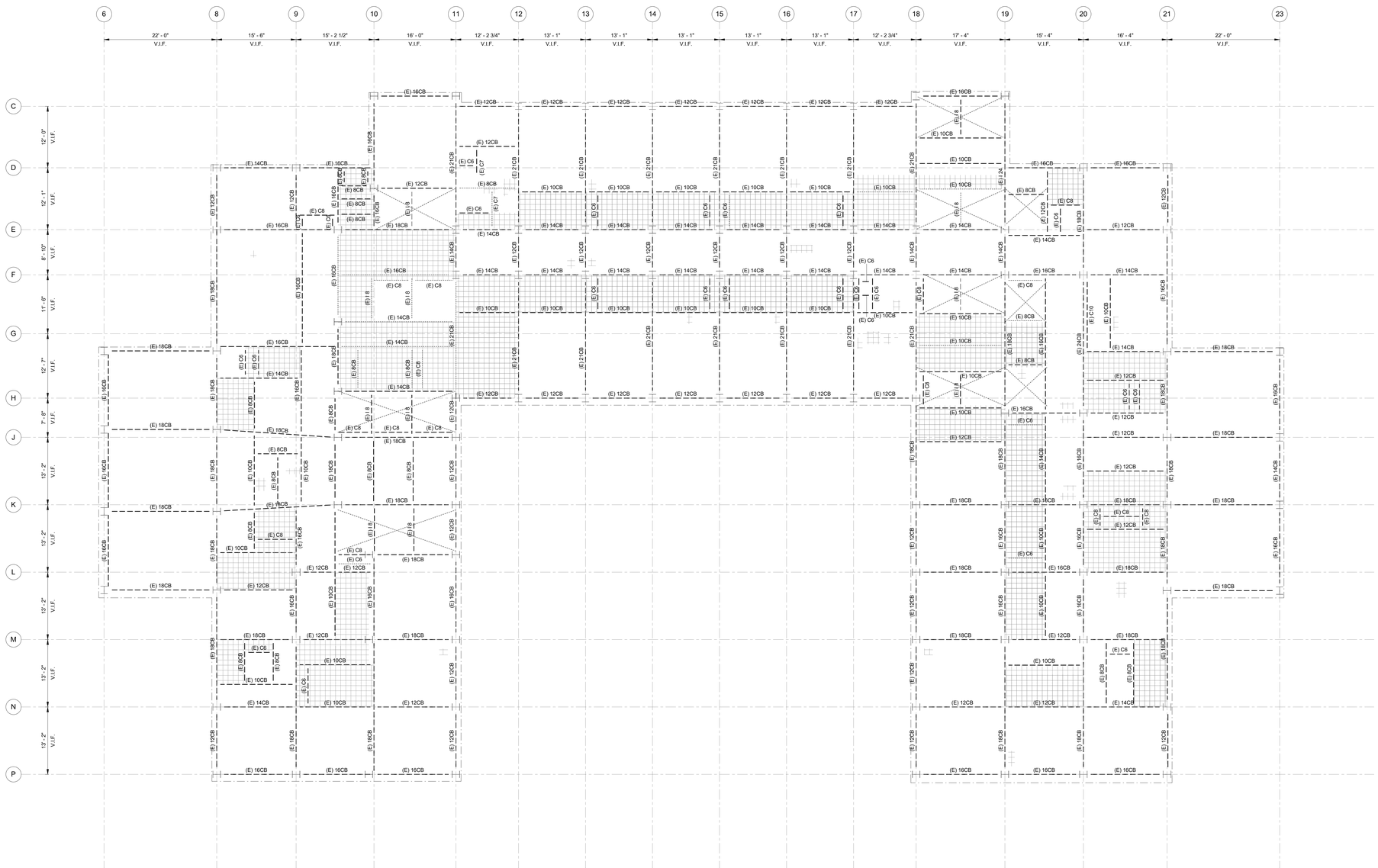

1 S-755 LEVEL 27 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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1	10 FEB 2017	ISSUED TO DOB

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LEVEL 27 DEMO PLAN

B-SCAN - DRAWING NUMBER

S-755.00

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72 OF 87

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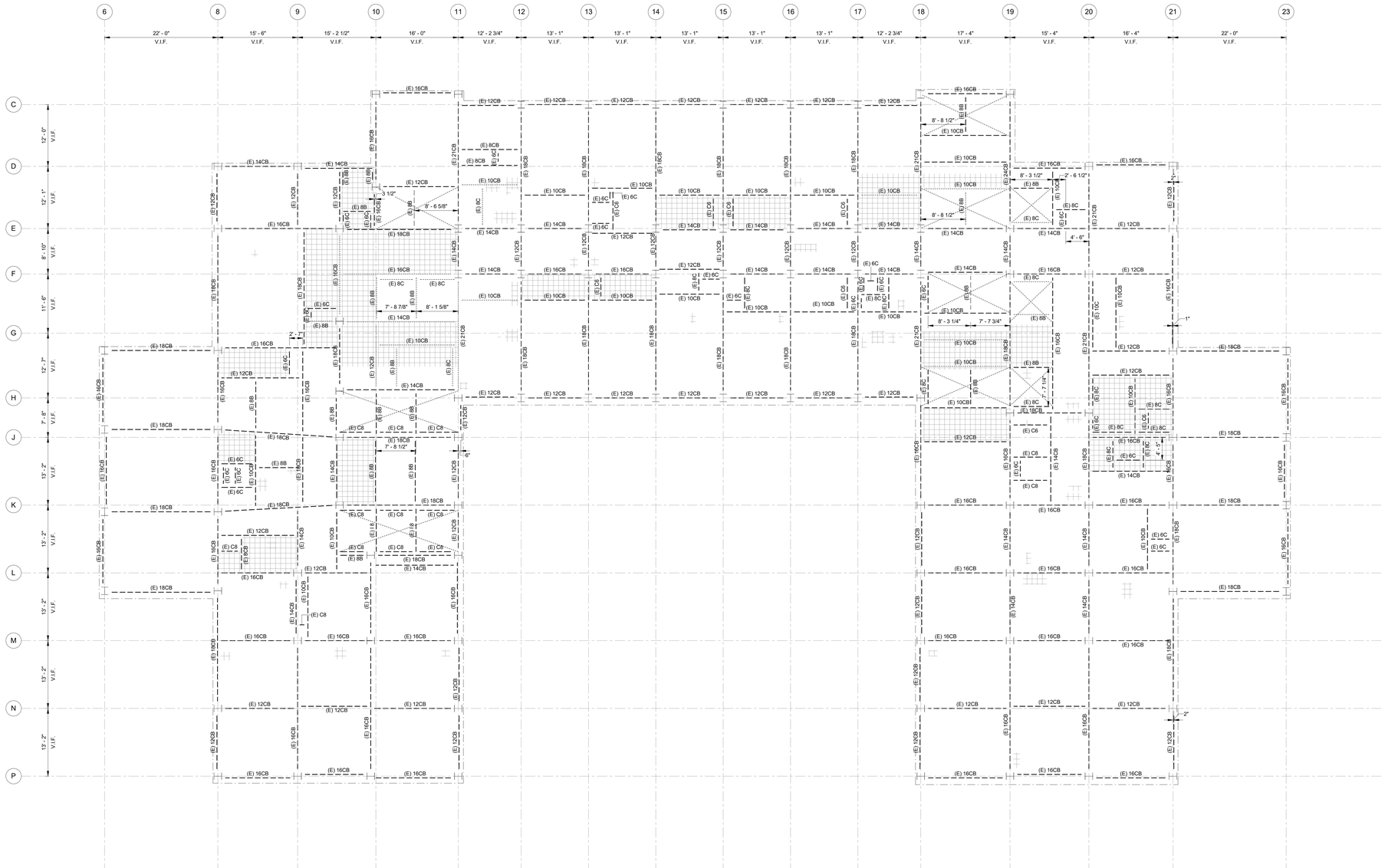

1 LEVEL 28 STEEL - TOWER
S-756 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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3. SEE ARCHITECTRUAL, MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION DRAWINGS FOR ALL OTHER DEMOLITION SCOPE NOT NOTED IN STRUCTURAL DEMOLITION DRAWINGS
4. CONTRACTOR SHALL ADHERE TO ANY REQUIREMENTS REGARDING NOISE, DUST-CONTROL, PEDESTRIAN PROTECTION AND SIDEWALK ACCESS STIPULATED BY THE DOB OR ANY ENTITY HAVING JURISDICTION

