HOME2 SUITES BY HILTON LEE'S SUMMIT, MO

PRINTS ISSUED

04/17/2024 - CITY SUBMISSION

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CIVIL ENGINEER

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EMAIL:

PHONE:

1 05/17/2024 CITY RESPONSE

PROJECT CERTIFICATION

I, (David E. Hendrikse), hereby specify pursuant to the governing requirements of the state, that the documents intended to be authenticated by my seal are limited to:

G-201	G-301	A-105	A-202	A-401	A-501	A-702
G-202	G-302	A-106	A-203	A-402	A-502	A-703
G-203	G-303	A-107	A-300	A-403	A-503	A-704
G-204	AS-100	A-120	A-301	A-404	A-504	A-705
G-205	AS-101	A-121	A-302	A-405	A-600	A-706
G-206	AS-102	A-122	A-303	A-406	A-601	A-707
G-207	AS-103	A-123	A-304	A-407	A-602	A-708
G-208	A-101	A-124	A-305	A-408	A-603	A-710
G-209	A-102	A-125	A-306	A-410	A-604	A-711
G-210	A-103	A-200	A-307	A-415	A-700	A-715
G-300	A-104	A-201	A-400	A-500	A-701	
	G-202 G-203 G-204 G-205 G-206 G-207 G-208 G-209 G-210	G-202 G-302 G-203 G-303 G-204 AS-100 G-205 AS-101 G-206 AS-102 G-207 AS-103 G-208 A-101 G-209 A-102 G-210 A-103	G-202 G-302 A-106 G-203 G-303 A-107 G-204 AS-100 A-120 G-205 AS-101 A-121 G-206 AS-102 A-122 G-207 AS-103 A-123 G-208 A-101 A-124 G-209 A-102 A-125 G-210 A-103 A-200	G-202 G-302 A-106 A-203 G-203 G-303 A-107 A-300 G-204 AS-100 A-120 A-301 G-205 AS-101 A-121 A-302 G-206 AS-102 A-122 A-303 G-207 AS-103 A-123 A-304 G-208 A-101 A-124 A-305 G-209 A-102 A-125 A-306 G-210 A-103 A-200 A-307	G-202 G-302 A-106 A-203 A-402 G-203 G-303 A-107 A-300 A-403 G-204 AS-100 A-120 A-301 A-404 G-205 AS-101 A-121 A-302 A-405 G-206 AS-102 A-122 A-303 A-406 G-207 AS-103 A-123 A-304 A-407 G-208 A-101 A-124 A-305 A-408 G-209 A-102 A-125 A-306 A-410 G-210 A-103 A-200 A-307 A-415	G-202 G-302 A-106 A-203 A-402 A-502 G-203 G-303 A-107 A-300 A-403 A-503 G-204 AS-100 A-120 A-301 A-404 A-504 G-205 AS-101 A-121 A-302 A-405 A-600 G-206 AS-102 A-122 A-303 A-406 A-601 G-207 AS-103 A-123 A-304 A-407 A-602 G-208 A-101 A-124 A-305 A-408 A-603 G-209 A-102 A-125 A-306 A-410 A-604 G-210 A-103 A-200 A-307 A-415 A-700

and I hereby disclaim any responsibility for all other plans, specifications, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural or engineering project or survey.

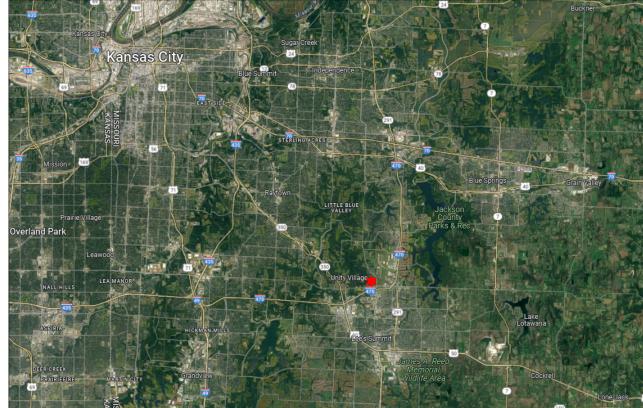
SEAL

DAVID E. HENDRIKSE, AIA

REGIONAL MAP



VICINITY MAP



HOME2 SUITES BY HILTON 251 NE ALURA WAY LEE'S SUMMIT, MISSOURI 64064



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■ 04/17/24 G-003	PLAN GENERAL NOTES & KEYNOTES		
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	0.4/47/0.4	EL401	ENLARGED LIGHTING PLAN - GUEST ROOMS		
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<u> </u>	04/17/24	FS101	FIRE ALARM AND SECURITY PLAN - FIRST FLOOR		
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	04/17/24 04/17/24 04/17/24 04/17/24 04/17/24	FS101 FS102 FS103 FS104 E501 E601	FIRE ALARM AND SECURITY PLAN - SECOND FLOOR FIRE ALARM AND SECURITY PLAN - THIRD FLOOR FIRE ALARM AND SECURITY PLAN - FOURTH FLOOR ELECTRICAL DETAILS & SCHEDULES ELECTRICAL SCHEDULES		

■ 04/17/24 A-715 FINISH TRANSITION DETAILS

PROJECT DESIGN INFORMATION **NEW CONSTRUCTION:** ZONING: PMIX - PLANNED MIXED USE DISTRICT CODE: 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRIC CODE 2009 ACCESSIBILITY CODE ICC/ANSI 117-1 LEE'S SUMMIT AMENDMENTS TO ENERGY CODE NFPA 72 & NFPA 13 / 13R OCCUPANCY GROUP: R-1, HOTEL TRANSIENT A-2, UNCONCENTRATED A-4, SWIMMING POOL B, BACK OF HOUSE TYPE OF CONSTRUCTION: **ENERGY CONSERVATION:** WALLS AS PART OF BLDG ENVELOPE R-11 FLOORS AS PART OF BLDG ENVELOPE R-19 ROOFS AS PART OF BLDG ENVELOPE R-19 CEILINGS AS PART OF BLDG ENVELOPE R-30 **BUILDING SUMMARY** NUMBER: 1 TOTAL BUILDING HEIGHT: 4 STORIES, 49'-0" **SQUARE FOOTAGES**: <u>GROSS</u> FIRST FLOOR 16,402 S.F. SECOND FLOOR 14,828 S.F. 14,529 S.F. THIRD FLOOR 14,828 S.F. FOURTH FLOOR 14,828 S.F. 14,529 S.F. **107 TOTAL UNITS UNIT SUMMARY**: (4) UNITS - ACC. KING ONE BEDROOM ACCESSIBLE UNITS (2) UNITS - ACC KING STUDIO (1) UNITS - ACC. QUEEN QUEEN STUDIO HI/VI UNITS (1) UNITS - KING ONE BEDROOM (1) UNITS - QUEEN QUEEN STUDIO TYPE 'B' UNITS (74) UNITS - KING STUDIO (6) UNITS - KING STUDIO CONNECTING (3) UNITS - KING ONE BEDROOM (11) UNITS - QUEEN QUEEN STUDIO **TOTAL UNITS SQUARE FOOTAGE:** GROSS NET KING STUDIO KING STUDIO CON. 380 S.F. ACC. KING STUDIO 600 S.F.

PROJECT DATA

KING ONE BED

SITE SUMMARY:

ACC. KING ONE BED

QUEEN QUEEN CON.

ACC. QUEEN QUEEN

NOTE: SQUARE FOOTAGE

QUEEN QUEEN STUDIO 474 S.F.

REFERENCE CIVIL FOR SITE INFORMATION

			PLUMBING		
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•	04/17/24	PW103	WATER & GAS PLAN - THIRD FLOOR		
•	04/17/24	PW104	WATER & GAS PLAN - FOURTH FLOOR	1	05/17/2024
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-GROSS - COMMON SPACE CALCULATION: OUTSIDE PERIMETER OF STUD (ENTIRE

BUILDING) LESS THE TOTAL OF THE GROSS UNIT SQUARE FOOTAGE PER FLOOR. <u>-GROSS - UNIT CALCULATION:</u> CENTERLINE OF PARTY WALL TO OUTSIDE OF

EXTERIOR STUD WALL AND/OR OUTSIDE OF CORRIDOR STUD WALL.

<u>-NET</u> - PAINT-TO-PAINT AT PERIMETER, TAKEN FROM INSIDE OF DEMISING, EXTERIOR, AND CORRIDOR WALLS.

576 S.F.

456 S.F.

600 S.F. 562 S.F.

439 S.F.

SOLID FILL INDICATES INCLUSION IN ISSUE SHEET ISSUE DATE A-000 SHEET NAME - 10 / 10/ 2024 **■** 10 / 10/ 2024 SHEET NUMBER AND NAME SHEET INDEX LEGEND CURRENT REVISION NUMBER

& REVISION DATE ON SHEET

 \Box **HOME2**

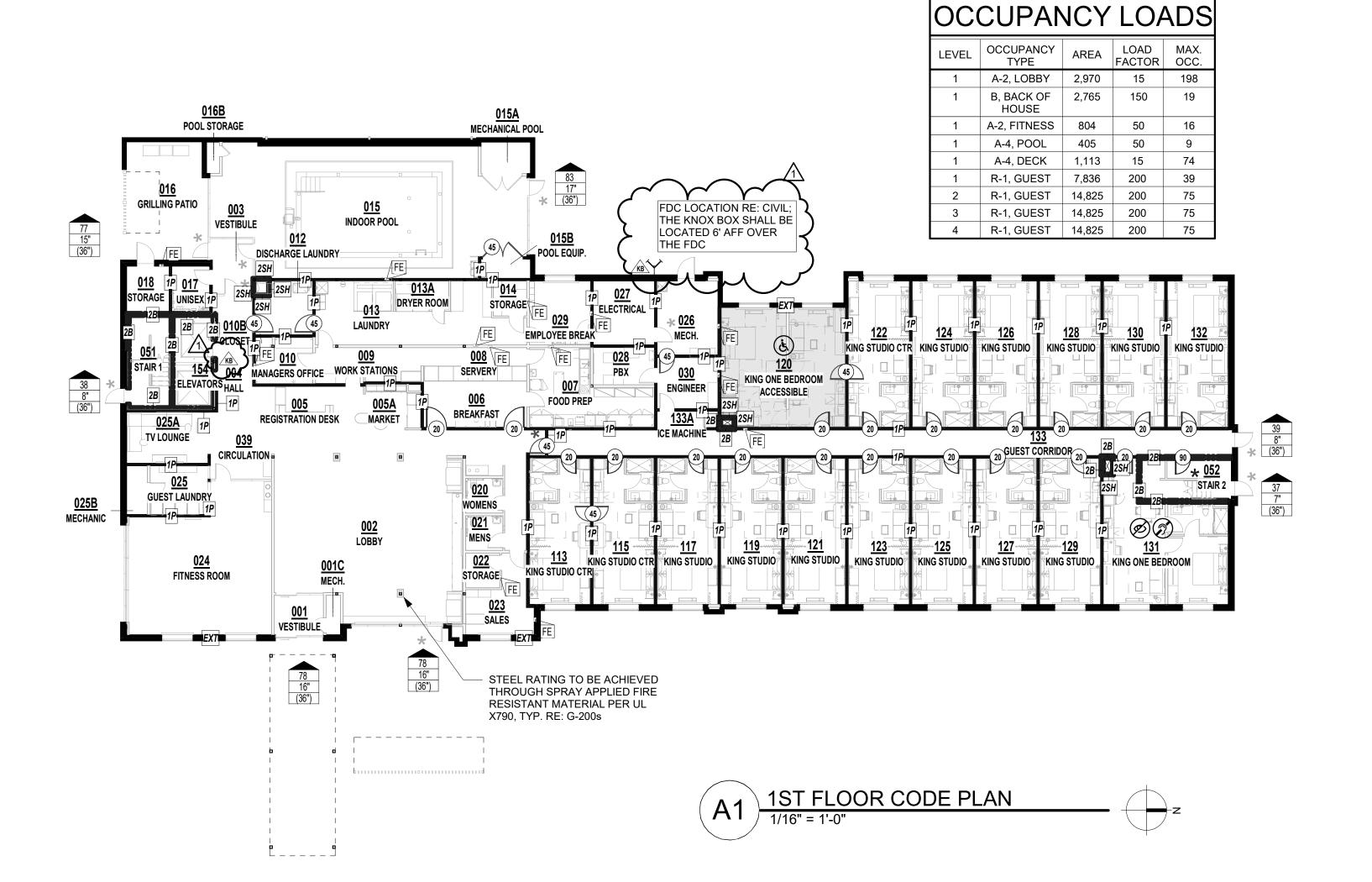
SHEET TITLE TITLE SHEET

PROJECT NUMBER: 22023

SHEET NUMBER:

CODE PLAN GENERAL NOTES:

- 1. FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET. GENERAL CONTRACTOR TO PROVIDE SEMI-RECESSED FIRE EXTINGUISHER CABINETS WITH FIRE EXTINGUISHERS THROUGHOUT AT ACCESSIBLE HEIGHT.
- 2. SIGNS IDENTIFYING FIRE PROTECTION EQUIPMENT, CONTROLS FOR AIR CONDITIONING SYSTEMS, SPRINKLER RISERS AND VALVES, OR OTHER FIRE DETECTION, SUPPRESSION OR CONTROL ELEMENTS SHALL BE IDENTIFIED FOR THE USE OF THE FIRE DEPARTMENT PER 2018 IBC. SIGNAGE SHALL ALSO MEET 2018 IFC REQUIREMENTS FOR HEIGHT AND LETTERING. GC TO COORDINATE WITH AUTHORITY HAVING JURISDICTION ON ALL
- 3. KNOX BOX QUANTITY AND LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION.
- 4. ANNUNCIATOR PANEL AND FACP QUANTITY AND LOCATION TO BE COORDINATED BY THE GENERAL CONTRACTOR WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALL.
- 5. ALL DIMENSIONS ARE APPROXIMATE ON CODE PLAN. ACTUAL ARCHITECTURAL DIMENSIONS PER ARCHITECTURAL AND STRUCTURAL PLAN.



; [CODE REVIEW								
	PROJECT NAME: PROJECT LOCATION: CODE:	HOME2 SUITES BY HILTON LEE'S SUMMIT, MO 2018 IBC		CHAPT	ER SEVEN				
	CODE REVIEW COMPLETED BY:	A.J. DOLPH		704 FIRE-RESISTANCE RATING	1 HOUR RATED				
	CHAPT	ER THREE		OF STRUCTURAL MEMBERS: 705.5 EXTERIOR WALLS	SPRAY APPLIED FIRE RESISTANT MATERIAL FIRE SEPARATION DISTANCE > 10'-0"				
-				FIRE-RESISTANCE RATING:	RATED EXPOSURE FROM INSIDE ONLY				
	SECTION 302 OCCUPANCY:	R-1, HOTEL TRANSIENT(UNITS) A-2, UNCONCENTRATED (LOBBY)		TABLE 705.8 MAX AREA OF	FIRE SEPARATION DISTANCE > 25'-0"				
		A-4, SWIMMING POOL B, BUSINESS (BOH)	ŀ	EXTERIOR WALL OPENINGS: 706 FIRE WALLS:	UNPROTECTED, NO LIMIT N/A				
ŀ		<u> </u>		707 FIRE BARRIERS:	2 HOUR RATED				
L	CHAP	TER FOUR		708 FIRE PARTITIONS:	1 HOUR RATED				
	402 COVERED MALL BUILDINGS:	N/A 416 FLAMMABLE FINISHES:	N/A	709 SMOKE BARRIERS:	1 HOUR-ELEVATOR LOBBY				
	403 HIGH RISE BUILDINGS: 404 ATRIUMS:	N/A 417 DRYING ROOMS: N/A 418 ORGANIC COATINGS:	N/A N/A	710 SMOKE PARTITIONS:	N/A, NO RATING REQ.D				
	405 UNDERGROUND BUILDINGS: 407 GROUP I-2:	N/A 419 LIV/WORK UNITS: N/A 421 HYDROGEN FUEL GAS ROOMS	N/A S: N/A	711 FLOOR & ROOF ASSEMBLIES:	1 HOUR RATED				
	408 GROUP I-3: 409 MOTION PICTURE PROJECTION:	N/A 422 AMBULATORY CARE FACILITY:	-	712 VERTICAL OPENINGS:	N/A				
	410 STAGES AND PLATFORMS:	N/A 424 CHILDREN'S PLAY STRUCTURE	E: N/A	713 SHAFT ENCLOSURES:	2 HOUR RATED				
	411 SPECIAL AMUSEMENT BUILDINGS 412 AIRCRAFT RELATED OCCUP:	N/A 426 COMBUSTIBLE DUSTS & GRAIN		714 PENETRATIONS:	MATCH ASSEMBLY RATING				
	413 COMBUSTIBLE STORAGE: 414 HAZARDOUS MATERIALS:	N/A 427 MEDICAL GAS SYSTEMS: N/A 428 HIGHER EDUCATION LAB:	N/A N/A	715 FIRE-RESISTANT JOINT SYSTEM:	MATCH ASSEMBLY RATING				
IER	415 GROUPS H-1, H-2, H-3, H-4, H-5:	N/A		TABLE 716.1(2) OPENING FIRE PROTECTION & RATING:	2 HOUR SHAFT: 90 MINUTE DOOR				
	420 GROUPS I-1, R-1, R-2, R-3, & R-4: 420.2 SEPARATION WALLS:	WALLS SEPARATING SLEEPING UNITS TO	O RE		1 HOUR FIRE BARRIER: 60 MINUTE DOOR 1 HOUR CORRIDOR: 20 MINUTE DOOR				
	420.2 SEFARATION WALLS.	FIRE PARTITIONS PER SECTION 708	O BL	717 DUCTS AND AIR	REQUIRED AT RATED PENETRATIONS,				
	420.3 HORIZONTAL SEPARATION:	FLOORS SEPARATING SLEEPING UNITS THORIZONTAL ASSEMBLY PER SECTION 7		TRANSFER OPENINGS:	1.5 HOUR DAMPER RATING				
	420.4 AUTOMATIC SPRINKLER:	13R PER 903.3.1.2 IN GROUP R		SECTION 718 CONCEALED SPACES:	FIREBLOCK & DRAFTSTOP				
ŀ				CHAP	TER NINE				
ļ	CHAP	TER FIVE		903 AUTOMATIC SPRINKLER SYSTEM:					
	TABLE 504.3 ALLOWABLE HEIGHT IN FEET ABOVE GRADE PLANE:	CONSTRUCTION TYPE VA R: ACTUAL: 48'-8" ALLOWABLE:	60'-0"		A-2, REQUIRED: NFPA 13 (REQ'D. >5,000 SQFT) B, REQUIRED: NFPA 13				
	. 22.7.65072 6.0.652 / 2.0.42.	A: ACTUAL: 13'-3" ALLOWABLE: B: ACTUAL: 13'-3" ALLOWABLE:	70'-0"	905 STANDPIPE SYSTEM:	CLASS I REQUIRED				
₹ -	TABLE 504.4 ALLOWABLE NUMBER OF		70-0	906 PORTABLE FIRE EXTINGUISHERS:	: REQUIRED PER NFPA 10, 75'-0" MAX TRAVEL				
`	STORIES ABOVE GRADE PLANE:	R-1: ACTUAL: 4 ALLOWABLE: 4 ST A-2: ACTUAL: 1 ALLOWABLE: 3 ST		907 FIRE ALARM & DETECTION SYSTEM:	REQUIRED PER NFPA 72				
		A-4: ACTUAL: 1 ALLOWABLE: 3 ST	TORIES	909 SMOKE CONTROL SYSTEM:	COMPLY WITH IMC				
_ ├	TABLE 506.2 ALLOWABLE	B: ACTUAL: 1 ALLOWABLE: 4 ST	IURIES	CHAD	TER TEN				
	AREA FACTOR:	R-1: ACTUAL:14,825 ALLOWABLE: 12,0 A-2: ACTUAL:6,620 ALLOWABLE: 11,5	500 SQFT		ILIXILIN				
		A-4: ACTUAL: 1,500 ALLOWABLE: 11,5	500 SQFT	TABLE 1004.5 MAX FLOOR AREA ALLOWANCES PER OCCUPANT:	R-1, 200 GROSS				
	506.2.4 MIXED-OCCUPANCY, MULTISTORY BUILDING:	Aa = [At + (NS x lf)] Aa = [12,000 + (12,000 x 0.75)]			A-2, 15 NET A-4, 50 GROSS-SWIMMING POOL				
		Aa = 21,000 SQFT, ALLOWABLE			A-4, 15 GROSS-POOL DECK B, 150 GROSS				
	506.33. AMOUNT OF INCREASE:	If = [F/P - 0.25]W/30		SECTION 1005 MEANS OF	STAIRS 0.2/OCC., W/ SPRINKLER EXCEPTION				
		If = [575/575 - 0.25]30/30 If = 0.75	-	EGRESS SIZING: TABLE 1006.2.1 SPACES WITH ONE	OTHER EGRESS 0.15/OCC., W/ SPRINKLER EXCP.				
	TABLE 508.4 REQUIRED SEPARATION			EXIT OR EXIT ACCESS DOORWAY:	R-1: 10 OCC., 75' MAX. PATH OF EGRESS				
	OF OCCUPANCIES:	R - R: 1 HOUR R - A: 1 HOUR			A: 49 OCC., 75' MAX. PATH OF EGRESS B: 49 OCC., 100' MAX. PATH OF EGRESS				
		R - B: 1 HOUR A - A: 0 HOUR		TABLE 1006.3.2 MINIMUM					
		A - B: 1 HOUR B - B: 0 HOUR		NUMBER OF EXITS PER STORY:	2 EXITS REQ.D W/ OCCUPANT LOAD/STORY 1-500				
-	TABLE 509 INCIDENTAL USES:	LAUNDRY > 100 SF, 1HR		1009.3.3 AREA OF REFUGE: 1009.3.3 AREA OF REFUGE:	NOT REQUIRED W/ SPRINKLER EXCEPTION NOT REQUIRED W/ SPRINKLER EXCEPTION				
		STORAGE > 100 SF, 1HR		1009.3.3 AREA OF REFUGE. 1009.8 TWO-WAY COMMUNICATION:	REQ'D. AT EACH ELEV. LANDING ABOVE GRADE				
f	СНД	PTER SIX		1011.2 STAIRWAY WIDTH CAPACITY:	44" MIN.				
-		1 - 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1011.12 STAIRWAY TO ROOF:	UNOCCUPIED ROOF, ACCESS VIA ROOF HATCH				
	TABLE 601 FIRE RESISTANCE REQS. FOR BUILDING ELEMENTS (HOURS):			1014.2 HANDRAIL HEIGHT:	34" MIN 38" MAX.				
		PRIMARY STRUCUTRAL FRAME: 1 HOU INTERIOR BEARING WALL: 1 HOU	JR	1014.6 HANDRAIL EXTENSIONS:	EXTEND HORIZONTALLY 12" BEYOND TOP RISER				
		EXTERIOR BEARING WALL: 1 HOU NON-BEARING WALL: 0 HOU		1014.6 HANDRAIL EXTENSIONS:	CONTINUE SLOPE 1 DEPTH TREAD AT BOTTOM EXTEND HORIZONTALLY 12" BEYOND TOP RISER				
		FLOOR CONSTRUCTION: 1 HOU ROOF CONSTRUCTION: 1 HOU	JR		CONTINUE SLOPE 1 DEPTH TREAD AT BOTTOM				
	TABLE 602 FIRE RESISTANCE	THE STATE OF THE S		1015 GUARDS:	42" MIN. HEIGHT, 4" MAX. OPENING				
	REQS. FOR EXTERIOR WALLS	ALIQUE VOLETT AV ON EFFT		TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE:	R: 250' W/ 13R SPRINKLER				
- }	BASED ON FIRE SEP. DISTANCE:	0 HOUR <30 FEET, 0 >30 FEET			A: 250' W/ 13 SPRINKLER B: 300' W/ 13 SPRINKLER				
	CODE PLAN	LEGEND		1019 EXIT ACCESS STAIRWAYS:	2 HOUR RATED PER 713				
Ī	_		-	TABLE 1020.1 CORRIDOR RATING:	R: 1/2 HOUR RATED W/ 13R SPRINKLER				
	100	OCCUPANTS EXITING	1		A: NO RATING REQ.D W/ 13 SPRINKLER B: NO RATING REQ.D W/ 13 SPRINKLER				
	20" REQUIRED EX	ROVIDED BY DESIGN	ŀ	1020.1.1 HOISTWAY					
		PARTITION (IBC CH. 6)	-	OPENING PROTECTION: TABLE 1020.2 MIN. CORRIDOR WIDTH:	REQUIRED PER 3006.2				
	NON - RATED	PARTITION	-	1020.4 DEAD ENDS:	20'-0" MAX.				
	— 1₽ ——— 1₽ — 1 HR RATED F	PARTITION (IBC 708)	F						
		BARRIER (IBC 707)		CHAPII	ER ELEVEN				
		FIRE OR SMOKE BARRIER (IBC 709)			S CH. OF IBC, ICC A117.1, ADA, & FAIR HOUSING				
		, , ,		TABLE 1106.1 ACC. PARKING:	(107) TOTAL PARKING STALLS, (7) REQ.D ACC.				
	2SH 2SH 2 HR RATED S	SHAFT ENCLOSURE (IBC 713)		TABLE 1107.6.1.1 ACCESSIBLE DWELLING & SLEEPING UNITS:	(107) TOTAL UNITS, (7) REQ.D ACC.				
	404 DOOM NILIMBE		 						

ROOM NUMBER

DOOR RATING

FIRE EXTINGUISHER CABINET

FIRE DEPARTMENT KNOX BOX (DEFER SUBMITTAL FOR LOC.)

FIRE DEPARTMENT CONNECTION

DOOR WITH PANIC HARDWARE

EXIT SIGNAGE; SEE ELECTRICAL

- EGRESS DISTANCE OF TRAVEL - EGRESS DIRECTION OF TRAVEL

(SEE DOOR SCHEDULE)

- EGRESS STARTING POINT

OR SURFACE MTD. AT CONC.

CODE REVIEW

PRINTS ISSUED 04/17/2024 - CITY SUBMISSION

50STC RATING BETWEEN SLEEPING UNITS

SMOKE & DRAFT CONTROL DOOR PER UL 1784

PROVIDED AT EACH ELEVATOR HOISTWAY DOOR

CHAPTER TWELVE

CHAPTER THIRTY

HOISTWAY OPENING PROTECTION: HOISTWAY OPENING PROTECTION REQUIRED

1206 SOUND TRANSMISSION:

3006 ELEVATOR LOBBIES AND

3006.3 HOISTWAY OPENING PROTECTION: **REVISIONS:** 1 05/17/2024 CITY RESPONSE

 \Box HOME

SHEET TITLE CODE ANALYSIS

SHEET NUMBER:

 $S_{DS} = 0.086$

Basic Seismic Force Resisting System(s)

Design Base Shear, $V = C_s \times W = 160 \text{ kips}$

100 Year 15 min. Rain Intensity (i) = 7.5 in/hr

a. Soil properties are based on the project geotechnical report entitled

August 08, 2023 (herein known as "Geotechnical Report").

Cohesive Material, at Rest (Drained):

Granular Material, at Rest (Drained):

project, which includes the following components and systems:

Load-bearing wood wall and opening framing.

d. Handrails – see S001 "Design Criteria" for applicable loading.

Plywood sheathing on dimensional lumber wood floor and roof joists.

a. Requirements for fire rating of assemblies or fire protection of structural members

Any exterior slabs, bollards, curbs, and any enclosures not shown on these drawings.

e. Shoring design, formwork design, temporary bracing, and other means and methods items

Mechanical screen walls (screen walls shall be supported off of mechanical unit curbs)

All premanufactured canopy and awning framing including connections to the structure.

3. The following items are specifically excluded from McClure's design scope as represented on these drawings:

a. Structural steel connections – see general notes section "Structural Steel".

Cohesive Material, at Rest (Undrained):

Cantilever deflection limits are the more restrictive of 2 x the appropriate L/---

limit (e.g. 2L/360 = L/180) or absolute maximum value listed above, measured at

Geotechnical Engineering Report Discovery Park Lot 2, prepared by Olsson on

Soil Site Class:

Analysis Procedure

Typical Floor Joists/Trusses

Wall Framing (flexible finish)

Wall Framing (brittle/brick finish)

the tip of the cantilever U.N.O.

Roof Joists/Trusses

b. Lateral Earth Pressure:

c. Allowable Soil Bearing Pressure

a. Shallow concrete foundations.

b. Slabs on grade.

c. Building Framing:

these drawings*:

B. STRUCTURAL ENGINEERING DESIGN NARRATIVE

CMU stair and elevator towers

drawings and the Project Specifications.

d. Interior non-load-bearing walls or furring

b. Global stability of soil mass

d. Structural steel framing identified on the drawings.

f. Rain Load

4. Soil Properties:

Allowable Deflections

Seismic Design Category

 $S_{D1} = 0.068$

R = 6.5 $\Omega_0 = 3.0$ $C_s = 0.013$ $C_D = 4.0$

R = 2.0 $\Omega_0 = 2.5$ $C_s = 0.043$ $C_D = 2.0$

 Ω_0 Reduced to 2.0 per ASCE 7-16 Table 12.2-1 Footnote b.

Wood Walls with Wood Structural Panels (ASCE 7 Table 12.2-1 Line A.15)

(Ω_0 reduced to 2.5 per ASCE 7-16 Table 12.2-1 footnote b) Wood Walls with Panels of other Materials (Gypsum) (ASCE 7 Table 12.2-1 Line A.17)

Total Load

L/240

= 71 pcf

= 97 pcf

= 56 pcf

. McClure Engineering Company (McClure, MEC) is the Structural Engineer of Record (EOR) responsible for the documentation of structural

e. The lateral force resisting system of the structure consisting of sheathed wood structural walls, wood sheathing diaphragms.

2. The following items are Deferred Submittals. Framing intent and additional requirements for these structural components are provided within

* Reference section "D. Submittal Requirements." Coordinate requirements of these drawings with those of other design consultant

b. Wood roof/floor trusses – see general notes section "Wood Framing and Fastening" / see S001 and S002 for applicable design criteria.

design criteria, strength and stability of the primary vertical and lateral load-carrying systems in their completed form, and conformance of the structural design to the applicable building codes. These drawings produced by McClure convey the structural engineering design for the

= 2,500 psf

L/360

= Equivalent Lateral Force Procedure (ASCE 7-16 Chapter 12.8)

Live/Snow/Wind Load

L/360

L/360

L/600

L/480

Absolute Maximum

0.75"

0.5"

for basic coordination with these drawings and to verify that all the required components of the submittal are incorporated. The

that the submittal is incomplete or unacceptable and that resubmission is required.

Submittals requiring engineering calculations for all or a portion of the work are considered incomplete without the sealed calculations and will not be reviewed.

Deferred Submittals not meeting the seal requirements of section D.2.b are considered incomplete and will not be reviewed.

Resubmittals with comments from a previous review left unaddressed or without any response will not be reviewed.

be billed hourly. McClure reserves the right to withhold review of a submittal surpassing this allowance until proper billing to the responsible party can be established.

Submittals must be returned to the Contractor by McCure bearing a stamp marked "Reviewed No Exception Taken" or "Reviewed With Comments/Exceptions" prior to proceeding with the work. Submittals marked "Reject/Resubmit" must be revised according to the comments provided prior to commencing with the respective scope of work.

Deferred Submittals: a. See Section "B. Structural Engineering Design Narrative" for the list of items considered Deferred Submittals. Deferred Submittals shall bear the seal of a professional engineer licensed in the state where the project is located. If the project requires a licensed Structural Engineer (S.E.) as the Engineer of Record according to state laws, the same qualification level applies to the engineer sealing the Deferred Submittals.

Deferred Submittal items shall not be installed until the Deferred Submittal documents have been approved by the Building Official.

a. Submittals (product data, test records, shop drawings, and/or calculations) are required for the following:

Su	bmittal Name	Items Required:							
		Product Data	Shop Drawings	Test Records	Engineering Drawings	Engineering Calculations			
1.	Concrete Mix Designs	X		X					
2.	Concrete Break Reports			Х					
3.	Concrete Reinforcing Layout		X						
4.	Concrete Anchor Bolts & Embedded Plates	X	X						
5.	Concrete & CMU Anchors (Post-Installed)	Х							
6.	Post-Installed Anchor Substitutions	Х				Х			
7.	Post-Installed Connection Geometry Alteration	Х			X	Х			
8.		X	X						
9.	Structural Steel Framing Connections		Х			X			
10.	Steel Floor Deck	X	X						
11.	Metal Railings & Connections								
	Metal Ladders & Connections								
13.	Fall Arrest Systems								
	Wood Framing Materials	X							
	Wood Floor & Roof Trusses incl. Reactions				Х	X			
16.	Wood Truss Connections to Supporting Structure				Х	X			
17.	Specialty Wood Fasteners	X							
	Manufactured Wood Shear Panels	Х							
19.	Masonry Wall Materials	X		X					
	Masonry Reinforcing		X						

material section of the general notes for further information. item "2. Deferred Submittals" above.

Submittals For Record: a. The following items impact the structural design and therefore must be submitted to the engineer; however, they do not require review. They will be returned stamped as "Received For Record".

Mechanical Equipment Shop Drawings with Weight.

C. GENERAL NOTES

1. All construction shall conform to the Design Codes in Section "A. Design Criteria," including all applicable standards and documents

2. Plan and detail notes provided on specific sheets within these drawings supplement information in these General Notes. Always coordinate

the requirements of these notes with what is shown within the drawings. 3. Unless noted specifically on a plan, all plans show framing for the level indicated and walls, openings, posts, columns below that level.

4. Contract Document Coordination:

a. The drawings contained herein are intended to be utilized in conjunction with other design consultant's drawings (architectural, civil, mechanical, etc.). It is the responsibility of the Contractor to coordinate the requirements of the drawings into their shop drawings and

i. Refer to the Project Specifications issued as part of the contract documents for information supplemental to these drawings. Should conflicts between these drawings and the Specifications exist, the Contractor shall bring them to the attention of the structural engineer for clarification.

b. Refer to the architectural, mechanical, electrical, and civil drawings for location and size of block outs, inserts, openings, curbs, bases & pads, and dimensions not shown on these drawings. c. Refer to the architectural drawings for size and location of doors and window openings, exterior wall assemblies, and floor, wall, and

roof finishes. Refer to the mechanical and electrical drawings for additional information including locations of mechanical units, d. Omissions or conflicts between various elements of the drawings, notes and details shall be brought to the attention of the structural

engineer and resolved before proceeding with the work. 5. Use of Drawings in Construction:

a. The Contractor shall verify all dimensions and conditions at the job site before commencing work and shall report any discrepancies to the engineer responsible for the design of that work. b. Do not use scaled dimensions; use written dimensions or, where no dimension is provided, consult the structural engineer for

clarification before proceeding with the work. i. Where member locations are not specifically dimensioned, members are either located on grid lines or are equally spaced between located members.

Details and keynotes shown shall be incorporated into the project at all appropriate locations, whether specifically called out or not. McClure may provide the contractor with electronic files for their convenience and use in the preparation of shop drawings. These electronic files are not construction documents; the contractor is not relieved of his/her duty to fully comply with the contract documents, including the need to confirm and coordinate all dimensions and details, take field measurements, verify field conditions, and coordinate the contractor's work with that of other contractors for the project.

6. Changes During Construction: a. Openings shall not be cut or otherwise made in any structural member unless that opening is specifically shown on these drawings. The

Contractor shall seek approval in writing from the structural engineer for any design incorporating additional openings. b. Support details shown for Architectural, Mechanical, Electrical, and Plumbing equipment as well as elevators is based upon available information from the manufacturer (if any). The Contractor shall coordinate requirements of actual equipment supplied with details and shall provide any additional framing required.

c. The Contractor has the responsibility to notify the structural engineer of any architectural, mechanical, electrical, or plumbing load imposed on the structure that is not documented on the Contract Documents or differs from what is originally shown. Provide documentation of location, load, size, and anchorage of all undocumented loads in excess of 250 lbs.

Construction Sequence and Methods a. These drawings and the related Specifications represent the finished structure and, except where specifically shown, do not indicate the method or means of construction. Loads on the structure during construction shall not exceed the design loads indicated in Section "A. Design Criteria" as a maximum. The Contractor shall supervise and direct the work and shall be solely responsible for all construction

means methods procedures techniques and sequence b. The Contractor is responsible for compliance with all applicable job-related safety standards proceeding from governing organizations

(e.a. OSHA). c. It is the responsibility of the Contractor to ensure the stability of the structural elements during construction as a result of means and sequence by providing shoring, bracing, etc. as required.

i. Stability considerations should include all applicable temporary construction and environmental loads per ASCE 37 which may include wind and seismic forces. Temporary bracing shall remain in place until positive connection is made between the floor/roof diaphragm and the lateral force

resisting elements. This is a means and methods item. The Contractor may at their discretion employ a Specialty Structural Engineer, licensed in the state where the project is located, for

the design of any temporary bracing, lifting, rigging, and shoring. d. The Contractor shall consider the effects of thermal movements due to hot or cold weather construction and the potential for extreme temperature variations before the structure is complete

e. Any foundation wall restrained by a floor is not designed to be backfilled prior to the complete construction of the floor and the lateral bracing elements (shear walls, braced frames, etc.) below it. For backfilling before this time, temporary bracing shall be designed and

f. The Contractor is responsible for the protection and repair of any adjacent existing structures, surfaces, and areas which may be damaged as a result of the work.

D. SUBMITTAL REQUIREMENTS

 Submittal Procedures: . The Contractor shall provide all submittals in PDF format unless otherwise requested or indicated in the Project Specifications b. All submittals must be reviewed by the Contractor prior to McClure's review. The Contractor is responsible for reviewing each submittal

submittal must bear the electronic review stamp of the Contractor before McClure will proceed with the review. Incomplete submittals or submittals not meeting the requirements of this section will not be reviewed. McClure will notify the contractor

Shop Drawings shall be original drawings. Submissions incorporating any portion or reproduction of the contract documents will not

d. Allow two weeks for review of all submittals unless an agreement for expedited review is made in writing by McClure. e. McClure's submittal review scope of work includes a single submittal review and one review of the revised submittal if required (two reviews total of the same submittal). Time required for more than two reviews of a submittal is considered an additional service and will

Submilla Name			ILEITIS F	required.	
	Product Data	Shop Drawings	Test Records	Engineering Drawings	Engineering Calculation
Concrete Mix Designs	Х		Х		-
Concrete Break Reports			Х		
3. Concrete Reinforcing Layout		X			
Concrete Anchor Bolts & Embedded Plates	X	Х			
5. Concrete & CMU Anchors (Post-Installed)	X				
Post-Installed Anchor Substitutions	Х				X
7. Post-Installed Connection Geometry Alteration	X			Х	Х
8. Structural Steel Framing	X	X			
Structural Steel Framing Connections		X			X
10. Steel Floor Deck	X	X			
11. Metal Railings & Connections					
12. Metal Ladders & Connections					
13. Fall Arrest Systems					
14. Wood Framing Materials	X				
 Wood Floor & Roof Trusses incl. Reactions 				X	X
16. Wood Truss Connections to Supporting Structure				X	X
17. Specialty Wood Fasteners	X				
18. Manufactured Wood Shear Panels	Х				
19. Masonry Wall Materials	X		Х		
20. Masonry Reinforcing		X			

b. "Product Data" may indicate mill certifications, material data sheets, Evaluation Service Reports (ESRs), etc. See requirements of each Where "Engineering Drawings" and/or "Engineering Calculations" are indicated, the submittal must comply with the requirements of

Elevator Shop Drawings with Loads to Structure.

E. CONCRETE

1. Reinforced concrete shall have the following minimum 28 day compressive strengths:

a. Interior slabs on grade, unless noted otherwise 4000 psi normal weight b. Slabs on grade, Foundations and Grade Beams 5000 psi normal weight

2. All concrete exposed to weather shall have 6% (+- 1%) air entrainment.

3. Submit mix designs for all concrete mixes prior to placement. All submittals shall include the following: a. Batch quantities including admixture dosage rates.

b. Strength test results for trial mixes. Aggregate source(s) and gradation(s).

d. Product data for cement, fly ash and other cementitious materials. e. Product data for all admixtures. 4. Provide protection for reinforcing bars as follows:

a. Cast-in-place concrete Concrete cast against and permanently exposed to earth: 3" Concrete exposed to earth and weather (formed)

. #5 and smaller #6 and larger

Concrete not exposed to weather and not in contact with ground: 1. Slabs and walls

2. Beams and columns 5. Provide construction or control joints in slab on grade as shown on plans. If joint pattern is not shown, provide joints at 10'-0" x 10'-0" and at

locations to conform to bay spacing wherever possible (at column centerlines, half bays, third bays, etc.). 6. Interface of all slab and beam construction joints shall be roughened with 1/4" amplitude. Surface of construction joints shall be clean and

free of laitance. Immediately before new concrete is placed, construction joints shall be wetted and standing water removed. Construction joints in walls shall be keyed and placed at locations approved by the Architect and Structural Engineer.

Provide control joints in all retaining walls at 15 ft to 20 ft intervals. 9. Elevator pit walls shall not have control joints as they are part of the lateral system.

10. Provide PVC waterstops in all below grade construction joints and at other locations as shown.

11. Provide compressible filler and sealant in all slab-on-grade and wall and column interfaces that are not doweled together. 12. All column pockets shall be filled with concrete after column is erected.

13. Sleeves and openings in slabs not shown on structural drawings or outside the parameters of typical sleeve details are not permitted, unless approved by the Structural Engineer. 14. Conduit and pipes embedded in slabs, walls, or grade beams shall be no larger in outside dimension than 1/3 the overall member thickness

and shall be placed no closer than 3 diameters or widths on center. 15. Conduits and pipes shall not be permitted in concrete pilasters or columns.

16. See "G. Foundations" section 5 for requirements at slab on grade. 17. Bond break material for slip joints shall be 1/8" thick tempered wood particleboard, 1/8" thick high-density plastic elastomeric strips, two

layers of 10mil polyethylene sheeting or equivalent. 18. Provide concrete housekeeping pads under all mechanical, plumbing, fire protection, and electrical equipment per plans. Pads shall extend beyond equipment a nominal 6" on all sides. Provide reinforcing per details.

19. At floor drains, locally slope floor towards drain. See architectural and plumbing drawings for drain locations. 20. Foundation walls shall be temporarily braced until positive attachment is made to floor framing per details. This is a means and methods

F. REINFORCING FOR CONCRETE

a. All reinforcing steel to be ASTM A615, Grade 60, deformed bars, unless noted otherwise.

Any reinforcing to be welded shall be ASTM A706 and welded with E80 electrodes. Alternatively, ASTM A615 reinforcing may be welded with E90 electrodes and proper preheat according to AWS D1.4. iii. E70 electrodes are not permitted for welding rebar.

b. Welded wire fabric shall be ASTM A185. Welded wire fabric shall be in flat sheets.

c. All reinforcing bars to be detailed and placed in accordance with the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" specifications.

d. All reinforcing, including dowels, shall be securely tied and cast with the lower member. Placing reinforcing after concrete has been

e. Field bending of reinforcing partially embedded in concrete will not be allowed unless specifically noted on the drawings or approved by the Structural Engineer

f. All reinforcing bars shall be contact lap spliced or doweled as follows, unless noted otherwise:

	Tension	Developm	ent and S	plice Lengtl	ns for f'c =	5,000psi	
	Devel	opment	Class "	B" Splice	Stand	lard 90 deg	ı. Hook
Bar Size	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.
#3	17	13	22	17	6	6	2-1/4
#4	22	17	29	22	6	8	3
#5	28	22	36	28	8	10	3-3/4
#6	33	26	43	33	9	12	4-1/2
#7	49	37	63	49	11	14	5-1/4
#8	55	43	72	55	12	16	6
#9	63	48	81	63	14	19	9-1/2
#10	70	54	91	70	15	22	10-3/4
#11	78	60	101	78	17	24	12
#14	94	72			29	31	18-1/4
#18	125	96			39	41	24
	Tensior	Developm	ent and S	plice Lengt	hs for f'c=	4,000psi	
	Devel	opment	Class "	B" Splice	Stand	lard 90 deg	ı. Hook
Bar Size	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.
#3	19	15	24	19	6	6	2-1/4
#4	25	19	32	25	7	8	3
#5	31	24	40	31	9	10	3-3/4

	١ ٠.	. –				0.	,
#18	125	96			39	41	24
	Tension	Developm	ent and S	plice Lengt	hs for $f'_c = \frac{1}{2}$	4,000psi	
	Develo	opment	Class "	B" Splice	Stand	ard 90 deg	g. Hook
Bar Size	Top Bar	Other Bar	Top Bar	Other Bar	Embed	Leg Length	Bend Dia.
#3	19	15	24	19	6	6	2-1/4
#4	25	19	32	25	7	8	3
#5	31	24	40	31	9	10	3-3/4
#6	37	29	48	37	10	12	4-1/2
#7	54	42	70	54	12	14	5-1/4
#8	62	48	80	62	14	16	6
#9	70	54	91	70	15	19	9-1/2
#10	79	61	102	79	17	22	10-3/
#11	87	67	113	87	19	24	12
#14	105	81			32	31	18-1/
#18	139	107			43	41	24
1. Straig	ht develop	ment and Cl	ass "B" spli	ce lenaths sh	own in abo	ve tables are	e based

uncoated bars assuming center-to-center bar spacing ≥ 3*d_b without ties or stirrups or

≥ 2*d_b with ties or stirrups, and bar clear cover ≥ 1.0*d_b Normal weight concrete as well as no transverse reinforcing are both assumed.

Standard 90 deg. hook embedment lengths are based on bar side cover ≥ 2.5" and

bar end cover ≥ 2" without ties around hook. For special seismic considerations, refer to ACI 318 Code Chapter 21. 4. All tension splices shall be Class "B" splices unless noted otherwise on plans.

g. All welded wire fabric shall be lapped 12" or 48 wire diameters, whichever is greater.

Provide (2) #5 x 6'-0" diagonals at all corners of openings and re-entrant corners, unless noted otherwise. Dowels between foundation and walls shall be installed and shall be the same grade, size, and spacing as the vertical wall reinforcing, unless noted otherwise.

Provide corner bars to match longitudinal reinforcing in all footings. Provide (2) corner bars at tee intersections. Provide 500 pounds of miscellaneous straight bar reinforcing (#4 & #5) to be used in field for special conditions. Labor for placing same to be included.

 Slabs and Slabs-on-Grade a. All slabs on grade to be reinforced with 6x6 – W2.9xW2.9 welded wire fabric, unless noted otherwise.

a. Provide corner bars in the outside face and at wall intersections to match horizontal wall bars. Use (3) #5 vertical construction rods at

b. Provide #4 at 12" O.C. each way in each face of walls, unless noted otherwise.

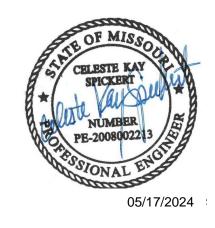
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REVISIONS: 1 05/17/2024 CITY RESPONSE



NOTICE: McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications. MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253 EXPIRES: DECEMBER 31, 2024



SHEET TITLE **GENERAL NOTES**

SHEET NUMBER:

G. FOUNDATIONS

- 1. Foundation design is based on Geotechnical Report prepared by Olsson, dated Aug. 8, 2023. See documents for additional information. The geotechnical report shall be considered part of the construction documents.
- 2. A geotechnical representative shall be retained on site for all construction activity to verify that all proper requirements have been met to meet the design requirements outlined in the geotechnical report. Representative shall be Olsson Engineers or someone familiar with all documents of the geotechnical investigation provided for the project.
- 3. The Contractor shall provide dewatering of excavations from surface water and ground water. Do not place concrete if water is present at base of excavation.
- 4. Footings a. All footings shall bear on suitable subgrade prepared in accordance with the geotechnical report. The underlying soils and the structural fill shall have a minimum safe load bearing capacity of 2,500 psf.
- b. Remove all existing topsoil, pavement, organic materials, and other soil that appears to be unsuitable prior to preparing the footing
- c. If any adverse soil conditions are encountered which extend below footing level such as those listed above, the general contractor shall contact the geotechnical engineer immediately for determination of how to remedy the condition before continuation of work.
- d. No footings shall be placed in water or on frozen ground. All exterior construction shall be carried down to minimum 3'-0" below finished adjacent exterior grade.
- 5. Slab on Grade a. Slabs shall be constructed as shown on the plans.
- b. A 10mil minimum vapor retarder shall be installed under all slabs on grade in occupied or conditioned spaces per the drawings. See the geotechnical report for additional information regarding the installation of the vapor retarder.
- c. Provide joints at 30 x slab thickness (+/-) in both directions and located to conform to bay spacing wherever possible (at column
- centerlines, half bays, third bays, etc.). Submit control joint layout for approval by the Structural Engineer. d. Saw cut control joints shall be done late enough to prevent raveling of the cut edges and early enough to prevent racking of the slab
- ahead of the saw blade. e. Plumbing and utilities passing through the slab on grade shall be constructed with flexible fittings to allow for slab movement. The
- expected slab movement for the parking slab shall be considered up to 2" minimum for fittings. f. Concrete slab to be cured according to ACI Standards. Concrete slab cure to be compatible with any sealer, grout, or adhesive that may be used in the floor later.
- g. Locally slope floor towards any floor drains. See architectural and plumbing drawings for drain locations.
- 6. Geotechnical Testing Agency Requirements
- a. If the geotechnical representative on site takes exception to anything in the Geotechnical Report and requires additional field investigation to clarify those exceptions, the cost of such investigation shall be included in the additional fee for field quality control and
- testing and identified as such. All other exceptions shall be documented and approved by the geotechnical engineer. b. The geotechnical representative must have read all documents pertaining to the geotechnical report for the project and have
- understood and accepted the criteria contained in the report. c. The geotechnical representative must understand and be able to make decisions affecting the work for field observations and
- conditions described in the report during construction. The representative must be capable of advising the owner or contractor for procedures regarding, but not limited to sub-grade preparation, dewatering activities, and other construction considerations. See notes on sheets and details for additional information.

H. POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY

1. Post installed anchors shall be expansion, adhesive, or screw anchors as indicated in the details, unless noted otherwise. Only use the anchor type indicated. All anchors on the project of each type must be by the same manufacturer, see below for substitution requirements.

a. Expansion anchors: i. Concrete: Hilti Kwik Bolt TZ (ICC-ES ESR1917). Simpson Strong-Bolt 2 (ICC-ES ESR3037). DeWalt Power-Stud+ SD2 (ICC-ES ESR2502).

ii. Grout-filled Concrete Masonry: Hilti Kwik Bolt 3 (ICC-ES ESR1385). Simpson Strong-Bolt 2 (UES ER0240) DeWalt Power-Stud+ SD1 (ICC-ES ESR2966).

b. Adhesive anchors (threaded rods shall be ASTM A193 B7 for all anchors):

Concrete: Hilti HIT RE 500-SD (ICC-ES ESR2322) or Hilti HIT-HY 200 (ICC-ES ESR3187). Simpson AT-XP (UES ER263), SET-XP (ICC-ES ESR2508) or ET-HP (ICC-ES ESR3372) DeWalt Pure 110+ (ICC-ES ESR3298), PE1000+ (ICC-ES ESR2583), Pure 50+ (ICC-ES ESR3576), AC 200+ (ICC-ES

ESR4027), or AC100+ Gold (ICC-ES ESR2582) Solid grouted concrete masonry: Hilti HIT-HY 70 anchor adhesive (ICC-ES ESR3342). Simpson AT-XP (UES ER0281), SET-XP (UES ER0265) or ET-HP (UES ER0241)

DeWalt AC100+ Gold (ICC-ES ESR3200) Hollow concrete or multi-wythe clay masonry: Hilti HIT-HY 70 with screen tubes (ICC-ES ESR3342).

Simpson SET-XP (UES ER0265) DeWalt AC100+ Gold with screen tubes (ICC-ES ESR3200)

c. Screw anchors i. Concrete:

Hilti Kwik HUS EZ (ICC-ES ESR3027) Simpson Titen HD (ICC-ES ESR2713) DeWalt Screw-Bolt+ (ICC-ES ESR2526) Grout-filled concrete masonry: Hilti Kwik HUS EZ (ICC-ES ESR3056)

Simpson Titen HD (ICC-FS FSR1056 DeWalt Screw-Bolt+ (ICC-ES ESR1678) 2. Post-installed anchors shall only be used where specified in the drawings. The Contractor shall obtain approval from the engineer prior to

using post-installed anchors for missing or misplaced cast-in-place anchors. 3. All personnel installing anchors shall be trained and certified by the anchoring system manufacturer or by ACI. Contractor shall submit current certifications for all personnel. ACI certification required for all personnel installing adhesive anchors in a horizontal or overhead conditions. If a failure occurs at any time during testing or construction, personnel shall be retrained and recertified.

4. Installation: a. Do not cut existing reinforcing.

The hole through the supported steel member shall be 1/16" larger in diameter (1/8" for screw anchors) than the anchor unless noted otherwise. Use plate washers with a standard size hole welded to steel members where oversized holes must be used. c. Holes shall be drilled per the manufacturer's written instructions as outlined in the ESR.

d. Where applicable, installation shall follow cleaning procedure indicated in the ESR. Holes shall be made with a hammer drill. Use of a

5. Special inspection shall be provided for all post installed anchors as required by the building code and/or ICC-ES report. Written special inspection reports shall be submitted to the registered design professional in responsible charge by the special inspector. The reports shall record and report the following as a minimum:

a. One of every ten anchors installed by each technician in locations listed below shall be randomly tested in direct tension. At least one anchor shall be tested on each day that anchors are installed. i. Test anchors in the following locations

> Shear wall hold down anchors. Shear wall sill plate anchors.

Anchors supporting dead or live loads in tension.

Test anchor to twice the allowable tension load as provided in the ESR. Test load shall not exceed 80 percent of the yield strength of the anchor (0.8 x A_{se} x f_{va}). Post-installed anchors shall not be tested using a torque wrench.

If any anchor fails quality control testing, all anchors of the same type shall be randomly tested until (10) consecutive anchors pass. Resume normal frequency after this with approval of the engineer. The failed anchor(s) shall be removed and the affected area patched per engineer's direction. Consult the engineer for anchor replacement instructions. The cost for additional work and testing required due to anchor failure is the responsibility of the installing contractor. b. Prior to and during installation of anchors, inspection and report shall include:

Installer shall have reviewed manufacturer's ESR report and written installation procedures and has been certified by the manufacturer or ACI.

General concrete or CMU block conditions (cracked or un-cracked, wet or dry, grouted or hollow, etc). Whether manufacture's written procedures for preparation of hole were followed. Indicate if hole is wet or dry.

Whether hole was made with a hammer drill

Whether manufacture's written procedures for anchor installation were followed. Embedment depth and concrete or block thickness.

vii. Anchor diameter, length and type. c. After installing anchors, inspection and report shall include:

 All test locations. Anchor size and/or type.

Applied load, loading procedure, load increments and rate of loading. Mode of failure.

Photographs of test equipment and typical failures.

Substitution requests for products other than those listed above shall be submitted to the engineer with calculations that are prepared and sealed by a registered structural engineer at least two weeks prior to scheduled installations. Calculations shall demonstrate that the substituted product will achieve an equivalent capacity using the appropriate design procedure required by the building code. Product ICC-ES code reports shall be included with the submittal package.

I. STRUCTURAL STEEL

a. Materials shall conform to the following, unless noted otherwise. Rolled WF shapes ASTM A992, Fy = 50ksi ASTM A572-50 Plates and angles Channels ASTM A36 HSS: Rectangular ASTM A500, Grade C ASTM A500, Grade C HSS: Round **ASTM F3125** All bolts shall be Grade A325 or F1852, UNO Bolts designed as "A490" shall be Grade A490 or F2280

ASTM A563 DH or A194 Washers ASTM F436 ASTM F1554 Grade 36, UNO Anchor Bolts

Threaded Rod ASTM A36 ASTM A108, Type B Nelson headed shear stud connectors or equal. Studs

xii. Electrodes Matching weld metal, 70 ksi minimum strength. b. Finishes Prepare all surfaces that will be exposed in accordance with SSPC SP3.

All exterior steel components exposed to view or weather shall be galvanized in accordance with ASTM A123. All exterior welded connections shall be cold galvanized in accordance with ASTM A780.

2. Fabricator: Steel fabricator shall be AISC Certified. Structural members shall be detailed, fabricated, and erected in accordance with the latest edition AISC Code of Standard Practice. Structural steel fabrication and erection drawings must be submitted to the engineer for review and approval prior to fabrication.

d. Fabricator shall engage a professional engineer registered in the state of the project for the design and detailing of: Steel connections. ii. Temporary bracing.

Connections: a. The contractor has the option to use bolted or welded connections. Any connections not specifically detailed on the drawings shall be designed by a professional structural engineer licensed in the project state and retained by the fabricator. In general, any connections shown on the drawings are schematic and are intended to show only the relative relationship of the connected members.

b. Structural design calculations for all beam and bracing connections shall be submitted to the engineer prior to fabrication and should include the following (as a minimum): All plate dimensions and grades (minimum plate thickness shall be 3/8").

All weld sizes, lengths, pitches and returns. Number and type of bolts

c. Connection design forces:

Beam shear connections shall be designed for the actual reactions indicated on the drawings. Connection forces shown on drawings are envelope reactions based on ASD load combinations.

Connections indicated on the drawings as moment-resisting shall be designed for the moment shown. If moment is not indicated on the drawings, connection shall be designed to develop the full capacity of the member. Columns have not been checked for local effects at connections. Fabricator shall verify if stiffener or web doubler plates are

required and provide as necessary. Column size may also be increased with approval of the Structural Engineer. Connection loads indicated on the drawings include compensation for Code permitted stress increases and load reductions for connection design.

d. Bolted Connections: Minimum bolt diameter shall be 3/4".

Slip critical connections shall be used for bracing members, moment-resisting connections, cantilevers, and as indicated on the drawings. Standard oversized and long-slotted holes are permitted for friction-type connections.

iii. All non-slip-critical connections shall be typical bearing type. Oversized or slotted holes are not permitted unless indicated on the

The fabricator is responsible for verifying the tensile capacity of axially loaded members with the presence of bolt holes. Increase member size; add plates (etc) as required. e. Welded Connections:

All fillet welds shall be sized according to AISC minimums, but never less than 3/16" (UNO) All welds shall be performed in accordance with the latest edition of the AWS Structural Welding Code.

4. Erection: a. All structural steel to be fabricated and erected in accordance with latest AISC specifications.

It is the responsibility of the contractor to ensure that structure is maintained in a safe, stable configuration at all times. Any shoring required shall be submitted with engineering calculations for approval. b. Splicing of steel members not specifically shown on the drawings is prohibited without prior approval from the engineer.

All beams shall be installed with the mill camber up. Steel Lintels:

a. Loose lintels for king brick at all openings shall be the following, one angle per 4" wythe of masonry: i. L 3-1/2 x 3-1/2 x 5/16 for spans less than 5'-9" ii. L 5 x 3-1/2 x 5/16 for spans between 5'-9" and 7'-11" iii. L 6 x 3-1/2 x 5/16 for spans between 8'-0" and 9'-7"

iv. L 7 x 4 x 3/8 for spans between 9'-8" and 11'-10" b. King brick lintel sizes are based on 36 psf brick weight with 8'-0" max height of brick above the lintel. c. Loose lintels for large format masonry at all openings shall be the following:

i. L 6 x 6 x 3/8 for spans less than 6'-6" ii. L 8 x 6 x 1/2 for spans between 6'-6" and 9'-3"

d. Large format masonry sizes are based on 70 psf masonry weight with 10'-0" max height of masonry above lintel.

e. Lintels shall bear 8" minimum each end.

f. Lintels shall be galvanized.

g. All double angle lintels back-to-back shall be bolted at 32" O.C. maximum spacing, with 5/8" diameter A307 bolts, a minimum of two

bolts per span

MINIMUM DESIGN REACTION SCHEDULE (FOR BEAM REACTIONS NOT SHOWN ON PLANS OR DETAILS) Double Angle of Bolts to Column Beam to Beam 12.4 Kips W8 12.4 Kips W10 13.8 Kips 13.8 Kips W12 23.0 Kips 23.0 Kips W14 26.4 Kips 26.4 Kips W16 39.0 Kips 39.0 Kips W18 53.0 Kips 59.1 Kips W21 63.6 Kips 83.6 Kips 110.6 Kips W24 74.2 Kips W27 7 74.2 Kips 128.6 Kips W30 84.8 Kips 151.3 Kips W33 95.4 Kips 185.0 Kips W36 10 103.0 Kips 205.0 Kips

Note: Unless reactions are noted on plan, beam connections shall be designed for these reactions & provided with these minimum bolt quantities. Fabricator shall provide shop drawings indicating the provided capacity of all typical connections.

Table assumptions: - Least web thickness for beam depth series

- 3/8" 36 ksi single shear plate or 5/16" 36 ksi double angles

- 3/4" dia. A325 bolts with threads included

- Standard size bolt holes - Beam coped top & bottom

Distance from end of beam to center of bolt holes = 1 1/2" minimum - Distance from top of coped web to center of first bolt hole = 1 1/4" min.

J. WOOD FRAMING AND CONNECTIONS

1. Install rough carpentry according to the American Institute of Timber Construction Manual. It is the responsibility of the contractor to

verify all dimensions prior to erection

a. Sawn lumber Sawn lumber shall be grade stamped and visually graded with maximum 19% moisture content.

All members shall meet strength requirements in NDS "National Design Specification for Wood Construction". Joists, rafters, and nailers with nominal depth 8" or less shall be Southern Pine (SP) or Douglas Fir-Larch (DFL), No. 2 or better,

iv. Joists, rafters, and nailers with nominal depth greater than 8" shall be Southern Pine (SP) or Douglas Fir-Larch (DFL), No. 1 or better, UNO.

v. All members used as columns or beams (including headers) shall be coid of any significant defects (ie. Checking, warping, etc.) at the time of erection.

vi. All exterior posts shall be Western Red Cedar No. 2 or better. vii. Bearing and shear wall studs, and wall plates, shall be Douglas Fir-Larch (DFL), No. 2 or better.

b. Structural Composite Lumber SCL shall meet material specifications in ASTM D5456

SCL shall include laminated veneer lumber (LVL), laminated strand lumber (LSL), oriented strand lumber (OSL) and parallel strand iii. All SCL materials shall be graded as indicated on the plans.

c. Glued-laminated timber (GluLam) shall be manufactured and identified as required in ANSI/AITC A-190.1 and ASTM D3737. GluLam shall be graded as indicated on the plans. d. Structural Panels

All plywood or oriented strand board (OSB) panels shall meet the strength requirements in Department of Commerce (DOC) PS 1 and PS 2 or ANSI/APA PRP 210. All structural panels (walls, floor and roof) shall meet the Structural 1 grading standard.

e. Connectors and Fasteners i. Metal connectors and associated fasteners used for the applications indicated shall meet the following minimum standards:

 Untreated Lumber ..ASTM A653 G90 a. Connectors Bolts and Anchor RodsASTM F1554 Gr36 c. Nails and Staples ...ASTM F1667 2. Sodium Borate (SBX) Pressure Treated Lumber ASTM A653 G90 a. Connectors ..ASTM A307 c. Anchor Rods ..ASTM F1554 Gr 55 d. Nails and Staples ..ASTM F1667 with A153 Hot Dipped Galvanized 3. All Other Pressure Treated Lumber (e.g. ACQ-C, ACQ-D, CA-B, CBA-A, ACZA) Connectors ..AISI SS Type 304 or 316

..ASTM A193, GrB7 c. Anchor Rods d. Nails and StaplesASTM F1667 using AISI Type 304 or 316 Stainless Steel

...ASTM A193, GrB7

Fasteners utilizing dissimilar materials are prohibited.

b. Bolts

Power driven fasteners shall comply with NES NER-272. Fastener installation whether power driven or otherwise shall be in accordance with the Building Code and the manufacturer's recommendations. In general fastener heads shall be installed nominally flush with the outer ply of the connection. Sheathing and support framing damaged by overdriven fasteners shall be removed and replaced. Aluminum fasteners and flashing shall not be in contact with pressure treated lumber.

General: a. All light framed wood construction shall be fastened as indicated on the plans. Connections not detailed shall be fastened in

accordance with the table below. b. Sill plates shall be anchored to the foundation as shown on the drawings.

Plywood/OSBS wall, floor or roof sheathing shall be fastened per the requirements shown on the drawings. d. Splicing of structural members is not permitted under any circumstances.

e. All framing in direct contact with water, soil, concrete, masonry, or permanently exposed to weather shall be preservative treated lumber in accordance with the AWPA Standard U1 and M4

. All framing indicated to be fire-retardant treated or fire resistive on the drawings (Architectural or Structural) shall comply with AWPA U1

UCFA, Type A or ICC-ES ESR 2645 and shall have UL FR-S surface burning characteristics. g. All wood shall be stored on site and protected from the elements to prevent warping, cupping, bowing, crooking and twisting. Use only

material that is straight. All stored wood shall be held off the ground with sacrificial dunnage blocks. h. Wood connectors shall be installed to prevent wood from splitting or otherwise damaging either member. . All wood denoted as requiring fire-resistive treatment shall be pressure treated according to AWPA Standard requirements.

Use 4x4, 4x6 and 6x6 columns as shown on plans. Built-up sections of 2x studs shall not be substituted for timber posts.

All multi-ply beams, joists and headers shall be fastened together. Fasten sawn lumber members per schedule below. Fasten structural composite lumber per manufacturer's literature.

I. Standard cut washers shall be used under bolt heads and nuts bearing against wood, unless noted otherwise per shear wall anchorage

m. Wall studs are designed based on being fully braced by sheathing. Design of temporary or permanent blocking or bridging for support of construction loads by unsheathed walls is the responsibility of the contractor.

n. Wood joists shall bear on the full width of supporting members (stud walls, beams, nailers, etc.) unless noted otherwise o. Subject to compliance with the project requirements, wood connectors, joist hangers, post caps and bases, holdowns, and related hardware shall be manufactured by Simpson Strong-Tie Company, Inc. or approved equal.

Contractor shall follow the manufacturer's latest recommendations for installation of connectors. Other manufacturers may be acceptable. Submit substitution request demonstrating that the proposed hardware has the same or greater capacity for each connection. Allow two weeks for review.

p. All beams and joists not bearing on supporting members shall be framed with Simpson joist hangers. Use joist hangers per schedule and details. The joist hangers shall be installed using nails or screws supplied by the hanger manufacturer as required for the hanger

a. Sill plates of all bearing walls on concrete shall be anchored with anchors as shown on the drawings. Sill plate anchors shall be located a maximum of 1'-0" from corners, ends of walls and sill plate splices. Provide (2) anchors minimum in each sill plate segment Refer to plans and details for shear wall anchorage requirements.

r. Nailers shall be anchored to steel beams and columns with 1/2" diameter A307 bolts with required washers at a maximum spacing of 24" on center (alternate sides), unless noted otherwise. s. Wall studs, jamb studs, and beam support studs shall have adequate vertical blocking installed to transfer all vertical loads to the foundation.

4. Wood Floor and Roof Trusses: a. Provide wood trusses capable of withstanding the design loads within the limits and under the conditions indicated. Truss design shall be in accordance with the Building Code and TPI-1 Nation Design Standard for Metal Plate Connected Wood Truss Construction.

b. Metal gusset plates shall be designed, manufactured, and approved according to IBCO requirements. c. Wood trusses shall be of sawn lumber with 2x nominal thickness. d. In addition to the loads indicated in section "A. Design Criteria", wood trusses shall be designed for all applicable wind, seismic, and

snow (including drift) loads required by Building Code and noted on plans. e. Truss design and shop drawing preparation shall be supervised by a registered professional engineer licensed in the state where the project is located. Submittals shall be signed and sealed and include comprehensive truss layout plans and design calculations that indicate species and grades of lumber, design stresses, size and type of connector plates used. f. Fabricator shall determine truss diagonal locations. Truss configurations shown on drawings are diagrammatic only. Bearing points

shall coincide with intersections of diagonals and chords. All dimensions shall be determined by the truss manufacturer. The manufacturer and contractor shall coordinate all architectural and MEP components with the truss layout and profile. g. The manufacturer shall provide all open web trusses and accessories as shown on the structural and architectural drawings and as required for a complete project. This includes all blocking, bridging, bracing, and drag components required for construction.

h. All truss-to-truss connections and truss to supporting member connections shall be designed and detailed by the truss supplier and the

size and type of connectors included in the sealed shop drawing submittal. Coordinate size, species, and grade of supporting chord and web members with the truss hanger selected. i. All temporary and permanent bracing shall be in accordance with the TPI standards for bracing. The bracing shall be furnished and installed by the Contractor. Do not use ceilings as uplift bracing at truss bottom chord.

Girder trusses shown on drawings shall be designed to carry concentrated reactions from supported members. Girder trusses shall not be located directly above openings unless coordinated with the Structural Engineer. k. Wood trusses shall be handled and erected in accordance with TPI HIB-91. Trusses shall be unloaded and stored in bundles in an upright position out of contact with the ground until ready for installation.

. Any damage to the trusses shall be brought to the immediate attention of the Structural Engineer and truss supplier. Field repair and modification of trusses shall not be made with prior written approval from the supplier, except for nominal trimming to correct length where such trimming will not impair the load carrying capacity of the truss 5. Roof trusses shall be designed for the following in addition to any mechanical unit loads shown on plan and mechanical drawings:

TC DL = 10 psf TC LL = 20 psf TC SL = 20 psf C&C TC WL = $\pm 27/-59$ psf MWFRS TC WL = ± 28 psf BC DL = 10 psf BC LL = N/A $C\&C\ BC\ WL = \pm 5\ psf$ MWCRS BC WL = ±5 psf End/Parapet C&C WL = +90/-61 psf Unbalanced Snow Load:

Balanced TC SL = 14psf Drifts per "A. Design Criteria" $\dot{\gamma}$ 6. Floor trusses shall be designed for the following loads: TC DL = 17 psf typical + additional 15 psf at residential units to account for interior non-structural walls TC LL = 40/100/125 psf BC DL = 10 psf

L/480

(Coordinate LL with Architectural plans and general note section "A. Design Criteria") 7. The allowable deflection is:

Live Load:

Absolute Maximum:

 a. Roof Trusses Total Load: L/360 Roof Live or Snow Load: 1.5" Absolute Maximum: b. Floor Trusses L/360 Total Load:

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04/17/2024 - CITY SUBMISSION

REVISIONS:

1 05/17/2024 CITY RESPONSE

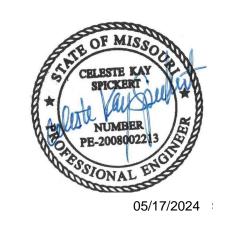
Columbia, MO 65203

P 573-814-1568

NOTICE: McClure Engineering Co. is not responsible or liable for any issues, claims, damages, or losses (collectively, "Losses") which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for Losses which arise from failure to obtain and/or follow the engineers' or surveyors' guidance with respect to any alleged errors, omissions, inconsistencies, ambiguities, or conflicts contained within the Plans or Specifications. MISSOURI CERTIFICATE OF AUTHORITY

NO. E-2006023253

EXPIRES: DECEMBER 31, 2024



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SHEET TITLE **GENERAL NOTES**

SHEET NUMBER:

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS

Project Name: Home2 Suites By Hilton Address: 251 NE Alura Way, Lee's Summit, MO 64064

1. This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services

applicable to this project as well as the name of the Special Inspector to be retained for conducting these inspections an... 2. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be

Special Inspection program does not relieve the Contractor of his or her responsibilities. 3. Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible...

brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The

4. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and...

5. Job site safety and means and methods of construction are solely the responsibility of the Contractor. This Statement

of Special Inspections includes the following building systems:

X Fabricators

X Soils x Cast-In-Place Foundations Elements o Driven Deep Foundation Elements

o Helical Pile Foundations x Cast-In-Place Deep Foundation Elements x Concrete Construction x Masonry Construction - Level 1 x Structural Steel Construction o Masonry Construction - Level 2 o Steel Construction Other than Structural Steel x Wood Construction

o Exterior Insulation and Finish System (EIFS) o Fire-Resistant Penetrations and Joints x Wind Resistance

o Smoke Control x Seismic Resistance

6. Special Inspection Agency:

o Spray Fire-Resistant Materials

Special Inspection Schedule: Fabricators									
Verification And	Applicable To	Frequency							
Inspection Task	This Project?	Continuous	Periodic						
1. Verify fabrication and implementation procedures:									
a. Steel Construction	Х	-	X						
b. Concrete Construction (including rebar fabrication)	X	-	X						
c. Masonry Construction	-	-	X						
d. Wood Construction	X	-	X						
e. Cold Formed Metal Construction	-	-	X						
f. Other Construction	-	-	X						

o Mastic and Intumescent Fire-Resistant Coatings

Special Inspection Schedule: Soils							
Verification And	Applicable To	Frequency					
Inspection Task	This Project?	Continuous	Periodic				
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Х	-	Х				
Verify excavations are extended to proper depth and have reached proper material.	Х	-	Х				
Perform classification and testing of compacted fill materials.	Χ	-	Х				
4. Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.	Х	Х	-				
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	Х	-	Х				

Special Inspection Schedule: Cast-In-Place Foundation Elements							
Verification And	Applicable To	Frequency					
Inspection Task	This Project?	Continuous	Periodic				
1. Special Inspections and verifications for concrete foundation construction in accordance with the Special Inspection Schedule: Cast-In-Place Concrete for the following foundation elements:							
a. Isolated spread concrete footings.	-	-	X				
b. Continuous concrete Grade Beams.	X	-	Х				
c. Concrete foundation walls.	X	X	-				

Special Inspection Schedule: Concrete Co	onstruction		
Verification And	Applicable To	Freque	ency
Inspection Task	This Project?	Continuous	Periodic
Inspect reinforcing steel, including prestressing tendons and placement.	X	-	Х
Inspect reinforcing steel welding in accordance with the Special Inspection Schedule: Steel Construction (other than Item 3).	Х	-	-
3. Inspect anchors cast in concrete where allowable loads have been increased or where strength design is used.	Х	-	Х
Inspect anchors post-installed in hardened concrete members.	X	-	Х
5. Verify use of required design mix.	X	-	Х
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and record the temperature of the concrete.	Х	Х	-
7. Inspect concrete and shotcrete placement for proper application techniques.	Х	Х	-
8. Inspect for maintenance of specified curing temperature and techniques.	X	-	X
9. Inspection of Prestressed Concrete:			•
a. Observe application of prestressing forces.	-	X	-
b. Observe grouting of bonded prestressing tendons in the seismic force resisting system.	-	X	-
10. Inspect erection of precast concrete members.	-	-	-
11. Verify in-situ concrete strength prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	-	-	Х
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.	Х	-	Х

Special Inspection Schedule: Structural Stee	l Construction	,	
Verification And	Applicable To	Freque	ency
Inspection Task	This Project?	Continuous	Periodic
Material verification of high-strength bolts, nuts and washers:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	X	-	X
b. Manufacturer's certificate of compliance required.	X	-	Х
2. Inspection of high-strength bolting:			
a. Snug-tight joints.	X	-	X
b. Pretensioned and slip-critical joints using turn-of-nut with match marking, twist-off bolt, or direct tension indicator methods of installation.	-	-	X
c. Pretensioned and slip-critical joints using turn-of-nut without match marking or calibrated wrench methods of installation.	-	Х	-
3. Material verification of structural steel:			
a. Identification markings to conform to ASTM standards specified in the approved Construction Documents and AISC 360.	X	-	Х
b. Manufacturer's certified test reports.	X	-	Х
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS specification in the approved Construction Documents.	X	-	X
b. Manufacturer's certificate of compliance required.	X	-	Х
5. Inspection of welding, structural steel:			
a. Complete and partial penetration groove welds.	X	Х	-
b. Multi-pass fillet welds.	X	X	-
c. Single-pass fillet welds > 5/16".	Χ	Х	-
d. Single-pass fillet welds < 5/16".	X	-	X
6. Inspection of steel frame joint details for compliance with approved Construction Documents:			
a. Details such as bracing and stiffening.	Χ	-	X
b. Member locations.	Χ	-	Х
c. Application of joint details at each connection.	Χ	-	Х

Special Inspection Schedule: Wood Cor		_		
Verification And	Applicable To	Frequency		
Inspection Task	This Project?	Continuous	Periodic	
1. Inspection of high-load diaphragms:				
a. Verify wood structural panel sheathing is of the grade and thickness shown on the Construction Documents.	Х	-	Х	
b. Verify nominal size of framing members at adjoining panel edges agrees with the Construction Documents.	Х	-	Х	
c. Verify fastener diameter and length, number of fastener lines, the spacing of the fasteners, and the edge margins agree with the Construction Documents.	Х	-	Х	
Inspection of metal-plate-connected wood trusses spanning 60 feet or greater:				
a. Verify temporary installation restraint/bracing are installed in accordance with approved truss submittal package.	Х	-	Х	
b. Verify permanent individual truss member restraint/bracing are installed in accordance with approved truss submittal package.	Х	-	Х	

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Special Inspection Schedule: Masonry Constru Verification And	Applicable To	Freque	ency
Inspection Task	This Project?	Continuous	Periodi
Compliance with required inspection provisions of the Construction Documents and the approved submittals shall be verified.	X	-	Х
2. Verify f'm and f'aac prior to construction except where specifically exempted by the building code.	Х	-	Х
3. Verify slump flow and VSI as delivered to the site for self-consolidating grout.	Х	Х	-
4. As masonry construction begins, the following shall be verified to ensure compliance:			
a. Proportions of site-prepared mortar.	Χ	-	X
b. Construction of mortar joints.	Χ	-	X
c. Location of reinforcement, connectors, prestressing tendons, and anchorages.	Χ	-	X
d. Prestressing technique.	-	-	X
e. Grade and size of prestressing tendons and anchorages.	-	-	X
5. During construction, the inspection program shall verify:			
a. Size and location of structural elements.	Х	-	X
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	X	-	Х
c. Specified size, grade, and type of reinforcement, anchor bolts, prestressing tendons, and anchorages.	Х	-	Х
d. Welding of reinforcing bars.	-	Х	-
e. Preparation, construction, and protection of masonry during cold weather (temperature < 40°f) or hot weather (temperature > 90°f).	X	-	Х
f. Application and measurement of prestressing force.	-	X	-
6. Prior to grouting, the following shall be verified to ensure compliance:			•
a. Grout space is clean.	Χ	-	Х
b. Placement of reinforcement, connectors, prestressing tendons, and anchorages.	Χ	-	X
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.	Χ	-	Х
d. Construction of mortar joints.	X	-	Х
7. Grout placement shall be verified to ensure compliance with Building Code and Construction Document provisions.			
a. Grouting of prestressing bonded tendons.	-	X	-
8. Preparation of any required grout specimens, mortar specimens, and/or prisms shall be observed.	Х	-	Х

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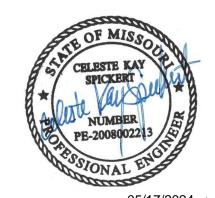
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EXPIRES: DECEMBER 31, 2024



HOME2

SHEET TITLE STRUCTURAL SPECIAL INSPECTIONS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

					3111/ TOP		
	Level 4	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	LSTA15 w/ (12) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.	
W1	Level 3	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	LSTA30 w/ (22) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.	
	Level 2	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 4" Edge Fastening, 16"O.C. Blocked	(2) 2x6	LSTA30 w/ (22) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 8" o.c.	1
	Level 1	(2) Sided, Gypsum Wallboard - 2 Ply 5/8" Thick, 6d @9" Base, 8d @ 7" Face, 16" Blocked	(2) 2x6	HTT4 w/ (18) SD #10x1-1/2 & 5/8"Ø Anchor Rod 8" Embedment	(1) 2x6 {	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max.	
	Level 4	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (14) 0.162X2 1/2" nails	(1) 2x6	(2) 16d Nails @ 6" o.c.	
MO	Level 3	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 2" o.c.	
W2	Level 2	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 2" o.c.	\wedge
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	HTT4 w/ (18) SD #10x1-1/2 & 5/8"Ø Anchor Rod 8" Embedment	(1) 2x6 {	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max.	}
	Level 4	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	LSTA30 w/ (22) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.	
W3	Level 3	(2) Sided, Gypsum Wallboard - 2 Ply 5/8" Thick, 6d @9" Base, 8d @ 7" Face, 16" Blocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 8" o.c.	
vvS	Level 2	(2) Sided, Gypsum Wallboard - 2 Ply 5/8" Thick, 6d @9" Base, 8d @ 7" Face, 16" Blocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 6" o.c.	\wedge
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	HTT5-3/4 w/ (26) 0.162"Øx2-1/2" & 3/4"Ø Anchor Rod 8" Embedment	(1) 2x6 {	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max.	\frac{\frac{1}{1}}{1}
	Level 4	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 8" o.c.	
	Level 3	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 6" o.c.	
W4	Level 2	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 3" Edge fastening	(2) 2x6	MST60 w/ (46) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 4" o.c.	٨
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 3" Edge fastening	(3) 2x6	HHDQ11-SDS2.5 w/ (24) 1/4"Øx2-1/4" SDS screws & 1"Ø Anchor Rod 12" Embedment	(1) 2x6 {	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max.	3

WOOD SHEAR WALL SCHEDULE

Hold-Down

Base Connection

Mark Level Sheathing/ Fastener Layout Post

	Level 4	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 3	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 8" o.c.
SW5	Level 2	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(2) 2x6	MST48 w/ (34) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 6" o.c.
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 4" Edge fastening	(3) 2x6	HDQ8-SDS3 w/ (20) 1/4"Øx3" SDS screws & 7/8"Ø Anchor Rod 10" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 16" o.c. max.
	Level 4	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	LSTA9 w/ (8) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
SW6	Level 3	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	LSTA9 w/ (8) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 2	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening Unblocked	(2) 2x6	LSTA9 w/ (8) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 16" o.c.
	Level 1	(1) Sided, Wood Structural Panels - Sheathing - 15/32" Thick, 10d Nail, 6" Edge fastening	(2) 2x6	DTT2Z w/ (8) 1/4"Øx1-1/2" SDS screws & 1/2"Ø Anchor Rod 4" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 32" o.c. max.
	Level 4	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	LSTA12 w/ (10) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 10" o.c.
SW7	Level 3	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 7" Edge Fastening, 16"O.C. Blocked	(2) 2x6	LSTA30 w/ (22) 0.148"x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 4" o.c.
	Level 2	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 4" Edge Fastening, 16"O.C. Blocked	(2) 2x6	MST37 w/ (22) 0.162x2-1/2" nails	(1) 2x6	(2) 16d Nails @ 3" o.c.
	Level 1	(2) Sided, Gypsum Wallboard - 5/8" Thick, 6d Nail, 4" Edge Fastening, 24"O.C. Unblocked	(2) 2x6	HTT4 w/ (18) SD #10x1-1/2 & 5/8"Ø Anchor Rod 6" Embedment	(1) 2x6	(1) 1/2"Ø x 6" Hilti KH-EZ @ 32" o.c. max.

- 1. See 2/S550 for typical shear wall framing
- 2. All hold down embedded anchors in concrete shall use Hilti HIT-HY 200 V3 Adhesive or Equivalent
- 3. All threaded rods shall be F1554 GR105
- 4. Floor to floor strap ties at top of wall shall match that of the floor above. 5. All hold downs and strap ties are Simpson Strong-Tie brand, U.N.O.
- 6. All drag trusses shall be connected to shear walls per detail 4/S530.
- 7. Provide floor to floor strapping on the same side as the OSB sheathing.
- 8. See 3/S550 for shear wall to foundation hold-down detail. 9. Minimum spacing of Level 1 KH-EZ bottom plate fasteners = 4"

BY HILTON SUITES HOME2

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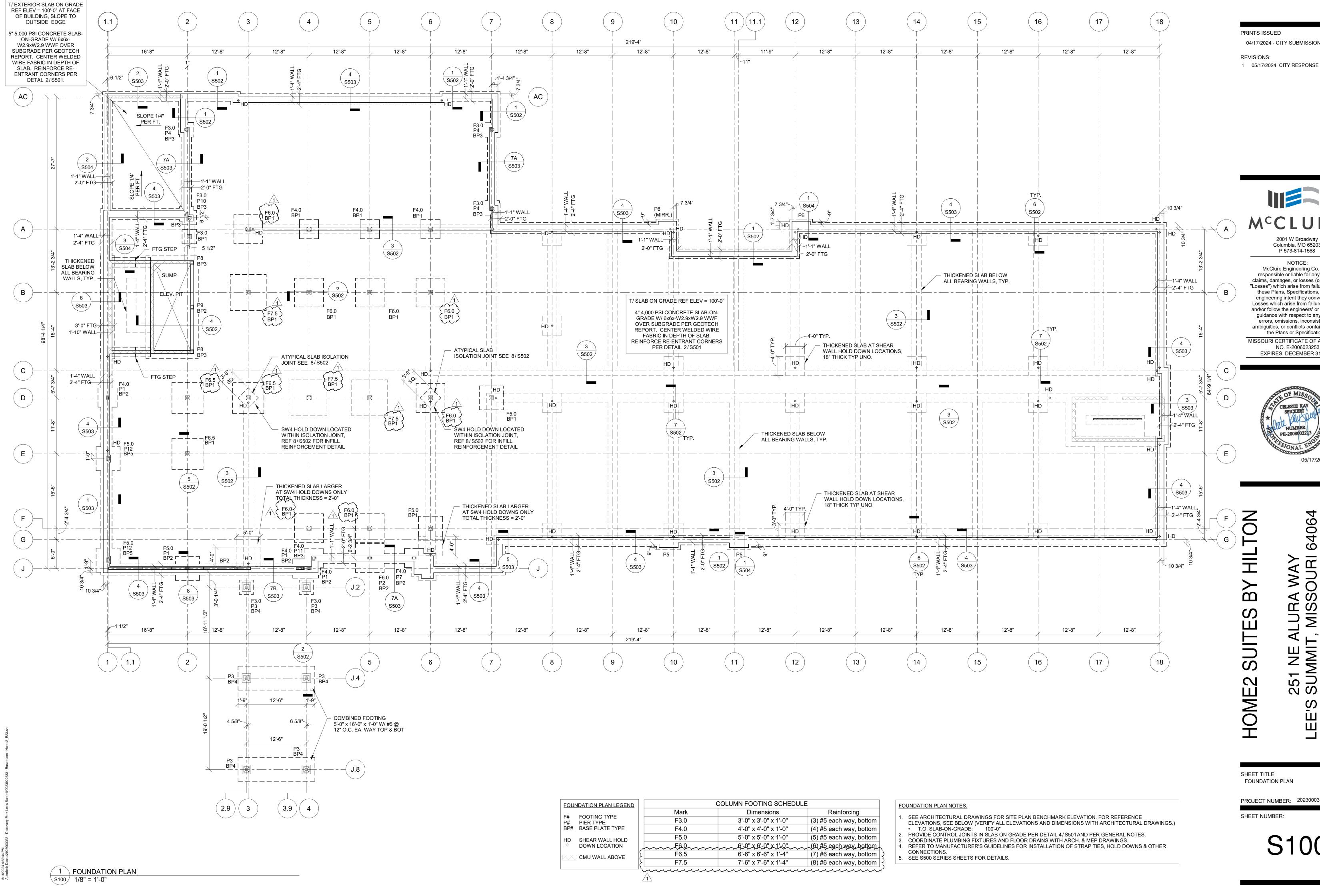
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SHEET TITLE SCHEDULES

PROJECT NUMBER: 2023000333

SHEET NUMBER:

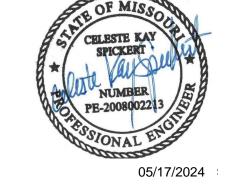


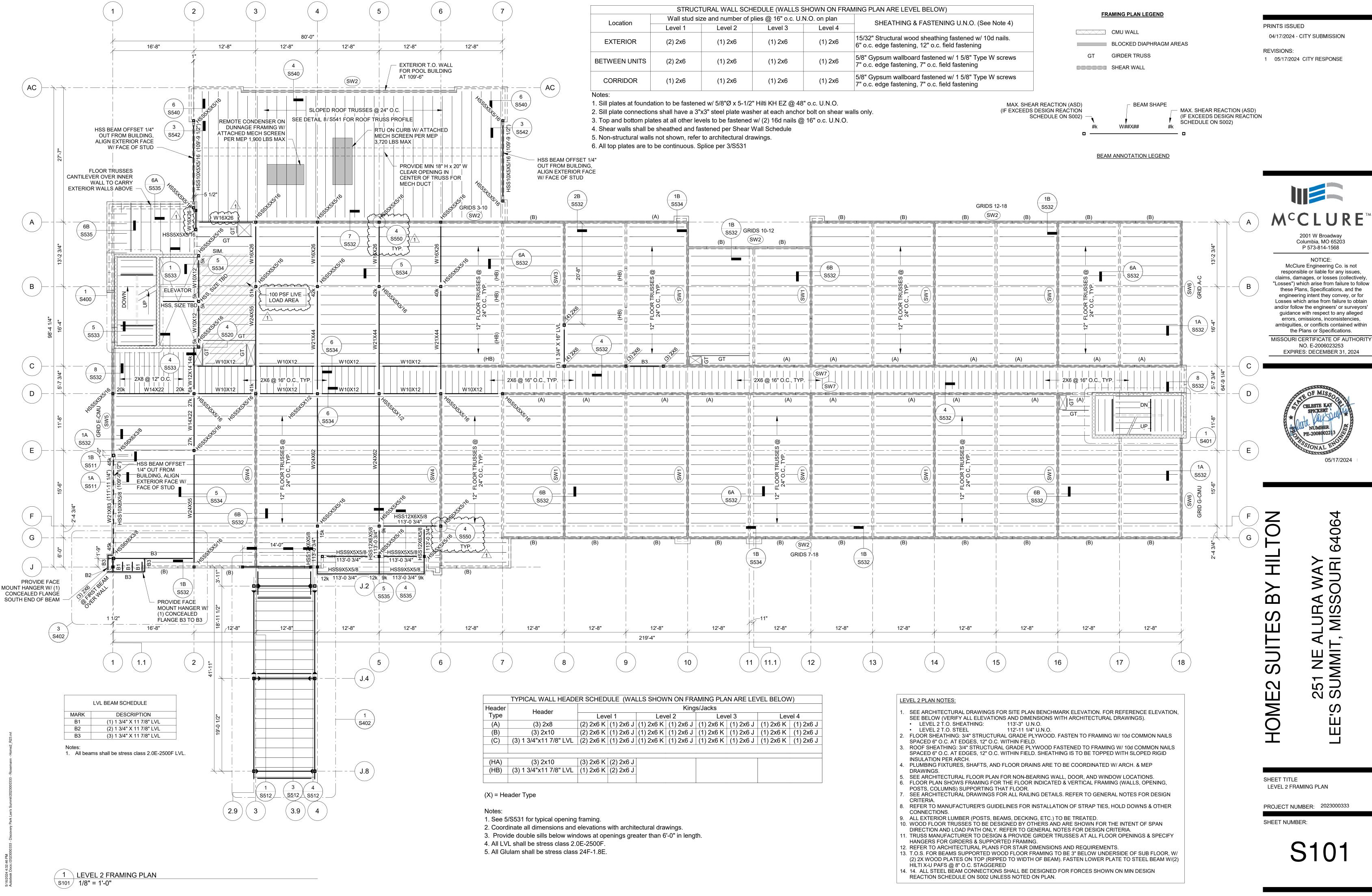
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1 05/17/2024 CITY RESPONSE

S532 \S532*/*

(B)

12'-8"

∕ 1B `

S532

12'-8"

1A \ S532 6B 6A ` ∖S532 / S532

12'-8"

7" o.c. edge fastening, 7" o.c. field fastening

STRUCTURAL WALL SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW) Wall stud size and number of plies @ 16" o.c. U.N.O. on plan SHEATHING & FASTENING U.N.O. (See Note 4) Location Level 1 Level 2 Level 3 Level 4 15/32" Structural wood sheathing fastened w/ 10d nails. 6" o.c. edge fastening, 12" o.c. field fastening **EXTERIOR** (1) 2x6 (2) 2x6 (1) 2x6 (1) 2x6

(1) 2x6

12'-8"

12'-8"

(1) 2x6

(1) 2x6

BETWEEN UNITS

CORRIDOR

S102 1/8" = 1'-0"

1A `

、S534 *∫*

∕ 1B \

16'-8"

1. Sill plates at foundation to be fastened w/ 5/8"Ø x 5-1/2" Hilti KH EZ @ 48" o.c. U.N.O.

ELEVATOR

2. Sill plate connections shall have a 3"x3" steel plate washer at each anchor bolt on shear walls only.

(1) 2x6

(1) 2x6

3. Top and bottom plates at all other levels to be fastened w/ (2) 16d nails @ 16" o.c. U.N.O.

4. Shear walls shall be sheathed and fastened per Shear Wall Schedule

6. All top plates are to be continuous. Splice per 3/S531

(1) 2x6

5. Non-structural v	walls not shown,	refer to architectural
---------------------	------------------	------------------------

Λ Γ	MING PLAN ARE LEVEL BELOW)	TYPICAL WALL HEADER SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)							V)		
AIVIING FLAN AILL LLVLL DLLOVV)		Header	Header	Kings/Jacks							
	SHEATHING & FASTENING U.N.O. (See Note 4)	Туре	ricadei	Leve	el 1	Lev	el 2	Lev	el 3	Lev	el 4
		(A)	(A) (3) 2x8 (2)		(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
	15/32" Structural wood sheathing fastened w/ 10d nails.	(B)	(3) 2x10	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
	6" o.c. edge fastening, 12" o.c. field fastening	(C)	(3) 1 3/4"x11 7/8" LVL	(2) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J	(1) 2x6 K	(1) 2x6 J
	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws										
	7" o.c. edge fastening, 7" o.c. field fastening										
	r eter eage racterning, r eter neta racterning	(HA)	(3) 2x10	(3) 2x6 K	(2) 2x6 J					ĺ	
	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws	(HB)	(3) 1 3/4"x11 7/8" LVL	(1) 2x6 K	(2) 2x6 J						
	7" o.c. edge fastening, 7" o.c. field fastening									İ	

S532

12'-8"

(X) = Header Type

12'-8"

1. See 5/S531 for typical opening framing.

Coordinate all dimensions and elevations with architectural drawings. 3. Provide double sills below windows at openings greater than 6'-0" in length.

4. All LVL shall be stress class 2.0E-2500F.

5. All Glulam shall be stress class 24F-1.8E.

LEVEL 3 PLAN NOTES:

14

12'-8"

12'-8"

13

S532

\ S532 /

6A

\S532 /

12'-8"

(SW7)

2X6 @ 16" O.C., TYP.

(B) (SW2)

12'-8"

\S534

11

12'-8"

12'-8"

219'-4"

GRIDS 7-18

12

1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION,

12'-8"

12'-8"

17

FRAMING PLAN LEGEND

- SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.). LEVEL 3 T.O. SHEATHING:
- 2. FLOOR SHEATHING: 3/4" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD.
- 3. PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS ARE TO BE COORDINATED W/ ARCH. & MEP

12'-8"

15

S532

- SEE ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS.
 FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING (WALLS, OPENING,
- POSTS, COLUMNS) SUPPORTING THAT FLOOR. 6. SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN
- 7. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER
- 8. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.
- 9. WOOD FLOOR TRUSSES TO BE DESIGNED BY OTHERS AND ARE SHOWN FOR THE INTENT OF SPAN
- DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA. 10. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY
- HANGERS FOR GIRDERS & SUPPORTED FRAMING. 11. REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITERIA.

呈 B

SUITES

HOME2

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Columbia, MO 65203

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errors, omissions, inconsistencies,

S532

| **∖** S532

S401

S532

ambiguities, or conflicts contained within the Plans or Specifications.

MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253

EXPIRES: DECEMBER 31, 2024

P 573-814-1568

SHEET TITLE

PROJECT NUMBER: 2023000333

LEVEL 3 FRAMING PLAN

SHEET NUMBER:

1 LEVEL 3 FRAMING PLAN

CMU WALL

BLOCKED DIAPHRAGM AREAS

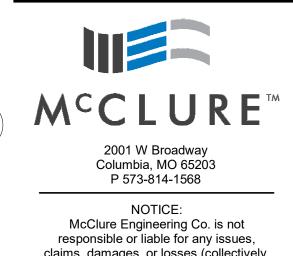
GIRDER TRUSS

SHEAR WALL

PRINTS ISSUED

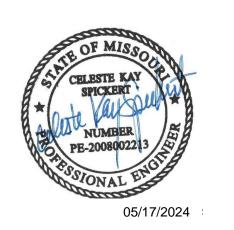
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EXPIRES: DECEMBER 31, 2024

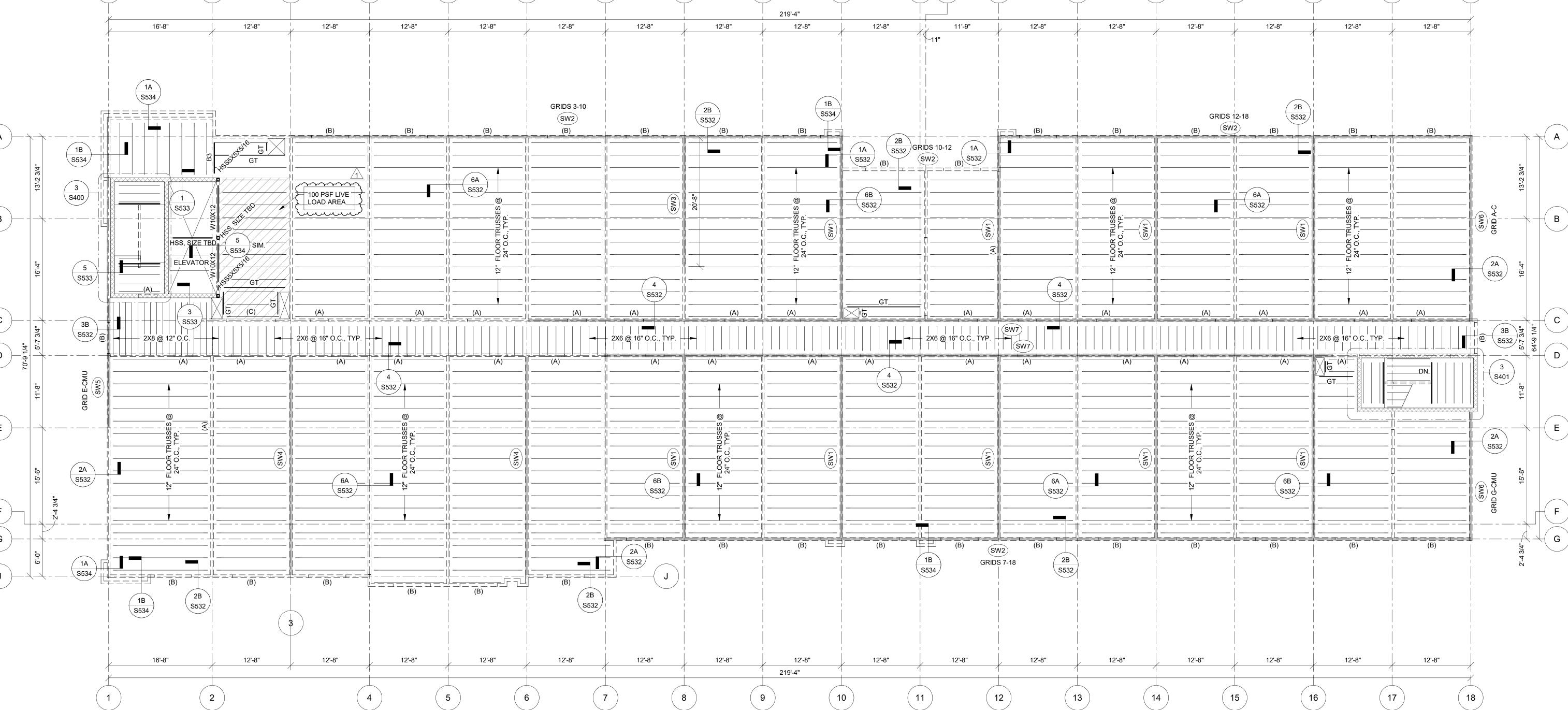


量 B SUITES HOME2

SHEET TITLE LEVEL 4 FRAMING PLAN

PROJECT NUMBER: 2023000333

SHEET NUMBER:



STRUCTURAL WALL SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)								
Location	Wall stud siz	ze and number of p	olies @ 16" o.c. U.	N.O. on plan	SHEATHING & FASTENING U.N.O. (See Note 4)			
Location	Level 1	Level 2	Level 3	Level 4	STILATITING & FASTEINING U.N.O. (See Note 4)			
EXTERIOR	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	15/32" Structural wood sheathing fastened w/ 10d nails. 6" o.c. edge fastening, 12" o.c. field fastening			
BETWEEN UNITS	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening			
CORRIDOR	(1) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening			

- 1. Sill plates at foundation to be fastened w/ 5/8"Ø x 5-1/2" Hilti KH EZ @ 48" o.c. U.N.O.
- 2. Sill plate connections shall have a 3"x3" steel plate washer at each anchor bolt on shear walls only.
- 4. Shear walls shall be sheathed and fastened per Shear Wall Schedule
- 5. Non-structural walls not shown, refer to architectural drawings.
- 6. All top plates are to be continuous. Splice per 3/S531
- 3. Top and bottom plates at all other levels to be fastened w/ (2) 16d nails @ 16" o.c. U.N.O.

ning		
" Type W screws ing		
" Type W screws ing	-	_

(X) = Header Type

Header

Type

1. See 5/S531 for typical opening framing.

(3) 2x10

2. Coordinate all dimensions and elevations with architectural drawings.

(3) 1 3/4"x11 7/8" LVL (1) 2x6 K (2) 2x6 J

(3) 2x6 K (2) 2x6 J

TYPICAL WALL HEADER SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)

Level 2

(3) 1 3/4"x11 7/8" LVL | (2) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J

| (2) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J

| (2) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J

- 3. Provide double sills below windows at openings greater than 6'-0" in length.
- 5. All Glulam shall be stress class 24F-1.8E.

LEVEL 4 PLAN NOTES:

- 1. SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION, SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.).
- LEVEL 4 T.O. SHEATHING: 133'-9" U.N.O. 2. FLOOR SHEATHING IS TO BE 3/4" STRUCTURAL GRADE PLYWOOD. FASTEN TO FRAMING W/ 10d COMMON

4. ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE PER WALL SCHEDULE ON SHEET S004. SEE

- NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD. 3. PLUMBING FIXTURES, SHAFTS, AND FLOOR DRAINS ARE TO BE COORDINATED W/ ARCH. & MEP
- ARCHITECTURAL FLOOR PLAN FOR NON-BEARING WALL, DOOR, AND WINDOW LOCATIONS. FLOOR PLAN SHOWS FRAMING FOR THE FLOOR INDICATED & VERTICAL FRAMING (WALLS, OPENING,
- POSTS, COLUMNS) SUPPORTING THAT FLOOR.
- 6. SEE ARCHITECTURAL DRAWINGS FOR ALL RAILING DETAILS. REFER TO GENERAL NOTES FOR DESIGN
- REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER 8. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.

9. WOOD FLOOR TRUSSES TO BE DESIGNED BY OTHERS AND ARE SHOWN FOR THE INTENT OF SPAN

10. TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY

HANGERS FOR GIRDERS & SUPPORTED FRAMING.

DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

11. REFER TO ARCHITECTURAL PLANS FOR STAIR DIMENSIONS AND REQUIREMENTS. REFER TO STRUCTURAL GENERAL NOTES FOR STAIR DESIGN CRITERIA.

All LVL shall be stress class 2.0E-2500F.

1 LEVEL 4 FRAMING PLAN S103 1/8" = 1'-0"

BLOCKED DIAPHRAGM AREAS

GIRDER TRUSS

□□□□□□ SHEAR WALL

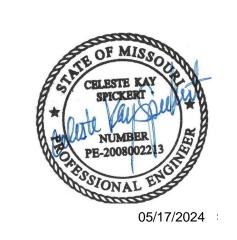
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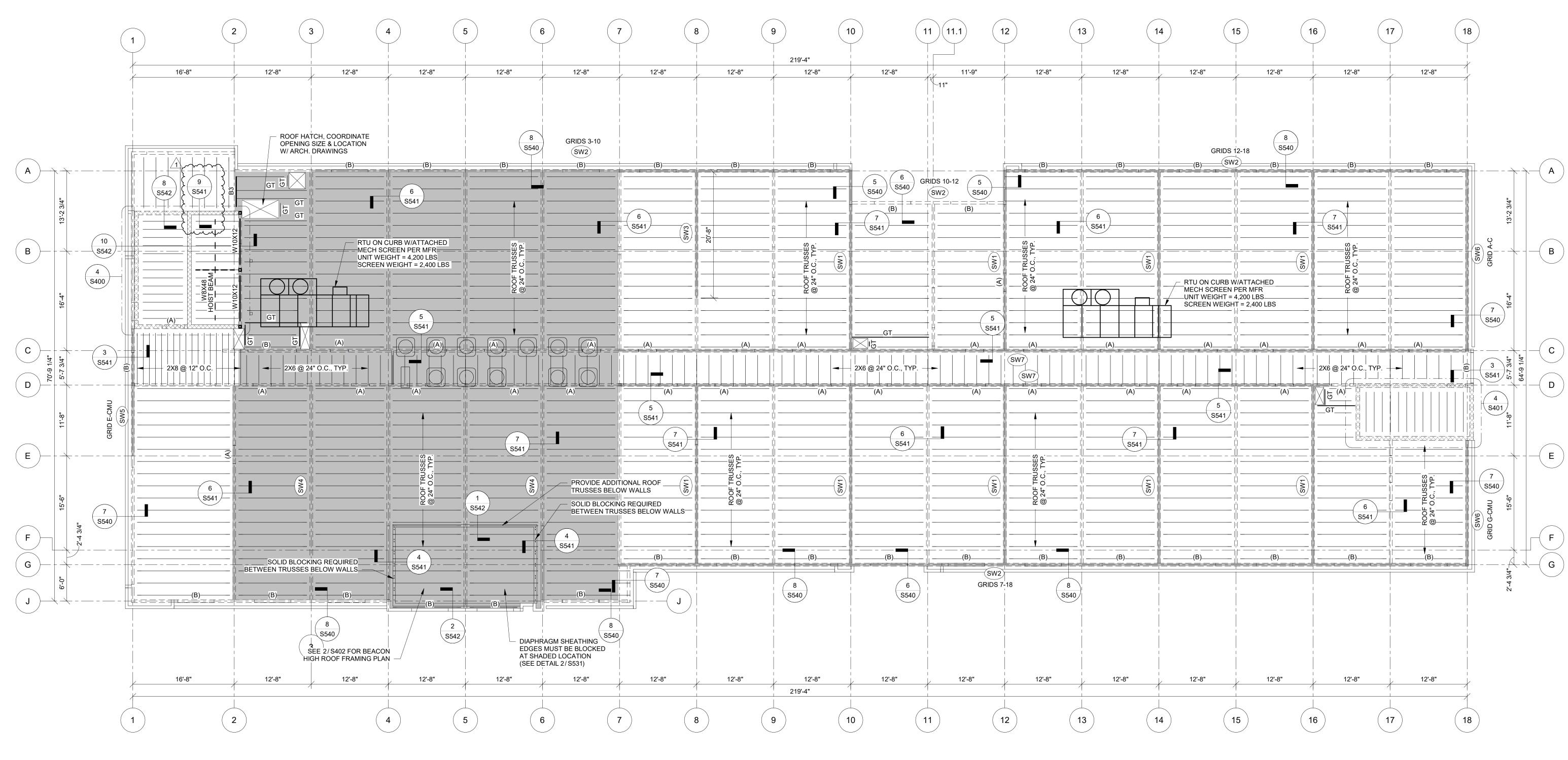
BY SUITES HOME2

SHEET TITLE

PROJECT NUMBER: 2023000333

SHEET NUMBER:

ROOF FRAMING PLAN



	STRUCT	URAL WALL SCH	IEDULE (WALLS S	SHOWN ON FR	AMING PLAN ARE LEVEL BELOW)
Location	Wall stud siz	ze and number of p	olies @ 16" o.c. U.	SHEATHING & FASTENING U.N.O. (See Note 4)	
Location	Level 1	Level 2	Level 3	Level 4	STILATING & FASTENING 6.N.O. (See Note 4)
EXTERIOR	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	15/32" Structural wood sheathing fastened w/ 10d nails. 6" o.c. edge fastening, 12" o.c. field fastening
BETWEEN UNITS	(2) 2x6	(1) 2x6	(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening
CORRIDOR	OOR (1) 2x6 (1) 2x6		(1) 2x6	(1) 2x6	5/8" Gypsum wallboard fastened w/ 1 5/8" Type W screws 7" o.c. edge fastening, 7" o.c. field fastening

- 1. Sill plates at foundation to be fastened w/ 5/8"Ø x 5-1/2" Hilti KH EZ @ 48" o.c. U.N.O.
- 2. Sill plate connections shall have a 3"x3" steel plate washer at each anchor bolt on shear walls only.
- 3. Top and bottom plates at all other levels to be fastened w/ (2) 16d nails @ 16" o.c. U.N.O.
- 4. Shear walls shall be sheathed and fastened per Shear Wall Schedule
- 5. Non-structural walls not shown, refer to architectural drawings. 6. All top plates are to be continuous. Splice per 3/S531

Header

Type

- 2. Coordinate all dimensions and elevations with architectural drawings.
- 5. All Glulam shall be stress class 24F-1.8E.
- (X) = Header Type
- 1. See 5/S531 for typical opening framing.

(3) 2x8

(3) 2x10

(HB) | (3) 1 3/4"x11 7/8" LVL | (1) 2x6 K | (2) 2x6 J |

3. Provide double sills below windows at openings greater than 6'-0" in length.

Level 1

(3) 2x6 K (2) 2x6 J

TYPICAL WALL HEADER SCHEDULE (WALLS SHOWN ON FRAMING PLAN ARE LEVEL BELOW)

Level 2

(3) 1 3/4"x11 7/8" LVL (2) 2x6 K (1) 2x6 J (1) 2x6 K (1) 2x6 J (1) 2x6 K (1) 2x6 J (1) 2x6 K (1) 2x6 K (1) 2x6 J

Kings/Jacks

| (2) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J | (1) 2x6 K | (1) 2x6 J

(2) 2x6 K (1) 2x6 J (1) 2x6 K (1) 2x6 J (1) 2x6 K (1) 2x6 J (1) 2x6 J (1) 2x6 J

ROOF PLAN NOTES:

T.O. PARAPET

CONNECTIONS.

T.O. HIGH PARAPET

INSULATION PER ARCH.

ROOF TRUSS BEARING

SEE ARCHITECTURAL DRAWINGS FOR SITE PLAN BENCHMARK ELEVATION. FOR REFERENCE ELEVATION,

ROOF SHEATHING: 3/4" STRUCTURAL GRADE PLYWOOD FASTENED TO FRAMING W/ 10d COMMON NAILS SPACED 6" O.C. AT EDGES, 12" O.C. WITHIN FIELD. SHEATHING IS TO BE TOPPED WITH SLOPED RIGID

5. REFER TO MANUFACTURER'S GUIDELINES FOR INSTALLATION OF STRAP TIES, HOLD DOWNS & OTHER

TRUSS MANUFACTURER TO DESIGN & PROVIDE GIRDER TRUSSES AT ALL FLOOR OPENINGS & SPECIFY

VERIFY SPECIFIED ELEVATOR HOIST BEAM AND SUPPORTING FRAMING W/ ELEVATOR MANUFACTURER.

10. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF STRAP TIES, HOLD DOWNS, & OTHER

WOOD ROOF TRUSSES (DESIGN PER MANUFACTURER) ARE SHOWN FOR THE INTENT OF SPAN

SEE BELOW (VERIFY ALL ELEVATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.)

142'-10"

147'-8"

4. PARAPET FRAMING TO BE PART OF THE ROOF TRUSSES (DESIGN PER MANUFACTURER).

DIRECTION AND LOAD PATH ONLY. REFER TO GENERAL NOTES FOR DESIGN CRITERIA.

RTU PENETRATIONS TO BE COORDINATED W/ ARCH. & MEP DRAWINGS.

6. ALL EXTERIOR LUMBER (POSTS, BEAMS, DECKING, ETC.) TO BE TREATED.

HANGERS FOR GIRDERS & SUPPORTED FRAMING.

- 4. All LVL shall be stress class 2.0E-2500F.

| | | | | |

—(3) 2X10—

(3) 2X10

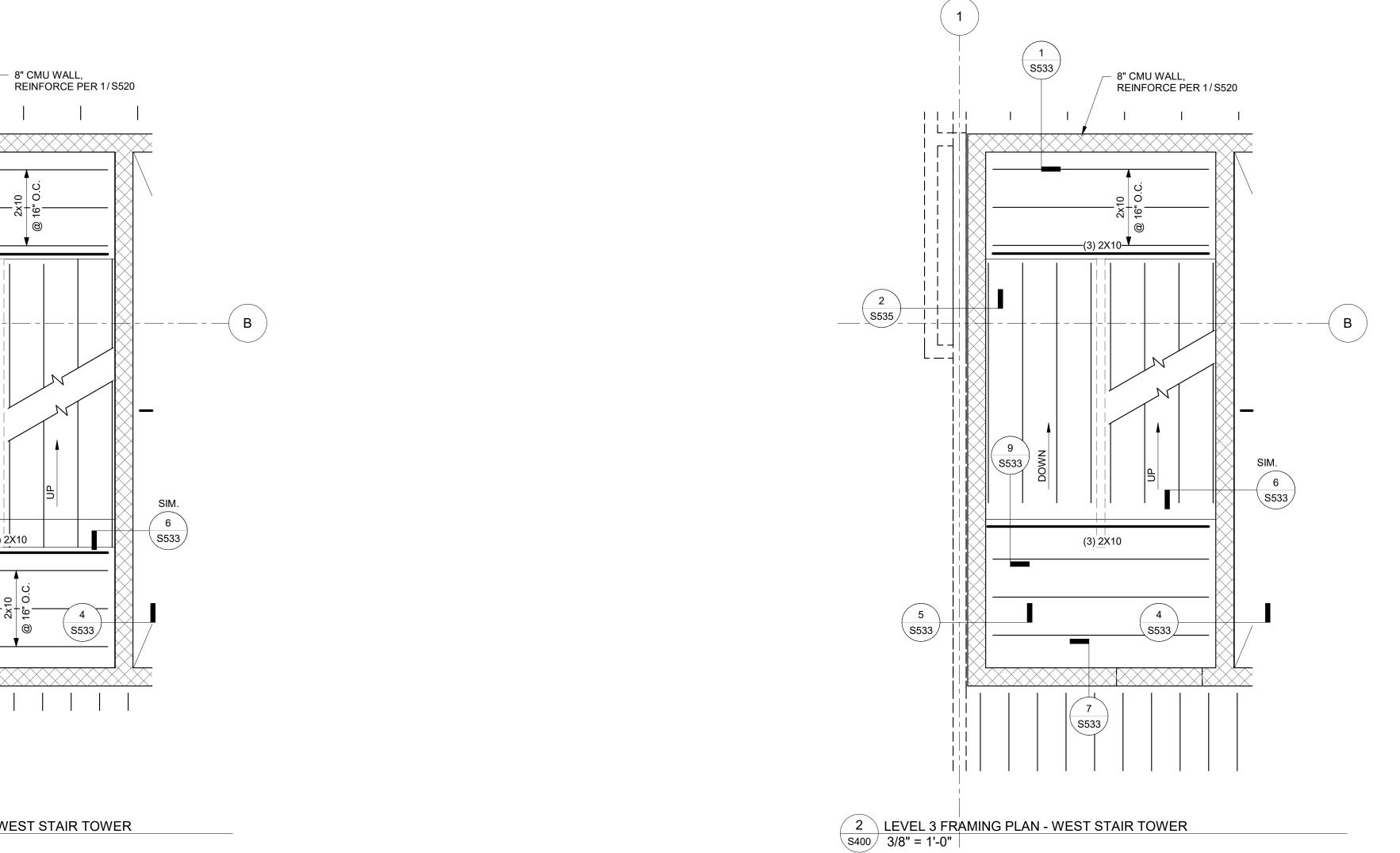
S533

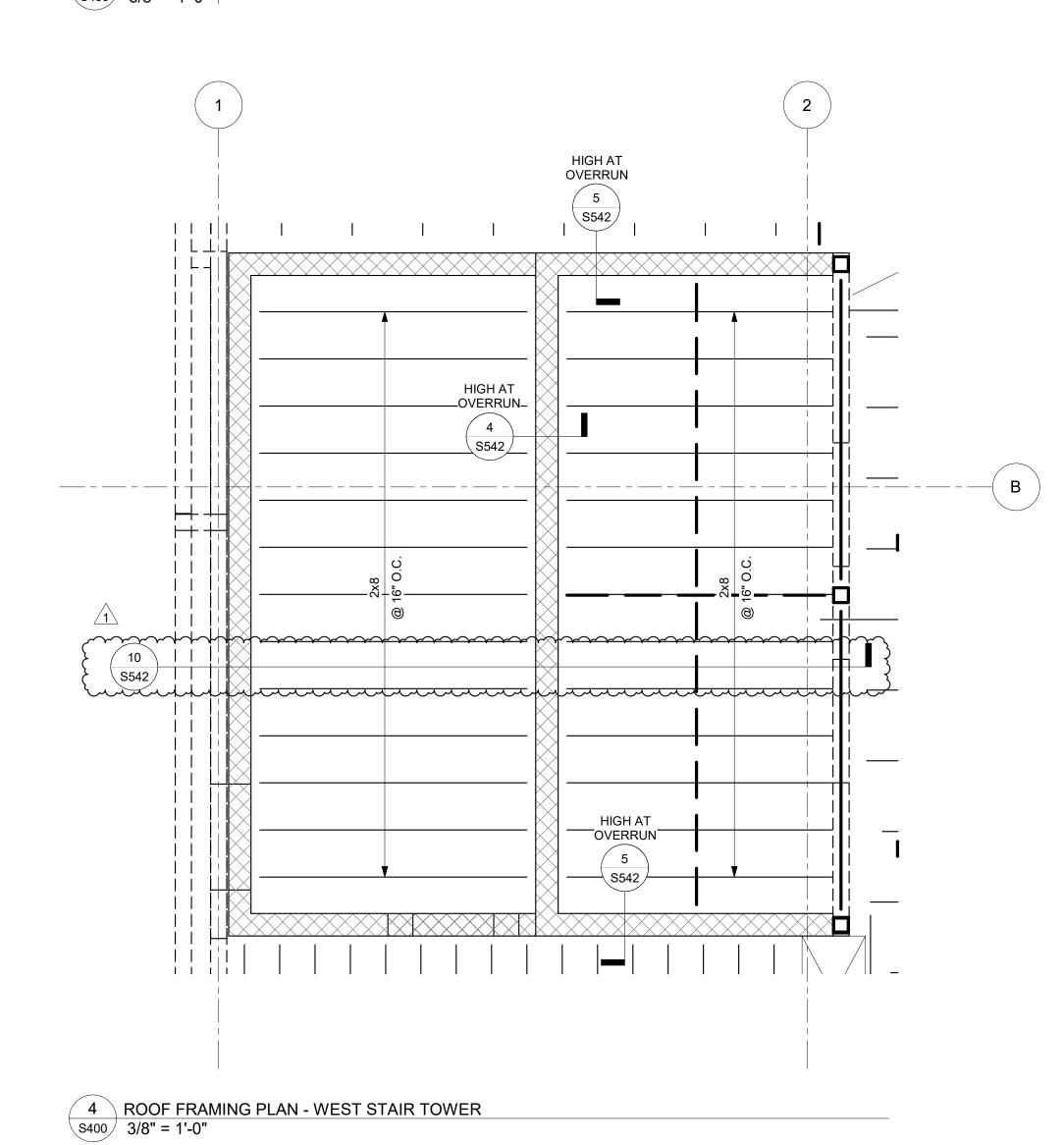
S533

S533 /

1 S535 | | |

5 \$533





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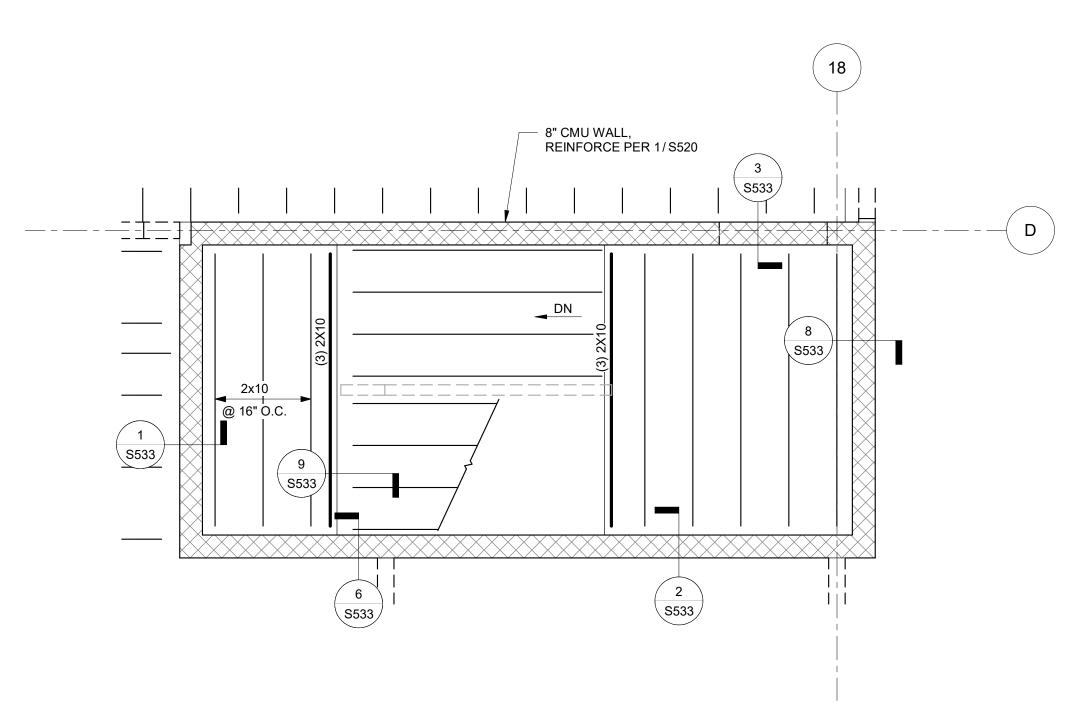
BY HILTON SUITES HOME2

SHEET TITLE

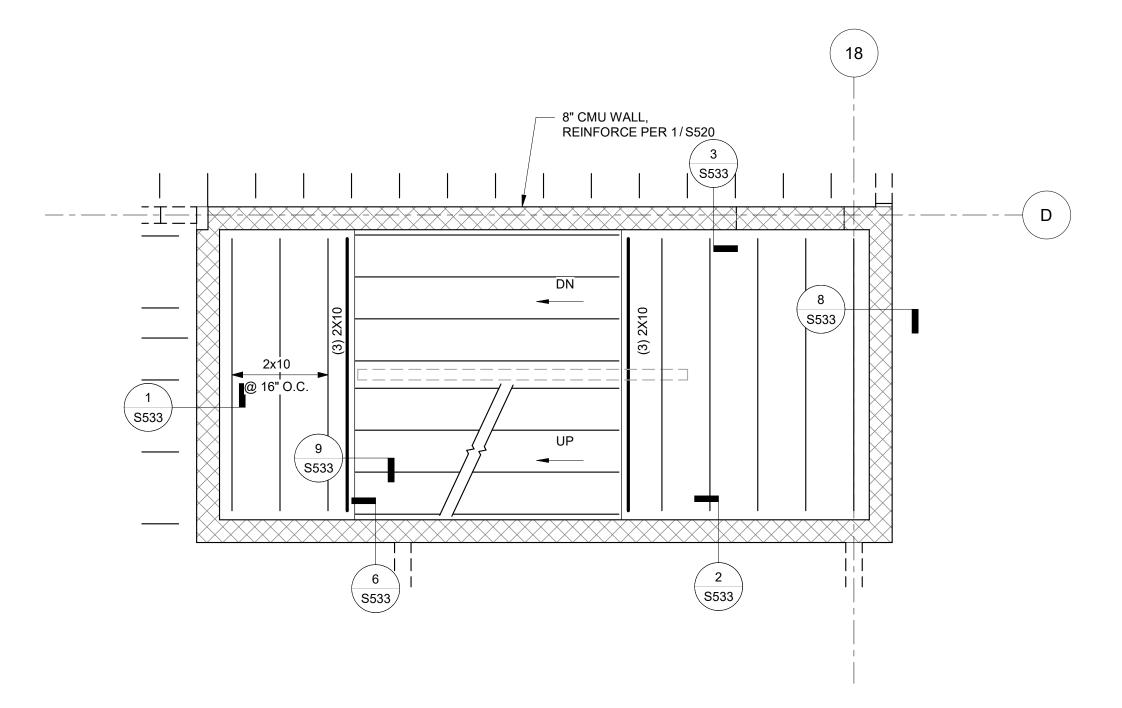
SHEET NUMBER:

ENLARGED VIEWS

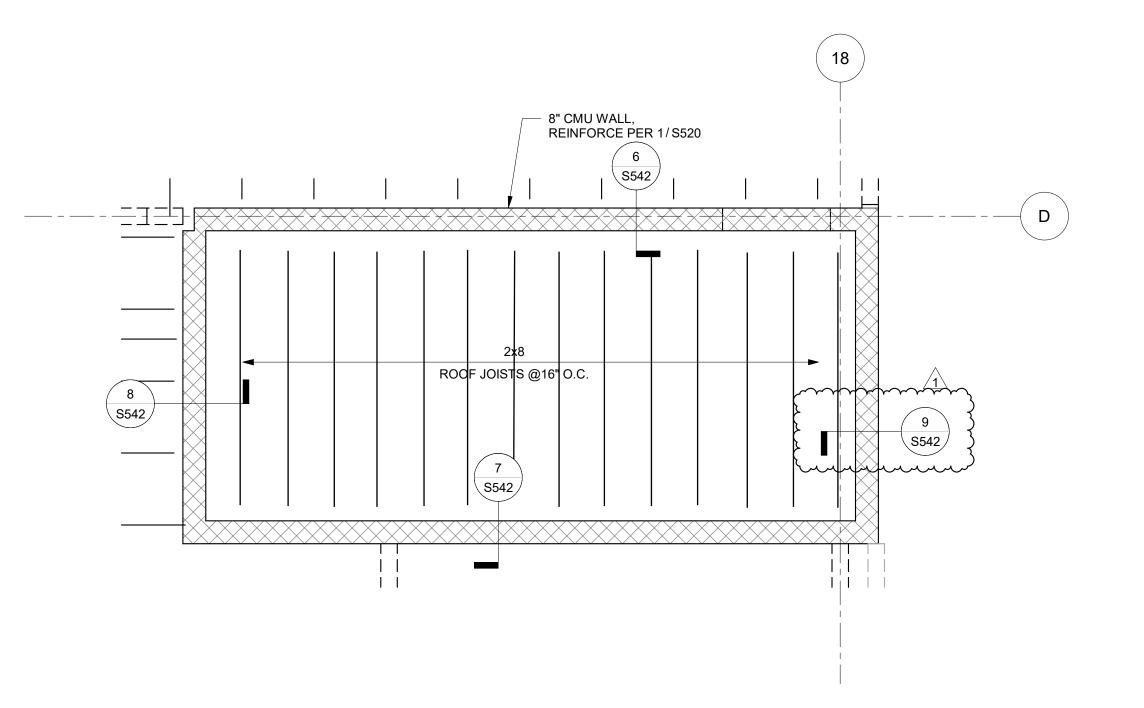
1 LEVEL 2 FRAMING PLAN - EAST STAIR TOWER
3/8" = 1'-0"



3 LEVEL 4 FRAMING PLAN - EAST STAIR TOWER
3/8" = 1'-0"



2 LEVEL 3 FRAMING PLAN - EAST STAIR TOWER
3/8" = 1'-0"



4 ROOF FRAMING PLAN - EAST STAIR TOWER
3/8" = 1'-0"

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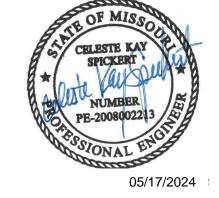


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NO. E-2006023253 EXPIRES: DECEMBER 31, 2024



HOME2 SUITES BY HILTON 251 NE ALURA WAY

SHEET TITLE ENLARGED VIEWS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

3401

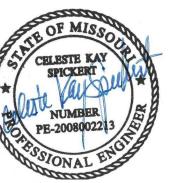


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MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253

EXPIRES: DECEMBER 31, 2024



05/17/20

251 NE ALURA WAY EE'S SUMMIT, MISSOURI 64064

SHEET TITLE ENLARGED VIEWS

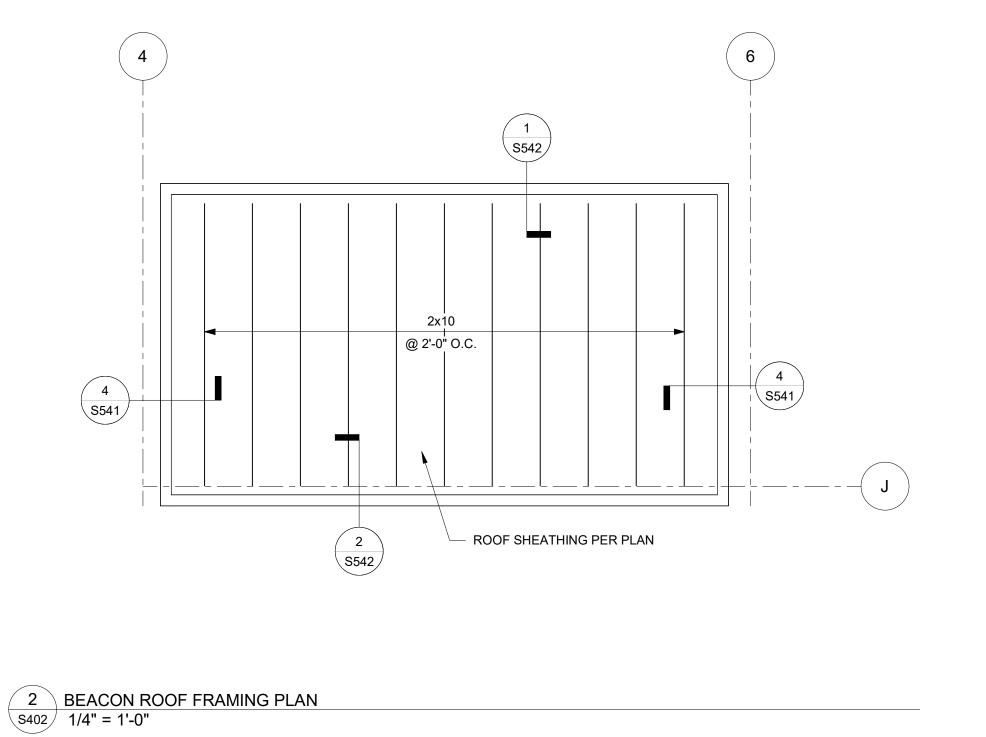
BY HILTON

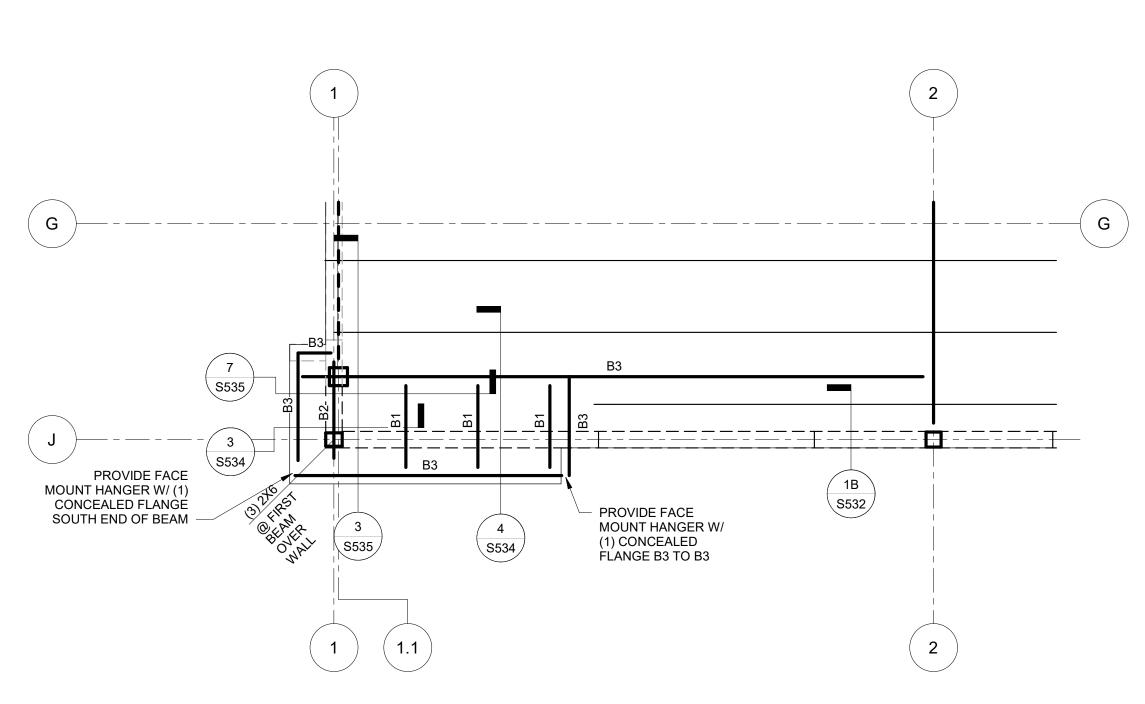
HOME2 SUITES

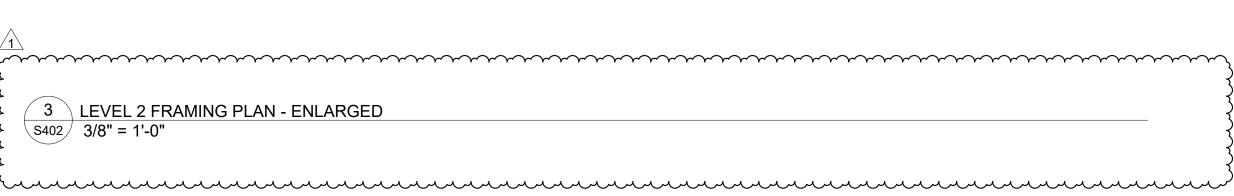
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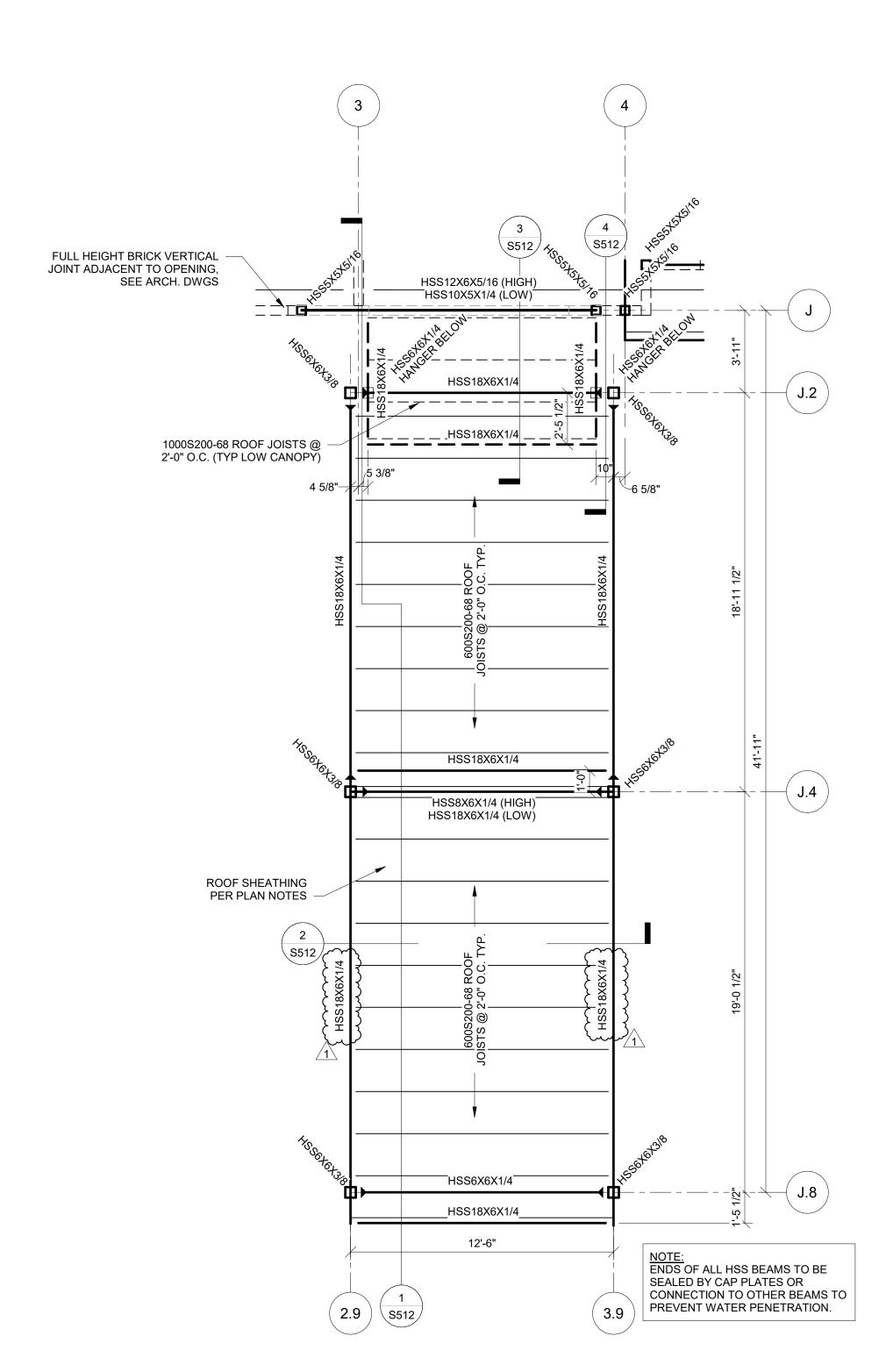
SHEET NUMBER:

3402









1 LEVEL 2 FRAMING PLAN - CANOPY PLAN 1/4" = 1'-0"

1 SECTION AT FOUNDATION 5502 1" = 1'-0"

4 ELEVATOR PIT DETAIL

S502 3/4" = 1'-0"

COLUMN PER PLAN

BASE PLATE & ANCHOR BOLTS
PER DETAILS ON SHEET S510

PAVEMENT PER CIVIL

SEE PLAN

SEE PLAN

F.F. ELEV.

SEE PLAN

REINFORCING PER
FOOTING SCHEDULE

PER FOUNDATION PLAN

2 STEEL COLUMN AT PEDESTAL S502 1" = 1'-0"

NON-STRUCTURAL WALL #5 BAR @ 12" O.C. W/ STD. HOOK INTO SLAB & WALL #5 BAR @ 12" O.C. CONCRETE SLAB ON GRADE, W/ STD. HOOK INTO SLAB & WALL 1 1/2" GALV. GRATING (4) SIDES SUMP PIT GALV. L3X3X1/4 W/ 1/2"ØX4" VERIFY W/ SPLICE LAP REBAR TITEN HD @ 12" O.C. ELEV. MFR. PER GENERAL NOTES TYPICAL SLAB REINFORCING NOT (3) #4 EACH WAY -SPLICE LAP REBAR SHOWN FOR CLARITY, #5 BAR 12" O.C. PER GENERAL NOTES INTERRUPT AT SUMP **BULB-TYPE WATERSTOP** TYP. (4) SIDES #5 BARS @ 12" O.C. EW TOP & BOTTOM -STANDARD 90° WATERSTOP, HOOK, TYP. TYP. (4) SIDES (3) #4 TIES -1'-0" TOP OF FOOTING
SEE PLAN TYP. SUMP DETAIL PROVIDE BOND BEAM WITH (2) #5 HORIZONTAL BARS AT ALL FLOORS AND GUIDE RAIL ATTACHMENT LOCATIONS. SEE FRAMING SECTIONS FOR APPROXIMATE BOND BEAM ELEVATIONS RELATIVE TO FLOOR FRAMING

SHEAR WALL END POST, HOLD DOWN & ANCHOR PER SHEAR WALL SCHEDULE ADJACENT WOOD WALL, STUD SIZE AND SPACING PER PLAN TYP. SLAB REINFORCING CONT. THICKENED SLAB REINFORCING F.F. ELEV.
SEE PLAN 2'-0" MIN. #5 X 2'-6" @ 12" O.C. DRILL 6" INTO FOUNDATION WALL & EPOXY W/ HILTI HIT-HY-200 UNDER-SLAB VAPOR BARRIER AND SUBGRADE PER GENERAL NOTES PER PLAN - #5 LONGITUDINAL BENT BARS @ 12" O.C., LAP 2'-0" W/ DOWELS AND SLAB REINFORCING - #5 TRANSVERSE BENT BARS @ 12" O.C., LAP 2'-0" W/ SLAB REINFORCING EA. END

SHEAR WALL END POST, HOLD DOWN & ANCHOR PER SHEAR WALL SCHEDULE ADJACENT WOOD WALL, STUD SIZE AND SPACING PER PLAN TYP. SLAB REINFORCING CONT. THICKENED SLAB REINFORCING -THICKENED SLAB AT SHEAR WALL HOLD DOWN LOCATION, SEE PLANS FOR DIMENSIONS UNDER-SLAB VAPOR BARRIER AND SUBGRADE PER GENERAL NOTES PER PLAN #5 BENT BARS @ 12" O.C. EACH WAY, LAP 2'-0" W/ SLAB REINFORCING EACH END —

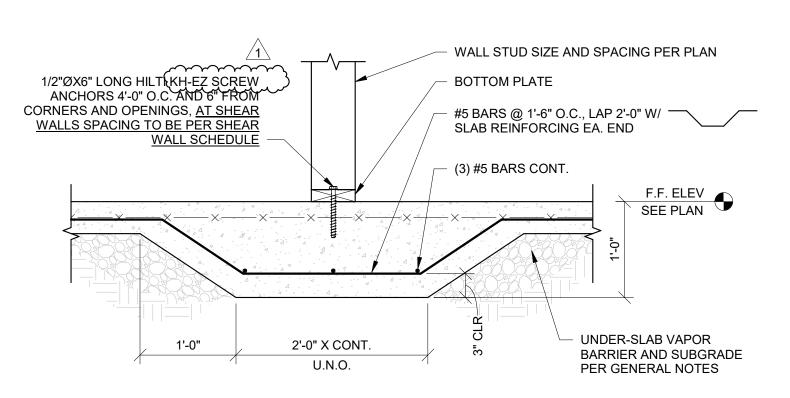
6 THICKENED SLAB AT SHEAR WALL HOLD DOWN - EXTERIOR

502 3/4" = 1'-0"

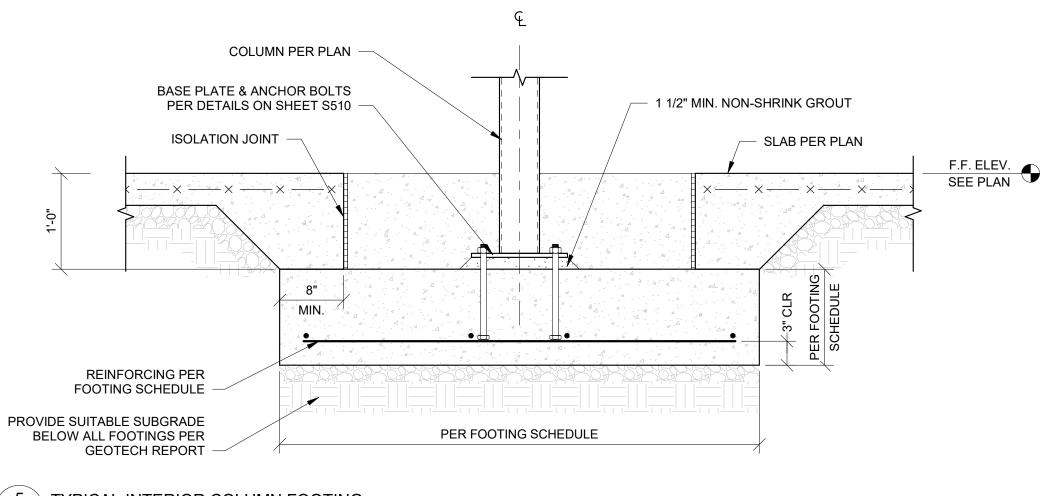
7 THICKENED SLAB AT SHEAR WALL HOLD DOWN - EXTERIOR

9502 3/4" = 1'-0"

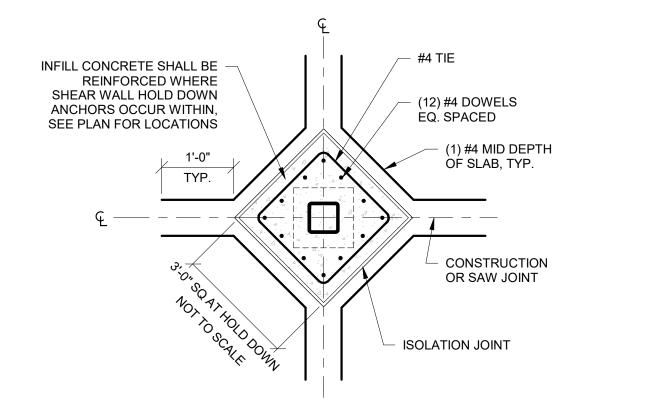
7 THICKENED SLAB AT SHEAR WALL HOLD DOWN - INTERIOR 3/4" = 1'-0"

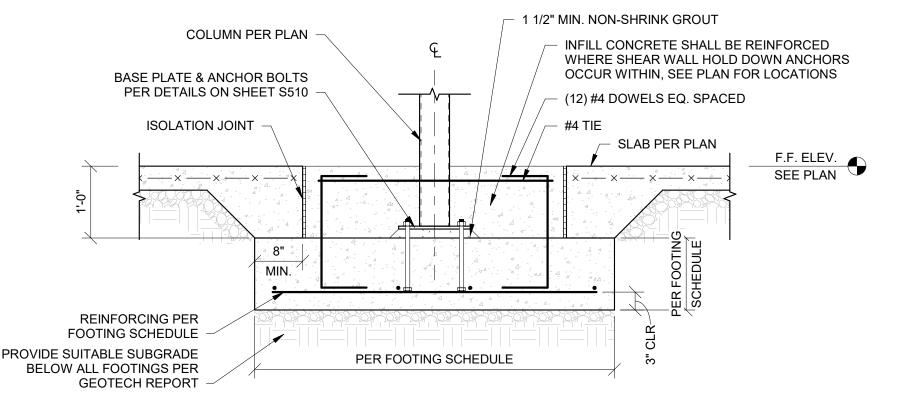


3 INTERIOR BEARING WALL AT THICKENED SLAB 5502 1" = 1'-0"



5 TYPICAL INTERIOR COLUMN FOOTING





8 SLAB ON GRADE ISOLATION JOINT AT COLUMN/SHEAR WALL S502 3/4" = 1'-0"

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HOME2 SUITES BY HILTON 251 NE ALURA WAY LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE FOUNDATION DETAILS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

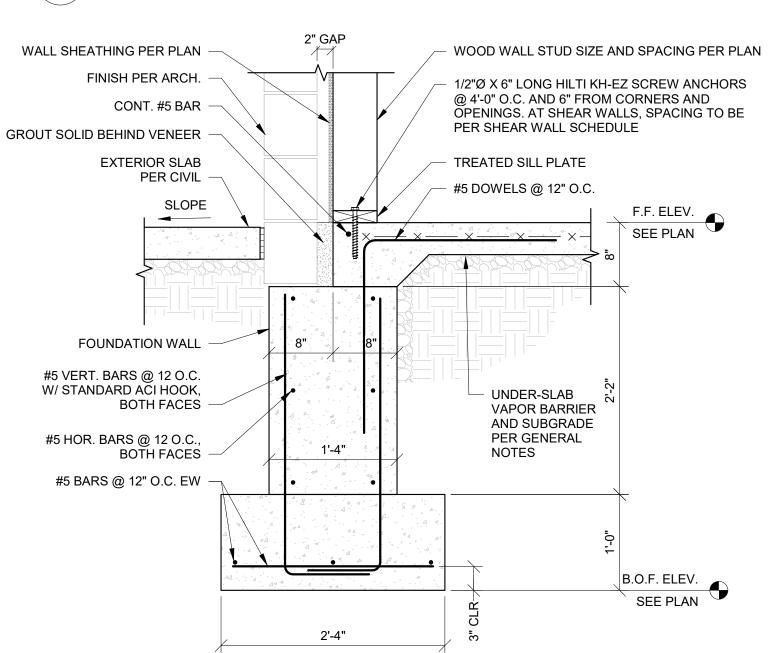
S502

FINISH BEYOND PER ARCH.

