

Development Services

From Concept to Construction

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APPEAL SUMMARY

Status: PENDING

Appeal ID: 27613	Project Address: 4035 N Williams Ave
Hearing Date: 3/30/22	Appellant Name: Mike Perso
Case No.: B-004	Appellant Phone: 503-841-5239
Appeal Type: Building	Plans Examiner/Inspector:
Project Type: commercial	Stories: 4 Occupancy: R-2, M, S-1 Construction Type: V-A
Building/Business Name:	Fire Sprinklers: Yes - Fully Sprinklered
Appeal Involves: Erection of a new structure	LUR or Permit Application No.: 21-064088-CO
Plan Submitted Option: pdf [File 1] [File 2] [File 3] [File 4] [File 5] Proposed use: Mixed-Use Apartments	

APPEAL INFORMATION SHEET

Appeal item 1

Code Section	OSSC 705.8.2
Requires	<p>705.8.2 – Protected openings:</p> <p>Where openings are required to be protected, opening protectives shall comply with Section 716. In accordance with the exception to Section 705.8.2, opening protectives are not required when the building is sprinklered and the openings are protected with water curtain sprinklers approved for that use.</p>
Code Modification or Alternate Requested	<p>Requesting approval for an alternative glazed two-hour fire-resistance-rated non-load bearing interior fire barrier assembly at a level 1 2-hour stair enclosure wall. This includes a fixed glazed wall assembly with automatic special-purpose sprinkler system incorporating the Model WS sprinkler - TYCO Type WS water curtain system</p>
Proposed Design	<p>Stair 3 terminates at a ground floor residential lobby, where the lobby exit door and exit signage are readily visible and identifiable. In lieu of a more traditional 2-hour fire barrier wall assembly, the entire east wall of Stair 3 at Level 1 is glass. In order to meet the 2-hour rating we are proposing to use the TYCO Type WS water curtain system with ESR supporting documents.</p> <p>As evaluated by the International Code Council (ICC), the Tyco Model WS window sprinklers are intended for use as part of a wet-pipe fire suppression system to provide 2-hour fire resistance rating to an interior non-load-bearing fire barrier. As described in the ICC ESR-2397 report (included), the sprinklers are designed to wet the entire surface of the glazed opening on the fire side of the glass to provide the required level of fire resistance.</p> <p>The proposed assembly will be designed to meet the specifications of Section 4 of the ICC ESR-2397 report. The fixed glazed assembly will not have intermediate horizontal mullions that would</p>

interfere with uniform distribution of water. All combustible materials will be kept a minimum of 2 inches from the face of the glass, such that complete coverage of the glass by the sprinklers is not impeded.

Consistent with other projects we have done in the City, the Tyco WS system with ESR has been considered an alternative approved assembly.

Reason for alternative The alternative proposed provides equivalent protection by providing an equivalent 2-hour fire resistance rating. This is supported by the attached ICC ESR-2397 report.

The administrative staff has not yet reviewed this appeal.

CITY STAMP

PROJECT

WILLIAMS 40

4037-4039 N WILLIAMS AVE
PORTLAND, OR 97227

DRAWING TITLE
FLOOR PLAN
LEVEL 1

REVISIONS

1 PMT REV 1 01/07/2022



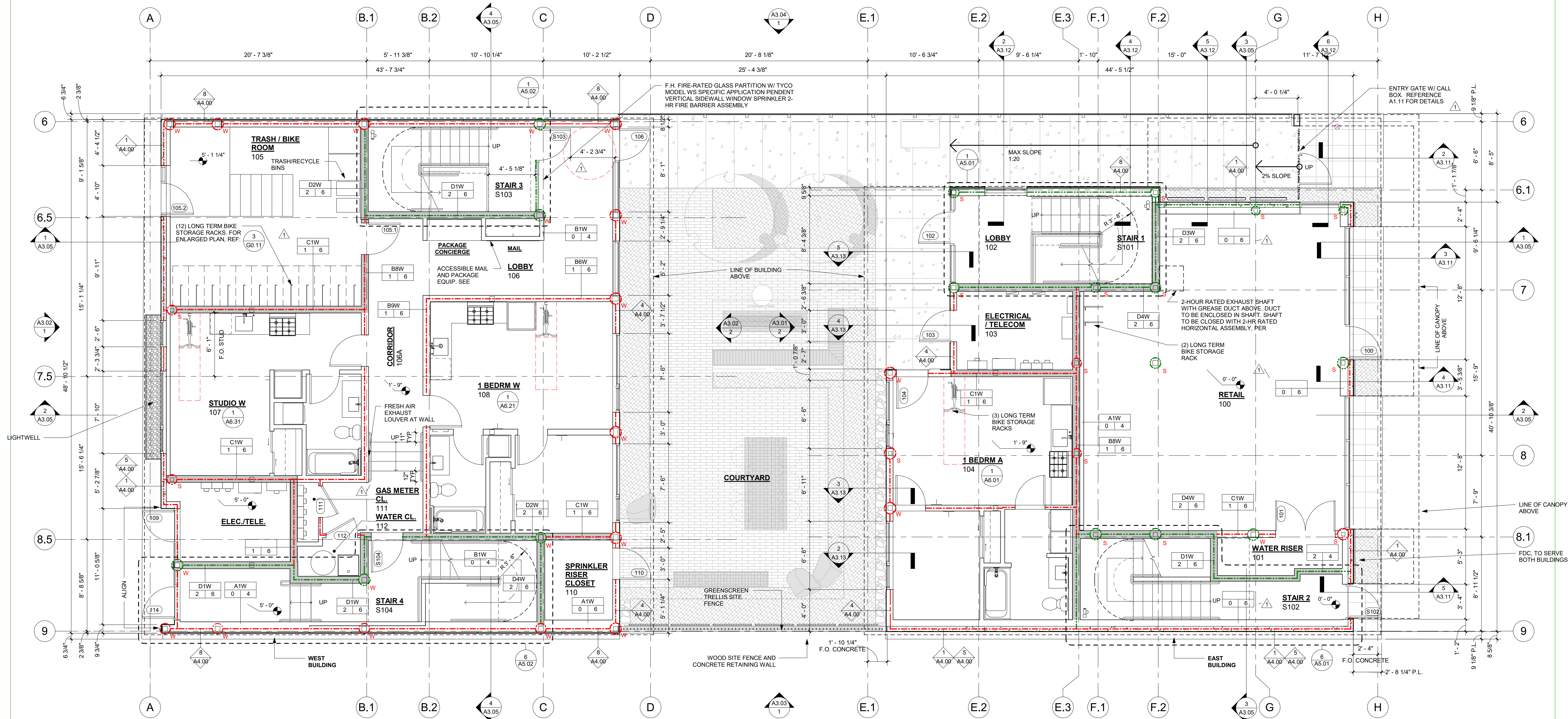
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DATE: JUNE 9, 2021
JOB NO.: 19.07

DRAWING NO.

A2.01

PERMIT



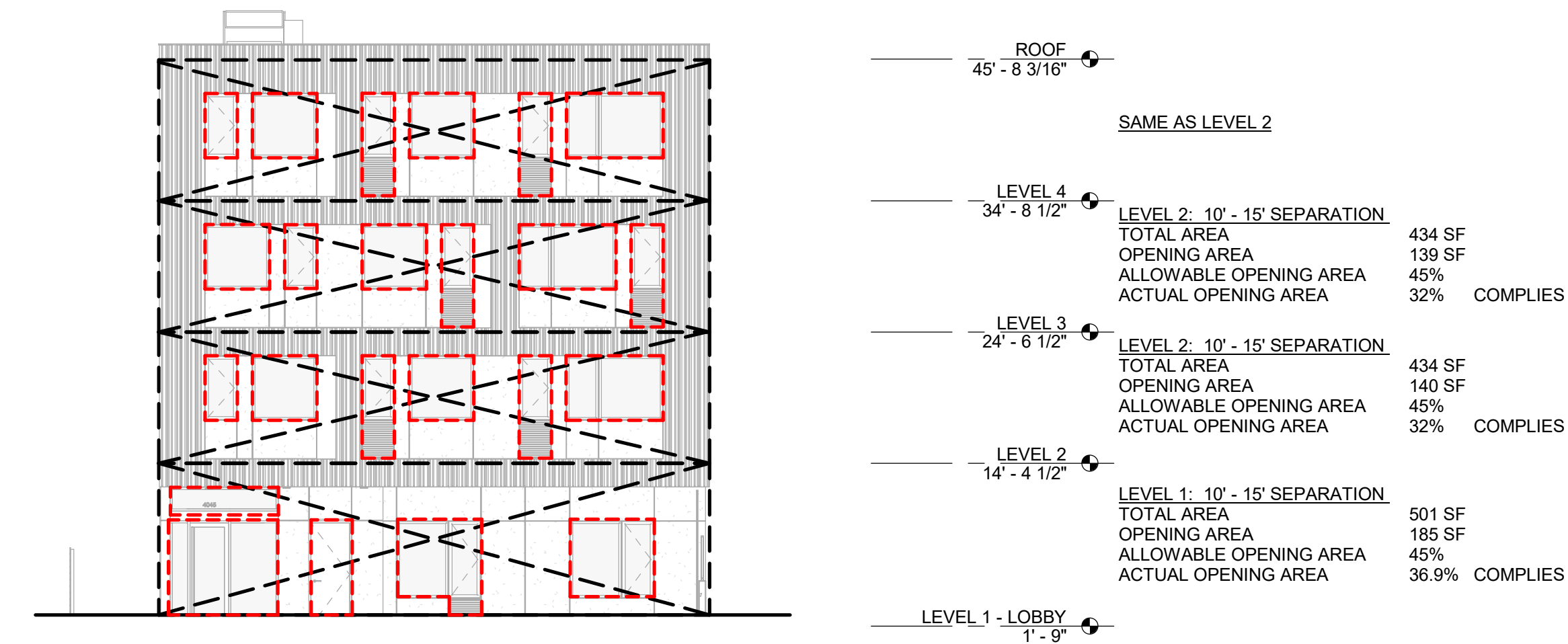
01 FLOOR PLAN LEVEL 1
1/4" = 1'-0"

FIRE RESISTANCE RATING LEGEND	
	FIRE PARTITION (WHERE RESISTANCE RATING IS INDICATED)
	FIRE BARRIER
	1-HOUR FIRE RESISTANCE RATING
	2-HOUR FIRE RESISTANCE RATING
	1-HOUR FIRE PROTECTED STEEL COLUMN, SEE 1/A8.06
	1-HOUR FIRE PROTECTED WOOD COLUMN, SEE 3/A8.06
	2-HOUR FIRE PROTECTED STEEL COLUMN, SEE 2/A8.06
	2-HOUR FIRE PROTECTED WOOD COLUMN, SEE 2/A8.06
	1-HOUR INDIVIDUAL ENCASED BEAM ABOVE, SEE 4/A8.06 (STEEL) & 8/A8.06 (WOOD)
	2-HOUR INDIVIDUAL ENCASED BEAM ABOVE, SEE 4/A8.06
	2-HOUR HORIZONTAL CEILING ASSEMBLY ABOVE, SEE 8/A8.01