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No. 081677
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LEVEL 28 DEMO PLAN

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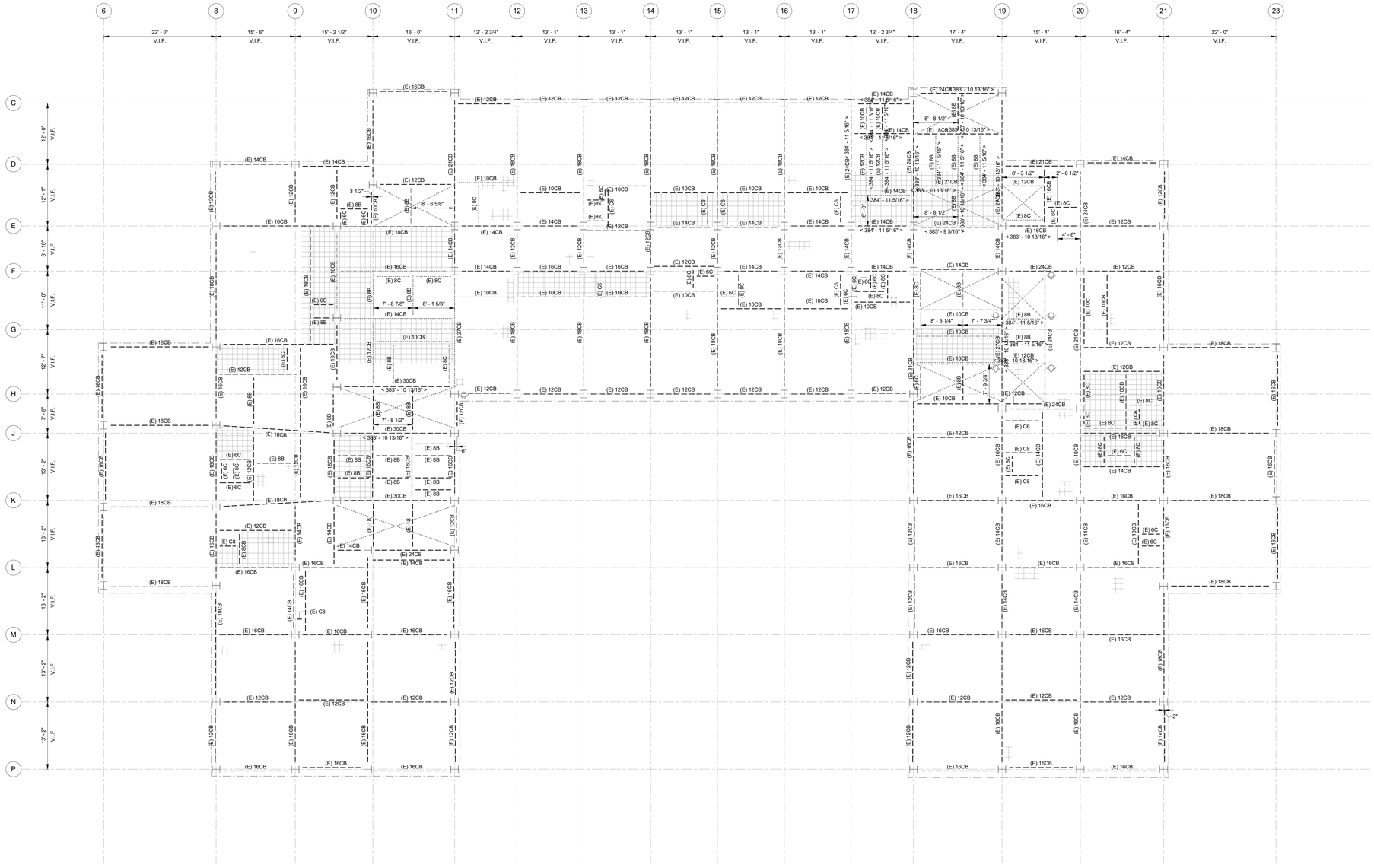

1 LEVEL 29 STEEL - TOWER
S-757 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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LEVEL 29 DEMO PLAN

B-SCAN - DRAWING NUMBER

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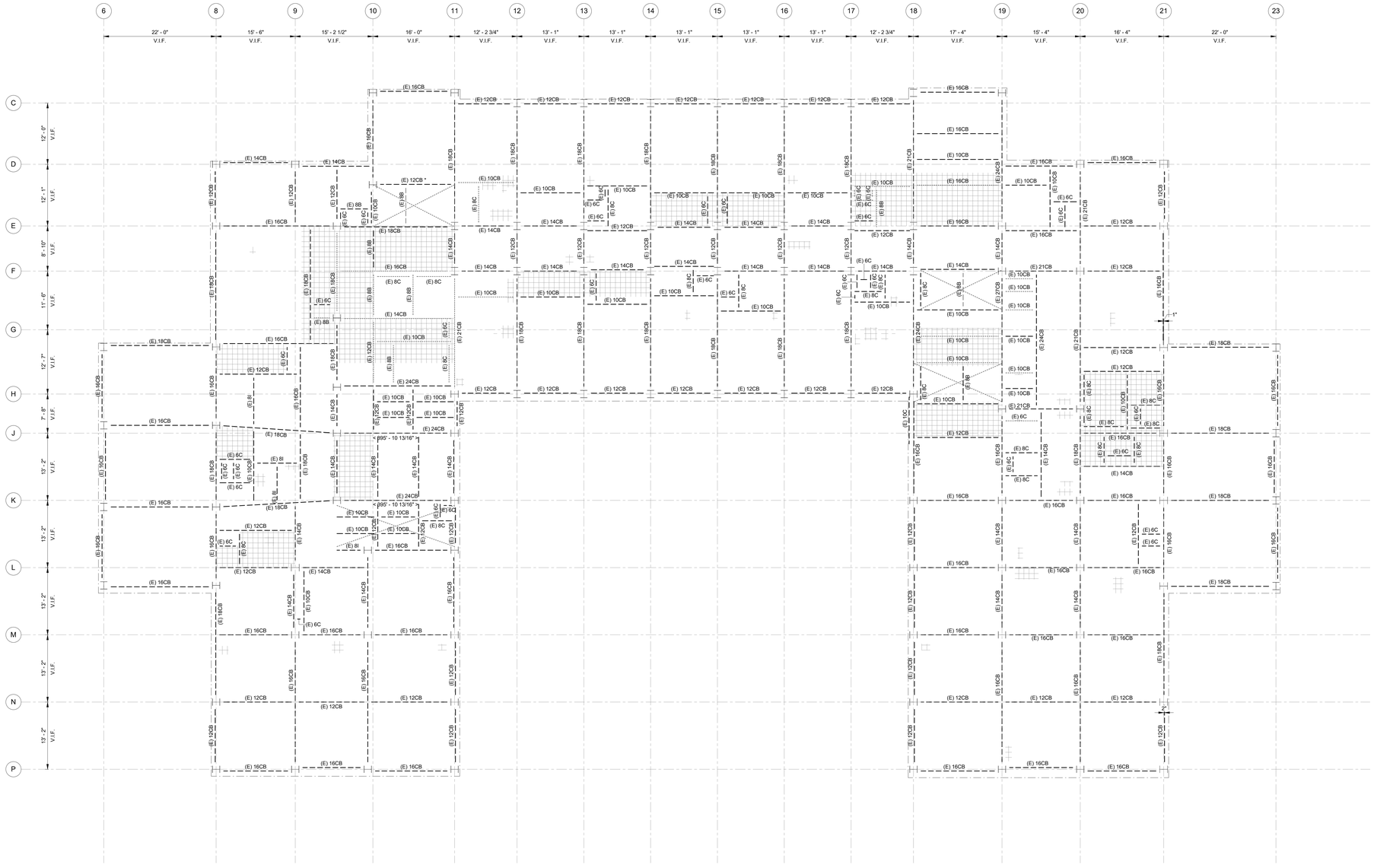

1 LEVEL 30 STEEL - TOWER
S-758 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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LICENSED PROFESSIONAL ENGINEER
105,081(E)