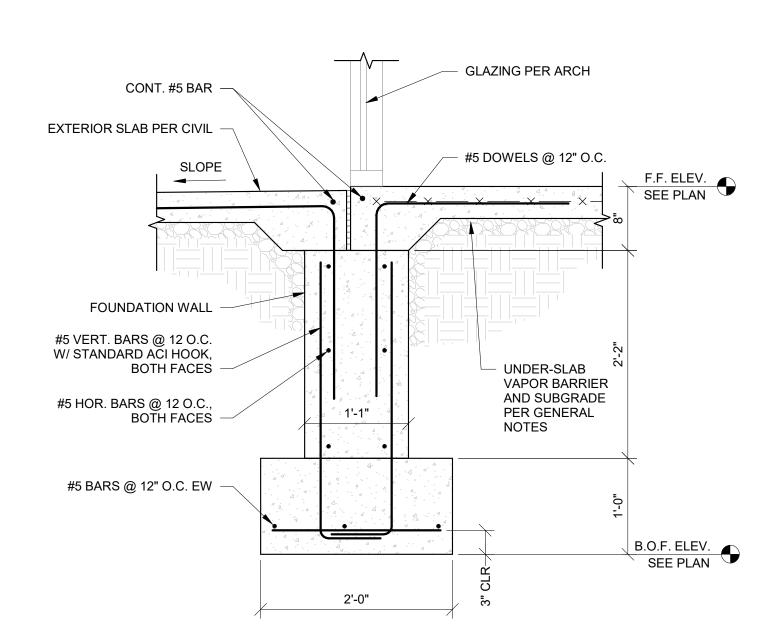
GLAZING PER ARCH

F.F. ELEV.
SEE PLAN

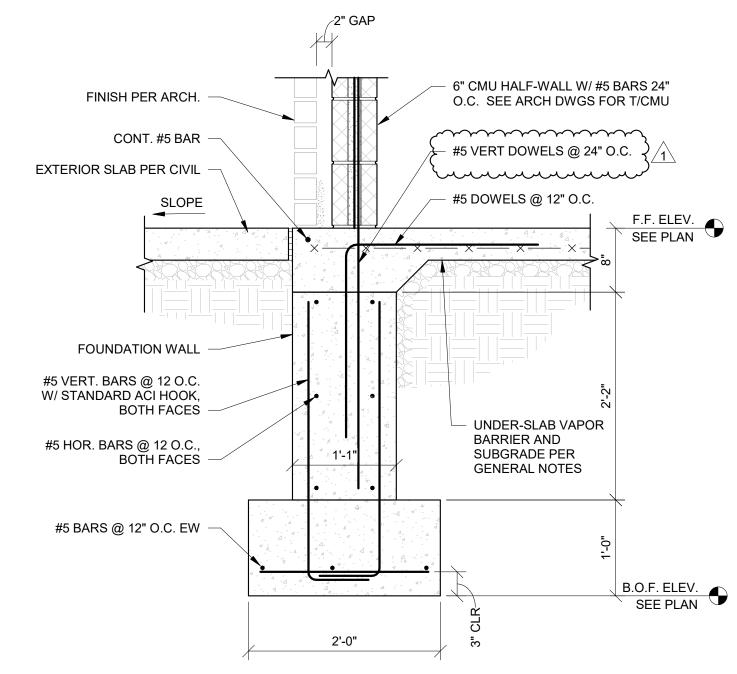
B.O.F. ELEV. SEE PLAN



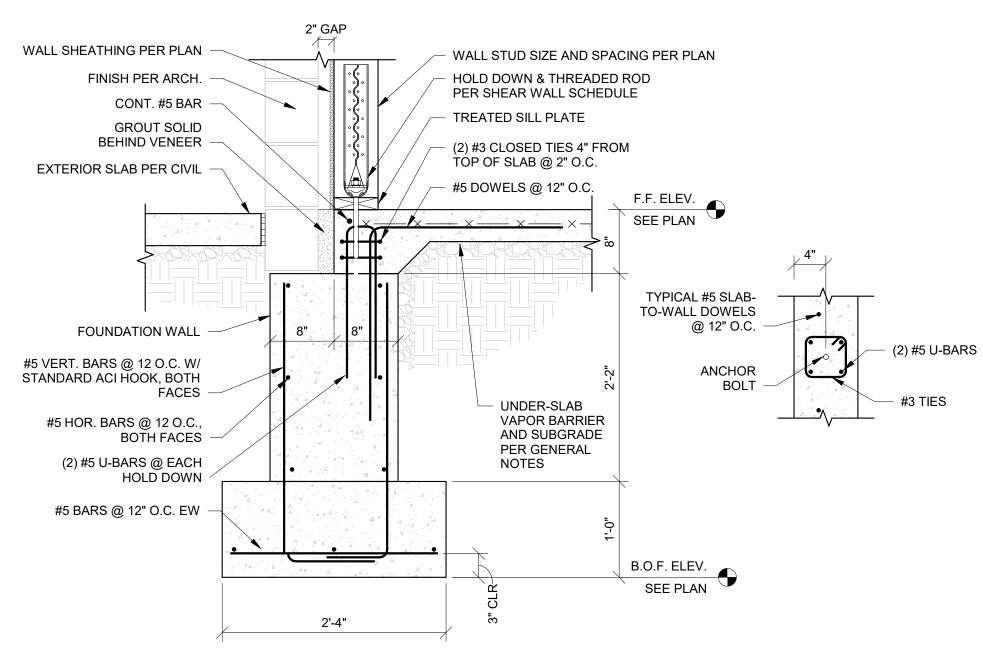
4 TYPICAL SECTION AT EXTERIOR FOUNDATION 1" = 1'-0"



7A FOUNDATION SECTION AT STOREFRONT 1" = 1'-0"

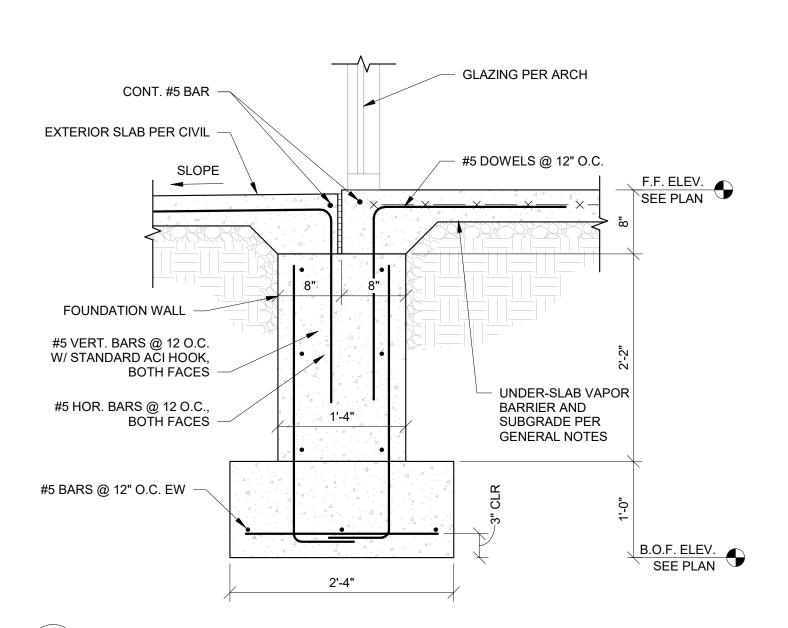


2 SECTION AT EXTERIOR PATIO FOUNDATION WITH CMU HALF-WALL 1" = 1'-0"

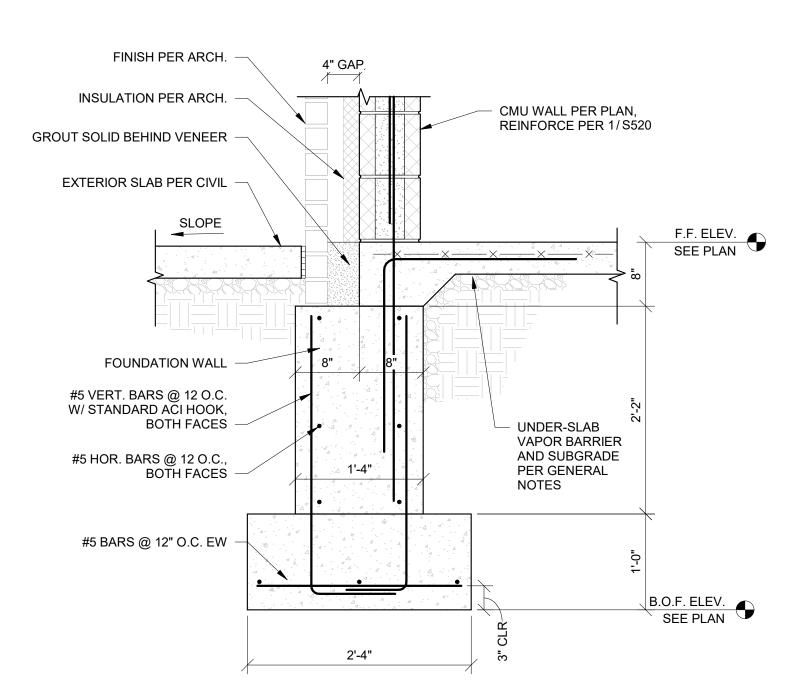


5 SECTION AT SHEAR WALL HOLD DOWN

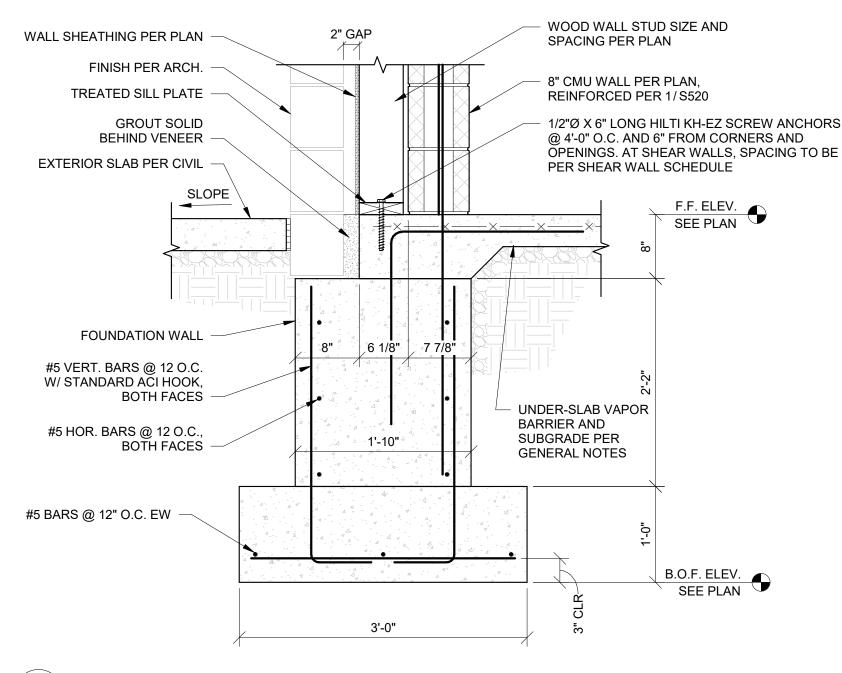
S503 1" = 1'-0"



7B FOUNDATION SECTION AT STOREFRONT \$503 1" = 1'-0"

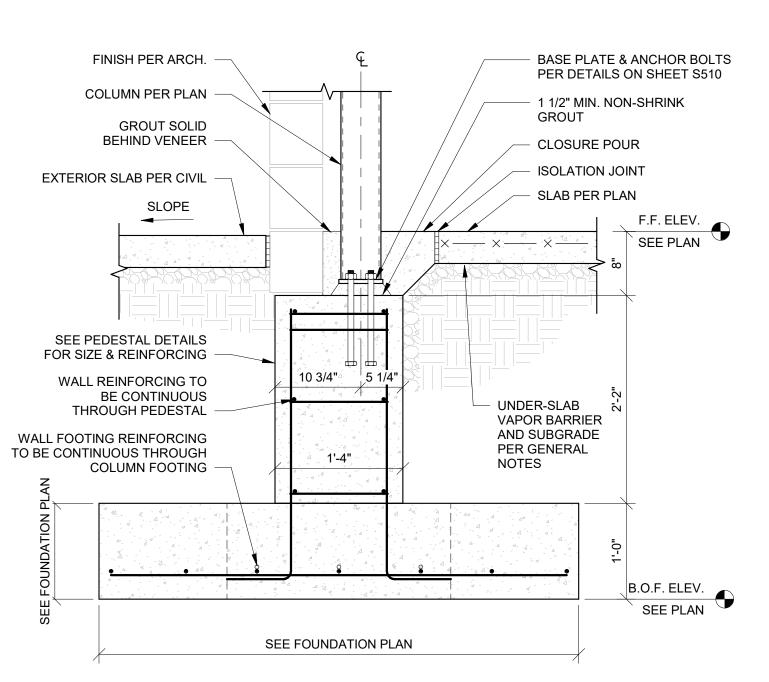






6 EXTERIOR FOUNDATION AT WEST STAIR TOWER

1" = 1'-0"



8 SECTION AT COLUMN PEDESTAL S503 1" = 1'-0"

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MCCLURE TM

Columbia, MO 65203

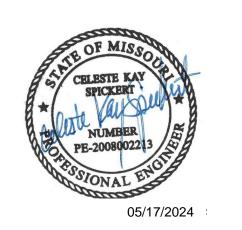
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MISSOURI CERTIFICATE OF AUTHORITY

NO. E-2006023253

EXPIRES: DECEMBER 31, 2024



HOME2 SUITES BY HILTON 251 NE ALURA WAY LEE'S SUMMIT, MISSOURI 64064

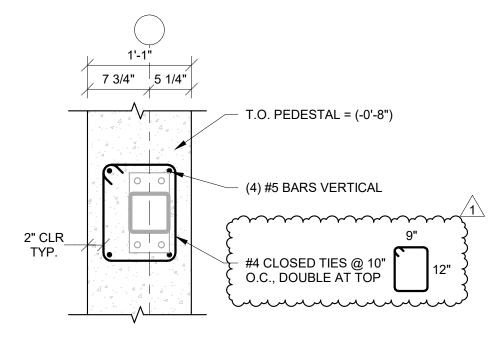
SHEET TITLE FOUNDATION DETAILS

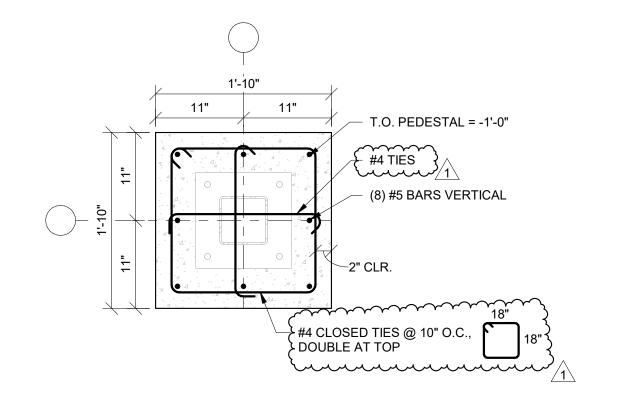
PROJECT NUMBER: 2023000333

SHEET NUMBER:

S503

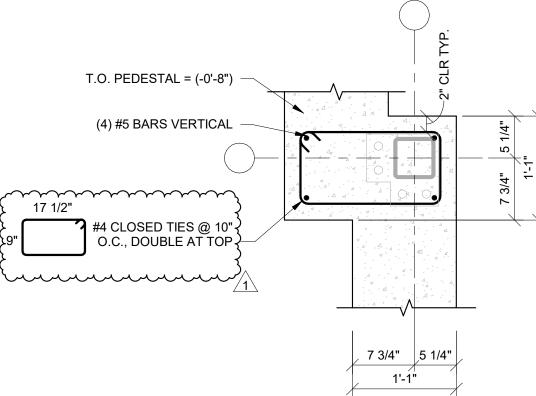
1 PEDESTAL P1 S505 1" = 1'-0"





{ #4 CLOSED TIES @ 10" O.C.,

DOUBLE AT TOP



4 PEDESTAL P4 S505 1" = 1'-0"

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REVISIONS:

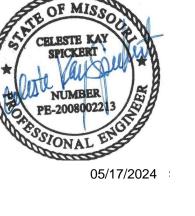
04/17/2024 - CITY SUBMISSION

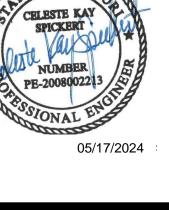
1 05/17/2024 CITY RESPONSE

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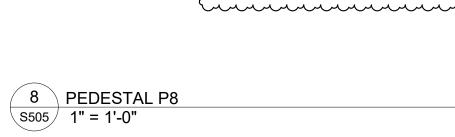


HILTON

BY

HOME2 SUITES

SHEET TITLE



1'-6"

1'-0 1/4"

- (7) #5 BARS VERTICAL

- #4 CLOSED TIES @ 10" O.C., - DOUBLE AT TOP

— T.O. PEDESTAL = (-0'-8")

(4) #5 BARS VERTICAL

T.O. PEDESTAL = (-0'-8")

#4 CLOSED TIES @ 10" O.C., DOUBLE AT TOP

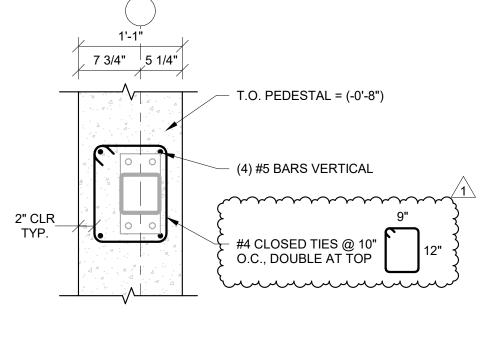
· Lunion Line

1 1/2" CLR TYP.

T.O. PEDESTAL = (-0'-8") 2" CLR TYP.-(4) #5 BARS VERTICAL #4 CLOSED TIES @ 10" O.C., DOUBLE AT TOP 1'-4"

2" CLR_ TYP. 12 PEDESTAL 12 S505 1" = 1'-0"

2" CLR TYP.





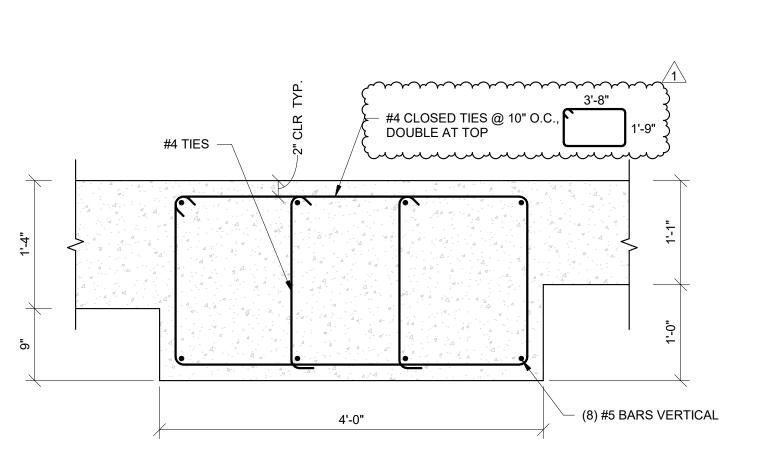


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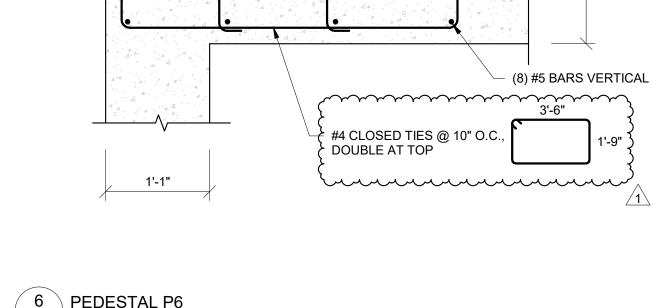
DOUBLE AT TOP

1'-2"

(#4 CLOSED TIES @ 10" O.C.,





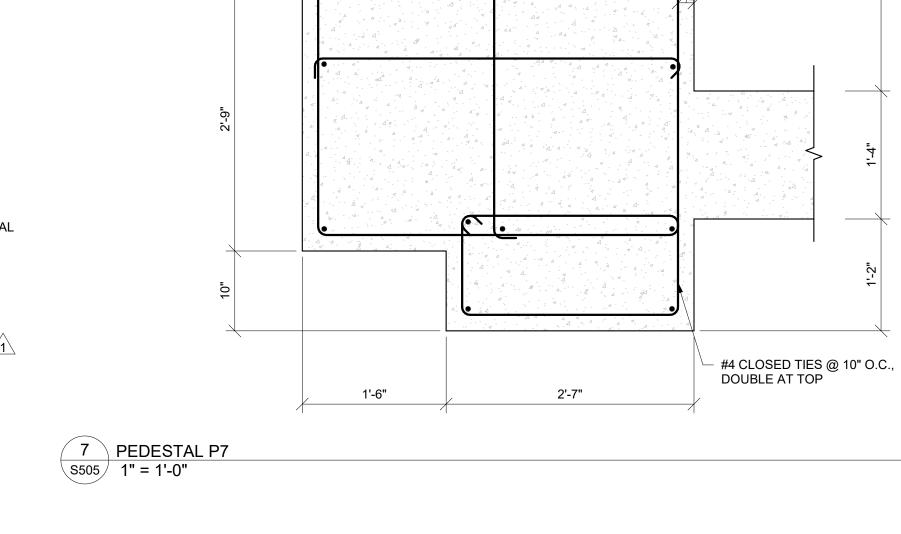


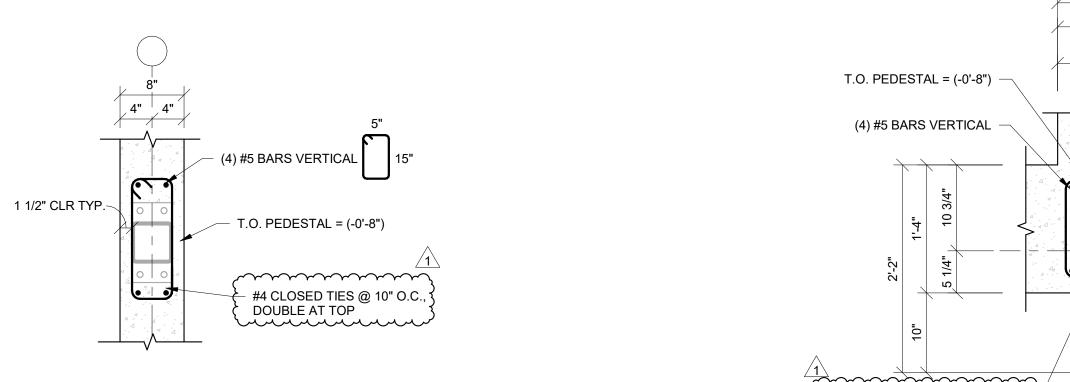
3'-10"

#4 TIES -

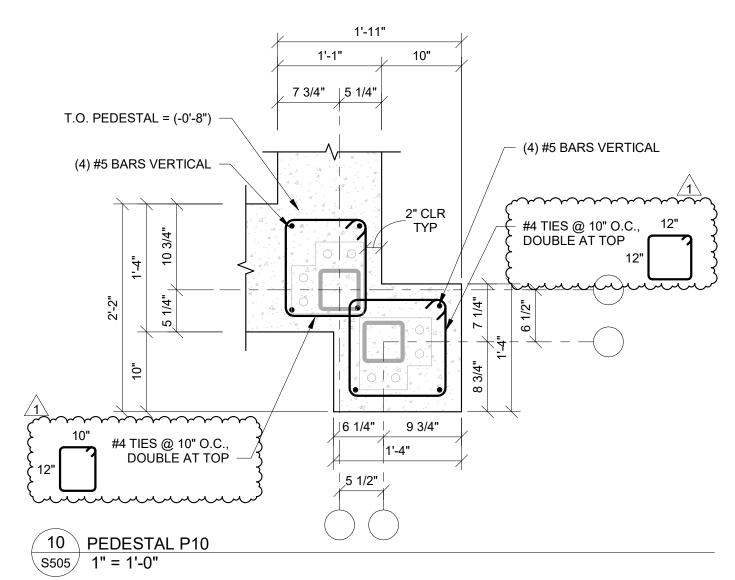
2" CLR TYP.-

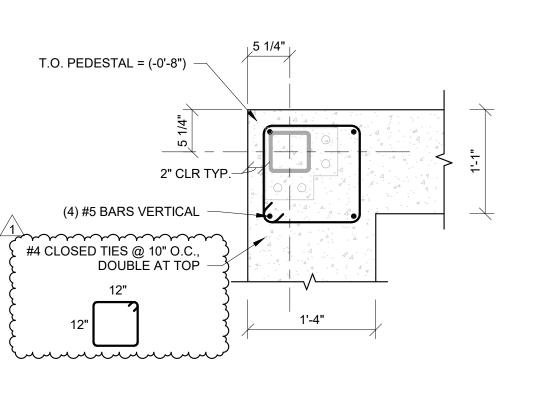








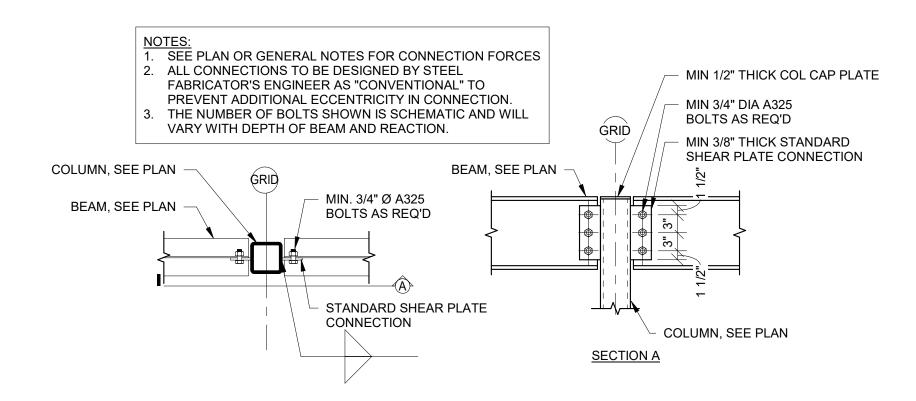




11 PEDESTAL P11 S505 1" = 1'-0"

SHEET NUMBER:

FOUNDATION PEDESTAL DETAILS



HILTI HY-200
OR APPROVED
EQUAL

POST INSTALL OPTION
ANCHOR BOLT DIAGRAM

STANDARD INSTALL OPTION
ANCHOR BOLT DIAGRAM

GROUT PLACEMENT

GROUT PLACEMENT

Ø PER BASE /PLATE DETAIL

TOF OR PEDESTAL

GROUT MAY BE BEVELED OR

FORMED BUT SHALL EXTEND A MIN "T" BEYOND FACE OF BASE

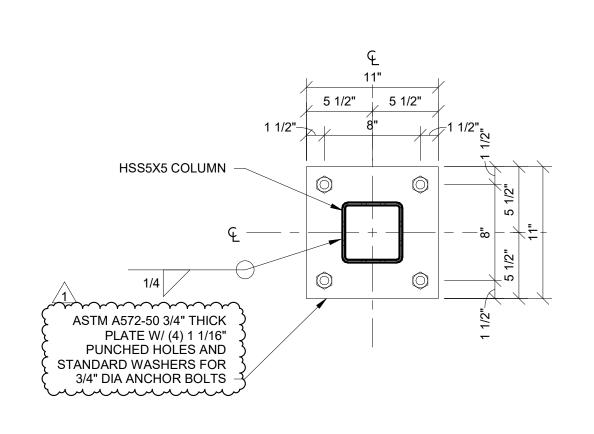
PLATE. "T"=1 1/2" FOR ANCHOR

COLUMN BASE PLATE

BOLT Ø UP TO 1"

2 BEAM TO BEAM CONNECTION 5510 1" = 1'-0"

3 TYPICAL BEAM TO COLUMN SHEAR CONNECTION 3/4" = 1'-0"



Ø PER BASE

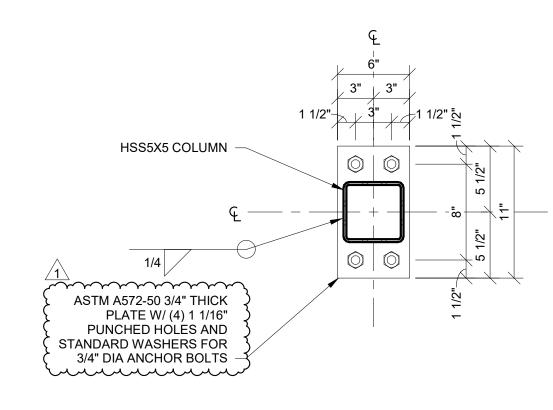
PLATE DETAIL

1 COLUMN ANCHOR BOLT DETAILS

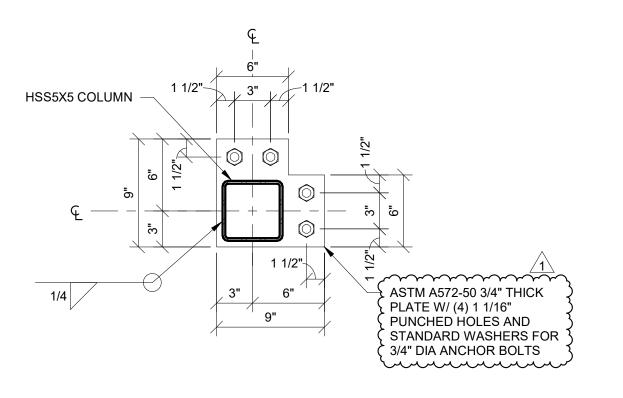
S510 3/4" = 1'-0"

TOF OR PEDESTAL

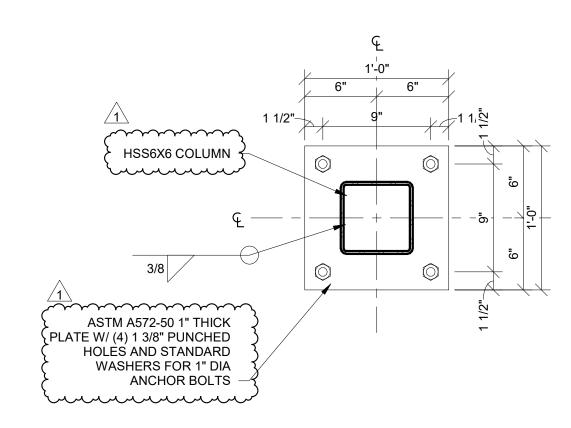
4 COLUMN BASE PLATE - BP1 1/2" = 1'-0"



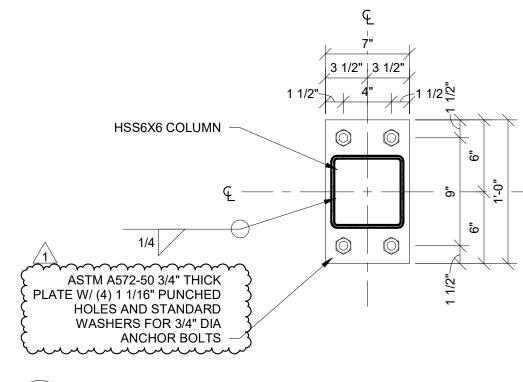
5 COLUMN BASE PLATE - BP2 \$510 1 1/2" = 1'-0"



6 COLUMN BASE PLATE - BP3
1 1/2" = 1'-0"



7 COLUMN BASE PLATE - BP4 S510 1 1/2" = 1'-0"



8 COLUMN BASE PLATE - BP5 5510 1 1/2" = 1'-0" PRINTS ISSUED

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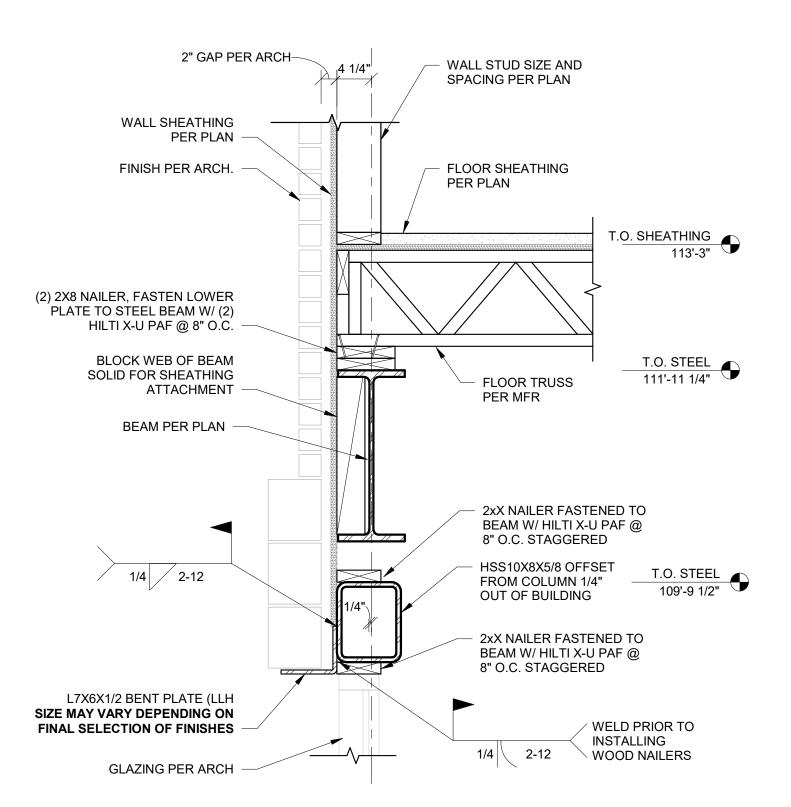
HOME2 SUITES BY HILTON 251 NE ALURA WAY LEE'S SUMMIT, MISSOURI 64064

SHEET TITLE STEEL DETAILS

PROJECT NUMBER: 2023000333

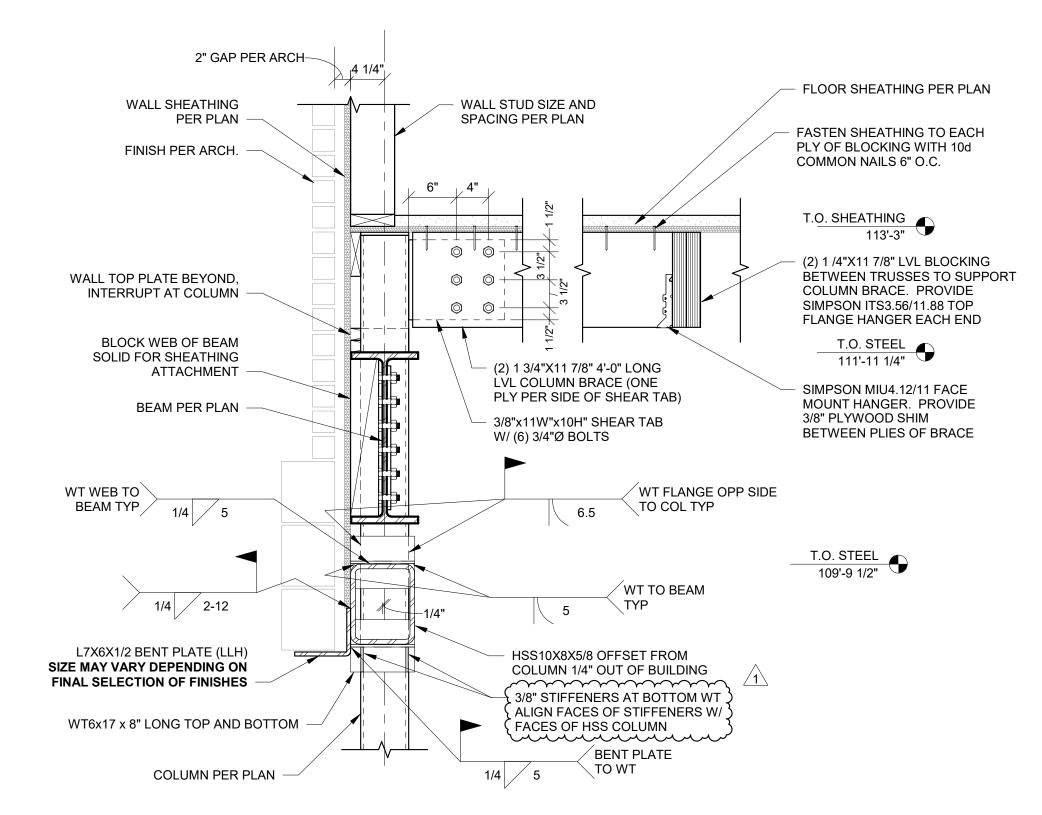
SHEET NUMBER:

S510



1A FLOOR TRUSS BEARING AT BEAM AT EXTERIOR

S511 1" = 1'-0"



1B STEEL COLUMN BRACING AT LEVEL 1
S511 1" = 1'-0"

III M°CLURE™

PRINTS ISSUED

REVISIONS:

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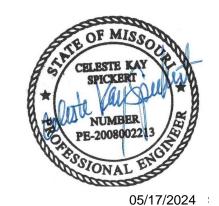
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05/17/

251 NE ALURA WAY EE'S SUMMIT, MISSOURI 64064

SHEET TITLE STEEL DETAILS

HOME2

BY HILTON

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S511

PRINTS ISSUED
04/17/2024 - CITY SUBMISSION

REVISIONS:
1 05/17/2024 CITY RESPONSE

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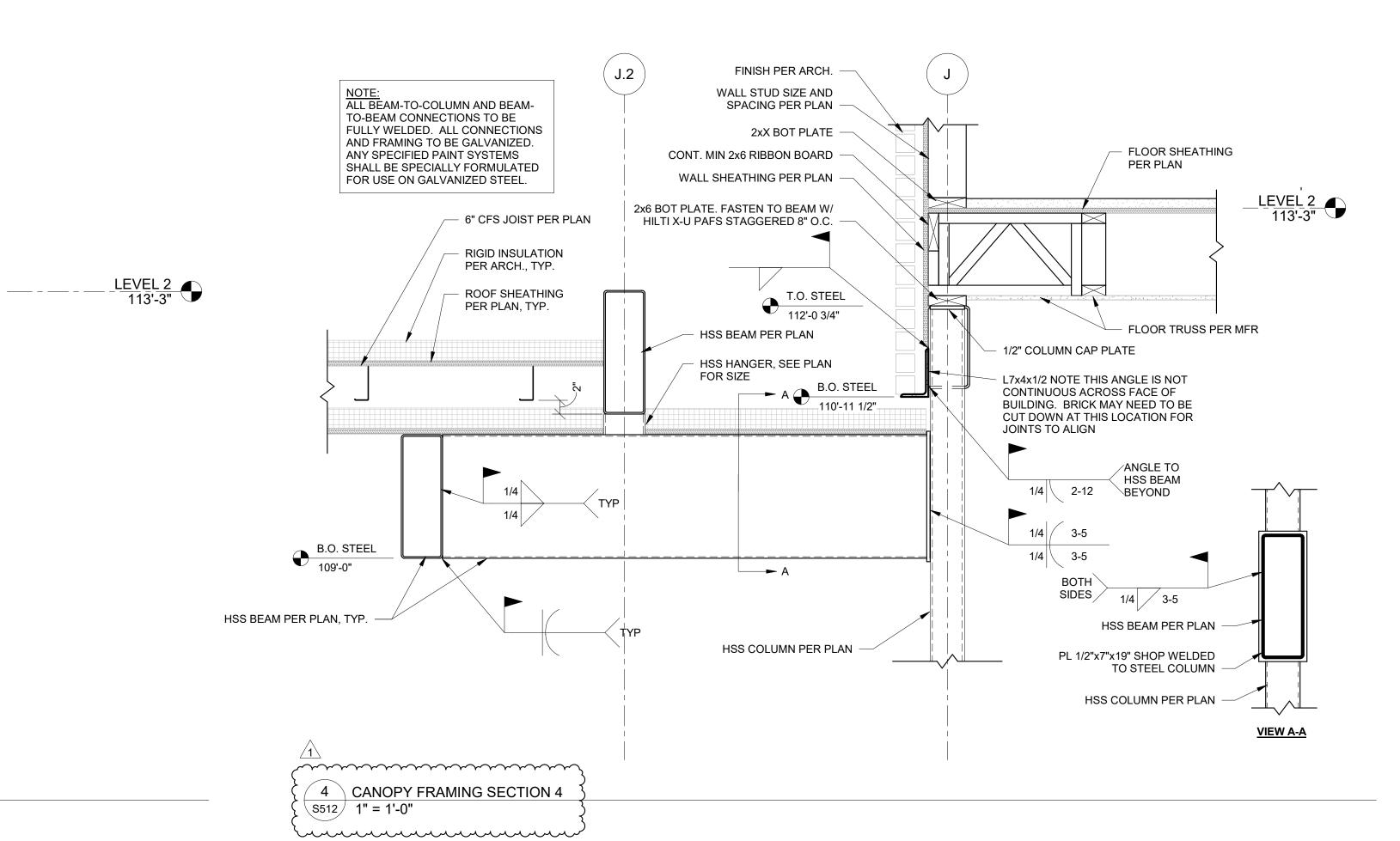
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EXPIRES: DECEMBER 31, 2024



HOME2 SUITES BY HILTON

SHEET TITLE ENTRY CANOPY SECTIONS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

S512

5/16/2024 4:32:55 PM Autodesk Docs://2023000333 - Discovery Park Lee's Summit/2023000333 - Rosemann - Home2_R23.rvt 6" CFS JOIST PER PLAN, TYP.

HSS BEAM, SEE PLAN FOR SIZE

B.O. STEEL 109'-0"

 \cdots

3 CANOPY FRAMING SECTION 3

S512 1" = 1'-0"

NOTE: ALL BEAM-TO-COLUMN AND BEAM-

FULLY WELDED. ALL CONNECTIONS

SHALL BE SPECIALLY FORMULATED

RIGID INSULATION

- ROOF SHEATHING

PER PLAN, TYP.

PER ARCH., TYP.

10" CFS JOIST PER PLAN -

AND FRAMING TO BE GALVANIZED.

ANY SPECIFIED PAINT SYSTEMS

FOR USE ON GALVANIZED STEEL.

TO-BEAM CONNECTIONS TO BE

FINISH PER ARCH.

WALL STUD SIZE AND

SPACING PER PLAN

CONT. MIN 2x6 RIBBON BOARD

WALL SHEATHING PER PLAN

2x6 BOT PLATE. FASTEN TO BEAM W/HILTI X-U PAFS STAGGERED 8" O.C.

HSS BEAM, SEE

PLAN FOR SIZE

B.O. STEEL

2xX BOT PLATE

T.O. STEEL 112'-0 3/4"

B.O. STEEL

110'-11 1/2"

- FLOOR SHEATHING

- FLOOR TRUSS PER MFR

PER PLAN

HSS BEAM, SEE PLAN FOR SIZE. ALIGN EXTERIOR FACE W/EXTERIOR FACE OF WALL

TO BE CUT DOWN AT THIS LOCATION FOR

(2) 2x6 TOP PLATE. FASTEN UPPER PLY TO

1/4 \ 2-12 \BEYOND

HSS BEAM, SEE PLAN FOR SIZE. ALIGN

2x6 NAILER, FASTEN TO BEAM W/HILTI

X-U PAFS STAGGERED 8" O.C.

EXTERIOR FACE W/EXTERIOR FACE OF WALL

2x6 BOT PLATE, FASTEN TO BEAM W/HILTI X-U PAFS STAGGERED 8" O.C.

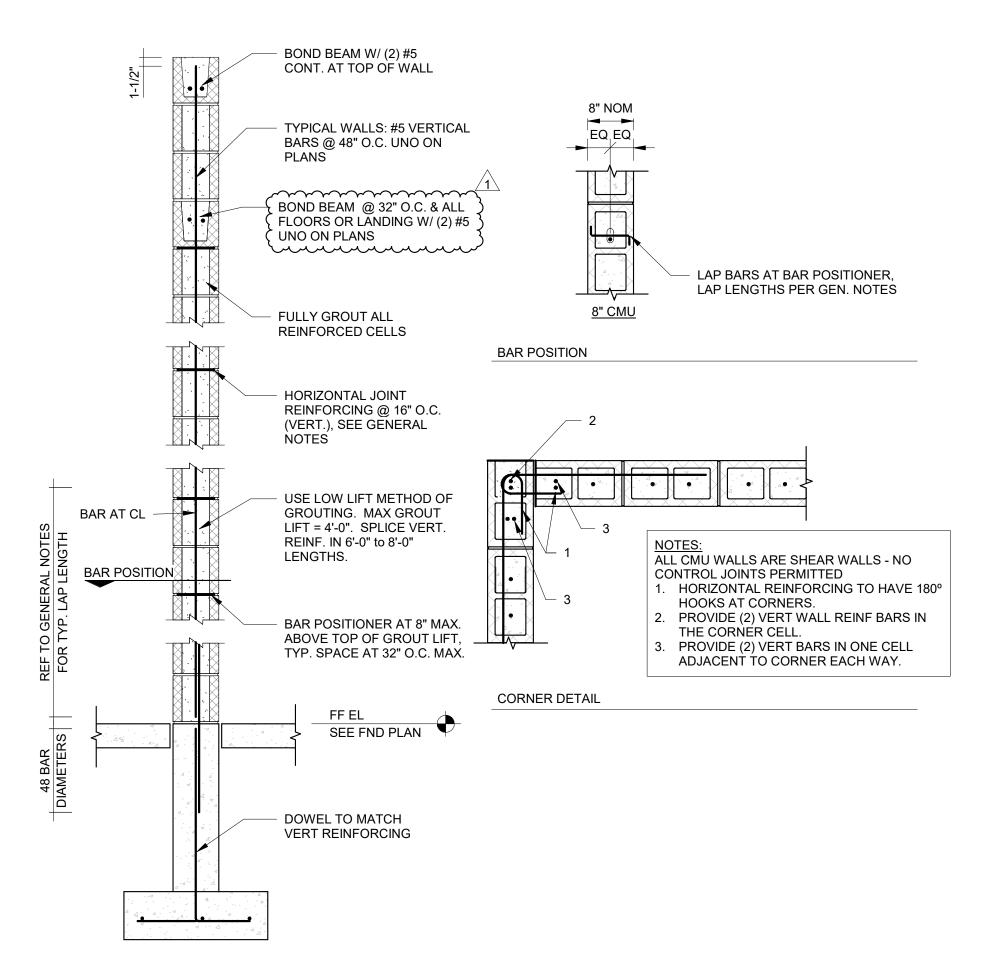
BEAM W/HILTI X-U PAFS STAGGERED 8" O.C.