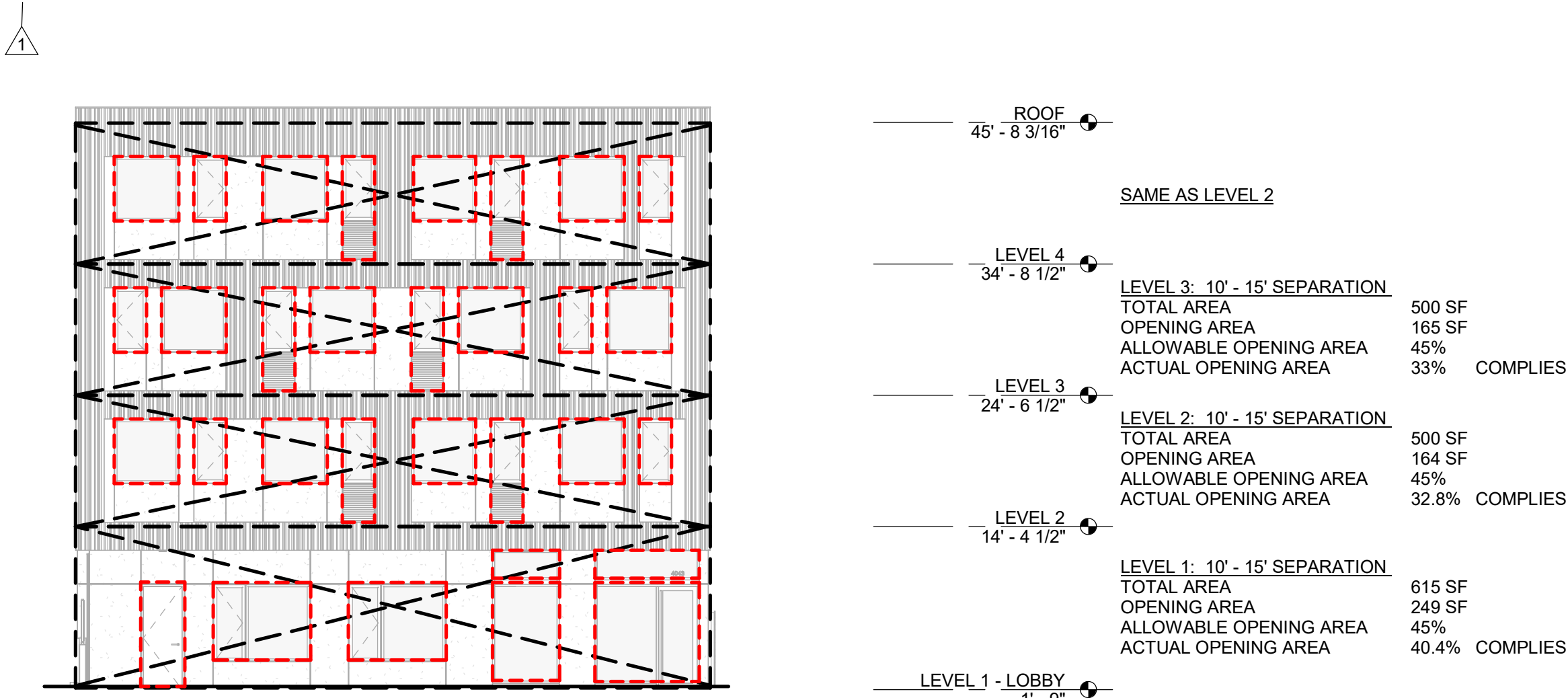
NOTE: WHERE FIRE RESISTANCE RATING IS INDICATED AT EXTERIOR WALLS, WALL IS TO BE CONSTRUCTED PER OSSC 705. SEE CODE PLANS FOR LOCATIONS WHERE RATING IS REQUIRED AT BOTH SIDES OF WALL

NOTE: WHERE INDIVIDUAL ENCASEMENT IS NOT REQUIRED FOR BEAMS AND COLUMNS PER OSSC 704.4.1 & 704.4.2, FIRE RESISTANCE RATING IS TO BE PROVIDED BY THE MEMBRANE RATING OF THE HORIZONTAL ASSEMBLY OR WALL ASSEMBLY, RESPECTIVELY

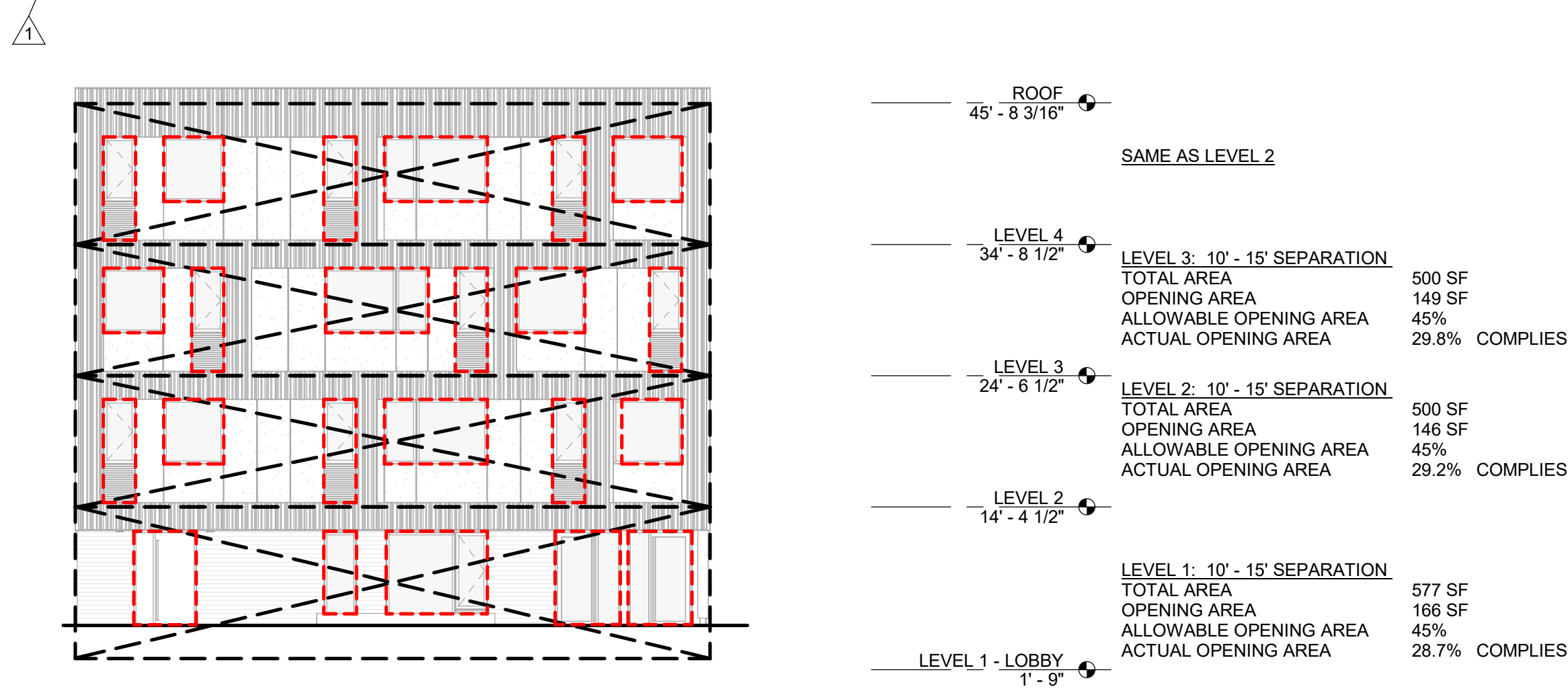
- GENERAL NOTES
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE: DO NOT SCALE. FOLLOW DIMENSIONS SHOWN ON DRAWINGS AND FIELD VERIFY EXISTING CONDITIONS.
 - DIMENSIONS ON PLAN SHEETS ARE TO FINISH FACE UNLESS NOTED OTHERWISE.
 - SEE SITE PLAN FOR SITE WALLS, GATES, FENCES AND OTHER EXTERIOR INFORMATION.
 - SEE INTERIOR ELEVATIONS FOR DEVICE, FIXTURE, AND EQUIPMENT MOUNTING LOCATIONS AND HEIGHTS WHERE NOT NOTED ON PLANS.
 - REFER TO UNIT PLANS FOR UNIT INTERIOR WALL TYPES AND DIMENSIONS.
 - ALL GATES AND RAILINGS TO BE DESIGN BUILD. INFORMATION INCLUDED FOR DESIGN INTENT ONLY. ENGINEERING TO BE PROVIDED ON ALL REQUIRED ASSEMBLIES.
 - FOR PARTITION TYPES AND TYPICAL DETAILS SEE SHEETS A8.01-A8.02.
 - FOR TYPICAL EXTERIOR ASSEMBLY TYPES SEE SHEET A8.00.
 - FOR DOOR AND FRAME SCHEDULE SEE SHEET A9.03.
 - FOR FINISH SCHEDULE SEE SHEET A9.02.
 - REFER TO MECHANICAL PLANS FOR MECHANICAL EQUIPMENT LOCATIONS, WEIGHTS, AND ADDITIONAL INFORMATION.
 - FOR ENLARGED STAIR PLANS AND SECTIONS SEE SHEETS A5.01-A5.02.



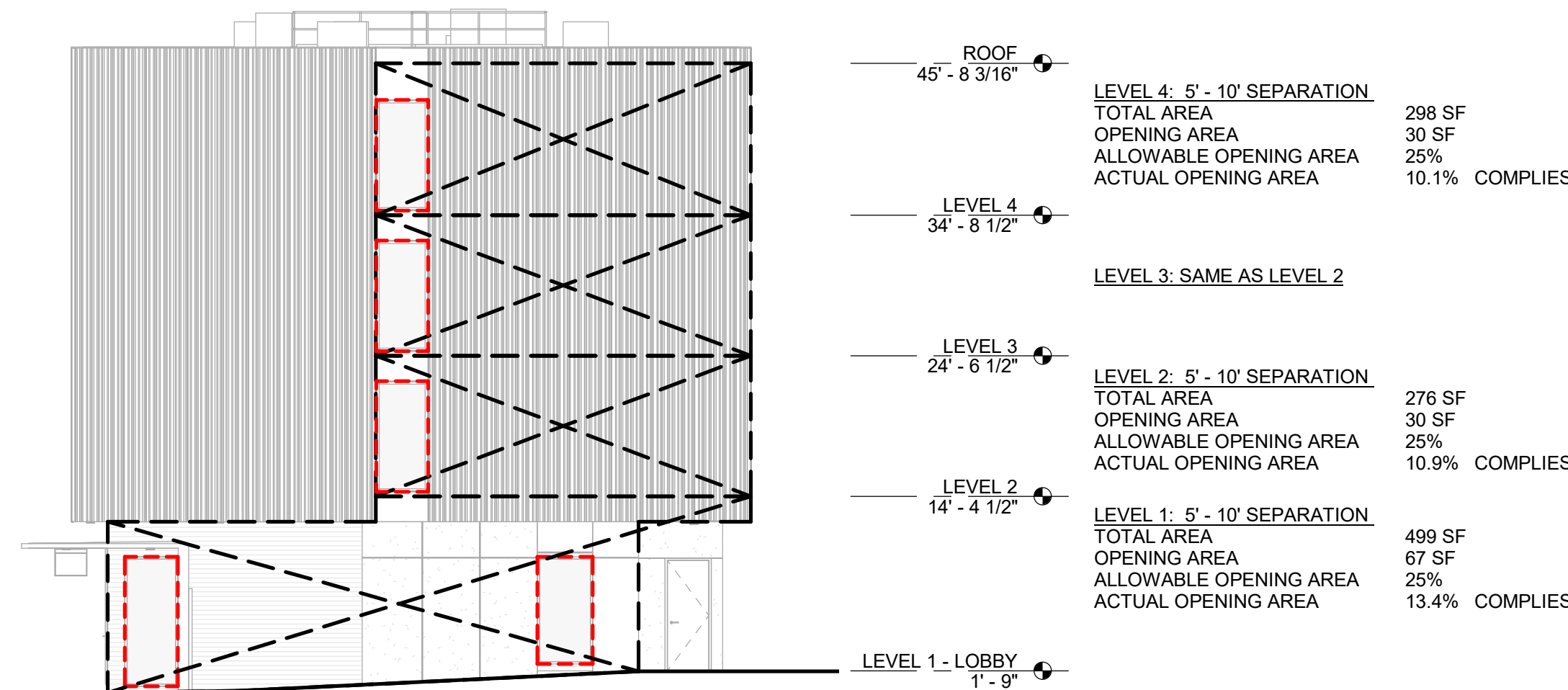
04 UNPROTECTED OPENING DIAGRAM - EAST BUILDING - COURTYARD
1" = 10'-0"