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LEVEL 30 DEMO PLAN

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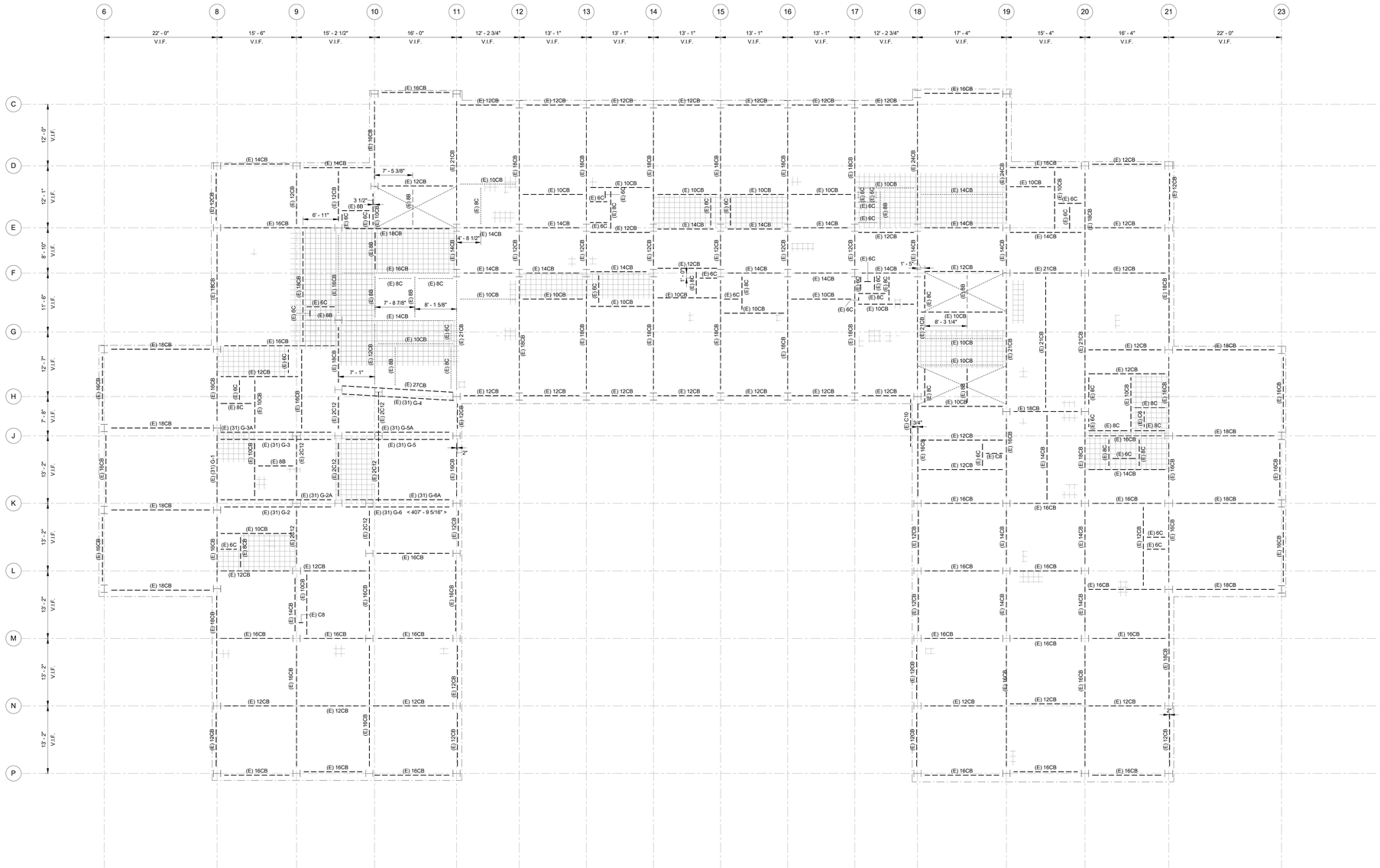

1 S-759 LEVEL 31 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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LICENSED PROFESSIONAL ENGINEER

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LEVEL 31 DEMO PLAN

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PAGE NUMBER

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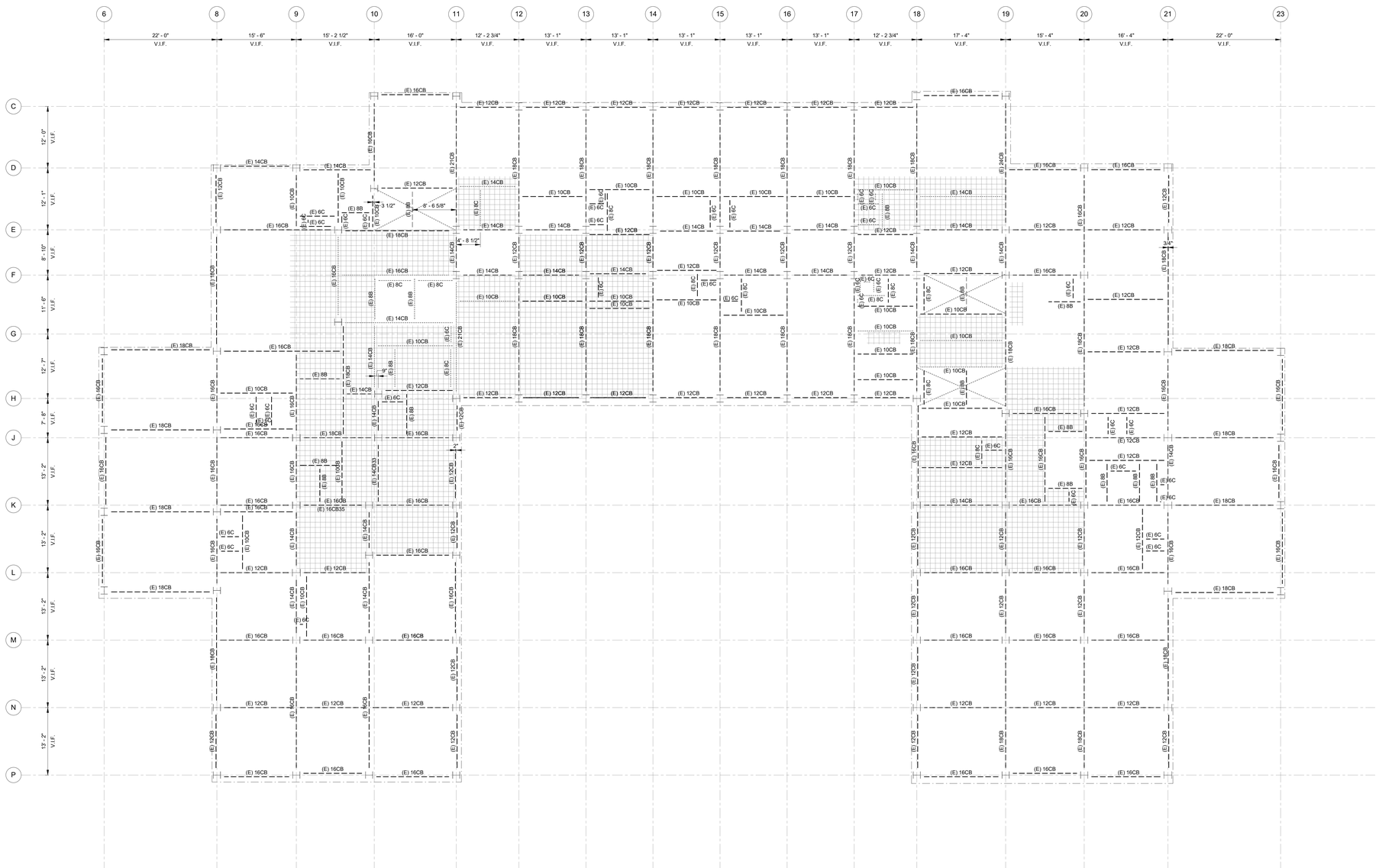

1 LEVEL 32 STEEL - TOWER
S-760 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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LEVEL 32 DEMO PLAN