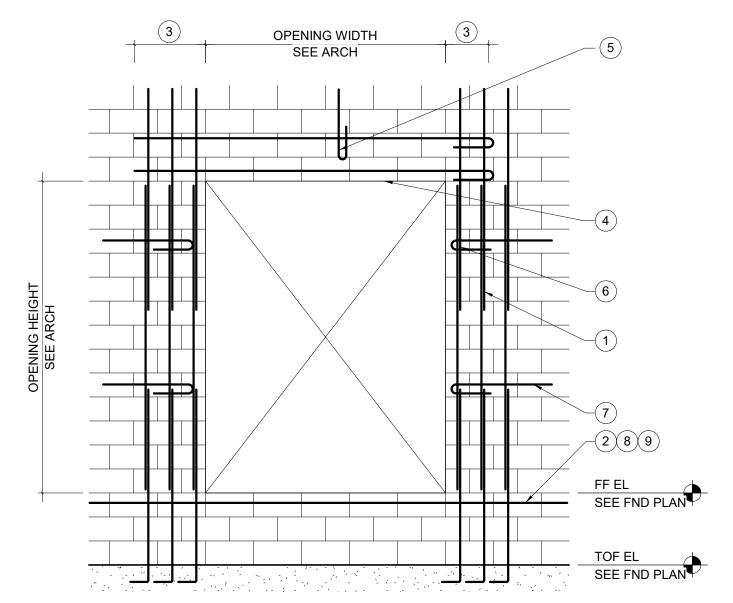
JOINTS TO ALIGN

L7x4x1/2 NOTE THIS ANGLE IS NOT CONTINUOUS

ACROSS FACE OF BUILDING. BRICK MAY NEED

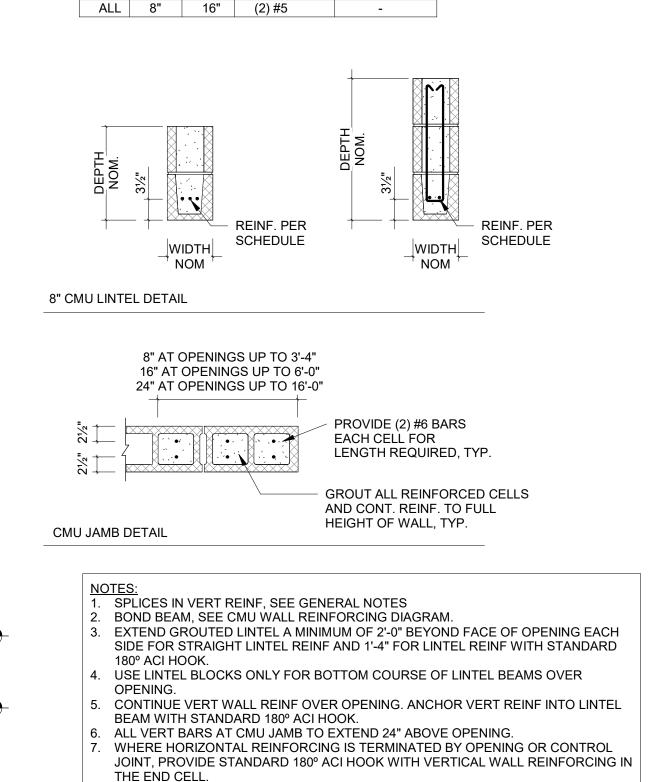
ANGLE TO HSS BEAM





2 TYPICAL MASONRY OPENING DIAGRAM & SCHEDULE

S520 3/4" = 1'-0"



PROVIDE 2-#5 AT BOTTOM OF ALL OPENINGS ABOVE FINISH FLOOR. EXTEND MINIMUM OF 2'-0" BEYOND FACE OF OPENING EACH SIDE FOR STRAIGHT REINFORCING AND 1'-4" FOR HOOKED REINFORCING WITH STANDARD 180° ACI

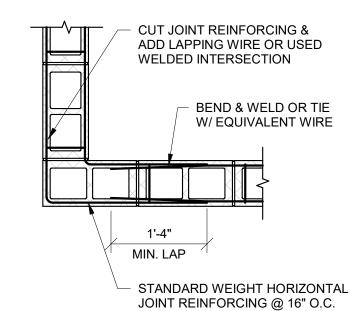
10. DO NOT OVERSIZE OPENINGS AT ELEVATORS DURING CONSTRUCTION WITHOUT

9. PROVIDE (2) #5 BAR IN BOND BEAM AT SILL LOCATIONS.

EXPLICIT PERMISSION FROM MEC

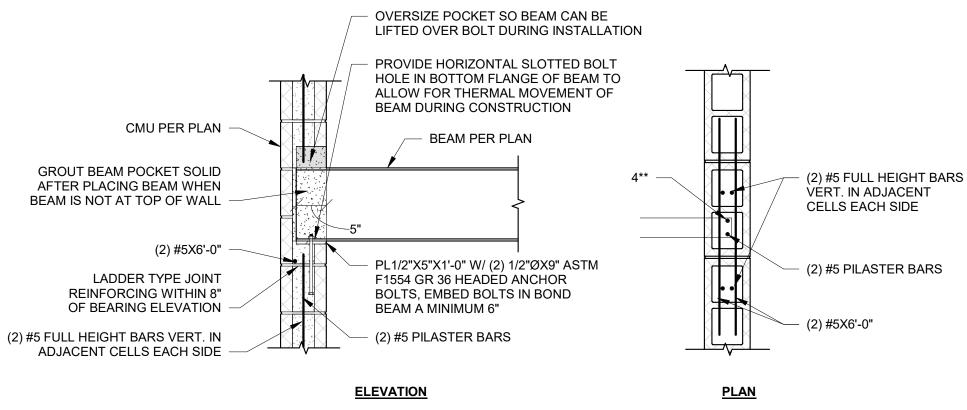
CMU LINTEL SCHEDULE

MARK | WIDTH | DEPTH | REINFORCING | STIRRUPS



3 JOINT REINFORCING AT INTERSECTION CMU WALLS S520 3/4" = 1'-0"

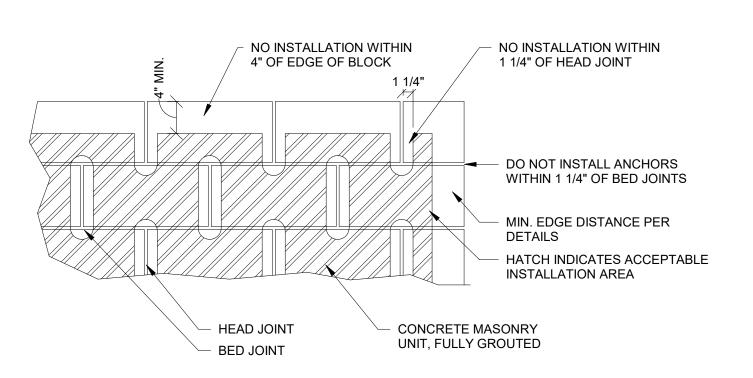
OVERSIZE POCKET SO BEAM CAN BE LIFTED OVER BOLT DURING INSTALLATION PROVIDE HORIZONTAL SLOTTED BOLT HOLE IN BOTTOM FLANGE OF BEAM TO ALLOW FOR THERMAL MOVEMENT OF BEAM DURING CONSTRUCTION CMU PER PLAN -BEAM PER PLAN





1 CMU WALL REINFORCING DIAGRAM

S520 3/4" = 1'-0"



5 \ ACCEPTABLE LOCATIONS FOR ANCHORS IN MASONRY \S520 / 1" = 1'-0"

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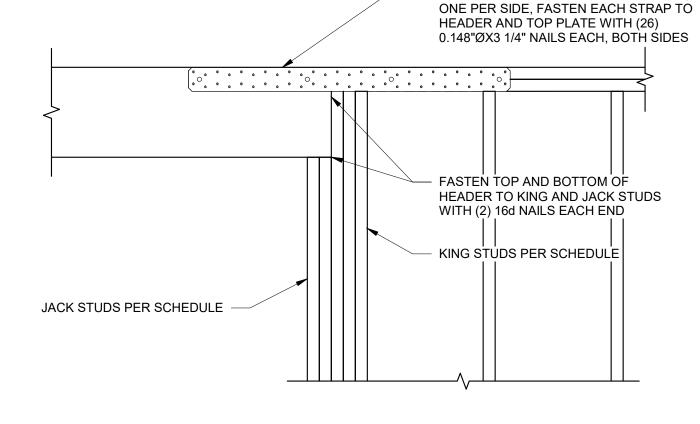
ambiguities, or conflicts contained within

B HOME2

SHEET TITLE MASONRY DETAILS

PROJECT NUMBER: 2023000333

SHEET NUMBER:



(8) 16d BOX NAILS EACH SIDE OF THE JOINT, TYP.

4'-0" MIN.

SECTION

4'-0" MIN.

ELEVATION

0 0 0 0 0 0

(8) 16d BOX NAILS EACH

SIDE OF THE JOINT, TYP.

WHERE HEADER INTERRUPTS SILL PLATE,

PROVIDE SIMPSON MSTC40 STRAPTIES,

6 FRAMING AT OPENING - RAISED HEADER

(2) LINES OF FASTENERS REQUIRED

AS NOTED ON PLAN

SHEAR BLOCKING PANEL

SECTION

NOTE:
ALL WALL STUDS MUST ALIGN FLOOR-TO-FLOOR. TO
MAINTAIN CONTINUOUS LOAD PATH PROVIDE 2x SQUASH BLOCKS WHERE TRUSSES DO NOT ALIGN WITH STUDS TRUSS RIBBON BOARD 2xX SQUASH BLOCKS WHERE WALL STUDS DO NOT ALIGN WITH TRUSSES (2) 2xX TOP PLATE WALL STUD SIZE AND SPACING PER PLAN

8 SHEAR BLOCKING PANEL OPTIONS AT SHEAR WALLS

| S531 | 1" = 1'-0"

ELEVATION

5 FRAMING AT OPENING

FLOOR TRUSSES

3" O.C.

7/16" OSB NAILED TO TRUSS CHORDS AND WEBS W/ 8d NAILS

STANDARD: PRE-ENGINEERED SHEAR TRUSS

COMPONENT SUPPLIED BY

TRUSS MFR. TRUSS MFR. TO DESIGN PANEL FOR DRAG

SCHEDULE. ATTACH WITH (8) 0.131"x3" NAILS INTO TOP AND

1 1/2" LSL SHEAR BLOCKING

PANEL TO MATCH DEPTH OF

www....

(8) 0.131"x3" NAILS INTO TOP AND

BOTTOM PLATES

BOTTOM PLATES

OPTION 3:

FORCE PER DRAG TRUSS LOAD

S531 NTS

<u>OPTION 1</u>: I-JOIST BLOCKING PANELS TO

PROVIDE WEB STIFFENERS BELLOW WALL STUDS. ATTACH

TO JOISTS WITH (3) CLINCHED 8d NAILS EACH SIDE

(8) 0.131"x3" NAILS INTO TOP AND

<u>OPTION 2</u>: FIELD FABRICATED BLOCKING PANELS WITH 2X4 FRAMING AS

7/16" OSB NAILED TO WOOD

(8) 0.131"X3" NAILS INTO TOP

MEMBERS WITH 8d NAILS

SPACED AT 3" O.C.

AND BOTTOM PLATES

MATCH DEPTH OF TRUSS. TJI

360 OR EQUIVALENT.

BOTTOM PLATES

SHOWN

ADJOINING PANEL EDGE FASTENER EDGE OF SPACING FRAMING BELOW (2) LINES OF FASTENERS REQUIRED AS NOTED ON PLAN -

9 MULTIPLE LINE DIAPHRAGM EDGE FASTENING NTS

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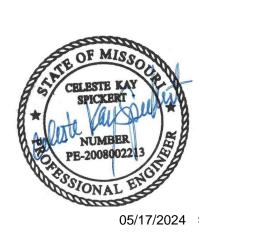
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NO. E-2006023253

EXPIRES: DECEMBER 31, 2024



HILTON

B

SUITES

HOME2

EDGE OF

ADJOINING

PANEL EDGE

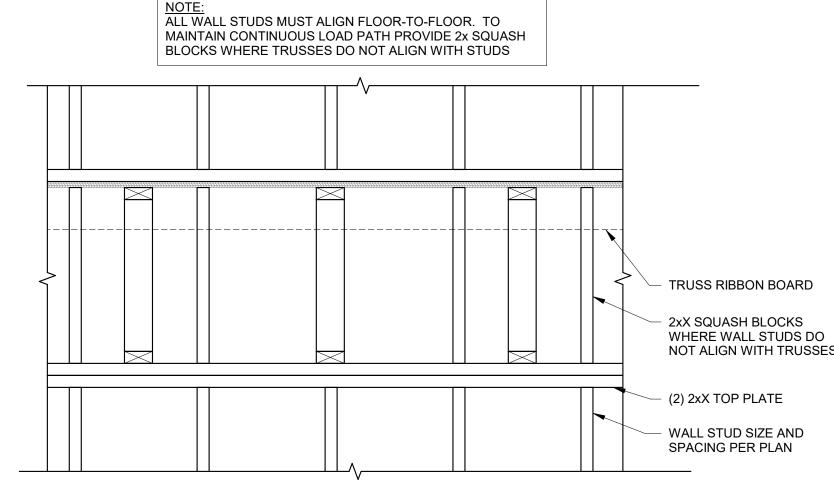
FRAMING BELOW

251 NE SUMMI

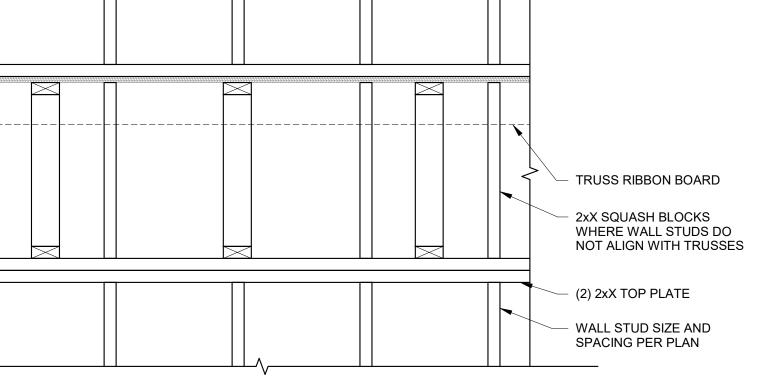
SHEET TITLE TYPICAL WOOD DETAILS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

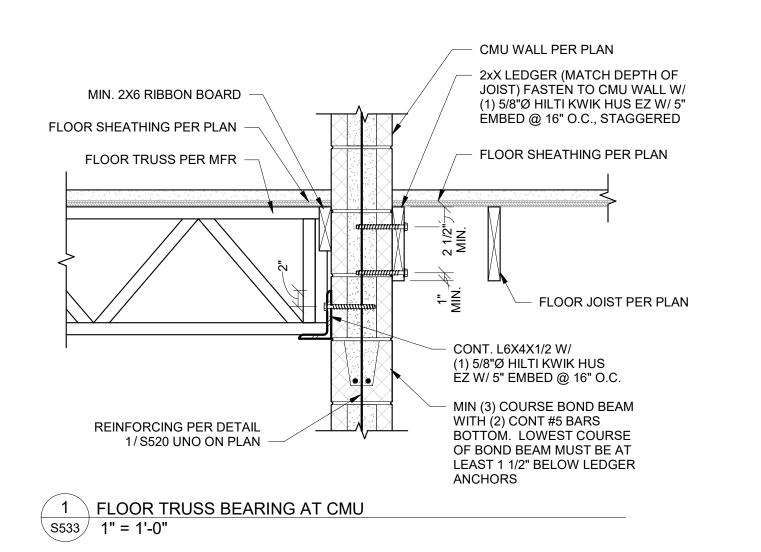


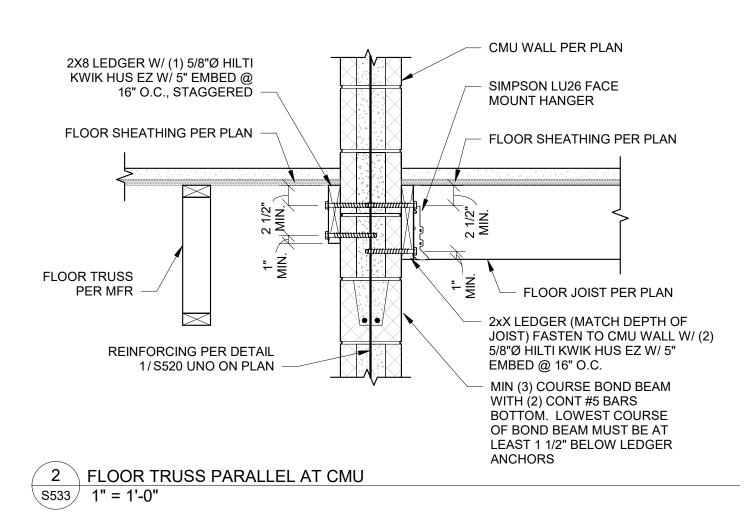
4 TYPICAL HEADER CONNECTION AT SHEAR WALLS
NTS

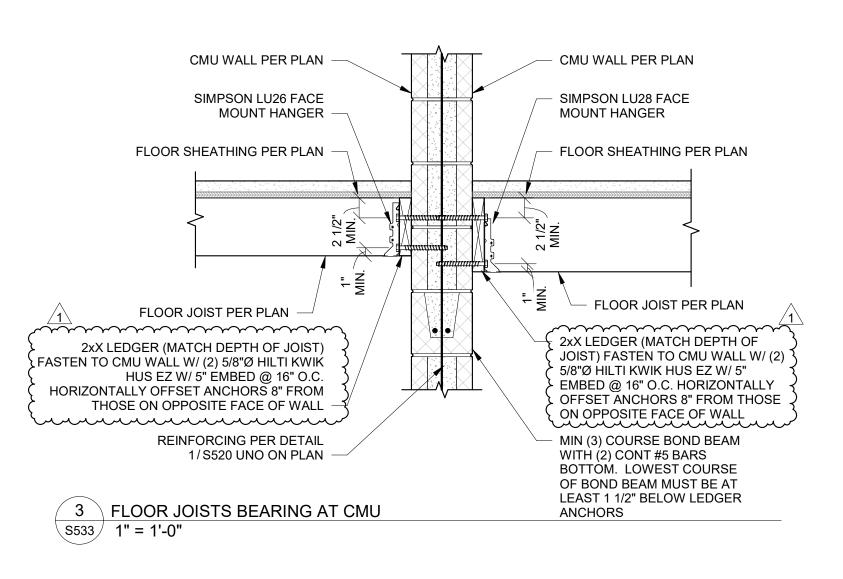


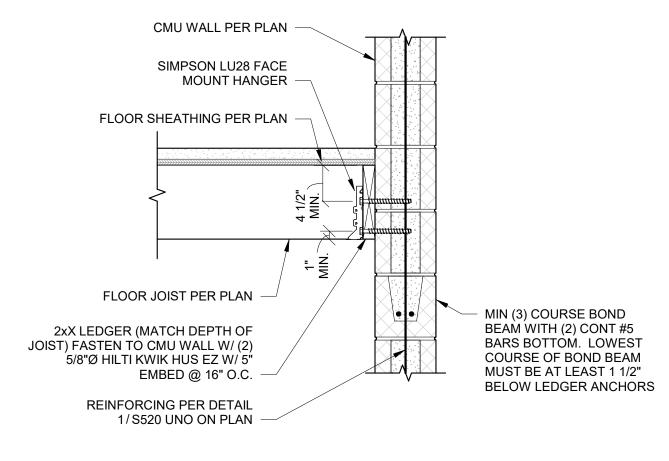














2xX LEDGER (MATCH DEPTH OF

JOIST) FASTEN TO CMU WALL W/

(1) 5/8 Ø HILTI KWIK HUS EZ W/ 5

EMBED @ 16" O.C., STAGGERED

FLOOR SHEATHING PER PLAN

MIN (3) COURSE BOND BEAM

BOTTÒM. LOWEST COURSE

OF BOND BEAM MUST BE AT

LEAST 1 1/2" BELOW LEDGER

WITH (2) CONT #5 BARS

ANCHORS

- FLOOR JOIST PER PLAN

PRINTS ISSUED

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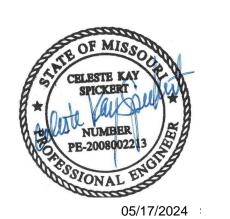
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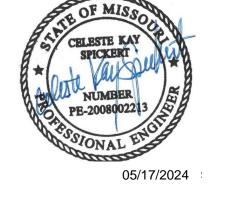
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8 FLOOR JOIST PARALLEL AT CMU W/ BRICK

√ 4

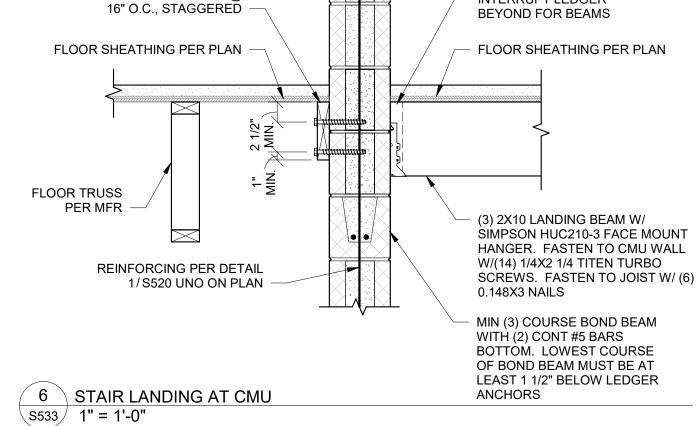
→ FLOOR JOIST BEARING AT CMU

\S533 \ 1" = 1'-0"

FINISH PER ARCH

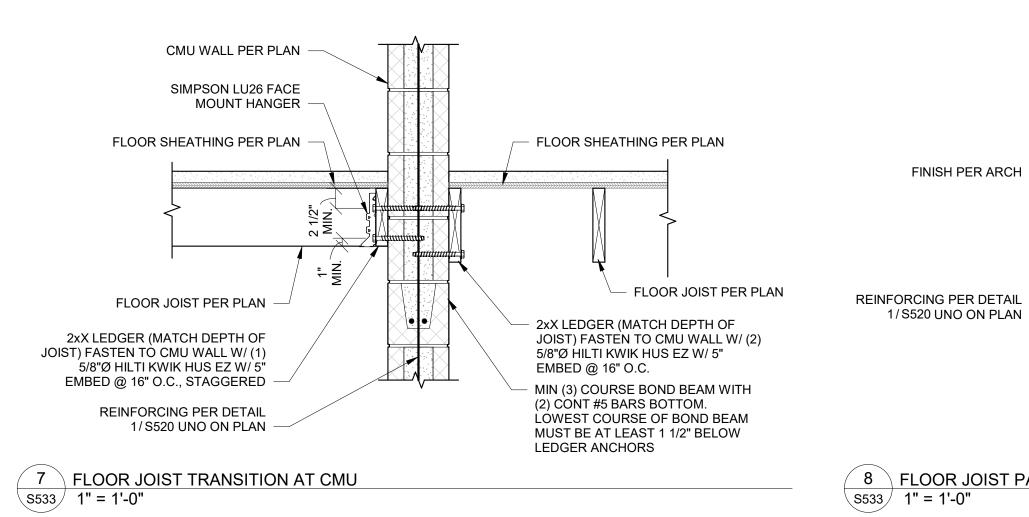
1/S520 UNO ON PLAN

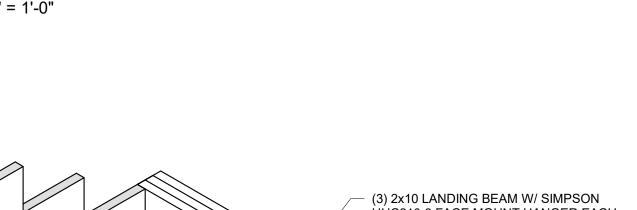
FINISH PER ARCH. — CMU WALL PER PLAN WALL STUD SIZE AND SIMPSON LU28 FACE SPACING PER PLAN MOUNT HANGER SIMPSON SCB45.5 @ EA. STUD W/ (2) SDS SCREWS FLOOR SHEATHING PER PLAN TO STUD AND (2) SIMPSON 1/4" X 1 3/4" TITEN TURBO FLOOR JOIST PER PLAN SCREW ANCHORS TO CMU. (2) 2xX PLATE SIMPSON SCB45.5 @ EA. STUD W/ (2) SDS SCREWS TO STUD AND (2) SIMPSON 1/4" X 1 3/4" TITEN TURBÓ 2xX LEDGER (MATCH DEPTH OF JOIST) SCREW ANCHORS TO CMU. FASTEN TO CMU WALL W/ (2) 5/8"Ø HILTI KWIK HUS EZ W/ 5" EMBED @ 16" O.C. SHEATHING PER WALL SCHEDULE MIN (3) COURSE BOND BEAM WITH (2) CONT #5 BARS BOTTOM. LOWEST WALL STUD SIZE AND COURSE OF BOND BEAM MUST BE AT SPACING PER PLAN LEAST 1 1/2" BELOW LEDGER ANCHORS REINFORCING PER DETAIL 1/S520 5 EXTERIOR WALL BYPASS AT CMU - BEARING

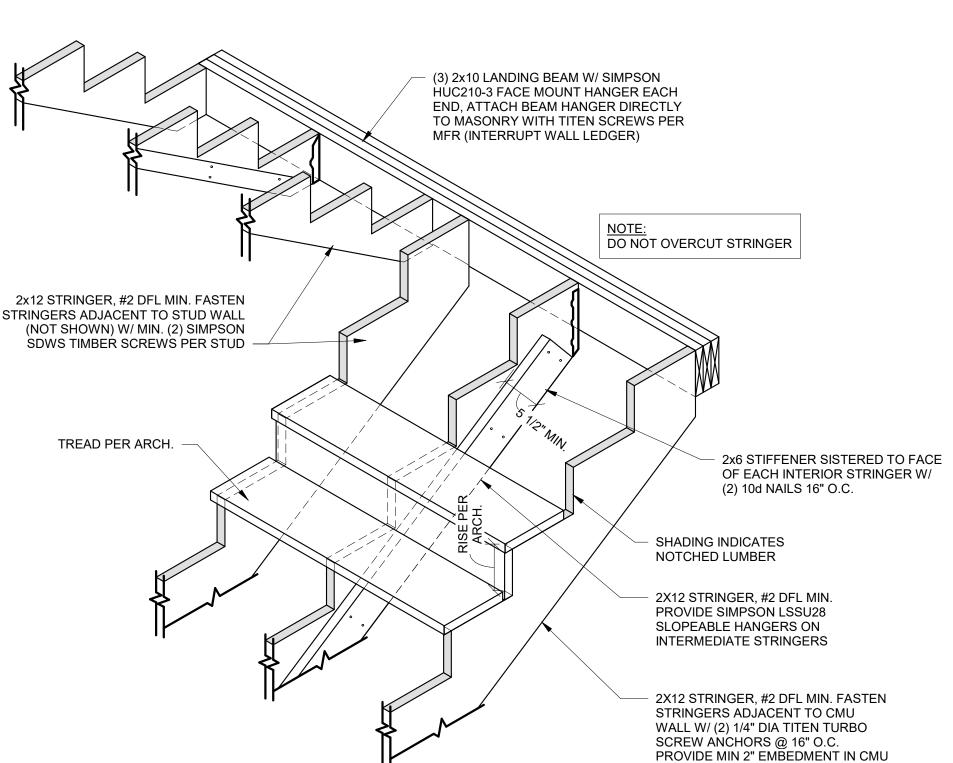


2X8 LEDGER W/ (1) 5/8"Ø HILTI

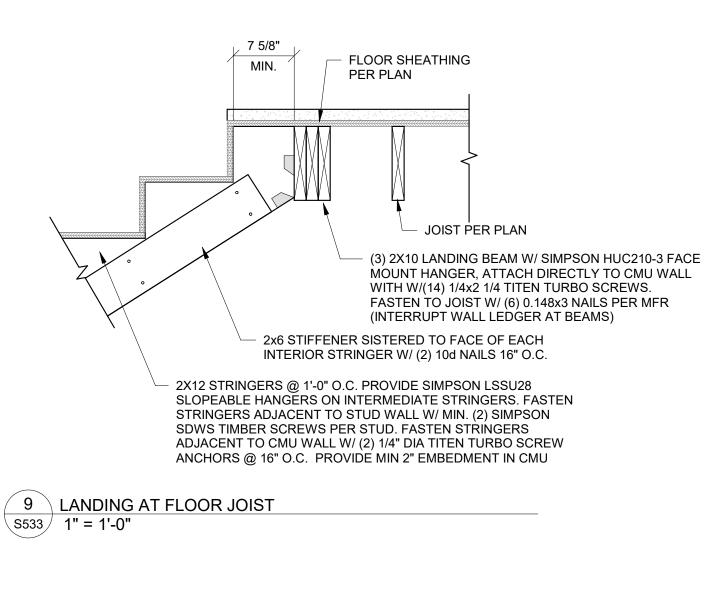
KWIK HUS EZ W/ 5" EMBED @







INTERRUPT LEDGER



10 WOOD STAIR ISOMETRIC S533 3/4" = 1'-0"

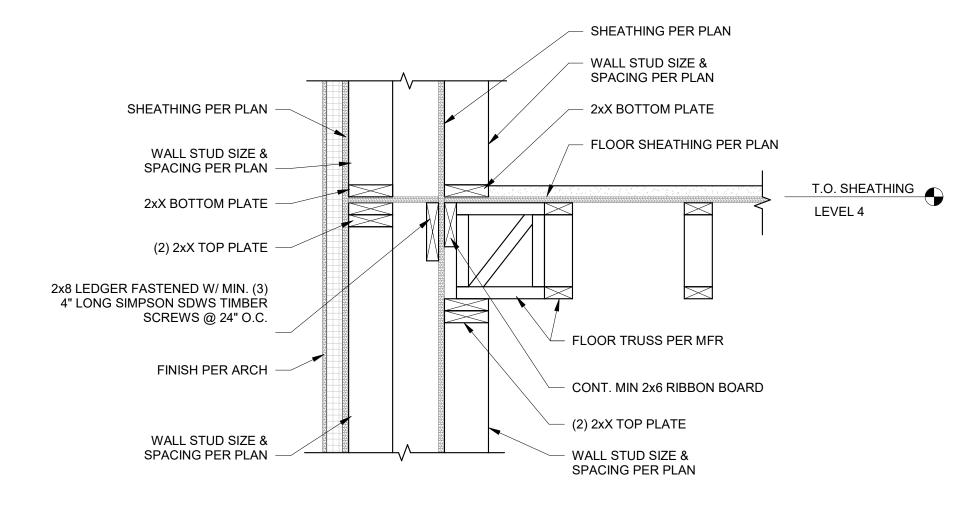
B SUITE HOME2

SHEET TITLE FLOOR FRAMING DETAILS

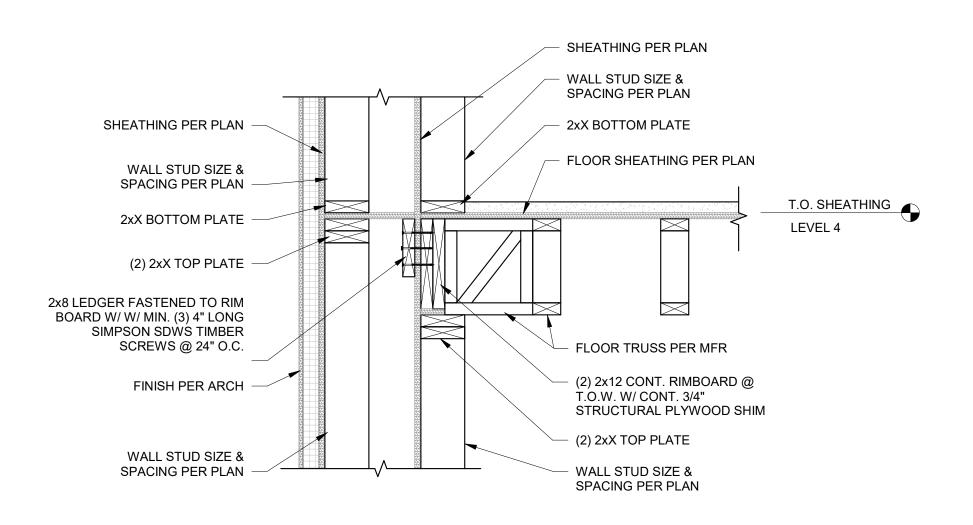
PROJECT NUMBER: 2023000333

SHEET NUMBER:

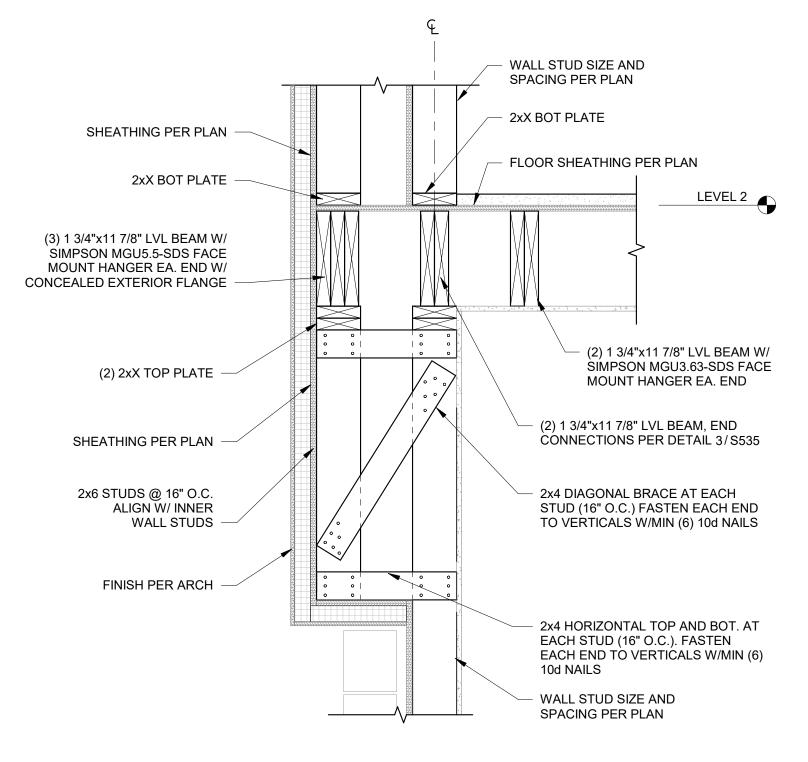
1A FRAMING AT EXTERIOR WALL OVERFRAMING - TRUSS W/ RIM BOARD - BEARING S534 1" = 1'-0"



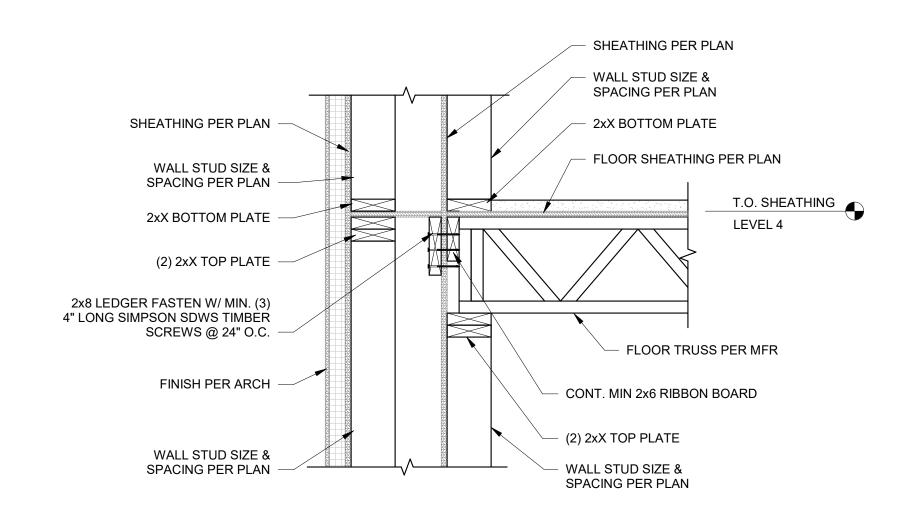
2B FRAMING AT EXTERIOR WALL OVERFRAMING - OPEN WEB TRUSS - PARALLEL 1" = 1'-0"



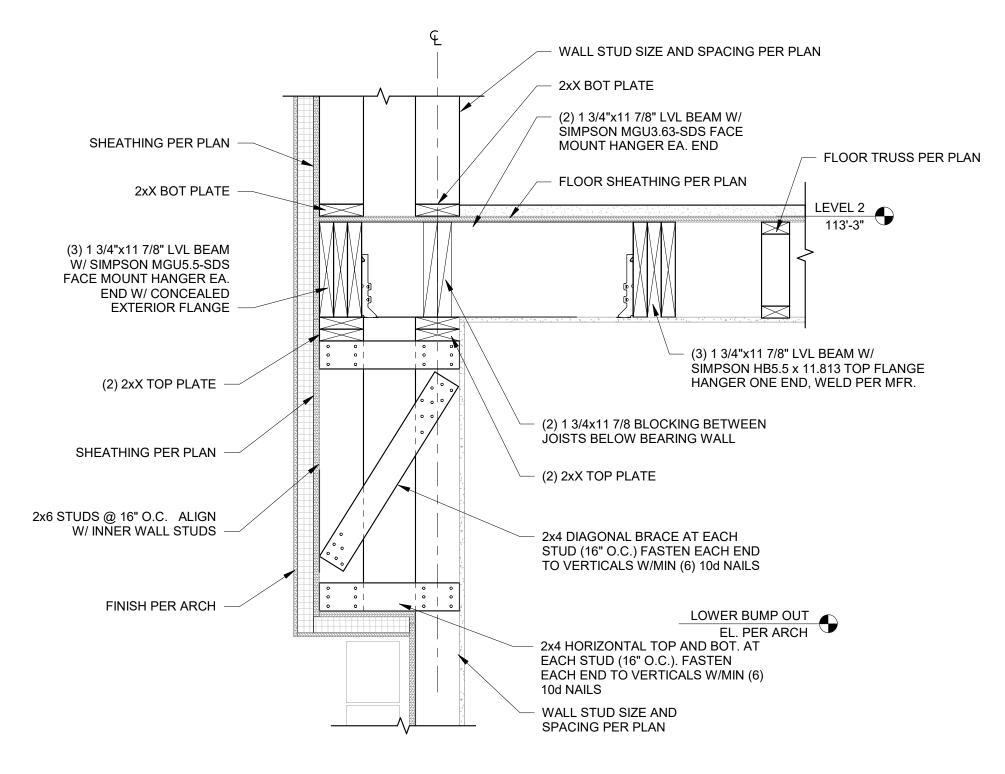
1B FRAMING AT EXTERIOR WALL OVERFRAMING - TRUSS W/ RIM BOARD - PARALLEL S534 1" = 1'-0"



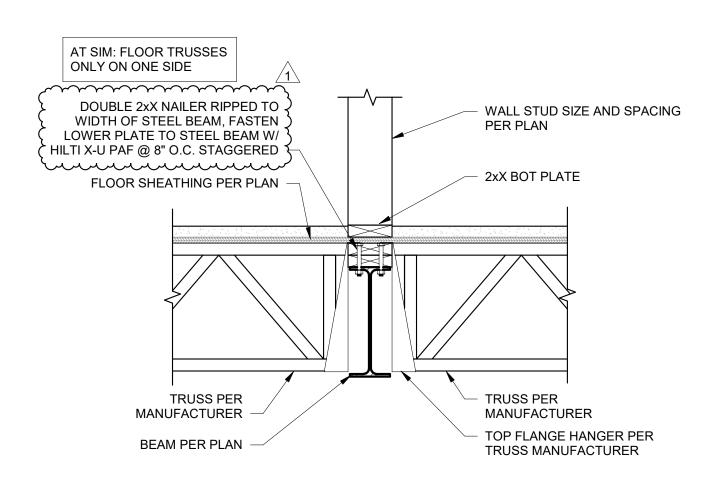
SECTION AT OVERFRAMING AT LEVEL 2

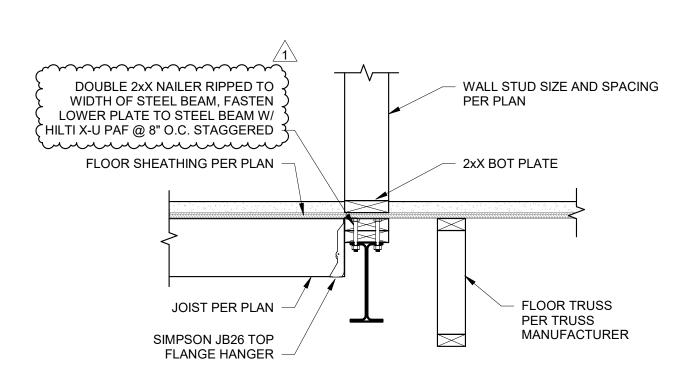


2A FRAMING AT EXTERIOR WALL OVERFRAMING - OPEN WEB TRUSS - BEARING ∖s534 / 1" = 1'-0"



4 SECTION AT OVERFRAMING AT LEVEL 2 S534 1" = 1'-0"









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EXPIRES: DECEMBER 31, 2024

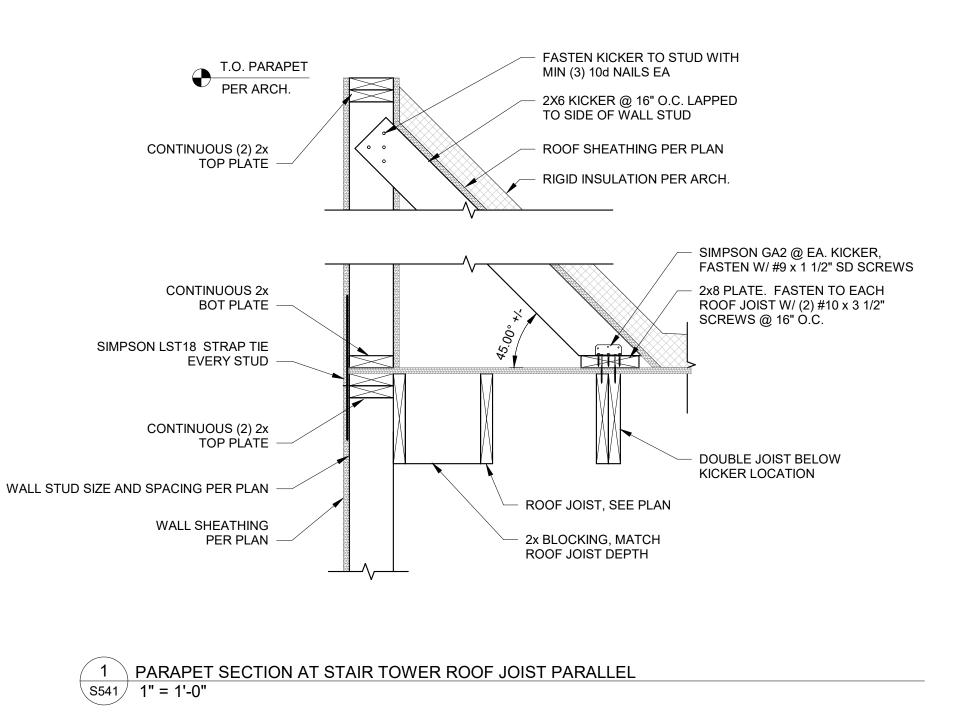


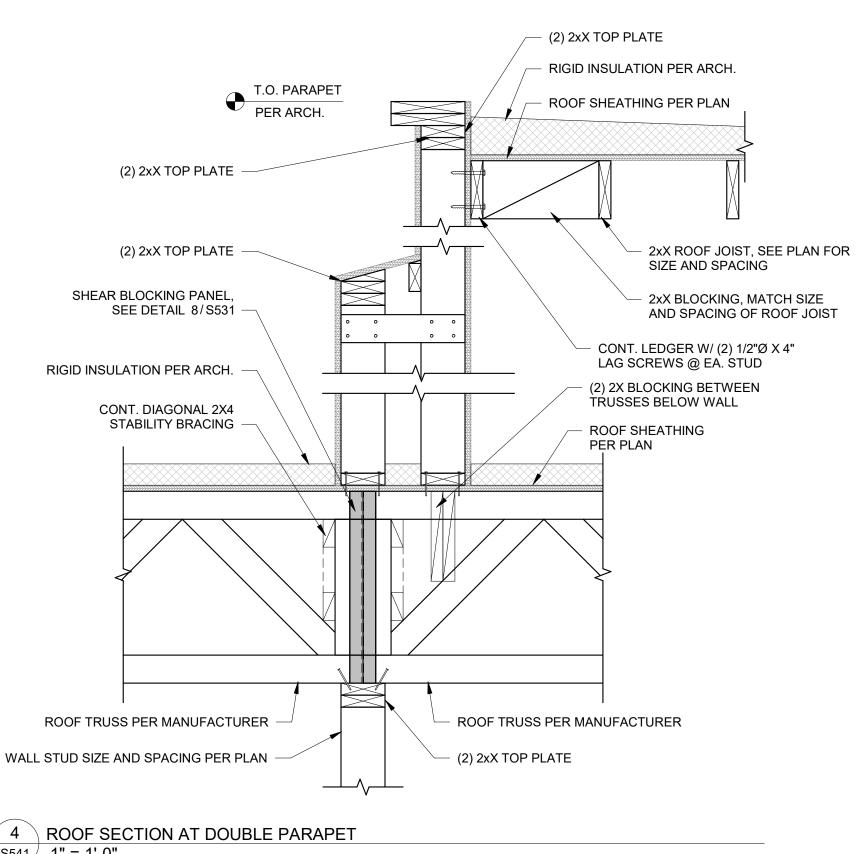
HILTON B SUITES HOME2

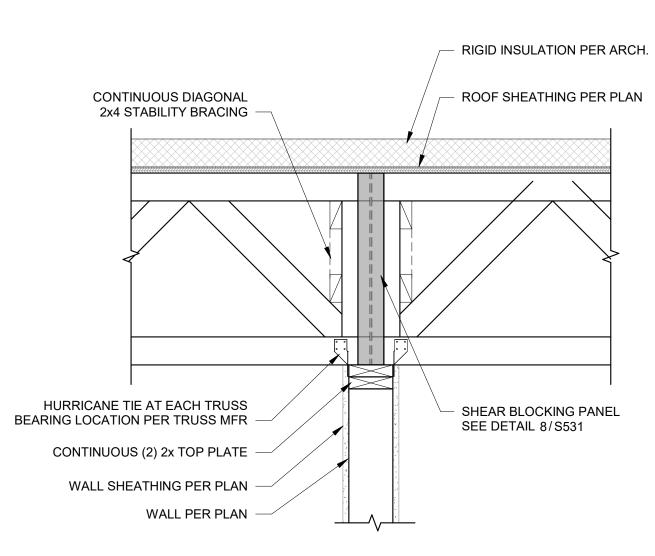
SHEET TITLE FLOOR FRAMING DETAILS

PROJECT NUMBER: 2023000333

SHEET NUMBER:



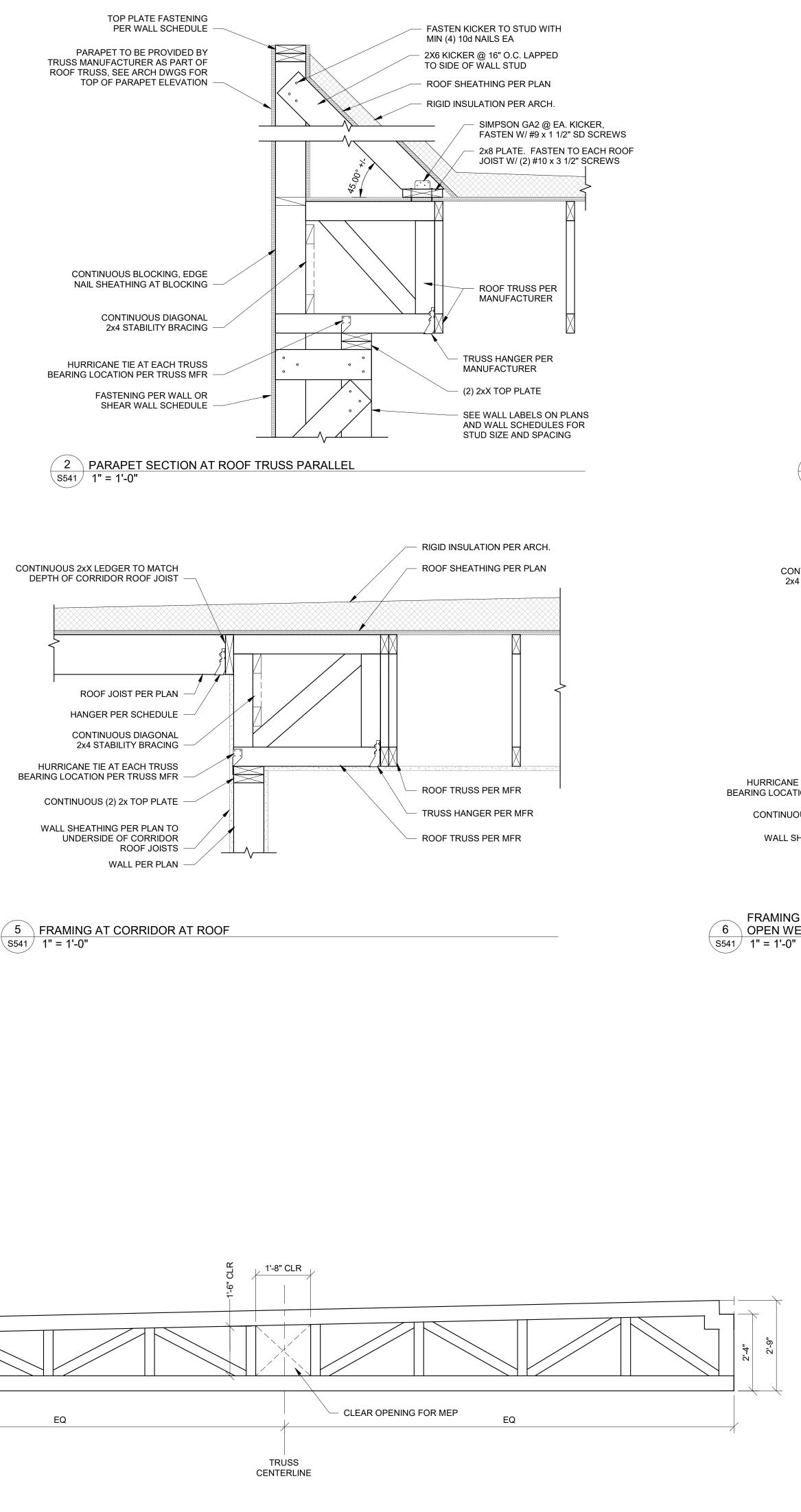


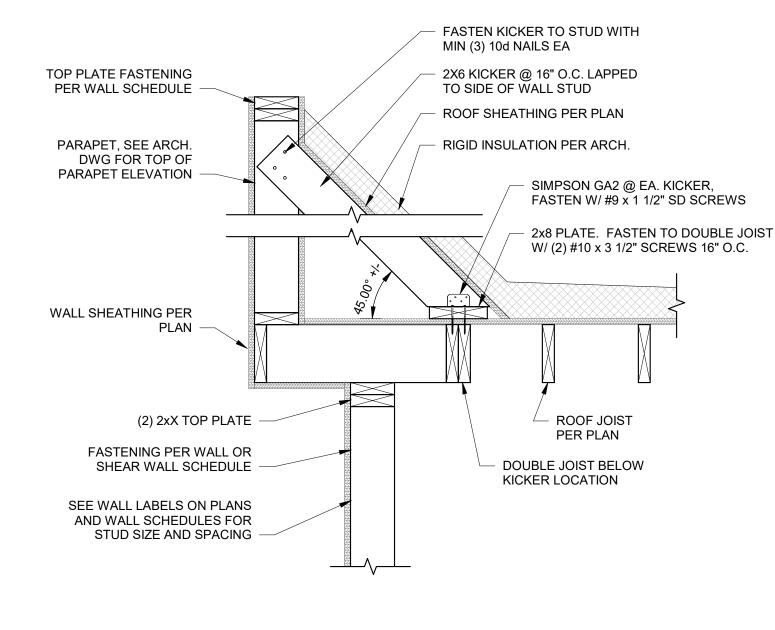


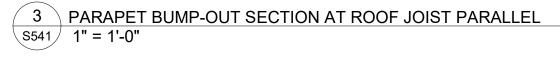
FRAMING AT INTERIOR SHEAR WALL -

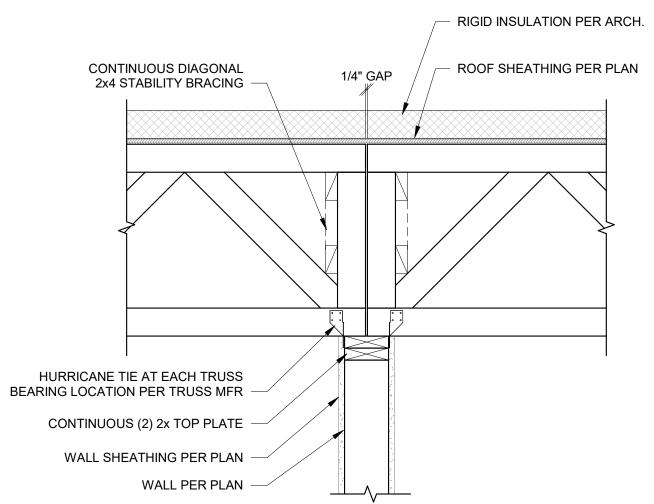
7 OPEN WEB TRUSSES AT ROOF

S541 1" = 1'-0"





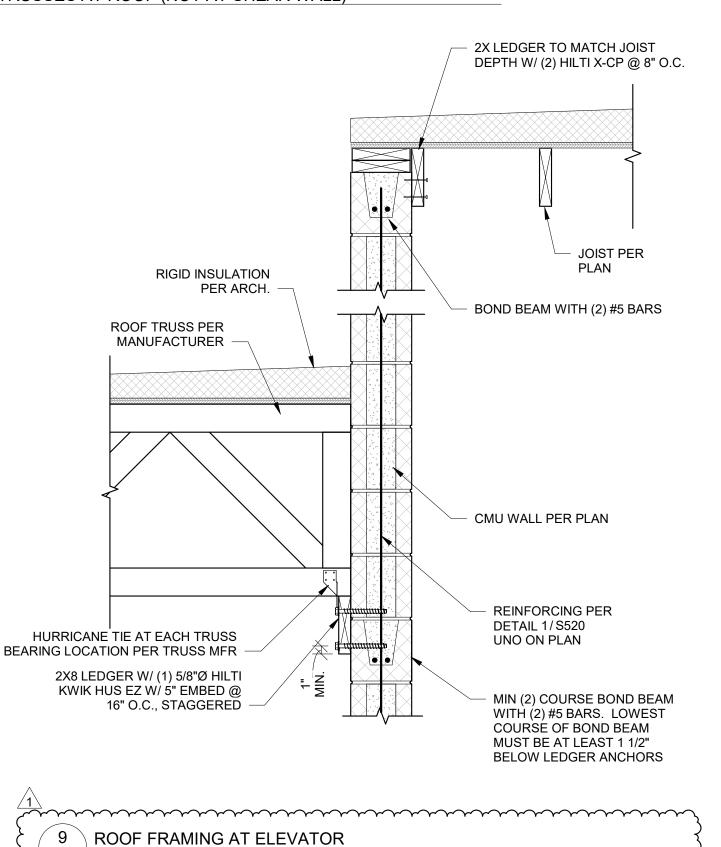




FRAMING AT INTERIOR WALL
OPEN WEB TRUSSES AT ROOF (NOT AT SHEAR WALL)

1" = 1'-0"

S541 1" = 1'-0"



 \equiv 251 NE ALURA WAY SUMMIT, MISSOURI B SUITES HOME2

SHEET TITLE **ROOF DETAILS**

PROJECT NUMBER: 2023000333

SHEET NUMBER:

8 SLOPED TRUSS PROFILE 1/2" = 1'-0"

2001 W Broadway Columbia, MO 65203

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Losses which arise from failure to obtain and/or follow the engineers' or surveyors'

guidance with respect to any alleged

errors, omissions, inconsistencies, ambiguities, or conflicts contained within

the Plans or Specifications.