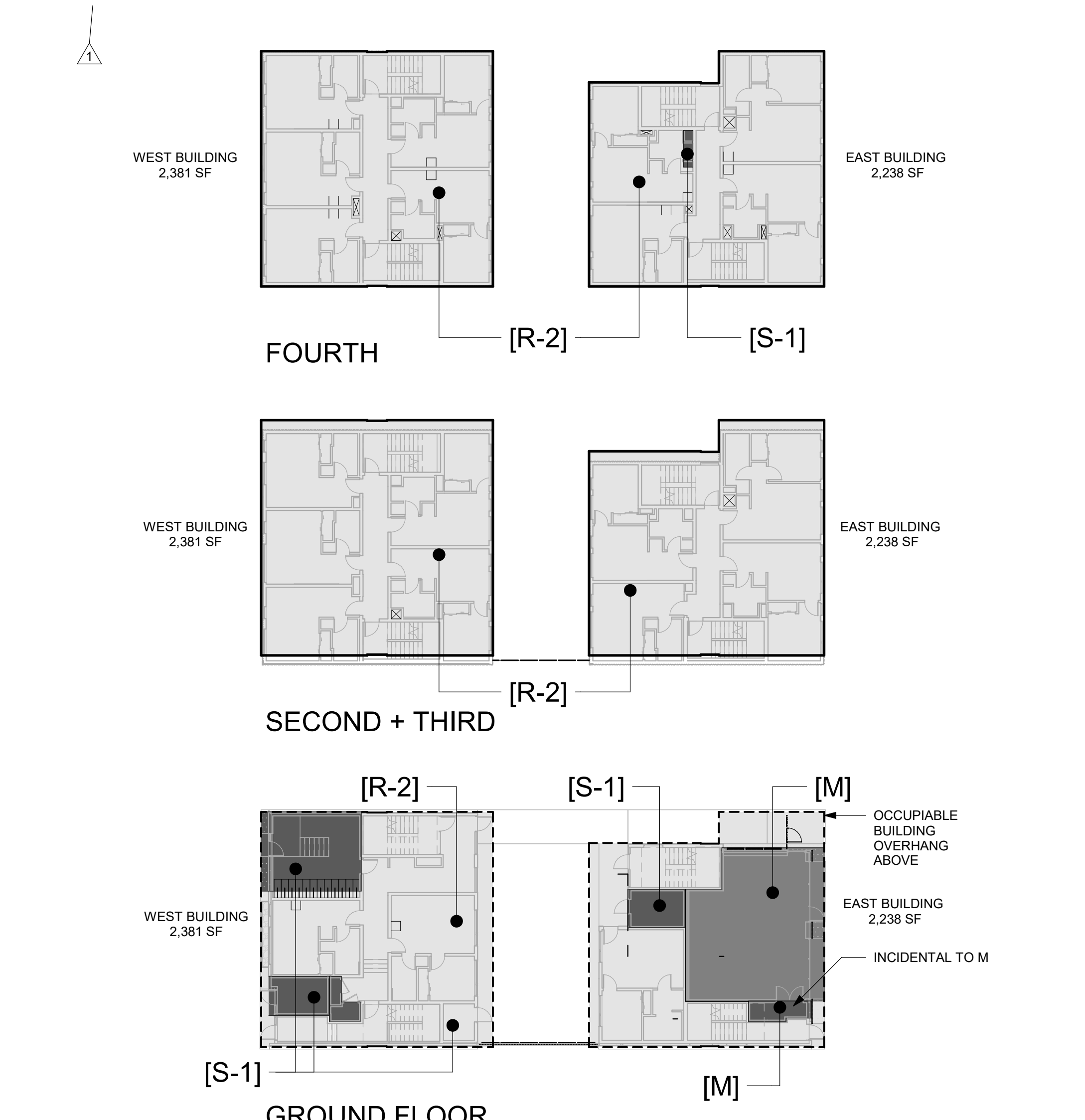
03 UNPROTECTED OPENING DIAGRAM - WEST BUILDING - COURTYARD
1" = 10'-0"



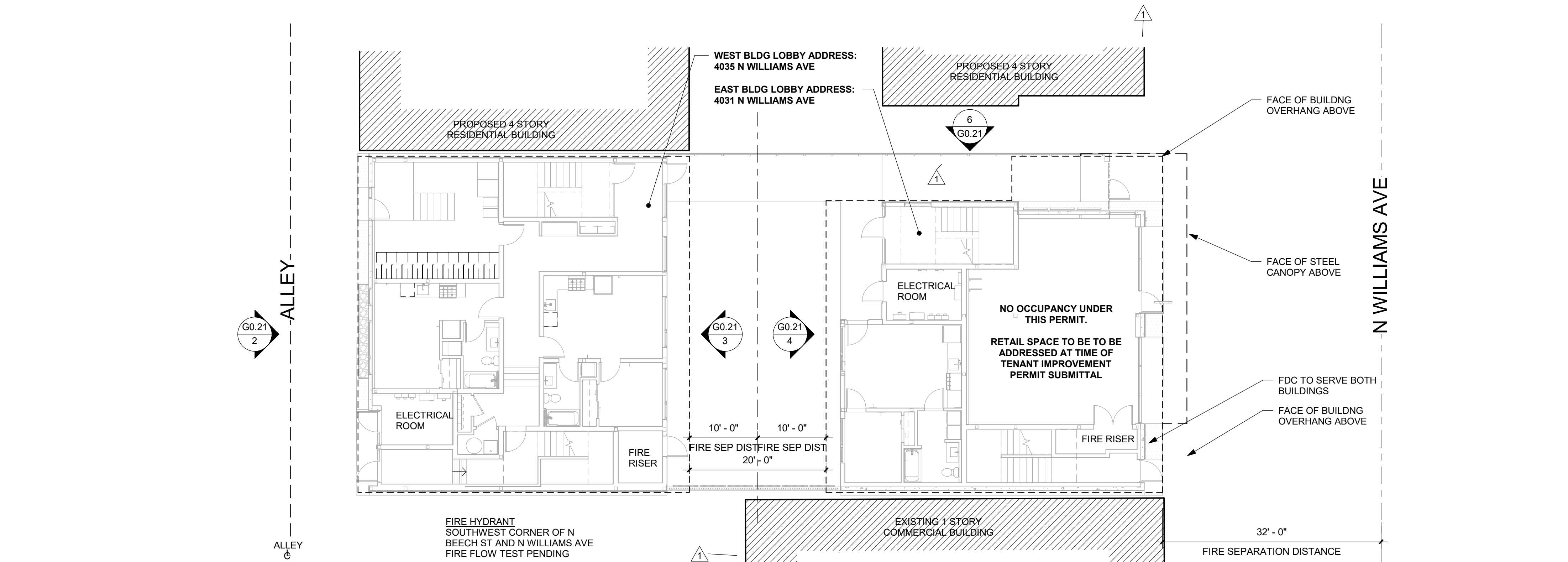
02 UNPROTECTED OPENING DIAGRAM - WEST BUILDING - ALLEY
1" = 10'-0"



06 UNPROTECTED OPENING DIAGRAM - EAST BUILDING - NORTH
1" = 10'-0"



05 GROSS AREA & OCCUPANCY DIAGRAMS
1" = 20'-0"



01 LIFE SAFETY SITE PLAN
1" = 10'-0"

SHELL PERMIT SUMMARY

WORK TO BE PROVIDED UNDER FUTURE TENANT IMPROVEMENT PERMIT

- FIRE BARRIERS (IF REQUIRED TO SEPARATE TENANT SPACES)
- EXITING
- EMERGENCY EGRESS LIGHTING
- EXIT SIGNAGE
- PLUMBING (SEPARATE PERMIT)
- ELECTRICAL / LOW VOLTAGE (SEPARATE PERMIT)
- MECHANICAL (SEPARATE PERMIT)

ACCESSIBILITY REQUIREMENTS

ACCESSIBLE PARKING

N/A

AREA OF REFUGE REQUIREMENTS

NO AREA OF REFUGE PROVIDED, AUTOMATIC SPRINKLERS ARE PROVIDED THROUGHOUT
ALL DWELLING UNITS COMPLY

TYPE A DWELLING UNIT (SECTION 1107.6.2.2.1)

CUMULATIVE UNIT COUNT = 30 UNITS

REQUIREMENT: 30 UNITS X .02 = 1 TYPE A UNIT
PROVIDED: 1 TYPE A UNIT @ UNIT 104

TYPE B DWELLING UNIT

2 UNITS PROVIDED AT LEVEL 1 (WEST BUILDING)

2 UNITS TOTAL PROVIDED AT LEVEL 1

ELEVATOR

N/A

CODE ANALYSIS

APPLICABLE CODES

2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
2017 OREGON ELECTRICAL SPECIALTY CODE (OESC)
2019 OREGON MECHANICAL SPECIALTY CODE (OMSC)
2017 OREGON PLUMBING SPECIALTY CODE (OPSC)
2019 OREGON FIRE CODE (OFC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2009 ICC/ANSI A117.1

BUILDINGS ON THE SAME LOT (SECTION 503.1.2)

THE PROPOSED PROJECT IS TO ANALYZED AS TWO SEPARATE BUILDINGS ON THE SAME LOT.