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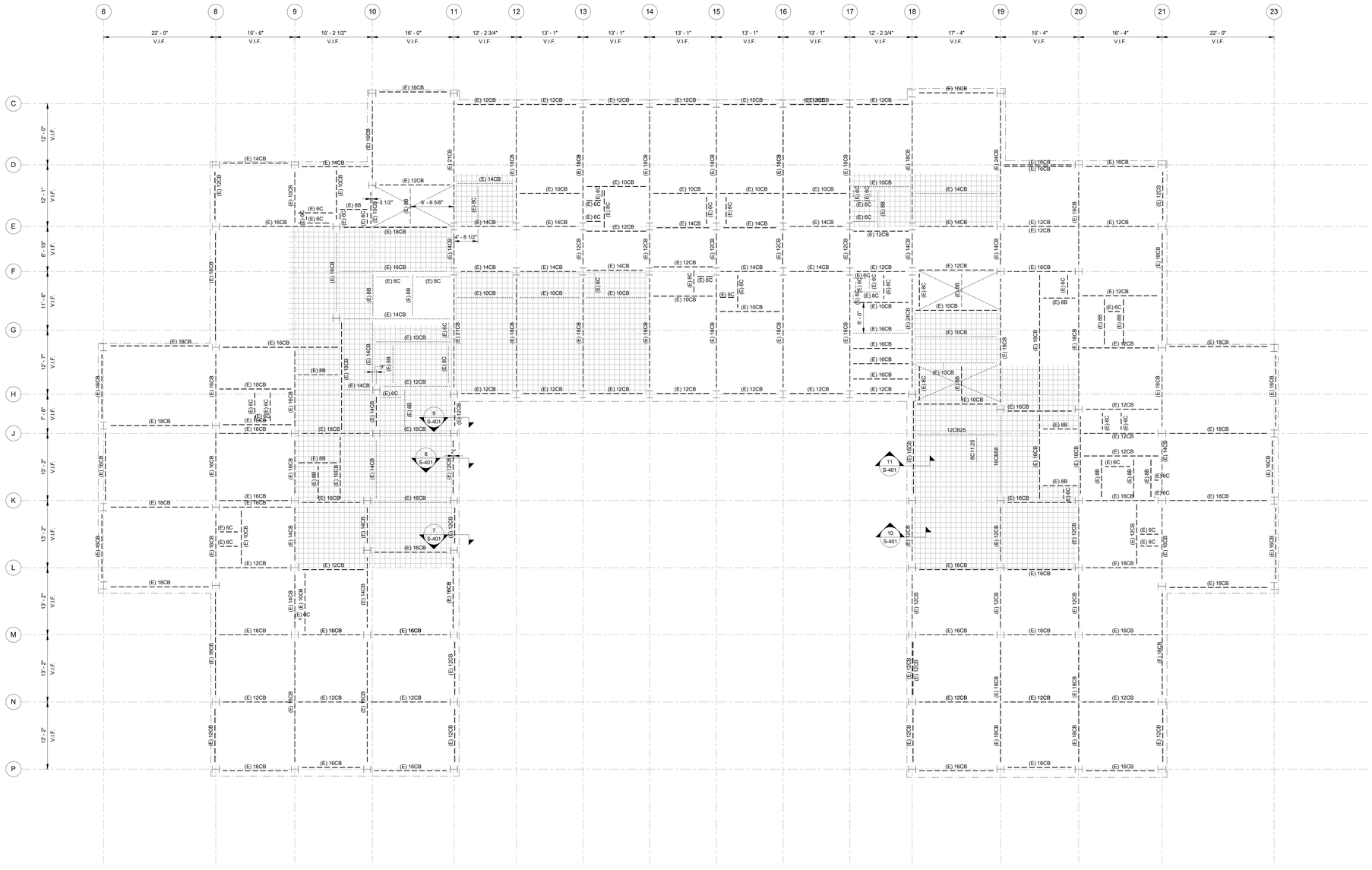

1 S-761 LEVEL 33 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

1. THE CONTRACTOR SHALL RETAIN A PROFESSIONAL ENGINEER (PE) LICENSED IN THE STATE OF NEW YORK TO PREPARE SPECIFIC MEANS AND METHODS DRAWINGS THAT INDICATE SITE LOGISTICS, TEMPORARY SHORING AND BRACING (AS REQUIRED), SEQUENCING, AND ALL OTHER NECESSARY INFORMATION TO COMPLETE THE WORK NOTED. THESE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR RECORD AND TO THE DOB FOR PERMIT, AS REQUIRED
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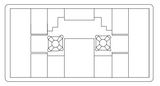

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NO.	DATE	DESCRIPTION
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LEVEL 33 DEMO PLAN

B-SCAN - DRAWING NUMBER

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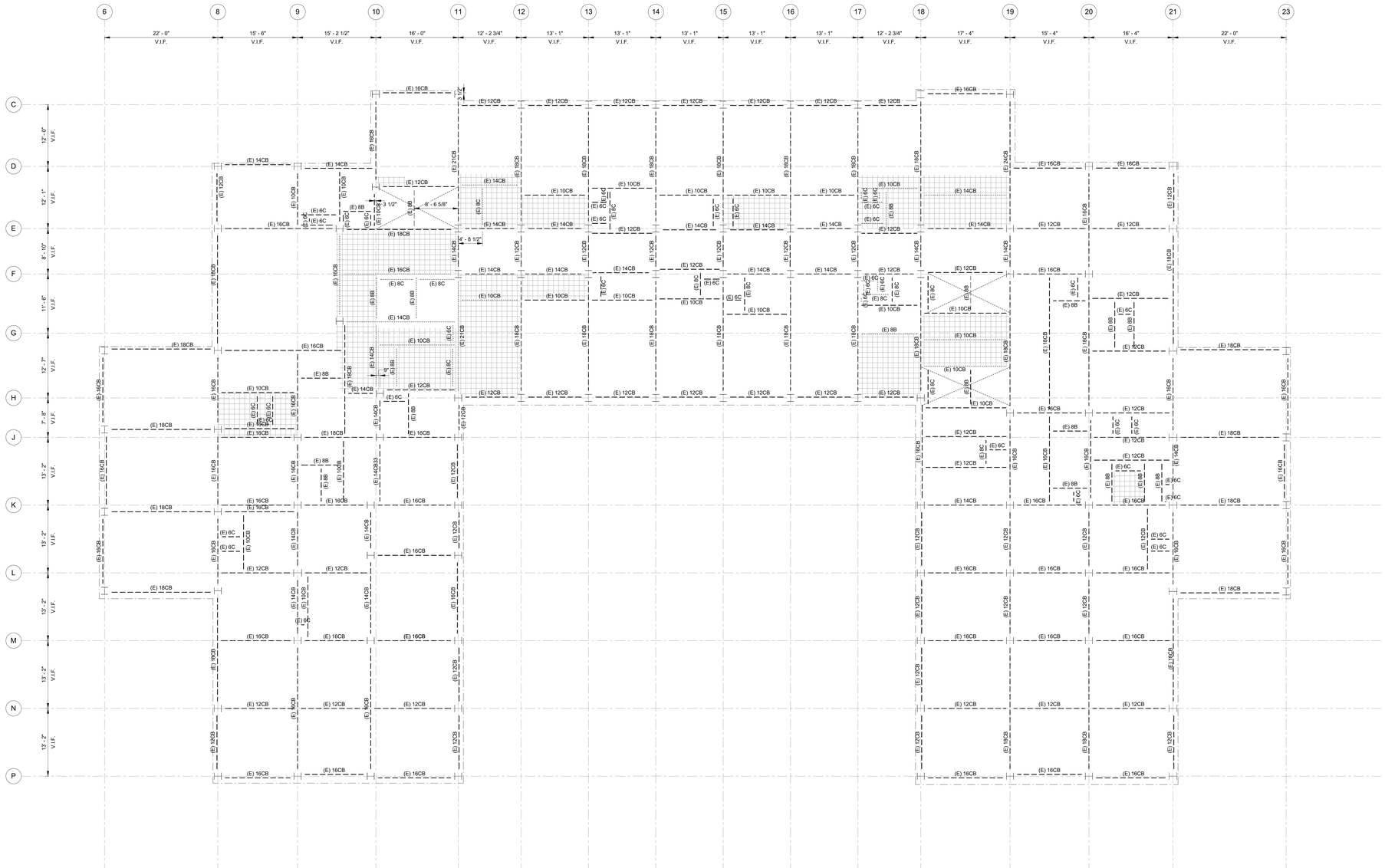