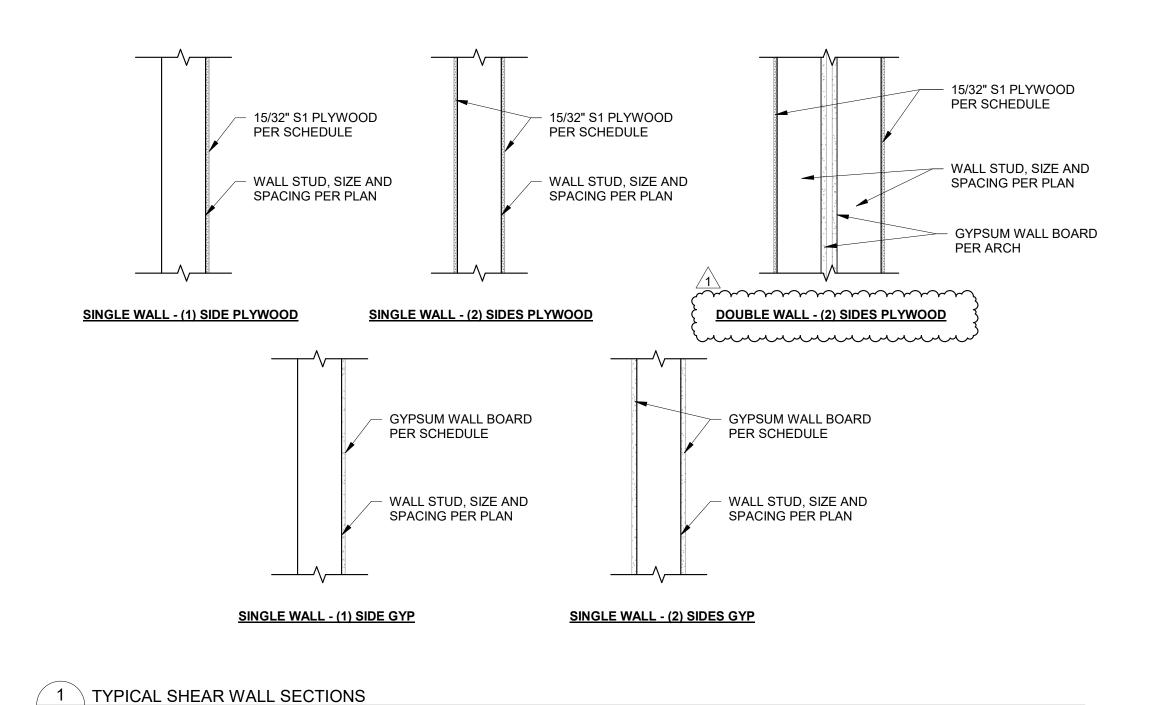
PRINTS ISSUED

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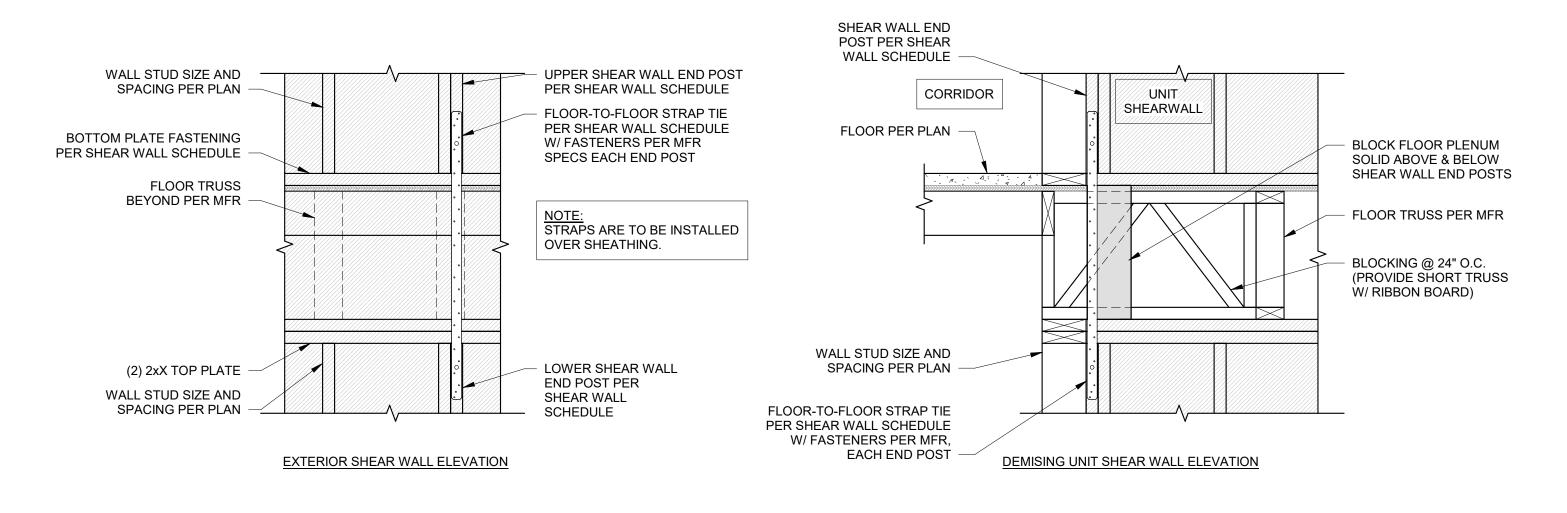


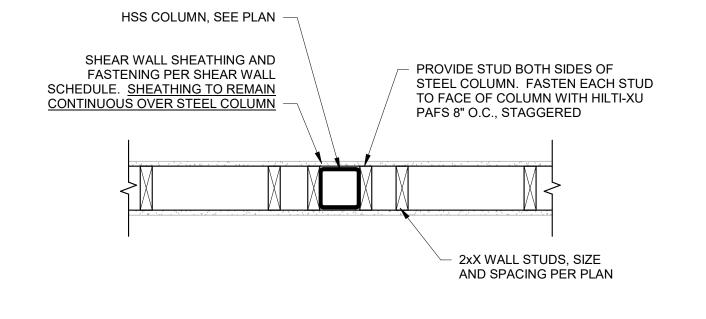
S550 1" = 1'-0"

3 FLOOR-TO-FLOOR STRAP TIE \$550 1" = 1'-0"

TOP PLATE FASTENING PER VARIES SHEAR WALL SCHEDULE WALL STUD SIZE AND SPACING PER PLAN FIELD NAILING TO BE 12" O.C., U.N.O. SOLID BLOCKING @ ALL HORIZONTAL JOINTS EDGE NAILING PER SHEAR WALL SCHEDULE SHEAR WALL END POST PER SHEAR WALL SCHEDULE HOLD DOWN PER SHEAR WALL SCHEDULE BOT PLATE FASTENING PER SHEAR WALL SCHEDULE SILL PER PLAN

2 SHEAR WALL NAILING S550 1/2" = 1'-0"





4 STEEL COLUMN IN SHEAR WALL - PLAN VIEW

S550 1" = 1'-0"

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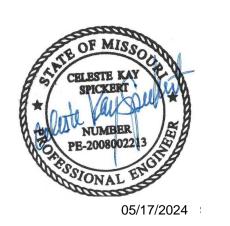
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the Plans or Specifications.

MISSOURI CERTIFICATE OF AUTHORITY
NO. E-2006023253
EXPIRES: DECEMBER 31, 2024

ambiguities, or conflicts contained within



BY HILTON RA WAY

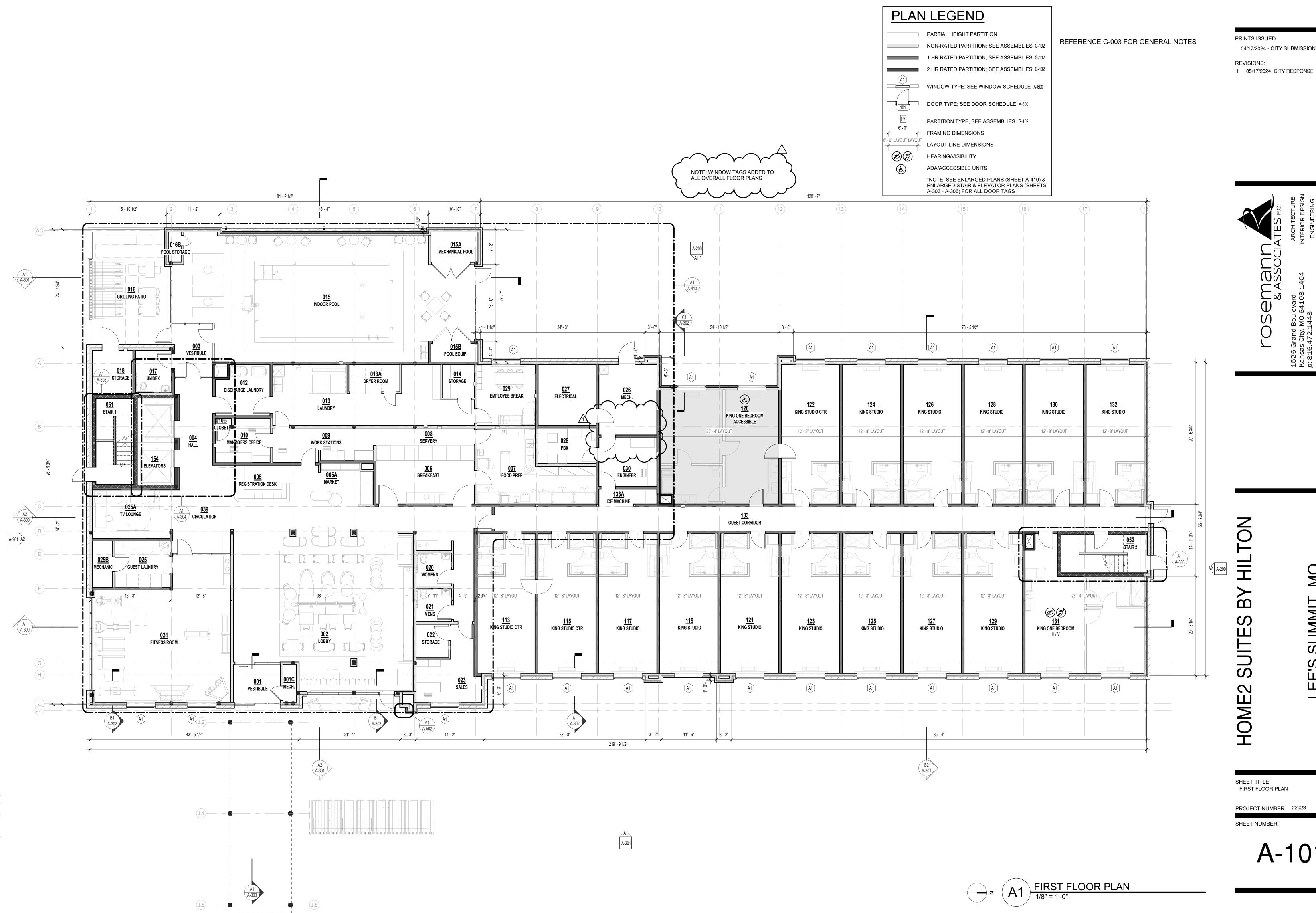
HOME2 SUITES BY
251 NE ALURA W
LEE'S SUMMIT, MISSOL

SHEET TITLE
SHEAR WALL DETAILS

PROJECT NUMBER: 2023000333

SHEET NUMBER:

3550



PRINTS ISSUED

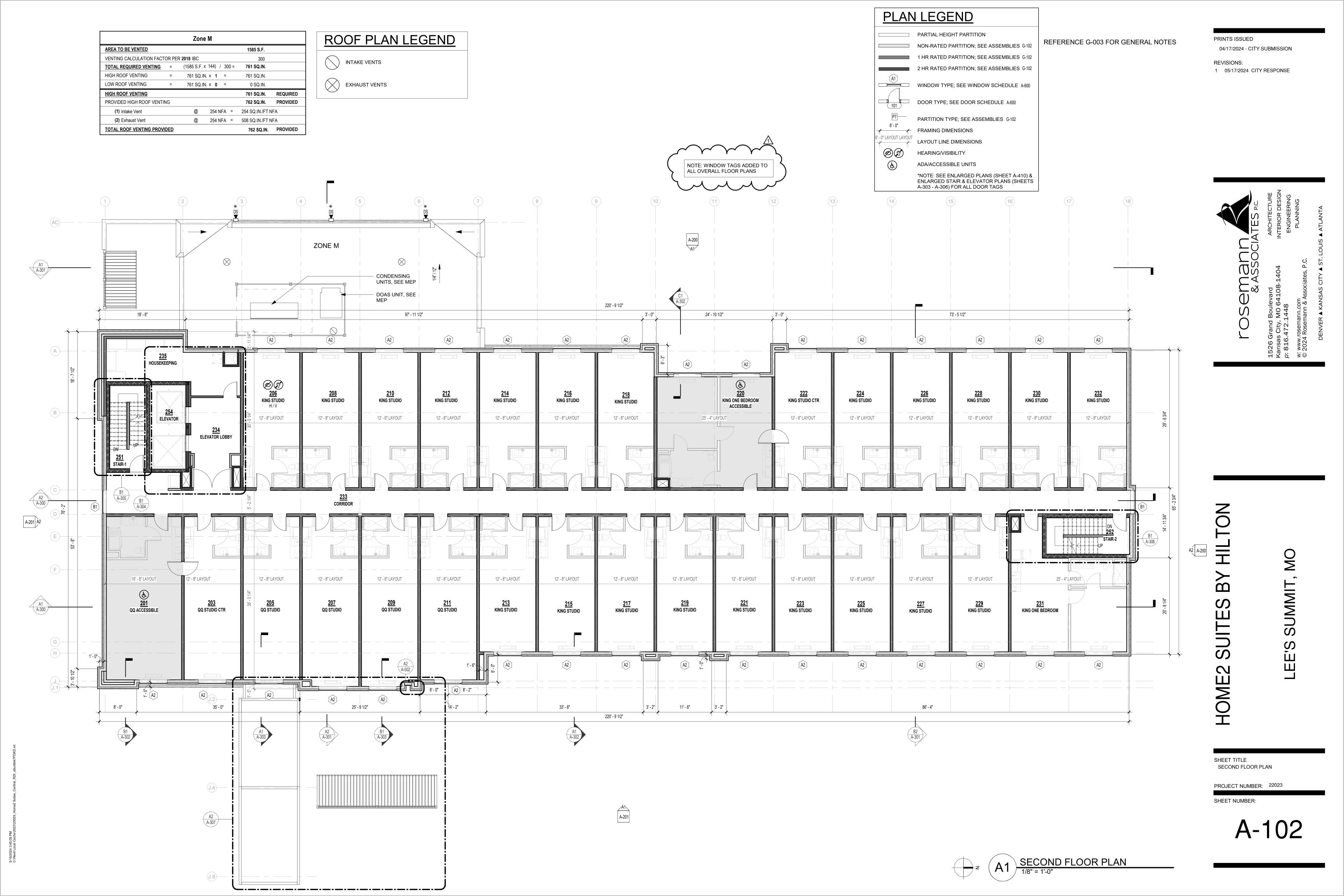
04/17/2024 - CITY SUBMISSION

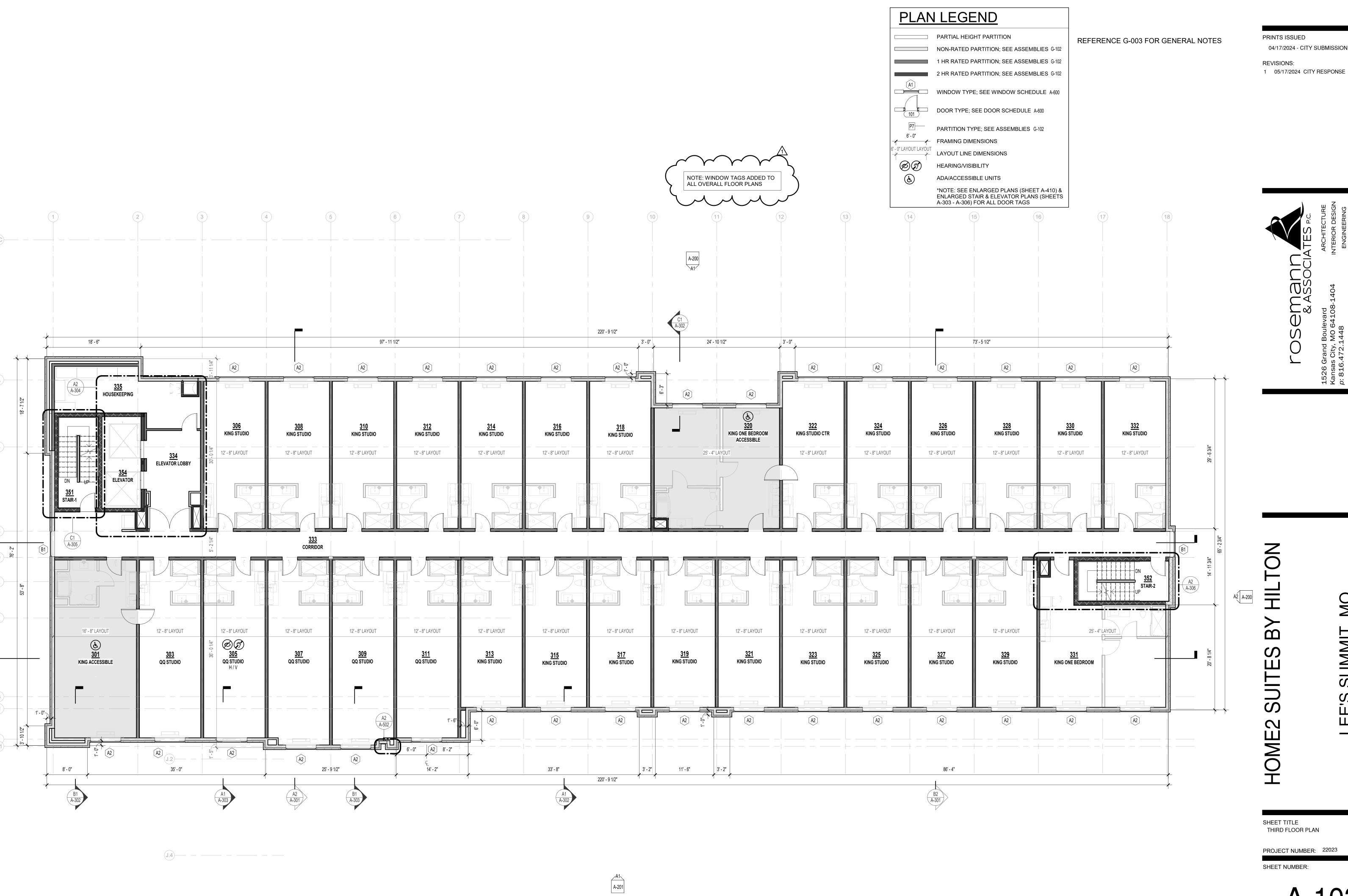
FIRST FLOOR PLAN

PROJECT NUMBER: 22023

A-101

LEE'S SUMMIT, MO





A-201 A2

A1 A-300

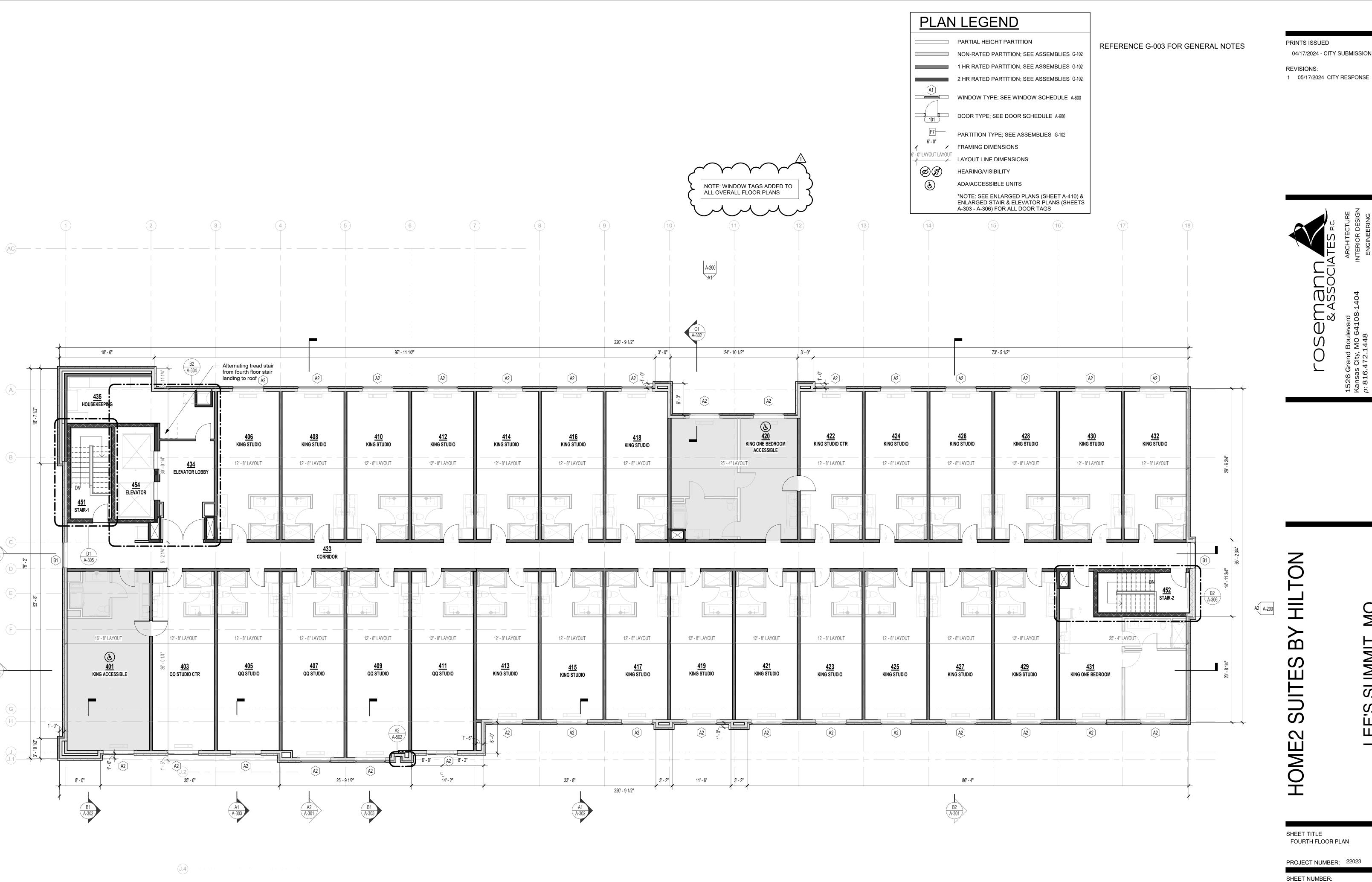
LEE'S SUMMIT, MO

04/17/2024 - CITY SUBMISSION

SHEET TITLE THIRD FLOOR PLAN

PROJECT NUMBER: 22023

SHEET NUMBER:



A1 A-201

A-201 A2

LEE'S SUMMIT, MO

04/17/2024 - CITY SUBMISSION

OSemanr & ASSOC

SHEET TITLE FOURTH FLOOR PLAN

PROJECT NUMBER: 22023

A1 FOURTH FLOOR PLAN

1/8" = 1'-0"

NOTES

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LEE'S SUMMIT, MO

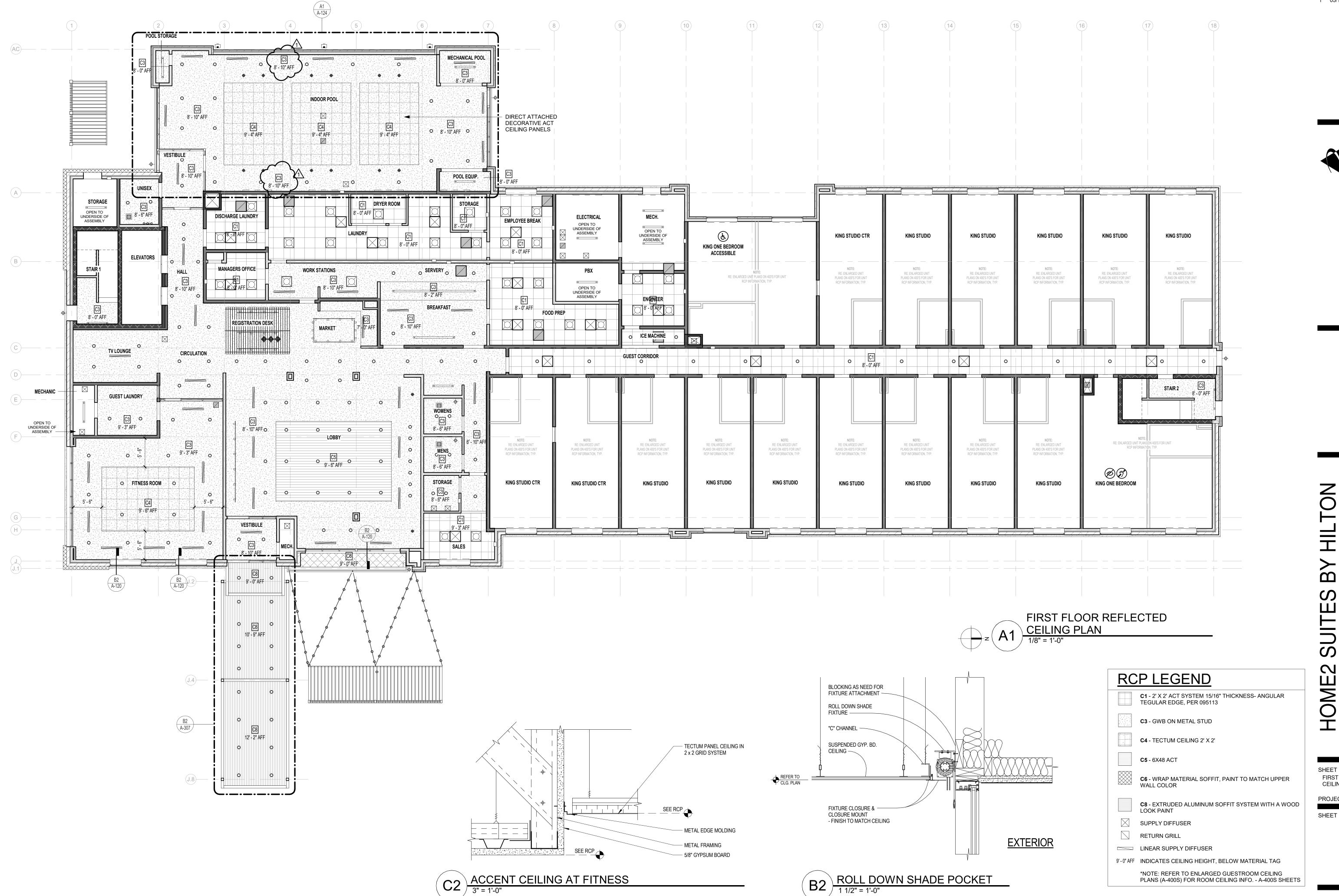
SHEET TITLE

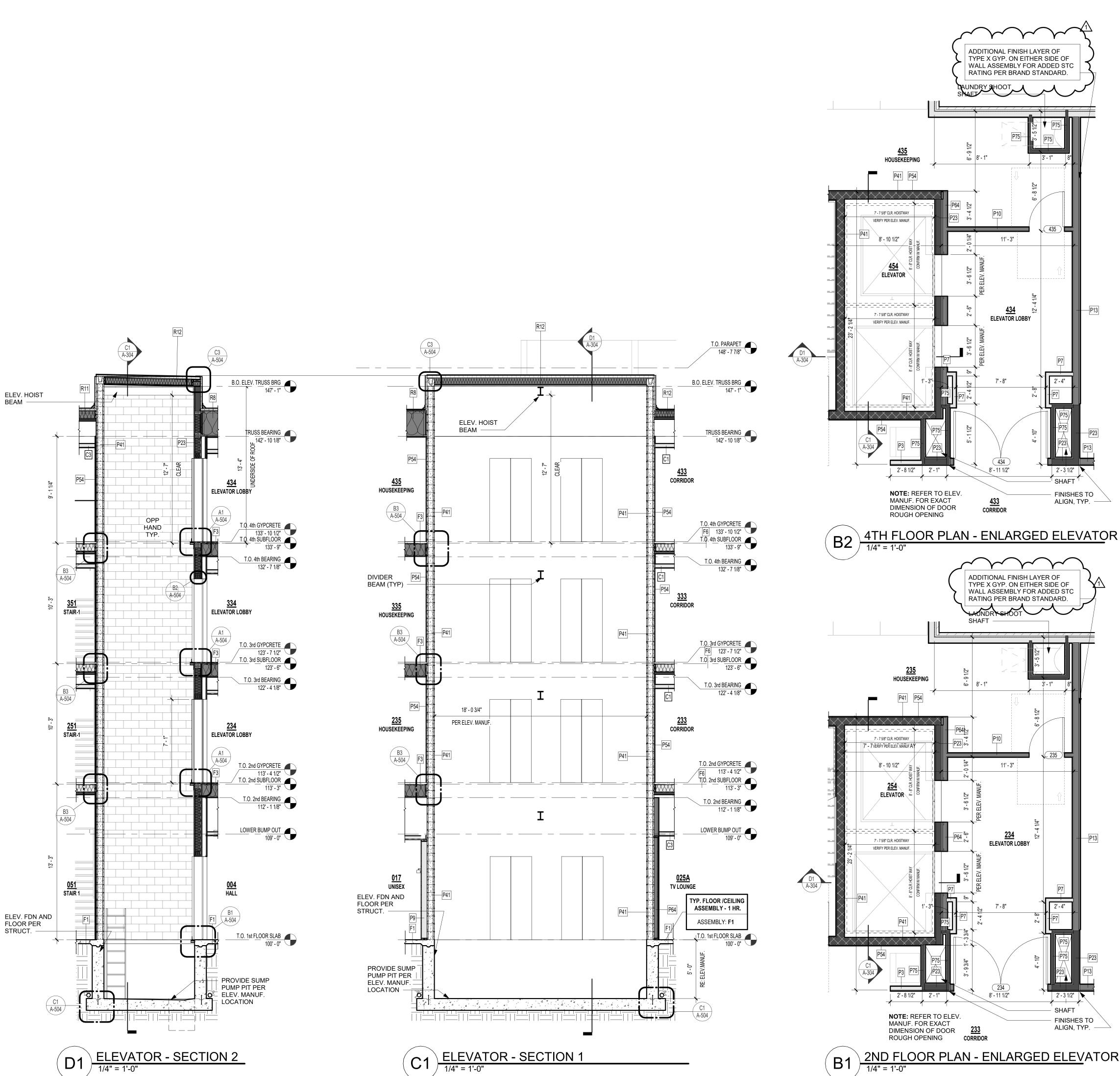
FIRST FLOOR REFLECTED CEILING PLAN

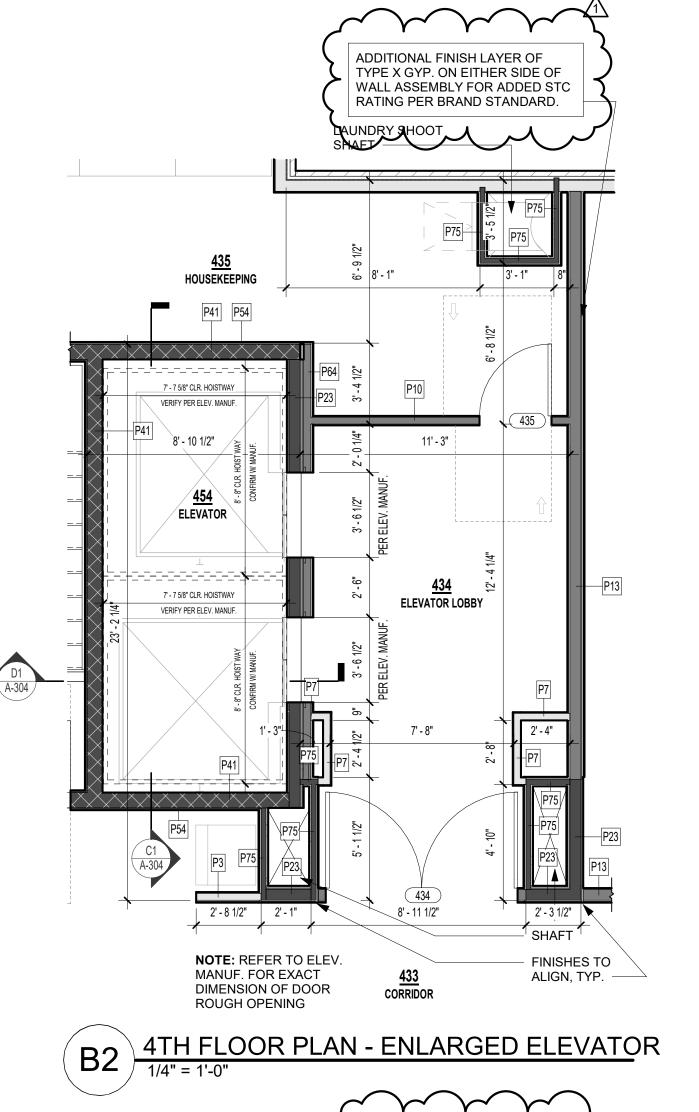
PROJECT NUMBER: 22023

PROJECT NUMBER:
SHEET NUMBER:

4-120







ADDITIONAL FINISH LAYER OF TYPE X GYP. ON EITHER SIDE OF

WALL ASSEMBLY FOR ADDED STC RATING PER BRAND STANDARD.

11' - 3"

ELEVATOR LOBBY

FINISHES TO

ALIGN, TYP. -

<u>235</u>

HOUSEKEEPING

<u>254</u>

NOTE: REFER TO ELEV.

DIMENSION OF DOOR ROUGH OPENING

MANUF. FOR EXACT

DIMENSION OF DOOR ROUGH OPENING 3RD FLOOR PLAN - ENLARGED ELEVATOR

8' - 11 1/2"

FINISHES TO

ALIGN, TYP.

REFERENCE G-003 FOR GENERAL NOTES

335 HOUSEKEEPING

7' - 7 5/8" CLR. HOISTWAY

VERIFY PER ELEV. MANUF

8' - 10 1/2"

ELEVATOR

7' - 7 5/8" CLR. HOISTWAY

VERIFY PER ELEV. MANUF

2' - 8 1/2" 2' - 1"

NOTE: REFER TO ELEV. MANUF. FOR EXACT

ADDITIONAL FINISH LAYER OF

11' - 3"

ELEVATOR LOBBY ≥

TYPE X GYP. ON EITHER SIDE OF

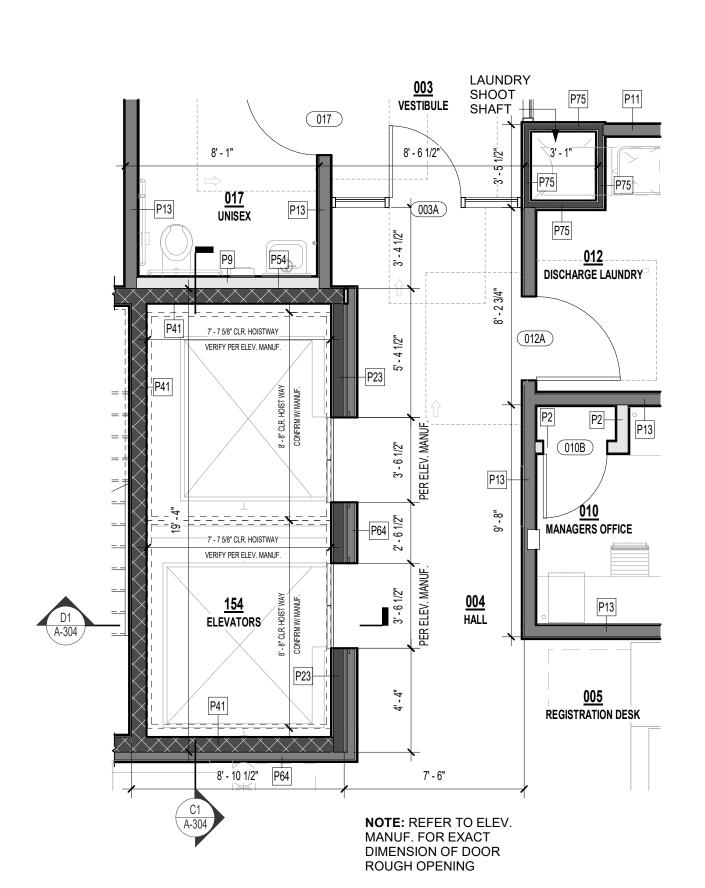
WALL ASSEMBLY FOR ADDED STC RATING PER BRAND STANDARD.

PRINTS ISSUED

REVISIONS:

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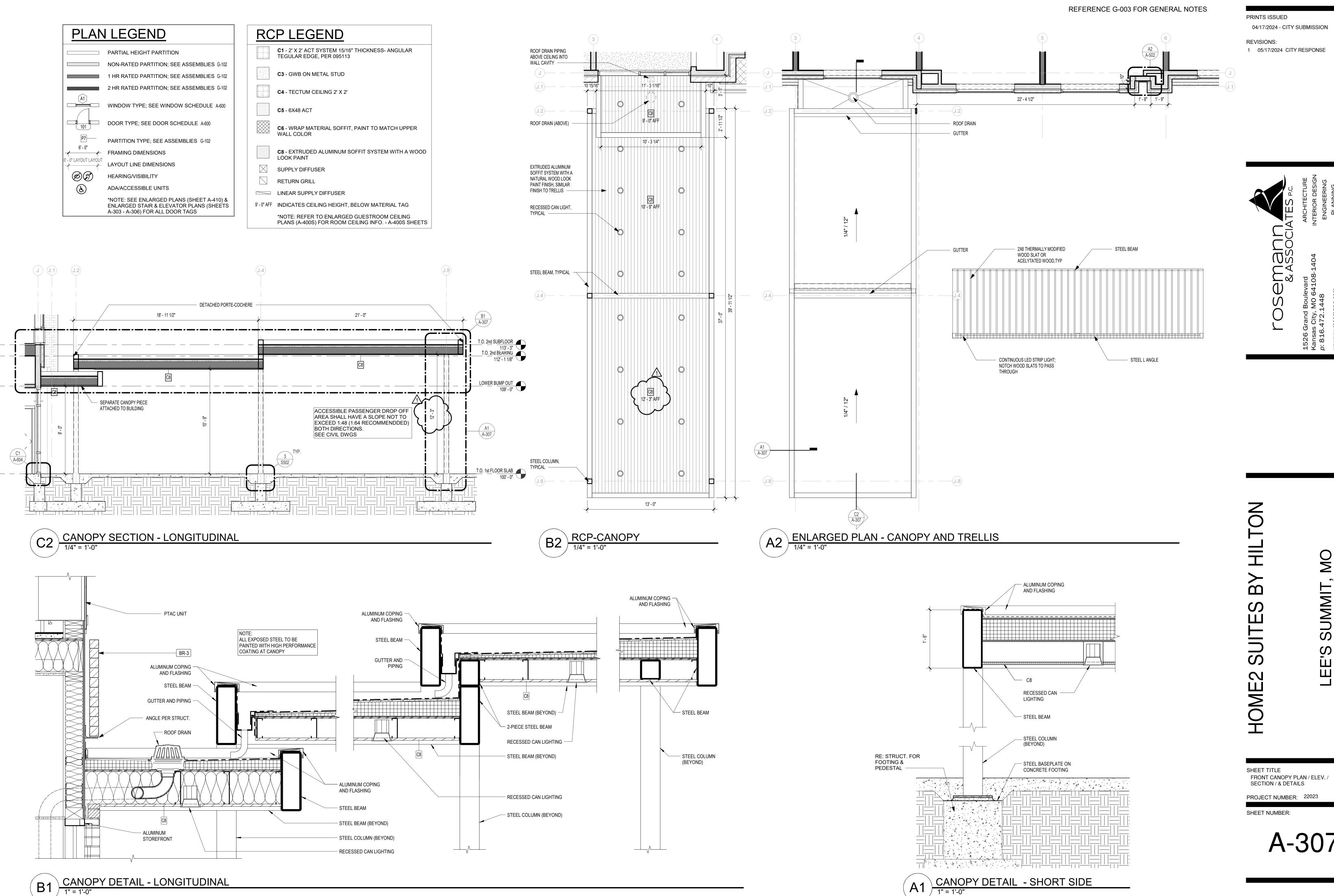
SHEET TITLE **ELEVATOR SECTIONS & DETAILS**

PROJECT NUMBER: 22023

SHEET NUMBER:

LEE'S

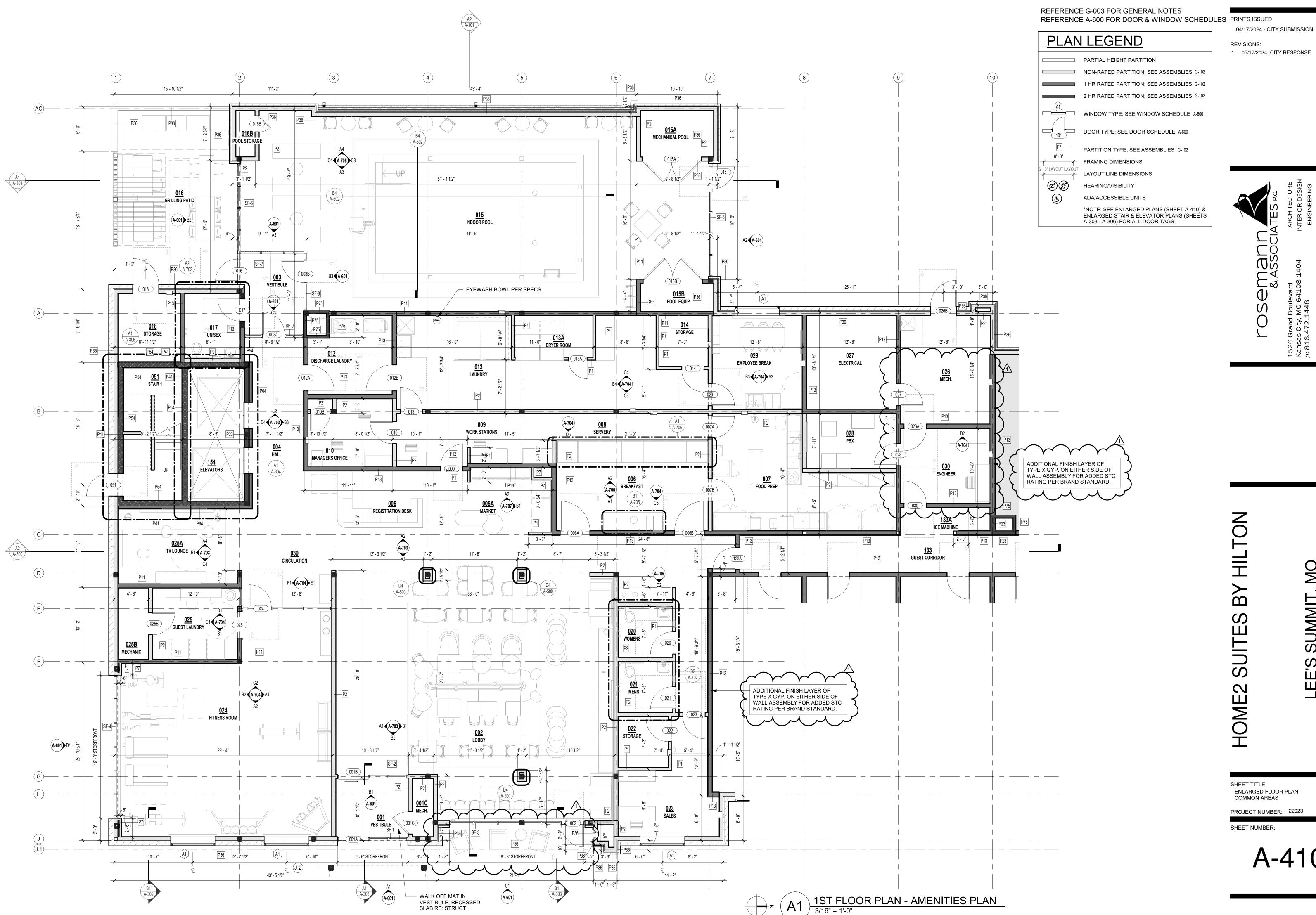
1ST FLOOR PLAN - ENLARGED ELEVATOR
1/4" = 1'-0"



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FRONT CANOPY PLAN / ELEV.