ALLOWABLE BUILDING HEIGHTS AND AREAS (TABLE 504.3, 504.4, & 506.2)

WEST BLDG TYPE VA - FULLY SPRINKLERED (NFPA 13 SPRINKLER USED FOR INCREASED HEIGHT, STORIES, AND AREAS)

GROUP	HEIGHT	STORIES	AREA
GROUP R-2	70 FT	4 STORIES	36,000 SF
GROUP S-1	70 FT	4 STORIES	42,000 SF

EAST BLDG TYPE VA - FULLY SPRINKLERED (NFPA 13 SPRINKLER USED FOR INCREASED HEIGHT, STORIES, AND AREAS)

GROUP	HEIGHT	STORIES	AREA
GROUP M	70 FT	4 STORIES	42,000 SF
GROUP R-2	70 FT	4 STORIES	36,000 SF
GROUP S-1	70 FT	4 STORIES	42,000 SF

MIXED USE AND OCCUPANCY (SECTION 508)

WEST BUILDING

STORY AREAS	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
GROUP M	0	0	0	0
GROUP R-2	1,945	2,381	2,381	2,381
GROUP S-1	438	0	0	0
LEVEL TOTALS	2,381 SF	2,381 SF	2,381 SF	2,381 SF
BLDG TOTAL	9,524 SF			

WHOLE BUILDING: NON-SEPARATED OCCUPANCY (SECTION 508.3)
R-2 IS THE LIMITING OCCUPANCY

TYPE VA WITH SPRINKLER	ALLOWABLE	ACTUAL
GROUP R-2	4 STORY	4 STORY
	36,000 SF	2,381 SF

EAST BUILDING

STORY AREAS	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
GROUP M	709	0	0	0
GROUP R-2	1,469	2,238	2,238	2,223
GROUP S-1	42	0	0	15
LEVEL TOTALS	2,238 SF	2,238 SF	2,238 SF	2,238 SF
BLDG TOTAL	8,952 SF			

WHOLE BUILDING: NON-SEPARATED OCCUPANCY (SECTION 508.3)
R-2 IS THE LIMITING OCCUPANCY

TYPE VA WITH SPRINKLER	ALLOWABLE	ACTUAL
GROUP R-2	4 STORY	4 STORY
	36,000 SF	2,238 SF

FIRE RESISTIVE CONSTRUCTION REQUIREMENTS (TABLE 601)

BUILDING ELEMENT	TYPE V-A
PRIMARY STRUCTURAL FRAME	1 HRS
EXTERIOR BEARING WALLS	1 HRS
INTERIOR BEARING WALLS	1 HRS
EXTERIOR NON-BEARING WALLS	TABLE 602 & 704.10
INTERIOR NON-BEARING WALLS	0 HRS
FLOORS AND FLOOR/CEILINGS	1 HRS
ROOFS AND ROOF/CEILINGS	1 HRS

FIRE RESISTIVE RATING REQUIREMENT OF EXTERIOR WALLS (TABLE 602)

SEPARATION DISTANCE	R-2	M, S-1
X < 5 FT	1 HR	2 HR
5 FT ≤ X < 10 FT	1 HR	1 HR
10 FT ≤ X < 30 FT	1 HR	1 HR
X ≥ 30 FT	0 HR	0 HR

FIRE RESISTIVE SEPARATIONS

BUILDING ELEMENT	TYPE V-A
CORRIDORS (420.2 & 1020.1)	0.5 HRS
STAIR ENCLOSURES	2 HRS
SHAFTS CONNECTING 3 OR FEWER STORIES	1 HRS
SHAFTS CONNECTING 4 OR MORE STORIES	2 HRS
ELEVATOR LOBBIES	NOT REQUIRED
HORIZONTAL EXITS	1 HRS
UNIT TO UNIT WALLS (420.2, 708.3, & 1020.1)	1 HRS

MAXIMUM AREA OF WALL OPENINGS (TABLE 705.8)

ELEVATION	DISTANCE	MAX OPENING
NORTH WALL	0 TO < 3 FT	NOT PERMITTED
EAST WALL	30 FT <	NO LIMIT
SOUTH WALL	0 TO < 3 FT	NOT PERMITTED
WEST WALL	10 TO < 15 FT	45%
COURTYARD EAST	10 TO < 15 FT	45%
COURTYARD WEST	10 TO < 15 FT	45%

LIFE SAFETY ELEVATIONS LEGEND

EXTERIOR WALL AREAS

TOTAL AREA OF WALL CONSIDERED FOR CALCULATIONS PER FLOOR

EXTENT OF OPENING

FIRE RESISTANCE RATING LEGEND

FIRE PARTITION (WHERE RESISTANCE RATING IS INDICATED)

FIRE BARRIER

1-HOUR FIRE RESISTANCE RATING

2-HOUR FIRE RESISTANCE RATING

1-HOUR FIRE PROTECTED STEEL COLUMN, SEE 1/A8.06

1-HOUR FIRE PROTECTED WOOD COLUMN, SEE 3/A8.06

2-HOUR FIRE PROTECTED STEEL COLUMN, SEE 2/A8.06

2-HOUR FIRE PROTECTED WOOD COLUMN, SEE 2/A8.06

1-HOUR INDIVIDUAL ENCASED BEAM ABOVE, SEE 4/A8.06 (STEEL) & 8/A8.06 (WOOD)

2-HOUR INDIVIDUAL ENCASED BEAM ABOVE, SEE 4/A8.06

2-HOUR HORIZONTAL CEILING ASSEMBLY ABOVE, SEE 8/A8.01

NOTE: WHERE FIRE RESISTANCE RATING IS INDICATED AT EXTERIOR WALLS, WALL IS TO BE CONSTRUCTED PER OSSC 705. SEE CODE PLANS FOR LOCATIONS WHERE RATING IS REQUIRED AT BOTH SIDES OF WALL

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EXIT SYSTEMS

REQUIRED EXITS (TABLE 1006.2.1)

REQUIREMENT: GROUP M GROUP R-2 COMPLIES (1) EXITS REQ'D FOR > 49 OCCUPANTS (2) EXITS REQ'D FOR > 10 OCCUPANTS

COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1)

REQUIREMENT: GROUP M GROUP R-2 GROUP S-1, S-2 COMPLIES SHALL NOT EXCEED 75' SHALL NOT EXCEED 125' SHALL NOT EXCEED 100'

EXIT TRAVEL DISTANCE (TABLE 1017.2)

REQUIREMENT: GROUP M, R-2, S-1 GROUP S-2 COMPLIES SHALL NOT EXCEED 250' SHALL NOT EXCEED 400'

DEAD-END CORRIDOR (SECTION 1020.4, EXCEPTION 2)

REQUIREMENT: GROUP M, R-2, S COMPLIES SHALL NOT EXCEED 50'

EXIT SEPARATION (SECTION 1007.1.1, EXCEPTION 2)

REQUIREMENT: EXIT DOORS SHALL BE PLACED A DISTANCE APART EQUAL TO THE LESSER OF THE LENGTH OF THE MAX OVERALL DIAGONAL DIMENSION OF THE AREA SERVED COMPLIES SEE CODE PLANS

REQUIREMENT: THE LESSER OF 30' OR 1/4 THE DIAGONAL DISTANCE COMPLIES SEE CODE PLANS

EMERGENCY POWER AND STANDBY POWER SYSTEMS

BATTERY BACK UP TO BE PROVIDED ON SITE, AT EACH BUILDING, AND SHALL PROVIDE EMERGENCY POWER FOR EGRESS LIGHTING

FIRE COMMAND CENTER

NOT REQUIRED

AUTOMATIC SPRINKLER SYSTEM

AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED AT EACH BUILDING, UNDER SEPARATE PERMITS, AND IN ACCORDANCE WITH SECTIONS 903.3.1.1 AND NFPA-13

SMOKE ALARM SYSTEM

SMOKE ALARMS SHALL BE PROVIDED AT EACH BUILDING AND IN UNITS IN ACCORDANCE WITH PFC 907.2.11. ALARMS SHALL BE INTERCONNECTED IN ACCORDANCE WITH PFC 907.2.11.3, AND THEIR POWER SOURCE SHALL COMPLY WITH PFC 907.2.11.4

CARBON MONOXIDE ALARM SYSTEM

CARBON MONOXIDE ALARMS SHALL BE PROVIDED AT EACH BUILDING AND IN UNITS, IN ACCORDANCE WITH PFC 908.7. ALARMS SHALL BE ENERGIZED IN ACCORDANCE WITH PFC 908.7.2.3

FIRE ALARM SYSTEM

NFPA 13 SYSTEM AT EACH BUILDING (UNDER SEPARATE PERMIT)

FIRE FLOW REQUIREMENTS

FLOW MAY BE REDUCED UP TO 75% PER B105.3.1.1

TYPE X (XX,XXX-XX,XXXQFT): X,XXX GPM (X,XXX GPM PER 105.3.1)
ACTUAL: X,XXX GPM AT XX PSI

RADON CONTROL

BUILDING TO COMPLY WITH RADON CONTROL METHODS PER SECTION 1812. REFER TO PLUMBING DRAWINGS.

PLUMBING FIXTURES COUNT

LEVEL	FIXTURE	NUMBER REQ'D	NUMBER PROVIDED
WEST BUILDING			
LEVEL 1	FIXTURE WATER CLOSETS LAVATORIES	REQUIRED	PROVIDED
LEVEL 2	WATER CLOSETS LAVATORIES		
LEVEL 3	WATER CLOSETS LAVATORIES		
LEVEL 4	WATER CLOSETS LAVATORIES		
EAST BUILDING			
LEVEL 1	FIXTURE WATER CLOSETS LAVATORIES	REQUIRED	PROVIDED
LEVEL 2	WATER CLOSETS LAVATORIES		
LEVEL 3	WATER CLOSETS LAVATORIES		
LEVEL 4	WATER CLOSETS LAVATORIES		

*** ADDITIONAL FIXTURES REQUIRED BY M OCCUPANCY WILL BE PROVIDED UNDER SEPARATE PERMIT

WILLIAM / KAVEN

WILLIAM KAVEN ARCHITECTURE
4075 N. WILLIAMS AVE, STUDIO 440
PORTLAND, OR 97227
www.williamkaven.com

CITY STAMP

PROJECT

WILLIAMS 40

4037-4039 N WILLIAMS AVE
PORTLAND, OR 97227

DRAWING TITLE

LIFE SAFETY SITE PLAN & CODE SUMMARY

REVISIONS

1 PMT REV 1 01/07/2022

REGISTERED ARCHITECT
5237
TREVOR W. LEWIS
PORTLAND, OREGON
STATE OF OREGON

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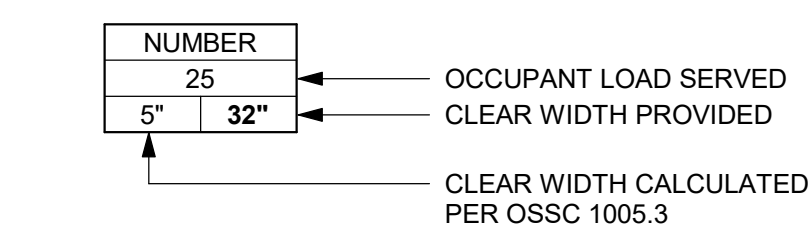
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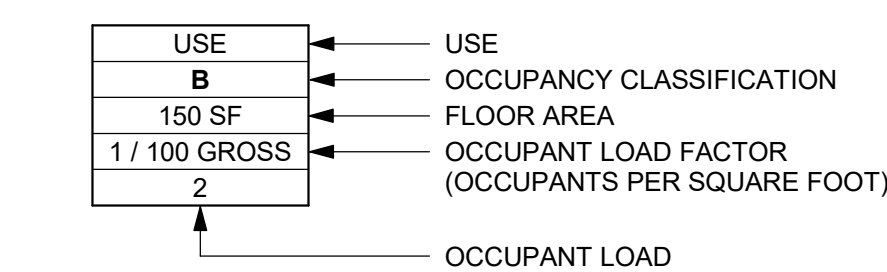
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LIFE SAFETY PLAN LEGEND