1 LEVEL 34 STEEL - TOWER
S-762 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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STATE OF NEW YORK
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LICENSED PROFESSIONAL ENGINEER

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LEVEL 34 DEMO PLAN

B-SCAN - DRAWING NUMBER

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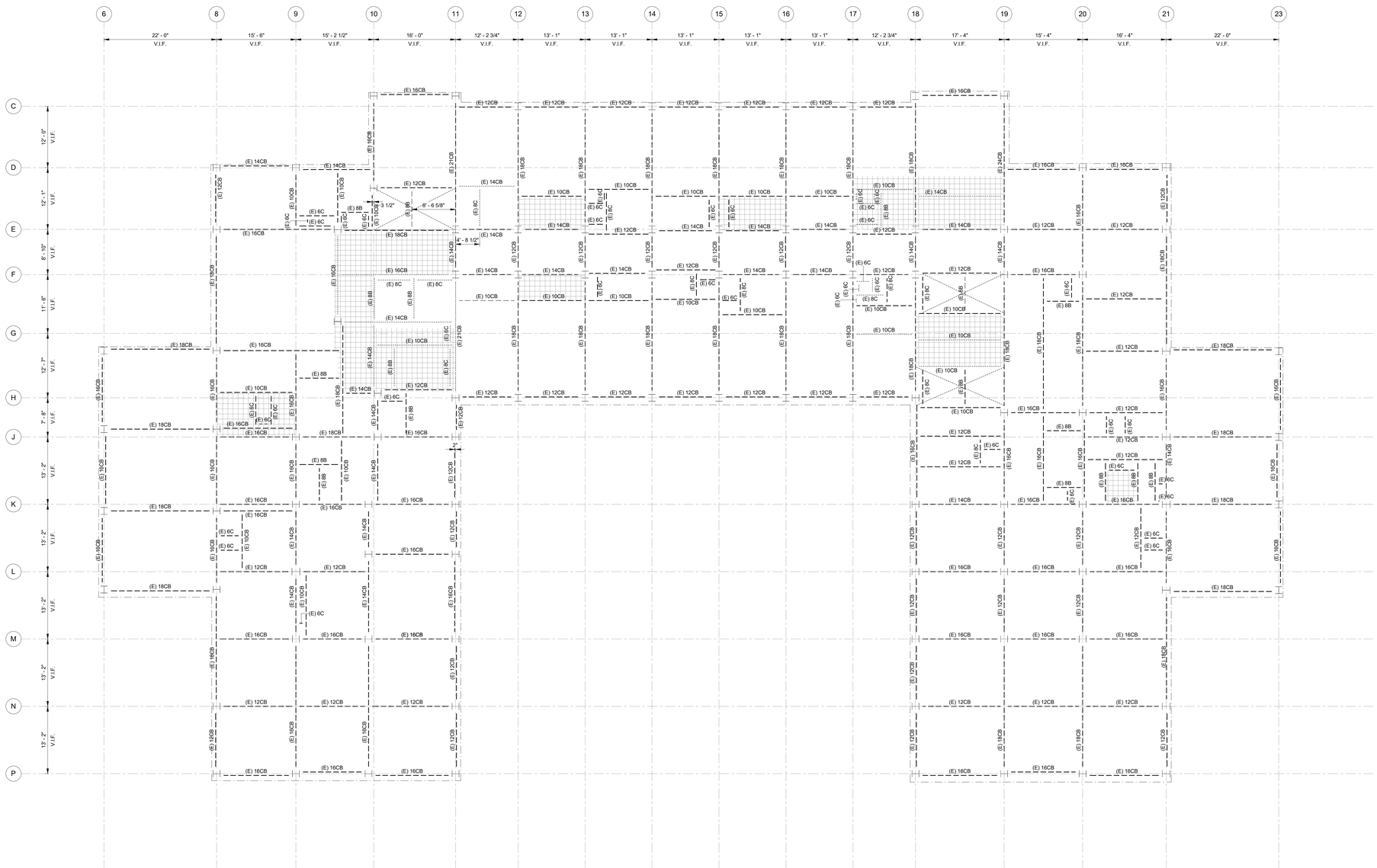

1 S-763 LEVEL 35 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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STATE OF NEW YORK
ALASTAIR C. ELLIOTT
No. 081677
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
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LEVEL 35 DEMO PLAN

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80 OF 87

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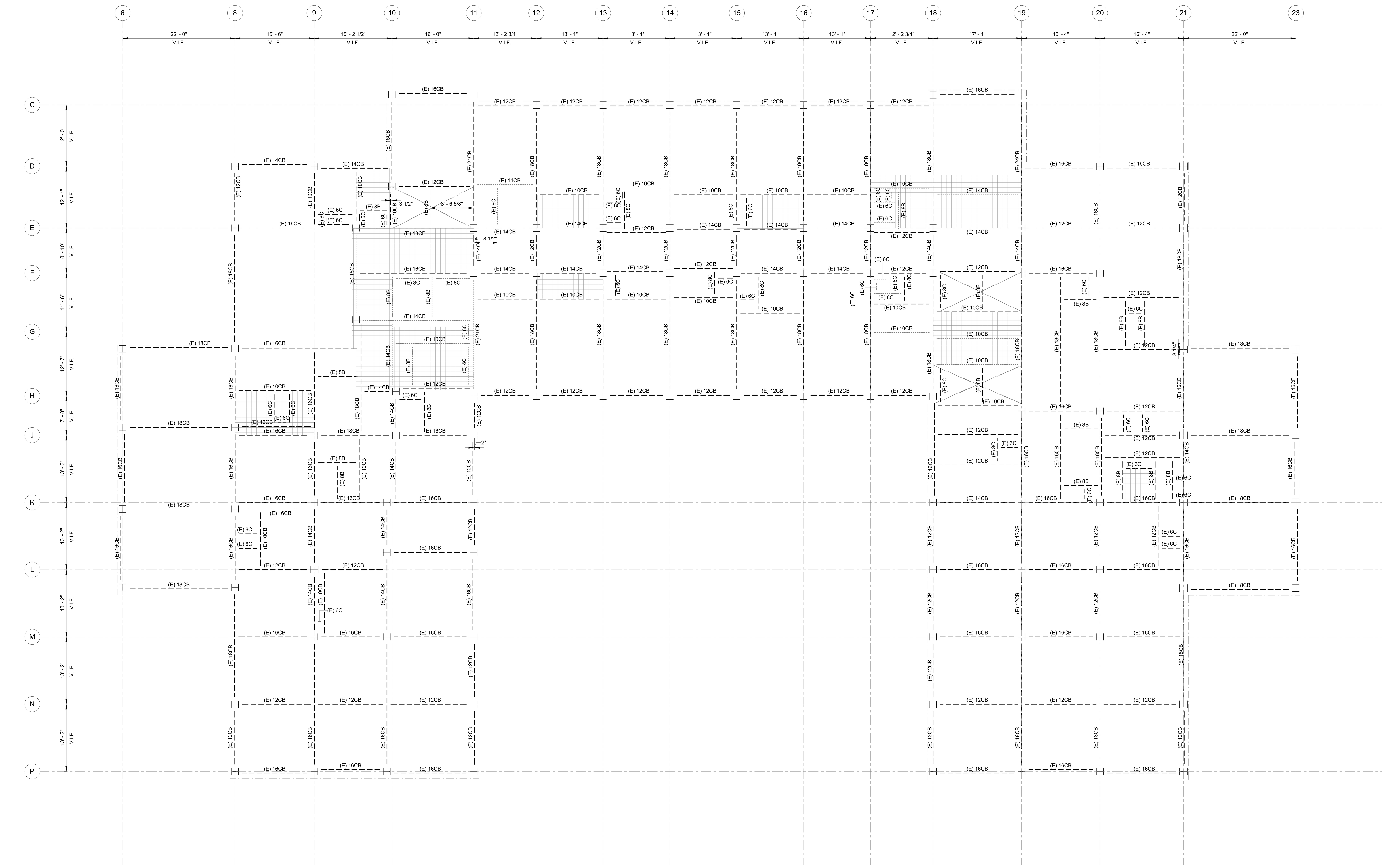