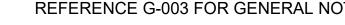
CANOPY DETAIL - SHORT SIDE



S.J.J.

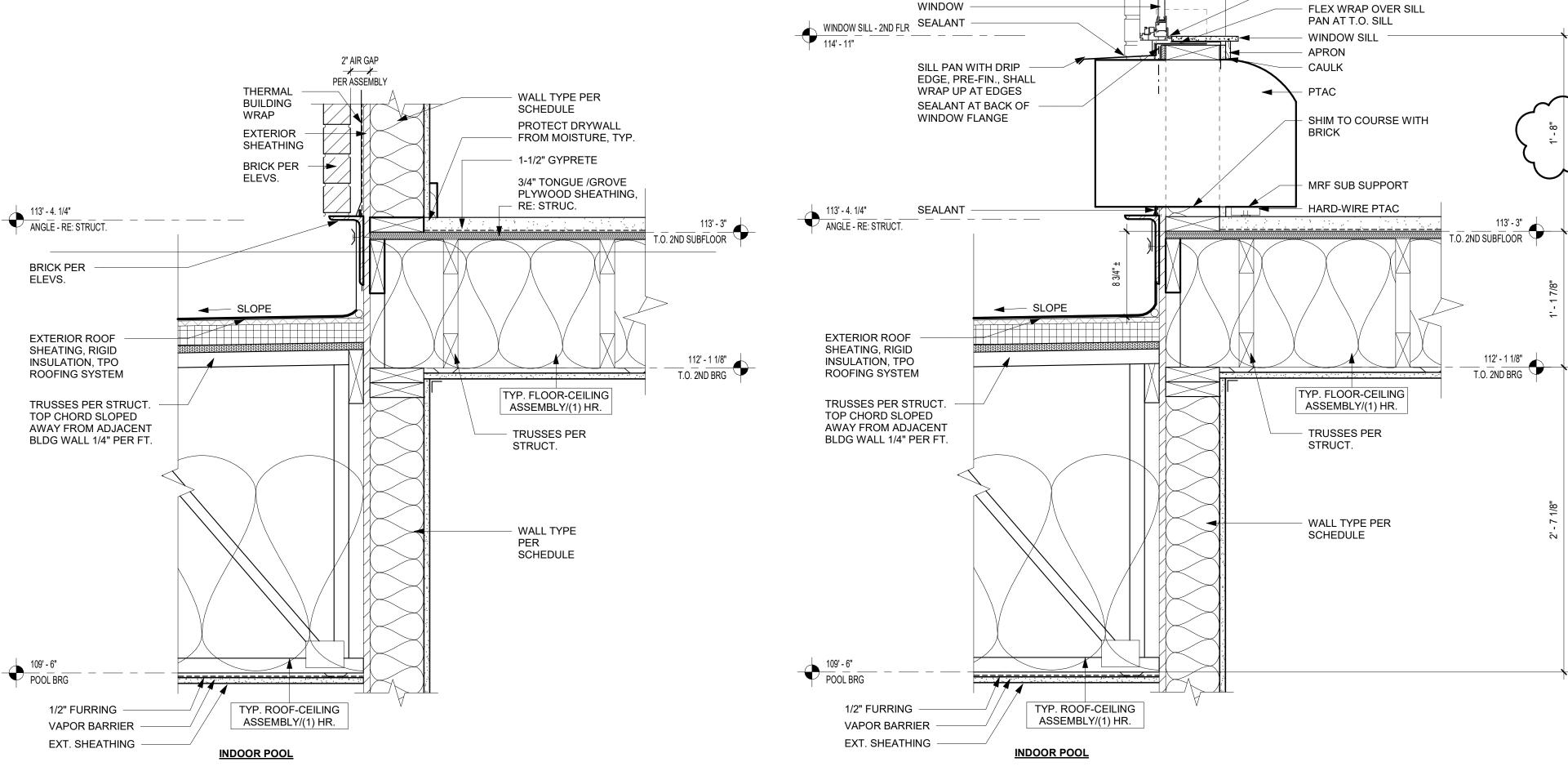
A-410

CAULKING



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WINDOW SIZE VARIES, RE:

ELEVATIONS & SCHEDULE

3/4" MOISTURE RESISTANT

MDF. TO MATCH UNIT BASE

1/2" RADIUS ON WINDOW SILL

2X STUD WALL BELOW, DEPTH VIEWING W/ EXTERIOR FINISH

WD. STUD FRAMING PER STRUCT.

SHEATHING PER STRUCT DWGS.

EXTERIOR FINISH PER ELEVATION

BOTH SIDES

WALL PER PLAN

- FLEX TAPE

BED OF SEALANT

ROWLOCK SILL BELOW

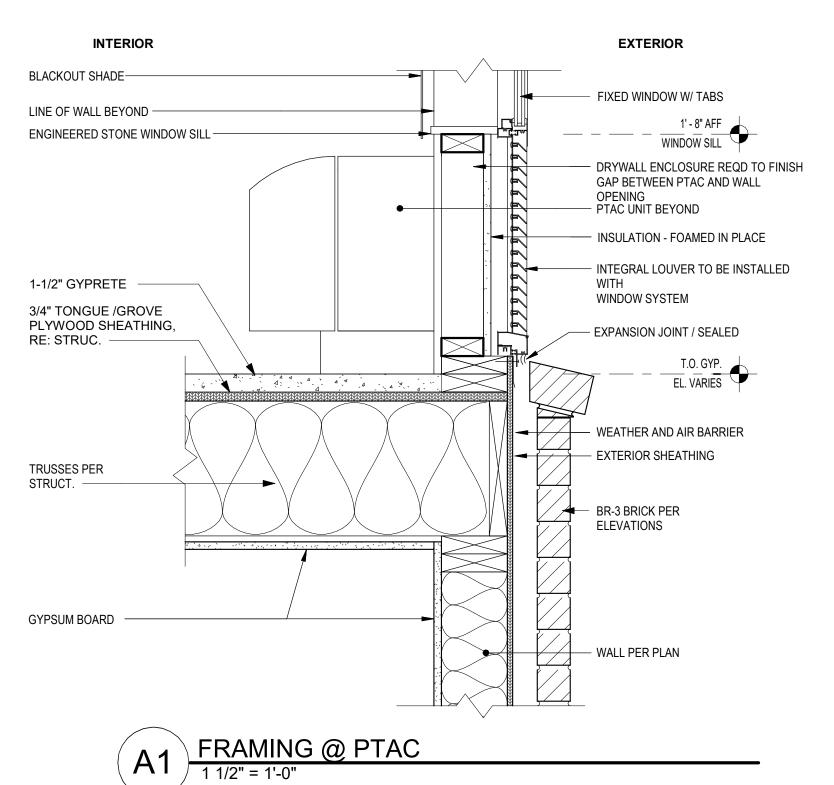
WINDOW PER SCHEDULE

PTAC GRILL PAINTED CUSTOM COLOR TO MATCH FRAME

FLEXIBLE FLASHING

BRICK PER ELEVATION BEYOND -

FRAMING - POOL ROOF DETAIL @ WINDOW

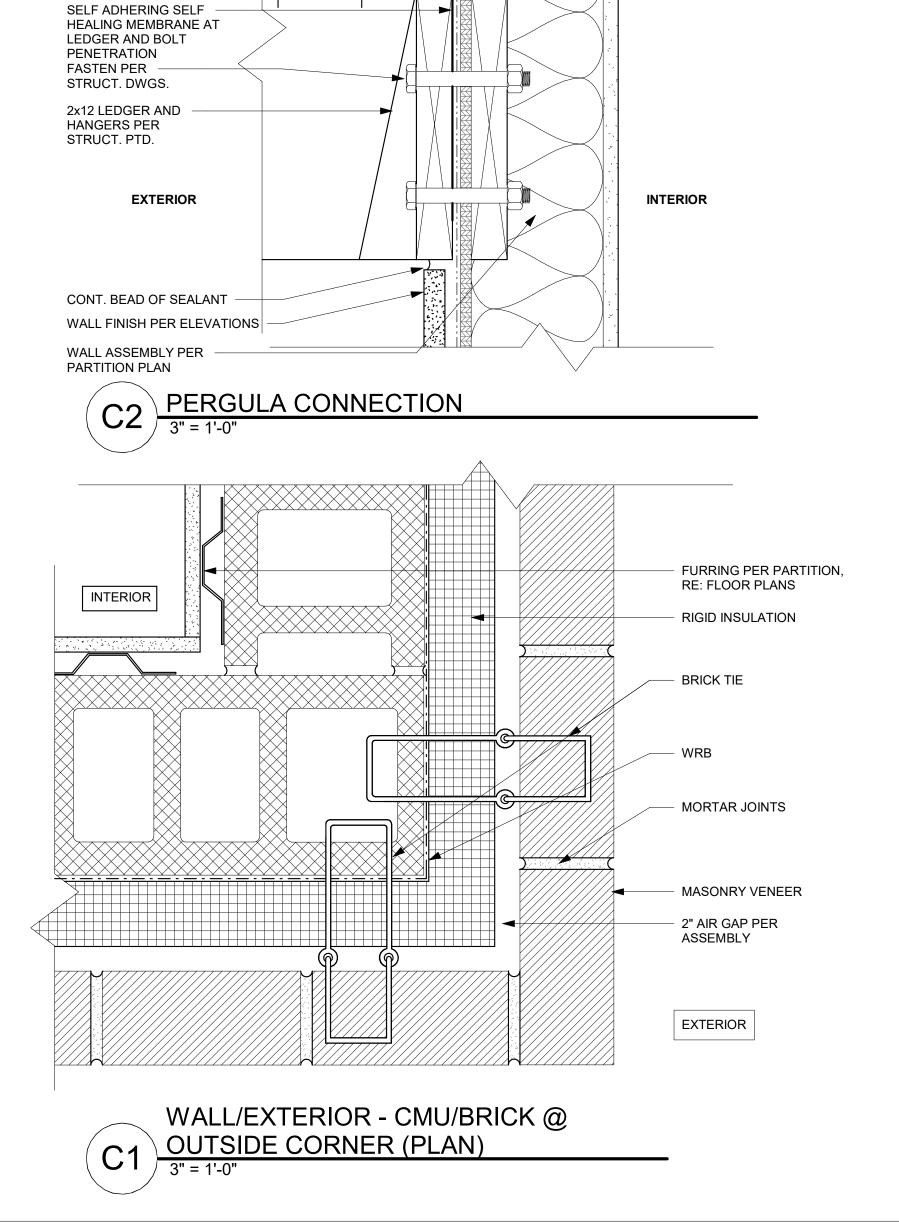


B SUITES **HOME2**

SHEET TITLE **DETAILS** PROJECT NUMBER: 22023

SHEET NUMBER:

A-501



NOTES:

(2) WD. JOISTS PER

PER STRUCT

PARTITION PLAN

STRUCT. EACH SIDE OF

THE COLUMN, ANCHOR

LEDGER PER STRUCT —

WALL ASSEMBLY PER —

COLUMN BEYOND; RE: STRUCT.

DWGS. PAINTED COLOR PER ARCH

-ALL EXPOSED WOOD TO BE

PAINTED/STAINED PER SPECIFICATION.

SIMPSON CLIP PER

WD. JOISTS PER

10/

(0////0/

STRUCT.

STRUCT

8' - 6 1/2" @ GRILLING PATIO

11 1/4"

BRICK ABOVE PER

ELEVATIONS

PURLIN PER

STRUCT, DO NOT ATTACH

TO BUILDING

STRUCT

SIMPSON CLIP PER

TAPE FLASHING

J MOLD TRIM

WD. JOISTS AND CLIPS PER STRUCT.

WALL FINISH PER ELEV.

CONT. BEAD OF SEALANT

PRE FINISHED MTL. FLASHING

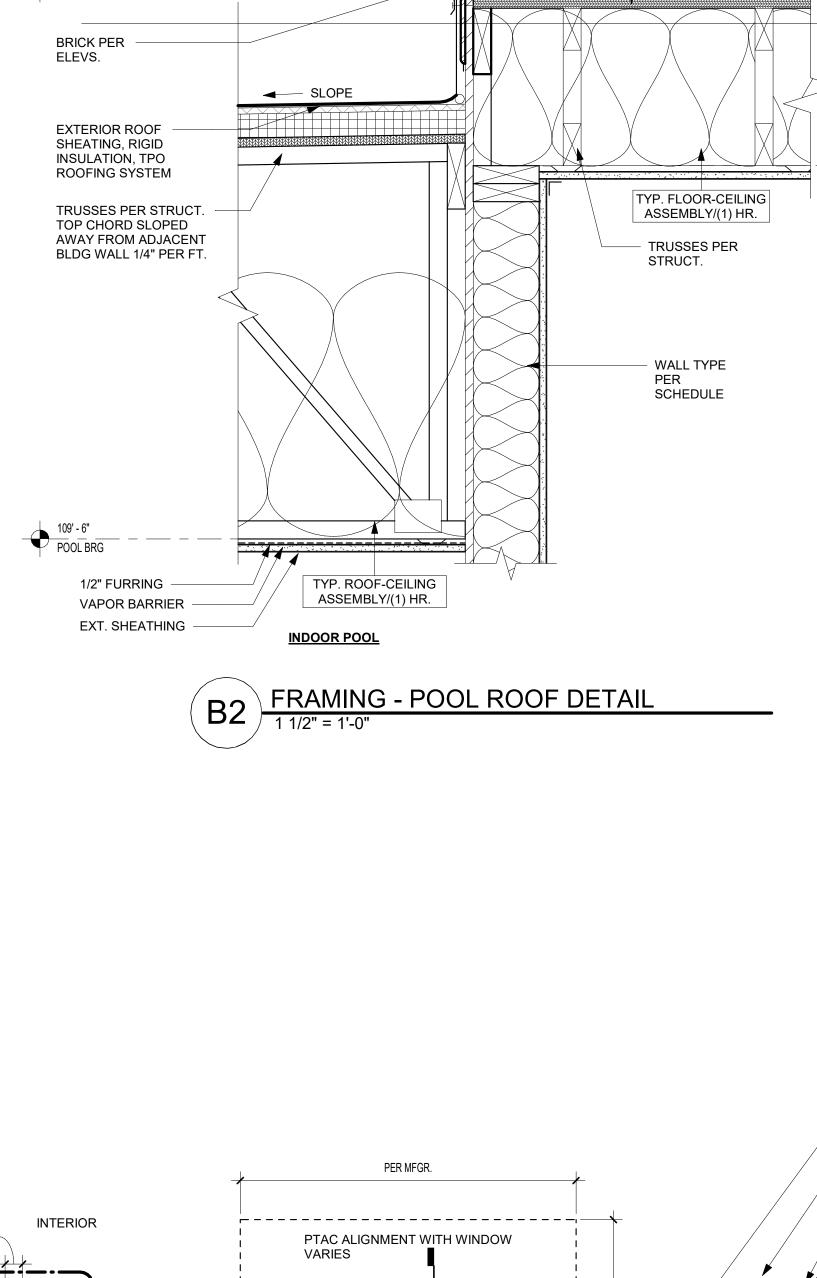
11' - 6 1/2" @ FRONT DROP OFF

PERGULA SECTION

PURLIN PER STRUCT

SIMPSON CLIP EACH

SIDE OF JOIST. PER STRUCT.



EXTERIOR

BRICK @ PTAC (PLAN)

DOOR SCHEDULE ABBREVIATIONS:

ALUMINUM

ANODIZED

BLACK

BRONZE

CLEAR

T.O. 1st FLOOR SLAB 001A VESTIBULE

001B LOBBY

003A HALL

001C VESTIBULE

003B VESTIBULE

006A BREAKFAST

006B BREAKFAST

007A FOOD PREP

007B FOOD PREP

013 LAUNDRY

013A LAUNDRY

LAUNDRY

015A INDOOR POOL

015B INDOOR POOL

016B INDOOR POOL

UNISEX

WOMENS

STORAGE

025B GUEST LAUNDRY

ENGINEER

133A CIRCULATION

T.O. 2nd SUBFLOOR 234 ELEVATOR LOBBY

251 STAIR-1

252 STAIR-2

351 STAIR-1

352 STAIR-2

Γ.O. 4th SUBFLOOR

T.O. 3rd SUBFLOOR

235 HOUSEKEEPING

334 ELEVATOR LOBBY

434 ELEVATOR LOBBY

435 HOUSEKEEPING

STAIR-1

STAIR-2

HOUSEKEEPING

026A ENGINEER

PBX

052A | STAIR 2

CIRCULATION

GUEST LAUNDRY

EMPLOYEE BREAK

MENS

SALES

INDOOR POOL

GRILLING PATIO

GRILLING PATIO

009 WORK STATIONS

010B MANAGERS OFFICE

012A DISCHARGE LAUNDRY

012B DISCHARGE LAUNDRY

MANAGERS OFFICE

LOBBY

4. DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

5. ALL DOOR HARDWARE TO BE LEVER TYPE HARDWARE,

6. ALL COMMON AREA RATED DOORS TO HAVE SMOKE SEALS (GASKETS), CLOSURES, AND LATCH HARDWARE.

7. UNIT ENTRY DOORS TO HAVE SPRING HINGES & LATCH HARDWARE, TYP UNO.

FIBERGLASS

3' - 0"

4' - 0"

4' - 0"

3' - 0"

3' - 0"

2' - 6"

3' - 0"

3' - 0"

8' - 0"

3' - 0"

3' - 0"

3' - 0"

3' - 0"

3' - 6"

3' - 0"

3' - 0"

3' - 0"

3' - 0"

3' - 0"

HOLLOW CORE WOOD

8' - 8"

7' - 0"

8' - 8"

7' - 0"

7' - 0"

6' - 8"

6' - 8"

6' - 8"

6' - 8"

6' - 8"

6' - 8"

6' - 8"

8' - 8"

6' - 8"

6' - 8"

8' - 8"

6' - 8"

6' - 8"

7' - 0"

7' - 0"

6' - 8"

6' - 8"

6' - 8"

6' - 8"

6' - 8"

8' - 0" | 6' - 8" | 1 3/4" | 45

2' - 8" 6' - 8"

3' - 6" 6' - 8"

2' - 2" 6' - 8"

3' - 6" 6' - 8"

3' - 0" 6' - 8"

|3' - 0" |6' - 8"

3' - 0" | 6' - 8"

|3' - 6" |6' - 8"

3' - 0" 6' - 8"

3' - 0" 6' - 8"

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3' - 0" 6' - 8"

3' - 0" 6' - 8"

3' - 0" | 6' - 8"

3' - 0" 6' - 8"

3' - 0" 6' - 8"

6' - 8"

3' - 0"

3' - 0" 6' - 8"

HOLLOW METAL

INSULATED METAL

PER MFR

PRE-FIN

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

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1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4" 90

1 3/4" 45

1 3/4"

SC WOOD / SCWD

8. ALL DOORS INTENDED FOR PASSAGE TO HAVE 32" CLEAR WIDTH PER ICC ANSI A117.1

FGL / FBG

INSUL MTL

HC WOOD / HCWD

DOOR TYPES

A1

SINGLE SWING

FLUSH

ALUM

ALUM

ALUM

ALUM

ALUM

GALV HM

GALV HM

GALV HM

GALV HM

НМ

HM

ALUM

GALV HM

GALV HM

GALV HM

GALV HM

ALUM

HM

НМ

НМ

НМ

ALUM

NOT APPLICABLE

WOOD CLAD

GLAZING

(AC) Hardware Door Type Door Material Door Finish Frame Type Frame Finish

SC WOOD

GALV HM

GALV HM

GALV HM

GALV HM

SC WOOD

SC WOOD

SC WOOD

SC WOOD

SC WOOD

GALV HM

SC WOOD

SC WOOD

SC WOOD GALV HM

GALV HM

ALUM

SC WOOD

HM

HM

ALUM

A1

A1

A1

Yes

Yes

Yes

Yes

No

Yes

WD CLAD

DOOR OPENING SCHEDULE

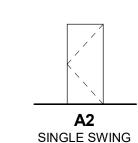
NOT APPLICABLE

PAINTED SOLID CORE WOOD

PRE-FINISHED

Fire Rating | Access Control | Panic

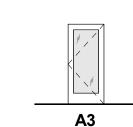
PER MANUFACTURER



FLUSH

GUEST ROOM ENTRY

J2 CASED OPENING



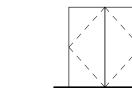
SINGLE SWING

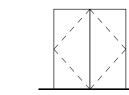
FULL LITE

M2

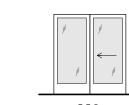
STOREFRONT

SINGLE SWING





DOUBLE SWING



М3

FLUSH

STOREFRONT SLIDING AUTOMATIC

Group

PRINTS ISSUED

REVISIONS:

04/17/2024 - CITY SUBMISSION

1 05/17/2024 CITY RESPONSE

 \Box

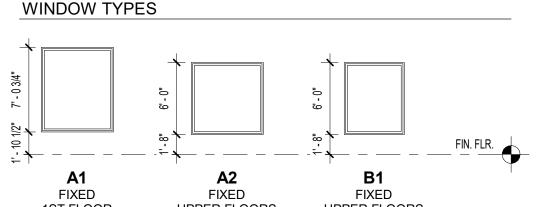
S

HOME

SHEET TITLE WINDOW / DOOR / FINISH SCHEDULES

PROJECT NUMBER: 22023

SHEET NUMBER:



UPPER FLOORS 1ST FLOOR UPPER FLOORS **GUEST ROOM** CORRIDORS

HAZARDOUS LOCATIONS SHALL BE IDENTIFIED BY MFR'S DESIGNATION. 3. CONFIRM OPERATION OF SASH LOCKS AT "TYPE A" UNITS WILL BE WITHIN 48" REQUIRED REACH RANGE PER A4 / G-300 4. REFER TO CODE SHEET FOR ALL FIRE RATINGS.

SHALL BE TEMPERED / SAFETY GLAZING.

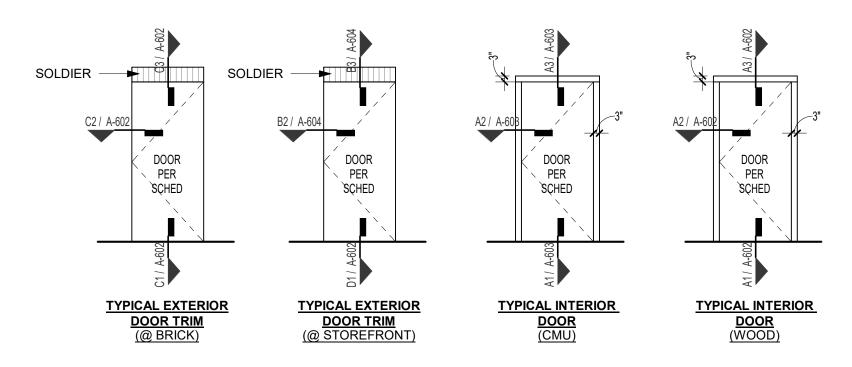
2. EACH PANE OF SAFETY GLAZING INSTALLED IN

GLAZING DEEMED TO BE IN A HAZARDOUS LOCATION

5. WINDOW LOCATIONS PER PLANS.

WINDOW SCHEDULE													
Type Mark	Location	Width	Height	Comments									
A1	TYP. 1ST FLOOR	6' - 0"	7' - 0 3/4"										
A2	TYP. UPPER FLOOR GUEST ROOMS	6' - 0"	6' - 0"										
B1	UPPER FLOOR CORRIDORS	5' - 0"	6' - 0"										

					DOOR S	CHEDULE -	UNIT DOORS	
Mark	Width	Height	Thickness	Fire Rating (Minutes)	Door Type	Frame Type	Comments	Hardware Group
GR-01	3' - 0"	6' - 8"	1 3/4"	20	A2	НМ		27
GR-02	3' - 0"	6' - 8"	1 3/4"		A1	НМ		28
GR-03	3' - 0"	6' - 8"	1 3/4"	45	A1	НМ	a	29
GR-04	3' - 0"	6' - 8"	1 3/4"		A1	НМ		30
GR-05	3' - 0"	6' - 8"	1 3/4"		A1	НМ		31

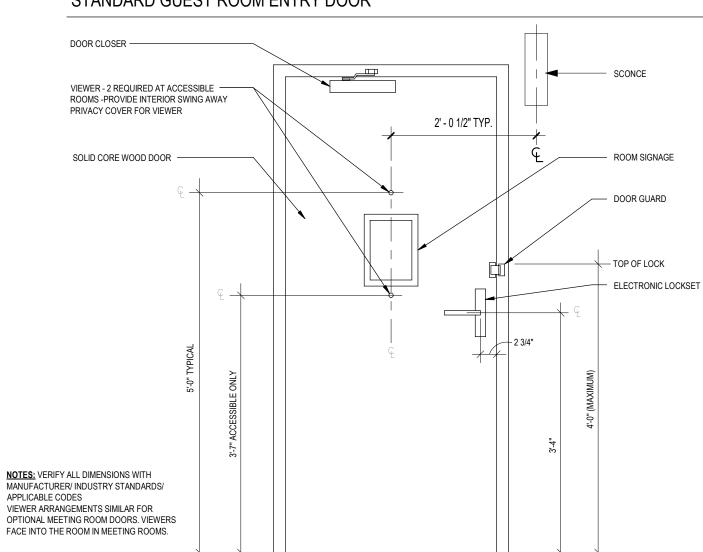


DOOR TRIM & CASING - TYPICAL

DOOR SCHEDULES COMMENTS:

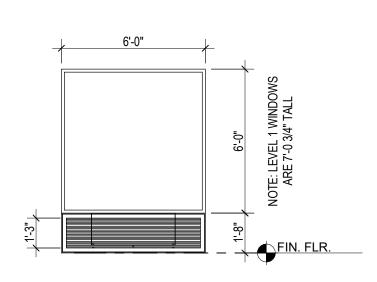
- a. PROVIDE (2) DOORS FOR EACH COMMUNICATING DOOR LOCATION.
- b. SLIDING AUTOMATIC ENTRANCE: BASIS OF DESIGN IS BESAM UNISLIDE OC-S, OVERHEAD CONCEALED FIXED SIDELITE, NARROW STILE SINGLE SLIDE DOOR SYSTEM.
- c. ALUMINUM DOOR WITHIN STOREFRONT FRAME. BASIS OF DESIGN IS KAWNEER 500 WIDE STILE DOORS. DOORS & FRAMES TO BE PAINTED, ALL HARDWARE & TRIM TO BE CLEAR ANODIZED ALUMINUM OR US32D. REFER TO ELEVATIONS.
- d. DOORS ON MAGNETIC HOLD OPENS TO TIED INTO FIRE ALARM SYSTEM AND TO RELEASE
- e. C-SERIES HOLLOW METAL DOOR FRAME WITH NO BACKBENDS.
- f. PROVIDE (1) REMOTE READER AND (1) INTERCOM/BUZZER -- REFER TO HARDWARE SET FOR
- g. EXTERIOR DOOR FINISH TO MATCH ADJACENT WALL COLOR -- SEE EXTERIOR ELEVATIONS.

STANDARD GUEST ROOM ENTRY DOOR

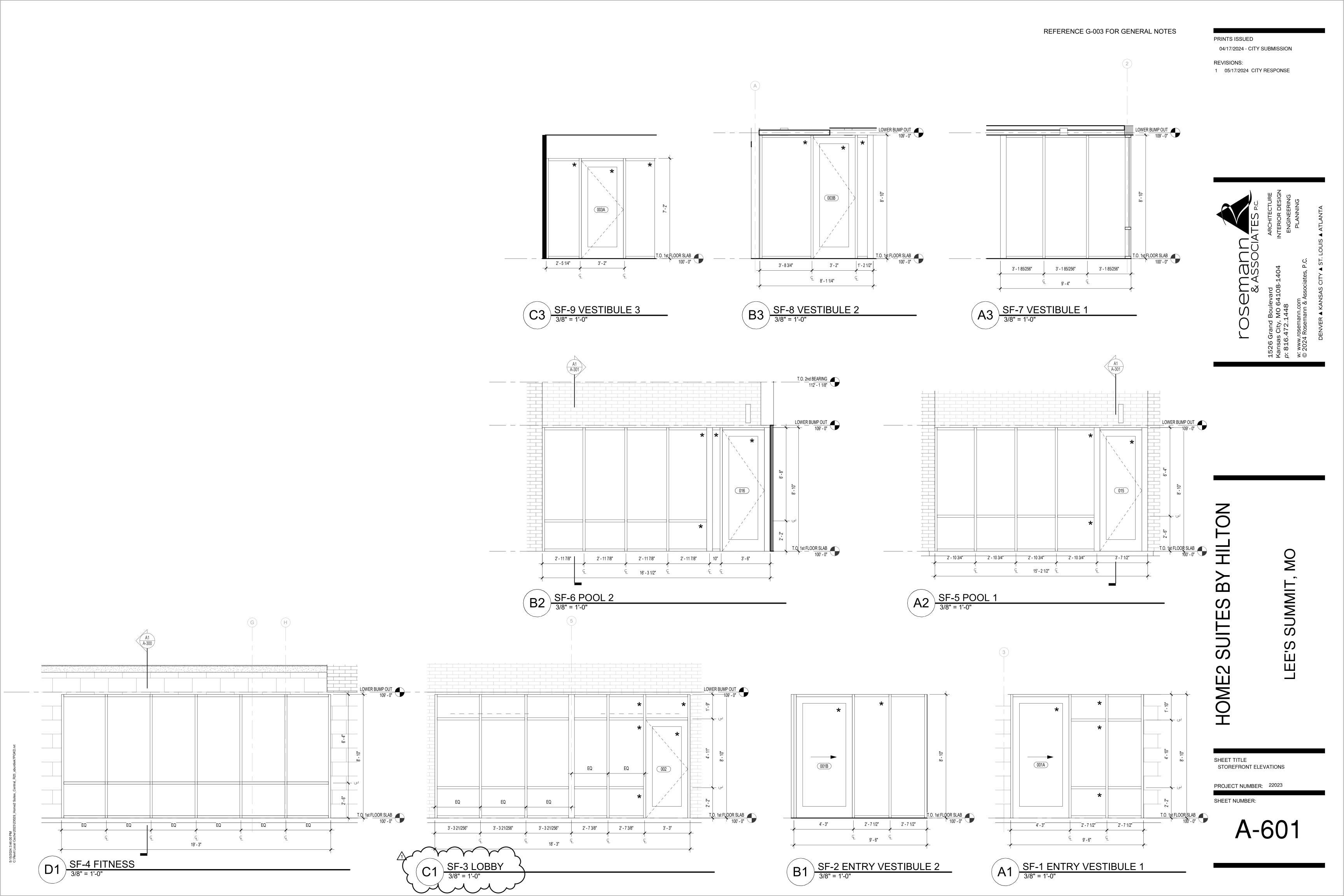


STANDARD GUEST ROOM ENTRY DOOR

TYPICAL GUEST ROOM WINDOW



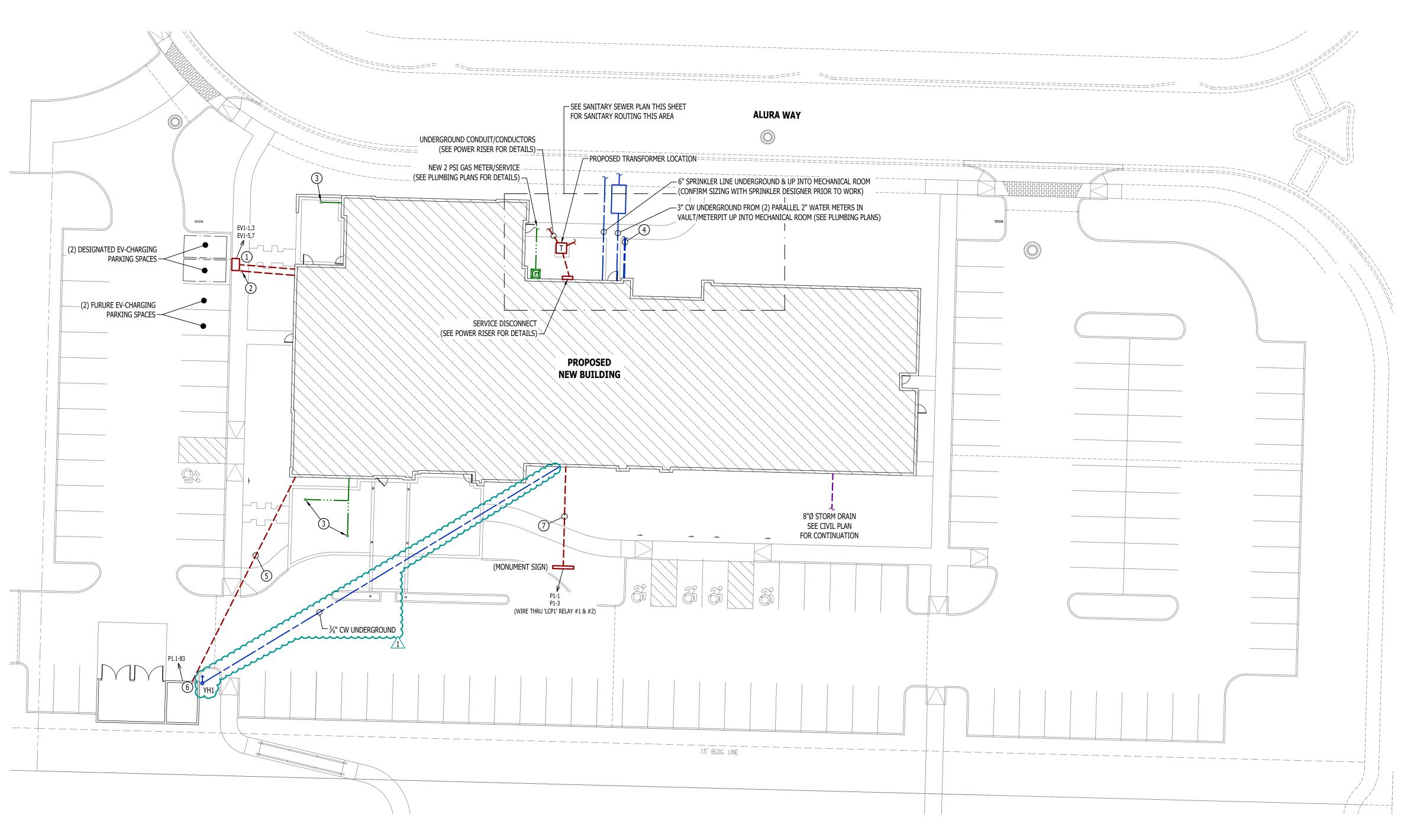




SITE PLAN SYMBO	DL LEGEND	;	SITE UTILITIES PLAN GENERAL NOTES:	SITE UTILIT
	SANITARY SEWER PIPING		. REFER TO CIVIL PLANS FOR EXACT UTILITY LOCATIONS, CONNECTIONS, DETAILS, ETC.	1 PROVIDE & I COORDINATI
	COLD WATER LINE			2) PROVIDE & I GREEN-SPAC
M	WATER METER			3 ¾" UNDERGI 200kBTU. SI
	VALVE			(2) 2" SLEEV WITH IRRIG.
	GAS LINE			(5) 1" CONDUIT
G	GAS METER			6 PROVIDE & I AREA.
	TIE INTO EXISTING			7) 1" CONDUIT REQUIREMEN
	ELECTRIC			KEQUIKEMEI
──> PX-XX	CIRCUIT TAG			

SITE UTILITIES PLAN KEY NOTES:

- 1 PROVIDE & INSTALL LEVEL-2, DUAL-STATION, EV-CHARGING SYSTEM EQUAL TO JUICEBAR GEN-3 #JB3.0-402; COORDINATE EXACT LOCATION & REQUIREMENTS WITH OWNER.
- PROVIDE & INSTALL (2) 3" SPARE CONDUITS (EACH WITH PULL-STRING) FROM PANEL 'EV1' LOCATION TO GREEN-SPACE NEAR EV-CHARGING AREA FOR FUTURE USE.
- 3) 3/4" UNDERGROUND GAS PIPING UP TO GRILL/FIREPIT. TOTAL ESTIMATED LOAD AT EACH GRILL/FIREPIT = 200kBTU. SEE PLUMBING PLANS FOR DETAILS.
- (2) 2" SLEEVES BELOW GRADE FROM MECHANICAL ROOM TO IRRIGATION METER FOR CONTROLS. COORDINATE WITH IRRIGATION CONTRACTOR.
- 5) 1" CONDUIT WITH (2) #10 CU. & (1) #10 CU. EQ. GRD.
- ROVIDE & INSTALL (1) WEATHERPROOF GFCI RECEPTACLE & (1) 'S1' LIGHT FIXTURE IN ENCLOSED STORAGE
- 7) 1" CONDUIT WITH (4) #10 CU. & (2) #10 CU. EQ. GRD. FOR (2) MONUMENT SIGN CIRCUITS. COORDINATE EXACT REQUIREMENTS & DETAILS WITH SIGNAGE SUPPLIER/INSTALLER.

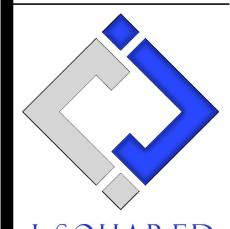


SITE UTILITIES PLAN

SCALE: 1" = 20 ft



James Watson, P.E. May 17, 2024 PE-2015017071 MO Certificate of Authority # 2018029680



2400 Bluff Creek Drive, Suite 101
Columbia, Missouri 65201
573.234.4492

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	J2 PROJECT No:	J21005
	J2 DESIGN:	ACW
	ISSUE TITLE	DATE
	CITY SUBMISSION	04 / 17 / 2024
1	REVISION 1 - CITY RESPONSE	05 / 17 / 2024

GREASE INTERCEPTOR

SITE UTILITIES PLAN - SANITARY SEWER

SCALE: 1" = 20 ft

(SEE SANITARY PLANS)

→ SEE CIVIL PLAN
FOR CONTINUATION

Suites By Hilton

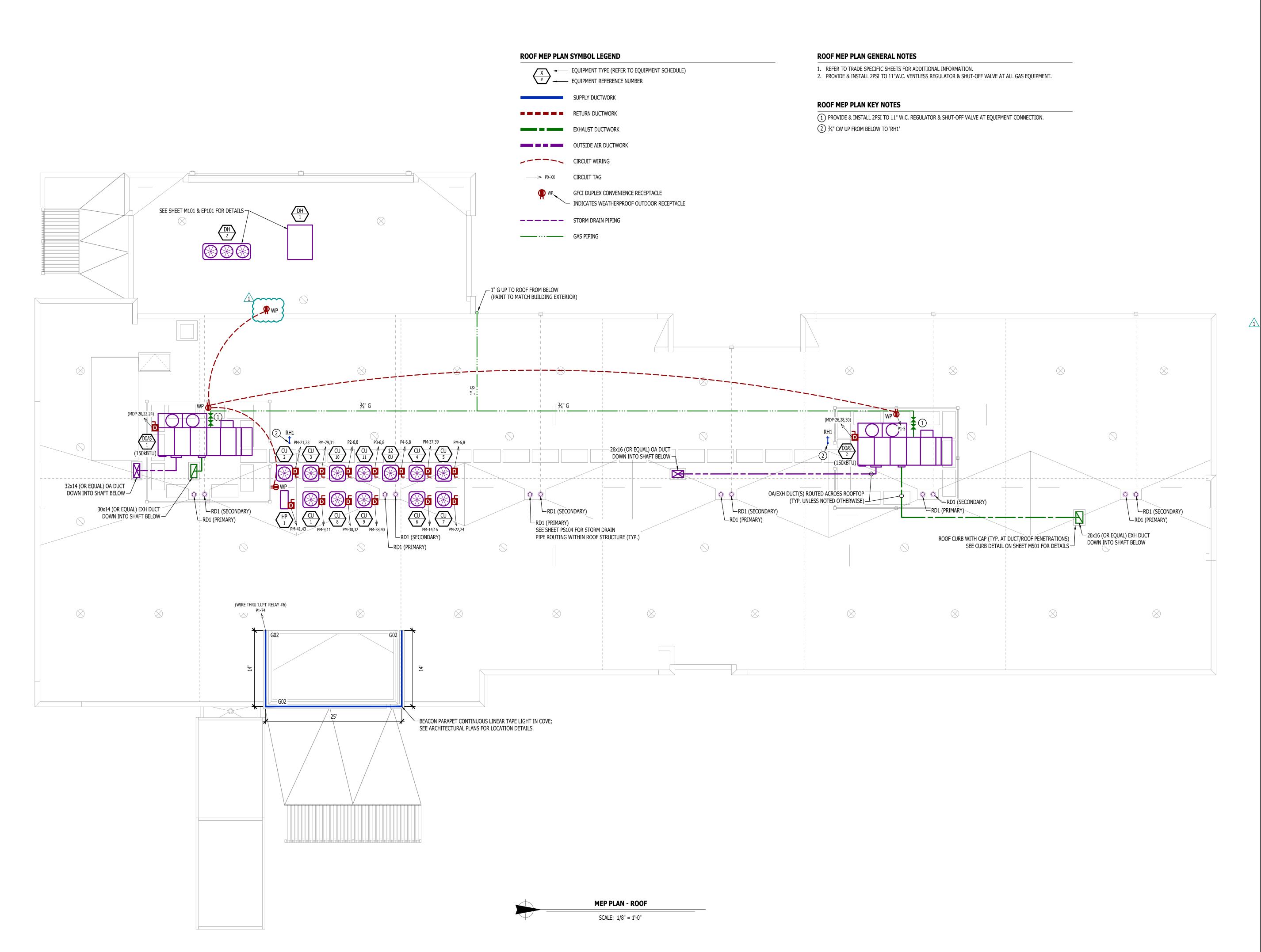
MECHANICAL - I

AHJ APPROVAL STAMP

SITE UTILITIES PLAN

HEET NUMBER

MEP2





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CITY SUBMISSION	04 / 17 / 2024

CITY SUBMISSION 04 / 17 / 2024

REVISION 1 - CITY RESPONSE 05 / 17 / 2024

al - PLUMBING DESIGN DRAWINGS FOR: UITES BY HIITON

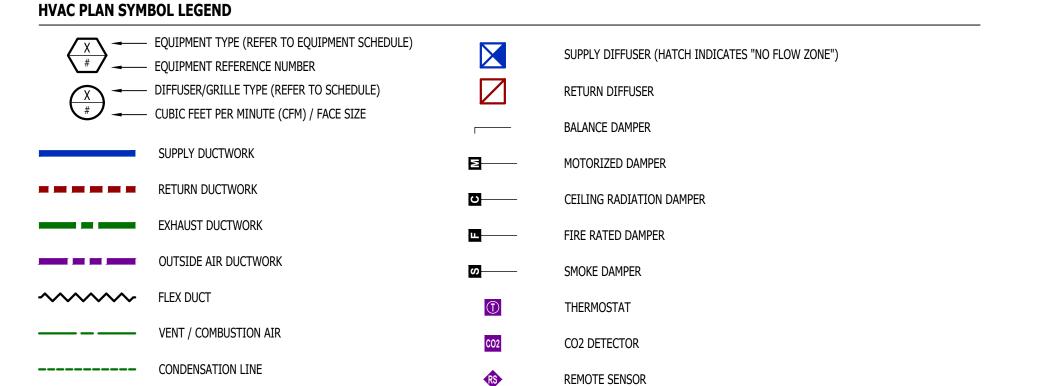
Home 2 Suites

AHJ APPROVAL STAMP

MEP PLAN - ROOF

SHEET NUMBER

MEP4

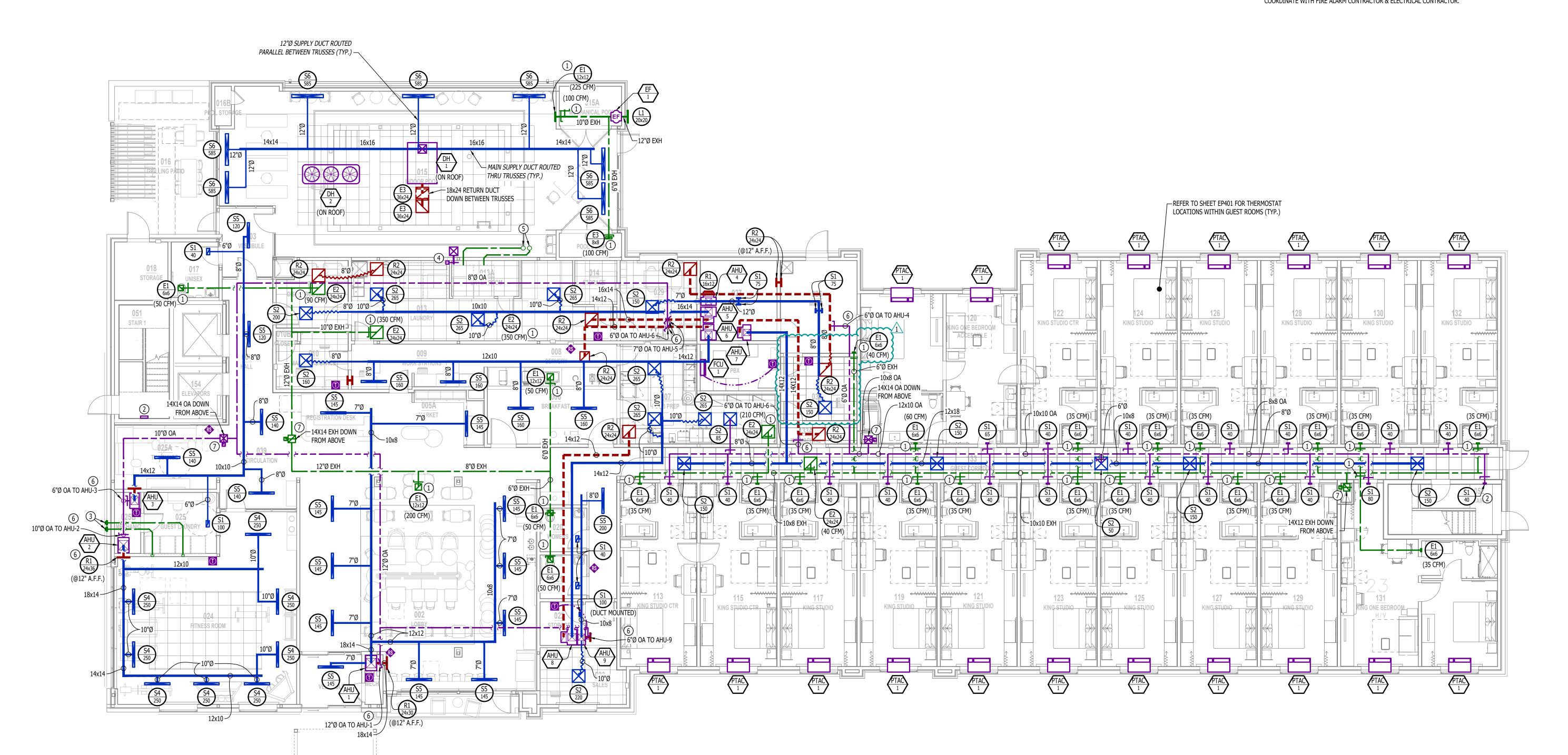


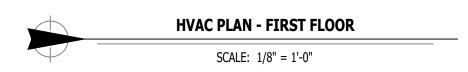


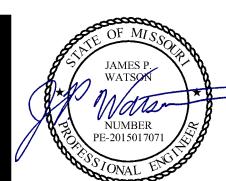
- 1. SEE M500 & M600 SERIES SHEETS FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
- 2. ALL DUCTWORK SHALL ROUTE IN SPACE ABOVE FINISHED CEILINGS UNLESS NOTED OTHERWISE.