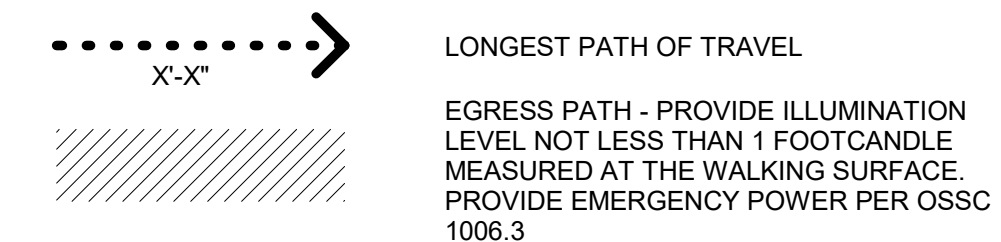
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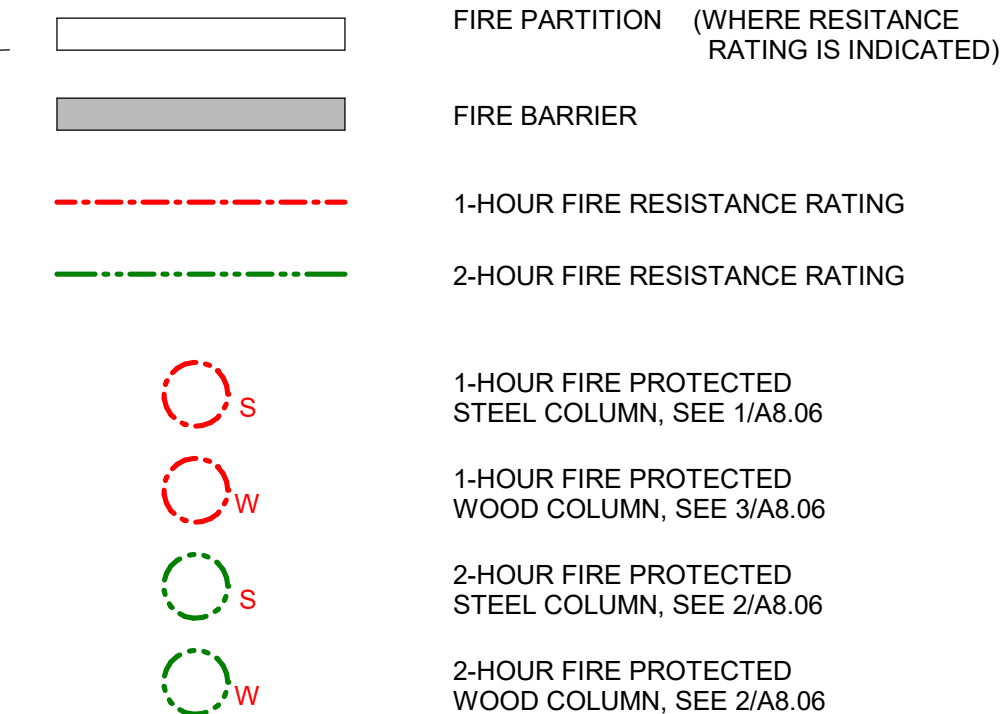
ROOM / SPACE OCCUPANCY TAG