1 LEVEL 36 STEEL - TOWER
S-764 1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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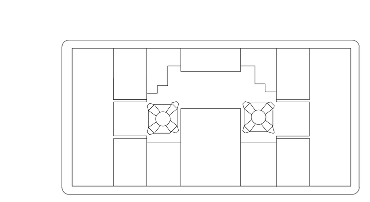

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NO.	DATE	DESCRIPTION
1	10 FEB 2017	ISSUED TO DOB

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LEVEL 36 DEMO PLAN

B-SCAN - DRAWING NUMBER
S-764.00

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81 OF 87

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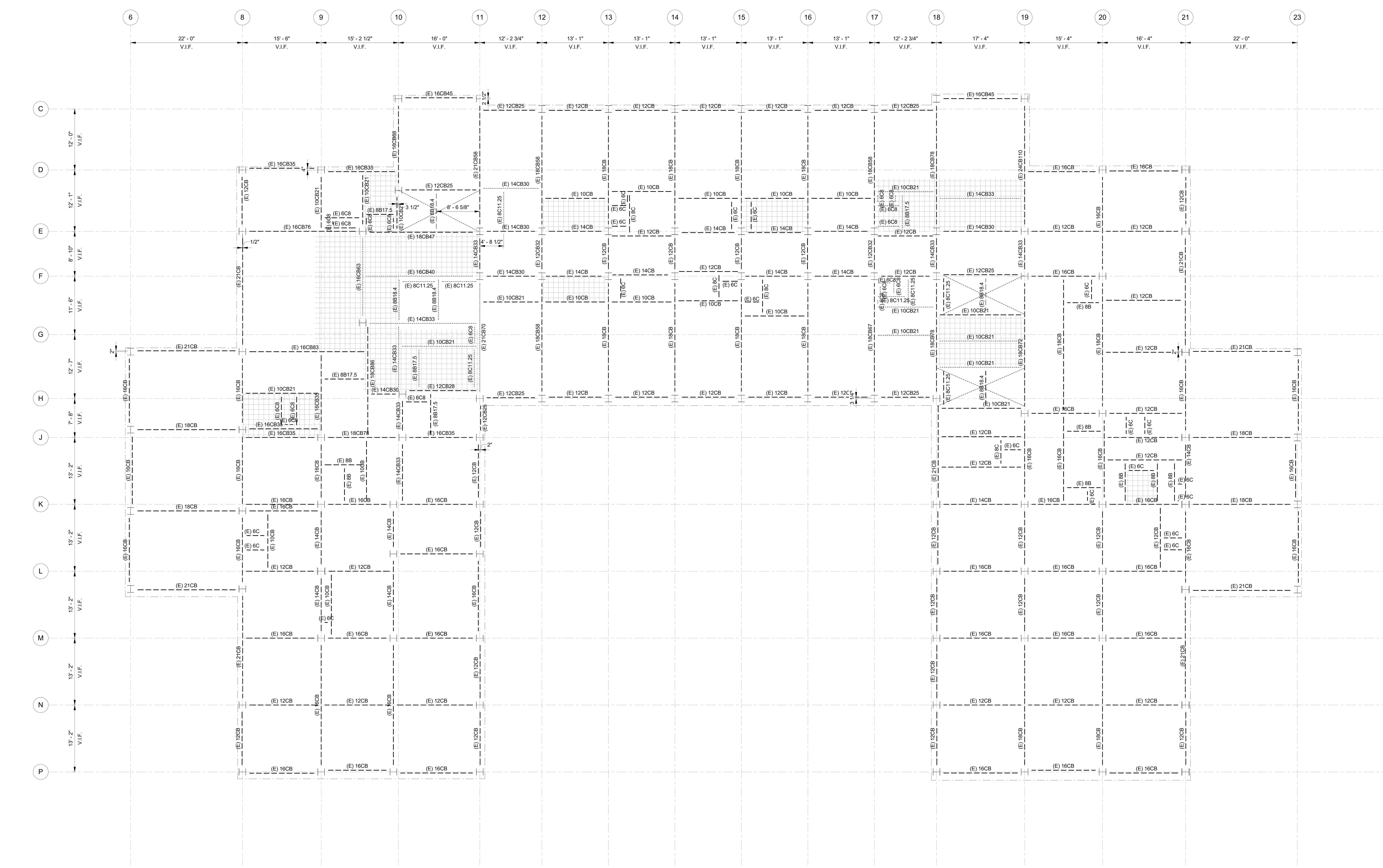

1
S-765
LEVEL 37 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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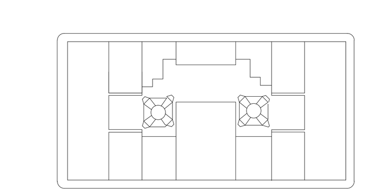

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LEVEL 37 DEMO PLAN

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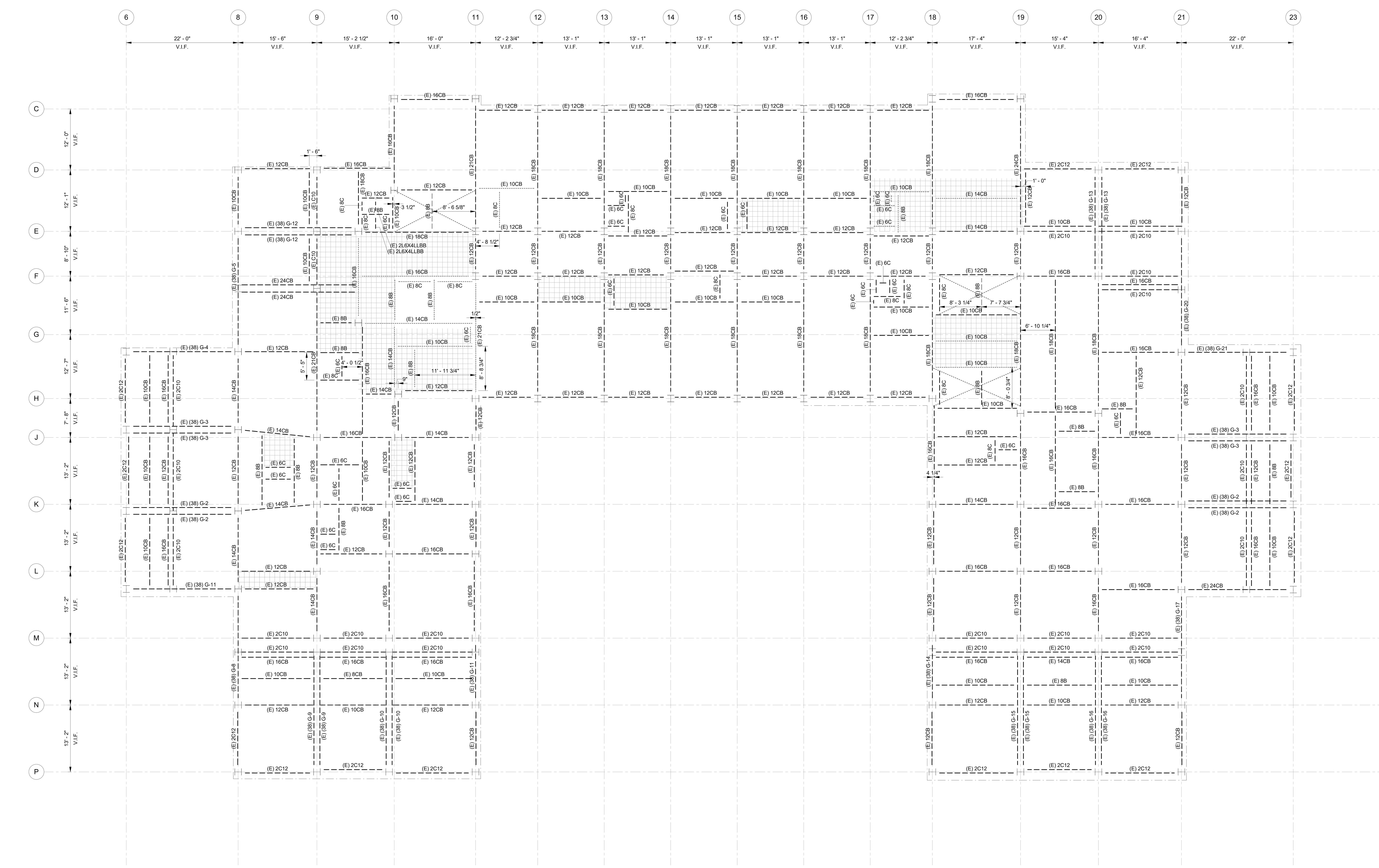