HVAC PLAN KEY NOTES:

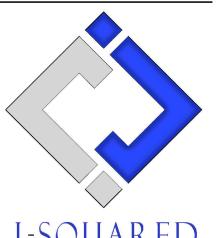
- 1) BALANCE EXHAUST FLOW TO AMOUNT SHOWN (XXX CFM)
- (2) ELECTRIC WALL HEATER PROVIDED & INSTALLED BY ELECTRICIAN.
- (3) 4" DRYER EXHAUST FROM GUEST LAUNDRY DRYER TO EXTERIOR; TERMINATE WITH #DWV (COLOR DETERMINED BY ARCHITECT). WRAP DRYER EXHAUST WITH ZERO-CLEARANCE FIREWRAP EQUAL TO FIREMASTER DUCTWRAP OR EQUAL. DRYER EXHAUST SHALL NOT EXCEED 35' IN TOTAL DEVELOPED LENGTH PER IMC 504.8.4.
- (4) 16x16 COMBUSTION AIR DUCT OPEN TO DRYER ROOM; UP THRU ROOF TO GOOSENECK WITH 3/8" HARDWARE CLOTH OVER OPENING; INCLUDE MOTORIZED DAMPER ON OA DUCT INTERLOCKED WITH DRYER(S) - WHEN ANY DRYER IS IN OPERATION, DAMPER SHALL BE OPEN.
- (5) DRYER VENT ROUTED ABOVE CEILING TO TERMINATE UP THRU ROOF WITH GOOSENECK; LOCATE AT LEAST 10' FROM COMBUSTION AIR INTAKE.
- (6) BALANCE OA TO AMOUNT SHOWN IN EQUIPMENT SCHEDULE AT AHU RETURN DUCT CONNECTION.
- (7) COMBINATION FIRE/SMOKE DAMPER AT SHAFT PENETRATION; DAMPER TO CLOSE UPON FIRE ALARM SIGNAL. COORDINATE WITH FIRE ALARM CONTRACTOR & ELECTRICAL CONTRACTOR.







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Suites Home

AHJ APPROVAL STAMP

HVAC PLAN - FIRST FLOOR

M101

												DEDICA	TED OUTS	IDE AIR	SYSTEM (DOAS) SC	HEDULE	•																
						AIRFLOW				FILT	RATION		ENERGY R	RECOVERY				GAS HEATING	1					COOLING					ELECTRICAL		PHYS	ICAL		
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)		SUPPI	LY FAN			EXHAUST FAN					EFFECTI	IVENESS		TAIDLE	OLEDIE.		5 D D	1.0.0	E.A	.т.	L.A.1	T.	SENSIBLE	NET TOTAL					DIMENSIONS	WEIGHT	NOTES	
	(OK EQUAL)	(onequie)	A IRFLOW (CFM)	E.S.P (in. H20)	T.S.P. (in. H20)	НР	AIRFLOW (CFM)	E.S.P (in. H20)	HP	SIZE	EFFICIENCY	TOTA L COOLING	SENS. COOLING (kBTU)	TOTAL HEATING	SENS. HEATING (kBTU)	TING CAPACITY			TURNDOWN	E.D.B. (°F)	(°F)	D.B. (°F)	W.B. (°F)	D.B. (°F)	W.B. (°F)	CAPACITY (kBTU)	CA PA CITY (kBTU)	EER	VOLTS/PH	MCA	ОСР	(LxWxH)	(LBS)	
DOAS-1	TRANE	OADG020F1-DAB10AE00-E3AEE3AE0-21A40B03C-A00C00A00-A00A00000-00AK00000	3020	1.00	2.52	1.69	2770	1.00	1.38	2"	MERV-8 - 30%	92.48	43.08	185.9	140.3	150	120	8:1	48.5	85.1	81.3	70.3	46.5	46.2	108.8	206.8	14.9	208/3	87	110-3	212x52x70	4172	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	
DOAS-2	TRANE	OADG020F1-DAB10AE00-G3AEE3AE0-21A40B03C-A00C00A00-A00A00000-00AK00000	3150	1.00	2.61	1.83	2775	1.00	1.39	2"	MERV-8 - 30%	93.3	43.8	188.3	142.6	150	120	8:1	47.4	82.5	81.6	70.5	47.5	47.2	110.6	214.7	15.0	208/3	87	110-3	212x52x70	4172	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	

1. HORIZONTAL DISCHARGE / HORIZONTAL RETURN

2. DX 6-ROW COIL; DIGITAL SCROLL FIRST CIRCUIT COMPRESSOR 3. DIRECT DRIVE SUPPLY & EXHAUST FAN MOTORS W/ SHAFT GROUNDING RING & VFD

4. WITH UC600 DISCHARGE AIR CONTROLLER

5. WITH BACNET BUILDING INTERFACE 6. WITH ERC-3625-4M ENERGY RECOVERY WHEEL (ALUMINUM CONSTRUCTION, FROST PROTECTION, WITH VFD)

7. WITH MODULATING OA & RA DAMPERS WITH ECONOMIZER 8. WITH BAROMETRIC RELIEF DAMPERS

9. WITH FACTORY INSTALLED DISCONNECT & HAIL-GUARDS

10. WITH ACTIVE (VFD) HEAD PRESSURE LOW-AMBIENT CONTROL 11. WITH SMOKE DETECTOR IN RETURN AIR DUCT TO SHUT DOWN UNIT AND SEND SIGNAL TO BUILDING FIRE ALARM SYSTEM UPON DETECTION OF SMOKE. IF NO BUILDING FIRE ALARM SYSTEM IS PRESENT, PROVIDE ALARM DEVICE IN OCCUPIED AREA.

(CURB-MOUNTED SCREEN SYSTEM REMOVED)

	EQUIPMENT	SIZE		TOTAL	E.S.P.	DOAS OA	HEATING	(IA: 80	COOLING DB/67 WB, OA	A: 95 DB)		ELECTRICAL		
TAG	DESCRIPTION	(TONS)	ORIENTATION	A IRFLOW (CFM)	(in. H20)	(CFM)	ELECTRIC (KW)	SENSIBLE (KBTU)	TOTAL (KBTU)	MIN EFF. (SEER2)	VOLTS/PH	МСА	ОСР	NOTES
AHU-1	AIR HANDLING UNIT	4.0	UPFLOW	1600	0.5	345	19	-	-	-	208/1	51, 43	60-2, 45-2	1, 2
AHU-2	AIR HANDLING UNIT	5.0	UPFLOW	2000	0.5	225	19	-	-	-	208/1	51, 43	60-2, 45-2	1, 2
AHU-3	AIR HANDLING UNIT	2.0	UPFLOW	800	0.5	70	10	-	-	-	208/1	51	60-2	1, 2
AHU-4	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	95	8	-	-	-	208/1	44	45-2	1, 2
AHU-5	AIR HANDLING UNIT	2.5	UPFLOW	1000	0.5	110	10	-	-	-	208/1	51	60-2	1, 2
AHU-6	AIR HANDLING UNIT	2.0	UPFLOW	800	0.5	85	10	-	-	-	208/1	51	60-2	1, 2
AHU-7	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	50	8	-	-	-	208/1	44	45-2	1, 2
AHU-8	AIR HANDLING UNIT	2.0	UPFLOW	800	0.5	-	10	-	-	-	208/1	51	60-2	1, 2
AHU-9	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	35	8	-	-	-	208/1	44	45-2	1, 2
AHU-10	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	-	8				208/1	44	45-2	1, 2
AHU-11	AIR HANDLING UNIT	1.5	UPFLOW	600	0.5	-	8				208/1	44	45-2	1, 2
AHU-12	AIR HANDLING UNIT	2.0	UPFLOW	800	0.5	-	10				208/1	51	60-2	1, 2
CU-1	CONDENSING UNIT	4.0	-	-	-	-	-	36.8	48.3	13.4	208/1	24	40	3, 4
CU-2	CONDENSING UNIT	5.0	-	-	-	-	-	41.0	57.0	13.4	208/1	34	60	3, 4
CU-3	CONDENSING UNIT	2.0	-	-	-	-	-	18.2	24.5	13.4	208/1	14	25	3, 4
CU-4	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-5	CONDENSING UNIT	2.5	-	-	-	-	-	23.1	32.0	13.4	208/1	16	25	3, 4
CU-6	CONDENSING UNIT	2.0	-	-	-	-	-	18.2	24.5	13.4	208/1	14	25	3, 4
CU-7	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-8	CONDENSING UNIT	2.0	-	-	-	-	-	18.2	24.5	13.4	208/1	14	25	3, 4
CU-9	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-10	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-11	CONDENSING UNIT	1.5	-	-	-	-	-	13.6	18.6	13.4	208/1	12	20	3, 4
CU-12	CONDENSING UNIT	2.0	-	-	-	-	-	18.2	24.5	13.4	208/1	14	25	3, 4

1. PROVIDE AND INSTALL 7 DAY PROGRAMABLE THERMOSTAT. COORDINATE EXACT MOUNTING LOCATION WITH OWNER. 2. INCLUDE CORROSION RESISTANT DRAIN PAN WITH OVERFLOW SWITCH WIRED TO SHUT DOWN UNIT.

3. WITH FACTORY HAIL GUARD.

4. LOW AMBIENT PACKAGE FOR OPERATION TO 0° F.

				PTAC S	SCHEDUI	LE						
TAG	FOLEDWINE DESCRIPTION	MA NUFA CTURER	MODEL NUMBER	TOTAL	HEATING	(IA: 80	COOLING DB/67 WB, OA	: 95 DB)		ELECTRICAI	NOTES	
TAG	EQUIPMENT DESCRIPTION	(OR EQUAL)	(OR EQUAL)	A IRFLOW (CFM)	ELECTRIC	SENSIBLE	SENSIBLE TOTAL CAP.				NOTES	
				(6.1.)	(KW)	(KBTU)	(KBTU)	(EER)	VOLTS/PH	MCA	OCP	
PTAC-1	PACKAGED TERMINAL AC	FRIEDRICH	PDE07K3SG	315 - 255	3.5	6.2	7.2	13.0	208/1	16	20-2	1, 2, 3, 4
PTAC-2	PACKAGED TERMINAL AC	FRIEDRICH	PDE09K3SG	355 - 275	3.5	8.0	9.4	12.1	208/1	16	20-2	1, 2, 3, 4
										-		

NOTES:

1. PROVIDE & INSTALL 2. WITH WALL SLEEVE

3. WITH #PXSB23020 UNIT SUBBASE & #PXDS DISCONNECT SWITCH

4. WITH ARCHITECTURAL SERIES EXTERIOUR GRILLE (VERIFY STYLE WITH ARCHITECT)

					POO	L DEH	UMID	IFICA	TION	UNIT S	CHEDULE						
			CHDDLY	0.1	FAN		TEMP / H	HUMIDITY		ELECTRIC	R	410A COOLING		E	LECTRICA	AL	
TAG	MA NUFA CTURER	MODEL #	SUPPLY	OA CFM	E.S.P.	SPACE	IMAYDHI					CAPACITY (MBH)		VOLT	MCA	МОР	NOTES
					(IN)	TEMP MAX RH		FT TE		(kW)	NET SENSIBLE	TOTAL	(lb / hr)	TOLI	HOA	1101	
DH-1	DESERT-AIRE	LC-10C7NEFUMDAED	4100	375	1.5	84	56	500	82	19	-1	-	-	208/3	117	125-3	1, 2, 3, 4, 5, 6, 7, 8
DH-2	DESERT-AIRE	RC5S051C3H21900	-	-	-	-	-	-	-	-	71.8	135.0	59.0	208/3	8	15-3	6,8/1

1. ALL COOLING CAPACITES BASED ON 92°F OUTSIDE AIR TEMPERATURE.

2. THE MANUFACTURER SHALL REVIEW ALL CONDITIONS & GUARANTEE A FULLY OPERATIONAL SYSTEM & PROVIDE INDOOR CONDITIONS OF 84°F SPACE TEMP AT A WATER TEMP OF 2 DEGREES COOLER.

3. ALL CONTROLS ARE THE RESPONSIBILITY OF THE MANUFACTURER & CONTRACTOR.

4. UNIT SHALL HAVE FACTORY ASSISTED START-UP WITH WEB INTERNET CONNECTION. INTERNET CONNECTION REQUIRED AT UNIT.

5. UNIT SHALL BE PROVIDED WITH THE FOLLOWING: FACTORY MOUNTED INTEGRAL DISCONNECTS ON OUTDOOR UNITS, REMOTE THERMOSTAT / DEHUMIDISTAT WITH RETURN DUCT MOUNTED SENSORS, ELECTRIC REHEAT FOR HUMIDITY CONTROL, 2" PLEATED FILTERS WITH CLOGGED FILTER SWITCH, SWIMMING POOL PROTECTIVE COATING ON FULL INTERIOR CASING & COILS, AND STAINLESS STEEL HEAT EXCHANGER.

6. WITH CURB & ACCESSORIES FOR EXTERIOR (ROOF) MOUNTING CONFIGURATION

7. WITH RETURN DUCT SMOKE-DETECTOR INTEGRATED INTO BUILDING FIRE ALARM SYSTEM. $\stackrel{\frown}{1}$ 8. WITH CURB OR EQUIPMENT RAIL MOUNTED SCREENING SYSTEM WITH SMOOTH PANEL PROFILE. VERFIY PANEL & TRIM COLOR WITH ARCHITECT.

	MINI-SPLIT SYSTEM SCHEDULE											
TAG	EQUIPMENT	SIZE	I ORIENIATION I	TOTAL AIRFLOW	HEATING (IA:70 DB, OA:17 DB)	(IA: 8	COOL 80 DB/67 W	ING /B, OA: 95 DB)		ELECTRICAI	L	NOTES
	DESCRIPTION	(TONS)		(CFM)	TOTAL (KBTU)	SENSIBLE (KBTU)	TOTAL (KBTU)	EFFICIENCY (SEER)	VOLTS/PH	MCA	ОСР	110120
FCU-1	. FAN-COIL UNIT	2.0	WALL-MOUNT	700	-	-	-	-	(POW	/ERED THRU	HP-1)	1, 3, 4
HP-1	HEAT PUMP	2.0	STANDARD	-	18.3	18.5	24	21	208/1	14	25-2	2, 5

1. WITH WIRED THERMOSTAT

2. WITH WIND BAFFLE

3. WITH FIELD INSTALLED CONDENSATE PUMP

4. EQUAL TO MITSUBISHI #PKA-A24KA7

5. EQUAL TO MITSUBISHI #PUZ-A24NHA7

	EXHAUST FAN SCHEDULE										
TAG EQUIPMENT TYPE		MA NUFA CTURER	MODEL		w		ELECTRICA L		PHYS		NOTES
"		(OR EQUAL)	(OR EQUAL)	CFM	S.P.	VOLT/PH	MCA	ОСР	DIM.	WEIGHT	110120
EF-1	IN-LINE EXHAUST FAN	SOLER & PALAU	TD-200S	425	3/8"	120/1	1	20	23x13x11	20 lbs.	1, 2

1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION

1. WITH BACKDRAFT DAMPER 2. WITH SPEED CONTROLLER

AIR DEVICE SCHEDULE							
TAG	SERVICE	MA NUFA CTURER (OR EQUAL)	MODEL (OR EQUAL)	SIZE	COLOR / FINISH	NOTES	
S1	SUPPLY	PRICE	520	6x6	WHITE		
S2	SUPPLY	PRICE	SPD	24x24	WHITE		
S 3	SUPPLY	PRICE	520	12x6	WHITE		
S4	SUPPLY	PRICE	SDS-100	48"L (3 SLOT)	WHITE	WITH 'SDB' PLENUM BOX	
S5	SUPPLY	PRICE	SDS-100	48"L (2 SLOT)	WHITE	WITH 'SDB' PLENUM BOX	
S6	SUPPLY	PRICE	SDS-150	60"L (4 SLOT)	WHITE	WITH 'SDB' PLENUM BOX	
E1	EXHAUST	PRICE	530	AS INDICATED	WHITE		
E2	EXHAUST	PRICE	80	AS INDICATED	WHITE		
E3	EXHAUST	PRICE	630	AS INDICATED	WHITE	ALUMINUM	
T1	TRANSER	PRICE	STG	AS INDICATED	WHITE		
R1	RETURN	PRICE	530	AS INDICATED	WHITE		
R2	RETURN	PRICE	80	AS INDICATED	WHITE		
R3	RETURN	PRICE	630	AS INDICATED	WHITE	ALUMINUM	
L1	EXH / OA	POTTORFF	EFD	AS INDICATED	PRIMED	PAINT TO MATCH EXTERIOR	

DIFFUSER NECK SIZING SCHEDULE					
A IRFLOW (CFM)	NECK SIZE (in)				
0 - 120	6"				
120 - 210	8"				
210 - 325	10"				
325 - 470	12"				
470 - 640	14"				

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HVAC SCHEDULES

POWER PLAN SYMBOL LEGEND CIRCUIT WIRING DATA / PHONE JACK BOX WITH 1" CONDUIT WITH CAT-6 (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE) CIRCUIT TAG ——> PX-XX MULTIPLE CAT-6 IN SINGLE BOX IN MULTIPLE SYMBOLS SHOWN AT THE SAME LOCAITON JUNCTION BOX RECEPTACLE COAX & CAT-6 HOME RUNS (SEE BRAND REQUIREMENTS) INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX (STANDARD @ 18" AFF UNLESS NOTED OTHERWISE) WIRELESS ACCESS POINT, CEILING MOUNTED "WP" = WEATHERPROOF OUTDOOR RECEPTACLE "AW" = ABOVE WINDOW RECEPTACLE "AC" = ABOVE CEILING RECEPTACLE WIRELESS ACCESS POINT, WALL MOUNTED "IG" = ISOLATED GROUND GFCI DUPLEX CONVENIENCE RECEPTACLE FLOOR RECEPTACLE 208V RECEPTACLE FLOOR DATA QUADPLEX CONVENIENCE RECEPTACLE DISCONNECT

WITH USB-A & USB-C CHARGING PORT

FUSED DISCONNECT

POWER PLAN GENERAL NOTES:

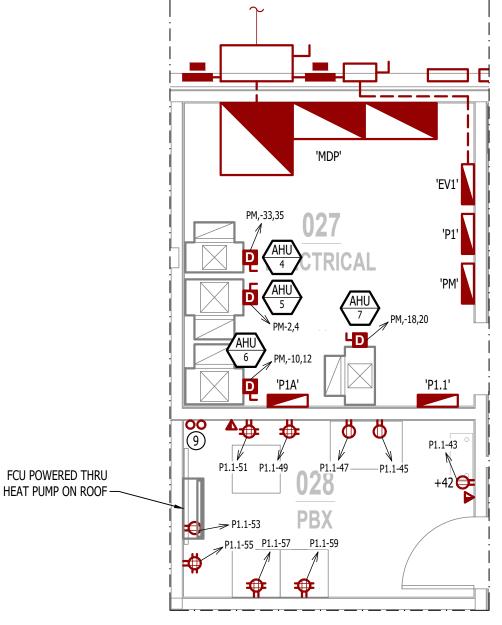
- SEE E500 & E600 SERIES SHEETS FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES. ALL TECHNOLOGY WIRING SYSTEMS MUST BE SUPPLIED & INSTALLED BY A SUPPLIER APPROVED BY HILTON, WHO IS A PANDUIT CERTIFIED INSTALLER (PCI) PARTNER. REFER TO SECTION 2518 OF "HOME2 SUITES BRAND STANDARDS - UNITED STATES 2500 - DESIGN, CONSTRUCTION & RENOVATION STANDARD" FOR FURTHER
- VERIFY ALL POWER/DATA LOCATION SHOWN WITH BRAND PRIOR TO ROUGH-IN.
- 4. REFER TO BRAND PROTOTYPE DRAWINGS FOR DIMENSIONED RECEPTACLE LOCATIONS.

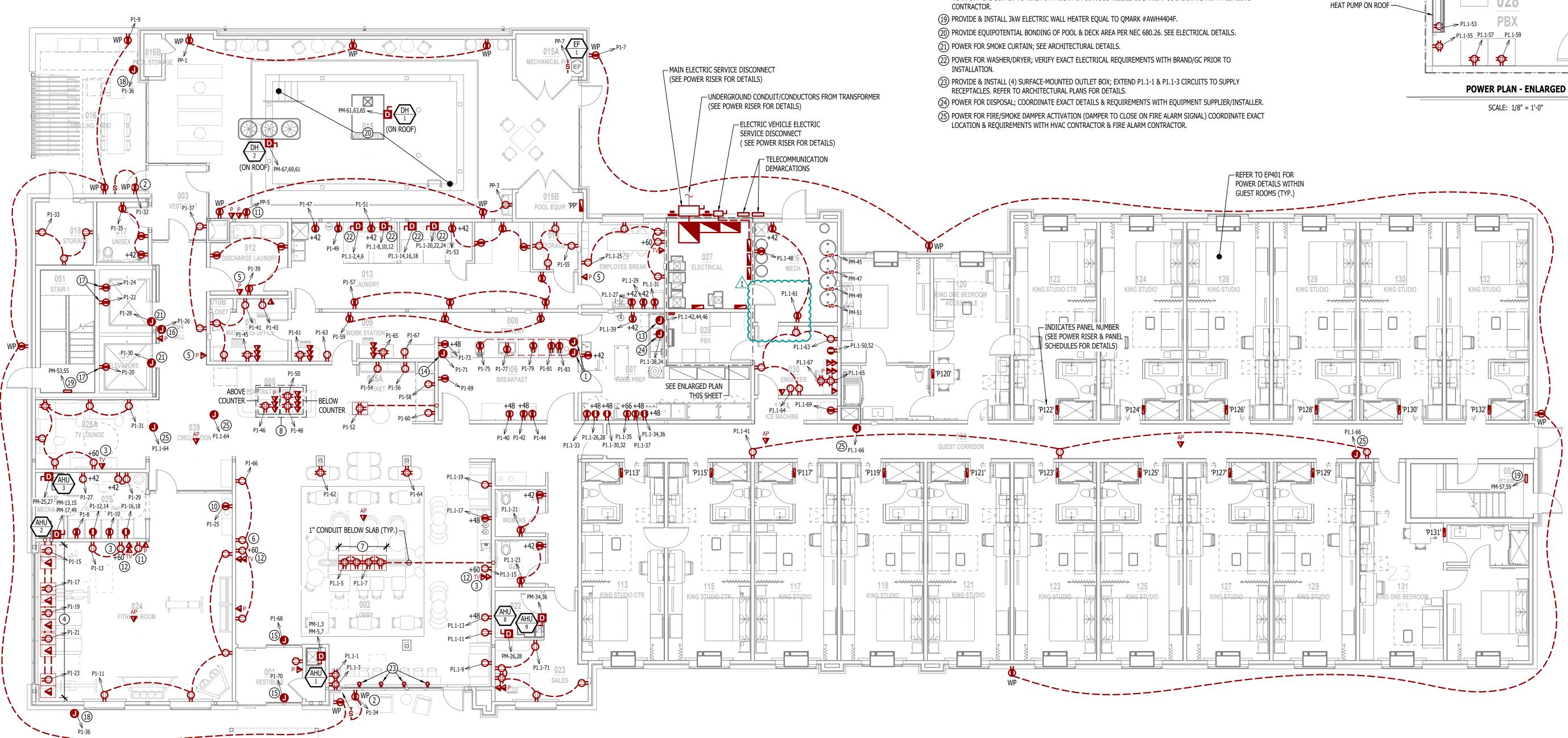
POWER PLAN KEY NOTES:

- (1) STUB OUT, TO FIXTURE MOUNTED OUTLET (BY ELECTRICAL CONTRACTOR). COORDINATE EXACT SPECIFICATIONS & REQUIREMENTS WITH DISPLAY SHOWCASE SUPPLIER/INSTALLER.
- (2) POWER FOR PLUG-IN STRING LIGHTS. COORDINATE EXACT LOCATION WITH LIGHTING SUPPLIER/INSTALLER.
- (3) COORDINATE OUTLET LOCATION WITH MEDIA MOUNT (SEE ARCHITECTURAL PLANS).
- (4) FLUSH MOUNTED FLOOR OUTLET BOX WITH BRUSHED ALUMINUM COVER PLATE. COORDINATE LOCATION WITH FITNESS EQUIPMENT SUPPLIER.

(5) HOUSE PHONE LOCATION.

- (6) PROVIDE DUPLEX OUTLET AT GALLERY WALL FOR CLOCK, COORDINATE EXACT LOCATION WITH ARCHITECTURAL
- (7) FLUSH MOUNTED FLOOR OUTLET BOX WITH BRUSHED ALUMINUM COVER PLATE. COORDINATE FLOOR RECEPTACLE LOCATION WITH FURNITURE PLACEMENT.
- (8) POWER, DATA, PHONE, ETC. LOCATED WITHIN MILLWORK OF WELCOME DESK. COORDINATE EXACT LOCATION/REQUIREMENTS WITH WELCOME DESK SUPPLIER/INSTALLER. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DETAIL/REQUIREMENTS. PROVIDE CONDUIT BACK TO COMPUTER/COMMUNICATIONS FOR ALL SYSTEMS. POWER RECEPTACLES BELOW THE DESK MUST NOT BE ON A SEPARATE DEDICATED GROUNDED CIRCUIT FROM THE OUTLETS ABOVE THE DESK.
- (9) (2) 3" CONDUIT FROM TELECOMMUNICATION DEMARCATIONS INTO PBX CLOSET.
- (10) COORDINATE LOCATION OF POWER FOR HYDRATION STATION TO BE CONCEALED BY MILLWORK.
- (11) POWER FOR HOUSE TELEPHONE AND/OR EMERGENCY TELEPHONE. THE EMERGENCY TELEPHONE MUST BE MOUNTED 48"/1.2 M MAXIMUM ABOVE THE FINISHED FLOOR. THE TELEPHONE MUST HAVE A RED CASING. THE TELEPHONE MUST ALLOW DIRECT CALLS TO OUTSIDE EMERGENCY RESPONDERS AND TO A LOCATION THAT IS MANNED 24-HOURS A DAY UNLESS THE LOCAL JURISDICTION REQUIRES OTHERWISE. THE TELEPHONE MUST
- COMPLY WITH BRAND STANDARD 702.01.A EMERGENCY SERVICES. (12) PROVIDE COAX & CAT6 HOME-RUNS AT ALL PUBLIC & BACK-OF-HOUSE TELEVISIONS
- (13) POWER FOR DISHWAHSER; COORDINATE EXACT DETAILS & REQUIREMENTS WITH EQUIPMENT SUPPLIER/INSTALLER.
- (14) POWER FOR TAPE LIGHTS @ SERVERY DRAWER(S) IN CASEWORK. COORDINATE EXACT LOCATION/REQUIREMENTS WITH CASEWORK SUPPLIER/INSTALLER.
- (15) POWER FOR DOOR OPERATOR; COORDINATE EXACT LOCATION & REQUIREMENTS WITH DOOR HARDWARE SUPPLIER/INSTALLER.
- (16) POWER/DATA/PHONE FOR RATH 2-WAY ELEVATOR COMMUNICATION SYSTEM.
- (17) RECEPTACLE(S) IN ELEVATOR PIT; REFER TO ELEVATOR PIT DETAIL.
- (18) POWER FOR 120V SOLENOID/GAS VALVE. WIRE THRU 'LCP1' RELAY #8. INCLUDE EMERGENCY STOP PUSH-BUTTON EQUAL TO STI-USA #SS2079ES-EN TO OPEN CIRCUIT TO ELECTRICALLY HELD GAS SOLENOID TO TURN OFF GAS SUPPLY TO FIRE-PIT. MOUNT IN OBVIOUS VISIBLE LOCATION. COORDINATE WITH PLUMBING CONTRACTOR.



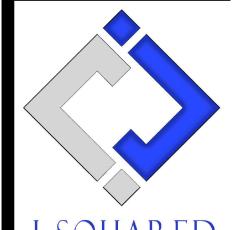


POWER PLAN - FIRST FLOOR

SCALE: 1/8" = 1'-0"



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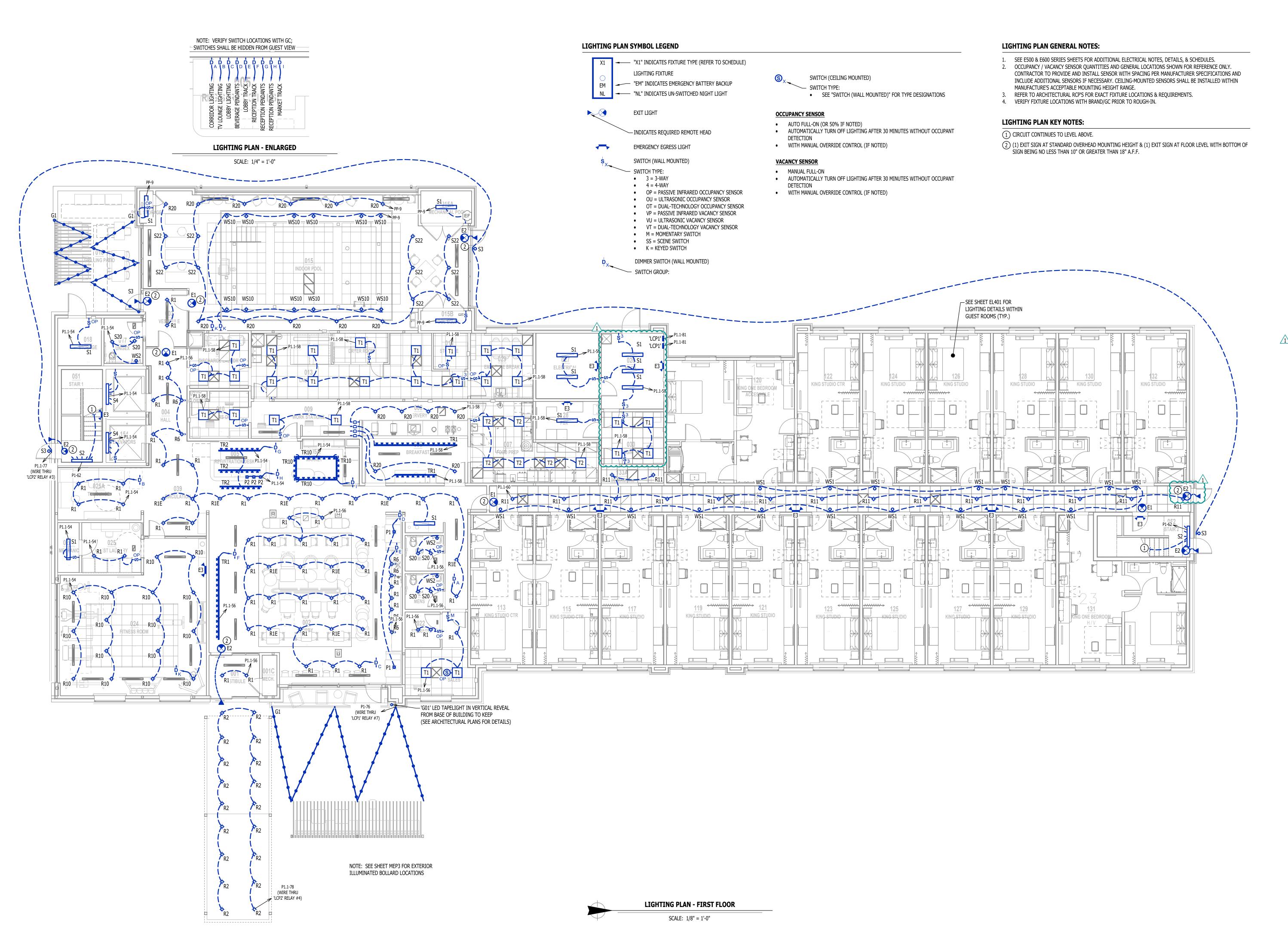
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POWER PLAN - FIRST FLOOR

EP101





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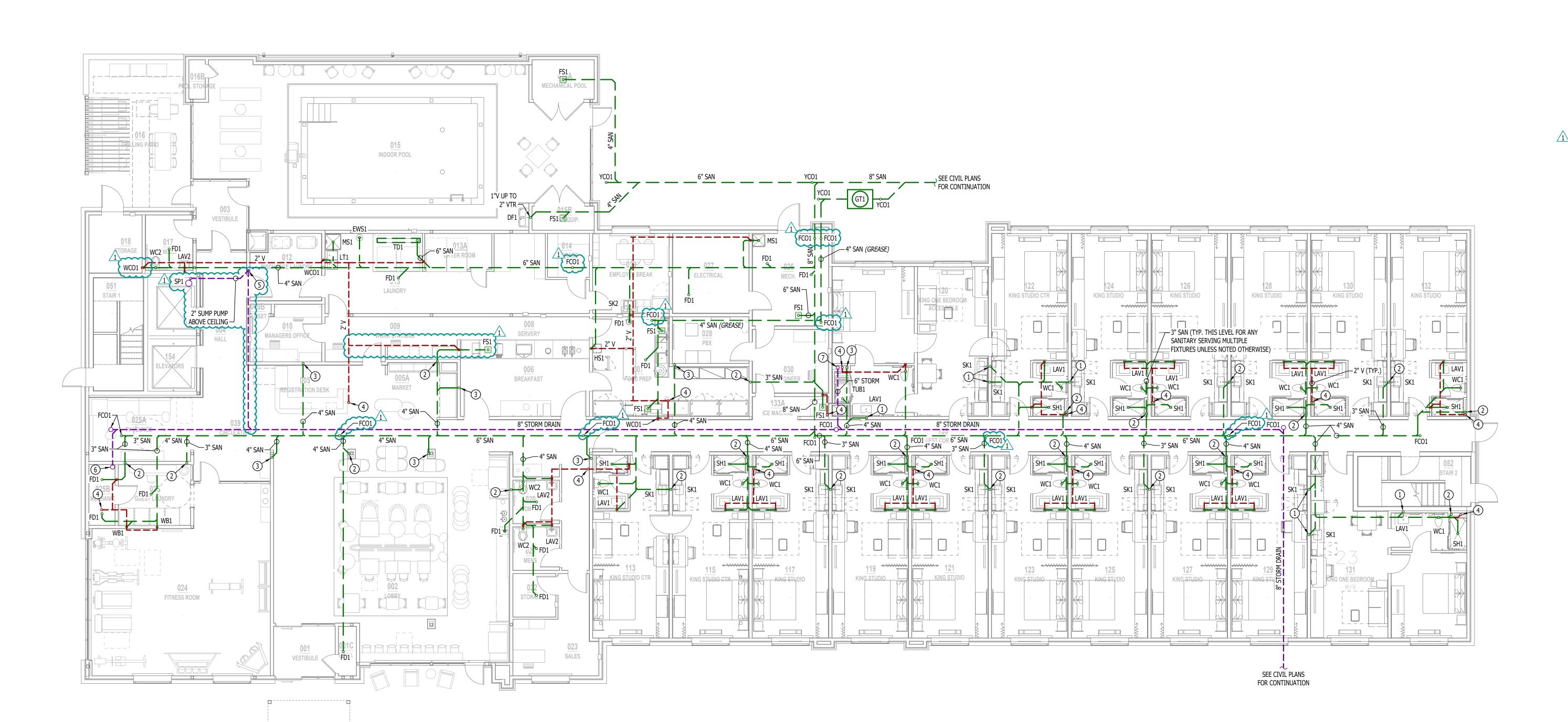
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LIGHTING PLAN -FIRST FLOOR

SHEET NUM

EL101

(7) 6" PRIMARY STORM DRAIN DOWN FROM ROOF.







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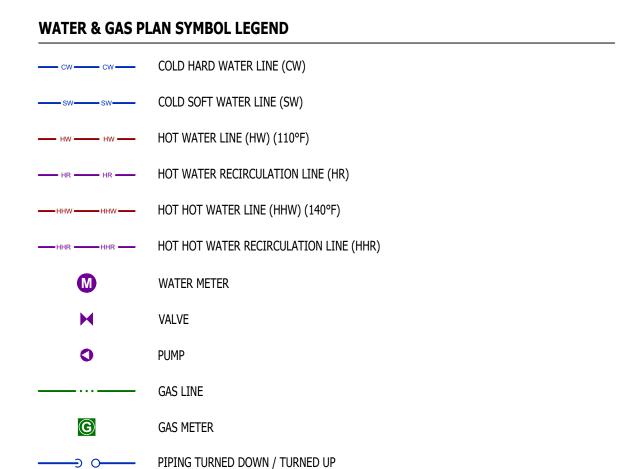
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SANITARY SEWER PLAN
- FIRST FLOOR

SHEET NUMBER

PS101



STORAGE

SALES

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BBQ GRILL

FITNESS ROOM

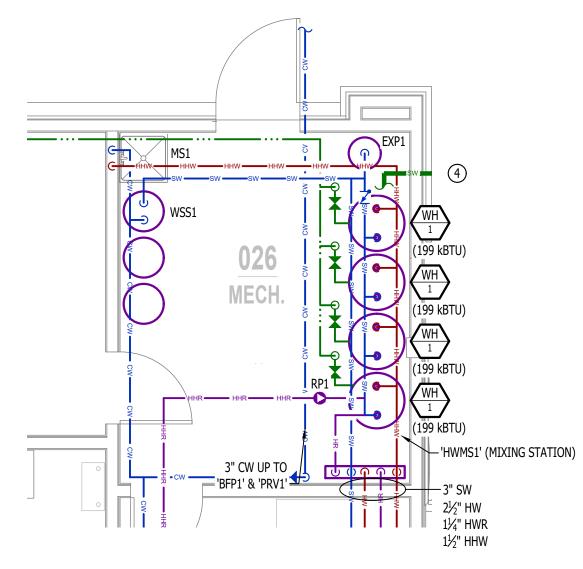
TO FIRE PIT(S) (200 kBTU)

WATER & GAS PLAN GENERAL NOTES:

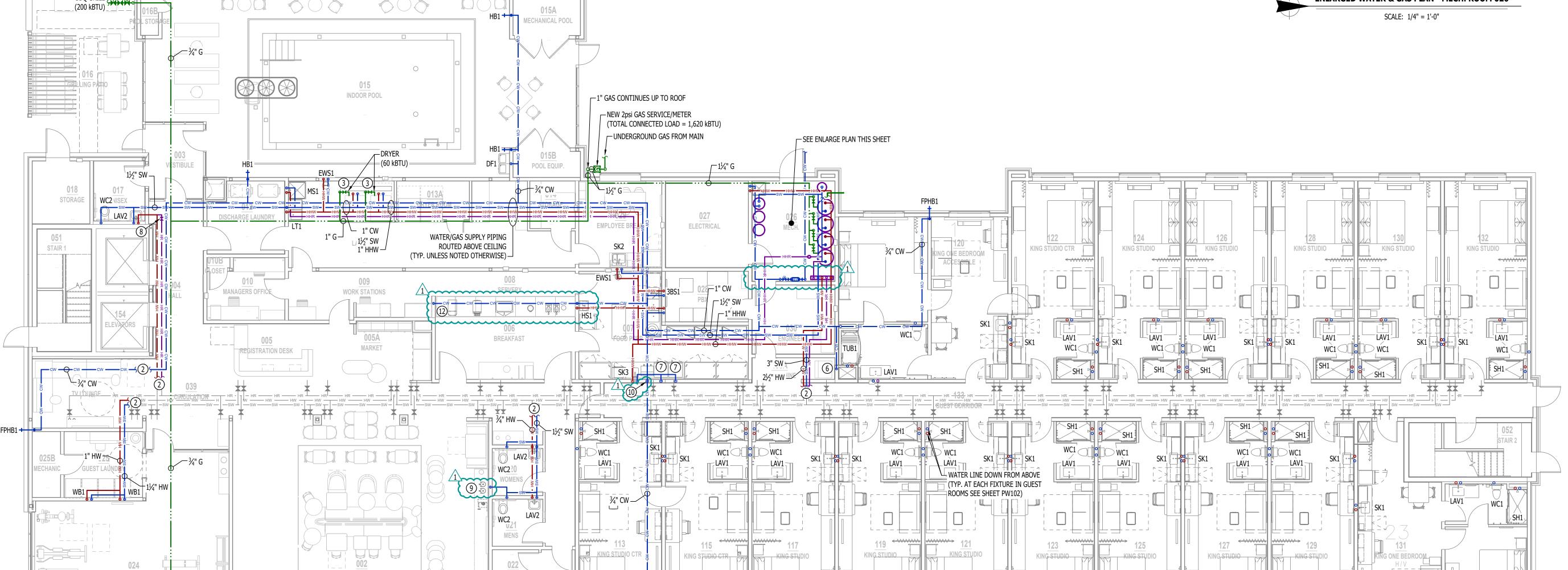
1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

WATER & GAS PLAN KEY NOTES:

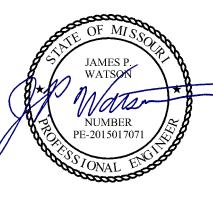
- (1) CW UP TO ICE MAKER ON SECOND THRU FOURTH FLOORS.
- (2) SEE SHEET PW102 FOR CONTINUATION
- (3) 2 PSI TO 11" W.C. VENTLESS REGULATOR AT APPLIANCE CONNECTION.
- (4) WATER HEATER VENT & COMBUSTION AIR TO CONCENTRIC VENT THRU WALL; INSTALL PER MANUFACTURER
- (5) PROVIDE & INSTALL 120V ELECTRICALLY HELD (NORMALLY CLOSED) SOLENOID ON GAS LINE FOR EMERGENCY SHUT-OFF; COORDINATE WITH ELECTRICAL CONTRACTOR.
- 6) $\frac{1}{2}$ " CW to ICE Maker with 'BFP3' a equipment connection.
- $7) \frac{1}{2}$ " CW TO CONVECTION OVEN WITH 'BFP3' A EQUIPMENT CONNECTION.
- (8) PROVIDE & INSTALL AUTOMATIC FLOW BALANCING VALVE EQUAL TO WATTS #LFIDROSET IN HWR LINE IN ACCESSIBLE LOCATION IN CORRIDOR; SET FLOW TO 0.5 GPM.
- (9) CW STUBBED DOWN TO HYDRATION STATION. COORDINATE EXACT LOCATION & REQUIREMENTS WITH OWNER
- (10) $\frac{1}{2}$ " CW to coffee maker with 'BFP3' a equipment connection.
- 11) $\frac{3}{4}$ " cw underground to yard hydrant at dumpster enclosure (see sheet MEP2).
- $12)\frac{1}{2}$ " CW DOWN IN WALL TO 'BFP3' IN CASEWORK FOR JUICE MACHINE CONNECTION. COORDINATE WITH
- CASEWORK SUPPLIER/INSTALLER.











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WATER & GAS PLAN -FIRST FLOOR

PW101

WATER & GAS PLAN SYMBOL LEGEND

——sw——sw—— COLD SOFT WATER LINE

— HR — HR — HOT WATER RECIRCULATION LINE

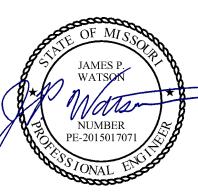
PIPING TURNED DOWN / TURNED UP

— HW — HW — HOT WATER LINE

WATER & GAS PLAN GENERAL NOTES:

1. SEE SHEET P501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.





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SHEET TITLE

WATER & GAS PLAN -FOURTH FLOOR

SHEET NUMBER

PW104

PLUMBING CONNECTION SIZING SCHEDULE						
FIXTURE		SANITAR	RY PIPING	SUPPLY PIPING		
ТҮРЕ	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION	
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-	
FLOOR DRAIN	FD	3"	2"	1	-	
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"	
HOSE BIBB	НВ	-	-	3/4"	1	
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"	
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"	
ICE MAKER OUTLET BOX	REF	-	-	1/2"	-	
SHOWER	SH	3"	1-1/2"	1/2"	1/2"	
URINAL	UR	2"	1-1/4"	3/4"	-	
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-	
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-	

1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS

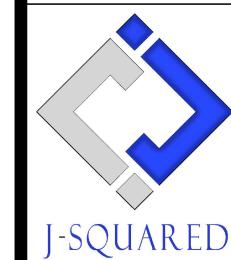
PLUMBING FIXTURE SCHEDULE								
TAG	DESCRIPTION	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	NOTES				
3BS1	THREE BASIN SINK	-	-	PROVIDED WITH FOOD SERVICE EQUIPMENT PACKAGE; PLUMBING CONTRACTOR TO INSTALL				
BFP1	BACKFLOW PREVENTER	WILKINS	375	RPZ - 3"				
BFP2	BACKFLOW PREVENTER	ZURN	950XLT	2" DOUBLE-CHECK FOR IRRIGATION				
BFP3	BACKFLOW PREVENTER	WATTS	LF9D	ICE MACHINE DUAL CHECK				
DF1	DRINKING FOUNTAIN (HIGH/LOW)	ELKAY	EZSTL8LC					
DN1	DOWNSPOUT NOZZLE	ZURN	Z199					
EWS1	EMERGENCY EYEWASH STATION	GUARDIAN	G1814	WITH G6020 THERMOSTATIC MIXING VALVE				
EXP1	EXPANSION TANK	WATTS	DETA-100					
FCO1	FLOOR CLEANOUT	ZURN	1400					
FD1	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL				
FPHB1	FROST PROOF HOSE BIB	WOODFORD	MODEL 67					
FS1	FLOOR SINK	ZURN	FD2370	WITH DOME STRAINER & HALF-GRATE				
GT1	GREASE TRAP	SCHIER	GB-75					
HB1	HOSE BIBB - INTERIOR	WOODFORD	24P - 3/4"	WITH LOCKING KEY				
HD1	HUB DRAIN	-	-	WITH Z1072 TRAP SEAL				
HS1	HAND SINK	REGENCY	600HS17					
HWMS1	HOT WATER MIXING STATION	WATTS	INTELLISTATION LFIS 200	2.5" WITH 'RP1' RECIRCULATION PUMP				
LAV1	LAVATORY (UNDERMOUNT W/ MANUAL FAUCET)	AMERICAN STANDARD	0614.000	WITH ZURN Z81104-XL FAUCET, 1/4 TURN STOPS, AND BRAIDED STAINLESS STEEL SUPPLIES				
LAV2	LAVATORY (WALL HUNG W/BATTERY SENSOR FAUCET)	AMERICAN STANDARD	0355.012	WITH ZURN Z6915-XL-L-TMV-1 FAUCET, 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, AND TRUBRO LAV GUARD 2				
LT1	LAUNDRY TUB	SWAN	MF-2F	24x46 DOUBLE BOWL; WITH ZURN Z812J4-XL FAUCET				
MS1	MOP SINK	FIAT	MSB2424	WITH ZURN Z843M1 FAUCET WITH WALL HOOK				
PRV1	PRESSURE REDUCING VALVE	WATTS	LFF127W					
RH1	ROOF HYDRANT	WOODFORD	SRH-MS					
RP1	HOT WATER RECIRCULATION PUMP	GRUNDFOS	MAGNA 1	~16 GPM @ 20' TDH				
SH1	GUESTROOM SHOWER - 60"x 34"	STERLING	72331100-0	VIKRELL SHOWER PAN WITH SHOWER DRAIN, MOEN POSI-TEMP MIXING VALVE & TRIM KIT				
SK1	GUESTROOM SINK - 25"x 19"	ELKAY	ELUH231710	WITH TWO HANDLED ZURN Z871C4-XL FAUCET				
SK2	DOUBLE COMPARTMENT SINK (33x22x7)	ELKAY	CR3322	WITH TWO HANDLED ZURN Z871C4-XL FAUCET				
SK3	SINGLE COMPARTMENT SINK - FOOD PREP AREA	-	-	PROVIDED WITH FOOD SERVICE EQUIPMENT PACKAGE; PLUMBING CONTRACTOR TO INSTALL				
SP1	SUMP PUMP	ZOELLER	153-0002	120V, 1/2 HP				
TD1	TRENCH DRAIN	JAY R SMITH	SQ-TD-0885	FABRICATED 11-GAUGE 304 STAINLESS STEEL LINT TROUGH WITH LOOSE SET SS LIGHT DUTY BAR GRATE WITH 1" SPACING BETWEEN BARS; REMOVABLE FILTER SCREENS WITH 3/8" PERFORATED HOLES & 4" BOTTOM OUTLET WITH SS MESH COVER DOME BOTTOM STRAINER				
TUB1	ADA TRANSFER TUB - 60"x 30"	STERLING	71240XXX-0	VIKRELL TUB/SHOWER SURROUND WITH SEAT, GRAB BARS, MOEN POSI-TEMP MIXING VALVE & TRIM KIT, HANDHELD-SHOWER ASSEMBLY				
WB1	WASHER BOX	OATEY	38529	WASHER BOX W/ 1/4 TURN VALVES				
WC1	WATER CLOSET - TANK	AMERICAN STANDARD	215AA.004	WITH CHURCH 7200SLEC SEAT AND COVER, STAINLESS BRAIDED SUPPLY, AND 1/4 TURN SHUT-OFF.				
WC2	WATER CLOSET - ADA HEIGHT - BATTERY AUTO FLUSH VALVE	AMERICAN STANDARD	3043.001	WITH ZURN ZER6000AV-IS-WS1-CCP BATTERY FLUSH VALVE (1.6 GPM/FLUSH) AND CHURCH 9500SSCT SELF SUSTAINING SEAT				
WCO1	WALL CLEAN OUT	-	-					
WH1	WATER HEATER - GAS	AO SMITH	BTH-199	199kBTU, 100 GALLON, WITH 'EXP1'				
WSS1	WATER SOFTENER SYSTEM	CULLIGAN	CTM-210	TRIPLEX, 3", 155 GPM CONTINOUS, 217 GPM PEAK				
YCO1	YARD CLEAN OUT	ZURN	Z1400					
YH1	YARD HYDRANT	WOODFORD	Y34					
			, , , , , , , , , , , , , , , , , , , 					

NOTES:

- 1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION.
- 2. VERIFY FIXTURE FINISHES WITH OWNER / ARCHITECT.
- 3. SUBMIT ALL PLUMBING FIXTURES FOR BRAND APPROVAL PRIOR TO PURCHASE & INSTALLATION



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PLUMBING SCHEDULES

SHEET NUM

P601