EGRESS PATH



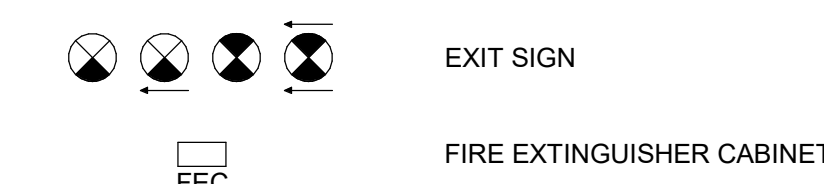
FIRE-RESISTANCE RATING



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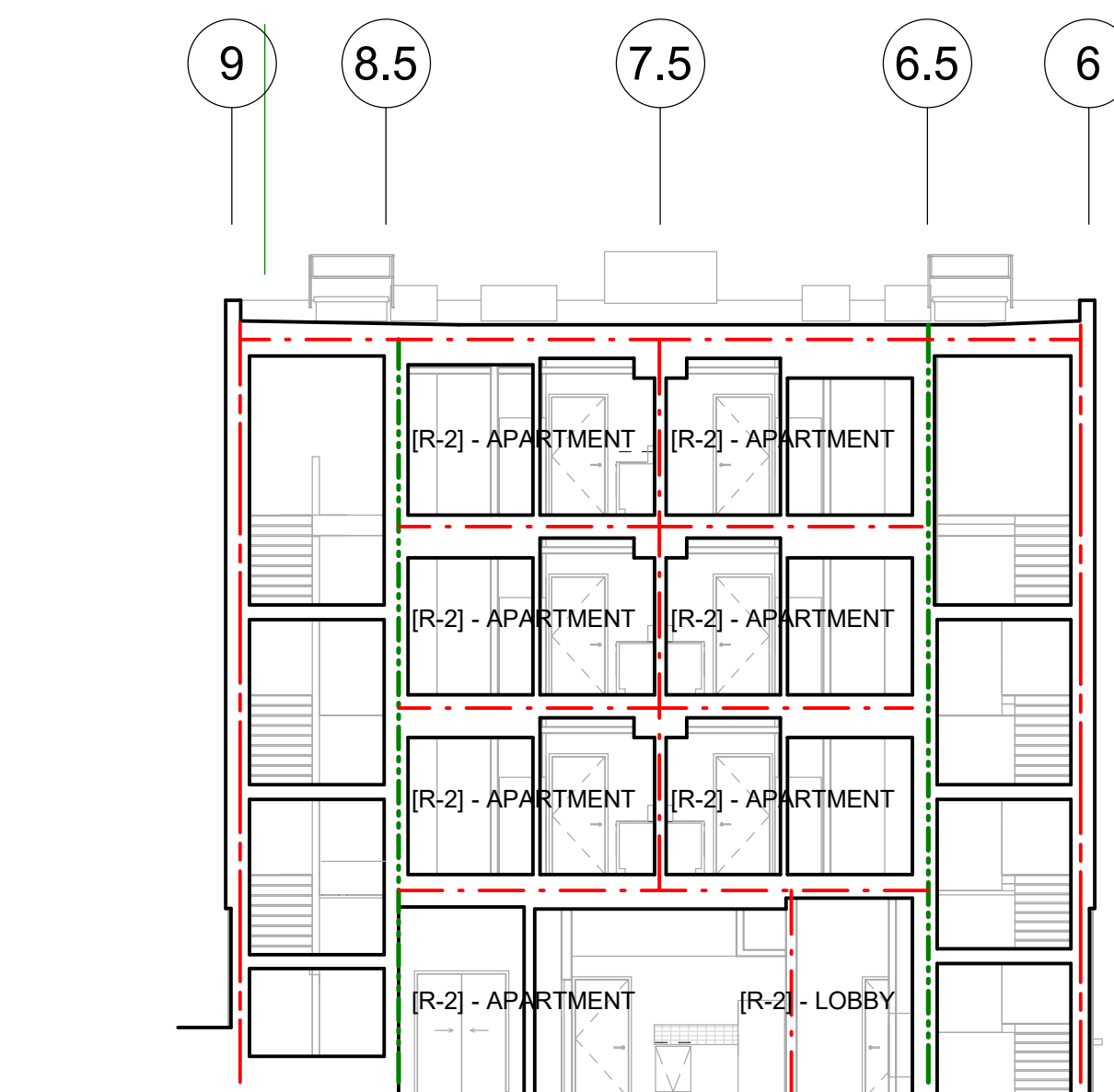
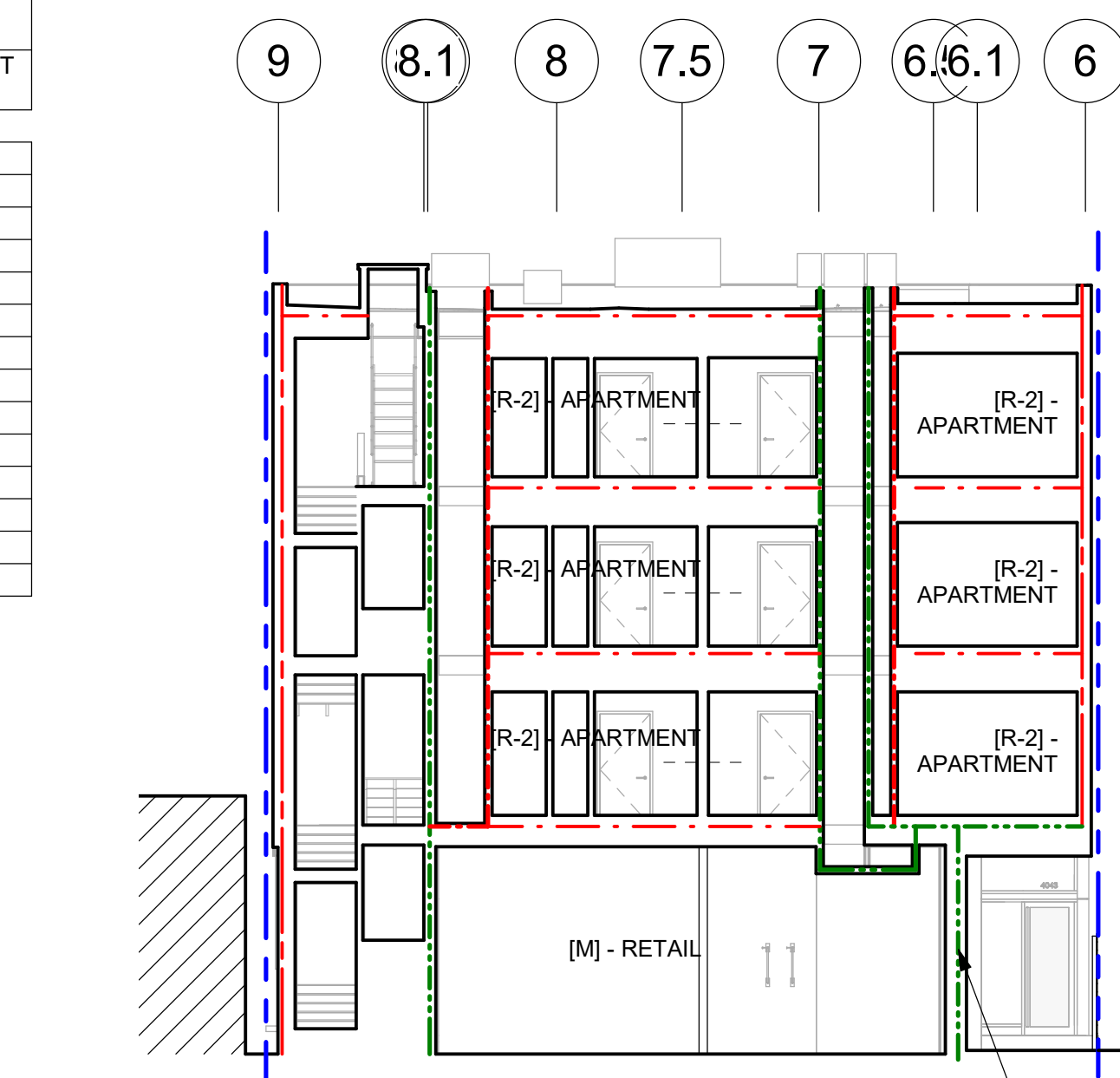
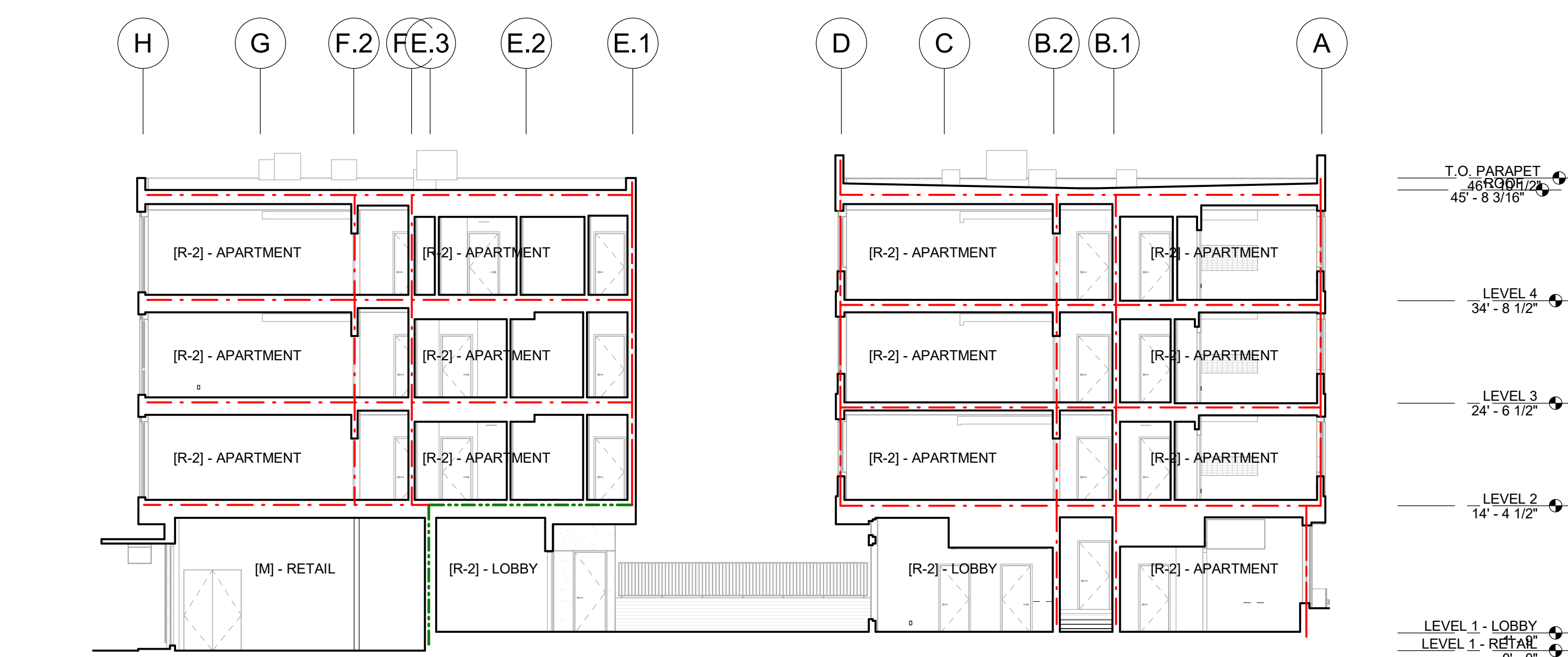
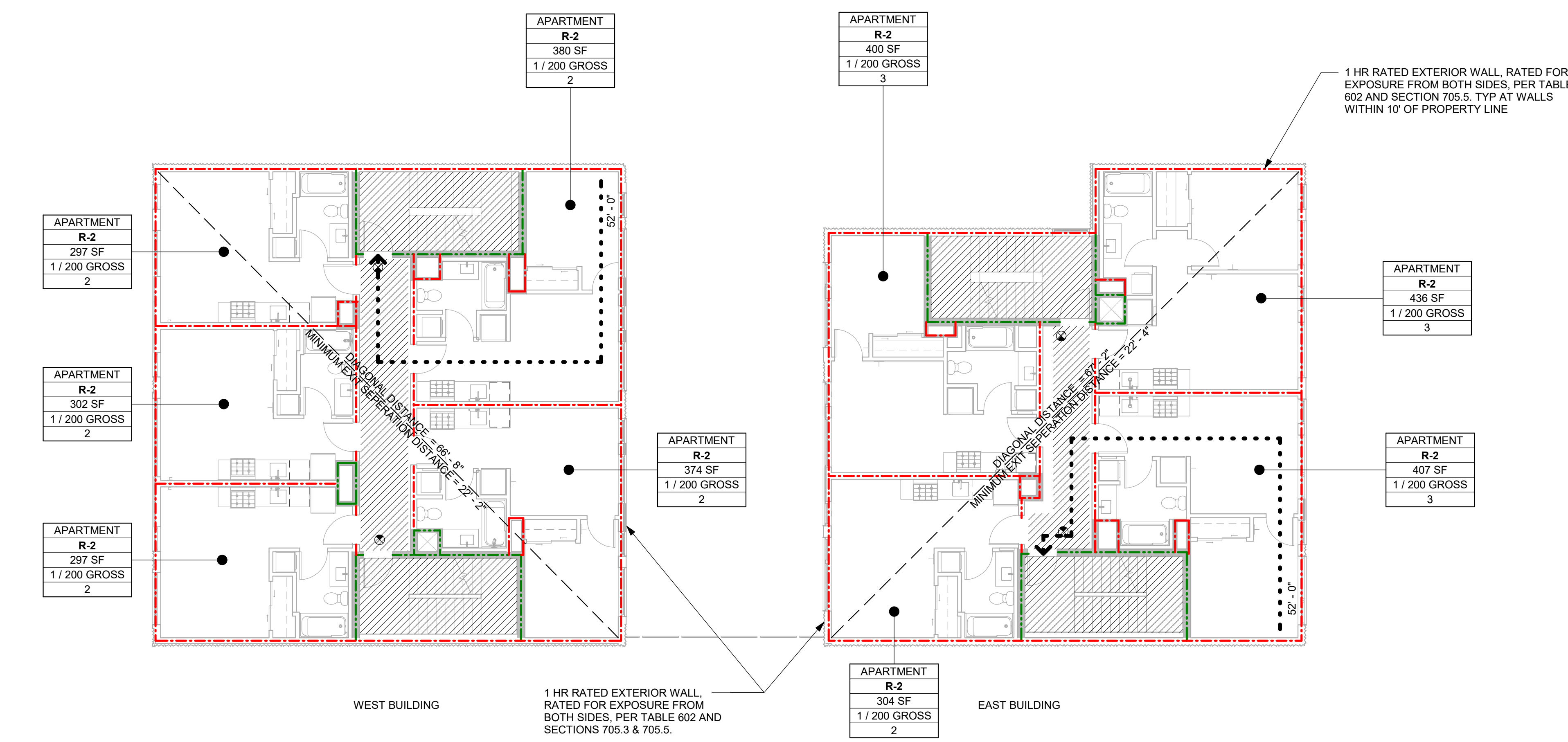
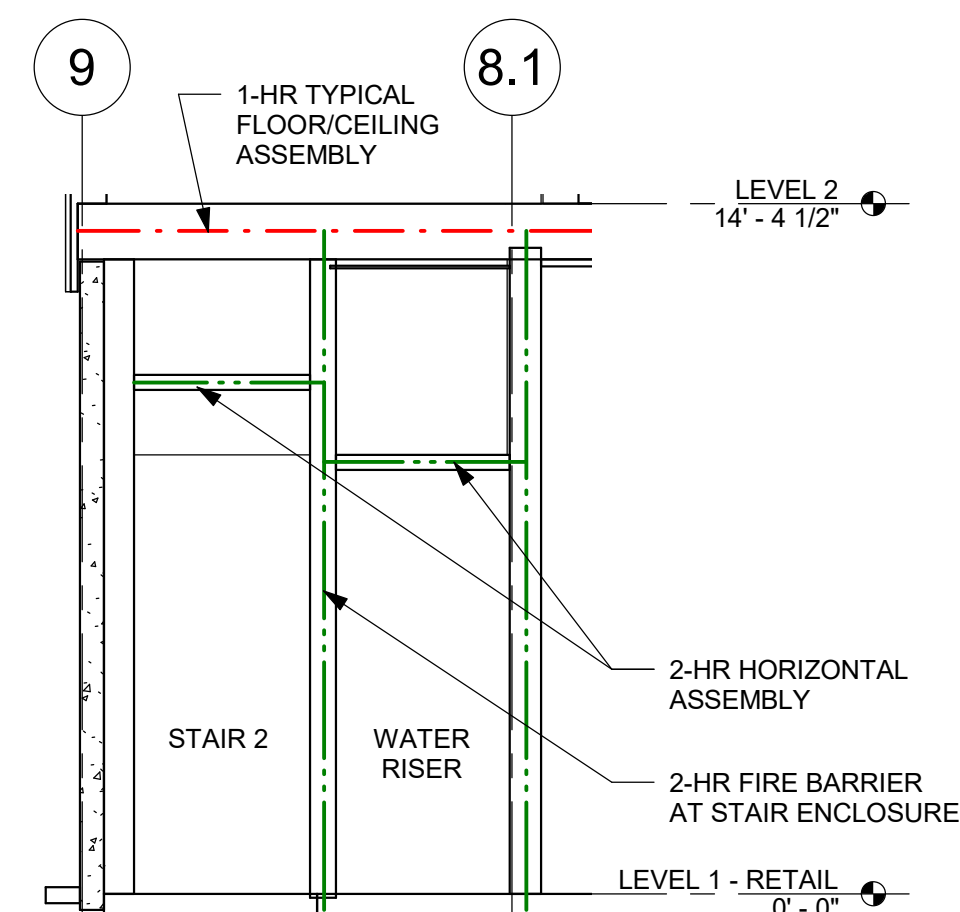
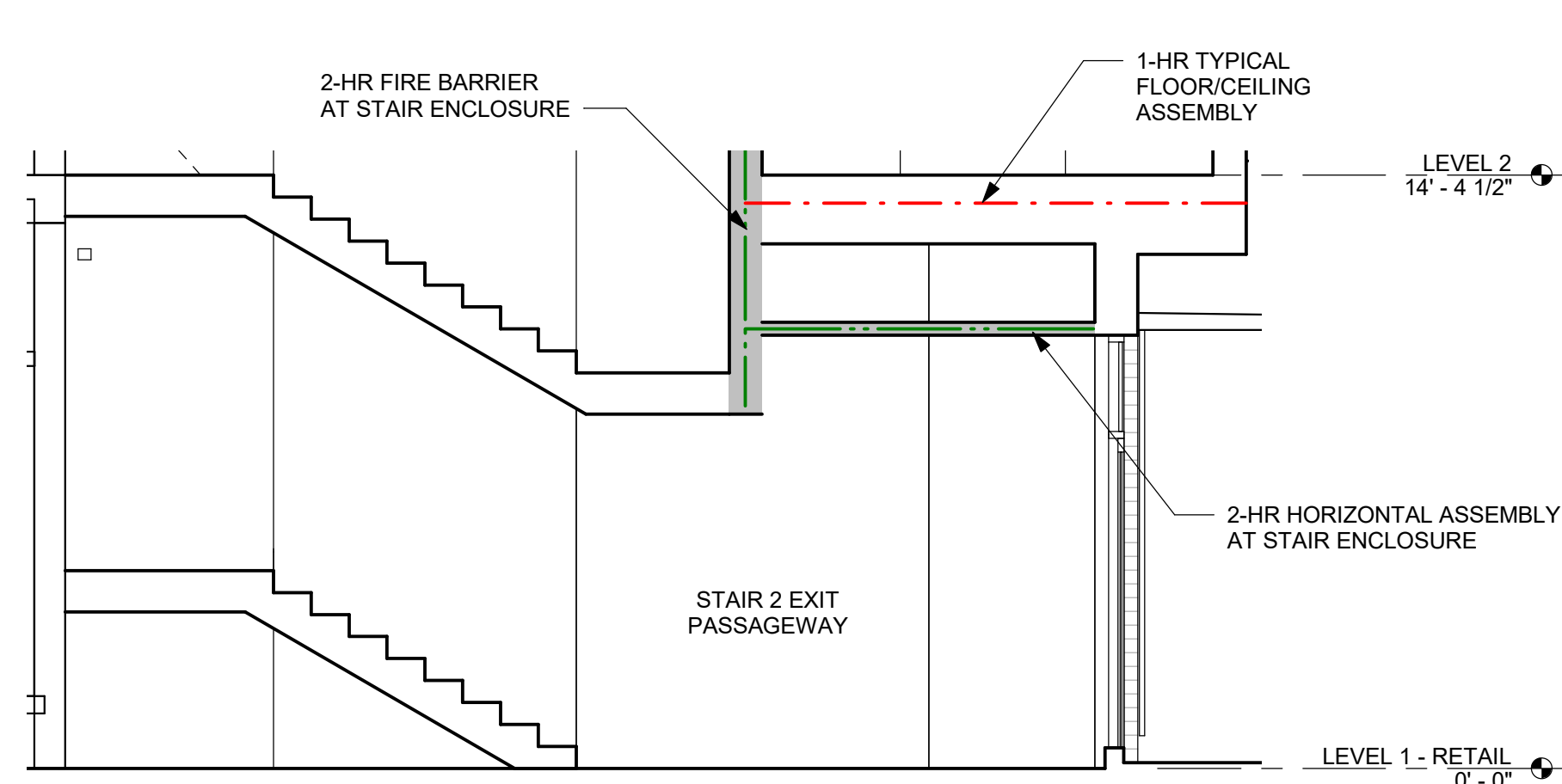
SYMBOLS