1 S-766 LEVEL 38 STEEL - TOWER

1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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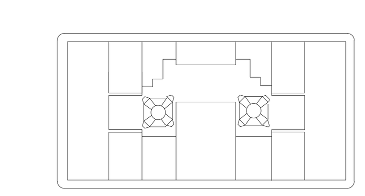

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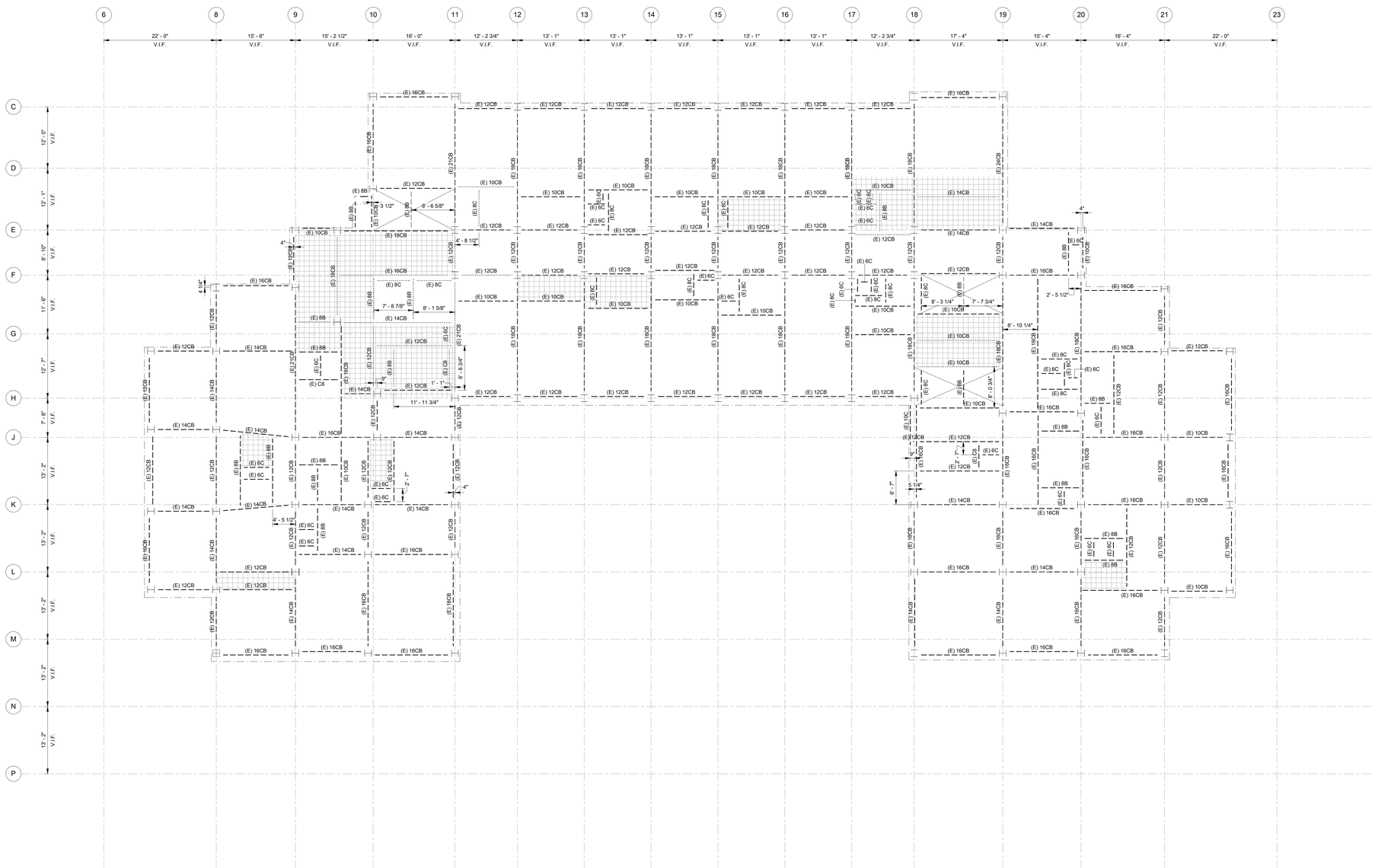

1 S-767 LEVEL 39 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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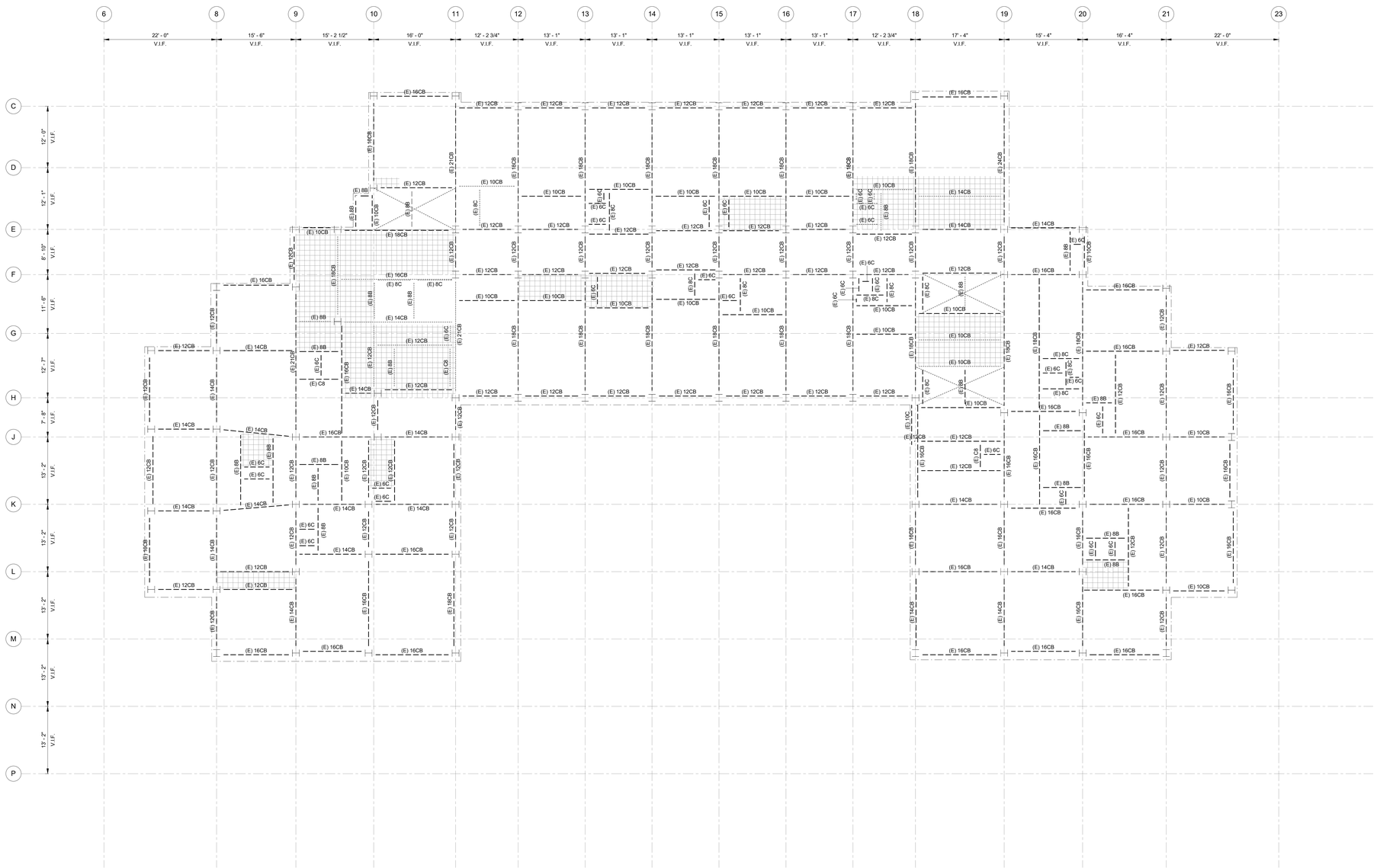