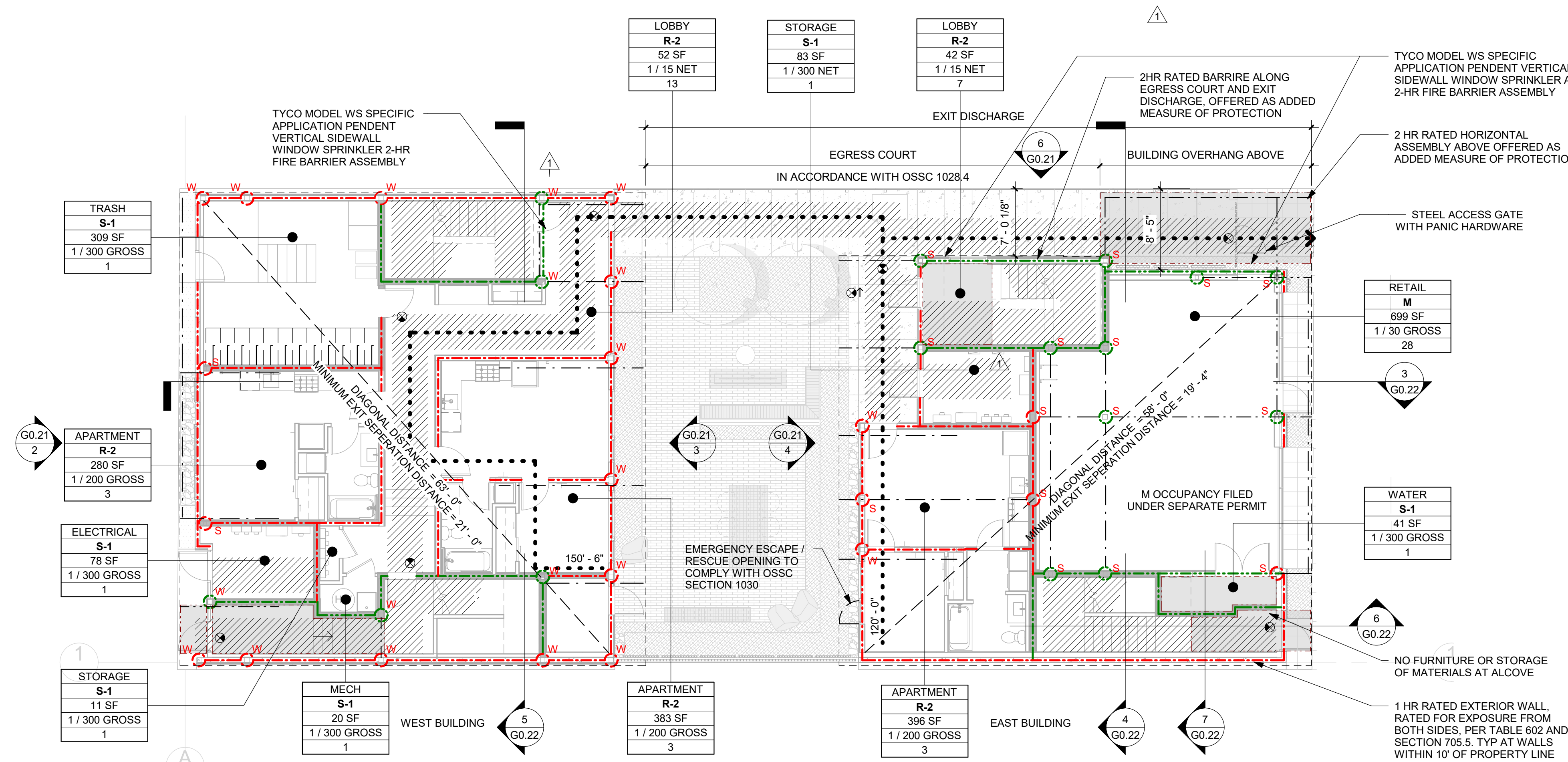
FIRE RATED PENETRATION GENERAL NOTES

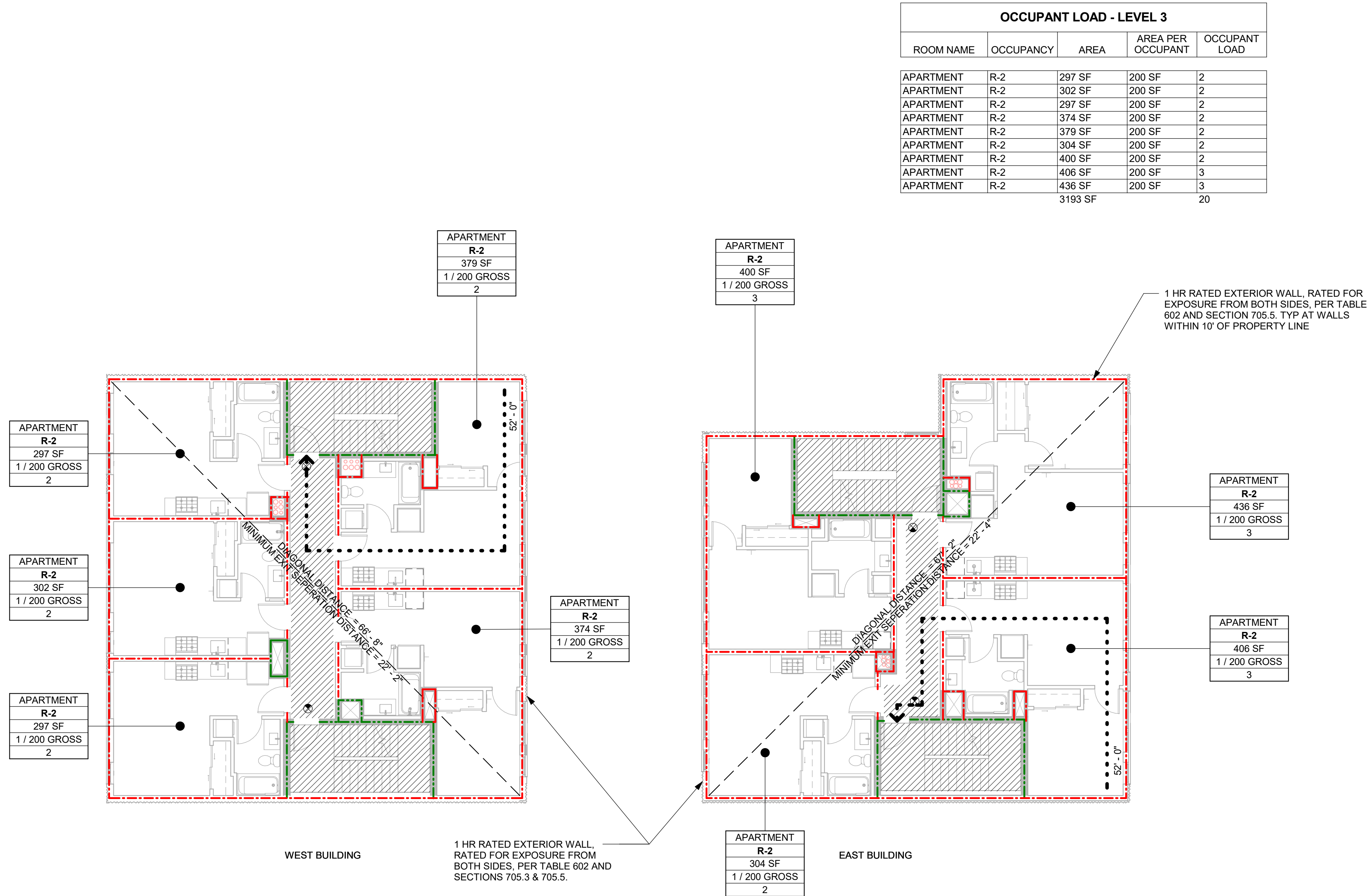
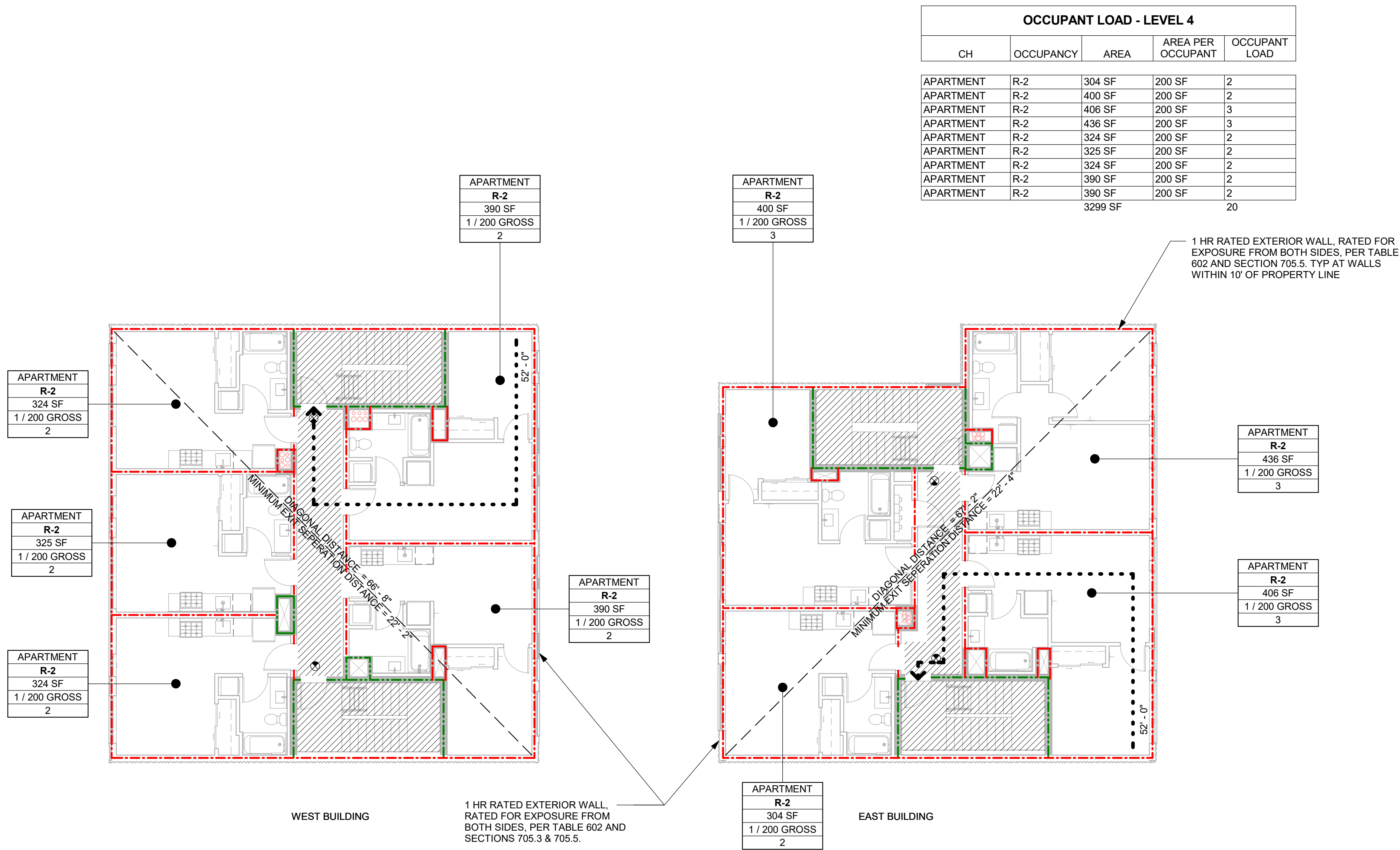
- SEE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF PENETRATIONS AT FIRE RATED ASSEMBLIES AND APPLICABLE PROTECTION.
- SEE A/8.02 FOR TYPICAL PENETRATION DETAILS.
- ALL BATHROOM FANS TO BE TESTED AND LISTED FOR USE IN FIRE-RESISTANCE RATED CEILINGS AND INSTALLED IN ACCORDANCE WITH THE LISTING INSTRUCTIONS.
- ALL LIGHTING AT FIRE-RESISTANCE RATED CEILINGS TO BE SURFACE MOUNTED.
- ANULAR AREAS OF ALL MEMBRANE PENETRATIONS TO BE 1/8" MAX UNLESS LISTED OTHERWISE.