1 S-768 LEVEL 40 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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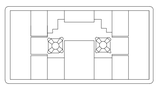

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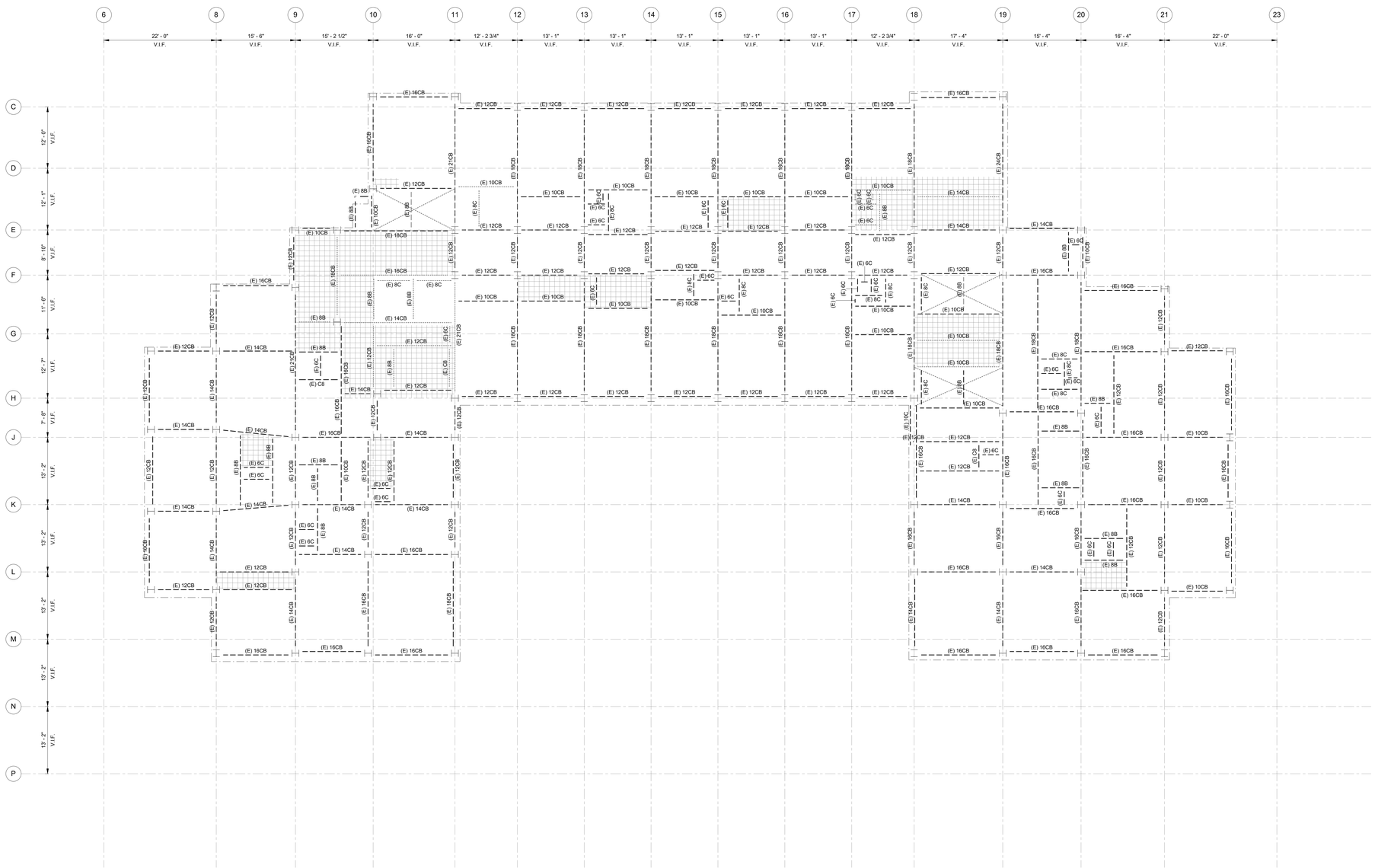

1 S-769 LEVEL 41 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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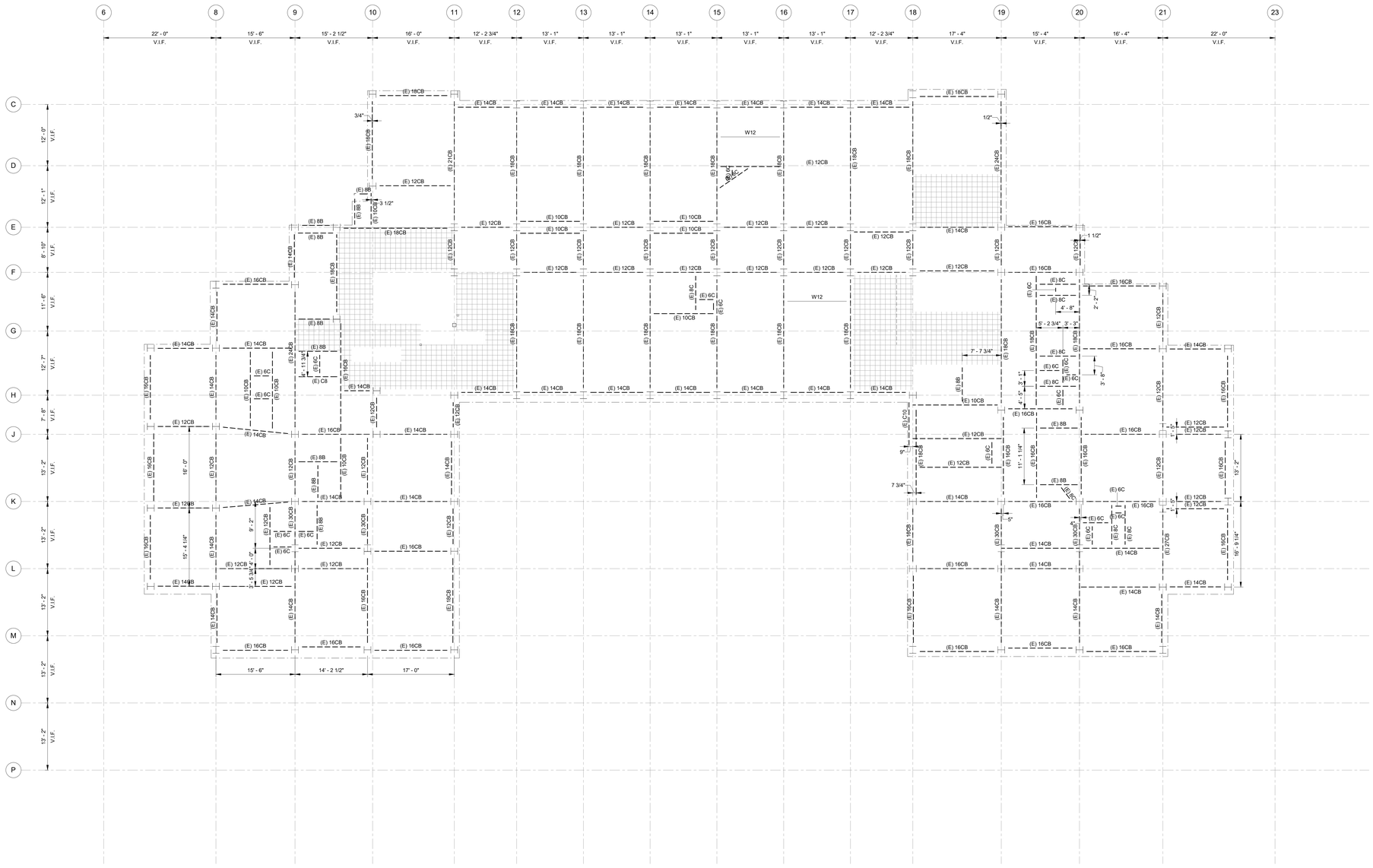

1 S-770 LEVEL 42 STEEL - TOWER
1/8" = 1'-0"

STRUCTURAL STEEL DEMOLITION NOTES

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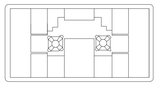

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