OCCUPANT LOAD - LEVEL 2				
ROOM NAME	OCCUPANCY	AREA	AREA PER OCCUPANT	OCCUPANT LOAD
APARTMENT	R-2	380 SF	200 SF	2
APARTMENT	R-2	374 SF	200 SF	2
APARTMENT	R-2	297 SF	200 SF	2
APARTMENT	R-2	302 SF	200 SF	2
APARTMENT	R-2	297 SF	200 SF	2
APARTMENT	R-2	407 SF	200 SF	3
APARTMENT	R-2	304 SF	200 SF	2
APARTMENT	R-2	400 SF	200 SF	2
APARTMENT	R-2	436 SF	200 SF	3
		3195 SF		20

05 CODE BUILDING SECTION - WEST BUILDING
1" = 10'-0"04 CODE BUILDING SECTION - EAST BUILDING
1" = 10'-0"03 CODE BUILDING SECTION
1" = 10'-0"02 LEVEL 2 LIFE SAFETY PLAN
1/8" = 1'-0"07 SECTION - 2-HR RATING AT WATER RISER ROOM
1/4" = 1'-0"06 SECTION - 2-HR RATING AT EXIT PASSAGEWAY
1/4" = 1'-0"

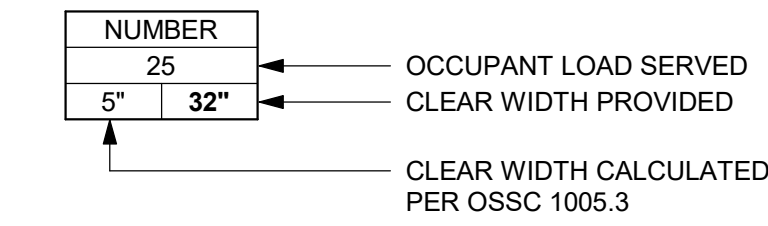
OCCUPANT LOAD - LEVEL 1				
ROOM NAME	OCCUPANCY	AREA	AREA PER OCCUPANT	OCCUPANT LOAD
Area		418 SF		
Area		49 SF		
RETAIL	M	699 SF	30 SF	24
APARTMENT	R-2	280 SF	200 SF	2
APARTMENT	R-2	383 SF	200 SF	2
APARTMENT	R-2	396 SF	200 SF	2
LOBBY	R-2	52 SF	15 SF	4
LOBBY	R-2	42 SF	15 SF	3
ELECTRICAL	S-1	78 SF	300 SF	1
MECH	S-1	20 SF	300 SF	1
STORAGE	S-1	11 SF	300 SF	1
STORAGE	S-1	83 SF	300 SF	1
TRASH	S-1	309 SF	300 SF	2
WATER	S-1	41 SF	300 SF	1
		2861 SF		44

01 LEVEL 1 LIFE SAFETY PLAN
1/8" = 1'-0"

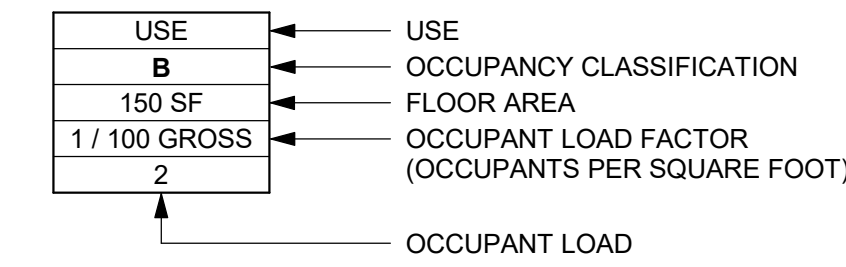


LIFE SAFETY PLAN LEGEND

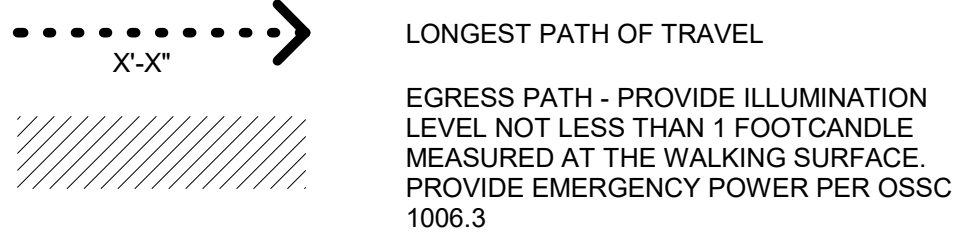
EGRESS COMPONENT TAG



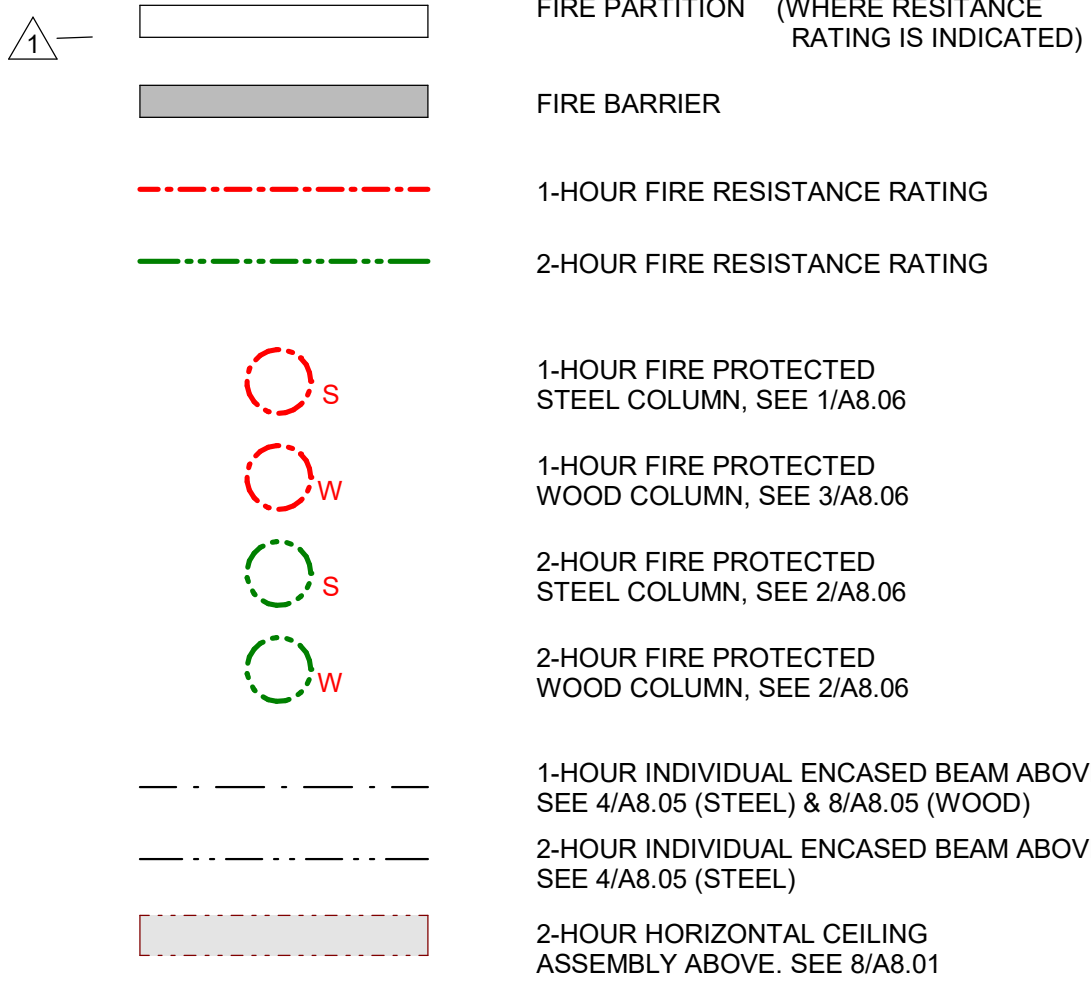
ROOM / SPACE OCCUPANCY TAG



EGRESS PATH



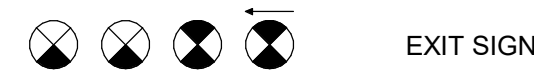
FIRE-RESISTANCE RATING



NOTE: WHERE FIRE RESISTANCE RATING IS INDICATED AT EXTERIOR WALLS, WALL IS TO BE CONSTRUCTED PER OSSC 705. SEE CODE PLANS FOR LOCATIONS WHERE RATING IS REQUIRED AT BOTH SIDES OF WALL.

NOTE: WHERE INDIVIDUAL ENCASEMENT IS NOT REQUIRED FOR BEAMS AND COLUMNS PER OSSC 704.4.1 & 704.4.2, FIRE RESISTANCE RATING IS TO BE PROVIDED BY THE MEMBRANE RATING OF THE HORIZONTAL ASSEMBLY OR WALL ASSEMBLY, RESPECTIVELY.

SYMBOLS



FIRE RATED PENETRATION GENERAL NOTES

- SEE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF PENETRATIONS AT FIRE RATED ASSEMBLIES AND APPLICABLE PROTECTION.
- SEE A/8.02 FOR TYPICAL PENETRATION DETAILS
- ALL BATHROOM FANS TO BE TESTED AND LISTED FOR USE IN FIRE-RESISTANCE RATED CEILINGS AND INSTALLED IN ACCORDANCE WITH THE LISTING INSTRUCTIONS.
- ALL LIGHTING AT FIRE-RESISTANCE RATED CEILINGS TO BE SURFACE MOUNTED.
- ANULAR AREAS OF ALL MEMBRANE PENETRATIONS TO BE 1/8" MAX UNLESS LISTED OTHERWISE

CITY STAMP

PROJECT

WILLIAMS 40

DRAWING TITLE
LIFE SAFETY
PLANS LEVELS 3
AND 4

REVISIONS

